

F&B Project 308147

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

308147

SAMPLE CHAIN OF CUSTODY

08/08/23

Page # 1 of 1

Report To JEANETTE MANSILLA

Company ANCHOR DET

Address 1201 32nd Ave #2602

City, State, ZIP Seattle, WA 98101

Phone 2062875130 Email LAIBONIA.ARTHE@ANCHORDET.COM

SAMPLERS (signature) [Signature]

PROJECT NAME & ADDRESS  
CHADSON CLEANERS  
4701 Greenwood Ave NE, Seattle

NOTES:  
See SQ APP

PO #  
217250-0101

INVOICE TO  
LAB DATA ATTACHED

INVOICE TO  
ANCHOR DET

TURNAROUND TIME  
Standard  
RUSH  
Rush charges authorized by:

SAMPLE DISPOSAL  
Default: Clean following final report delivery  
Hold (Fee may apply):

SAMPLE INFORMATION

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
CC-AA-01-20230808	D1	25546 47825	0352	IA / SG	8-8-23	31.0	772	6.0	1572	X					Found Air
CC-SS-01-20230808	D2	9882	66	IA / SG		30.0	940	4.0	946	X					Sub-Sets
CC-AA-01-20230808	D3	16565	0347	IA / SG		32.0	630	5.0	1455	X					AM Brent Air
CC-AA-02-20230808	D4	75337	06608	IA / SG		30.0	735	6.0	635	X					Found Air
CC-SS-02-20230808	D5	8209	70	IA / SG		29.0	1107	4.0	1112	X					Sub-Sets
CC-AA-038-20230808	D6	20544	06606	IA / SG		31.0	762	5.0	1502	X					Found Air
CC-SS-038-20230808	D7	8537	64	IA / SG		29.0	827	3.0	831	X					Sub-Sets
CC-AA-04-20230808	D8	20549	06601	IA / SG		30.0	900	7.0	1409	X					Found Air

ANALYSIS REQUESTED

Friedman & Bruya, Inc.

5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COCTO-15.DOC

SIGNATURE

Relinquished by: [Signature]

Received by: [Signature]

PRINT NAME

STEPHEN SMETH

SOE MATHANAND

COMPANY

ANCHOR DET

FBI

DATE

8-8-23

8/8/23

TIME

1745

1745

Samples received at 24 oc

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 308147 CLIENT ACO INITIALS/ DATE: 08/08/23 JEM

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

Cooler/Sample temperature 24 °C Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? [ ] YES [X] NO

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

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

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

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

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

- Sample ID's [X] Yes [ ] No # of Containers [X] Yes [ ] No
Date Sampled [X] Yes [ ] No Relinquished [X] Yes [ ] No
Time Sampled [X] Yes [ ] No Requested analysis [X] Yes [ ] No

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

Were appropriate sample containers used? [X] YES [ ] NO [ ] Unknown

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

Are samples requiring no headspace, headspace free? [X] NA [ ] YES [ ] NO

Air Samples: Were any additional canisters/tubes received? [ ] NA [X] YES [ ] NO

If Yes: Number of unused TO15 canisters 1 Number of unused TO17 tubes 4
claim of faulty threads works ok on Flow controller J B 8/9

Explain "no" items from above (use the back if needed)

# Laboratory Worksheets

**TO-15 EXTRACTION WORKSHEET (AIR)**

HT \_\_\_\_\_

Project #: 308147  
 Client: Anchor  
 QC Batch ID: 03-1809  
 Samples checked against COC B

Date Received: 8/9/23  
 Date Extracted: 8/9/23  
 Date Analyzed: \_\_\_\_\_  
 GCMS  7  8, Seq. Date \_\_\_\_\_

<b>Sample Type:</b> <input type="checkbox"/> Soil Gas <input type="checkbox"/> Indoor Air <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> TO-15 Full List (sDF=3.3) <input type="checkbox"/> BTEX (sDF=33) <input type="checkbox"/> cVOCs (sDF=10) <input type="checkbox"/> Naphthalene (sDF=3.3) <input type="checkbox"/> APH (sDF=39) <input type="checkbox"/> EDB,EDC,Hex,MTBE (sDF=10) <input checked="" type="checkbox"/> PCE+Daughters (sDF=10) <input type="checkbox"/> Other _____ <small>sDF = Acceptable Dilution Factor For Soil Gas</small> <small>iDF = Acceptable Dilution Factor For Indoor Air</small>	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/m3 <input type="checkbox"/> Other _____ <input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Screen Samples First
Due Date: <u>8/23</u>		

Sample ID	Canister ID	Initial Vacuum (Pi)	Final Vacuum (Pf)	Initial Dilution Factor	Volume Injected (cc)	Final Dilution Factor	Observations
01	20546				250	F.5	
03	18565						
04	35337						
06	20544						
08	20549						
B	8/9/23	→					

Initials \_\_\_\_\_

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	NA			
Other							
Internal Standard(s)/ Surrogate(s)	✓	50 cc	50 ppbv	TO-15 IS/Surr Mix	70-1A	ks	8/9
Other							

Project Leader Initials: MG      NOTES: Tier IV

Calculated by MO 8/10/23      Reviewed by YA 08/14/23

**TO-15 EXTRACTION WORKSHEET (AIR)**

Project #: 308147  
 Client: Anchor  
 QC Batch ID: 03-1809  
 Samples checked against COC B+

Date Received: 8/9/23 HT \_\_\_\_\_  
 Date Extracted: 8/9/23  
 Date Analyzed: \_\_\_\_\_  
 GCMS  7  8, Seq. Date \_\_\_\_\_

Sample Type: <input checked="" type="checkbox"/> Soil Gas <input type="checkbox"/> Indoor Air <input type="checkbox"/> Other _____	Requested Analytes: <input type="checkbox"/> TO-15 Full List (sDF=3.3) <input type="checkbox"/> BTEX (sDF=33) <input type="checkbox"/> cVOCs (sDF=10) <input type="checkbox"/> Naphthalene (sDF=3.3) <input type="checkbox"/> APH (sDF=39) <input type="checkbox"/> EDB,EDC,Hex,MTBE (sDF=10) <input checked="" type="checkbox"/> PCE+Daughters (sDF=10) <input type="checkbox"/> Other _____	Reporting Units: <input checked="" type="checkbox"/> µg/m <sup>3</sup> <input type="checkbox"/> Other _____ <input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input checked="" type="checkbox"/> Screen Samples First
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Due Date: 8/23  
sDF = Acceptable Dilution Factor For Soil Gas  
 iDF = Acceptable Dilution Factor For Indoor Air

Sample ID	Canister ID	Initial Vacuum (Pi)	Final Vacuum (Pf)	Initial Dilution Factor	Volume Injected (cc)	Final Dilution Factor	Observations
02	9882	13.49	20.41	1.51	75	1/5.0	
05	8209	12.71	20.28	1.60	75	1/5.3	
07	8537	13.14	20.21	1.54	75	1/5.1	
<u>13</u>	<u>8/9/23</u>						

Initials \_\_\_\_\_

✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent	NA	NA	NA			
Other						
Internal Standard(s)/ Surrogate(s)	50 cc	50 ppbv	TO-15 IS/Surr Mix	70-1A	VS	8/9
Other						

Project Leader Initials: ME NOTES: Screened on 8/9-24  
Tier IV

Calculated by MD 8/10/23 Reviewed by YA 08/14/23

# BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 08-09-23

Technician: B-t

QA Batch: **03-1809**

pH Lot: \_\_\_\_\_

**Matrix**

- Soil
- Water
- Product/Wipe
- Air
- Other \_\_\_\_\_

**Solvent**

- Methylene Chloride
- Acetone
- Methanol
- Hexane
- DI Water
- Other \_\_\_\_\_

Solvent Lot # \_\_\_\_\_

**Analysis**

- Diesel
- Gas/BTEX
- HCID
- TO15 / APH + GX
- 8260
- 8270
- Phenols
- TO17
- PCB
- Pest / Tox
- 1,4-Dioxane
- Other \_\_\_\_\_

**Clean Up:**

- Silica
- Other
- Na2SO3
- Filtration
- TBA
- H2SO4

Sample ID	pH Waters only	Sample Weight/Volume	Extraction Solvent Volume	Final Volume	Dilutions		Clean Up (Circle)			Observations
					Amt. Extract	Amt. Solvent	Na2SO3	TBA	H2SO4	
14B										
LCS (TO15)										
LCS (APH)										
LCS (GX)										
308149-01										
308149-01 dup										
<u>1/2</u>	<u>8/9/23</u>									
Initials										

**Samples in Batch**

308147-01	308147-05	308149-01		
-02	-06	308150-01		
-03	-07	1 -02		
-04	-08			

**Matrix Spikes:**

25 cc  $\mu$ L of 25 ppb ppm of TO15 cc/LCS  
 Amount Concentration Analytes and Solvent

Lot # 69-157A Date/Initials 08/09/23 BL

**Matrix Spikes:**

150 cc  $\mu$ L of 112.5 ug/L ppm of APH LCS  
 Amount Concentration Analytes and Solvent

Lot # 69-167B

**Matrix Spikes:**

20 cc  $\mu$ L of 1000 ppb ppm of GX cc/LCS  
 Amount Concentration Analytes and Solvent

Lot # 70-16B

**Surrogates:**

50 cc  $\mu$ L of 50 ppb ppm of TO15 SURR  
 Amount Concentration Analytes and Solvent

Lot # 70-1A

**Internal Standards:**

50 cc  $\mu$ L of 50 ppb ppm of TO15 IS/BFB  
 Amount Concentration Analytes and Solvent

Lot # 1

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



**EPA TO-15**  
**MDLs**

**Reported MDL Data and Calculations**

**Converted from Reported Air MDLs ppbv**

Analysis: TO-15  
 Matrix: Air  
 Instrument ID: GCMS #7  
 Reporting Units: ug/m3

Standard(s) spiked:  
 Volume spiked:  
 Date(s) Extracted: 5/31/2022; 6/1/2022; 8/31/2022; 9/1/2022; 1/30/2023; 2/1/2023; 2/2/2023; 2/3/2023  
 Date(s) Analyzed: 6/2/2022; 6/3/2022; 9/1/2022; 9/2/2022; 1/31/2023; 2/2/2023; 2/3/2023; 2/4/2023  
 Date Calculated: 6/8/2022; 6/8/2022; 9/8/2022; 1/31/2023; 2/2/2023; 2/9/2023; 3/2/2023  
 Calculation Analyst: BAT; JLM

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.
Propene	0.1992	0.3984	0.9960	0.0664	0.1712	0.1721	100
Dichlorodifluoromethane	0.1402	0.2804	0.7010	0.0468	0.4673	0.4945	95
Chloromethane	0.0720	0.1441	0.3602	0.0240	0.2210	0.2065	107
F-114	0.3214	0.6427	1.6068	0.1072	0.6964	0.6991	100
Vinyl chloride	0.0116	0.0232	0.0579	0.0039	0.0550	0.0511	108
1,3-Butadiene	0.0240	0.0480	0.1199	0.0080	0.0470	0.0442	106
Butane	0.4766	0.9533	2.3832	0.1590	5.1761	4.7542	109
Bromomethane	1.2733	2.5466	6.3666	0.4247	8.8669	7.7661	114
Chloroethane	0.0378	0.0756	0.1891	0.0126	0.2520	0.2638	96
Vinyl Bromide	0.0343	0.0686	0.1715	0.0114	0.4008	0.4375	92
Ethanol	1.3042	2.6083	6.5209	0.4350	3.7054	3.7685	98
Acrolein	0.1011	0.2022	0.5054	0.0337	0.1184	0.1146	103
Pentane	1.1097	2.2194	5.5484	0.3701	6.1615	5.9018	104
Trichlorofluoromethane	0.2069	0.4137	1.0344	0.0690	0.4979	0.5618	89
Acetone	1.3289	2.6578	6.6445	0.4433	5.1708	4.7509	109
2-Propanol	0.7099	1.4197	3.5494	0.2368	4.9245	4.9162	100
1,1-Dichloroethene	0.0444	0.0889	0.2222	0.0148	0.0857	0.0793	108
trans-1,2-Dichloroethene	0.0514	0.1028	0.2570	0.0171	0.0917	0.0793	116
Methylene chloride	1.2549	2.5097	6.2743	0.4186	7.3489	6.9472	106
t-Butyl alcohol (TBA)	0.3265	0.6530	1.6325	0.1089	6.3286	6.0630	104
3-Chloropropene	0.6642	1.3284	3.3211	0.2216	6.4424	6.2601	103
CFC-113	0.2832	0.5664	1.4160	0.0945	0.8181	0.7664	107
Carbon disulfide	0.9593	1.9186	4.7964	0.3200	6.7479	6.2282	108
Methyl t-butyl ether (...)	0.6951	1.3903	3.4757	0.2319	7.5000	7.2106	104
Vinyl acetate	0.9106	1.8213	4.5531	0.3037	7.1381	7.0421	101
1,1-Dichloroethane	0.0243	0.0485	0.1213	0.0081	0.0870	0.0809	108
cis-1,2-Dichloroethene	0.0200	0.0401	0.1001	0.0067	0.0857	0.0793	108
Hexane	0.9218	1.8435	4.6088	0.3075	7.1579	7.0495	102
Chloroform	0.0375	0.0749	0.1874	0.0125	0.1007	0.0977	103
Ethyl acetate	1.2747	2.5494	6.3734	0.4252	7.2749	7.2074	101
Tetrahydrofuran	0.1496	0.2993	0.7482	0.0499	0.2776	0.2949	94
2-Butanone (MEK)	1.0642	2.1284	5.3211	0.3550	6.5633	5.8986	111
1,2-Dichloroethane (EDC)	0.0243	0.0485	0.1213	0.0081	0.0809	0.0809	100
1,1,1-Trichloroethane	0.0426	0.0852	0.2130	0.0142	0.1187	0.1091	109
Carbon tetrachloride	0.0403	0.0807	0.2016	0.0135	0.1353	0.1258	108
Benzene	0.0382	0.0765	0.1911	0.0128	0.0855	0.0639	134
Cyclohexane	0.7601	1.5203	3.8006	0.2535	7.1721	6.8843	104
1,2-Dichloropropane	0.0863	0.1726	0.4314	0.0288	0.4517	0.4621	98
1,4-Dioxane	0.0606	0.1211	0.3028	0.0202	0.3509	0.3604	97
2,2,4-Trimethylpentane	0.6582	1.3164	3.2910	0.2195	9.5933	9.3440	103
Methyl Methacrylate	1.2679	2.5358	6.3396	0.4229	8.4232	8.1898	103
Heptane	0.5954	1.1909	2.9772	0.1986	8.4810	8.1971	103
Bromodichloromethane	0.0635	0.1271	0.3176	0.0212	0.1407	0.1340	105
Trichloroethene	0.0509	0.1018	0.2545	0.0170	0.1162	0.1075	108
cis-1,3-Dichloropropene	0.1458	0.2916	0.7289	0.0486	0.4754	0.4539	105
4-Methyl-2-pentanone	2.2119	4.4238	11.0595	0.7378	8.8418	8.1930	108
trans-1,3-Dichloropropene	0.1048	0.2095	0.5238	0.0349	0.4488	0.4539	99
Toluene	0.0945	0.1890	0.4726	0.0315	0.3792	0.3769	101
1,1,2-Trichloroethane	0.0466	0.0933	0.2331	0.0156	0.1207	0.1091	111
2-Hexanone	2.3092	4.6184	11.5459	0.7702	8.2883	8.1930	101
Tetrachloroethene	0.1822	0.3643	0.9109	0.0608	0.7028	0.6782	104
Dibromochloromethane	0.0759	0.1519	0.3796	0.0253	0.1757	0.1704	103
1,2-Dibromoethane (EDB)	0.0583	0.1166	0.2916	0.0195	0.1700	0.1537	111
Chlorobenzene	0.1096	0.2192	0.5481	0.0366	0.4776	0.4604	104
Ethylbenzene	0.0462	0.0923	0.2308	0.0154	0.3865	0.4342	89
1,1,2,2-Tetrachloroethane	0.0600	0.1200	0.3000	0.0200	0.1459	0.1373	106
Nonane	0.7575	1.5150	3.7875	0.2527	10.3474	10.4916	99
Isopropylbenzene	2.0458	4.0916	10.2290	0.6824	10.7483	9.8315	109
2-Chlorotoluene	1.1881	2.3763	5.9406	0.3963	11.2397	10.3550	109
Propylbenzene	0.9155	1.8311	4.5777	0.3054	10.6727	9.8315	109
4-Ethyltoluene	1.7847	3.5694	8.9235	0.5953	10.0724	9.8315	102
m,p-Xylene	0.1363	0.2726	0.6816	0.0455	0.7588	0.8685	87
o-Xylene	0.0576	0.1151	0.2878	0.0192	0.3772	0.4342	87
Styrene	0.2847	0.5693	1.4233	0.0950	0.4473	0.4260	105
Bromoform	0.6521	1.3042	3.2604	0.2175	1.0724	1.0337	104
Benzyl chloride	0.0319	0.0637	0.1593	0.0106	0.0919	0.1035	89
1,3,5-Trimethylbenzene	0.3462	0.6923	1.7308	0.1155	10.4583	9.8315	106
1,2,4-Trimethylbenzene	1.6437	3.2874	8.2185	0.5483	10.1695	9.8315	103
1,3-Dichlorobenzene	0.2188	0.4376	1.0940	0.0730	0.5186	0.6012	86
1,4-Dichlorobenzene	0.1458	0.2916	0.7289	0.0486	0.5148	0.6012	86
1,2-Dichlorobenzene	0.1701	0.3402	0.8506	0.0567	0.5396	0.6012	90
1,2,4-Trichlorobenzene	0.5348	1.0695	2.6738	0.1784	0.8952	0.7421	121
Naphthalene	0.0177	0.0354	0.0885	0.0059	0.0845	0.1048	81
Hexachlorobutadiene	0.0916	0.1833	0.4582	0.0306	0.2426	0.2133	114

**Reported MDL Data and Calculations**

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

Analysis: TO-15  
 Matrix: Air  
 Instrument ID: GCMS #7  
 Reporting Units: ppbv

Standard(s) spiked:  
 Volume spiked:  
 Date(s) Extracted: 5/31/2022; 6/1/2022; 8/31/2022; 9/1/2022; 1/30/2023; 2/1/2023; 2/2/2023; 2/3/2023 04/10/23, 04/11/23, 04/12/23  
 Date(s) Analyzed: 6/2/2022; 6/3/2022; 9/1/2022; 9/2/2022; 1/31/2023; 2/2/2023; 2/3/2023; 2/4/2023 04/10/23, 04/11/23, 04/12/23  
 Date Calculated: 6/8/2022; 6/8/2022; 9/8/2022; 1/31/2023; 2/2/2023; 2/9/2023; 3/2/2023 04/12/23, 04/12/23, 04/13/23  
 Calculation Analyst: BAT; JLM

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.
Propene	0.1157	0.2315	0.5787	0.0386	0.0995	0.1000	100
Dichlorodifluoromethane	0.0284	0.0567	0.1418	0.0095	0.0945	0.1000	95
Chloromethane	0.0349	0.0698	0.1744	0.0116	0.1070	0.1000	107
F-114	0.0460	0.0919	0.2299	0.0153	0.0996	0.1000	100
Vinyl chloride	0.0045	0.0091	0.0227	0.0015	0.0215	0.0200	108
1,3-Butadiene	0.0108	0.0217	0.0542	0.0036	0.0213	0.0200	106
Butane	0.2005	0.4010	1.0026	0.0669	2.1775	2.0000	109
Bromomethane	0.3279	0.6558	1.6396	0.1094	2.2835	2.0000	114
Chloroethane	0.0143	0.0287	0.0717	0.0048	0.0955	0.1000	96
Vinyl Bromide	0.0078	0.0157	0.0392	0.0026	0.0916	0.1000	92
Ethanol	0.6921	1.3843	3.4607	0.2309	1.9665	2.0000	98
Acrolein	0.0441	0.0882	0.2204	0.0147	0.0516	0.0500	103
Pentane	0.3760	0.7521	1.8802	0.1254	2.0880	2.0000	104
Trichlorofluoromethane	0.0368	0.0736	0.1841	0.0123	0.0886	0.1000	89
Acetone	0.5594	1.1189	2.7971	0.1866	2.1768	2.0000	109
2-Propanol	0.2888	0.5776	1.4440	0.0963	2.0034	2.0000	100
1,1-Dichloroethene	0.0112	0.0224	0.0561	0.0037	0.0216	0.0200	108
trans-1,2-Dichloroethene	0.0130	0.0259	0.0648	0.0043	0.0231	0.0200	116
Methylene chloride	0.3613	0.7225	1.8063	0.1205	2.1156	2.0000	106
t-Butyl alcohol (TBA)	0.1077	0.2154	0.5385	0.0359	2.0876	2.0000	104
3-Chloropropene	0.2122	0.4244	1.0610	0.0708	2.0583	2.0000	103
CFC-113	0.0370	0.0739	0.1848	0.0123	0.1068	0.1000	107
Carbon disulfide	0.3080	0.6161	1.5402	0.1027	2.1669	2.0000	108
Methyl t-butyl ether (...)	0.1928	0.3856	0.9641	0.0643	2.0803	2.0000	104
Vinyl acetate	0.2586	0.5172	1.2931	0.0863	2.0273	2.0000	101
1,1-Dichloroethane	0.0060	0.0120	0.0300	0.0020	0.0215	0.0200	108
cis-1,2-Dichloroethene	0.0051	0.0101	0.0253	0.0017	0.0216	0.0200	108
Hexane	0.2615	0.5230	1.3076	0.0872	2.0308	2.0000	102
Chloroform	0.0077	0.0153	0.0384	0.0026	0.0206	0.0200	103
Ethyl acetate	0.3537	0.7074	1.7686	0.1180	2.0188	2.0000	101
Tetrahydrofuran	0.0507	0.1015	0.2537	0.0169	0.0941	0.1000	94
2-Butanone (MEK)	0.3608	0.7217	1.8042	0.1204	2.2254	2.0000	111
1,2-Dichloroethane (EDC)	0.0060	0.0120	0.0300	0.0020	0.0200	0.0200	100
1,1,1-Trichloroethane	0.0078	0.0156	0.0390	0.0026	0.0218	0.0200	109
Carbon tetrachloride	0.0064	0.0128	0.0320	0.0021	0.0215	0.0200	108
Benzene	0.0120	0.0239	0.0598	0.0040	0.0268	0.0200	134
Cyclohexane	0.2208	0.4417	1.1042	0.0737	2.0836	2.0000	104
1,2-Dichloropropane	0.0187	0.0373	0.0934	0.0062	0.0978	0.1000	98
1,4-Dioxane	0.0168	0.0336	0.0840	0.0056	0.0974	0.1000	97
2,2,4-Trimethylpentane	0.1409	0.2818	0.7044	0.0470	2.0534	2.0000	103
Methyl Methacrylate	0.3096	0.6193	1.5482	0.1033	2.0570	2.0000	103
Heptane	0.1453	0.2906	0.7264	0.0485	2.0693	2.0000	103
Bromodichloromethane	0.0095	0.0190	0.0474	0.0032	0.0210	0.0200	105
Trichloroethene	0.0095	0.0189	0.0474	0.0032	0.0216	0.0200	108
cis-1,3-Dichloropropene	0.0321	0.0642	0.1606	0.0107	0.1048	0.1000	105
4-Methyl-2-pentanone	0.5399	1.0799	2.6997	0.1801	2.1584	2.0000	108
trans-1,3-Dichloropropene	0.0231	0.0462	0.1154	0.0077	0.0989	0.1000	99
Toluene	0.0251	0.0502	0.1254	0.0084	0.1006	0.1000	101
1,1,2-Trichloroethane	0.0085	0.0171	0.0427	0.0029	0.0221	0.0200	111
2-Hexanone	0.5637	1.1274	2.8185	0.1880	2.0233	2.0000	101
Tetrachloroethene	0.0269	0.0537	0.1343	0.0090	0.1036	0.1000	104
Dibromochloromethane	0.0089	0.0178	0.0446	0.0030	0.0206	0.0200	103
1,2-Dibromoethane (EDB)	0.0076	0.0152	0.0380	0.0025	0.0221	0.0200	111
Chlorobenzene	0.0238	0.0476	0.1190	0.0079	0.1038	0.1000	104
Ethylbenzene	0.0106	0.0213	0.0531	0.0035	0.0890	0.1000	89
1,1,2,2-Tetrachloroethane	0.0087	0.0175	0.0437	0.0029	0.0213	0.0200	106
Nonane	0.1444	0.2888	0.7220	0.0482	1.9725	2.0000	99
Isopropylbenzene	0.4162	0.8323	2.0809	0.1388	2.1865	2.0000	109
2-Chlorotoluene	0.2295	0.4590	1.1474	0.0765	2.1709	2.0000	109
Propylbenzene	0.1862	0.3725	0.9312	0.0621	2.1711	2.0000	109
4-Ethyltoluene	0.3631	0.7261	1.8153	0.1211	2.0490	2.0000	102
m,p-Xylene	0.0314	0.0628	0.1570	0.0105	0.1748	0.2000	87
o-Xylene	0.0133	0.0265	0.0663	0.0044	0.0869	0.1000	87
Styrene	0.0668	0.1337	0.3341	0.0223	0.1050	0.1000	105
Bromoform	0.0631	0.1262	0.3154	0.0210	0.1038	0.1000	104
Benzyl chloride	0.0062	0.0123	0.0308	0.0021	0.0178	0.0200	89
1,3,5-Trimethylbenzene	0.0704	0.1408	0.3521	0.0235	2.1275	2.0000	106
1,2,4-Trimethylbenzene	0.3344	0.6687	1.6719	0.1115	2.0688	2.0000	103
1,3-Dichlorobenzene	0.0364	0.0728	0.1820	0.0121	0.0863	0.1000	86
1,4-Dichlorobenzene	0.0242	0.0485	0.1212	0.0081	0.0856	0.1000	86
1,2-Dichlorobenzene	0.0283	0.0566	0.1415	0.0094	0.0898	0.1000	90
1,2,4-Trichlorobenzene	0.0721	0.1441	0.3603	0.0240	0.1206	0.1000	121
Naphthalene	0.0034	0.0068	0.0169	0.0011	0.0161	0.0200	81
Hexachlorobutadiene	0.0086	0.0172	0.0430	0.0029	0.0228	0.0200	114

**EPA TO-15**  
**Sequence Tables**

Sequence Name: D:\GCMS7\GCMS7\_Data\07-25-23.s

Comment:

Operator: bat

Data Path: D:\GCMS7\GCMS7\_DATA\07-25-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run            On A Barcode Mismatch  
 Full Method                     Inject Anyway  
 Reprocessing Only             Don't Inject

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Line	Sample		Sample Name/Misc Info
1)	Sample	1	072501 TO15DC RinseBake
2)	Sample	2	072502 TO15DC rinse
3)	Sample	3	072503 TO15DC BFB 69-152a
4)	Sample	4	072504 TO15DC 25 ppbv std prime
5)	Sample	5	072505 TO15DC 25 ppbv scv prime
6)	Sample	6	072506 TO15DC 1.0 ppbv std prime
7)	Sample	7	072507 TO15DC 0.1 ppbv std prime
8)	Sample	8	072508 TO15DC 0.05 ppbv std prime
9)	Sample	9	072509 TO15DC 0.02 ppbv std prime
10)	Sample	10	072510 SRINSE rinse, short
11)	Sample	11	072511 SRINSE rinse, short
12)	Sample	12	072512 SRINSE rinse, short
13)	Sample	13	072513 TO15DC rinse
14)	Sample	14	072514 TO15DC rinse
15)	Sample	15	072515 TO15DC rinse
16)	Sample	16	072516 TO15DC 0.01 ppbv prime
17)	Sample	17	072517 TO15DC 0.01 ppbv TO15 69-157-e
18)	Sample	18	072518 TO15DC 0.02 ppbv TO15 69-157-e
19)	Sample	19	072519 TO15DC 0.05 ppbv TO15 69-157-d
20)	Sample	20	072520 TO15DC 0.1 ppbv TO15 69-157-c
21)	Sample	21	072521 TO15DC 0.2 ppbv TO15 69-157-b
22)	Sample	22	072522 TO15DC 0.5 ppbv TO15 69-157-b
23)	Sample	23	072523 TO15DC 1.0 ppbv TO15 69-157-b
24)	Sample	24	072524 TO15DC 2.5 ppbv TO15 69-157-a
25)	Sample	25	072525 TO15DC 4.0 ppbv TO15 69-157-a
26)	Sample	26	072526 TO15DC 5.0 ppbv TO15 69-157-a
27)	Sample	27	072527 TO15DC 8.0 ppbv TO15 69-157-a
28)	Sample	28	072528 TO15DC 10 ppbv TO15 69-157-a
29)	Sample	29	072529 TO15DC 15 ppbv TO15 69-157-a
30)	Sample	30	072530 TO15DC rinse
31)	Sample	31	072531 TO15DC rinse
32)	Sample	32	072532 TO15DC rinse
33)	Sample	33	072533 TO15DC 2.5 ppbv TO15 SCV 69-158-a
34)	Sample	34	072534 TO15DC rinse
35)	Sample	35	072535 TO15DC rinse
36)	Sample	36	072536 TO15DC rinse

## Injection Log

Data Directory: D:\Proc\_GCMS7\07-25-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 072501.D RinseBake	TO15DC.M T1	1	1.000	25 Jul 2023 12:18 pm
2) 072502.D rinse	TO15DC.M T1	2	1.000	25 Jul 2023 1:00 pm
3) 072503.D BFB 69-152a	TO15DC.M T1	3	1.000	25 Jul 2023 1:34 pm
4) 072504.D 25 ppbv std prime	TO15DC.M Cal line	4	1.000	25 Jul 2023 2:09 pm
5) 072505.D 25 ppbv scv prime	TO15DC.M T6	5	1.000	25 Jul 2023 2:43 pm
6) 072506.D 1.0 ppbv std prime	TO15DC.M T5	6	1.000	25 Jul 2023 3:21 pm
7) 072507.D 0.1 ppbv std prime	TO15DC.M T4	7	1.000	25 Jul 2023 3:59 pm
8) 072508.D 0.05 ppbv std prime	TO15DC.M T3	8	1.000	25 Jul 2023 4:37 pm
9) 072509.D 0.02 ppbv std prime	TO15DC.M T2	9	1.000	25 Jul 2023 5:16 pm
10) 072510.D rinse, short	SRINSE.M T1	10	1.000	25 Jul 2023 5:55 pm
11) 072511.D rinse, short	SRINSE.M T1	11	1.000	25 Jul 2023 6:31 pm
12) 072512.D rinse, short	SRINSE.M T1	12	1.000	25 Jul 2023 7:08 pm
13) 072513.D rinse	TO15DC.M T1	13	1.000	25 Jul 2023 7:51 pm
14) 072514.D rinse	TO15DC.M T1	14	1.000	25 Jul 2023 8:35 pm
15) 072515.D rinse	TO15DC.M T1	15	1.000	25 Jul 2023 9:20 pm
16) 072516.D 0.01 ppbv prime	TO15DC.M T2	16	1.000	25 Jul 2023 9:58 pm
17) 072517.D 0.01 ppbv TO15 69-..	TO15DC.M T2	17	1.000	25 Jul 2023 10:36 pm
18) 072518.D 0.02 ppbv TO15 69-..	TO15DC.M T2	18	1.000	25 Jul 2023 11:21 pm
19) 072519.D 0.05 ppbv TO15 69-..	TO15DC.M T3	19	1.000	26 Jul 2023 12:05 am
20) 072520.D 0.1 ppbv TO15 69-1..	TO15DC.M T4	20	1.000	26 Jul 2023 12:50 am
21) 072521.D	TO15DC.M			

0.2 ppbv TO15 69-1.. T5		21	1.000	26 Jul 2023	1:24 am
22) 072522.D	TO15DC.M				
0.5 ppbv TO15 69-1.. T5		22	1.000	26 Jul 2023	2:03 am
23) 072523.D	TO15DC.M				
1.0 ppbv TO15 69-1.. T5		23	1.000	26 Jul 2023	2:47 am
24) 072524.D	TO15DC.M				
2.5 ppbv TO15 69-1.. cal line		24	1.000	26 Jul 2023	3:21 am
25) 072525.D	TO15DC.M				
4.0 ppbv TO15 69-1.. cal line		25	1.000	26 Jul 2023	3:56 am
26) 072526.D	TO15DC.M				
5.0 ppbv TO15 69-1.. cal line		26	1.000	26 Jul 2023	4:30 am
27) 072527.D	TO15DC.M				
8.0 ppbv TO15 69-1.. cal line		27	1.000	26 Jul 2023	5:07 am
28) 072528.D	TO15DC.M				
10 ppbv TO15 69-15.. cal line		28	1.000	26 Jul 2023	5:44 am
29) 072529.D	TO15DC.M				
15 ppbv TO15 69-15.. cal line		29	1.000	26 Jul 2023	6:23 am
30) 072530.D	TO15DC.M				
rinse	T1	30	1.000	26 Jul 2023	7:08 am
31) 072531.D	TO15DC.M				
rinse	T1	31	1.000	26 Jul 2023	7:53 am
32) 072532.D	TO15DC.M				
rinse	T1	32	1.000	26 Jul 2023	8:38 am
33) 072533.D	TO15DC.M				
2.5 ppbv TO15 SCV .. T6		33	1.000	26 Jul 2023	9:12 am
34) 072534.D	TO15DC.M				
rinse	T1	34	1.000	26 Jul 2023	9:50 am
35) 072535.D	TO15DC.M				
rinse	T1	35	1.000	26 Jul 2023	10:35 am
36) 072536.D	TO15DC.M				
rinse	T1	36	1.000	26 Jul 2023	11:20 am

Sequence Name: D:\GCMS7\GCMS7\_Data\08-09-23.s

Comment:

Operator: bat

Data Path: D:\GCMS7\GCMS7\_DATA\08-09-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch  
(X) Full Method              (X) Inject Anyway  
( ) Reprocessing Only        ( ) Don't Inject

MD 8/10/23

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Line	Sample Name/Misc Info
1) Sample	1 080901 TO15DC rinse
2) Sample	2 080902 TO15DC BFB 70-1a
3) Sample	3 080903 TO15DC 03-1809 lcs/ 2.5 ppbv 69-157a
4) Sample	4 080904 TO15DC 5 ppbv APH 69-161a
5) Sample	5 080905 TO15DC 03-1809 lcs/ 67 ug/ml 69-169b
6) Sample	6 080906 TO15DC 03-1809 lcs/ 80 ppbv 69-161b
7) Sample	6 080907 SRINSE rinse, short
8) Sample	7 080908 SRINSE rinse, short
9) Sample	8 080909 TO15DC rinse
10) Sample	9 080910 TO15DC rinse
11) Sample	11 080911 TO15DC 03-1809 MB
12) Sample	12 080912 TO15DC 308147-01
13) Sample	13 080913 TO15DC 308147-03
14) Sample	14 080914 TO15DC 308147-04
15) Sample	15 080915 TO15DC 308147-06
16) Sample	16 080916 TO15DC 308147-08
17) Sample	17 080917 TO15DC rinse
18) Sample	18 080918 TO15DC 308147-02 1/5.0
19) Sample	19 080919 TO15DC 308147-05 1/5.3
20) Sample	20 080920 TO15DC 308147-07 1/5.1
21) Sample	21 080921 TO15DC rinse
22) Sample	22 080922 TO15DC 308149-01 dup 1/7.3
23) Sample	23 080923 TO15DC 308149-01 1/7.3
24) Sample	24 080924 TO15DC rinse
25) Sample	25 080925 TO15DC 308150-02 1/6.4
26) Sample	26 080926 TO15DC rinse, short
27) Sample	27 080927 TO15DC rinse
28) Sample	28 080928 TO15DC 308150-01 1/49
29) Sample	29 080929 TO15DC rinse
30) Sample	30 080930 TO15DC rinse



## Injection Log

Data Directory: D:\Proc\_GCMS7\08-09-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 080901.D rinse	TO15DC.M T1	1	1.000	9 Aug 2023 9:13 am
2) 080902.D BFB 70-1a	TO15DC.M T1	2	1.000	9 Aug 2023 10:14 am
3) 080903.D 03-1809 lcs/ 2.5 p.. Cal line	TO15DC.M	3	1.000	9 Aug 2023 11:02 am
4) 080904.D 5 ppbv APH 69-161a line 4	TO15DC.M line 4	4	1.000	9 Aug 2023 11:37 am
5) 080905.D 03-1809 lcs/ 67 ug.. line 3	TO15DC.M line 3	5	1.000	9 Aug 2023 12:16 pm
6) 080906.D 03-1809 lcs/ 80 pp.. line 4	TO15DC.M line 4	6	1.000	9 Aug 2023 12:50 pm
7) 080907.D rinse, short	SRINSE.M T1	6	1.000	9 Aug 2023 1:29 pm
8) 080908.D rinse, short	SRINSE.M T1	7	1.000	9 Aug 2023 2:06 pm
9) 080909.D rinse	TO15DC.M T1	8	1.000	9 Aug 2023 2:48 pm
10) 080910.D rinse	TO15DC.M T1	9	1.000	9 Aug 2023 3:32 pm
11) 080911.D 03-1809 MB	TO15DC.M T1	11	1.000	9 Aug 2023 4:16 pm
12) 080912.D 308147-01	TO15DC.M T2	12	1.000	9 Aug 2023 5:32 pm
13) 080913.D 308147-03	TO15DC.M T3	13	1.000	9 Aug 2023 6:20 pm
14) 080914.D 308147-04	TO15DC.M T4	14	1.000	9 Aug 2023 7:11 pm
15) 080915.D 308147-06	TO15DC.M T5	15	1.000	9 Aug 2023 8:08 pm
16) 080916.D 308147-08	TO15DC.M T6	16	1.000	9 Aug 2023 8:58 pm
17) 080917.D rinse	TO15DC.M T1	17	1.000	9 Aug 2023 9:42 pm
18) 080918.D 308147-02 1/5.0	TO15DC.M T7	18	1.000	9 Aug 2023 10:17 pm
19) 080919.D 308147-05 1/5.3	TO15DC.M T8	19	1.000	9 Aug 2023 10:53 pm
20) 080920.D 308147-07 1/5.1	TO15DC.M T9	20	1.000	9 Aug 2023 11:29 pm
21) 080921.D	TO15DC.M			

rinse	T1		21	1.000	10 Aug 2023	12:13 am
22) 080922.D		TO15DC.M				
308149-01 dup 1/7.3	T10		22	1.000	10 Aug 2023	12:48 am
23) 080923.D		TO15DC.M				
308149-01 1/7.3	T10		23	1.000	10 Aug 2023	1:24 am
24) 080924.D		TO15DC.M				
rinse	T1		24	1.000	10 Aug 2023	2:08 am
25) 080925.D		TO15DC.M				
308150-02 1/6.4	T11		25	1.000	10 Aug 2023	2:43 am
26) 080926.D		TO15DC.M				
rinse, short	T1		26	1.000	10 Aug 2023	7:47 am
27) 080927.D		TO15DC.M				
rinse	T1		27	1.000	10 Aug 2023	8:31 am
28) 080928.D		TO15DC.M				
308150-01 1/49	line 4		28	1.000	10 Aug 2023	9:05 am
29) 080929.D		TO15DC.M				
rinse	T1		29	1.000	10 Aug 2023	9:42 am
30) 080930.D		TO15DC.M				
rinse	T1		30	1.000	10 Aug 2023	10:27 am

# EPA TO-15 Checklists

# GC/MS ICAL Checklist

T015

Instrument: GC/MS 7

Sequence Date: 7-25-23

Shift # 1

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓ <u>Bent</u>	<u>07-31-23</u>
2nd source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: RL for MIBK is 2.5 ppb ✓

Attach this sheet to raw data package.

YA 07/31/23  
Supervisor Initials and Date

# TO-15/TO-17 Daily Checklist

Instrument: GC/MS 7

Sequence Date: 8/9/23

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 24 hour shift	✓ MD	8/10/23
Internal Standards within limits 60%-140% of the CCV	✓	↓
Surrogate recoveries within limits (TO-15 only)	✓	↓
Laboratory control sample (LCS) recoveries within limits	✓	↓
Tune Analyzed and Passed	✓	↓
Continuing Calibration Analyzed, Evaluated and Passed	✓	↓
Non-Conformance Report filled out (if needed)	NA	↓

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

Attach this sheet to raw data package.

YA 08/10/23  
Supervisor Initials and Date

**EPA TO-15**  
**Internal Standard/Surrogate Summaries**

## GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS7\07-25-23\072503.D

Tune Time : 25 Jul 2023 1:34 pm

Daily Calibration File : D:\Proc\_GCMS7\07-25-23\072524.D

(BFB)

18972 80519 68252

File	Sample	Surrogate Recovery %	Internal Standard Responses
072517.D	0.01 ppbv	96	20753 89779 76970
072518.D	0.02 ppbv	99	20898 91280 75942
072519.D	0.05 ppbv	97	21061 89815 75436
072520.D	0.1 ppbv T	99	20553 89346 75025
072521.D	0.2 ppbv T	98	20134 86492 75349
072522.D	0.5 ppbv T	99	20575 88565 72988
072523.D	1.0 ppbv T	96	20125 87857 73097
072524.D	2.5 ppbv T	103	18972 80519 68252
072525.D	4.0 ppbv T	101	18514 77513 68687
072526.D	5.0 ppbv T	103	18513 80426 70179
072527.D	8.0 ppbv T	102	18400 76702 68061
072528.D	10 ppbv TO	104	18484 76655 68820
072529.D	15 ppbv TO	104	17756 77113 67355
072533.D	2.5 ppbv T	98	19063 81190 72497

(fails) - fails 24hr time check \* - fails criteria

Created: Mon Jul 31 12:31:10 2023 GCMS7

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS7\08-09-23\080902.D

Tune Time : 9 Aug 2023 10:14 am

Daily Calibration File : D:\Proc\_GCMS7\08-09-23\080903.D

(BFB)

20781 81395 73324

File	Sample	Surrogate Recovery %	Internal	Standard	Responses
080911.D	03-1809 MB	92	20411	80434	72651
080912.D	308147-01	92	19225	76375	68518
080913.D	308147-03	92	19141	78194	69576
080914.D	308147-04	94	19797	78991	70176
080915.D	308147-06	93	19166	77466	69091
080916.D	308147-08	93	19231	78754	68376
080918.D	308147-02	94	19529	76491	70649
080919.D	308147-05	94	20238	80338	73764
080920.D	308147-07	95	20248	80455	70089
080922.D	308149-01	94	19666	78630	71303
080923.D	308149-01	95	19385	79183	71749
080925.D	308150-02	94	20143	79044	71182
080928.D	308150-01	101	19737	77461	60515

(fails) - fails 24hr time check \* - fails criteria

Created: Thu Aug 10 10:02:10 2023 GCMS7

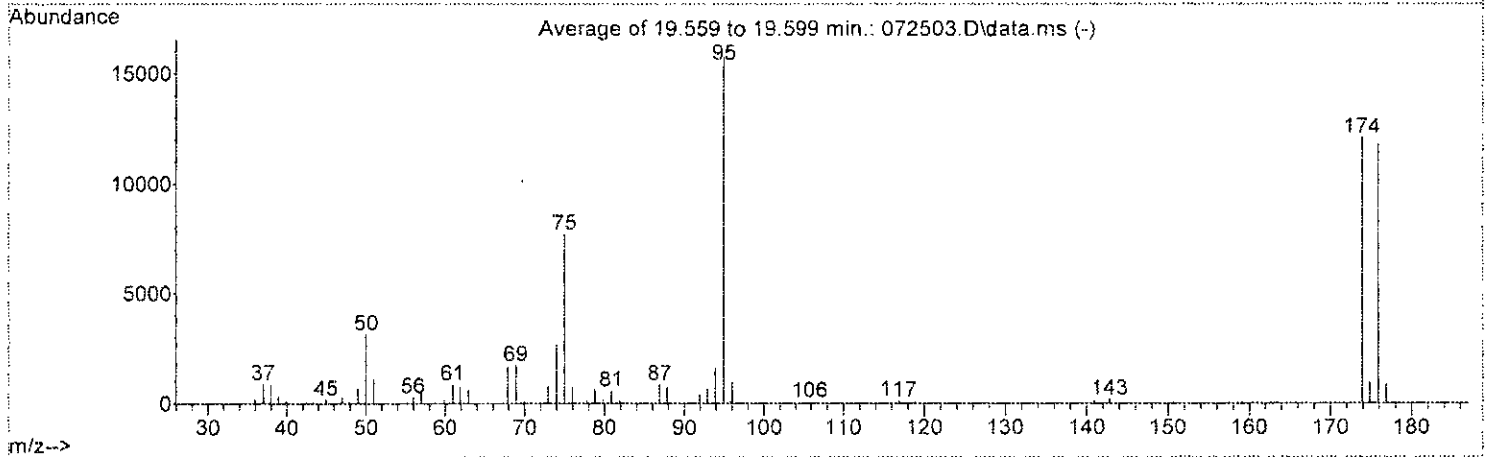
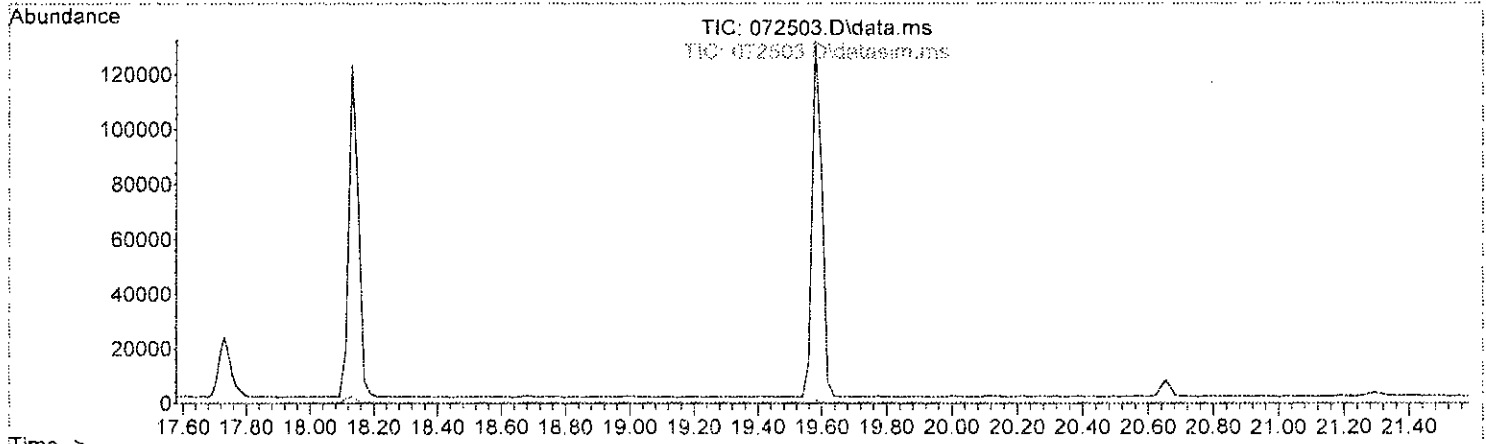


**EPA TO-15  
Tune Summaries**

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072503.D  
 Acq On : 25 Jul 2023 1:34 pm  
 Operator : bat  
 Sample : BFB 69-152a  
 Misc : T1  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : D:\GCMS7 Methods\0725T015ss7.M  
 Title : T0-15 SS method  
 Last Update : Thu Jul 27 16:51:38 2023



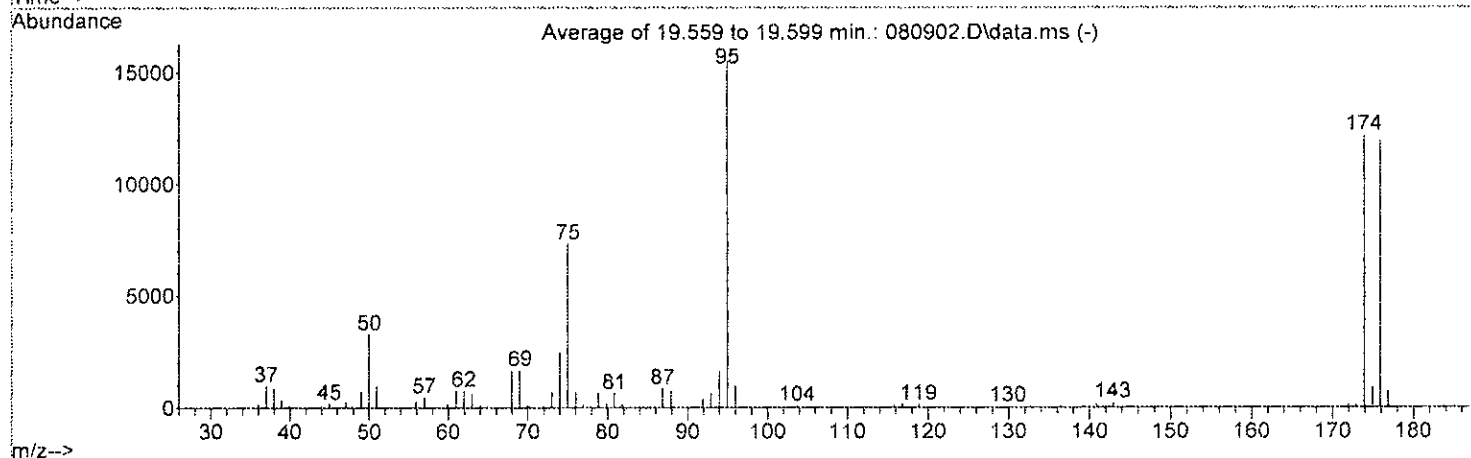
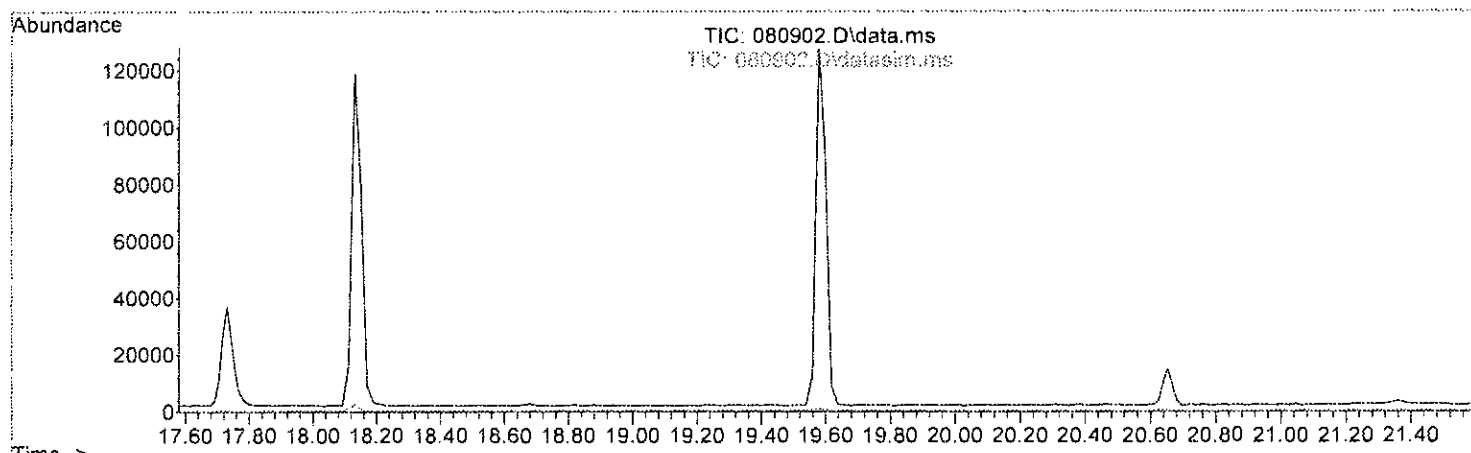
AutoFind: Scans 784, 785, 786; Background Corrected with Scan 781

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.9	3133	PASS
75	95	30	66	49.0	7700	PASS
95	95	100	100	100.0	15717	PASS
96	95	5	9	6.1	961	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.8	12077	PASS
175	174	4	9	7.6	919	PASS
176	174	93	101	97.5	11777	PASS
177	176	5	9	7.2	850	PASS

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080902.D  
 Acq On : 9 Aug 2023 10:14 am  
 Operator : bat  
 Sample : BFB 70-1a  
 Misc : T1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : D:\GCMS7 Methods\0725T015ss7.M  
 Title : TO-15 SS method  
 Last Update : Thu Jul 27 16:51:38 2023



AutoFind: Scans 784, 785, 786; Background Corrected with Scan 781

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.1	3260	PASS
75	95	30	66	47.1	7300	PASS
95	95	100	100	100.0	15486	PASS
96	95	5	9	6.3	980	PASS
173	174	0.00	2	0.7	90	PASS
174	95	50	120	78.6	12167	PASS
175	174	4	9	7.2	878	PASS
176	174	93	101	97.6	11873	PASS
177	176	5	9	6.2	739	PASS

**EPA TO-15**  
**Initial Calibrations**

Calibration Status Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 0725TO15ss7.M  
 Title : TO-15 SS method  
 Last Update : Thu Jul 27 16:51:38 2023  
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.01	-1	10	D:\Proc_GCMS7\07-25-23\072517.D
2	0.02	0	10	D:\Proc_GCMS7\07-25-23\072518.D
3	0.05	0	10	D:\Proc_GCMS7\07-25-23\072519.D
4	0.1	0	10	D:\Proc_GCMS7\07-25-23\072520.D
5	0.2	0	10	D:\Proc_GCMS7\07-25-23\072521.D
6	0.5	1	10	D:\Proc_GCMS7\07-25-23\072522.D
7	1	1	10	D:\Proc_GCMS7\07-25-23\072523.D
8	2.5	3	10	D:\Proc_GCMS7\07-25-23\072524.D
9	4	4	10	D:\Proc_GCMS7\07-25-23\072525.D
10	5	5	10	D:\Proc_GCMS7\07-25-23\072526.D
11	8	8	10	D:\Proc_GCMS7\07-25-23\072527.D
12	10	10	10	D:\Proc_GCMS7\07-25-23\072528.D
13	15	15	10	D:\Proc_GCMS7\07-25-23\072529.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.01	Jul 26 18:58 2023	Jul 26 16:46 2023	25 Jul 2023 10:36 pm
2	0.02	Jul 26 18:58 2023	Jul 26 16:43 2023	25 Jul 2023 11:21 pm
3	0.05	Jul 26 18:58 2023	Jul 26 16:48 2023	26 Jul 2023 12:05 am
4	0.1	Jul 26 18:58 2023	Jul 26 16:51 2023	26 Jul 2023 12:50 am
5	0.2	Jul 26 18:58 2023	Jul 26 16:54 2023	26 Jul 2023 1:24 am
6	0.5	Jul 26 18:58 2023	Jul 26 16:56 2023	26 Jul 2023 2:03 am
7	1	Jul 26 18:58 2023	Jul 26 16:58 2023	26 Jul 2023 2:47 am
8	2.5	Jul 26 18:58 2023	Jul 26 18:47 2023	26 Jul 2023 3:21 am
9	4	Jul 26 18:58 2023	Jul 26 17:04 2023	26 Jul 2023 3:56 am
10	5	Jul 26 18:58 2023	Jul 26 17:06 2023	26 Jul 2023 4:30 am
11	8	Jul 26 18:58 2023	Jul 26 18:44 2023	26 Jul 2023 5:07 am
12	10	Jul 26 18:58 2023	Jul 26 17:13 2023	26 Jul 2023 5:44 am
13	15	Jul 26 18:58 2023	Jul 26 18:42 2023	26 Jul 2023 6:23 am

0725TO15ss7.M Mon Jul 31 12:27:49 2023

## Compound List Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 0725T015ss7.M  
 Title : TO-15 SS method  
 Last Update : Thu Jul 27 16:51:38 2023  
 Response Via : Initial Calibration

Total Cpnds : 78

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Bromochloromethane	128	9.86	1.000	A	2	A	B
2	T Propene	41	3.41	0.345	A	2	A	B
3	T Dichlorodifluoromethane	85	3.48	0.353	A	1	A	B
4	T Chloromethane	-50	3.69	0.374	A	1	A	B
5	T F-114	85	3.88	0.394	A	2	A	B
6	T Vinyl chloride	-62	4.01	0.406	A	1	A	B
7	T 1,3-Butadiene	-54	4.21	0.426	A	3	A	B
8	T Butane	43	4.28	0.434	A	1	A	B
9	T Bromomethane	94	4.56	0.462	A	1	A	B
10	T Chloroethane	-64	4.80	0.487	A	1	A	B
11	T Vinyl bromide	-106	5.26	0.533	A	1	A	B
12	T Ethanol	45	4.92	0.498	A	1	A	B
13	T Acrolein	-56	5.38	0.545	A	1	A	B
14	T Pentane	43	6.25	0.634	A	2	A	B
15	T Trichlorofluoromethane	101	5.80	0.588	A	1	A	B
16	T Acetone	58	5.54	0.562	A	1	A	B
17	T 2-Propanol	45	5.78	0.586	A	2	A	B
18	T 1,1-Dichloroethene	-96	6.65	0.674	A	2	A	B
19	T trans-1,2-Dichloroethene	-96	8.07	0.818	A	2	A	B
20	T Methylene chloride	84	6.78	0.687	A	2	A	B
21	T t-Butyl alcohol (TBA)	59	6.57	0.666	A	1	A	B
22	T 3-Chloropropene	41	6.93	0.703	A	1	A	B
23	T CFC-113	101	7.15	0.724	A	2	A	B
24	T Carbon disulfide	76	7.25	0.735	A	2	A	B
25	T Methyl t-butyl ether (MTBE)	73	8.41	0.852	A	1	A	B
26	T Vinyl acetate	43	8.51	0.863	A	1	A	B
27	T 1,1-Dichloroethane	-63	8.33	0.845	A	2	A	B
28	T cis-1,2-Dichloroethene	-96	9.60	0.973	A	2	A	B
29	T Hexane	57	9.99	1.013	A	2	A	B
30	T Chloroform	-83	10.07	1.020	A	1	A	B
31	T Ethyl acetate	43	9.90	1.004	A	1	A	B
32	T Tetrahydrofuran	42	10.72	1.086	A	1	A	B
33	T 2-Butanone (MEK)	72	8.88	0.900	A	3	A	B
34	T 1,2-Dichloroethane (EDC)	-62	11.30	1.146	A	2	A	B
35	T 1,1,1-Trichloroethane	-97	11.79	1.196	A	2	A	B
36	T Carbon tetrachloride	-117	12.83	1.300	A	1	A	B
37	T Benzene	-78	12.58	1.275	A	1	A	B
38	T Cyclohexane	84	13.04	1.322	A	2	A	B
39	I 1,4-Difluorobenzene	114	13.11	1.000	A	2	A	B
40	T 1,2-Dichloropropane	-63	13.78	1.051	A	1	A	B
41	T 1,4-Dioxane	-88	14.07	1.073	A	1	A	B
42	T 2,2,4-Trimethylpentane	57	14.21	1.084	A	2	A	B
43	T Methyl methacrylate	41	14.34	1.094	A	2	A	B
44	T Heptane	43	14.53	1.109	A	3	A	B
45	T Bromodichloromethane	-83	14.02	1.070	A	2	A	B
46	T Trichloroethene	-95	14.12	1.077	A	3	A	B
47	T cis-1,3-Dichloropropene	75	15.18	1.158	A	2	A	B
48	T 4-Methyl-2-pentanone	100	15.21	1.160	A	3	A	B
49	T trans-1,3-Dichloropropene	-75	15.78	1.204	A	2	A	B
50	T Toluene	-92	16.31	1.245	A	1	A	B
51	T 1,1,2-Trichloroethane	-83	15.98	1.219	A	2	A	B
52	T 2-Hexanone	43	16.56	1.263	A	3	A	B
53	T Tetrachloroethene	-164	17.52	1.336	A	3	A	B
54	T Dibromochloromethane	-129	16.76	1.279	A	2	A	B
55	T 1,2-Dibromoethane (EDB)	-107	17.01	1.298	A	2	A	B

56	I	Chlorobenzene-d5	117	18.13	1.000	A	2	A	B
57	T	Chlorobenzene	112	18.19	1.003	A	2	A	B
58	T	Ethylbenzene	-91	18.53	1.022	A	1	A	B
59	T	1,1,2,2-Tetrachloroethane	-83	19.14	1.055	A	2	A	B
60	T	Nonane	43	19.32	1.066	A	3	A	B
61	T	Isopropylbenzene	105	19.72	1.087	A	1	A	B
62	T	2-Chlorotoluene	126	20.17	1.113	A	1	A	B
63	T	Propylbenzene	91	20.19	1.113	A	1	A	B
64	T	4-Ethyltoluene	105	20.33	1.121	A	1	A	B
65	T	m,p-Xylene	-106	18.70	1.032	A	1	A	B
66	T	o-Xylene	-106	19.15	1.056	A	1	A	B
67	T	Styrene	104	19.05	1.051	A	1	A	B
68	T	Bromoform	173	18.80	1.037	A	2	A	B
69	S	4-Bromofluorobenzene	95	19.58	1.080	A	2	A	B
70	T	Benzyl chloride	-91	20.95	1.155	A	1	A	B
71	T	1,3,5-Trimethylbenzene	105	20.39	1.125	A	1	A	B
72	T	1,2,4-Trimethylbenzene	105	20.81	1.148	A	1	A	B
73	T	1,3-Dichlorobenzene	-146	20.99	1.158	A	2	A	B
74	T	1,4-Dichlorobenzene	-146	21.05	1.161	A	2	A	B
75	T	1,2-Dichlorobenzene	-146	21.41	1.181	A	2	A	B
76	T	1,2,4-Trichlorobenzene	180	23.67	1.305	A	2	A	B
77	T	Naphthalene	-128	23.86	1.316	QO	2	A	B
78	T	Hexachlorobutadiene	-225	24.44	1.348	A	2	A	B

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

#Qual = number of qualifiers

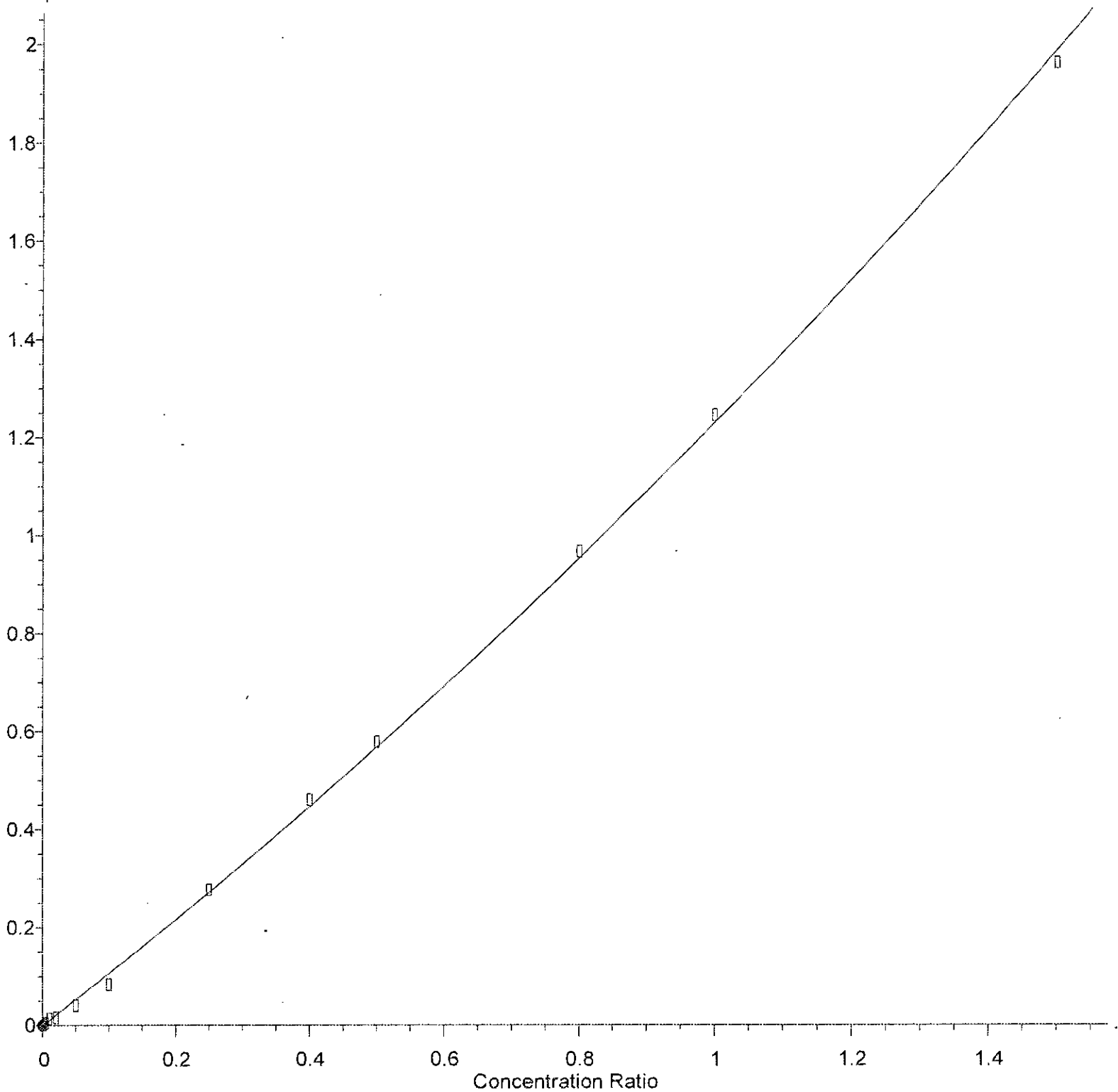
A/H = Area or Height

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

0725T015ss7.M Mon Jul 31 12:27:25 2023

Naphthalene

Response Ratio



$R = 1.913e-001 A^2 + 1.039e+000 A + 0.000e+000$   
Coef of Det ( $r^2$ ) = 0.998252 Curve Fit: Quad w(1/a)/(0,0)  
Method Name: D:\GCMS7 Methods\0725TO15ss7.M  
Calibration Table Last Updated: Thu Jul 27 16:51:38 2023



Response Factor Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 0725T015557.M  
 Title : T0-15 55 method  
 Last Update : Thu Jul 27 16:51:38 2023  
 Response Via : Initial Calibration

Calibration Files  
 0.01=072517.D 0.02=072518.D 0.05=072519.D 0.1 =072520.D 0.2 =072521.D 0.5 =072522.D 1 =072523.D 2.5 =072524.D 4 =072525.D 5 =072526.D  
 8 =072527.D 10 =072528.D 15 =072529.D

Compound	0.01	0.02	0.05	0.1	0.2	0.5	1	2.5	4	5	8	10	15	Avg	%RSD
1) I Bromochloromethane															
2) TMP Propene															
3) TMP Dichlorodifluo...															
4) TMP Chloromethane															
5) TMP F-114															
6) TMP Vinyl chloride															
7) TMP 1,3-Butadiene															
8) TMP Butane															
9) TMP Bromomethane															
10) TMP Chloroethane															
11) TMP Vinyl bromide															
12) TMP Ethanol															
13) TMP Acrolein															
14) TMP Pentane															
15) TMP Trichlorofluor...															
16) TMP Acetone															
17) TMP 2-Propanol															
18) TMP 1,1-Dichloroet...															
19) TMP trans-1,2-Dich...															
20) TMP Methylene chlo...															
21) TMP t-Butyl alcoho...															
22) TMP 3-Chloropropene															
23) TMP CFC-113															
24) TMP Carbon disulfide															
25) TMP Methyl t-butyl...															
26) TMP Vinyl acetate															
27) TMP 1,1-Dichloroet...															
28) TMP cis-1,2-Dichlo...															
29) TMP Hexane															
30) TMP Chloroform															
31) TMP Ethyl acetate															
32) TMP Tetrahydrofuran															
33) TMP 2-Butanone (MEK)															
34) TMP 1,2-Dichloroet...															
35) TMP 1,1,1-Trichlor...															
36) TMP Carbon tetrach...															
37) TMP Benzene															

Response Factor Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 0725T0155S7.M  
 Title : T0-15 SS method  
 38) TMP Cyclohexane

1.420 1.252 1.559 1.445 1.443 1.349 1.352 1.381 1.400 6.43

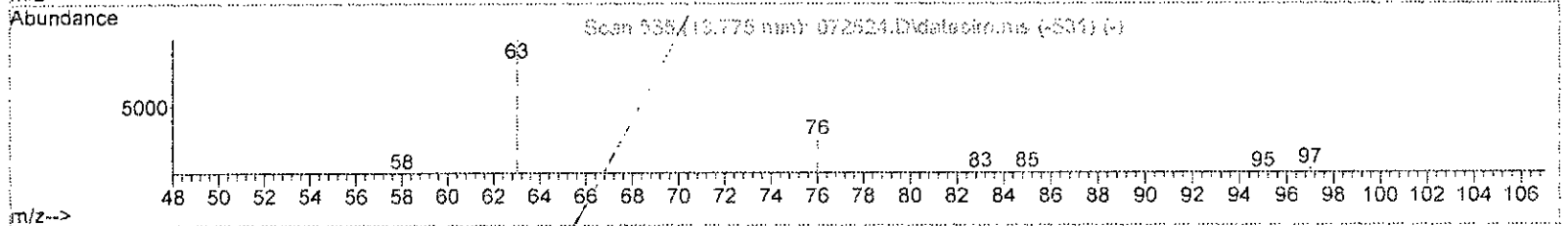
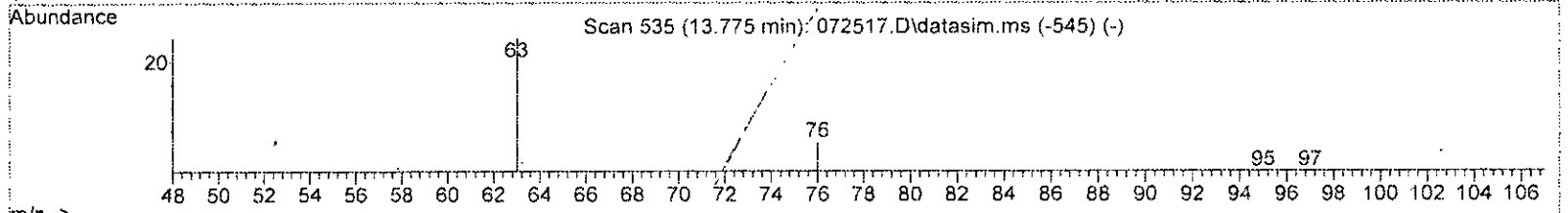
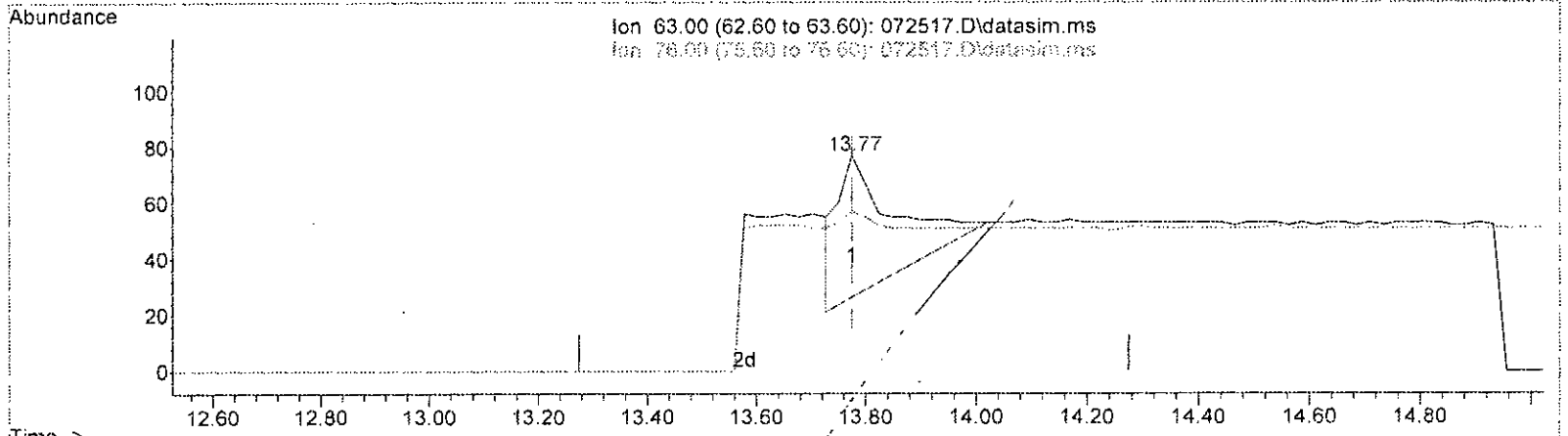
39) I	1,4-Difluorobenzene	-----ISID-----														
40) TMP	1,2-Dichloropr...	0.780	0.646	0.557	0.592	0.634	0.580	0.560	0.674	0.647	0.608	0.599	0.596	0.573	0.619	9.72
41) TMP	1,4-Dioxane			0.254	0.226	0.250	0.220	0.220	0.254	0.243	0.228	0.230	0.226	0.218	0.233	6.06
42) TMP	2,2,4-Trimethy...						1.679	1.692	2.022	1.971	1.869	1.841	1.804	1.760	1.831	6.84
43) TMP	Methyl methacr...						0.534	0.465	0.580	0.573	0.533	0.543	0.534	0.513	0.534	6.70
44) TMP	Heptane						0.607	0.577	0.718	0.709	0.653	0.645	0.661	0.682	0.656	7.32
45) TMP	Bromodichlorom...	1.114	0.970	0.940	0.954	1.052	0.966	0.939	1.139	1.076	0.998	0.989	0.976	0.941	1.004	6.82
46) TMP	Trichloroethene	0.802	0.712	0.650	0.628	0.663	0.599	0.585	0.693	0.612	0.602	0.590	0.565	0.642	10.07	
47) TMP	cis-1,3-Dichlo...				0.713	0.686	0.566	0.604	0.754	0.710	0.664	0.678	0.671	0.662	0.671	8.04
48) TMP	4-Methyl-2-pen...						0.037	0.045	0.037	0.045	0.037	0.042	0.042	0.041	7.74	
49) TMP	trans-1,3-Dich...				0.619	0.568	0.572	0.617	0.564	0.551	0.673	0.648	0.612	0.618	0.610	5.95
50) TMP	Toluene				0.959	0.782	0.722	0.768	0.690	0.658	0.826	0.799	0.745	0.735	0.729	10.22
51) TMP	1,1,2-Trichlor...	0.679	0.575	0.550	0.550	0.599	0.542	0.525	0.636	0.603	0.567	0.588	0.569	0.547	0.579	7.34
52) TMP	2-Hexanone						0.702	0.749	0.952	0.888	0.850	0.855	0.849	0.827	0.834	9.33
53) TMP	Tetrachloroethene				0.440	0.486	0.432	0.416	0.510	0.480	0.447	0.439	0.430	0.425	0.450	6.84
54) TMP	Dibromochlorom...	0.969	0.904	0.875	0.874	0.976	0.901	0.876	1.037	0.988	0.920	0.920	0.895	0.866	0.923	5.76
55) TMP	1,2-Dibromoeth...	1.181	0.937	0.951	0.892	0.916	0.845	0.809	0.991	0.944	0.872	0.861	0.852	0.797	0.911	10.88
56) I	Chlorobenzene-d5	-----ISID-----														
57) TMP	Chlorobenzene				1.053	1.225	1.014	1.017	1.207	1.120	1.035	1.023	0.989	1.004	1.069	8.01
58) TMP	Ethylbenzene	2.196	1.942	1.864	1.777	1.868	1.722	1.610	1.997	1.797	1.718	1.679	1.636	1.597	1.800	9.57
59) TMP	1,1,2,2-Tetrac...	1.923	1.613	1.540	1.515	1.553	1.459	1.392	1.681	1.516	1.423	1.375	1.339	1.349	1.514	10.63
60) TMP	Nonane				0.959	0.883	0.996	0.911	0.870	0.821	0.805	0.783	0.879			8.53
61) TMP	Isopropylbenzene				1.421	1.743	1.513	1.484	1.808	1.662	1.514	1.491	1.457	1.437	1.553	8.71
62) TMP	2-Chlorotoluene				0.383	0.388	0.478	0.421	0.402	0.384	0.385	0.375	0.402			8.43
63) TMP	Propylbenzene				3.330	3.378	3.198	2.961	3.672	3.419	3.241	3.138	3.087	3.001	3.242	6.63
64) TMP	4-Ethyltoluene				1.347	1.305	1.761	1.574	1.499	1.507	1.447	1.443	1.485			9.51
65) TMP	m,p-Xylene	0.737	0.655	0.606	0.619	0.576	0.547	0.664	0.613	0.586	0.570	0.559	0.554	0.607		9.17
66) TMP	o-Xylene	0.606	0.567	0.560	0.575	0.548	0.504	0.632	0.569	0.543	0.528	0.512	0.500	0.554		7.21
67) TMP	Styrene				0.649	0.776	0.704	0.699	0.884	0.794	0.793	0.797	0.799	0.795	0.767	8.65
68) TMP	Bromoforn				0.702	0.959	1.023	0.975	1.020	0.914	0.867	0.847	0.813	0.826	0.895	11.45
69) S	4-Bromofluorob...	0.710	0.732	0.722	0.734	0.726	0.734	0.714	0.760	0.750	0.760	0.754	0.767	0.771	0.741	2.77
70) TMP	Benzyl chloride	0.909	0.711	0.854	0.898	0.873	0.877	0.845	1.082	1.026	0.992	1.004	1.004	1.029	0.931	10.98
71) TMP	1,3,5-Trimethy...				1.113	1.220	1.253	1.214	1.594	1.478	1.380	1.391	1.329	1.277	1.325	10.64
72) TMP	1,2,4-Trimethy...				0.846	0.903	1.026	1.058	1.427	1.315	1.277	1.280	1.251	1.254	1.164	16.53
73) TMP	1,3-Dichlorobe...				0.949	0.922	0.928	0.906	0.880	1.125	1.042	1.002	0.979	0.956	0.949	6.92
74) TMP	1,4-Dichlorobe...				0.843	0.893	0.929	0.853	0.841	0.821	1.033	0.965	0.927	0.913	0.891	6.62
75) TMP	1,2-Dichlorobe...				0.869	0.909	0.946	0.887	0.867	0.841	1.080	1.051	0.963	0.960	0.936	7.68
76) TMP	1,2,4-Trichlor...				0.529	0.472	0.557	0.532	0.627	0.648	0.616	0.627	0.635	0.661	0.590	10.67
77) TMP	Naphthalene	0.724	0.904	1.386	0.780	0.816	0.835	1.112	1.151	1.158	1.211	1.247	1.310	1.053		21.65
78) TMP	Hexachlorobuta...	0.915	0.832	0.868	0.788	0.783	0.754	0.939	0.863	0.822	0.811	0.792	0.797	0.831		6.73

(#) = Out of Range

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072517.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.066 ppbv

response 365

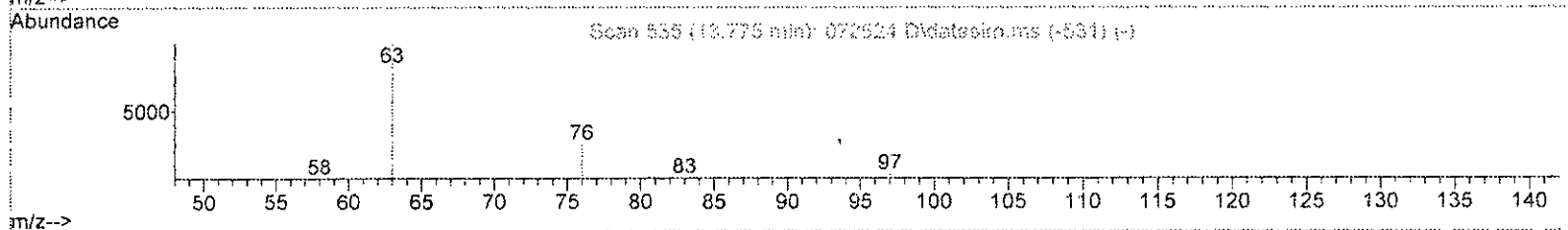
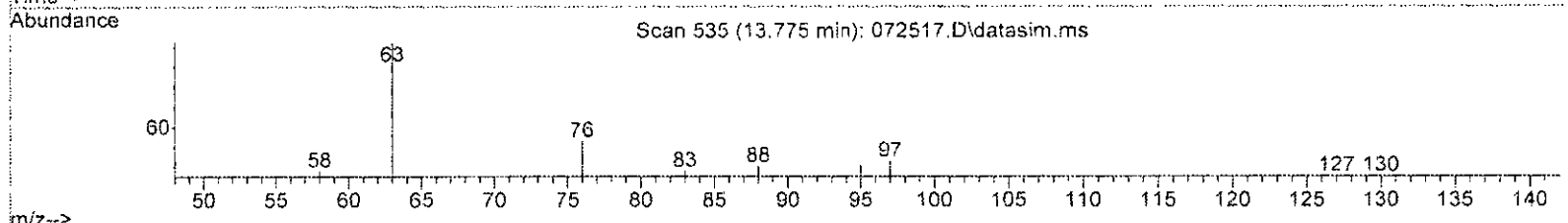
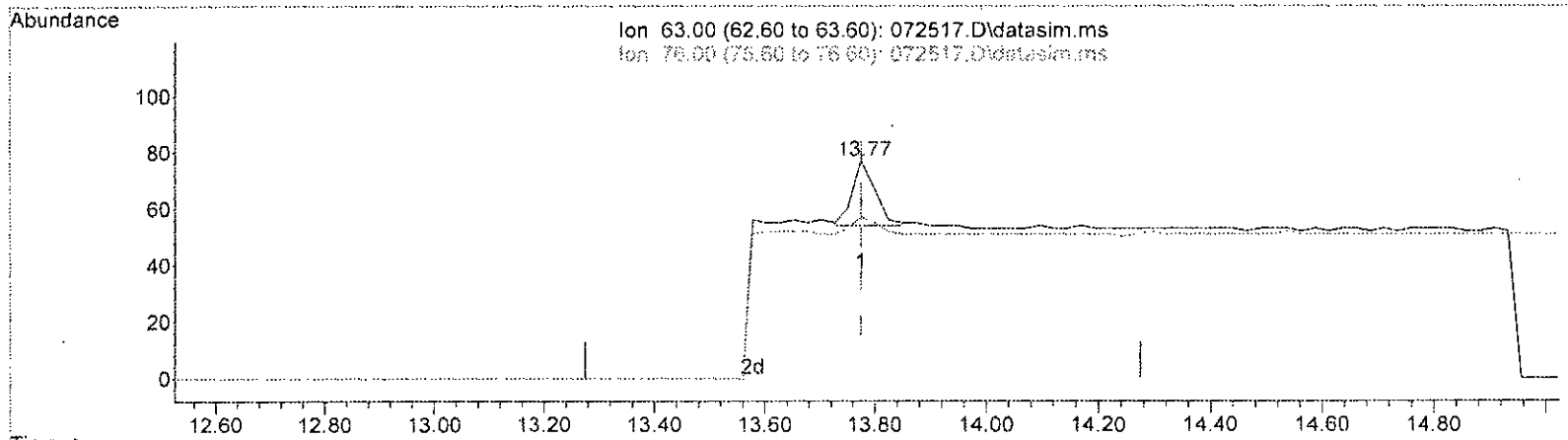
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	25.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature:* u / 2/3/24

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072517.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.012 ppbv m

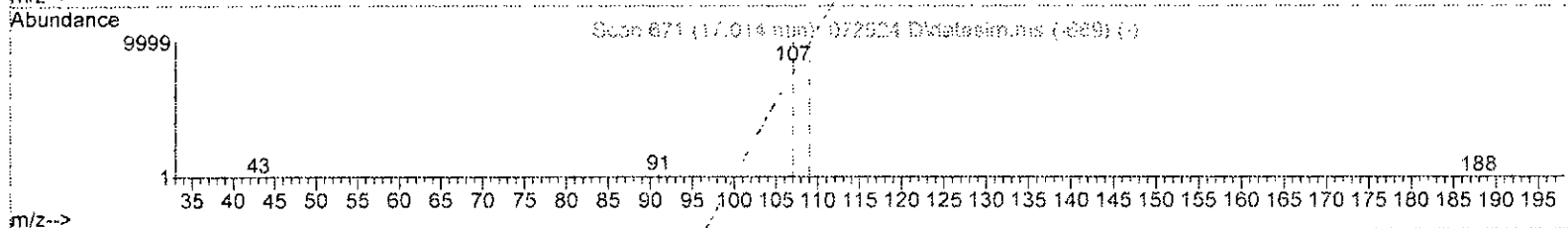
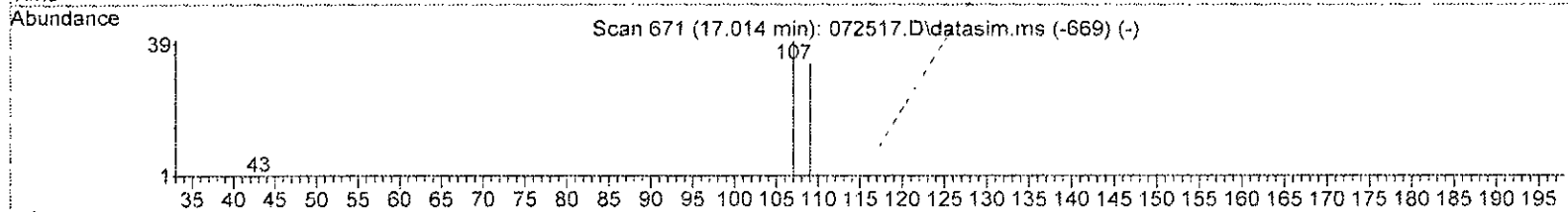
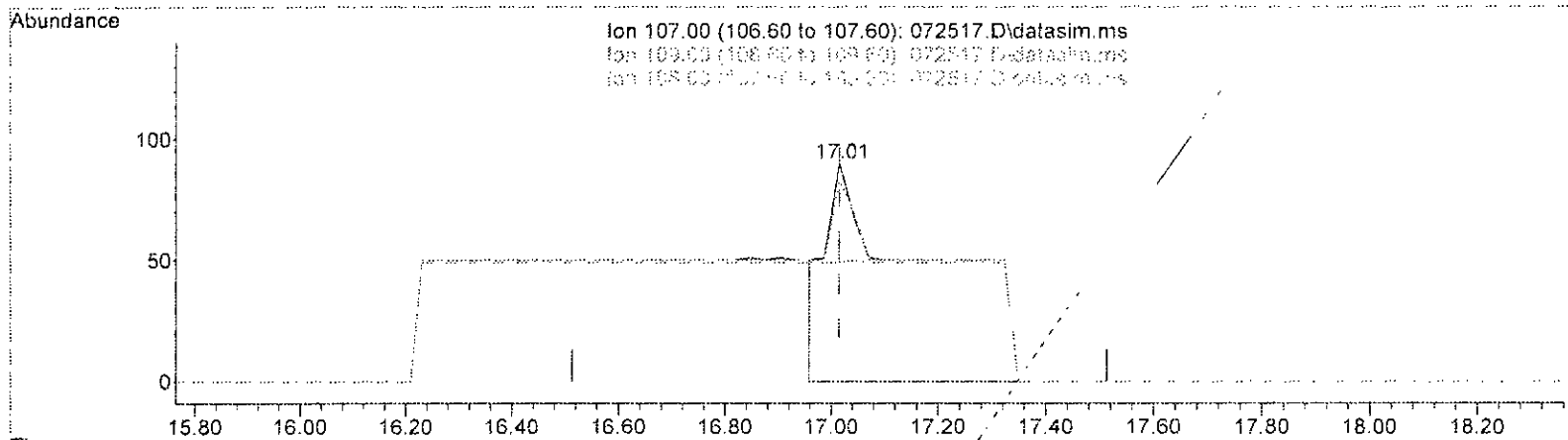
response	66	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	74.03#
0.00	0.00	0.00
0.00	0.00	0.00

2/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072517.D\data.ms

Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	92.22
188.00	2.70	54.44#
0.00	0.00	0.00

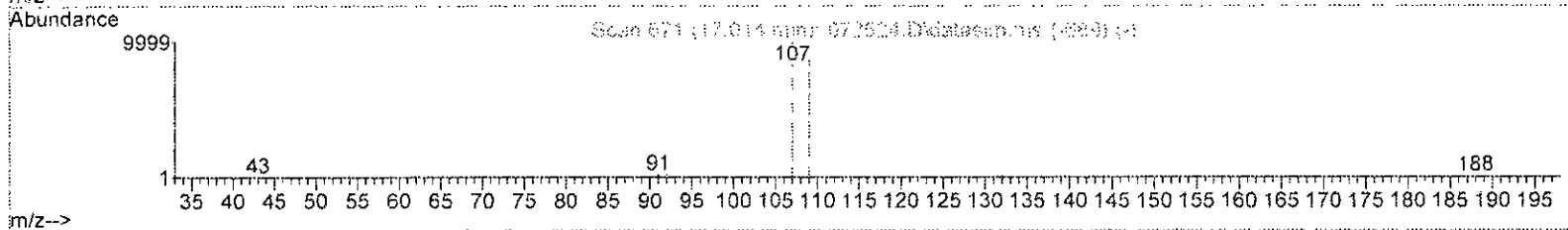
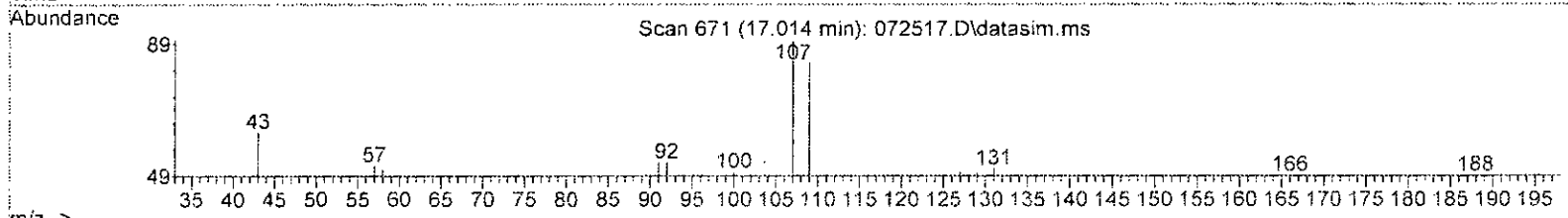
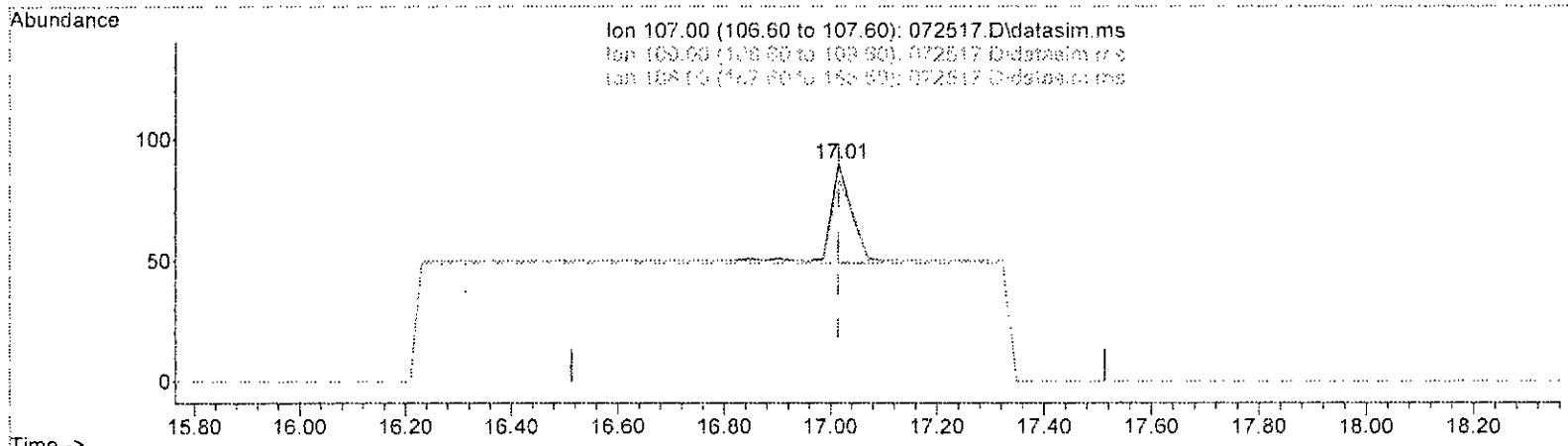
(55) 1,2-Dibromoethane (EDB) (TMP)  
 17.014min ( 0.000) 0.140 ppbv  
 response 1149

*Handwritten note:* 7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072517.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min ( 0.000) 0.013 ppbv m

response 109

Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	92.22
188.00	2.70	54.44#
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	20753	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	89779	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	76970	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	54624	9.577	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.		
3) Dichlorodifluoromethane	0.00		0	N.D.		
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.	d	
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	0.00		0	N.D.		
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	0.00		0	N.D.		
13) Acrolein	0.00		0	N.D.		
14) Pentane	0.00		0	N.D.		
15) Trichlorofluoromethane	0.00		0	N.D.		
16) Acetone	0.00		0	N.D.		
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	0.00		0	N.D.	d	
19) trans-1,2-Dichloroethene	0.00		0	N.D.	d	
20) Methylene chloride	0.00		0	N.D.		
21) t-Butyl alcohol (TBA)	0.00		0	N.D.		
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	0.00		0	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	0.00		0	N.D.		
27) 1,1-Dichloroethane	0.00		0	N.D.	d	
28) cis-1,2-Dichloroethene	0.00		0	N.D.	d	
29) Hexane	0.00		0	N.D.		
30] Chloroform	10.07	83	99	0.011	ppbv	96
31) Ethyl acetate	0.00		0	N.D.		
32) Tetrahydrofuran	0.00		0	N.D.		
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.		
35) 1,1,1-Trichloroethane	0.00		0	N.D.	d	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.		
40] 1,2-Dichloropropane	13.77	63	66m	0.012	ppbv	

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

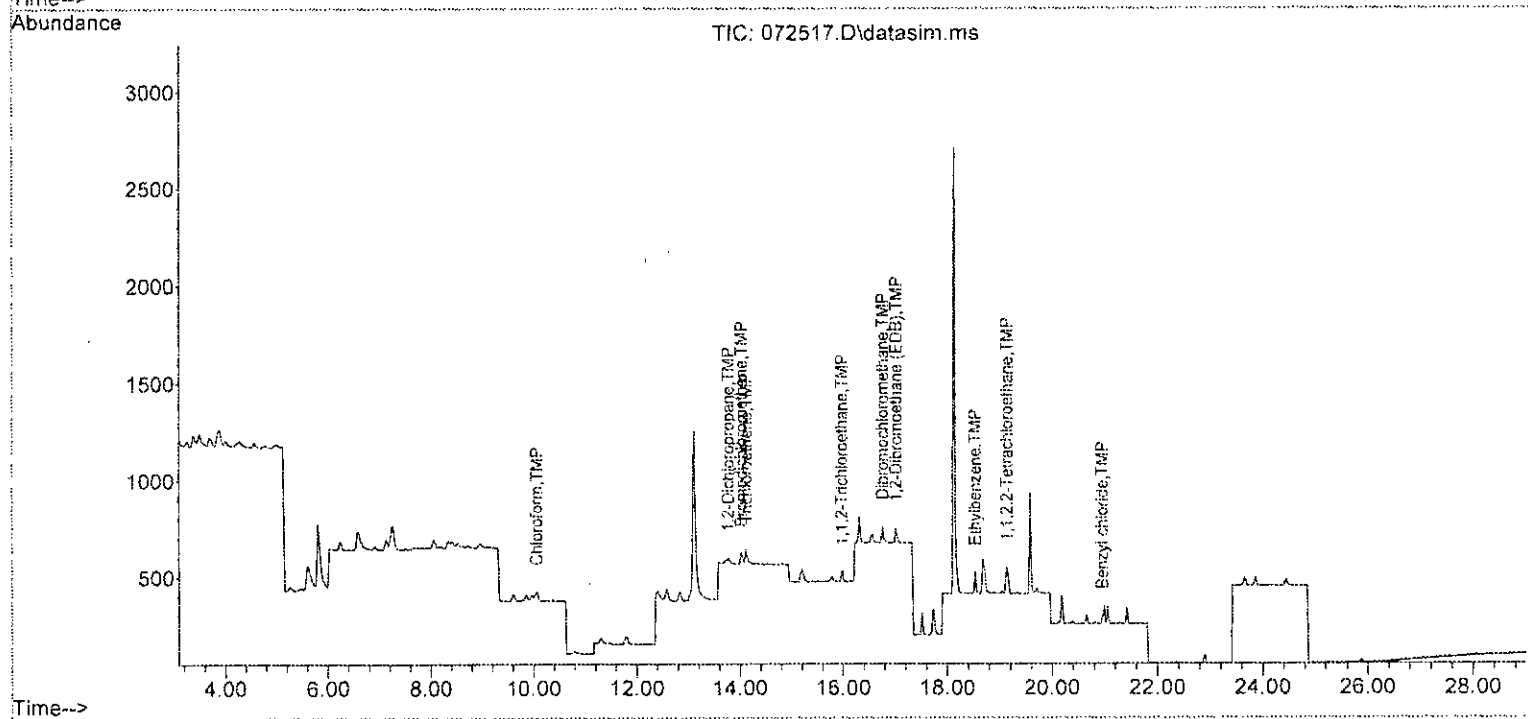
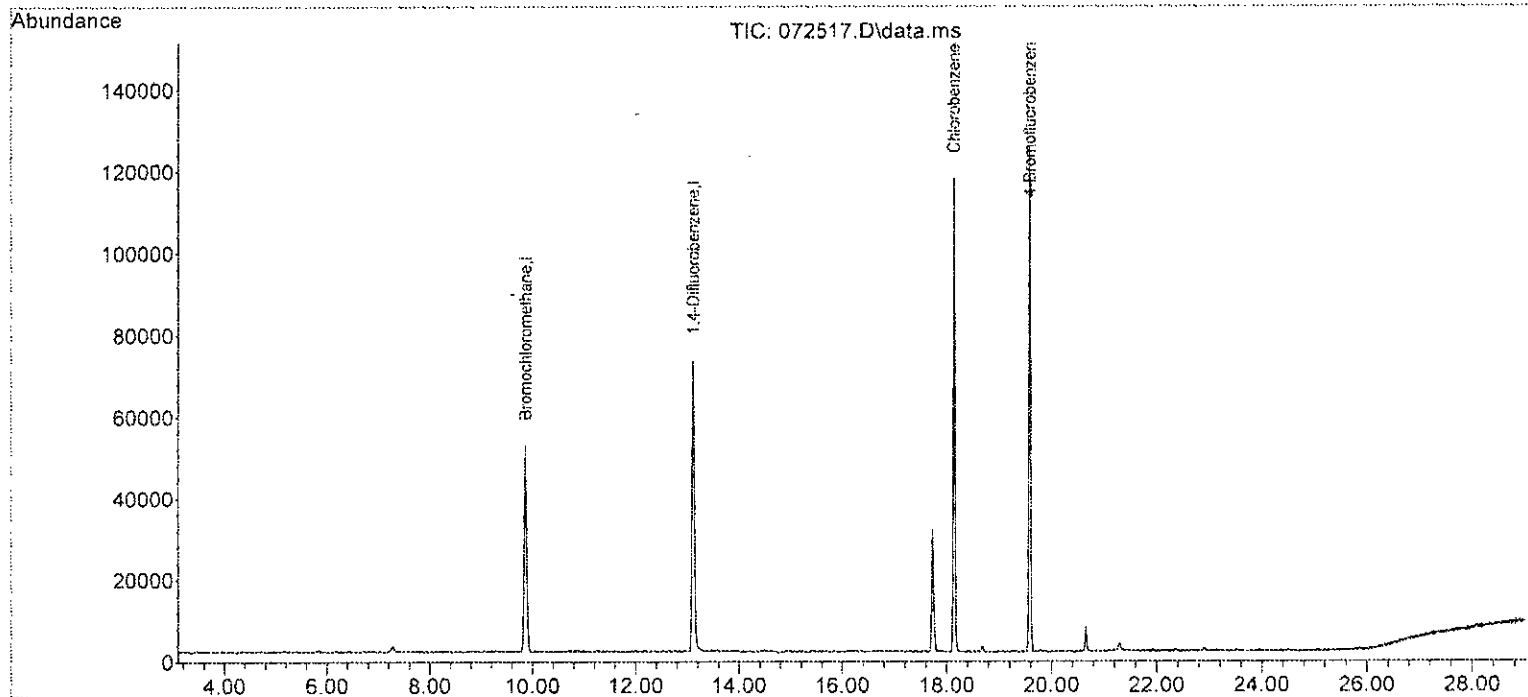
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	d	
42) 2,2,4-Trimethylpentane	0.00		0	N.D.		
43) Methyl methacrylate	0.00		0	N.D.		
44) Heptane	0.00		0	N.D.		
45] Bromodichloromethane	14.02	83	100	0.011	ppbv	97
46] Trichloroethene	14.12	95	72	0.012	ppbv	89
47) cis-1,3-Dichloropropene	0.00		0	N.D.		
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
50) Toluene	0.00		0	N.D.	d	
51] 1,1,2-Trichloroethane	15.98	83	61	0.012	ppbv	91
52) 2-Hexanone	0.00		0	N.D.		
53) Tetrachloroethene	0.00		0	N.D.	d	
54] Dibromochloromethane	16.76	129	87	0.010	ppbv	95
55] 1,2-Dibromoethane (EDB)	17.01	107	109m	0.013	ppbv	
57) Chlorobenzene	0.00		0	N.D.		
58] Ethylbenzene	18.53	91	169	0.012	ppbv	98
59] 1,1,2,2-Tetrachloroethane	19.13	83	148	0.013	ppbv	94
60) Nonane	0.00		0	N.D.		
61) Isopropylbenzene	0.00		0	N.D.		
62) 2-Chlorotoluene	0.00		0	N.D.		
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.		
65) m,p-Xylene	0.00		0	N.D.	d	
66) o-Xylene	0.00		0	N.D.	d	
67) Styrene	0.00		0	N.D.		
68) Bromoform	0.00		0	N.D.		
70] Benzyl chloride	20.95	91	70	0.010	ppbv	95
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.		
73) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
74) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
75) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
77) Naphthalene	0.00		0	N.D.	d	
78) Hexachlorobutadiene	0.00		0	N.D.	d	

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



Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

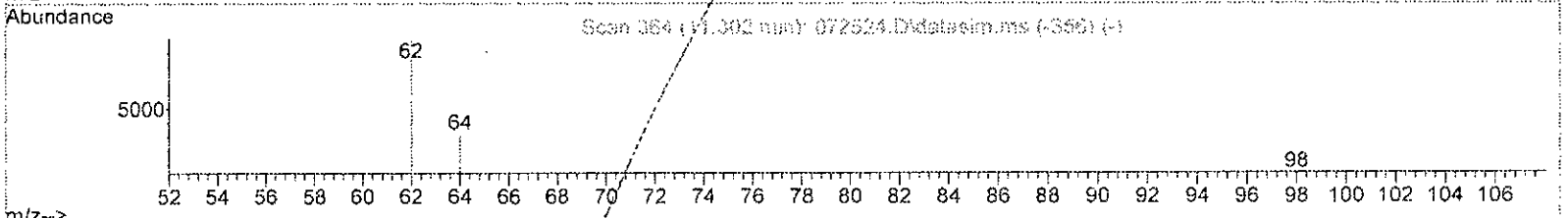
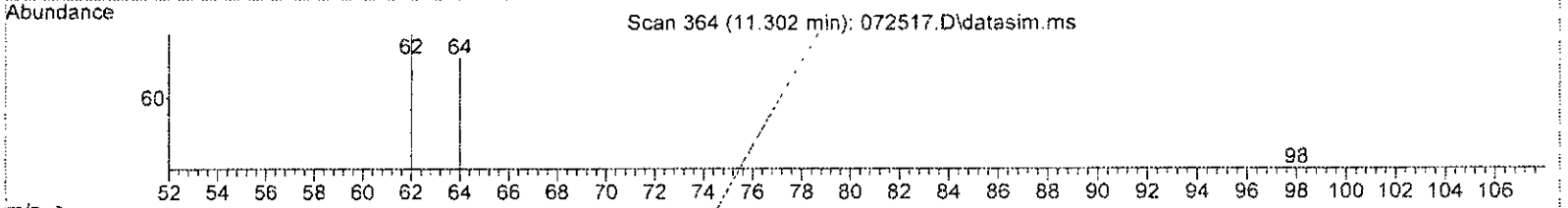
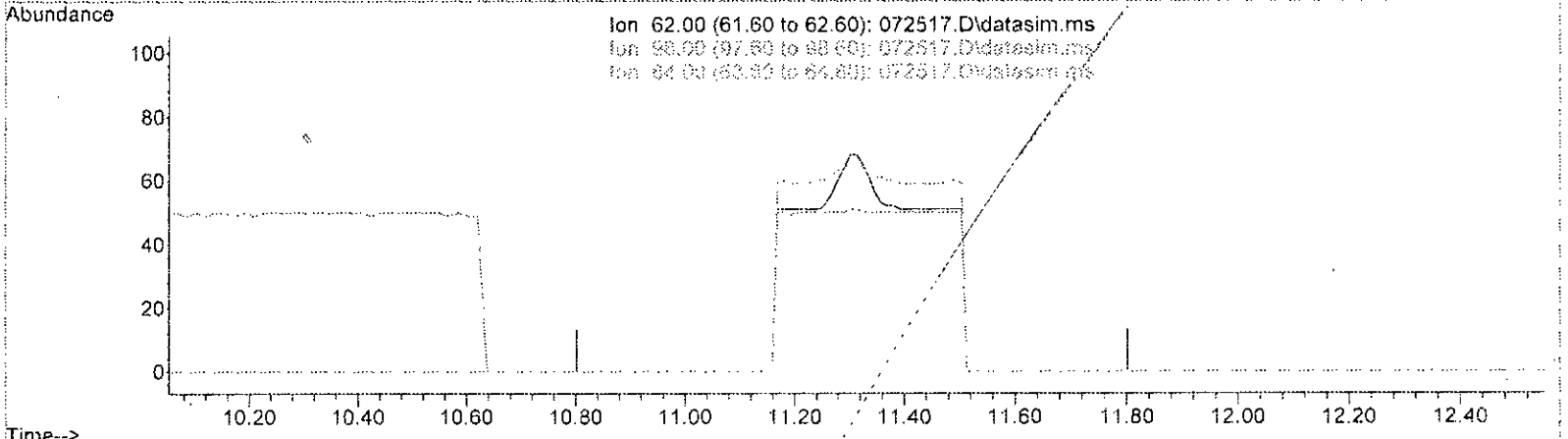
Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072517.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (-11.302) 0.000 ppbv

response 0

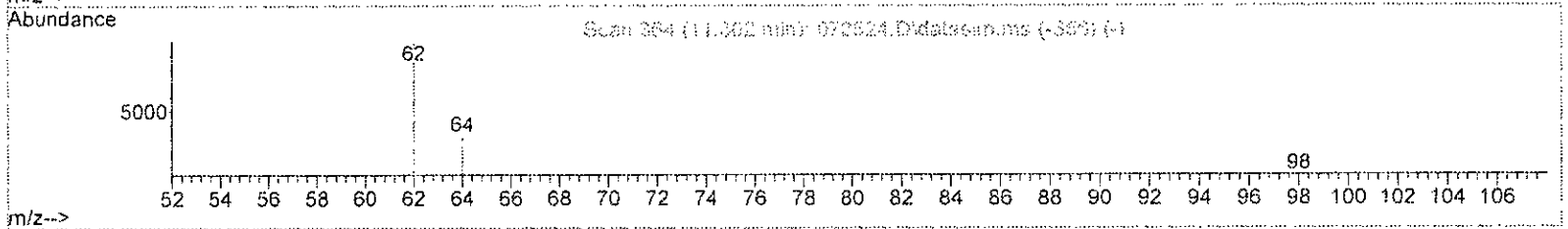
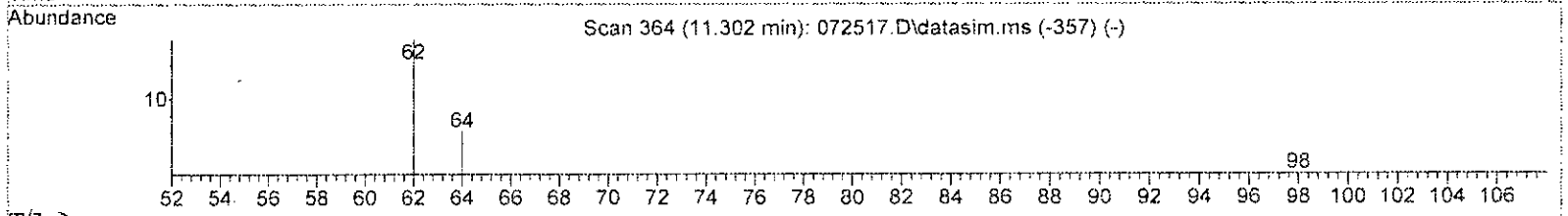
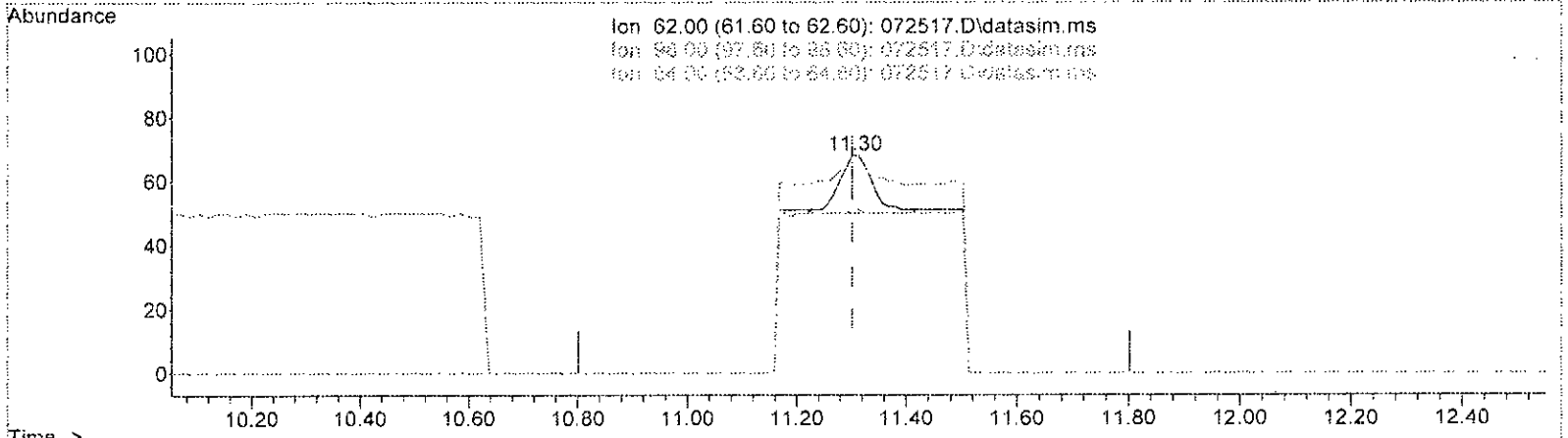
Ion	Exp%	Act%
62.00	100.00	0.00
98.00	5.30	0.00
64.00	33.00	0.00#
0.00	0.00	0.00

*Handwritten signature: V/ 7/27/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072517.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (-0.000) 0.013 ppbv m

response	76
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 75.00#
64.00	33.00 95.59#
0.00	0.00 0.00

2/1/16

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	20753	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	89779	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	76970	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	54624	9.577	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D.	
3) Dichlorodifluoromethane	0.00		0		N.D.	
4) Chloromethane	0.00		0		N.D. d	
5) F-114	0.00		0		N.D.	
6) Vinyl chloride	0.00		0		N.D. d	
7) 1,3-Butadiene	0.00		0		N.D. d	
8) Butane	0.00		0		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	0.00		0		N.D.	
13) Acrolein	0.00		0		N.D.	
14) Pentane	0.00		0		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D.	
16) Acetone	0.00		0		N.D.	
17) 2-Propanol	0.00		0		N.D. d	
18) 1,1-Dichloroethene	0.00		0		N.D. d	
19) trans-1,2-Dichloroethene	0.00		0		N.D. d	
20) Methylene chloride	0.00		0		N.D.	
21) t-Butyl alcohol (TBA)	0.00		0		N.D.	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	0.00		0		N.D.	
25) Methyl t-butyl ether (...)	0.00		0		N.D.	
26) Vinyl acetate	0.00		0		N.D.	
27) 1,1-Dichloroethane	0.00		0		N.D. d	
28) cis-1,2-Dichloroethene	0.00		0		N.D. d	
29) Hexane	0.00		0		N.D.	
30] Chloroform	10.07	83	99	0.011	ppbv	96
31) Ethyl acetate	0.00		0		N.D.	
32) Tetrahydrofuran	0.00		0		N.D.	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34] 1,2-Dichloroethane (EDC)	11.30	62	76m	0.013	ppbv	
35) 1,1,1-Trichloroethane	0.00		0		N.D. d	
36) Carbon tetrachloride	0.00		0		N.D. d	
37) Benzene	0.00		0		N.D. d	
38) Cyclohexane	0.00		0		N.D.	
40] 1,2-Dichloropropane	13.77	63	66m	0.012	ppbv	

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

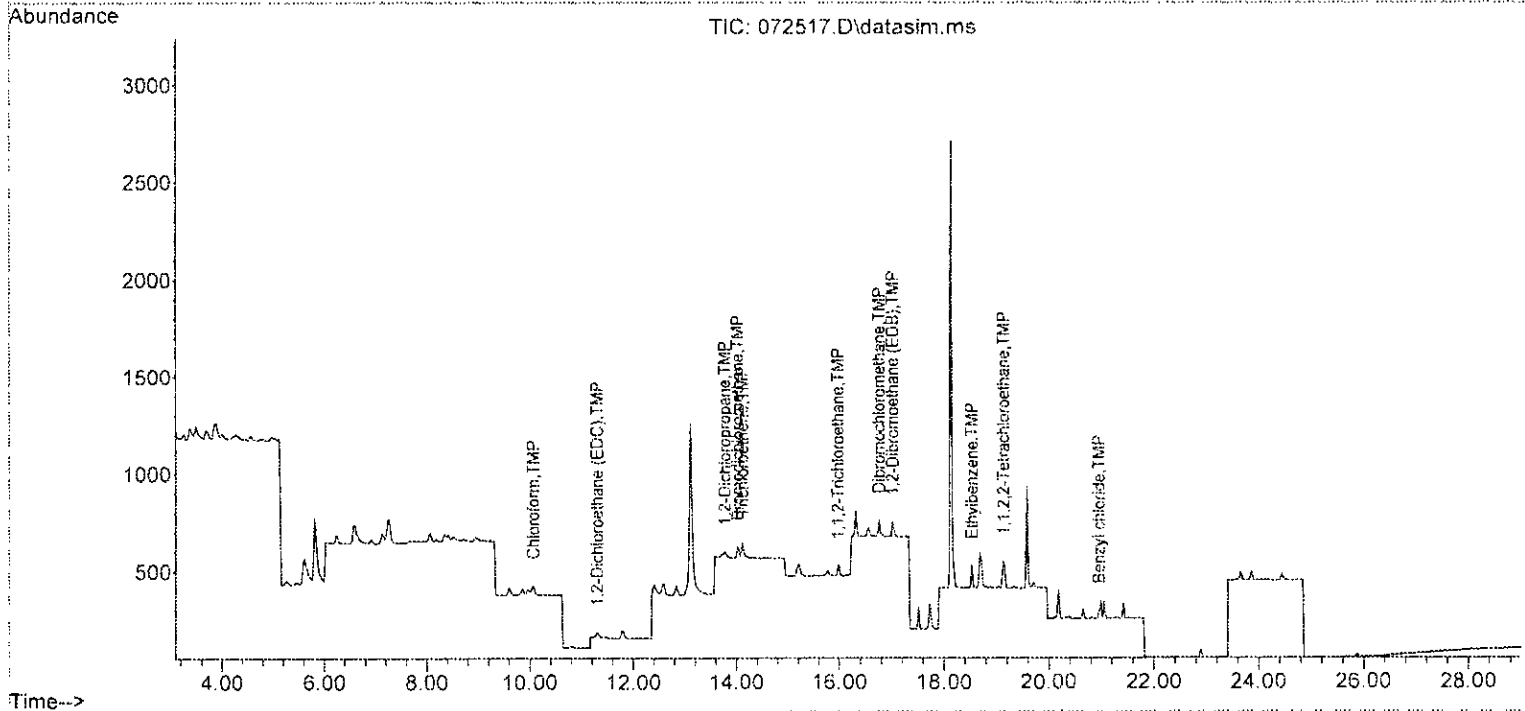
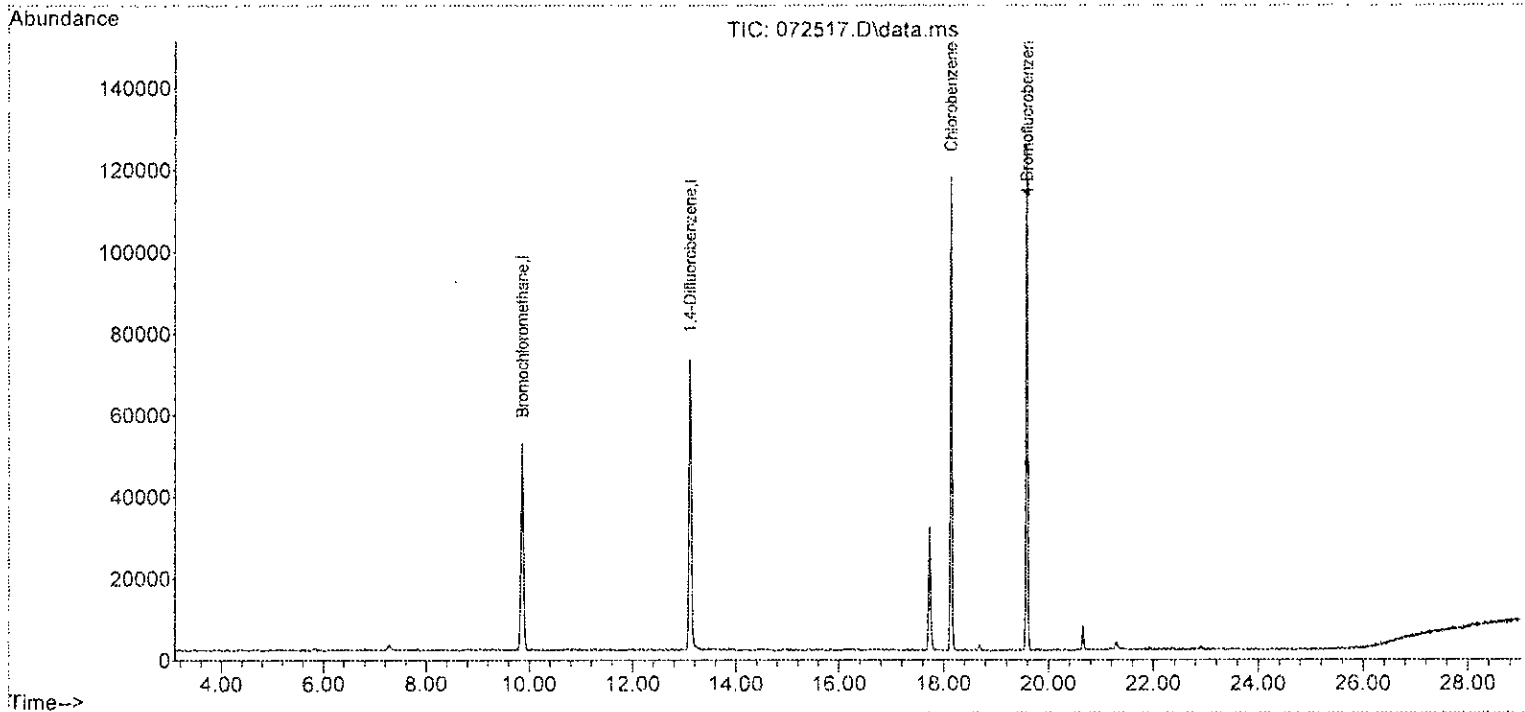
Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	d	
42) 2,2,4-Trimethylpentane	0.00		0	N.D.		
43) Methyl methacrylate	0.00		0	N.D.		
44) Heptane	0.00		0	N.D.		
45] Bromodichloromethane	14.02	83	100	0.011	ppbv	97
46] Trichloroethene	14.12	95	72	0.012	ppbv	89
47) cis-1,3-Dichloropropene	0.00		0	N.D.		
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
50) Toluene	0.00		0	N.D.	d	
51] 1,1,2-Trichloroethane	15.98	83	61	0.012	ppbv	91
52) 2-Hexanone	0.00		0	N.D.		
53) Tetrachloroethene	0.00		0	N.D.	d	
54] Dibromochloromethane	16.76	129	87	0.010	ppbv	95
55] 1,2-Dibromoethane (EDB)	17.01	107	109m	0.013	ppbv	
57) Chlorobenzene	0.00		0	N.D.		
58] Ethylbenzene	18.53	91	169	0.012	ppbv	98
59] 1,1,2,2-Tetrachloroethane	19.13	83	148	0.013	ppbv	94
60) Nonane	0.00		0	N.D.		
61) Isopropylbenzene	0.00		0	N.D.		
62) 2-Chlorotoluene	0.00		0	N.D.		
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.		
65) m,p-Xylene	0.00		0	N.D.	d	
66) o-Xylene	0.00		0	N.D.	d	
67) Styrene	0.00		0	N.D.		
68) Bromoform	0.00		0	N.D.		
70] Benzyl chloride	20.95	91	70	0.010	ppbv	95
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.		
73) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
74) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
75) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
77) Naphthalene	0.00		0	N.D.	d	
78) Hexachlorobutadiene	0.00		0	N.D.	d	

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM57\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCM57 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-3.48#
4 TMP	Chloromethane	-1.000	0.000	0.0	0	-3.69#
5 TMP	F-114	-1.000	0.000	0.0	0	-3.88#
6 TMP	Vinyl chloride	-1.000	0.000	0.0	0	-4.01#
7 TMP	1,3-Butadiene	-1.000	0.000	0.0	0	-4.21#
8 TMP	Butane	-1.000	0.000	0.0	0	-4.28#
9 TMP	Bromomethane	-1.000	0.000	0.0	0	-4.56#
10 TMP	Chloroethane	-1.000	0.000	0.0	0	-4.80#
11 TMP	Vinyl bromide	-1.000	0.000	0.0	0	-5.26#
12 TMP	Ethanol	-1.000	0.000	0.0	0	-4.92#
13 TMP	Acrolein	-1.000	0.000	0.0	0	-5.38#
14 TMP	Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.80#
16 TMP	Acetone	-1.000	0.000	0.0	0	-5.54#
17 TMP	2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP	1,1-Dichloroethene	-1.000	0.000	0.0	0	-6.65#
19 TMP	trans-1,2-Dichloroethene	-1.000	0.000	0.0	0	-8.07#
20 TMP	Methylene chloride	-1.000	0.000	0.0	0	-6.78#
21 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP	3-Chloropropene	-1.000	0.000	0.0	0	-6.93#
23 TMP	CFC-113	-1.000	0.000	0.0	0	-7.15#
24 TMP	Carbon disulfide	-1.000	0.000	0.0	0	-7.25#
25 TMP	Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.41#
26 TMP	Vinyl acetate	-1.000	0.000	0.0	0	-8.51#
27 TMP	1,1-Dichloroethane	-1.000	0.000	0.0	0	-8.33#
28 TMP	cis-1,2-Dichloroethene	-1.000	0.000	0.0	0	-9.60#
29 TMP	Hexane	-1.000	0.000	0.0	0	-9.99#
30 TMP	Chloroform	0.010	0.011	-10.0	100	0.00
31 TMP	Ethyl acetate	-1.000	0.000	0.0	0	-9.90#
32 TMP	Tetrahydrofuran	-1.000	0.000	0.0	0	-10.72#
33 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.88#
34 TMP	1,2-Dichloroethane (EDC)	0.010	0.013	-30.0	101	0.00
35 TMP	1,1,1-Trichloroethane	-1.000	0.000	0.0	0	-11.79#
36 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-12.83#
37 TMP	Benzene	-1.000	0.000	0.0	0	-12.58#
38 TMP	Cyclohexane	-1.000	0.000	0.0	0	-13.04#
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.010	0.012	-20.0	94	0.00
41 TMP	1,4-Dioxane	-1.000	0.000	0.0	0	-14.07#
42 TMP	2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.21#
43 TMP	Methyl methacrylate	-1.000	0.000	0.0	0	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.53#
45 TMP Bromodichloromethane	0.010	0.011	-10.0	100	0.00
46 TMP Trichloroethene	0.010	0.012	-20.0	100	0.00
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.18#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.21#
49 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.78#
50 TMP Toluene	-1.000	0.000	0.0	0	-16.31#
51 TMP 1,1,2-Trichloroethane	0.010	0.012	-20.0	100	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.010	0.010	0.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.010	0.013	-30.0	103	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.010	0.012	-20.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.010	0.013	-30.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.32#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.72#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.33#
65 TMP m,p-Xylene	-1.000	0.000	0.0	0	-18.70#
66 TMP o-Xylene	-1.000	0.000	0.0	0	-19.15#
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.577	4.2	100	0.00
70 TMP Benzyl chloride	0.010	0.010	0.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.81#
73 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-20.99#
74 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-21.05#
75 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-21.41#
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.67#
77 TMP Naphthalene	-1.000	0.000	0.0	0	-23.86#
78 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-24.44#

(#) = Out of Range

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



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.917	0.000#	100.0#	0#	-3.48#
4 TMP Chloromethane	1.713	0.000#	100.0#	0#	-3.69#
5 TMP F-114	4.288	0.000	100.0#	0#	-3.88#
6 TMP Vinyl chloride	1.937	0.000#	100.0#	0#	-4.01#
7 TMP 1,3-Butadiene	1.242	0.000	100.0#	0#	-4.21#
8 TMP Butane	2.483	0.000	100.0#	0#	-4.28#
9 TMP Bromomethane	1.711	0.000#	100.0#	0#	-4.56#
10 TMP Chloroethane	0.689	0.000#	100.0#	0#	-4.80#
11 TMP Vinyl bromide	1.725	0.000	100.0#	0#	-5.26#
12 TMP Ethanol	0.543	0.000	100.0#	0#	-4.92#
13 TMP Acrolein	0.729	0.000	100.0#	0#	-5.38#
14 TMP Pentane	2.839	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.796	0.000#	100.0#	0#	-5.80#
16 TMP Acetone	0.670	0.000#	100.0#	0#	-5.54#
17 TMP 2-Propanol	2.930	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.641	0.000#	100.0#	0#	-6.65#
19 TMP trans-1,2-Dichloroethene	1.625	0.000	100.0#	0#	-8.07#
20 TMP Methylene chloride	1.604	0.000#	100.0#	0#	-6.78#
21 TMP t-Butyl alcohol (TBA)	2.544	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.076	0.000	100.0#	0#	-6.93#
23 TMP CFC-113	3.525	0.000	100.0#	0#	-7.15#
24 TMP Carbon disulfide	5.324	0.000	100.0#	0#	-7.25#
25 TMP Methyl t-butyl ether (MTBE)	3.467	0.000#	100.0#	0#	-8.41#
26 TMP Vinyl acetate	3.863	0.000#	100.0#	0#	-8.51#
27 TMP 1,1-Dichloroethane	3.597	0.000#	100.0#	0#	-8.33#
28 TMP cis-1,2-Dichloroethene	1.774	0.000#	100.0#	0#	-9.60#
29 TMP Hexane	2.181	0.000	100.0#	0#	-9.99#
30 TMP Chloroform	4.186	4.770	-14.0	100	0.00
31 TMP Ethyl acetate	3.859	0.000	100.0#	0#	-9.90#
32 TMP Tetrahydrofuran	1.822	0.000	100.0#	0#	-10.72#
33 TMP 2-Butanone (MEK)	0.597	0.000	100.0#	0#	-8.88#
34 TMP 1,2-Dichloroethane (EDC)	2.835	3.662	-29.2	101	0.00
35 TMP 1,1,1-Trichloroethane	3.417	0.000#	100.0#	0#	-11.79#
36 TMP Carbon tetrachloride	3.530	0.000#	100.0#	0#	-12.83#
37 TMP Benzene	5.604	0.000#	100.0#	0#	-12.58#
38 TMP Cyclohexane	1.400	0.000	100.0#	0#	-13.04#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.735	-18.7	94	0.00
41 TMP 1,4-Dioxane	0.233	0.000	100.0#	0#	-14.07#
42 TMP 2,2,4-Trimethylpentane	1.831	0.000	100.0#	0#	-14.21#
43 TMP Methyl methacrylate	0.534	0.000	100.0#	0#	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072517.D  
 Acq On : 25 Jul 2023 10:36 pm  
 Operator : bat  
 Sample : 0.01 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:55:46 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.000	100.0#	0#	-14.53#
45 TMP Bromodichloromethane	1.004	1.114	-11.0	100	0.00
46 TMP Trichloroethene	0.642	0.802	-24.9	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.000	100.0#	0#	-15.18#
48 TMP 4-Methyl-2-pentanone	0.041	0.000	100.0#	0#	-15.21#
49 TMP trans-1,3-Dichloropropene	0.606	0.000	100.0#	0#	-15.78#
50 TMP Toluene	0.761	0.000	100.0#	0#	-16.31#
51 TMP 1,1,2-Trichloroethane	0.579	0.679	-17.3	100	0.00
52 TMP 2-Hexanone	0.834	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.450	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.923	0.969	-5.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	1.214	-33.3#	103	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.800	2.196	-22.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.923	-27.0	100	0.00
60 TMP Nonane	0.879	0.000	100.0#	0#	-19.32#
61 TMP Isopropylbenzene	1.553	0.000	100.0#	0#	-19.72#
62 TMP 2-Chlorotoluene	0.402	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.242	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.485	0.000	100.0#	0#	-20.33#
65 TMP m,p-Xylene	0.607	0.000#	100.0#	0#	-18.70#
66 TMP o-Xylene	0.554	0.000#	100.0#	0#	-19.15#
67 TMP Styrene	0.767	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	0.895	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.741	0.710	4.2	100	0.00
70 TMP Benzyl chloride	0.931	0.909	2.4	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.164	0.000	100.0#	0#	-20.81#
73 TMP 1,3-Dichlorobenzene	0.972	0.000	100.0#	0#	-20.99#
74 TMP 1,4-Dichlorobenzene	0.900	0.000	100.0#	0#	-21.05#
75 TMP 1,2-Dichlorobenzene	0.936	0.000	100.0#	0#	-21.41#
76 TMP 1,2,4-Trichlorobenzene	0.590	0.000	100.0#	0#	-23.67#
77 TMP Naphthalene	1.053	0.000	100.0#	0#	-23.86#
78 TMP Hexachlorobutadiene	0.831	0.000	100.0#	0#	-24.44#

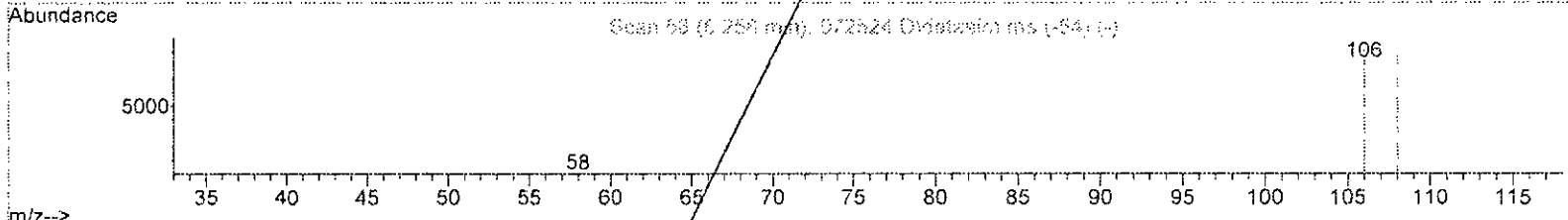
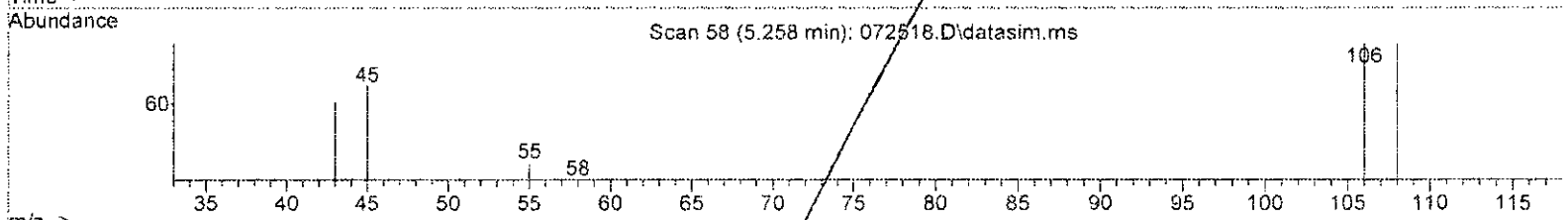
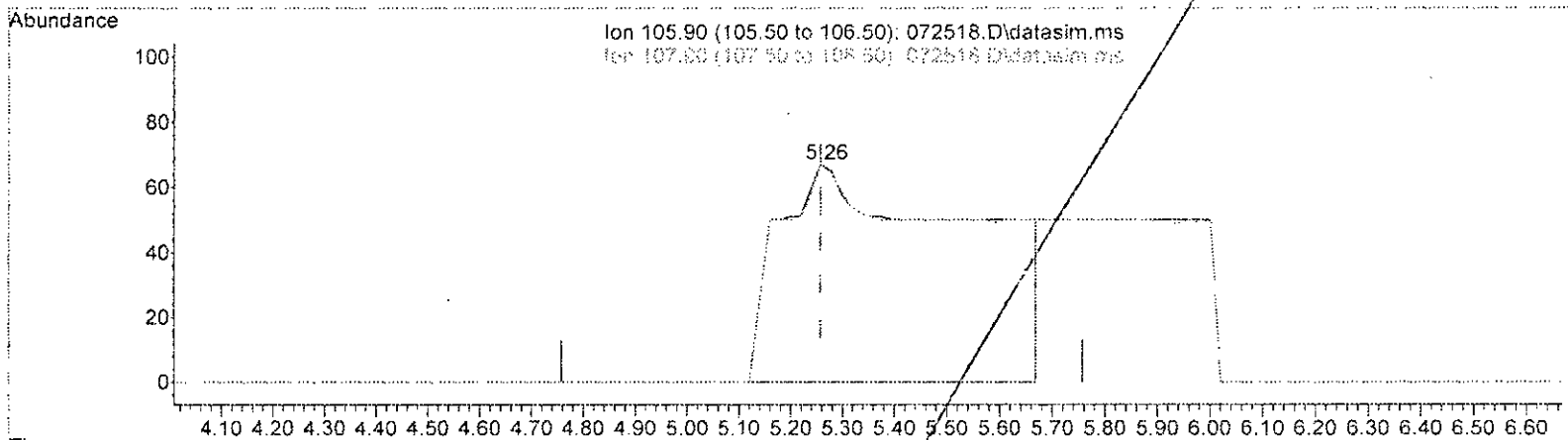
(#) = Out of Range

SPCC's out = 24 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 0.493 ppbv

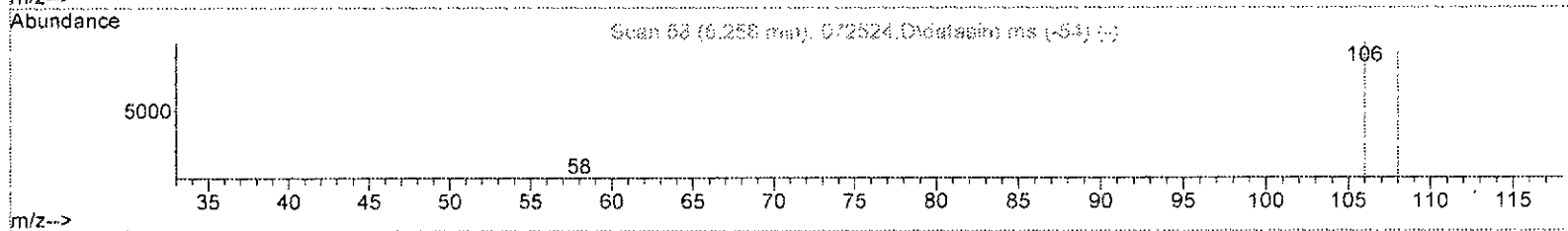
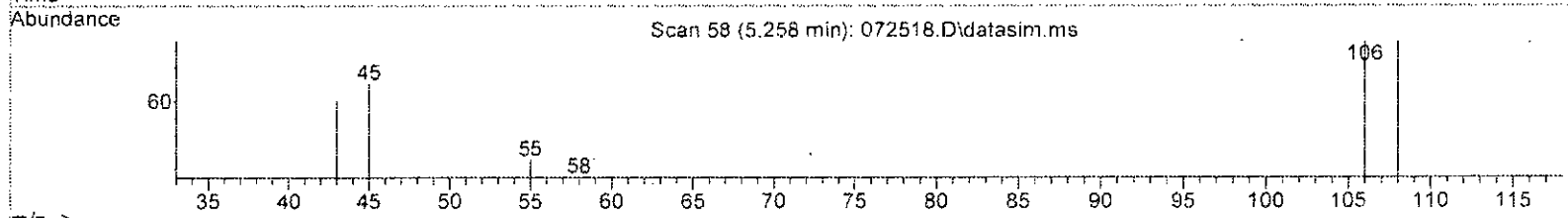
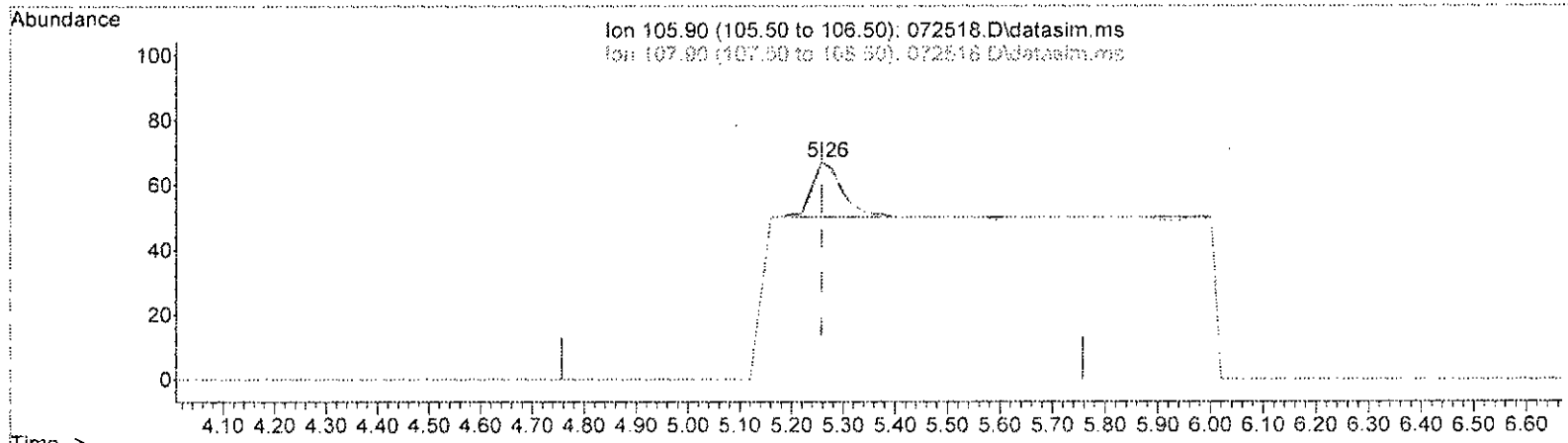
response	1776	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	86.43
0.00	0.00	0.00
0.00	0.00	0.00

7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv TO15 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072518.D\data.ms

(11) Vinyl bromide (TMP)  
 5.258min (-0.000) 0.019 ppbv m

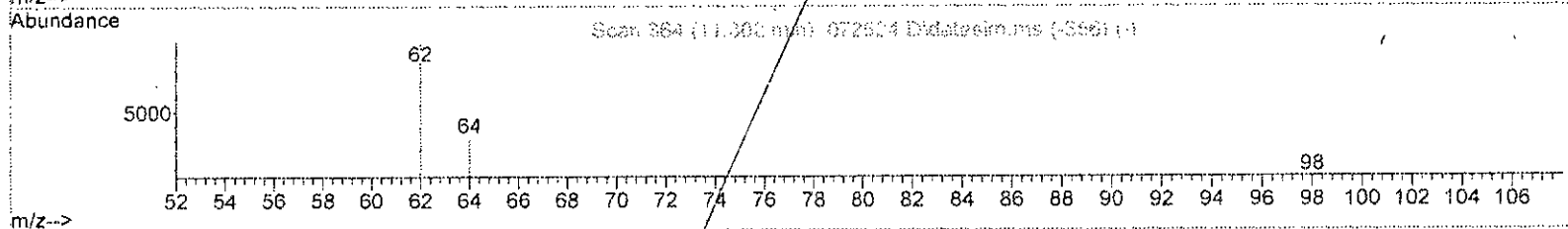
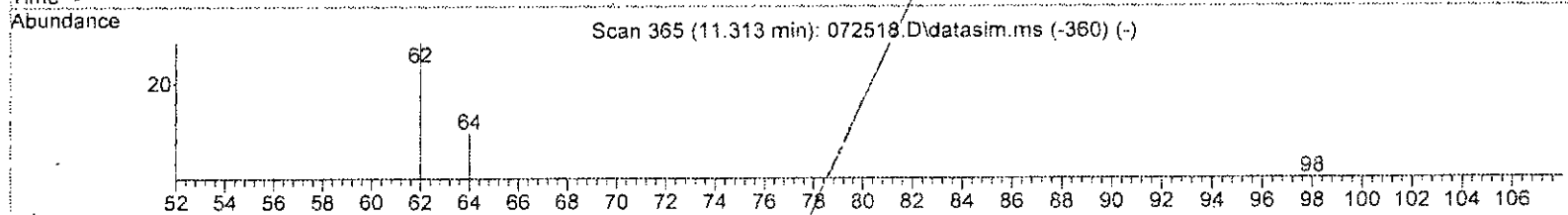
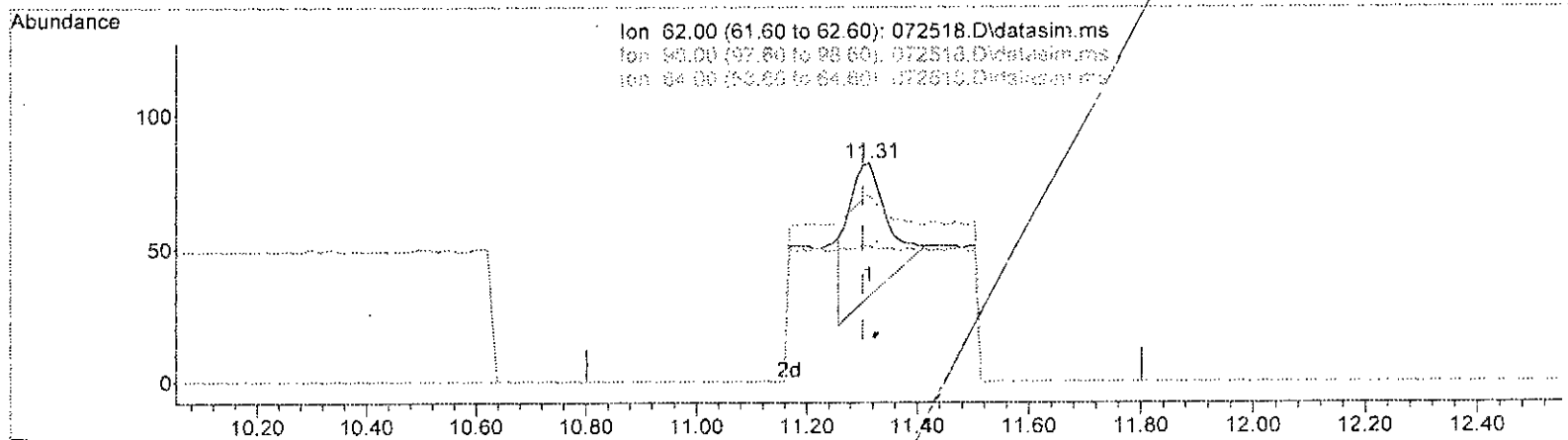
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	2257.35#
0.00	0.00	0.00
0.00	0.00	0.00

Handwritten signature: 7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\072ST015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.313min (+ 0.011) 0.043 ppbv

response 252

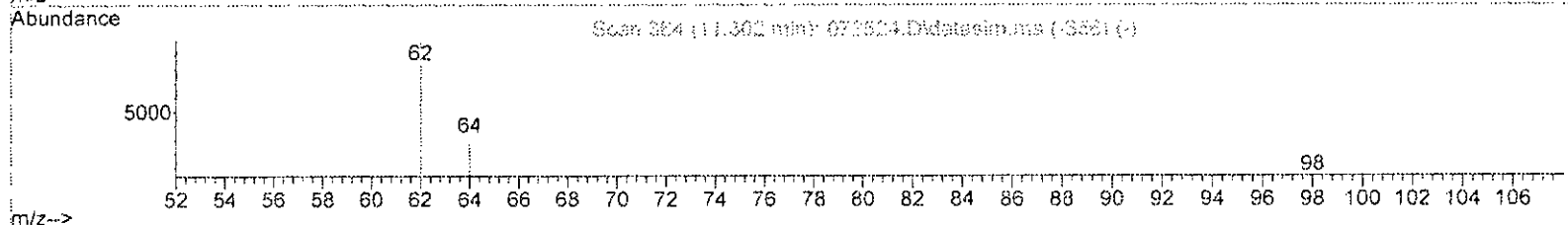
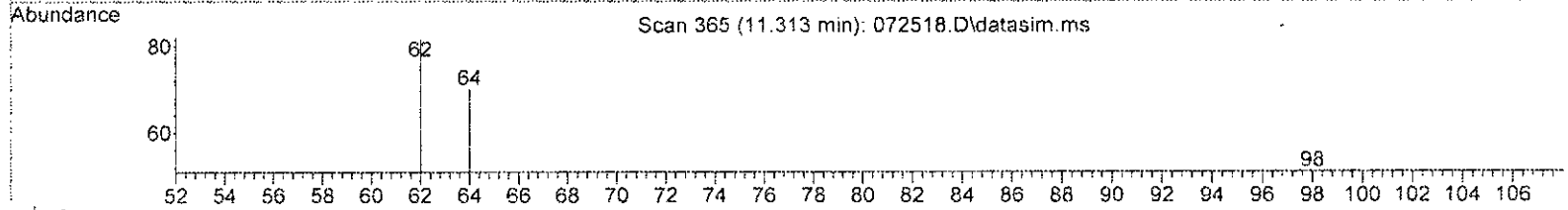
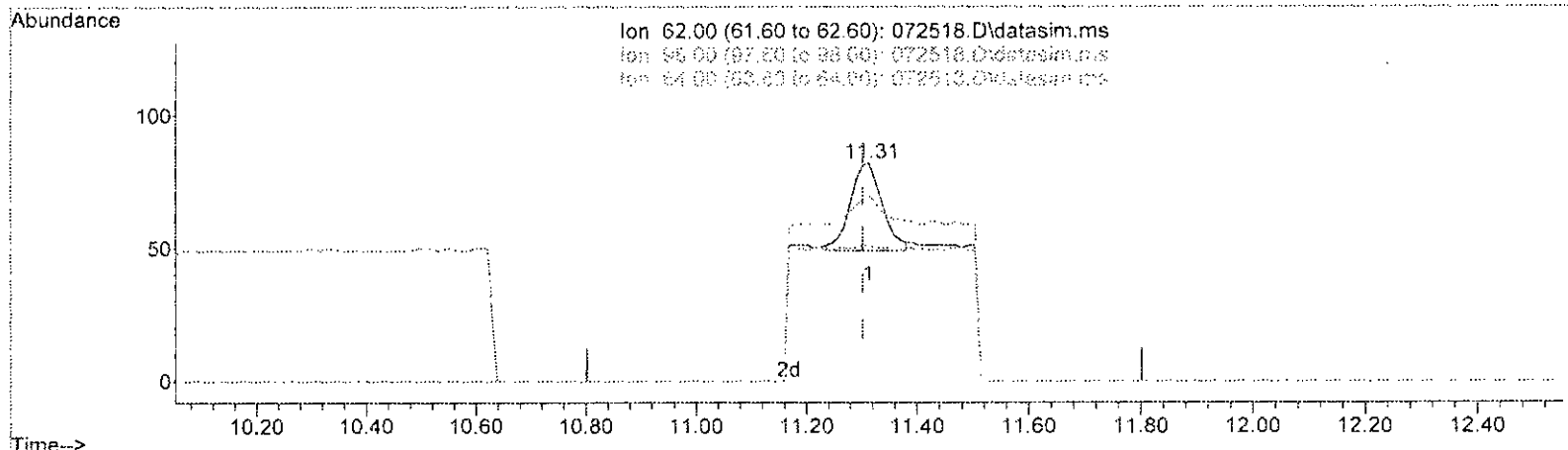
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	3.23
64.00	33.00	35.48
0.00	0.00	0.00

*Handwritten signature:* U / 7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.313min (+ 0.011) 0.022 ppbv m

response 131

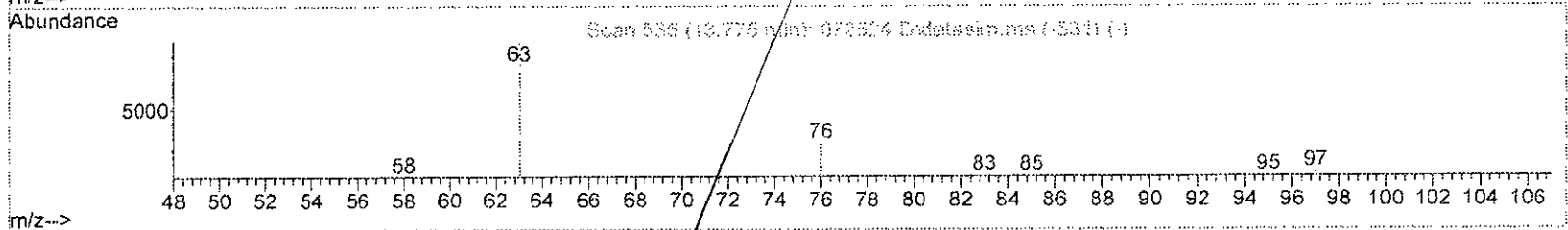
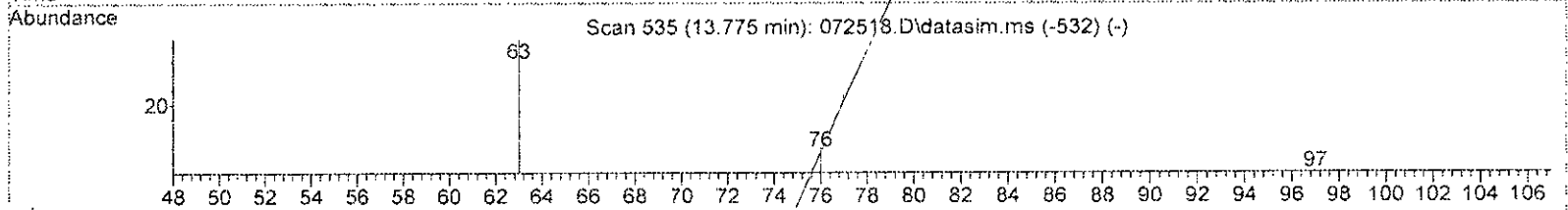
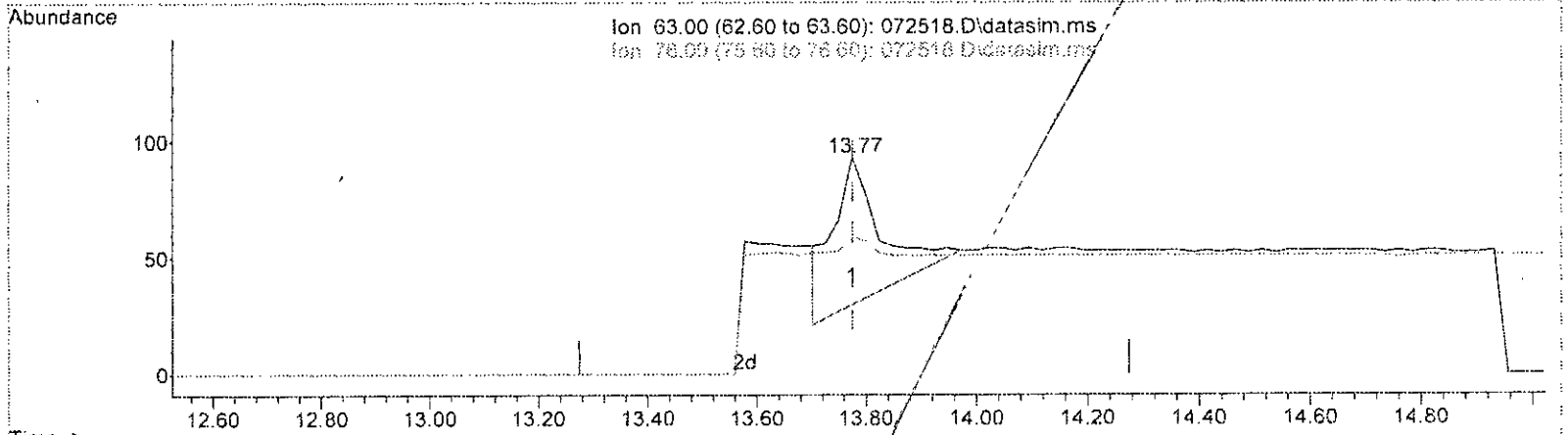
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	62.20#
64.00	33.00	85.37#
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(40) 1,2-Dichloropropane (TMP)  
 13.775min (-0.000) 0.069 ppbv  
 response 391

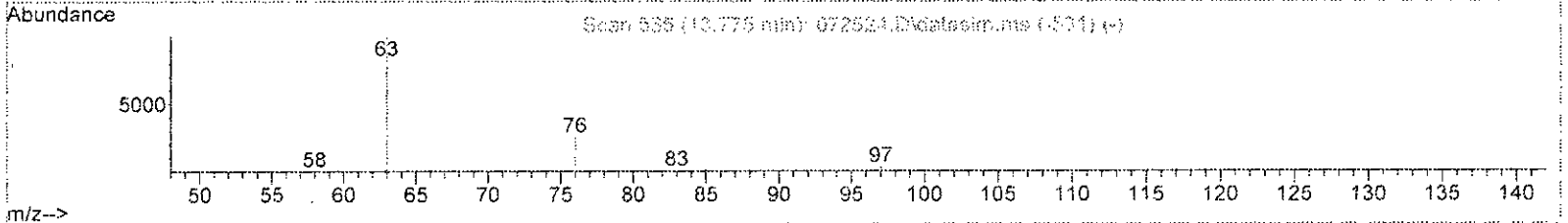
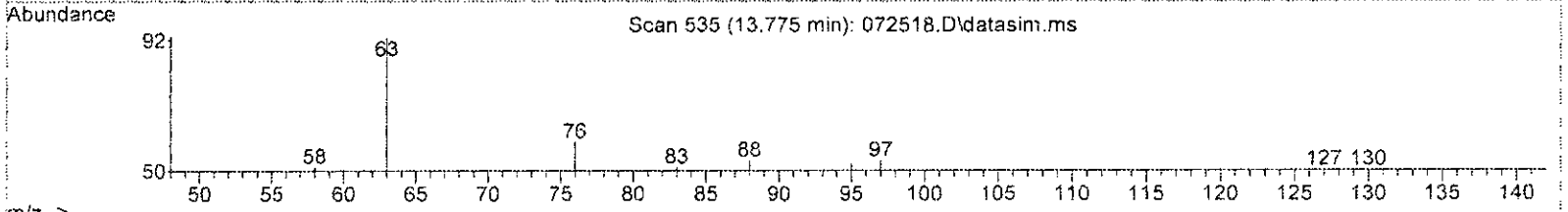
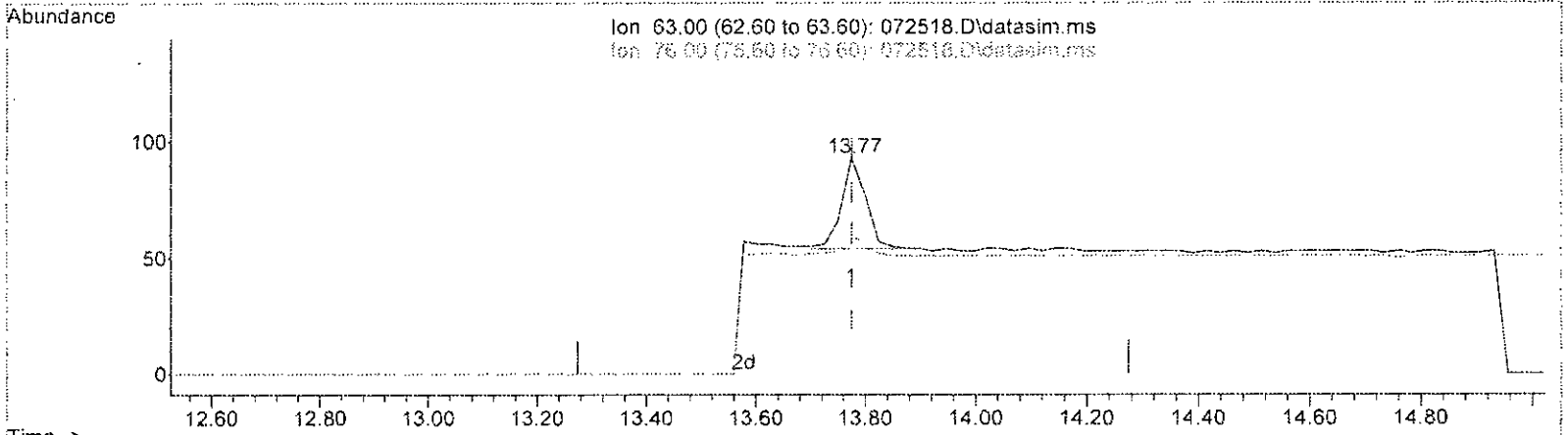
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	20.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W. H. H. / 2/21/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.021 ppbv m

response	118	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	63.44#
0.00	0.00	0.00
0.00	0.00	0.00

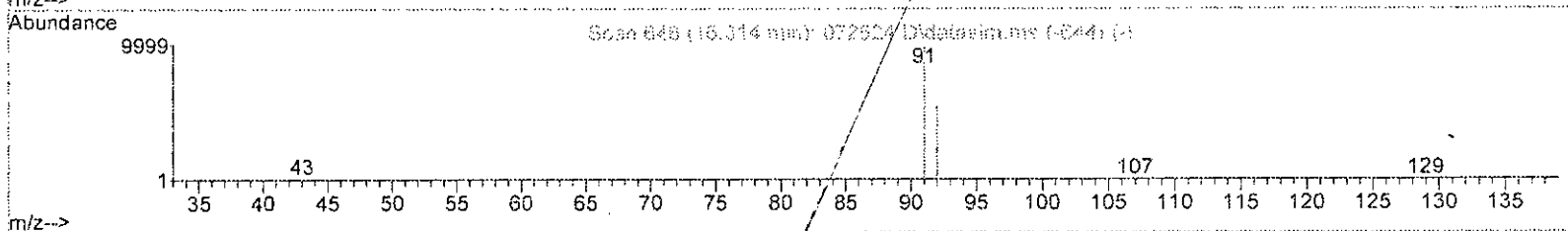
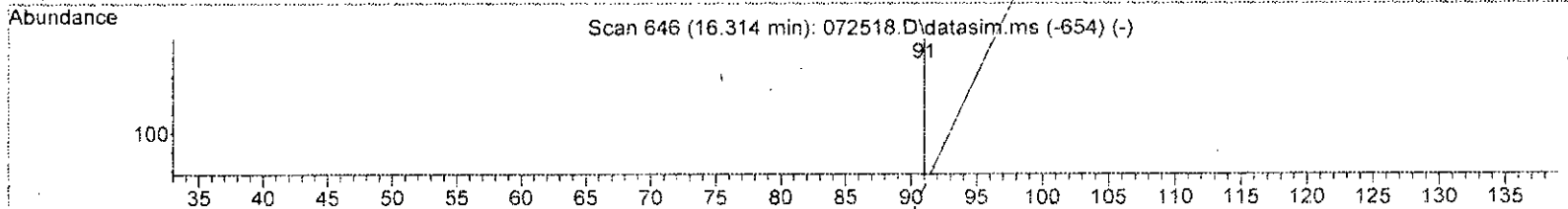
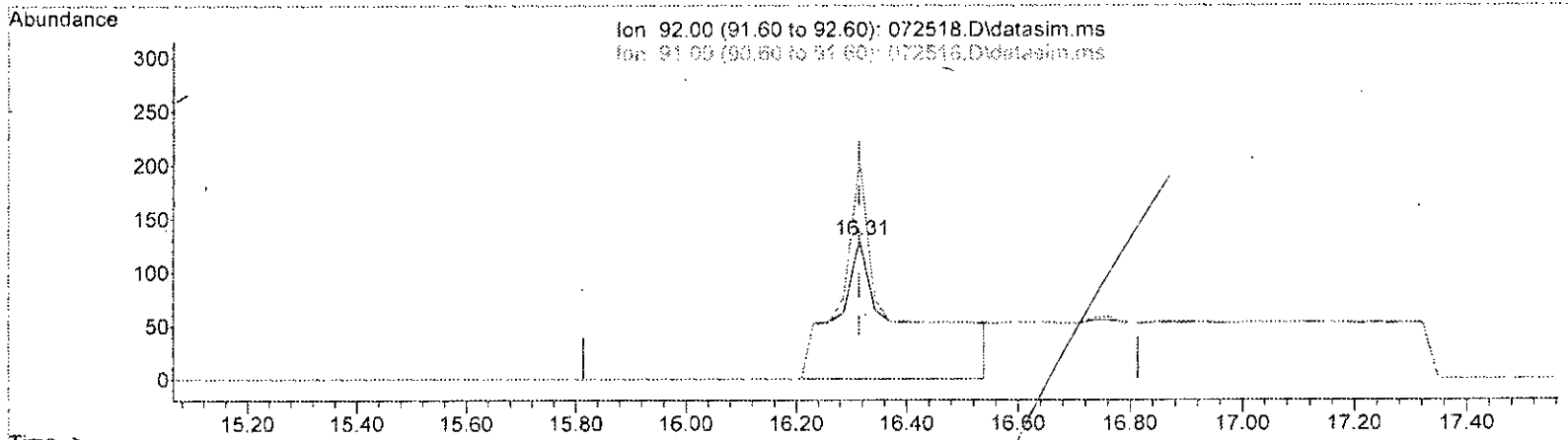
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(50) Toluene (TME)

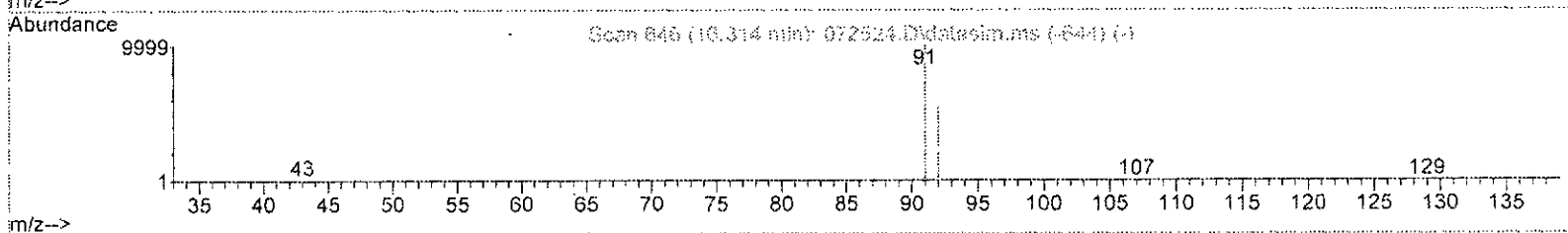
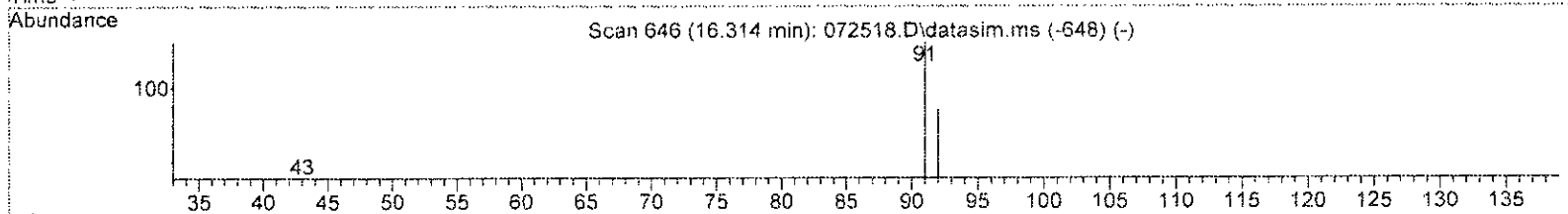
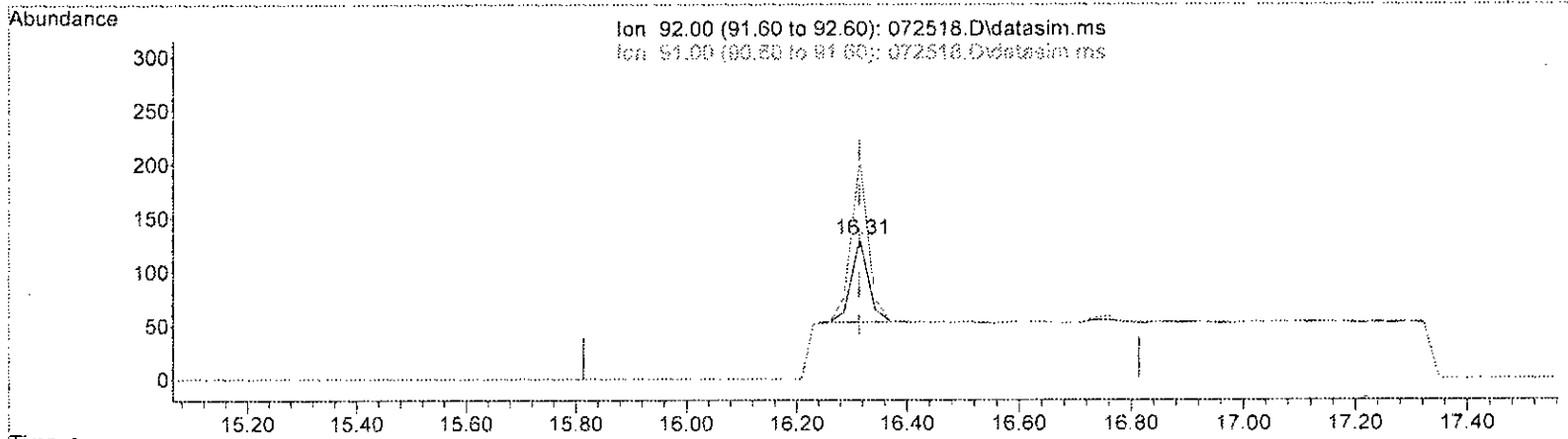
16.314min (+ 0.000)	0.171 ppbv	
response	1185	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	156.15#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(50) Toluene (TMP)

16.314min (+ 0.000) 0.024 ppbv m

response 166

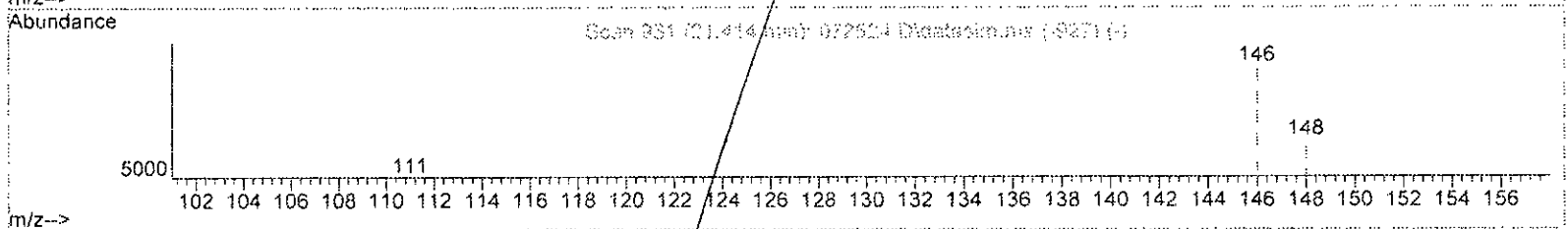
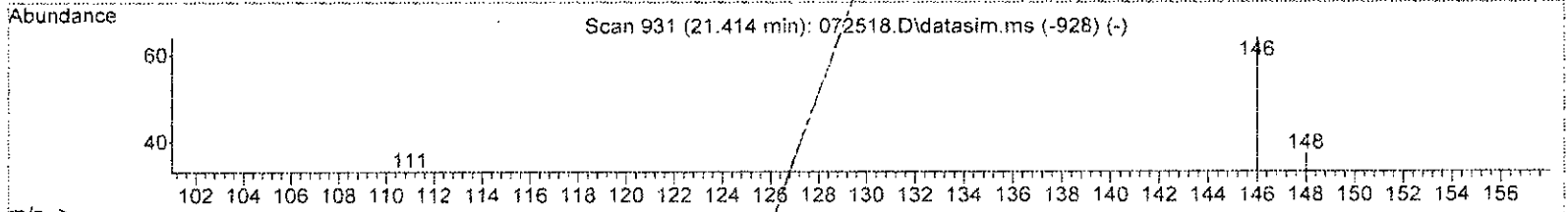
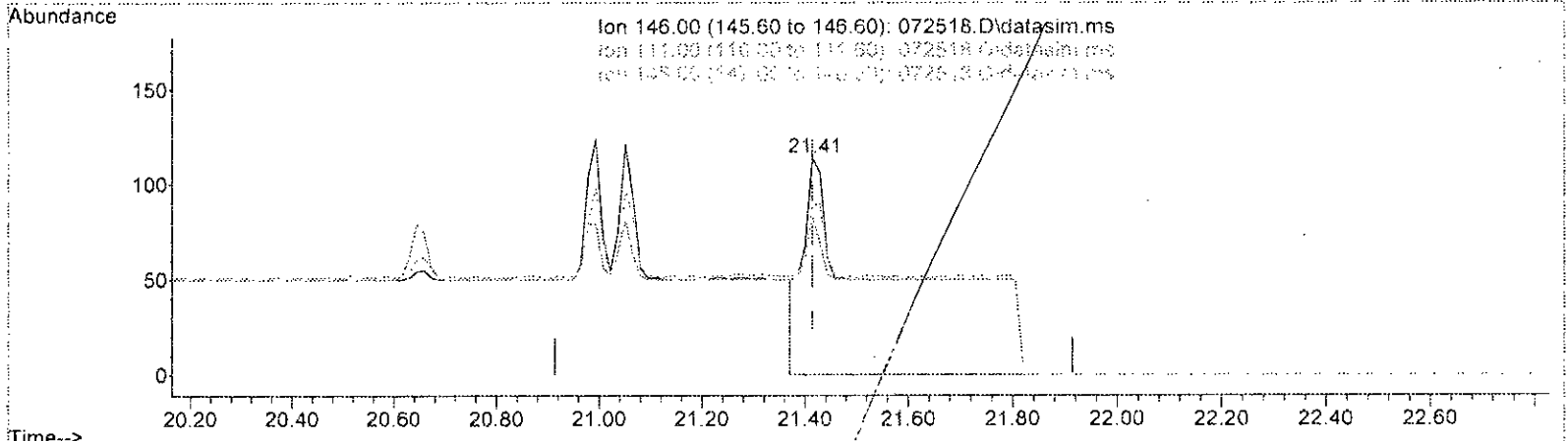
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	156.15#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*  
 7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.414min (-0.000) 0.200 ppbv

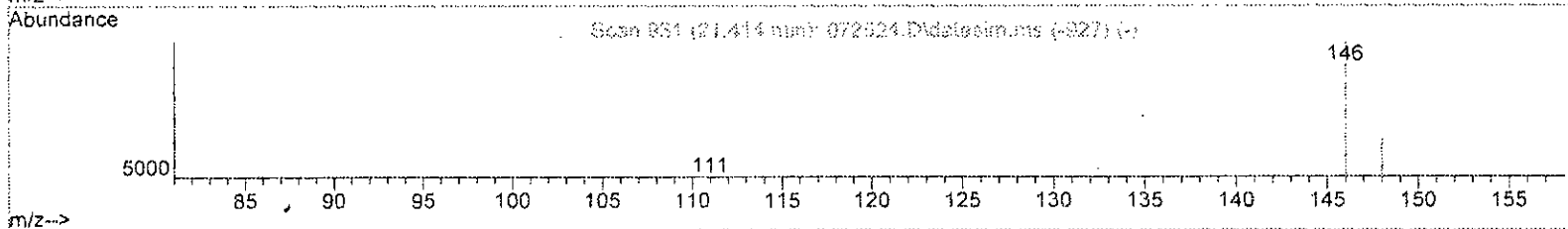
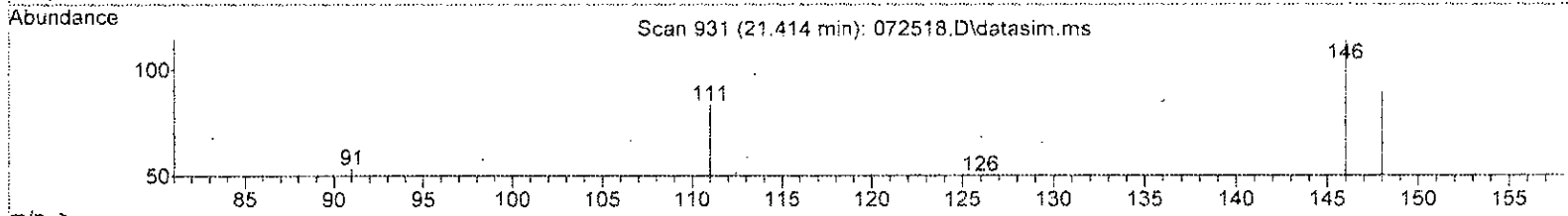
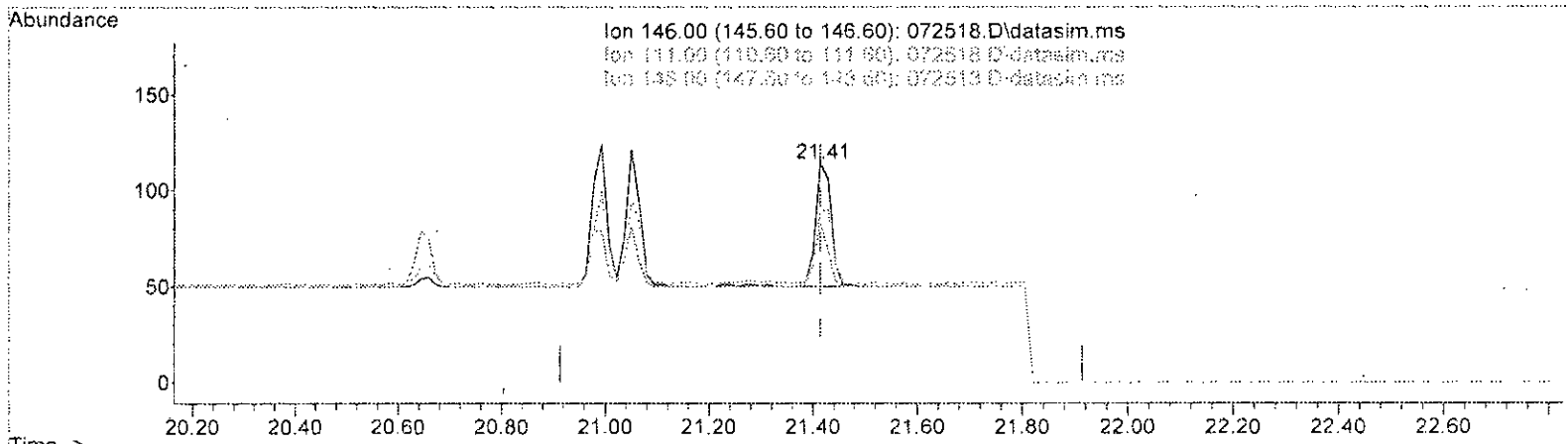
response	1419	
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	42.90	72.81
148.00	63.20	78.07
0.00	0.00	0.00

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072518.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.414min (-0.000) 0.019 ppbv m

response 132

Ion	Exp%	Act%
146.00	100.00	100.00
111.00	42.90	72.81
148.00	63.20	78.07
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	20898	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	91280	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	75942	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	55626	9.885	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D.	
3) Dichlorodifluoromethane	0.00		0		N.D.	
4) Chloromethane	0.00		0		N.D. d	
5) F-114	0.00		0		N.D.	
6] Vinyl chloride	4.01	62	76	0.019	ppbv	90
7] 1,3-Butadiene	4.21	54	43	0.017	ppbv #	95
8) Butane	0.00		0		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11] Vinyl bromide	5.26	106	68m	0.019	ppbv	
12) Ethanol	0.00		0		N.D.	
13) Acrolein	0.00		0		N.D.	
14) Pentane	0.00		0		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D.	
16) Acetone	0.00		0		N.D.	
17) 2-Propanol	0.00		0		N.D. d	
18) 1,1-Dichloroethene	0.00		0		N.D. d	
19) trans-1,2-Dichloroethene	0.00		0		N.D. d	
20) Methylene chloride	0.00		0		N.D.	
21) t-Butyl alcohol (TBA)	0.00		0		N.D.	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	0.00		0		N.D. d	
25) Methyl t-butyl ether (...)	0.00		0		N.D.	
26) Vinyl acetate	0.00		0		N.D.	
27] 1,1-Dichloroethane	8.33	63	156	0.021	ppbv	99
28] cis-1,2-Dichloroethene	9.60	96	89	0.024	ppbv	90
29) Hexane	0.00		0		N.D.	
30] Chloroform	10.07	83	174	0.020	ppbv	98
31) Ethyl acetate	0.00		0		N.D.	
32) Tetrahydrofuran	0.00		0		N.D.	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34] 1,2-Dichloroethane (EDC)	11.31	62	131m	0.022	ppbv	
35] 1,1,1-Trichloroethane	11.79	97	140	0.020	ppbv	94
36] Carbon tetrachloride	12.83	117	143	0.019	ppbv	97
37] Benzene	12.58	78	297	0.025	ppbv	97
38) Cyclohexane	0.00		0		N.D.	
40] 1,2-Dichloropropane	13.77	63	118m	0.021	ppbv	

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

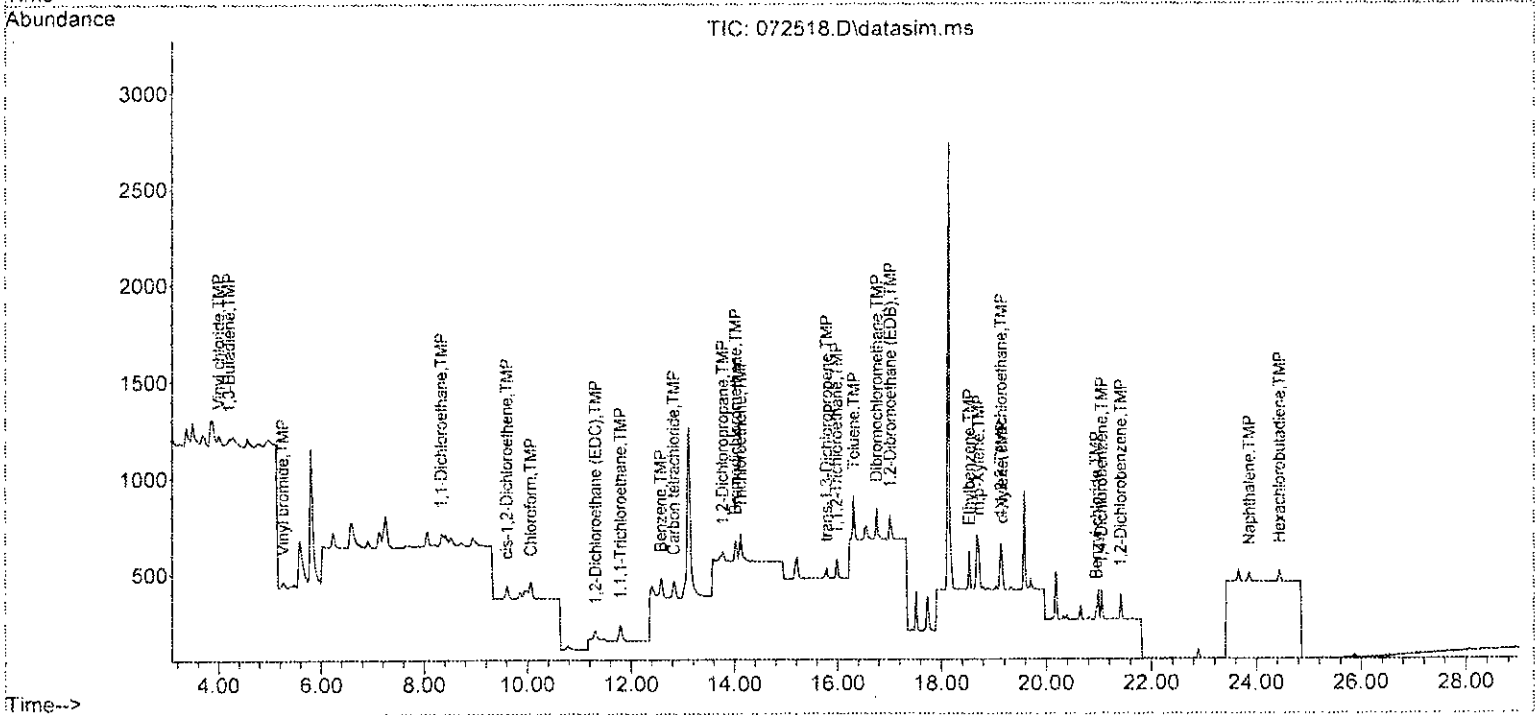
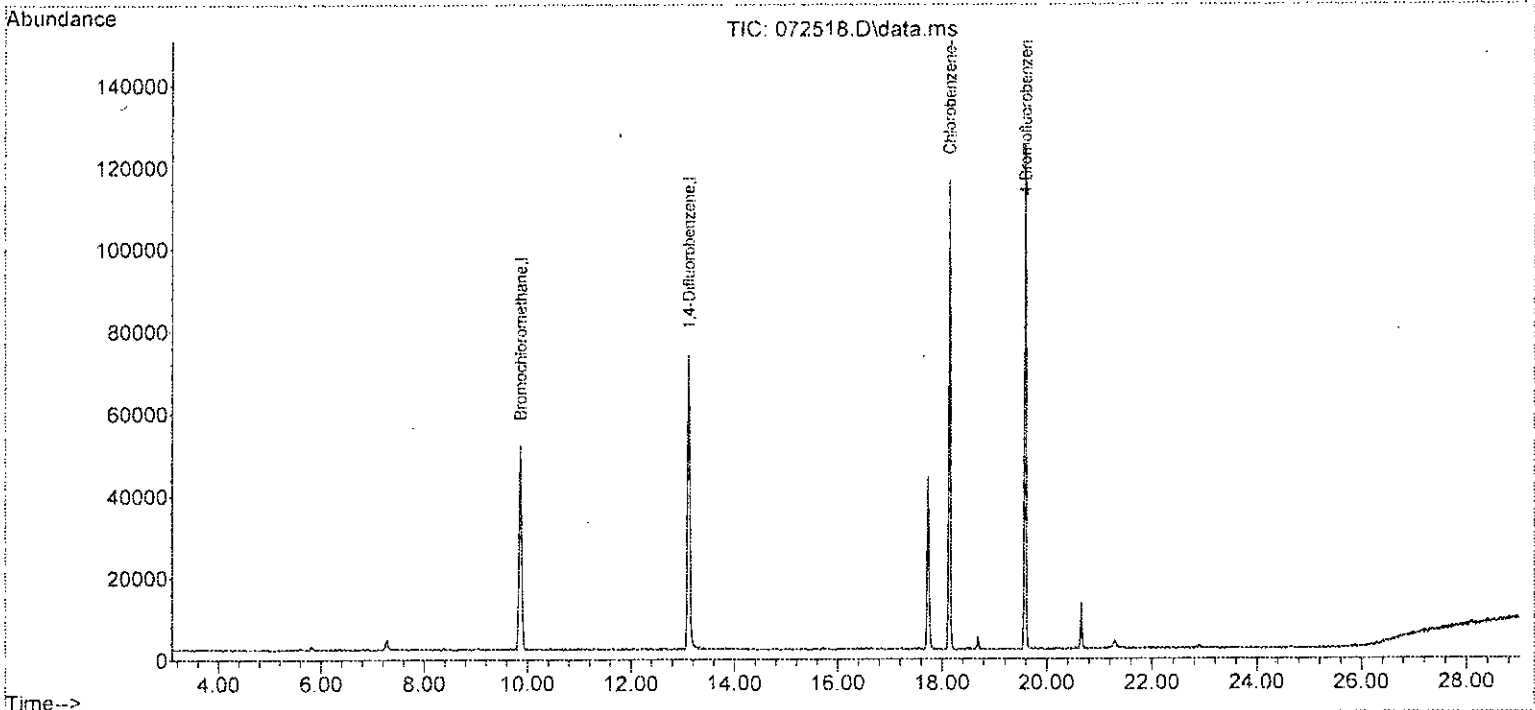
Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	d	
42) 2,2,4-Trimethylpentane	0.00		0	N.D.		
43) Methyl methacrylate	0.00		0	N.D.		
44) Heptane	0.00		0	N.D.		
45] Bromodichloromethane	14.02	83	177	0.019	ppbv	100
46] Trichloroethene	14.12	95	130	0.022	ppbv	92
47) cis-1,3-Dichloropropene	0.00		0	N.D.		
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49] trans-1,3-Dichloropropene	15.78	75	113	0.020	ppbv	98
50] Toluene	16.31	92	166m	0.024	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	105	0.020	ppbv	95
52) 2-Hexanone	0.00		0	N.D.		
53) Tetrachloroethene	0.00		0	N.D.	d	
54] Dibromochloromethane	16.76	129	165	0.020	ppbv	95
55] 1,2-Dibromoethane (EDB)	17.01	107	171	0.021	ppbv	83
57) Chlorobenzene	0.00		0	N.D.		
58] Ethylbenzene	18.53	91	295	0.022	ppbv	98
59] 1,1,2,2-Tetrachloroethane	19.13	83	245	0.021	ppbv	95
60) Nonane	0.00		0	N.D.		
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.		
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	224	0.049	ppbv	97
66] o-Xylene	19.15	106	92	0.022	ppbv	88
67) Styrene	0.00		0	N.D.		
68) Bromoform	0.00		0	N.D.		
70] Benzyl chloride	20.95	91	108	0.015	ppbv	90
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	,d	
73) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
74] 1,4-Dichlorobenzene	21.05	146	128	0.019	ppbv	90
75] 1,2-Dichlorobenzene	21.41	146	132m	0.019	ppbv	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
77] Naphthalene	23.86	128	110	0.014	ppbv	97
78] Hexachlorobutadiene	24.44	225	139	0.022	ppbv	98

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-3.48#
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.69#
5 TMP F-114	-1.000	0.000	0.0	0	-3.88#
6 TMP Vinyl chloride	0.020	0.019	5.0	100	0.00
7 TMP 1,3-Butadiene	0.020	0.017	15.0	100	0.00
8 TMP Butane	-1.000	0.000	0.0	0	-4.28#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.56#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.80#
11 TMP Vinyl bromide	0.020	0.019	5.0	103	0.00
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.92#
13 TMP Acrolein	0.020	0.000	100.0#	0	-5.38#
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.80#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.54#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.020	0.000	100.0#	0	-6.65#
19 TMP trans-1,2-Dichloroethene	0.020	0.000	100.0#	0	-8.07#
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.78#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.93#
23 TMP CFC-113	0.020	0.000	100.0#	0	-7.15#
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.25#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.41#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.51#
27 TMP 1,1-Dichloroethane	0.020	0.021	-5.0	103	0.00
28 TMP cis-1,2-Dichloroethene	0.020	0.024	-20.0	100	0.00
29 TMP Hexane	-1.000	0.000	0.0	0	-9.99#
30 TMP Chloroform	0.020	0.020	0.0	100	0.00
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.90#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.72#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.88#
34 TMP 1,2-Dichloroethane (EDC)	0.020	0.022	-10.0	103	0.01
35 TMP 1,1,1-Trichloroethane	0.020	0.020	0.0	100	0.00
36 TMP Carbon tetrachloride	0.020	0.019	5.0	100	0.00
37 TMP Benzene	0.020	0.025	-25.0	100	0.00
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.04#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.020	0.021	-5.0	100	0.00
41 TMP 1,4-Dioxane	0.020	0.000	100.0#	0	-14.07#
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.21#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.34#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.53#
45 TMP Bromodichloromethane	0.020	0.019	5.0	100	0.00
46 TMP Trichloroethene	0.020	0.022	-10.0	100	0.00
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.18#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.21#
49 TMP trans-1,3-Dichloropropene	0.020	0.020	0.0	100	0.00
50 TMP Toluene	0.020	0.024	-20.0	95	0.00
51 TMP 1,1,2-Trichloroethane	0.020	0.020	0.0	100	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.020	0.020	0.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.020	0.021	-5.0	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.020	0.022	-10.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.020	0.021	-5.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.32#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.72#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.33#
65 TMP m,p-Xylene	0.040	0.049	-22.5	100	0.00
66 TMP o-Xylene	0.020	0.022	-10.0	100	0.00
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.885	1.2	100	0.00
70 TMP Benzyl chloride	0.020	0.015	25.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.81#
73 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-20.99#
74 TMP 1,4-Dichlorobenzene	0.020	0.019	5.0	100	0.00
75 TMP 1,2-Dichlorobenzene	0.020	0.019	5.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.67#
77 TMP Naphthalene	0.020	0.014	30.0	100	0.00
78 TMP Hexachlorobutadiene	0.020	0.022	-10.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : .T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.917	0.000#	100.0#	0#	-3.48#
4 TMP Chloromethane	1.713	0.000#	100.0#	0#	-3.69#
5 TMP F-114	4.288	0.000	100.0#	0#	-3.88#
6 TMP Vinyl chloride	1.937	1.818	6.1	100	0.00
7 TMP 1,3-Butadiene	1.242	1.029	17.1	100	0.00
8 TMP Butane	2.483	0.000	100.0#	0#	-4.28#
9 TMP Bromomethane	1.711	0.000#	100.0#	0#	-4.56#
10 TMP Chloroethane	0.689	0.000#	100.0#	0#	-4.80#
11 TMP Vinyl bromide	1.725	1.627	5.7	103	0.00
12 TMP Ethanol	0.543	0.000	100.0#	0#	-4.92#
13 TMP Acrolein	0.729	0.000	100.0#	0#	-5.38#
14 TMP Pentane	2.839	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.796	0.000#	100.0#	0#	-5.80#
16 TMP Acetone	0.670	0.000#	100.0#	0#	-5.54#
17 TMP 2-Propanol	2.930	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.641	0.000#	100.0#	0#	-6.65#
19 TMP trans-1,2-Dichloroethene	1.625	0.000	100.0#	0#	-8.07#
20 TMP Methylene chloride	1.604	0.000#	100.0#	0#	-6.78#
21 TMP t-Butyl alcohol (TBA)	2.544	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.076	0.000	100.0#	0#	-6.93#
23 TMP CFC-113	3.525	0.000	100.0#	0#	-7.15#
24 TMP Carbon disulfide	5.324	0.000	100.0#	0#	-7.25#
25 TMP Methyl t-butyl ether (MTBE)	3.467	0.000#	100.0#	0#	-8.41#
26 TMP Vinyl acetate	3.863	0.000#	100.0#	0#	-8.51#
27 TMP 1,1-Dichloroethane	3.597	3.732	-3.8	103	0.00
28 TMP cis-1,2-Dichloroethene	1.774	2.129	-20.0	100	0.00
29 TMP Hexane	2.181	0.000	100.0#	0#	-9.99#
30 TMP Chloroform	4.186	4.163	0.5	100	0.00
31 TMP Ethyl acetate	3.859	0.000	100.0#	0#	-9.90#
32 TMP Tetrahydrofuran	1.822	0.000	100.0#	0#	-10.72#
33 TMP 2-Butanone (MEK)	0.597	0.000	100.0#	0#	-8.88#
34 TMP 1,2-Dichloroethane (EDC)	2.835	3.134	-10.5	103	0.01
35 TMP 1,1,1-Trichloroethane	3.417	3.350	2.0	100	0.00
36 TMP Carbon tetrachloride	3.530	3.421	3.1	100	0.00
37 TMP Benzene	5.604	7.106	-26.8	100	0.00
38 TMP Cyclohexane	1.400	0.000	100.0#	0#	-13.04#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.646	-4.4	100	0.00
41 TMP 1,4-Dioxane	0.233	0.000	100.0#	0#	-14.07#
42 TMP 2,2,4-Trimethylpentane	1.831	0.000	100.0#	0#	-14.21#
43 TMP Methyl methacrylate	0.534	0.000	100.0#	0#	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072518.D  
 Acq On : 25 Jul 2023 11:21 pm  
 Operator : bat  
 Sample : 0.02 ppbv T015 69-157-e  
 Misc : T2  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 31 10:56:36 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.000	100.0#	0#	-14.53#
45 TMP Bromodichloromethane	1.004	0.970	3.4	100	0.00
46 TMP Trichloroethene	0.642	0.712	-10.9	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.000	100.0#	0#	-15.18#
48 TMP 4-Methyl-2-pentanone	0.041	0.000	100.0#	0#	-15.21#
49 TMP trans-1,3-Dichloropropene	0.606	0.619	-2.1	100	0.00
50 TMP Toluene	0.761	0.909	-19.4	95	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.575	0.7	100	0.00
52 TMP 2-Hexanone	0.834	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.450	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.923	0.904	2.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.937	-2.9	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.800	1.942	-7.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.613	-6.5	100	0.00
60 TMP Nonane	0.879	0.000	100.0#	0#	-19.32#
61 TMP Isopropylbenzene	1.553	0.000	100.0#	0#	-19.72#
62 TMP 2-Chlorotoluene	0.402	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.242	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.485	0.000	100.0#	0#	-20.33#
65 TMP m,p-Xylene	0.607	0.737	-21.4	100	0.00
66 TMP o-Xylene	0.554	0.606	-9.4	100	0.00
67 TMP Styrene	0.767	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	0.895	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.741	0.732	1.2	100	0.00
70 TMP Benzyl chloride	0.931	0.711	23.6	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.164	0.000	100.0#	0#	-20.81#
73 TMP 1,3-Dichlorobenzene	0.972	0.000	100.0#	0#	-20.99#
74 TMP 1,4-Dichlorobenzene	0.900	0.843	6.3	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.869	7.2	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.000	100.0#	0#	-23.67#
77 TMP Naphthalene	1.053	0.724	31.2#	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.915	-10.1	100	0.00

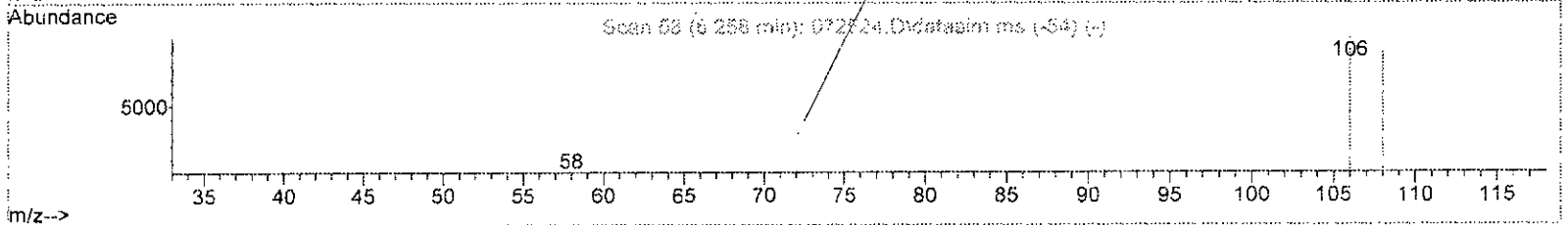
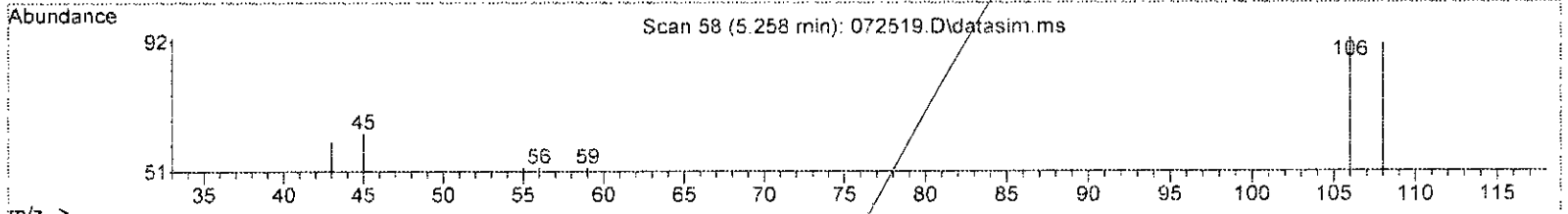
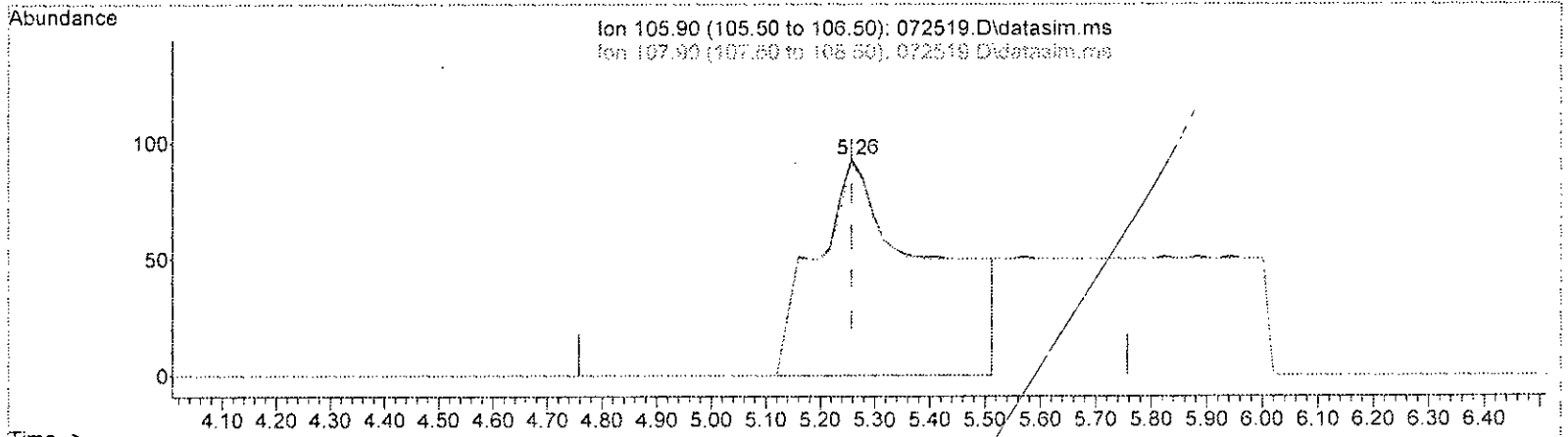
(#) = Out of Range

SPCC's out = 16 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 0.391 ppbv

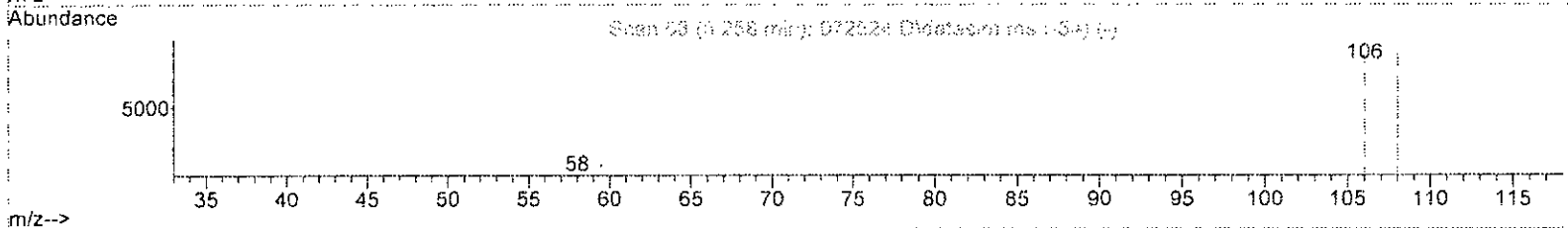
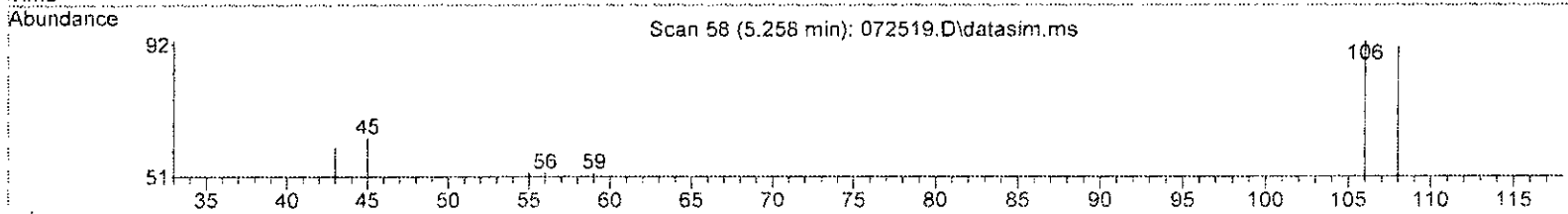
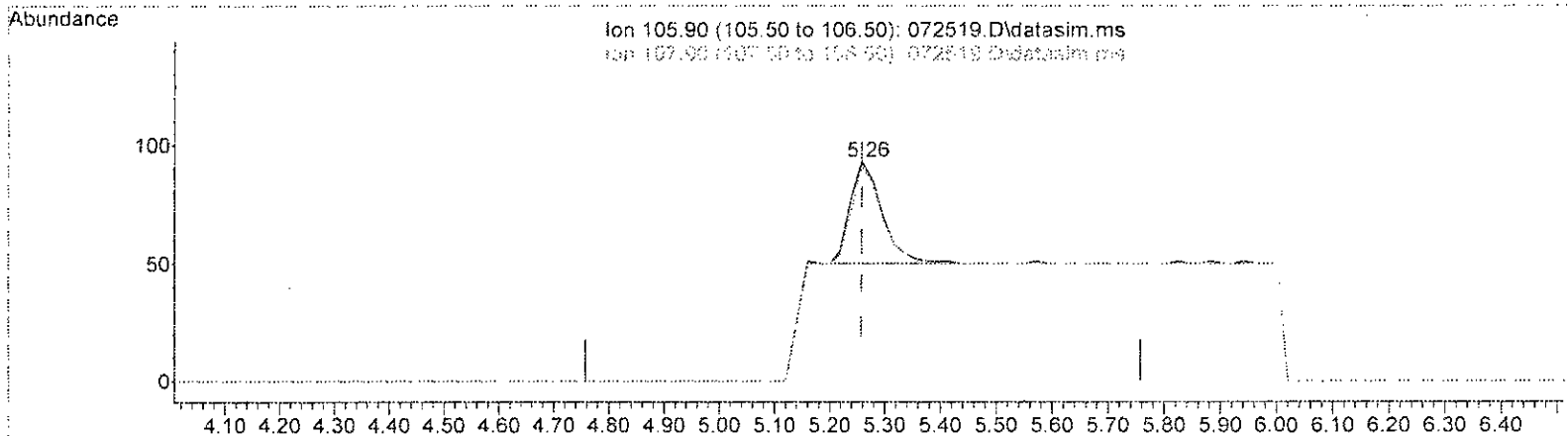
response	1420
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 131.62#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature: M 7/27*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv TO15 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072519.D\data.ms

(11) Vinyl bromide (TMP)  
 5.258min (-0.000) 0.047 ppbv m

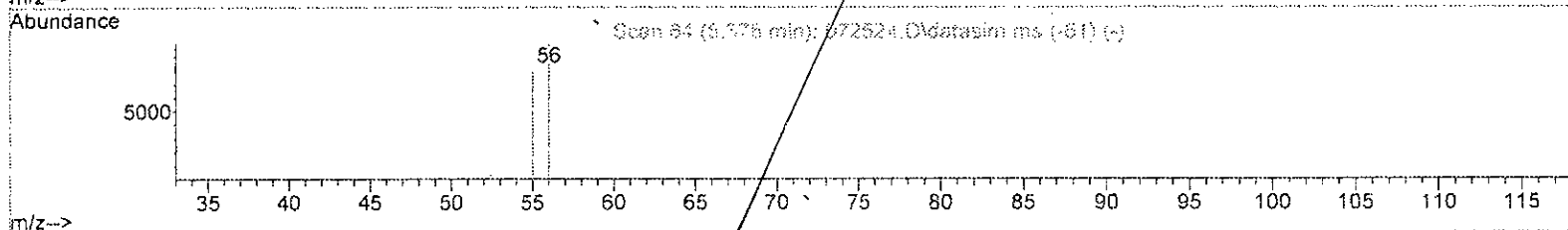
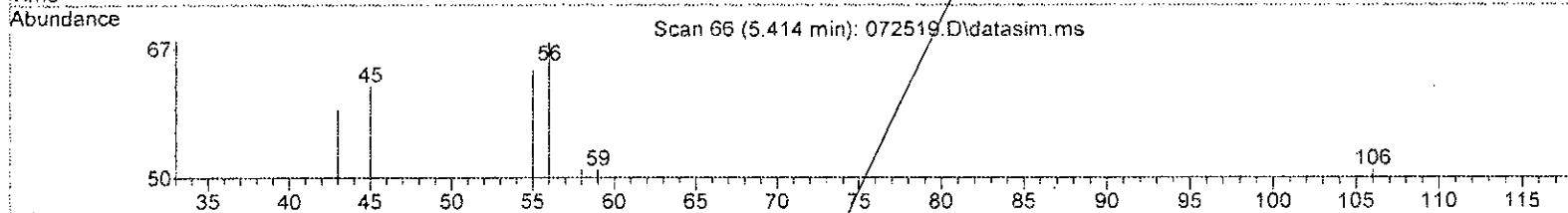
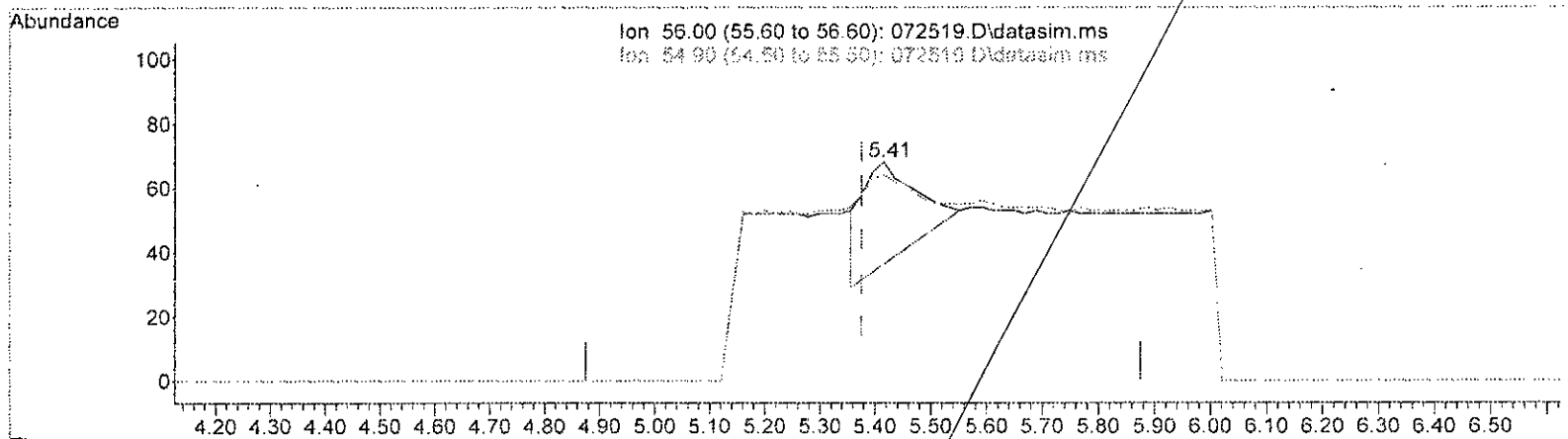
response	170	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	1099.41#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: 7/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(13) Acrolein (TMP)

Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

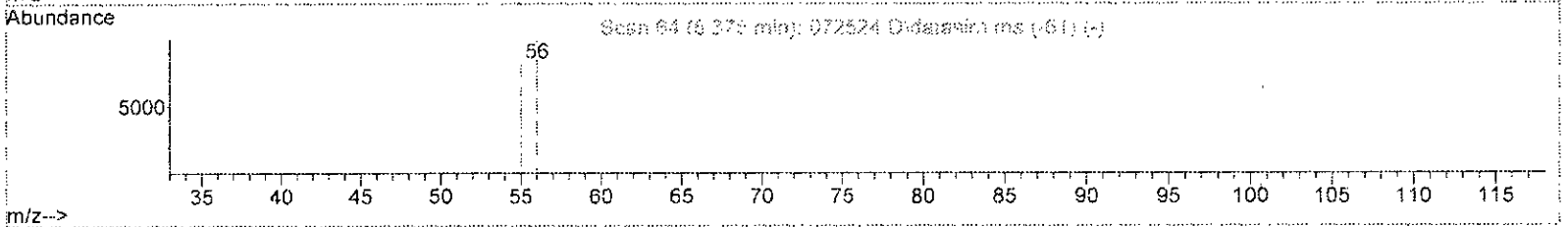
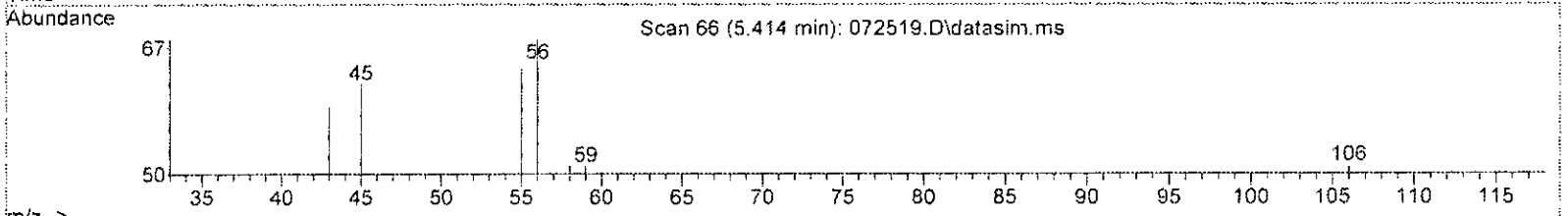
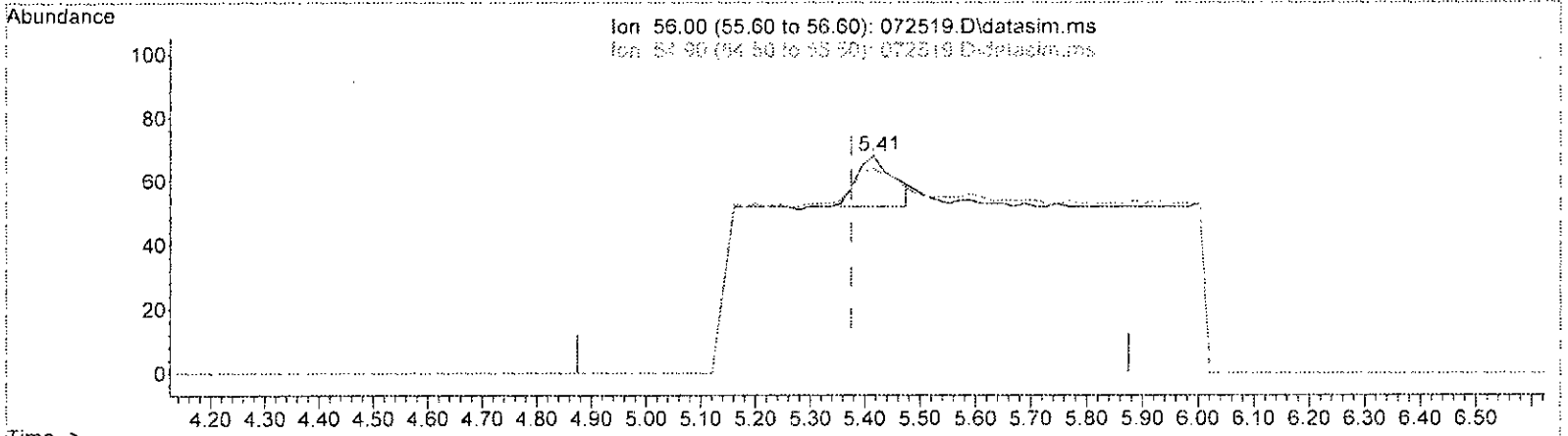
5.414min (+ 0.039) 0.140 ppbv  
 response 215

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(13) Acrolein (TMP)

5.414min (+ 0.039) 0.048 ppbv m

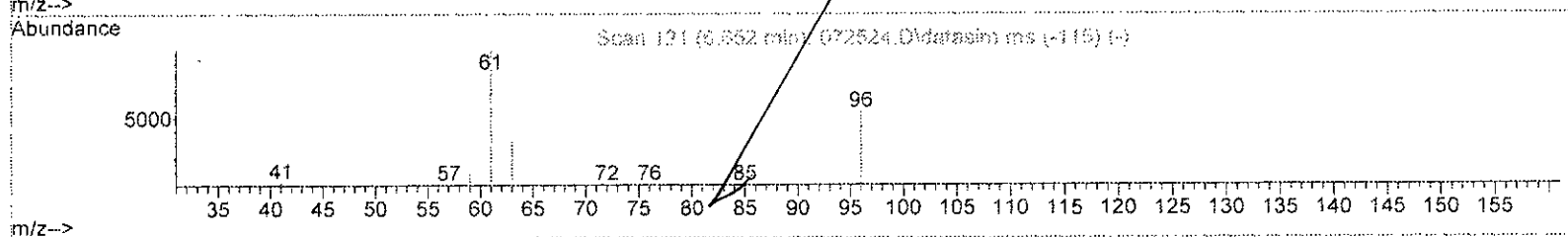
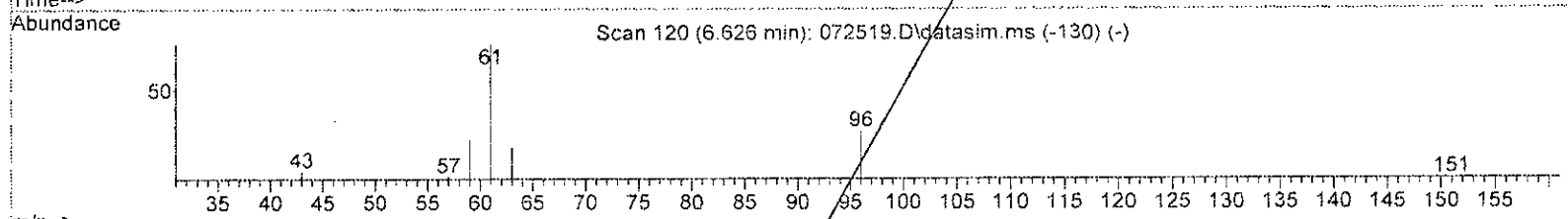
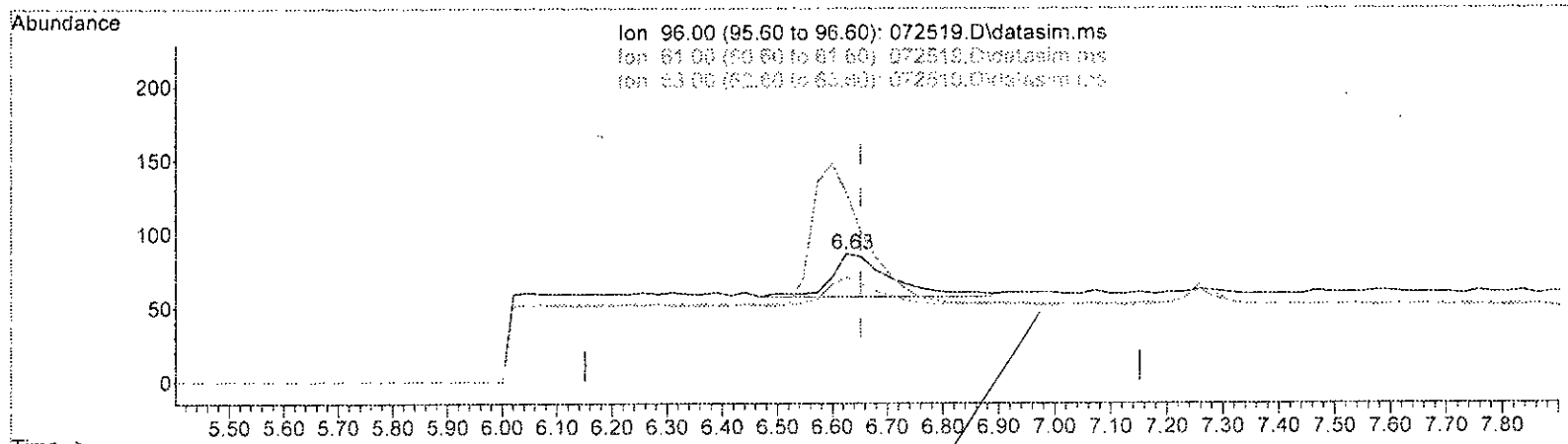
response	73	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	79.45
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(18) 1,1-Dichloroethene (TMP)  
 6.626min (-0.026) 0.063 ppbv  
 response 219

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	265.52#
63.00	62.00	62.07
0.00	0.00	0.00

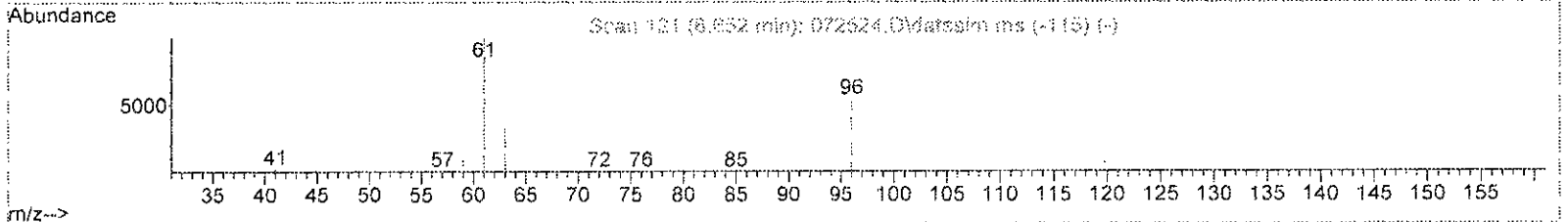
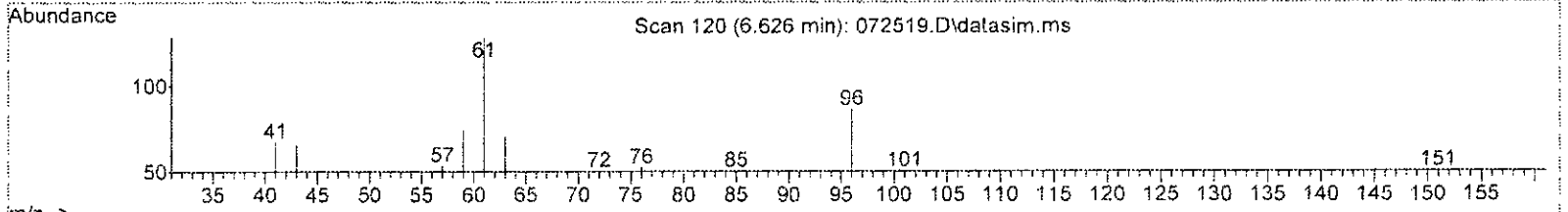
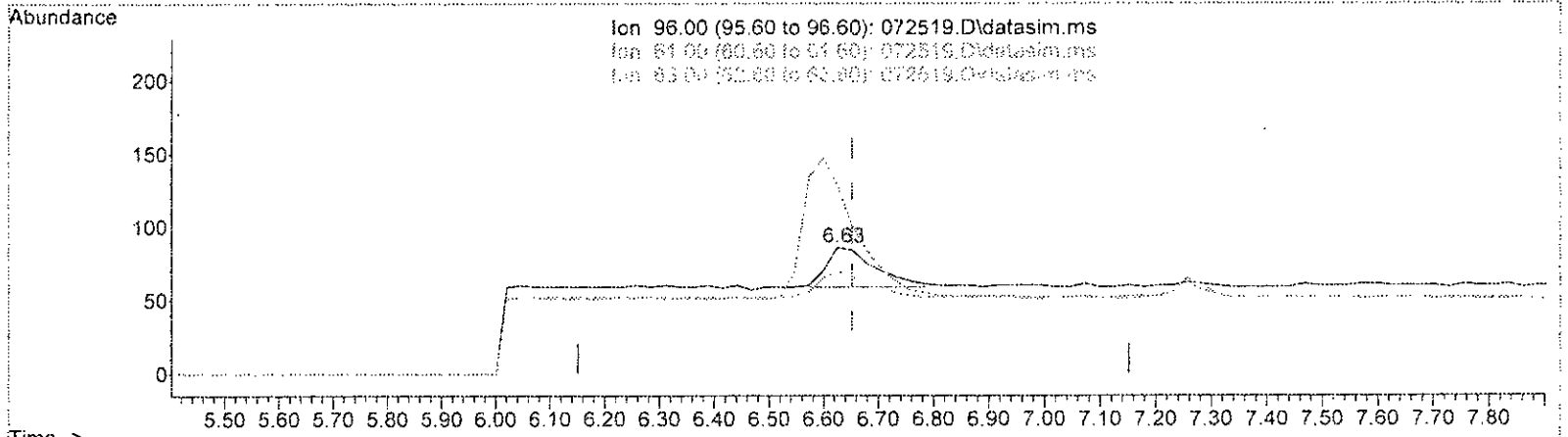
*6/27/23*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(18) 1,1-Dichloroethene (TMP)  
 6.626min (-0.026) 0.047 ppbv m

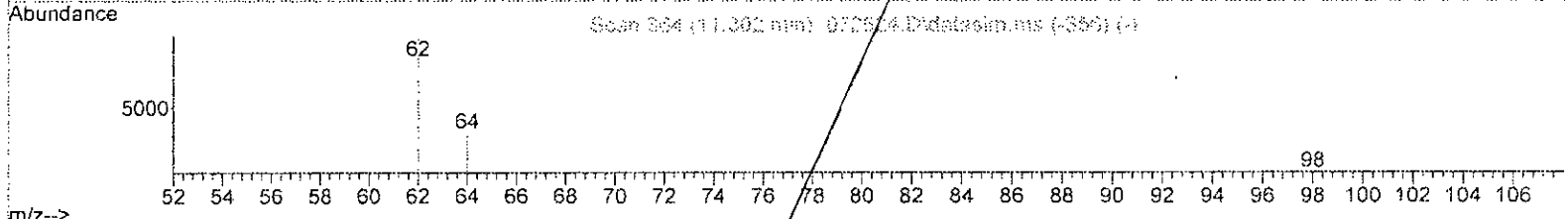
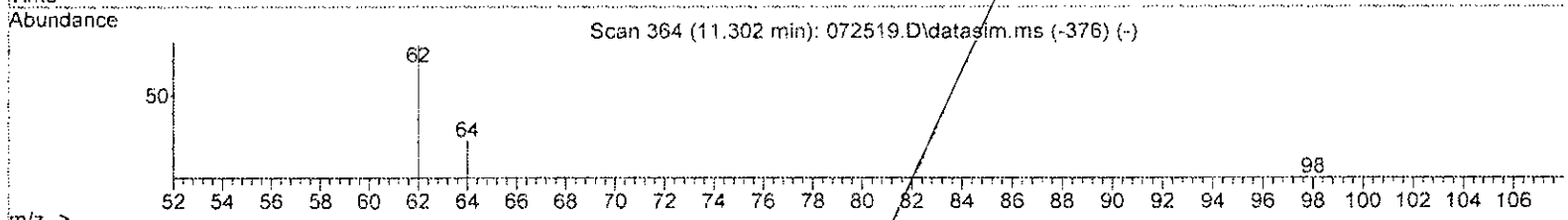
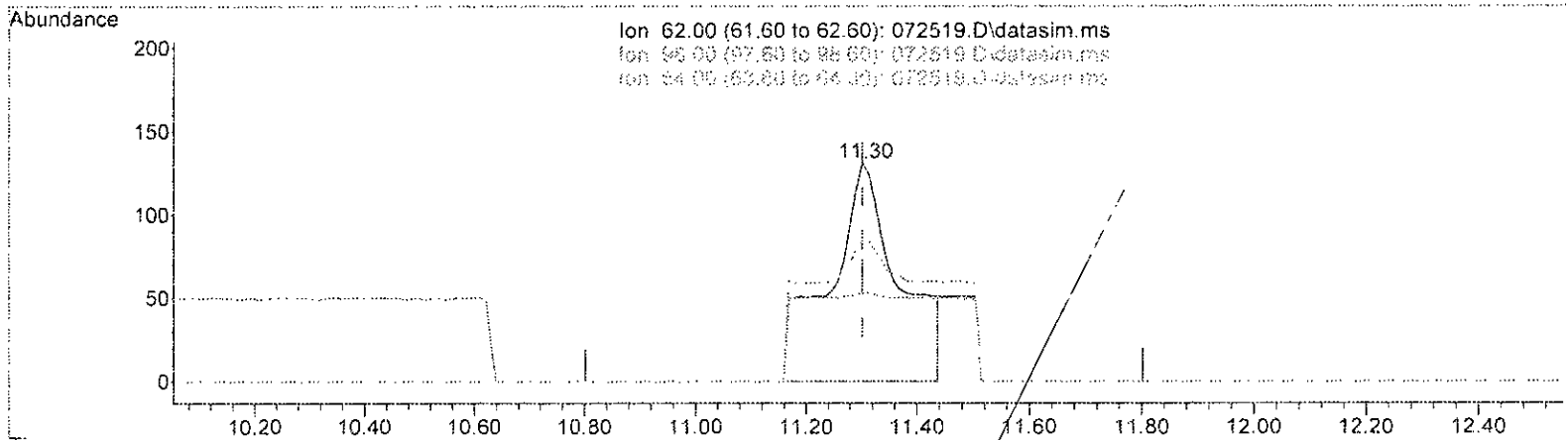
response	163	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	148.84#
63.00	62.00	81.40
0.00	0.00	0.00

✓  
7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.188 ppbv

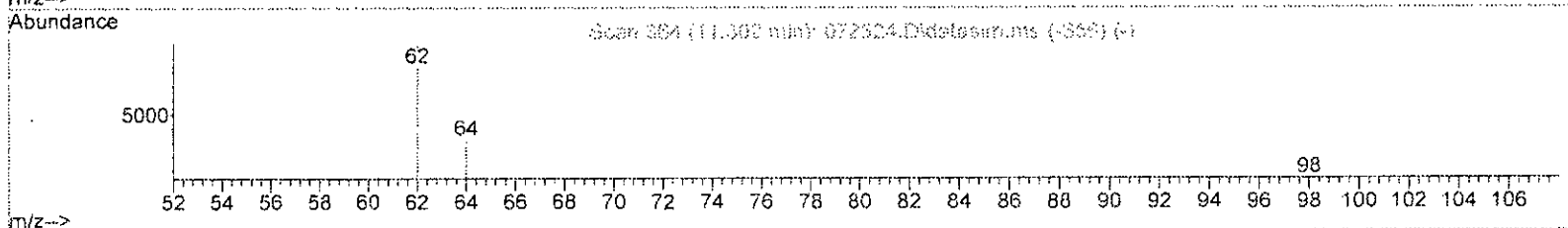
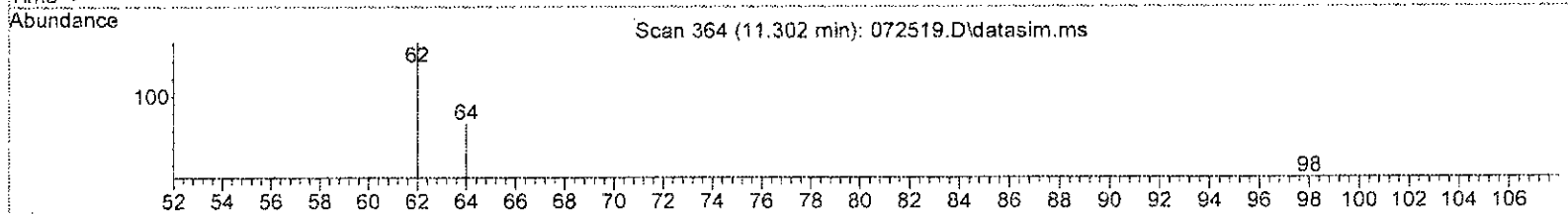
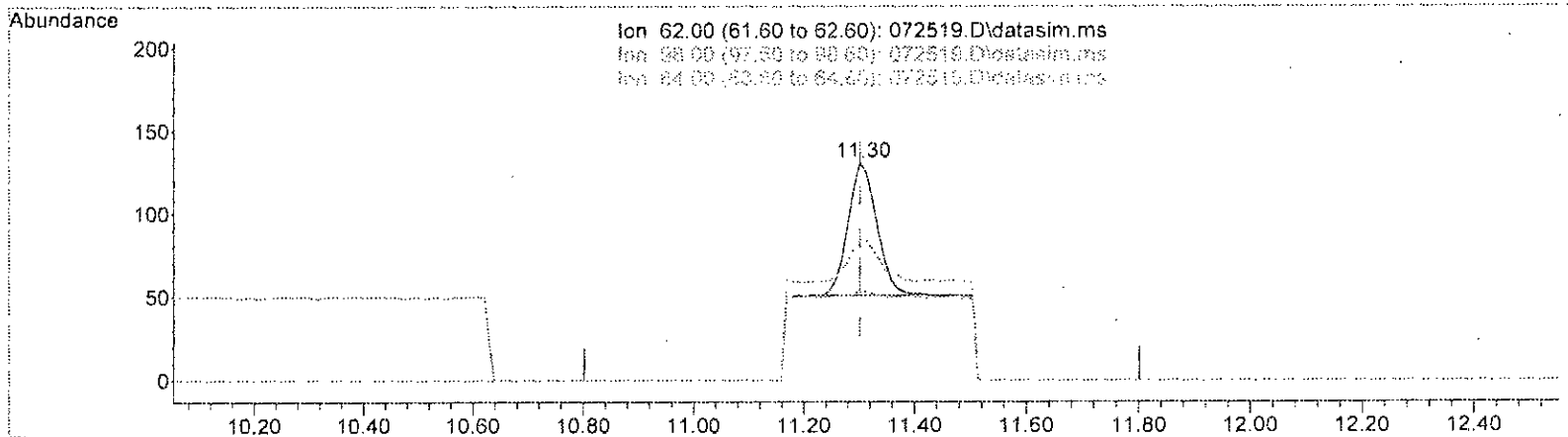
response	1122	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	40.46#
64.00	33.00	64.12#
0.00	0.00	0.00

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.048 ppbv m

response 284

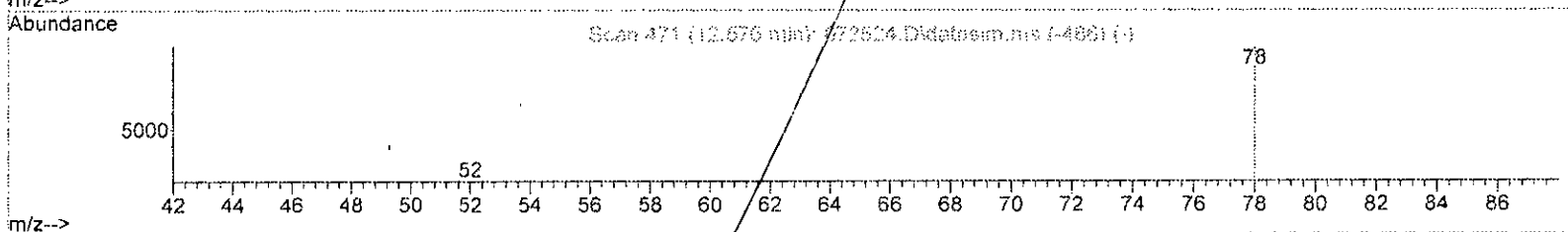
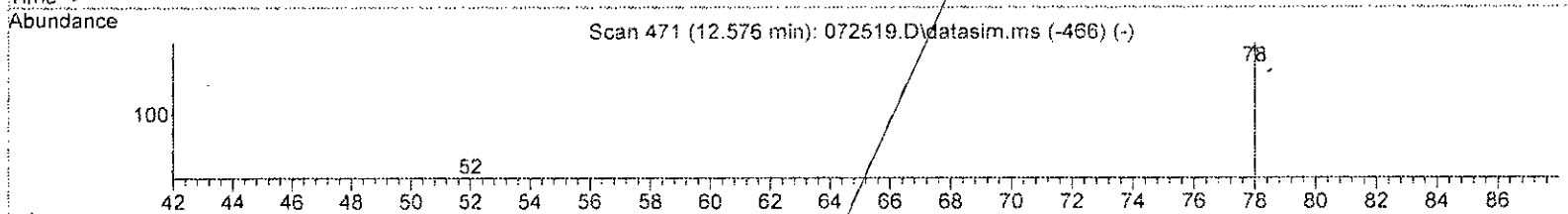
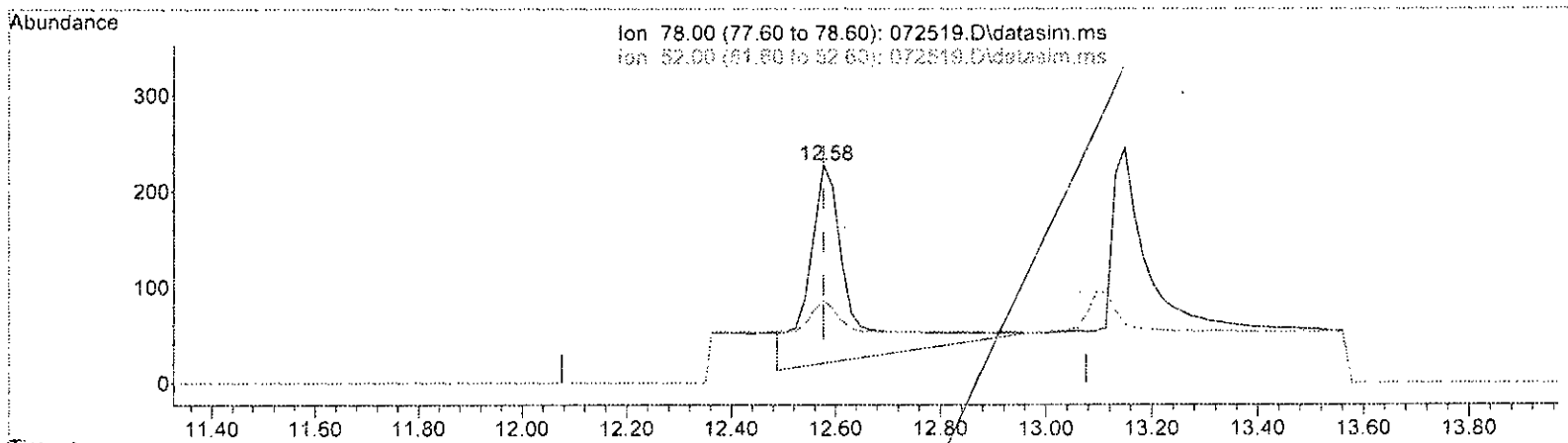
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	40.46#
64.00	33.00	64.12#
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv TO15 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072519.D\data.ms

(37) Benzene (TMP)

12.576min (+ 0.000) 0.101 ppbv

response 1193

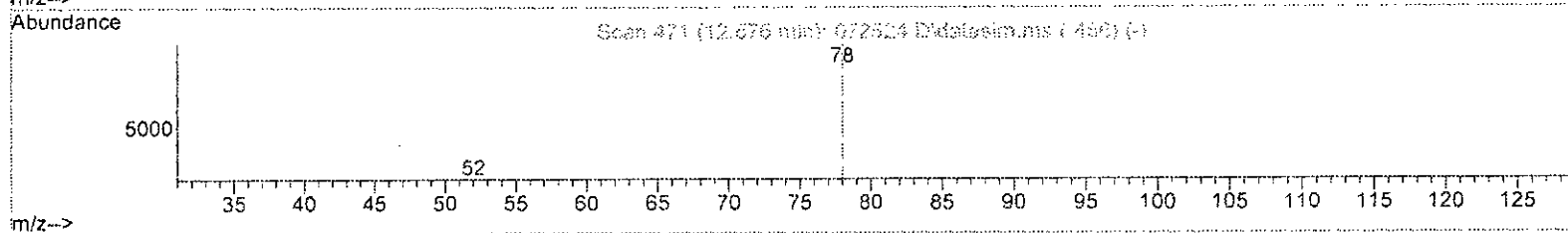
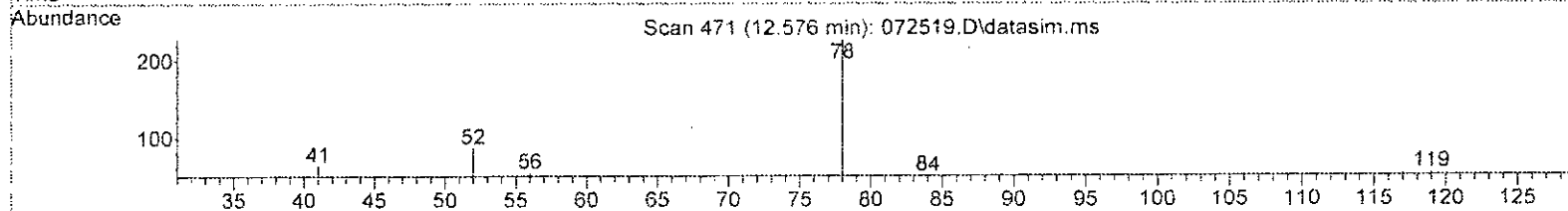
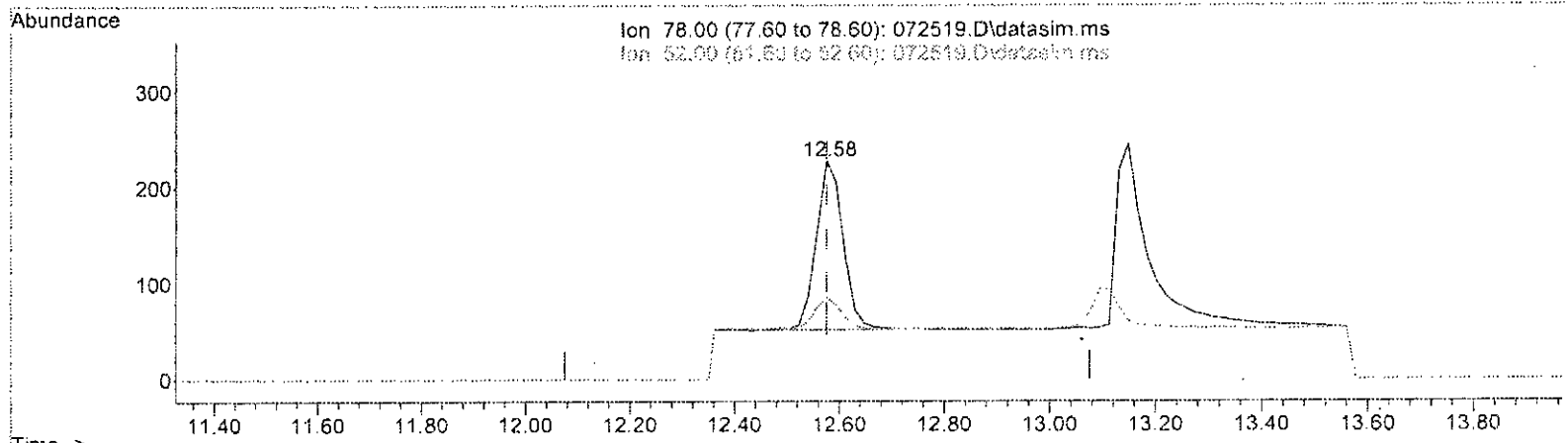
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	19.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(37) Benzene (TMP)

12.576min (+ 0.000) 0.053 ppbv m

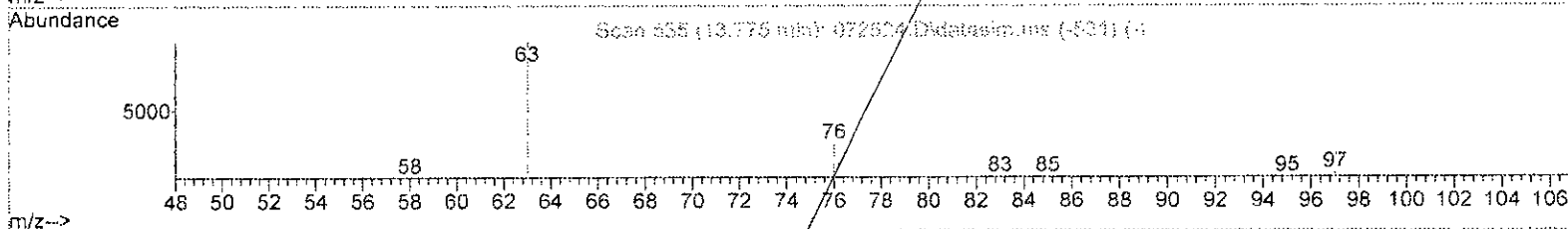
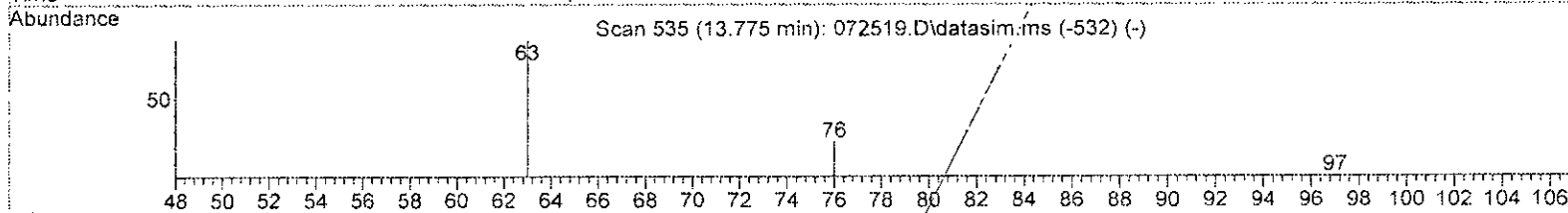
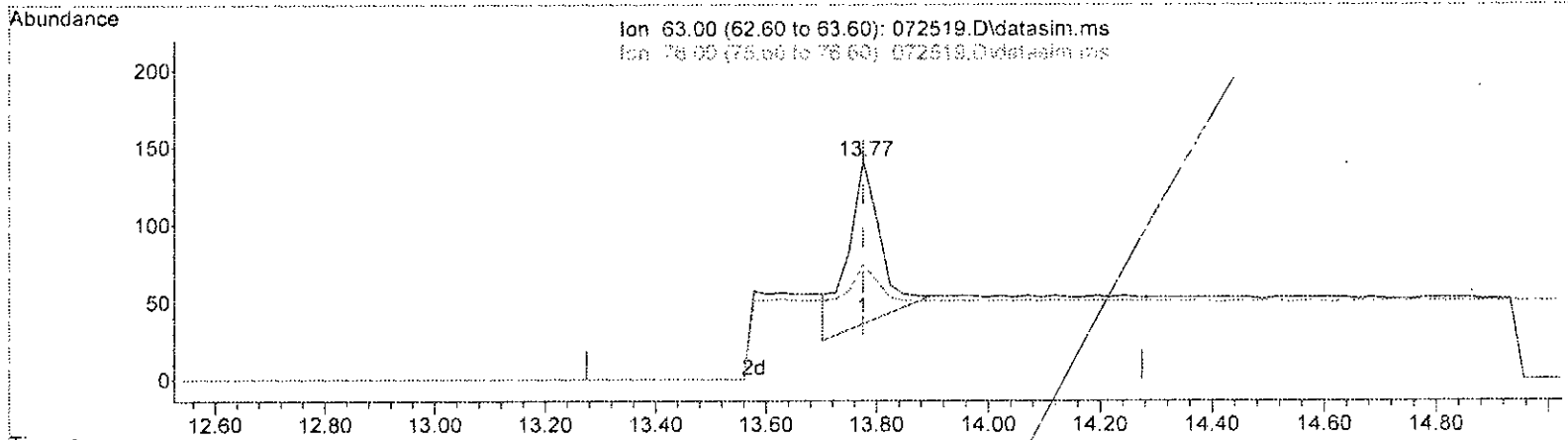
response	623	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	37.89
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(40) 1,2-Dichloropropane (TMP)  
 13.775min (-0.000) 0.077 ppbv  
 response 430

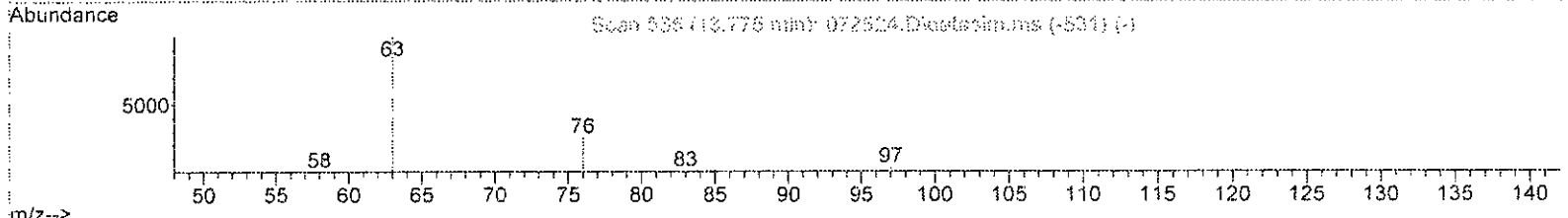
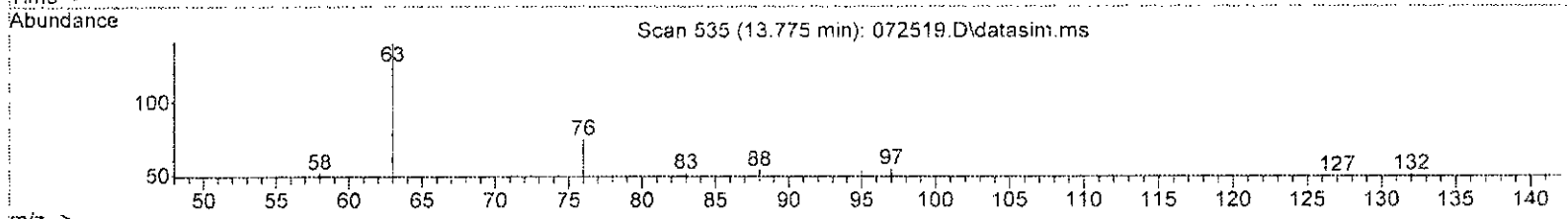
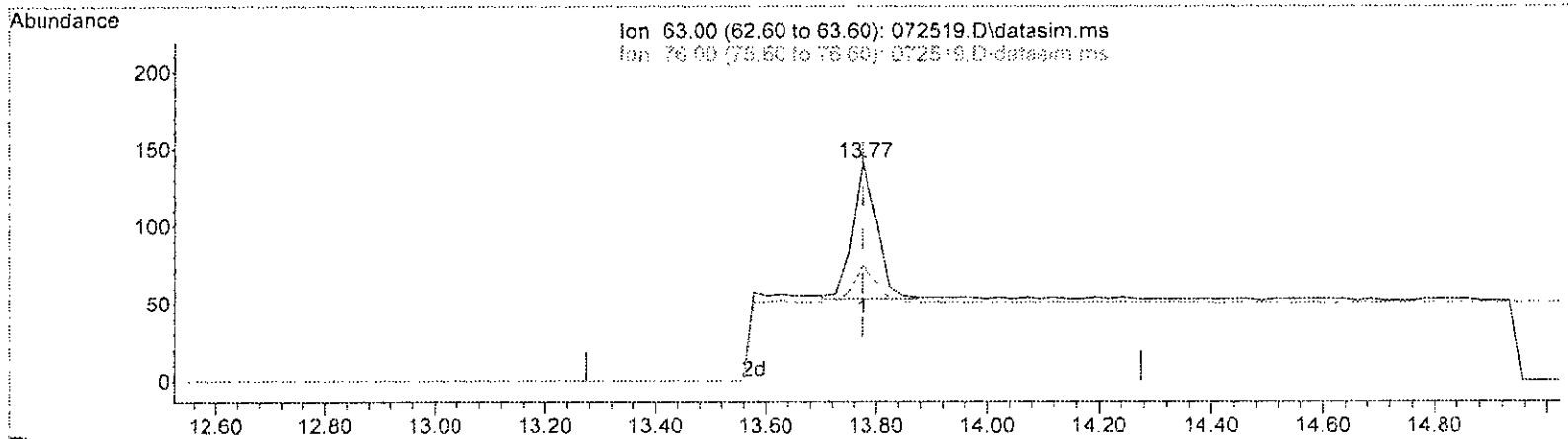
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	26.44
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

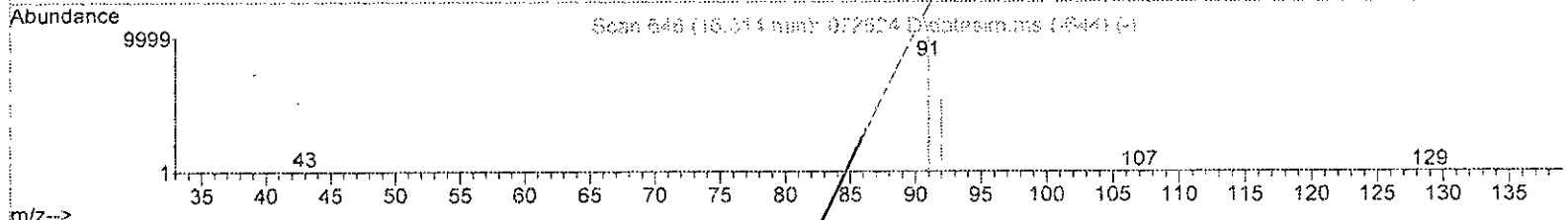
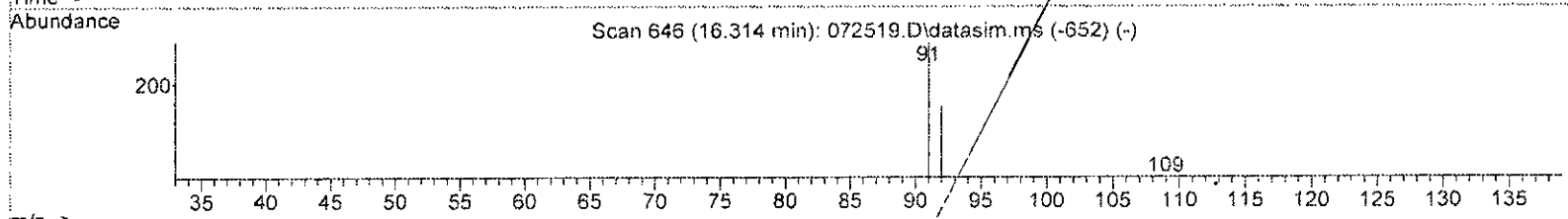
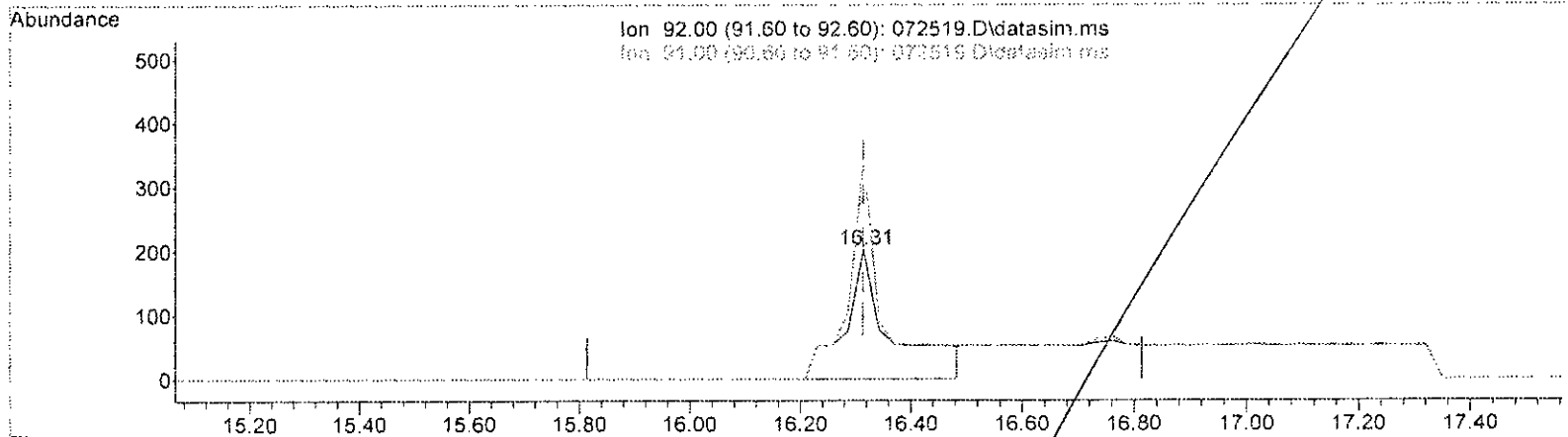
(40) 1,2-Dichloropropane (TMP)			
13.775min (-0.000) 0.048 ppbv m			
response	269		
Ion	Exp%	Act%	
63.00	100.00	100.00	
76.00	25.70	52.48	
0.00	0.00	0.00	
0.00	0.00	0.00	

7/27/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(50) Toluene (TMP)		
16.314min (+ 0.000)	0.170 ppbv	
response	1164	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	168.81#
0.00	0.00	0.00
0.00	0.00	0.00

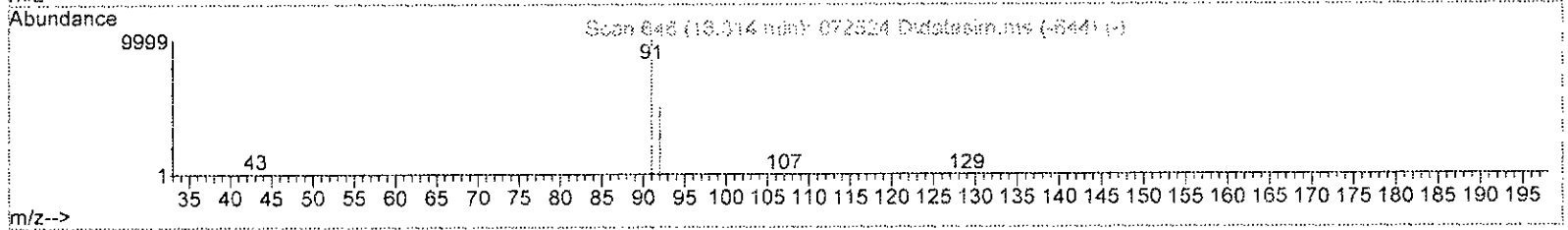
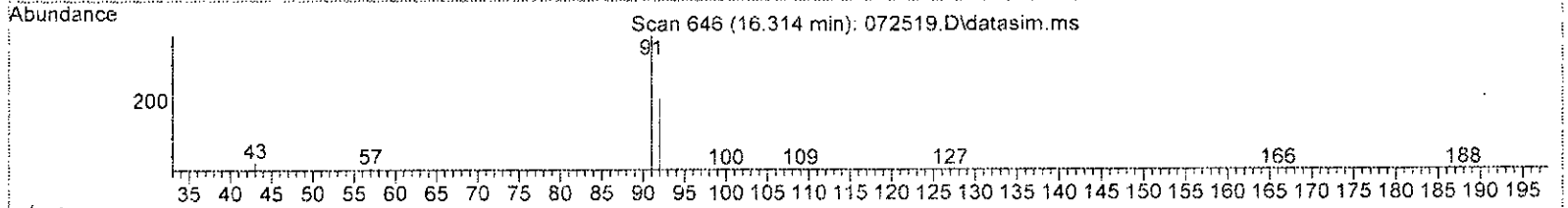
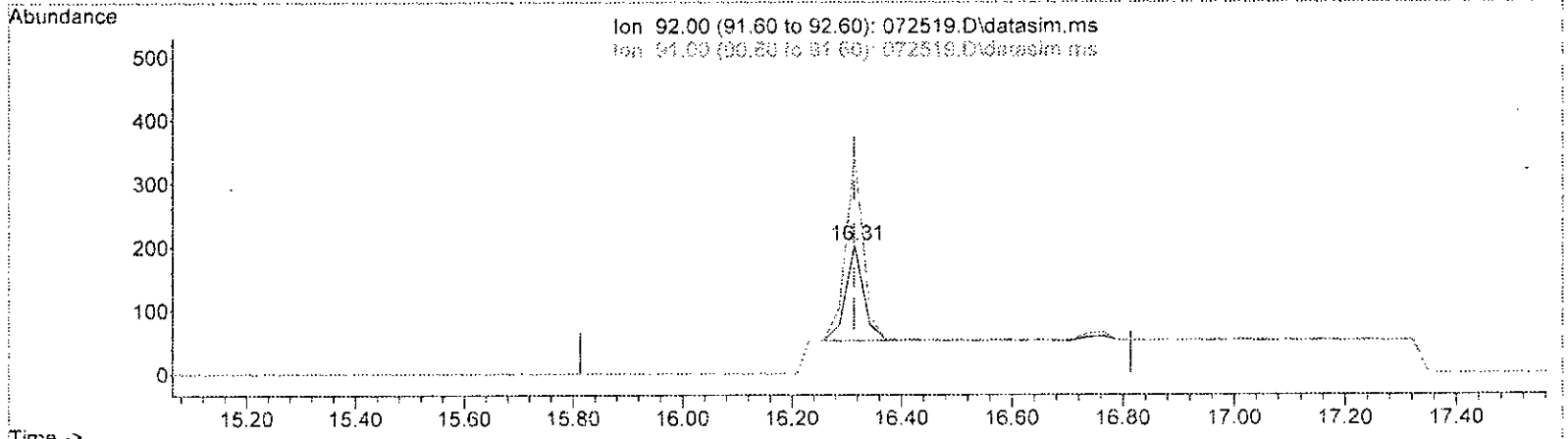
L  
7/31/23



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

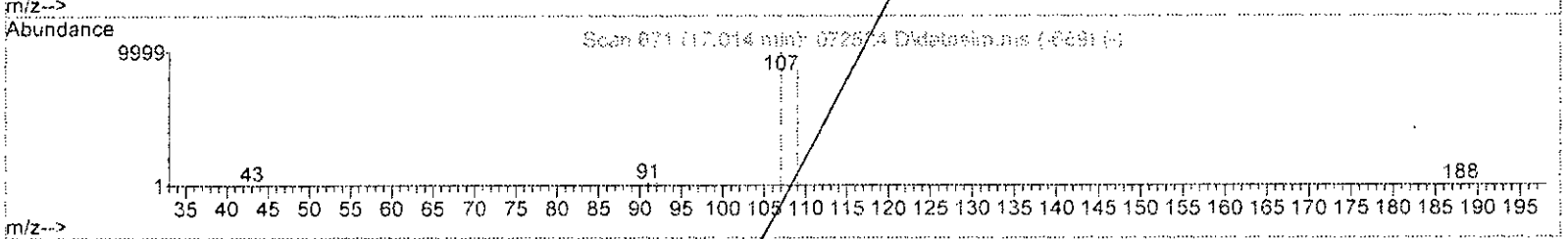
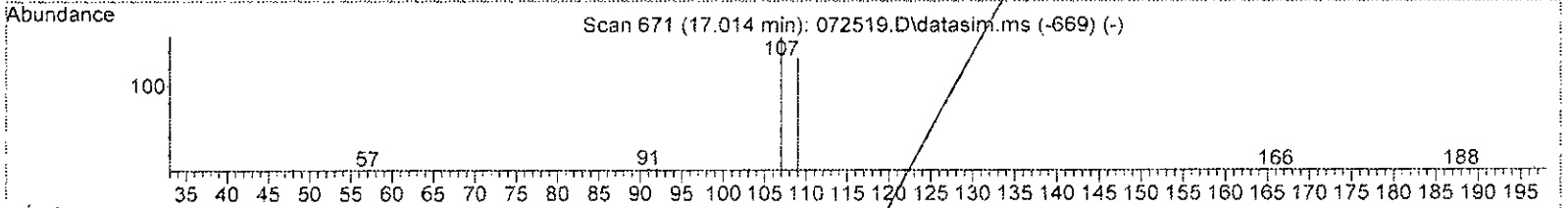
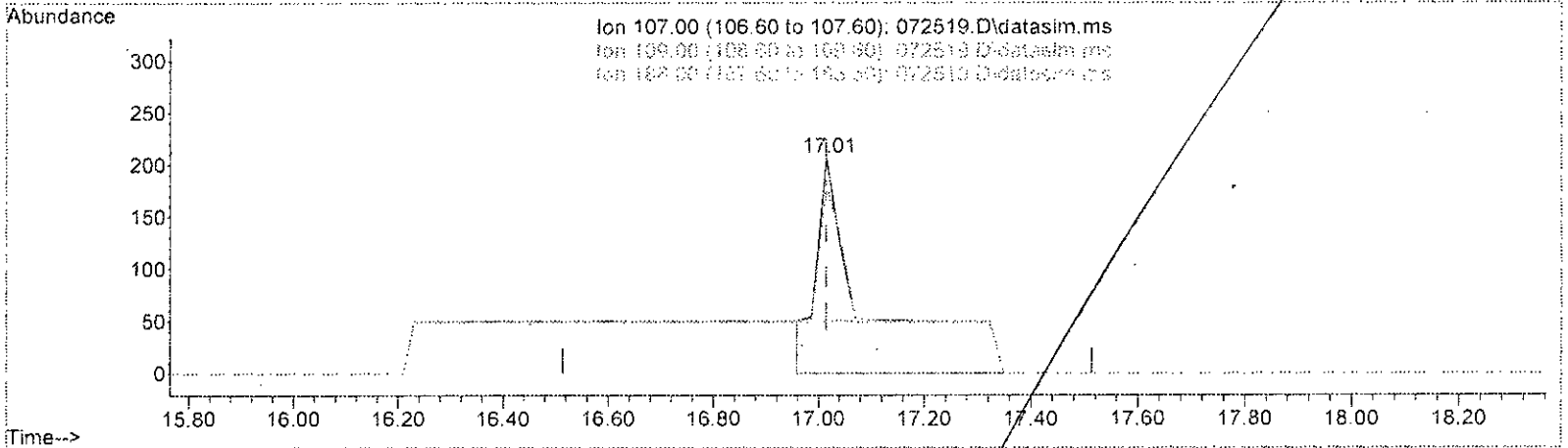
(50) Toluene (TMP)		
16.314min (+ 0.000)	0.050 ppbv m	
response	339	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	168.81#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv TO15 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072519.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 0.175 ppbv

response 1434

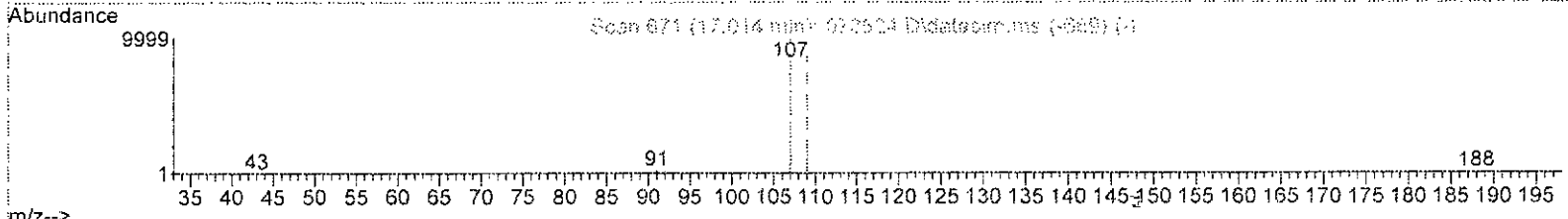
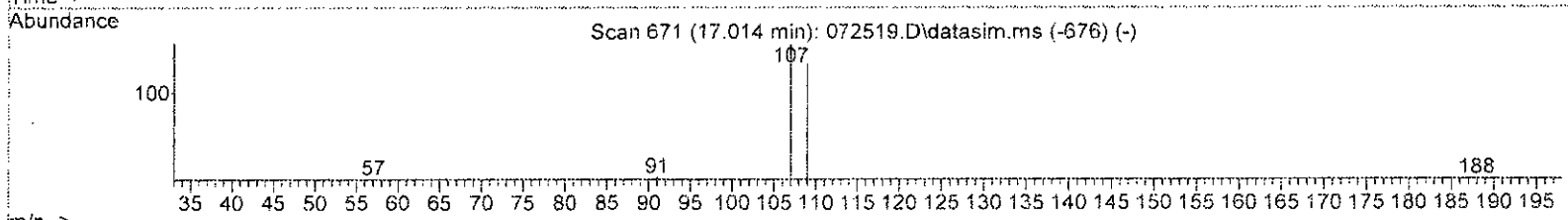
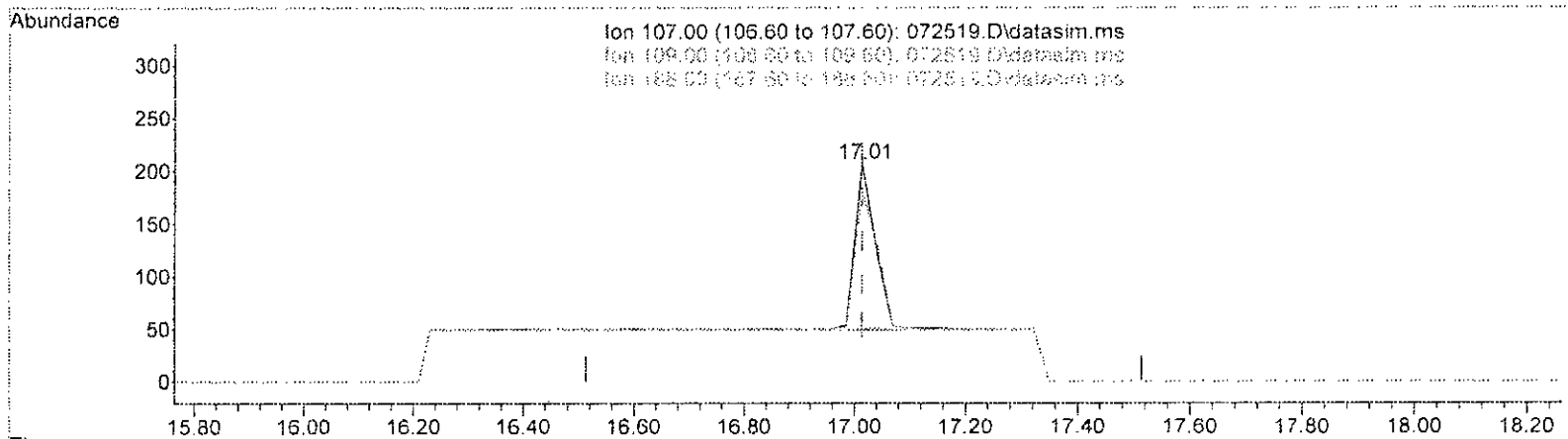
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.92
188.00	2.70	24.15
0.00	0.00	0.00

*Handwritten signature and date: 7/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072519.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 0.050 ppbv m

response	408	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.92
188.00	2.70	24.15
0.00	0.00	0.00

*Handwritten signature: 6/27/23*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	21061	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	89815	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	75436	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	54435	9.738	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D.	
3) Dichlorodifluoromethane	0.00		0		N.D.	
4) Chloromethane	0.00		0		N.D. d	
5) F-114	0.00		0		N.D.	
6] Vinyl chloride	4.01	62	193	0.047	ppbv	97
7] 1,3-Butadiene	4.21	54	141	0.054	ppbv #	80
8) Butane	0.00		0		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11] Vinyl bromide	5.26	106	170m	0.047	ppbv	
12) Ethanol	0.00		0		N.D.	
13] Acrolein	5.41	56	73m	0.048	ppbv	
14) Pentane	0.00		0		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D.	
16) Acetone	0.00		0		N.D.	
17) 2-Propanol	0.00		0		N.D.	
18] 1,1-Dichloroethene	6.63	96	163m	0.047	ppbv	
19] trans-1,2-Dichloroethene	8.07	96	167	0.049	ppbv #	78
20) Methylene chloride	0.00		0		N.D. d	
21) t-Butyl alcohol (TBA)	0.00		0		N.D.	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	0.00		0		N.D. d	
25) Methyl t-butyl ether (...)	0.00		0		N.D. d	
26) Vinyl acetate	0.00		0		N.D.	
27] 1,1-Dichloroethane	8.33	63	382	0.050	ppbv	98
28] cis-1,2-Dichloroethene	9.60	96	186	0.050	ppbv	88
29) Hexane	0.00		0		N.D.	
30] Chloroform	10.07	83	433	0.049	ppbv	96
31) Ethyl acetate	0.00		0		N.D. d	
32) Tetrahydrofuran	0.00		0		N.D.	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34] 1,2-Dichloroethane (EDC)	11.30	62	284m	0.048	ppbv	
35] 1,1,1-Trichloroethane	11.79	97	353	0.049	ppbv	96
36] Carbon tetrachloride	12.83	117	346	0.047	ppbv	97
37] Benzene	12.58	78	623m	0.053	ppbv	
38) Cyclohexane	0.00		0		N.D.	
40] 1,2-Dichloropropane	13.77	63	269m	0.048	ppbv	

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

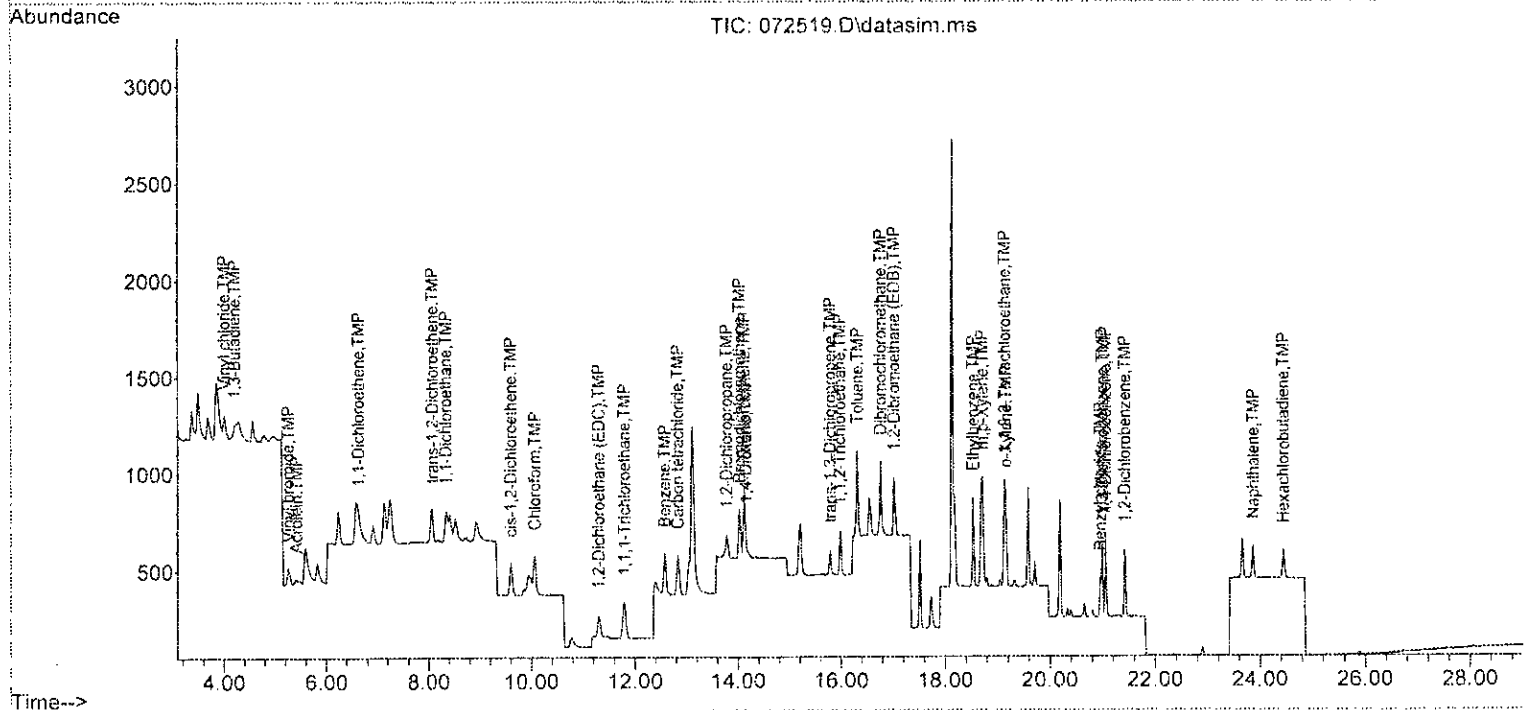
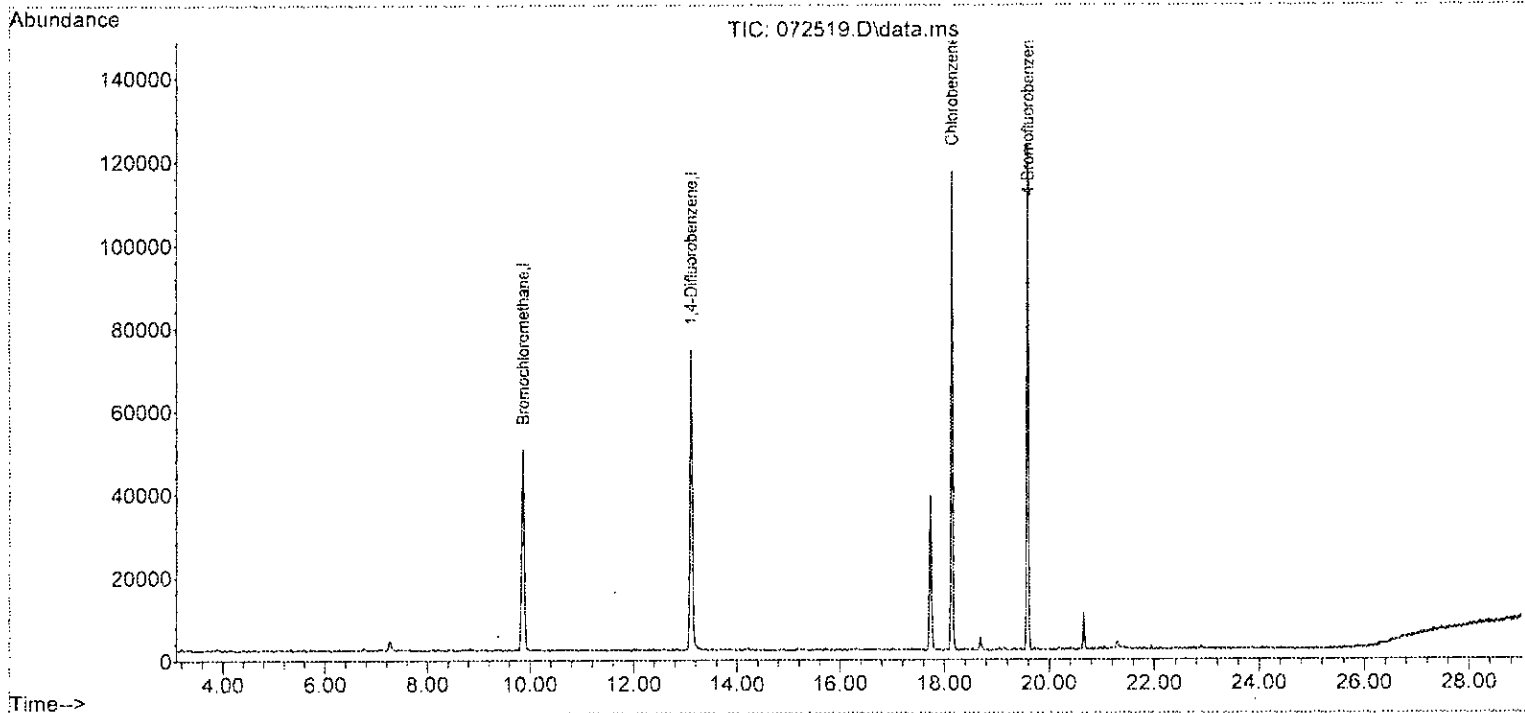
Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.14	88	114	0.054	ppbv	84
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45] Bromodichloromethane	14.02	83	422	0.047	ppbv	100
46] Trichloroethene	14.12	95	292	0.051	ppbv	95
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49] trans-1,3-Dichloropropene	15.78	75	255	0.047	ppbv	95
50] Toluene	16.31	92	339m	0.050	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	247	0.047	ppbv	99
52) 2-Hexanone	0.00		0	N.D.	d	
53) Tetrachloroethene	0.00		0	N.D.	d	
54] Dibromochloromethane	16.76	129	411	0.050	ppbv	96
55] 1,2-Dibromoethane (EDB)	17.01	107	408m	0.050	ppbv	
57) Chlorobenzene	0.00		0	N.D.	d	
58] Ethylbenzene	18.53	91	703	0.052	ppbv	100
59] 1,1,2,2-Tetrachloroethane	19.13	83	581	0.051	ppbv	93
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	494	0.108	ppbv	98
66] o-Xylene	19.15	106	214	0.051	ppbv	84
67) Styrene	0.00		0	N.D.	d	
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	322	0.046	ppbv	89
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
73] 1,3-Dichlorobenzene	20.99	146	358	0.049	ppbv	92
74] 1,4-Dichlorobenzene	21.05	146	337	0.050	ppbv	88
75] 1,2-Dichlorobenzene	21.41	146	358	0.051	ppbv	91
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
77] Naphthalene	23.86	128	341	0.043	ppbv	99
78] Hexachlorobutadiene	24.44	225	314	0.050	ppbv	98

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv TO15 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	0.050	0.000	100.0#	0	-3.48#
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.69#
5 TMP F-114	0.050	0.000	100.0#	0	-3.88#
6 TMP Vinyl chloride	0.050	0.047	6.0	100	0.00
7 TMP 1,3-Butadiene	0.050	0.054	-8.0	100	0.00
8 TMP Butane	-1.000	0.000	0.0	0	-4.28#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.56#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.80#
11 TMP Vinyl bromide	0.050	0.047	6.0	101	0.00
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.92#
13 TMP Acrolein	0.050	0.048	4.0	75	0.04
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.80#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.54#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.050	0.047	6.0	95	-0.03
19 TMP trans-1,2-Dichloroethene	0.050	0.049	2.0	100	0.00
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.78#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.93#
23 TMP CFC-113	0.050	0.000	100.0#	0	-7.15#
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.25#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.41#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.51#
27 TMP 1,1-Dichloroethane	0.050	0.050	0.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.050	0.050	0.0	100	0.00
29 TMP Hexane	-1.000	0.000	0.0	0	-9.99#
30 TMP Chloroform	0.050	0.049	2.0	100	0.00
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.90#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.72#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.88#
34 TMP 1,2-Dichloroethane (EDC)	0.050	0.048	4.0	97	0.00
35 TMP 1,1,1-Trichloroethane	0.050	0.049	2.0	100	0.00
36 TMP Carbon tetrachloride	0.050	0.047	6.0	100	0.00
37 TMP Benzene	0.050	0.053	-6.0	97	0.00
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.04#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.050	0.048	4.0	108	0.00
41 TMP 1,4-Dioxane	0.050	0.054	-8.0	100	0.07
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.21#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.53#
45 TMP Bromodichloromethane	0.050	0.047	6.0	100	0.00
46 TMP Trichloroethene	0.050	0.051	-2.0	100	0.00
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.18#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.21#
49 TMP trans-1,3-Dichloropropene	0.050	0.047	6.0	100	0.00
50 TMP Toluene	0.050	0.050	0.0	97	0.00
51 TMP 1,1,2-Trichloroethane	0.050	0.047	6.0	100	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.050	0.050	0.0	105	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.050	0.050	0.0	96	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.050	0.052	-4.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.050	0.051	-2.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.32#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.72#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.33#
65 TMP m,p-Xylene	0.100	0.108	-8.0	100	0.00
66 TMP o-Xylene	0.050	0.051	-2.0	100	0.00
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.738	2.6	100	0.00
70 TMP Benzyl chloride	0.050	0.046	8.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.81#
73 TMP 1,3-Dichlorobenzene	0.050	0.049	2.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.050	0.050	0.0	100	0.00
75 TMP 1,2-Dichlorobenzene	0.050	0.051	-2.0	104	0.00
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.67#
77 TMP Naphthalene	0.050	0.043	14.0	100	0.00
78 TMP Hexachlorobutadiene	0.050	0.050	0.0	100	0.00

(#) = Out of Range

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



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv TO15 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.917	0.000#	100.0#	0#	-3.48#
4 TMP Chloromethane	1.713	0.000#	100.0#	0#	-3.69#
5 TMP F-114	4.288	0.000	100.0#	0#	-3.88#
6 TMP Vinyl chloride	1.937	1.833	5.4	100	0.00
7 TMP 1,3-Butadiene	1.242	1.339	-7.8	100	0.00
8 TMP Butane	2.483	0.000	100.0#	0#	-4.28#
9 TMP Bromomethane	1.711	0.000#	100.0#	0#	-4.56#
10 TMP Chloroethane	0.689	0.000#	100.0#	0#	-4.80#
11 TMP Vinyl bromide	1.725	1.614	6.4	101	0.00
12 TMP Ethanol	0.543	0.000	100.0#	0#	-4.92#
13 TMP Acrolein	0.729	0.693	4.9	75	0.04
14 TMP Pentane	2.839	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.796	0.000#	100.0#	0#	-5.80#
16 TMP Acetone	0.670	0.000#	100.0#	0#	-5.54#
17 TMP 2-Propanol	2.930	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.641	1.548	5.7	95	-0.03
19 TMP trans-1,2-Dichloroethene	1.625	1.586	2.4	100	0.00
20 TMP Methylene chloride	1.604	0.000#	100.0#	0#	-6.78#
21 TMP t-Butyl alcohol (TBA)	2.544	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.076	0.000	100.0#	0#	-6.93#
23 TMP CFC-113	3.525	0.000	100.0#	0#	-7.15#
24 TMP Carbon disulfide	5.324	0.000	100.0#	0#	-7.25#
25 TMP Methyl t-butyl ether (MTBE)	3.467	0.000#	100.0#	0#	-8.41#
26 TMP Vinyl acetate	3.863	0.000#	100.0#	0#	-8.51#
27 TMP 1,1-Dichloroethane	3.597	3.628	-0.9	100	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.766	0.5	100	0.00
29 TMP Hexane	2.181	0.000	100.0#	0#	-9.99#
30 TMP Chloroform	4.186	4.112	1.8	100	0.00
31 TMP Ethyl acetate	3.859	0.000	100.0#	0#	-9.90#
32 TMP Tetrahydrofuran	1.822	0.000	100.0#	0#	-10.72#
33 TMP 2-Butanone (MEK)	0.597	0.000	100.0#	0#	-8.88#
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.697	4.9	97	0.00
35 TMP 1,1,1-Trichloroethane	3.417	3.352	1.9	100	0.00
36 TMP Carbon tetrachloride	3.530	3.286	6.9	100	0.00
37 TMP Benzene	5.604	5.916	-5.6	97	0.00
38 TMP Cyclohexane	1.400	0.000	100.0#	0#	-13.04#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.599	3.2	108	0.00
41 TMP 1,4-Dioxane	0.233	0.254	-9.0	100	0.07
42 TMP 2,2,4-Trimethylpentane	1.831	0.000	100.0#	0#	-14.21#
43 TMP Methyl methacrylate	0.534	0.000	100.0#	0#	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072519.D  
 Acq On : 26 Jul 2023 12:05 am  
 Operator : bat  
 Sample : 0.05 ppbv T015 69-157-d  
 Misc : T3  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:08 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.000	100.0#	0#	-14.53#
45 TMP Bromodichloromethane	1.004	0.940	6.4	100	0.00
46 TMP Trichloroethene	0.642	0.650	-1.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.000	100.0#	0#	-15.18#
48 TMP 4-Methyl-2-pentanone	0.041	0.000	100.0#	0#	-15.21#
49 TMP trans-1,3-Dichloropropene	0.606	0.568	6.3	100	0.00
50 TMP Toluene	0.761	0.755	0.8	97	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.550	5.0	100	0.00
52 TMP 2-Hexanone	0.834	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.450	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.923	0.915	0.9	105	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.909	0.2	96	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.800	1.864	-3.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.540	-1.7	100	0.00
60 TMP Nonane	0.879	0.000	100.0#	0#	-19.32#
61 TMP Isopropylbenzene	1.553	0.000	100.0#	0#	-19.72#
62 TMP 2-Chlorotoluene	0.402	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.242	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.485	0.000	100.0#	0#	-20.33#
65 TMP m,p-Xylene	0.607	0.655	-7.9	100	0.00
66 TMP o-Xylene	0.554	0.567	-2.3	100	0.00
67 TMP Styrene	0.767	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	0.895	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.741	0.722	2.6	100	0.00
70 TMP Benzyl chloride	0.931	0.854	8.3	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.164	0.000	100.0#	0#	-20.81#
73 TMP 1,3-Dichlorobenzene	0.972	0.949	2.4	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.893	0.8	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.949	-1.4	104	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.000	100.0#	0#	-23.67#
77 TMP Naphthalene	1.053	0.904	14.2	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.832	-0.1	100	0.00

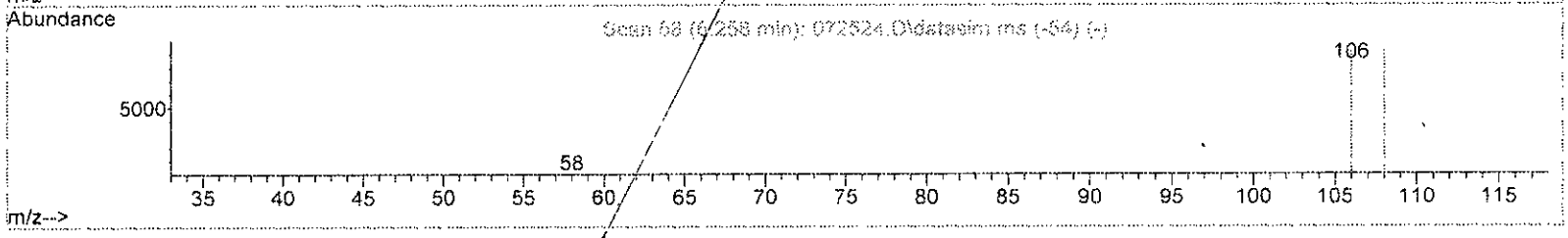
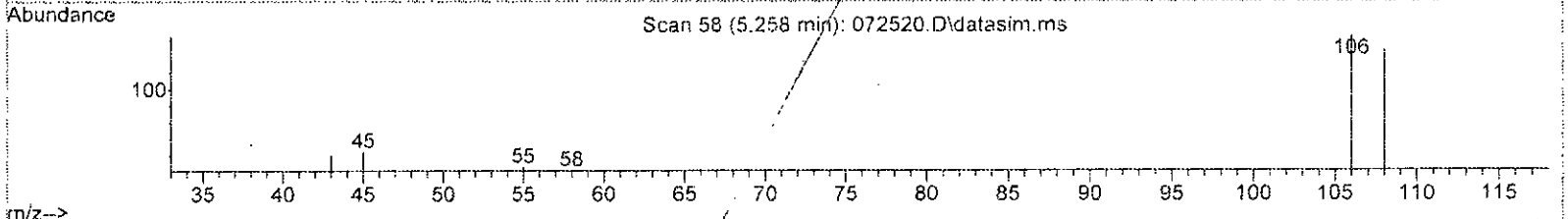
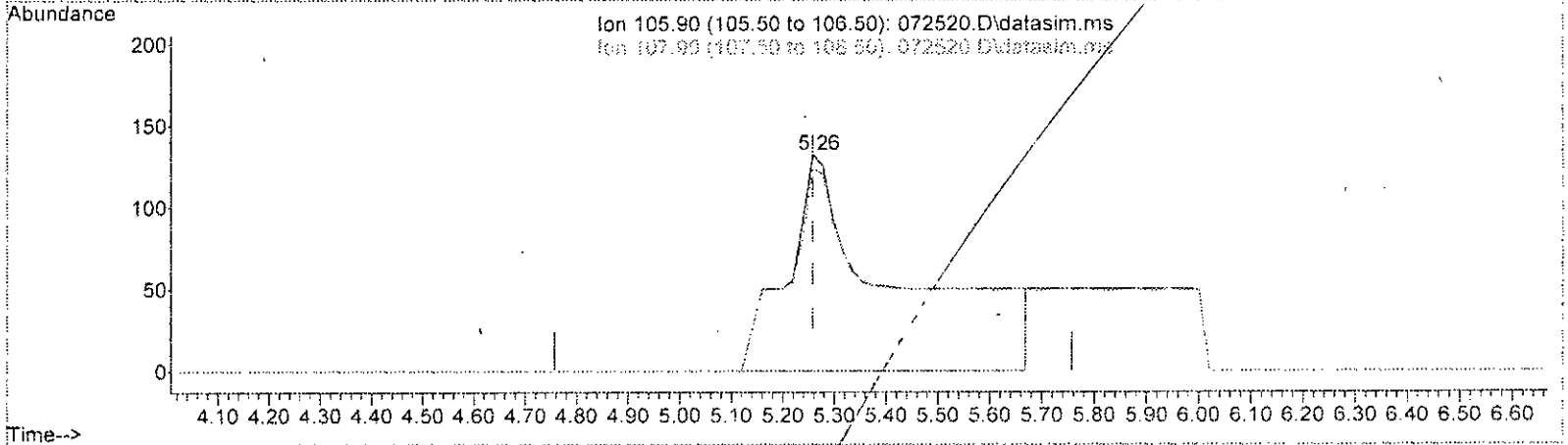
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv TO15 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072520.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 0.582 ppbv

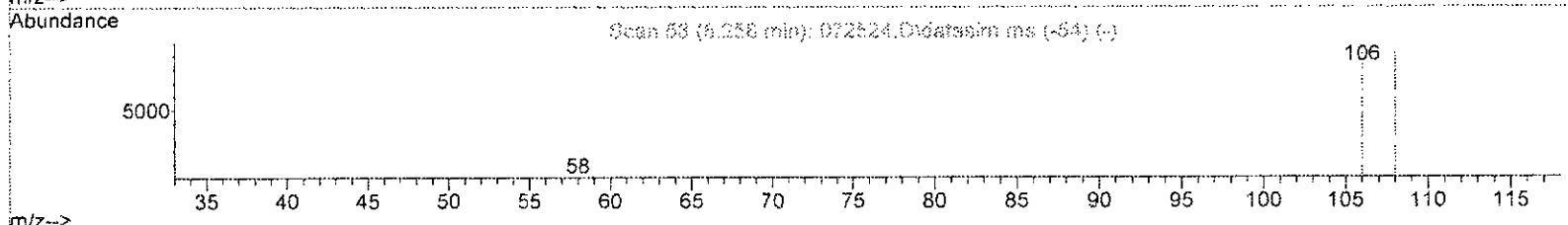
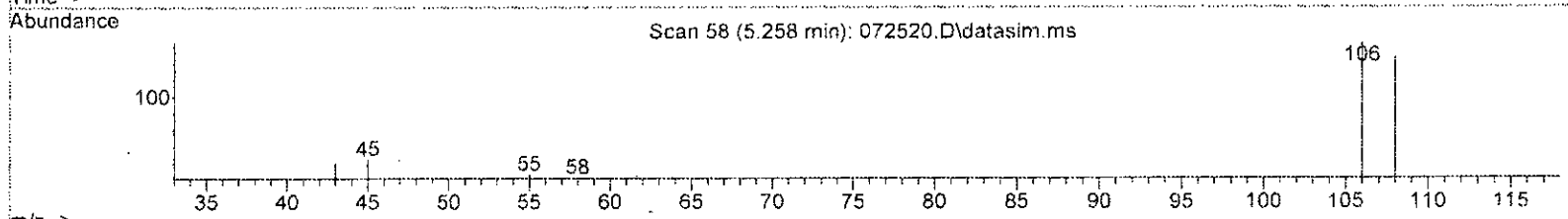
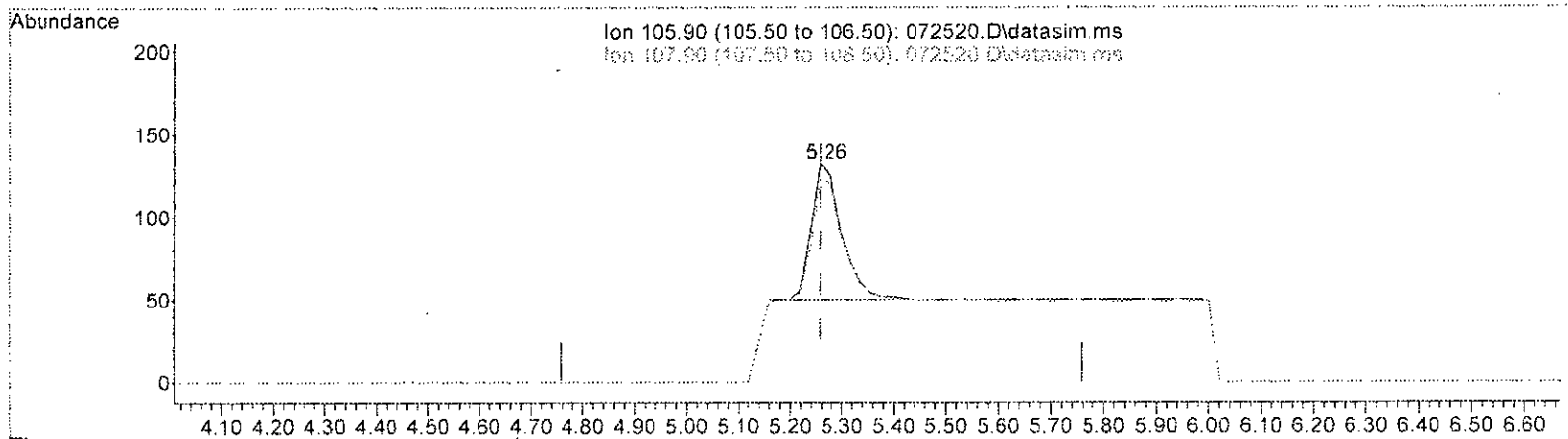
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Ion	Exp%	Act%	
105.90	100.00	100.00	
107.90	94.10	73.03#	
0.00	0.00	0.00	
0.00	0.00	0.00	

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 0.096 ppbv m

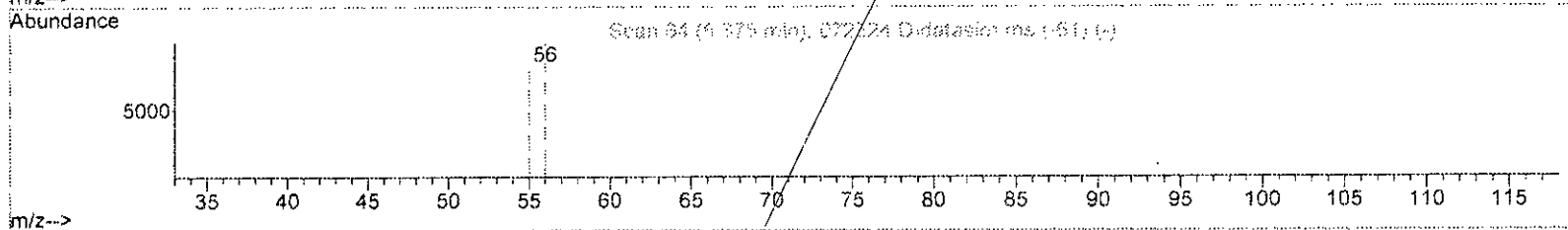
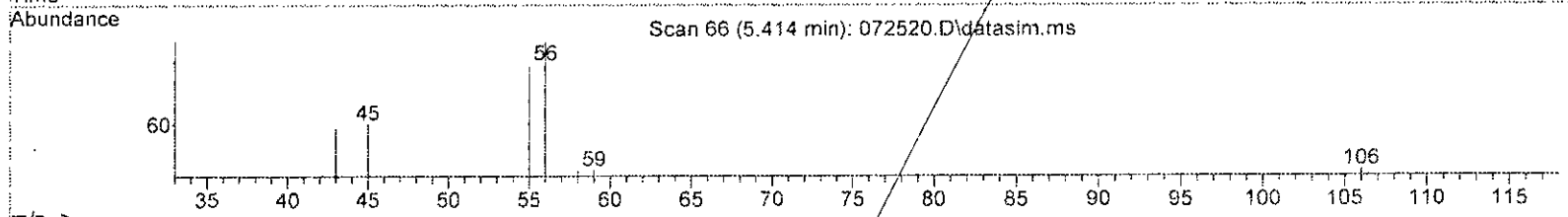
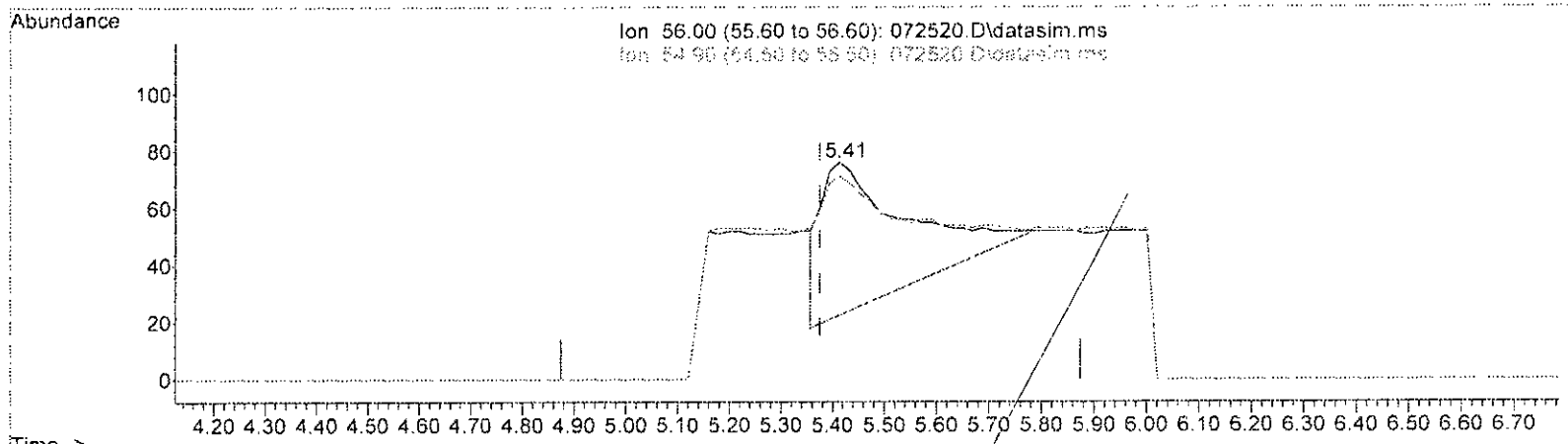
response	339
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 444.84#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature: 7/27/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

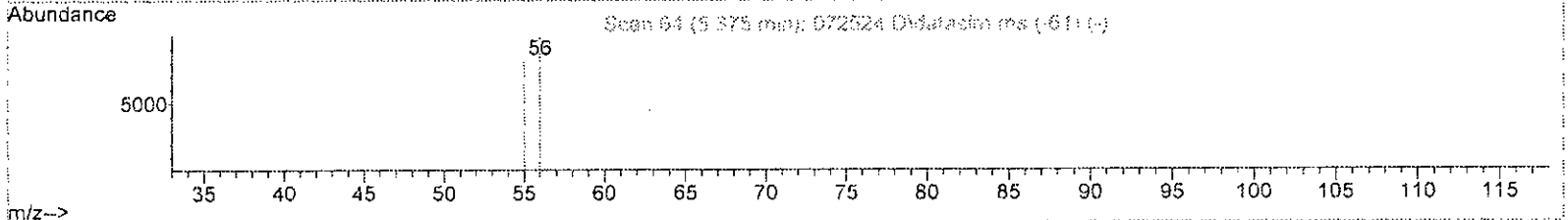
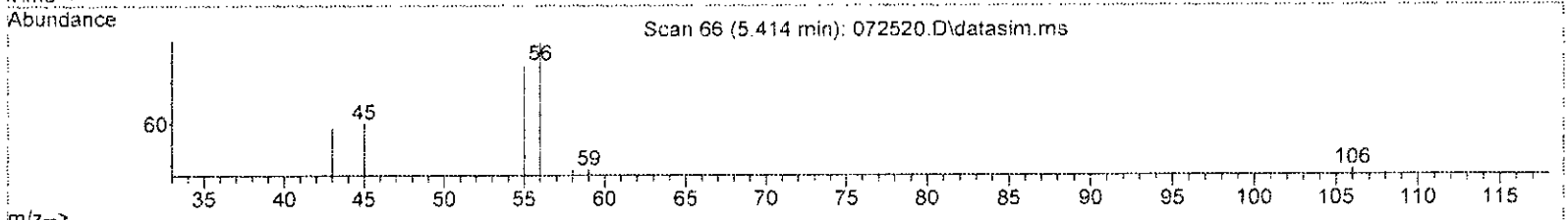
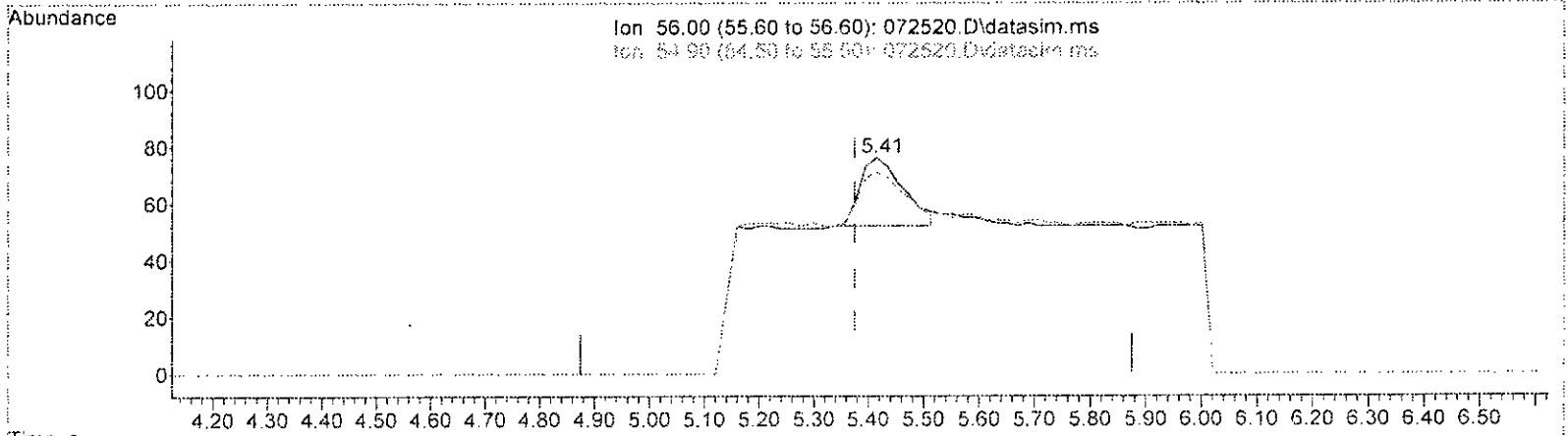
(13) Acrolein (TMP)		
5.414min (+ 0.039)	0.395 ppbv	
response	592	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	40.71#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

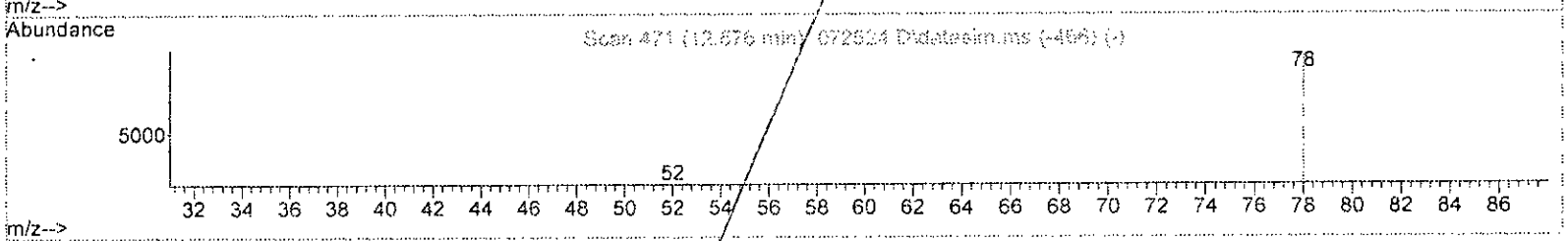
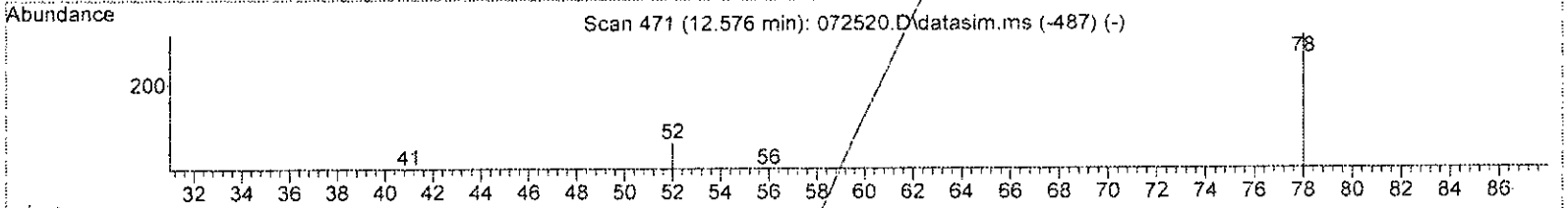
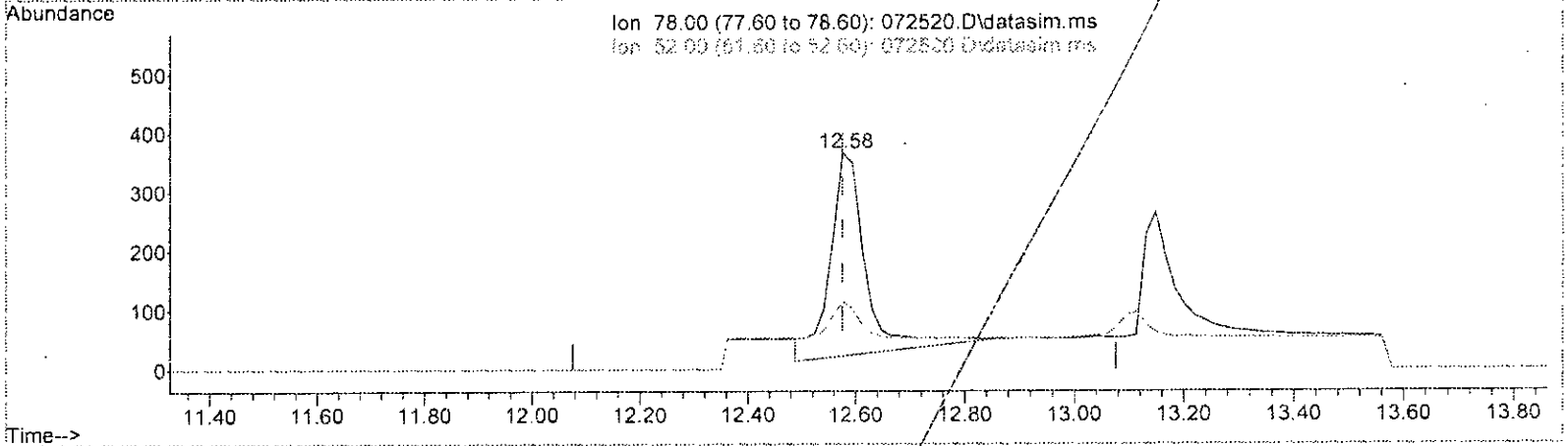
(13) Acrolein (TMP)		
5.414min (+ 0.039)	0.087 ppbv m	
response	130	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	80.00
0.00	0.00	0.00
0.00	0.00	0.00

*W. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

(37) Benzene (IMP)

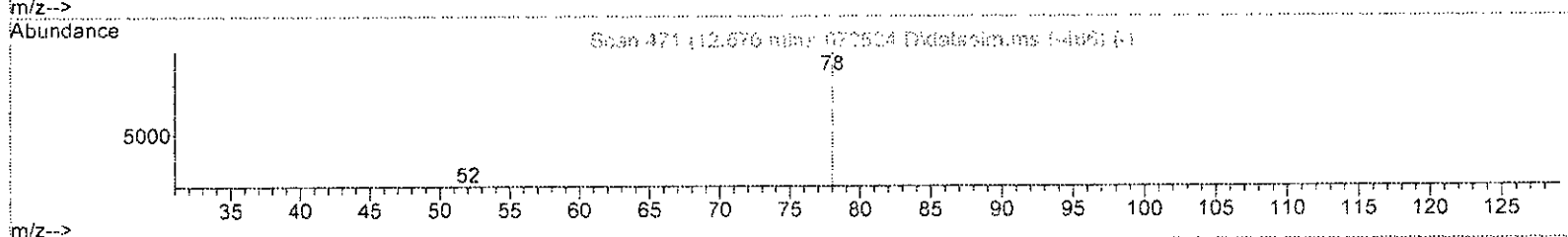
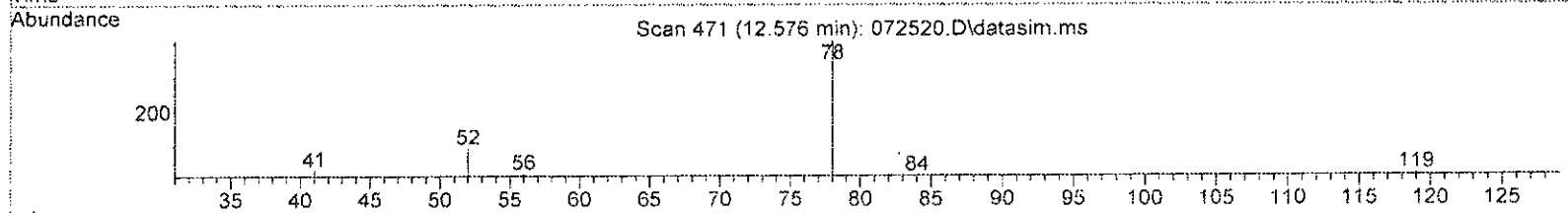
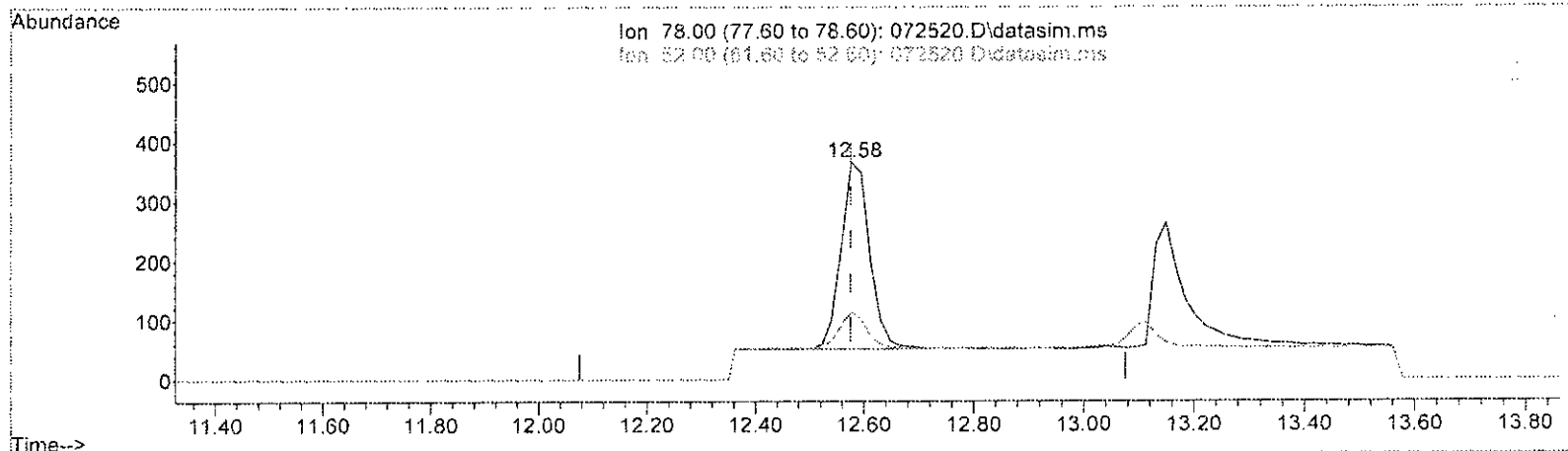
12.576min (+ 0.000)	0.136 ppbv	
response	1572	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	19.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

(37) Benzene (TMP)		
12.576min (+ 0.000)	0.099 ppbv m	
response	1139	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	31.15
0.00	0.00	0.00
0.00	0.00	0.00

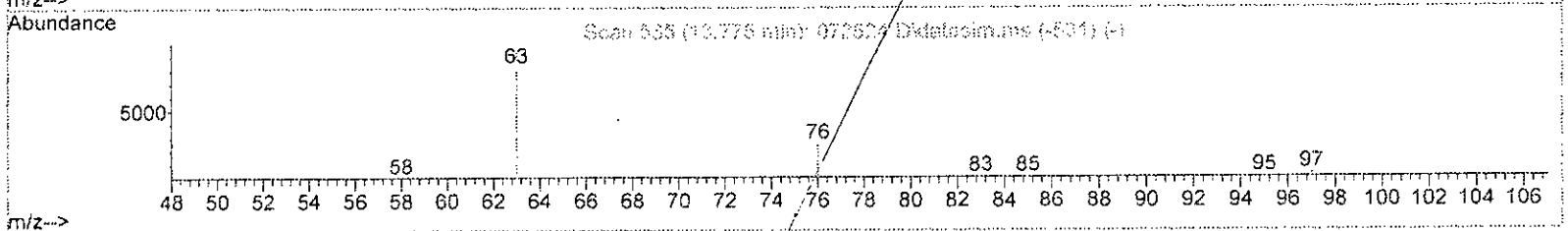
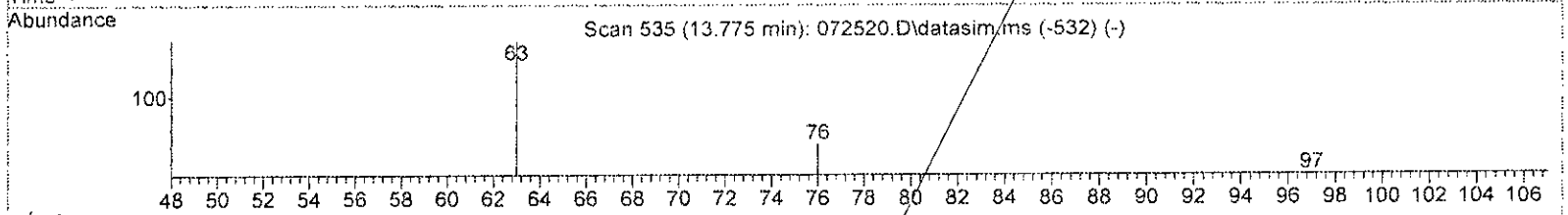
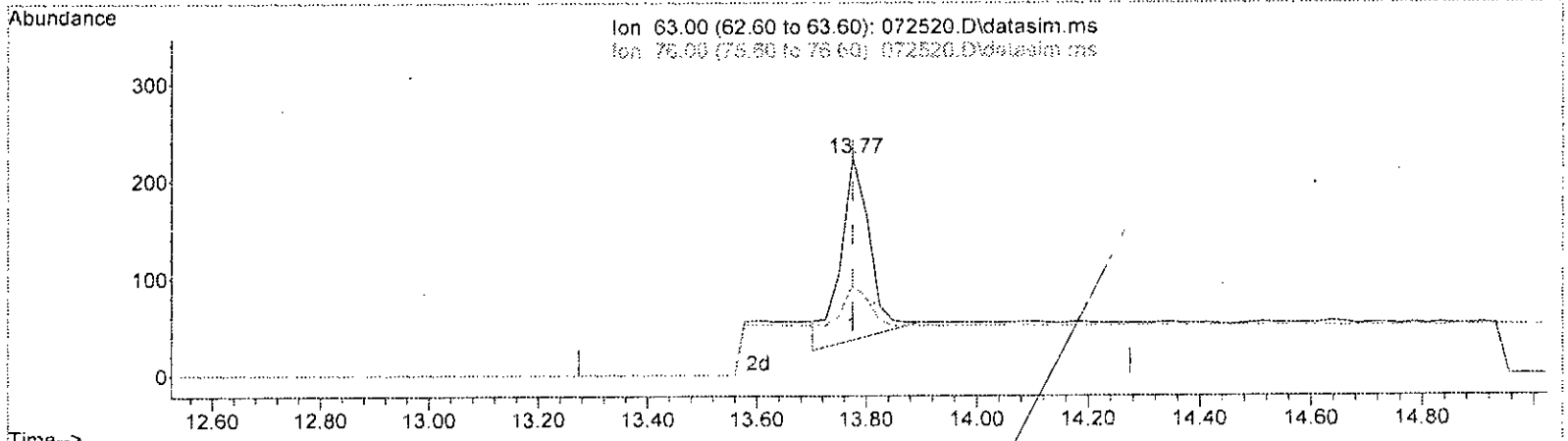
*Handwritten signature: bat 7/27/23*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv TO15 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072520.D\data.ms

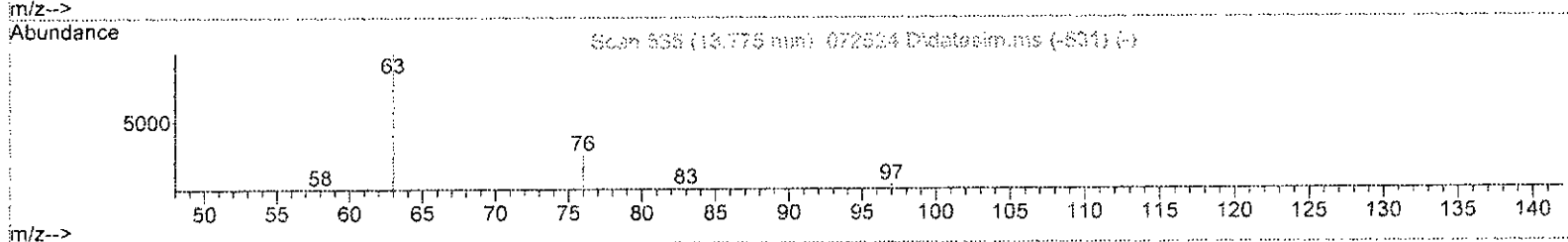
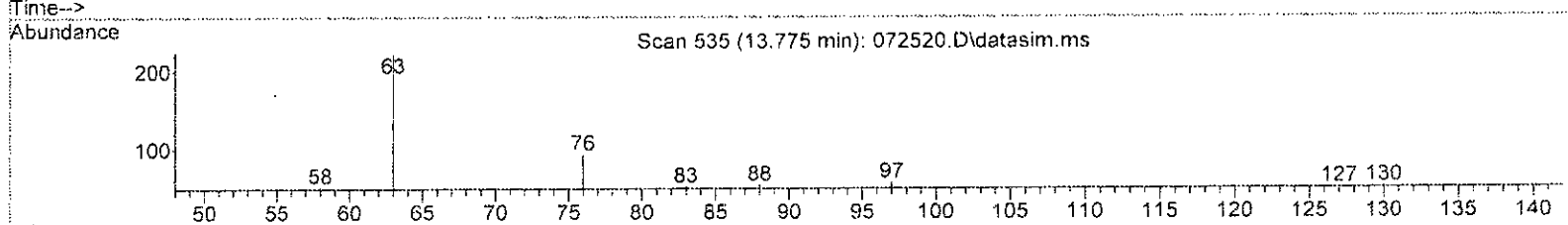
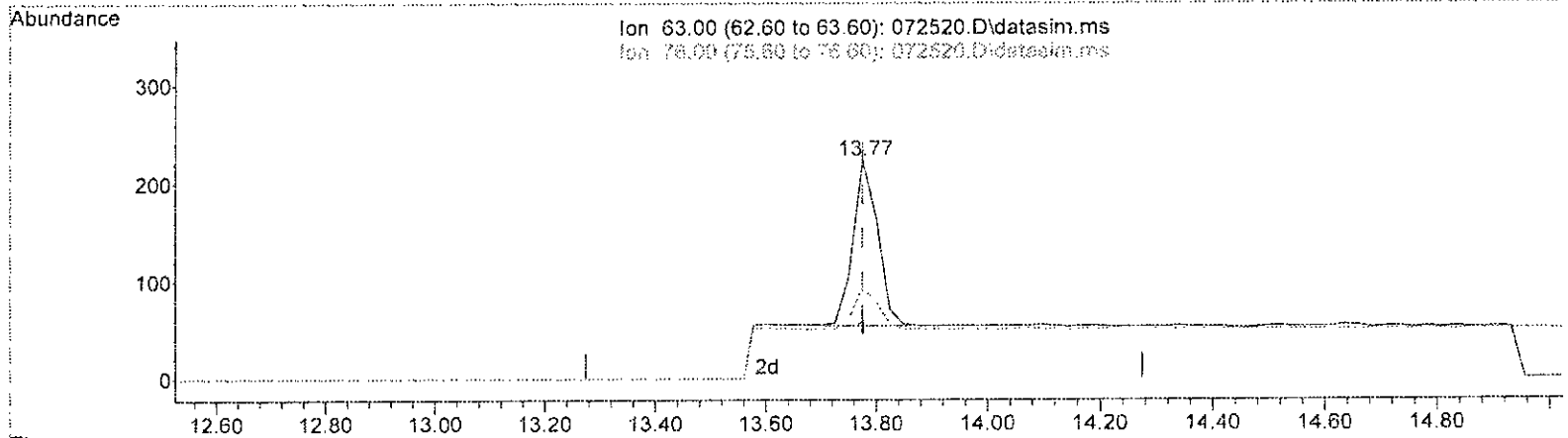
(40) 1,2-Dichloropropane (TMP)			
13.775min (-0.000)		0.125 ppbv	
response	690		
Ion	Exp%	Act%	
63.00	100.00	100.00	
76.00	25.70	24.85	
0.00	0.00	0.00	
0.00	0.00	0.00	

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv TO15 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072520.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.094 ppbv m

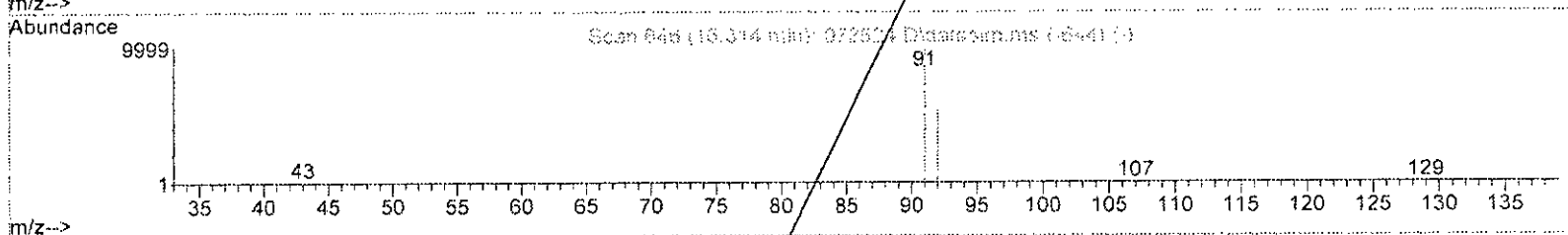
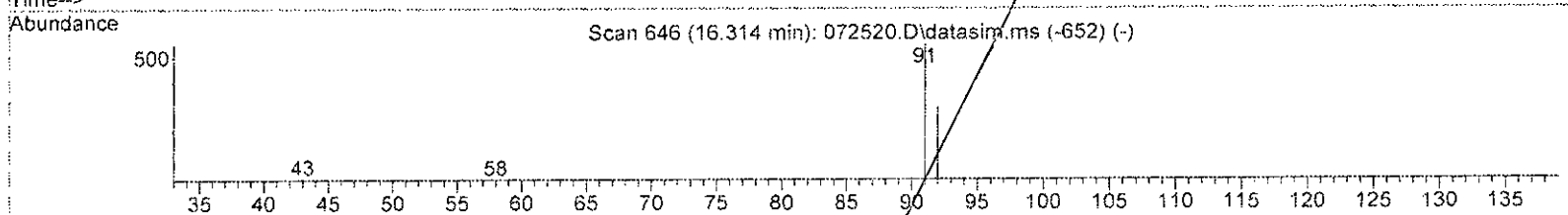
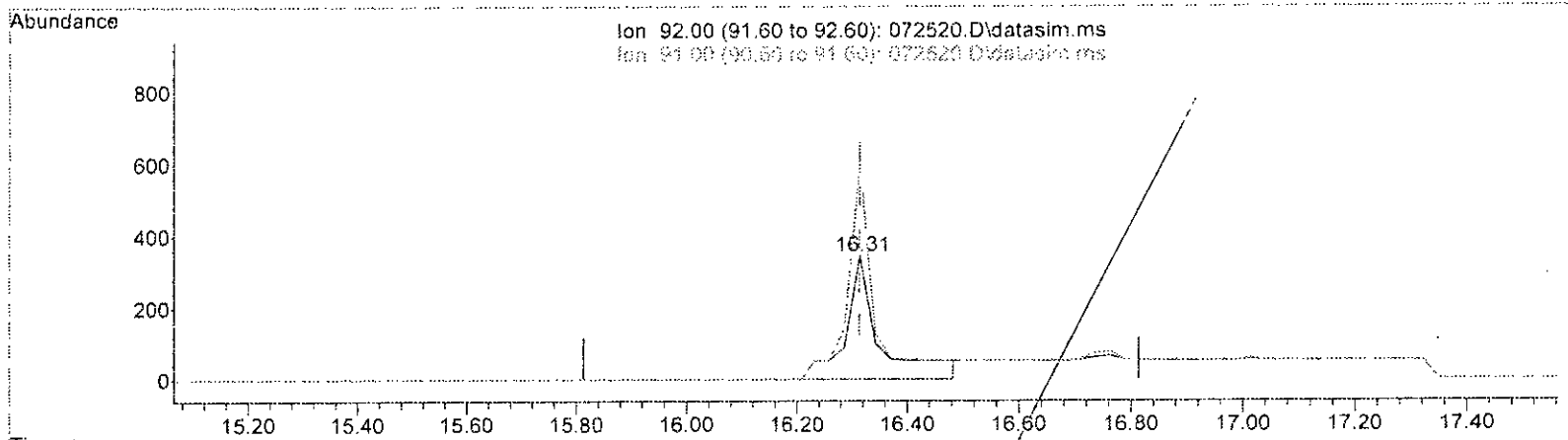
response	518	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	41.70
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

(50) Toluene (TMP)

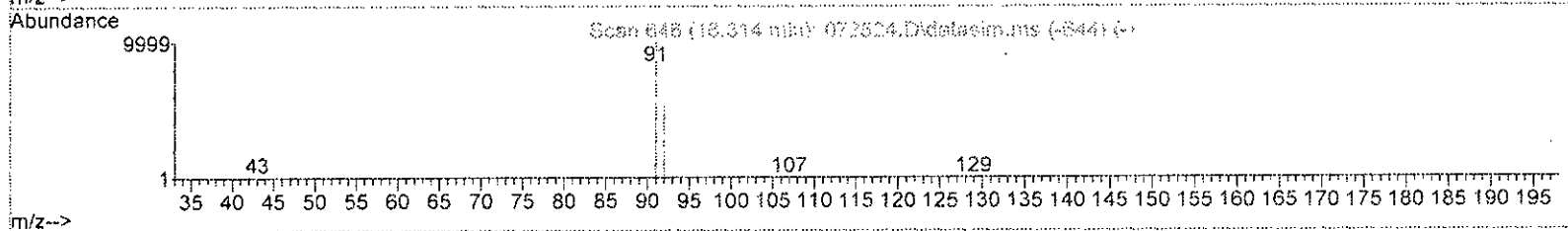
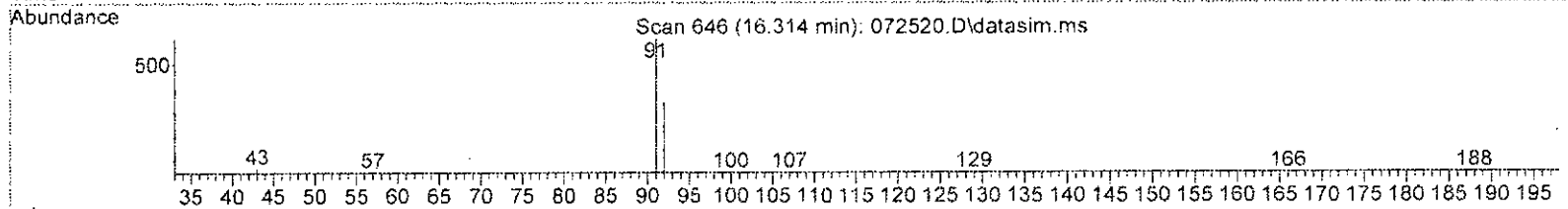
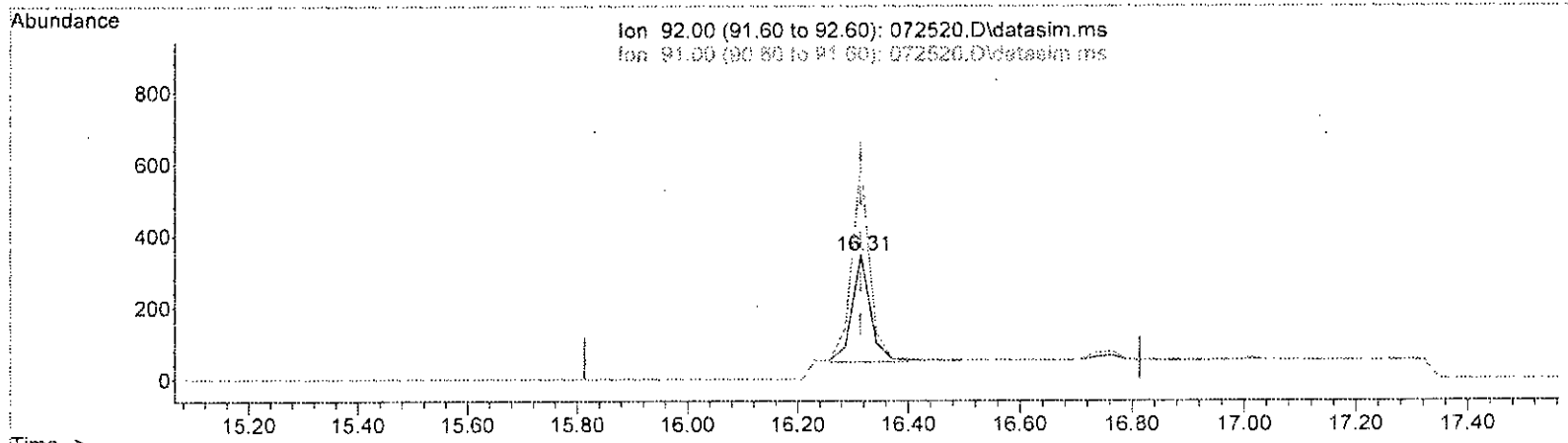
16.314min (+ 0.000)	0.214 ppbv	
response	1455	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	175.87
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv TO15 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072520.D\data.ms

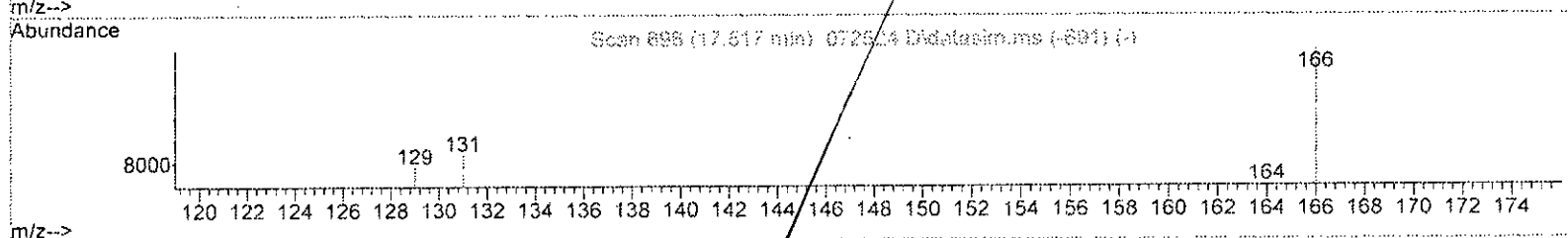
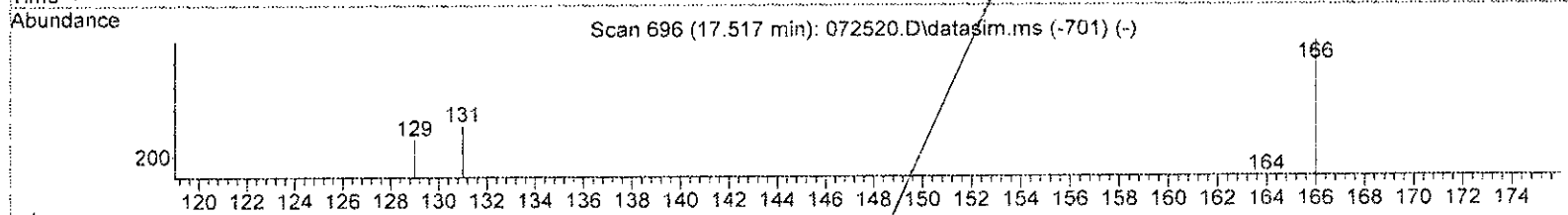
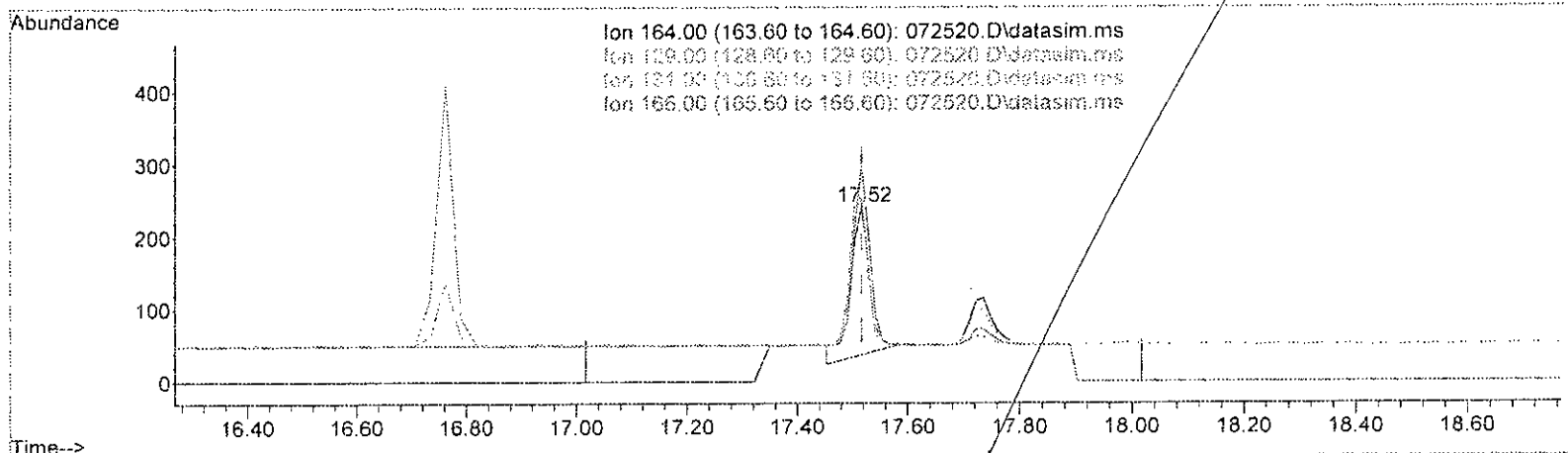
(50) Toluene (TMP)		
16.314min (+ 0.000)	0.100 ppbv m	
response	678	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	175.87
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	108.90
131.00	100.70	112.57
166.00	137.50	130.89

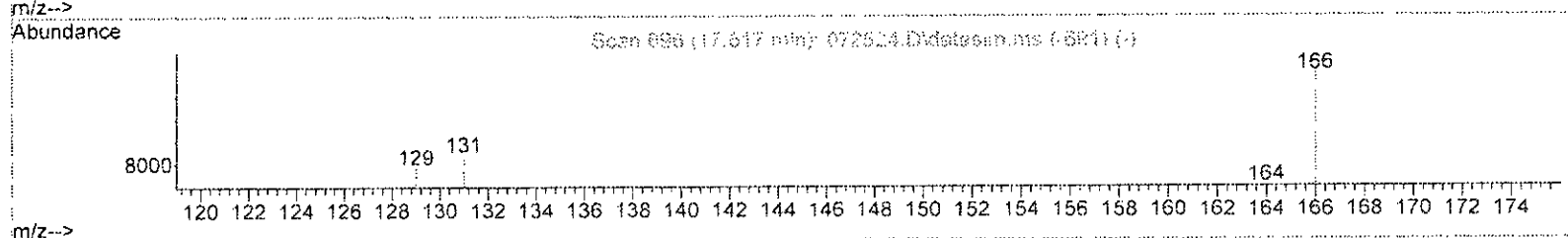
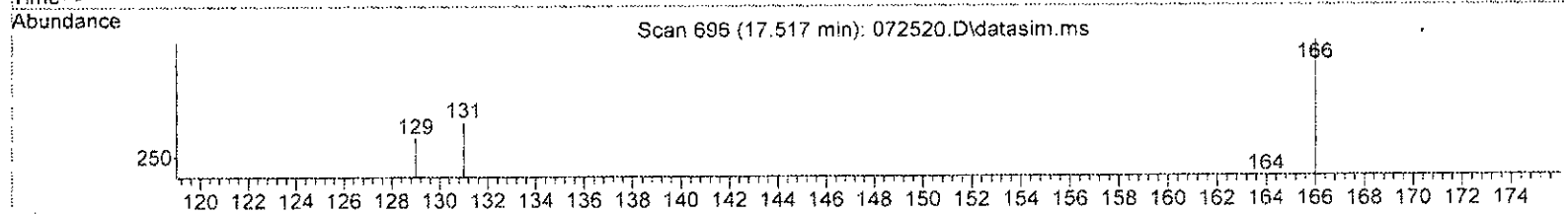
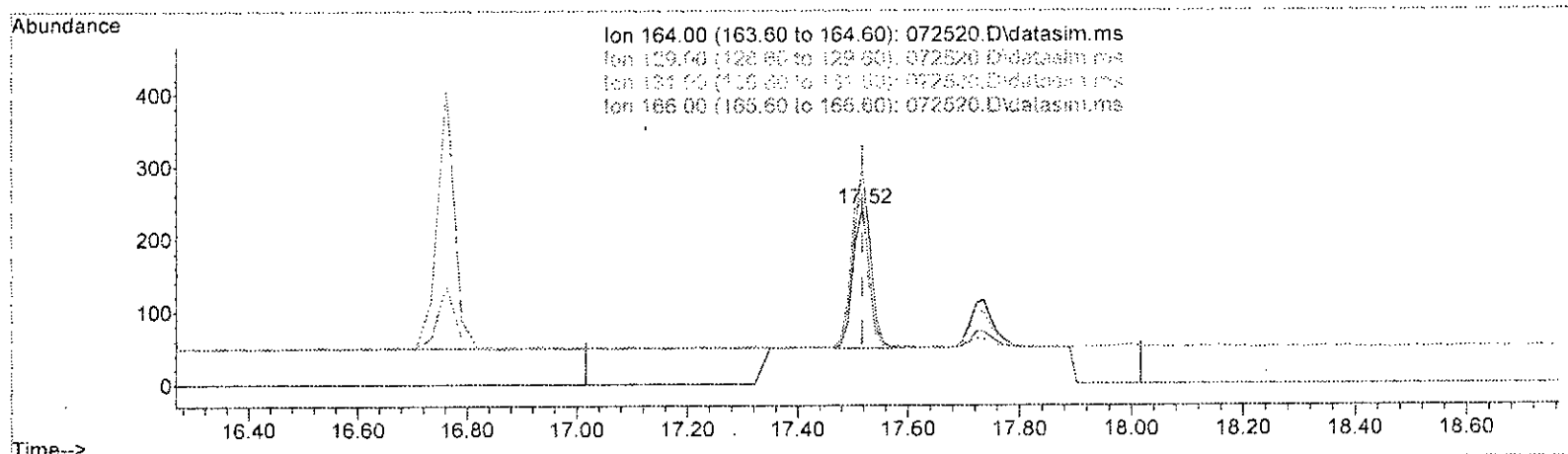
(53) Tetrachloroethene (TMP)  
 17.517min (-0.000) 0.122 ppbv  
 response 489

*Handwritten signature: g/ly*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (-0.000) 0.099 ppbv m

response 397

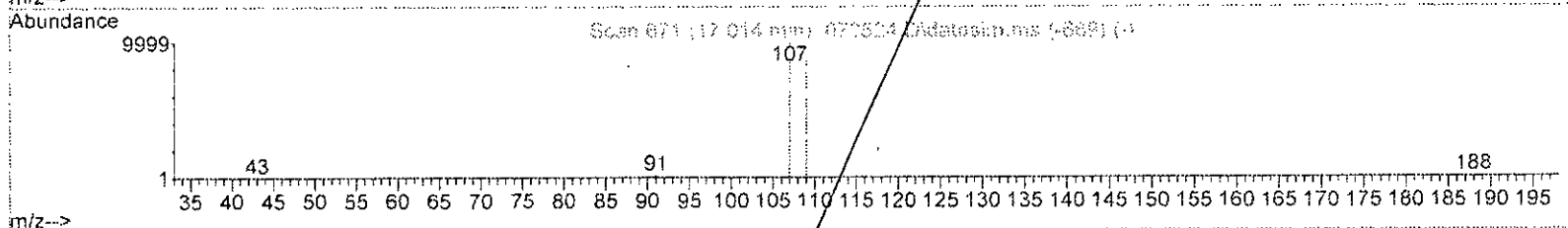
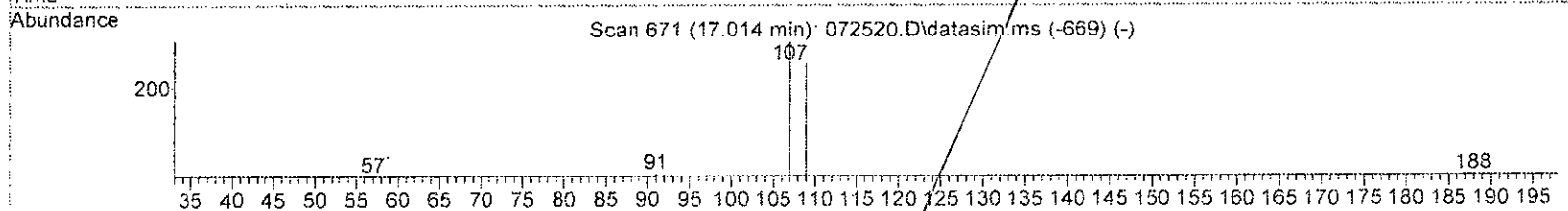
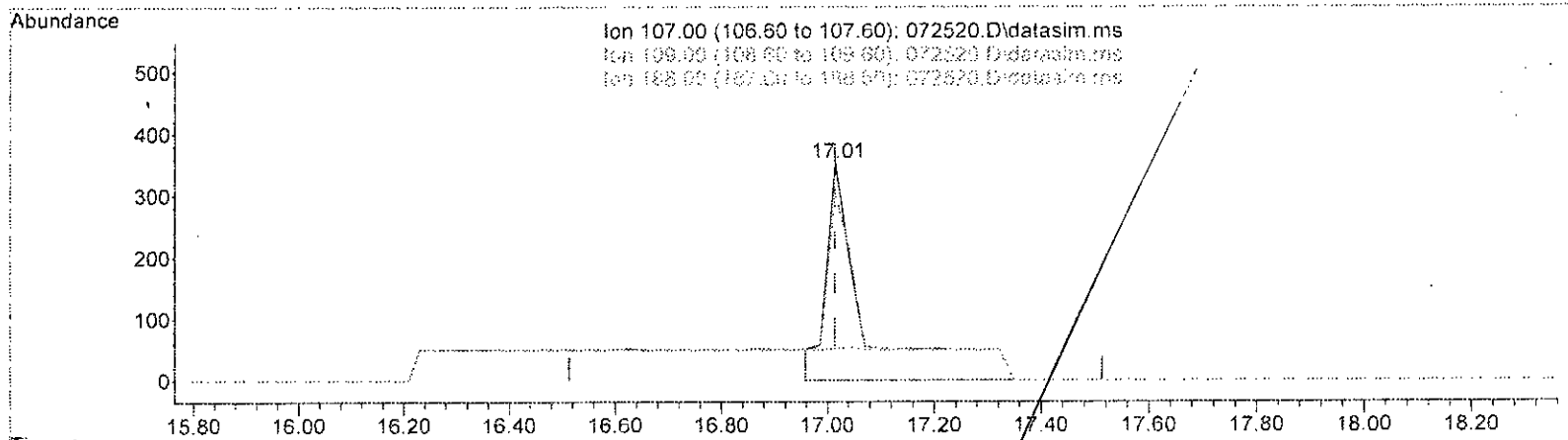
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	107.05
131.00	100.70	109.96
166.00	137.50	124.48

*Handwritten signature: G. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv TO15 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072520.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 0.222 ppbv

response 1806

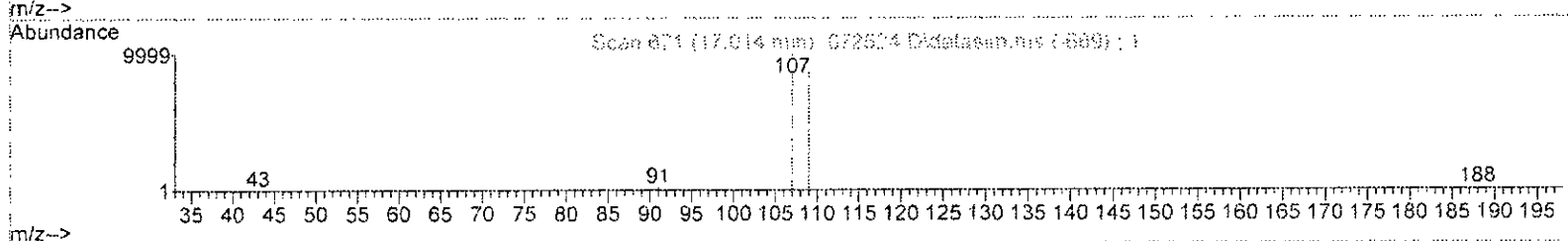
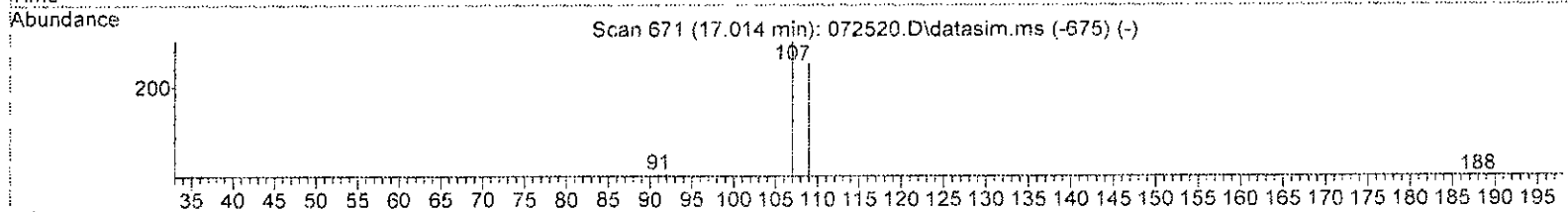
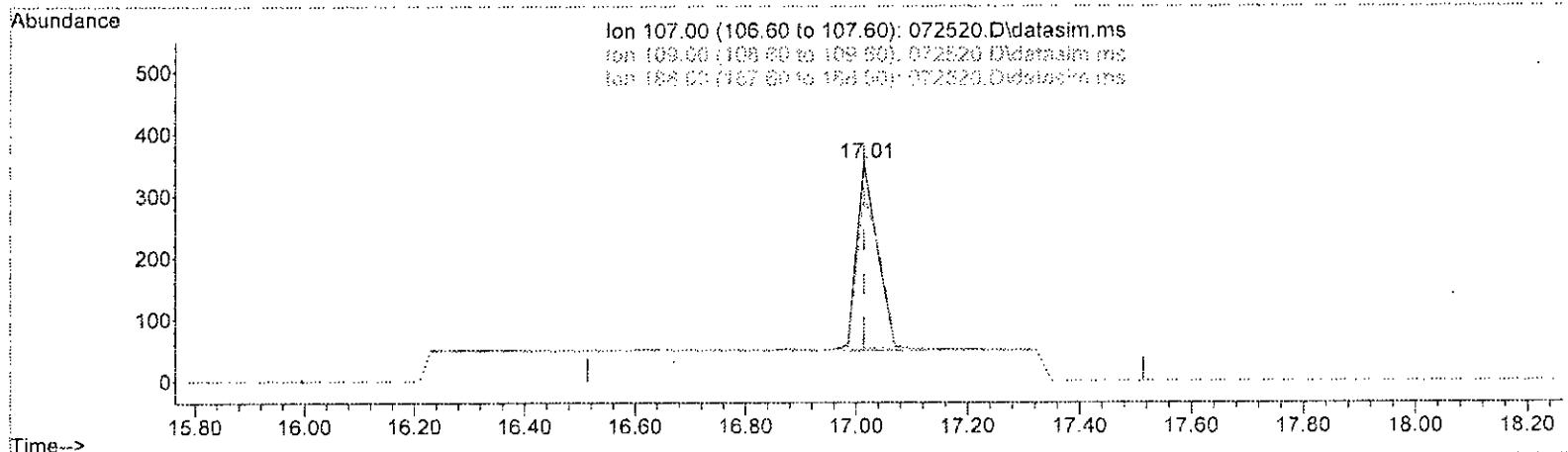
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	86.12
188.00	2.70	14.45
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv TO15 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072520.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 0.097 ppbv m

response 788

Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	86.12
188.00	2.70	14.45
0.00	0.00	0.00

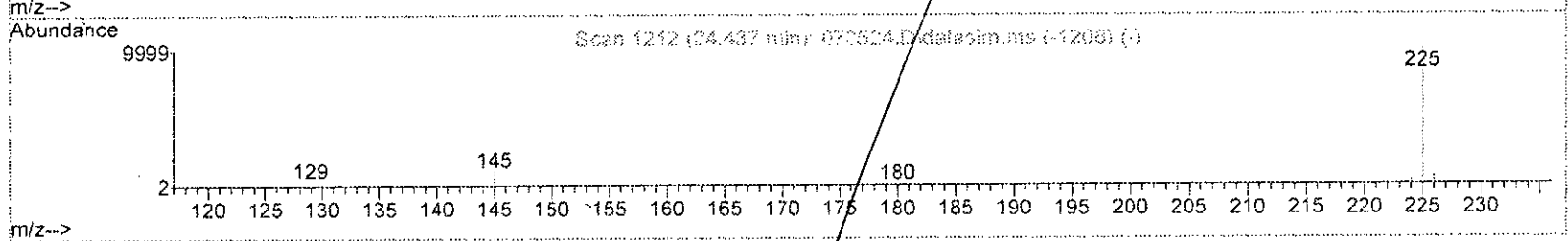
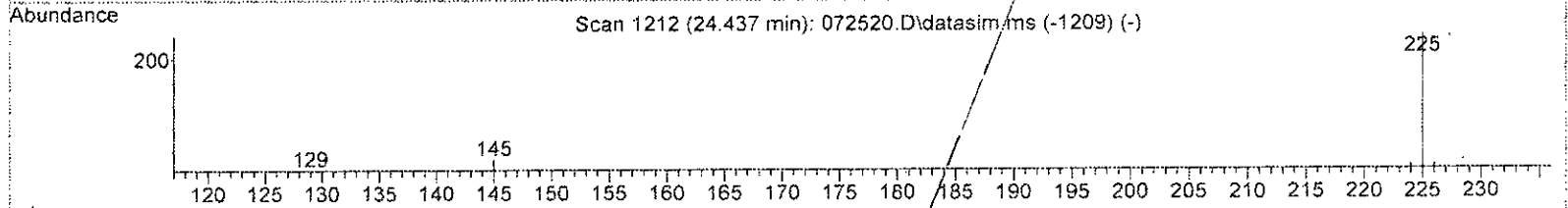
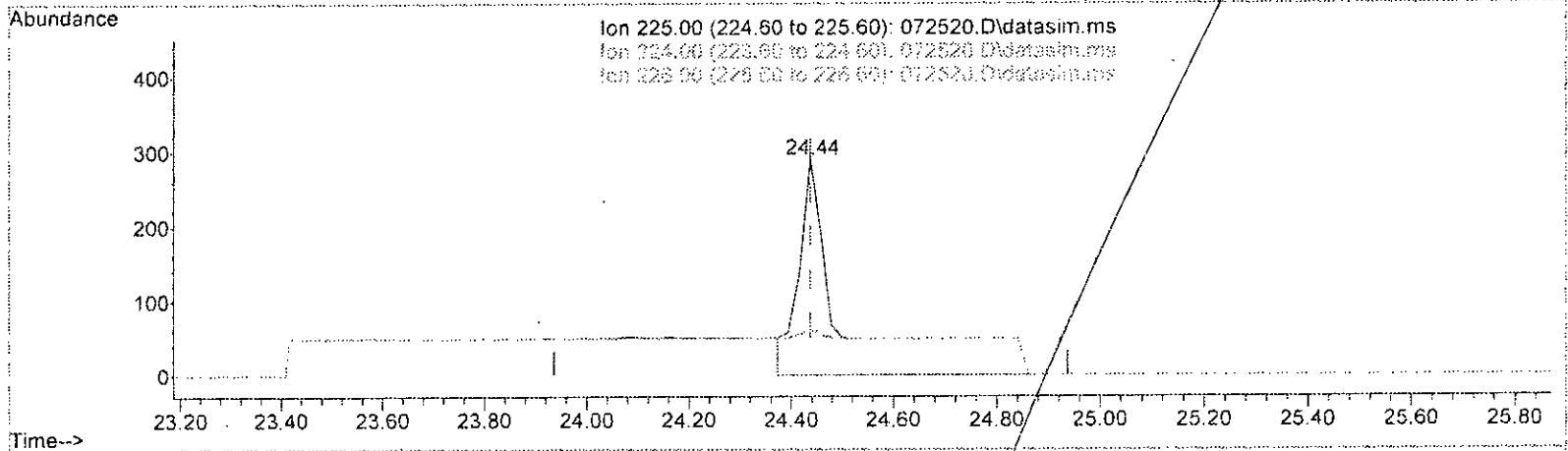
*W/13/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv TO15 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072520.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.437min (-0.000) 0.313 ppbv

response 1953

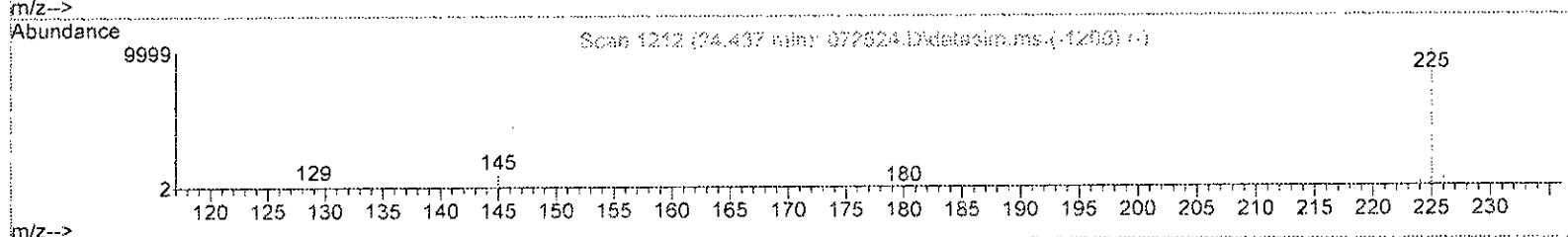
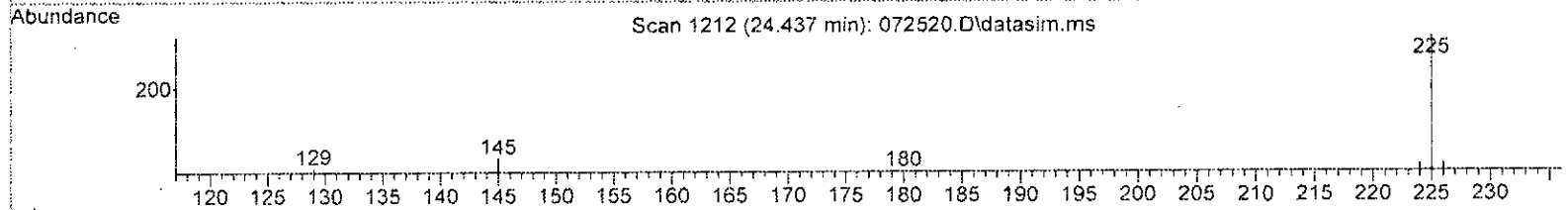
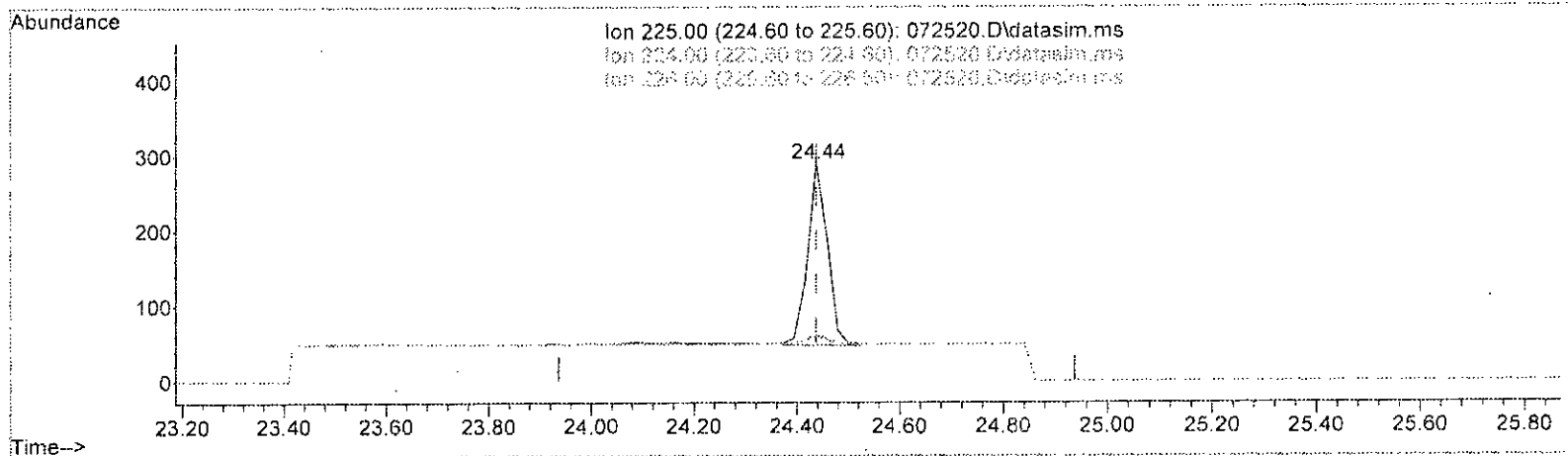
Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	21.03
226.00	5.20	21.38
0.00	0.00	0.00

*Handwritten signature: bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072520.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.437min (-0.000) 0.103 ppbv m

response	644	
Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	21.03
226.00	5.20	21.38
0.00	0.00	0.00

*Handwritten signature: W. H. H.*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	20553	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	89346	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	75025	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	55031	9.899	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.		
3) Dichlorodifluoromethane	3.49	85	1011	0.100	ppbv #	42
4) Chloromethane	3.69	50	447	0.127	ppbv	92
5) F-114	3.88	85	384	0.044	ppbv #	25
6] Vinyl chloride	4.01	62	384	0.096	ppbv	96
7] 1,3-Butadiene	4.21	54	238	0.093	ppbv #	92
8) Butane	0.00		0	N.D.		
9) Bromomethane	0.00		0	N.D.		
10] Chloroethane	4.80	64	148	0.104	ppbv	97
11] Vinyl bromide	5.26	106	339m	0.096	ppbv	
12) Ethanol	0.00		0	N.D.		
13] Acrolein	5.41	56	130m	0.087	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.		
17) 2-Propanol	0.00		0	N.D.	d	
18] 1,1-Dichloroethene	6.63	96	339	0.101	ppbv #	65
19] trans-1,2-Dichloroethene	8.07	96	328	0.098	ppbv	85
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	7.15	101	535	0.074	ppbv #	63
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27] 1,1-Dichloroethane	8.33	63	721	0.098	ppbv	95
28] cis-1,2-Dichloroethene	9.60	96	374	0.103	ppbv	83
29) Hexane	0.00		0	N.D.	d	
30] Chloroform	10.07	83	838	0.097	ppbv	98
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.		
33) 2-Butanone (MEK)	0.00		0	N.D.		
34] 1,2-Dichloroethane (EDC)	11.30	62	551	0.095	ppbv	97
35] 1,1,1-Trichloroethane	11.79	97	691	0.098	ppbv	93
36] Carbon tetrachloride	12.84	117	710	0.098	ppbv	99
37] Benzene	12.58	78	1139m	0.099	ppbv	
38) Cyclohexane	0.00		0	N.D.		
40] 1,2-Dichloropropane	13.77	63	518m	0.094	ppbv	

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

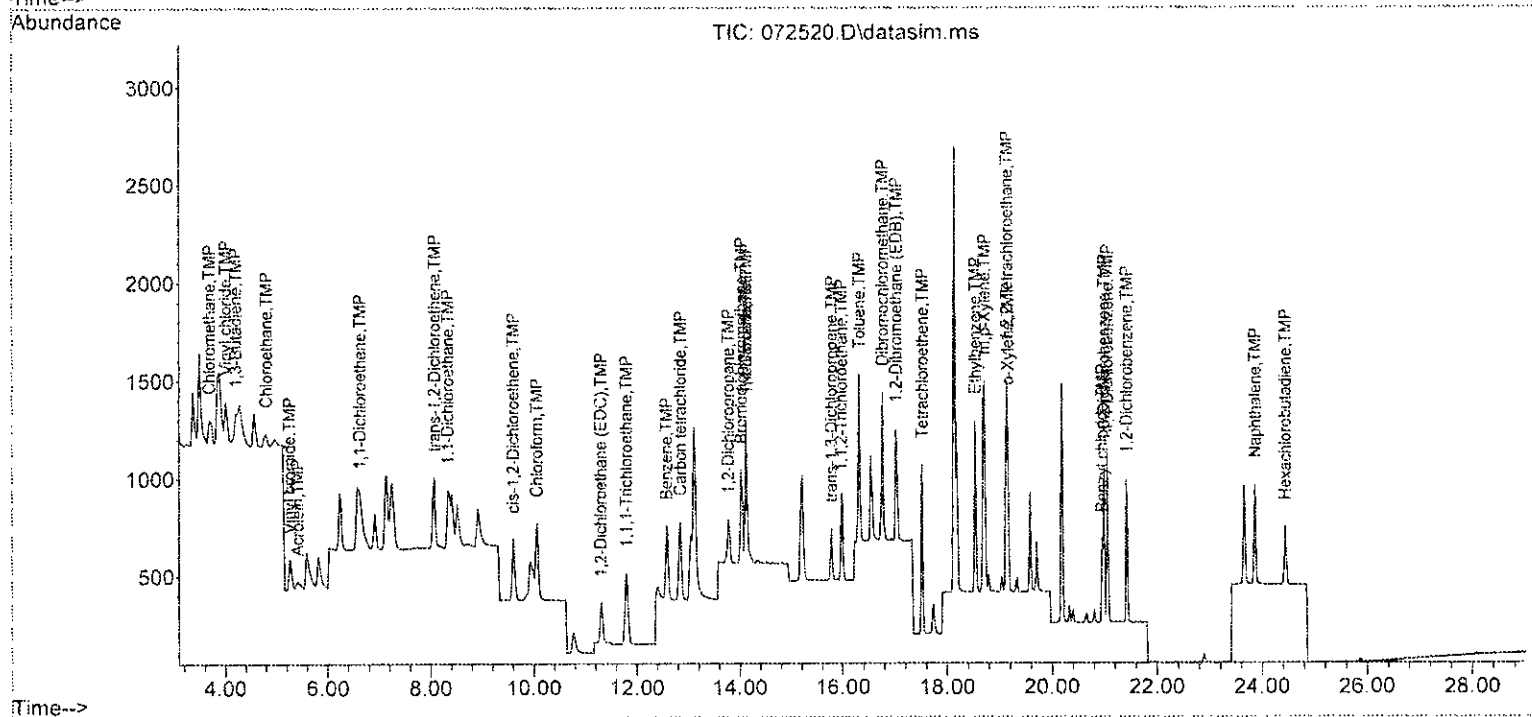
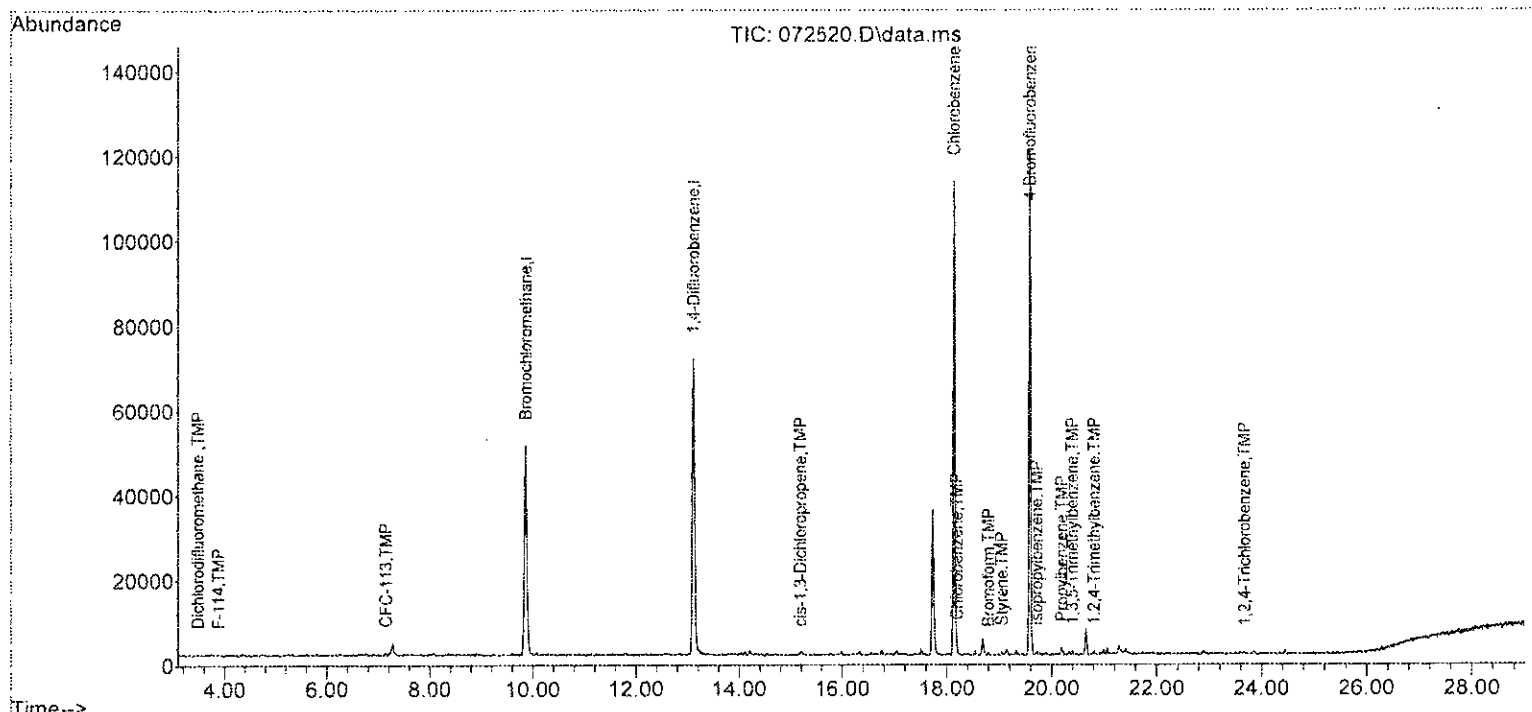
Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.12	88	202	0.097	ppbv	97
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45] Bromodichloromethane	14.02	83	852	0.095	ppbv	99
46] Trichloroethene	14.12	95	561	0.098	ppbv	94
47) cis-1,3-Dichloropropene	15.18	75	637	0.106	ppbv	63
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49] trans-1,3-Dichloropropene	15.78	75	511	0.094	ppbv	96
50] Toluene	16.31	92	678m	0.100	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	491	0.095	ppbv	99
52) 2-Hexanone	0.00		0	N.D.	d	
53] Tetrachloroethene	17.52	164	397m	0.099	ppbv	
54] Dibromochloromethane	16.76	129	781	0.095	ppbv	94
55] 1,2-Dibromoethane (EDB)	17.01	107	788m	0.097	ppbv	
57) Chlorobenzene	18.19	112	790	0.099	ppbv #	77
58] Ethylbenzene	18.53	91	1333	0.099	ppbv	100
59] 1,1,2,2-Tetrachloroethane	19.13	83	1137	0.100	ppbv	95
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	19.72	105	1066	0.091	ppbv #	53
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63] Propylbenzene	20.19	91	2498	0.103	ppbv	92
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	909	0.200	ppbv	99
66] o-Xylene	19.15	106	420	0.101	ppbv	95
67) Styrene	19.05	104	487	0.085	ppbv	98
68) Bromoform	18.80	173	527	0.079	ppbv	86
70] Benzyl chloride	20.95	91	674	0.096	ppbv	90
71) 1,3,5-Trimethylbenzene	20.39	105	835	0.084	ppbv	86
72) 1,2,4-Trimethylbenzene	20.81	105	635	0.073	ppbv	88
73] 1,3-Dichlorobenzene	20.99	146	729	0.100	ppbv	92
74] 1,4-Dichlorobenzene	21.05	146	697	0.103	ppbv	90
75] 1,2-Dichlorobenzene	21.41	146	710	0.101	ppbv	94
76) 1,2,4-Trichlorobenzene	23.67	180	397	0.090	ppbv #	68
77] Naphthalene	23.86	128	1040	0.133	p-phv	99
78] Hexachlorobutadiene	24.44	225	644m	0.103	ppbv	

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	0.100	0.000	100.0#	0	-3.41#
3 TMP Dichlorodifluoromethane	0.100	0.100	0.0	100	0.00
4 TMP Chloromethane	0.100	0.127	-27.0	100	0.00
5 TMP F-114	0.100	0.044	56.0#	100	0.00
6 TMP Vinyl chloride	0.100	0.096	4.0	100	0.00
7 TMP 1,3-Butadiene	0.100	0.093	7.0	100	0.00
8 TMP Butane	-1.000	0.000	0.0	0	-4.28#
9 TMP Bromomethane	0.100	0.000	100.0#	0	-4.56#
10 TMP Chloroethane	0.100	0.104	-4.0	106	0.00
11 TMP Vinyl bromide	0.100	0.096	4.0	95	0.00
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.92#
13 TMP Acrolein	0.100	0.087	13.0	84	0.04
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	0.100	0.000	100.0#	0	-5.80#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.54#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.100	0.101	-1.0	100	-0.03
19 TMP trans-1,2-Dichloroethene	0.100	0.098	2.0	100	0.00
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.78#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.93#
23 TMP CFC-113	0.100	0.074	26.0	100	0.00
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.25#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.41#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.51#
27 TMP 1,1-Dichloroethane	0.100	0.098	2.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.100	0.103	-3.0	100	0.00
29 TMP Hexane	-1.000	0.000	0.0	0	-9.99#
30 TMP Chloroform	0.100	0.097	3.0	100	0.00
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.90#
32 TMP Tetrahydrofuran	0.100	0.000	100.0#	0	-10.72#
33 TMP 2-Butanone (MEK)	0.100	0.000	100.0#	0	-8.88#
34 TMP 1,2-Dichloroethane (EDC)	0.100	0.095	5.0	100	0.00
35 TMP 1,1,1-Trichloroethane	0.100	0.098	2.0	100	0.00
36 TMP Carbon tetrachloride	0.100	0.098	2.0	100	0.00
37 TMP Benzene	0.100	0.099	1.0	100	0.00
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.04#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.100	0.094	6.0	98	0.00
41 TMP 1,4-Dioxane	0.100	0.097	3.0	100	0.05
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.21#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.53#
45 TMP Bromodichloromethane	0.100	0.095	5.0	100	0.00
46 TMP Trichloroethene	0.100	0.098	2.0	100	0.00
47 TMP cis-1,3-Dichloropropene	0.100	0.106	-6.0	100	0.00
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.21#
49 TMP trans-1,3-Dichloropropene	0.100	0.094	6.0	100	0.00
50 TMP Toluene	0.100	0.100	0.0	105	0.00
51 TMP 1,1,2-Trichloroethane	0.100	0.095	5.0	100	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	0.100	0.099	1.0	101	0.00
54 TMP Dibromochloromethane	0.100	0.095	5.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.100	0.097	3.0	99	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.100	0.099	1.0	100	0.00
58 TMP Ethylbenzene	0.100	0.099	1.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.100	0.100	0.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.32#
61 TMP Isopropylbenzene	0.100	0.091	9.0	100	0.00
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	0.100	0.103	-3.0	100	0.00
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.33#
65 TMP m,p-Xylene	0.200	0.200	0.0	100	0.00
66 TMP o-Xylene	0.100	0.101	-1.0	100	0.00
67 TMP Styrene	0.100	0.085	15.0	100	0.00
68 TMP Bromoform	0.100	0.079	21.0	100	0.00
69 S 4-Bromofluorobenzene	10.000	9.899	1.0	100	0.00
70 TMP Benzyl chloride	0.100	0.096	4.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	0.100	0.084	16.0	100	0.00
72 TMP 1,2,4-Trimethylbenzene	0.100	0.073	27.0	100	0.00
73 TMP 1,3-Dichlorobenzene	0.100	0.100	0.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.100	0.103	-3.0	100	0.00
75 TMP 1,2-Dichlorobenzene	0.100	0.101	-1.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.100	0.090	10.0	100	0.00
77 TMP Naphthalene	0.100	0.133	-33.0#	100	0.00
78 TMP Hexachlorobutadiene	0.100	0.103	-3.0	99	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP	Propene	1.221	0.000	100.0#	0#	-3.41#
3 TMP	Dichlorodifluoromethane	4.917	4.919	-0.0	100	0.00
4 TMP	Chloromethane	1.713	2.175	-27.0	100	0.00
5 TMP	F-114	4.288	1.868	56.4#	100	0.00
6 TMP	Vinyl chloride	1.937	1.868	3.6	100	0.00
7 TMP	1,3-Butadiene	1.242	1.158	6.8	100	0.00
8 TMP	Butane	2.483	0.000	100.0#	0#	-4.28#
9 TMP	Bromomethane	1.711	0.000#	100.0#	0#	-4.56#
10 TMP	Chloroethane	0.689	0.720	-4.5	106	0.00
11 TMP	Vinyl bromide	1.725	1.649	4.4	95	0.00
12 TMP	Ethanol	0.543	0.000	100.0#	0#	-4.92#
13 TMP	Acrolein	0.729	0.633	13.2	84	0.04
14 TMP	Pentane	2.839	0.000#	100.0#	0#	-6.25#
15 TMP	Trichlorofluoromethane	4.796	0.000#	100.0#	0#	-5.80#
16 TMP	Acetone	0.670	0.000#	100.0#	0#	-5.54#
17 TMP	2-Propanol	2.930	0.000	100.0#	0#	-5.78#
18 TMP	1,1-Dichloroethene	1.641	1.649	-0.5	100	-0.03
19 TMP	trans-1,2-Dichloroethene	1.625	1.596	1.8	100	0.00
20 TMP	Methylene chloride	1.604	0.000#	100.0#	0#	-6.78#
21 TMP	t-Butyl alcohol (TBA)	2.544	0.000	100.0#	0#	-6.57#
22 TMP	3-Chloropropene	2.076	0.000	100.0#	0#	-6.93#
23 TMP	CFC-113	3.525	2.603	26.2	100	0.00
24 TMP	Carbon disulfide	5.324	0.000	100.0#	0#	-7.25#
25 TMP	Methyl t-butyl ether (MTBE)	3.467	0.000#	100.0#	0#	-8.41#
26 TMP	Vinyl acetate	3.863	0.000#	100.0#	0#	-8.51#
27 TMP	1,1-Dichloroethane	3.597	3.508	2.5	100	0.00
28 TMP	cis-1,2-Dichloroethene	1.774	1.820	-2.6	100	0.00
29 TMP	Hexane	2.181	0.000	100.0#	0#	-9.99#
30 TMP	Chloroform	4.186	4.077	2.6	100	0.00
31 TMP	Ethyl acetate	3.859	0.000	100.0#	0#	-9.90#
32 TMP	Tetrahydrofuran	1.822	0.000	100.0#	0#	-10.72#
33 TMP	2-Butanone (MEK)	0.597	0.000	100.0#	0#	-8.88#
34 TMP	1,2-Dichloroethane (EDC)	2.835	2.681	5.4	100	0.00
35 TMP	1,1,1-Trichloroethane	3.417	3.362	1.6	100	0.00
36 TMP	Carbon tetrachloride	3.530	3.454	2.2	100	0.02
37 TMP	Benzene	5.604	5.542	1.1	100	0.00
38 TMP	Cyclohexane	1.400	0.000	100.0#	0#	-13.04#
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.619	0.580	6.3	98	0.00
41 TMP	1,4-Dioxane	0.233	0.226	3.0	100	0.05
42 TMP	2,2,4-Trimethylpentane	1.831	0.000	100.0#	0#	-14.21#
43 TMP	Methyl methacrylate	0.534	0.000	100.0#	0#	-14.34#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072520.D  
 Acq On : 26 Jul 2023 12:50 am  
 Operator : bat  
 Sample : 0.1 ppbv T015 69-157-c  
 Misc : T4  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:19 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.000	100.0#	0#	-14.53#
45 TMP Bromodichloromethane	1.004	0.954	5.0	100	0.00
46 TMP Trichloroethene	0.642	0.628	2.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.713	-6.3	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.000	100.0#	0#	-15.21#
49 TMP trans-1,3-Dichloropropene	0.606	0.572	5.6	100	0.00
50 TMP Toluene	0.761	0.759	0.3	105	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.550	5.0	100	0.00
52 TMP 2-Hexanone	0.834	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.450	0.444	1.3	101	0.00
54 TMP Dibromochloromethane	0.923	0.874	5.3	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.882	3.2	99	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.053	1.5	100	0.00
58 TMP Ethylbenzene	1.800	1.777	1.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.515	-0.1	100	0.00
60 TMP Nonane	0.879	0.000	100.0#	0#	-19.32#
61 TMP Isopropylbenzene	1.553	1.421	8.5	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.242	3.330	-2.7	100	0.00
64 TMP 4-Ethyltoluene	1.485	0.000	100.0#	0#	-20.33#
65 TMP m,p-Xylene	0.607	0.606	0.2	100	0.00
66 TMP o-Xylene	0.554	0.560	-1.1	100	0.00
67 TMP Styrene	0.767	0.649	15.4	100	0.00
68 TMP Bromoform	0.895	0.702	21.6	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.734	0.9	100	0.00
70 TMP Benzyl chloride	0.931	0.898	3.5	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.113	16.0	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	0.846	27.3	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.972	0.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.929	-3.2	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.946	-1.1	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.529	10.3	100	0.00
77 TMP Naphthalene	1.053	1.386	-31.6#	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.858	-3.2	99	0.00

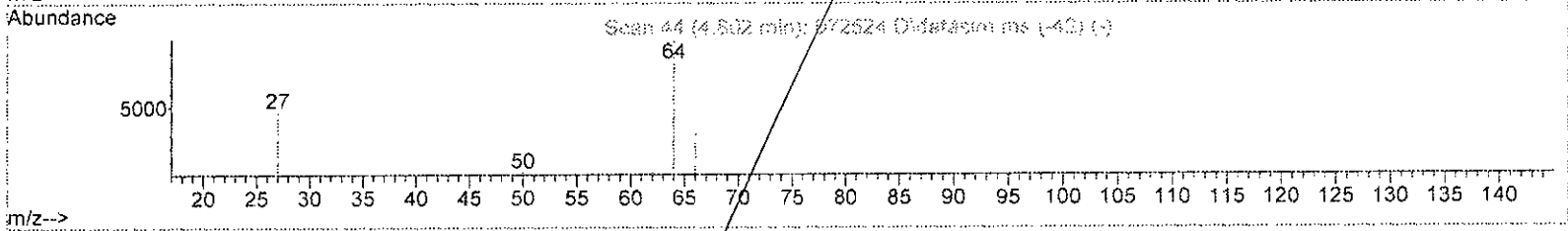
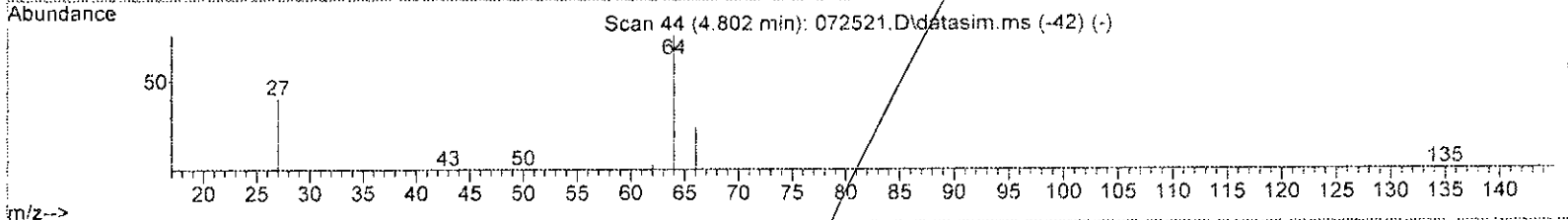
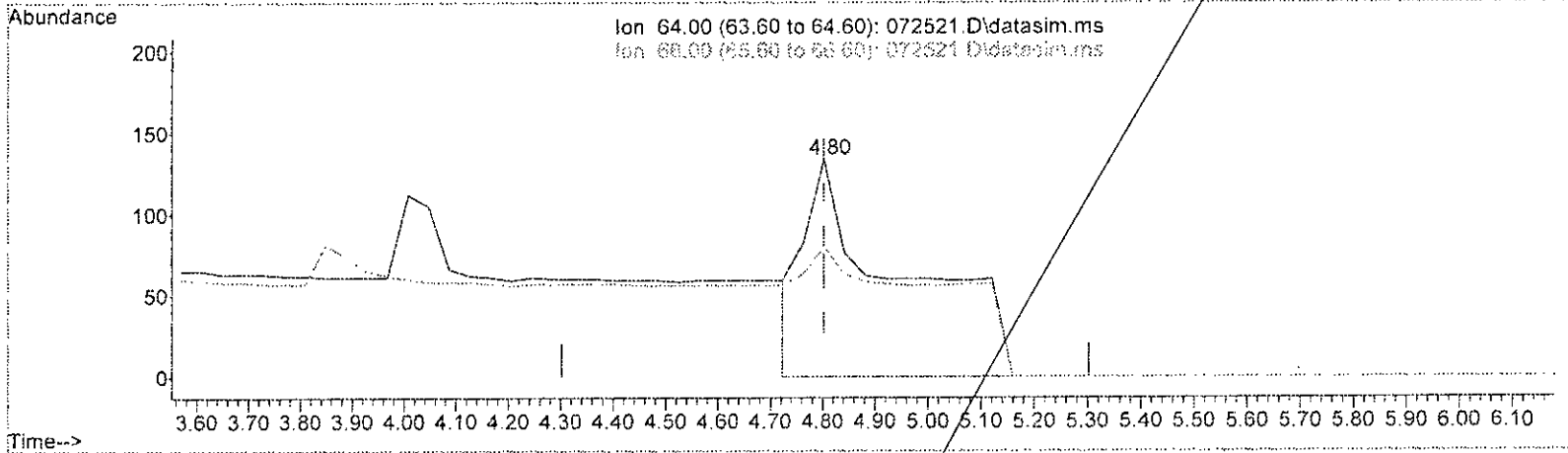
(#) = Out of Range

SPCC's out = 8 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : TS  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 1.171 ppbv

response 1626

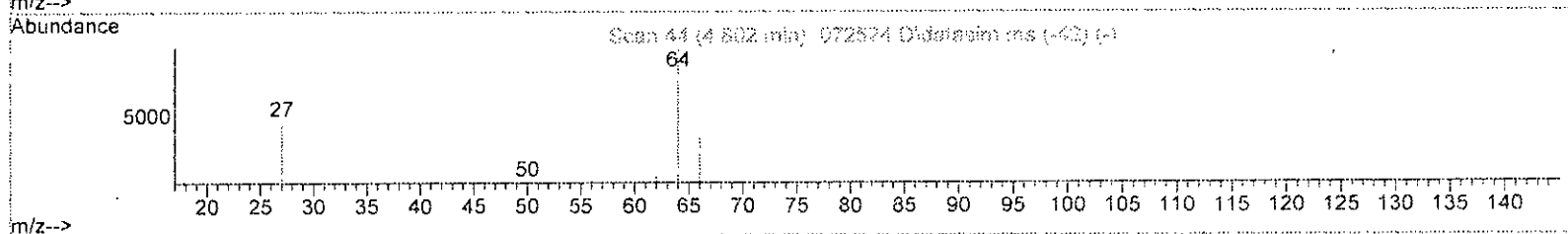
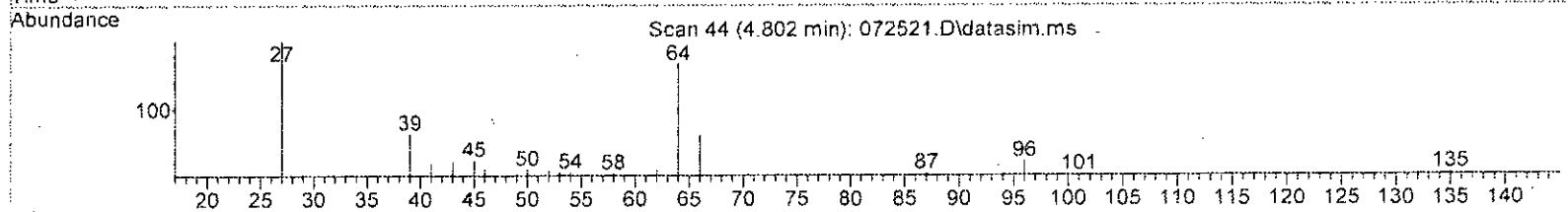
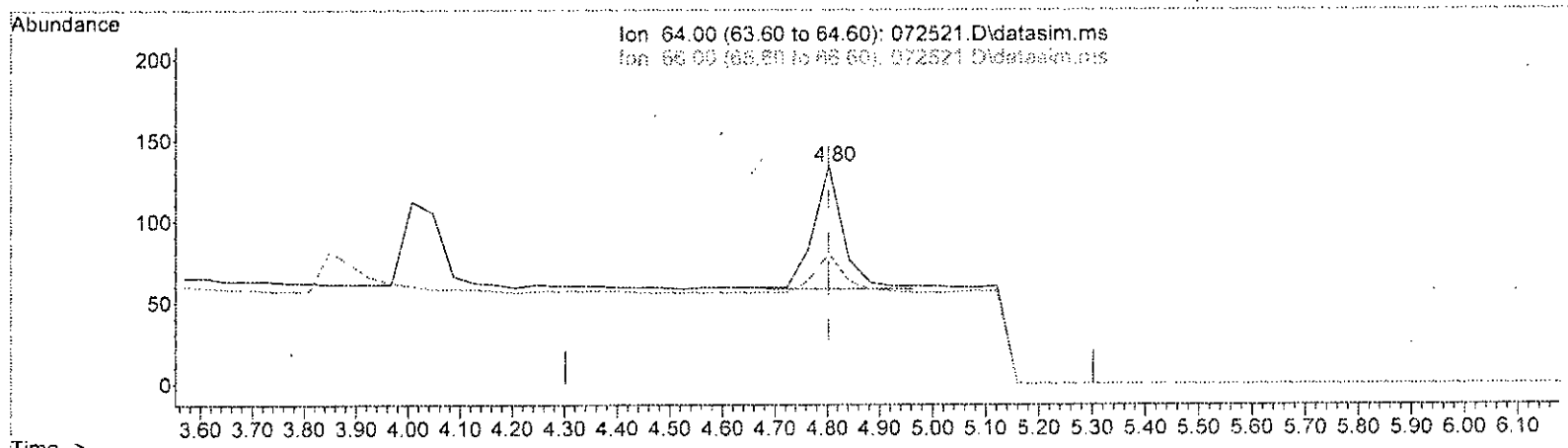
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	59.70
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten:* 6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072521.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 0.218 ppbv m

response 303

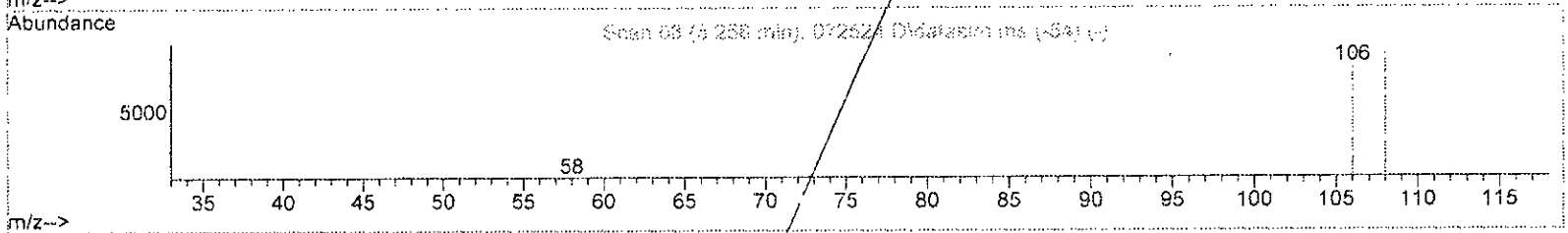
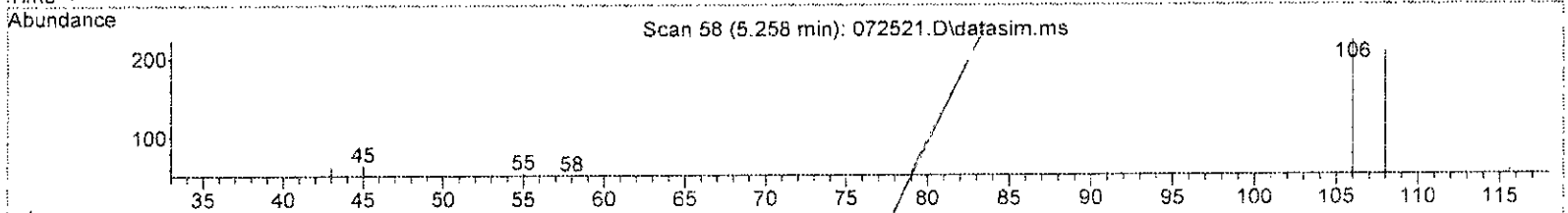
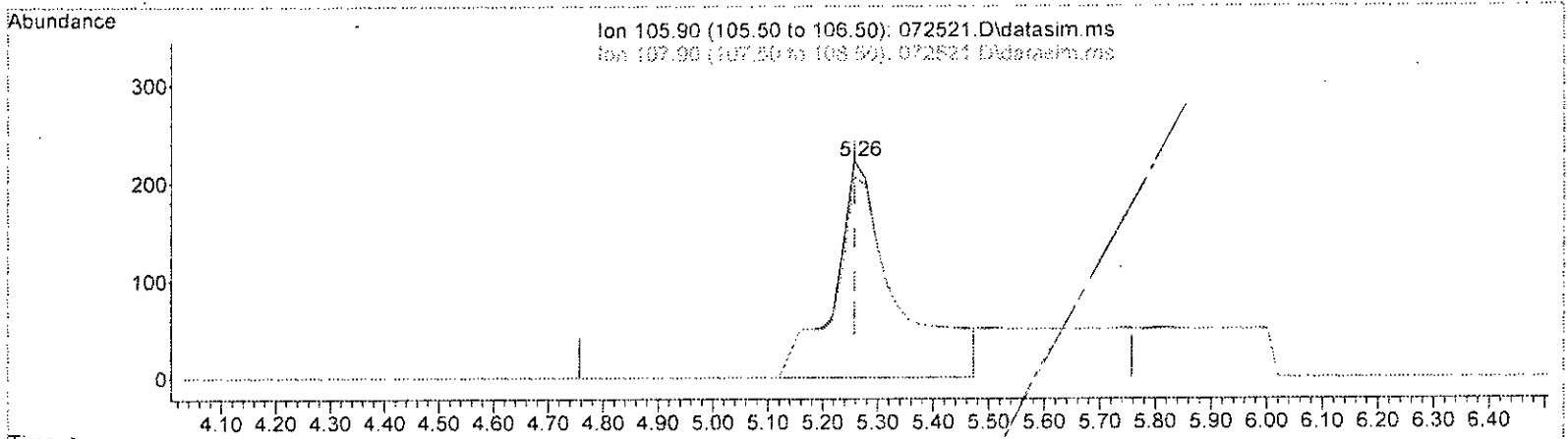
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	59.70
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature:* 2/3/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

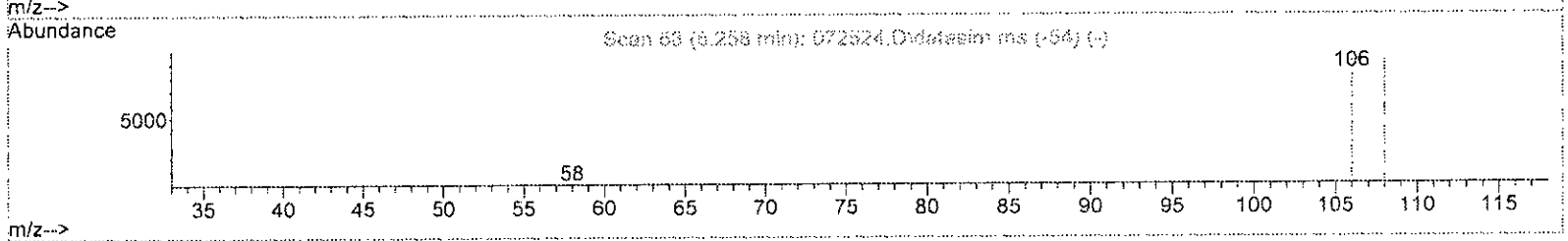
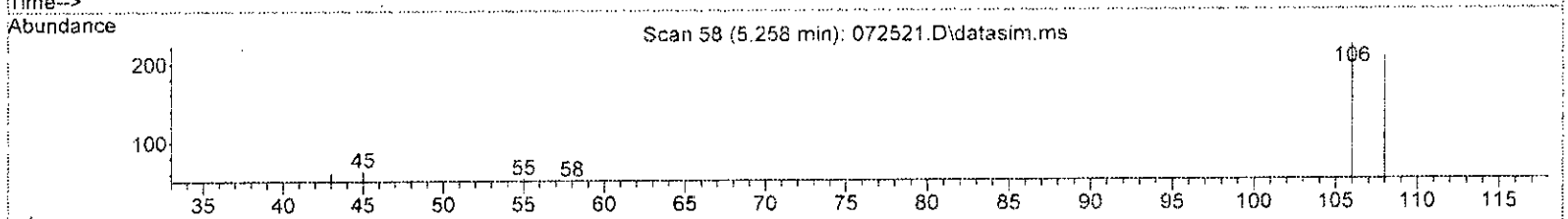
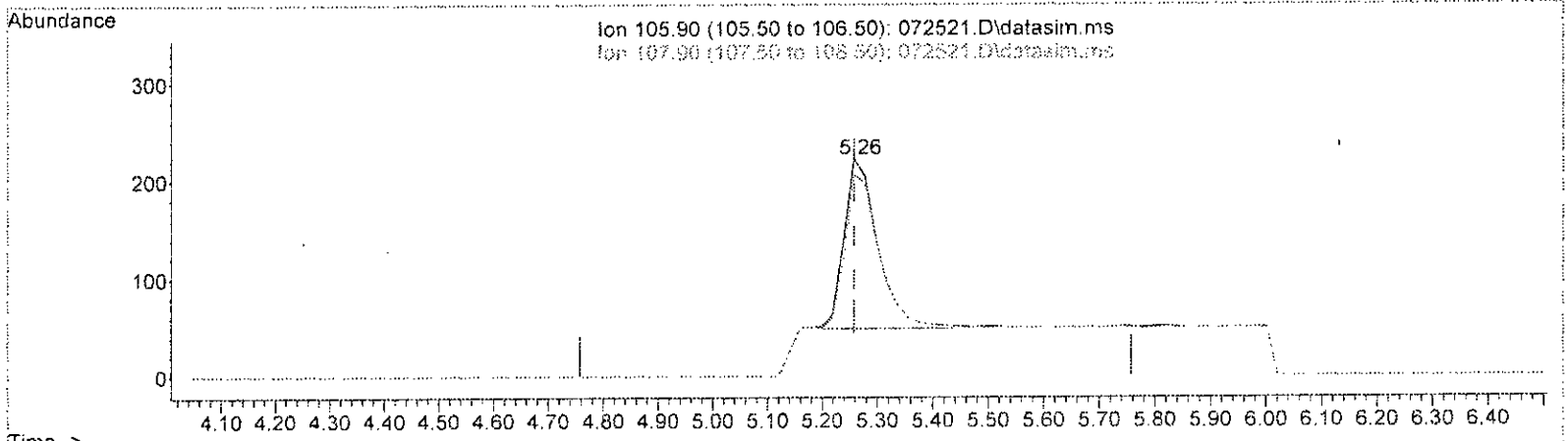
(11) Vinyl bromide (TMP)			
5.258min (-0.000)	0.549	ppbv	
response	1907		
Ion	Exp%	Act%	
105.90	100.00	100.00	
107.90	94.10	126.27#	
0.00	0.00	0.00	
0.00	0.00	0.00	

7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\072STO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072521.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 0.209 ppbv m

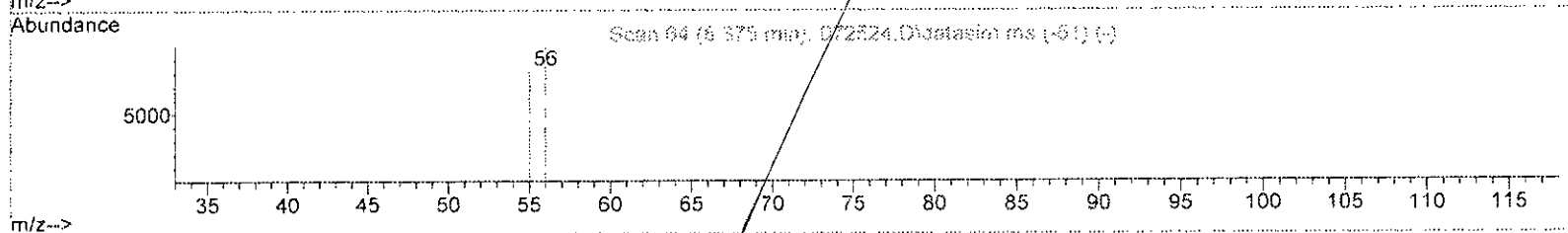
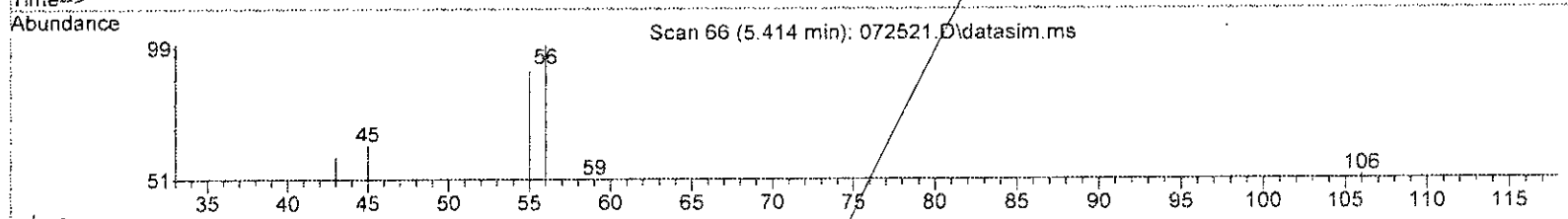
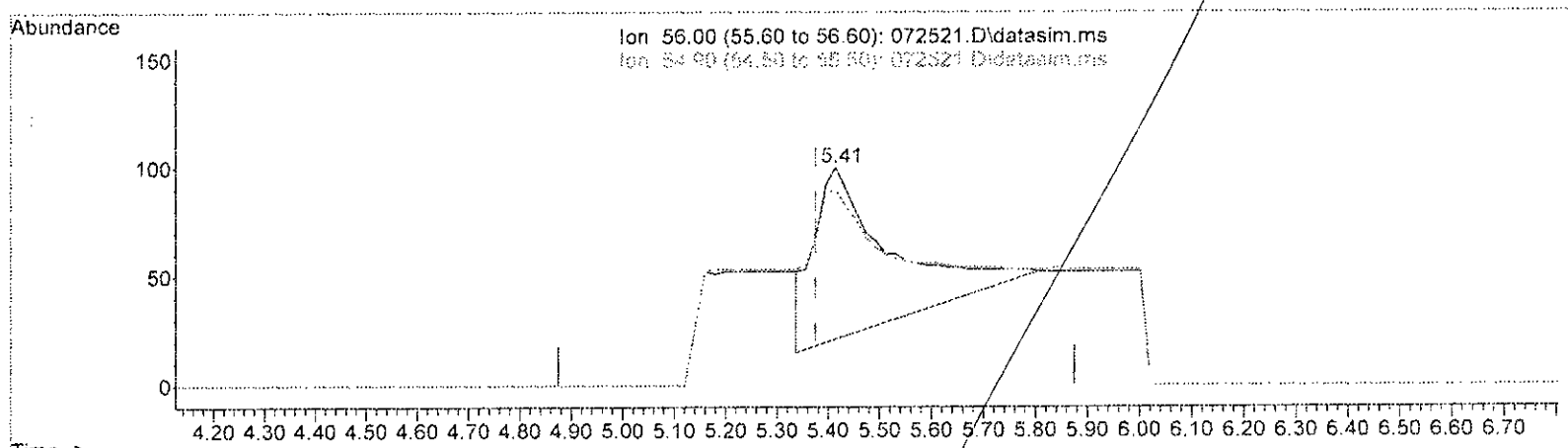
response	725
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 332.14#
0.00	0.00 0.00
0.00	0.00 0.00

*V*  
*7/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(13) Acrolein (TMP)

5.414min (+ 0.039) 0.551 ppbv

response 809

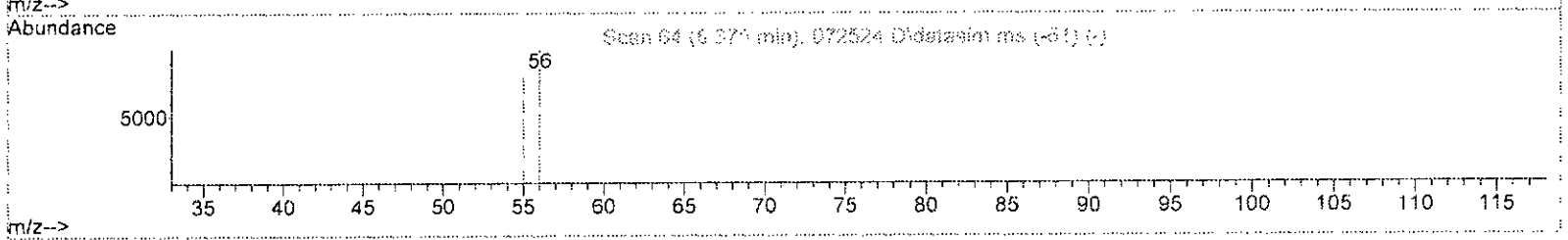
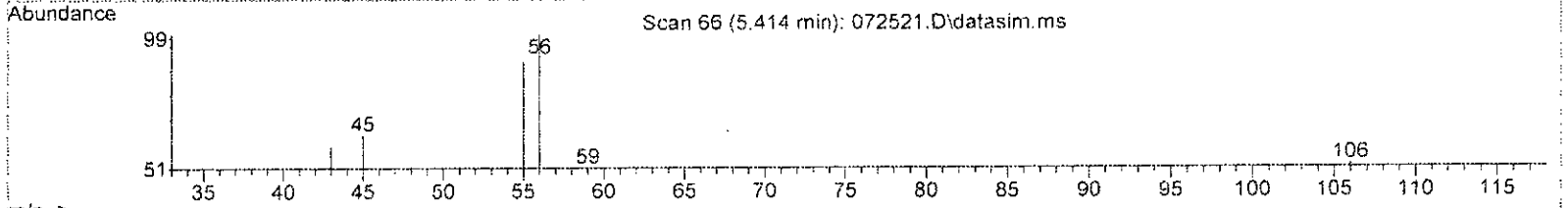
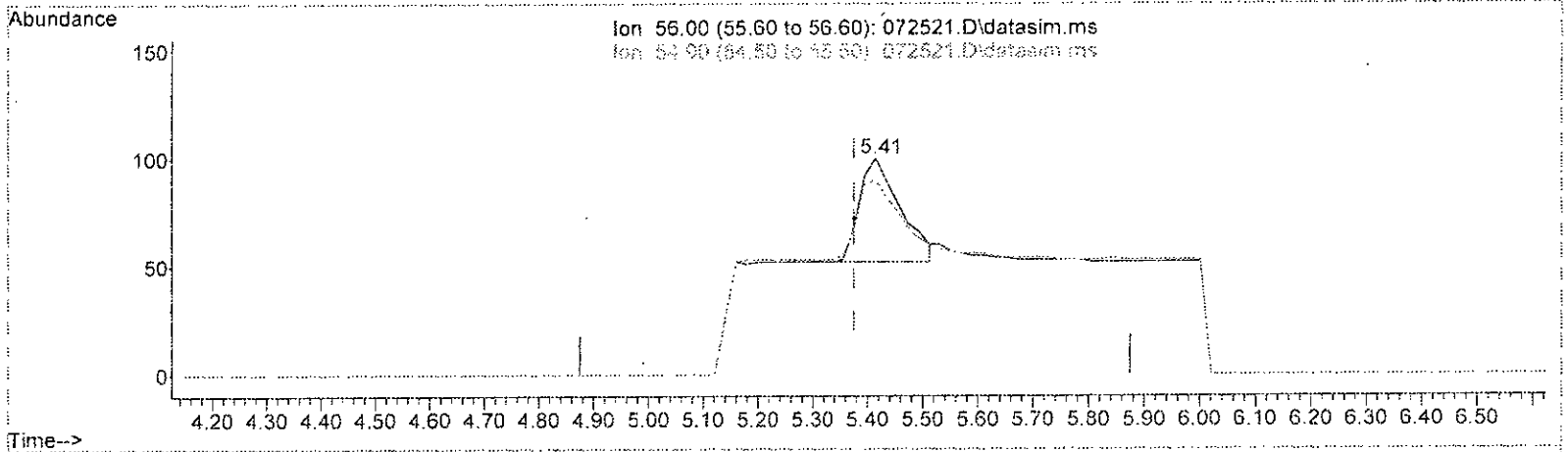
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	68.85
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: b 7/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(13) Acrolein (TMP)

5.414min (+ 0.039) 0.169 ppbv m

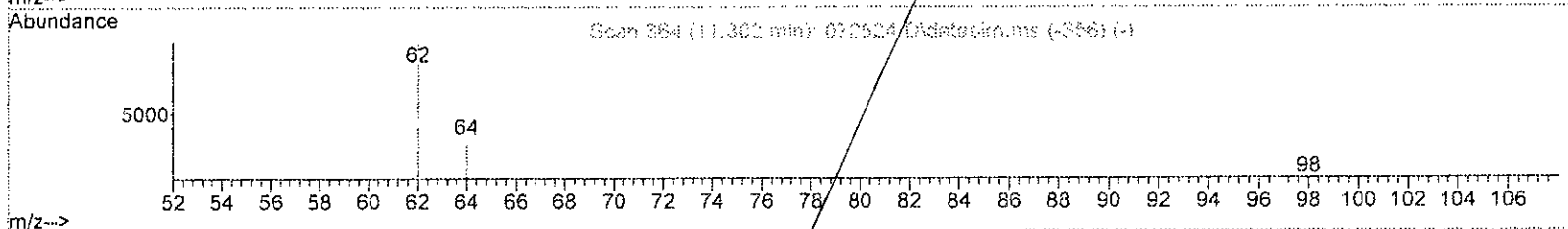
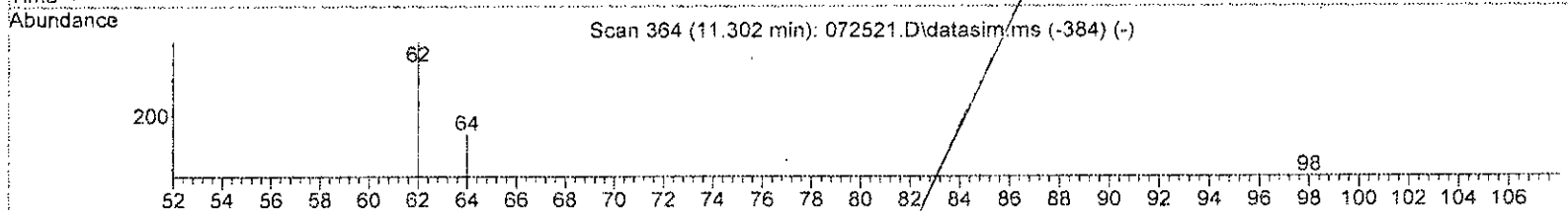
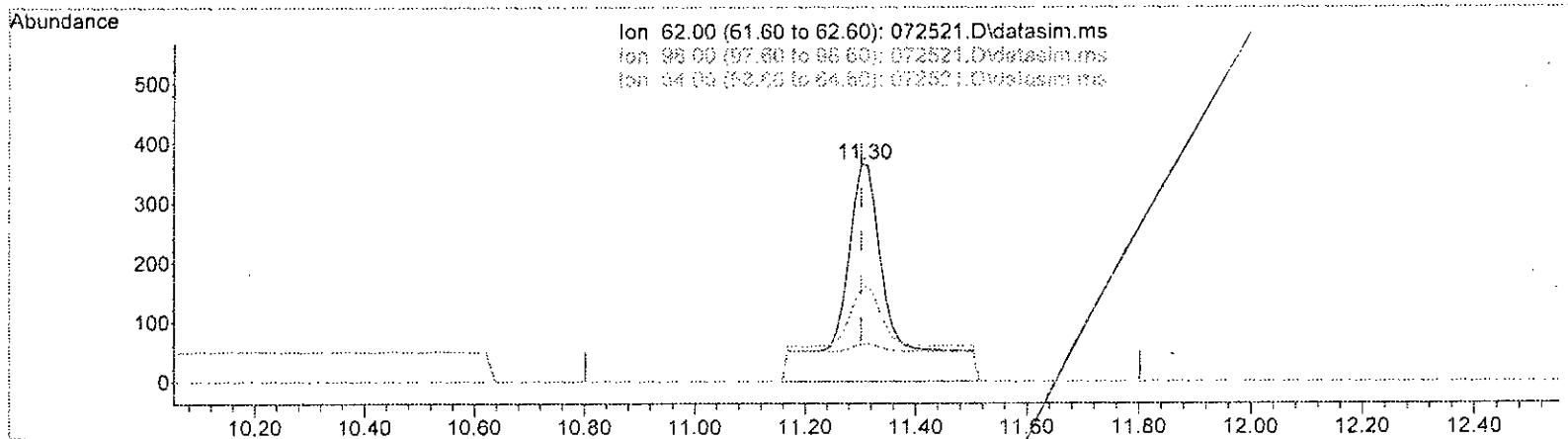
response	248	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	84.27
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCM57 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.386 ppbv

response 2204

Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	16.99
64.00	33.00	42.74
0.00	0.00	0.00

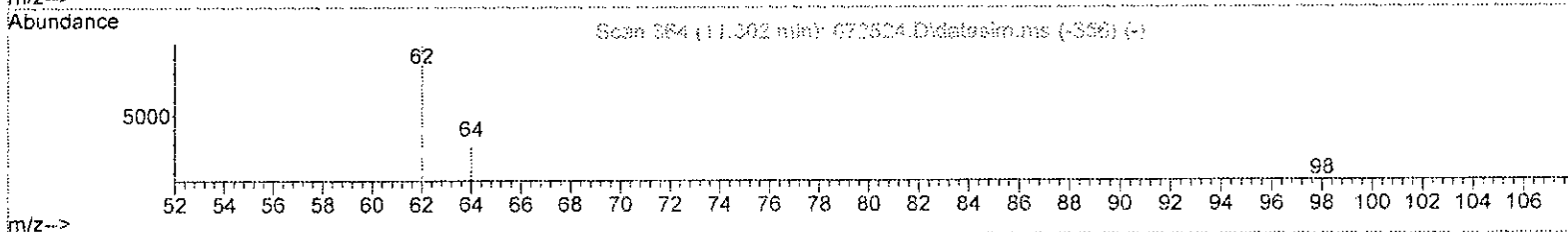
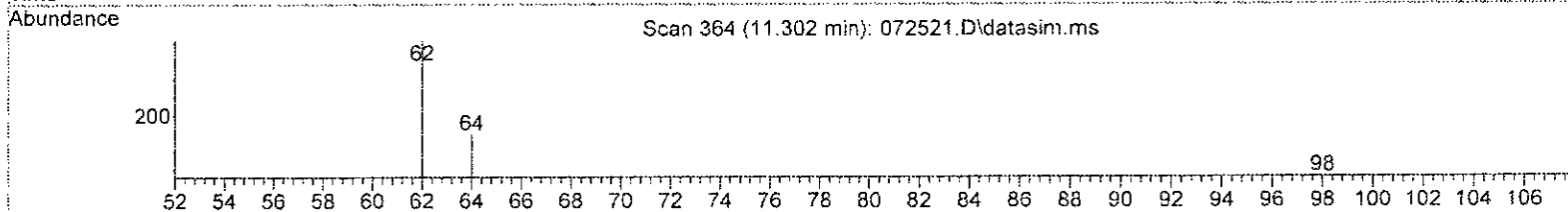
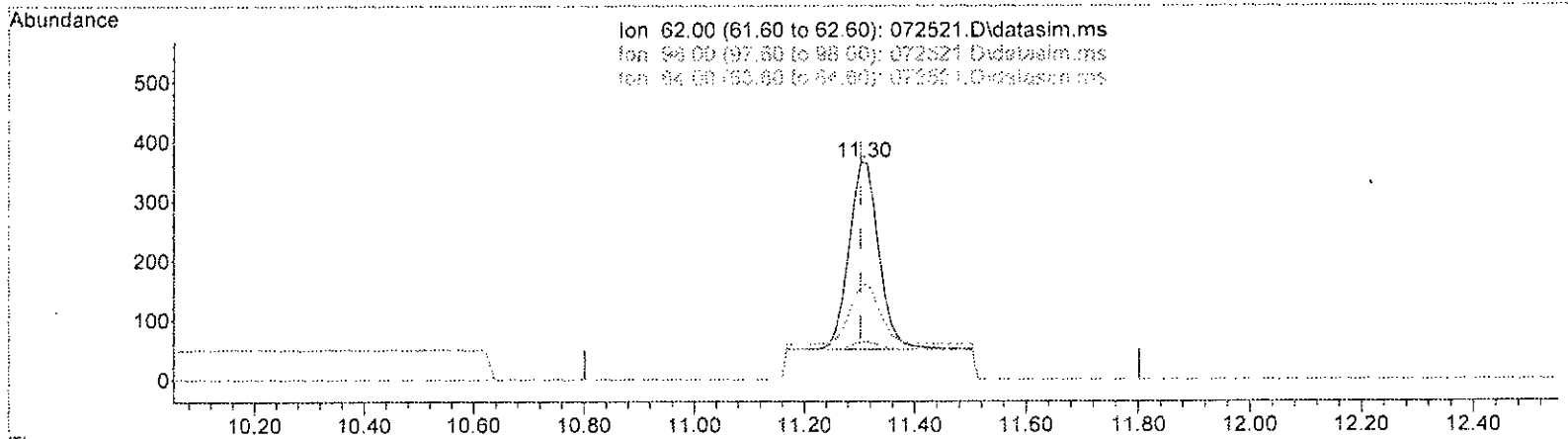
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv. T015 69-157-b  
 Misc : TS  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.206 ppbv m

response 1174

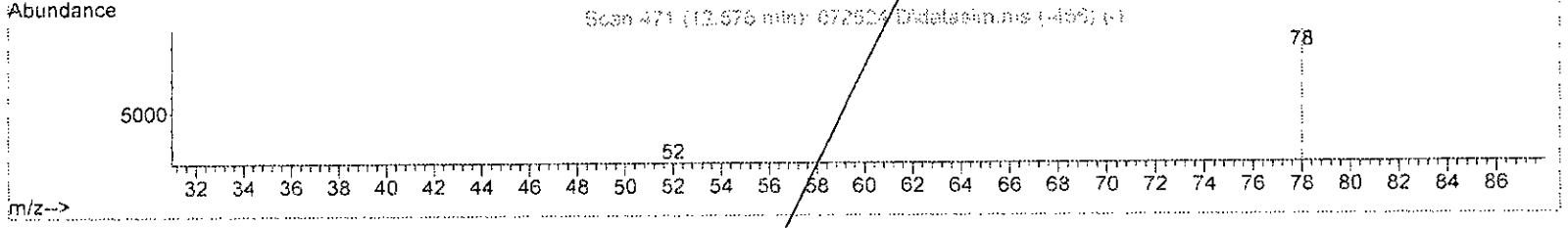
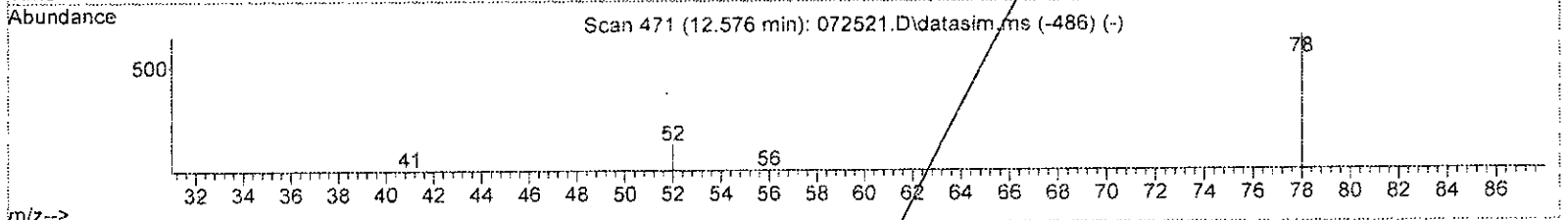
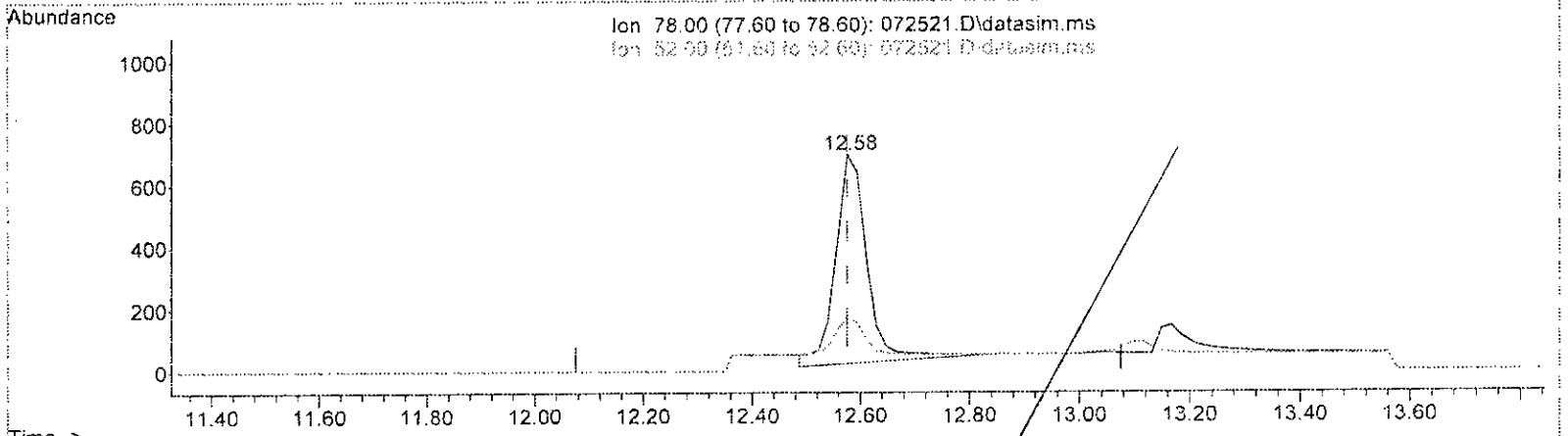
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	16.99
64.00	33.00	42.74
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

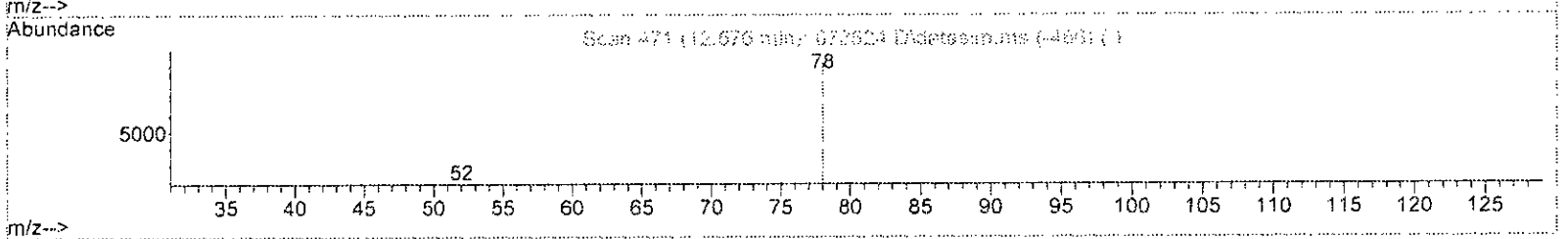
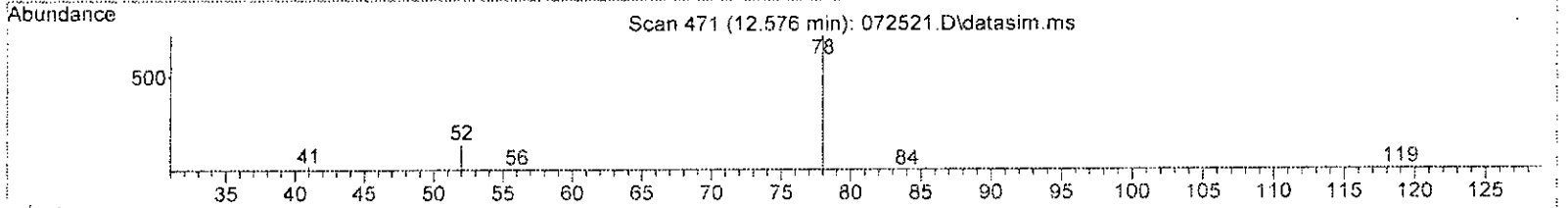
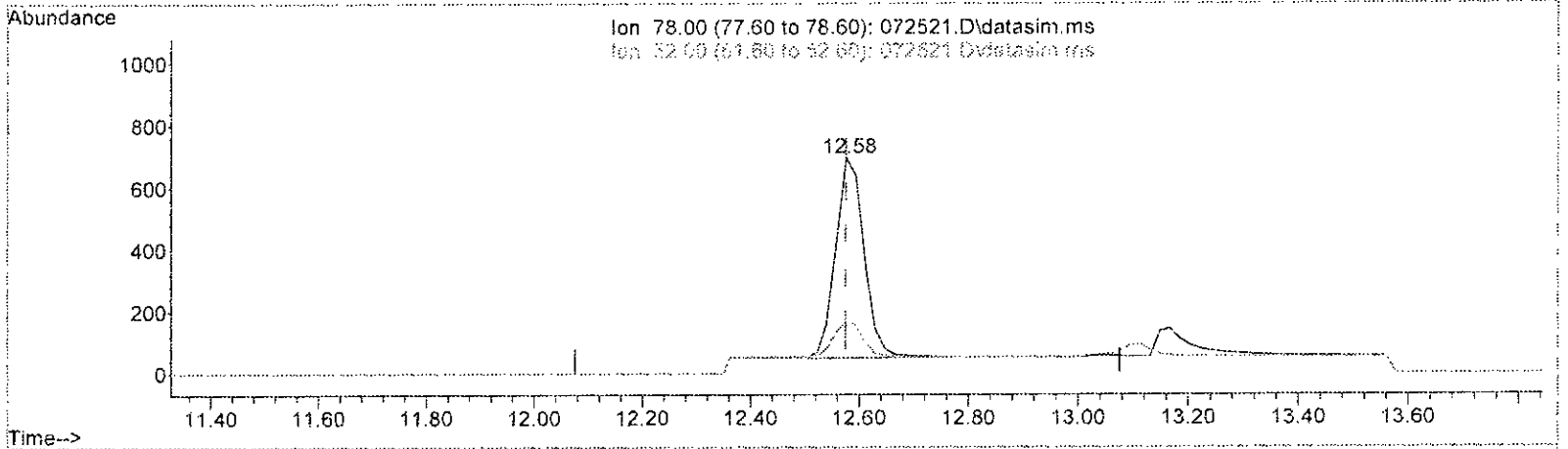
(37) Benzene (TMP)		
12.576min (+ 0.000)		0.240 ppbv
response	2713	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	18.94
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

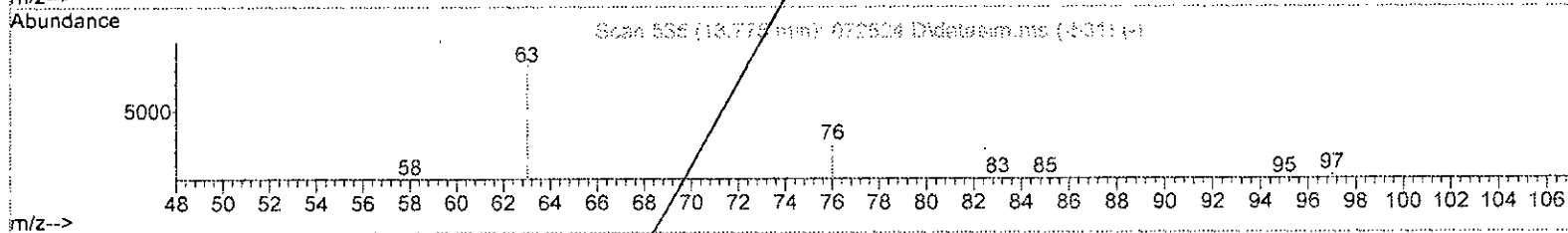
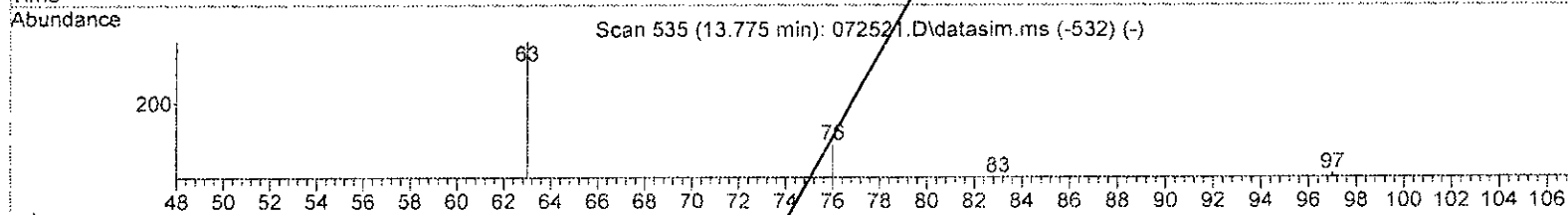
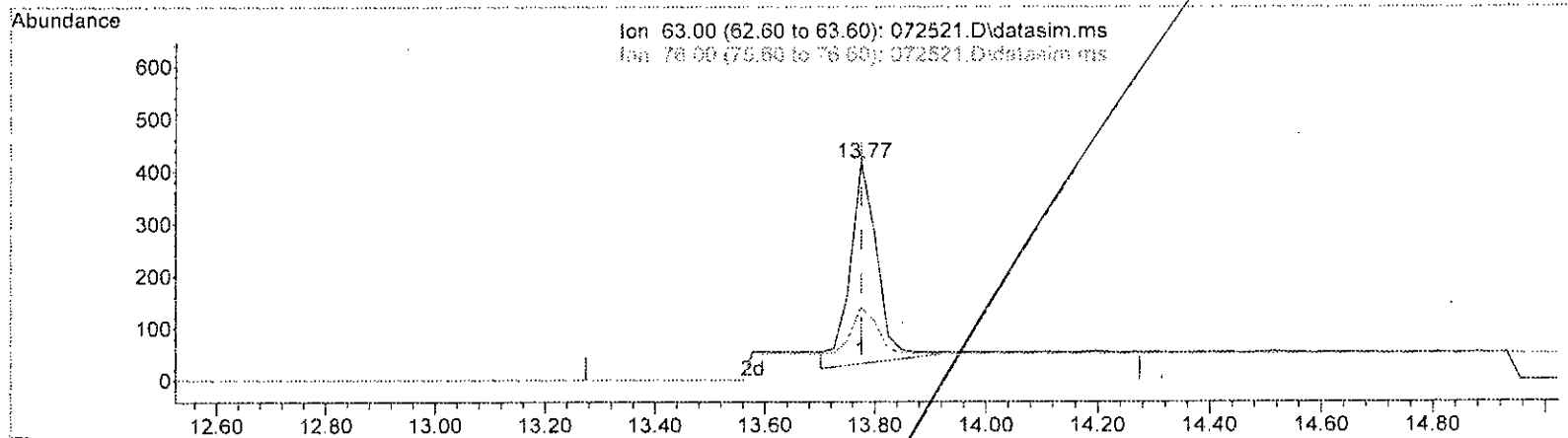
(37) Benzene (TMP)		
12.576min (+ 0.000)	0.207 ppbv m	
response	2336	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	25.00
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072521.D\data.ms

(40) 1,2-Dichloropropane (TMR)

13.775min (-0.000) 0.248 ppbv

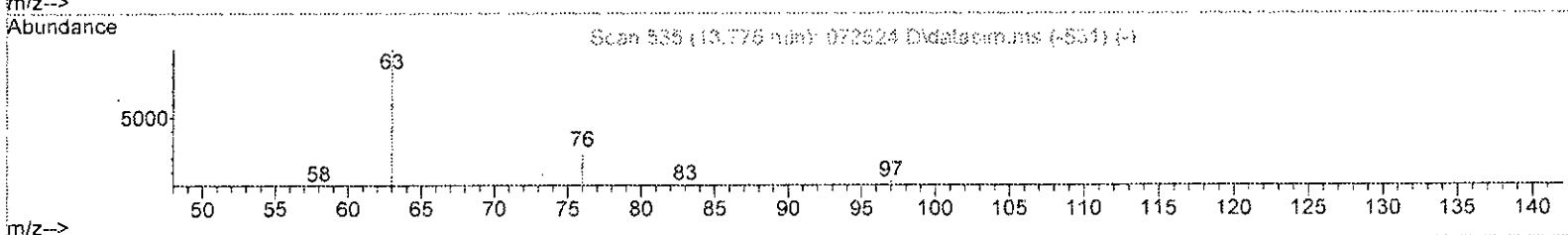
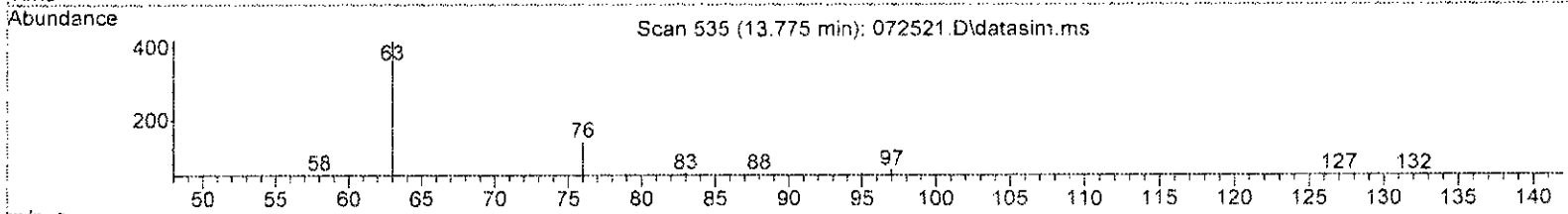
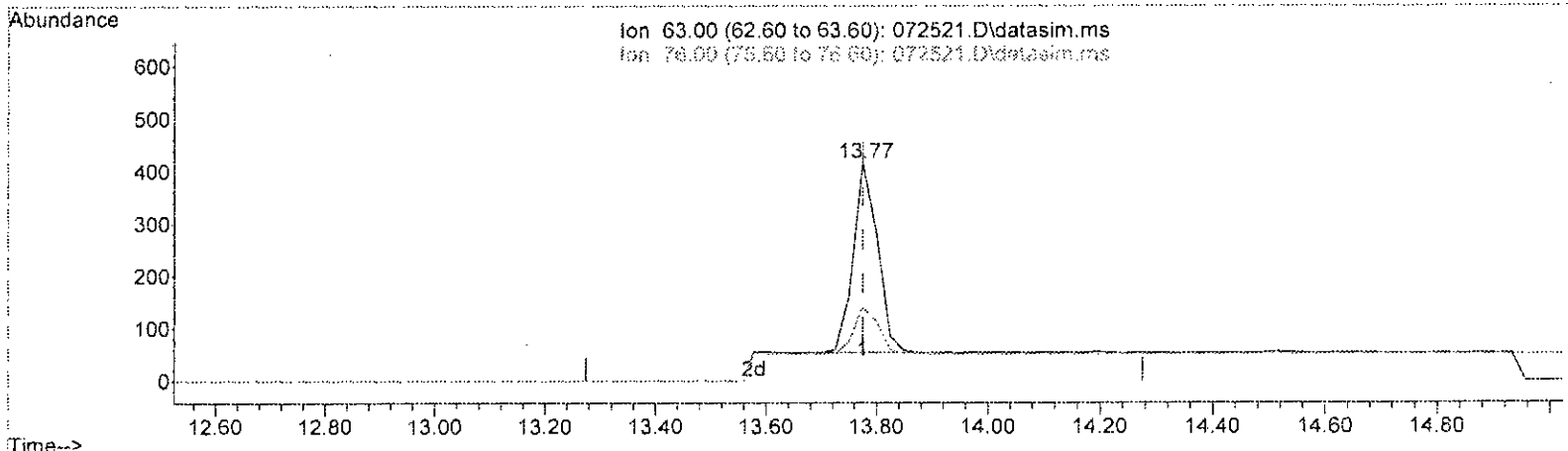
response	1326
Ion	Exp% Act%
63.00	100.00 100.00
76.00	25.70 24.52
0.00	0.00 0.00
0.00	0.00 0.00

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072521.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.203 ppbv m

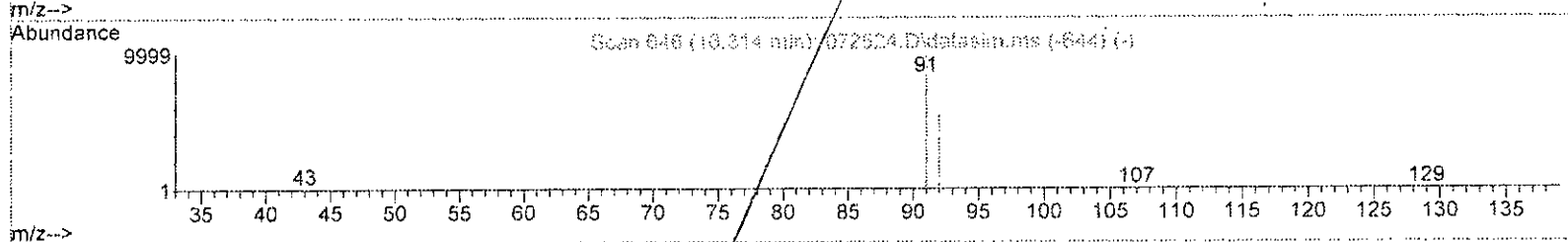
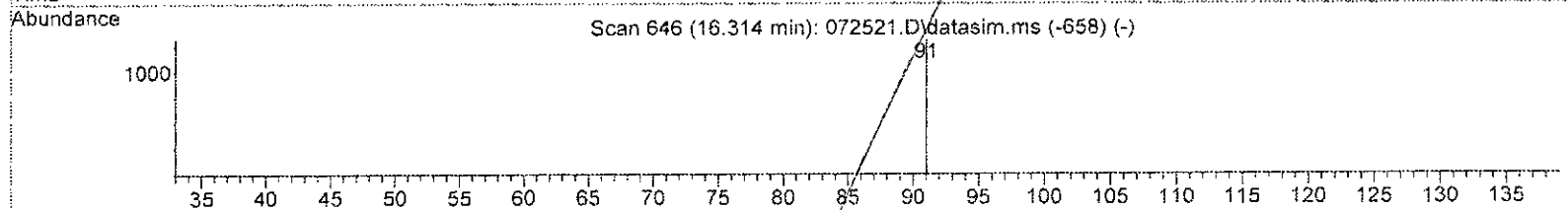
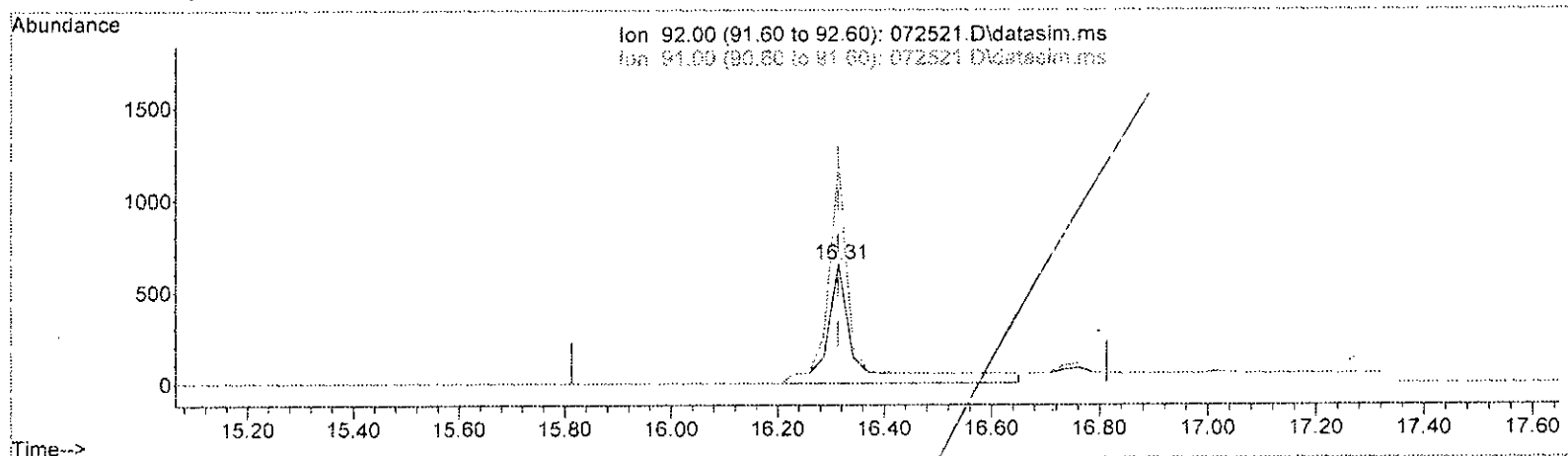
response	1084	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	33.65
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

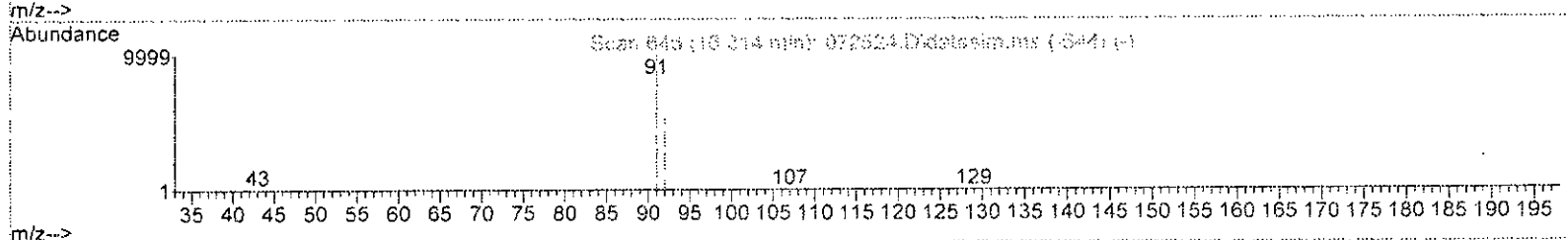
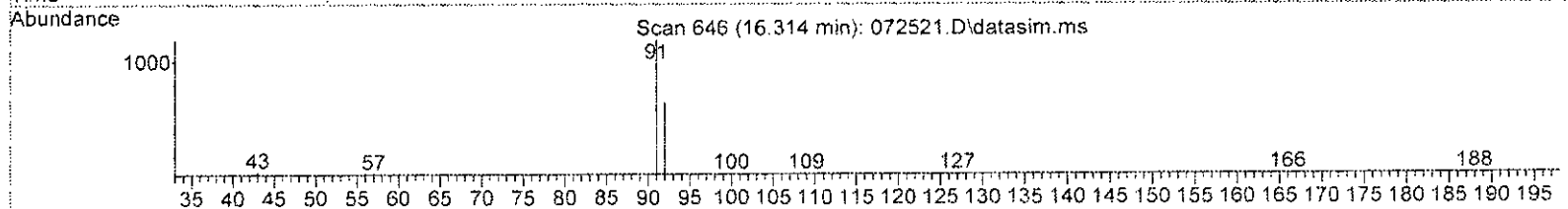
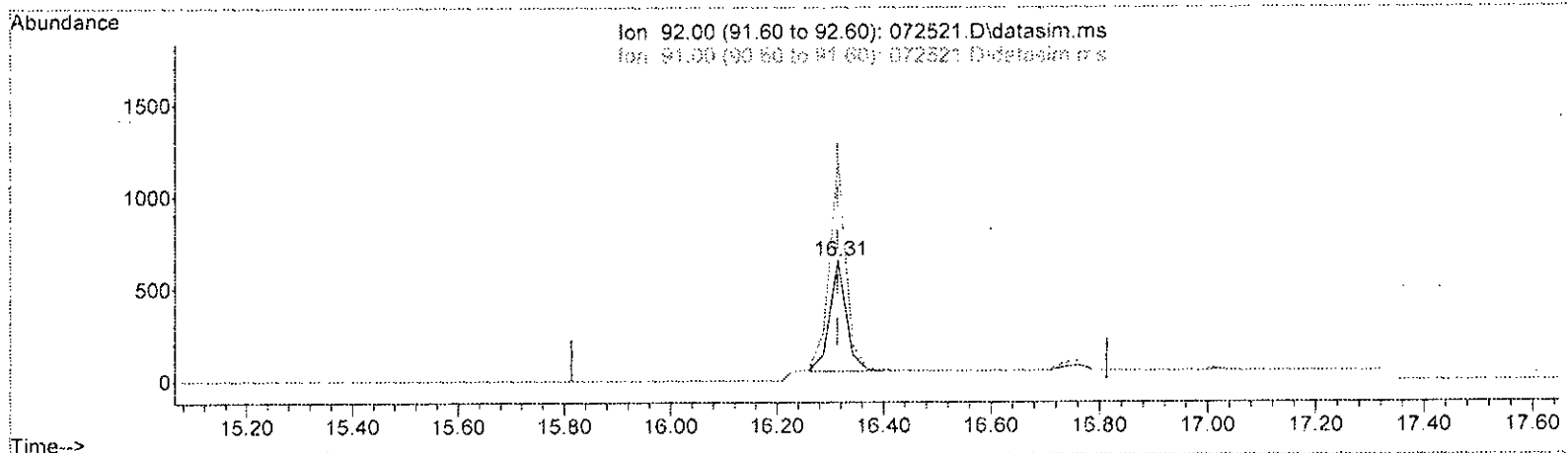
(50) Toluene (TMP)		
16.314min (+ 0.000)		0.405 ppbv
response	2665	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	181.82
0.00	0.00	0.00
0.00	0.00	0.00

*6/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

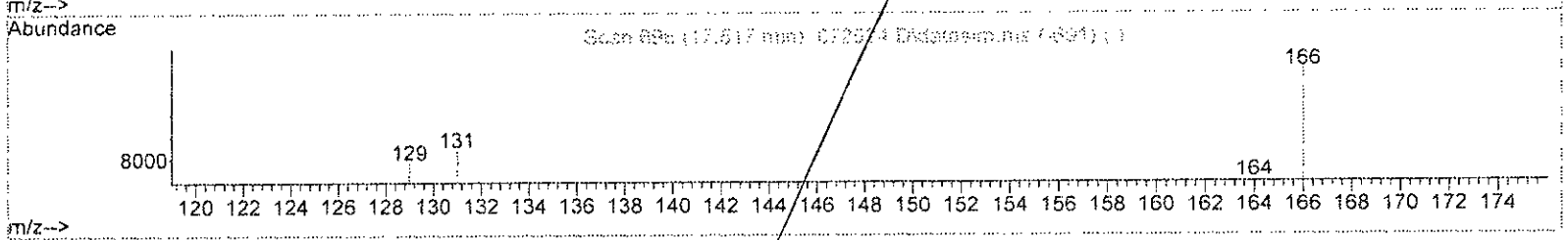
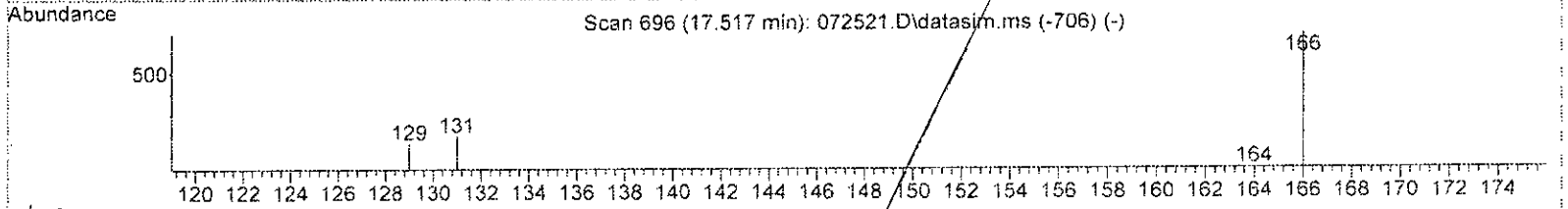
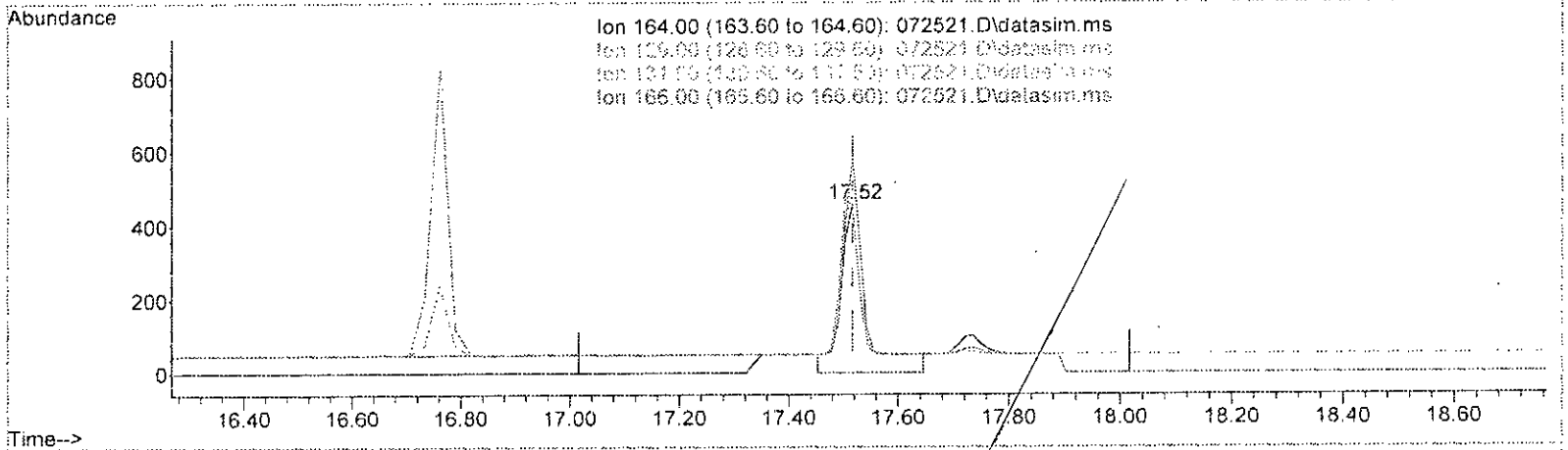
(50) Toluene (TMP)		
16.314min (+ 0.000)	0.202 ppbv m	
response	1332	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	181.82
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (-0.000) 0.362 ppbv

response 1410

Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	105.88
131.00	100.70	107.60
166.00	137.50	131.62

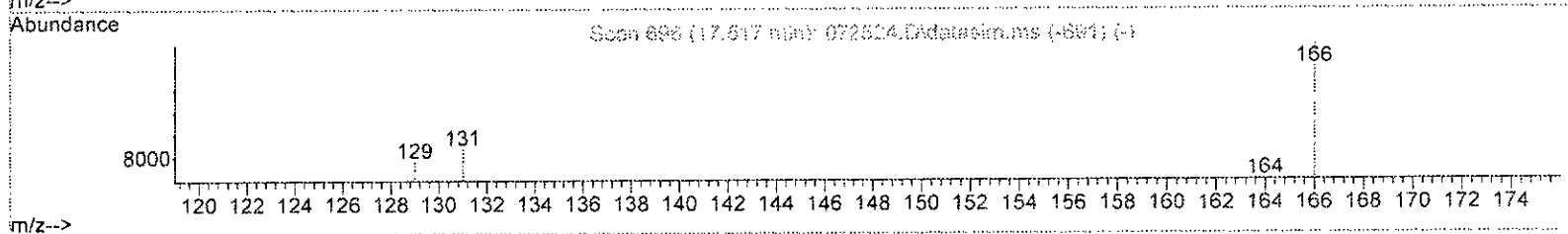
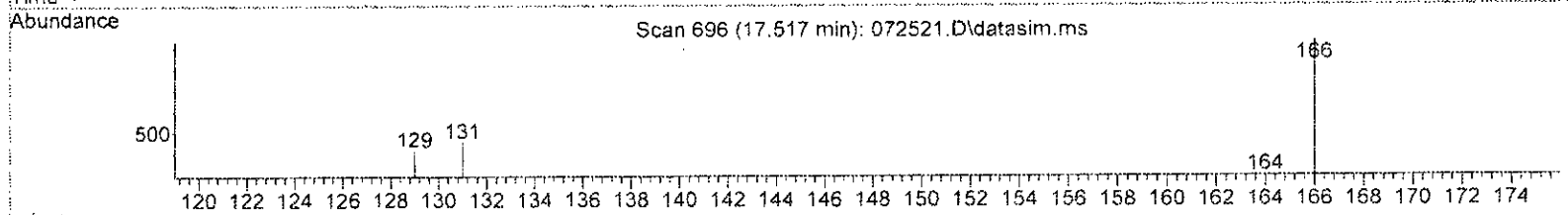
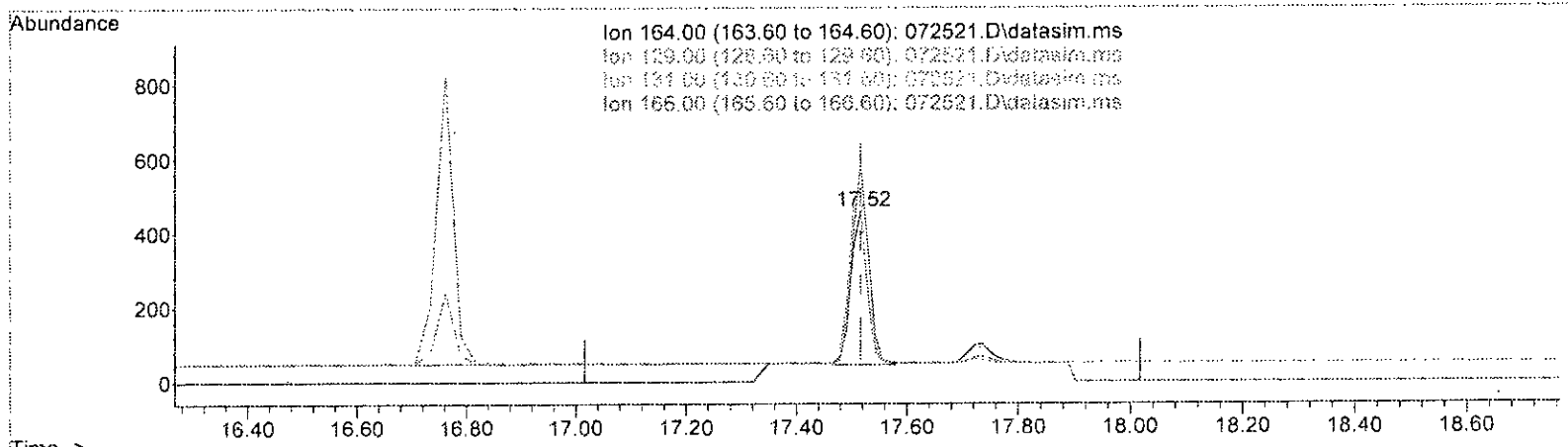
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072521.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (-0.000) 0.221 ppbv m

response 859

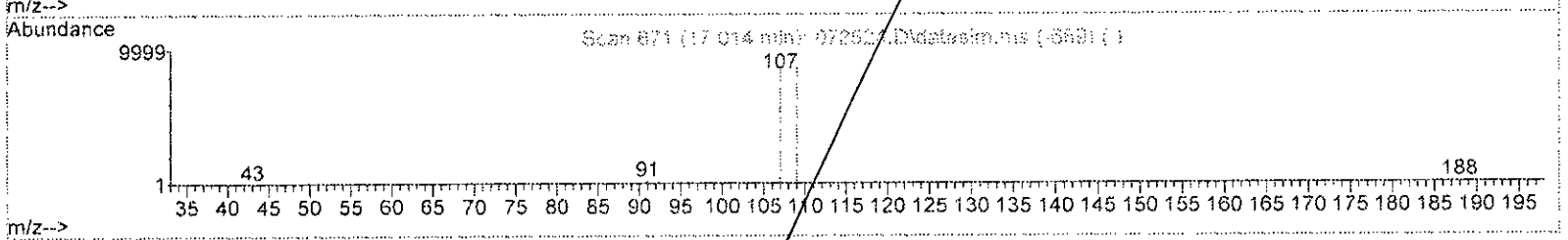
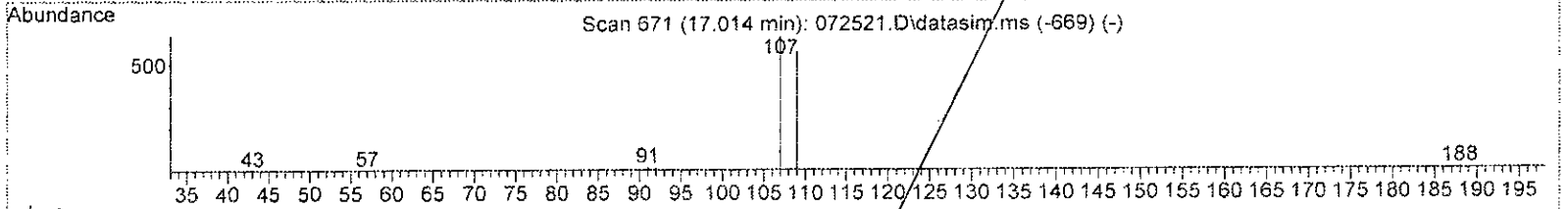
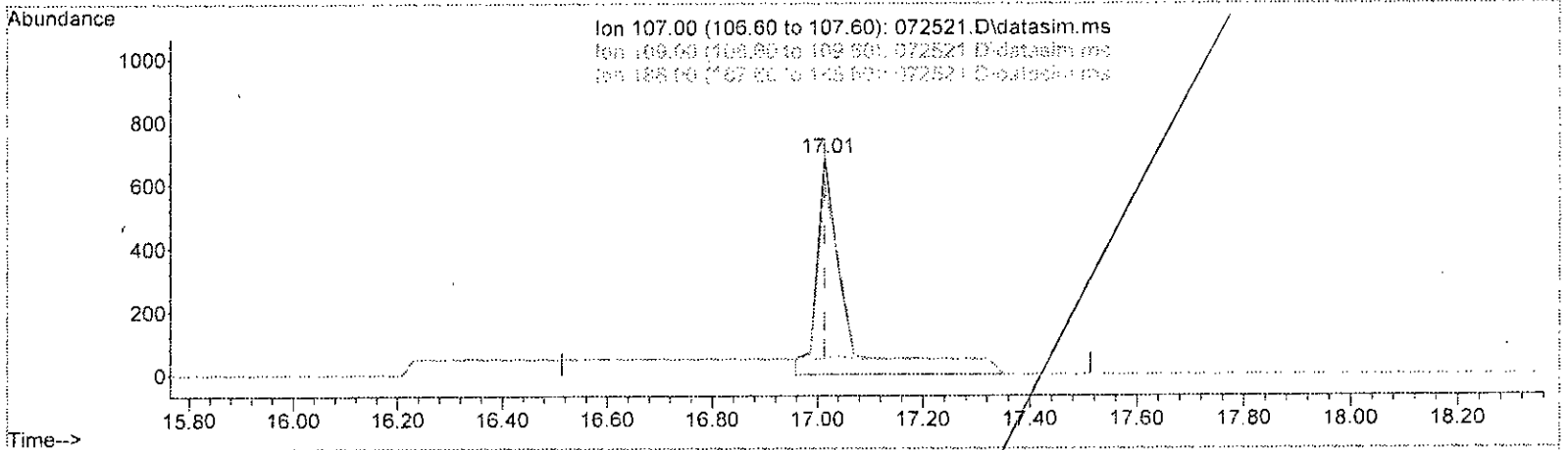
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	105.24
131.00	100.70	106.99
166.00	137.50	127.95

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 0.325 ppbv

response 2558

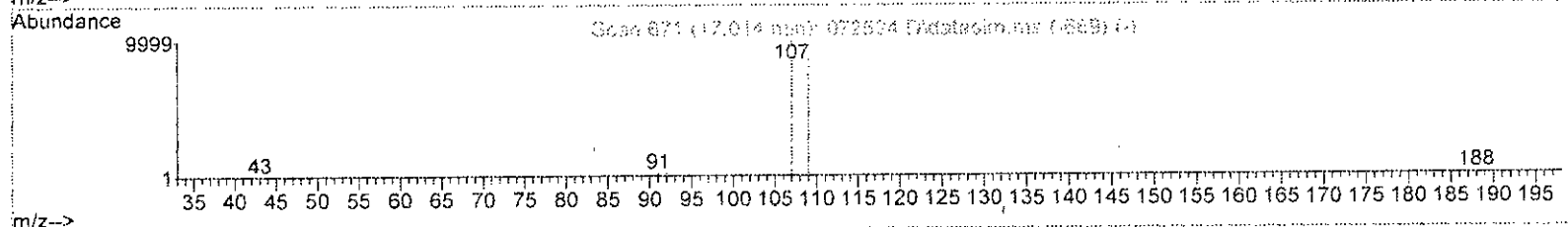
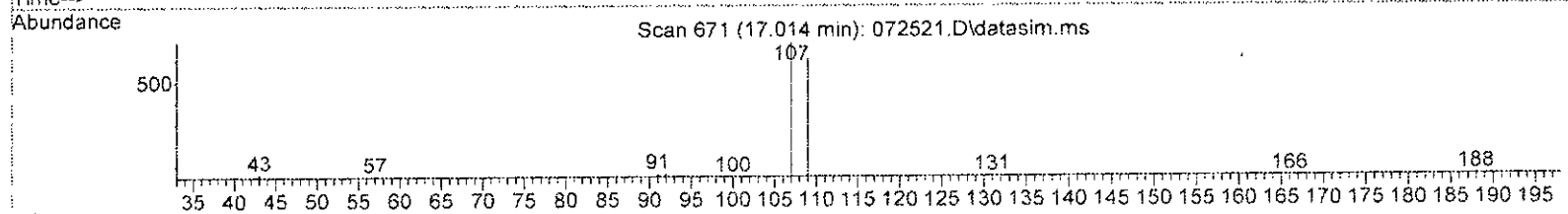
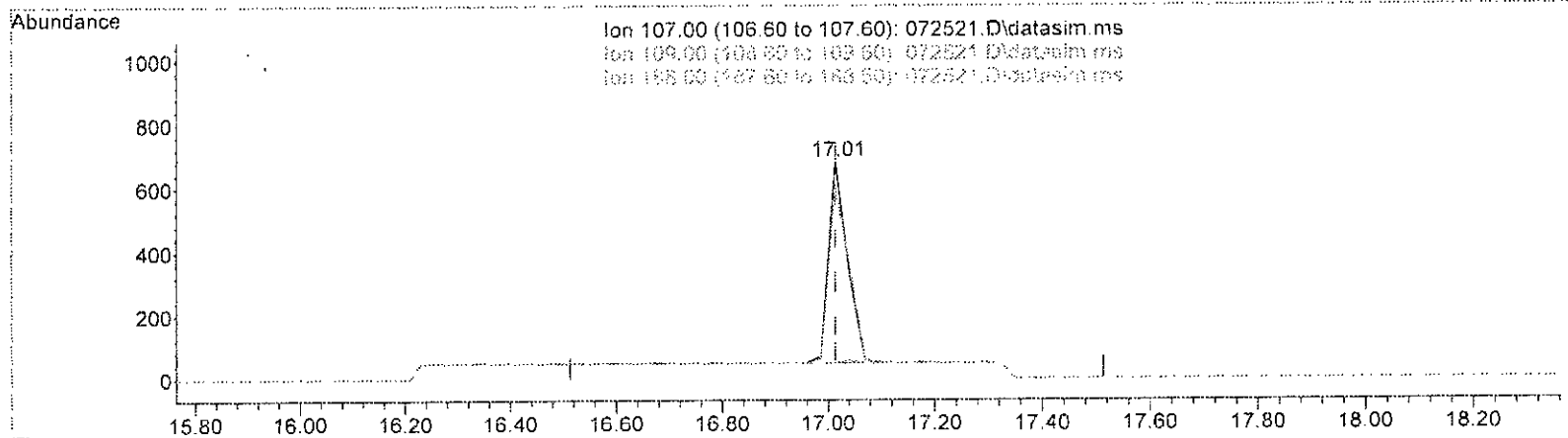
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.87
188.00	2.70	7.75
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 0.198 ppbv m

response 1557

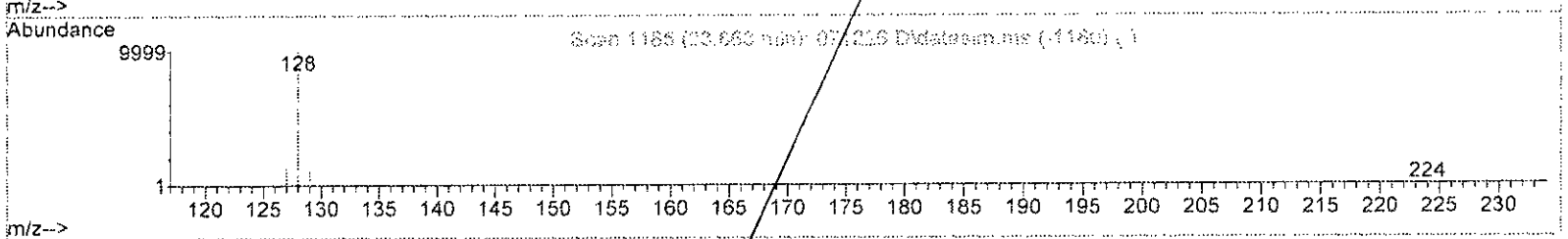
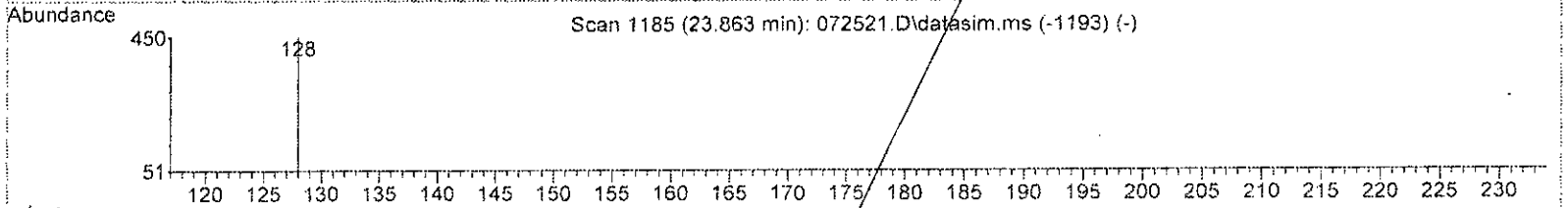
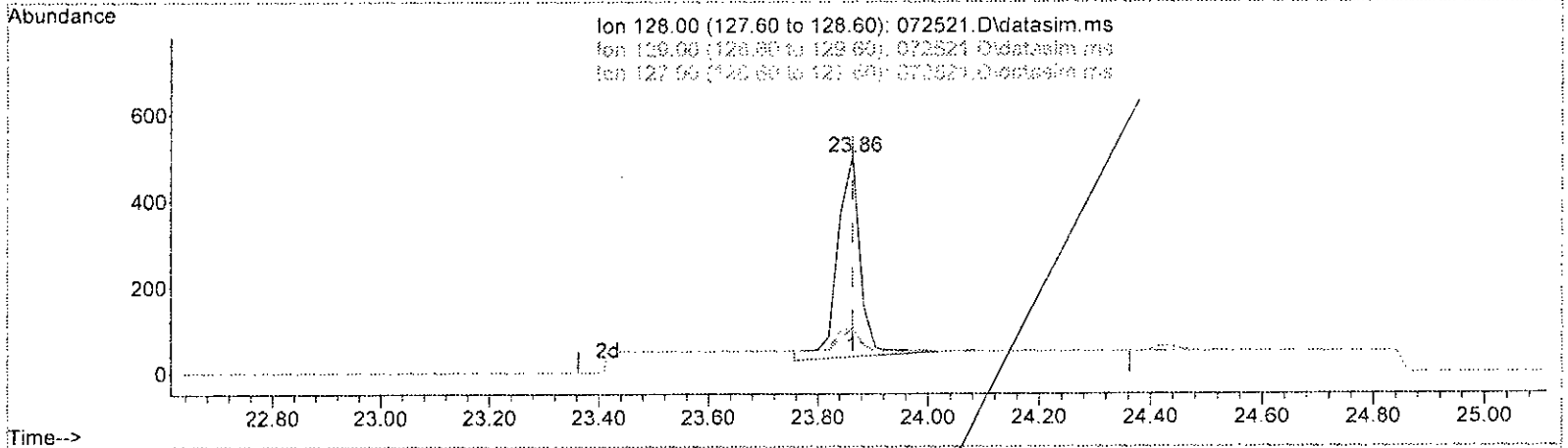
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.87
188.00	2.70	7.75
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(77) Naphthalene (TMP)  
 23.863min (-0.000) 0.173 ppbv

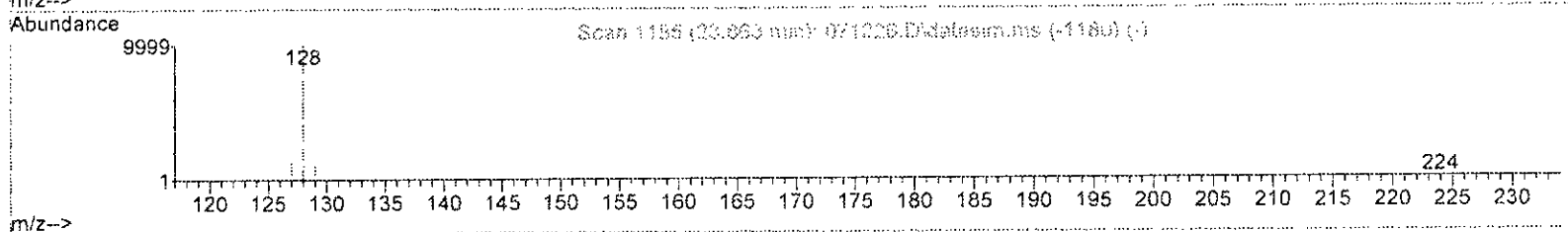
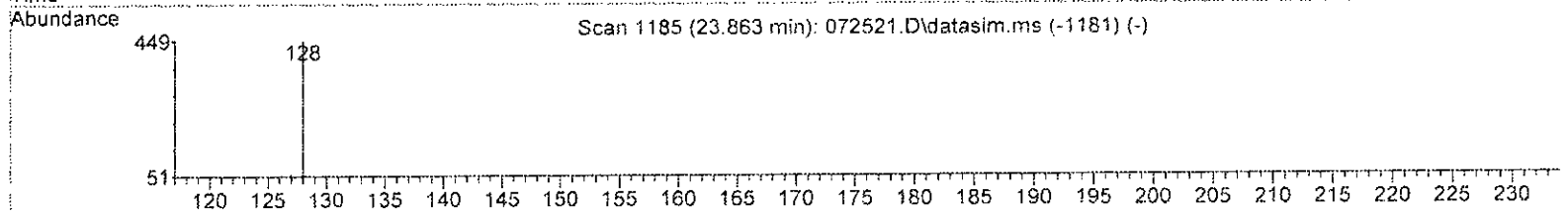
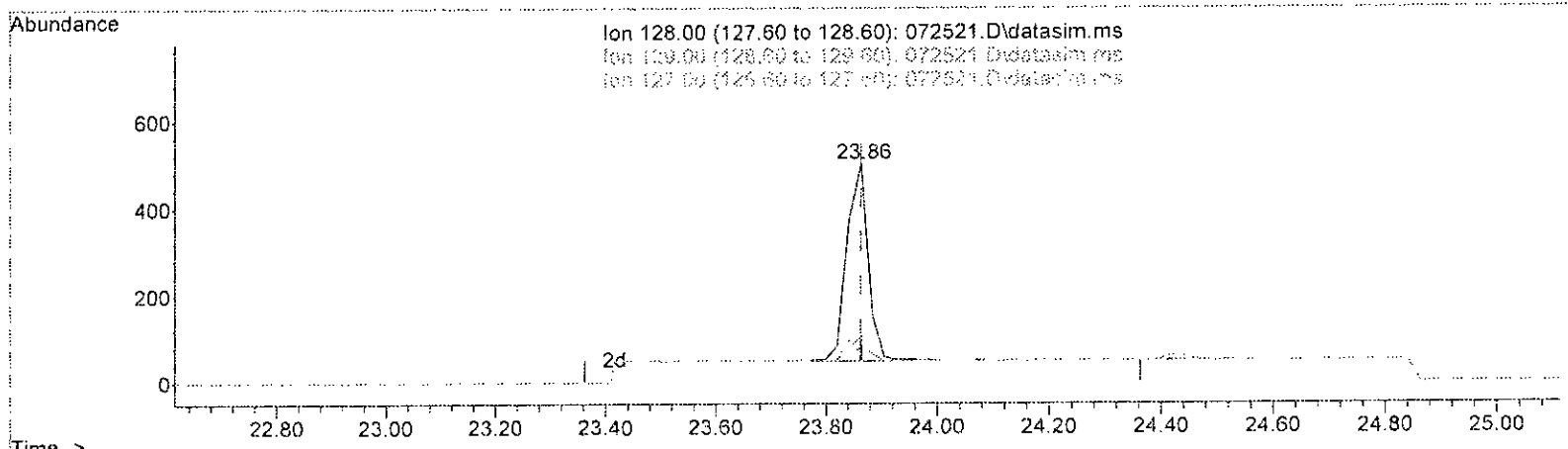
response	1360	
Ion	Exp%	Act%
128.00	100.00	100.00
129.00	11.00	11.31
127.00	13.20	12.42
0.00	0.00	0.00

*Handwritten signature: H/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072521.D\data.ms

(77) Naphthalene (TMP)

23.863min (-0.000) 0.152 ppbv m

Ion	Exp%	Act%
128.00	100.00	100.00
129.00	11.00	20.16
127.00	13.20	21.16
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	20134	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	86492	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	75349	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	54714	9.799	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.		
3) Dichlorodifluoromethane	3.49	85	1693	0.171	ppbv	96
4) Chloromethane	3.73	50	683	0.198	ppbv	73
5) F-114	3.88	85	1643	0.190	ppbv	79
6) Vinyl chloride	4.01	62	782	0.201	ppbv	95
7) 1,3-Butadiene	4.21	54	505	0.202	ppbv #	88
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	4.60	94	706	0.205	ppbv	90
10) Chloroethane	4.80	64	303m	0.218	ppbv	
11) Vinyl bromide	5.26	106	725m	0.209	ppbv	
12) Ethanol	0.00		0	N.D.		
13) Acrolein	5.41	56	248m	0.169	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	5.82	101	1662	0.172	ppbv	96
16) Acetone	0.00		0	N.D.		
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	6.65	96	693	0.210	ppbv	95
19) trans-1,2-Dichloroethene	8.07	96	689	0.211	ppbv	85
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	6.94	41	503	0.120	ppbv #	46
23) CFC-113	7.15	101	1464	0.206	ppbv	99
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	8.41	73	1418	0.203	ppbv	51
26) Vinyl acetate	0.00		0	N.D.	d	
27) 1,1-Dichloroethane	8.33	63	1496	0.207	ppbv	96
28) cis-1,2-Dichloroethene	9.60	96	750	0.210	ppbv	84
29) Hexane	0.00		0	N.D.	d	
30) Chloroform	10.07	83	1775	0.211	ppbv	100
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	10.76	42	574	0.156	ppbv #	41
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	11.30	62	1174m	0.206	ppbv	
35) 1,1,1-Trichloroethane	11.79	97	1461	0.212	ppbv	93
36) Carbon tetrachloride	12.83	117	1507	0.212	ppbv	100
37) Benzene	12.58	78	2336m	0.207	ppbv	
38) Cyclohexane	0.00		0	N.D.	d	
40) 1,2-Dichloropropane	13.77	63	1084m	0.203	ppbv	

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

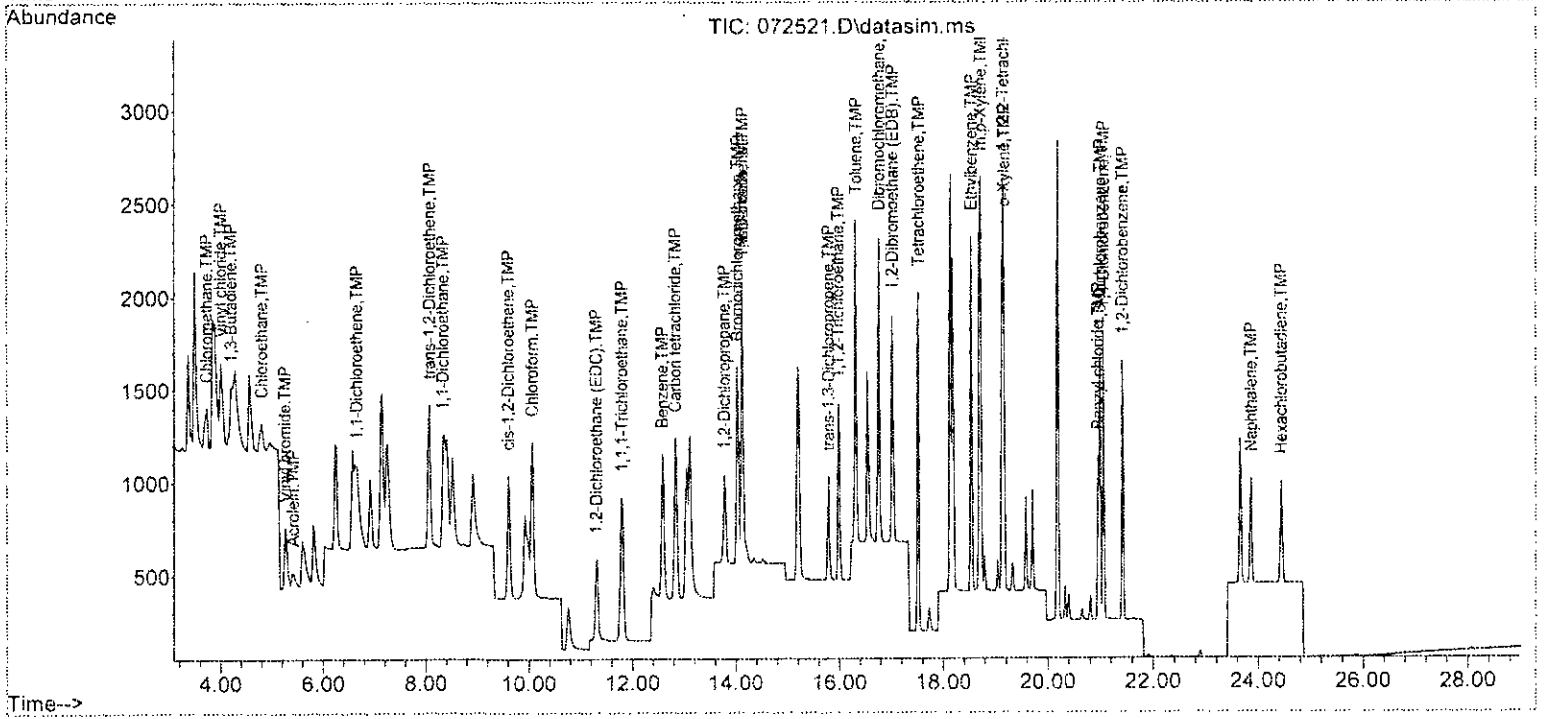
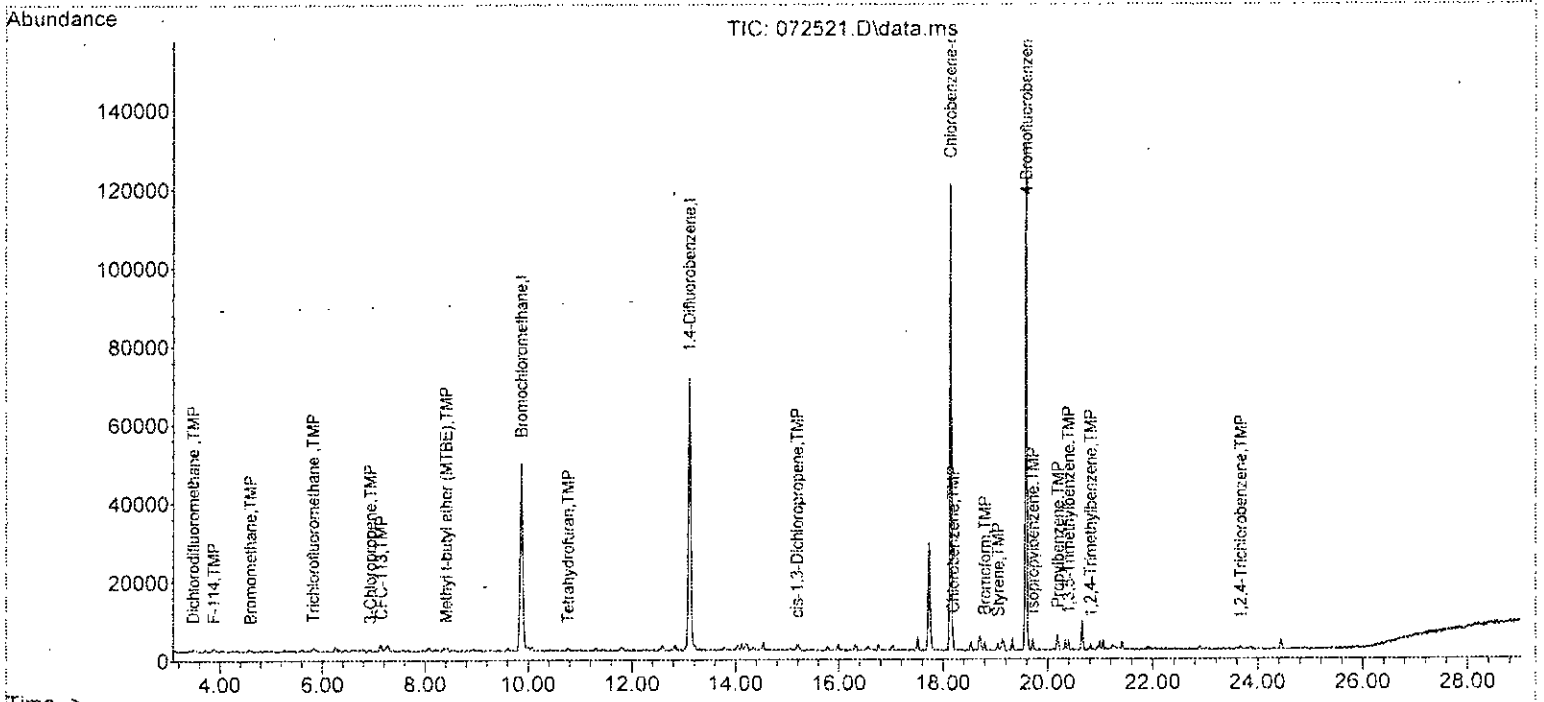
Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.12	88	433	0.214	ppbv	85
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45] Bromodichloromethane	14.02	83	1819	0.209	ppbv	99
46] Trichloroethene	14.12	95	1147	0.206	ppbv	95
47) cis-1,3-Dichloropropene	15.18	75	1187	0.205	ppbv	63
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49] trans-1,3-Dichloropropene	15.78	75	1067	0.204	ppbv	95
50] Toluene	16.31	92	1332m	0.202	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	1036	0.207	ppbv	98
52) 2-Hexanone	0.00		0	N.D.	d	
53] Tetrachloroethene	17.52	164	859m	0.221	ppbv	
54] Dibromochloromethane	16.76	129	1689	0.212	ppbv	94
55] 1,2-Dibromoethane (EDB)	17.01	107	1557m	0.198	ppbv	
57) Chlorobenzene	18.19	112	1846	0.229	ppbv	87
58] Ethylbenzene	18.53	91	2815	0.208	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	2341	0.205	ppbv	93
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	19.72	105	2626	0.224	ppbv	100
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	20.19	91	5090	0.208	ppbv	93
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	1865	0.408	ppbv	98
66] o-Xylene	19.15	106	867	0.208	ppbv	91
67) Styrene	19.05	104	1170	0.202	ppbv	93
68) Bromoform	18.80	173	1445	0.214	ppbv	94
70] Benzyl chloride	20.95	91	1315	0.187	ppbv	90
71) 1,3,5-Trimethylbenzene	20.39	105	1839	0.184	ppbv	88
72) 1,2,4-Trimethylbenzene	20.81	105	1361	0.155	ppbv	82
73] 1,3-Dichlorobenzene	20.99	146	1399	0.191	ppbv	92
74] 1,4-Dichlorobenzene	21.05	146	1285	0.189	ppbv	92
75] 1,2-Dichlorobenzene	21.41	146	1336	0.189	ppbv	95
76) 1,2,4-Trichlorobenzene	23.67	180	712	0.160	ppbv #	82
77] Naphthalene	23.86	128	1192m	0.152	ppbv	
78] Hexachlorobutadiene	24.44	225	1188	0.190	ppbv	99

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M





Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	0.200	0.000	100.0#	0	-3.41#
3 TMP	Dichlorodifluoromethane	0.200	0.171	14.5	100	0.00
4 TMP	Chloromethane	0.200	0.198	1.0	100	0.04
5 TMP	F-114	0.200	0.190	5.0	100	0.00
6 TMP	Vinyl chloride	0.200	0.201	-0.5	100	0.00
7 TMP	1,3-Butadiene	0.200	0.202	-1.0	100	0.00
8 TMP	Butane	-1.000	0.000	0.0	0	-4.28#
9 TMP	Bromomethane	0.200	0.205	-2.5	100	0.04
10 TMP	Chloroethane	0.200	0.218	-9.0	102	0.00
11 TMP	Vinyl bromide	0.200	0.209	-4.5	99	0.00
12 TMP	Ethanol	-1.000	0.000	0.0	0	-4.92#
13 TMP	Acrolein	0.200	0.169	15.5	96	0.04
14 TMP	Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP	Trichlorofluoromethane	0.200	0.172	14.0	100	0.02
16 TMP	Acetone	-1.000	0.000	0.0	0	-5.54#
17 TMP	2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP	1,1-Dichloroethene	0.200	0.210	-5.0	100	0.00
19 TMP	trans-1,2-Dichloroethene	0.200	0.211	-5.5	100	0.00
20 TMP	Methylene chloride	-1.000	0.000	0.0	0	-6.78#
21 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP	3-Chloropropene	0.200	0.120	40.0#	100	0.00
23 TMP	CFC-113	0.200	0.206	-3.0	100	0.00
24 TMP	Carbon disulfide	-1.000	0.000	0.0	0	-7.25#
25 TMP	Methyl t-butyl ether (MTBE)	0.200	0.203	-1.5	100	0.00
26 TMP	Vinyl acetate	-1.000	0.000	0.0	0	-8.51#
27 TMP	1,1-Dichloroethane	0.200	0.207	-3.5	100	0.00
28 TMP	cis-1,2-Dichloroethene	0.200	0.210	-5.0	100	0.00
29 TMP	Hexane	-1.000	0.000	0.0	0	-9.99#
30 TMP	Chloroform	0.200	0.211	-5.5	100	0.00
31 TMP	Ethyl acetate	-1.000	0.000	0.0	0	-9.90#
32 TMP	Tetrahydrofuran	0.200	0.156	22.0	100	0.05
33 TMP	2-Butanone (MEK)	0.200	0.000	100.0#	0	-8.88#
34 TMP	1,2-Dichloroethane (EDC)	0.200	0.206	-3.0	100	0.00
35 TMP	1,1,1-Trichloroethane	0.200	0.212	-6.0	100	0.00
36 TMP	Carbon tetrachloride	0.200	0.212	-6.0	100	0.00
37 TMP	Benzene	0.200	0.207	-3.5	101	0.00
38 TMP	Cyclohexane	-1.000	0.000	0.0	0	-13.04#
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.200	0.203	-1.5	99	0.00
41 TMP	1,4-Dioxane	0.200	0.214	-7.0	100	0.05
42 TMP	2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.21#
43 TMP	Methyl methacrylate	-1.000	0.000	0.0	0	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.53#
45 TMP Bromodichloromethane	0.200	0.209	-4.5	100	0.00
46 TMP Trichloroethene	0.200	0.206	-3.0	100	0.00
47 TMP cis-1,3-Dichloropropene	0.200	0.205	-2.5	100	0.00
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.21#
49 TMP trans-1,3-Dichloropropene	0.200	0.204	-2.0	100	0.00
50 TMP Toluene	0.200	0.202	-1.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.200	0.207	-3.5	100	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	0.200	0.221	-10.5	102	0.00
54 TMP Dibromochloromethane	0.200	0.212	-6.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.200	0.198	1.0	98	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.200	0.229	-14.5	100	0.00
58 TMP Ethylbenzene	0.200	0.208	-4.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.200	0.205	-2.5	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.32#
61 TMP Isopropylbenzene	0.200	0.224	-12.0	100	0.00
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	0.200	0.208	-4.0	100	0.00
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.33#
65 TMP m,p-Xylene	0.400	0.408	-2.0	100	0.00
66 TMP o-Xylene	0.200	0.208	-4.0	100	0.00
67 TMP Styrene	0.200	0.202	-1.0	100	0.00
68 TMP Bromoform	0.200	0.214	-7.0	100	0.00
69 S 4-Bromofluorobenzene	10.000	9.799	2.0	100	0.00
70 TMP Benzyl chloride	0.200	0.187	6.5	100	0.00
71 TMP 1,3,5-Trimethylbenzene	0.200	0.184	8.0	100	0.00
72 TMP 1,2,4-Trimethylbenzene	0.200	0.155	22.5	100	0.00
73 TMP 1,3-Dichlorobenzene	0.200	0.191	4.5	100	0.00
74 TMP 1,4-Dichlorobenzene	0.200	0.189	5.5	100	0.00
75 TMP 1,2-Dichlorobenzene	0.200	0.189	5.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.200	0.160	20.0	100	0.00
77 TMP Naphthalene	0.200	0.152	24.0	101	0.00
78 TMP Hexachlorobutadiene	0.200	0.190	5.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP	Propene	1.221	0.000	100.0#	0#	-3.41#
3 TMP	Dichlorodifluoromethane	4.917	4.204	14.5	100	0.00
4 TMP	Chloromethane	1.713	1.696	1.0	100	0.04
5 TMP	F-114	4.288	4.080	4.9	100	0.00
6 TMP	Vinyl chloride	1.937	1.942	-0.3	100	0.00
7 TMP	1,3-Butadiene	1.242	1.254	-1.0	100	0.00
8 TMP	Butane	2.483	0.000	100.0#	0#	-4.28#
9 TMP	Bromomethane	1.711	1.753	-2.5	100	0.04
10 TMP	Chloroethane	0.689	0.752	-9.1	102	0.00
11 TMP	Vinyl bromide	1.725	1.800	-4.3	99	0.00
12 TMP	Ethanol	0.543	0.000	100.0#	0#	-4.92#
13 TMP	Acrolein	0.729	0.616	15.5	96	0.04
14 TMP	Pentane	2.839	0.000#	100.0#	0#	-6.25#
15 TMP	Trichlorofluoromethane	4.796	4.127	13.9	100	0.02
16 TMP	Acetone	0.670	0.000#	100.0#	0#	-5.54#
17 TMP	2-Propanol	2.930	0.000	100.0#	0#	-5.78#
18 TMP	1,1-Dichloroethene	1.641	1.721	-4.9	100	0.00
19 TMP	trans-1,2-Dichloroethene	1.625	1.711	-5.3	100	0.00
20 TMP	Methylene chloride	1.604	0.000#	100.0#	0#	-6.78#
21 TMP	t-Butyl alcohol (TBA)	2.544	0.000	100.0#	0#	-6.57#
22 TMP	3-Chloropropene	2.076	1.249	39.8#	100	0.00
23 TMP	CFC-113	3.525	3.636	-3.1	100	0.00
24 TMP	Carbon disulfide	5.324	0.000	100.0#	0#	-7.25#
25 TMP	Methyl t-butyl ether (MTBE)	3.467	3.521	-1.6	100	0.00
26 TMP	Vinyl acetate	3.863	0.000#	100.0#	0#	-8.51#
27 TMP	1,1-Dichloroethane	3.597	3.715	-3.3	100	0.00
28 TMP	cis-1,2-Dichloroethene	1.774	1.863	-5.0	100	0.00
29 TMP	Hexane	2.181	0.000	100.0#	0#	-9.99#
30 TMP	Chloroform	4.186	4.408	-5.3	100	0.00
31 TMP	Ethyl acetate	3.859	0.000	100.0#	0#	-9.90#
32 TMP	Tetrahydrofuran	1.822	1.425	21.8	100	0.05
33 TMP	2-Butanone (MEK)	0.597	0.000	100.0#	0#	-8.88#
34 TMP	1,2-Dichloroethane (EDC)	2.835	2.915	-2.8	100	0.00
35 TMP	1,1,1-Trichloroethane	3.417	3.628	-6.2	100	0.00
36 TMP	Carbon tetrachloride	3.530	3.742	-6.0	100	0.00
37 TMP	Benzene	5.604	5.801	-3.5	101	0.00
38 TMP	Cyclohexane	1.400	0.000	100.0#	0#	-13.04#
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.619	0.627	-1.3	99	0.00
41 TMP	1,4-Dioxane	0.233	0.250	-7.3	100	0.05
42 TMP	2,2,4-Trimethylpentane	1.831	0.000	100.0#	0#	-14.21#
43 TMP	Methyl methacrylate	0.534	0.000	100.0#	0#	-14.34#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072521.D  
 Acq On : 26 Jul 2023 1:24 am  
 Operator : bat  
 Sample : 0.2 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:30 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.000	100.0#	0#	-14.53#
45 TMP Bromodichloromethane	1.004	1.052	-4.8	100	0.00
46 TMP Trichloroethene	0.642	0.663	-3.3	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.686	-2.2	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.000	100.0#	0#	-15.21#
49 TMP trans-1,3-Dichloropropene	0.606	0.617	-1.8	100	0.00
50 TMP Toluene	0.761	0.770	-1.2	100	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.599	-3.5	100	0.00
52 TMP 2-Hexanone	0.834	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.450	0.497	-10.4	102	0.00
54 TMP Dibromochloromethane	0.923	0.976	-5.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.900	1.2	98	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.225	-14.6	100	0.00
58 TMP Ethylbenzene	1.800	1.868	-3.8	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.553	-2.6	100	0.00
60 TMP Nonane	0.879	0.000	100.0#	0#	-19.32#
61 TMP Isopropylbenzene	1.553	1.743	-12.2	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.242	3.378	-4.2	100	0.00
64 TMP 4-Ethyltoluene	1.485	0.000	100.0#	0#	-20.33#
65 TMP m,p-Xylene	0.607	0.619	-2.0	100	0.00
66 TMP o-Xylene	0.554	0.575	-3.8	100	0.00
67 TMP Styrene	0.767	0.776	-1.2	100	0.00
68 TMP Bromoform	0.895	0.959	-7.2	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.726	2.0	100	0.00
70 TMP Benzyl chloride	0.931	0.873	6.2	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.220	7.9	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	0.903	22.4	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.928	4.5	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.853	5.2	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.887	5.2	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.472	20.0	100	0.00
77 TMP Naphthalene	1.053	0.791	24.9	101	0.00
78 TMP Hexachlorobutadiene	0.831	0.788	5.2	100	0.00

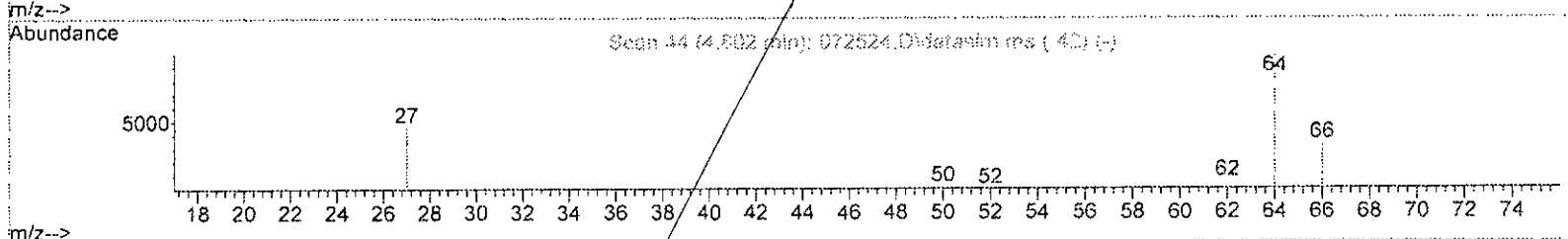
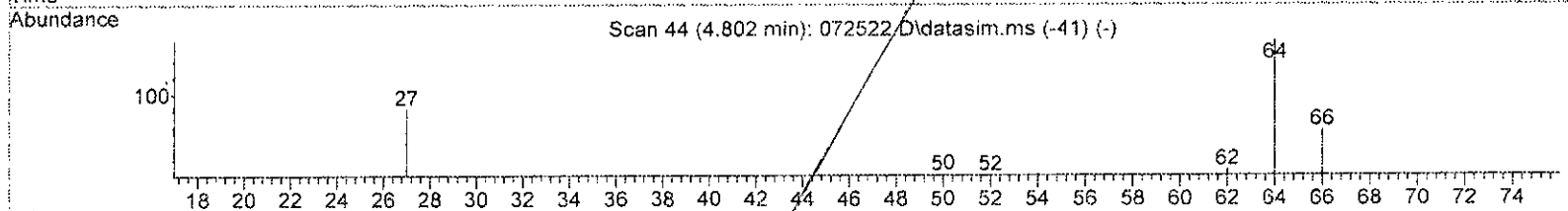
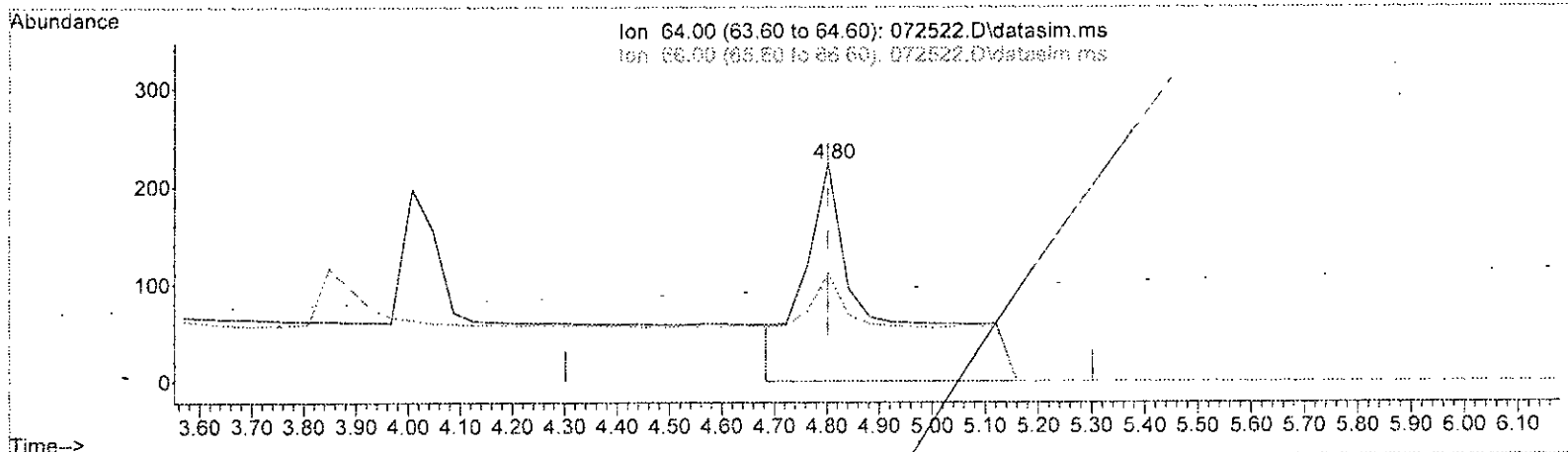
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

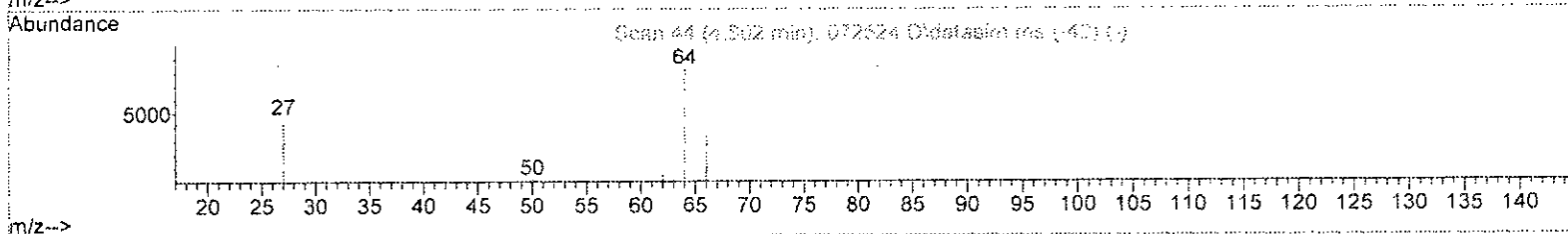
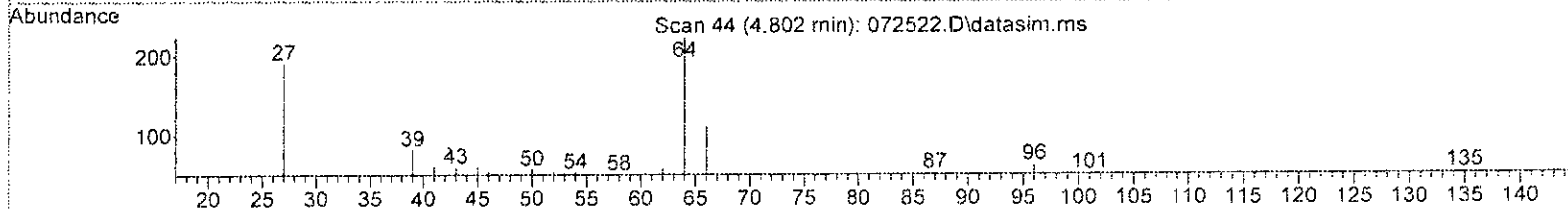
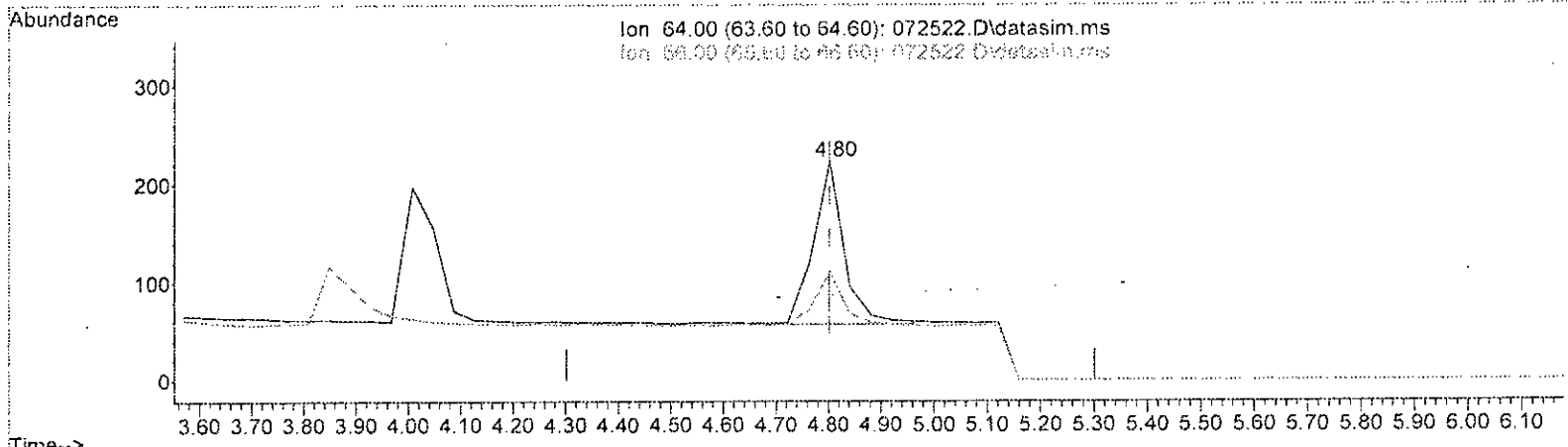
. (10) Chloroethane (TMP)		
4.802min (+ 0.000)	1.481 ppbv	
response	2101	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	49.78
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 6/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 0.476 ppbv m

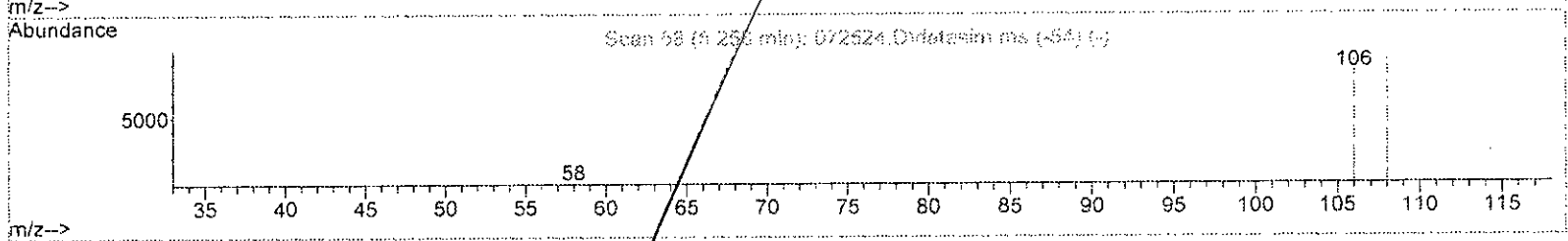
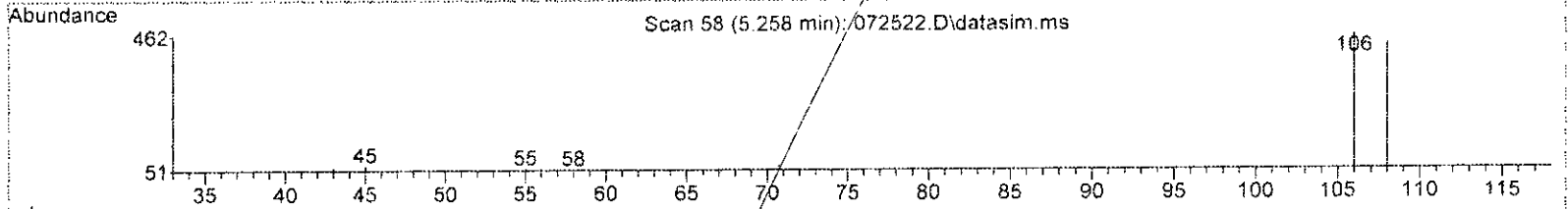
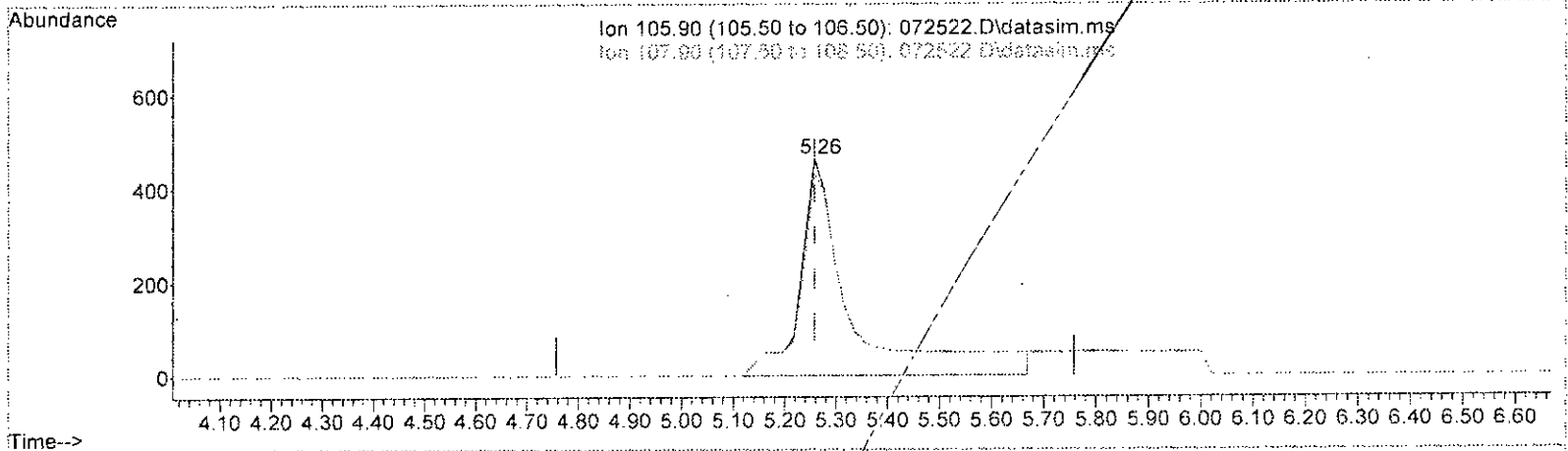
response	675	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	49.78
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072522.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 0.981 ppbv

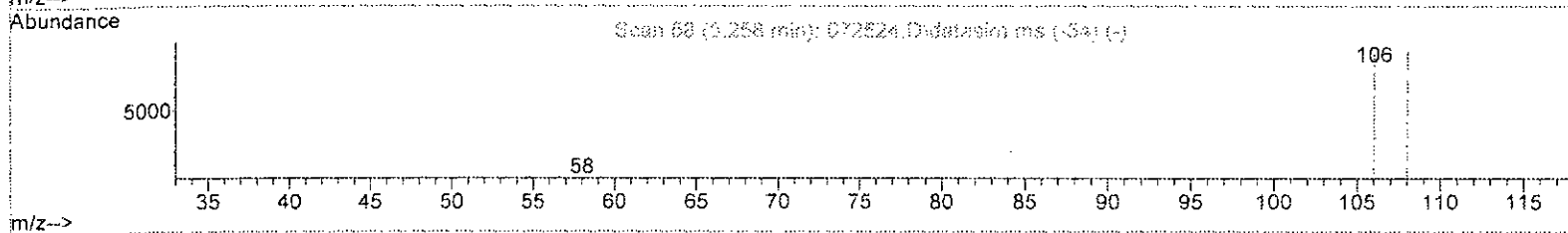
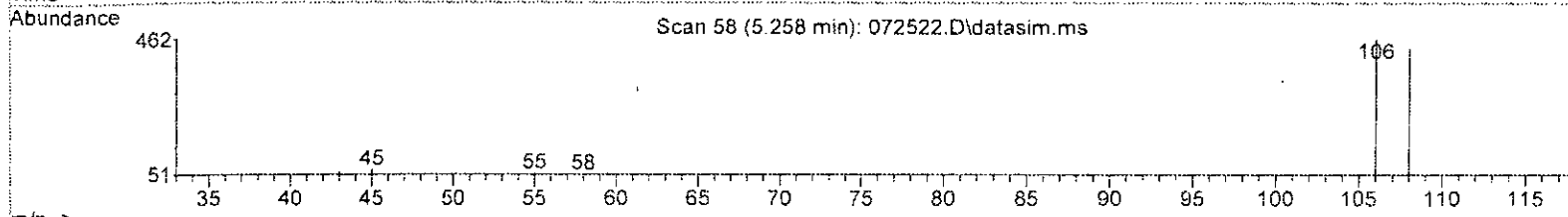
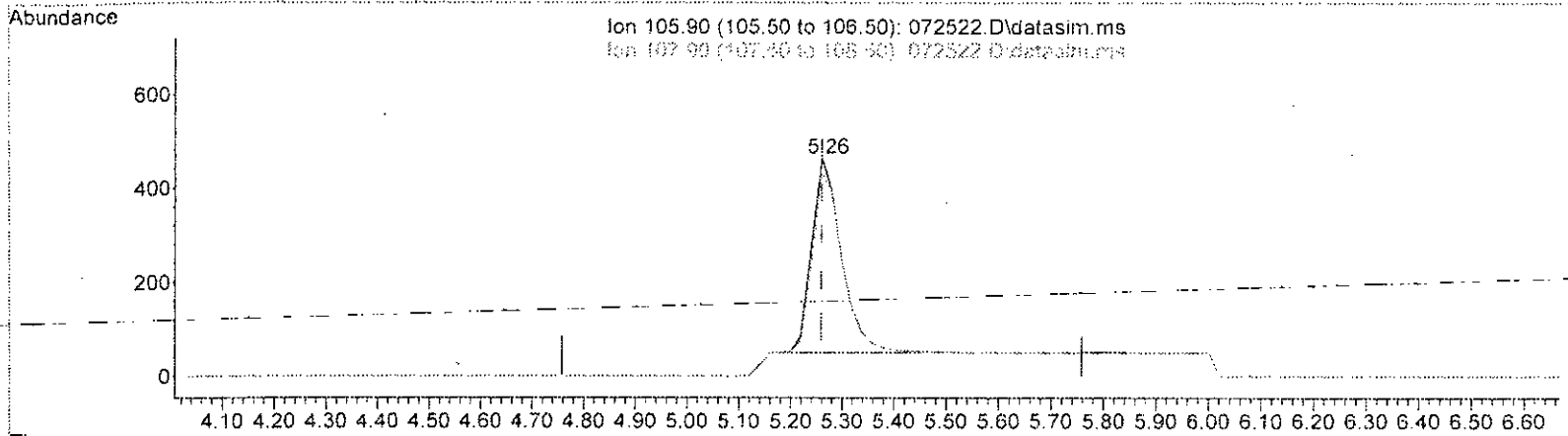
response	3484	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	93.86
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(11) Vinyl bromide (TMP)  
 5.258min (-0.000) 0.467 ppbv m

response	1656
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 197.46#
0.00	0.00 0.00
0.00	0.00 0.00

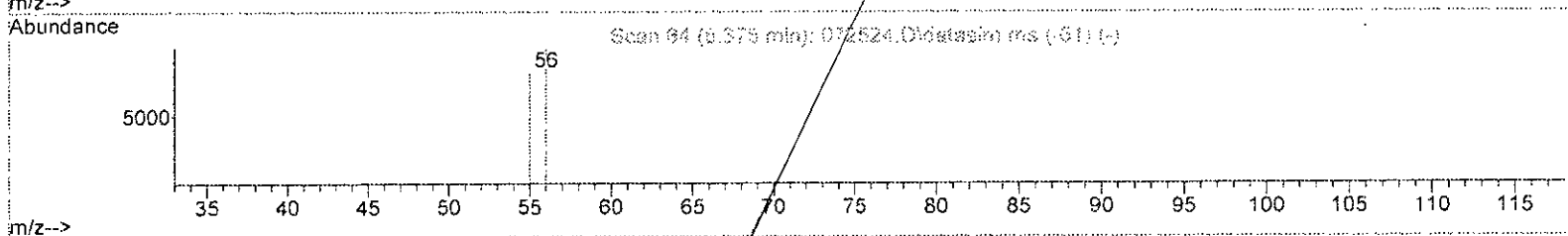
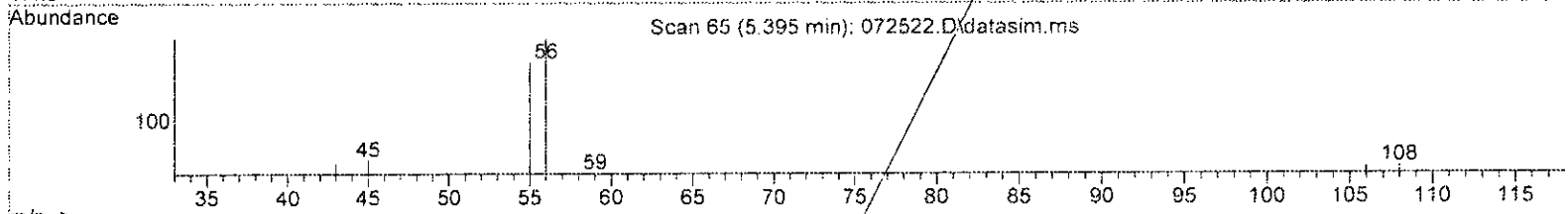
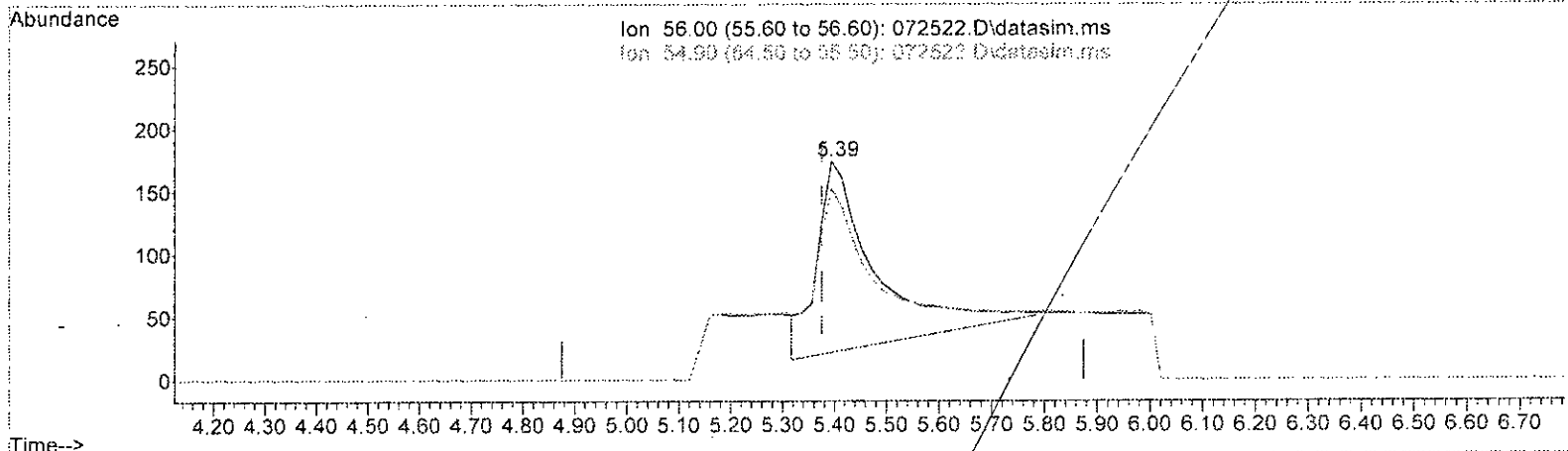
2/31/23



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

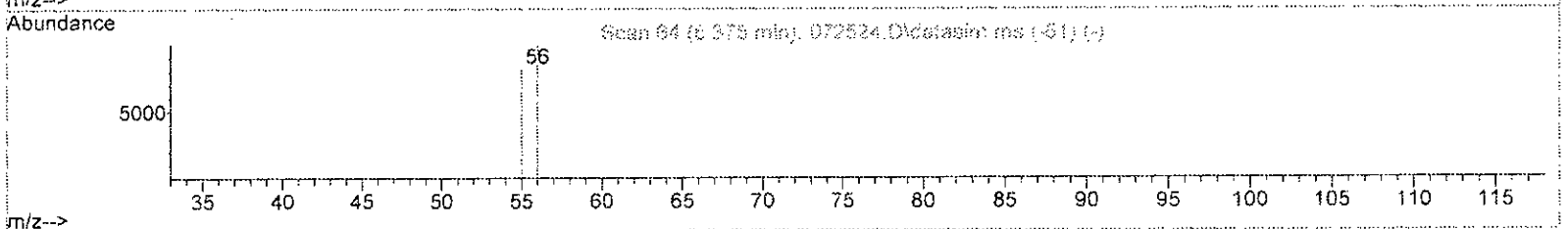
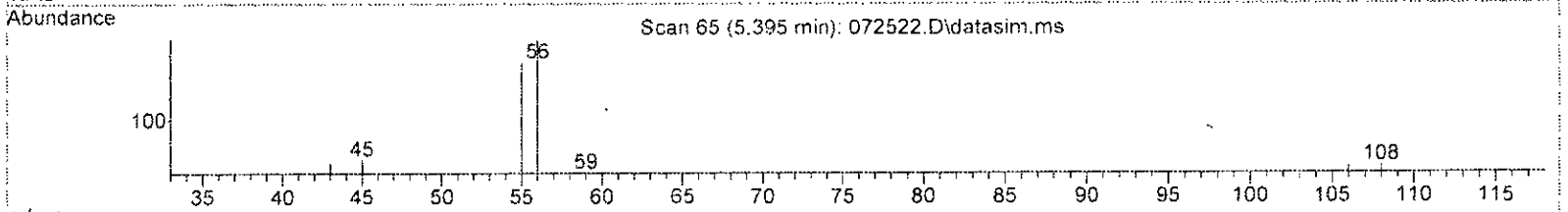
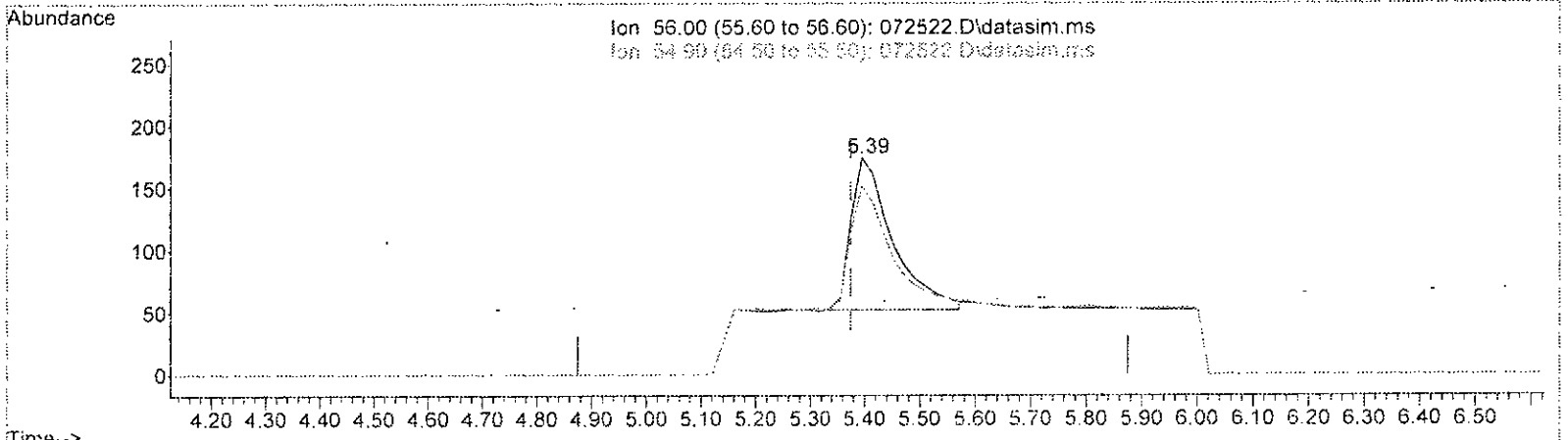
(13) Acrolein (TMP)		
5.395min (+ 0.020)	0.795 ppbv	
response	1192	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	78.44
0.00	0.00	0.00
0.00	0.00	0.00

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072522.D\data.ms

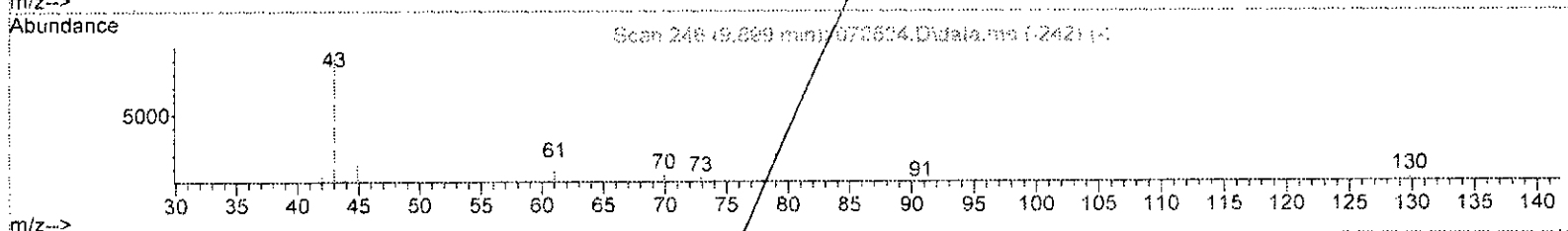
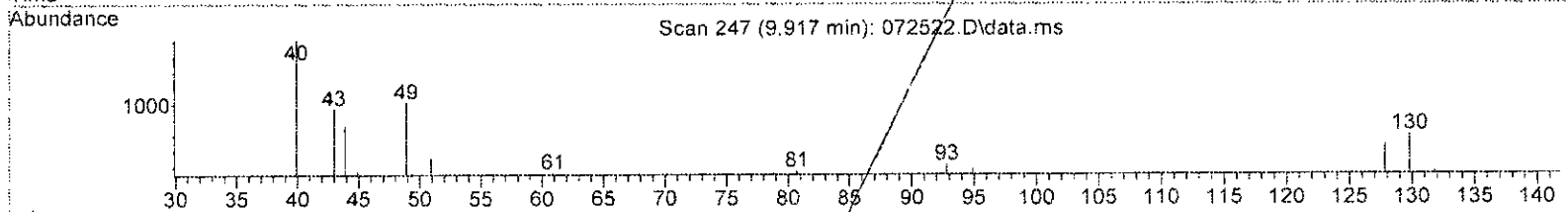
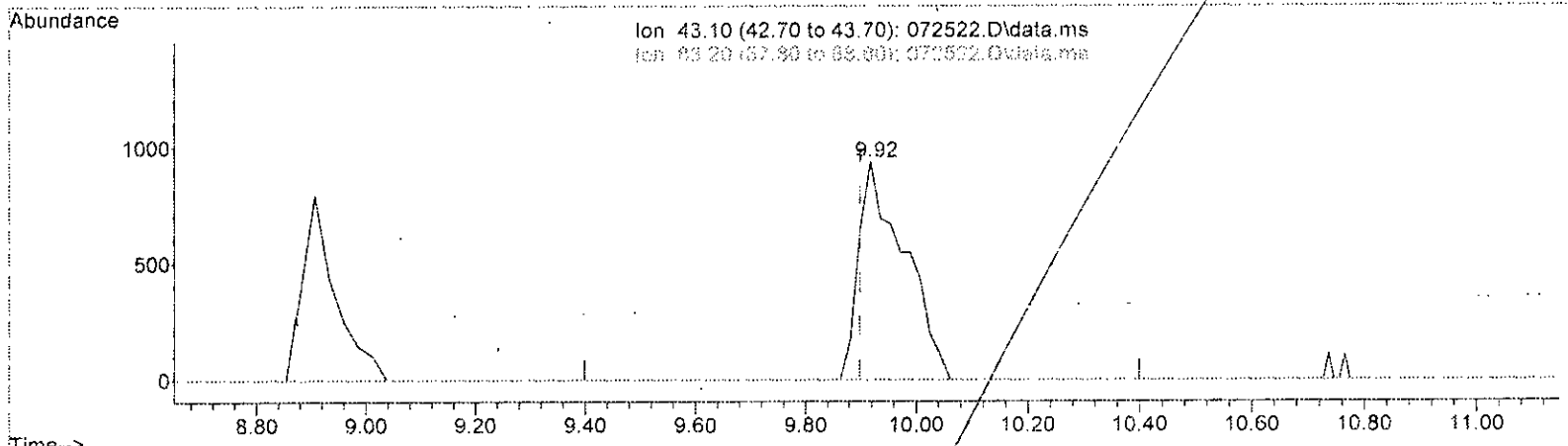
(13) Acrolein (TMP)		
5.395min (+ 0.020)	0.424 ppbv m	
response	636	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	85.38
0.00	0.00	0.00
0.00	0.00	0.00

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\072ST015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(31) Ethyl acetate (TMP)  
 9.917min (+ 0.018) 0.668 ppbv  
 response 5303

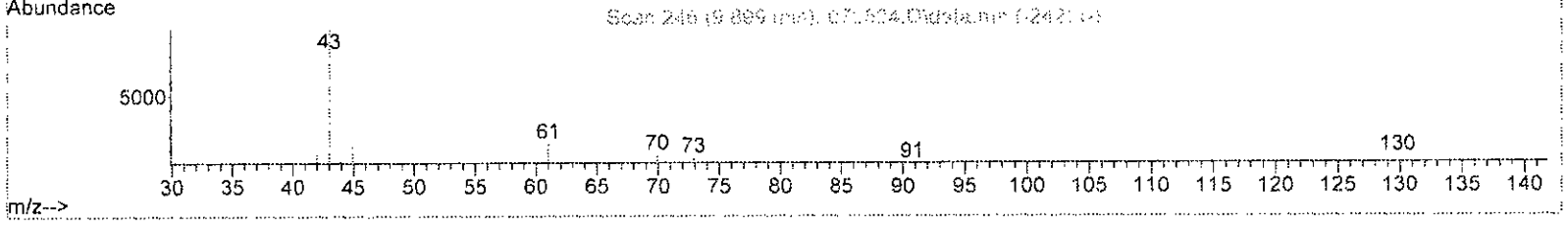
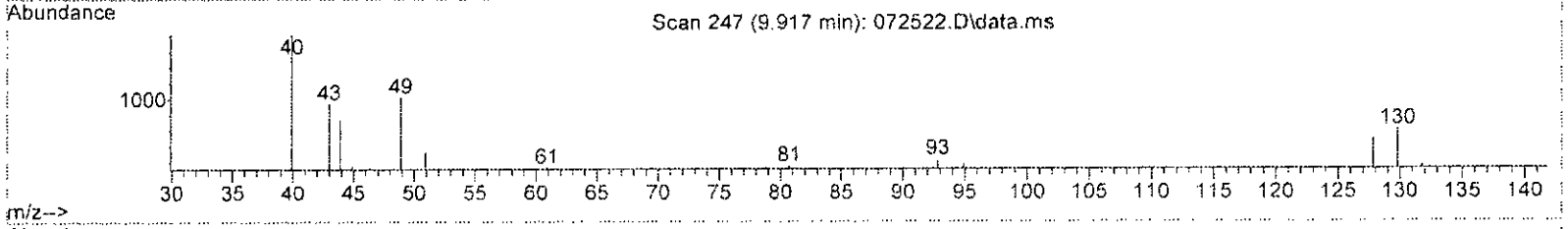
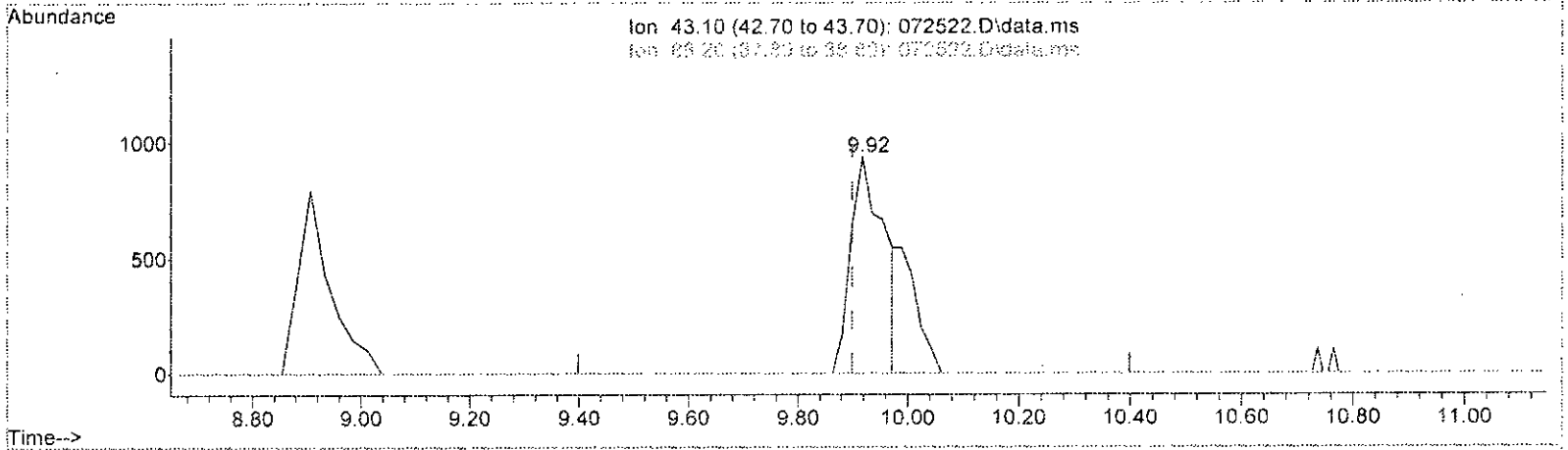
Ion	Exp%	Act%
43.10	100.00	100.00
88.20	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature:* 2/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(31) Ethyl acetate (TMP)

9.917min (+ 0.018) 0.494 ppbv m

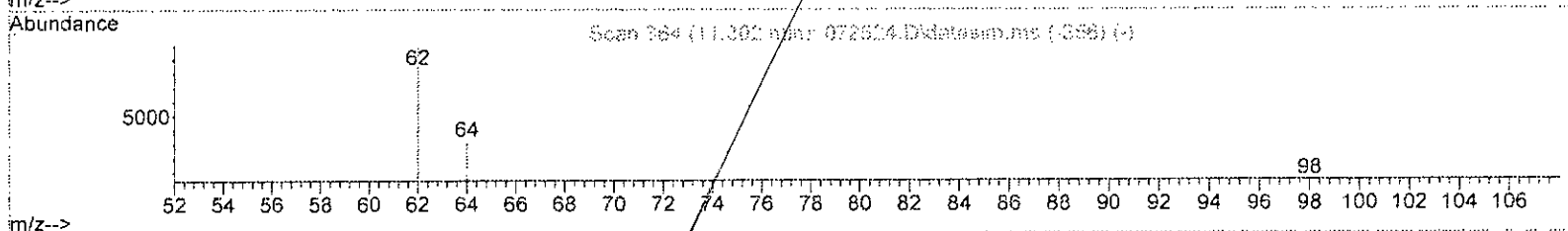
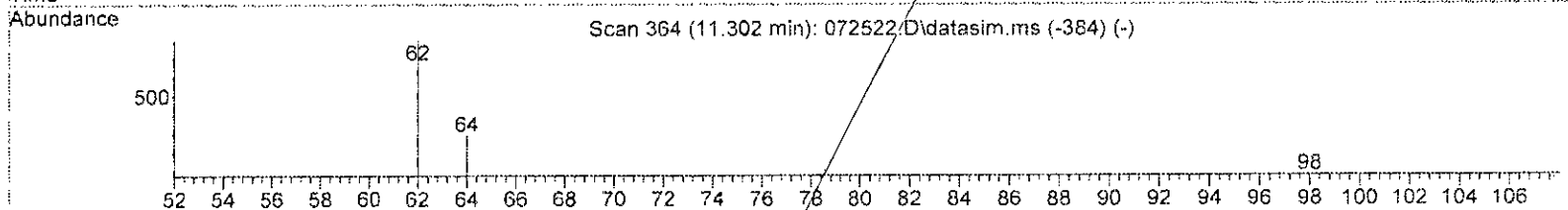
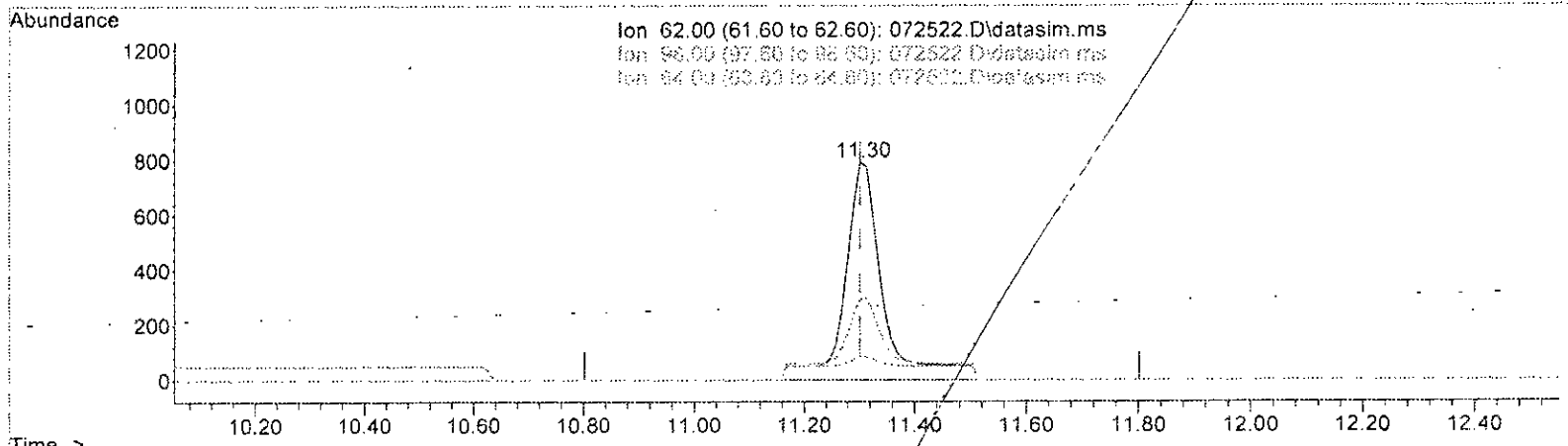
response	3926
Ion	Exp% Act%
43.10	100.00 100.00
88.20	1.70 0.00#
0.00	0.00 0.00
0.00	0.00 0.00

*W/ 7/27/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMT)

11.302min (+ 0.000) 0.642 ppbv

response 3747

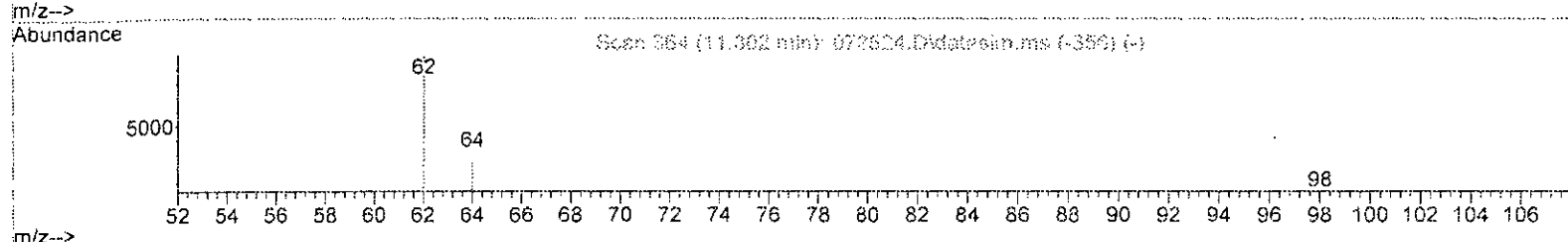
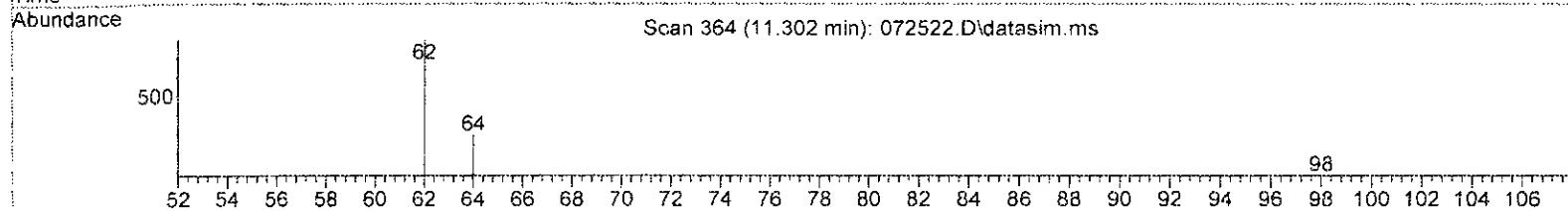
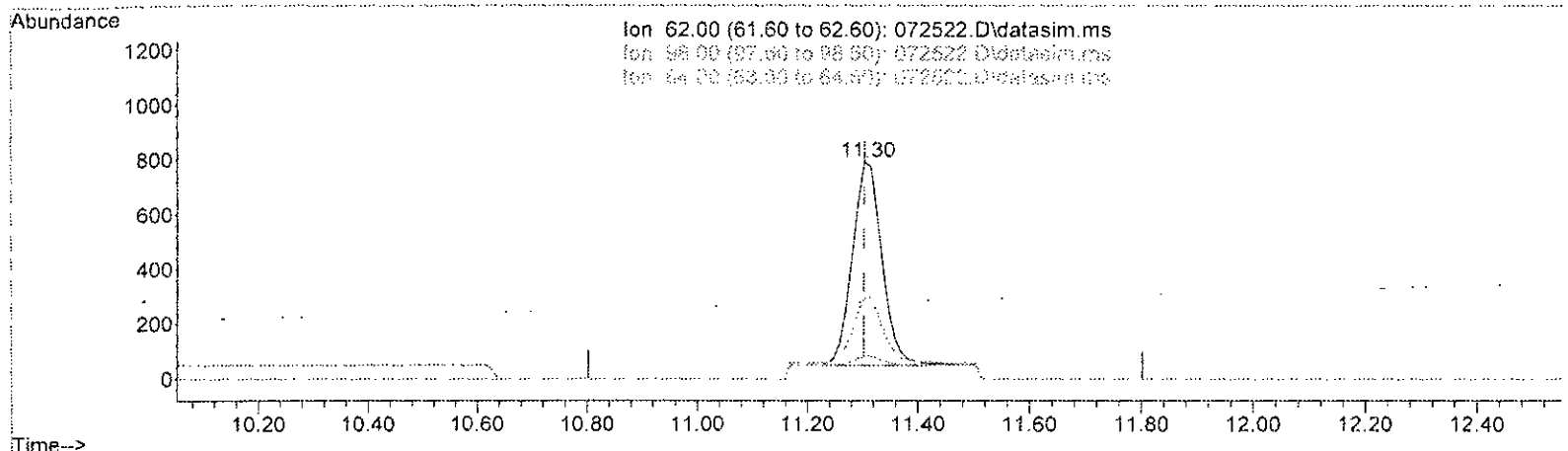
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	10.23
64.00	33.00	36.87
0.00	0.00	0.00

*Handwritten signature:* h/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.470 ppbv m

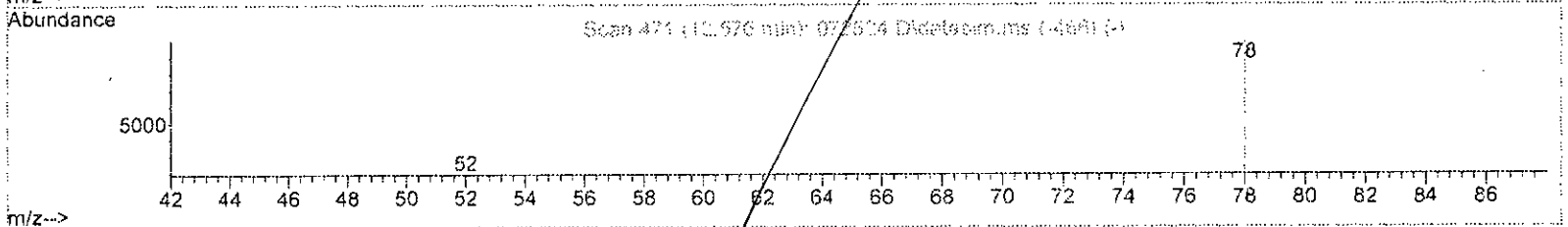
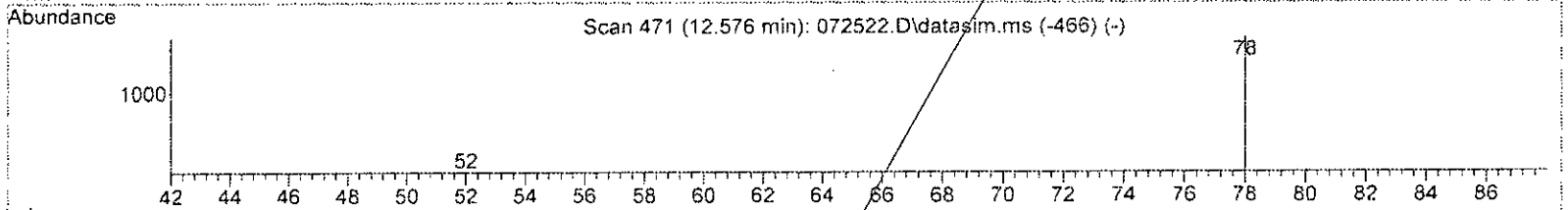
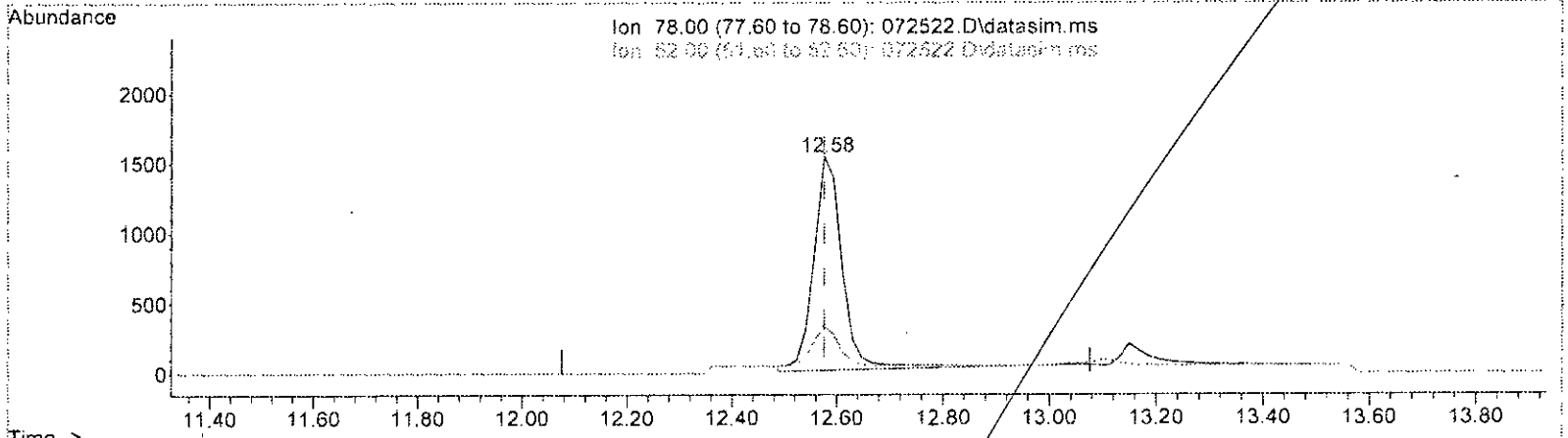
response	2742	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	10.23
64.00	33.00	36.87
0.00	0.00	0.00

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(37) Benzene (TMP)

12.576min (+ 0.000) 0.510 ppbv

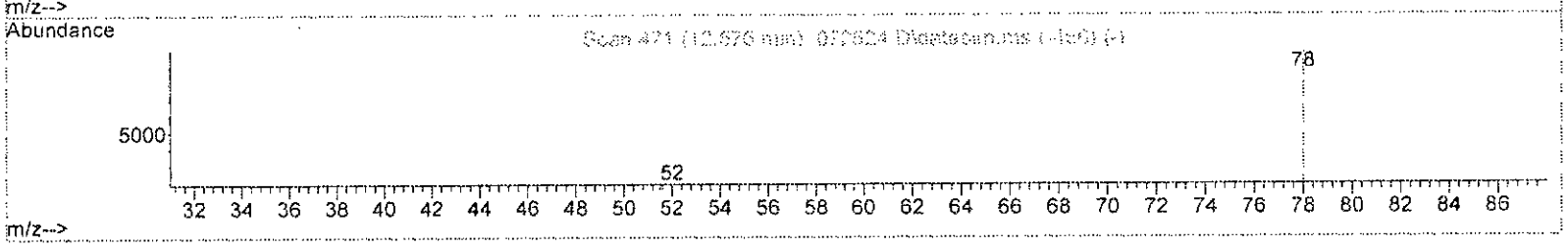
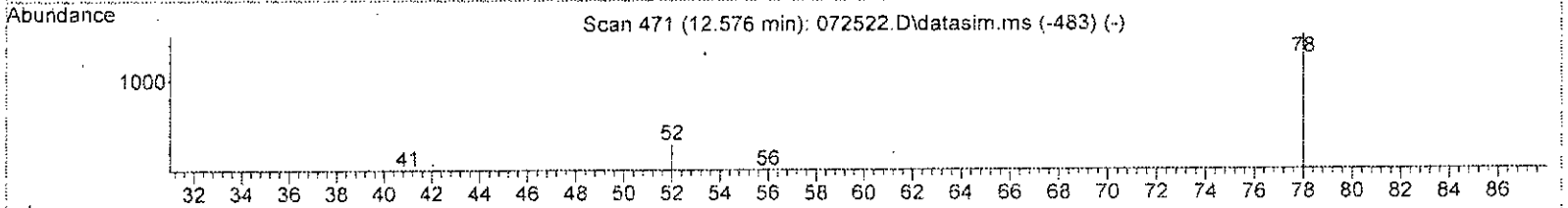
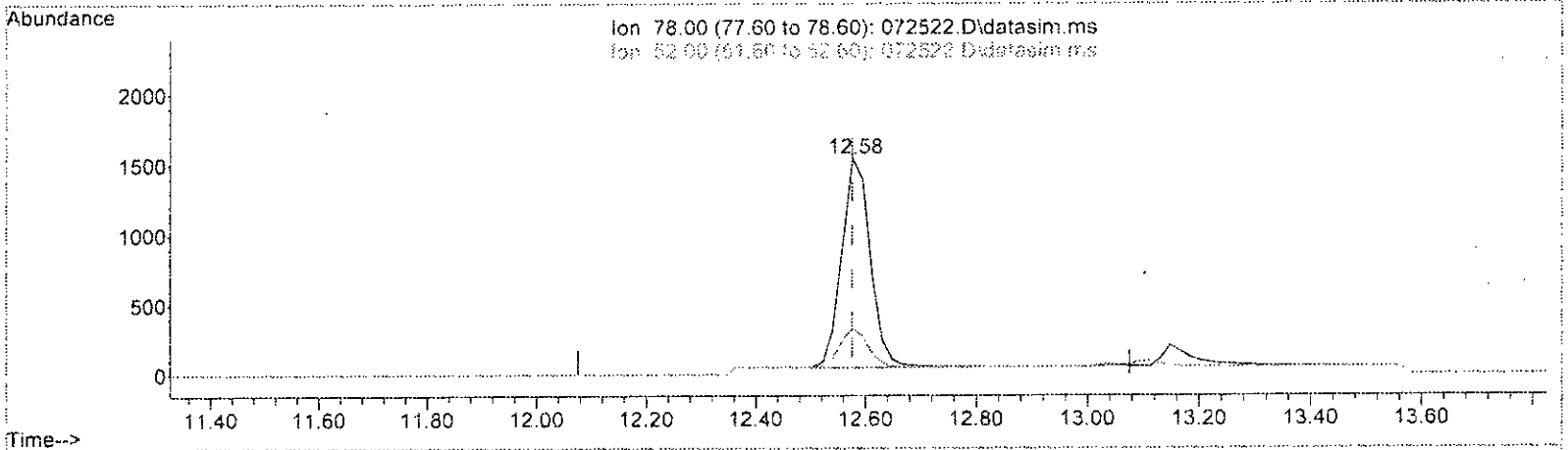
response	5877	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	19.10
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*  
 7/27/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(37) Benzene (TMP)		
12.576min (+ 0.000)	0.465 ppbv m	
response	5366	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	21.83
0.00	0.00	0.00
0.00	0.00	0.00

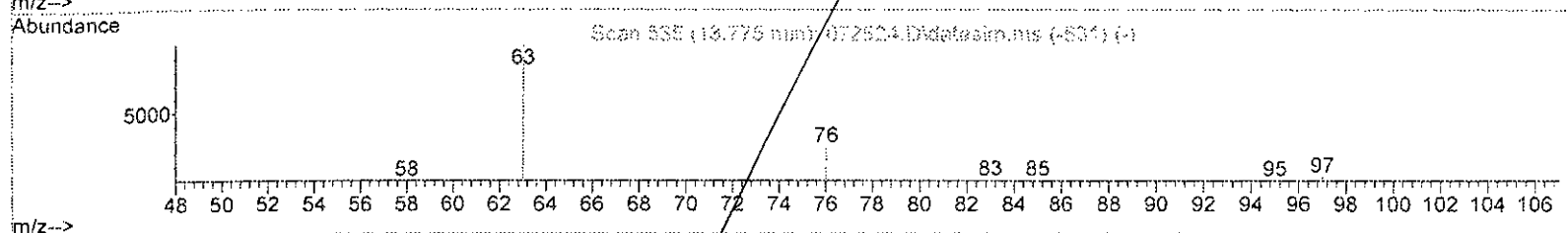
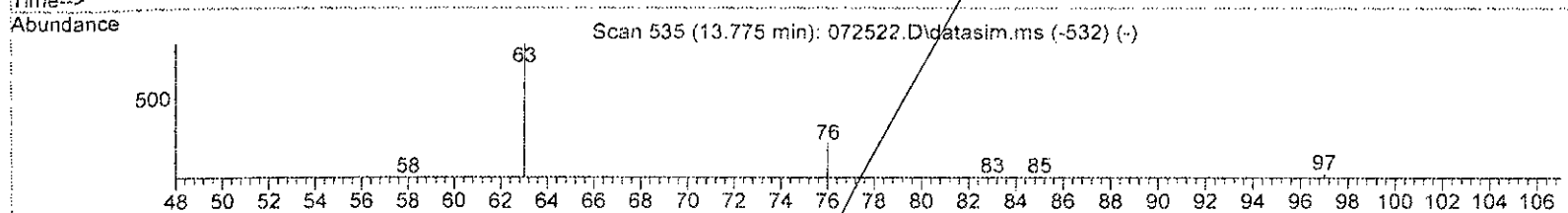
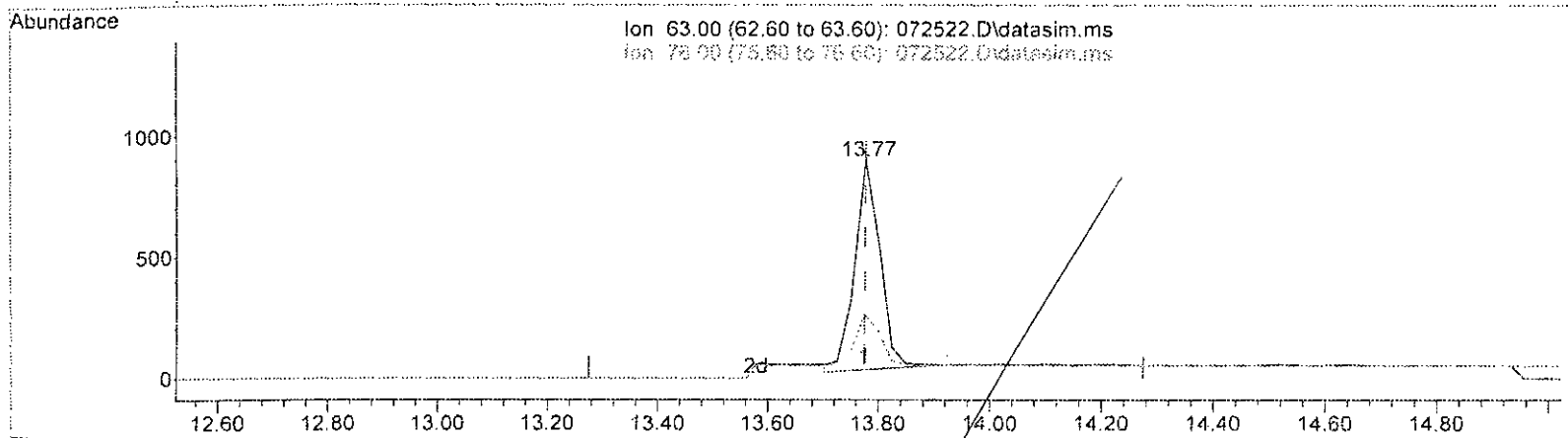
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.495 ppbv

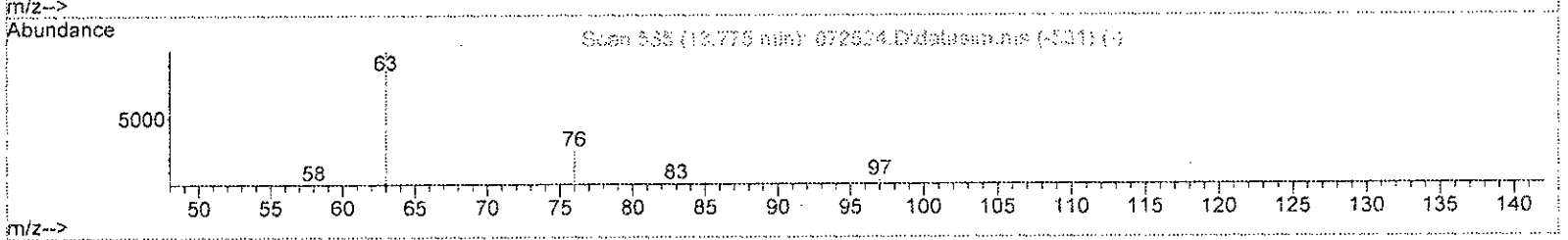
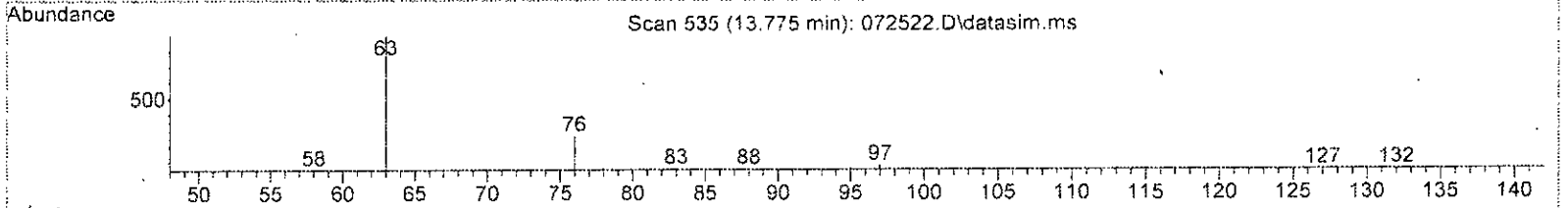
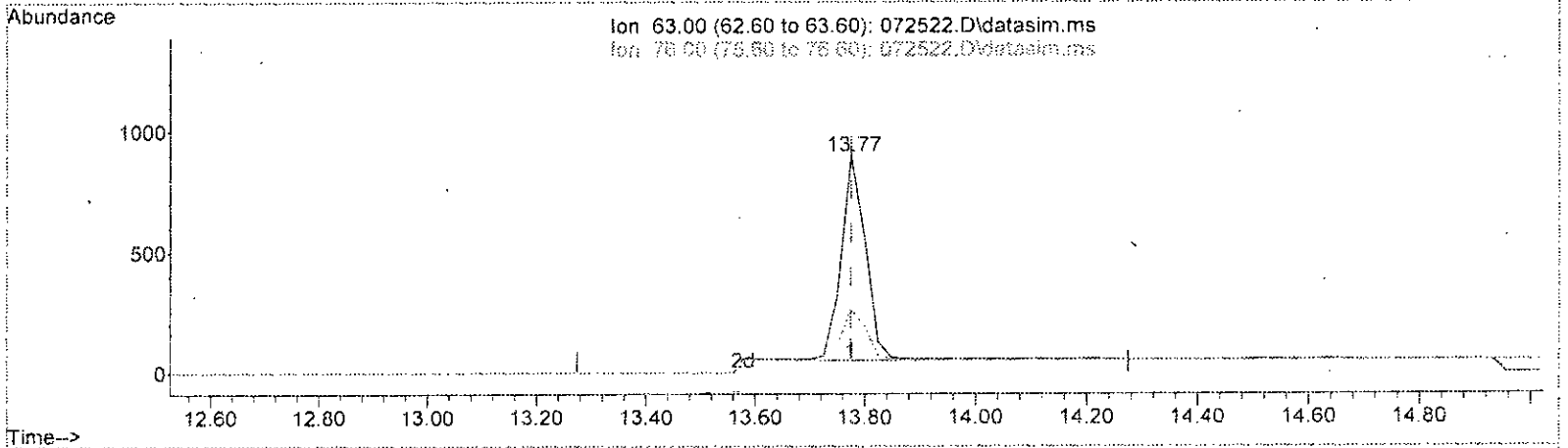
response	2714	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	25.21
0.00	0.00	0.00
0.00	0.00	0.00

5/12/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

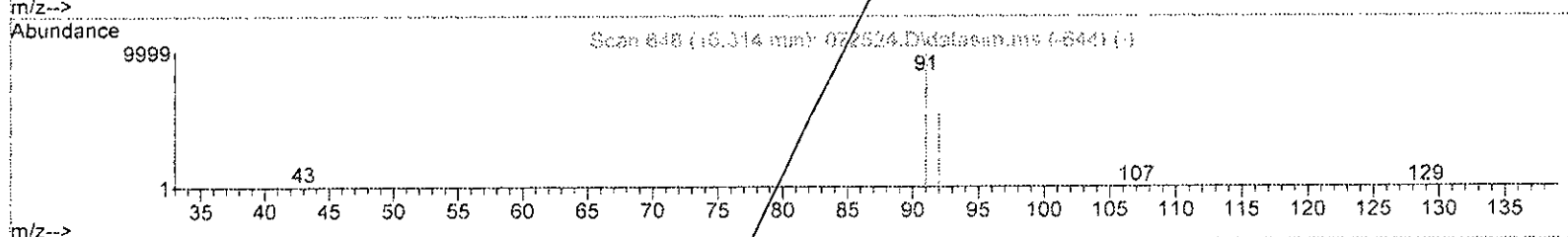
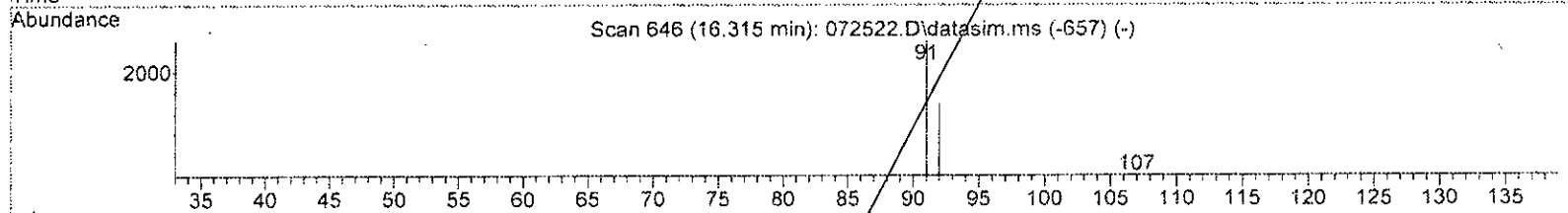
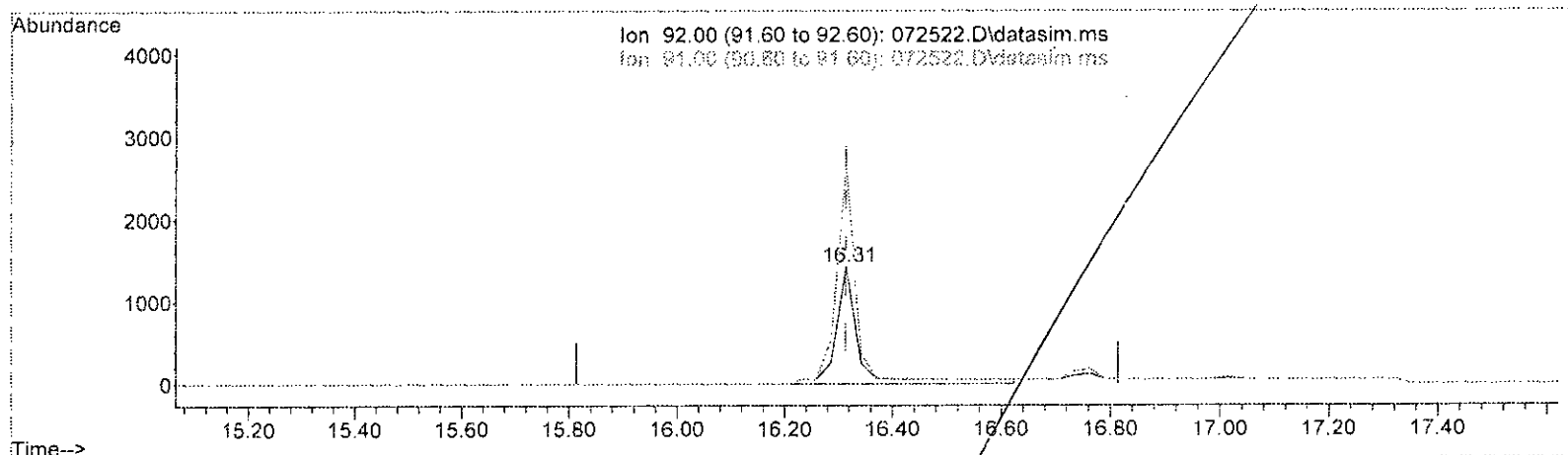
(40)	1,2-Dichloropropane (TMP)	
13.775min (-0.000)	0.469 ppbv m	
response	2568	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	29.35
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCM57 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(50) Toluene (TMP)

16.315min (+ 0.001) 0.627 ppbv

response 4220

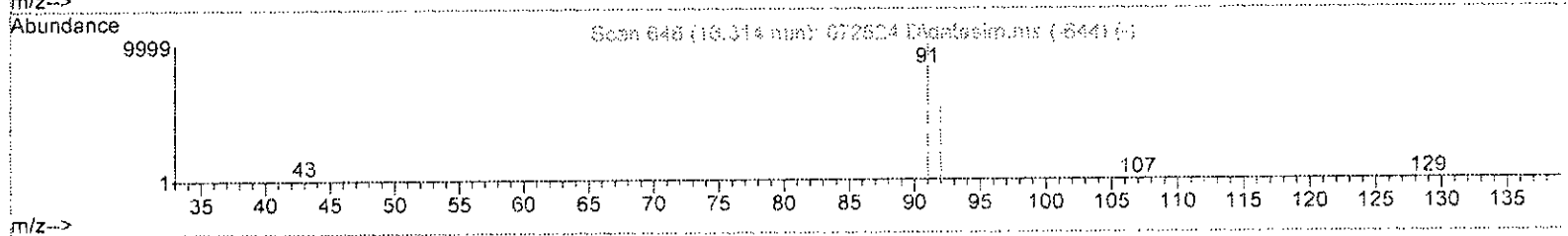
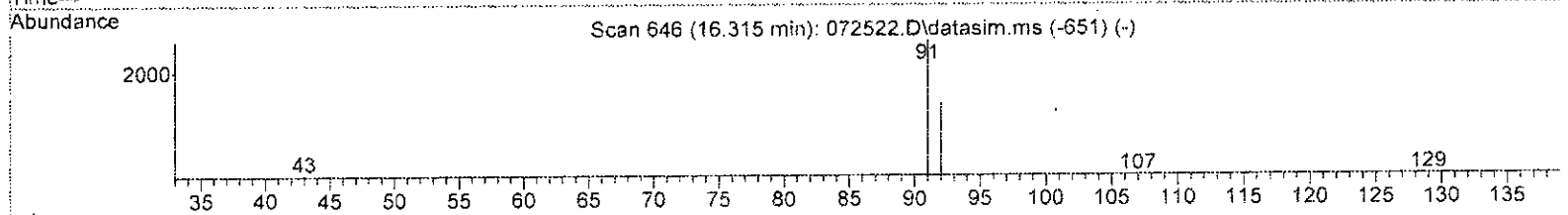
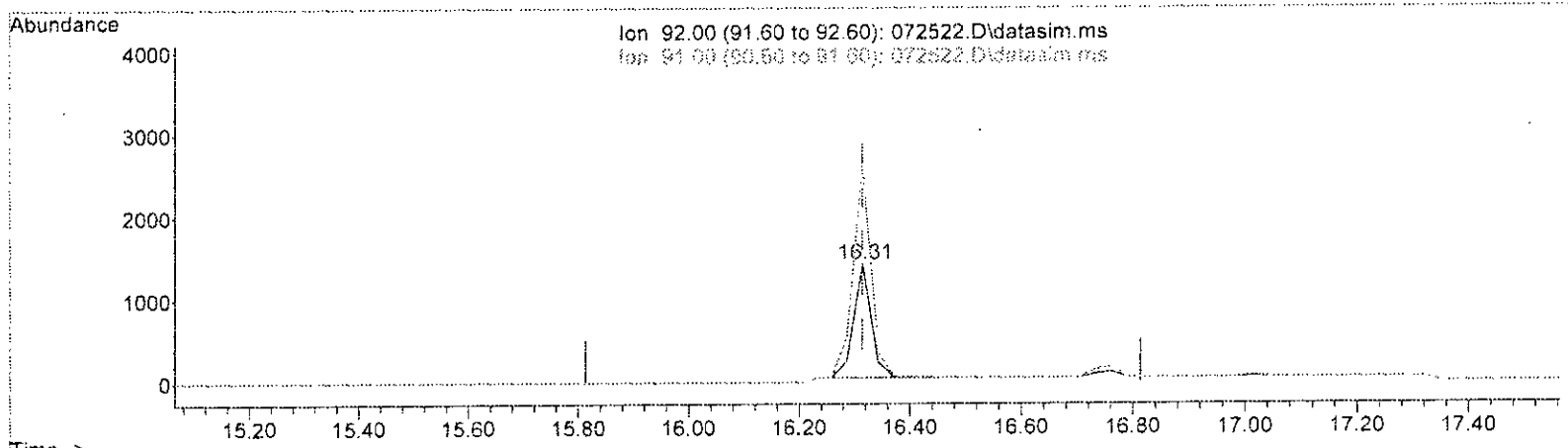
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	185.25
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : TS  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072522.D\data.ms

(50) Toluene (TMP)		
16.315min (+ 0.001)	0.449	ppbv m
response	3021	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	185.25
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*  
 7/27/23

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	20575	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	88565	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	72988	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	53555	9.902	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	1109	0.441	ppbv	68
3) Dichlorodifluoromethane	3.49	85	4533	0.448	ppbv	97
4) Chloromethane	3.69	50	1657	0.470	ppbv	97
5) F-114	3.88	85	4032	0.457	ppbv	93
6] Vinyl chloride	4.01	62	1894	0.475	ppbv	96
7] 1,3-Butadiene	4.21	54	1228	0.481	ppbv #	87
8) Butane	4.32	43	2236	0.438	ppbv #	80
9) Bromomethane	4.56	94	1578	0.448	ppbv	97
10] Chloroethane	4.80	64	675m	0.476	ppbv	
11] Vinyl bromide	5.26	106	1656m	0.467	ppbv	
12) Ethanol	0.00		0	N.D.		
13] Acrolein	5.39	56	636m	0.424	ppbv	
14) Pentane	6.25	43	2493	0.427	ppbv	94
15) Trichlorofluoromethane	5.82	101	3914	0.397	ppbv	88
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	5.80	45	2253	0.374	ppbv #	89
18] 1,1-Dichloroethene	6.65	96	1614	0.478	ppbv	99
19] trans-1,2-Dichloroethene	8.07	96	1643	0.491	ppbv #	81
20) Methylene chloride	6.78	84	1731	0.525	ppbv	89
21) t-Butyl alcohol (TBA)	6.57	59	2236	0.427	ppbv #	78
22) 3-Chloropropene	6.94	41	2045	0.479	ppbv	99
23) CFC-113	7.15	101	3367	0.464	ppbv	94
24) Carbon disulfide	7.25	76	5265	0.481	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	3333	0.467	ppbv	96
26) Vinyl acetate	8.51	43	3611	0.454	ppbv	87
27] 1,1-Dichloroethane	8.33	63	3540	0.478	ppbv	96
28] cis-1,2-Dichloroethene	9.60	96	1719	0.471	ppbv	84
29) Hexane	9.99	57	1971	0.439	ppbv	80
30] Chloroform	10.07	83	4149	0.482	ppbv	99
31) Ethyl acetate	9.92	43	3926m	0.494	ppbv	
32) Tetrahydrofuran	10.75	42	1497	0.399	ppbv	76
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34] 1,2-Dichloroethane (EDC)	11.30	62	2742m	0.470	ppbv	
35] 1,1,1-Trichloroethane	11.79	97	3409	0.485	ppbv	94
36] Carbon tetrachloride	12.83	117	3559	0.490	ppbv	98
37] Benzene	12.58	78	5366m	0.465	ppbv	
38) Cyclohexane	13.05	84	1461	0.507	ppbv	93
40] 1,2-Dichloropropane	13.77	63	2568m	0.469	ppbv	

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

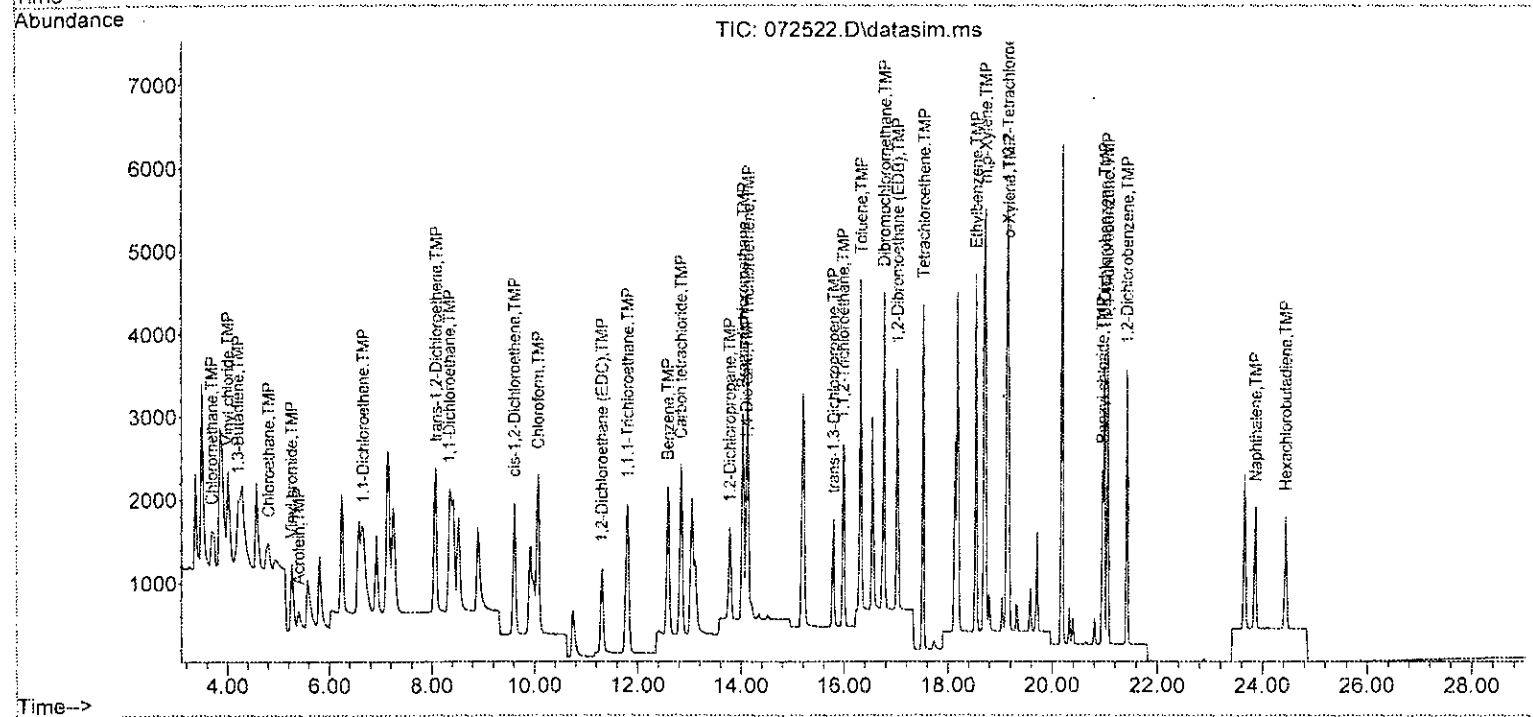
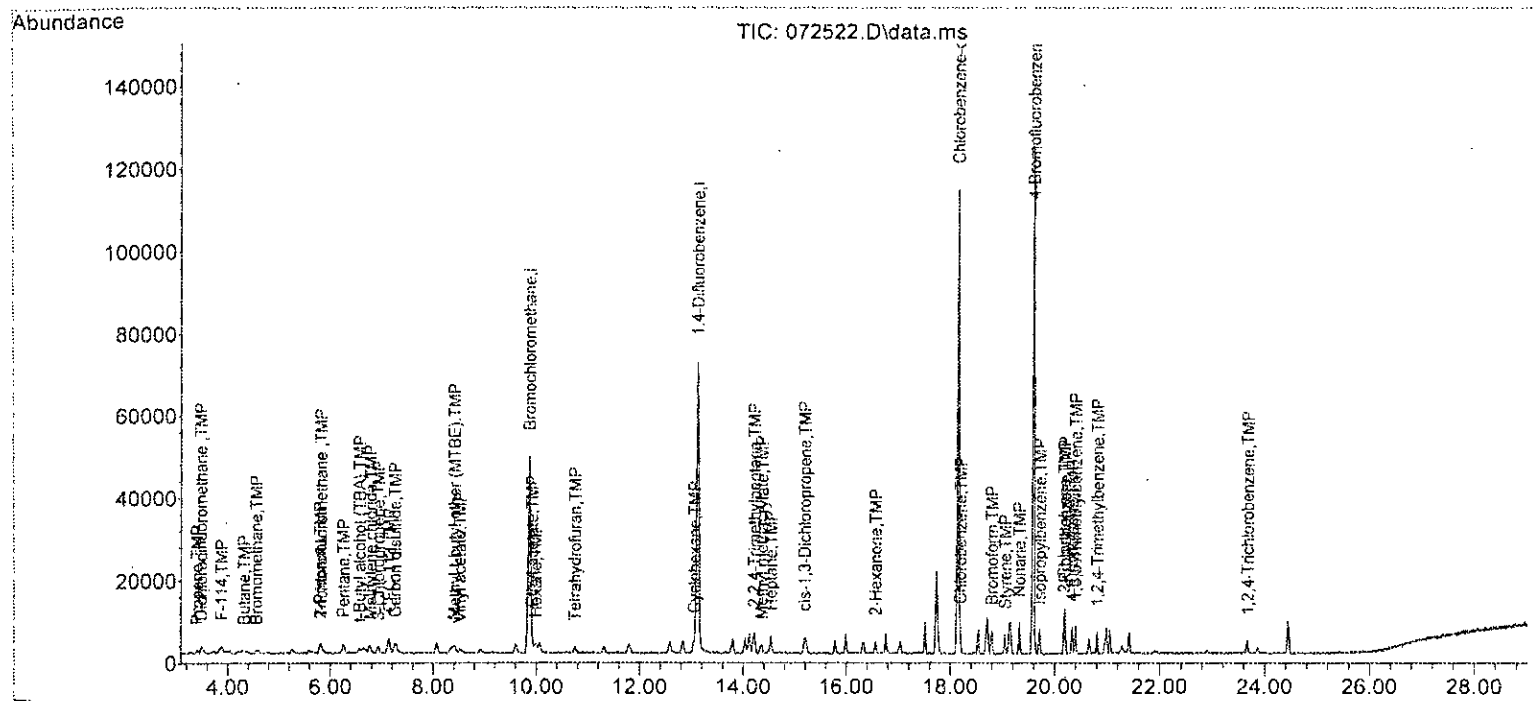
Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	973	0.471	ppbv	91
42] 2,2,4-Trimethylpentane	14.21	57	7433	0.458	ppbv #	91
43] Methyl methacrylate	14.36	41	2366	0.500	ppbv #	81
44] Heptane	14.53	43	2686	0.462	ppbv #	89
45] Bromodichloromethane	14.02	83	4279	0.481	ppbv	100
46] Trichloroethene	14.12	95	2653	0.466	ppbv	95
47] cis-1,3-Dichloropropene	15.18	75	2506	0.422	ppbv	88
48] 4-Methyl-2-pentanone	0.00		0	N.D.		
49] trans-1,3-Dichloropropene	15.78	75	2498	0.466	ppbv	96
50] Toluene	16.31	92	3021m	0.449	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	2398	0.468	ppbv	98
52] 2-Hexanone	16.56	43	3110	0.421	ppbv	95
53] Tetrachloroethene	17.52	164	2018	0.506	ppbv	91
54] Dibromochloromethane	16.76	129	3990	0.438	ppbv	92
55] 1,2-Dibromoethane (EDB)	17.01	107	3743	0.464	ppbv	82
57] Chlorobenzene	18.19	112	3701	0.474	ppbv	94
58] Ethylbenzene	18.53	91	6285	0.478	ppbv	100
59] 1,1,2,2-Tetrachloroethane	19.13	83	5324	0.482	ppbv	93
60] Nonane	19.32	43	3499	0.546	ppbv #	90
61] Isopropylbenzene	19.72	105	5521	0.487	ppbv	98
62] 2-Chlorotoluene	20.17	126	1398	0.476	ppbv	94
63] Propylbenzene	20.19	91	11669	0.493	ppbv	93
64] 4-Ethyltoluene	20.33	105	4914	0.453	ppbv	100
65] m,p-Xylene	18.70	106	4204	0.949	ppbv	97
66] o-Xylene	19.15	106	2001	0.495	ppbv	93
67] Styrene	19.05	104	2570	0.459	ppbv	99
68] Bromoform	18.80	173	3735	0.572	ppbv	91
70] Benzyl chloride	20.95	91	3200	0.471	ppbv	91
71] 1,3,5-Trimethylbenzene	20.39	105	4571	0.473	ppbv	92
72] 1,2,4-Trimethylbenzene	20.81	105	3743	0.441	ppbv	93
73] 1,3-Dichlorobenzene	20.99	146	3307	0.466	ppbv	91
74] 1,4-Dichlorobenzene	21.05	146	3068	0.467	ppbv	90
75] 1,2-Dichlorobenzene	21.41	146	3165	0.463	ppbv	95
76] 1,2,4-Trichlorobenzene	23.67	180	2034	0.472	ppbv	98
77] Naphthalene	23.86	128	2979	0.390	ppbv	99
78] Hexachlorobutadiene	24.44	225	2859	0.472	ppbv	99

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	0.500	0.441	11.8	100	0.00
3 TMP	Dichlorodifluoromethane	0.500	0.448	10.4	100	0.00
4 TMP	Chloromethane	0.500	0.470	6.0	100	0.00
5 TMP	F-114	0.500	0.457	8.6	100	0.00
6 TMP	Vinyl chloride	0.500	0.475	5.0	100	0.00
7 TMP	1,3-Butadiene	0.500	0.481	3.8	100	0.00
8 TMP	Butane	0.500	0.438	12.4	100	0.04
9 TMP	Bromomethane	0.500	0.448	10.4	100	0.00
10 TMP	Chloroethane	0.500	0.476	4.8	100	0.00
11 TMP	Vinyl bromide	0.500	0.467	6.6	98	0.00
12 TMP	Ethanol	0.500	0.000	100.0#	0	-4.92#
13 TMP	Acrolein	0.500	0.424	15.2	99	0.02
14 TMP	Pentane	0.500	0.427	14.6	100	0.00
15 TMP	Trichlorofluoromethane	0.500	0.397	20.6	100	0.02
16 TMP	Acetone	0.500	0.000	100.0#	0	-5.54#
17 TMP	2-Propanol	0.500	0.374	25.2	100	0.02
18 TMP	1,1-Dichloroethene	0.500	0.478	4.4	100	0.00
19 TMP	trans-1,2-Dichloroethene	0.500	0.491	1.8	100	0.00
20 TMP	Methylene chloride	0.500	0.525	-5.0	100	0.00
21 TMP	t-Butyl alcohol (TBA)	0.500	0.427	14.6	100	0.00
22 TMP	3-Chloropropene	0.500	0.479	4.2	100	0.00
23 TMP	CFC-113	0.500	0.464	7.2	100	0.00
24 TMP	Carbon disulfide	0.500	0.481	3.8	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	0.500	0.467	6.6	100	0.00
26 TMP	Vinyl acetate	0.500	0.454	9.2	100	0.00
27 TMP	1,1-Dichloroethane	0.500	0.478	4.4	100	0.00
28 TMP	cis-1,2-Dichloroethene	0.500	0.471	5.8	100	0.00
29 TMP	Hexane	0.500	0.439	12.2	100	0.00
30 TMP	Chloroform	0.500	0.482	3.6	100	0.00
31 TMP	Ethyl acetate	0.500	0.494	1.2	100	0.02
32 TMP	Tetrahydrofuran	0.500	0.399	20.2	100	0.03
33 TMP	2-Butanone (MEK)	0.500	0.000	100.0#	0	-8.88#
34 TMP	1,2-Dichloroethane (EDC)	0.500	0.470	6.0	102	0.00
35 TMP	1,1,1-Trichloroethane	0.500	0.485	3.0	100	0.00
36 TMP	Carbon tetrachloride	0.500	0.490	2.0	100	0.00
37 TMP	Benzene	0.500	0.465	7.0	100	0.00
38 TMP	Cyclohexane	0.500	0.507	-1.4	100	0.02
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.500	0.469	6.2	100	0.00
41 TMP	1,4-Dioxane	0.500	0.471	5.8	100	0.02
42 TMP	2,2,4-Trimethylpentane	0.500	0.458	8.4	100	0.00
43 TMP	Methyl methacrylate	0.500	0.500	0.0	100	0.02



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	0.500	0.462	7.6	100	0.00
45 TMP Bromodichloromethane	0.500	0.481	3.8	100	0.00
46 TMP Trichloroethene	0.500	0.466	6.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.500	0.422	15.6	100	0.00
48 TMP 4-Methyl-2-pentanone	0.500	0.000	100.0#	0	-15.21#
49 TMP trans-1,3-Dichloropropene	0.500	0.466	6.8	100	0.00
50 TMP Toluene	0.500	0.449	10.2	99	0.00
51 TMP 1,1,2-Trichloroethane	0.500	0.468	6.4	100	0.00
52 TMP 2-Hexanone	0.500	0.421	15.8	100	0.00
53 TMP Tetrachloroethene	0.500	0.506	-1.2	106	0.00
54 TMP Dibromochloromethane	0.500	0.488	2.4	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.500	0.464	7.2	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.500	0.474	5.2	100	0.00
58 TMP Ethylbenzene	0.500	0.478	4.4	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.500	0.482	3.6	100	0.00
60 TMP Nonane	0.500	0.546	-9.2	100	0.00
61 TMP Isopropylbenzene	0.500	0.487	2.6	100	0.00
62 TMP 2-Chlorotoluene	0.500	0.476	4.8	100	0.00
63 TMP Propylbenzene	0.500	0.493	1.4	100	0.00
64 TMP 4-Ethyltoluene	0.500	0.453	9.4	100	0.00
65 TMP m,p-Xylene	1.000	0.949	5.1	100	0.00
66 TMP o-Xylene	0.500	0.495	1.0	100	0.00
67 TMP Styrene	0.500	0.459	8.2	100	0.00
68 TMP Bromoform	0.500	0.572	-14.4	100	0.00
69 S 4-Bromofluorobenzene	10.000	9.902	1.0	100	0.00
70 TMP Benzyl chloride	0.500	0.471	5.8	100	0.00
71 TMP 1,3,5-Trimethylbenzene	0.500	0.473	5.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	0.500	0.441	11.8	100	0.00
73 TMP 1,3-Dichlorobenzene	0.500	0.466	6.8	100	0.00
74 TMP 1,4-Dichlorobenzene	0.500	0.467	6.6	100	0.00
75 TMP 1,2-Dichlorobenzene	0.500	0.463	7.4	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.500	0.472	5.6	100	0.00
77 TMP Naphthalene	0.500	0.390	22.0	100	0.00
78 TMP Hexachlorobutadiene	0.500	0.472	5.6	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	1.078	11.7	100	0.00
3 TMP Dichlorodifluoromethane	4.917	4.406	10.4	100	0.00
4 TMP Chloromethane	1.713	1.611	6.0	100	0.00
5 TMP F-114	4.288	3.919	8.6	100	0.00
6 TMP Vinyl chloride	1.937	1.841	5.0	100	0.00
7 TMP 1,3-Butadiene	1.242	1.194	3.9	100	0.00
8 TMP Butane	2.483	2.174	12.4	100	0.04
9 TMP Bromomethane	1.711	1.534	10.3	100	0.00
10 TMP Chloroethane	0.689	0.656	4.8	100	0.00
11 TMP Vinyl bromide	1.725	1.610	6.7	98	0.00
12 TMP Ethanol	0.543	0.000	100.0#	0#	-4.92#
13 TMP Acrolein	0.729	0.618	15.2	99	0.02
14 TMP Pentane	2.839	2.423	14.7	100	0.00
15 TMP Trichlorofluoromethane	4.796	3.805	20.7	100	0.02
16 TMP Acetone	0.670	0.000#	100.0#	0#	-5.54#
17 TMP 2-Propanol	2.930	2.190	25.3	100	0.02
18 TMP 1,1-Dichloroethene	1.641	1.569	4.4	100	0.00
19 TMP trans-1,2-Dichloroethene	1.625	1.597	1.7	100	0.00
20 TMP Methylene chloride	1.604	1.683	-4.9	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.544	2.174	14.5	100	0.00
22 TMP 3-Chloropropene	2.076	1.988	4.2	100	0.00
23 TMP CFC-113	3.525	3.273	7.1	100	0.00
24 TMP Carbon disulfide	5.324	5.118	3.9	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.240	6.5	100	0.00
26 TMP Vinyl acetate	3.863	3.510	9.1	100	0.00
27 TMP 1,1-Dichloroethane	3.597	3.441	4.3	100	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.671	5.8	100	0.00
29 TMP Hexane	2.181	1.916	12.2	100	0.00
30 TMP Chloroform	4.186	4.033	3.7	100	0.00
31 TMP Ethyl acetate	3.859	3.816	1.1	100	0.02
32 TMP Tetrahydrofuran	1.822	1.455	20.1	100	0.03
33 TMP 2-Butanone (MEK)	0.597	0.000	100.0#	0#	-8.88#
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.665	6.0	102	0.00
35 TMP 1,1,1-Trichloroethane	3.417	3.314	3.0	100	0.00
36 TMP Carbon tetrachloride	3.530	3.460	2.0	100	0.00
37 TMP Benzene	5.604	5.216	6.9	100	0.00
38 TMP Cyclohexane	1.400	1.420	-1.4	100	0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.580	6.3	100	0.00
41 TMP 1,4-Dioxane	0.233	0.220	5.6	100	0.02
42 TMP 2,2,4-Trimethylpentane	1.831	1.679	8.3	100	0.00
43 TMP Methyl methacrylate	0.534	0.534	0.0	100	0.02

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072522.D  
 Acq On : 26 Jul 2023 2:03 am  
 Operator : bat  
 Sample : 0.5 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:41 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.607	7.5	100	0.00
45 TMP Bromodichloromethane	1.004	0.966	3.8	100	0.00
46 TMP Trichloroethene	0.642	0.599	6.7	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.566	15.6	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.000	100.0#	0#	-15.21#
49 TMP trans-1,3-Dichloropropene	0.606	0.564	6.9	100	0.00
50 TMP Toluene	0.761	0.682	10.4	99	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.542	6.4	100	0.00
52 TMP 2-Hexanone	0.834	0.702	15.8	100	0.00
53 TMP Tetrachloroethene	0.450	0.456	-1.3	106	0.00
54 TMP Dibromochloromethane	0.923	0.901	2.4	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.845	7.2	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.014	5.1	100	0.00
58 TMP Ethylbenzene	1.800	1.722	4.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.459	3.6	100	0.00
60 TMP Nonane	0.879	0.959	-9.1	100	0.00
61 TMP Isopropylbenzene	1.553	1.513	2.6	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.383	4.7	100	0.00
63 TMP Propylbenzene	3.242	3.198	1.4	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.347	9.3	100	0.00
65 TMP m,p-Xylene	0.607	0.576	5.1	100	0.00
66 TMP o-Xylene	0.554	0.548	1.1	100	0.00
67 TMP Styrene	0.767	0.704	8.2	100	0.00
68 TMP Bromoform	0.895	1.023	-14.3	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.734	0.9	100	0.00
70 TMP Benzyl chloride	0.931	0.877	5.8	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.253	5.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.026	11.9	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.906	6.8	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.841	6.6	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.867	7.4	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.557	5.6	100	0.00
77 TMP Naphthalene	1.053	0.816	22.5	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.783	5.8	100	0.00

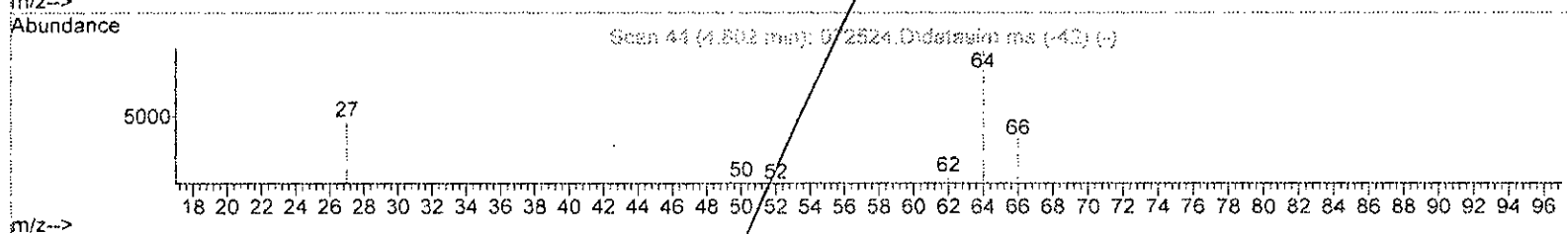
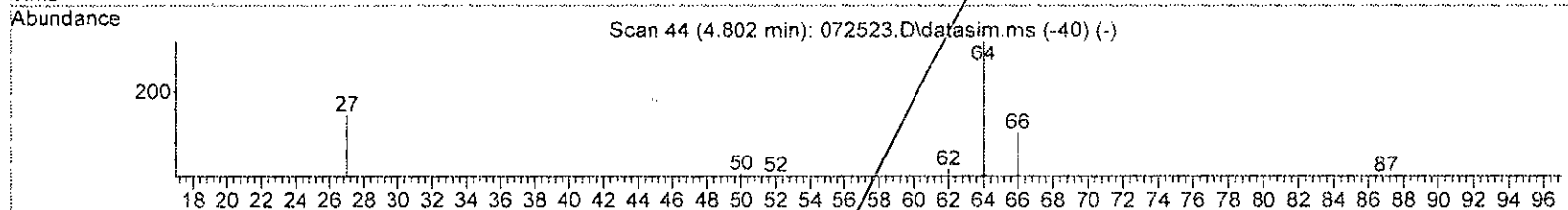
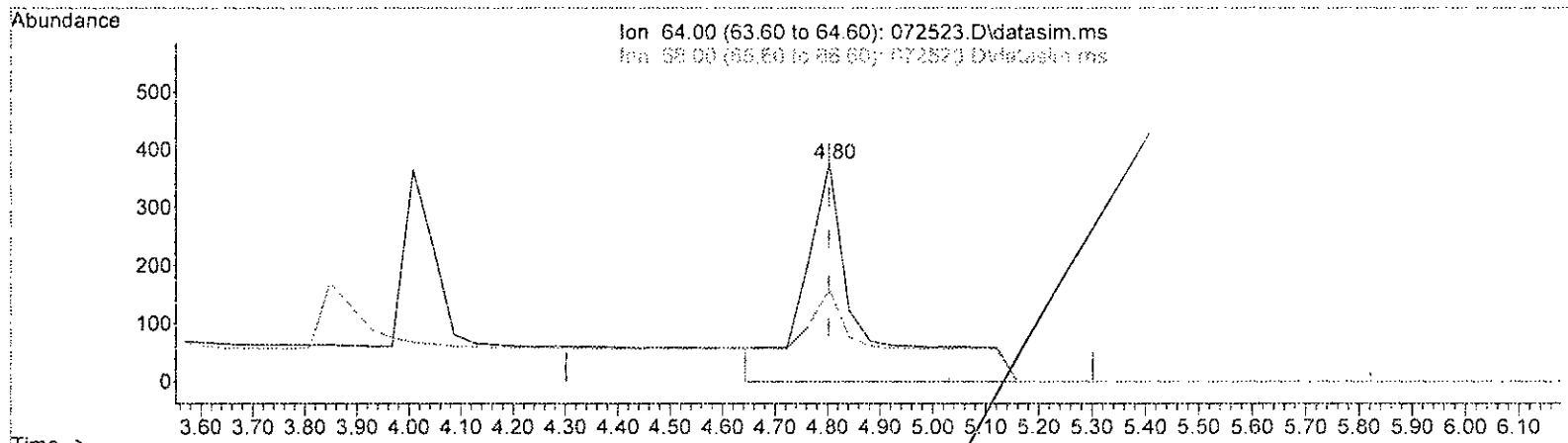
(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

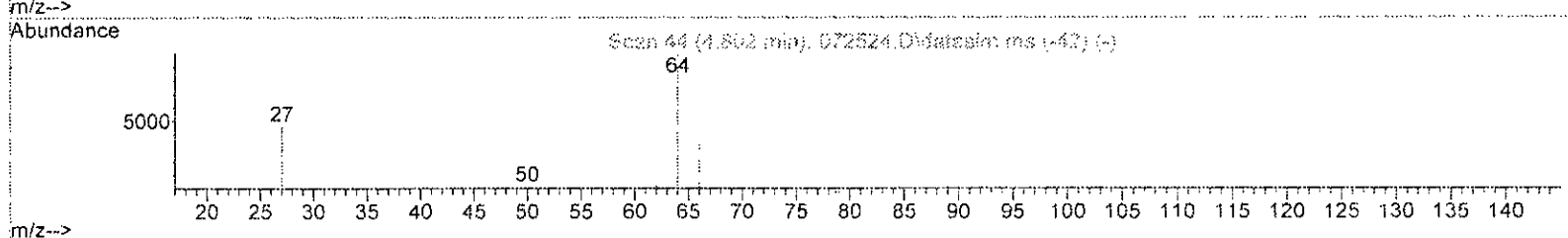
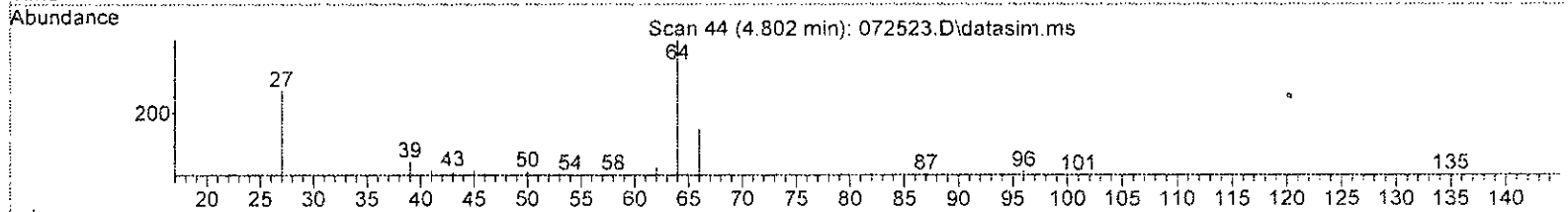
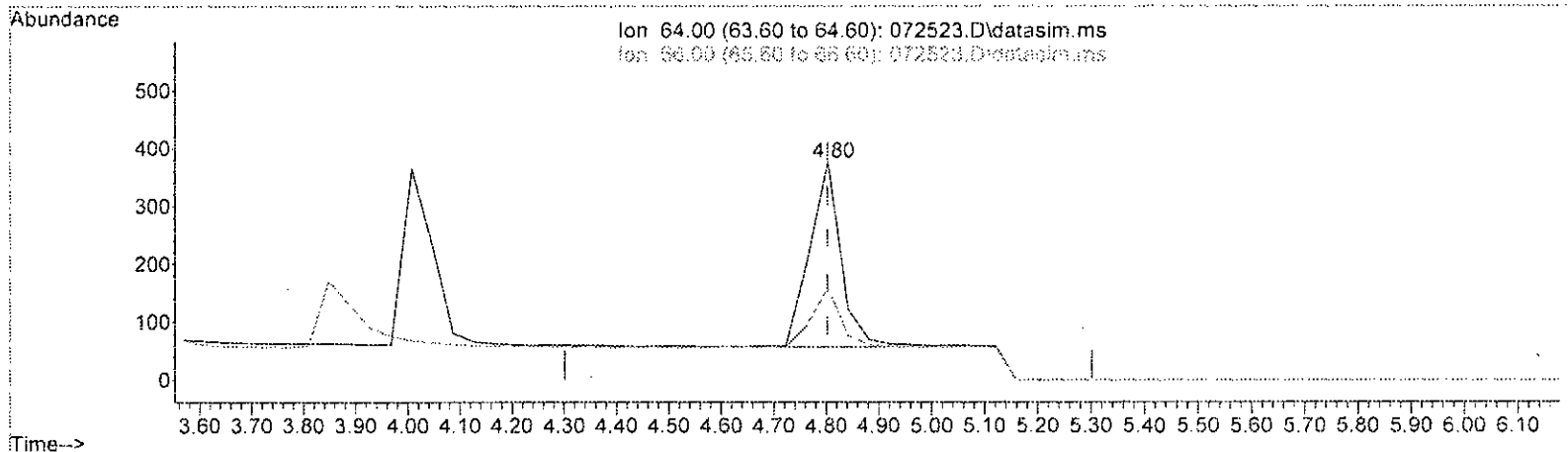
(10) Chloroethane (TMP)		
4.802min (+ 0.000)	2.065 ppbv	
response	2865	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	42.29
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 0.948 ppbv m

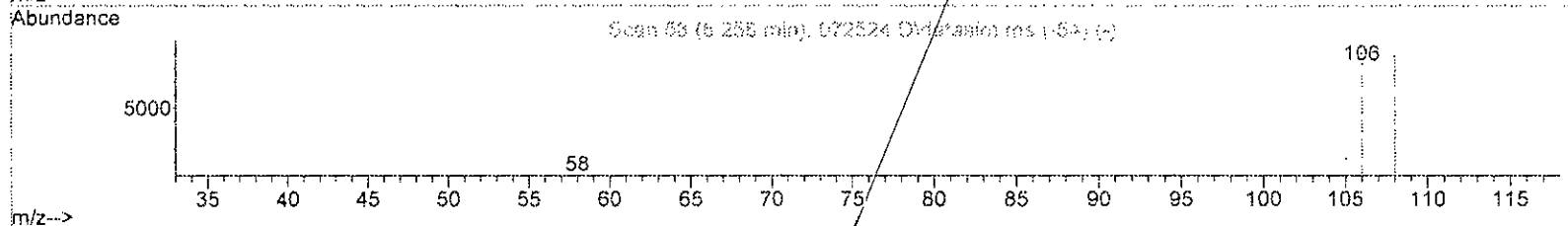
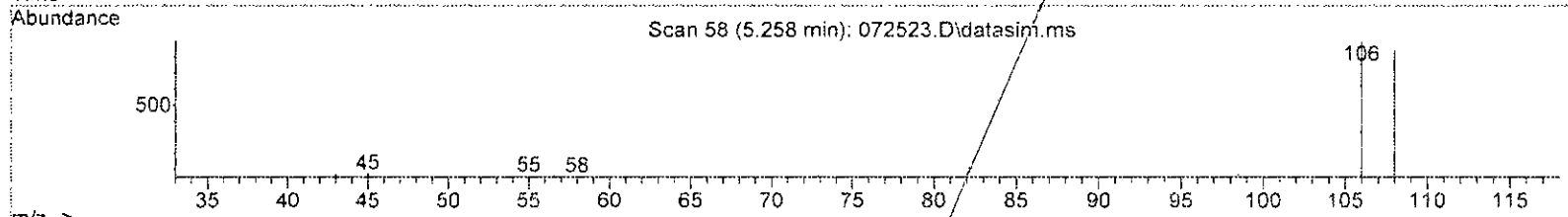
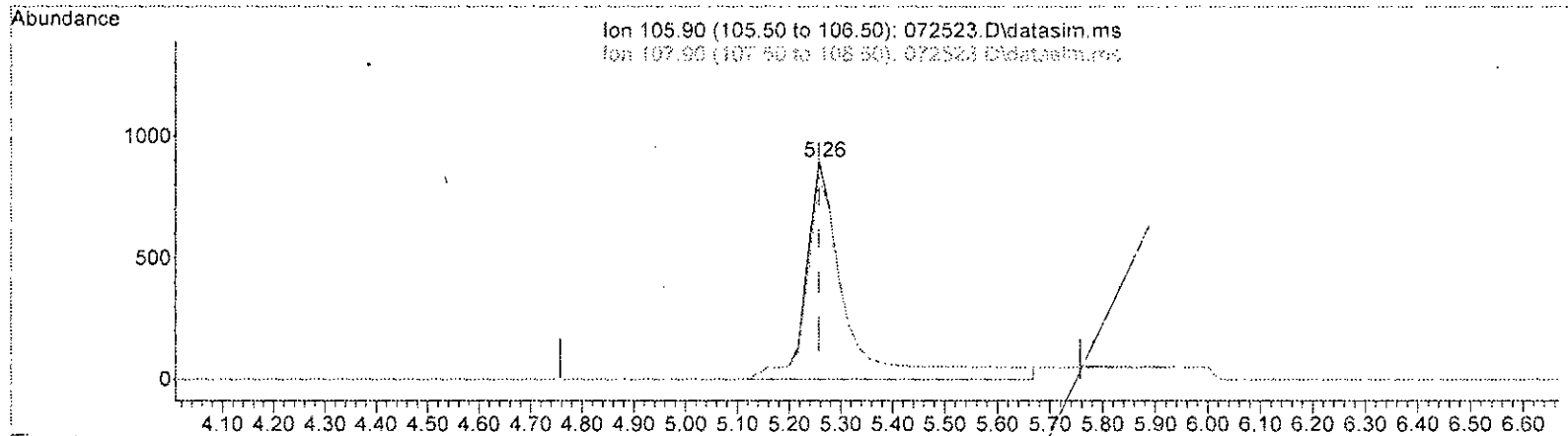
response	1316	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.60	42.29
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 1.497 ppbv

response 5197

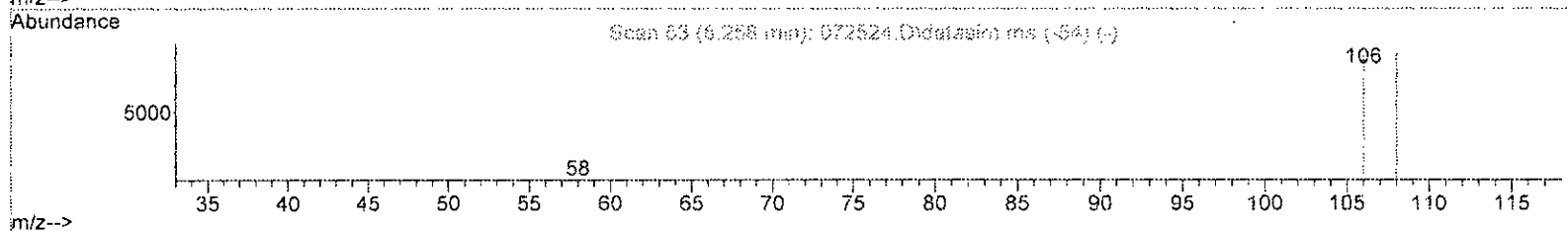
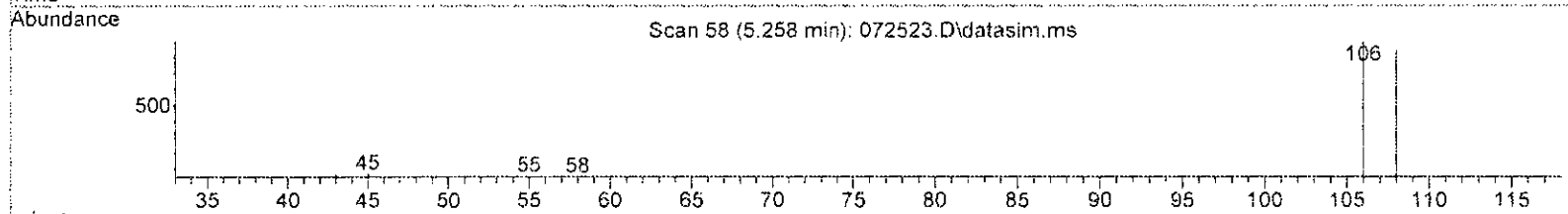
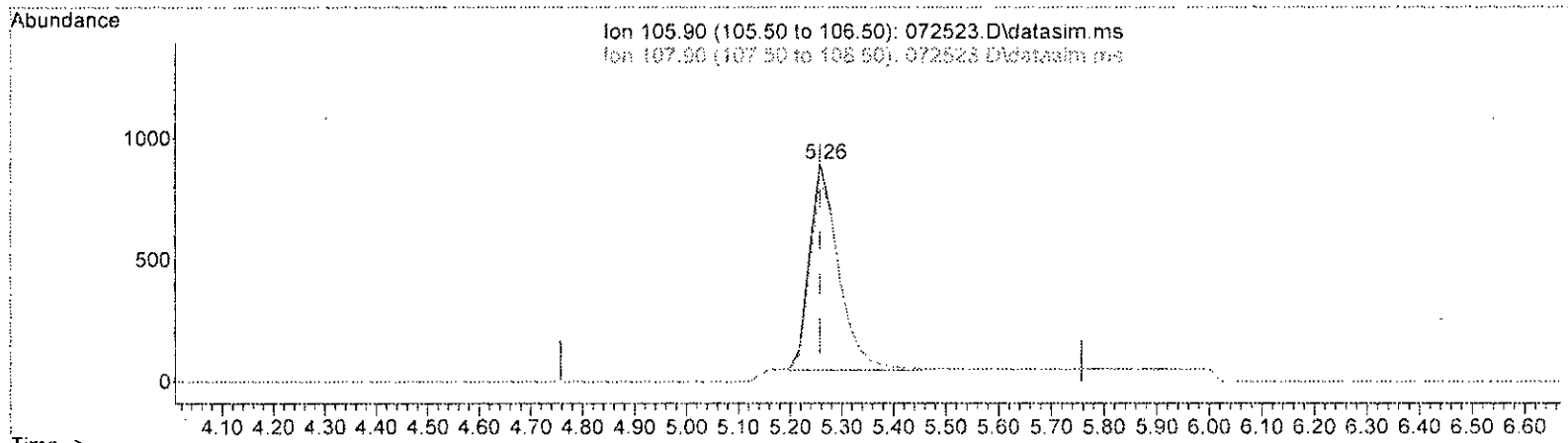
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	95.15
0.00	0.00	0.00
0.00	0.00	0.00

6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(11) Vinyl bromide (TMP)  
 5.258min (-0.000) 0.952 ppbv m

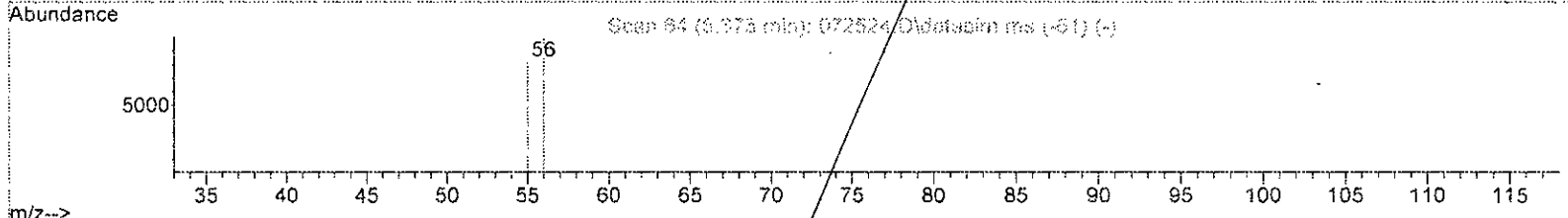
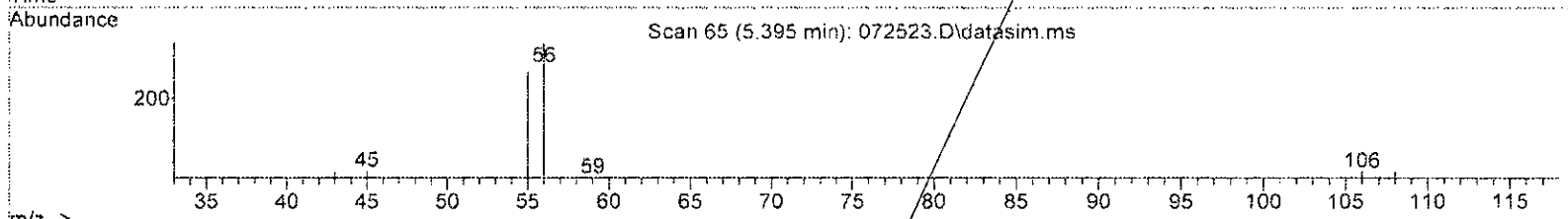
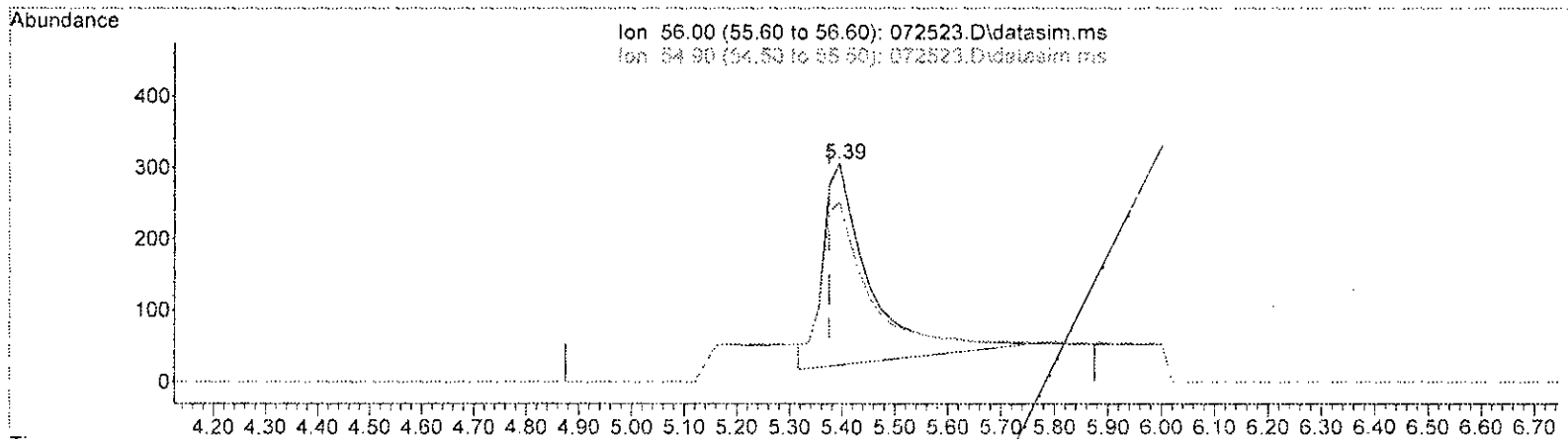
response	3304
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 149.67#
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(13) Acrolein (TMP)		
5.395min (+ 0.020)	1.203 ppbv	
response	1764	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	87.98
0.00	0.00	0.00
0.00	0.00	0.00

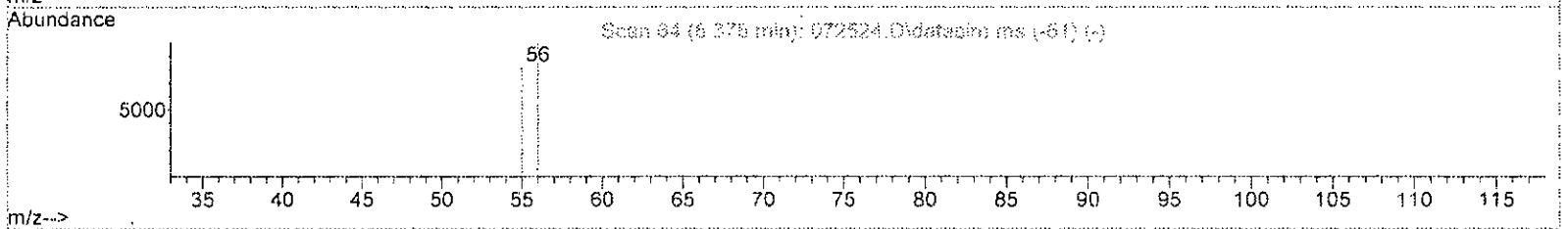
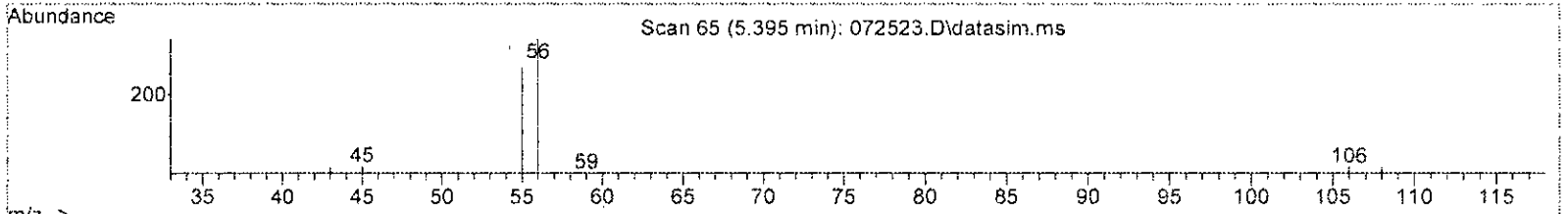
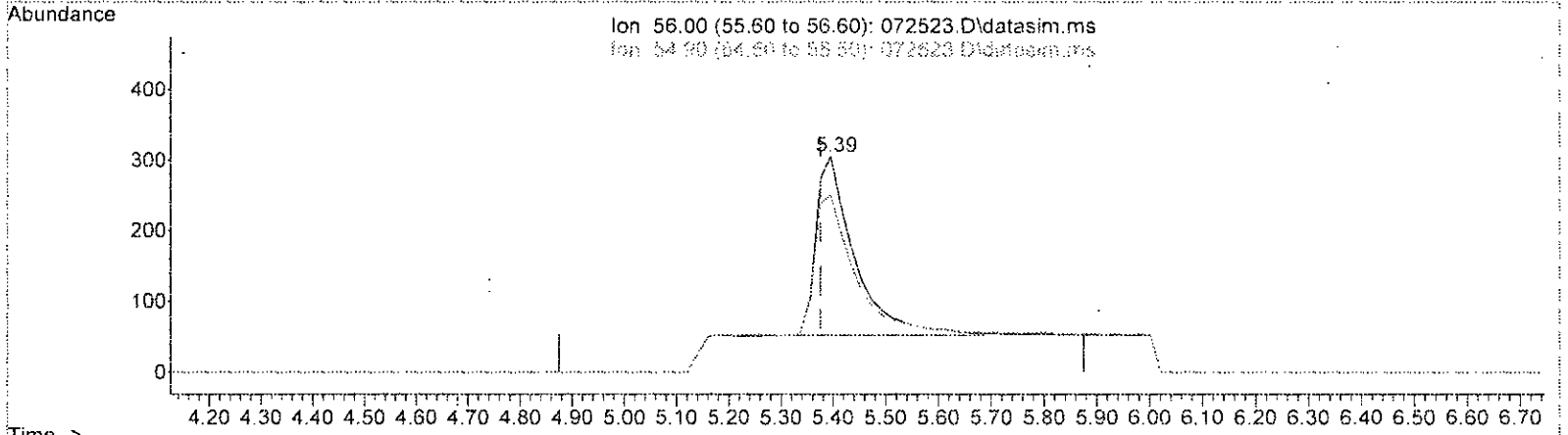
*h  
7/31/23*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(13) Acrolein (TMP)

5.395min (+ 0.020) 0.889 ppbv m

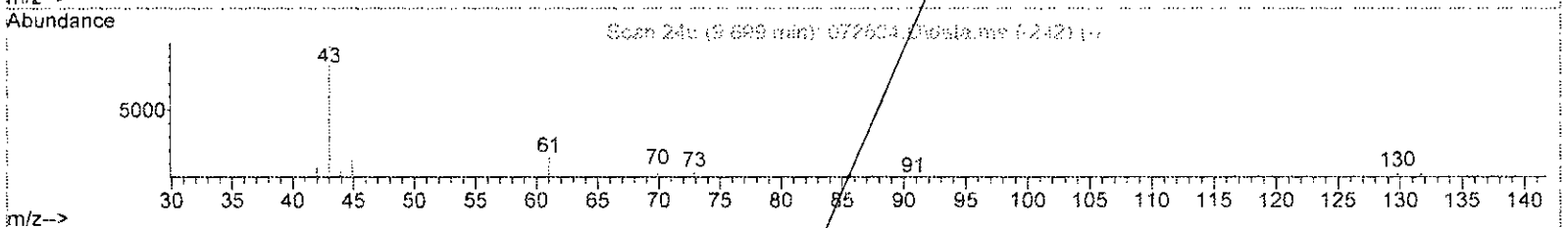
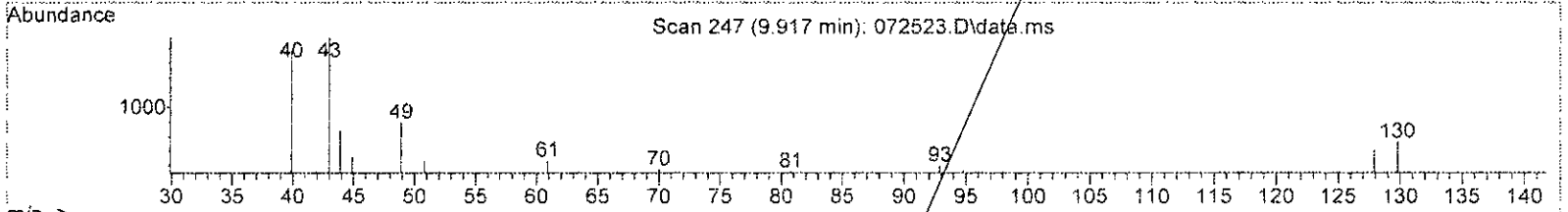
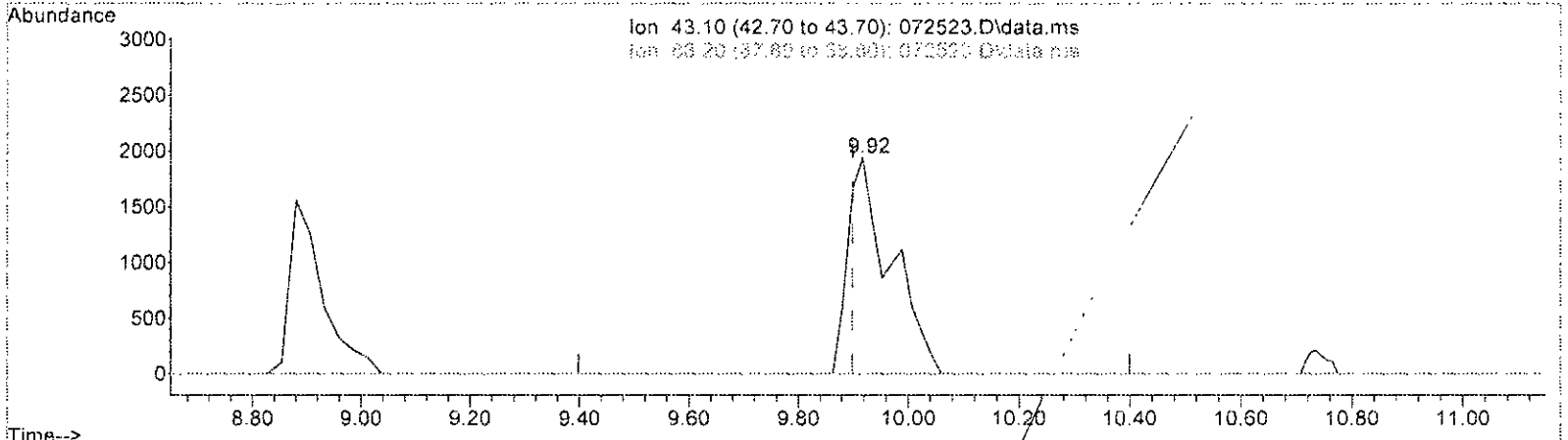
response	1304	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	119.02#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072523.D\data.ms

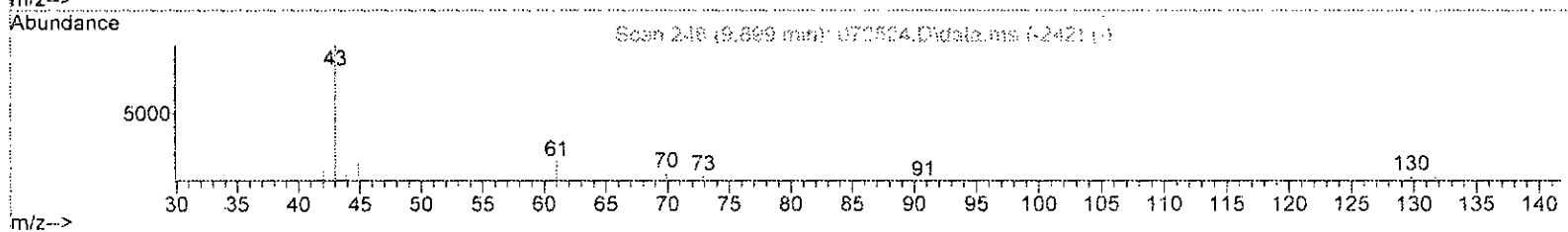
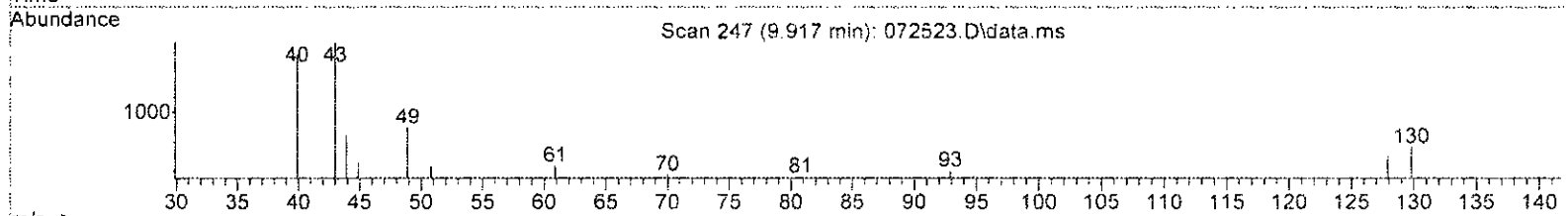
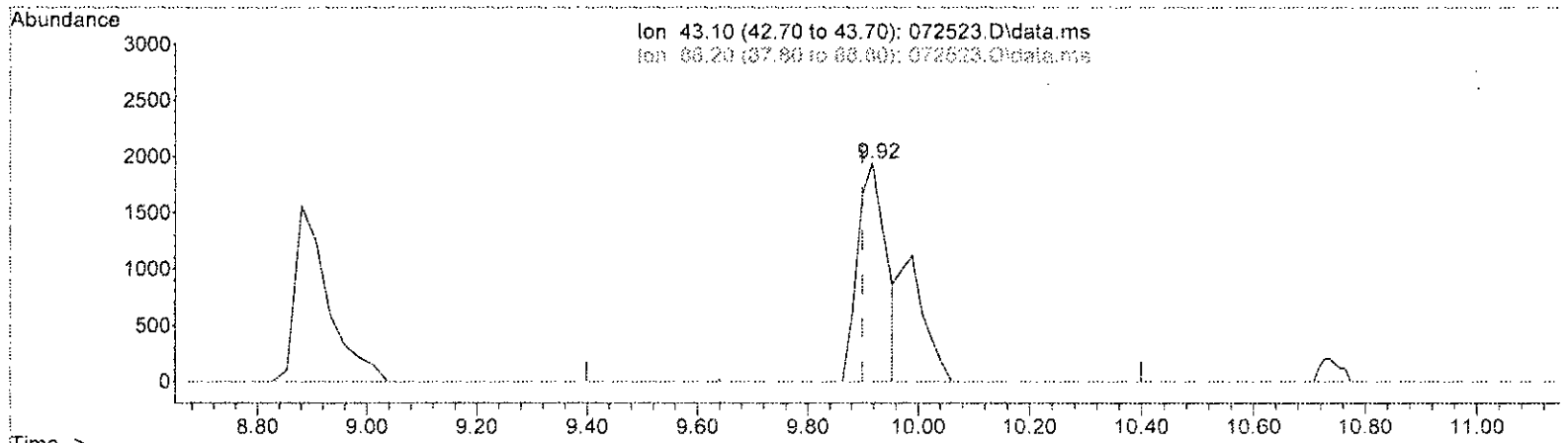
(31) Ethyl acetate (TMP)		
9.917min (+ 0.018)	1.339 ppbv	
response	10398	
Ion	Exp%	Act%
43.10	100.00	100.00
88.20	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

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2/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(31) Ethyl acetate (IMP)

9.917min (+ 0.018) 0.889 ppbv m

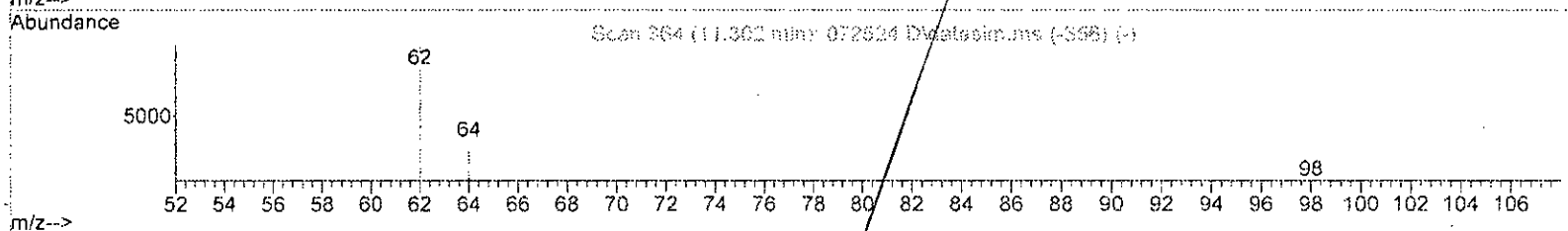
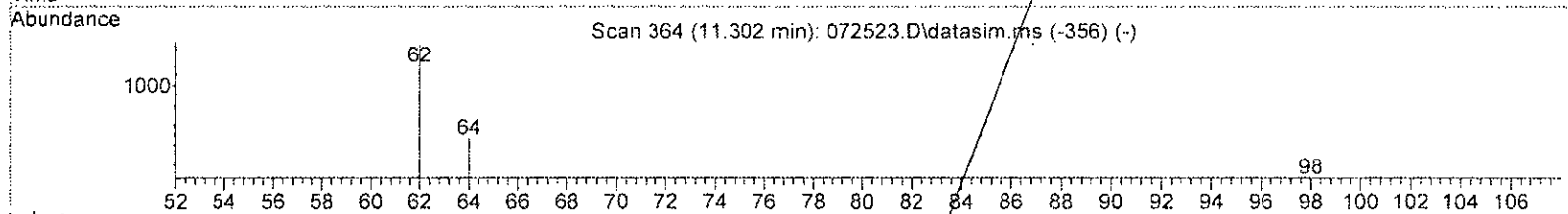
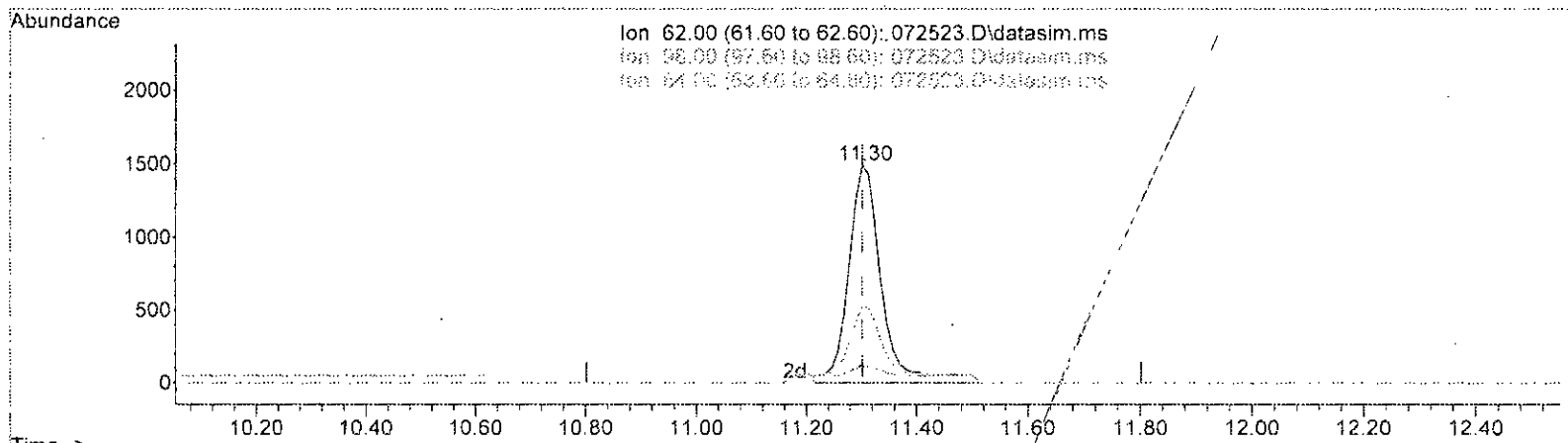
response	6902	
Ion	Exp%	Act%
43.10	100.00	100.00
88.20	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

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 7/27/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (-0.000) 1.084 ppbv

response 6186

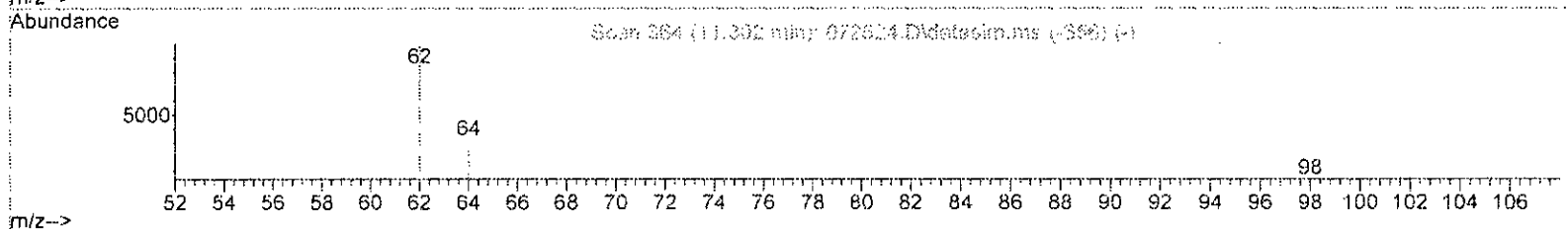
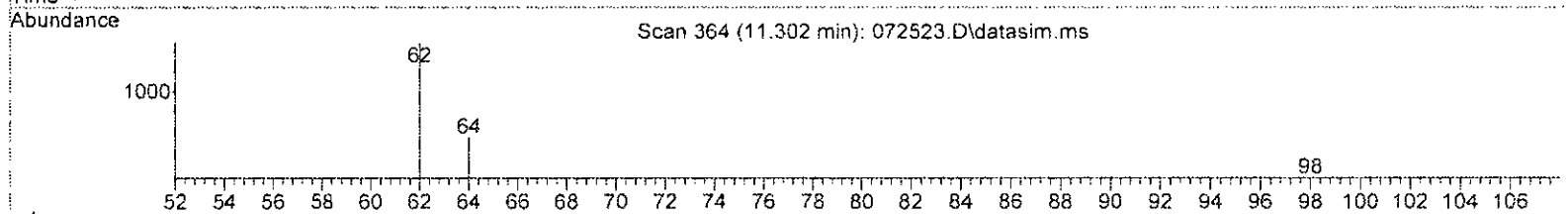
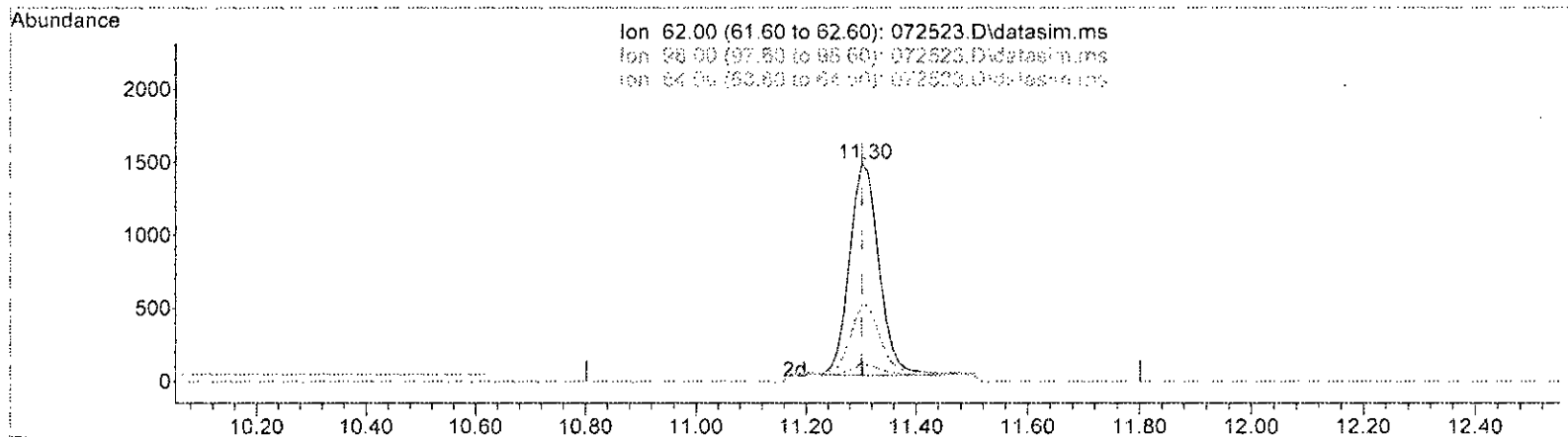
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	7.38
64.00	33.00	34.88
0.00	0.00	0.00

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 7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(34) 1,2-Dichloroethane (EDC) (IMP)

11.302min (-0.000) 0.945 ppbv m

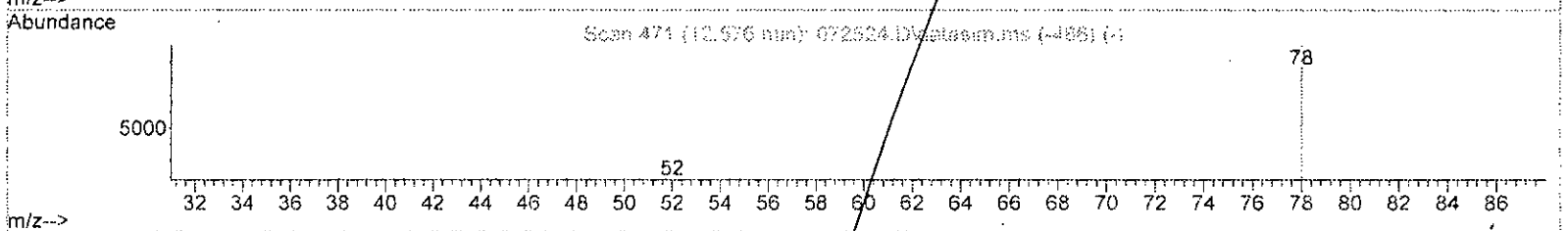
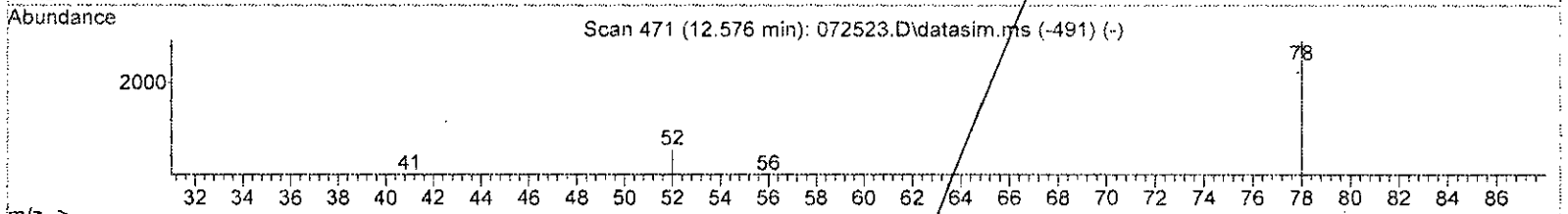
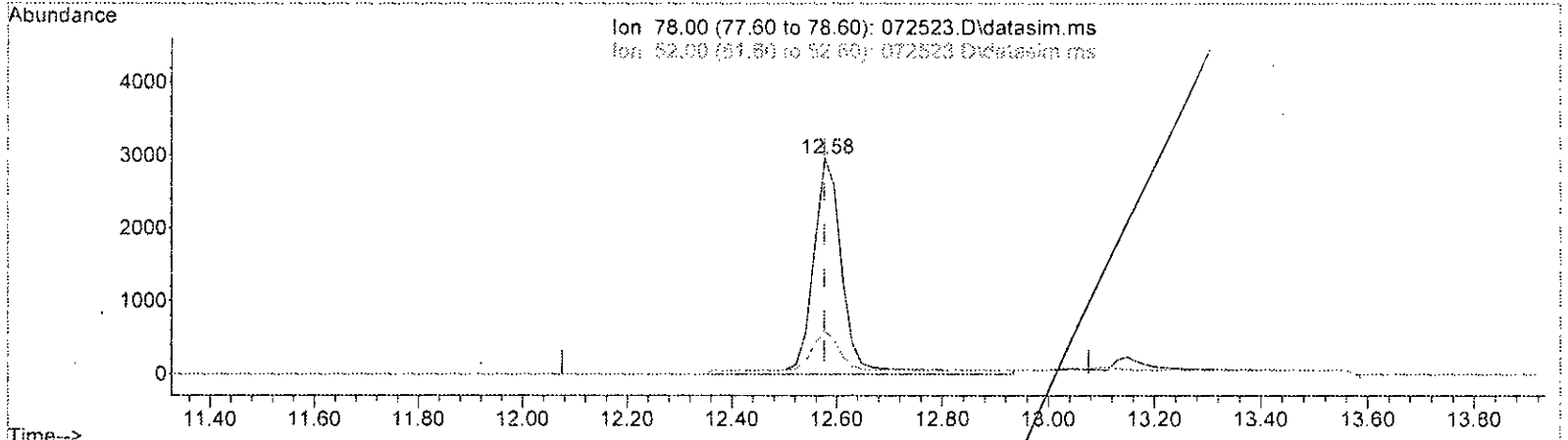
response	5394	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	7.38
64.00	33.00	34.88
0.00	0.00	0.00

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7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

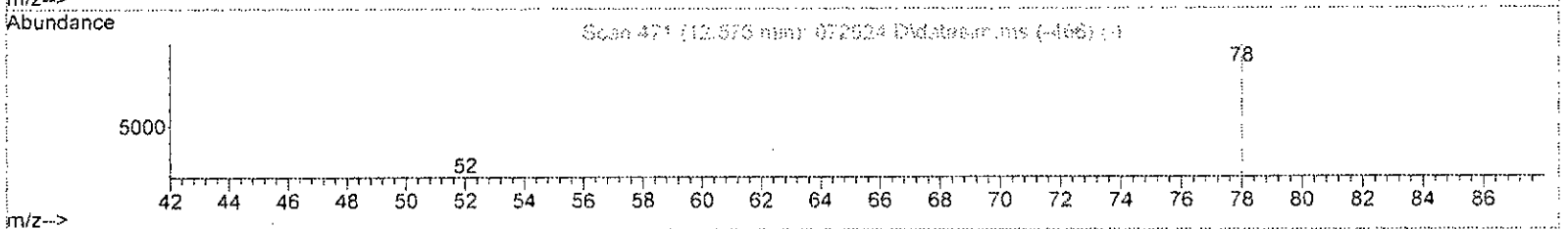
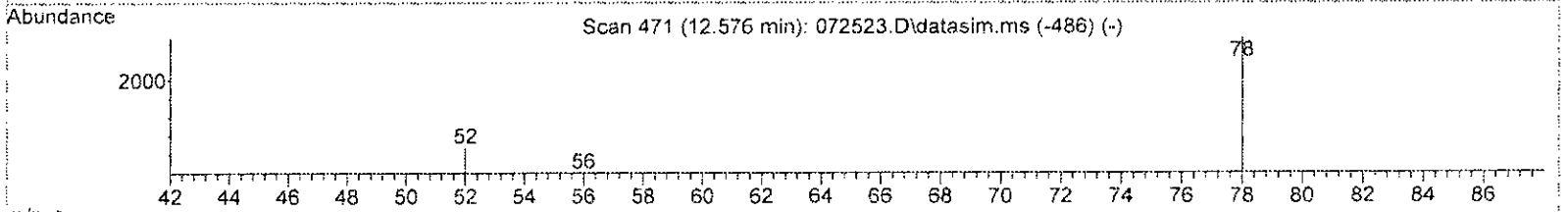
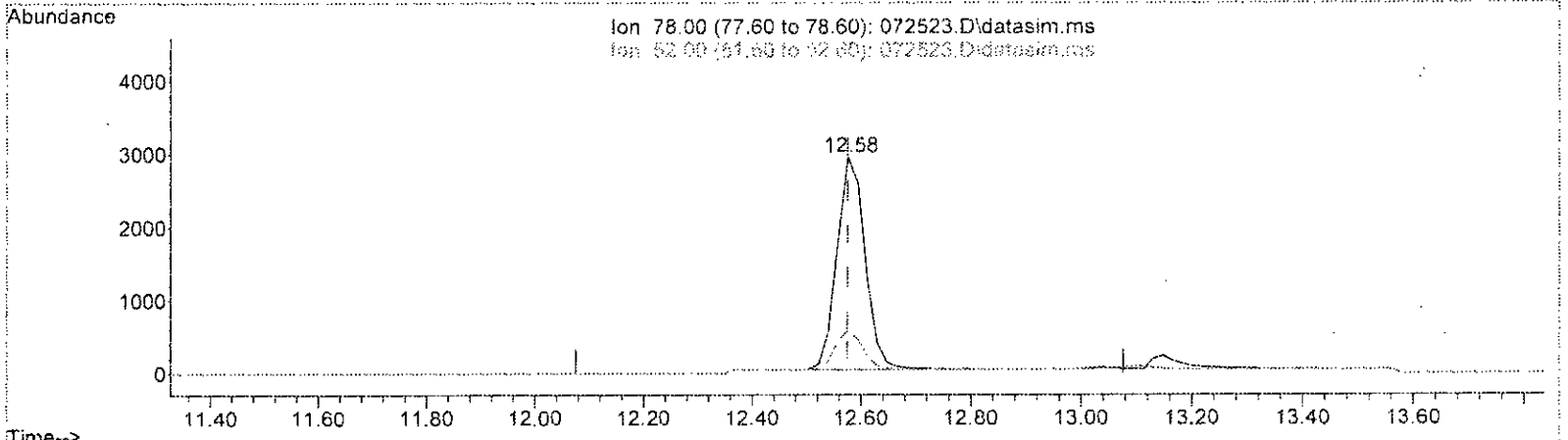
(37) Benzene (TMP)		
12.576min (+ 0.000)	1.059 ppbv	
response	11944	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	20.24
0.00	0.00	0.00
0.00	0.00	0.00

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7/21/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(37) Benzene (TMP)

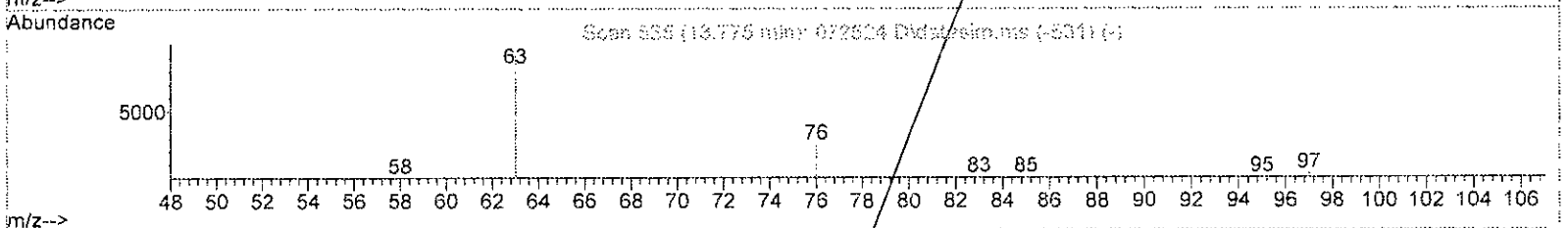
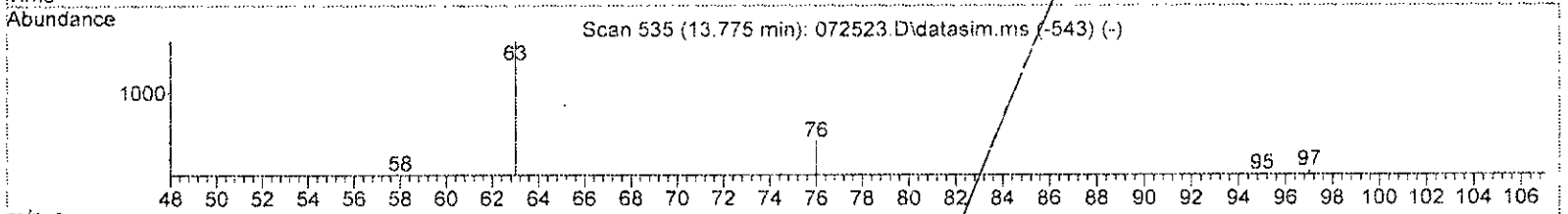
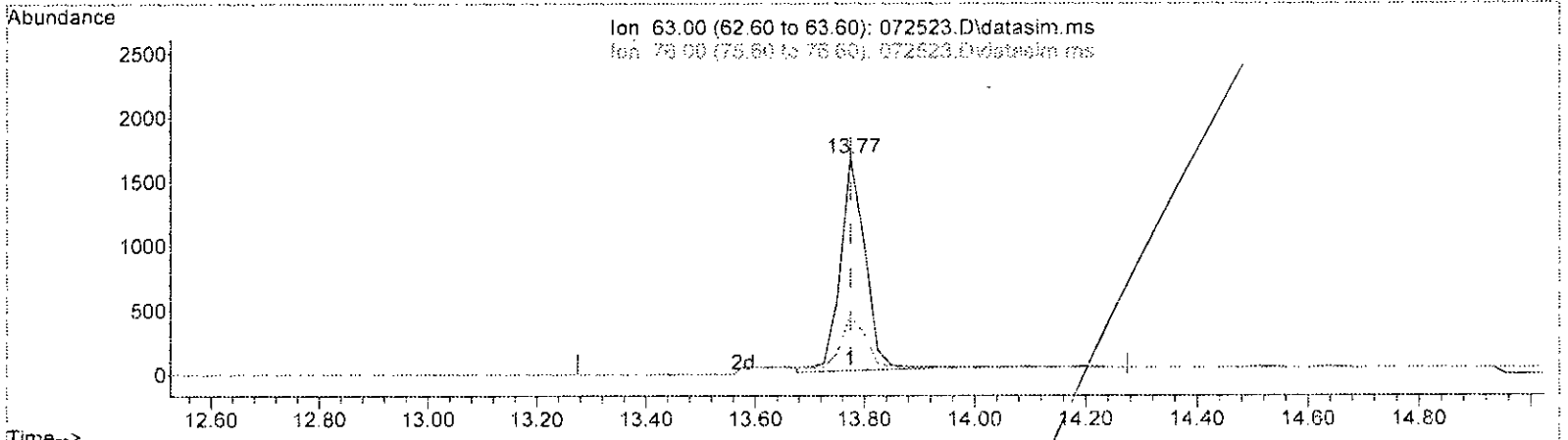
12.576min (+ 0.000)	0.922 ppbv m	
response	10404	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	20.24
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.960 ppbv

response 5222

Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	24.74
0.00	0.00	0.00
0.00	0.00	0.00

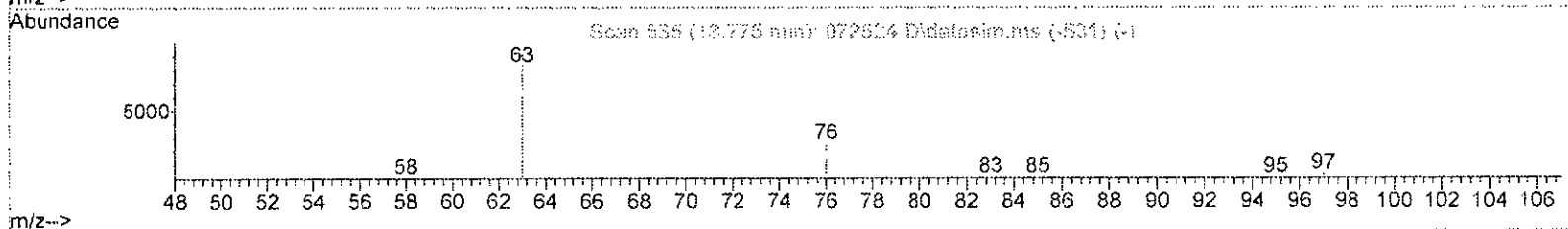
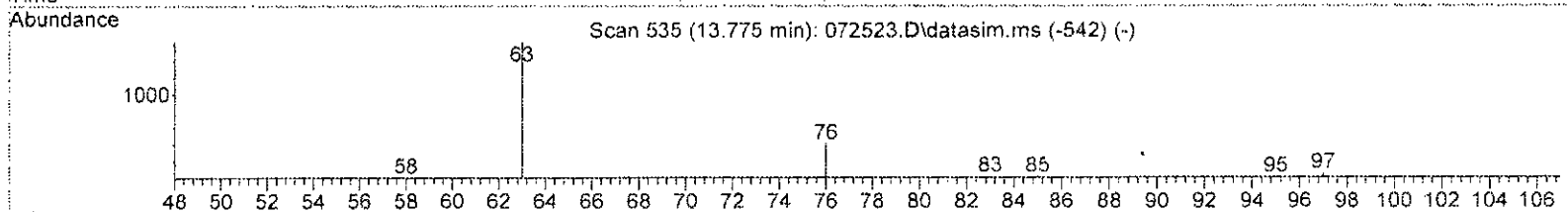
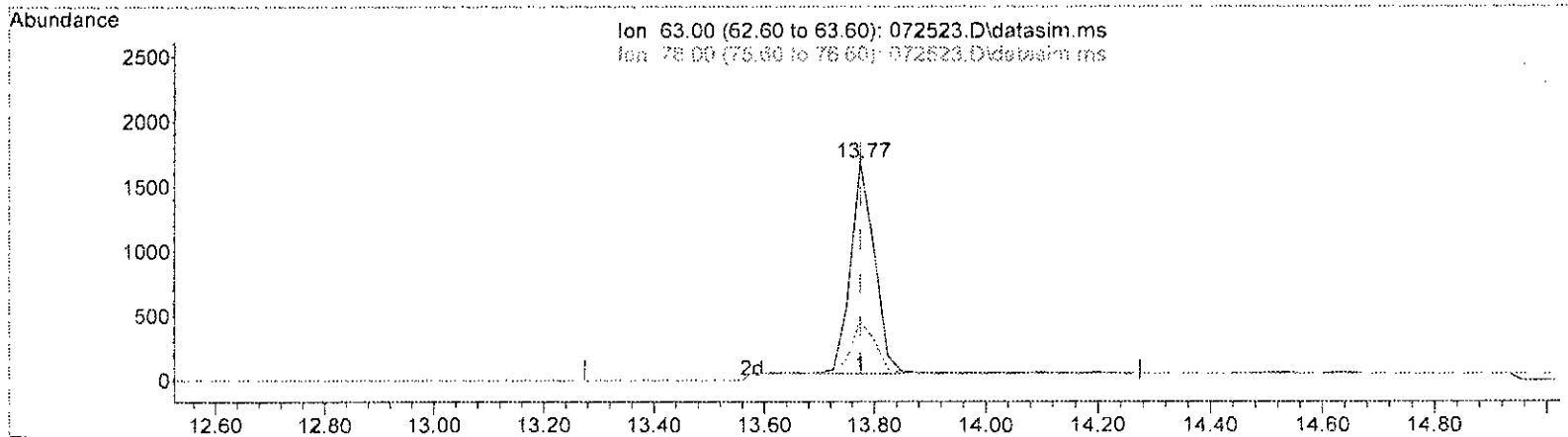
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.775min (-0.000) 0.914 ppbv m

response 4967

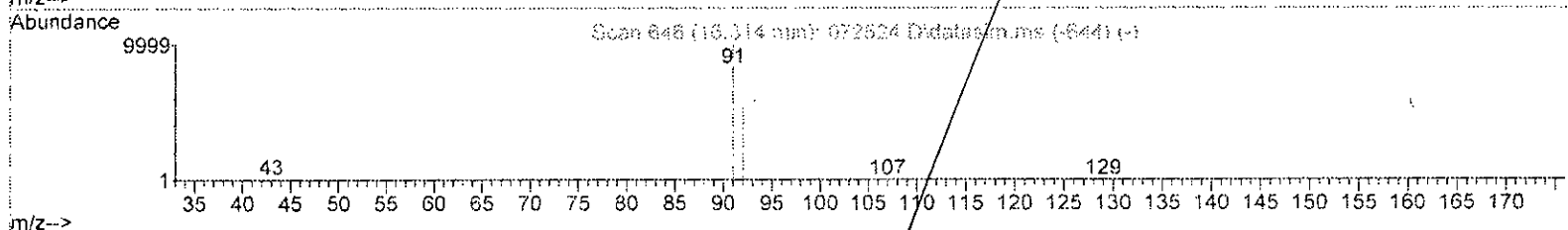
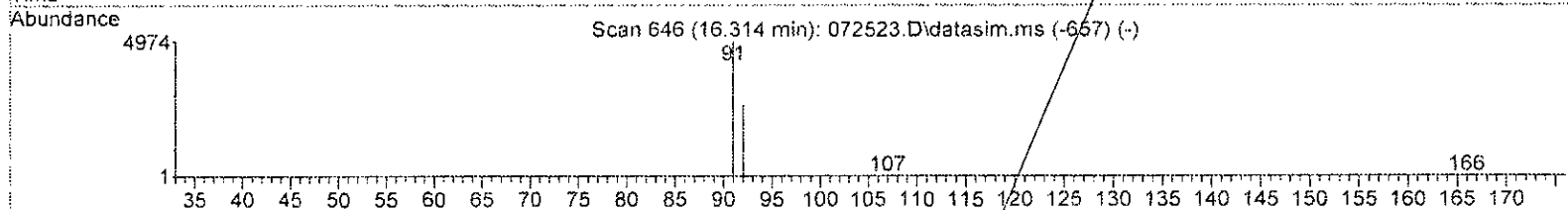
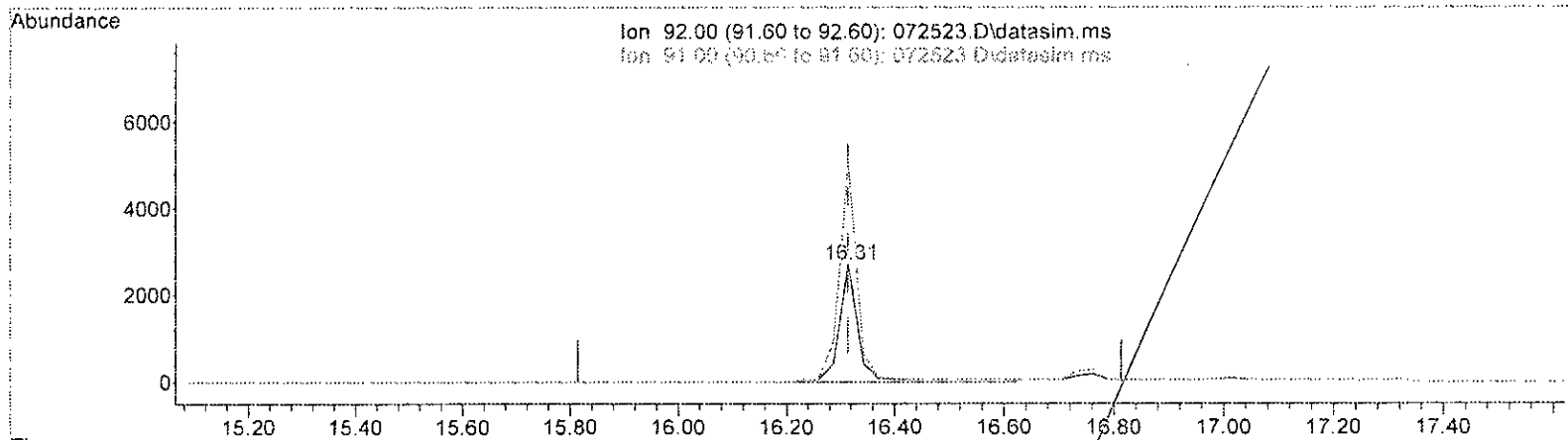
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	26.98
0.00	0.00	0.00
0.00	0.00	0.00

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 7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

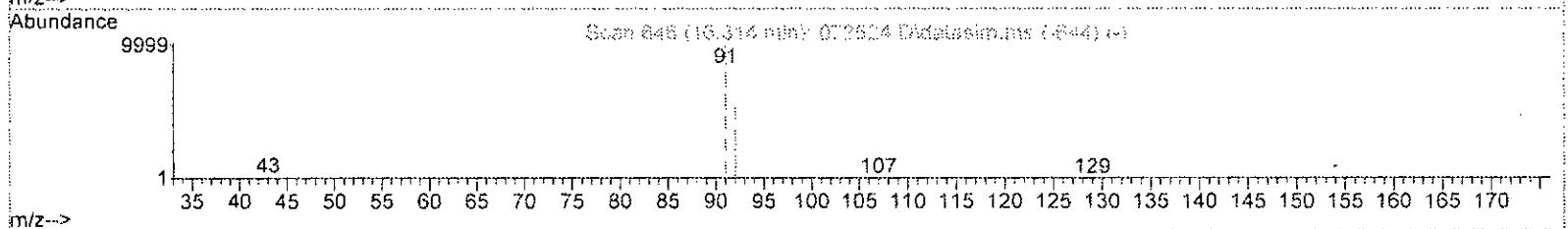
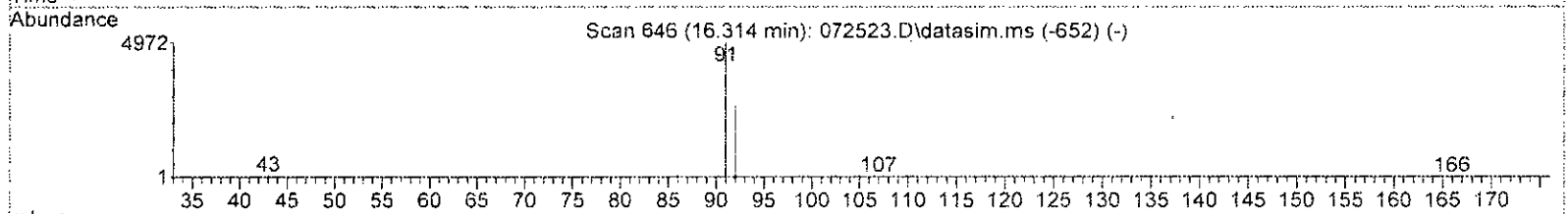
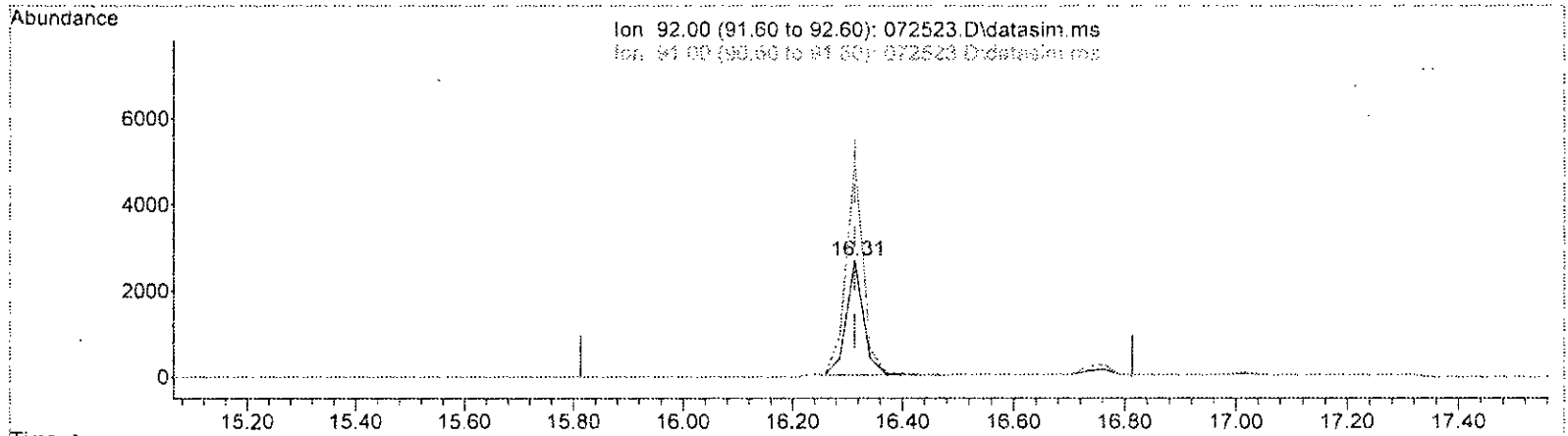
(50) Toluene (TMP)		
16.314min (+ 0.000)	1.034 ppbv	
response	6906	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	186.44
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

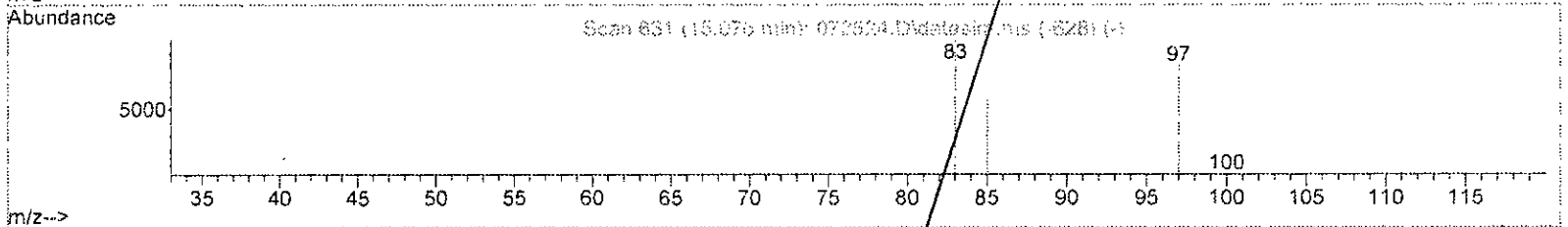
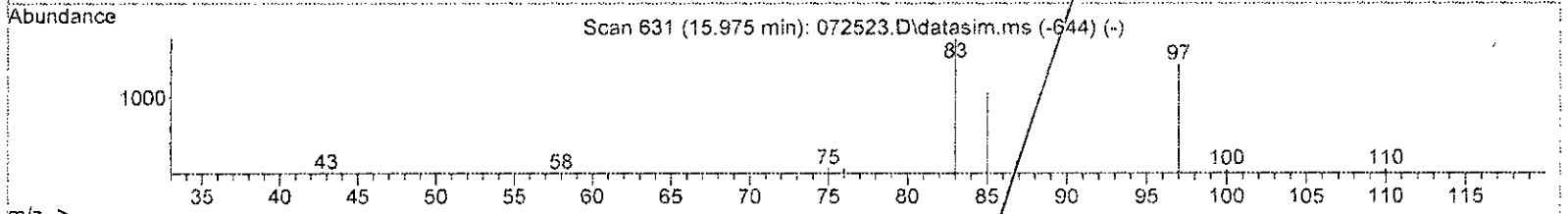
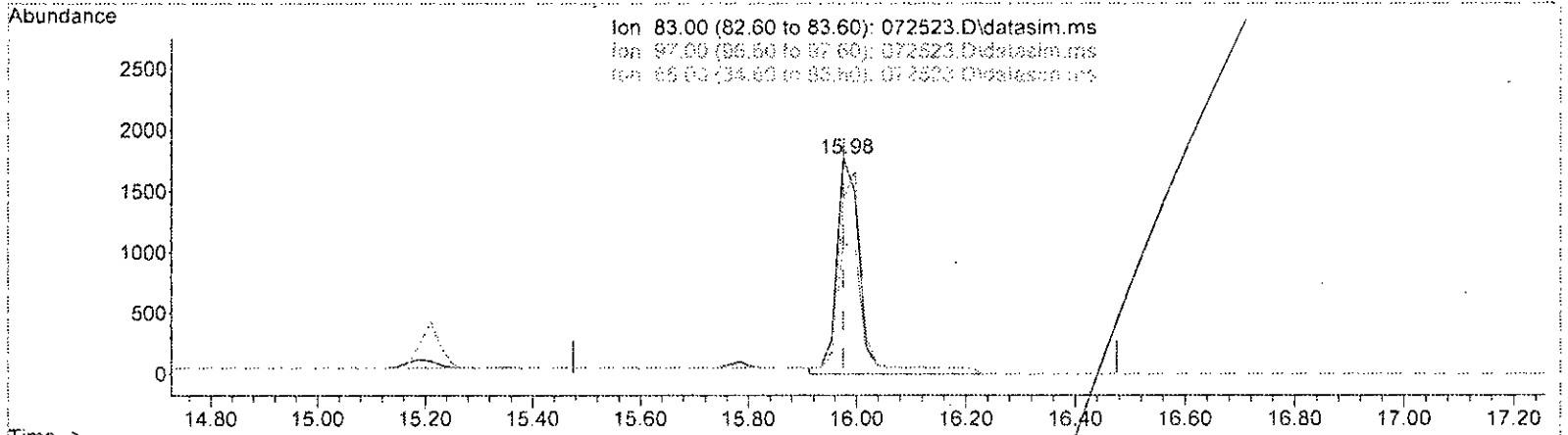
(50) Toluene (TMP)		
16.314min (+ 0.000)	0.881 ppbv m	
response	5884	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	186.44
0.00	0.00	0.00
0.00	0.00	0.00

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*7/21/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.975min (-0.001) 1.101 ppbv

response 5602

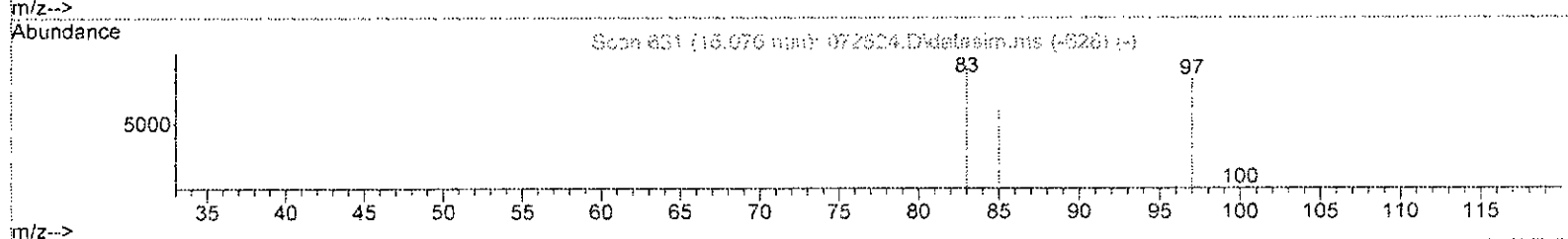
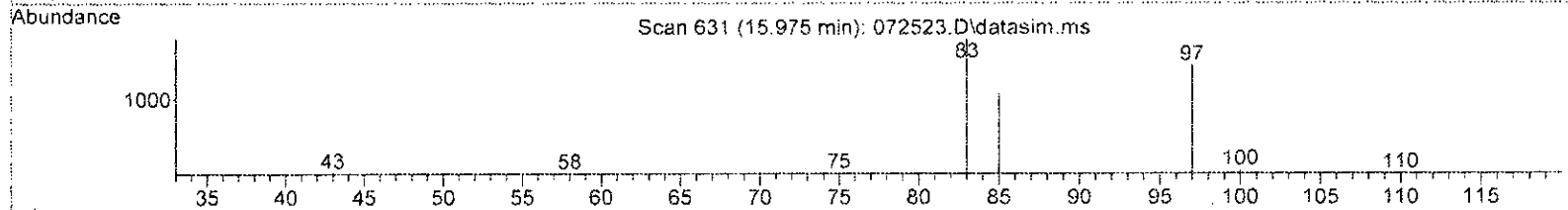
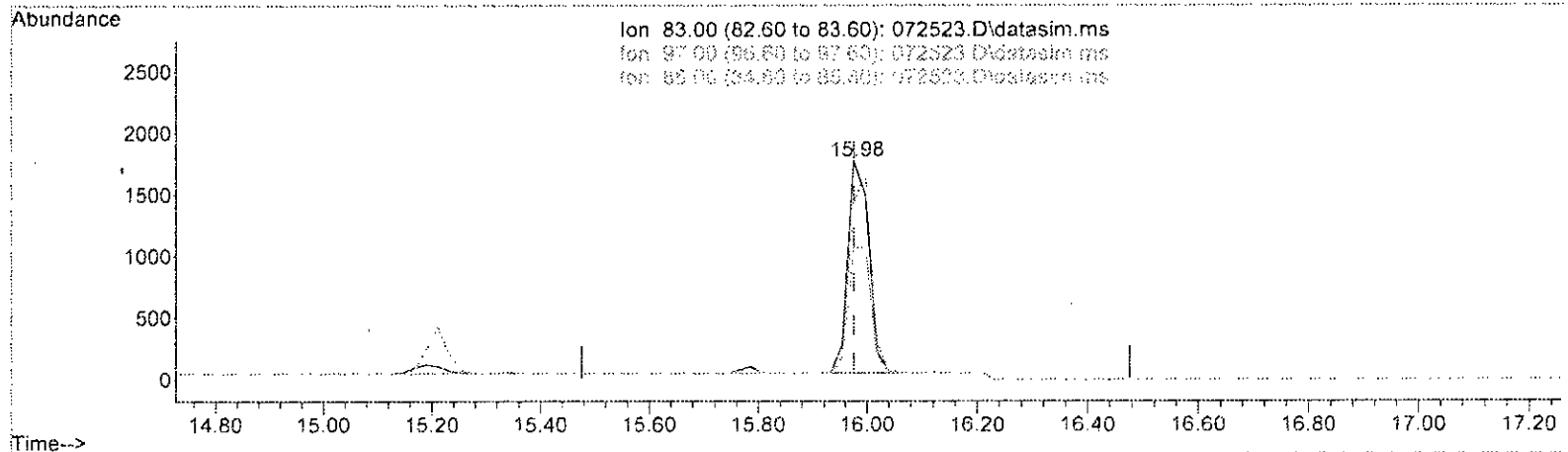
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.60	80.84
85.00	60.50	60.03
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(51) 1,1,2-Trichloroethane (TME)

15.975min (-0.001) 0.897 ppbv m

response 4563

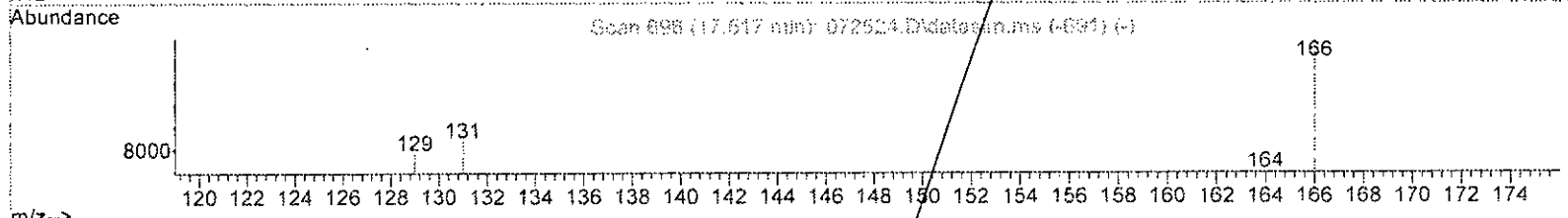
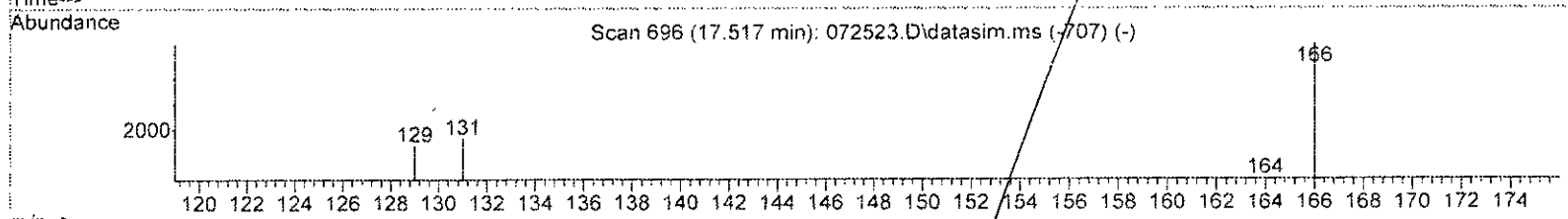
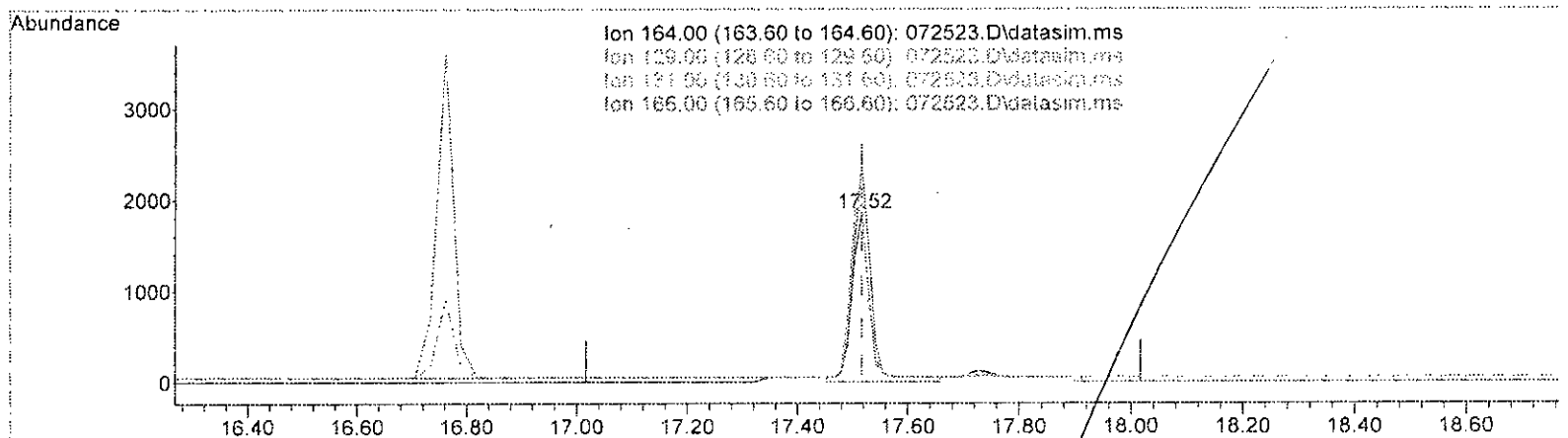
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	80.84
85.00	60.50	60.03
0.00	0.00	0.00

*6/27/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(53) Tetrachloroethene (TMP)  
 17.517min (-0.000) 1.079 ppbv  
 response 4269

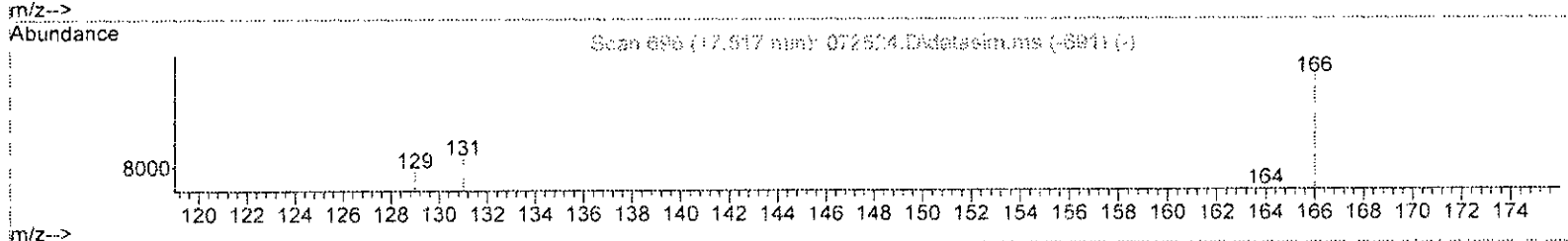
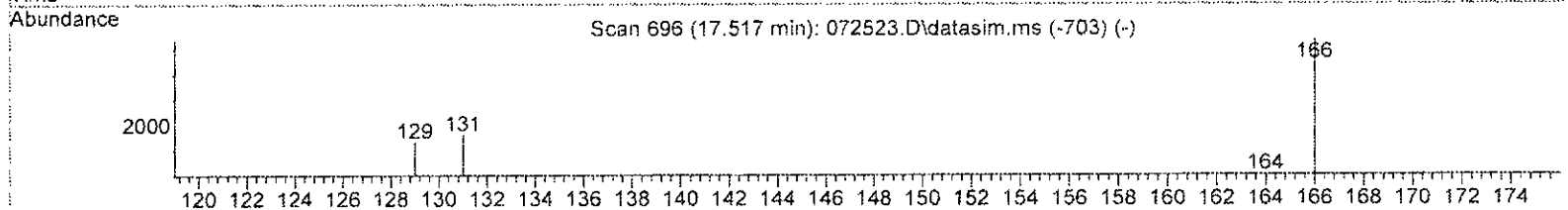
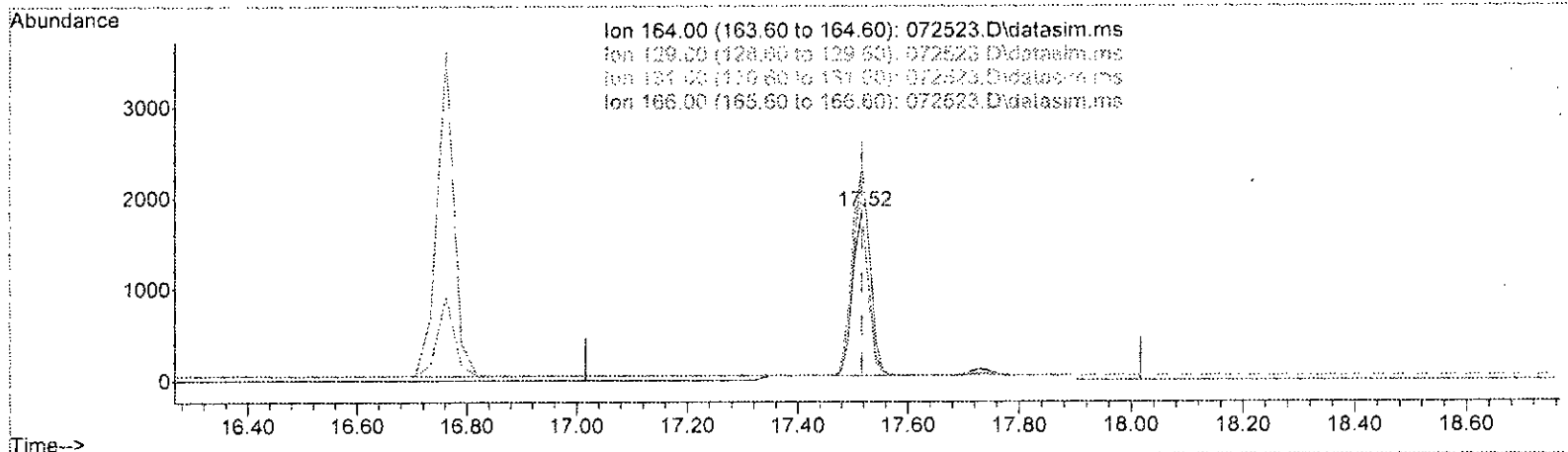
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	107.27
131.00	100.70	108.87
166.00	137.50	129.67

6/21/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072523.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (-0.000) 0.931 ppbv m

response 3684

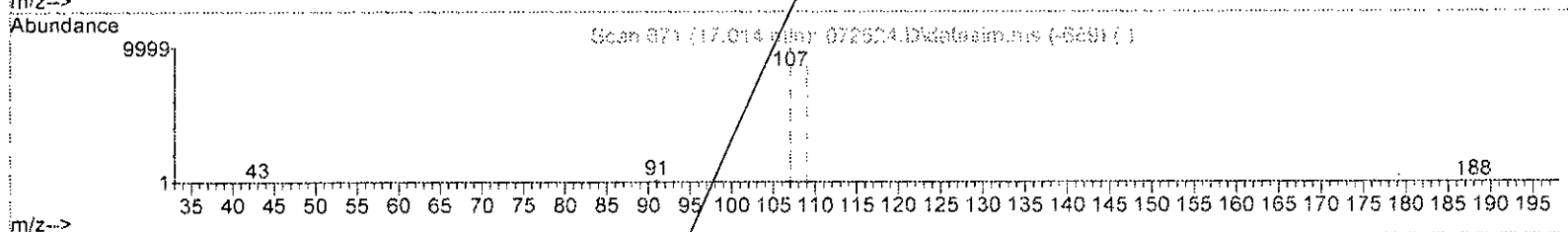
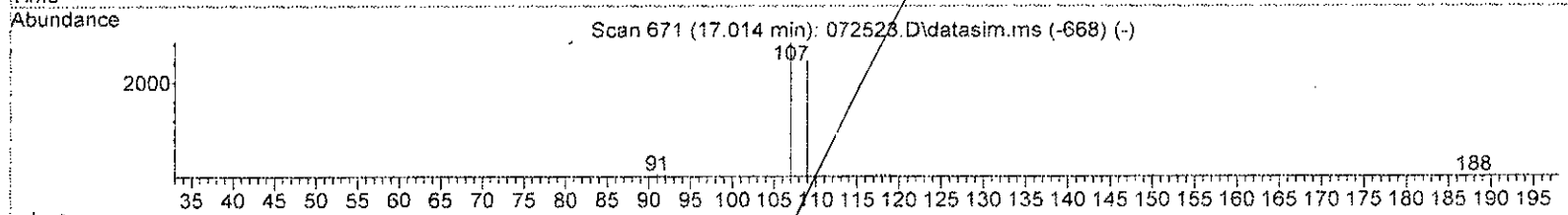
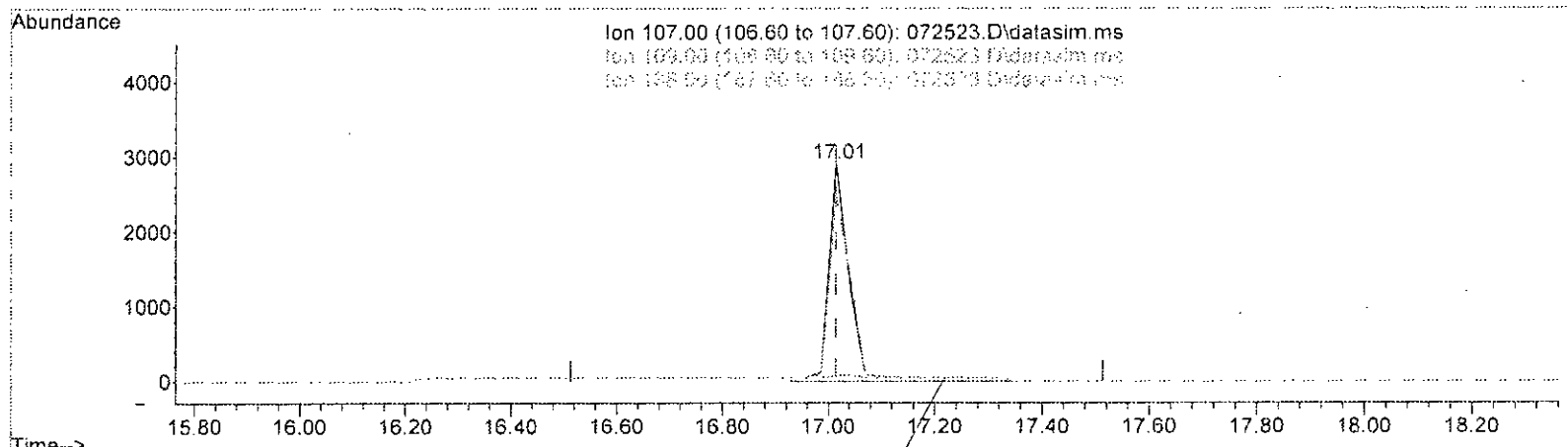
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	107.07
131.00	100.70	108.63
166.00	137.50	128.82

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072523.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (-0.000)	0.995 ppbv	
response	7969	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	85.64
188.00	2.70	2.34
0.00	0.00	0.00

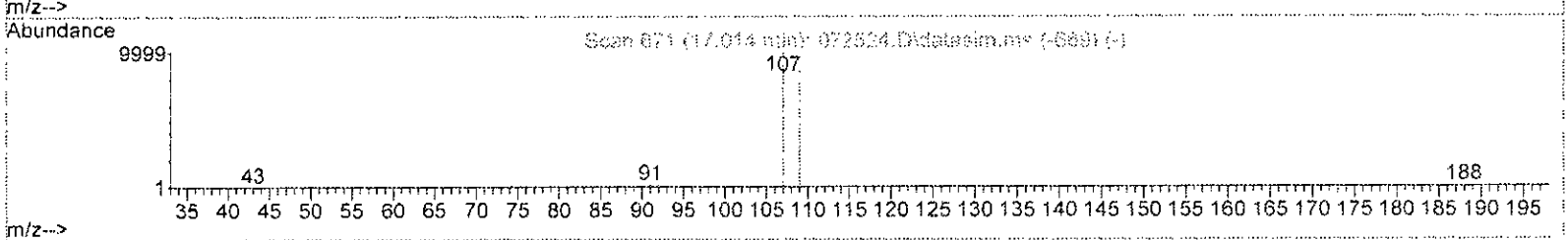
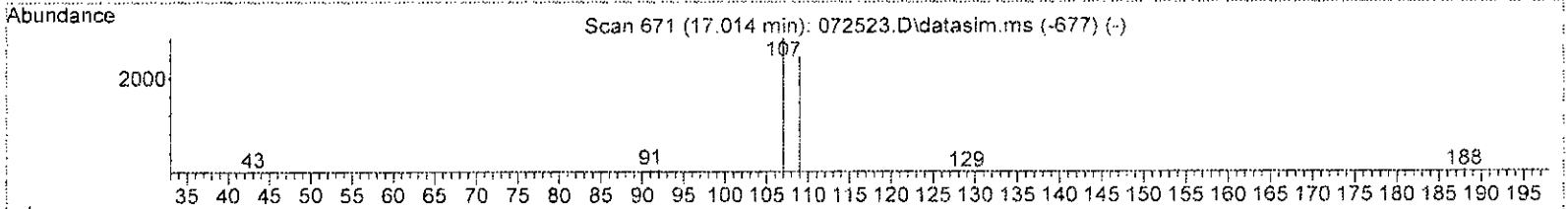
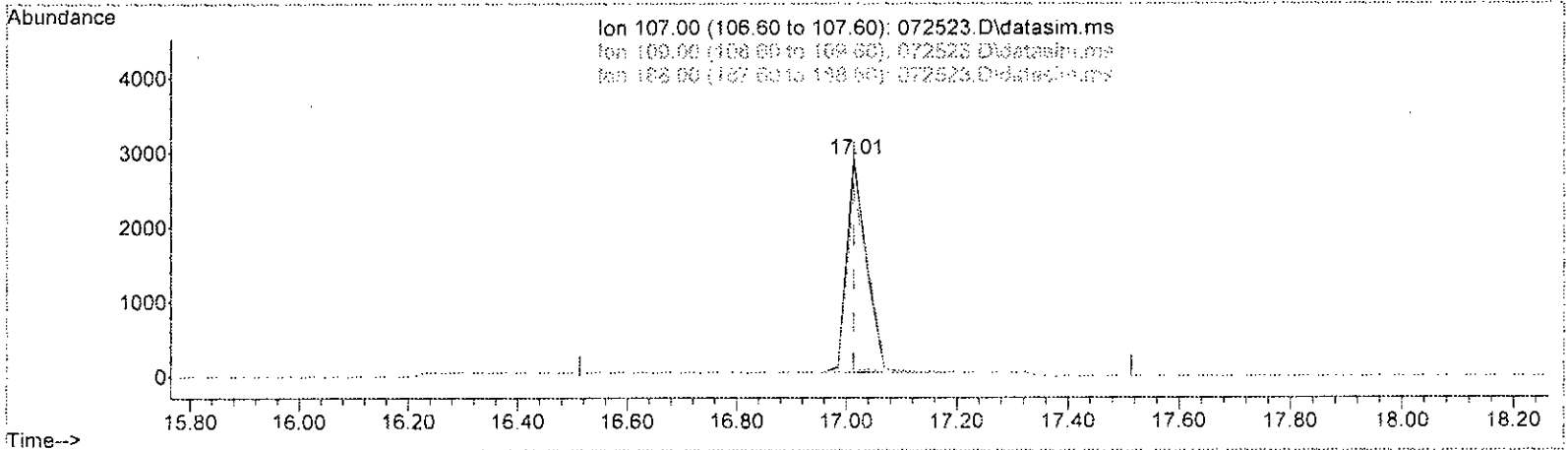
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072523.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (-0.000) 0.885 ppbv m

response 7085

Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	85.64
188.00	2.70	2.34
0.00	0.00	0.00

*Handwritten signature:* b / 31 / 24

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
<b>Internal Standards</b>							
1) Bromochloromethane	9.86	128	20125	10.000	ppbv	0.00	
39) 1,4-Difluorobenzene	13.11	114	87857	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	73097	10.000	ppbv	0.00	
<b>System Monitoring Compounds</b>							
69) 4-Bromofluorobenzene	19.58	95	52173	9.632	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.30%		
<b>Target Compounds</b>							
2) Propene	3.41	41	2477	1.008	ppbv	100	
3) Dichlorodifluoromethane	3.49	85	9173	0.927	ppbv	100	
4) Chloromethane	3.69	50	3587	1.040	ppbv	94	
5) F-114	3.88	85	9168	1.062	ppbv	87	
6) Vinyl chloride	4.01	62	3772	0.968	ppbv	97	
7) 1,3-Butadiene	4.21	54	2348	0.939	ppbv #	87	
8) Butane	4.28	43	4492	0.899	ppbv #	80	
9) Bromomethane	4.56	94	3109	0.903	ppbv	100	
10) Chloroethane	4.80	64	1316m	0.948	ppbv		
11) Vinyl bromide	5.26	106	3304m	0.952	ppbv		
12) Ethanol	0.00		0	N.D.	d		
13) Acrolein	5.39	56	1304m	0.889	ppbv		
14) Pentane	6.25	43	5336	0.934	ppbv	93	
15) Trichlorofluoromethane	5.80	101	7924	0.821	ppbv	95	
16) Acetone	5.55	58	1034	0.766	ppbv #	86	
17) 2-Propanol	5.80	45	4783	0.811	ppbv	89	
18) 1,1-Dichloroethene	6.63	96	3126	0.947	ppbv	87	
19) trans-1,2-Dichloroethene	8.07	96	3155	0.965	ppbv #	78	
20) Methylene chloride	6.75	84	3121	0.967	ppbv	94	
21) t-Butyl alcohol (TBA)	6.57	59	4487	0.877	ppbv #	51	
22) 3-Chloropropene	6.94	41	3893	0.932	ppbv	92	
23) CFC-113	7.15	101	6835	0.964	ppbv	94	
24) Carbon disulfide	7.25	76	10418	0.972	ppbv	96	
25) Methyl t-butyl ether (...)	8.41	73	6190	0.887	ppbv	90	
26) Vinyl acetate	8.51	43	6952	0.894	ppbv	87	
27) 1,1-Dichloroethane	8.33	63	6905	0.954	ppbv	97	
28) cis-1,2-Dichloroethene	9.60	96	3304	0.925	ppbv	87	
29) Hexane	9.99	57	4074	0.928	ppbv	67	
30) Chloroform	10.07	83	8039	0.954	ppbv	99	
31) Ethyl acetate	9.92	43	6902m	0.889	ppbv		
32) Tetrahydrofuran	10.73	42	3358	0.916	ppbv	89	
33) 2-Butanone (MEK)	8.88	72	855	0.711	ppbv	92	
34) 1,2-Dichloroethane (EDC)	11.30	62	5394m	0.945	ppbv		
35) 1,1,1-Trichloroethane	11.79	97	6583	0.957	ppbv	94	
36) Carbon tetrachloride	12.83	117	6875	0.968	ppbv	98	
37) Benzene	12.58	78	10404m	0.922	ppbv		
38) Cyclohexane	13.05	84	2519	0.894	ppbv	92	
40) 1,2-Dichloropropane	13.77	63	4967m	0.914	ppbv		

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

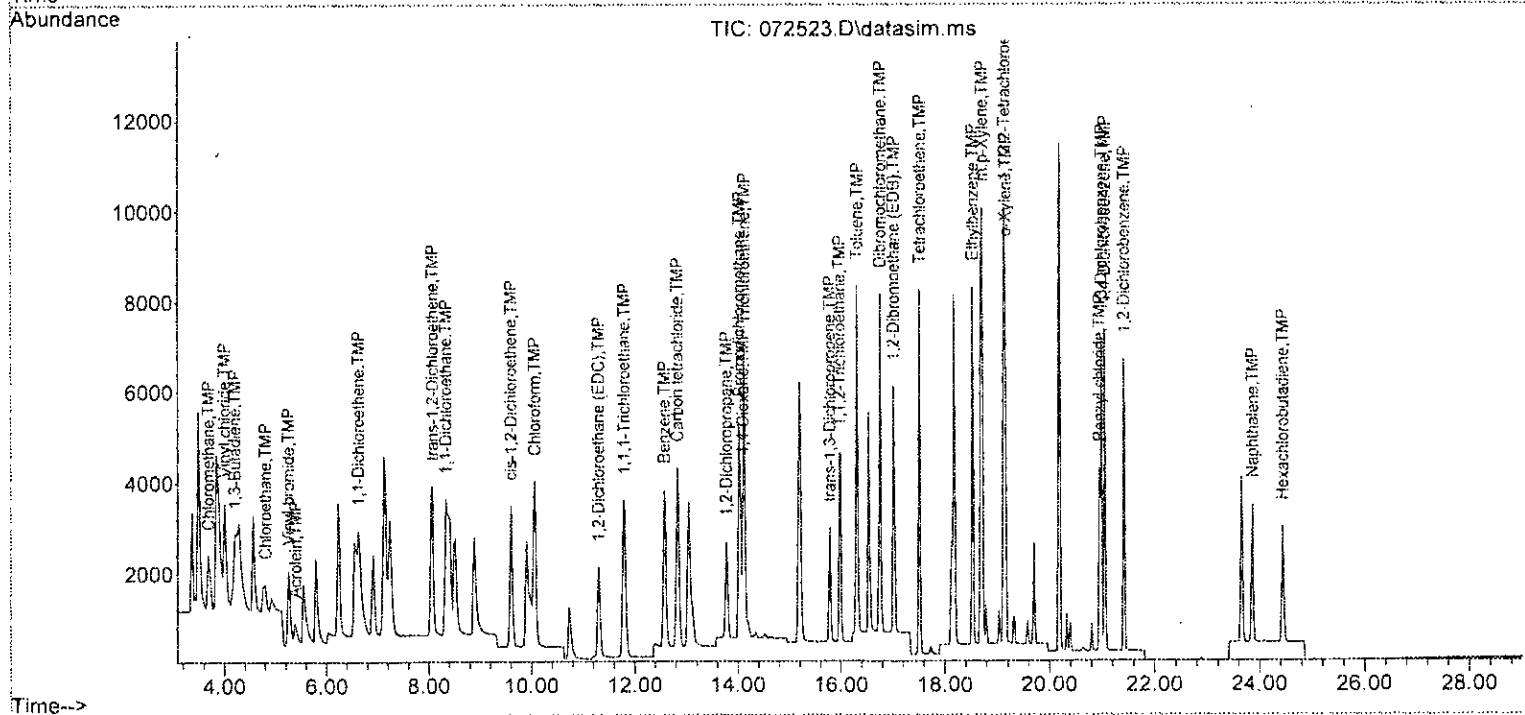
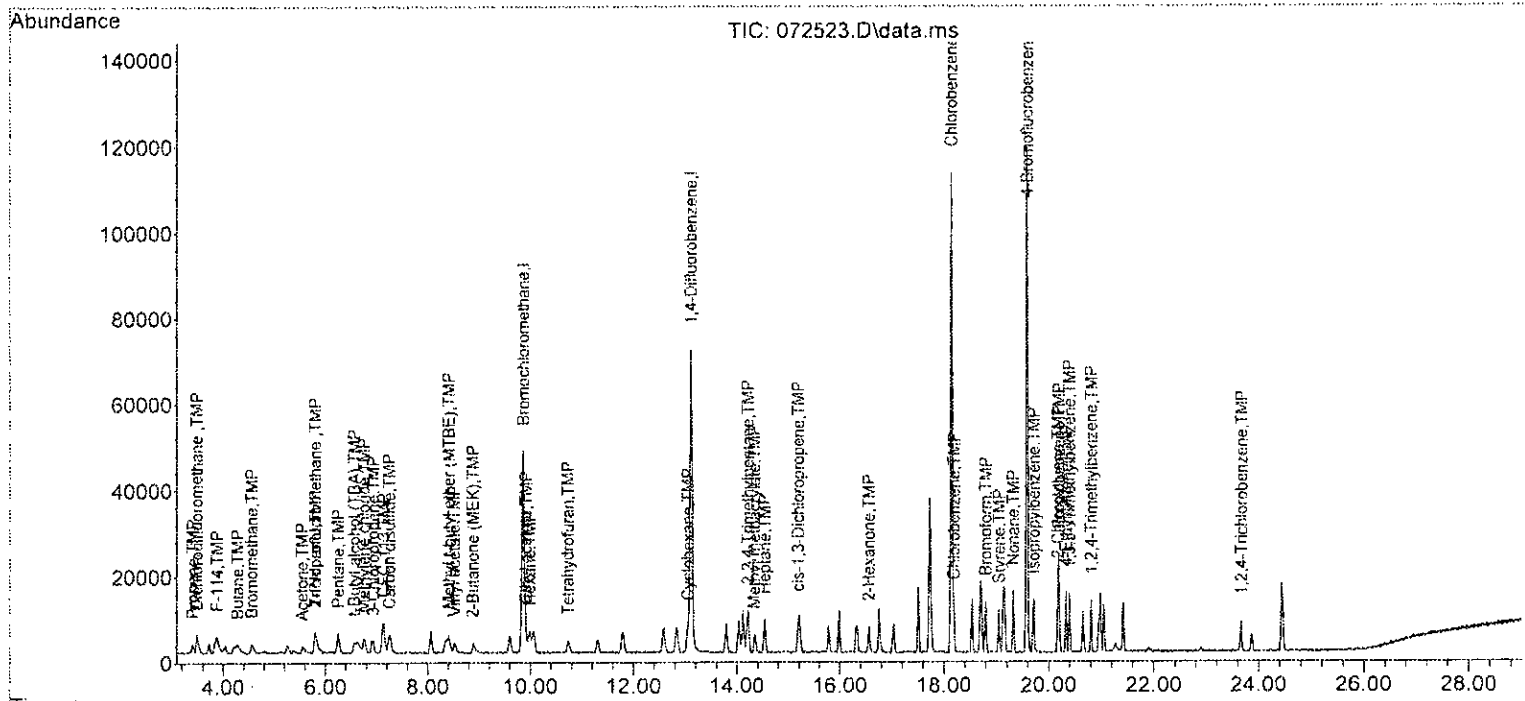
Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	1930	0.941	ppbv	79
42) 2,2,4-Trimethylpentane	14.21	57	14863	0.924	ppbv #	90
43) Methyl methacrylate	14.33	41	4081	0.869	ppbv #	92
44) Heptane	14.53	43	5068	0.879	ppbv #	96
45] Bromodichloromethane	14.02	83	8254	0.936	ppbv	100
46] Trichloroethene	14.12	95	5137	0.910	ppbv	97
47) cis-1,3-Dichloropropene	15.18	75	5306	0.900	ppbv	94
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49] trans-1,3-Dichloropropene	15.78	75	4843	0.910	ppbv	97
50] Toluene	16.31	92	5884m	0.881	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	4563m	0.897	ppbv	
52) 2-Hexanone	16.56	43	6581	0.898	ppbv	92
53] Tetrachloroethene	17.52	164	3684m	0.931	ppbv	
54] Dibromochloromethane	16.76	129	7698	0.949	ppbv	93
55] 1,2-Dibromoethane (EDB)	17.01	107	7085m	0.885	ppbv	
57) Chlorobenzene	18.19	112	7433	0.952	ppbv	96
58] Ethylbenzene	18.53	91	11771	0.895	ppbv	100
59] 1,1,2,2-Tetrachloroethane	19.13	83	10172	0.919	ppbv	94
60) Nonane	19.32	43	6456	1.005	ppbv #	94
61) Isopropylbenzene	19.72	105	10848	0.956	ppbv	94
62) 2-Chlorotoluene	20.17	126	2839	0.966	ppbv	87
63) Propylbenzene	20.19	91	21644	0.913	ppbv	99
64) 4-Ethyltoluene	20.33	105	9540	0.879	ppbv	97
65] m,p-Xylene	18.70	106	7996	1.802	ppbv	99
66] o-Xylene	19.15	106	3687	0.911	ppbv	91
67) Styrene	19.05	104	5109	0.911	ppbv	99
68) Bromoform	18.80	173	7126	1.090	ppbv	98
70] Benzyl chloride	20.95	91	6180	0.908	ppbv	90
71) 1,3,5-Trimethylbenzene	20.39	105	8872	0.916	ppbv	95
72) 1,2,4-Trimethylbenzene	20.81	105	7734	0.909	ppbv	96
73] 1,3-Dichlorobenzene	20.99	146	6434	0.906	ppbv	92
74] 1,4-Dichlorobenzene	21.05	146	6002	0.912	ppbv	90
75] 1,2-Dichlorobenzene	21.41	146	6148	0.899	ppbv	95
76) 1,2,4-Trichlorobenzene	23.67	180	3889	0.901	ppbv	91
77] Naphthalene	23.86	128	6100	0.791	ppbv	99
78] Hexachlorobutadiene	24.44	225	5514	0.908	ppbv	98

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	1.000	1.008	-0.8	100	0.00
3 TMP Dichlorodifluoromethane	1.000	0.927	7.3	100	0.00
4 TMP Chloromethane	1.000	1.040	-4.0	100	0.00
5 TMP F-114	1.000	1.062	-6.2	100	0.00
6 TMP Vinyl chloride	1.000	0.968	3.2	100	0.00
7 TMP 1,3-Butadiene	1.000	0.939	6.1	100	0.00
8 TMP Butane	1.000	0.899	10.1	100	0.00
9 TMP Bromomethane	1.000	0.903	9.7	100	0.00
10 TMP Chloroethane	1.000	0.948	5.2	102	0.00
11 TMP Vinyl bromide	1.000	0.952	4.8	102	0.00
12 TMP Ethanol	1.000	0.000	100.0#	0	-4.92#
13 TMP Acrolein	1.000	0.889	11.1	96	0.02
14 TMP Pentane	1.000	0.934	6.6	100	0.00
15 TMP Trichlorofluoromethane	1.000	0.821	17.9	100	0.00
16 TMP Acetone	1.000	0.766	23.4	100	0.00
17 TMP 2-Propanol	1.000	0.811	18.9	100	0.02
18 TMP 1,1-Dichloroethene	1.000	0.947	5.3	100	-0.03
19 TMP trans-1,2-Dichloroethene	1.000	0.965	3.5	100	0.00
20 TMP Methylene chloride	1.000	0.967	3.3	100	-0.03
21 TMP t-Butyl alcohol (TBA)	1.000	0.877	12.3	100	0.00
22 TMP 3-Chloropropene	1.000	0.932	6.8	100	0.00
23 TMP CFC-113	1.000	0.964	3.6	100	0.00
24 TMP Carbon disulfide	1.000	0.972	2.8	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	1.000	0.887	11.3	100	0.00
26 TMP Vinyl acetate	1.000	0.894	10.6	100	0.00
27 TMP 1,1-Dichloroethane	1.000	0.954	4.6	100	0.00
28 TMP cis-1,2-Dichloroethene	1.000	0.925	7.5	100	0.00
29 TMP Hexane	1.000	0.928	7.2	100	0.00
30 TMP Chloroform	1.000	0.954	4.6	100	0.00
31 TMP Ethyl acetate	1.000	0.889	11.1	100	0.02
32 TMP Tetrahydrofuran	1.000	0.916	8.4	100	0.00
33 TMP 2-Butanone (MEK)	1.000	0.711	28.9	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	1.000	0.945	5.5	101	0.00
35 TMP 1,1,1-Trichloroethane	1.000	0.957	4.3	100	0.00
36 TMP Carbon tetrachloride	1.000	0.968	3.2	100	0.00
37 TMP Benzene	1.000	0.922	7.8	100	0.00
38 TMP Cyclohexane	1.000	0.894	10.6	100	0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	1.000	0.914	8.6	101	0.00
41 TMP 1,4-Dioxane	1.000	0.941	5.9	100	0.02
42 TMP 2,2,4-Trimethylpentane	1.000	0.924	7.6	100	0.00
43 TMP Methyl methacrylate	1.000	0.869	13.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv T015 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	1.000	0.879	12.1	100	0.00
45 TMP Bromodichloromethane	1.000	0.936	6.4	100	0.00
46 TMP Trichloroethene	1.000	0.910	9.0	100	0.00
47 TMP cis-1,3-Dichloropropene	1.000	0.900	10.0	100	0.00
48 TMP 4-Methyl-2-pentanone	1.000	0.000	100.0#	0	-15.21#
49 TMP trans-1,3-Dichloropropene	1.000	0.910	9.0	100	0.00
50 TMP Toluene	1.000	0.881	11.9	102	0.00
51 TMP 1,1,2-Trichloroethane	1.000	0.897	10.3	99	0.00
52 TMP 2-Hexanone	1.000	0.898	10.2	100	0.00
53 TMP Tetrachloroethene	1.000	0.931	6.9	101	0.00
54 TMP Dibromochloromethane	1.000	0.949	5.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	1.000	0.885	11.5	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	1.000	0.952	4.8	100	0.00
58 TMP Ethylbenzene	1.000	0.895	10.5	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.000	0.919	8.1	100	0.00
60 TMP Nonane	1.000	1.005	-0.5	100	0.00
61 TMP Isopropylbenzene	1.000	0.956	4.4	100	0.00
62 TMP 2-Chlorotoluene	1.000	0.966	3.4	100	0.00
63 TMP Propylbenzene	1.000	0.913	8.7	100	0.00
64 TMP 4-Ethyltoluene	1.000	0.879	12.1	100	0.00
65 TMP m,p-Xylene	2.000	1.802	9.9	100	0.00
66 TMP o-Xylene	1.000	0.911	8.9	100	0.00
67 TMP Styrene	1.000	0.911	8.9	100	0.00
68 TMP Bromoform	1.000	1.090	-9.0	100	0.00
69 S 4-Bromofluorobenzene	10.000	9.632	3.7	100	0.00
70 TMP Benzyl chloride	1.000	0.908	9.2	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.000	0.916	8.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.000	0.909	9.1	100	0.00
73 TMP 1,3-Dichlorobenzene	1.000	0.906	9.4	100	0.00
74 TMP 1,4-Dichlorobenzene	1.000	0.912	8.8	100	0.00
75 TMP 1,2-Dichlorobenzene	1.000	0.899	10.1	100	0.00
76 TMP 1,2,4-Trichlorobenzene	1.000	0.901	9.9	100	0.00
77 TMP Naphthalene	1.000	0.791	20.9	100	0.00
78 TMP Hexachlorobutadiene	1.000	0.908	9.2	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM57\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCM57 Methods\0725TO15ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	1.231	-0.8	100	0.00
3 TMP Dichlorodifluoromethane	4.917	4.558	7.3	100	0.00
4 TMP Chloromethane	1.713	1.782	-4.0	100	0.00
5 TMP F-114	4.288	4.556	-6.2	100	0.00
6 TMP Vinyl chloride	1.937	1.874	3.3	100	0.00
7 TMP 1,3-Butadiene	1.242	1.167	6.0	100	0.00
8 TMP Butane	2.483	2.232	10.1	100	0.00
9 TMP Bromomethane	1.711	1.545	9.7	100	0.00
10 TMP Chloroethane	0.689	0.654	5.1	102	0.00
11 TMP Vinyl bromide	1.725	1.642	4.8	102	0.00
12 TMP Ethanol	0.543	0.000	100.0#	0#	-4.92#
13 TMP Acrolein	0.729	0.648	11.1	96	0.02
14 TMP Pentane	2.839	2.651	6.6	100	0.00
15 TMP Trichlorofluoromethane	4.796	3.937	17.9	100	0.00
16 TMP Acetone	0.670	0.514	23.3	100	0.00
17 TMP 2-Propanol	2.930	2.377	18.9	100	0.02
18 TMP 1,1-Dichloroethene	1.641	1.553	5.4	100	-0.03
19 TMP trans-1,2-Dichloroethene	1.625	1.568	3.5	100	0.00
20 TMP Methylene chloride	1.604	1.551	3.3	100	-0.03
21 TMP t-Butyl alcohol (TBA)	2.544	2.230	12.3	100	0.00
22 TMP 3-Chloropropene	2.076	1.934	6.8	100	0.00
23 TMP CFC-113	3.525	3.396	3.7	100	0.00
24 TMP Carbon disulfide	5.324	5.177	2.8	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.076	11.3	100	0.00
26 TMP Vinyl acetate	3.863	3.454	10.6	100	0.00
27 TMP 1,1-Dichloroethane	3.597	3.431	4.6	100	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.642	7.4	100	0.00
29 TMP Hexane	2.181	2.024	7.2	100	0.00
30 TMP Chloroform	4.186	3.995	4.6	100	0.00
31 TMP Ethyl acetate	3.859	3.430	11.1	100	0.02
32 TMP Tetrahydrofuran	1.822	1.669	8.4	100	0.00
33 TMP 2-Butanone (MEK)	0.597	0.425	28.8	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.680	5.5	101	0.00
35 TMP 1,1,1-Trichloroethane	3.417	3.271	4.3	100	0.00
36 TMP Carbon tetrachloride	3.530	3.416	3.2	100	0.00
37 TMP Benzene	5.604	5.170	7.7	100	0.00
38 TMP Cyclohexane	1.400	1.252	10.6	100	0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.565	8.7	101	0.00
41 TMP 1,4-Dioxane	0.233	0.220	5.6	100	0.02
42 TMP 2,2,4-Trimethylpentane	1.831	1.692	7.6	100	0.00
43 TMP Methyl methacrylate	0.534	0.465	12.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072523.D  
 Acq On : 26 Jul 2023 2:47 am  
 Operator : bat  
 Sample : 1.0 ppbv TO15 69-157-b  
 Misc : T5  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:56:52 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.577	12.0	100	0.00
45 TMP Bromodichloromethane	1.004	0.939	6.5	100	0.00
46 TMP Trichloroethene	0.642	0.585	8.9	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.604	10.0	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.000	100.0#	0#	-15.21#
49 TMP trans-1,3-Dichloropropene	0.606	0.551	9.1	100	0.00
50 TMP Toluene	0.761	0.670	12.0	102	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.519	10.4	99	0.00
52 TMP 2-Hexanone	0.834	0.749	10.2	100	0.00
53 TMP Tetrachloroethene	0.450	0.419	6.9	101	0.00
54 TMP Dibromochloromethane	0.923	0.876	5.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.806	11.5	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.017	4.9	100	0.00
58 TMP Ethylbenzene	1.800	1.610	10.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.392	8.1	100	0.00
60 TMP Nonane	0.879	0.883	-0.5	100	0.00
61 TMP Isopropylbenzene	1.553	1.484	4.4	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.388	3.5	100	0.00
63 TMP Propylbenzene	3.242	2.961	8.7	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.305	12.1	100	0.00
65 TMP m,p-Xylene	0.607	0.547	9.9	100	0.00
66 TMP o-Xylene	0.554	0.504	9.0	100	0.00
67 TMP Styrene	0.767	0.699	8.9	100	0.00
68 TMP Bromoform	0.895	0.975	-8.9	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.714	3.6	100	0.00
70 TMP Benzyl chloride	0.931	0.845	9.2	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.214	8.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.058	9.1	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.880	9.5	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.821	8.8	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.841	10.1	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.532	9.8	100	0.00
77 TMP Naphthalene	1.053	0.835	20.7	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.754	9.3	100	0.00

(#) = Out of Range

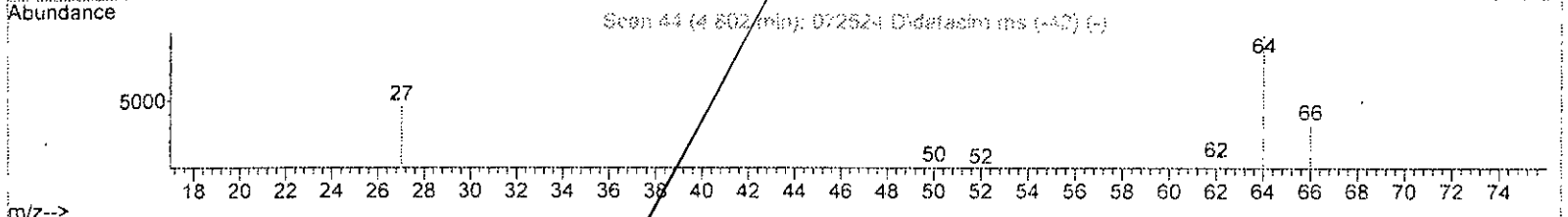
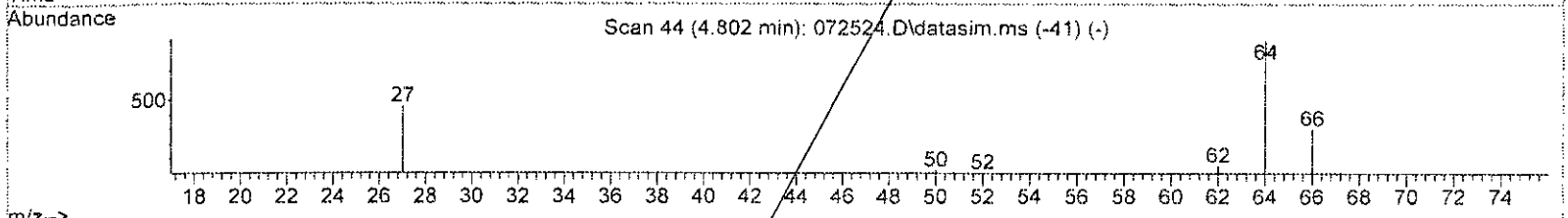
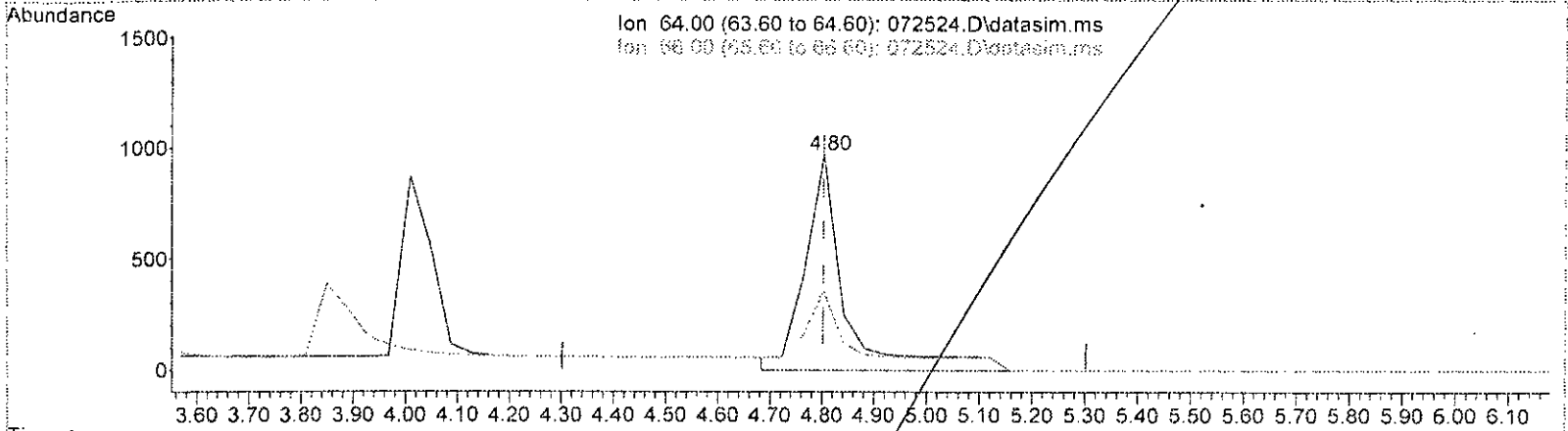
SPCC's out = 0 CCC's out = 0



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(10) Chloroethane (TMP)  
 4.802min (+ 0.000) 3.794 ppbv  
 response 4963

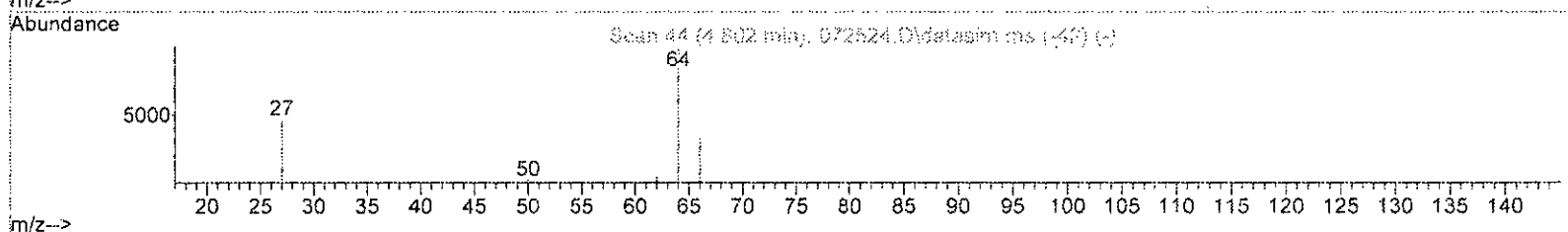
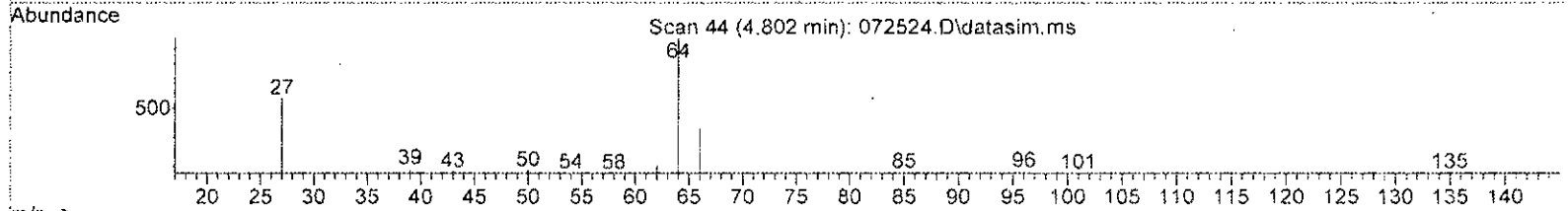
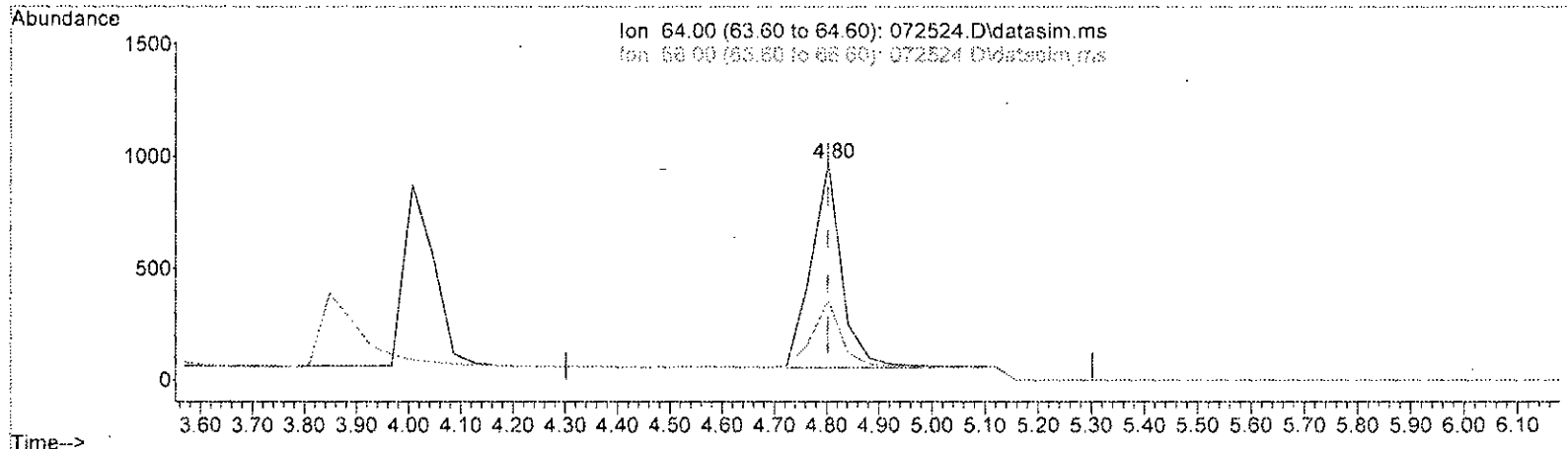
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	36.66
0.00	0.00	0.00
0.00	0.00	0.00

*h/*  
*7/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(10) Chloroethane (TMP)  
 4.802min (+ 0.000) 2.813 ppbv m  
 response 3679

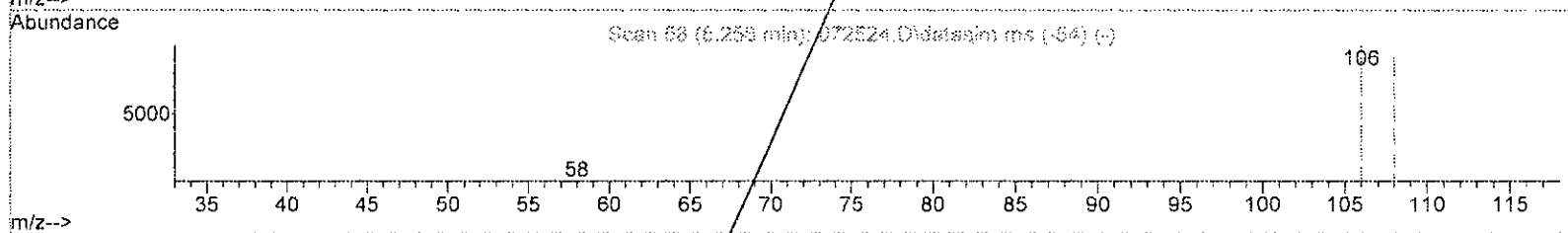
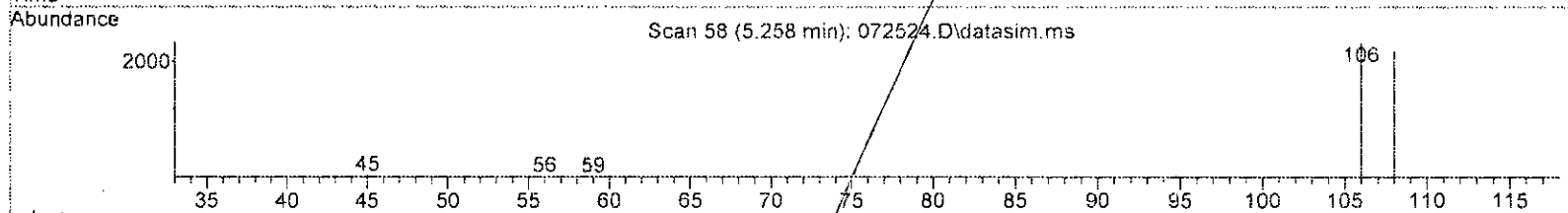
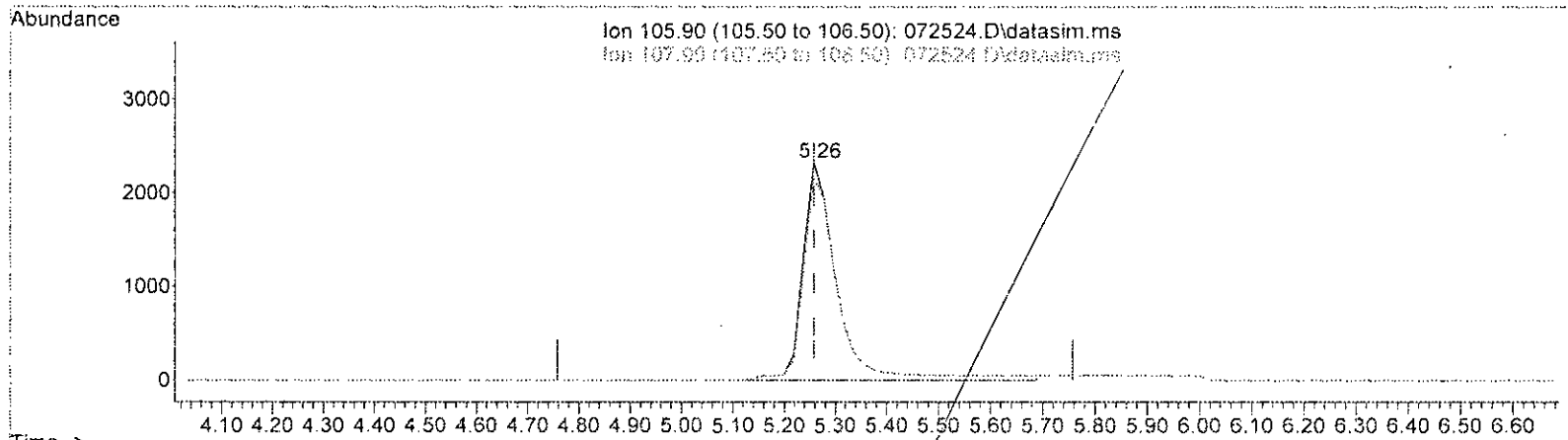
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	36.66
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

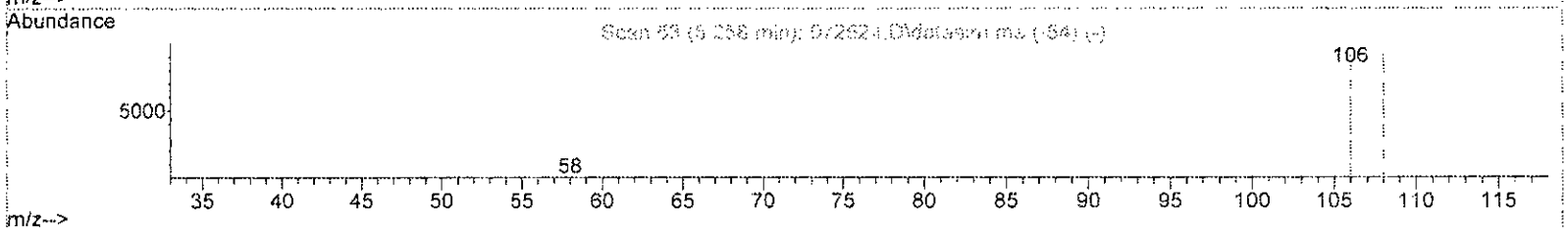
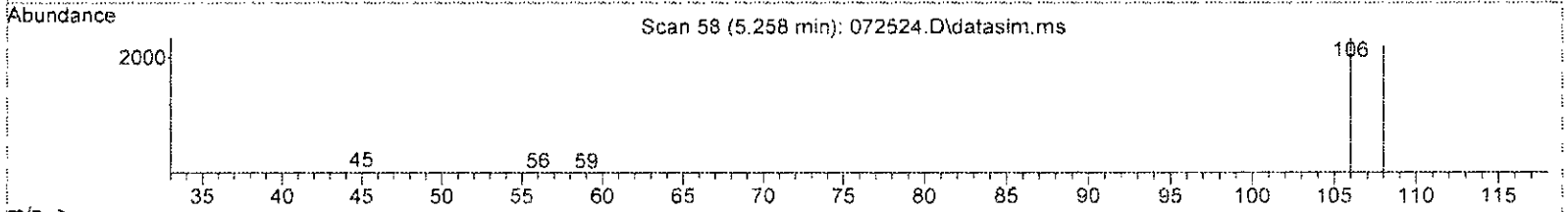
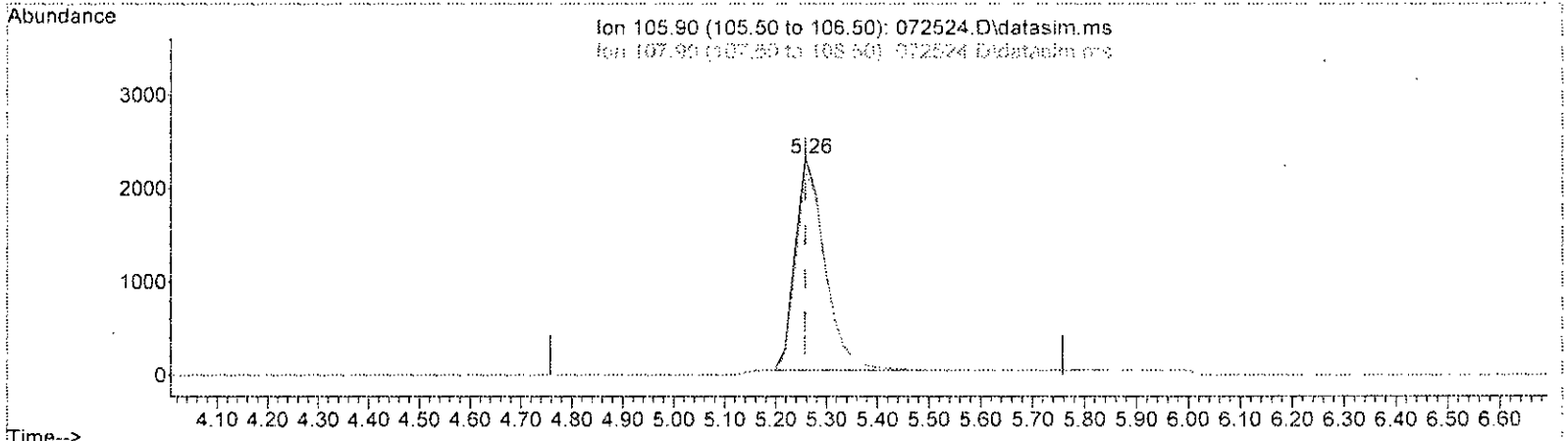
(11) Vinyl bromide (TMP)			
5.258min (-0.000)		3.575 ppbv	
response	11702		
Ion	Exp%	Act%	
105.90	100.00	100.00	
107.90	94.10	94.91	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: 7/31/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(11) Vinyl bromide (TMP)  
 5.258min (-0.000) 2.845 ppbv m

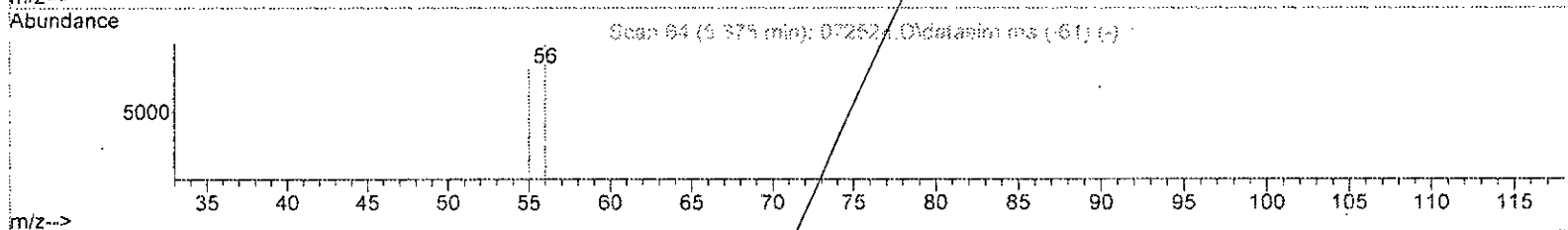
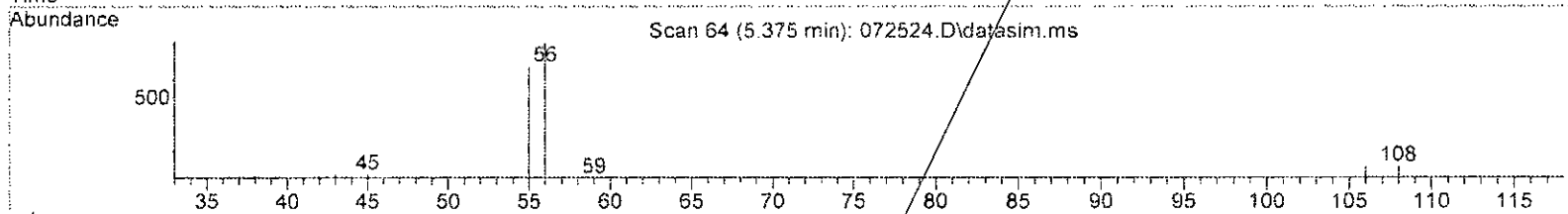
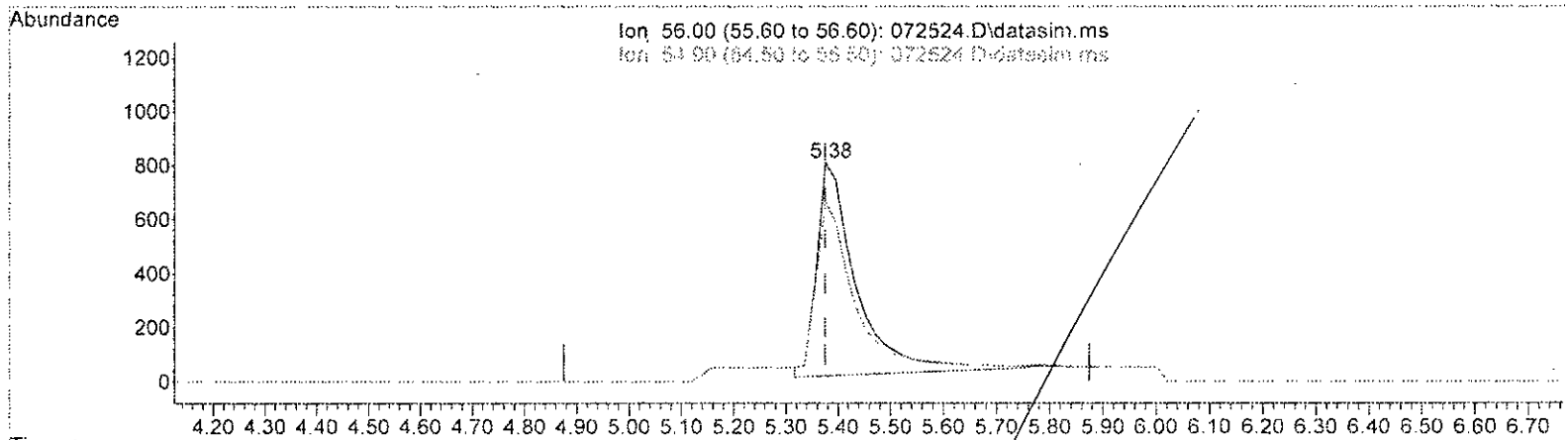
response	9312	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	119.27#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

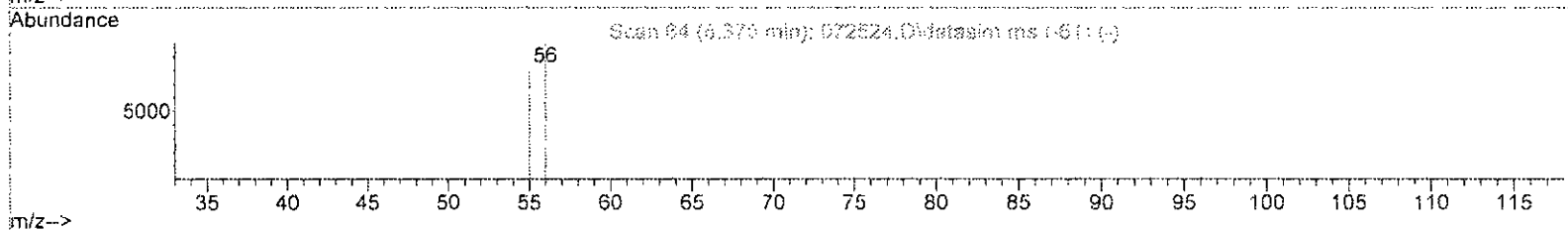
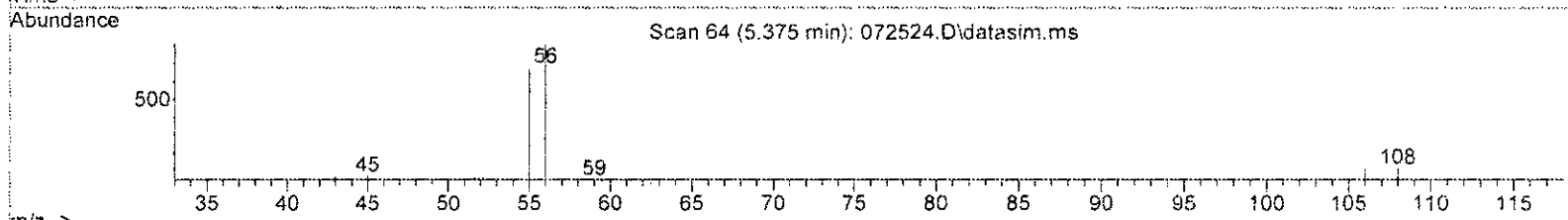
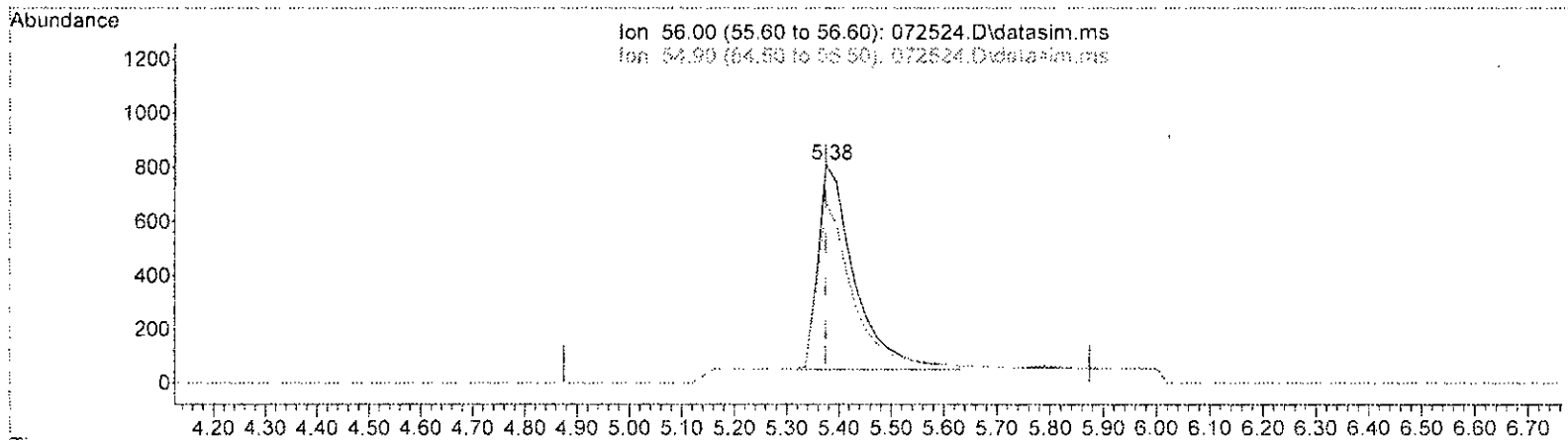
(13) Acrolein (TMP)		
5.375min (+ 0.000)	3.046 ppbv	
response	4211	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	81.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(13) Acrolein (TMP)

5.375min (+ 0.000) 2.681 ppbv m

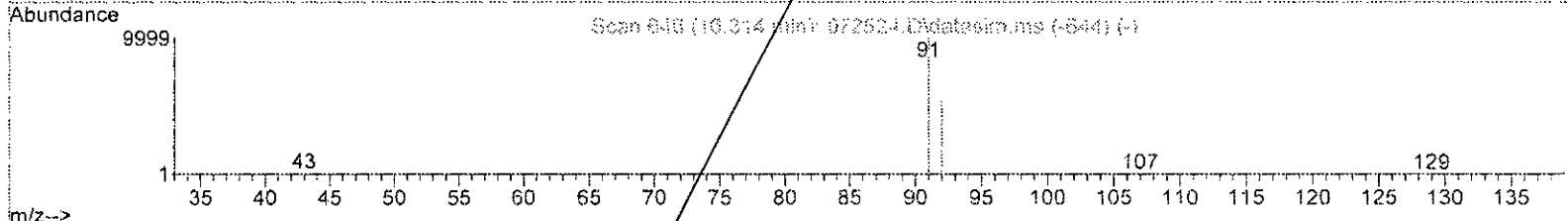
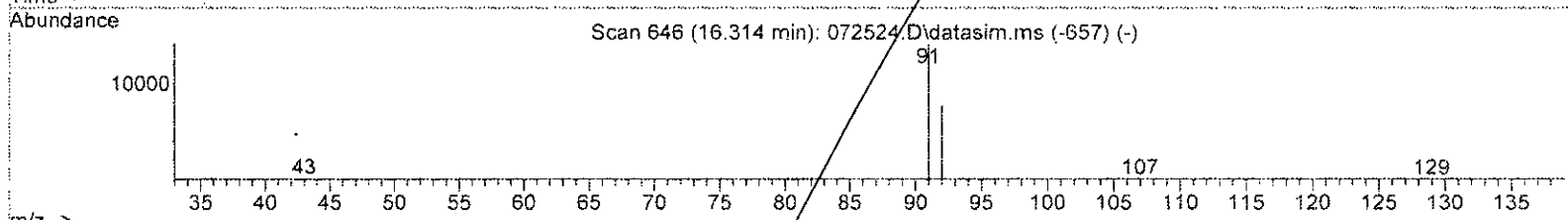
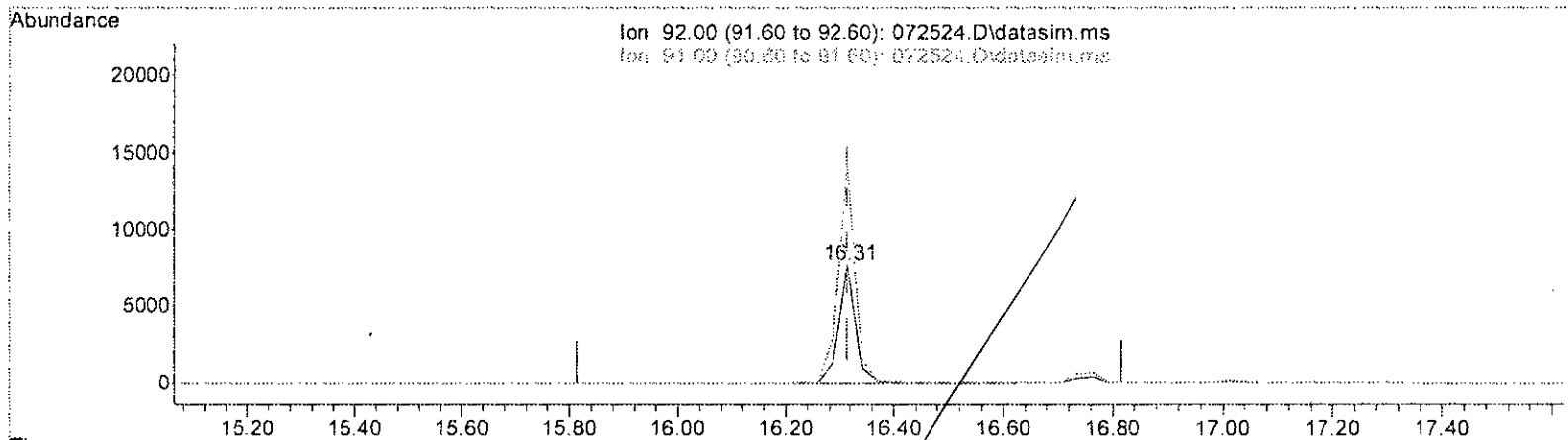
response	3707	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	92.50
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(50) Toluene (TMF)

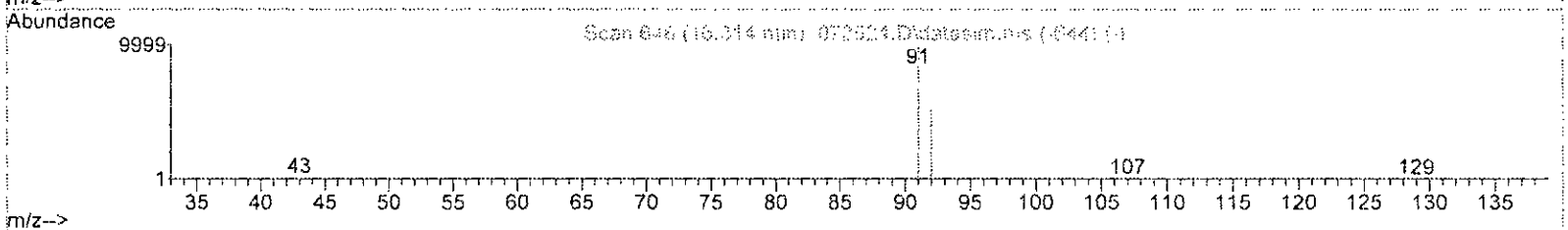
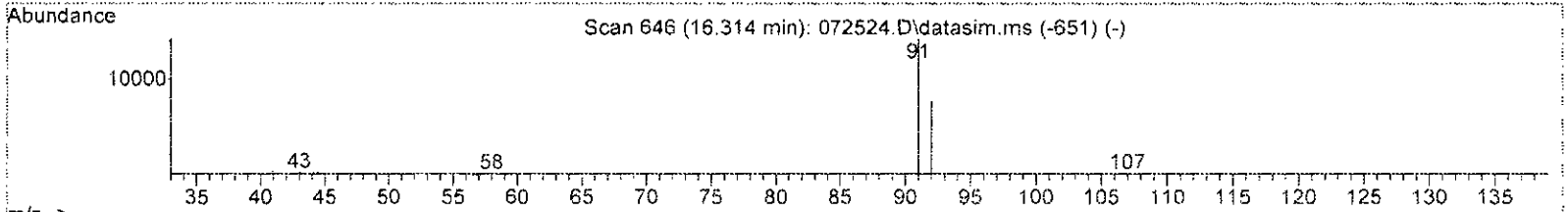
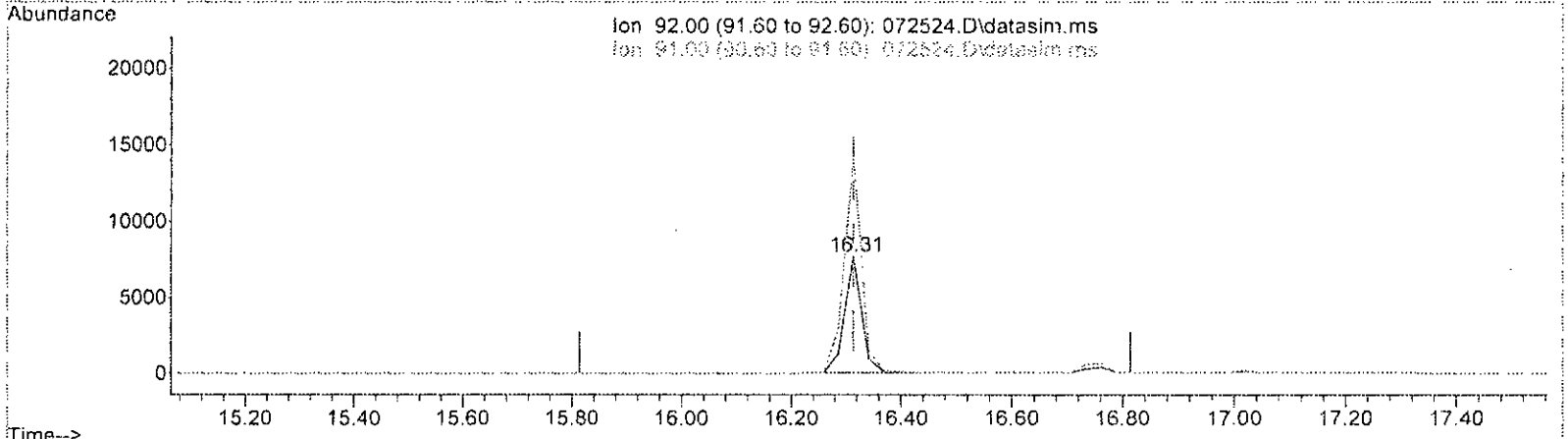
16.314min (+ 0.000)	2.845 ppbv	
response	17425	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	184.88
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(50) Toluene (TMP)

16.314min (+ 0.000) 2.733 ppbv m

response	16739	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	184.88
0.00	0.00	0.00
0.00	0.00	0.00

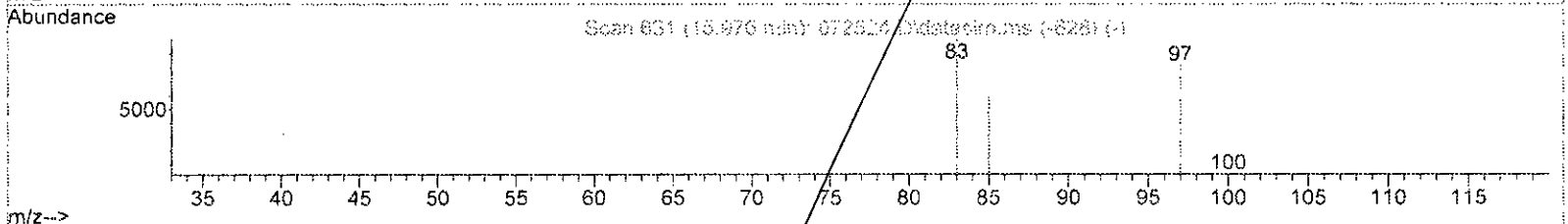
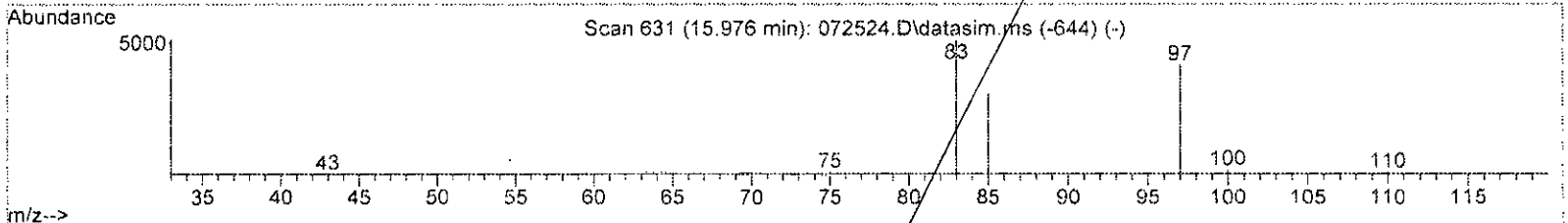
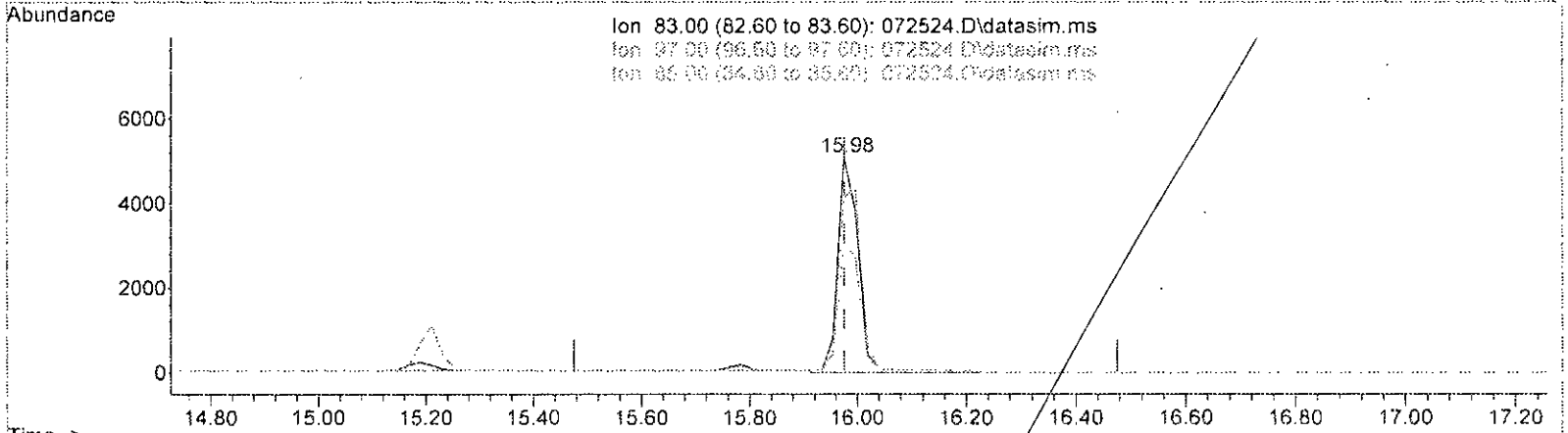
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)  
 15.976min (-0.001) 2.997 ppbv  
 response 13975

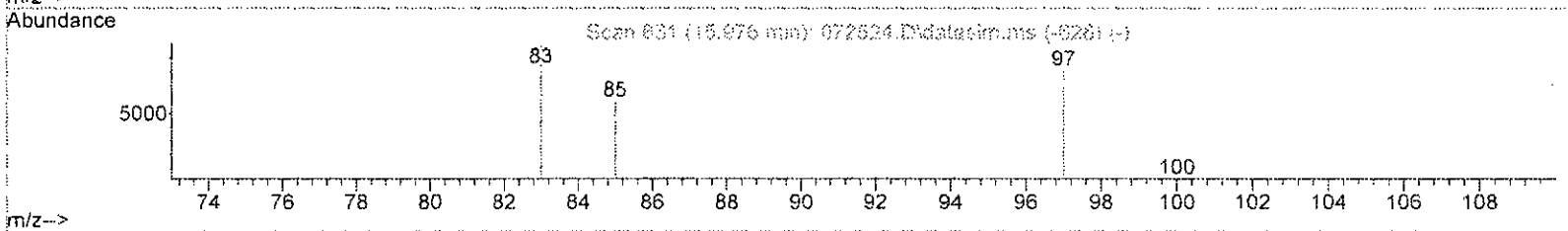
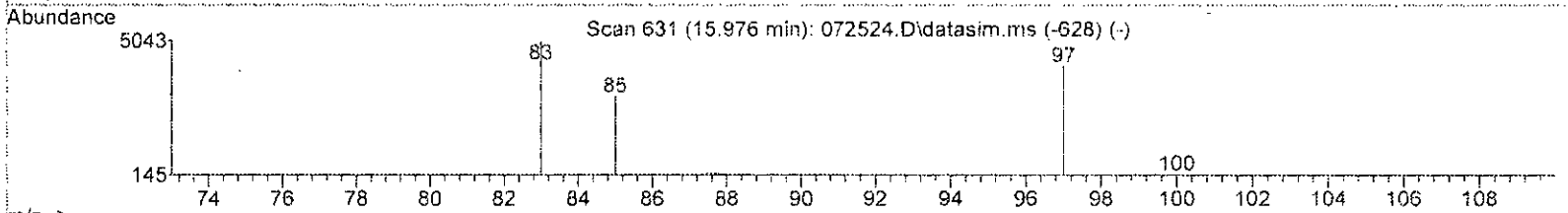
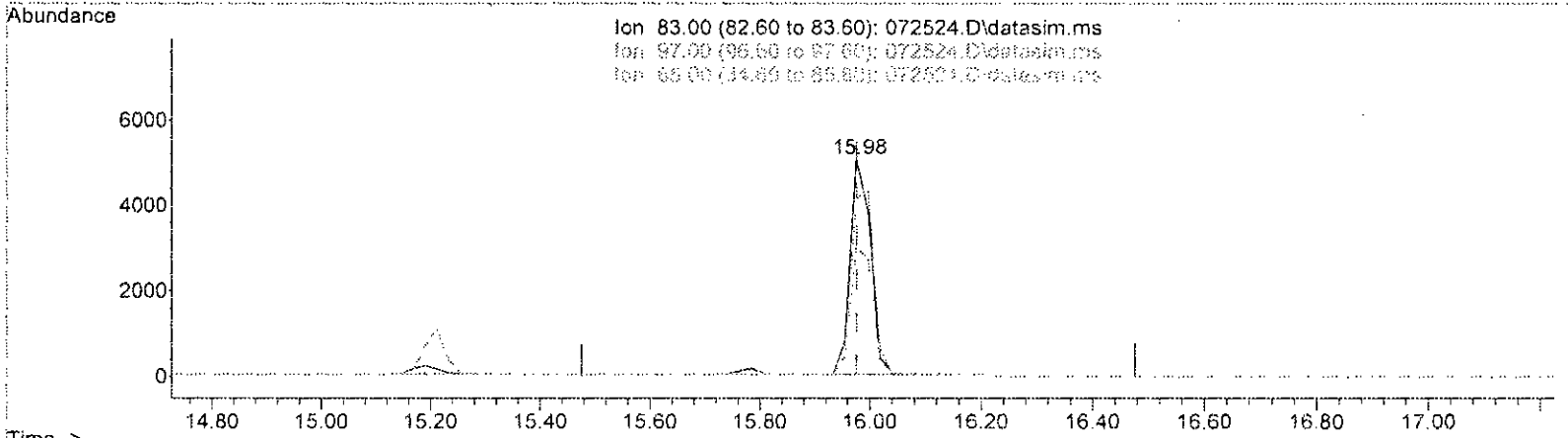
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	81.35
85.00	60.50	59.39
0.00	0.00	0.00

7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.976min (-0.001) 2.747 ppbv m

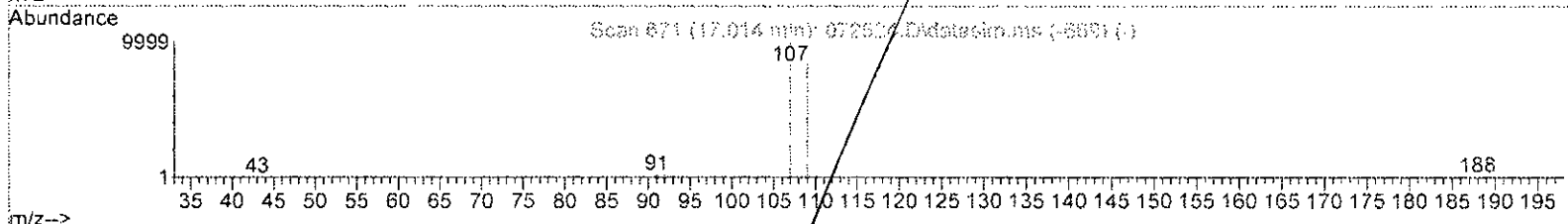
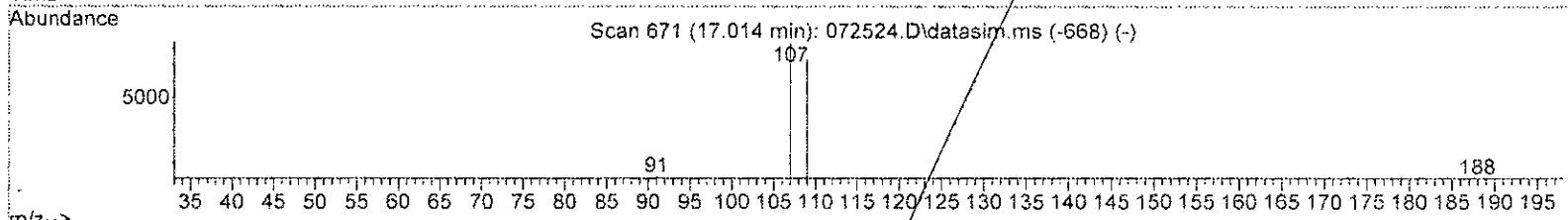
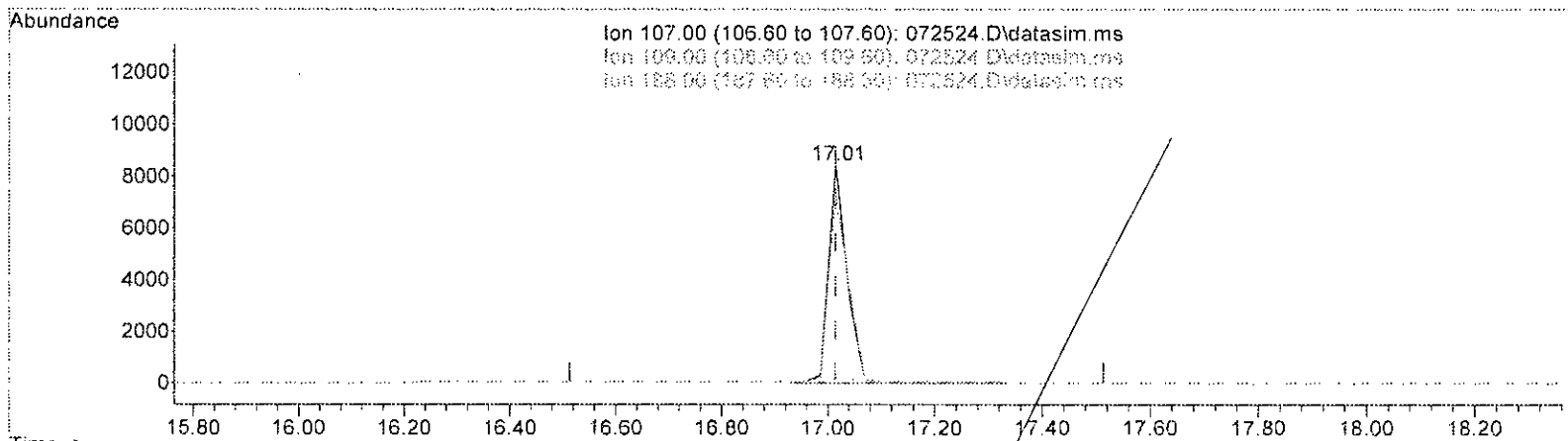
response	12810
Ion	Exp% Act%
83.00	100.00 100.00
97.00	81.80 81.35
85.00	60.50 59.39
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 2.772 ppbv

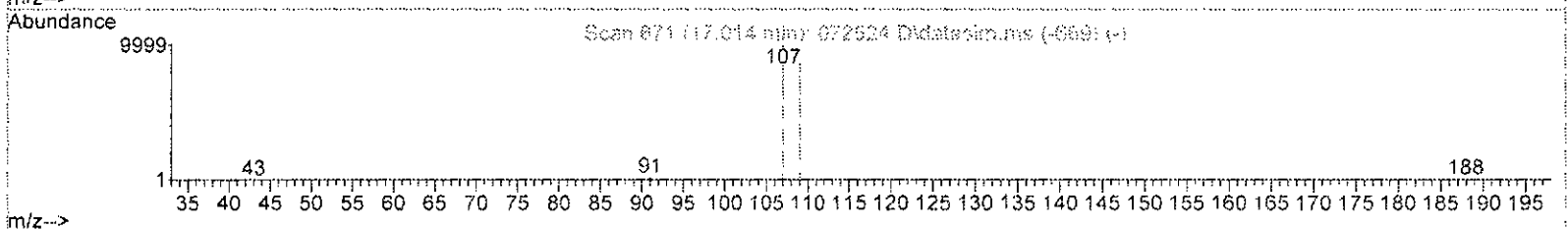
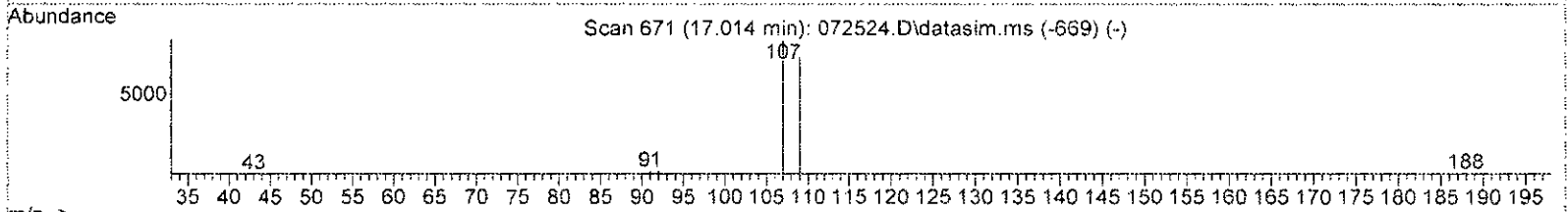
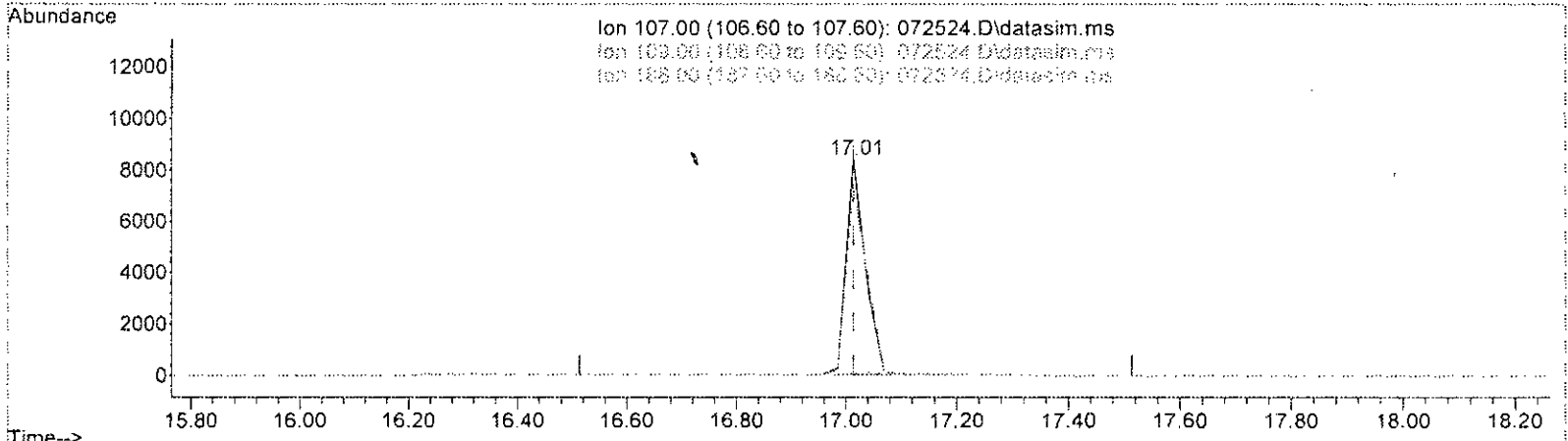
response	20341	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.09
188.00	2.70	1.26
0.00	0.00	0.00

h  
7/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 2.713 ppbv m

response 19909

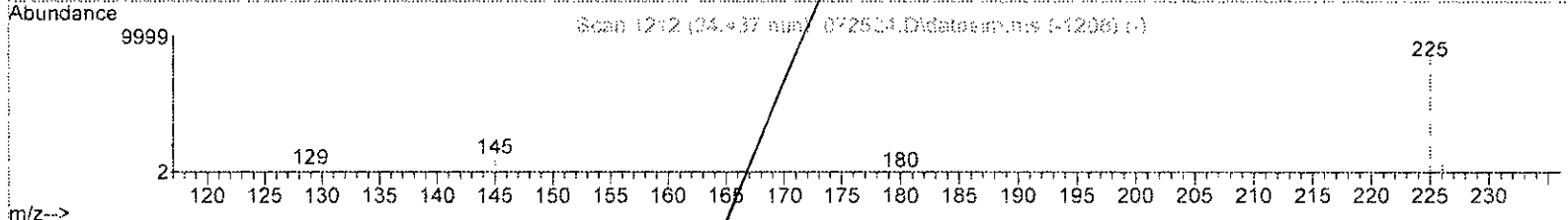
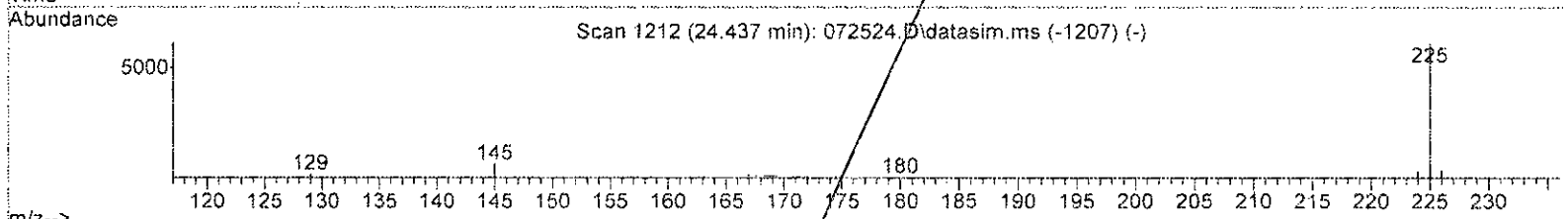
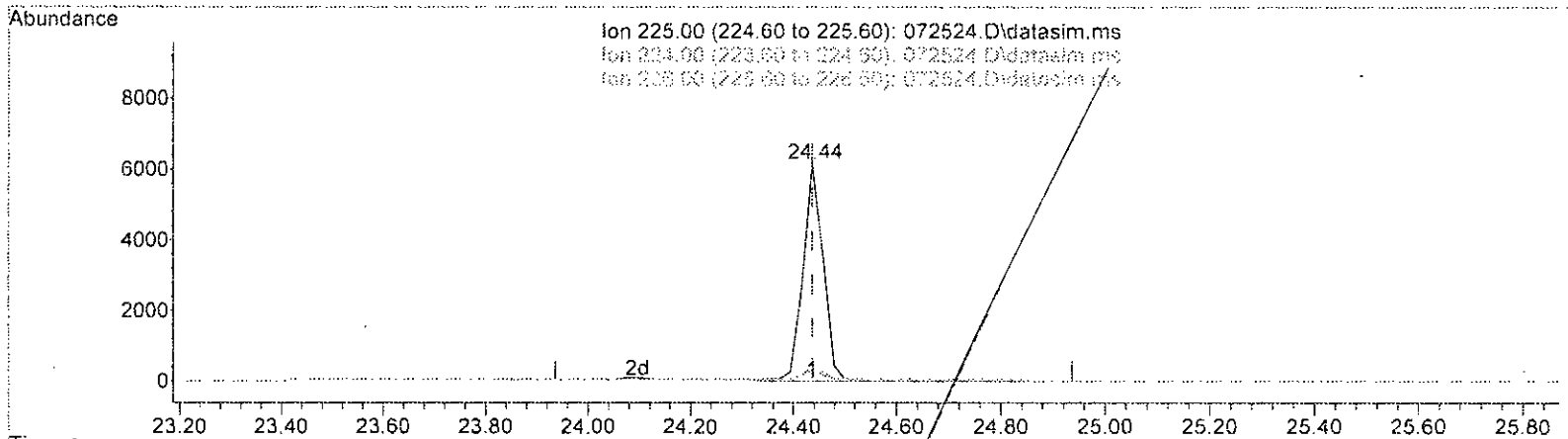
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.09
188.00	2.70	1.26
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072524.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.437min (-0.000) 3.027 ppbv

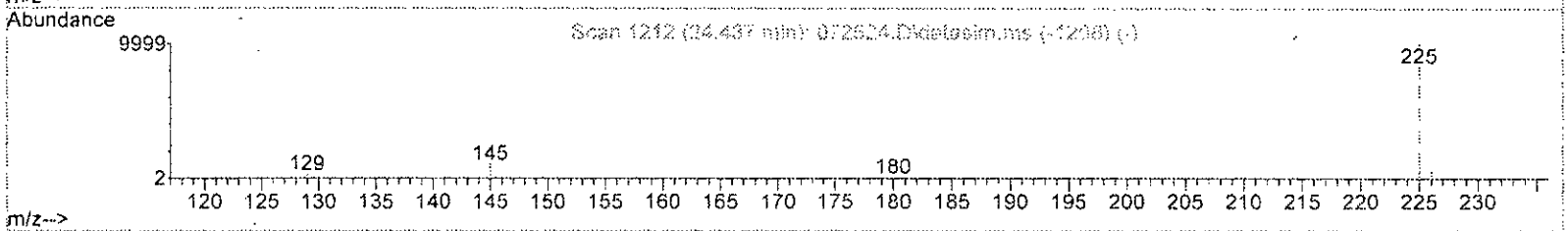
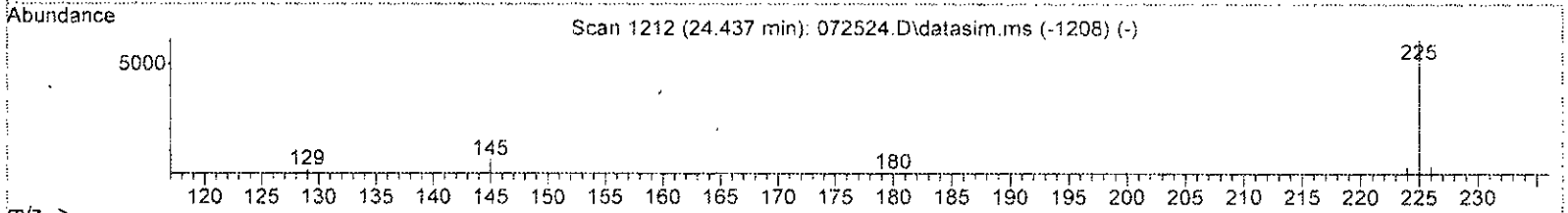
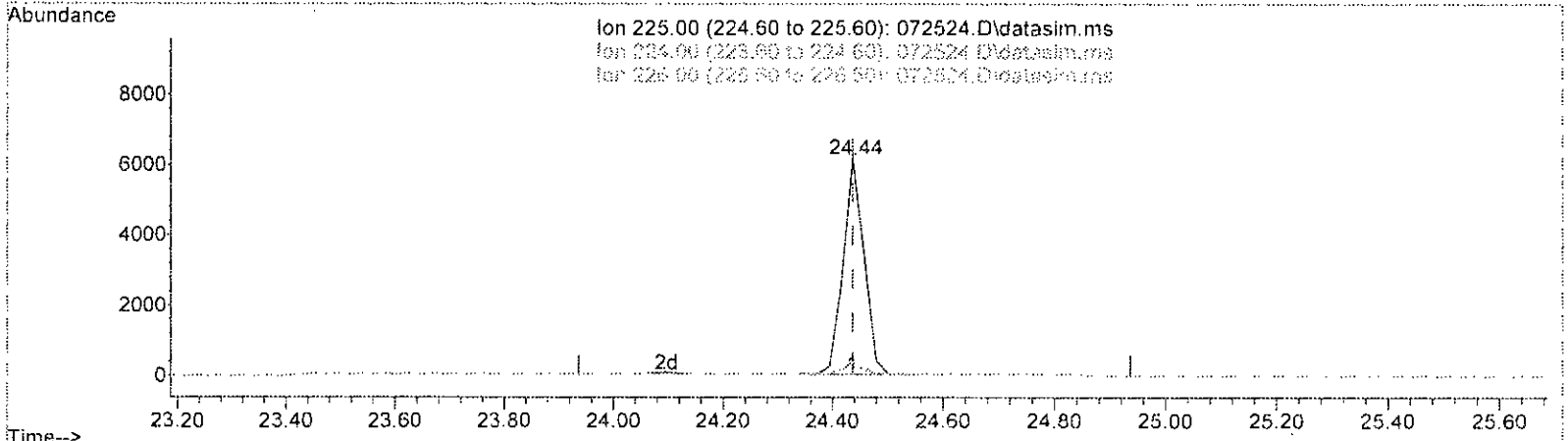
response	17158		
Ion	Exp%	Act%	
225.00	100.00	100.00	
224.00	3.70	5.21	
226.00	5.20	6.18	
0.00	0.00	0.00	

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072524.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.437min (-0.000) 2.834 ppbv m

response 16067

Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	5.21
226.00	5.20	6.18
0.00	0.00	0.00

*Handwritten note: 6 2/31/2*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	18972	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80519	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	68252	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	51842	10.251	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.50%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	6466	2.791	ppbv	95
3) Dichlorodifluoromethane	3.49	85	27191	2.915	ppbv	99
4) Chloromethane	3.69	50	8432	2.594	ppbv	97
5) F-114	3.88	85	24980	3.071	ppbv	99
6] Vinyl chloride	4.01	62	10577	2.879	ppbv	96
7] 1,3-Butadiene	4.21	54	6557	2.783	ppbv #	87
8) Butane	4.28	43	13281	2.819	ppbv	94
9) Bromomethane	4.56	94	9087	2.799	ppbv	97
10] Chloroethane	4.80	64	3679m	2.813	ppbv	
11] Vinyl bromide	5.26	106	9312m	2.845	ppbv	
12) Ethanol	4.92	45	3104	3.010	ppbv	90
13] Acrolein	5.38	56	3707m	2.681	ppbv	
14) Pentane	6.25	43	15069	2.798	ppbv	98
15) Trichlorofluoromethane	5.80	101	27250	2.995	ppbv	93
16) Acetone	5.55	58	3317	2.608	ppbv	100
17) 2-Propanol	5.78	45	13681	2.461	ppbv #	97
18] 1,1-Dichloroethene	6.65	96	8620	2.769	ppbv	98
19] trans-1,2-Dichloroethene	8.07	96	8548	2.772	ppbv #	82
20) Methylene chloride	6.78	84	9180	3.017	ppbv	91
21) t-Butyl alcohol (TBA)	6.57	59	13650	2.829	ppbv #	61
22) 3-Chloropropene	6.94	41	11871	3.015	ppbv	98
23) CFC-113	7.15	101	19299	2.886	ppbv	98
24) Carbon disulfide	7.25	76	28317	2.804	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	18040	2.743	ppbv	99
26) Vinyl acetate	8.51	43	20413	2.785	ppbv	100
27] 1,1-Dichloroethane	8.33	63	19189	2.812	ppbv	96
28] cis-1,2-Dichloroethene	9.60	96	9042	2.686	ppbv	84
29) Hexane	9.99	57	11549	2.791	ppbv	87
30] Chloroform	10.07	83	22006	2.771	ppbv	99
31) Ethyl acetate	9.90	43	20285	2.771	ppbv #	95
32) Tetrahydrofuran	10.72	42	9746	2.819	ppbv	95
33) 2-Butanone (MEK)	8.88	72	3050	2.691	ppbv #	85
34] 1,2-Dichloroethane (EDC)	11.30	62	15366	2.857	ppbv	100
35] 1,1,1-Trichloroethane	11.79	97	18333	2.828	ppbv	93
36] Carbon tetrachloride	12.83	117	19113	2.854	ppbv	98
37] Benzene	12.58	78	29055	2.733	ppbv	98
38) Cyclohexane	13.04	84	7394	2.783	ppbv	95
40] 1,2-Dichloropropane	13.77	63	13884	2.786	ppbv	99

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

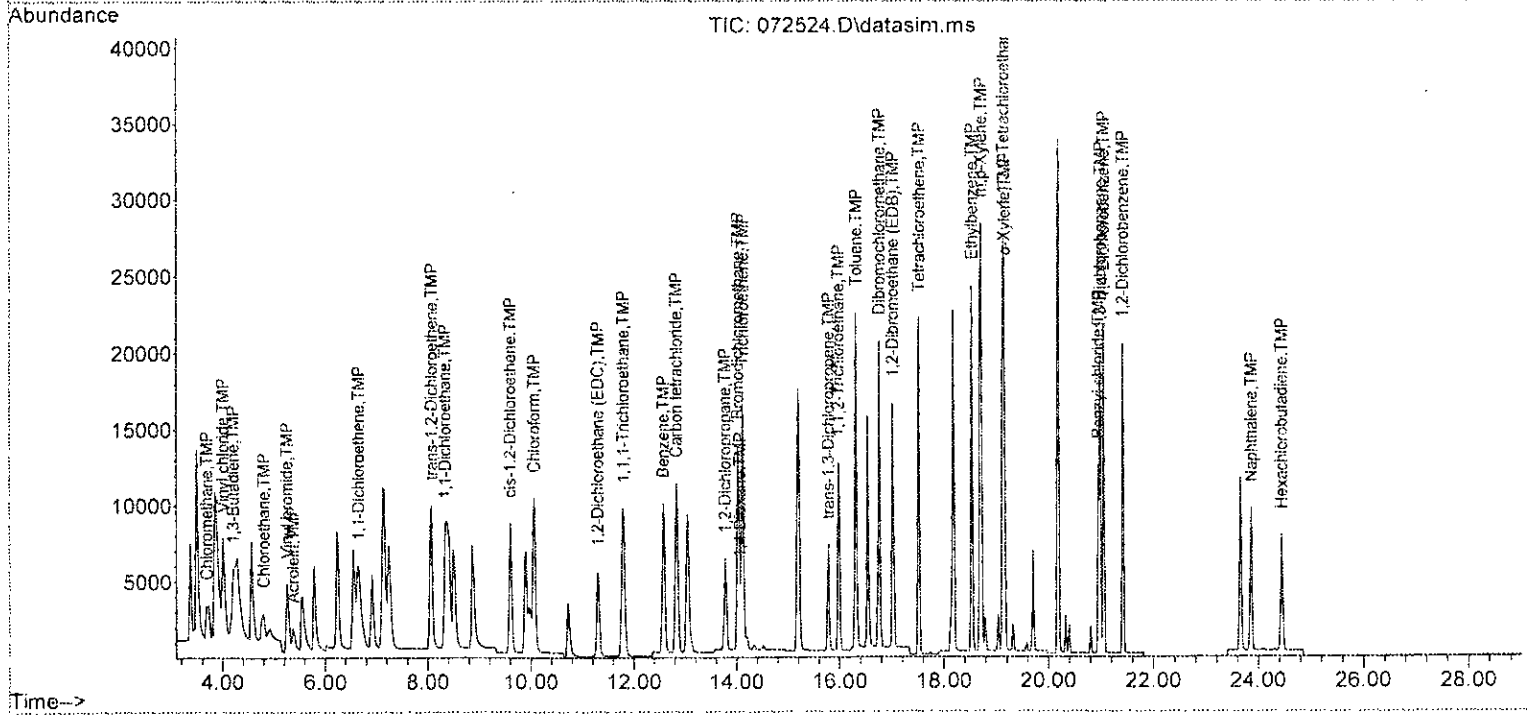
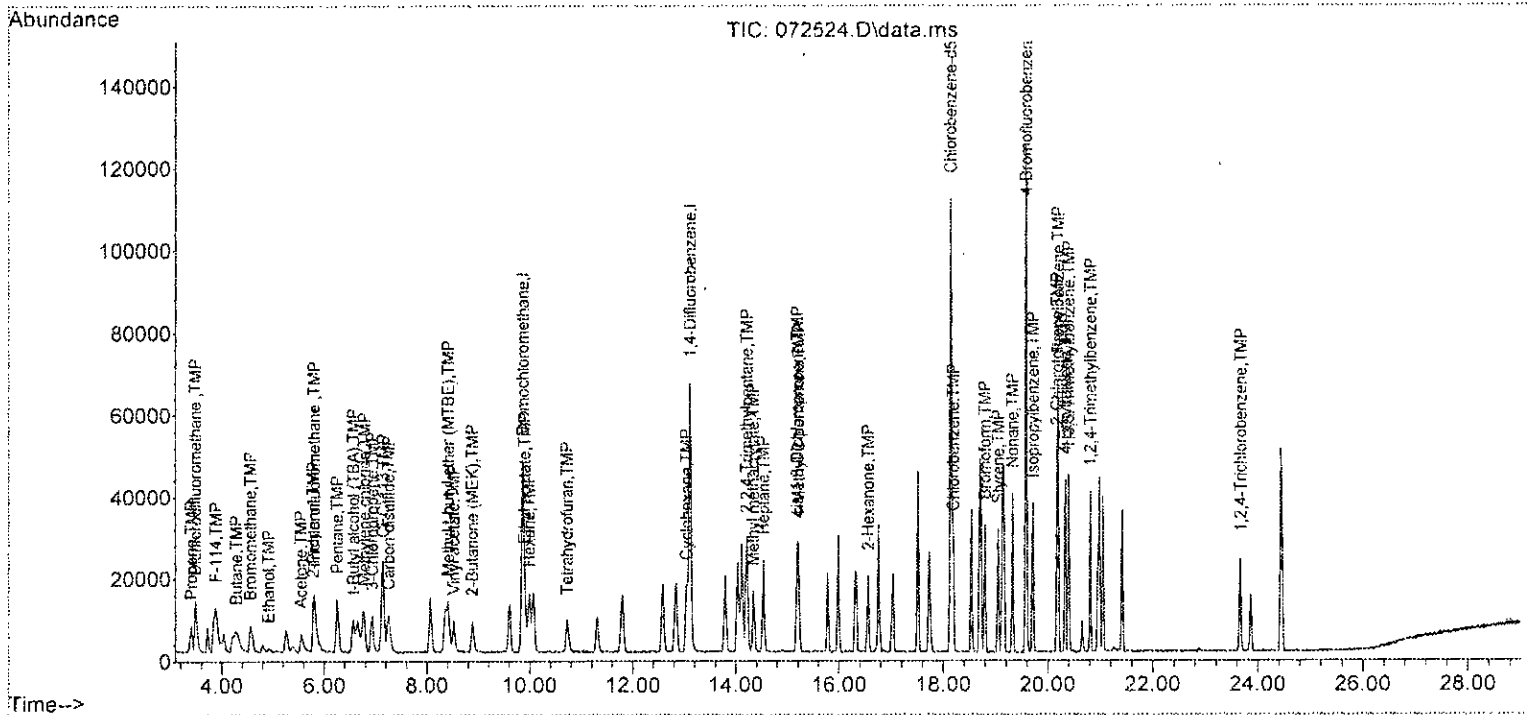
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	5110	2.719	ppbv	91
42] 2,2,4-Trimethylpentane	14.21	57	40908	2.775	ppbv	91
43] Methyl methacrylate	14.33	41	11681	2.714	ppbv #	94
44] Heptane	14.53	43	14451	2.734	ppbv	98
45] Bromodichloromethane	14.02	83	22927	2.836	ppbv	100
46] Trichloroethene	14.12	95	13948	2.697	ppbv	97
47] cis-1,3-Dichloropropene	15.18	75	15183	2.811	ppbv	97
48] 4-Methyl-2-pentanone	15.21	100	746	2.284	ppbv #	54
49] trans-1,3-Dichloropropene	15.78	75	13554	2.778	ppbv	93
50] Toluene	16.31	92	16739m	2.733	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	12810m	2.747	ppbv	
52] 2-Hexanone	16.56	43	19169	2.854	ppbv	93
53] Tetrachloroethene	17.52	164	10595	2.922	ppbv	93
54] Dibromochloromethane	16.76	129	20868	2.807	ppbv	93
55] 1,2-Dibromoethane (EDB)	17.01	107	19909m	2.713	ppbv	
57] Chlorobenzene	18.19	112	20594	2.823	ppbv	98
58] Ethylbenzene	18.53	91	34071	2.773	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	28678	2.776	ppbv	92
60] Nonane	19.32	43	17002	2.836	ppbv	98
61] Isopropylbenzene	19.72	105	30848	2.910	ppbv	98
62] 2-Chlorotoluene	20.17	126	8157	2.972	ppbv	89
63] Propylbenzene	20.19	91	62659	2.831	ppbv	97
64] 4-Ethyltoluene	20.33	105	30054	2.965	ppbv	97
65] m,p-Xylene	18.70	106	22656	5.467	ppbv	98
66] o-Xylene	19.15	106	10778	2.852	ppbv	92
67] Styrene	19.05	104	15092	2.882	ppbv	99
68] Bromoform	18.80	173	17397	2.849	ppbv	98
70] Benzyl chloride	20.95	91	18457	2.904	ppbv	91
71] 1,3,5-Trimethylbenzene	20.39	105	27194	3.008	ppbv	96
72] 1,2,4-Trimethylbenzene	20.81	105	24343	3.065	ppbv	97
73] 1,3-Dichlorobenzene	20.99	146	19190	2.894	ppbv	90
74] 1,4-Dichlorobenzene	21.05	146	17623	2.869	ppbv	92
75] 1,2-Dichlorobenzene	21.41	146	18424	2.884	ppbv	96
76] 1,2,4-Trichlorobenzene	23.67	180	10699	2.655	ppbv	94
77] Naphthalene	23.86	128	18967	2.554	ppbv	99
78] Hexachlorobutadiene	24.44	225	16067m	2.834	ppbv	

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



Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



## Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
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Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	2.500	2.791	-11.6	100	0.00
3 TMP	Dichlorodifluoromethane	2.500	2.915	-16.6	100	0.00
4 TMP	Chloromethane	2.500	2.594	-3.8	100	0.00
5 TMP	F-114	2.500	3.071	-22.8	100	0.00
6 TMP	Vinyl chloride	2.500	2.879	-15.2	100	0.00
7 TMP	1,3-Butadiene	2.500	2.783	-11.3	100	0.00
8 TMP	Butane	2.500	2.819	-12.8	100	0.00
9 TMP	Bromomethane	2.500	2.799	-12.0	100	0.00
10 TMP	Chloroethane	2.500	2.813	-12.5	101	0.00
11 TMP	Vinyl bromide	2.500	2.845	-13.8	100	0.00
12 TMP	Ethanol	2.500	3.010	-20.4	100	0.00
13 TMP	Acrolein	2.500	2.681	-7.2	101	0.00
14 TMP	Pentane	2.500	2.798	-11.9	100	0.00
15 TMP	Trichlorofluoromethane	2.500	2.995	-19.8	100	0.00
16 TMP	Acetone	2.500	2.608	-4.3	100	0.00
17 TMP	2-Propanol	2.500	2.461	1.6	100	0.00
18 TMP	1,1-Dichloroethene	2.500	2.769	-10.8	100	0.00
19 TMP	trans-1,2-Dichloroethene	2.500	2.772	-10.9	100	0.00
20 TMP	Methylene chloride	2.500	3.017	-20.7	100	0.00
21 TMP	t-Butyl alcohol (TBA)	2.500	2.829	-13.2	100	0.00
22 TMP	3-Chloropropene	2.500	3.015	-20.6	100	0.00
23 TMP	CFC-113	2.500	2.886	-15.4	100	0.00
24 TMP	Carbon disulfide	2.500	2.804	-12.2	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	2.500	2.743	-9.7	100	0.00
26 TMP	Vinyl acetate	2.500	2.785	-11.4	100	0.00
27 TMP	1,1-Dichloroethane	2.500	2.812	-12.5	100	0.00
28 TMP	cis-1,2-Dichloroethene	2.500	2.686	-7.4	100	0.00
29 TMP	Hexane	2.500	2.791	-11.6	100	0.00
30 TMP	Chloroform	2.500	2.771	-10.8	100	0.00
31 TMP	Ethyl acetate	2.500	2.771	-10.8	100	0.00
32 TMP	Tetrahydrofuran	2.500	2.819	-12.8	100	0.00
33 TMP	2-Butanone (MEK)	2.500	2.691	-7.6	100	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.500	2.857	-14.3	106	0.00
35 TMP	1,1,1-Trichloroethane	2.500	2.828	-13.1	100	0.00
36 TMP	Carbon tetrachloride	2.500	2.854	-14.2	100	0.00
37 TMP	Benzene	2.500	2.733	-9.3	102	0.00
38 TMP	Cyclohexane	2.500	2.783	-11.3	100	0.00
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	2.500	2.786	-11.4	102	0.00
41 TMP	1,4-Dioxane	2.500	2.719	-8.8	100	0.00
42 TMP	2,2,4-Trimethylpentane	2.500	2.775	-11.0	100	0.00
43 TMP	Methyl methacrylate	2.500	2.714	-8.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.734	-9.4	100	0.00
45 TMP Bromodichloromethane	2.500	2.836	-13.4	100	0.00
46 TMP Trichloroethene	2.500	2.697	-7.9	100	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.811	-12.4	100	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.284	8.6	100	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.778	-11.1	100	0.00
50 TMP Toluene	2.500	2.733	-9.3	101	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.747	-9.9	100	0.00
52 TMP 2-Hexanone	2.500	2.854	-14.2	100	0.00
53 TMP Tetrachloroethene	2.500	2.922	-16.9	103	0.00
54 TMP Dibromochloromethane	2.500	2.807	-12.3	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.713	-8.5	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	2.500	2.823	-12.9	100	0.00
58 TMP Ethylbenzene	2.500	2.773	-10.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.776	-11.0	100	0.00
60 TMP Nonane	2.500	2.836	-13.4	100	0.00
61 TMP Isopropylbenzene	2.500	2.910	-16.4	100	0.00
62 TMP 2-Chlorotoluene	2.500	2.972	-18.9	100	0.00
63 TMP Propylbenzene	2.500	2.831	-13.2	100	0.00
64 TMP 4-Ethyltoluene	2.500	2.965	-18.6	100	0.00
65 TMP m,p-Xylene	5.000	5.467	-9.3	100	0.00
66 TMP o-Xylene	2.500	2.852	-14.1	100	0.00
67 TMP Styrene	2.500	2.882	-15.3	100	0.00
68 TMP Bromoform	2.500	2.849	-14.0	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.251	-2.5	100	0.00
70 TMP Benzyl chloride	2.500	2.904	-16.2	100	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	3.008	-20.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	3.065	-22.6	100	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.894	-15.8	100	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.869	-14.8	100	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.884	-15.4	100	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.655	-6.2	100	0.00
77 TMP Naphthalene	2.500	2.554	-2.2	100	0.00
78 TMP Hexachlorobutadiene	2.500	2.834	-13.4	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP	Propene	1.221	1.363	-11.6	100	0.00
3 TMP	Dichlorodifluoromethane	4.917	5.733	-16.6	100	0.00
4 TMP	Chloromethane	1.713	1.778	-3.8	100	0.00
5 TMP	F-114	4.288	5.267	-22.8	100	0.00
6 TMP	Vinyl chloride	1.937	2.230	-15.1	100	0.00
7 TMP	1,3-Butadiene	1.242	1.382	-11.3	100	0.00
8 TMP	Butane	2.483	2.800	-12.8	100	0.00
9 TMP	Bromomethane	1.711	1.916	-12.0	100	0.00
10 TMP	Chloroethane	0.689	0.776	-12.6	101	0.00
11 TMP	Vinyl bromide	1.725	1.963	-13.8	100	0.00
12 TMP	Ethanol	0.543	0.654	-20.4	100	0.00
13 TMP	Acrolein	0.729	0.782	-7.3	101	0.00
14 TMP	Pentane	2.839	3.177	-11.9	100	0.00
15 TMP	Trichlorofluoromethane	4.796	5.745	-19.8	100	0.00
16 TMP	Acetone	0.670	0.699	-4.3	100	0.00
17 TMP	2-Propanol	2.930	2.884	1.6	100	0.00
18 TMP	1,1-Dichloroethene	1.641	1.817	-10.7	100	0.00
19 TMP	trans-1,2-Dichloroethene	1.625	1.802	-10.9	100	0.00
20 TMP	Methylene chloride	1.604	1.935	-20.6	100	0.00
21 TMP	t-Butyl alcohol (TBA)	2.544	2.878	-13.1	100	0.00
22 TMP	3-Chloropropene	2.076	2.503	-20.6	100	0.00
23 TMP	CFC-113	3.525	4.069	-15.4	100	0.00
24 TMP	Carbon disulfide	5.324	5.970	-12.1	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	3.467	3.803	-9.7	100	0.00
26 TMP	Vinyl acetate	3.863	4.304	-11.4	100	0.00
27 TMP	1,1-Dichloroethane	3.597	4.046	-12.5	100	0.00
28 TMP	cis-1,2-Dichloroethene	1.774	1.906	-7.4	100	0.00
29 TMP	Hexane	2.181	2.435	-11.6	100	0.00
30 TMP	Chloroform	4.186	4.640	-10.8	100	0.00
31 TMP	Ethyl acetate	3.859	4.277	-10.8	100	0.00
32 TMP	Tetrahydrofuran	1.822	2.055	-12.8	100	0.00
33 TMP	2-Butanone (MEK)	0.597	0.643	-7.7	100	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.835	3.240	-14.3	106	0.00
35 TMP	1,1,1-Trichloroethane	3.417	3.865	-13.1	100	0.00
36 TMP	Carbon tetrachloride	3.530	4.030	-14.2	100	0.00
37 TMP	Benzene	5.604	6.126	-9.3	102	0.00
38 TMP	Cyclohexane	1.400	1.559	-11.4	100	0.00
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.619	0.690	-11.5	102	0.00
41 TMP	1,4-Dioxane	0.233	0.254	-9.0	100	0.00
42 TMP	2,2,4-Trimethylpentane	1.831	2.032	-11.0	100	0.00
43 TMP	Methyl methacrylate	0.534	0.580	-8.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072524.D  
 Acq On : 26 Jul 2023 3:21 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:03 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.718	-9.5	100	0.00
45 TMP Bromodichloromethane	1.004	1.139	-13.4	100	0.00
46 TMP Trichloroethene	0.642	0.693	-7.9	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.754	-12.4	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.037	9.8	100	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.673	-11.1	100	0.00
50 TMP Toluene	0.761	0.832	-9.3	101	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.636	-9.8	100	0.00
52 TMP 2-Hexanone	0.834	0.952	-14.1	100	0.00
53 TMP Tetrachloroethene	0.450	0.526	-16.9	103	0.00
54 TMP Dibromochloromethane	0.923	1.037	-12.4	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.989	-8.6	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.207	-12.9	100	0.00
58 TMP Ethylbenzene	1.800	1.997	-10.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.681	-11.0	100	0.00
60 TMP Nonane	0.879	0.996	-13.3	100	0.00
61 TMP Isopropylbenzene	1.553	1.808	-16.4	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.478	-18.9	100	0.00
63 TMP Propylbenzene	3.242	3.672	-13.3	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.761	-18.6	100	0.00
65 TMP m,p-Xylene	0.607	0.664	-9.4	100	0.00
66 TMP o-Xylene	0.554	0.632	-14.1	100	0.00
67 TMP Styrene	0.767	0.884	-15.3	100	0.00
68 TMP Bromoform	0.895	1.020	-14.0	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.760	-2.6	100	0.00
70 TMP Benzyl chloride	0.931	1.082	-16.2	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.594	-20.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.427	-22.6	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	1.125	-15.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	1.033	-14.8	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	1.080	-15.4	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.627	-6.3	100	0.00
77 TMP Naphthalene	1.053	1.112	-5.6	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.942	-13.4	100	0.00

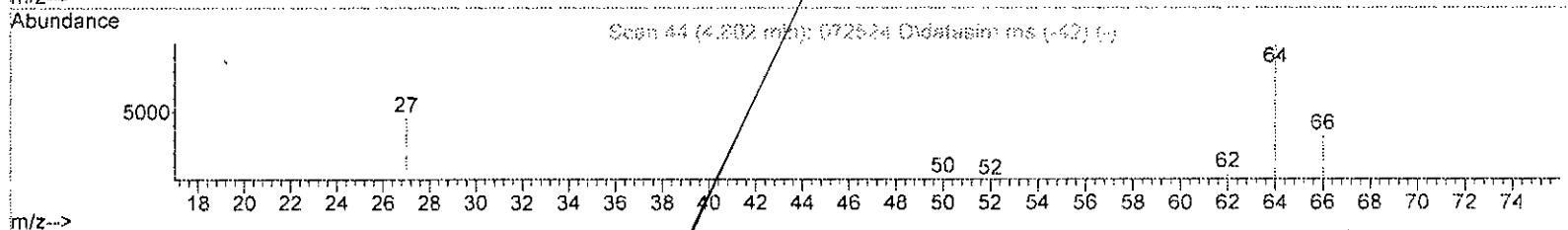
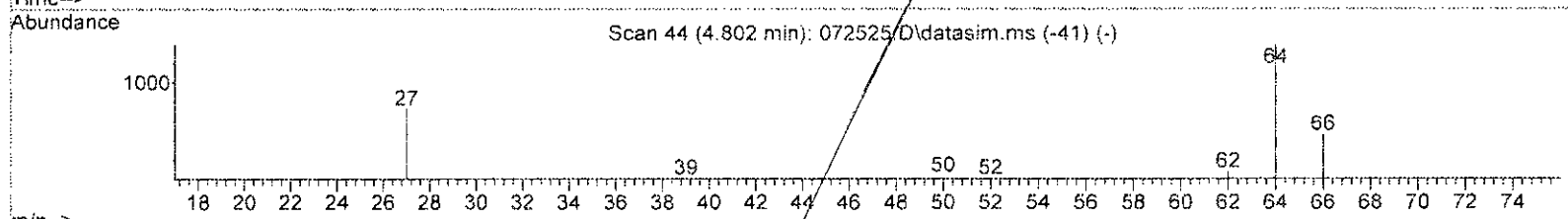
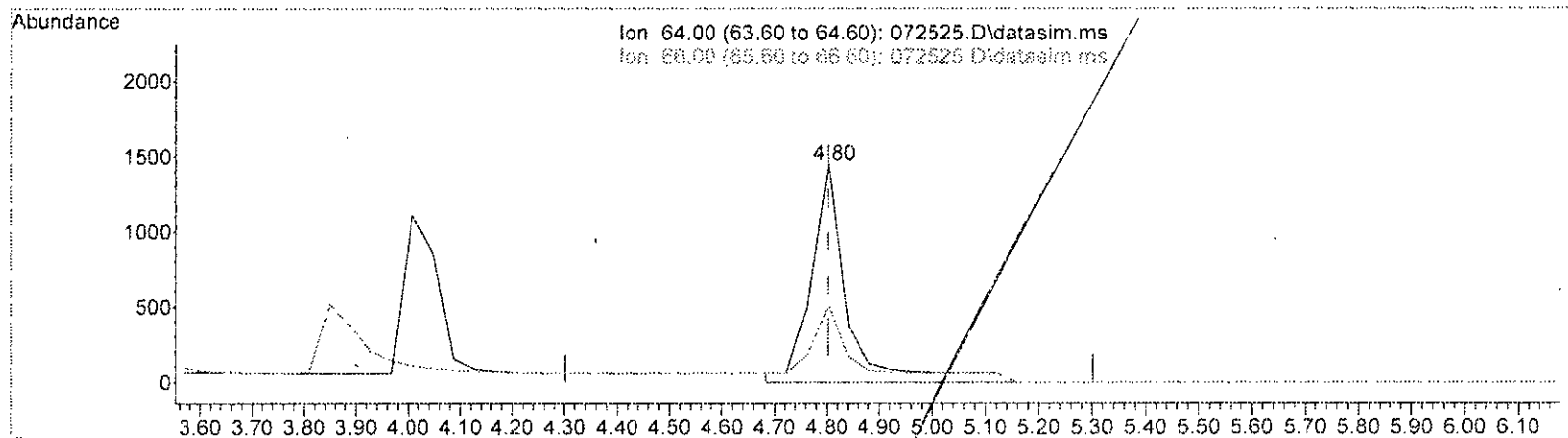
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 5.168 ppbv

response 6596

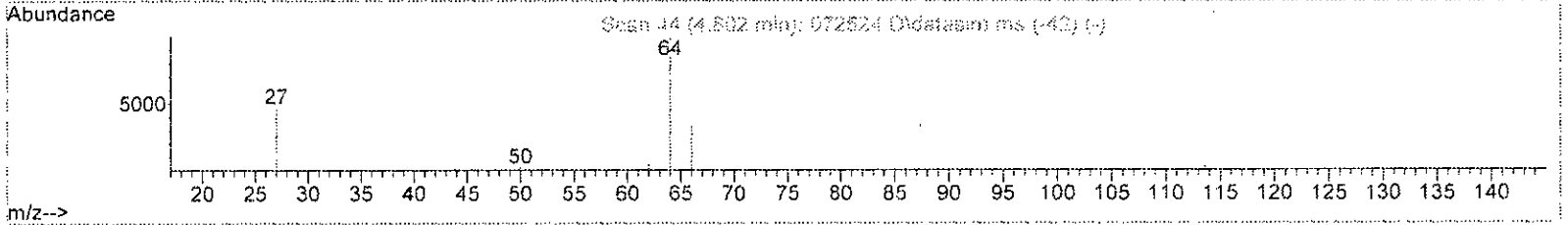
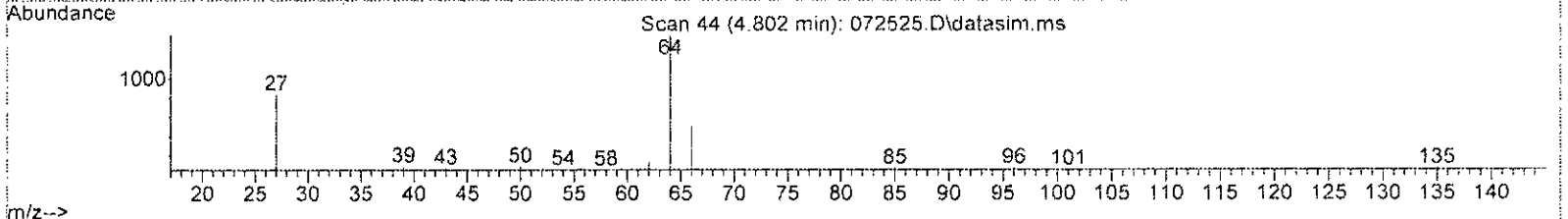
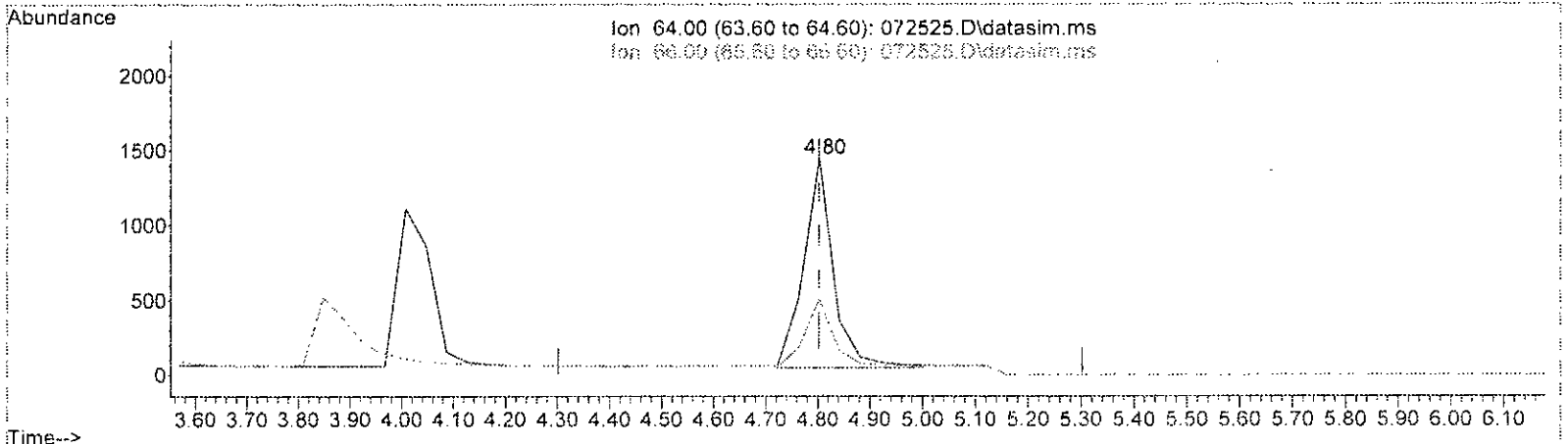
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	35.27
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072525.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 4.303 ppbv m

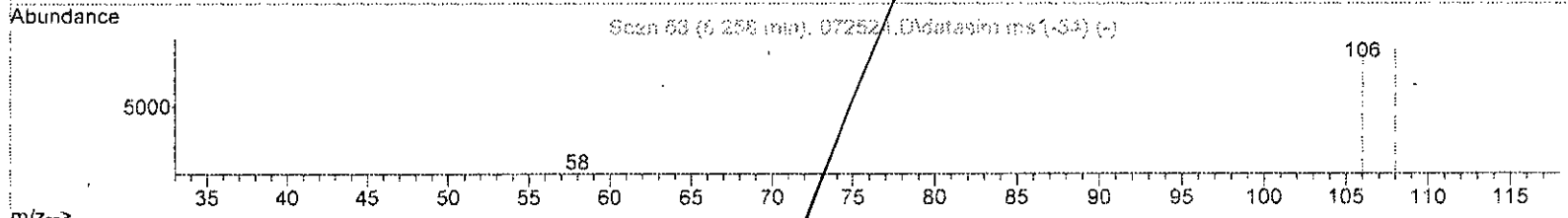
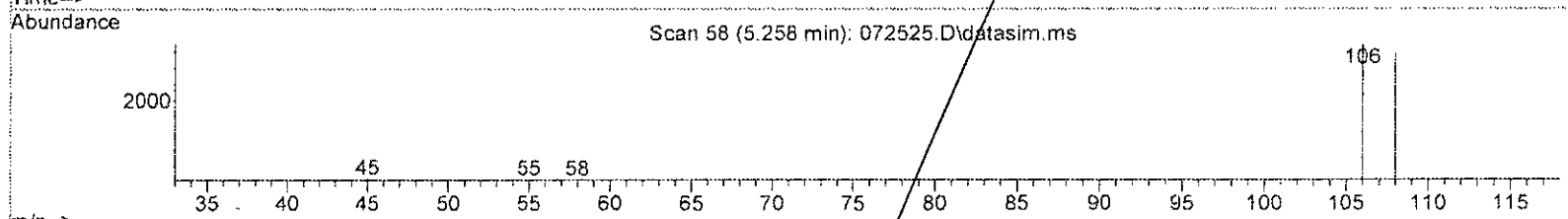
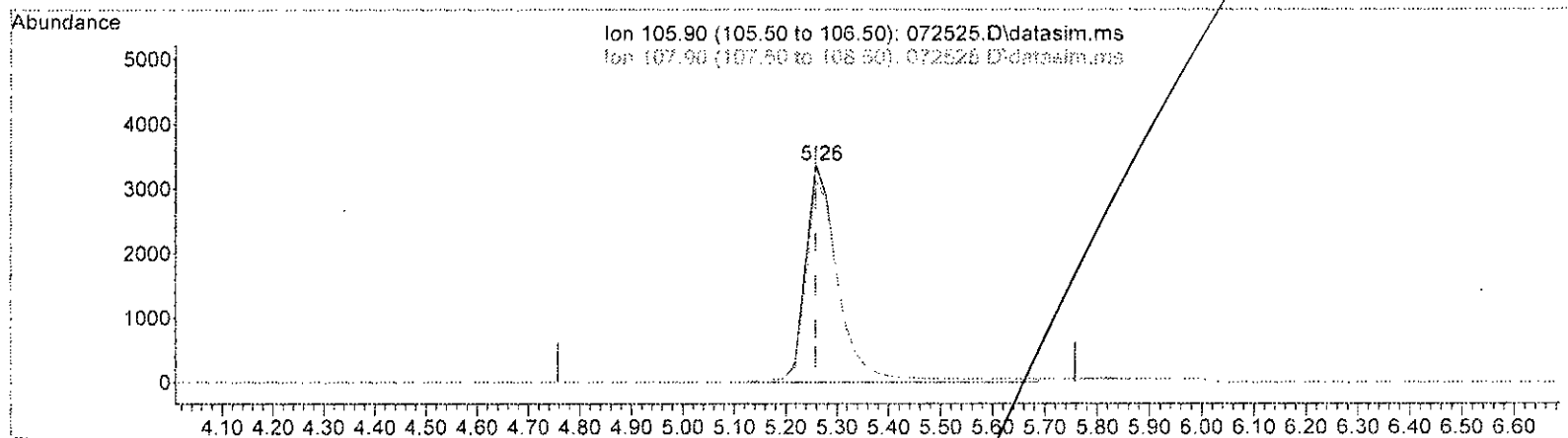
response	5493	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	35.27
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 5.125 ppbv

response 16371

Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.62
0.00	0.00	0.00
0.00	0.00	0.00

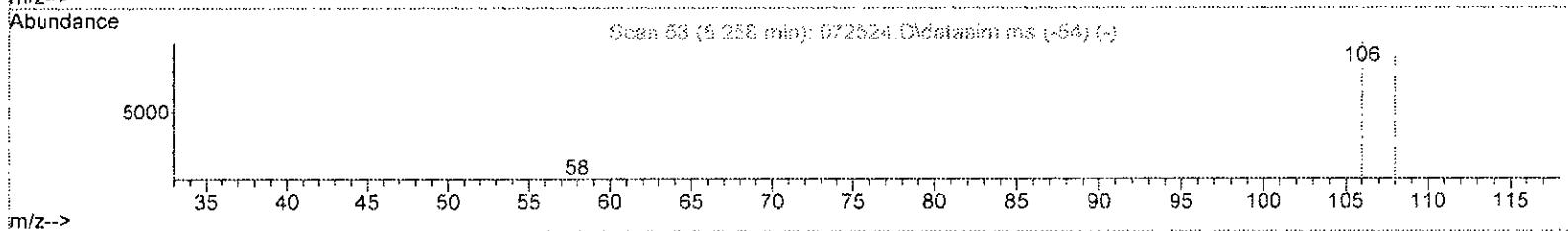
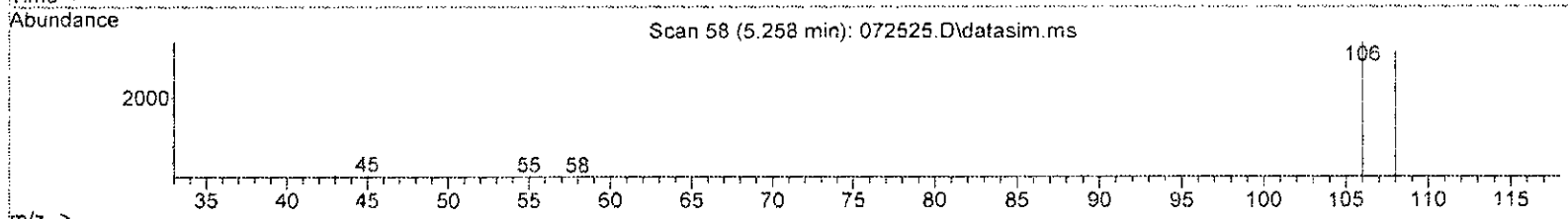
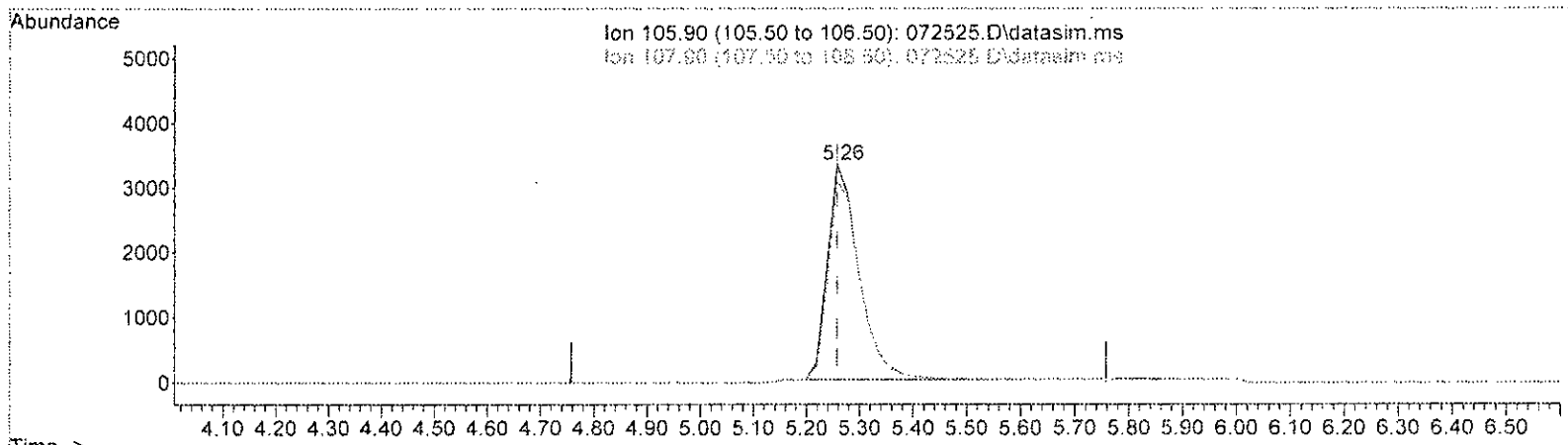
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 4.264 ppbv m

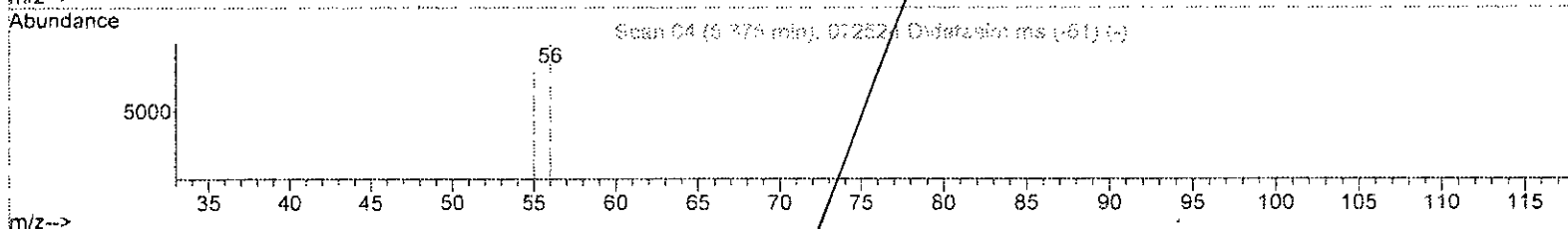
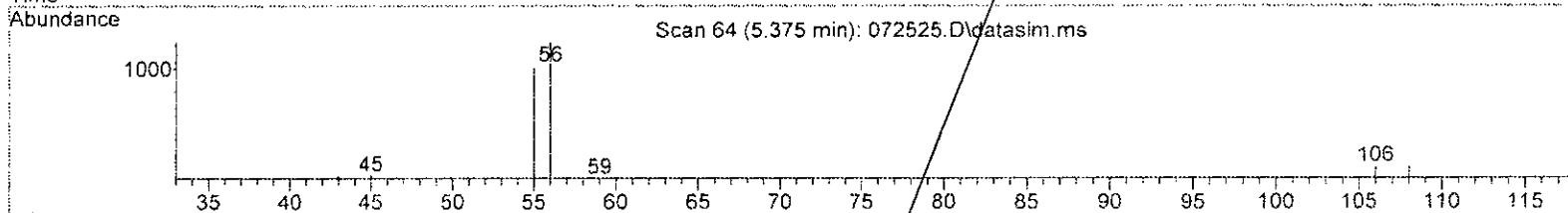
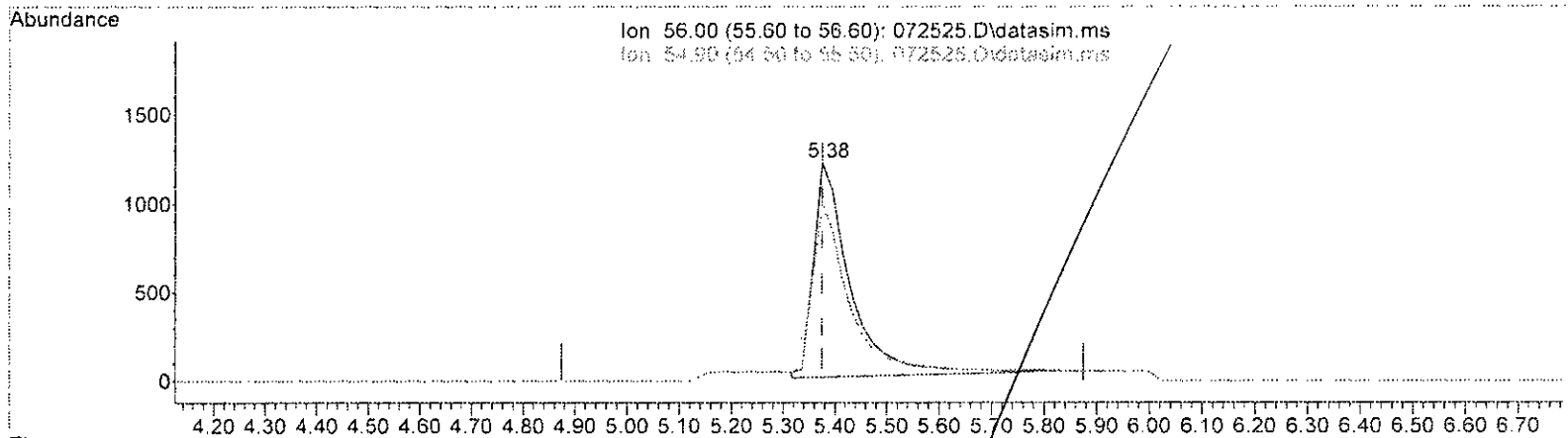
response	13621
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 113.73#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature: 2/3/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(13) Acrolein (TMP)

5.375min (+ 0.000) 4.462 ppbv

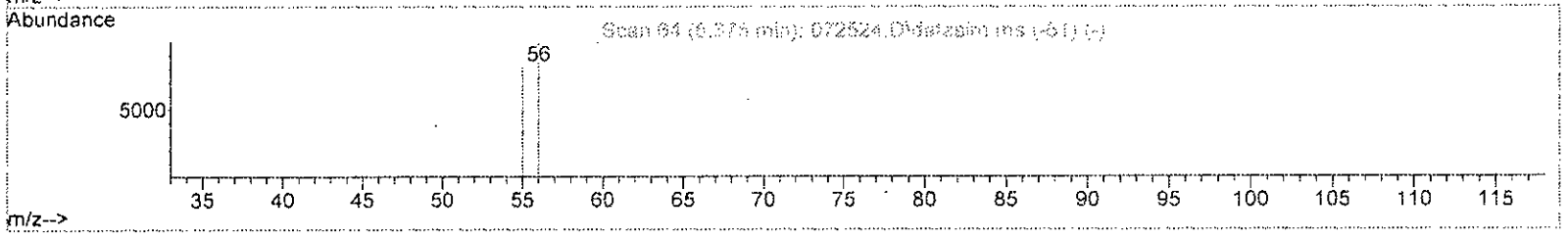
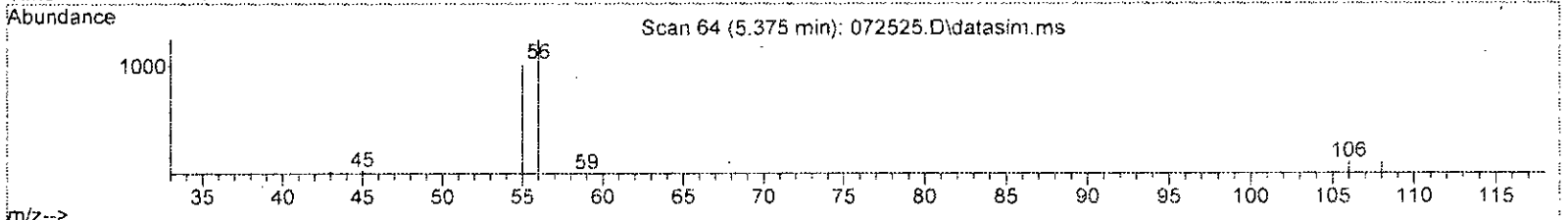
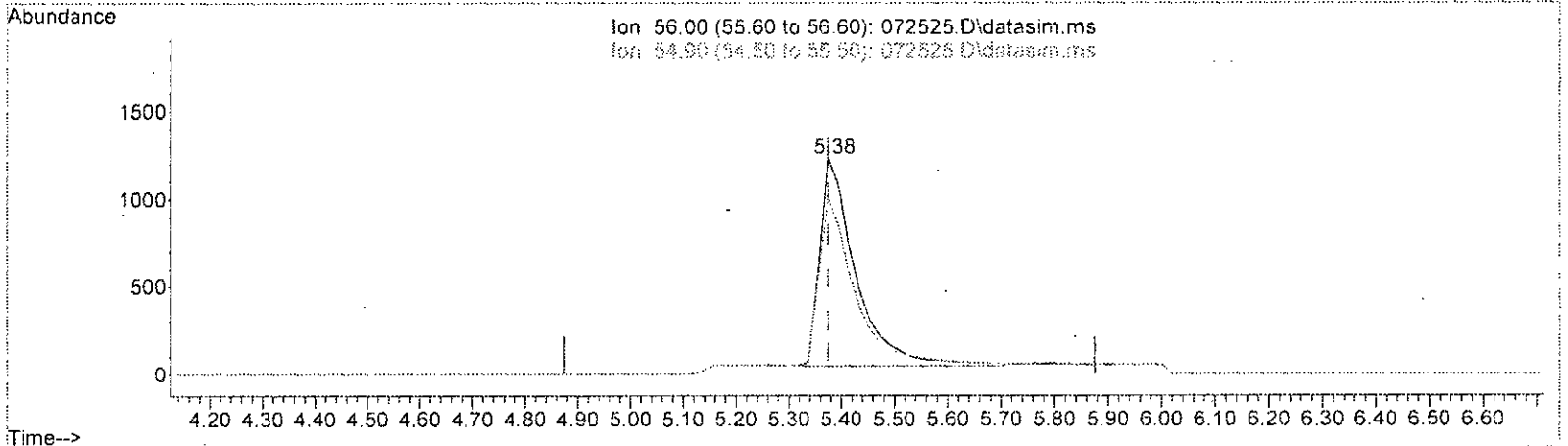
response	6020	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	81.13
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature and date: 2/3/2*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 5S method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072525.D\data.ms

(13) Acrolein (TMP)

5.375min (+ 0.000) 4.160 ppbv m

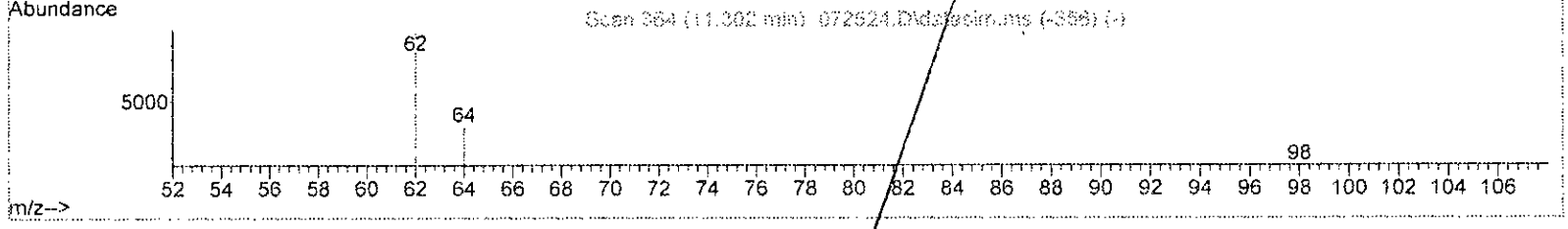
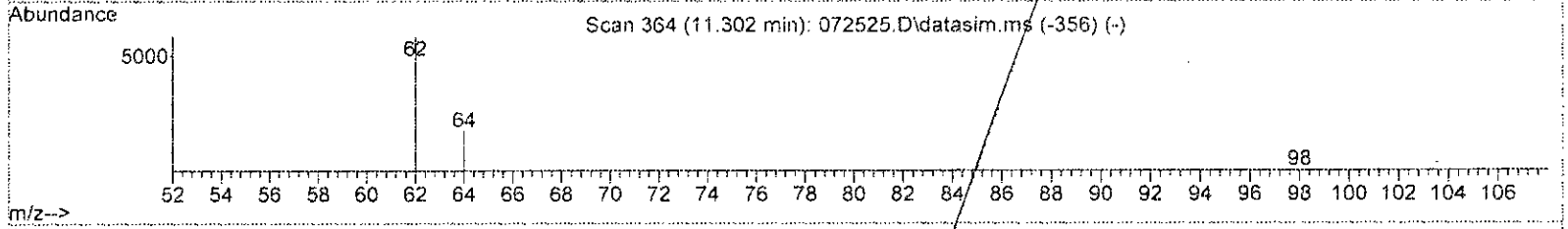
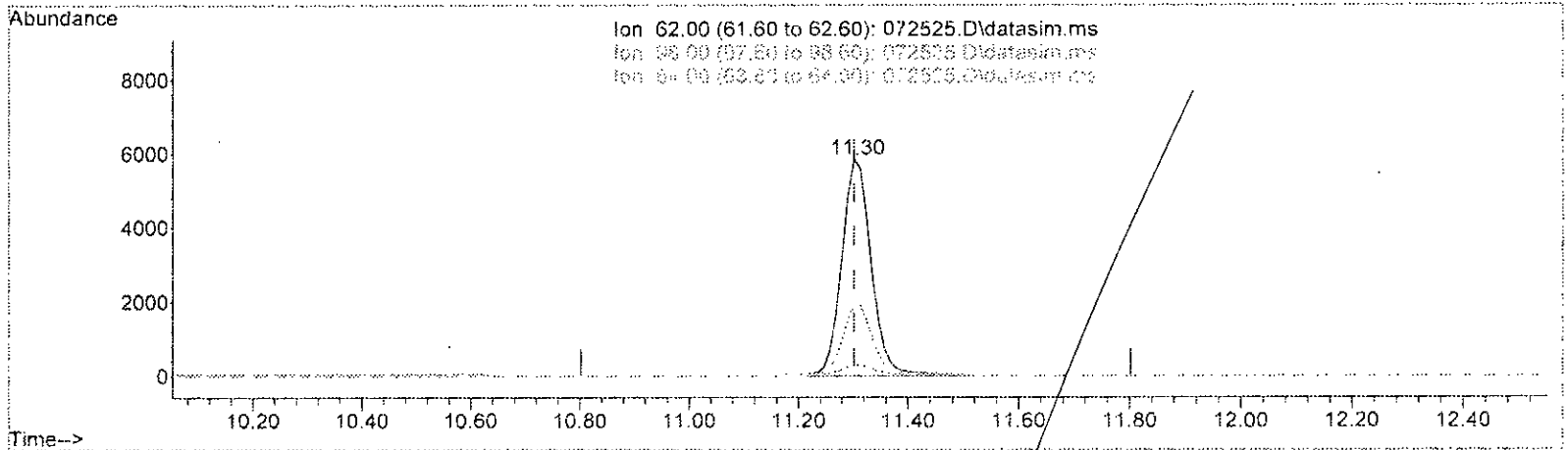
response	5613	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	87.01
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 4.170 ppbv

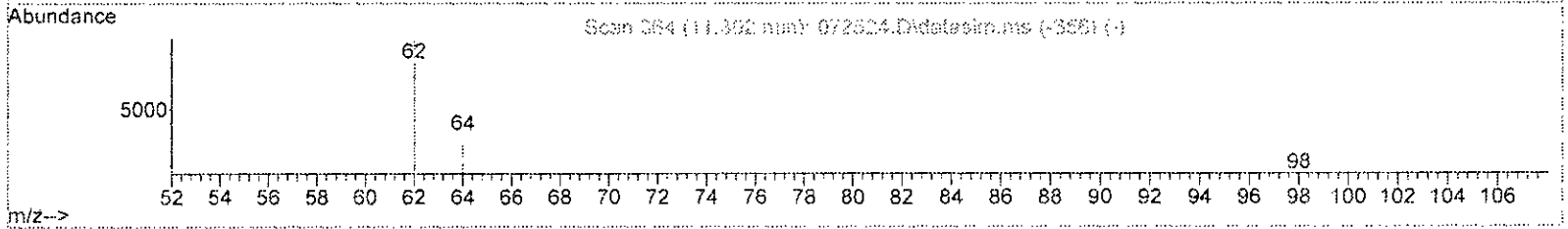
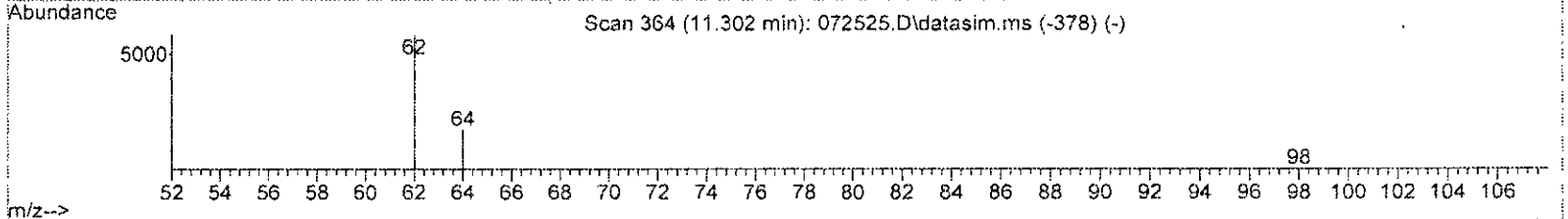
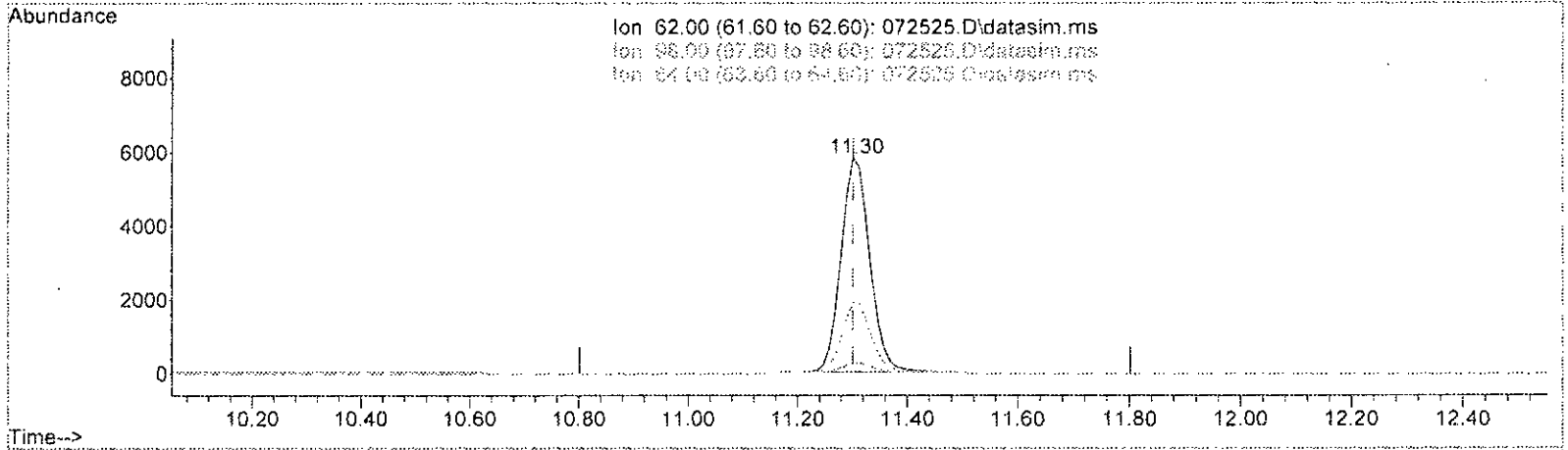
response	21887	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.95
64.00	33.00	32.77
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072525.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 4.009 ppbv m

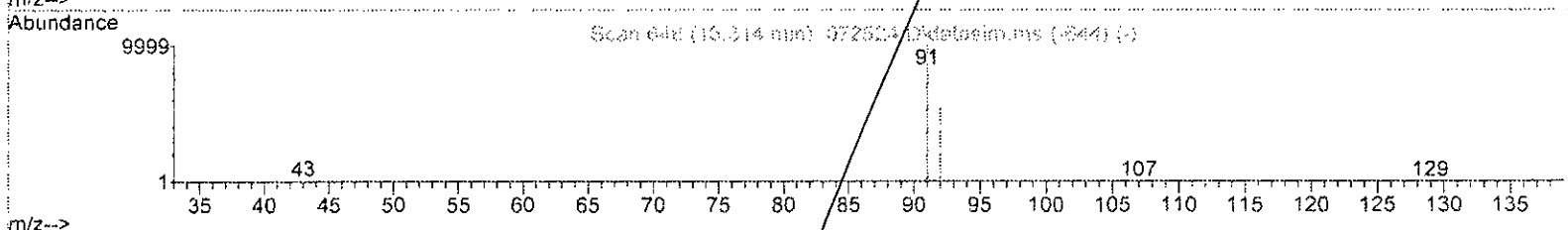
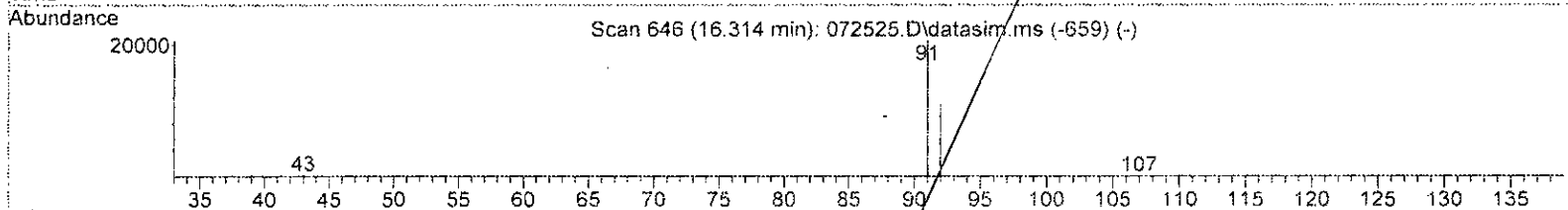
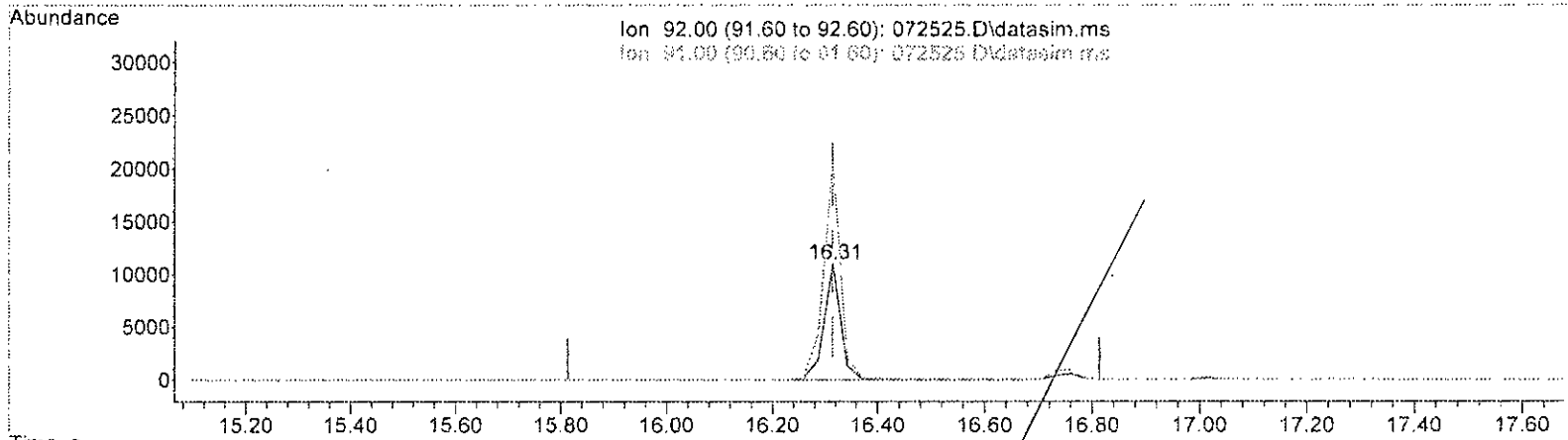
response	21039
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 4.95
64.00	33.00 32.77
0.00	0.00 0.00

*Handwritten signature: h 7/27/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072525.D\data.ms

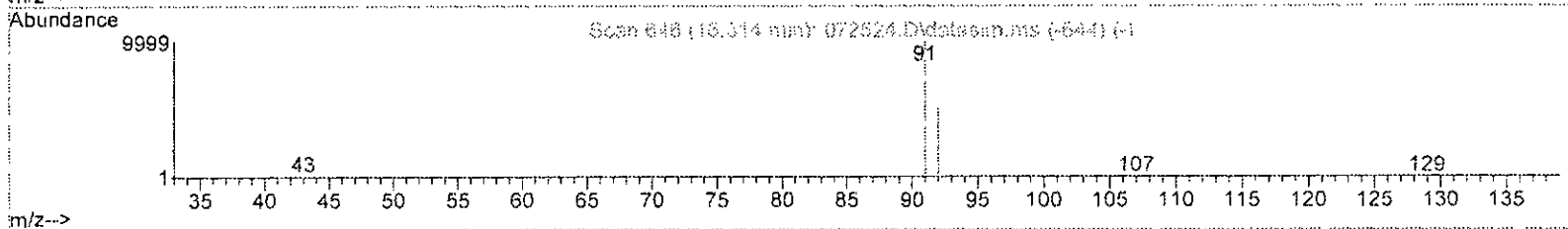
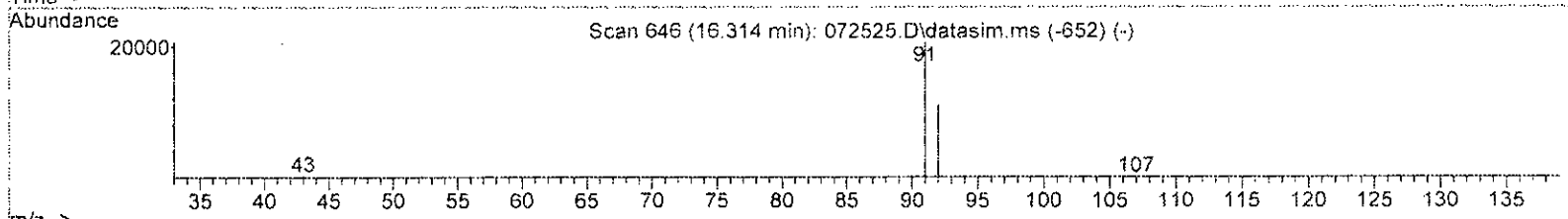
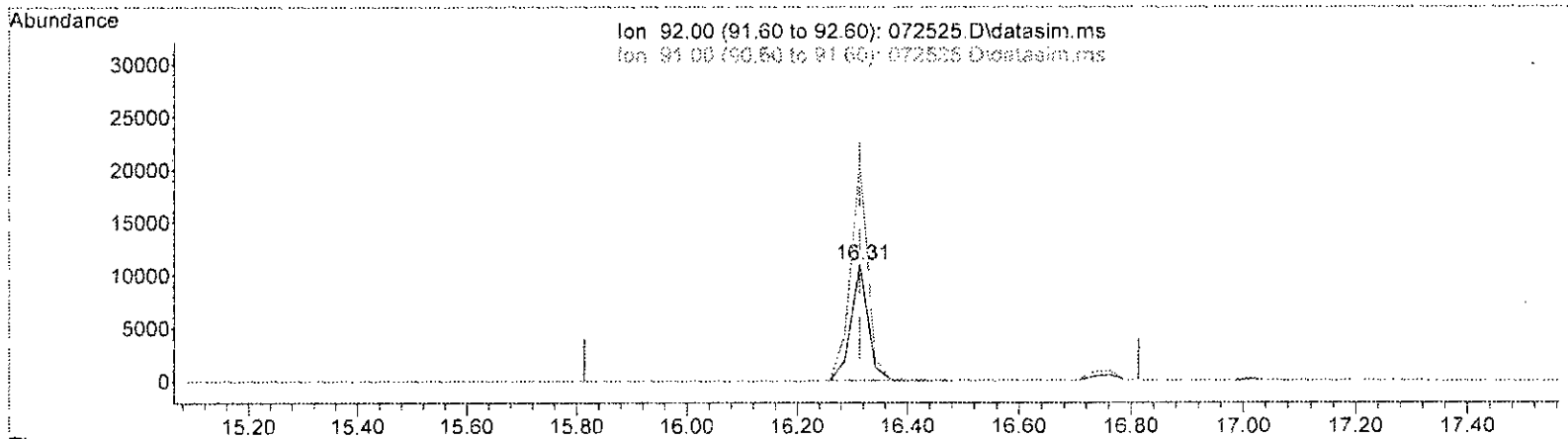
(50) Toluene (TMP)		
16.314min (+ 0.000)	4.200	ppbv
response	24760	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	187.72
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

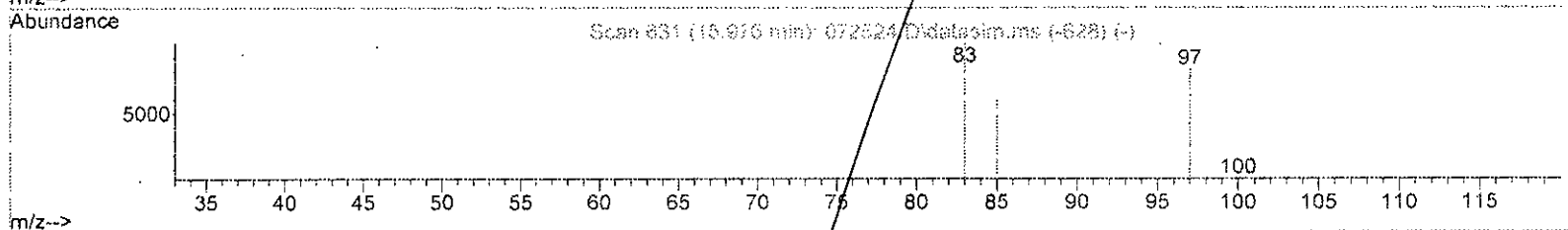
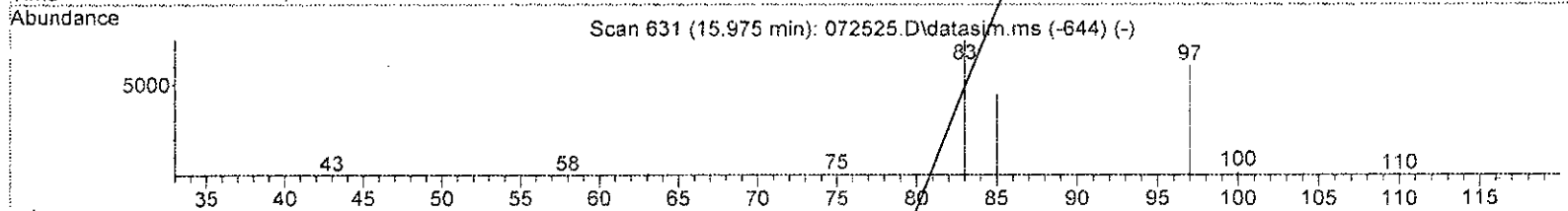
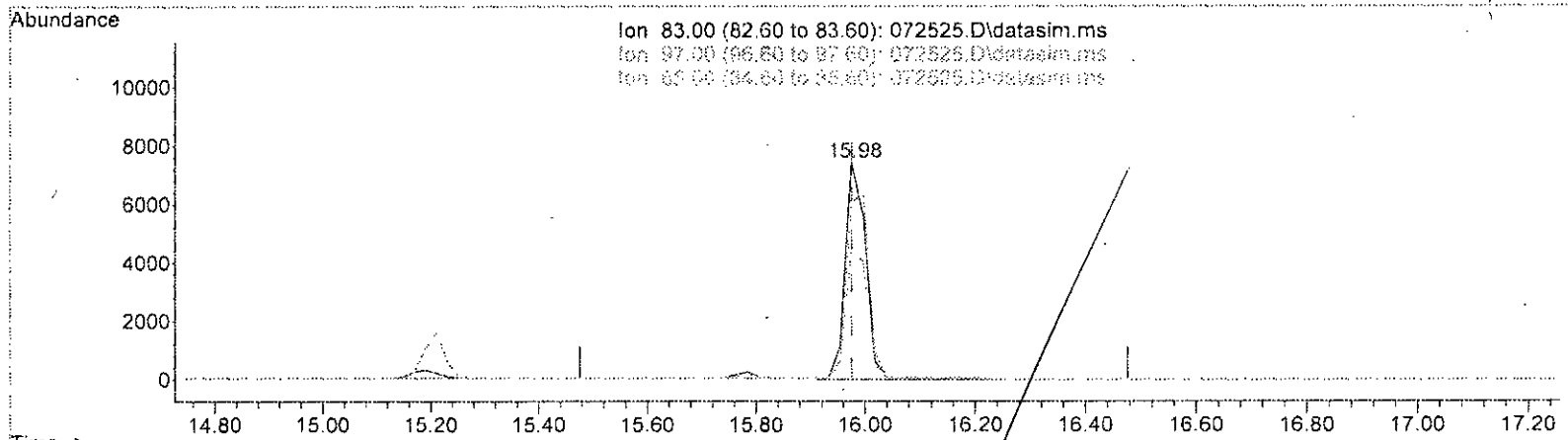
(50)	Toluene (TMP)		
16.314min	(+ 0.000)	4.068	ppbv m
response	23983		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	187.72	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(51) 1,1,2-Trichloroethane (TME)  
 15.975min (-0.001) 4.453 ppbv

response	19992
Ion	Exp% Act%
83.00	100.00 100.00
97.00	81.80 81.67
85.00	60.50 59.44
0.00	0.00 0.00

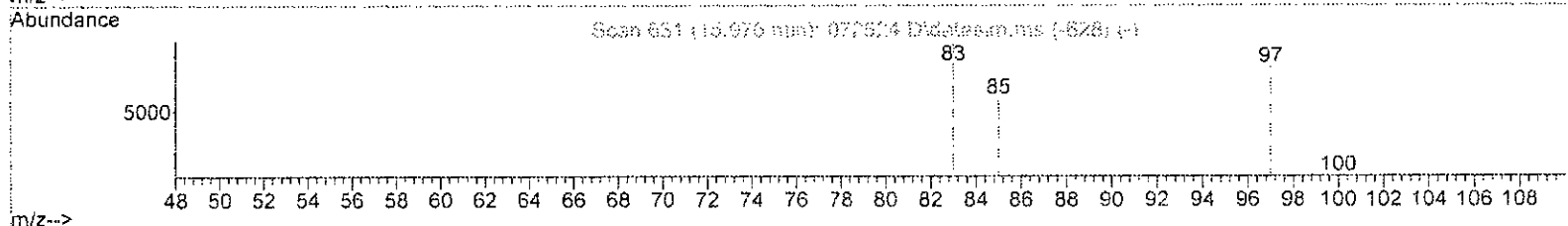
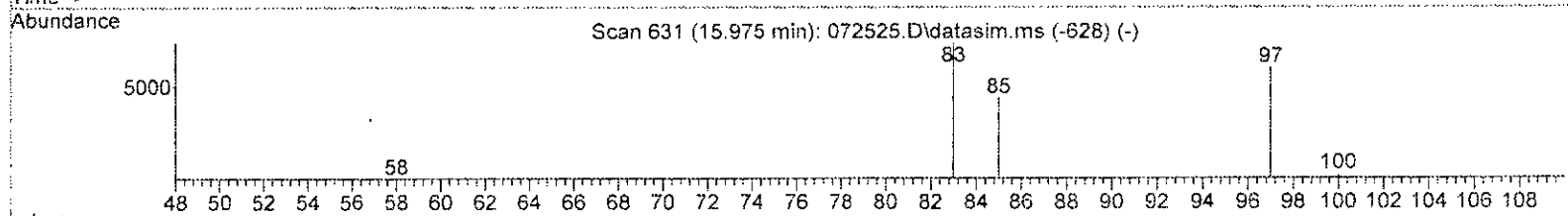
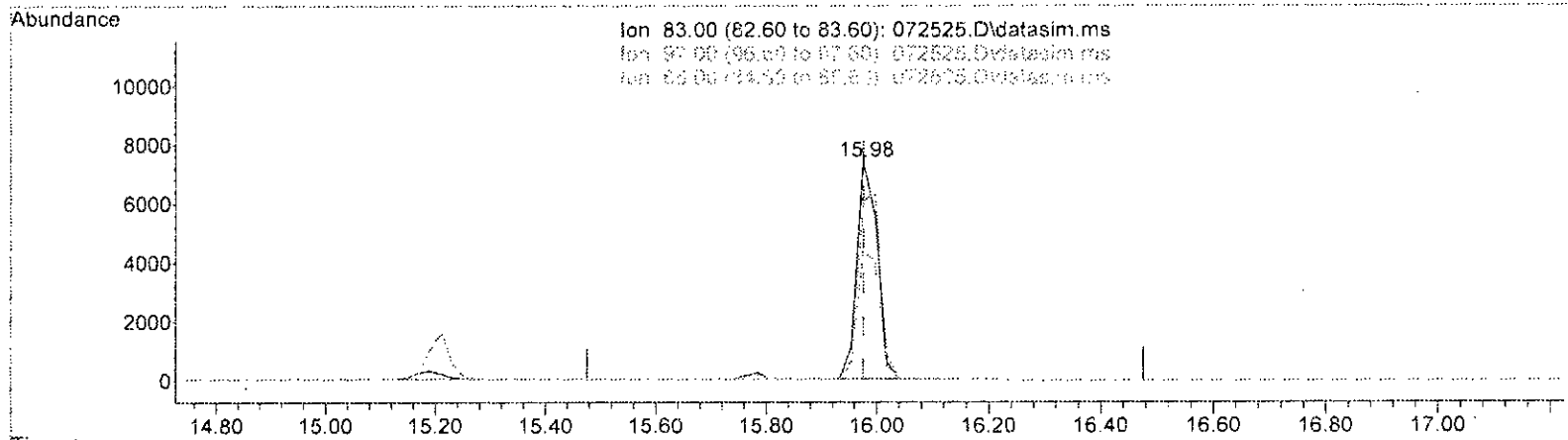
*Handwritten signature: H. H. H.*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M



TIC: 072525.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.975min (-0.001) 4.160 ppbv m

response 18675

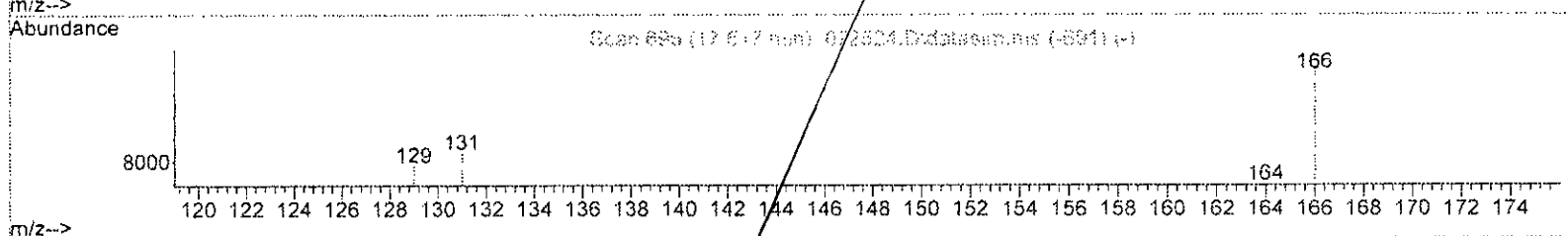
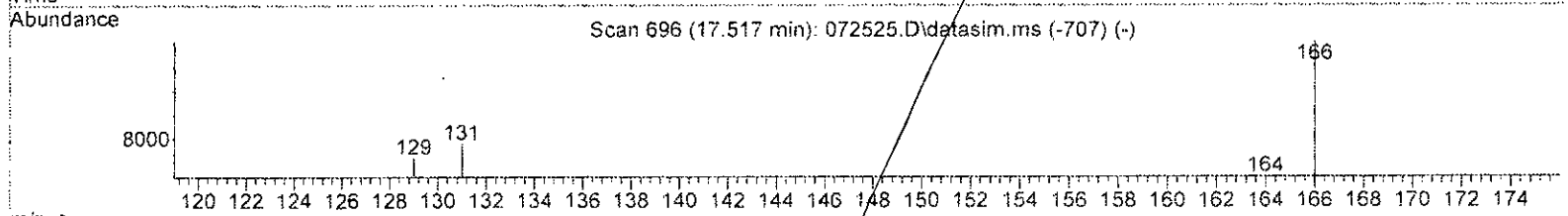
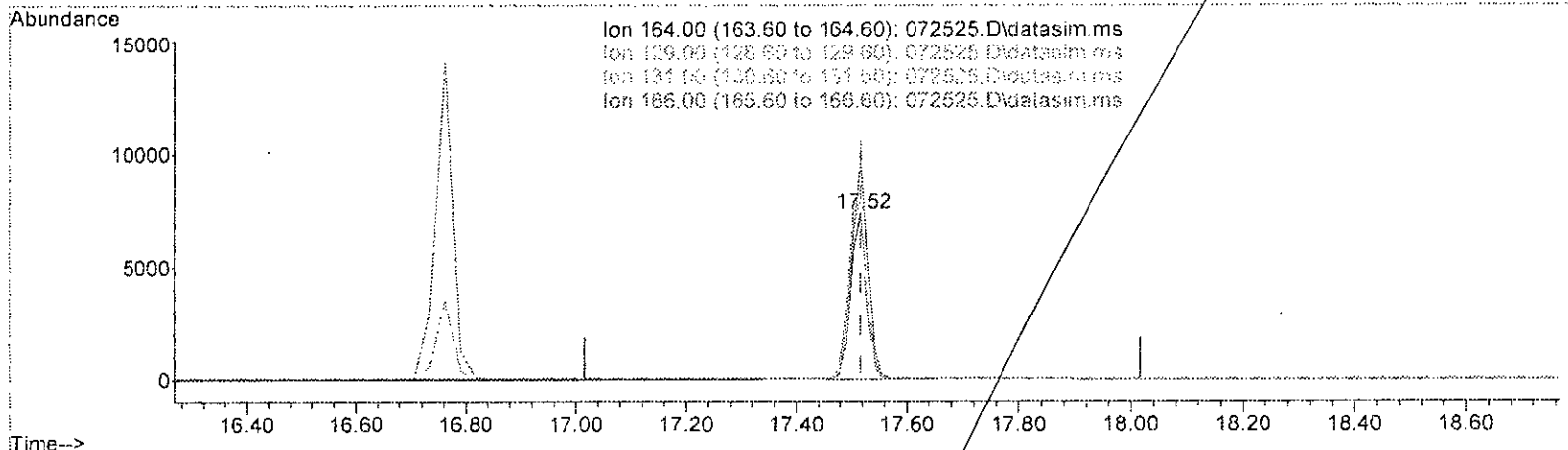
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	81.67
85.00	60.50	59.44
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (-0.000) 4.361 ppbv

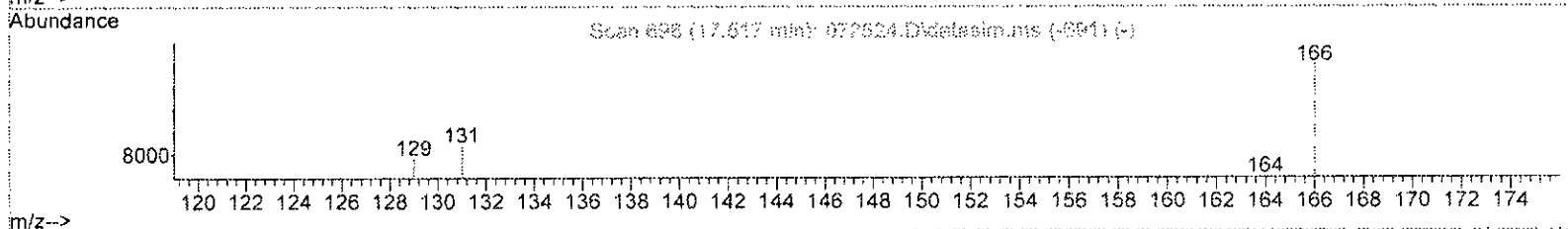
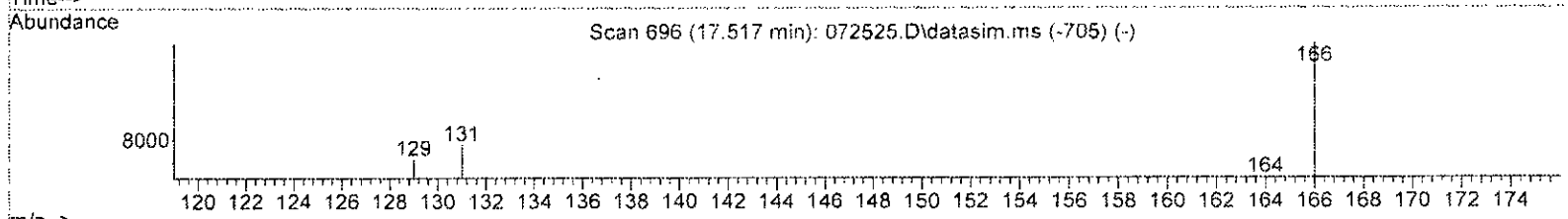
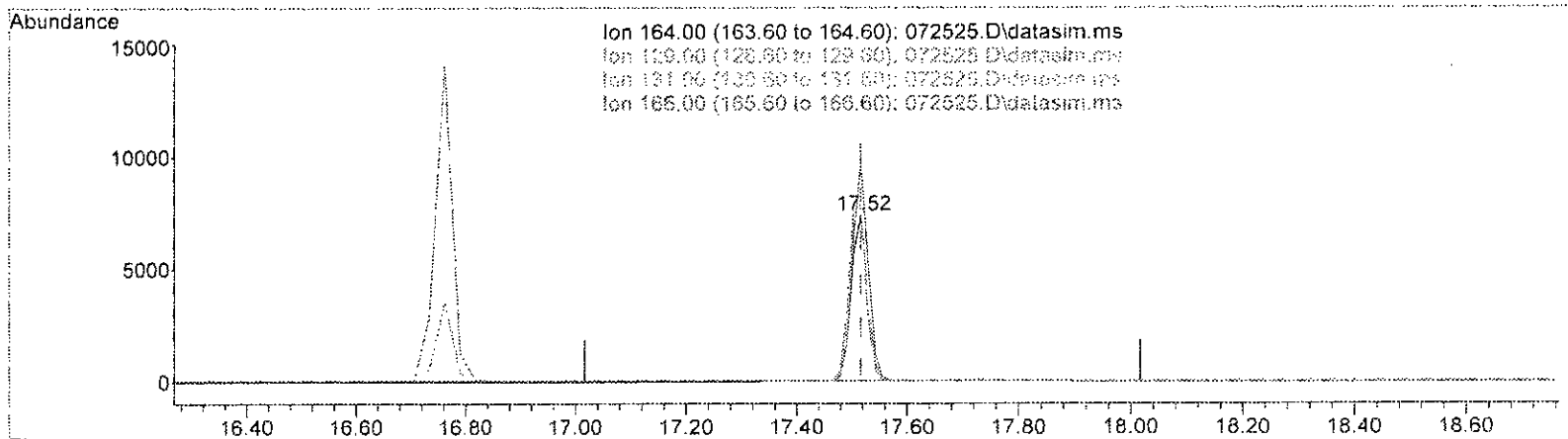
response	15224	
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	104.23
131.00	100.70	107.61
166.00	137.50	131.12

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 072525.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (-0.000) 4.264 ppbv m

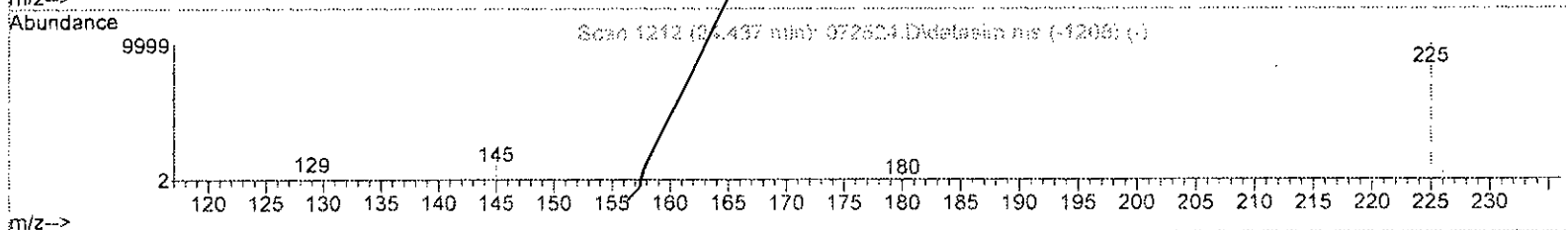
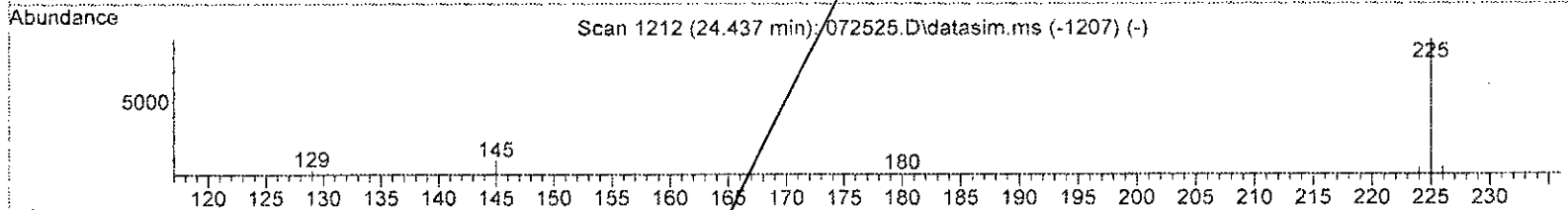
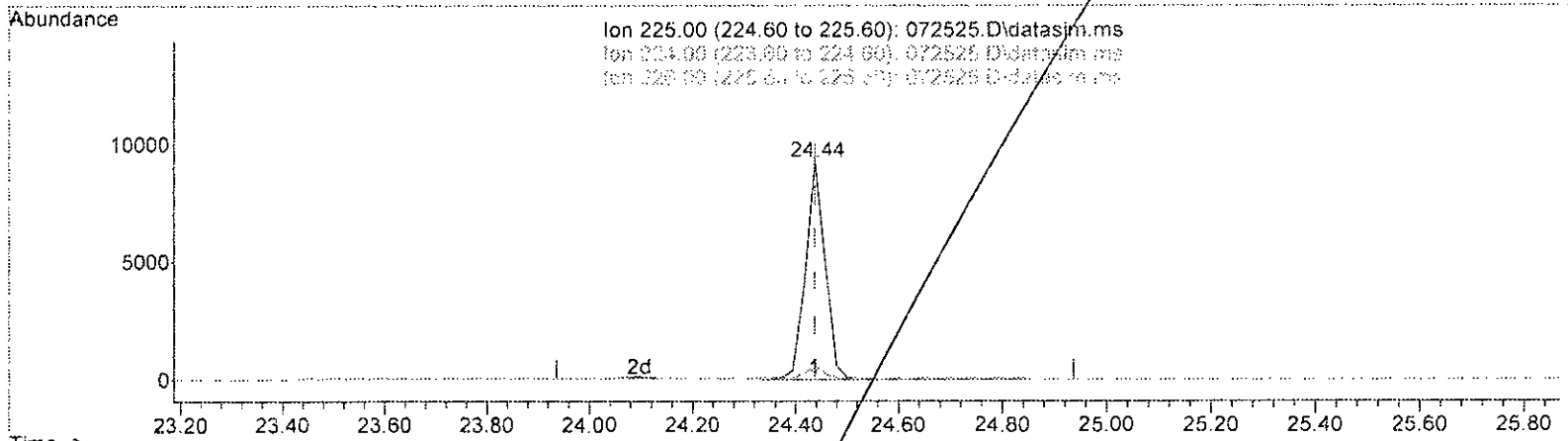
response	14887
Ion	Exp% Act%
164.00	100.00 100.00
129.00	93.20 104.22
131.00	100.70 107.57
166.00	137.50 130.91

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.437min (-0.000) 4.320 ppbv

response 24646

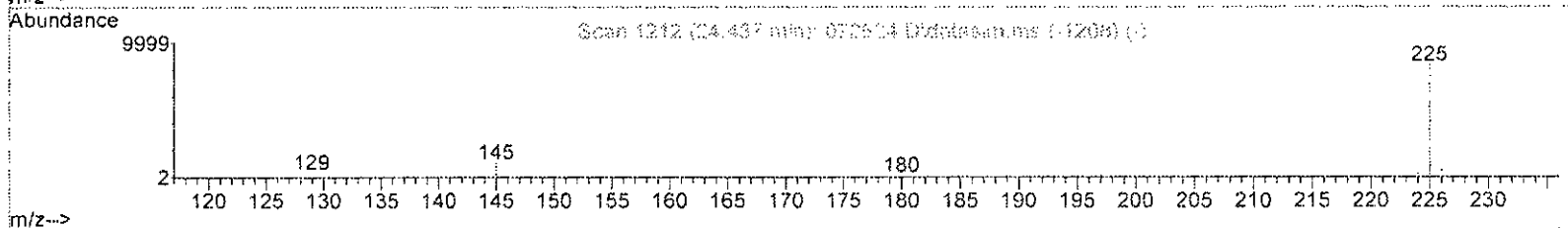
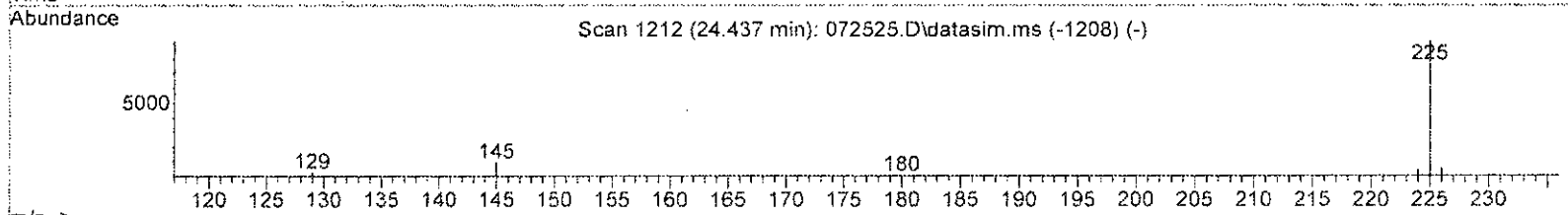
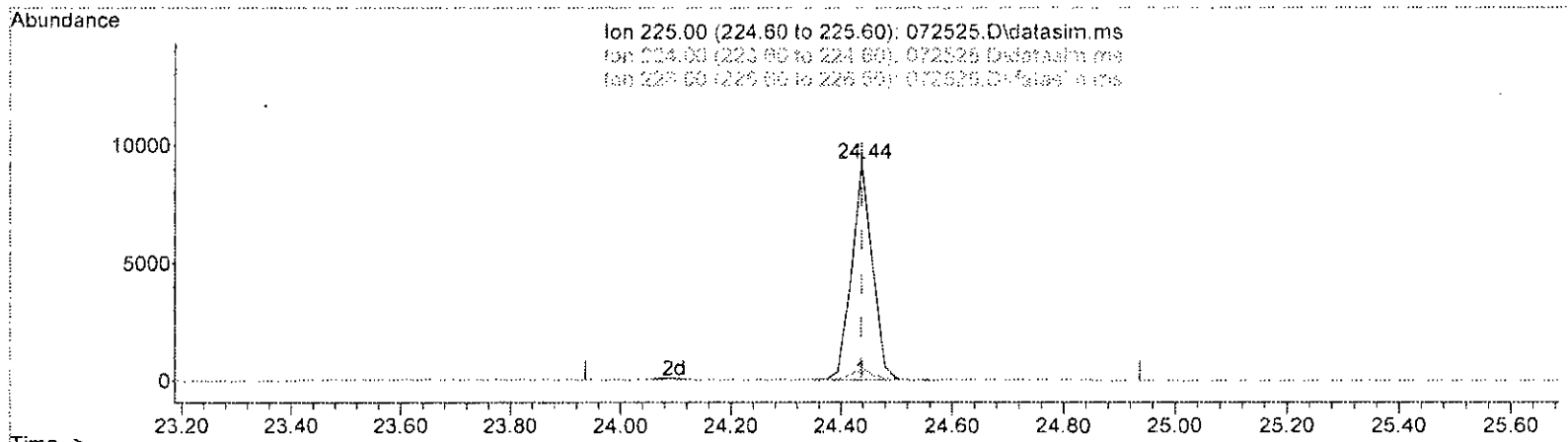
Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	4.83
226.00	5.20	5.96
0.00	0.00	0.00

*Handwritten signature:* 6/27/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072525.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.437min (-0.000) 4.181 ppbv m

response 23849

Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	4.83
226.00	5.20	5.96
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	18514	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	77513	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	68687	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	51519	10.122	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	9869	4.366	ppbv	95
3) Dichlorodifluoromethane	3.49	85	38549	4.234	ppbv	99
4) Chloromethane	3.73	50	11965	3.772	ppbv	77
5) F-114	3.88	85	36595	4.610	ppbv	99
6] Vinyl chloride	4.01	62	15184	4.235	ppbv	95
7] 1,3-Butadiene	4.21	54	9797	4.260	ppbv #	87
8) Butane	4.32	43	19690	4.283	ppbv	93
9) Bromomethane	4.56	94	13233	4.177	ppbv	97
10] Chloroethane	4.80	64	5493m	4.303	ppbv	
11] Vinyl bromide	5.26	106	13621m	4.264	ppbv	
12) Ethanol	4.92	45	3824	3.800	ppbv	88
13] Acrolein	5.38	56	5613m	4.160	ppbv	
14) Pentane	6.25	43	21849	4.157	ppbv	98
15) Trichlorofluoromethane	5.82	101	40279	4.536	ppbv	99
16) Acetone	5.55	58	5325	4.290	ppbv #	74
17) 2-Propanol	5.78	45	24200	4.461	ppbv	99
18] 1,1-Dichloroethene	6.65	96	12750	4.197	ppbv	98
19] trans-1,2-Dichloroethene	8.07	96	12529	4.164	ppbv #	84
20) Methylene chloride	6.75	84	11684	3.935	ppbv	95
21) t-Butyl alcohol (TBA)	6.57	59	19401	4.120	ppbv #	60
22) 3-Chloropropene	6.94	41	16800	4.372	ppbv	99
23) CFC-113	7.15	101	28831	4.418	ppbv	94
24) Carbon disulfide	7.25	76	42440	4.306	ppbv	97
25) Methyl t-butyl ether (...)	8.41	73	27829	4.335	ppbv	100
26) Vinyl acetate	8.51	43	30064	4.203	ppbv	99
27] 1,1-Dichloroethane	8.33	63	27967	4.199	ppbv	96
28] cis-1,2-Dichloroethene	9.60	96	13237	4.030	ppbv	82
29) Hexane	9.99	57	17210	4.261	ppbv	89
30] Chloroform	10.07	83	31986	4.127	ppbv	98
31) Ethyl acetate	9.90	43	29490	4.127	ppbv #	96
32) Tetrahydrofuran	10.72	42	14603	4.328	ppbv	94
33) 2-Butanone (MEK)	8.88	72	4915	4.444	ppbv	98
34] 1,2-Dichloroethane (EDC)	11.30	62	21039m	4.009	ppbv	
35] 1,1,1-Trichloroethane	11.79	97	26630	4.209	ppbv	94
36] Carbon tetrachloride	12.83	117	27714	4.240	ppbv	98
37] Benzene	12.58	78	41876	4.036	ppbv	98
38) Cyclohexane	13.05	84	10703	4.129	ppbv	89
40] 1,2-Dichloropropane	13.77	63	20062	4.182	ppbv	98

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

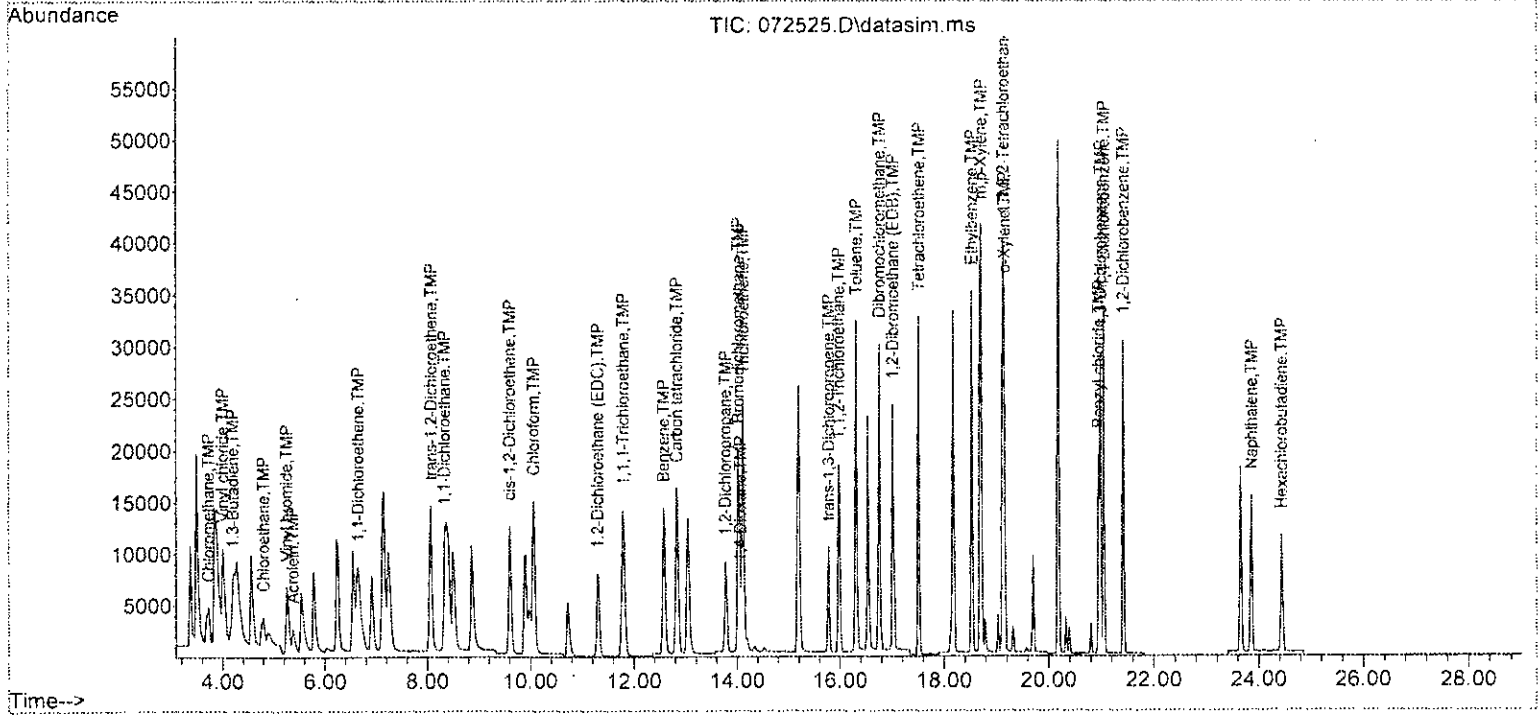
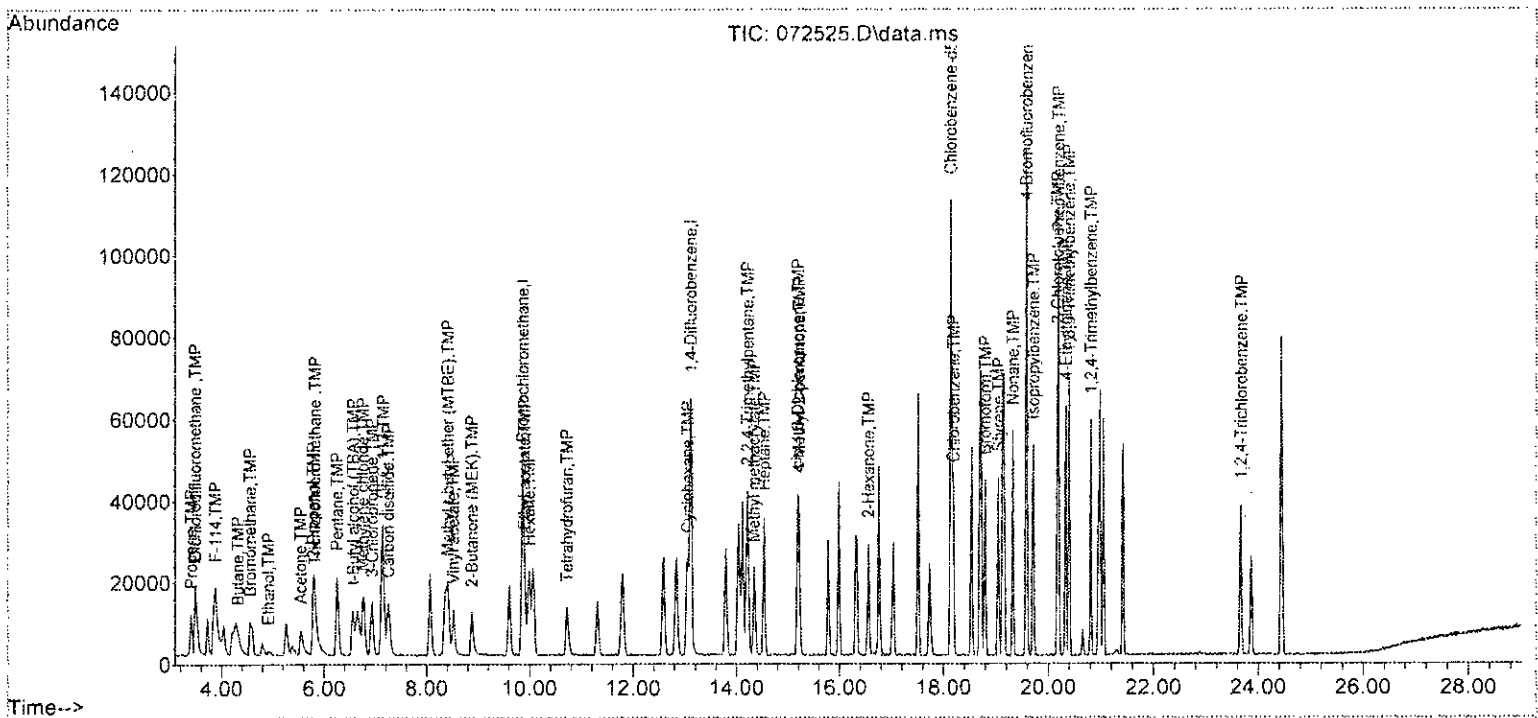
Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	7540	4.167	ppbv	84
42) 2,2,4-Trimethylpentane	14.21	57	61105	4.305	ppbv	94
43) Methyl methacrylate	14.33	41	17752	4.285	ppbv	95
44) Heptane	14.53	43	21987	4.321	ppbv	96
45] Bromodichloromethane	14.02	83	33370	4.288	ppbv	100
46] Trichloroethene	14.12	95	20149	4.047	ppbv	98
47) cis-1,3-Dichloropropene	15.18	75	22028	4.236	ppbv	99
48) 4-Methyl-2-pentanone	15.20	100	1401	4.455	ppbv #	51
49] trans-1,3-Dichloropropene	15.78	75	20089	4.278	ppbv	94
50] Toluene	16.31	92	23983m	4.068	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	18675m	4.160	ppbv	
52) 2-Hexanone	16.56	43	27532	4.258	ppbv	95
53] Tetrachloroethene	17.52	164	14887m	4.264	ppbv	
54] Dibromochloromethane	16.76	129	30643	4.282	ppbv	92
55] 1,2-Dibromoethane (EDB)	17.01	107	29261	4.142	ppbv	83
57) Chlorobenzene	18.19	112	30784	4.194	ppbv	99
58] Ethylbenzene	18.53	91	49367	3.993	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	41653	4.006	ppbv	92
60) Nonane	19.32	43	25025	4.147	ppbv	96
61) Isopropylbenzene	19.72	105	45672	4.282	ppbv	99
62) 2-Chlorotoluene	20.17	126	11573	4.190	ppbv	100
63) Propylbenzene	20.19	91	93926	4.218	ppbv	96
64) 4-Ethyltoluene	20.33	105	43245	4.239	ppbv	100
65] m,p-Xylene	18.70	106	33685	8.077	ppbv	99
66] o-Xylene	19.15	106	15627	4.109	ppbv	95
67) Styrene	19.05	104	21823	4.141	ppbv	96
68) Bromoform	18.80	173	25113	4.086	ppbv	99
70] Benzyl chloride	20.95	91	28187	4.407	ppbv	91
71) 1,3,5-Trimethylbenzene	20.39	105	40605	4.462	ppbv	98
72) 1,2,4-Trimethylbenzene	20.81	105	36141	4.521	ppbv	98
73] 1,3-Dichlorobenzene	20.99	146	28639	4.291	ppbv	89
74] 1,4-Dichlorobenzene	21.05	146	26505	4.288	ppbv	92
75] 1,2-Dichlorobenzene	21.41	146	28869	4.491	ppbv	96
76) 1,2,4-Trichlorobenzene	23.67	180	17811	4.392	ppbv	98
77] Naphthalene	23.86	128	31631	4.118	ppbv	99
78] Hexachlorobutadiene	24.44	225	23849m	4.181	ppbv	

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
Data File : 072525.D  
Acq On : 26 Jul 2023 3:56 am  
Operator : bat  
Sample : 4.0 ppbv T015 69-157-a  
Misc : cal line  
ALS Vial : 25 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Thu Jul 27 16:51:38 2023  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M





Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 55 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	4.000	4.366	-9.1	100	0.00
3 TMP Dichlorodifluoromethane	4.000	4.234	-5.8	100	0.00
4 TMP Chloromethane	4.000	3.772	5.7	100	0.04
5 TMP F-114	4.000	4.610	-15.3	100	0.00
6 TMP Vinyl chloride	4.000	4.235	-5.9	100	0.00
7 TMP 1,3-Butadiene	4.000	4.260	-6.5	100	0.00
8 TMP Butane	4.000	4.283	-7.1	100	0.04
9 TMP Bromomethane	4.000	4.177	-4.4	100	0.00
10 TMP Chloroethane	4.000	4.303	-7.6	103	0.00
11 TMP Vinyl bromide	4.000	4.264	-6.6	99	0.00
12 TMP Ethanol	4.000	3.800	5.0	100	0.00
13 TMP Acrolein	4.000	4.160	-4.0	101	0.00
14 TMP Pentane	4.000	4.157	-3.9	100	0.00
15 TMP Trichlorofluoromethane	4.000	4.536	-13.4	100	0.02
16 TMP Acetone	4.000	4.290	-7.3	100	0.00
17 TMP 2-Propanol	4.000	4.461	-11.5	100	0.00
18 TMP 1,1-Dichloroethene	4.000	4.197	-4.9	100	0.00
19 TMP trans-1,2-Dichloroethene	4.000	4.164	-4.1	100	0.00
20 TMP Methylene chloride	4.000	3.935	1.6	100	-0.03
21 TMP t-Butyl alcohol (TBA)	4.000	4.120	-3.0	100	0.00
22 TMP 3-Chloropropene	4.000	4.372	-9.3	100	0.00
23 TMP CFC-113	4.000	4.418	-10.5	100	0.00
24 TMP Carbon disulfide	4.000	4.306	-7.7	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	4.000	4.335	-8.4	100	0.00
26 TMP Vinyl acetate	4.000	4.203	-5.1	100	0.00
27 TMP 1,1-Dichloroethane	4.000	4.199	-5.0	100	0.00
28 TMP cis-1,2-Dichloroethene	4.000	4.030	-0.8	100	0.00
29 TMP Hexane	4.000	4.261	-6.5	100	0.00
30 TMP Chloroform	4.000	4.127	-3.2	100	0.00
31 TMP Ethyl acetate	4.000	4.127	-3.2	100	0.00
32 TMP Tetrahydrofuran	4.000	4.328	-8.2	100	0.00
33 TMP 2-Butanone (MEK)	4.000	4.444	-11.1	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	4.000	4.009	-0.2	100	0.00
35 TMP 1,1,1-Trichloroethane	4.000	4.209	-5.2	100	0.00
36 TMP Carbon tetrachloride	4.000	4.240	-6.0	100	0.00
37 TMP Benzene	4.000	4.036	-0.9	102	0.00
38 TMP Cyclohexane	4.000	4.129	-3.2	100	0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	4.000	4.182	-4.6	100	0.00
41 TMP 1,4-Dioxane	4.000	4.167	-4.2	100	0.00
42 TMP 2,2,4-Trimethylpentane	4.000	4.305	-7.6	100	0.00
43 TMP Methyl methacrylate	4.000	4.285	-7.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	4.000	4.321	-8.0	100	0.00
45 TMP Bromodichloromethane	4.000	4.288	-7.2	100	0.00
46 TMP Trichloroethene	4.000	4.047	-1.2	100	0.00
47 TMP cis-1,3-Dichloropropene	4.000	4.236	-5.9	100	0.00
48 TMP 4-Methyl-2-pentanone	4.000	4.455	-11.4	100	0.00
49 TMP trans-1,3-Dichloropropene	4.000	4.278	-6.9	100	0.00
50 TMP Toluene	4.000	4.068	-1.7	97	0.00
51 TMP 1,1,2-Trichloroethane	4.000	4.160	-4.0	100	0.00
52 TMP 2-Hexanone	4.000	4.258	-6.5	100	0.00
53 TMP Tetrachloroethene	4.000	4.264	-6.6	100	0.00
54 TMP Dibromochloromethane	4.000	4.282	-7.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	4.000	4.142	-3.6	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	4.000	4.194	-4.8	100	0.00
58 TMP Ethylbenzene	4.000	3.993	0.2	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	4.000	4.006	-0.2	100	0.00
60 TMP Nonane	4.000	4.147	-3.7	100	0.00
61 TMP Isopropylbenzene	4.000	4.282	-7.1	100	0.00
62 TMP 2-Chlorotoluene	4.000	4.190	-4.8	100	0.00
63 TMP Propylbenzene	4.000	4.218	-5.4	100	0.00
64 TMP 4-Ethyltoluene	4.000	4.239	-6.0	100	0.00
65 TMP m,p-Xylene	8.000	8.077	-1.0	100	0.00
66 TMP o-Xylene	4.000	4.109	-2.7	100	0.00
67 TMP Styrene	4.000	4.141	-3.5	100	0.00
68 TMP Bromoform	4.000	4.086	-2.2	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.122	-1.2	100	0.00
70 TMP Benzyl chloride	4.000	4.407	-10.2	100	0.00
71 TMP 1,3,5-Trimethylbenzene	4.000	4.462	-11.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	4.000	4.521	-13.0	100	0.00
73 TMP 1,3-Dichlorobenzene	4.000	4.291	-7.3	100	0.00
74 TMP 1,4-Dichlorobenzene	4.000	4.288	-7.2	100	0.00
75 TMP 1,2-Dichlorobenzene	4.000	4.491	-12.3	100	0.00
76 TMP 1,2,4-Trichlorobenzene	4.000	4.392	-9.8	100	0.00
77 TMP Naphthalene	4.000	4.118	-3.0	100	0.00
78 TMP Hexachlorobutadiene	4.000	4.181	-4.5	101	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	1.333	-9.2	100	0.00
3 TMP Dichlorodifluoromethane	4.917	5.205	-5.9	100	0.00
4 TMP Chloromethane	1.713	1.616	5.7	100	0.04
5 TMP F-114	4.288	4.942	-15.3	100	0.00
6 TMP Vinyl chloride	1.937	2.050	-5.8	100	0.00
7 TMP 1,3-Butadiene	1.242	1.323	-6.5	100	0.00
8 TMP Butane	2.483	2.659	-7.1	100	0.04
9 TMP Bromomethane	1.711	1.787	-4.4	100	0.00
10 TMP Chloroethane	0.689	0.742	-7.7	103	0.00
11 TMP Vinyl bromide	1.725	1.839	-6.6	99	0.00
12 TMP Ethanol	0.543	0.516	5.0	100	0.00
13 TMP Acrolein	0.729	0.758	-4.0	101	0.00
14 TMP Pentane	2.839	2.950	-3.9	100	0.00
15 TMP Trichlorofluoromethane	4.796	5.439	-13.4	100	0.02
16 TMP Acetone	0.670	0.719	-7.3	100	0.00
17 TMP 2-Propanol	2.930	3.268	-11.5	100	0.00
18 TMP 1,1-Dichloroethene	1.641	1.722	-4.9	100	0.00
19 TMP trans-1,2-Dichloroethene	1.625	1.692	-4.1	100	0.00
20 TMP Methylene chloride	1.604	1.578	1.6	100	-0.03
21 TMP t-Butyl alcohol (TBA)	2.544	2.620	-3.0	100	0.00
22 TMP 3-Chloropropene	2.076	2.269	-9.3	100	0.00
23 TMP CFC-113	3.525	3.893	-10.4	100	0.00
24 TMP Carbon disulfide	5.324	5.731	-7.6	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.758	-8.4	100	0.00
26 TMP Vinyl acetate	3.863	4.060	-5.1	100	0.00
27 TMP 1,1-Dichloroethane	3.597	3.776	-5.0	100	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.787	-0.7	100	0.00
29 TMP Hexane	2.181	2.324	-6.6	100	0.00
30 TMP Chloroform	4.186	4.319	-3.2	100	0.00
31 TMP Ethyl acetate	3.859	3.982	-3.2	100	0.00
32 TMP Tetrahydrofuran	1.822	1.972	-8.2	100	0.00
33 TMP 2-Butanone (MEK)	0.597	0.664	-11.2	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.841	-0.2	100	0.00
35 TMP 1,1,1-Trichloroethane	3.417	3.596	-5.2	100	0.00
36 TMP Carbon tetrachloride	3.530	3.742	-6.0	100	0.00
37 TMP Benzene	5.604	5.655	-0.9	102	0.00
38 TMP Cyclohexane	1.400	1.445	-3.2	100	0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.647	-4.5	100	0.00
41 TMP 1,4-Dioxane	0.233	0.243	-4.3	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.831	1.971	-7.6	100	0.00
43 TMP Methyl methacrylate	0.534	0.573	-7.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072525.D  
 Acq On : 26 Jul 2023 3:56 am  
 Operator : bat  
 Sample : 4.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:14 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.709	-8.1	100	0.00
45 TMP Bromodichloromethane	1.004	1.076	-7.2	100	0.00
46 TMP Trichloroethene	0.642	0.650	-1.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.710	-5.8	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.045	-9.8	100	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.648	-6.9	100	0.00
50 TMP Toluene	0.761	0.774	-1.7	97	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.602	-4.0	100	0.00
52 TMP 2-Hexanone	0.834	0.888	-6.5	100	0.00
53 TMP Tetrachloroethene	0.450	0.480	-6.7	100	0.00
54 TMP Dibromochloromethane	0.923	0.988	-7.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.944	-3.6	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.120	-4.8	100	0.00
58 TMP Ethylbenzene	1.800	1.797	0.2	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.516	-0.1	100	0.00
60 TMP Nonane	0.879	0.911	-3.6	100	0.00
61 TMP Isopropylbenzene	1.553	1.662	-7.0	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.421	-4.7	100	0.00
63 TMP Propylbenzene	3.242	3.419	-5.5	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.574	-6.0	100	0.00
65 TMP m,p-Xylene	0.607	0.613	-1.0	100	0.00
66 TMP o-Xylene	0.554	0.569	-2.7	100	0.00
67 TMP Styrene	0.767	0.794	-3.5	100	0.00
68 TMP Bromoform	0.895	0.914	-2.1	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.750	-1.2	100	0.00
70 TMP Benzyl chloride	0.931	1.026	-10.2	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.478	-11.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.315	-13.0	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	1.042	-7.2	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.965	-7.2	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	1.051	-12.3	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.648	-9.8	100	0.00
77 TMP Naphthalene	1.053	1.151	-9.3	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.868	-4.5	101	0.00

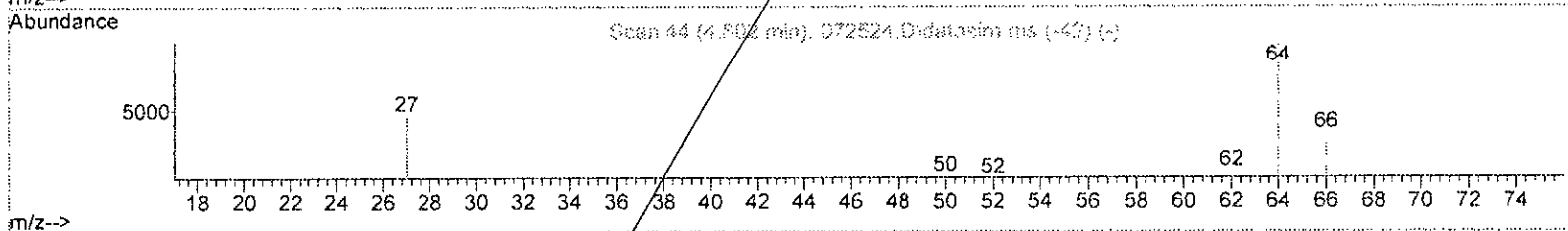
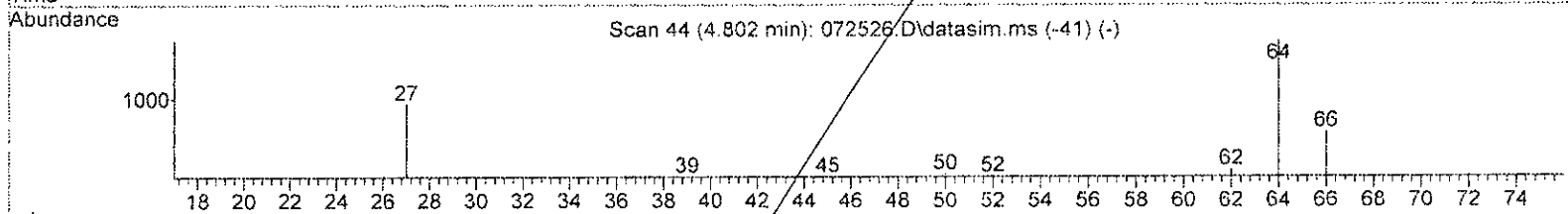
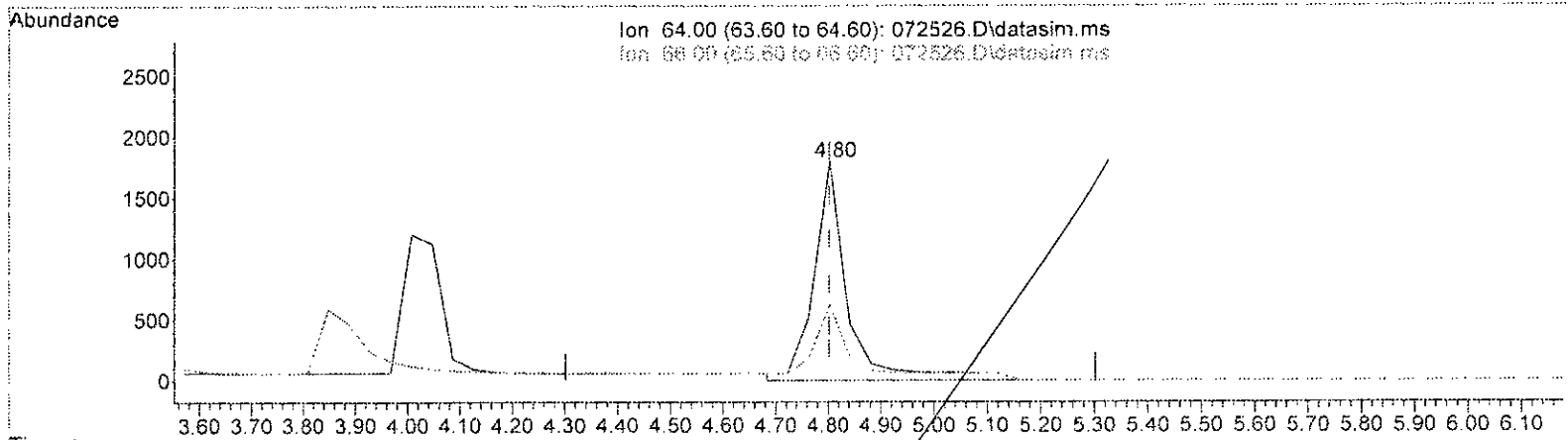
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\072ST015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 6.027 ppbv

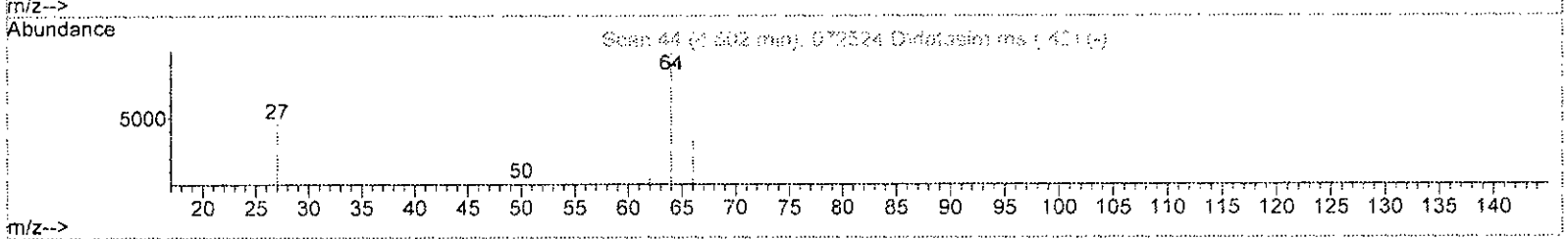
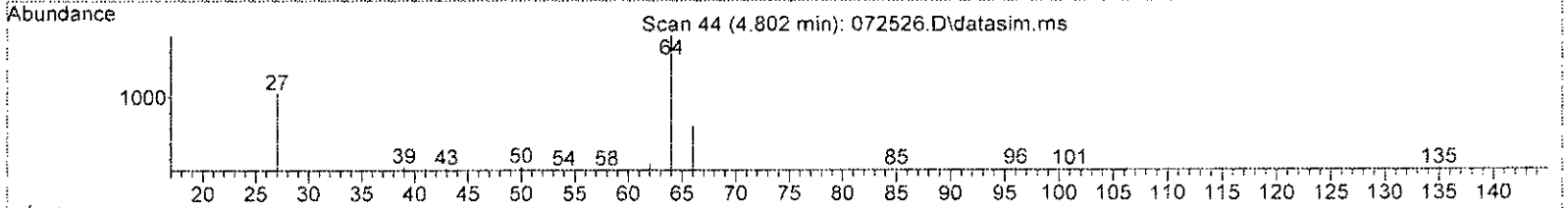
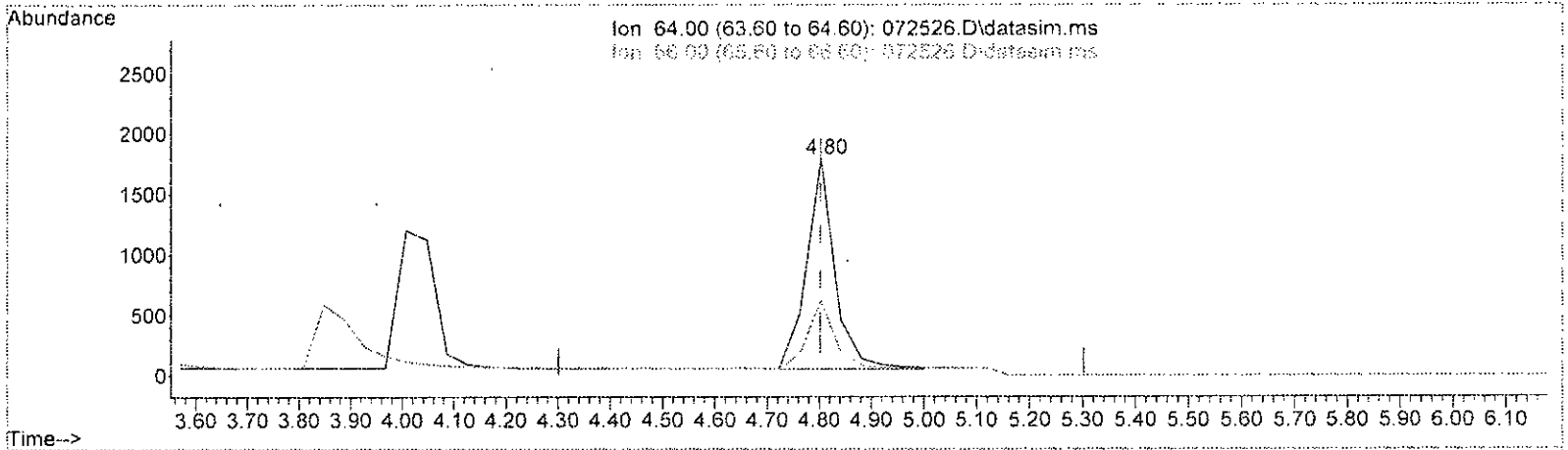
response	7693	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.69
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

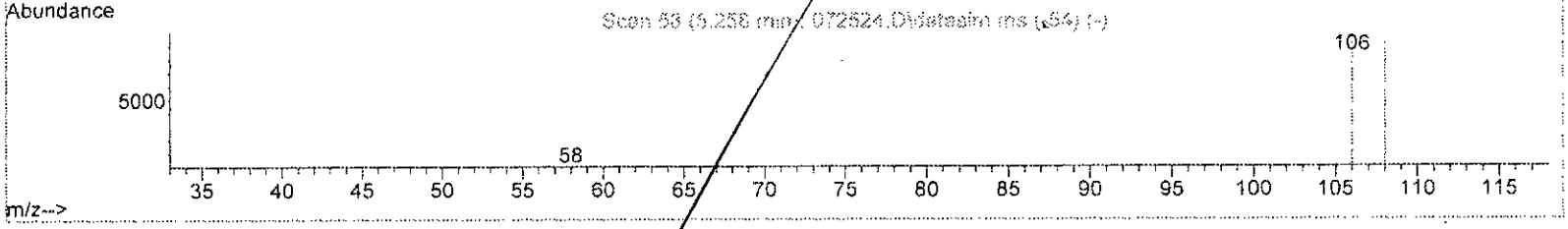
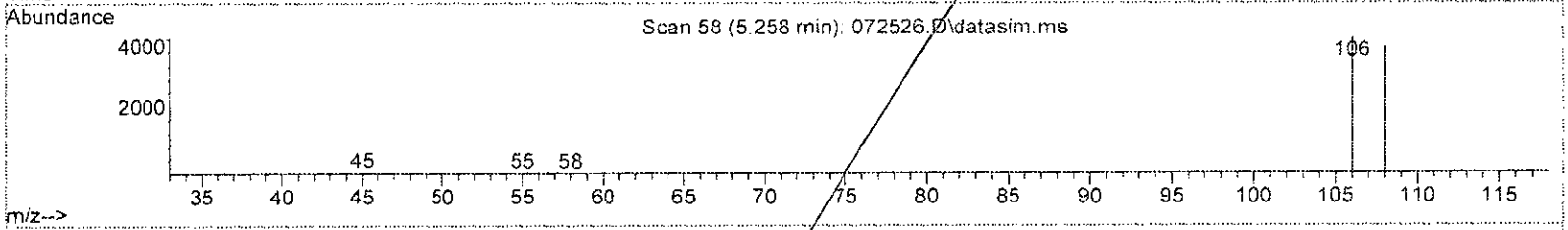
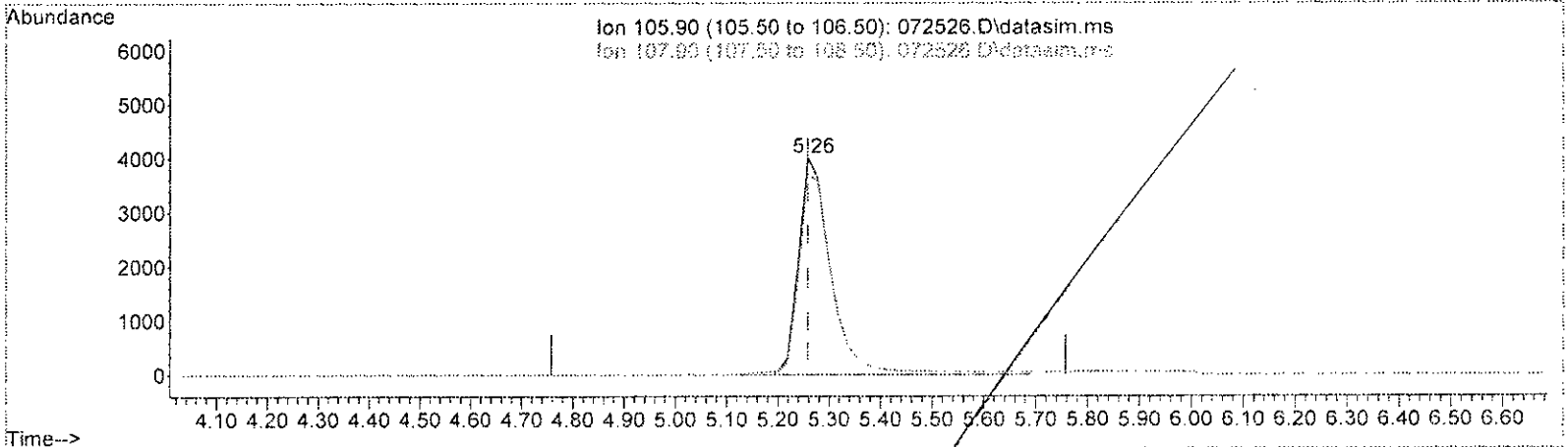
(10) Chloroethane (TMP)		
Retention Time	Expected	Measured
4.802min (+ 0.000)	5.135 ppbv m	
response	6554	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.69
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

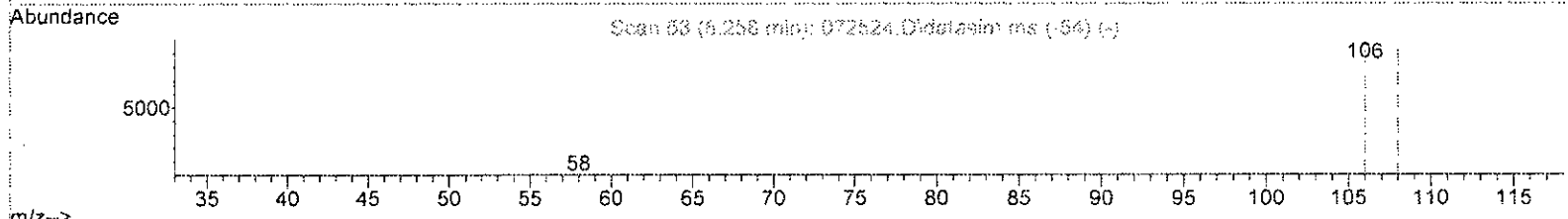
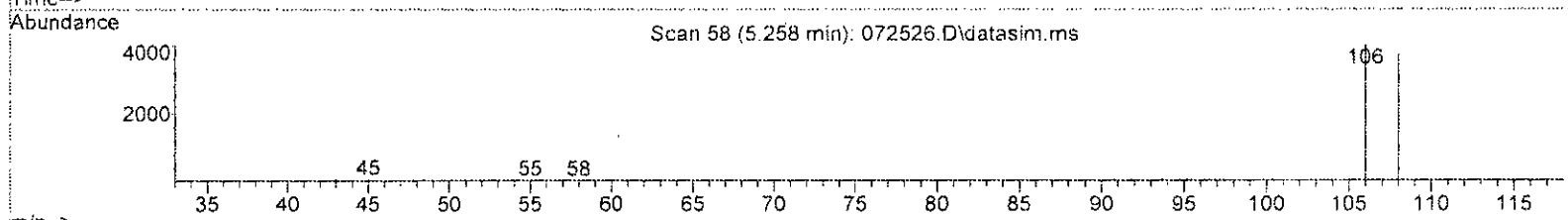
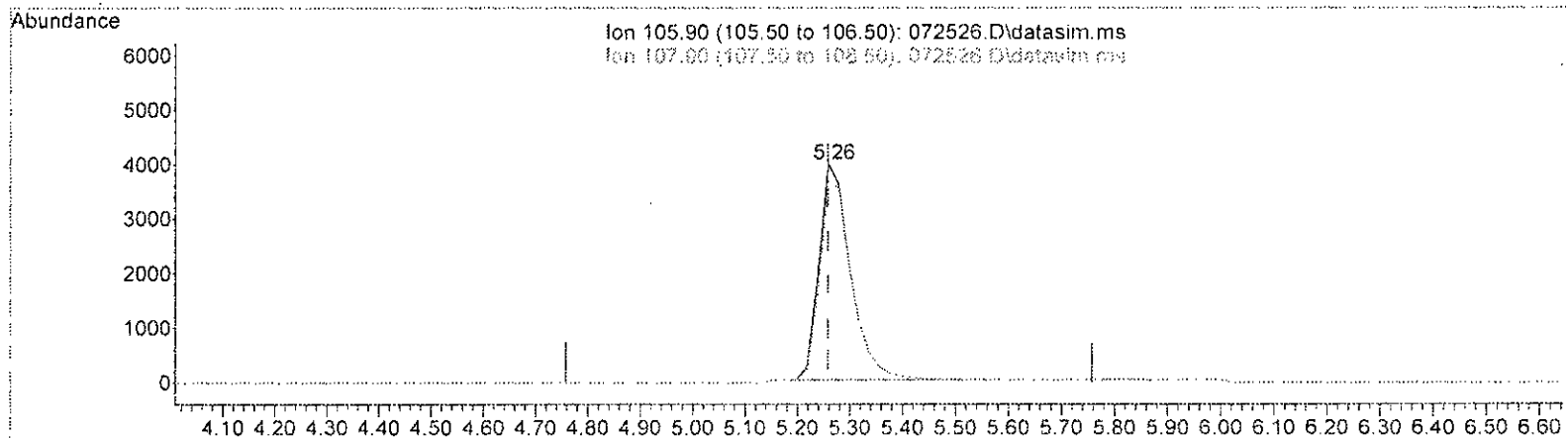
(11) Vinyl bromide (TMP)		
5.258min (-0.000)	6.083 ppbv	
response	19431	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	95.25
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 5.139 ppbv m

response	16415
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 112.75
0.00	0.00 0.00
0.00	0.00 0.00

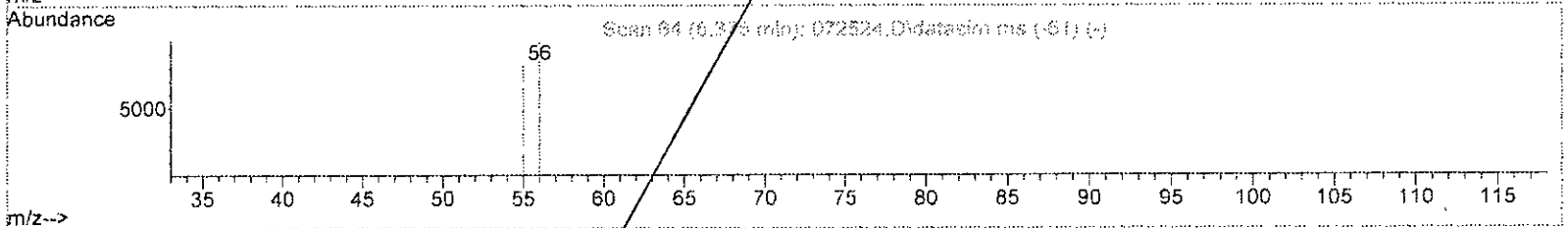
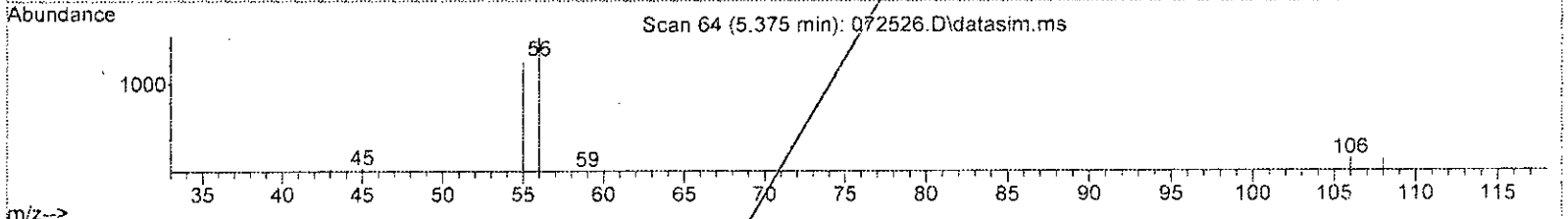
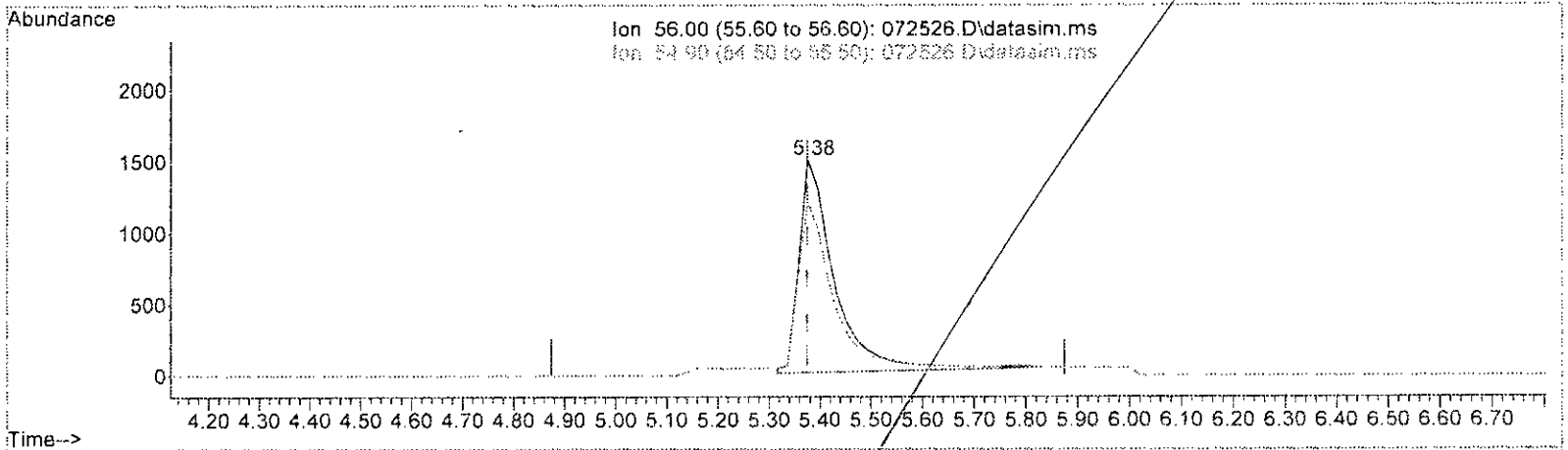
*Handwritten signature: S. H. H.*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

(13) Acrolein (TMP)

5.375min (+ 0.000) 5.385 ppbv

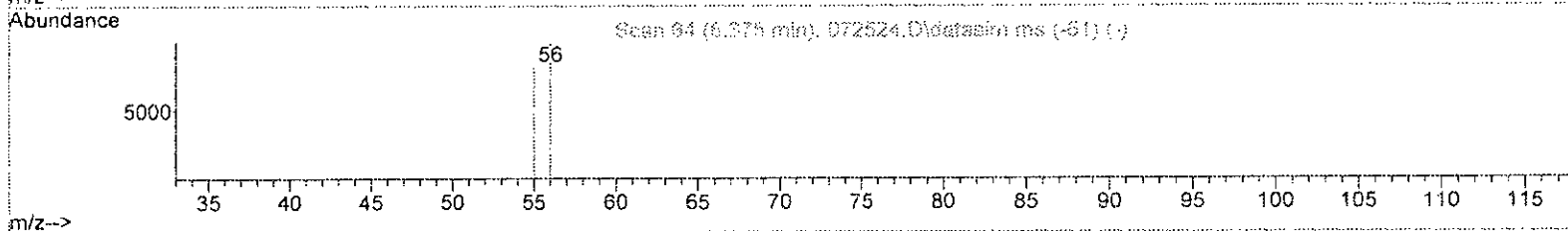
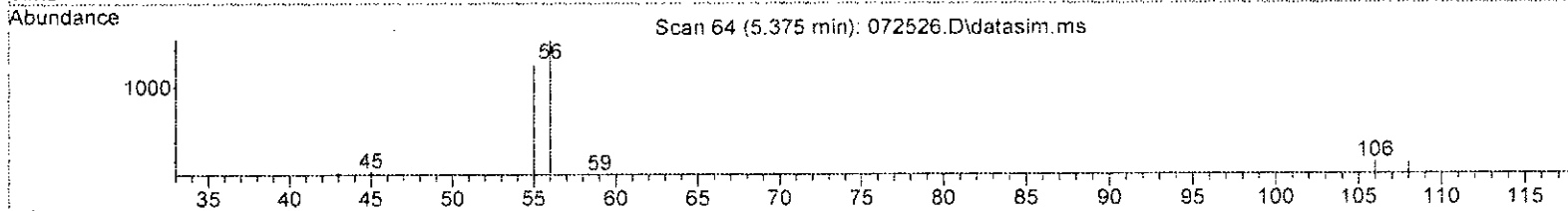
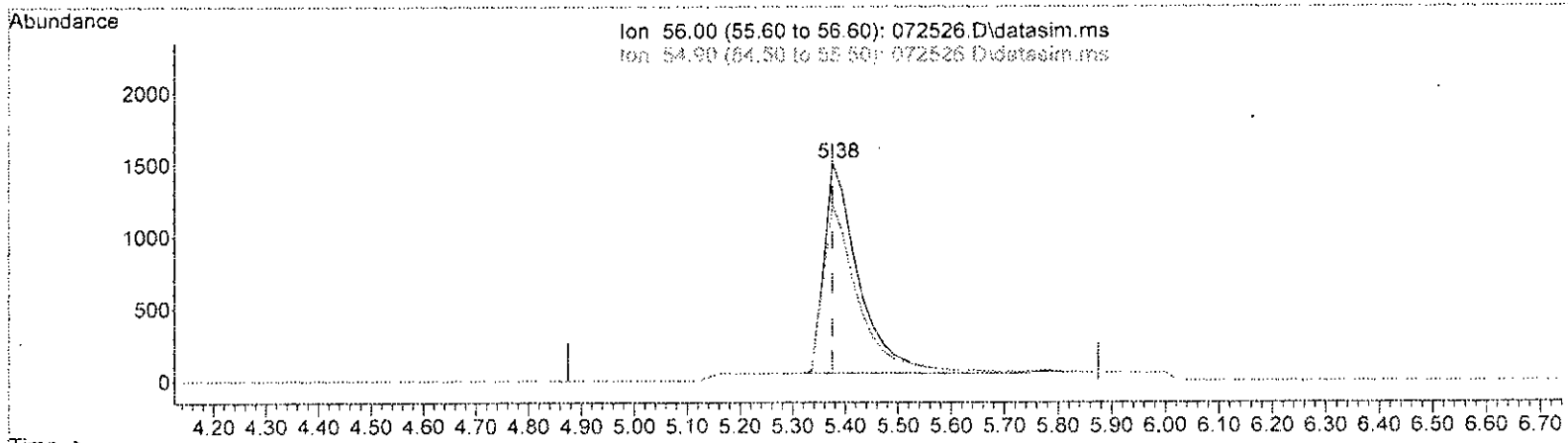
response	7265	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	80.76
0.00	0.00	0.00
0.00	0.00	0.00

*6/1/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

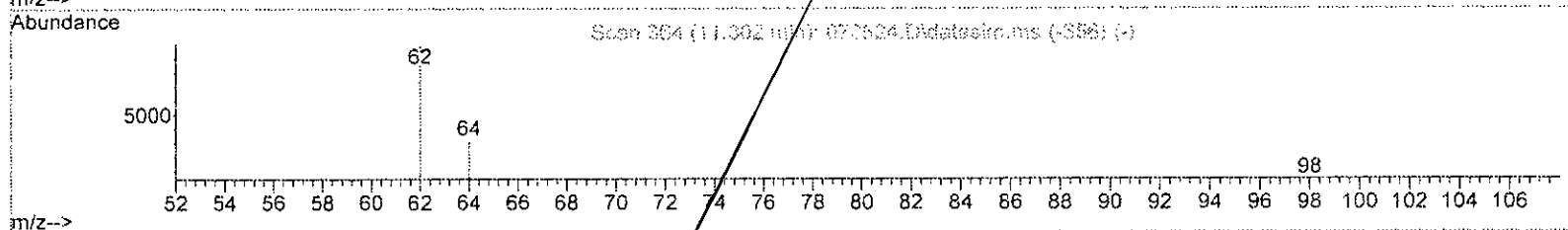
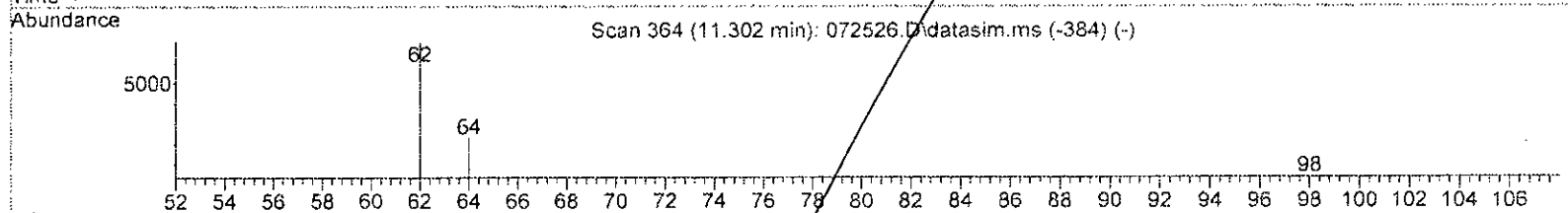
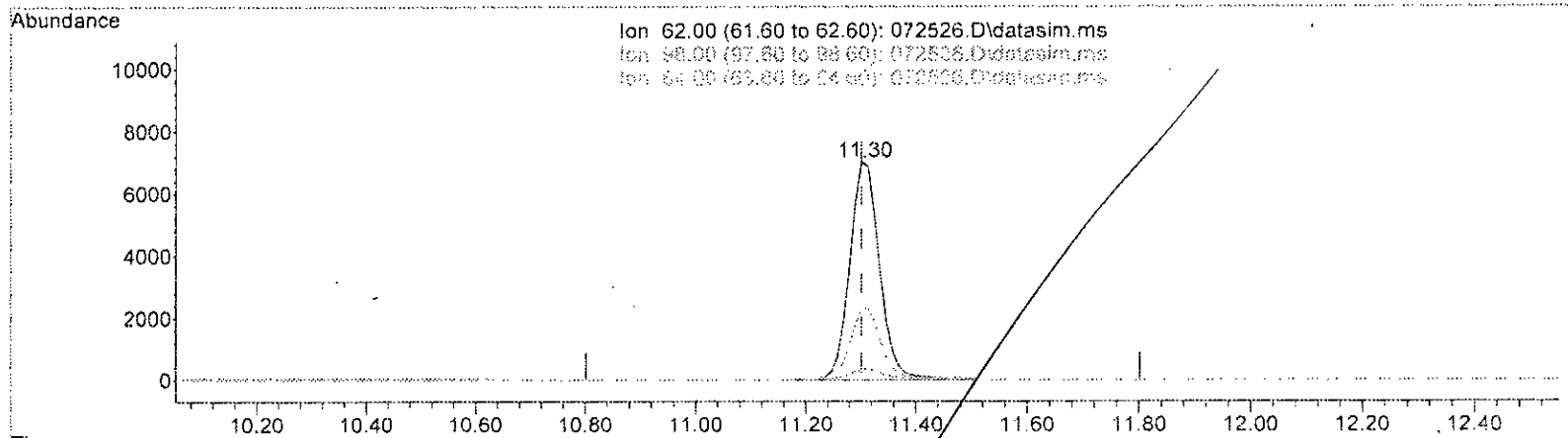
(13) Acrolein (TMP)			
5.375min (+ 0.000)	4.993 ppbv m		
response	6736		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	87.10	
0.00	0.00	0.00	
0.00	0.00	0.00	

6/27/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TIC)

11.302min (+ 0.000) 5.009 ppbv

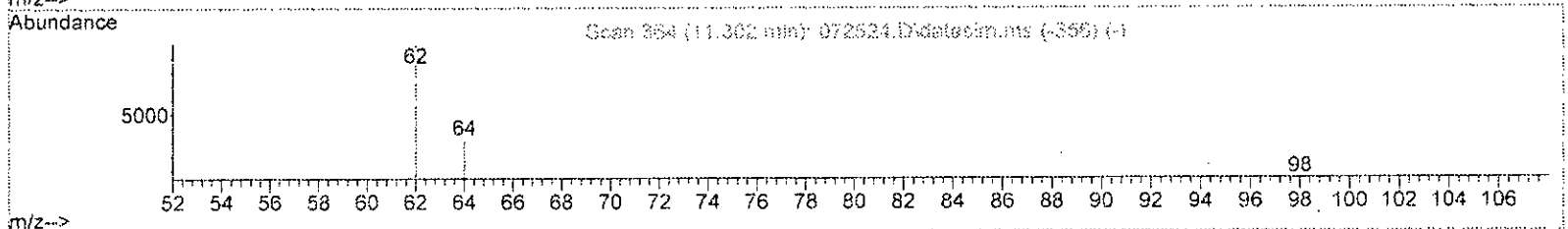
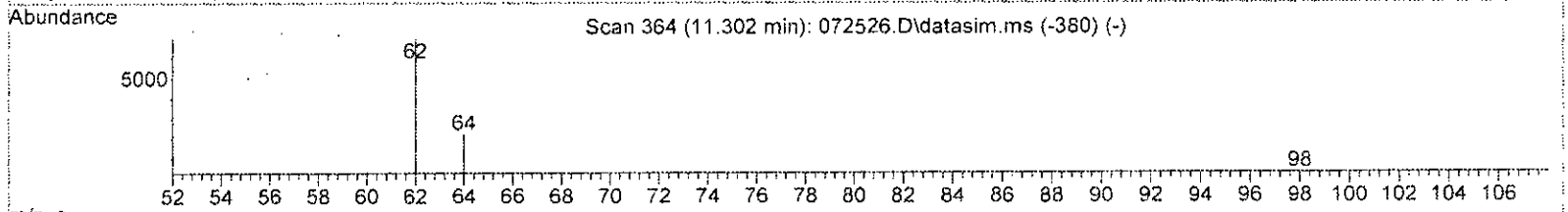
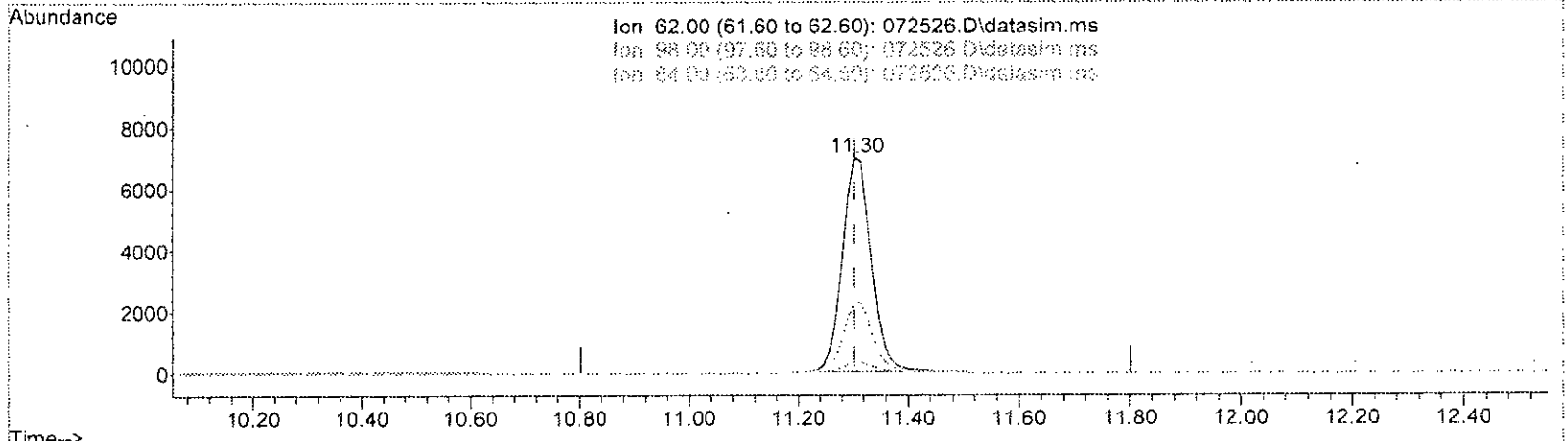
response	26287	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.81
64.00	33.00	32.48
0.00	0.00	0.00

*h/h*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

(34) 1,2-Dichloroethane (EDC) (IMP)

11.302min (+ 0.000) 4.840 ppbv m

response 25401

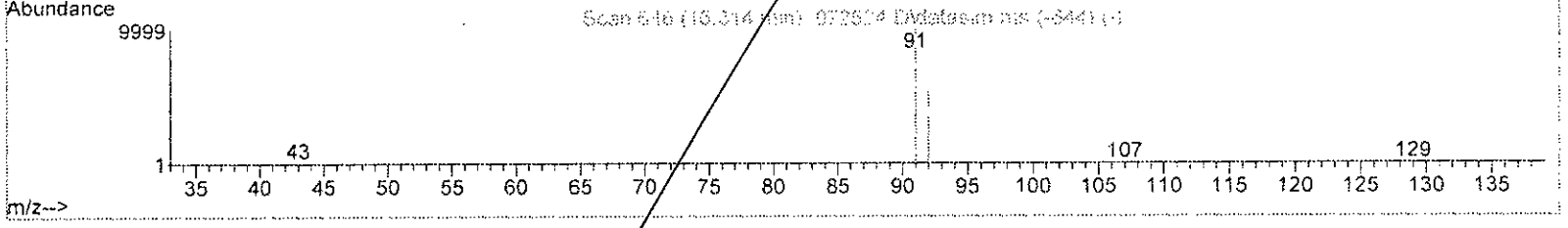
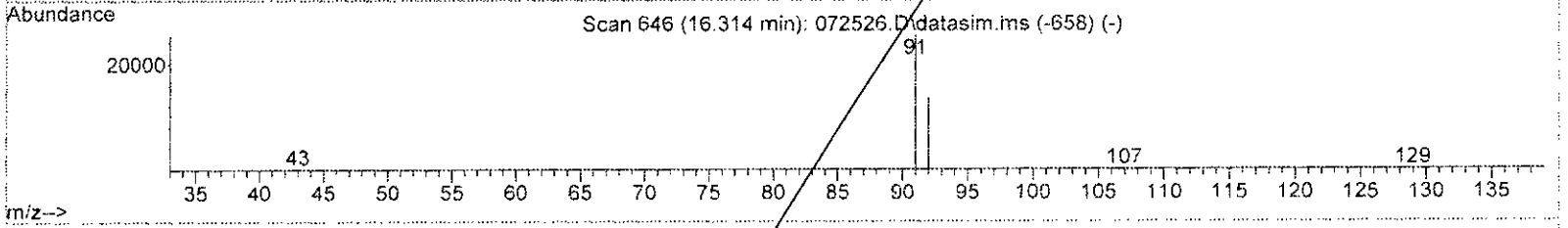
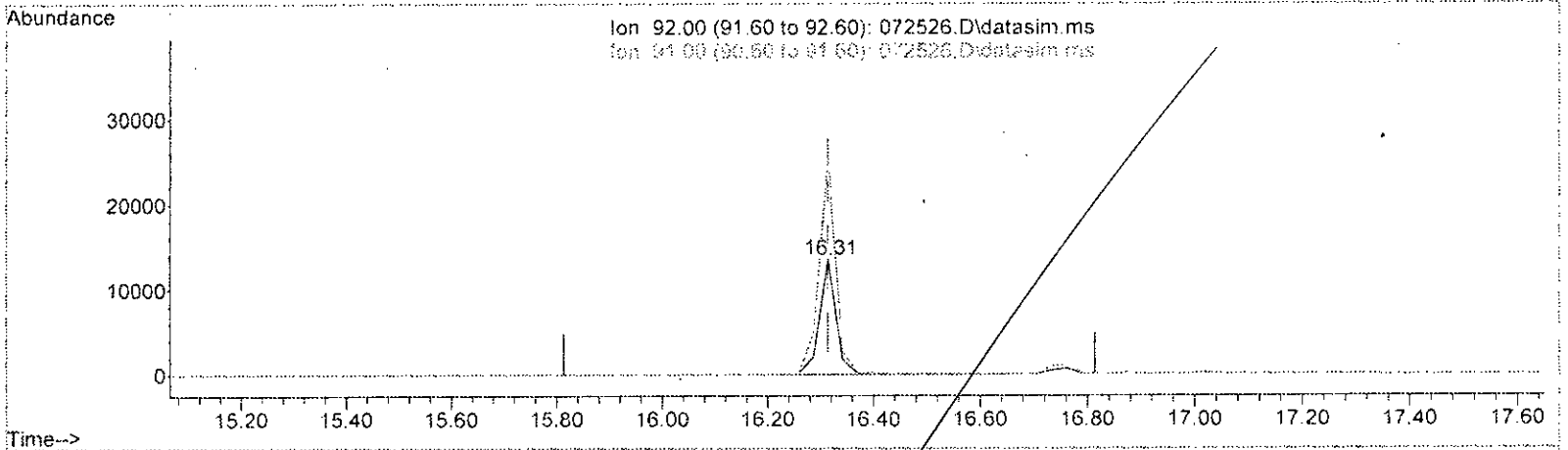
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.81
64.00	33.00	32.48
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

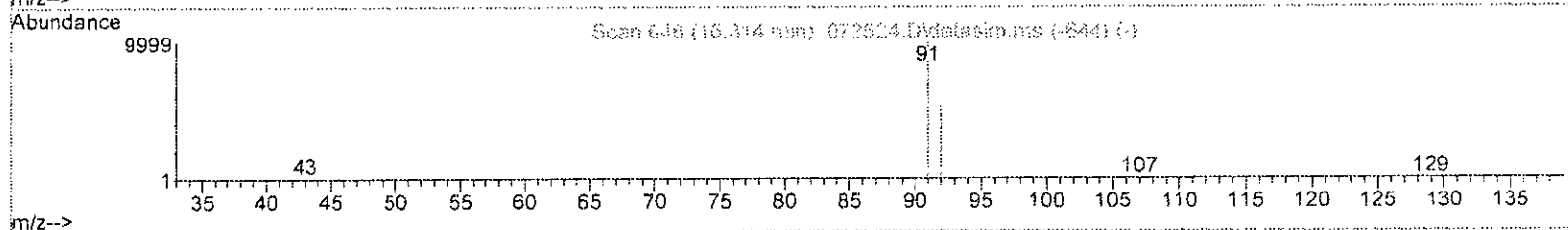
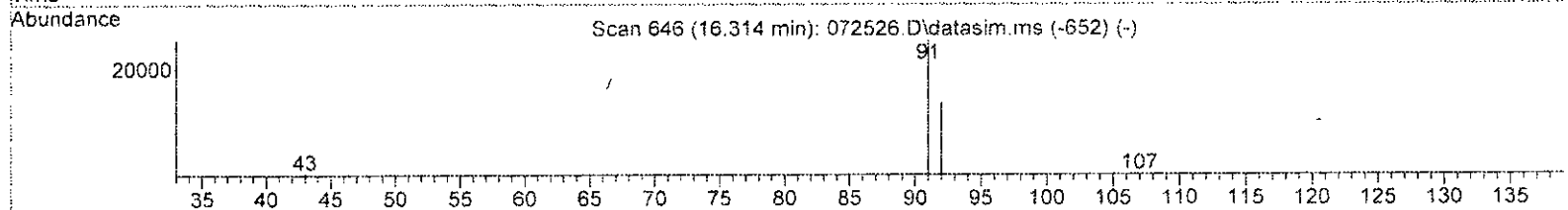
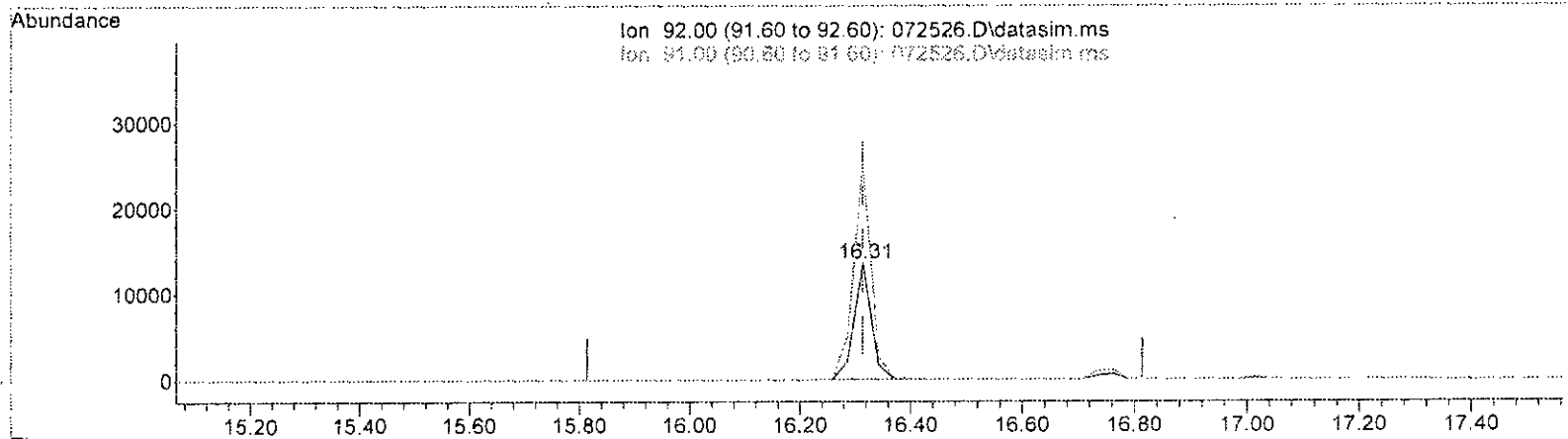
(50)	Toluene (TMP)		
16.314min (+ 0.000)	4.898 ppbv		
response	29960		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	187.09	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

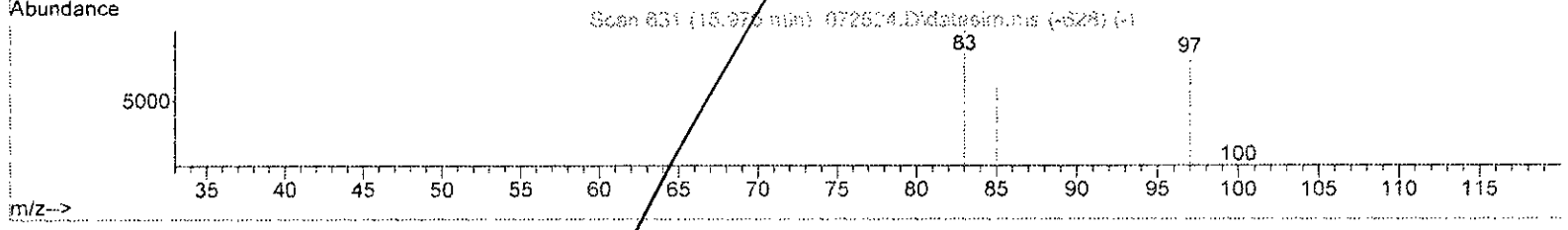
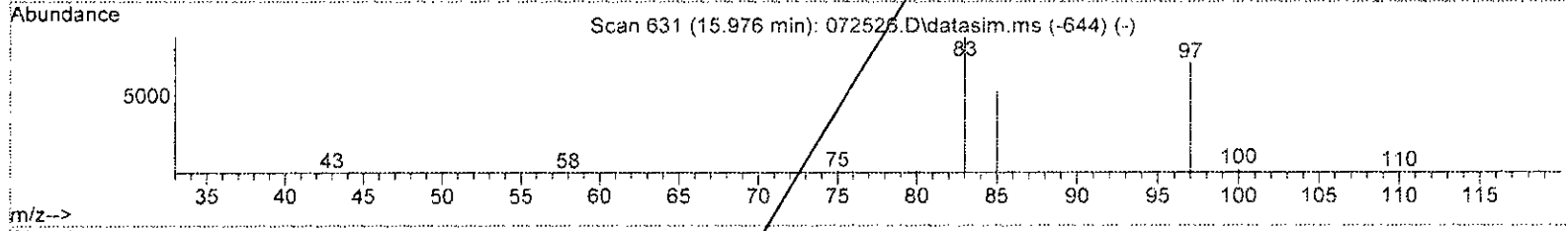
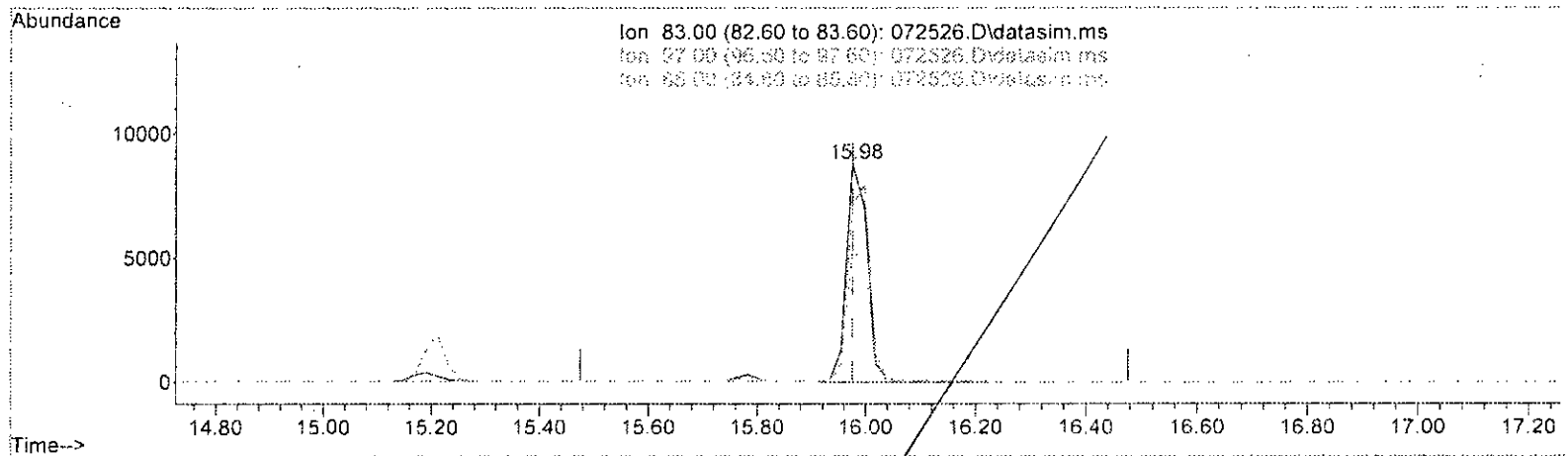
(50) Toluene (TMP)		
16.314min (+ 0.000)	4.791 ppbv m	
response	29303	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	187.09
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.976min (~0.000) 5.169 ppbv

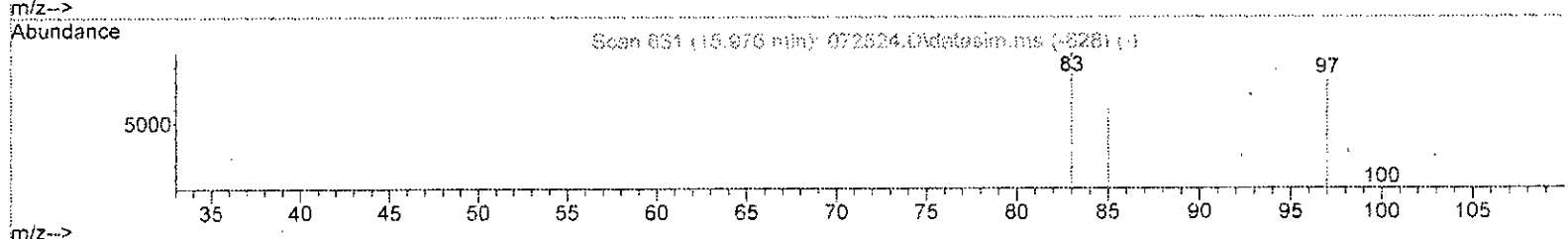
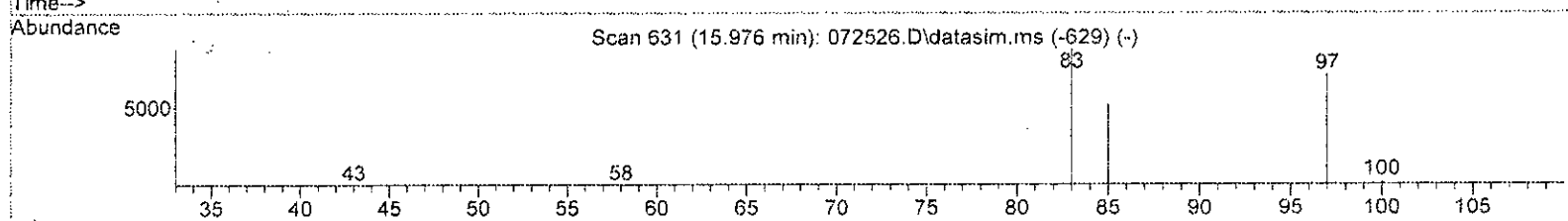
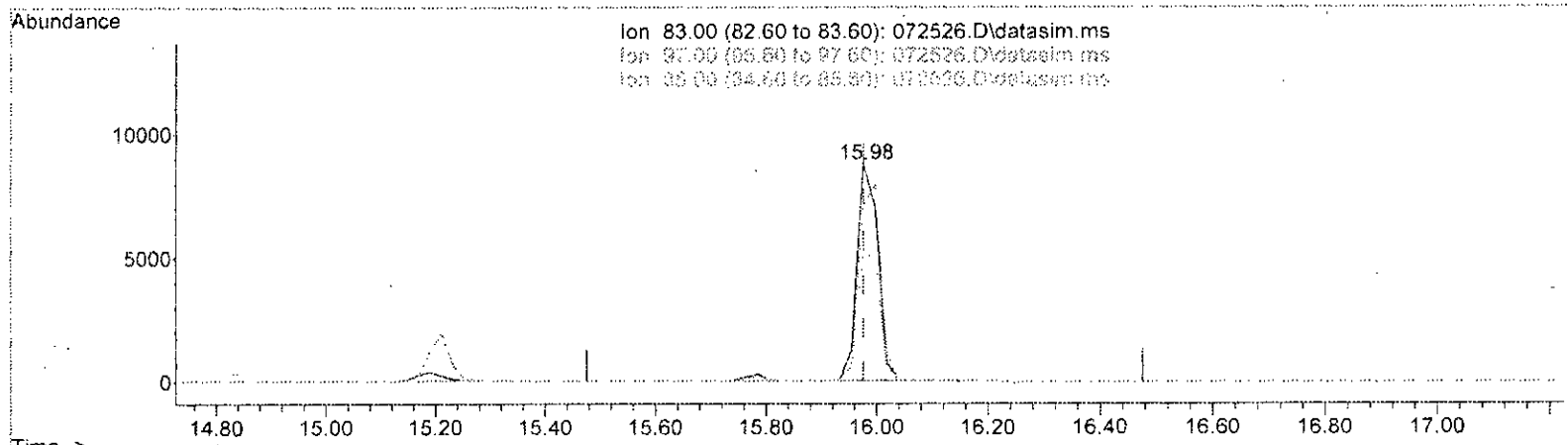
response	24078	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	80.97
85.00	60.50	59.18
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072526.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.976min (-0.000) 4.867 ppbv m

response 22670

Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	80.97
85.00	60.50	59.18
0.00	0.00	0.00

*Handwritten signature/initials*



Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	18513	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80426	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	70179	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	53333	10.256	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	12303	5.443	ppbv	96
3) Dichlorodifluoromethane	3.49	85	46240	5.079	ppbv	99
4] Chloromethane	3.73	50	14109	4.448	ppbv	78
5) F-114	3.88	85	44644	5.624	ppbv	95
6] Vinyl chloride	4.01	62	18024	5.027	ppbv	95
7] 1,3-Butadiene	4.21	54	12057	5.244	ppbv #	88
8) Butane	4.32	43	23846	5.187	ppbv	95
9) Bromomethane	4.60	94	15986	5.046	ppbv	98
10] Chloroethane	4.80	64	6554m	5.135	ppbv	
11] Vinyl bromide	5.26	106	16415m	5.139	ppbv	
12) Ethanol	4.92	45	5198	5.166	ppbv	86
13] Acrolein	5.38	56	6736m	4.993	ppbv	
14) Pentane	6.25	43	26767	5.092	ppbv	100
15) Trichlorofluoromethane	5.82	101	48467	5.458	ppbv	98
16) Acetone	5.55	58	6544	5.272	ppbv	99
17) 2-Propanol	5.78	45	30192	5.566	ppbv	98
18] 1,1-Dichloroethene	6.65	96	15451	5.086	ppbv	99
19] trans-1,2-Dichloroethene	8.07	96	15137	5.031	ppbv	87
20) Methylene chloride	6.78	84	14619	4.924	ppbv	94
21) t-Butyl alcohol (TBA)	6.57	59	24611	5.226	ppbv #	58
22) 3-Chloropropene	6.94	41	20740	5.398	ppbv	99
23) CFC-113	7.15	101	34591	5.301	ppbv	93
24) Carbon disulfide	7.25	76	50534	5.127	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	33306	5.189	ppbv	95
26) Vinyl acetate	8.51	43	37554	5.251	ppbv	97
27] 1,1-Dichloroethane	8.33	63	33848	5.083	ppbv	96
28] cis-1,2-Dichloroethene	9.60	96	16068	4.892	ppbv #	80
29) Hexane	9.99	57	20193	5.000	ppbv	94
30] Chloroform	10.07	83	38757	5.001	ppbv	98
31) Ethyl acetate	9.90	43	35956	5.033	ppbv #	98
32) Tetrahydrofuran	10.71	42	17867	5.296	ppbv	95
33) 2-Butanone (MEK)	8.88	72	5812	5.255	ppbv	98
34] 1,2-Dichloroethane (EDC)	11.30	62	25401m	4.840	ppbv	
35] 1,1,1-Trichloroethane	11.79	97	32242	5.097	ppbv	94
36] Carbon tetrachloride	12.83	117	33720	5.160	ppbv	97
37] Benzene	12.58	78	50550	4.872	ppbv	99
38) Cyclohexane	13.05	84	13361	5.154	ppbv	95
40] 1,2-Dichloropropane	13.77	63	24430	4.908	ppbv	98

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

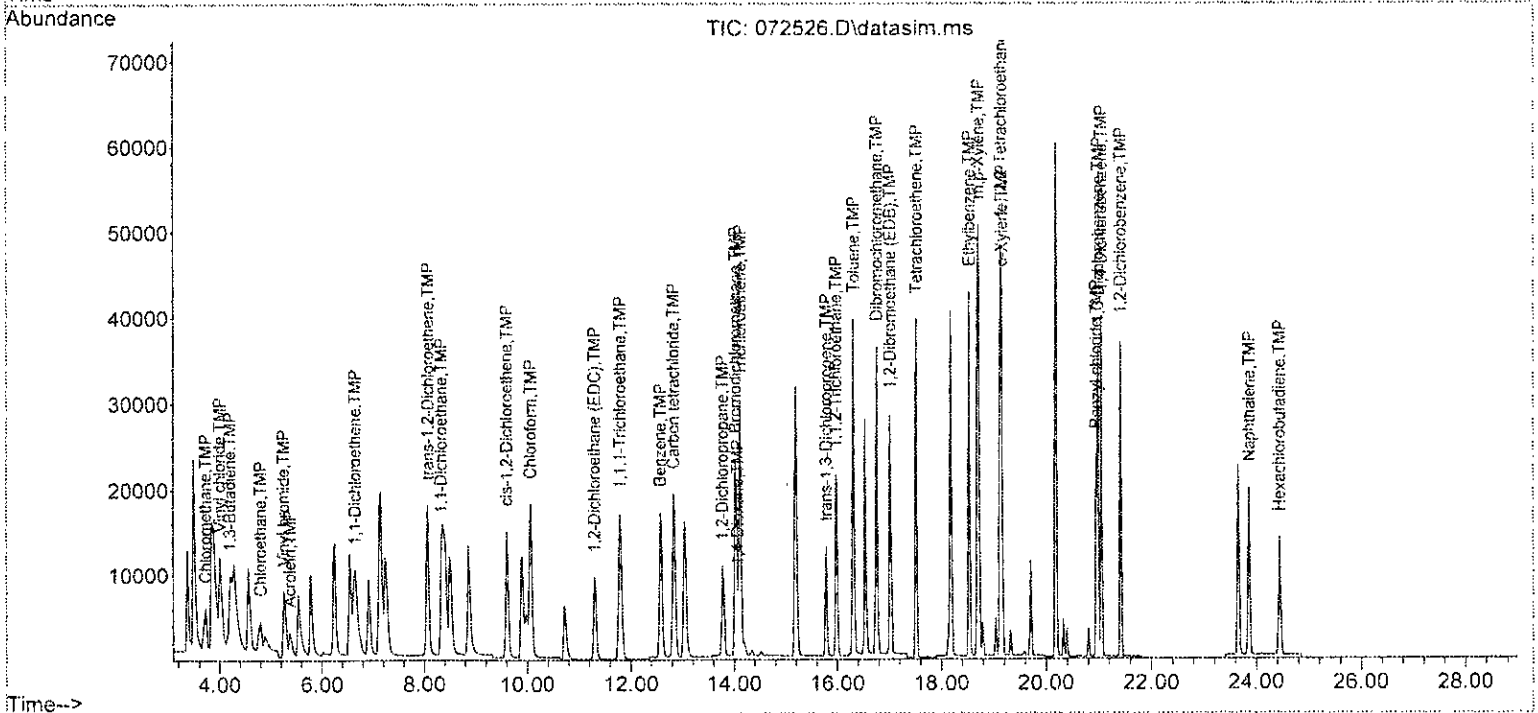
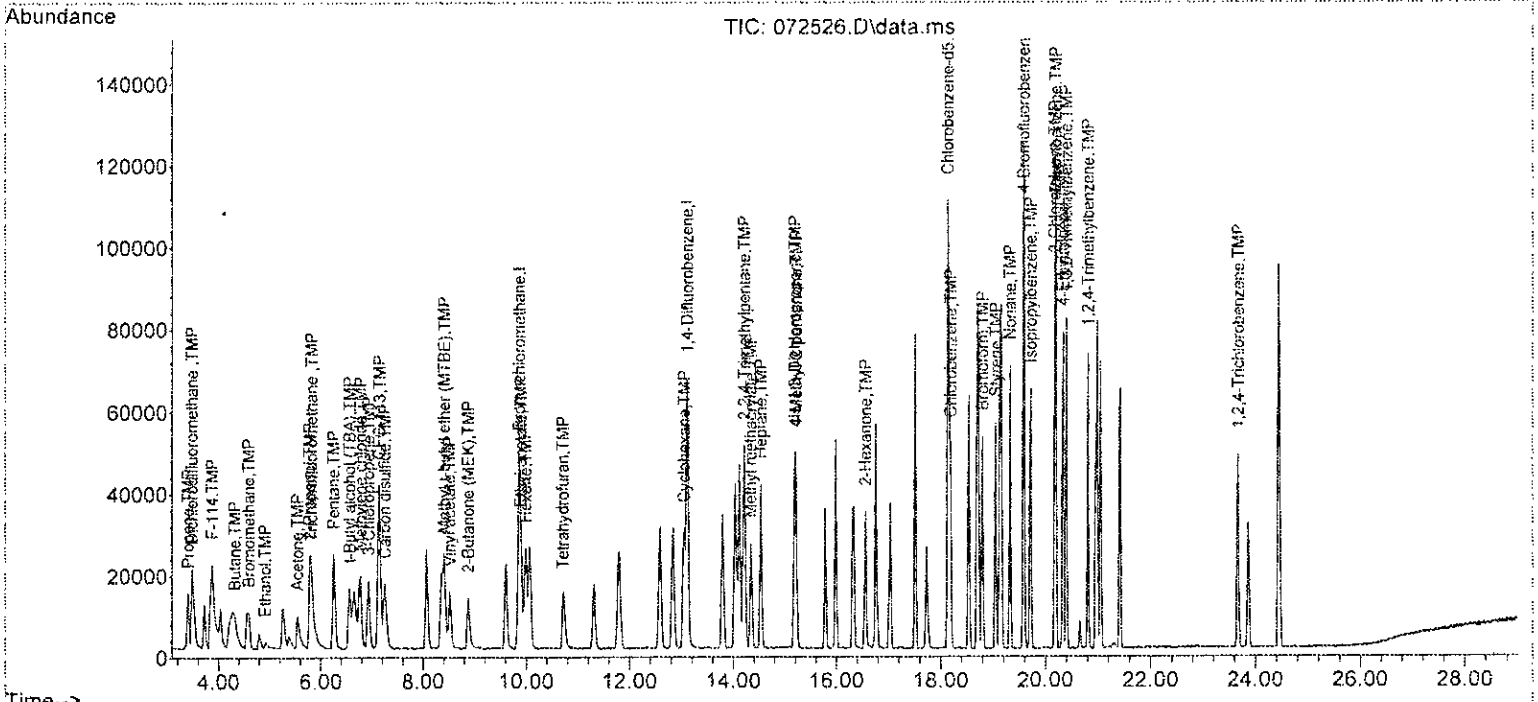
Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	9167	4.883	ppbv	83
42) 2,2,4-Trimethylpentane	14.21	57	75155	5.104	ppbv	94
43) Methyl methacrylate	14.33	41	21442	4.988	ppbv #	95
44) Heptane	14.53	43	26264	4.975	ppbv	97
45] Bromodichloromethane	14.02	83	40113	4.967	ppbv	100
46] Trichloroethene	14.12	95	24604	4.763	ppbv	96
47) cis-1,3-Dichloropropene	15.18	75	26711	4.950	ppbv	96
48) 4-Methyl-2-pentanone	15.21	100	1495	4.582	ppbv #	6
49] trans-1,3-Dichloropropene	15.78	75	24621	5.053	ppbv	95
50] Toluene	16.31	92	29303m	4.791	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	22670m	4.867	ppbv	
52) 2-Hexanone	16.56	43	34200	5.098	ppbv	94
53] Tetrachloroethene	17.52	164	18119	5.002	ppbv	92
54] Dibromochloromethane	16.76	129	37016	4.985	ppbv	92
55] 1,2-Dibromoethane (EDB)	17.01	107	35056	4.783	ppbv	83
57) Chlorobenzene	18.19	112	36323	4.843	ppbv	98
58] Ethylbenzene	18.53	91	60291	4.772	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	49942	4.701	ppbv	92
60) Nonane	19.32	43	30511	4.949	ppbv	96
61) Isopropylbenzene	19.72	105	53117	4.874	ppbv	99
62) 2-Chlorotoluene	20.17	126	14121	5.004	ppbv	98
63) Propylbenzene	20.19	91	113738	4.999	ppbv	98
64) 4-Ethyltoluene	20.33	105	52595	5.046	ppbv	99
65] m,p-Xylene	18.70	106	41106	9.647	ppbv	100
66] o-Xylene	19.15	106	19051	4.903	ppbv	93
67) Styrene	19.05	104	27819	5.167	ppbv	98
68) Bromoform	18.80	173	30435	4.847	ppbv	99
70] Benzyl chloride	20.95	91	34817	5.328	ppbv	91
71) 1,3,5-Trimethylbenzene	20.39	105	48415	5.207	ppbv	98
72) 1,2,4-Trimethylbenzene	20.81	105	44805	5.486	ppbv	99
73] 1,3-Dichlorobenzene	20.99	146	35146	5.154	ppbv	90
74] 1,4-Dichlorobenzene	21.05	146	32543	5.153	ppbv	93
75] 1,2-Dichlorobenzene	21.41	146	33778	5.143	ppbv	96
76) 1,2,4-Trichlorobenzene	23.67	180	21598	5.212	ppbv	96
77] Naphthalene	23.86	128	40629	5.093	ppbv	99
78] Hexachlorobutadiene	24.44	225	28850	4.950	ppbv	99

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	5.000	5.443	-8.9	100	0.00
3 TMP	Dichlorodifluoromethane	5.000	5.079	-1.6	100	0.00
4 TMP	Chloromethane	5.000	4.448	11.0	100	0.04
5 TMP	F-114	5.000	5.624	-12.5	100	0.00
6 TMP	Vinyl chloride	5.000	5.027	-0.5	100	0.00
7 TMP	1,3-Butadiene	5.000	5.244	-4.9	100	0.00
8 TMP	Butane	5.000	5.187	-3.7	100	0.04
9 TMP	Bromomethane	5.000	5.046	-0.9	100	0.04
10 TMP	Chloroethane	5.000	5.135	-2.7	101	0.00
11 TMP	Vinyl bromide	5.000	5.139	-2.8	99	0.00
12 TMP	Ethanol	5.000	5.166	-3.3	100	0.00
13 TMP	Acrolein	5.000	4.993	0.1	99	0.00
14 TMP	Pentane	5.000	5.092	-1.8	100	0.00
15 TMP	Trichlorofluoromethane	5.000	5.458	-9.2	100	0.02
16 TMP	Acetone	5.000	5.272	-5.4	100	0.00
17 TMP	2-Propanol	5.000	5.566	-11.3	100	0.00
18 TMP	1,1-Dichloroethene	5.000	5.086	-1.7	100	0.00
19 TMP	trans-1,2-Dichloroethene	5.000	5.031	-0.6	100	0.00
20 TMP	Methylene chloride	5.000	4.924	1.5	100	0.00
21 TMP	t-Butyl alcohol (TBA)	5.000	5.226	-4.5	100	0.00
22 TMP	3-Chloropropene	5.000	5.398	-8.0	100	0.00
23 TMP	CFC-113	5.000	5.301	-6.0	100	0.00
24 TMP	Carbon disulfide	5.000	5.127	-2.5	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	5.000	5.189	-3.8	100	0.00
26 TMP	Vinyl acetate	5.000	5.251	-5.0	100	0.00
27 TMP	1,1-Dichloroethane	5.000	5.083	-1.7	100	0.00
28 TMP	cis-1,2-Dichloroethene	5.000	4.892	2.2	100	0.00
29 TMP	Hexane	5.000	5.000	0.0	100	0.00
30 TMP	Chloroform	5.000	5.001	-0.0	100	0.00
31 TMP	Ethyl acetate	5.000	5.033	-0.7	100	0.00
32 TMP	Tetrahydrofuran	5.000	5.296	-5.9	100	0.00
33 TMP	2-Butanone (MEK)	5.000	5.255	-5.1	100	0.00
34 TMP	1,2-Dichloroethane (EDC)	5.000	4.840	3.2	97	0.00
35 TMP	1,1,1-Trichloroethane	5.000	5.097	-1.9	100	0.00
36 TMP	Carbon tetrachloride	5.000	5.160	-3.2	100	0.00
37 TMP	Benzene	5.000	4.872	2.6	100	0.00
38 TMP	Cyclohexane	5.000	5.154	-3.1	100	0.02
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	5.000	4.908	1.8	100	0.00
41 TMP	1,4-Dioxane	5.000	4.883	2.3	100	0.00
42 TMP	2,2,4-Trimethylpentane	5.000	5.104	-2.1	100	0.00
43 TMP	Methyl methacrylate	5.000	4.988	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv TO15 69-157-a  
 Misc : cal line  
 AL5 Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	5.000	4.975	0.5	100	0.00
45 TMP Bromodichloromethane	5.000	4.967	0.7	100	0.00
46 TMP Trichloroethene	5.000	4.763	4.7	100	0.00
47 TMP cis-1,3-Dichloropropene	5.000	4.950	1.0	100	0.00
48 TMP 4-Methyl-2-pentanone	5.000	4.582	8.4	100	0.00
49 TMP trans-1,3-Dichloropropene	5.000	5.053	-1.1	100	0.00
50 TMP Toluene	5.000	4.791	4.2	98	0.00
51 TMP 1,1,2-Trichloroethane	5.000	4.867	2.7	100	0.00
52 TMP 2-Hexanone	5.000	5.098	-2.0	100	0.00
53 TMP Tetrachloroethene	5.000	5.002	-0.0	101	0.00
54 TMP Dibromochloromethane	5.000	4.985	0.3	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	5.000	4.783	4.3	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	5.000	4.843	3.1	100	0.00
58 TMP Ethylbenzene	5.000	4.772	4.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	5.000	4.701	6.0	100	0.00
60 TMP Nonane	5.000	4.949	1.0	100	0.00
61 TMP Isopropylbenzene	5.000	4.874	2.5	100	0.00
62 TMP 2-Chlorotoluene	5.000	5.004	-0.1	100	0.00
63 TMP Propylbenzene	5.000	4.999	0.0	100	0.00
64 TMP 4-Ethyltoluene	5.000	5.046	-0.9	100	0.00
65 TMP m,p-Xylene	10.000	9.647	3.5	100	0.00
66 TMP o-Xylene	5.000	4.903	1.9	100	0.00
67 TMP Styrene	5.000	5.167	-3.3	100	0.00
68 TMP Bromoform	5.000	4.847	3.1	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.256	-2.6	100	0.00
70 TMP Benzyl chloride	5.000	5.328	-6.6	100	0.00
71 TMP 1,3,5-Trimethylbenzene	5.000	5.207	-4.1	100	0.00
72 TMP 1,2,4-Trimethylbenzene	5.000	5.486	-9.7	100	0.00
73 TMP 1,3-Dichlorobenzene	5.000	5.154	-3.1	100	0.00
74 TMP 1,4-Dichlorobenzene	5.000	5.153	-3.1	100	0.00
75 TMP 1,2-Dichlorobenzene	5.000	5.143	-2.9	100	0.00
76 TMP 1,2,4-Trichlorobenzene	5.000	5.212	-4.2	100	0.00
77 TMP Naphthalene	5.000	5.093	-1.9	100	0.00
78 TMP Hexachlorobutadiene	5.000	4.950	1.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	1.329	-8.8	100	0.00
3 TMP Dichlorodifluoromethane	4.917	4.995	-1.6	100	0.00
4 TMP Chloromethane	1.713	1.524	11.0	100	0.04
5 TMP F-114	4.288	4.823	-12.5	100	0.00
6 TMP Vinyl chloride	1.937	1.947	-0.5	100	0.00
7 TMP 1,3-Butadiene	1.242	1.303	-4.9	100	0.00
8 TMP Butane	2.483	2.576	-3.7	100	0.04
9 TMP Bromomethane	1.711	1.727	-0.9	100	0.04
10 TMP Chloroethane	0.689	0.708	-2.8	101	0.00
11 TMP Vinyl bromide	1.725	1.773	-2.8	99	0.00
12 TMP Ethanol	0.543	0.562	-3.5	100	0.00
13 TMP Acrolein	0.729	0.728	0.1	99	0.00
14 TMP Pentane	2.839	2.892	-1.9	100	0.00
15 TMP Trichlorofluoromethane	4.796	5.236	-9.2	100	0.02
16 TMP Acetone	0.670	0.707	-5.5	100	0.00
17 TMP 2-Propanol	2.930	3.262	-11.3	100	0.00
18 TMP 1,1-Dichloroethene	1.641	1.669	-1.7	100	0.00
19 TMP trans-1,2-Dichloroethene	1.625	1.635	-0.6	100	0.00
20 TMP Methylene chloride	1.604	1.579	1.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.544	2.659	-4.5	100	0.00
22 TMP 3-Chloropropene	2.076	2.241	-7.9	100	0.00
23 TMP CFC-113	3.525	3.737	-6.0	100	0.00
24 TMP Carbon disulfide	5.324	5.459	-2.5	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.598	-3.8	100	0.00
26 TMP Vinyl acetate	3.863	4.057	-5.0	100	0.00
27 TMP 1,1-Dichloroethane	3.597	3.657	-1.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.736	2.1	100	0.00
29 TMP Hexane	2.181	2.181	0.0	100	0.00
30 TMP Chloroform	4.186	4.187	-0.0	100	0.00
31 TMP Ethyl acetate	3.859	3.884	-0.6	100	0.00
32 TMP Tetrahydrofuran	1.822	1.930	-5.9	100	0.00
33 TMP 2-Butanone (MEK)	0.597	0.628	-5.2	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.744	3.2	97	0.00
35 TMP 1,1,1-Trichloroethane	3.417	3.483	-1.9	100	0.00
36 TMP Carbon tetrachloride	3.530	3.643	-3.2	100	0.00
37 TMP Benzene	5.604	5.461	2.6	100	0.00
38 TMP Cyclohexane	1.400	1.443	-3.1	100	0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.608	1.8	100	0.00
41 TMP 1,4-Dioxane	0.233	0.228	2.1	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.831	1.869	-2.1	100	0.00
43 TMP Methyl methacrylate	0.534	0.533	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072526.D  
 Acq On : 26 Jul 2023 4:30 am  
 Operator : bat  
 Sample : 5.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:25 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 S5 method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO1SDC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.653	0.5	100	0.00
45 TMP Bromodichloromethane	1.004	0.998	0.6	100	0.00
46 TMP Trichloroethene	0.642	0.612	4.7	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.664	1.0	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.037	9.8	100	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.612	-1.0	100	0.00
50 TMP Toluene	0.761	0.729	4.2	98	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.564	2.6	100	0.00
52 TMP 2-Hexanone	0.834	0.850	-1.9	100	0.00
53 TMP Tetrachloroethene	0.450	0.451	-0.2	101	0.00
54 TMP Dibromochloromethane	0.923	0.920	0.3	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.872	4.3	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.035	3.2	100	0.00
58 TMP Ethylbenzene	1.800	1.718	4.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.423	6.0	100	0.00
60 TMP Nonane	0.879	0.870	1.0	100	0.00
61 TMP Isopropylbenzene	1.553	1.514	2.5	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.402	0.0	100	0.00
63 TMP Propylbenzene	3.242	3.241	0.0	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.499	-0.9	100	0.00
65 TMP m,p-Xylene	0.607	0.586	3.5	100	0.00
66 TMP o-Xylene	0.554	0.543	2.0	100	0.00
67 TMP Styrene	0.767	0.793	-3.4	100	0.00
68 TMP Bromoform	0.895	0.867	3.1	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.760	-2.6	100	0.00
70 TMP Benzyl chloride	0.931	0.992	-6.6	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.380	-4.2	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.277	-9.7	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	1.002	-3.1	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.927	-3.0	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.963	-2.9	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.616	-4.4	100	0.00
77 TMP Naphthalene	1.053	1.158	-10.0	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.822	1.1	100	0.00

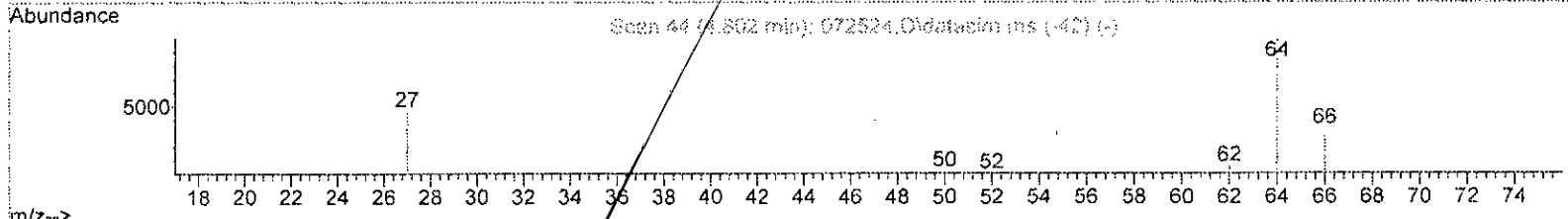
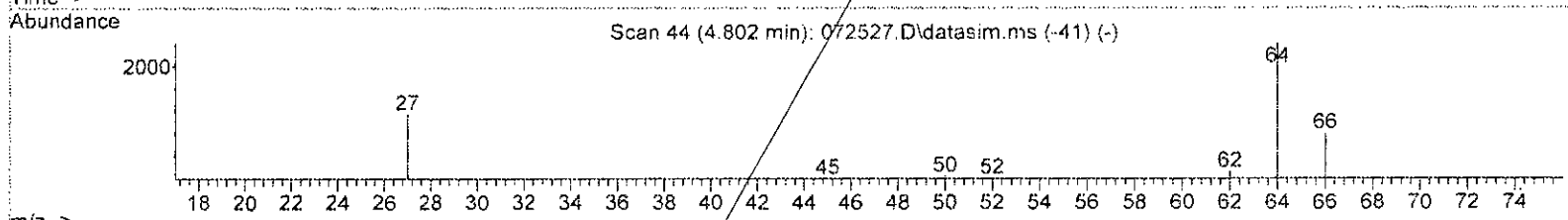
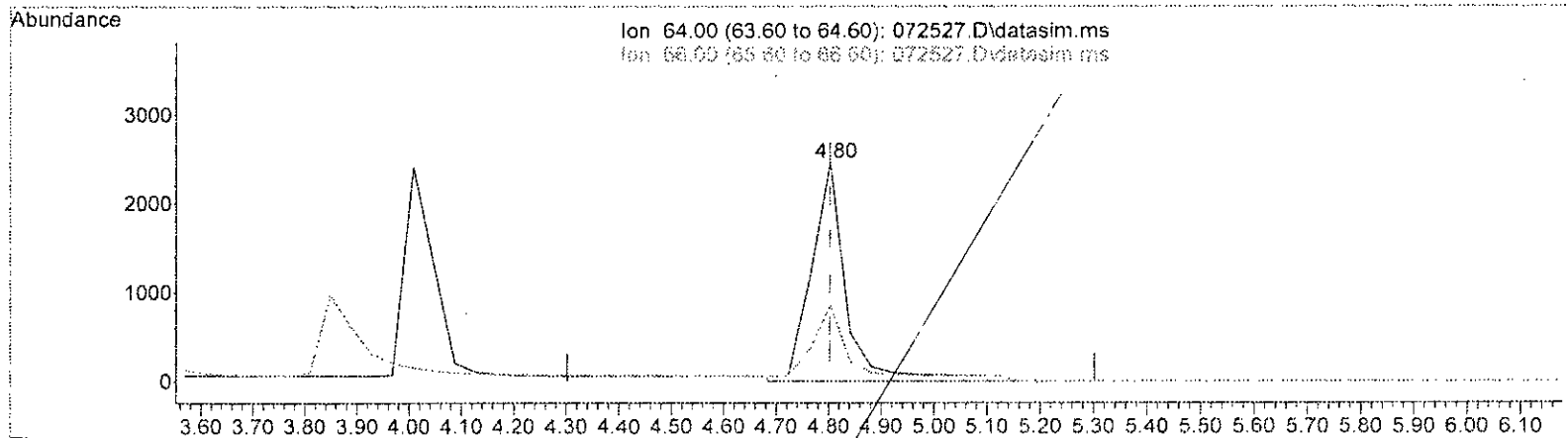
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072527.D\data.ms

(10) Chloroethane (TMP)		
4.802min (+ 0.000)	8.581	ppbv
response	10885	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.58
.00	0.00	0.00
0.00	0.00	0.00

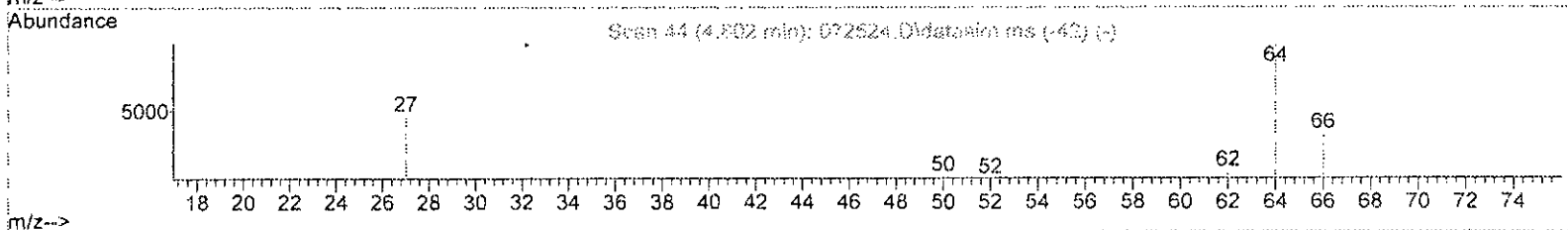
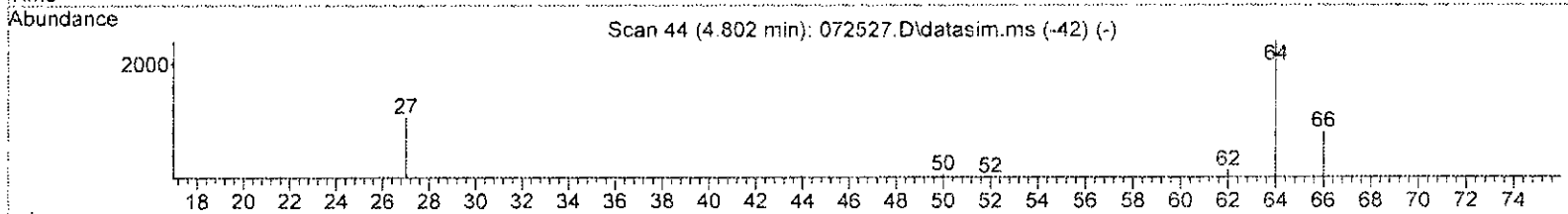
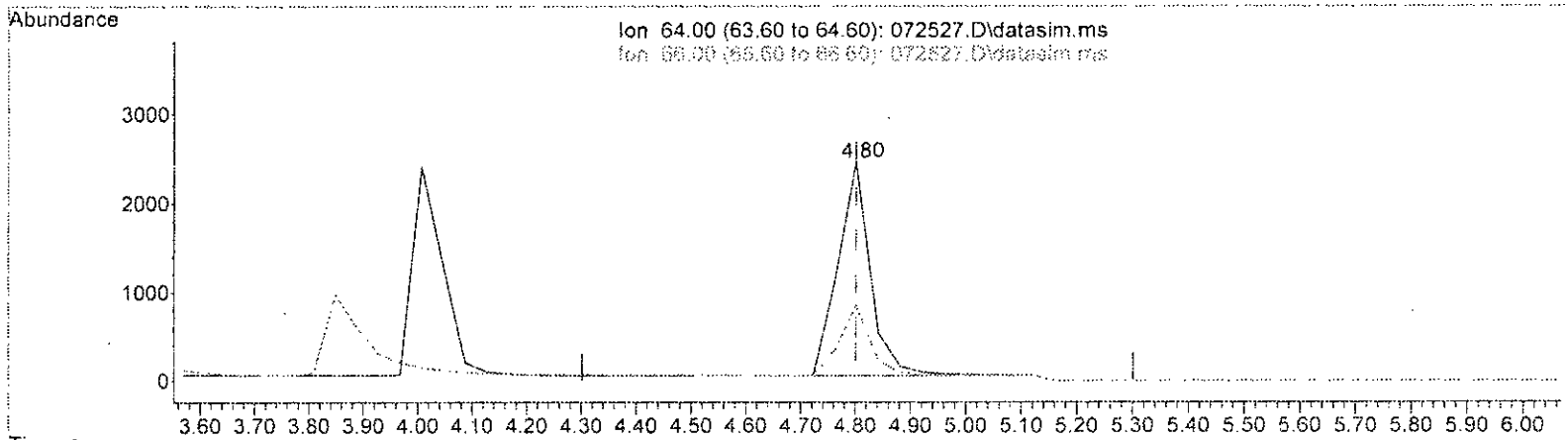
*Handwritten signature: S. Hubs*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072527.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 7.742 ppbv m

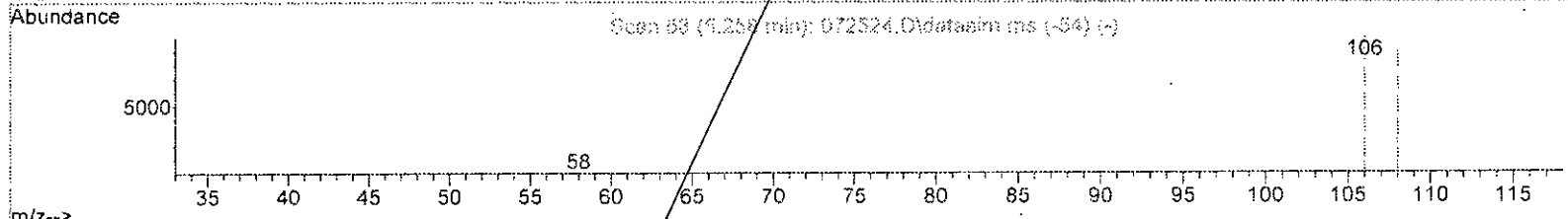
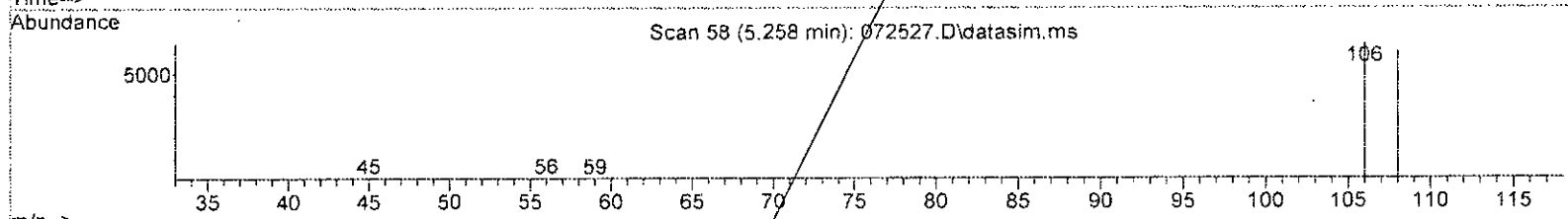
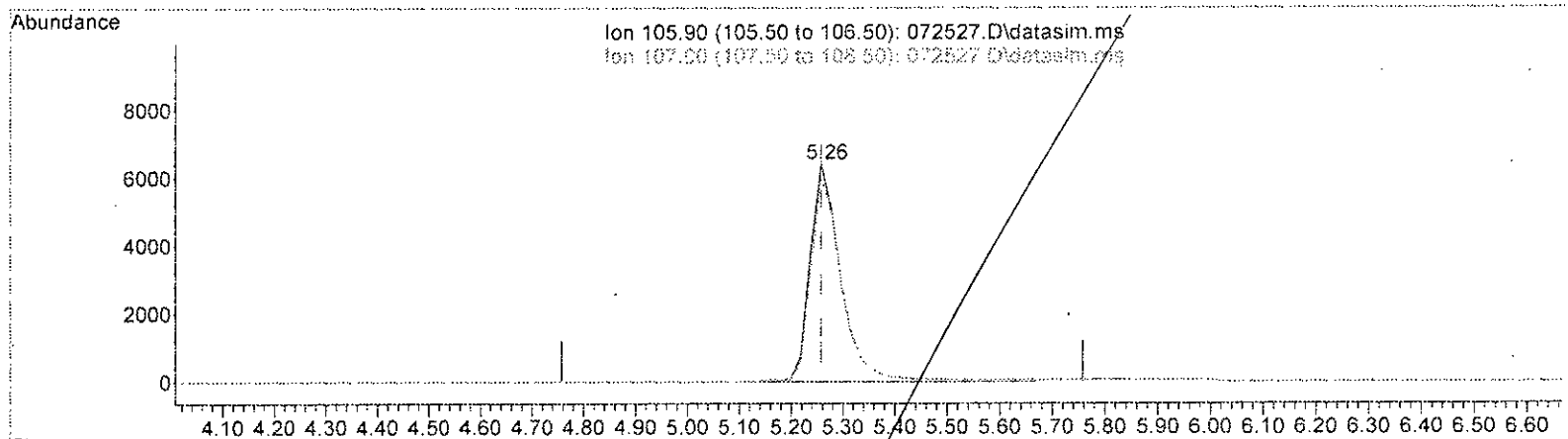
response	9821	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.58
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072527.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 9.071 ppbv

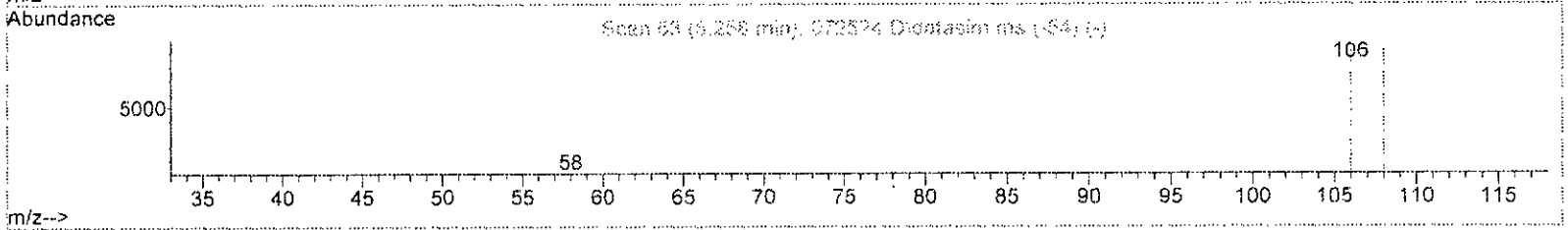
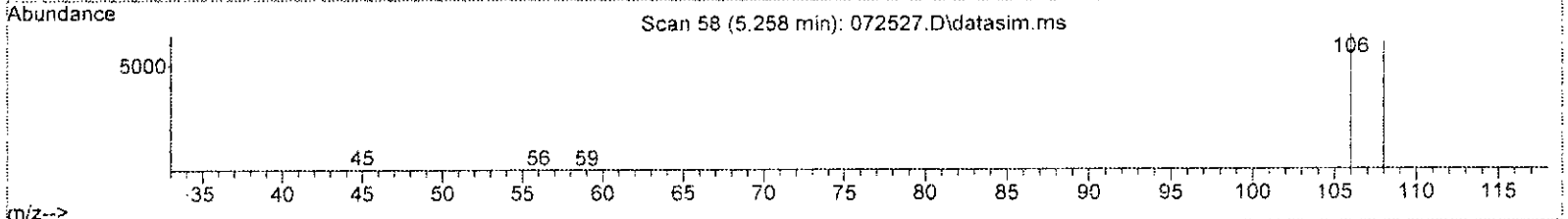
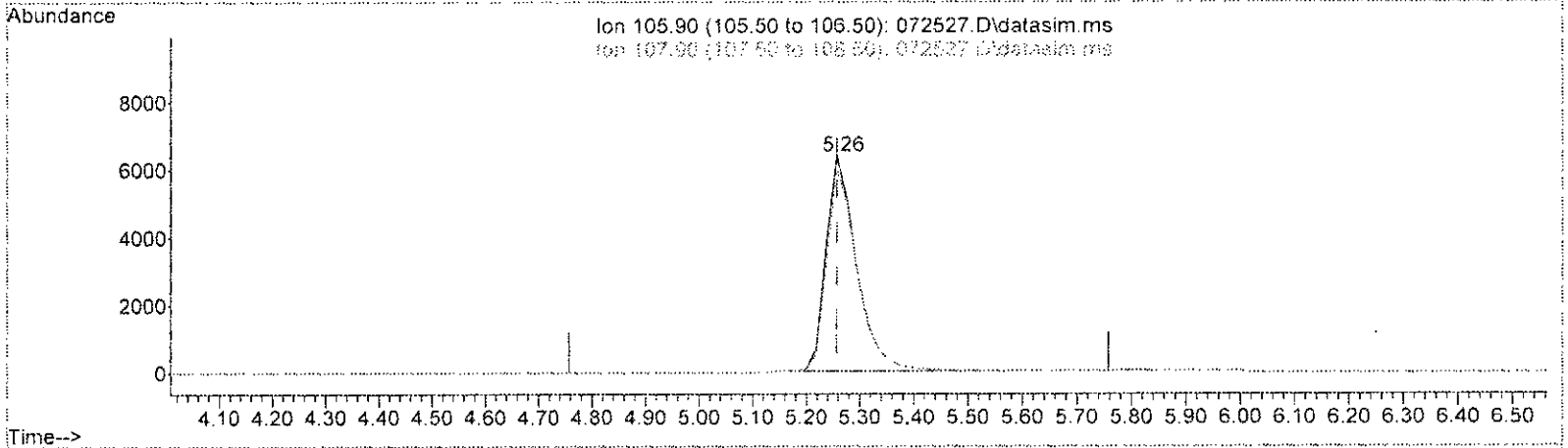
response	28798
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 94.91
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072527.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 8.010 ppbv m

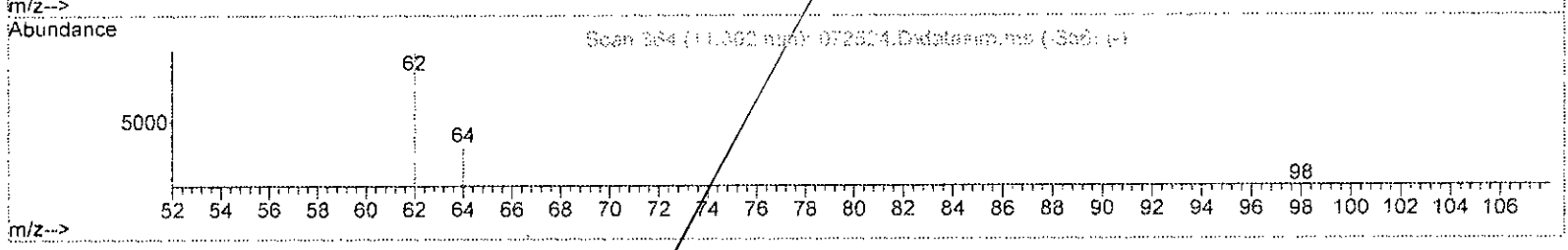
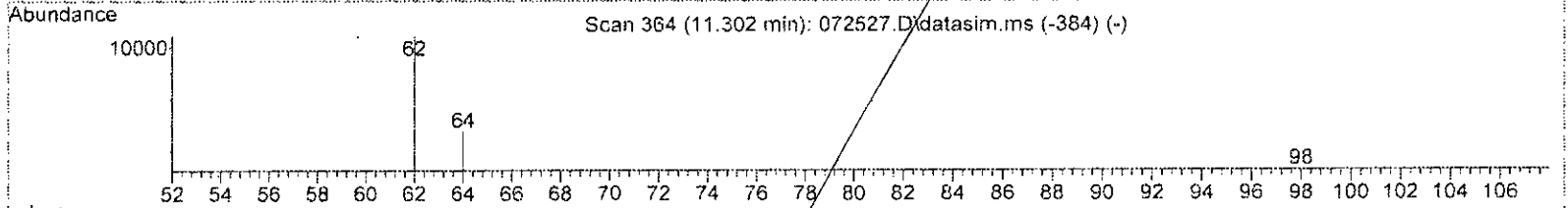
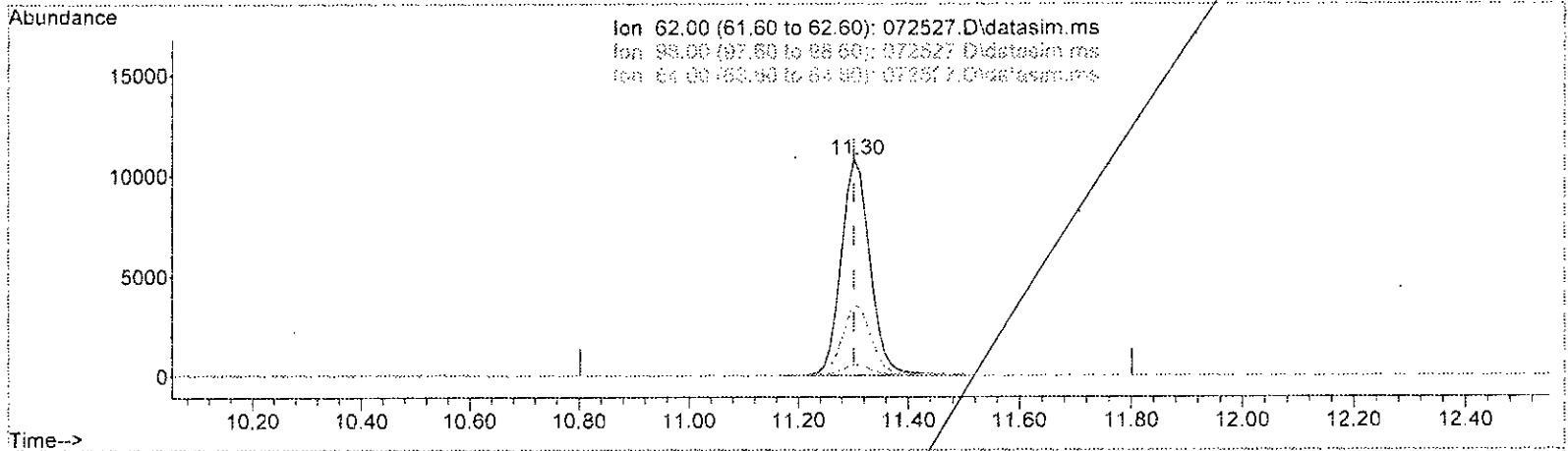
response	25429	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	107.48
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: h/2/1/3*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T01S 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072527.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMR)

11.302min (+ 0.000) 7.562 ppbv

response 39446

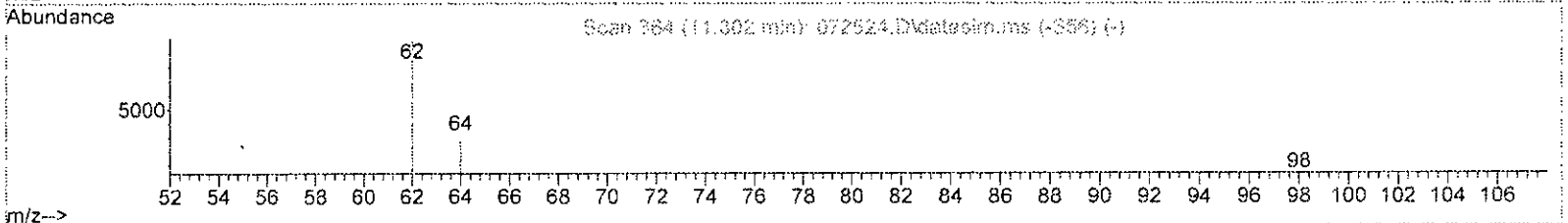
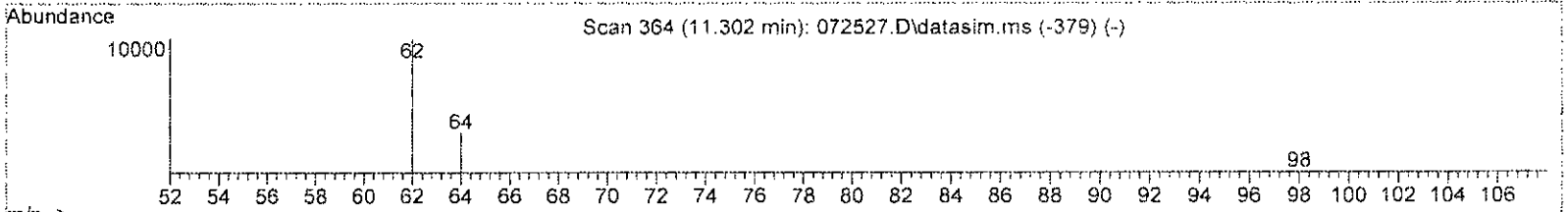
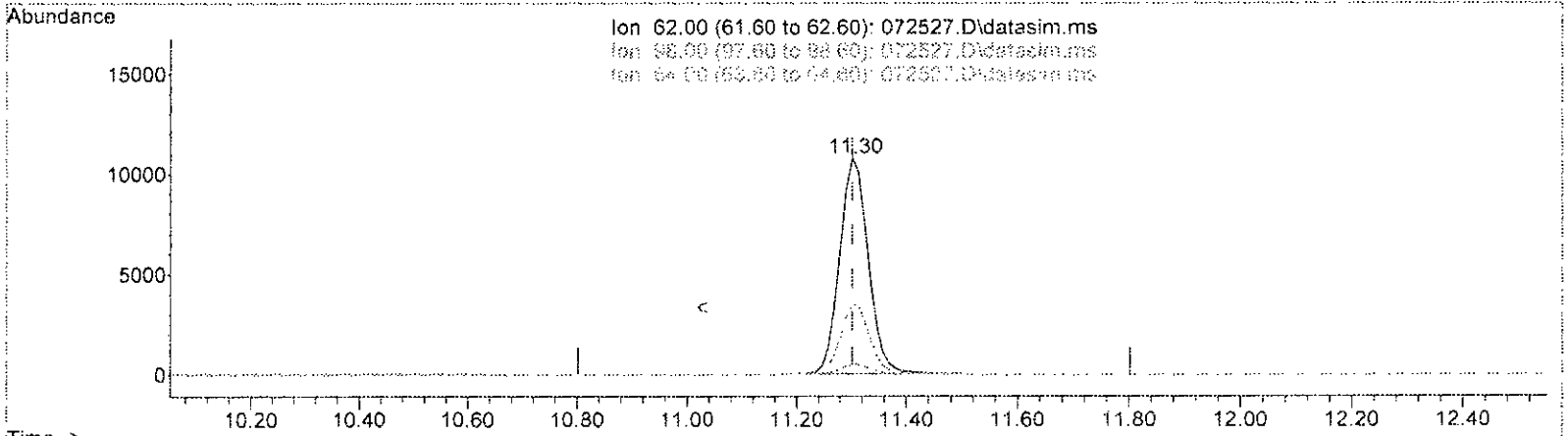
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.66
64.00	33.00	32.43
0.00	0.00	0.00

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072527.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 7.430 ppbv m

response 38755

Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.66
64.00	33.00	32.43
0.00	0.00	0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	18400	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	76702	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	68061	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	51310	10.174	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	16585	7.383	ppbv	92
3) Dichlorodifluoromethane	3.49	85	73917	8.170	ppbv	98
4) Chloromethane	3.69	50	24529	7.781	ppbv	96
5) F-114	3.88	85	68304	8.658	ppbv	99
6) Vinyl chloride	4.01	62	28976	8.132	ppbv	96
7) 1,3-Butadiene	4.21	54	18431	8.065	ppbv #	83
8) Butane	4.28	43	36660	8.023	ppbv	95
9) Bromomethane	4.56	94	25405	8.069	ppbv	99
10) Chloroethane	4.80	64	9821m	7.742	ppbv	
11) Vinyl bromide	5.26	106	25429m	8.010	ppbv	
12) Ethanol	4.92	45	7029	7.029	ppbv	86
13) Acrolein	5.38	56	10929	8.151	ppbv	100
14) Pentane	6.25	43	42587	8.152	ppbv	97
15) Trichlorofluoromethane	5.80	101	74154	8.402	ppbv	98
16) Acetone	5.53	58	10068	8.161	ppbv	98
17) 2-Propanol	5.78	45	46430	8.612	ppbv	99
18) 1,1-Dichloroethene	6.65	96	23549	7.799	ppbv	94
19) trans-1,2-Dichloroethene	8.07	96	23271	7.781	ppbv #	80
20) Methylene chloride	6.75	84	22668	7.682	ppbv	95
21) t-Butyl alcohol (TBA)	6.57	59	38315	8.187	ppbv #	60
22) 3-Chloropropene	6.94	41	32172	8.424	ppbv	96
23) CFC-113	7.15	101	52802	8.141	ppbv	94
24) Carbon disulfide	7.25	76	74941	7.650	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	49432	7.749	ppbv	96
26) Vinyl acetate	8.51	43	56173	7.903	ppbv	98
27) 1,1-Dichloroethane	8.33	63	51437	7.771	ppbv	97
28) cis-1,2-Dichloroethene	9.60	96	24613	7.539	ppbv	85
29) Hexane	9.99	57	32140	8.007	ppbv	95
30) Chloroform	10.07	83	58433	7.586	ppbv	99
31) Ethyl acetate	9.90	43	56332	7.933	ppbv #	99
32) Tetrahydrofuran	10.71	42	27524	8.208	ppbv	97
33) 2-Butanone (MEK)	8.88	72	8679	7.896	ppbv	95
34) 1,2-Dichloroethane (EDC)	11.30	62	38755m	7.430	ppbv	
35) 1,1,1-Trichloroethane	11.79	97	48647	7.737	ppbv	94
36) Carbon tetrachloride	12.83	117	50572	7.786	ppbv	99
37) Benzene	12.58	78	76171	7.387	ppbv	99
38) Cyclohexane	13.05	84	19855	7.706	ppbv	93
40) 1,2-Dichloropropane	13.77	63	37135	7.823	ppbv	98

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

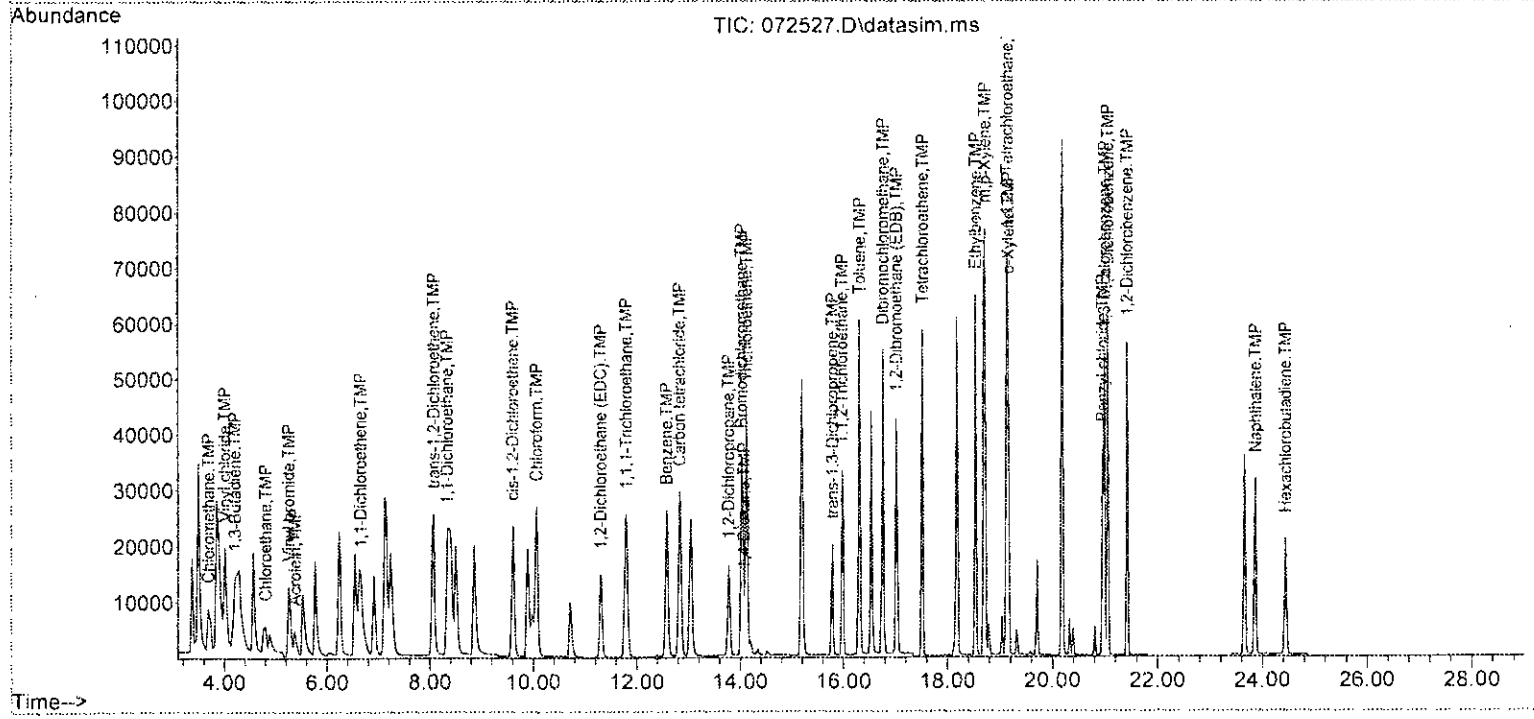
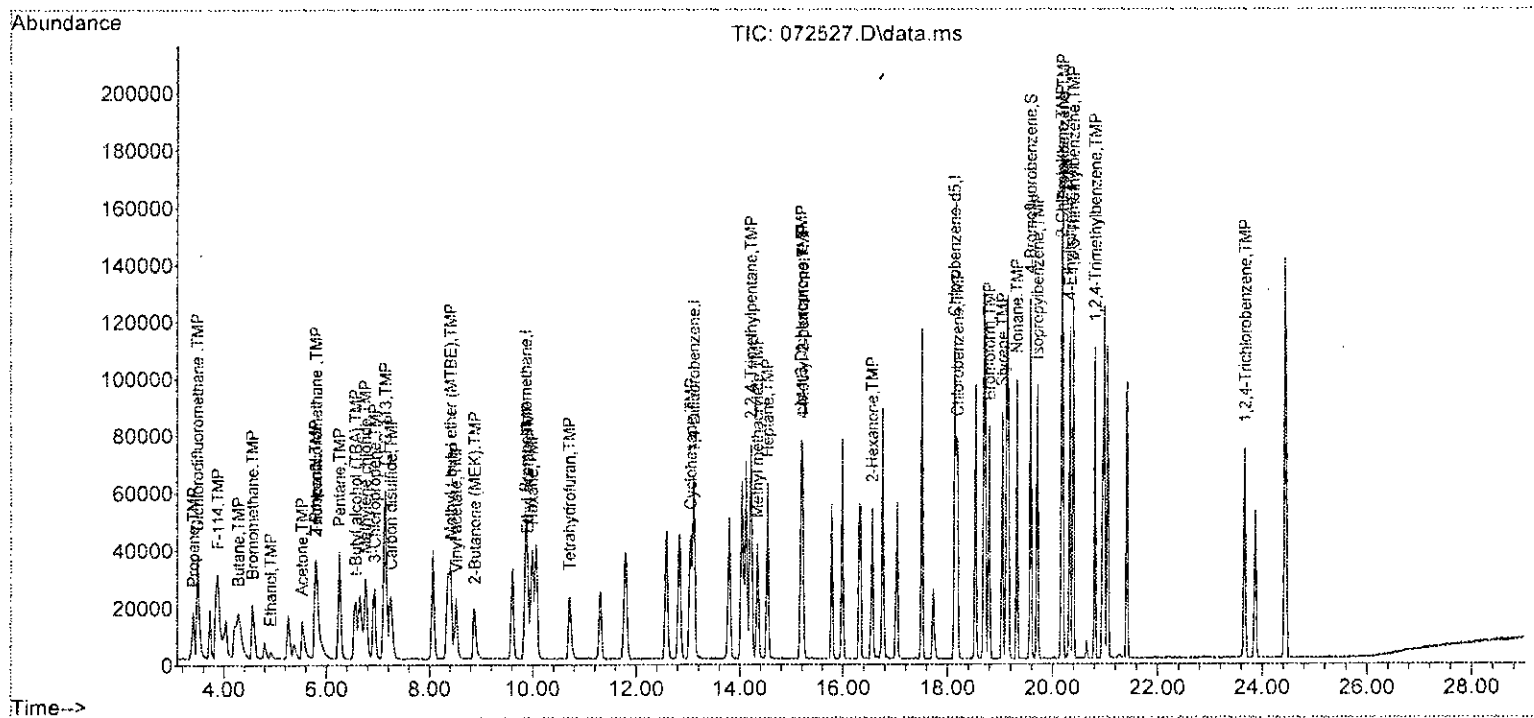
Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	14104	7.878	ppbv	77
42] 2,2,4-Trimethylpentane	14.21	57	112979	8.045	ppbv	95
43] Methyl methacrylate	14.33	41	33345	8.134	ppbv #	94
44] Heptane	14.53	43	39586	7.862	ppbv	99
45] Bromodichloromethane	14.02	83	60661	7.877	ppbv	99
46] Trichloroethene	14.12	95	36910	7.492	ppbv	97
47] cis-1,3-Dichloropropene	15.18	75	41597	8.083	ppbv	99
48] 4-Methyl-2-pentanone	15.20	100	2459	7.902	ppbv #	40
49] trans-1,3-Dichloropropene	15.78	75	37928	8.161	ppbv	94
50] Toluene	16.31	92	45123	7.735	ppbv	87
51] 1,1,2-Trichloroethane	15.98	83	36053	8.116	ppbv	98
52] 2-Hexanone	16.56	43	52440	8.197	ppbv	97
53] Tetrachloroethene	17.52	164	27302	7.903	ppbv	92
54] Dibromochloromethane	16.76	129	56434	7.970	ppbv	92
55] 1,2-Dibromoethane (EDB)	17.01	107	52204	7.468	ppbv	83
57] Chlorobenzene	18.19	112	55706	7.659	ppbv	97
58] Ethylbenzene	18.53	91	91402	7.460	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	74869	7.267	ppbv	92
60] Nonane	19.32	43	44721	7.479	ppbv	95
61] Isopropylbenzene	19.72	105	81177	7.680	ppbv	99
62] 2-Chlorotoluene	20.17	126	20900	7.637	ppbv	99
63] Propylbenzene	20.19	91	170841	7.742	ppbv	97
64] 4-Ethyltoluene	20.33	105	82049	8.116	ppbv	99
65] m,p-Xylene	18.70	106	62125	15.033	ppbv	99
66] o-Xylene	19.15	106	28743	7.627	ppbv	94
67] Styrene	19.05	104	43412	8.314	ppbv	99
68] Bromoform	18.80	173	46112	7.572	ppbv	97
70] Benzyl chloride	20.95	91	54687	8.629	ppbv	91
71] 1,3,5-Trimethylbenzene	20.39	105	75712	8.397	ppbv	99
72] 1,2,4-Trimethylbenzene	20.81	105	69699	8.800	ppbv	98
73] 1,3-Dichlorobenzene	20.99	146	53311	8.061	ppbv	89
74] 1,4-Dichlorobenzene	21.05	146	49693	8.113	ppbv	93
75] 1,2-Dichlorobenzene	21.41	146	52252	8.203	ppbv	96
76] 1,2,4-Trichlorobenzene	23.67	180	34130	8.493	ppbv	97
77] Naphthalene	23.86	128	65916	8.108	ppbv	99
78] Hexachlorobutadiene	24.44	225	44154	7.811	ppbv	99

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
Data File : 072527.D  
Acq On : 26 Jul 2023 5:07 am  
Operator : bat  
Sample : 8.0 ppbv T015 69-157-a  
Misc : cal line  
ALS Vial : 27 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Thu Jul 27 16:51:38 2023  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M





Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	8.000	7.383	7.7	100	0.00
3 TMP Dichlorodifluoromethane	8.000	8.170	-2.1	100	0.00
4 TMP Chloromethane	8.000	7.781	2.7	100	0.00
5 TMP F-114	8.000	8.658	-8.2	100	0.00
6 TMP Vinyl chloride	8.000	8.132	-1.6	100	0.00
7 TMP 1,3-Butadiene	8.000	8.065	-0.8	100	0.00
8 TMP Butane	8.000	8.023	-0.3	100	0.00
9 TMP Bromomethane	8.000	8.069	-0.9	100	0.00
10 TMP Chloroethane	8.000	7.742	3.2	100	0.00
11 TMP Vinyl bromide	8.000	8.010	-0.1	100	0.00
12 TMP Ethanol	8.000	7.029	12.1	100	0.00
13 TMP Acrolein	8.000	8.151	-1.9	105	0.00
14 TMP Pentane	8.000	8.152	-1.9	100	0.00
15 TMP Trichlorofluoromethane	8.000	8.402	-5.0	100	0.00
16 TMP Acetone	8.000	8.161	-2.0	100	-0.02
17 TMP 2-Propanol	8.000	8.612	-7.7	100	0.00
18 TMP 1,1-Dichloroethene	8.000	7.799	2.5	100	0.00
19 TMP trans-1,2-Dichloroethene	8.000	7.781	2.7	100	0.00
20 TMP Methylene chloride	8.000	7.682	4.0	100	-0.03
21 TMP t-Butyl alcohol (TBA)	8.000	8.187	-2.3	100	0.00
22 TMP 3-Chloropropene	8.000	8.424	-5.3	100	0.00
23 TMP CFC-113	8.000	8.141	-1.8	100	0.00
24 TMP Carbon disulfide	8.000	7.650	4.4	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	8.000	7.749	3.1	100	0.00
26 TMP Vinyl acetate	8.000	7.903	1.2	100	0.00
27 TMP 1,1-Dichloroethane	8.000	7.771	2.9	100	0.00
28 TMP cis-1,2-Dichloroethene	8.000	7.539	5.8	100	0.00
29 TMP Hexane	8.000	8.007	-0.1	100	0.00
30 TMP Chloroform	8.000	7.586	5.2	100	0.00
31 TMP Ethyl acetate	8.000	7.933	0.8	100	0.00
32 TMP Tetrahydrofuran	8.000	8.208	-2.6	100	0.00
33 TMP 2-Butanone (MEK)	8.000	7.896	1.3	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	8.000	7.430	7.1	100	0.00
35 TMP 1,1,1-Trichloroethane	8.000	7.737	3.3	100	0.00
36 TMP Carbon tetrachloride	8.000	7.786	2.7	100	0.00
37 TMP Benzene	8.000	7.387	7.7	100	0.00
38 TMP Cyclohexane	8.000	7.706	3.7	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	8.000	7.823	2.2	101	0.00
41 TMP 1,4-Dioxane	8.000	7.878	1.5	100	0.00
42 TMP 2,2,4-Trimethylpentane	8.000	8.045	-0.6	100	0.00
43 TMP Methyl methacrylate	8.000	8.134	-1.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	8.000	7.862	1.7	100	0.00
45 TMP Bromodichloromethane	8.000	7.877	1.5	100	0.00
46 TMP Trichloroethene	8.000	7.492	6.3	100	0.00
47 TMP cis-1,3-Dichloropropene	8.000	8.083	-1.0	100	0.00
48 TMP 4-Methyl-2-pentanone	8.000	7.902	1.2	100	0.00
49 TMP trans-1,3-Dichloropropene	8.000	8.161	-2.0	100	0.00
50 TMP Toluene	8.000	7.735	3.3	100	0.00
51 TMP 1,1,2-Trichloroethane	8.000	8.116	-1.4	100	0.00
52 TMP 2-Hexanone	8.000	8.197	-2.5	100	0.00
53 TMP Tetrachloroethene	8.000	7.903	1.2	101	0.00
54 TMP Dibromochloromethane	8.000	7.970	0.4	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	8.000	7.468	6.7	99	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	8.000	7.659	4.3	100	0.00
58 TMP Ethylbenzene	8.000	7.460	6.8	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	8.000	7.267	9.2	100	0.00
60 TMP Nonane	8.000	7.479	6.5	100	0.00
61 TMP Isopropylbenzene	8.000	7.680	4.0	100	0.00
62 TMP 2-Chlorotoluene	8.000	7.637	4.5	100	0.00
63 TMP Propylbenzene	8.000	7.742	3.2	100	0.00
64 TMP 4-Ethyltoluene	8.000	8.116	-1.4	100	0.00
65 TMP m,p-Xylene	16.000	15.033	6.0	100	0.00
66 TMP o-Xylene	8.000	7.627	4.7	100	0.00
67 TMP Styrene	8.000	8.314	-3.9	100	0.00
68 TMP Bromoform	8.000	7.572	5.3	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.174	-1.7	100	0.00
70 TMP Benzyl chloride	8.000	8.629	-7.9	100	0.00
71 TMP 1,3,5-Trimethylbenzene	8.000	8.397	-5.0	100	0.00
72 TMP 1,2,4-Trimethylbenzene	8.000	8.800	-10.0	100	0.00
73 TMP 1,3-Dichlorobenzene	8.000	8.061	-0.8	100	0.00
74 TMP 1,4-Dichlorobenzene	8.000	8.113	-1.4	100	0.00
75 TMP 1,2-Dichlorobenzene	8.000	8.203	-2.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	8.000	8.493	-6.2	100	0.00
77 TMP Naphthalene	8.000	8.108	-1.4	100	0.00
78 TMP Hexachlorobutadiene	8.000	7.811	2.4	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP	Propene	1.221	1.127	7.7	100	0.00
3 TMP	Dichlorodifluoromethane	4.917	5.022	-2.1	100	0.00
4 TMP	Chloromethane	1.713	1.666	2.7	100	0.00
5 TMP	F-114	4.288	4.640	-8.2	100	0.00
6 TMP	Vinyl chloride	1.937	1.968	-1.6	100	0.00
7 TMP	1,3-Butadiene	1.242	1.252	-0.8	100	0.00
8 TMP	Butane	2.483	2.490	-0.3	100	0.00
9 TMP	Bromomethane	1.711	1.726	-0.9	100	0.00
10 TMP	Chloroethane	0.689	0.667	3.2	100	0.00
11 TMP	Vinyl bromide	1.725	1.728	-0.2	100	0.00
12 TMP	Ethanol	0.543	0.478	12.0	100	0.00
13 TMP	Acrolein	0.729	0.742	-1.8	105	0.00
14 TMP	Pentane	2.839	2.893	-1.9	100	0.00
15 TMP	Trichlorofluoromethane	4.796	5.038	-5.0	100	0.00
16 TMP	Acetone	0.670	0.684	-2.1	100	-0.02
17 TMP	2-Propanol	2.930	3.154	-7.6	100	0.00
18 TMP	1,1-Dichloroethene	1.641	1.600	2.5	100	0.00
19 TMP	trans-1,2-Dichloroethene	1.625	1.581	2.7	100	0.00
20 TMP	Methylene chloride	1.604	1.540	4.0	100	-0.03
21 TMP	t-Butyl alcohol (TBA)	2.544	2.603	-2.3	100	0.00
22 TMP	3-Chloropropene	2.076	2.186	-5.3	100	0.00
23 TMP	CFC-113	3.525	3.587	-1.8	100	0.00
24 TMP	Carbon disulfide	5.324	5.091	4.4	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	3.467	3.358	3.1	100	0.00
26 TMP	Vinyl acetate	3.863	3.816	1.2	100	0.00
27 TMP	1,1-Dichloroethane	3.597	3.494	2.9	100	0.00
28 TMP	cis-1,2-Dichloroethene	1.774	1.672	5.7	100	0.00
29 TMP	Hexane	2.181	2.183	-0.1	100	0.00
30 TMP	Chloroform	4.186	3.970	5.2	100	0.00
31 TMP	Ethyl acetate	3.859	3.827	0.8	100	0.00
32 TMP	Tetrahydrofuran	1.822	1.870	-2.6	100	0.00
33 TMP	2-Butanone (MEK)	0.597	0.590	1.2	100	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.835	2.633	7.1	100	0.00
35 TMP	1,1,1-Trichloroethane	3.417	3.305	3.3	100	0.00
36 TMP	Carbon tetrachloride	3.530	3.436	2.7	100	0.00
37 TMP	Benzene	5.604	5.175	7.7	100	0.00
38 TMP	Cyclohexane	1.400	1.349	3.6	100	0.02
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.619	0.605	2.3	101	0.00
41 TMP	1,4-Dioxane	0.233	0.230	1.3	100	0.00
42 TMP	2,2,4-Trimethylpentane	1.831	1.841	-0.5	100	0.00
43 TMP	Methyl methacrylate	0.534	0.543	-1.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072527.D  
 Acq On : 26 Jul 2023 5:07 am  
 Operator : bat  
 Sample : 8.0 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:36 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.645	1.7	100	0.00
45 TMP Bromodichloromethane	1.004	0.989	1.5	100	0.00
46 TMP Trichloroethene	0.642	0.602	6.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.678	-1.0	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.040	2.4	100	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.618	-2.0	100	0.00
50 TMP Toluene	0.761	0.735	3.4	100	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.588	-1.6	100	0.00
52 TMP 2-Hexanone	0.834	0.855	-2.5	100	0.00
53 TMP Tetrachloroethene	0.450	0.445	1.1	101	0.00
54 TMP Dibromochloromethane	0.923	0.920	0.3	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.851	6.6	99	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.023	4.3	100	0.00
58 TMP Ethylbenzene	1.800	1.679	6.7	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.375	9.2	100	0.00
60 TMP Nonane	0.879	0.821	6.6	100	0.00
61 TMP Isopropylbenzene	1.553	1.491	4.0	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.384	4.5	100	0.00
63 TMP Propylbenzene	3.242	3.138	3.2	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.507	-1.5	100	0.00
65 TMP m,p-Xylene	0.607	0.570	6.1	100	0.00
66 TMP o-Xylene	0.554	0.528	4.7	100	0.00
67 TMP Styrene	0.767	0.797	-3.9	100	0.00
68 TMP Bromoform	0.895	0.847	5.4	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.754	-1.8	100	0.00
70 TMP Benzyl chloride	0.931	1.004	-7.8	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.391	-5.0	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.280	-10.0	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.979	-0.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.913	-1.4	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.960	-2.6	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.627	-6.3	100	0.00
77 TMP Naphthalene	1.053	1.211	-15.0	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.811	2.4	100	0.00

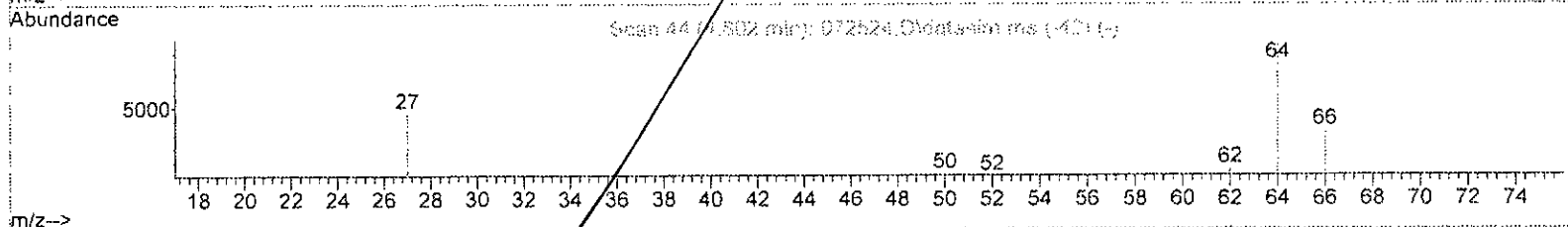
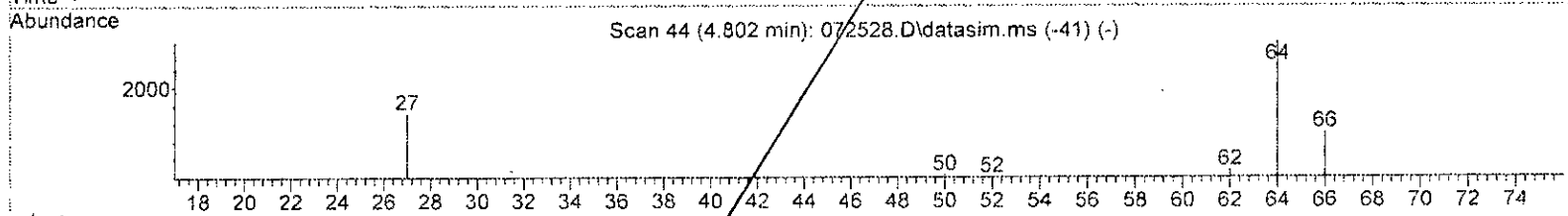
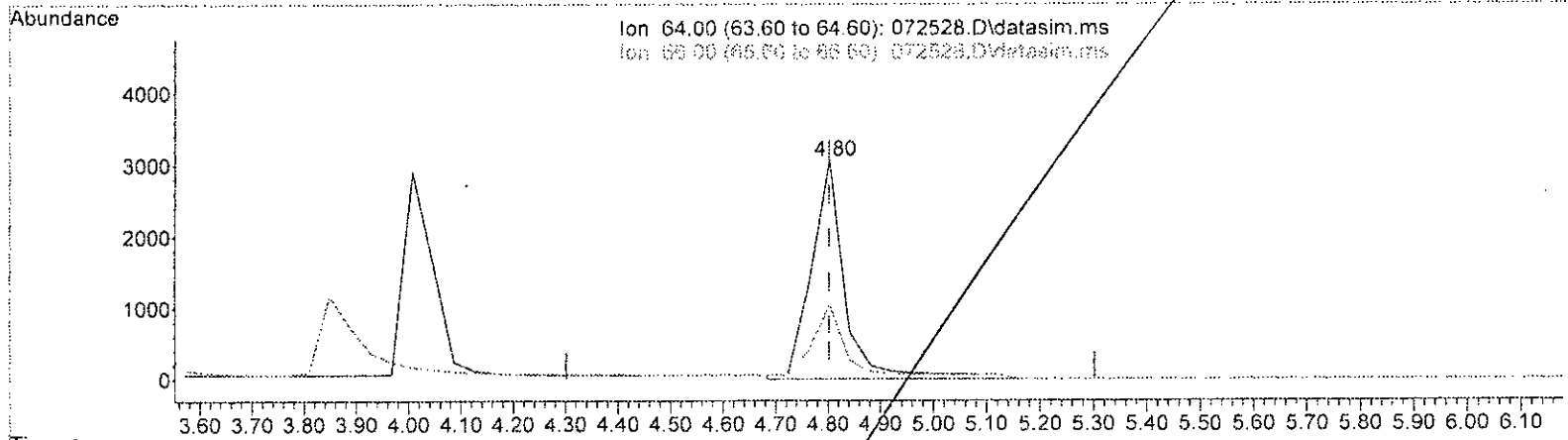
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072528.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 10.232 ppbv

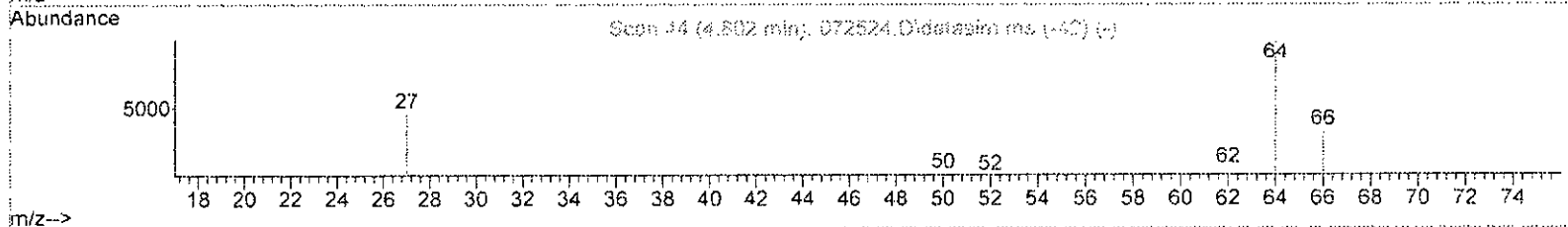
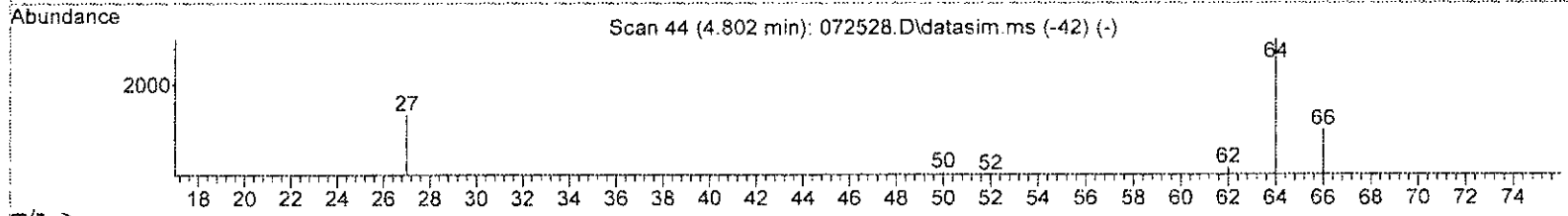
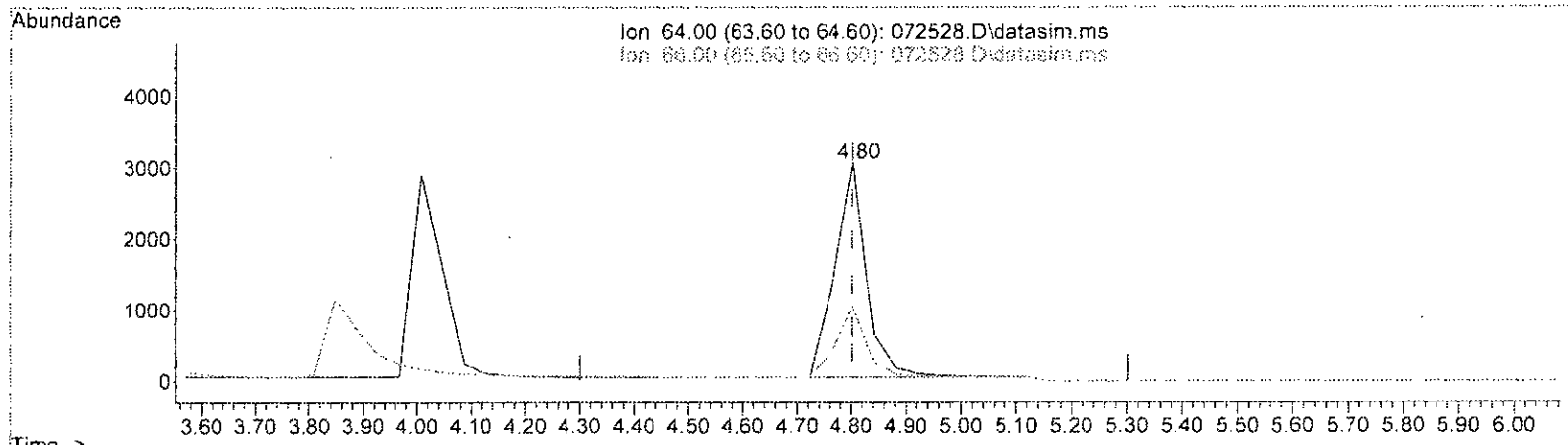
response	13039
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 34.07
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072528.D\data.ms

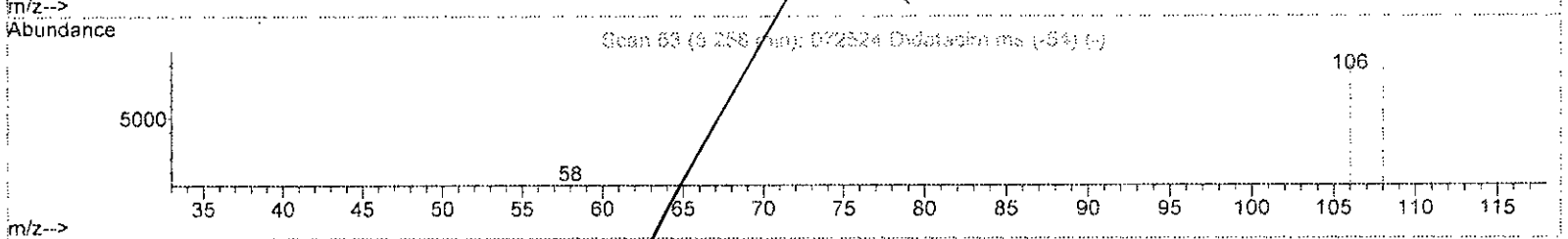
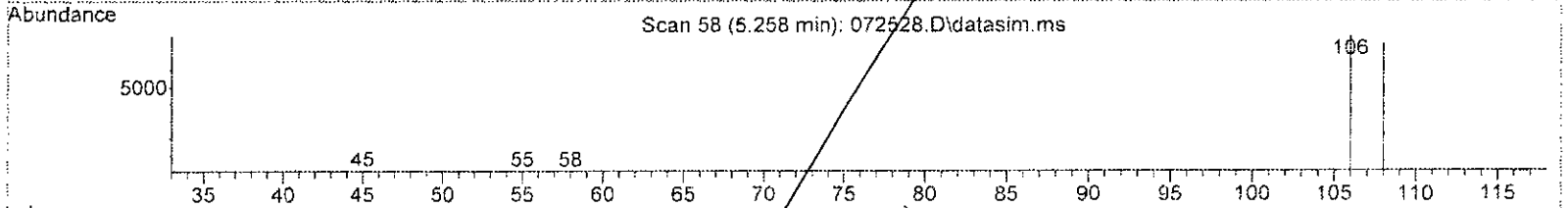
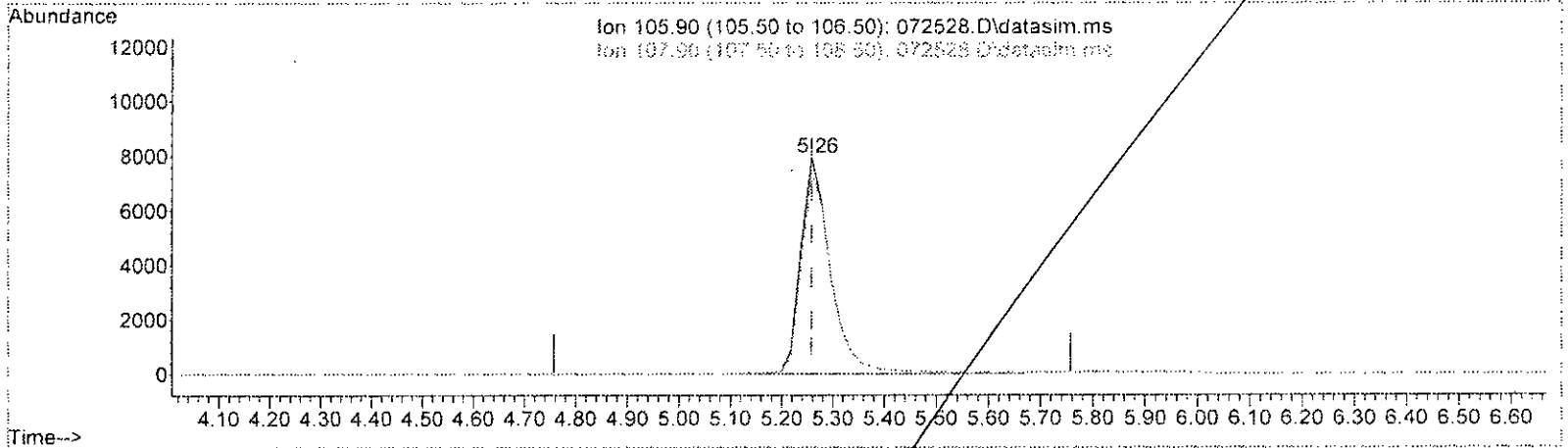
(10) Chloroethane (TMP)		
4.802min (+ 0.000)	9.480 ppbv m	
response	12081	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.07
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: Hubs*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072528.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 10.975 ppbv

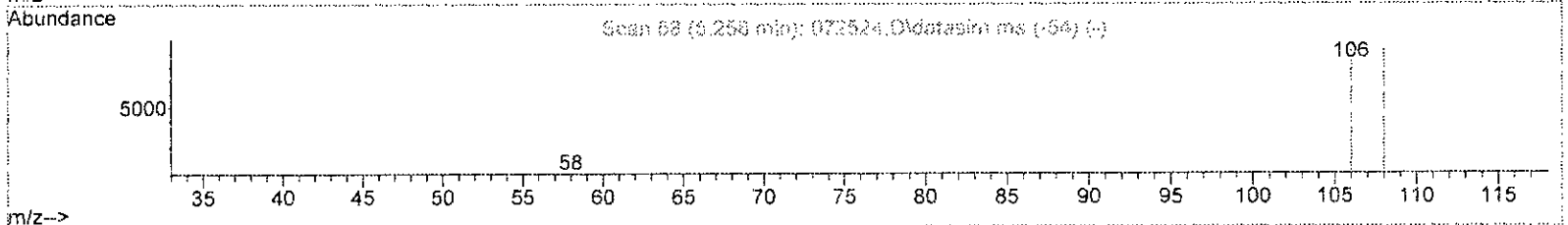
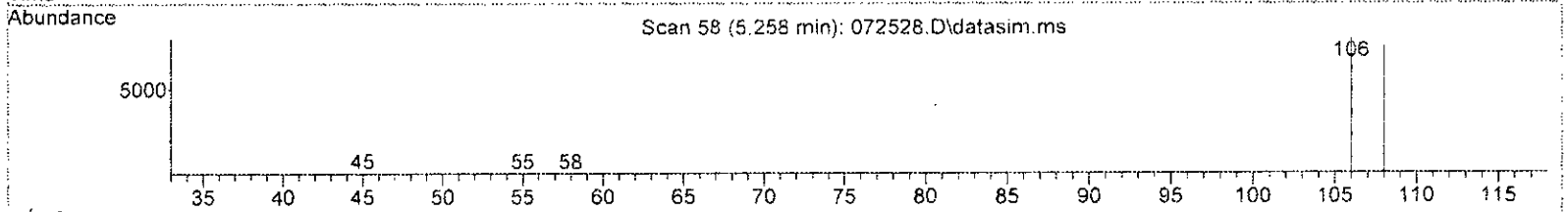
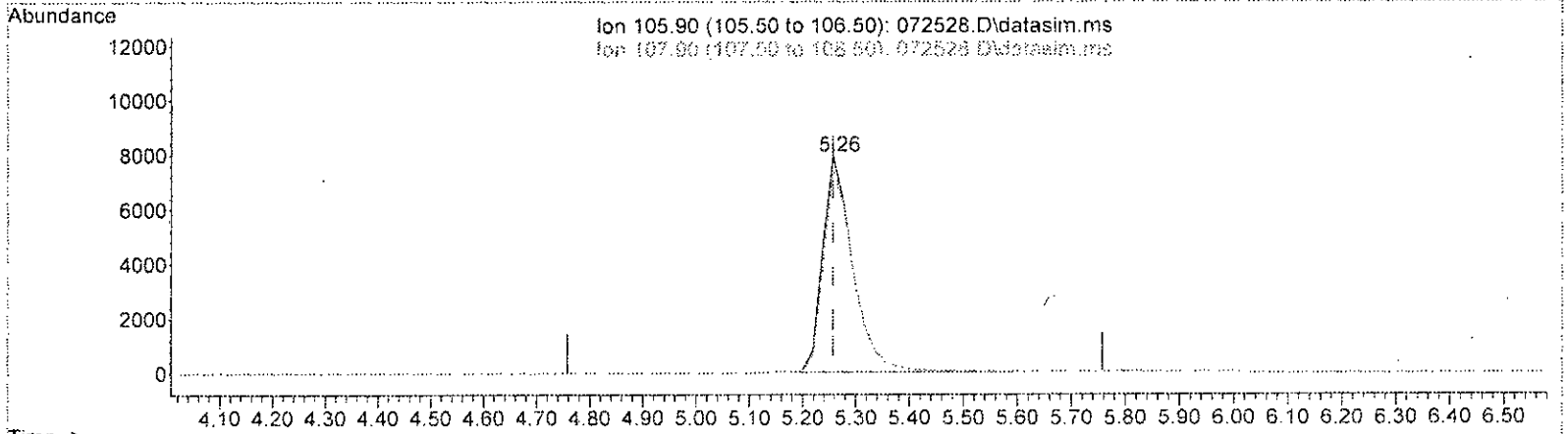
response	35001	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.77
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072528.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 9.812 ppbv m

response	31291
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 106.00
0.00	0.00 0.00
0.00	0.00 0.00

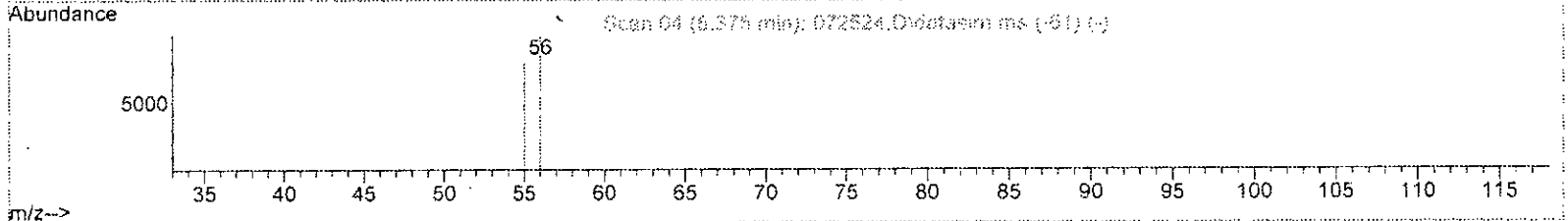
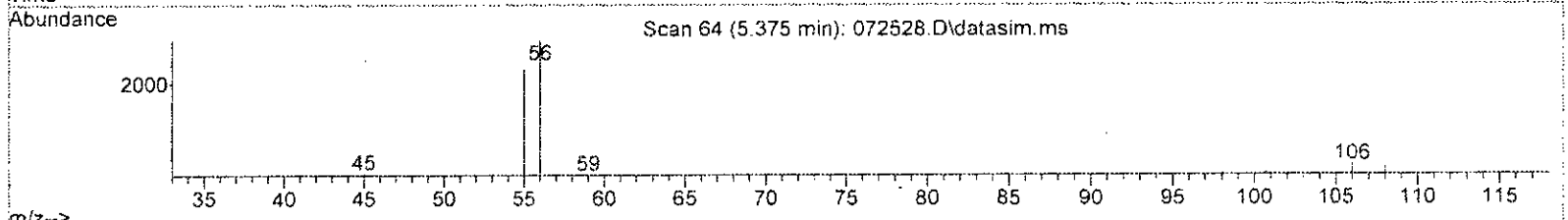
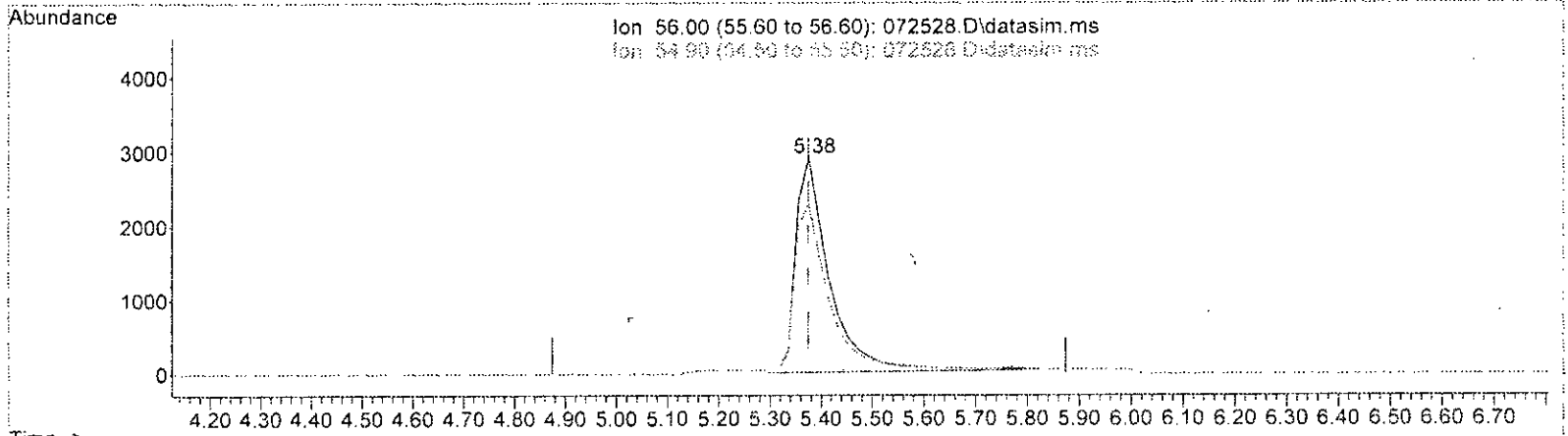
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072528.D\data.ms

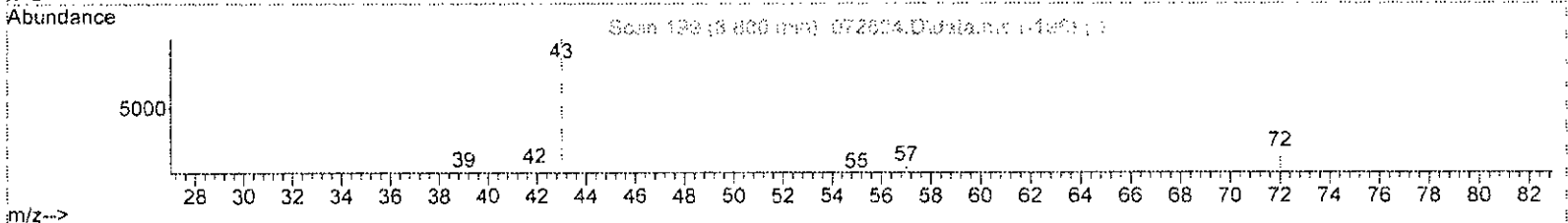
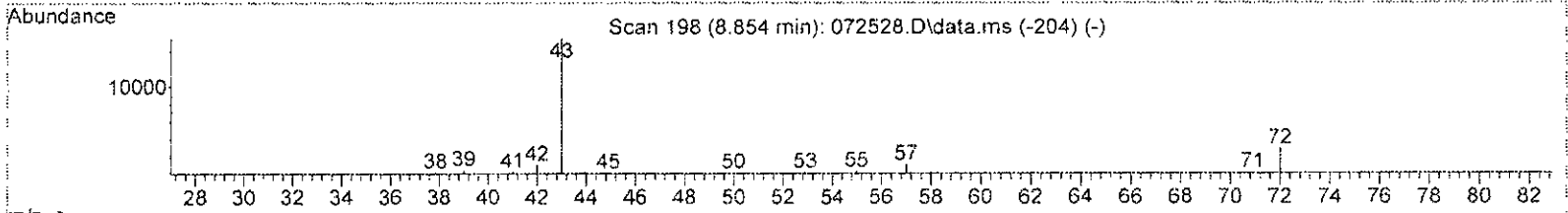
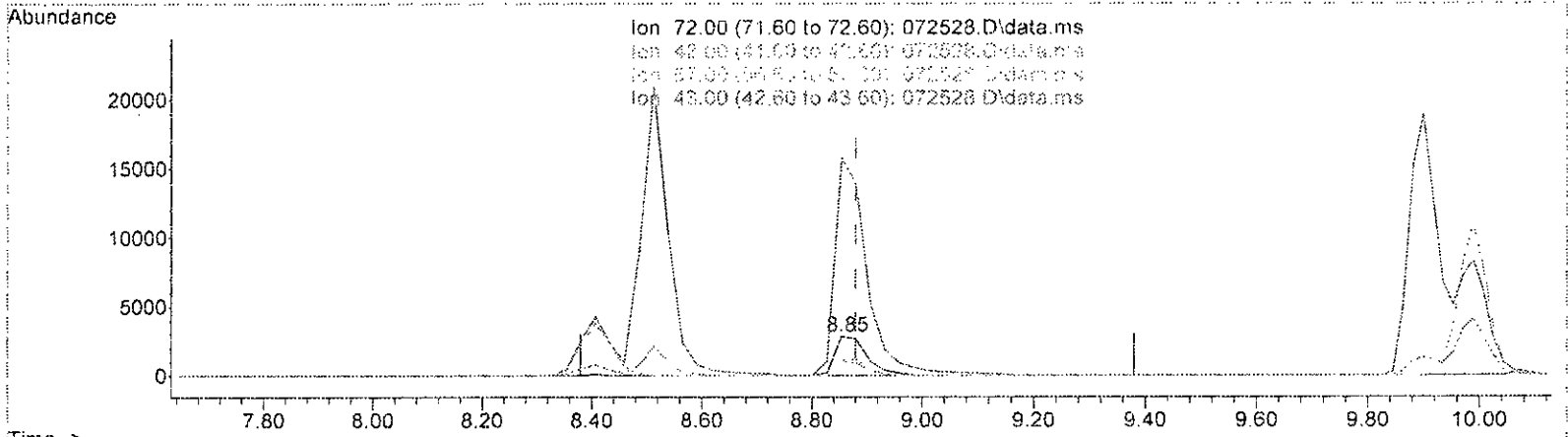
(13) Acrolein (TMP)		
5.375min (+ 0.000)	9.945 ppbv	
response	13395	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	80.75
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: 5/2/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072528.D\data.ms

(33) 2-Butanone (MEK) (TMP)  
 8.854min (-0.026) 10.275 ppbv

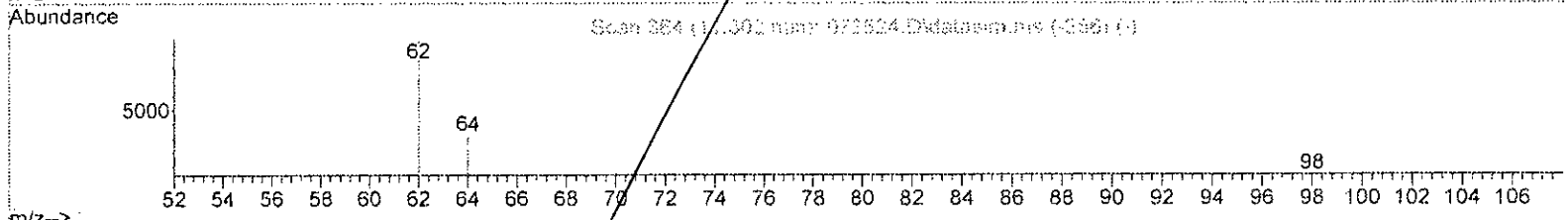
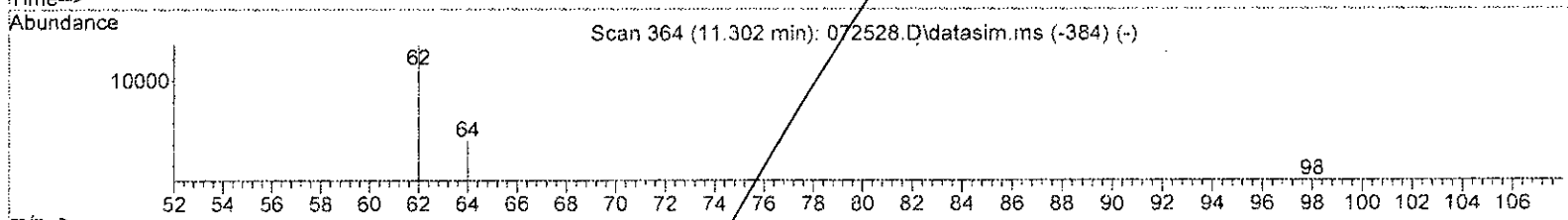
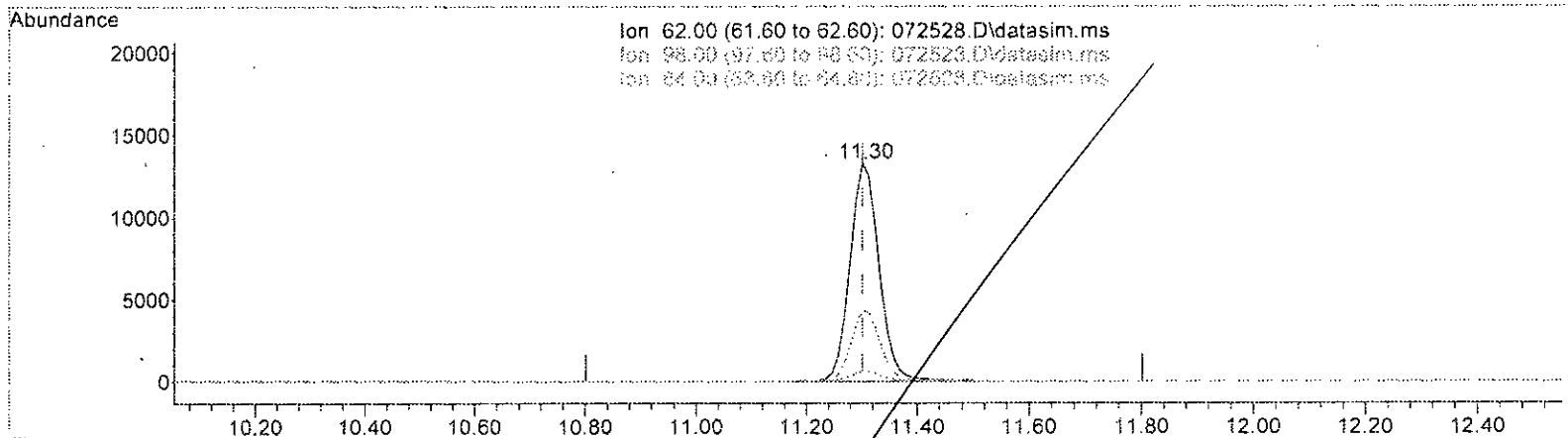
response	11346
Ion	Exp% Act%
72.00	100.00 100.00
42.00	29.90 36.05
57.00	44.20 38.17
43.00	521.60 555.29#

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072528.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 9.204 ppbv

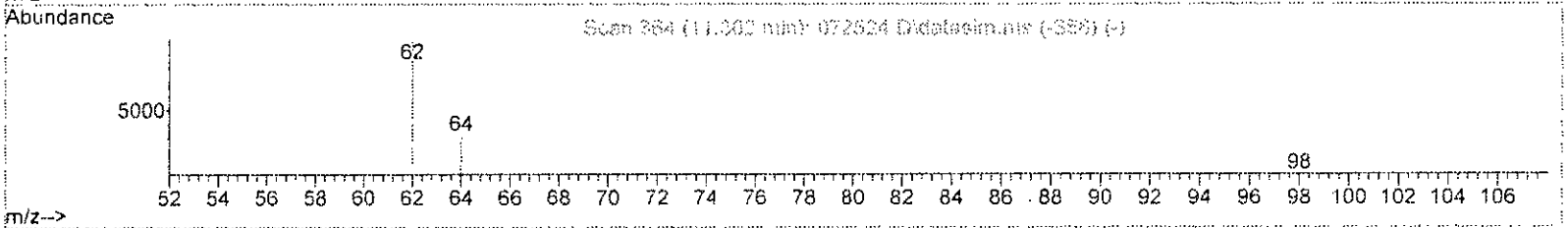
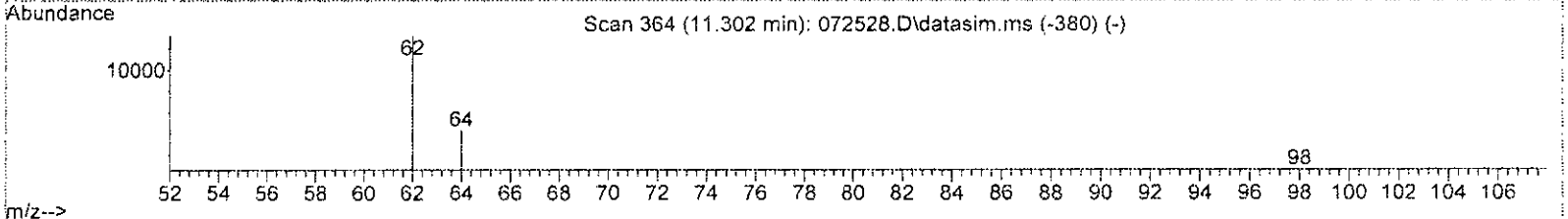
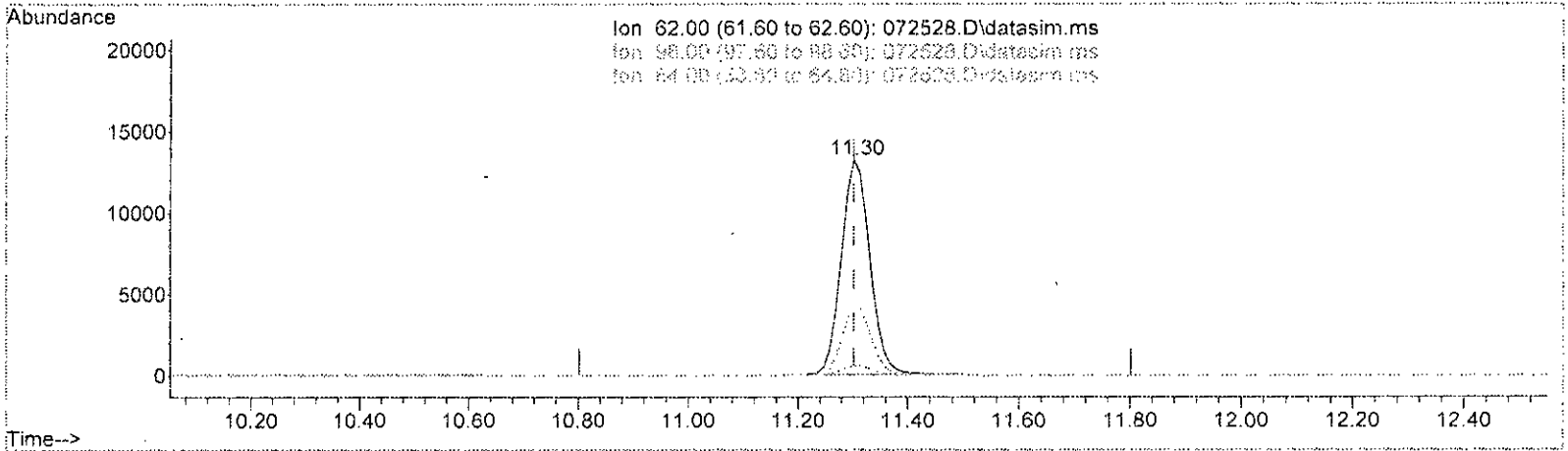
response	48230
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 4.59
64.00	33.00 32.48
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072528.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 9.080 ppbv m

response	47579	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.59
64.00	33.00	32.48
0.00	0.00	0.00

*Handwritten signature: 2/1/23*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method: V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Bromochloromethane	9.86	128	18484	10.000	ppbv	0.00	
39) 1,4-Difluorobenzene	13.11	114	76655	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	68820	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	52799	10.354	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.50%	
Target Compounds							
							Qvalue
2) Propene	3.41	41	20548	9.105	ppbv		99
3) Dichlorodifluoromethane	3.49	85	91070	10.020	ppbv		99
4) Chloromethane	3.69	50	29570	9.337	ppbv		97
5) F-114	3.88	85	80719	10.185	ppbv		99
6) Vinyl chloride	4.01	62	35421	9.895	ppbv		96
7) 1,3-Butadiene	4.21	54	22789	9.926	ppbv #		83
8) Butane	4.28	43	45028	9.810	ppbv		98
9) Bromomethane	4.56	94	31382	9.922	ppbv		98
10) Chloroethane	4.80	64	12081m	9.480	ppbv		
11) Vinyl bromide	5.26	106	31291m	9.812	ppbv		
12) Ethanol	4.92	45	9120	9.078	ppbv		84
13) Acrolein	5.38	56	12816m	9.515	ppbv		
14) Pentane	6.25	43	52426	9.990	ppbv		98
15) Trichlorofluoromethane	5.80	101	90969	10.261	ppbv		100
16) Acetone	5.53	58	12844	10.364	ppbv		99
17) 2-Propanol	5.78	45	56905	10.507	ppbv		99
18) 1,1-Dichloroethene	6.65	96	28731	9.472	ppbv		94
19) trans-1,2-Dichloroethene	8.07	96	28497	9.486	ppbv #		81
20) Methylene chloride	6.75	84	27362	9.231	ppbv		99
21) t-Butyl alcohol (TBA)	6.54	59	46948	9.986	ppbv #		62
22) 3-Chloropropene	6.94	41	39203	10.219	ppbv		97
23) CFC-113	7.15	101	65087	9.990	ppbv		93
24) Carbon disulfide	7.25	76	91747	9.323	ppbv		99
25) Methyl t-butyl ether (...)	8.41	73	62260	9.715	ppbv		100
26) Vinyl acetate	8.51	43	70343	9.851	ppbv		100
27) 1,1-Dichloroethane	8.33	63	63003	9.475	ppbv		97
28) cis-1,2-Dichloroethene	9.60	96	30264	9.228	ppbv		84
29) Hexane	9.99	57	39560	9.811	ppbv		98
30) Chloroform	10.07	83	71621	9.256	ppbv		99
31) Ethyl acetate	9.90	43	68937	9.664	ppbv #		99
32) Tetrahydrofuran	10.71	42	34304	10.184	ppbv		94
33) 2-Butanone (MEK)	8.85	72	11346	10.275	ppbv #		88
34) 1,2-Dichloroethane (EDC)	11.30	62	47579m	9.080	ppbv		
35) 1,1,1-Trichloroethane	11.79	97	59782	9.465	ppbv		94
36) Carbon tetrachloride	12.83	117	62156	9.525	ppbv		99
37) Benzene	12.58	78	93808	9.056	ppbv		98
38) Cyclohexane	13.05	84	24997	9.658	ppbv		93
40) 1,2-Dichloropropane	13.77	63	46029	9.703	ppbv		98

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

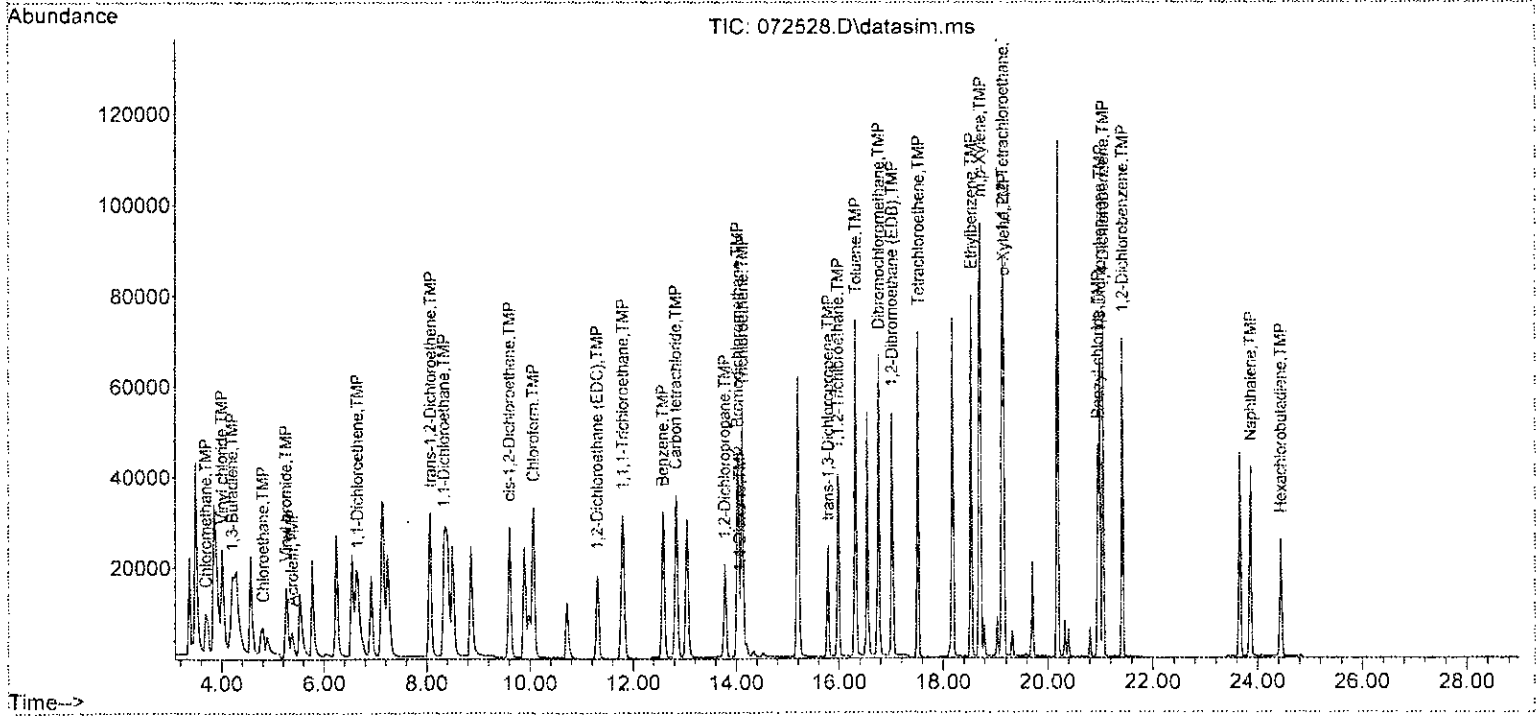
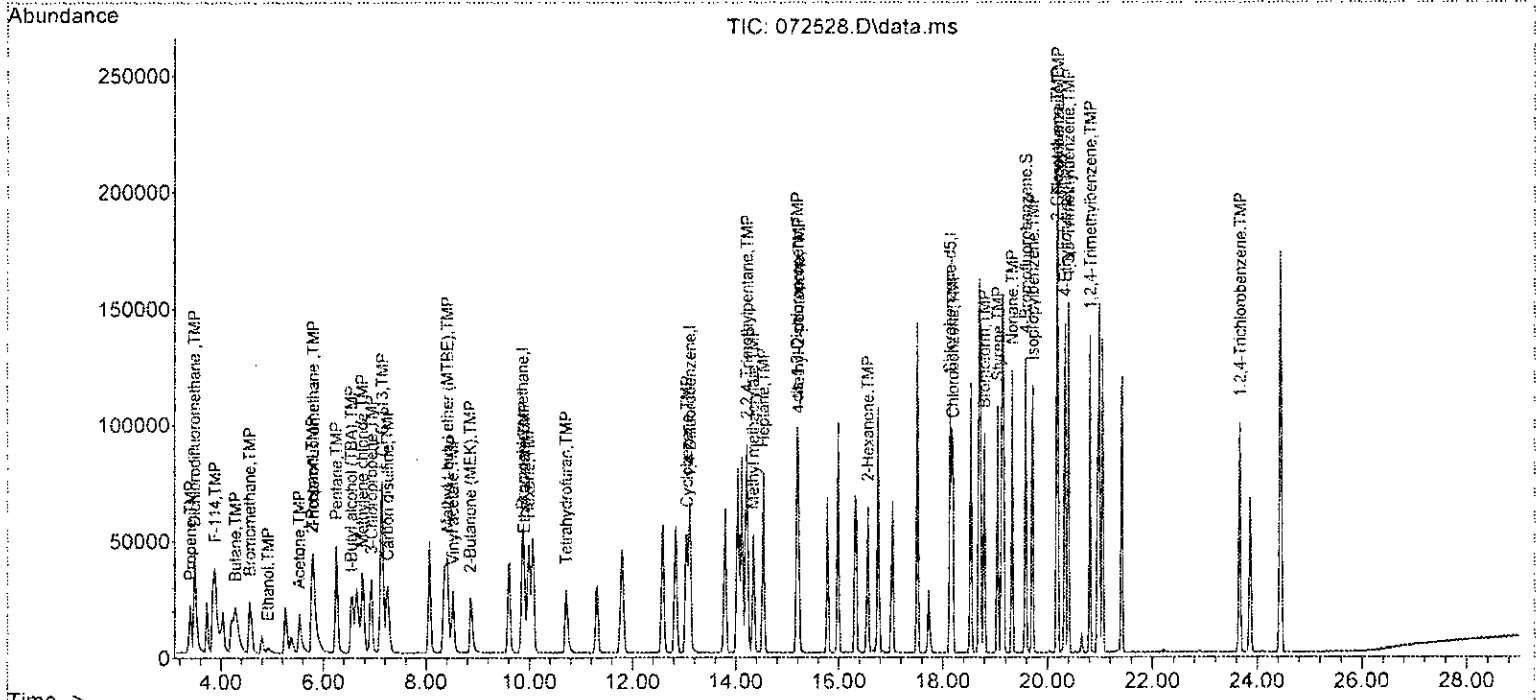
Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	17287	9.662	ppbv	76
42] 2,2,4-Trimethylpentane	14.21	57	138296	9.853	ppbv	97
43] Methyl methacrylate	14.33	41	40944	9.994	ppbv #	95
44] Heptane	14.53	43	50704	10.076	ppbv	98
45] Bromodichloromethane	14.02	83	74832	9.723	ppbv	100
46] Trichloroethene	14.12	95	45230	9.186	ppbv	96
47] cis-1,3-Dichloropropene	15.18	75	51433	10.001	ppbv	98
48] 4-Methyl-2-pentanone	15.21	100	3230	10.386	ppbv #	44
49] trans-1,3-Dichloropropene	15.78	75	47398	10.205	ppbv	94
50] Toluene	16.31	92	55842	9.579	ppbv	87
51] 1,1,2-Trichloroethane	15.98	83	43642	9.830	ppbv	99
52] 2-Hexanone	16.56	43	65073	10.177	ppbv	95
53] Tetrachloroethene	17.52	164	33347	9.659	ppbv	92
54] Dibromochloromethane	16.76	129	68568	9.689	ppbv	92
55] 1,2-Dibromoethane (EDB)	17.01	107	64249	9.197	ppbv	84
57] Chlorobenzene	18.19	112	68037	9.251	ppbv	98
58] Ethylbenzene	18.53	91	112596	9.089	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	92116	8.843	ppbv	92
60] Nonane	19.32	43	55415	9.166	ppbv	96
61] Isopropylbenzene	19.72	105	100273	9.383	ppbv	100
62] 2-Chlorotoluene	20.17	126	26465	9.564	ppbv	98
63] Propylbenzene	20.19	91	212415	9.520	ppbv	97
64] 4-Ethyltoluene	20.33	105	99601	9.744	ppbv	99
65] m,p-Xylene	18.70	106	76979	18.422	ppbv	99
66] o-Xylene	19.15	106	35241	9.248	ppbv	95
67] Styrene	19.05	104	53627	10.157	ppbv	96
68] Bromoform	18.80	173	55982	9.092	ppbv	100
70] Benzyl chloride	20.95	91	69117	10.786	ppbv	91
71] 1,3,5-Trimethylbenzene	20.39	105	91486	10.034	ppbv	99
72] 1,2,4-Trimethylbenzene	20.81	105	86074	10.747	ppbv	100
73] 1,3-Dichlorobenzene	20.99	146	65813	9.842	ppbv	89
74] 1,4-Dichlorobenzene	21.05	146	61332	9.903	ppbv	92
75] 1,2-Dichlorobenzene	21.41	146	64434	10.004	ppbv	96
76] 1,2,4-Trichlorobenzene	23.67	180	43687	10.752	ppbv	99
77] Naphthalene	23.86	128	85797	10.113	ppbv	99
78] Hexachlorobutadiene	24.44	225	54512	9.537	ppbv	99

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	10.000	9.105	8.9	100	0.00
3 TMP Dichlorodifluoromethane	10.000	10.020	-0.2	100	0.00
4 TMP Chloromethane	10.000	9.337	6.6	100	0.00
5 TMP F-114	10.000	10.185	-1.9	100	0.00
6 TMP Vinyl chloride	10.000	9.895	1.1	100	0.00
7 TMP 1,3-Butadiene	10.000	9.926	0.7	100	0.00
8 TMP Butane	10.000	9.810	1.9	100	0.00
9 TMP Bromomethane	10.000	9.922	0.8	100	0.00
10 TMP Chloroethane	10.000	9.480	5.2	99	0.00
11 TMP Vinyl bromide	10.000	9.812	1.9	101	0.00
12 TMP Ethanol	10.000	9.078	9.2	100	0.00
13 TMP Acrolein	10.000	9.515	4.8	96	0.00
14 TMP Pentane	10.000	9.990	0.1	100	0.00
15 TMP Trichlorofluoromethane	10.000	10.261	-2.6	100	0.00
16 TMP Acetone	10.000	10.364	-3.6	100	-0.02
17 TMP 2-Propanol	10.000	10.507	-5.1	100	0.00
18 TMP 1,1-Dichloroethene	10.000	9.472	5.3	100	0.00
19 TMP trans-1,2-Dichloroethene	10.000	9.486	5.1	100	0.00
20 TMP Methylene chloride	10.000	9.231	7.7	100	-0.03
21 TMP t-Butyl alcohol (TBA)	10.000	9.986	0.1	100	-0.03
22 TMP 3-Chloropropene	10.000	10.219	-2.2	100	0.00
23 TMP CFC-113	10.000	9.990	0.1	100	0.00
24 TMP Carbon disulfide	10.000	9.323	6.8	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	10.000	9.715	2.9	100	0.00
26 TMP Vinyl acetate	10.000	9.851	1.5	100	0.00
27 TMP 1,1-Dichloroethane	10.000	9.475	5.3	100	0.00
28 TMP cis-1,2-Dichloroethene	10.000	9.228	7.7	100	0.00
29 TMP Hexane	10.000	9.811	1.9	100	0.00
30 TMP Chloroform	10.000	9.256	7.4	100	0.00
31 TMP Ethyl acetate	10.000	9.664	3.4	100	0.00
32 TMP Tetrahydrofuran	10.000	10.184	-1.8	100	0.00
33 TMP 2-Butanone (MEK)	10.000	10.275	-2.8	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	10.000	9.080	9.2	100	0.00
35 TMP 1,1,1-Trichloroethane	10.000	9.465	5.4	100	0.00
36 TMP Carbon tetrachloride	10.000	9.525	4.7	100	0.00
37 TMP Benzene	10.000	9.056	9.4	101	0.00
38 TMP Cyclohexane	10.000	9.658	3.4	100	0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	10.000	9.703	3.0	101	0.00
41 TMP 1,4-Dioxane	10.000	9.662	3.4	100	0.00
42 TMP 2,2,4-Trimethylpentane	10.000	9.853	1.5	100	0.00
43 TMP Methyl methacrylate	10.000	9.994	0.1	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	10.000	10.076	-0.8	100	0.00
45 TMP Bromodichloromethane	10.000	9.723	2.8	100	0.00
46 TMP Trichloroethene	10.000	9.186	8.1	100	0.00
47 TMP cis-1,3-Dichloropropene	10.000	10.001	-0.0	100	0.00
48 TMP 4-Methyl-2-pentanone	10.000	10.386	-3.9	100	0.00
49 TMP trans-1,3-Dichloropropene	10.000	10.205	-2.1	100	0.00
50 TMP Toluene	10.000	9.579	4.2	100	0.00
51 TMP 1,1,2-Trichloroethane	10.000	9.830	1.7	100	0.00
52 TMP 2-Hexanone	10.000	10.177	-1.8	100	0.00
53 TMP Tetrachloroethene	10.000	9.659	3.4	101	0.00
54 TMP Dibromochloromethane	10.000	9.689	3.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	10.000	9.197	8.0	98	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	10.000	9.251	7.5	100	0.00
58 TMP Ethylbenzene	10.000	9.089	9.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	10.000	8.843	11.6	100	0.00
60 TMP Nonane	10.000	9.166	8.3	100	0.00
61 TMP Isopropylbenzene	10.000	9.383	6.2	100	0.00
62 TMP 2-Chlorotoluene	10.000	9.564	4.4	100	0.00
63 TMP Propylbenzene	10.000	9.520	4.8	100	0.00
64 TMP 4-Ethyltoluene	10.000	9.744	2.6	100	0.00
65 TMP m,p-Xylene	20.000	18.422	7.9	100	0.00
66 TMP o-Xylene	10.000	9.248	7.5	100	0.00
67 TMP Styrene	10.000	10.157	-1.6	100	0.00
68 TMP Bromoform	10.000	9.092	9.1	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.354	-3.5	100	0.00
70 TMP Benzyl chloride	10.000	10.786	-7.9	100	0.00
71 TMP 1,3,5-Trimethylbenzene	10.000	10.034	-0.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	10.000	10.747	-7.5	100	0.00
73 TMP 1,3-Dichlorobenzene	10.000	9.842	1.6	100	0.00
74 TMP 1,4-Dichlorobenzene	10.000	9.903	1.0	100	0.00
75 TMP 1,2-Dichlorobenzene	10.000	10.004	-0.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	10.000	10.752	-7.5	100	0.00
77 TMP Naphthalene	10.000	10.113	-1.1	100	0.00
78 TMP Hexachlorobutadiene	10.000	9.537	4.6	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	1.112	8.9	100	0.00
3 TMP Dichlorodifluoromethane	4.917	4.927	-0.2	100	0.00
4 TMP Chloromethane	1.713	1.600	6.6	100	0.00
5 TMP F-114	4.288	4.367	-1.8	100	0.00
6 TMP Vinyl chloride	1.937	1.916	1.1	100	0.00
7 TMP 1,3-Butadiene	1.242	1.233	0.7	100	0.00
8 TMP Butane	2.483	2.436	1.9	100	0.00
9 TMP Bromomethane	1.711	1.698	0.8	100	0.00
10 TMP Chloroethane	0.689	0.654	5.1	99	0.00
11 TMP Vinyl bromide	1.725	1.693	1.9	101	0.00
12 TMP Ethanol	0.543	0.493	9.2	100	0.00
13 TMP Acrolein	0.729	0.693	4.9	96	0.00
14 TMP Pentane	2.839	2.836	0.1	100	0.00
15 TMP Trichlorofluoromethane	4.796	4.921	-2.6	100	0.00
16 TMP Acetone	0.670	0.695	-3.7	100	-0.02
17 TMP 2-Propanol	2.930	3.079	-5.1	100	0.00
18 TMP 1,1-Dichloroethene	1.641	1.554	5.3	100	0.00
19 TMP trans-1,2-Dichloroethene	1.625	1.542	5.1	100	0.00
20 TMP Methylene chloride	1.604	1.480	7.7	100	-0.03
21 TMP t-Butyl alcohol (TBA)	2.544	2.540	0.2	100	-0.03
22 TMP 3-Chloropropene	2.076	2.121	-2.2	100	0.00
23 TMP CFC-113	3.525	3.521	0.1	100	0.00
24 TMP Carbon disulfide	5.324	4.964	6.8	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.368	2.9	100	0.00
26 TMP Vinyl acetate	3.863	3.806	1.5	100	0.00
27 TMP 1,1-Dichloroethane	3.597	3.409	5.2	100	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.637	7.7	100	0.00
29 TMP Hexane	2.181	2.140	1.9	100	0.00
30 TMP Chloroform	4.186	3.875	7.4	100	0.00
31 TMP Ethyl acetate	3.859	3.730	3.3	100	0.00
32 TMP Tetrahydrofuran	1.822	1.856	-1.9	100	0.00
33 TMP 2-Butanone (MEK)	0.597	0.614	-2.8	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.574	9.2	100	0.00
35 TMP 1,1,1-Trichloroethane	3.417	3.234	5.4	100	0.00
36 TMP Carbon tetrachloride	3.530	3.363	4.7	100	0.00
37 TMP Benzene	5.604	5.075	9.4	101	0.00
38 TMP Cyclohexane	1.400	1.352	3.4	100	0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.619	0.600	3.1	101	0.00
41 TMP 1,4-Dioxane	0.233	0.226	3.0	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.831	1.804	1.5	100	0.00
43 TMP Methyl methacrylate	0.534	0.534	0.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072528.D  
 Acq On : 26 Jul 2023 5:44 am  
 Operator : bat  
 Sample : 10 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:47 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.661	-0.8	100	0.00
45 TMP Bromodichloromethane	1.004	0.976	2.8	100	0.00
46 TMP Trichloroethene	0.642	0.590	8.1	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.671	0.0	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.042	-2.4	100	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.618	-2.0	100	0.00
50 TMP Toluene	0.761	0.728	4.3	100	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.569	1.7	100	0.00
52 TMP 2-Hexanone	0.834	0.849	-1.8	100	0.00
53 TMP Tetrachloroethene	0.450	0.435	3.3	101	0.00
54 TMP Dibromochloromethane	0.923	0.895	3.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.838	8.0	98	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	0.989	7.5	100	0.00
58 TMP Ethylbenzene	1.800	1.636	9.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.339	11.6	100	0.00
60 TMP Nonane	0.879	0.805	8.4	100	0.00
61 TMP Isopropylbenzene	1.553	1.457	6.2	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.385	4.2	100	0.00
63 TMP Propylbenzene	3.242	3.087	4.8	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.447	2.6	100	0.00
65 TMP m,p-Xylene	0.607	0.559	7.9	100	0.00
66 TMP o-Xylene	0.554	0.512	7.6	100	0.00
67 TMP Styrene	0.767	0.779	-1.6	100	0.00
68 TMP Bromoform	0.895	0.813	9.2	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.767	-3.5	100	0.00
70 TMP Benzyl chloride	0.931	1.004	-7.8	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.329	-0.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.251	-7.5	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.956	1.6	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.891	1.0	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.936	0.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.635	-7.6	100	0.00
77 TMP Naphthalene	1.053	1.247	-18.4	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.792	4.7	100	0.00

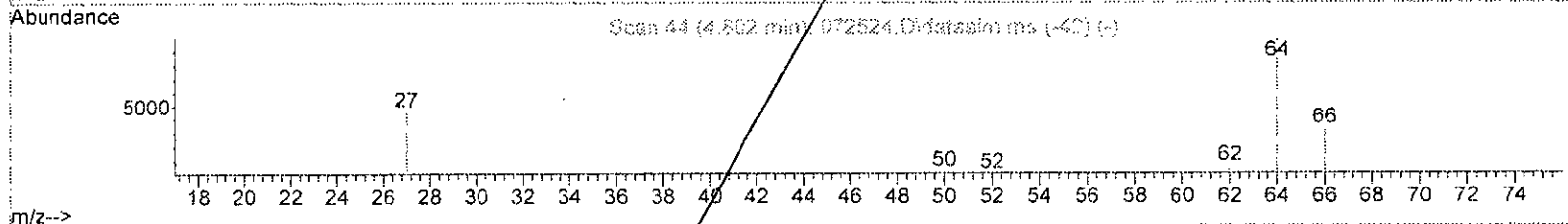
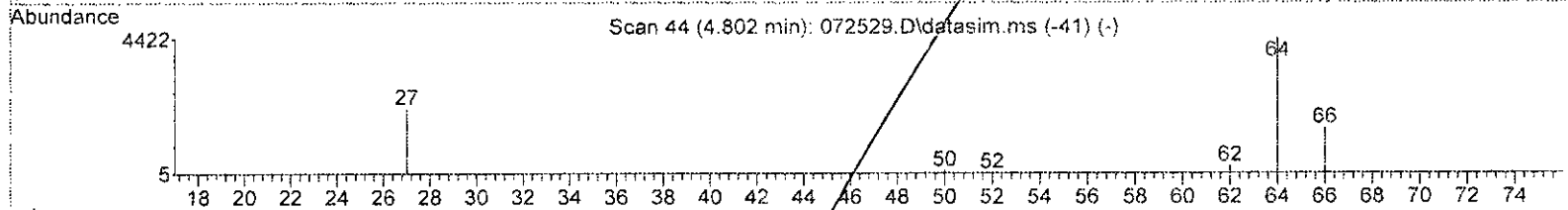
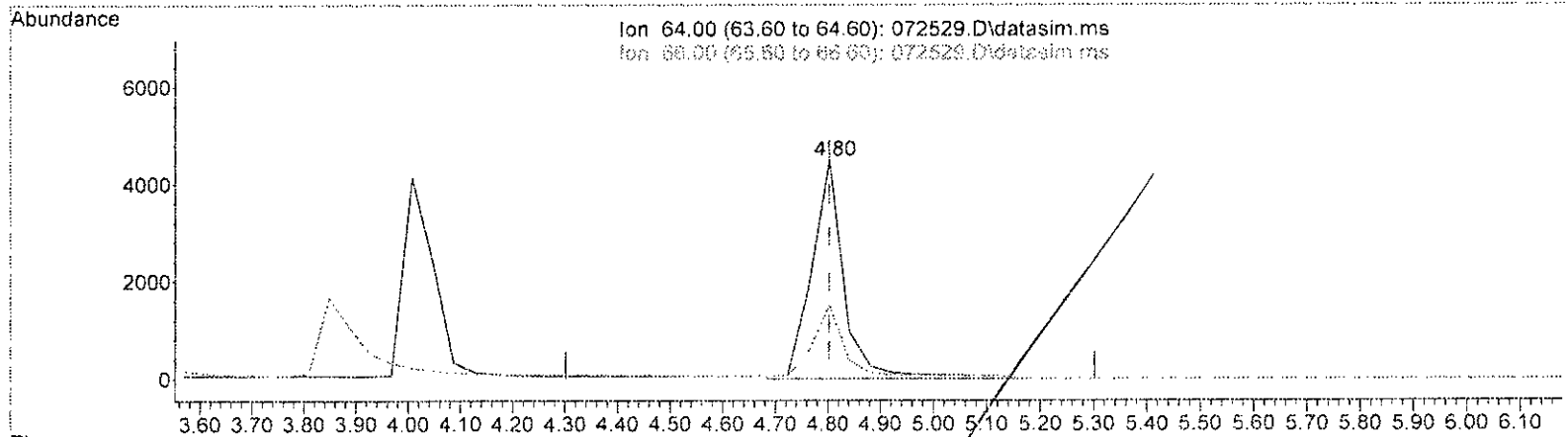
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072529.D\data.ms

(10) Chloroethane (TMP)

4.802min (+ 0.000) 15.078 ppbv

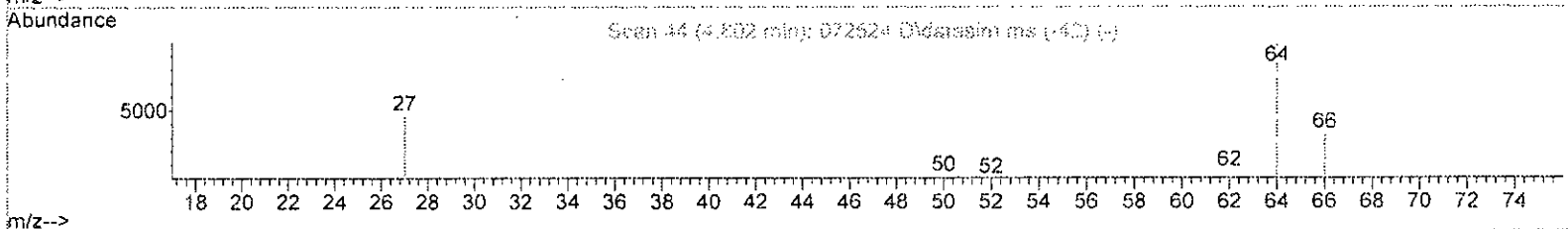
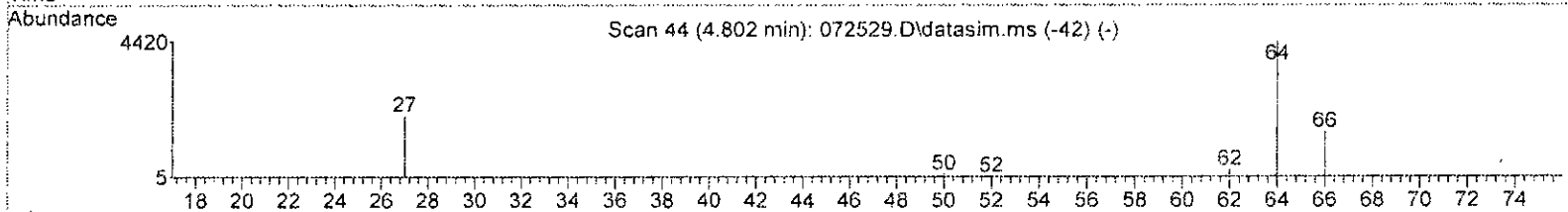
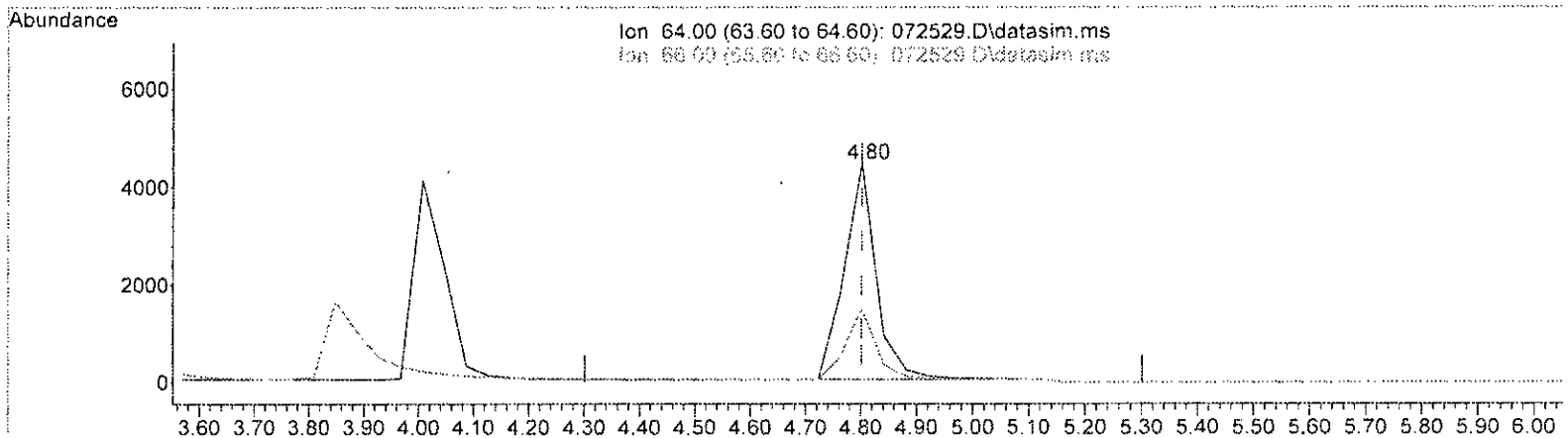
response	18458	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.79
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature:* 6/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\072ST015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072529.D\data.ms

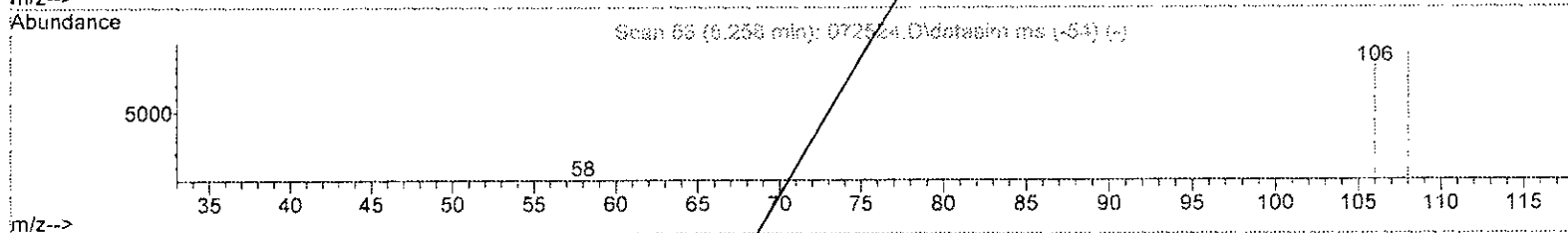
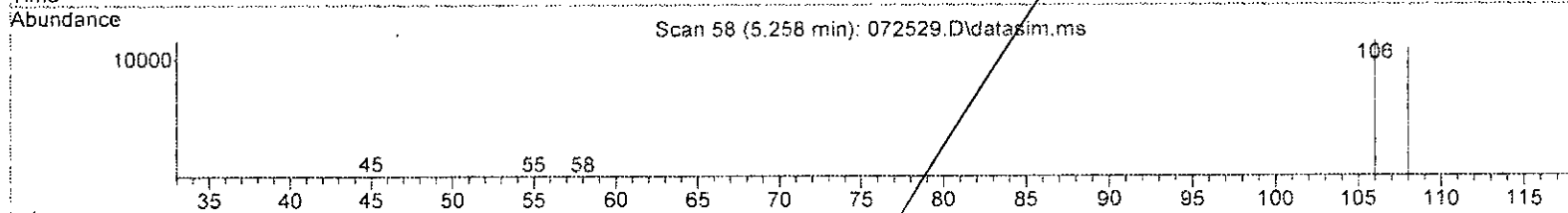
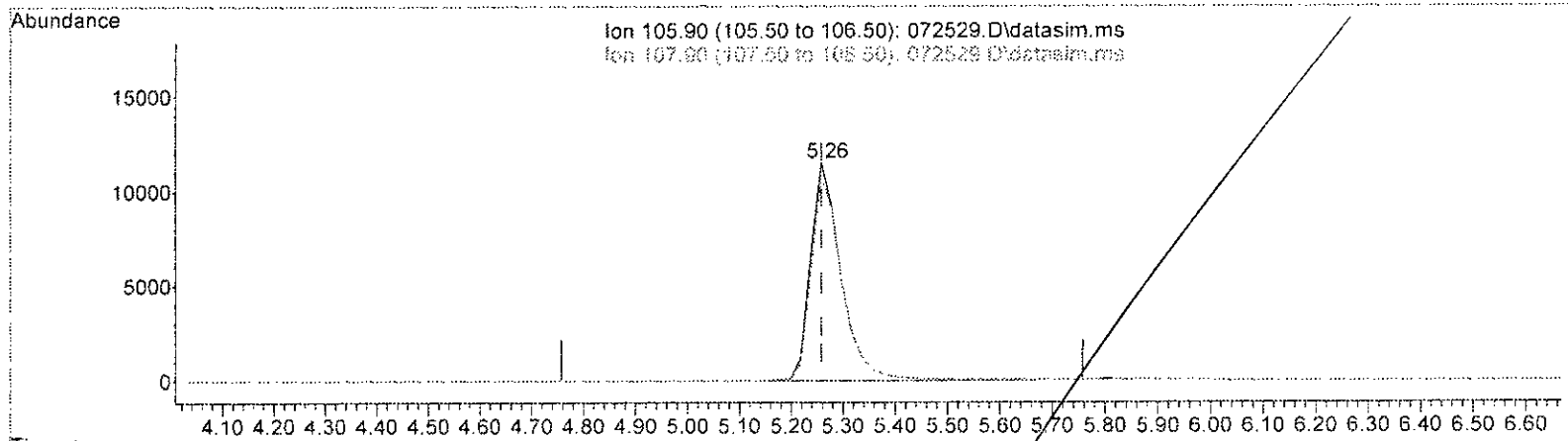
(10) Chloroethane (TMP)			
4.802min (+ 0.000)	14.398 ppbv m		
response	17625		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	33.79	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: Huh*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072529.D\data.ms

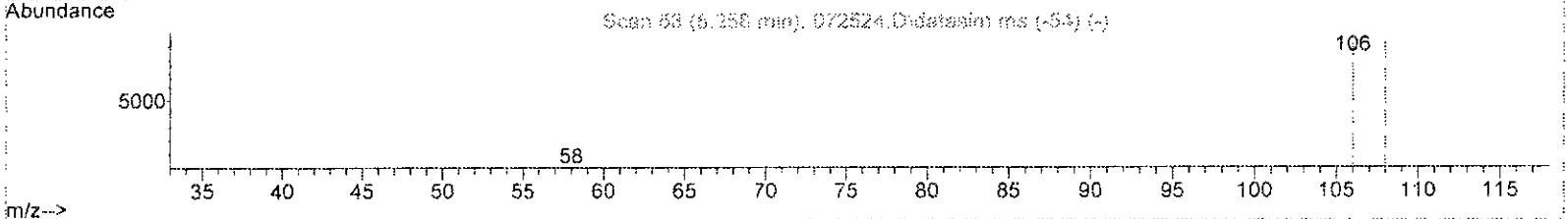
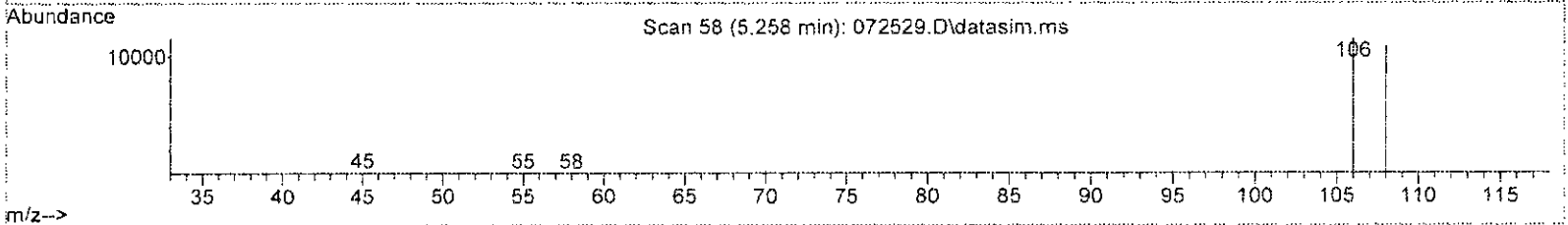
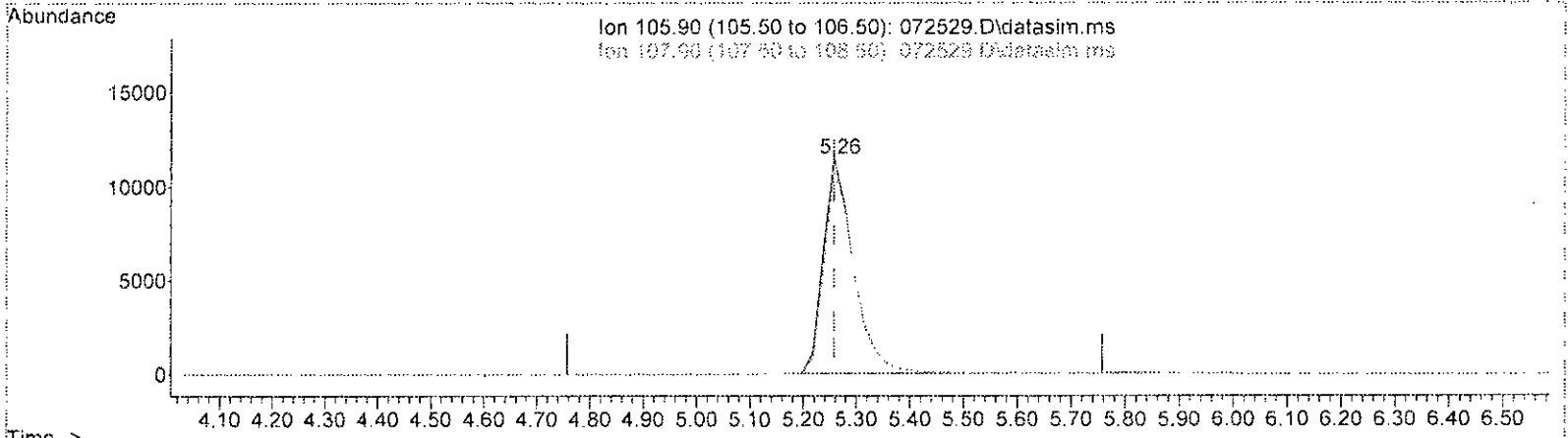
(11) Vinyl bromide (TMP)		
5.258min (-0.000)	16.533 ppbv	
response	50648	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.89
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 5S method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072529.D\data.ms

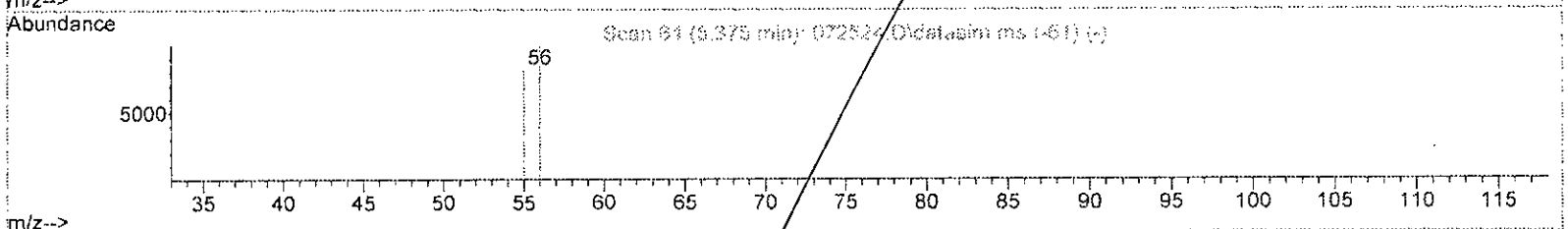
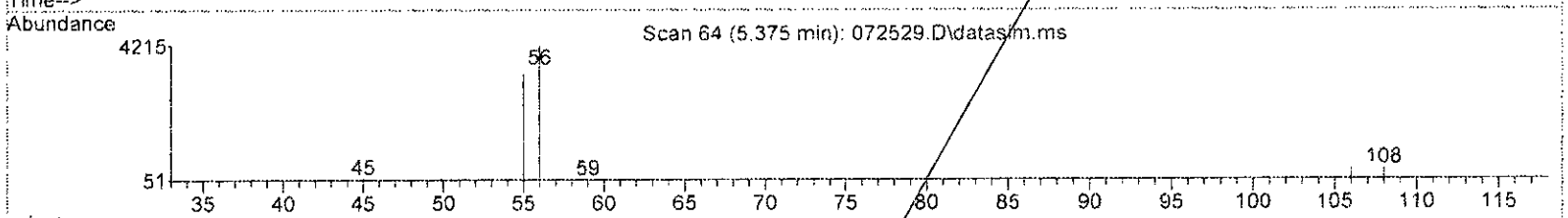
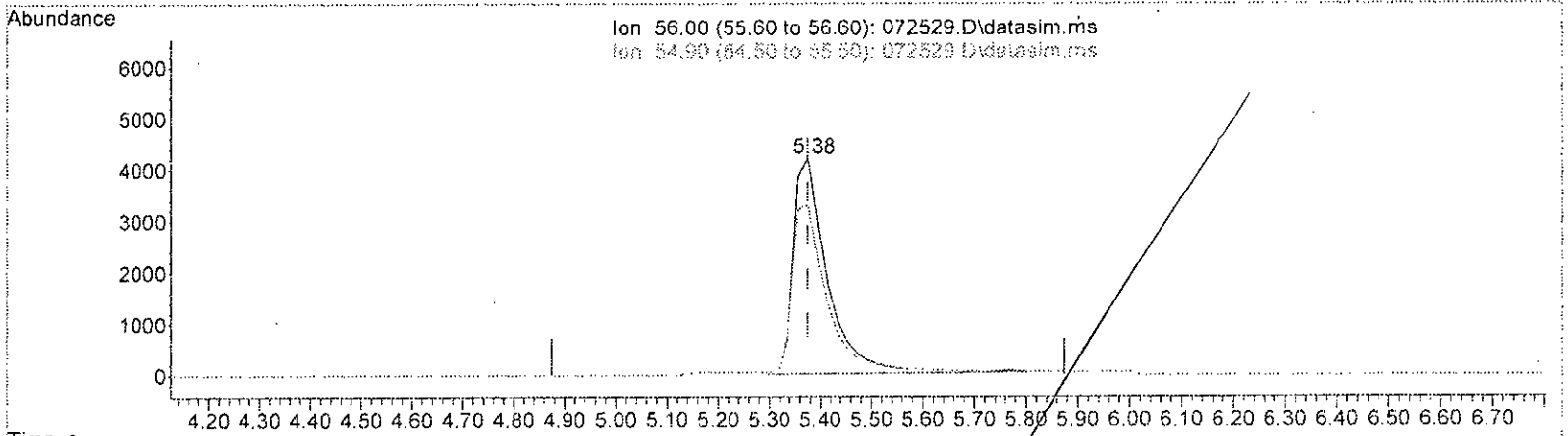
(11) Vinyl bromide (TMP)			
5.258min (-0.000) 14.953 ppbv m			
response	45807		
Ion	Exp%	Act%	
105.90	100.00	100.00	
107.90	94.10	104.91	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten note: 4/2/2024*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO1SDC.M



TIC: 072529.D\data.ms

(13) Acrolein (TMP)		
5.375min (+ 0.000)	15.094 ppbv	
response	19530	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	80.52
0.00	0.00	0.00
0.00	0.00	0.00

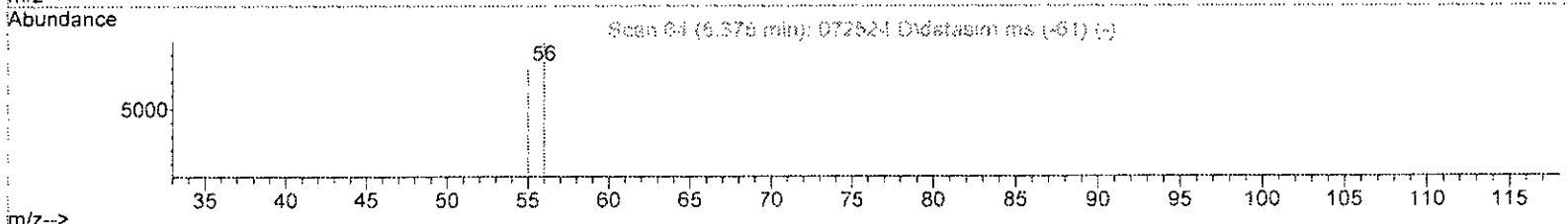
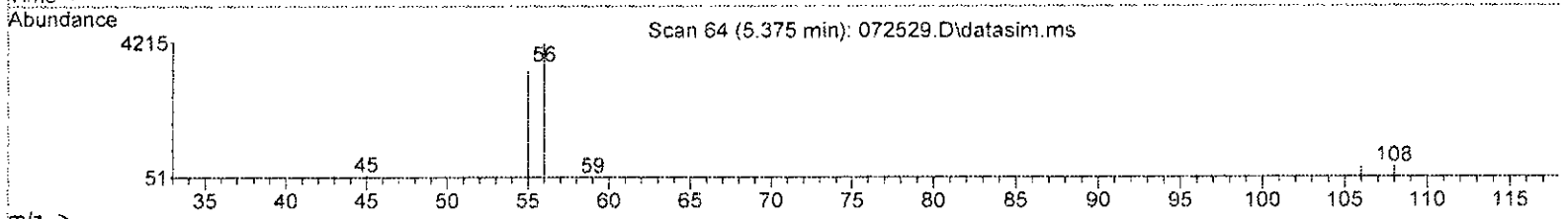
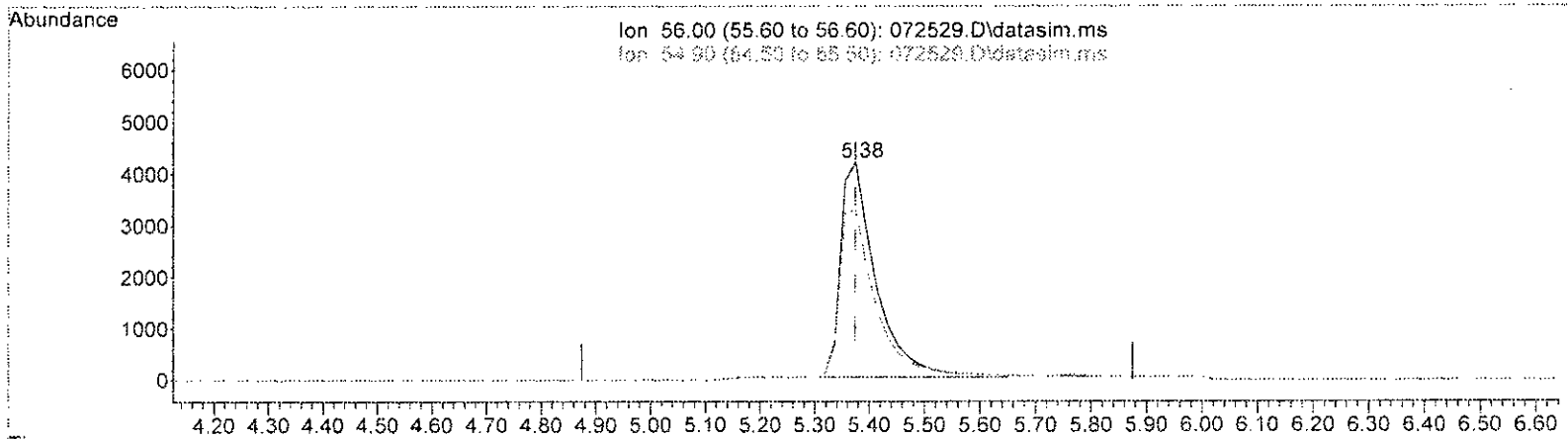
*Handwritten signature: 2/1/23*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072529.D\data.ms

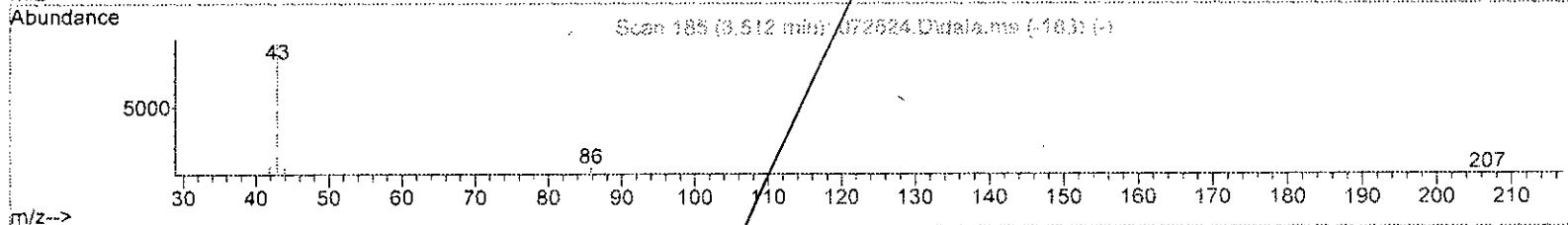
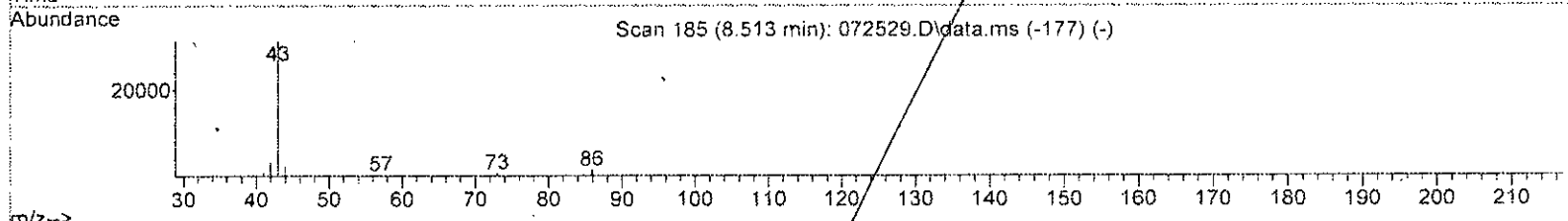
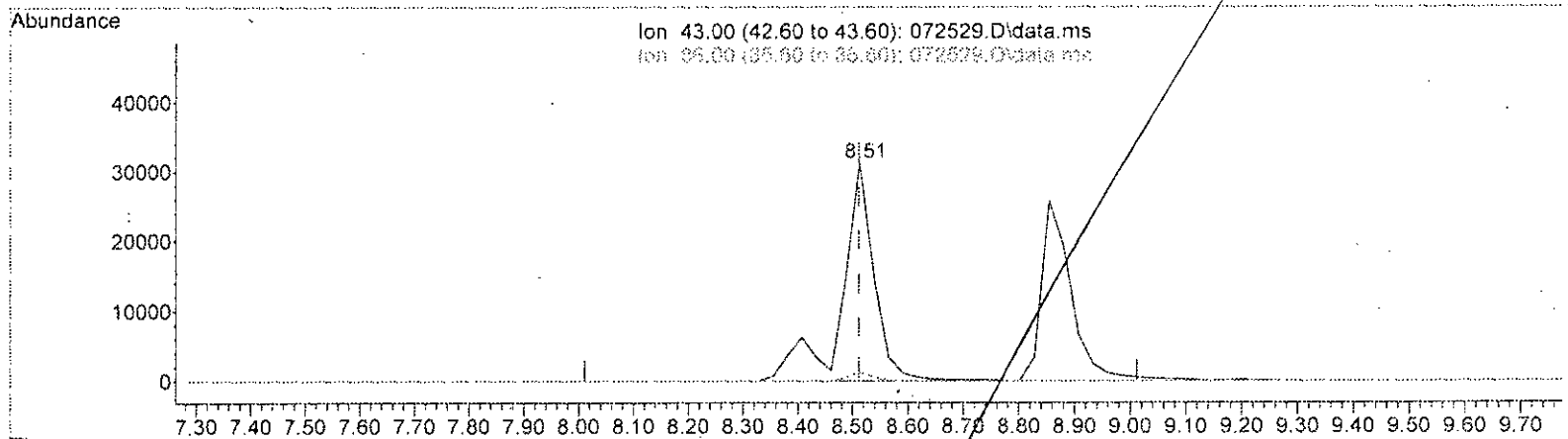
(13) Acrolein (TMP)		
5.375min (+ 0.000)	14.518 ppbv m	
response	18785	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	83.71
0.00	0.00	0.00
0.00	0.00	0.00

5/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072529.D\data.ms

(26) Vinyl acetate (TMP)

8.513min (+ 0.001) 18.725 ppbv

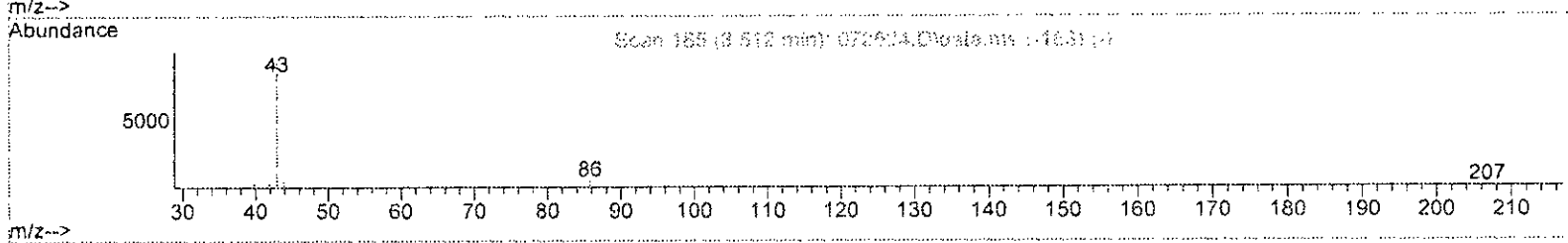
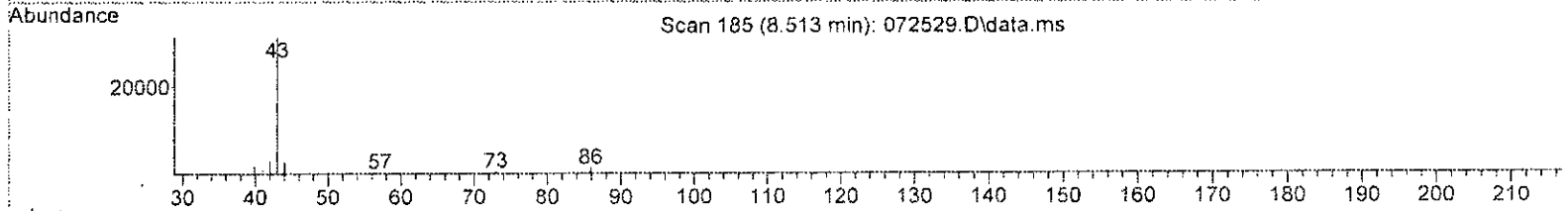
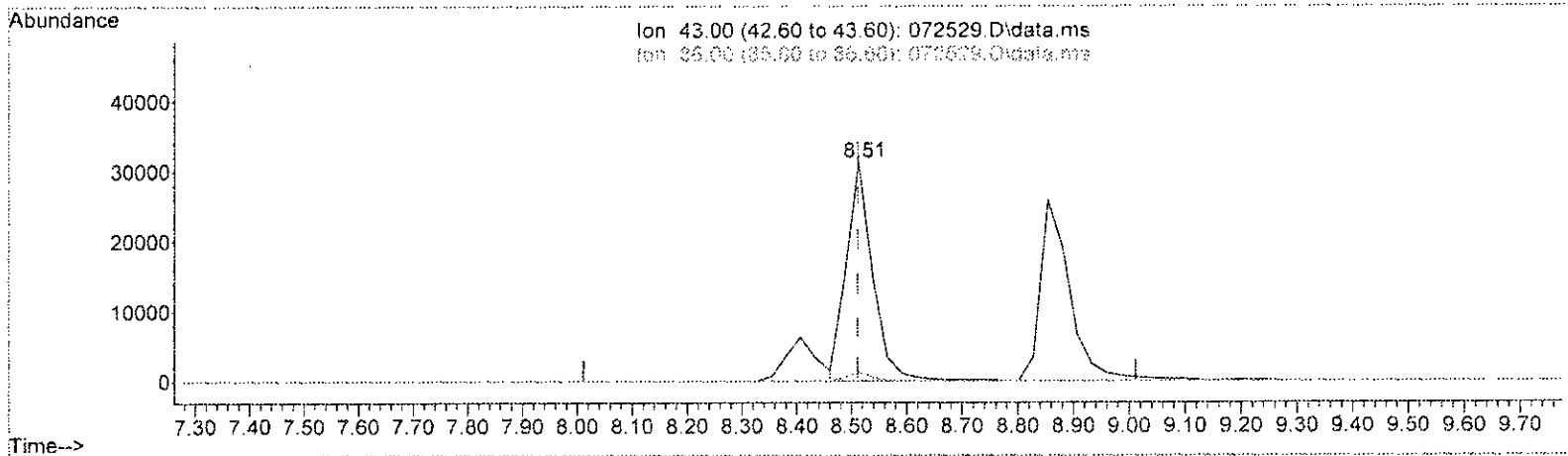
response	128441	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	3.86
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten:* 2/31/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072529.D\data.ms

(26) Vinyl acetate (TMP)

8.513min (+ 0.001) 15.059 ppbv m

response	103294	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	3.86
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T015 69-157-a  
 Misc : cal line  
 AL5 Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	17756	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	77113	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	67355	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	51962	10.411	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.10%
Target Compounds						
						Qvalue
2) Propene	3.41	41	31834	14.684	ppbv	94
3) Dichlorodifluoromethane	3.49	85	138587	15.873	ppbv	98
4] Chloromethane	3.69	50	44898	14.758	ppbv	96
5) F-114	3.88	85	117591	15.446	ppbv	99
6] Vinyl chloride	4.01	62	51942	15.105	ppbv	96
7] 1,3-Butadiene	4.21	54	33864	15.355	ppbv #	82
8) Butane	4.28	43	66576	15.099	ppbv	97
9) Bromomethane	4.56	94	45680	15.034	ppbv	99
10] Chloroethane	4.80	64	17625m	14.398	ppbv	
11] Vinyl bromide	5.26	106	45807m	14.953	ppbv	
12] Ethanol	4.92	45	14853	15.391	ppbv	92
13] Acrolein	5.38	56	18785m	14.518	ppbv	
14) Pentane	6.25	43	76975	15.269	ppbv	99
15) Trichlorofluoromethane	5.80	101	130989	15.381	ppbv	99
16) Acetone	5.53	58	17989	15.110	ppbv #	85
17) 2-Propanol	5.76	45	85943	16.519	ppbv	99
18] 1,1-Dichloroethene	6.65	96	41883	14.374	ppbv	92
19] trans-1,2-Dichloroethene	8.07	96	41788	14.480	ppbv #	80
20) Methylene chloride	6.75	84	39497	13.871	ppbv	97
21) t-Butyl alcohol (TBA)	6.54	59	70480	15.605	ppbv #	62
22) 3-Chloropropene	6.94	41	58321	15.825	ppbv	98
23) CFC-113	7.15	101	94105	15.036	ppbv	94
24) Carbon disulfide	7.25	76	135312	14.314	ppbv	99
25) Methyl t-butyl ether (...)	8.41	73	92706	15.059	ppbv	98
26) Vinyl acetate	8.51	43	103294m	15.059	ppbv	
27] 1,1-Dichloroethane	8.33	63	91894	14.387	ppbv	97
28] cis-1,2-Dichloroethene	9.60	96	44270	14.052	ppbv	84
29) Hexane	9.99	57	59840	15.450	ppbv	94
30] Chloroform	10.07	83	103068	13.867	ppbv	99
31) Ethyl acetate	9.90	43	104601	15.265	ppbv #	98
32) Tetrahydrofuran	10.71	42	57790	17.859	ppbv	91
33) 2-Butanone (MEK)	8.85	72	16479	15.536	ppbv #	75
34] 1,2-Dichloroethane (EDC)	11.30	62	69900	13.887	ppbv	99
35] 1,1,1-Trichloroethane	11.79	97	86464	14.250	ppbv	95
36] Carbon tetrachloride	12.83	117	89749	14.318	ppbv	99
37] Benzene	12.58	78	138111	13.880	ppbv	98
38) Cyclohexane	13.05	84	36791	14.798	ppbv	95
40] 1,2-Dichloropropane	13.77	63	66262	13.885	ppbv	98

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

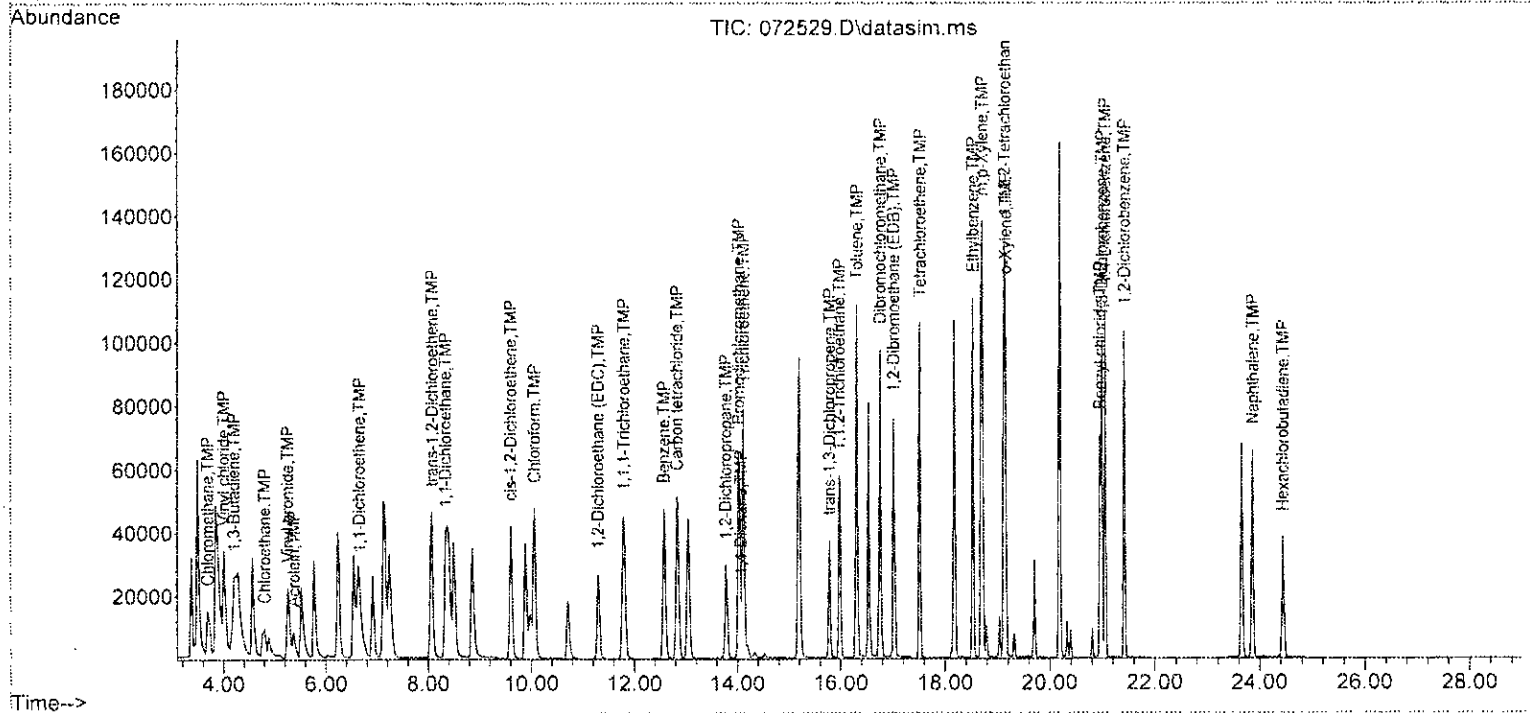
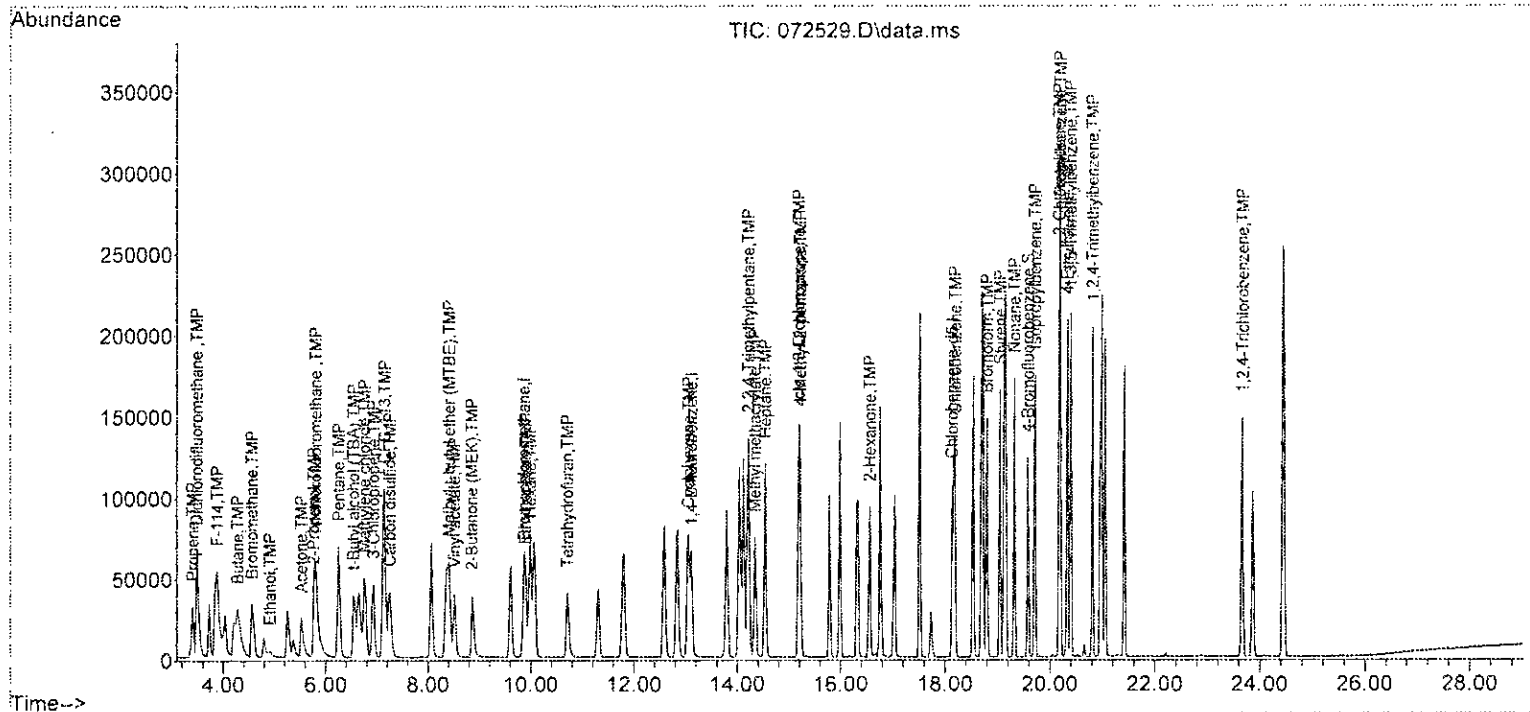
Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	25164	13.980	ppbv	72
42] 2,2,4-Trimethylpentane	14.21	57	205681	14.567	ppbv	96
43] Methyl methacrylate	14.33	41	59373	14.406	ppbv	95
44] Heptane	14.53	43	78830	15.572	ppbv	99
45] Bromodichloromethane	14.02	83	108875	14.062	ppbv	99
46] Trichloroethene	14.12	95	65327	13.189	ppbv	97
47] cis-1,3-Dichloropropene	15.18	75	76594	14.805	ppbv	100
48] 4-Methyl-2-pentanone	15.21	100	4834	15.451	ppbv #	48
49] trans-1,3-Dichloropropene	15.78	75	70532	15.096	ppbv	95
50] Toluene	16.31	92	82588	14.082	ppbv	87
51] 1,1,2-Trichloroethane	15.98	83	63279	14.169	ppbv	98
52] 2-Hexanone	16.56	43	95684	14.876	ppbv	95
53] Tetrachloroethene	17.52	164	49149	14.152	ppbv	92
54] Dibromochloromethane	16.76	129	100187	14.073	ppbv	92
55] 1,2-Dibromoethane (EDB)	17.01	107	92225	13.123	ppbv	83
57] Chlorobenzene	18.19	112	101401	14.087	ppbv	97
58] Ethylbenzene	18.53	91	161302	13.303	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	136272	13.366	ppbv	92
60] Nonane	19.32	43	79083	13.365	ppbv	97
61] Isopropylbenzene	19.72	105	145184	13.880	ppbv	99
62] 2-Chlorotoluene	20.17	126	37903	13.995	ppbv	97
63] Propylbenzene	20.19	91	303184	13.883	ppbv	97
64] 4-Ethyltoluene	20.33	105	145775	14.571	ppbv	100
65] m,p-Xylene	18.70	106	111965	27.377	ppbv	100
66] o-Xylene	19.15	106	50523	13.547	ppbv	94
67] Styrene	19.05	104	80338	15.547	ppbv	98
68] Bromoform	18.80	173	83459	13.849	ppbv	99
70] Benzyl chloride	20.95	91	103940	16.573	ppbv	90
71] 1,3,5-Trimethylbenzene	20.39	105	129040	14.461	ppbv	99
72] 1,2,4-Trimethylbenzene	20.81	105	126727	16.168	ppbv	99
73] 1,3-Dichlorobenzene	20.99	146	95861	14.647	ppbv	90
74] 1,4-Dichlorobenzene	21.05	146	90024	14.851	ppbv	92
75] 1,2-Dichlorobenzene	21.41	146	93154	14.778	ppbv	95
76] 1,2,4-Trichlorobenzene	23.67	180	66761	16.788	ppbv	99
77] Naphthalene	23.86	128	132307	14.844	ppbv	99
78] Hexachlorobutadiene	24.44	225	80523	14.395	ppbv	99

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T01S 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T01Sss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	15.000	14.684	2.1	100	0.00
3 TMP Dichlorodifluoromethane	15.000	15.873	-5.8	100	0.00
4 TMP Chloromethane	15.000	14.758	1.6	100	0.00
5 TMP F-114	15.000	15.446	-3.0	100	0.00
6 TMP Vinyl chloride	15.000	15.105	-0.7	100	0.00
7 TMP 1,3-Butadiene	15.000	15.355	-2.4	100	0.00
8 TMP Butane	15.000	15.099	-0.7	100	0.00
9 TMP Bromomethane	15.000	15.034	-0.2	100	0.00
10 TMP Chloroethane	15.000	14.398	4.0	100	0.00
11 TMP Vinyl bromide	15.000	14.953	0.3	100	0.00
12 TMP Ethanol	15.000	15.391	-2.6	100	0.00
13 TMP Acrolein	15.000	14.518	3.2	99	0.00
14 TMP Pentane	15.000	15.269	-1.8	100	0.00
15 TMP Trichlorofluoromethane	15.000	15.381	-2.5	100	0.00
16 TMP Acetone	15.000	15.110	-0.7	100	-0.02
17 TMP 2-Propanol	15.000	16.519	-10.1	100	-0.02
18 TMP 1,1-Dichloroethene	15.000	14.374	4.2	100	0.00
19 TMP trans-1,2-Dichloroethene	15.000	14.480	3.5	100	0.00
20 TMP Methylene chloride	15.000	13.871	7.5	100	-0.03
21 TMP t-Butyl alcohol (TBA)	15.000	15.605	-4.0	100	-0.03
22 TMP 3-Chloropropene	15.000	15.825	-5.5	100	0.00
23 TMP CFC-113	15.000	15.036	-0.2	100	0.00
24 TMP Carbon disulfide	15.000	14.314	4.6	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	15.000	15.059	-0.4	100	0.00
26 TMP Vinyl acetate	15.000	15.059	-0.4	99	0.00
27 TMP 1,1-Dichloroethane	15.000	14.387	4.1	100	0.00
28 TMP cis-1,2-Dichloroethene	15.000	14.052	6.3	100	0.00
29 TMP Hexane	15.000	15.450	-3.0	100	0.00
30 TMP Chloroform	15.000	13.867	7.6	100	0.00
31 TMP Ethyl acetate	15.000	15.265	-1.8	100	0.00
32 TMP Tetrahydrofuran	15.000	17.859	-19.1	100	0.00
33 TMP 2-Butanone (MEK)	15.000	15.536	-3.6	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	15.000	13.887	7.4	100	0.00
35 TMP 1,1,1-Trichloroethane	15.000	14.250	5.0	100	0.00
36 TMP Carbon tetrachloride	15.000	14.318	4.5	100	0.00
37 TMP Benzene	15.000	13.880	7.5	100	0.00
38 TMP Cyclohexane	15.000	14.798	1.3	100	0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	15.000	13.885	7.4	100	0.00
41 TMP 1,4-Dioxane	15.000	13.980	6.8	100	0.00
42 TMP 2,2,4-Trimethylpentane	15.000	14.567	2.9	101	0.00
43 TMP Methyl methacrylate	15.000	14.406	4.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv TO15 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	15.000	15.572	-3.8	100	0.00
45 TMP Bromodichloromethane	15.000	14.062	6.3	100	0.00
46 TMP Trichloroethene	15.000	13.189	12.1	100	0.00
47 TMP cis-1,3-Dichloropropene	15.000	14.805	1.3	100	0.00
48 TMP 4-Methyl-2-pentanone	15.000	15.451	-3.0	100	0.00
49 TMP trans-1,3-Dichloropropene	15.000	15.096	-0.6	100	0.00
50 TMP Toluene	15.000	14.082	6.1	100	0.00
51 TMP 1,1,2-Trichloroethane	15.000	14.169	5.5	100	0.00
52 TMP 2-Hexanone	15.000	14.876	0.8	100	0.00
53 TMP Tetrachloroethene	15.000	14.152	5.7	100	0.00
54 TMP Dibromochloromethane	15.000	14.073	6.2	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	15.000	13.123	12.5	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	15.000	14.087	6.1	100	0.00
58 TMP Ethylbenzene	15.000	13.303	11.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	15.000	13.366	10.9	100	0.00
60 TMP Nonane	15.000	13.365	10.9	100	0.00
61 TMP Isopropylbenzene	15.000	13.880	7.5	100	0.00
62 TMP 2-Chlorotoluene	15.000	13.995	6.7	100	0.00
63 TMP Propylbenzene	15.000	13.883	7.4	100	0.00
64 TMP 4-Ethyltoluene	15.000	14.571	2.9	100	0.00
65 TMP m,p-Xylene	30.000	27.377	8.7	100	0.00
66 TMP o-Xylene	15.000	13.547	9.7	100	0.00
67 TMP Styrene	15.000	15.547	-3.6	100	0.00
68 TMP Bromoform	15.000	13.849	7.7	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.411	-4.1	100	0.00
70 TMP Benzyl chloride	15.000	16.573	-10.5	100	0.00
71 TMP 1,3,5-Trimethylbenzene	15.000	14.461	3.6	100	0.00
72 TMP 1,2,4-Trimethylbenzene	15.000	16.168	-7.8	100	0.00
73 TMP 1,3-Dichlorobenzene	15.000	14.647	2.4	100	0.00
74 TMP 1,4-Dichlorobenzene	15.000	14.851	1.0	100	0.00
75 TMP 1,2-Dichlorobenzene	15.000	14.778	1.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	15.000	16.788	-11.9	100	0.00
77 TMP Naphthalene	15.000	14.844	1.0	100	0.00
78 TMP Hexachlorobutadiene	15.000	14.395	4.0	100	0.00

(#) = Out of Range

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



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T01S 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP	Propene	1.221	1.195	2.1	100	0.00
3 TMP	Dichlorodifluoromethane	4.917	5.203	-5.8	100	0.00
4 TMP	Chloromethane	1.713	1.686	1.6	100	0.00
5 TMP	F-114	4.288	4.415	-3.0	100	0.00
6 TMP	Vinyl chloride	1.937	1.950	-0.7	100	0.00
7 TMP	1,3-Butadiene	1.242	1.271	-2.3	100	0.00
8 TMP	Butane	2.483	2.500	-0.7	100	0.00
9 TMP	Bromomethane	1.711	1.715	-0.2	100	0.00
10 TMP	Chloroethane	0.689	0.662	3.9	100	0.00
11 TMP	Vinyl bromide	1.725	1.720	0.3	100	0.00
12 TMP	Ethanol	0.543	0.558	-2.8	100	0.00
13 TMP	Acrolein	0.729	0.705	3.3	99	0.00
14 TMP	Pentane	2.839	2.890	-1.8	100	0.00
15 TMP	Trichlorofluoromethane	4.796	4.918	-2.5	100	0.00
16 TMP	Acetone	0.670	0.675	-0.7	100	-0.02
17 TMP	2-Propanol	2.930	3.227	-10.1	100	-0.02
18 TMP	1,1-Dichloroethene	1.641	1.573	4.1	100	0.00
19 TMP	trans-1,2-Dichloroethene	1.625	1.569	3.4	100	0.00
20 TMP	Methylene chloride	1.604	1.483	7.5	100	-0.03
21 TMP	t-Butyl alcohol (TBA)	2.544	2.646	-4.0	100	-0.03
22 TMP	3-Chloropropene	2.076	2.190	-5.5	100	0.00
23 TMP	CFC-113	3.525	3.533	-0.2	100	0.00
24 TMP	Carbon disulfide	5.324	5.080	4.6	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	3.467	3.481	-0.4	100	0.00
26 TMP	Vinyl acetate	3.863	3.878	-0.4	99	0.00
27 TMP	1,1-Dichloroethane	3.597	3.450	4.1	100	0.00
28 TMP	cis-1,2-Dichloroethene	1.774	1.662	6.3	100	0.00
29 TMP	Hexane	2.181	2.247	-3.0	100	0.00
30 TMP	Chloroform	4.186	3.870	7.5	100	0.00
31 TMP	Ethyl acetate	3.859	3.927	-1.8	100	0.00
32 TMP	Tetrahydrofuran	1.822	2.170	-19.1	100	0.00
33 TMP	2-Butanone (MEK)	0.597	0.619	-3.7	100	-0.03
34 TMP	1,2-Dichloroethane (EDC)	2.835	2.624	7.4	100	0.00
35 TMP	1,1,1-Trichloroethane	3.417	3.246	5.0	100	0.00
36 TMP	Carbon tetrachloride	3.530	3.370	4.5	100	0.00
37 TMP	Benzene	5.604	5.186	7.5	100	0.00
38 TMP	Cyclohexane	1.400	1.381	1.4	100	0.02
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.619	0.573	7.4	100	0.00
41 TMP	1,4-Dioxane	0.233	0.218	6.4	100	0.00
42 TMP	2,2,4-Trimethylpentane	1.831	1.778	2.9	101	0.00
43 TMP	Methyl methacrylate	0.534	0.513	3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072529.D  
 Acq On : 26 Jul 2023 6:23 am  
 Operator : bat  
 Sample : 15 ppbv T015 69-157-a  
 Misc : cal line  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:57:58 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.682	-4.0	100	0.00
45 TMP Bromodichloromethane	1.004	0.941	6.3	100	0.00
46 TMP Trichloroethene	0.642	0.565	12.0	100	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.662	1.3	100	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.042	-2.4	100	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.610	-0.7	100	0.00
50 TMP Toluene	0.761	0.714	6.2	100	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.547	5.5	100	0.00
52 TMP 2-Hexanone	0.834	0.827	0.8	100	0.00
53 TMP Tetrachloroethene	0.450	0.425	5.6	100	0.00
54 TMP Dibromochloromethane	0.923	0.866	6.2	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.797	12.5	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.069	1.004	6.1	100	0.00
58 TMP Ethylbenzene	1.800	1.597	11.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.349	10.9	100	0.00
60 TMP Nonane	0.879	0.783	10.9	100	0.00
61 TMP Isopropylbenzene	1.553	1.437	7.5	100	0.00
62 TMP 2-Chlorotoluene	0.402	0.375	6.7	100	0.00
63 TMP Propylbenzene	3.242	3.001	7.4	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.443	2.8	100	0.00
65 TMP m,p-Xylene	0.607	0.554	8.7	100	0.00
66 TMP o-Xylene	0.554	0.500	9.7	100	0.00
67 TMP Styrene	0.767	0.795	-3.7	100	0.00
68 TMP Bromoform	0.895	0.826	7.7	100	0.00
69 S 4-Bromofluorobenzene	0.741	0.771	-4.0	100	0.00
70 TMP Benzyl chloride	0.931	1.029	-10.5	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.277	3.6	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.254	-7.7	100	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.949	2.4	100	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.891	1.0	100	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.922	1.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.661	-12.0	100	0.00
77 TMP Naphthalene	1.053	1.310	-24.4	100	0.00
78 TMP Hexachlorobutadiene	0.831	0.797	4.1	100	0.00

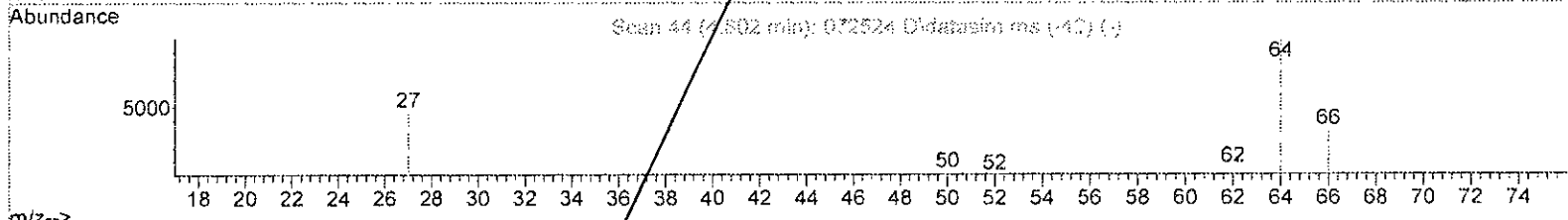
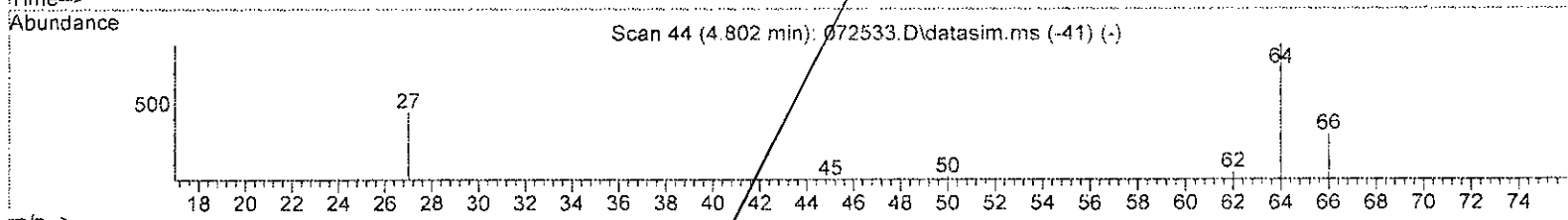
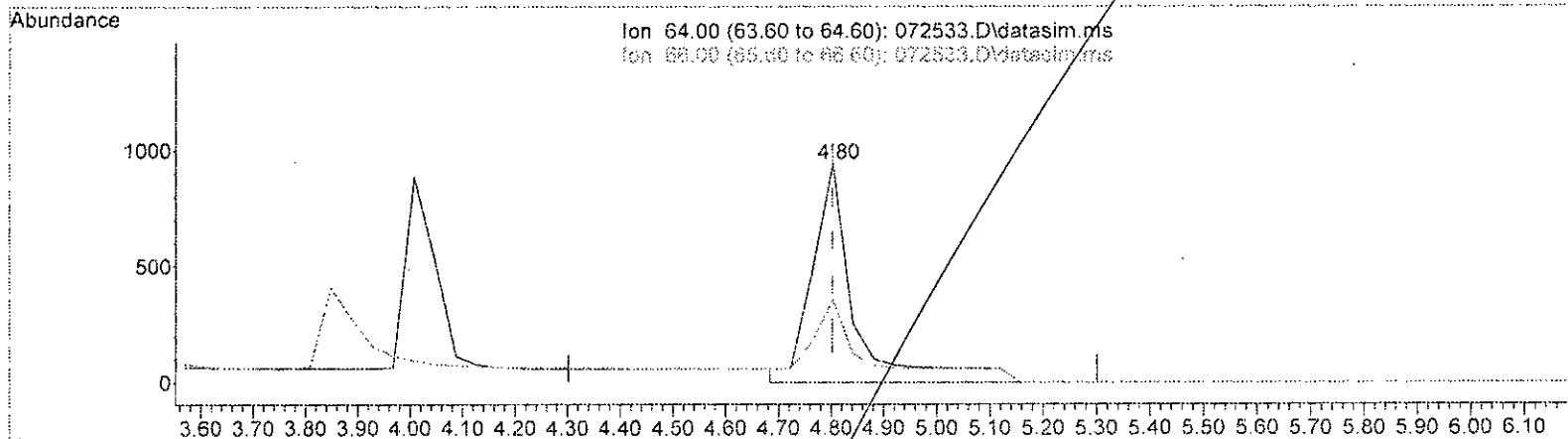
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072533.D\data.ms

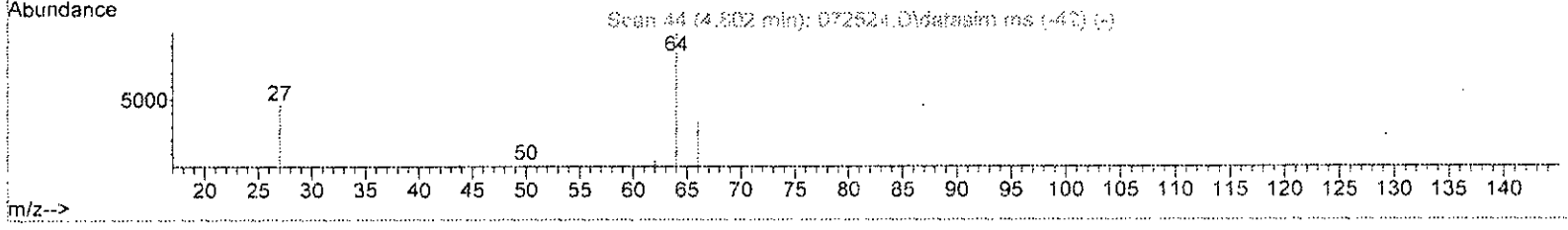
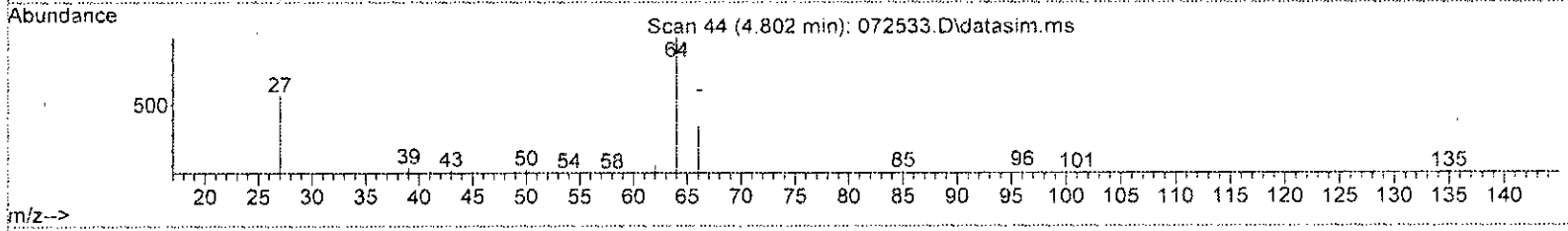
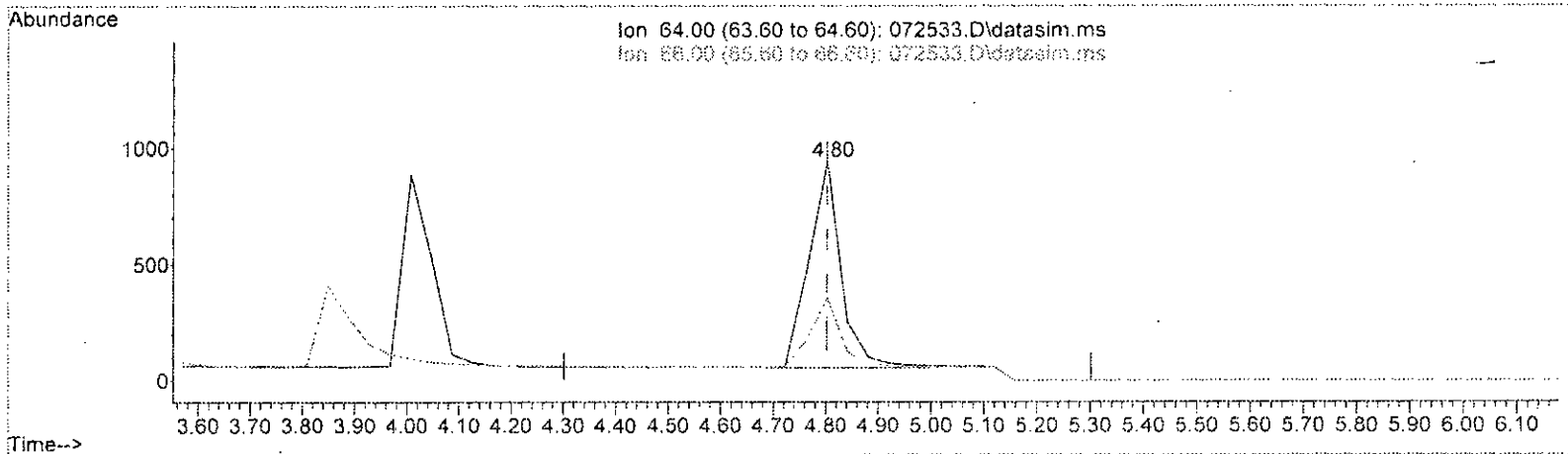
(10) Chloroethane (TMP)		
4.802min (+ 0.000)	3.821 ppbv	
response	5022	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.47
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten: 5/2/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

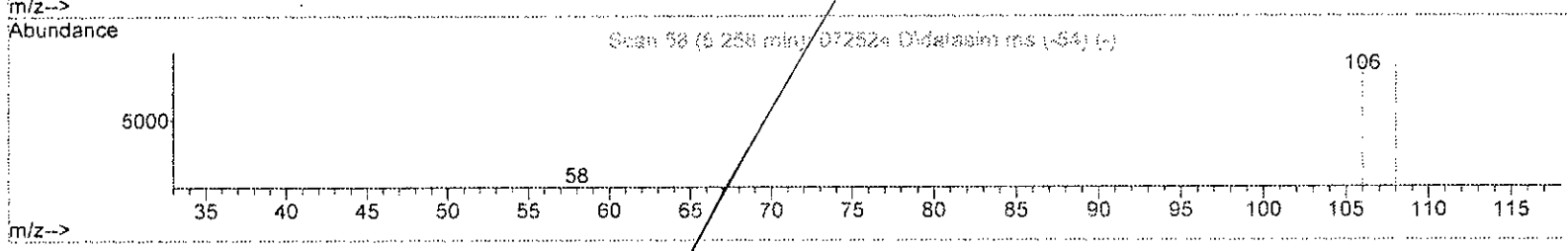
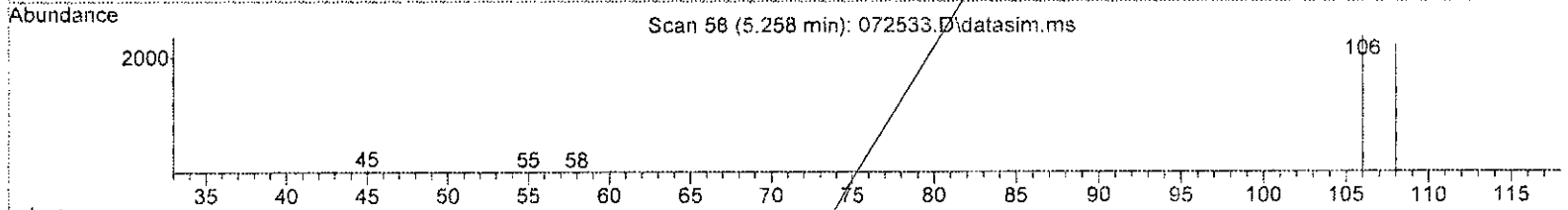
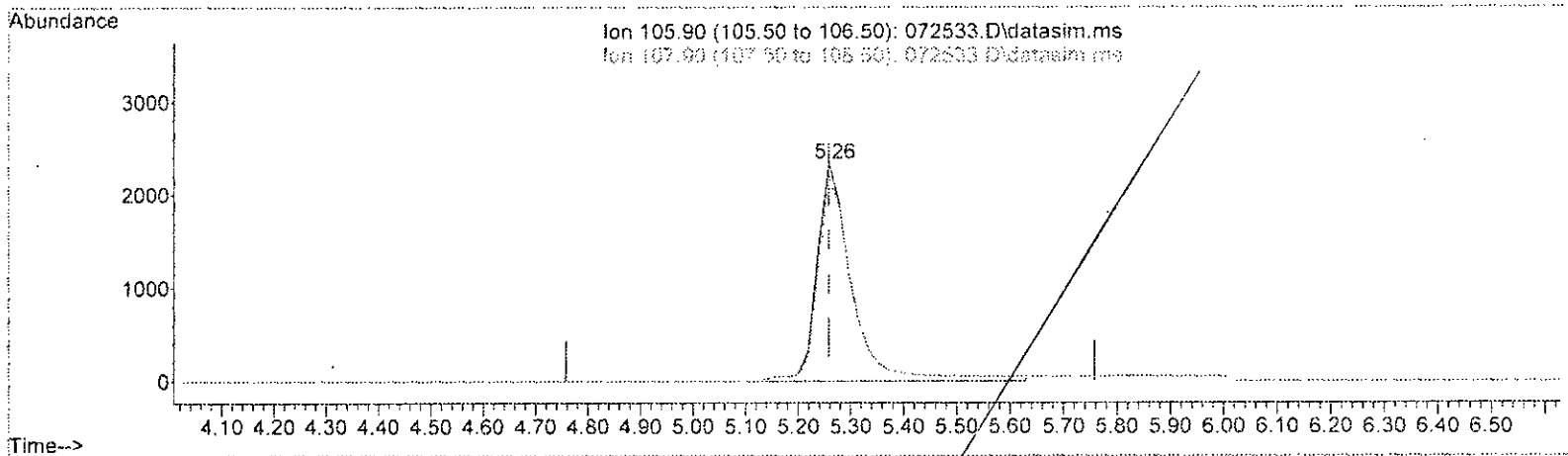
(10) Chloroethane (TMP)		
4.802min (+ 0.000)	2.868 ppbv m	
response	3769	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.47
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: H. J. [unclear]*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

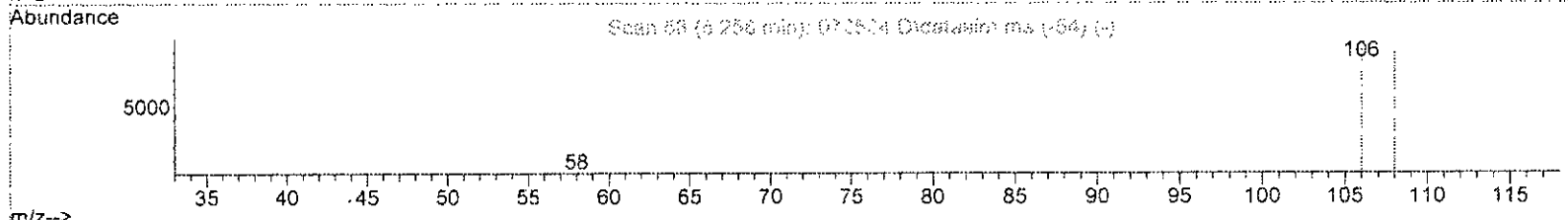
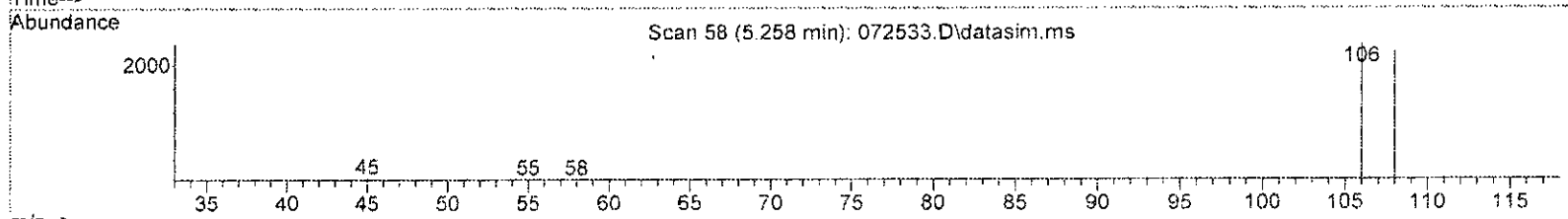
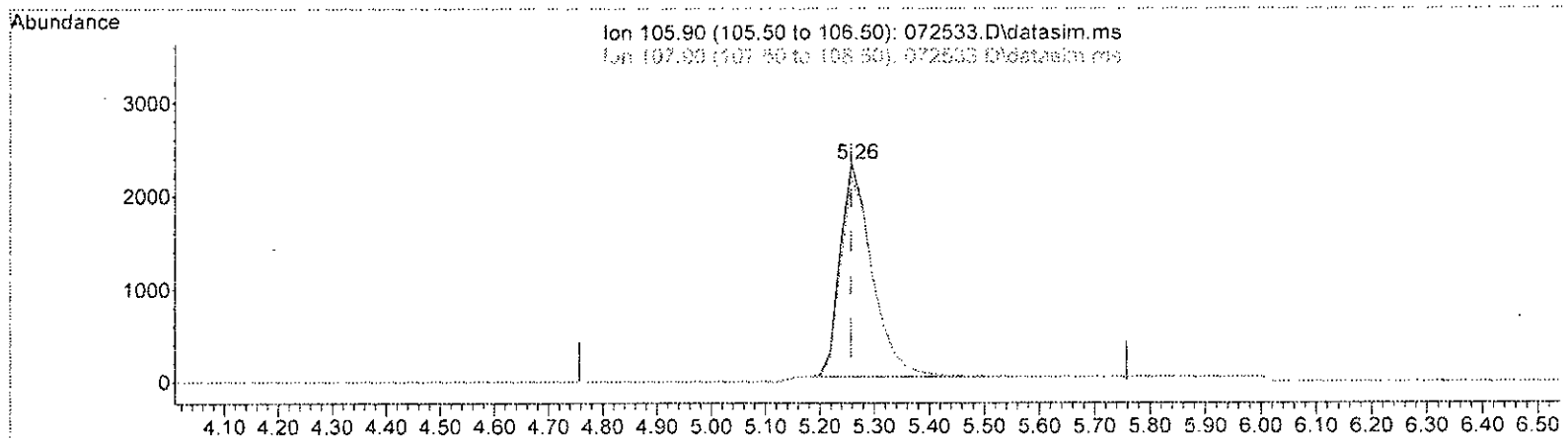
(11) Vinyl bromide (TMP)		
5.258min (-0.000)	3.586 ppbv	
response	11795	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.77
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: S. H. / 2/2/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(11) Vinyl bromide (TMP)

5.258min (-0.000) 2.873 ppbv m

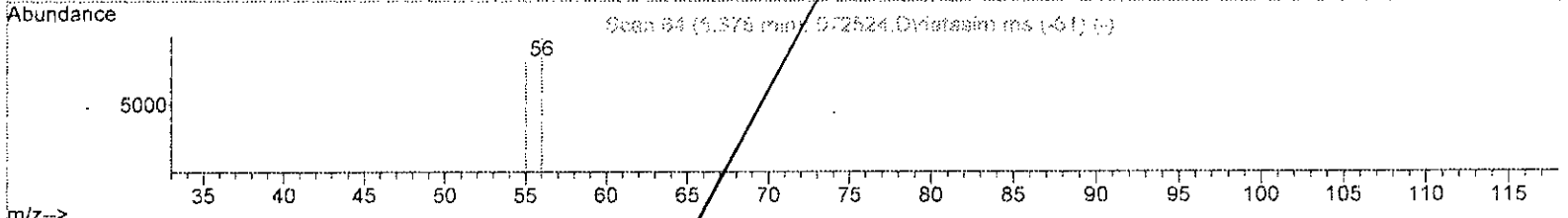
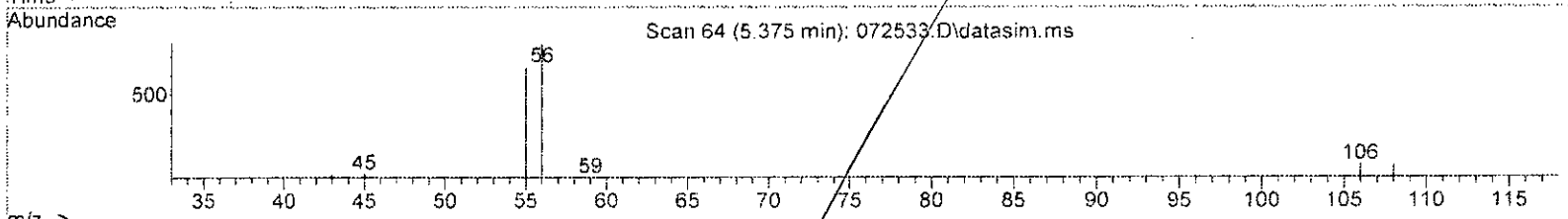
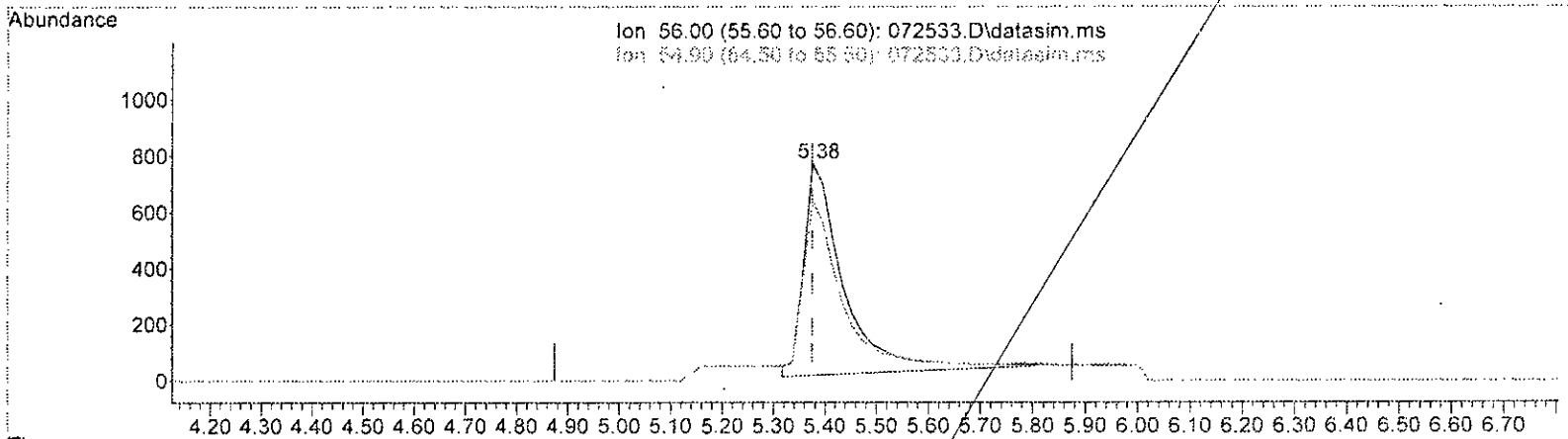
response	9450	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	118.29#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: s/Hub*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

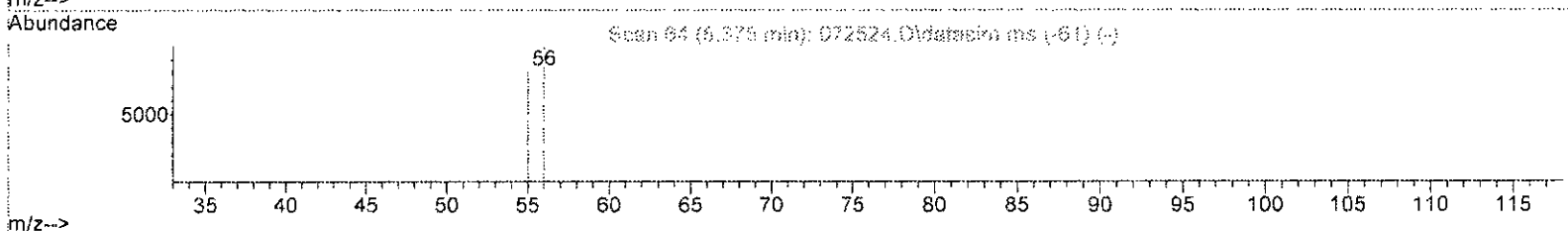
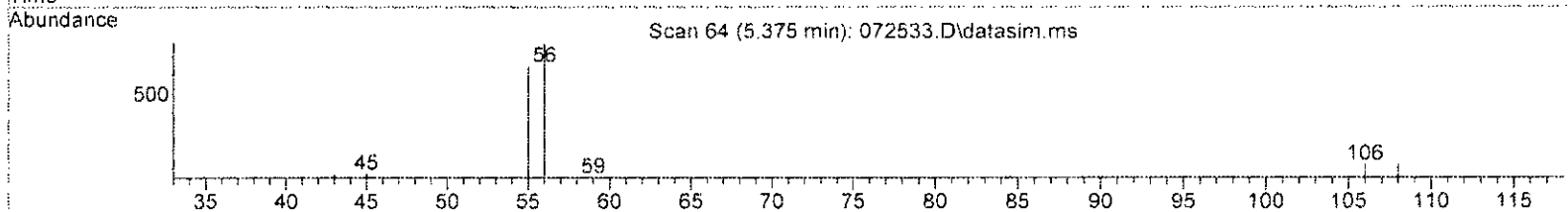
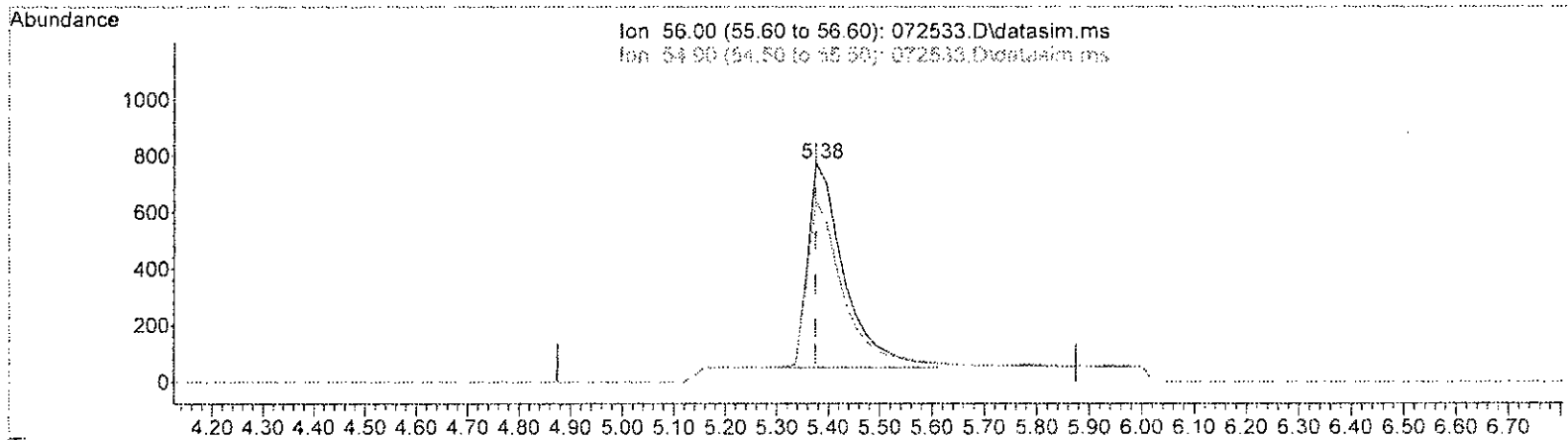
(13) Acrolein (TMP)		
5.375min (+ 0.000)	2.971 ppbv	
response	4127	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	82.97
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: L. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M



TIC: 072533.D\data.ms

(13) Acrolein (TMP)

5.375min (+ 0.000) 2.535 ppbv m

response 3521

Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	97.25
0.00	0.00	0.00
0.00	0.00	0.00

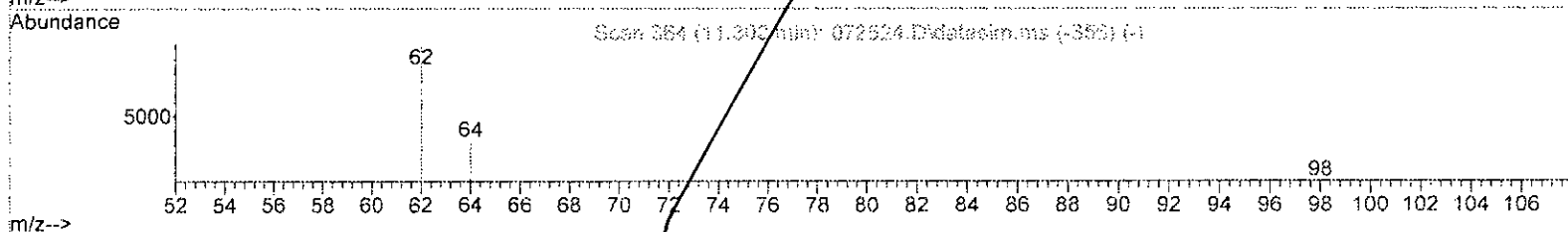
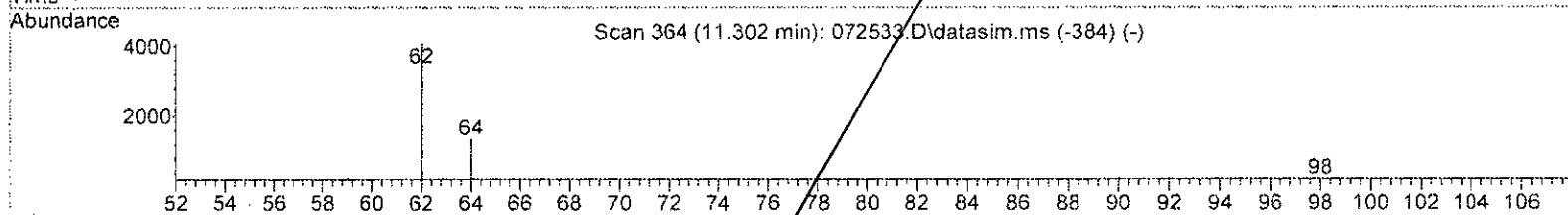
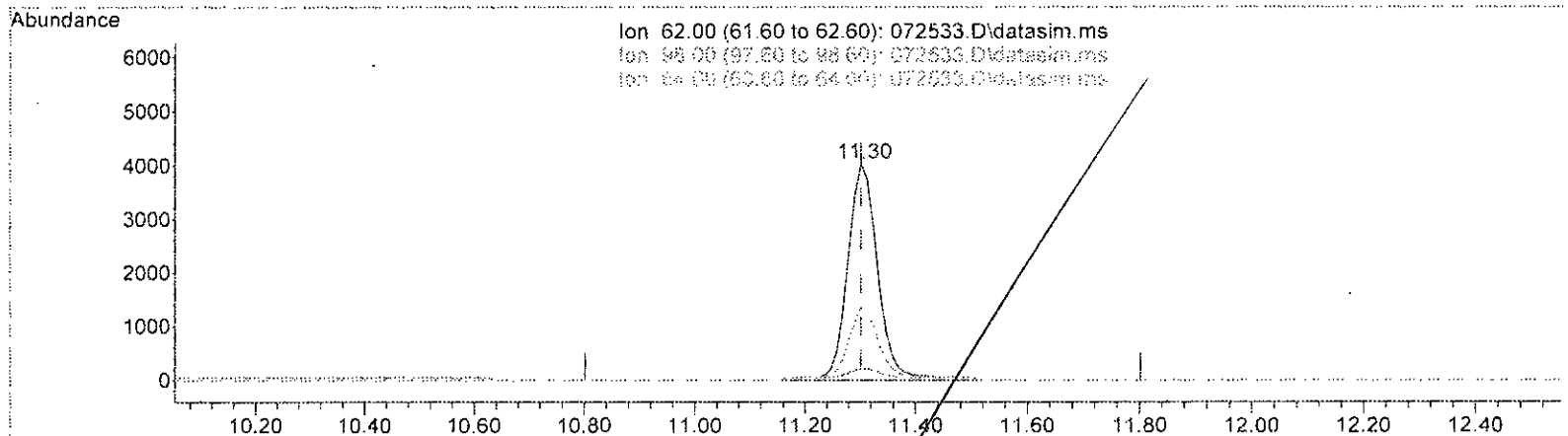
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 2.830 ppbv

response 15292

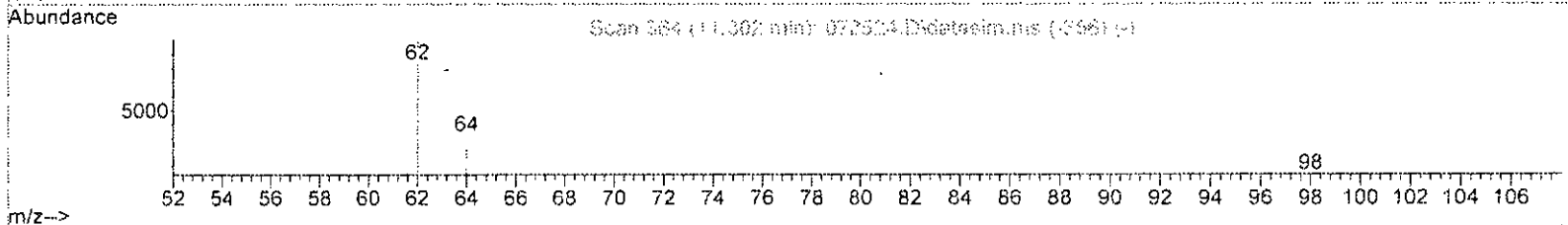
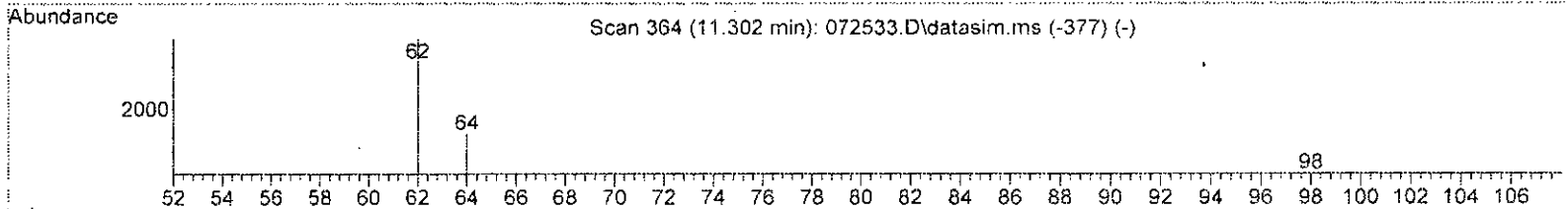
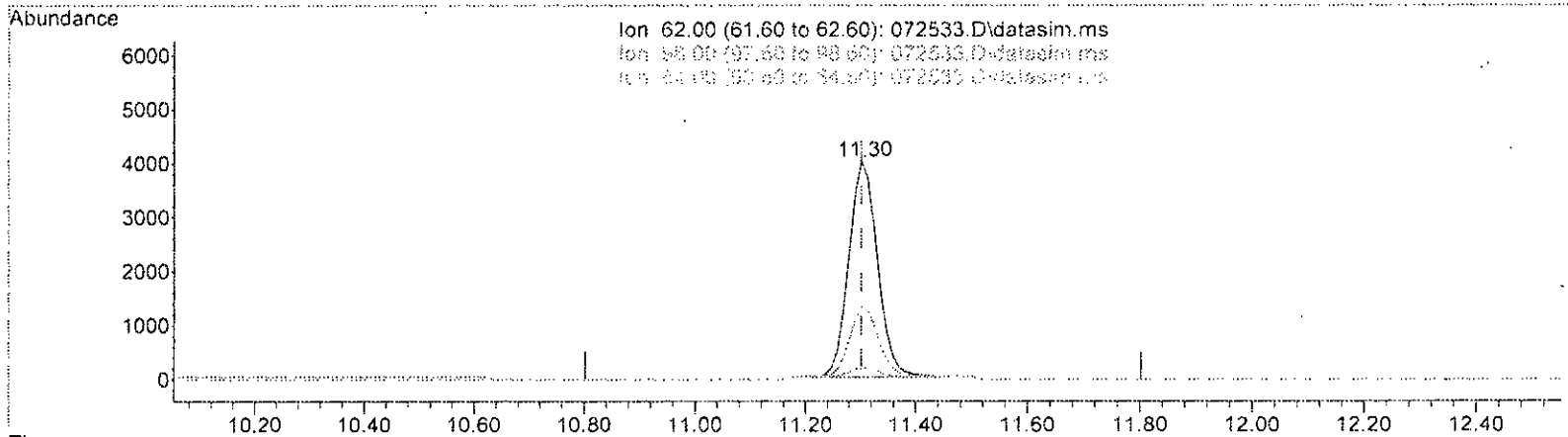
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	5.39
64.00	33.00	33.35
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

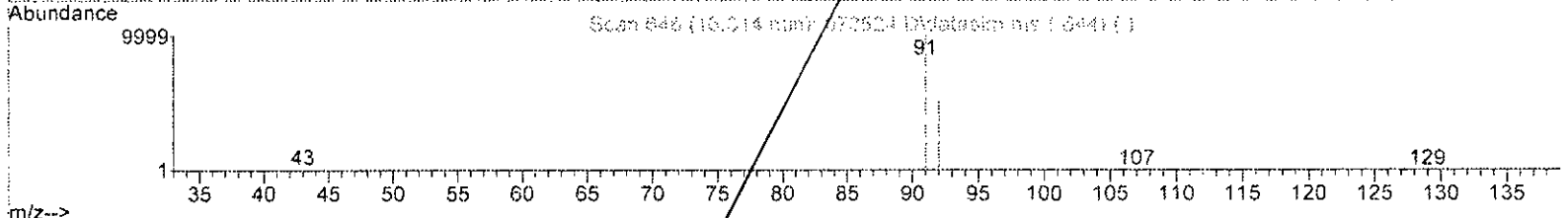
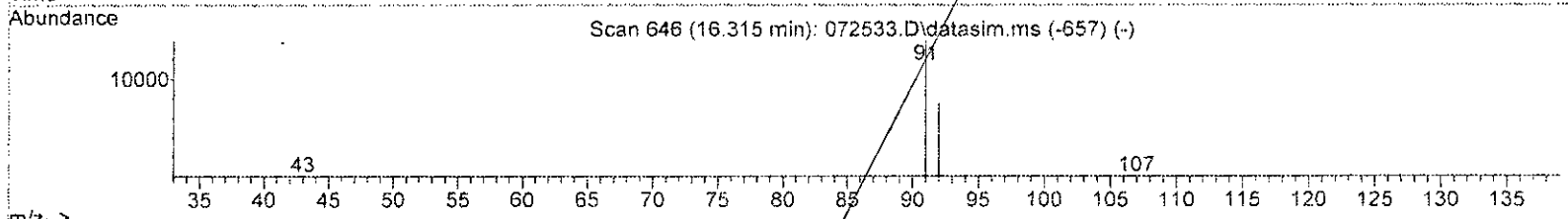
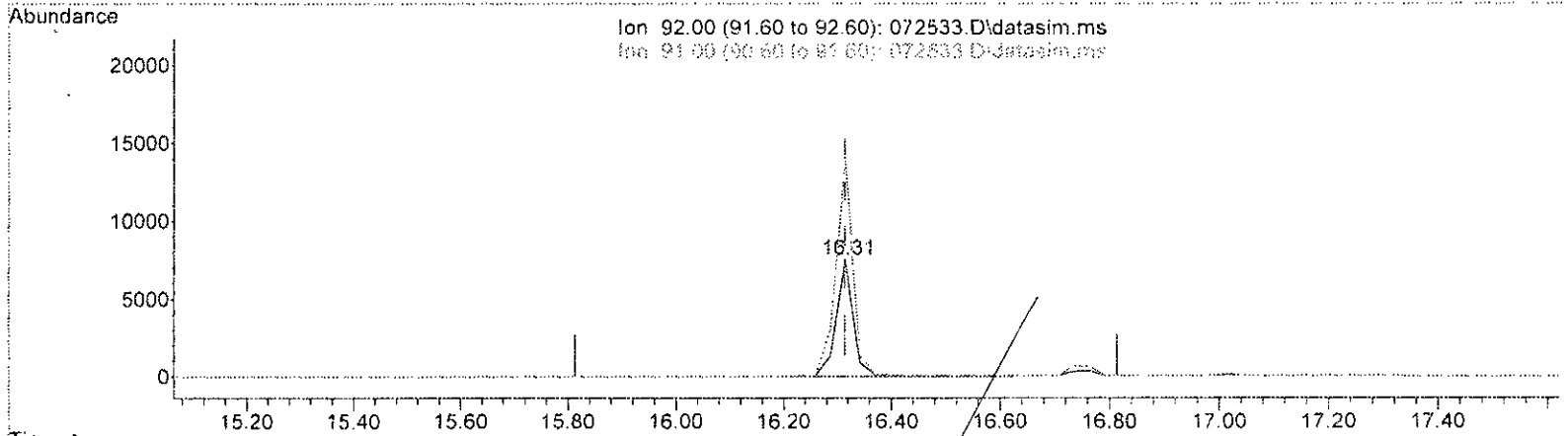
11.302min (+ 0.000)	2.664 ppbv m
response	14395
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 5.39
64.00	33.00 33.35
0.00	0.00 0.00

*Handwritten signature: S. Holly*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

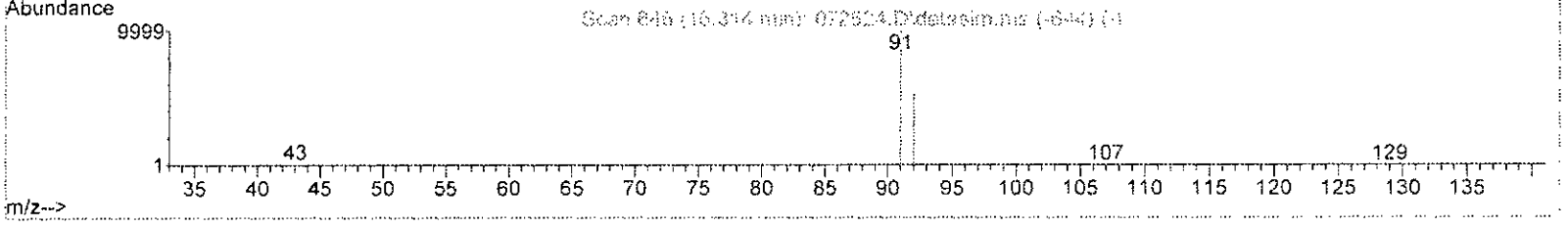
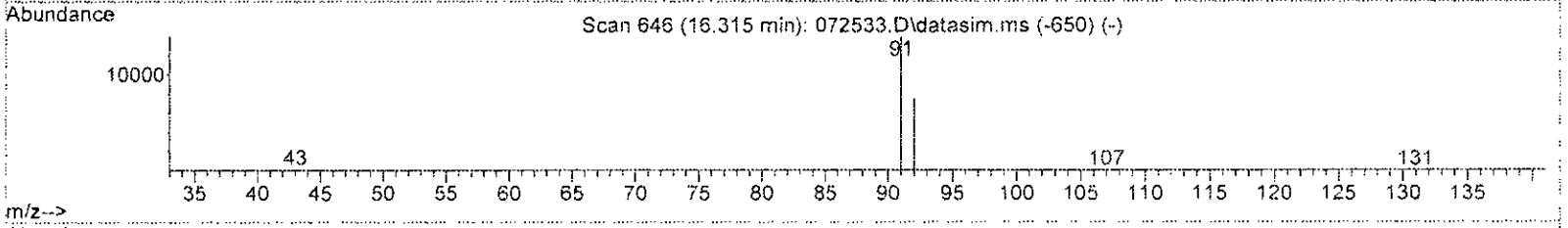
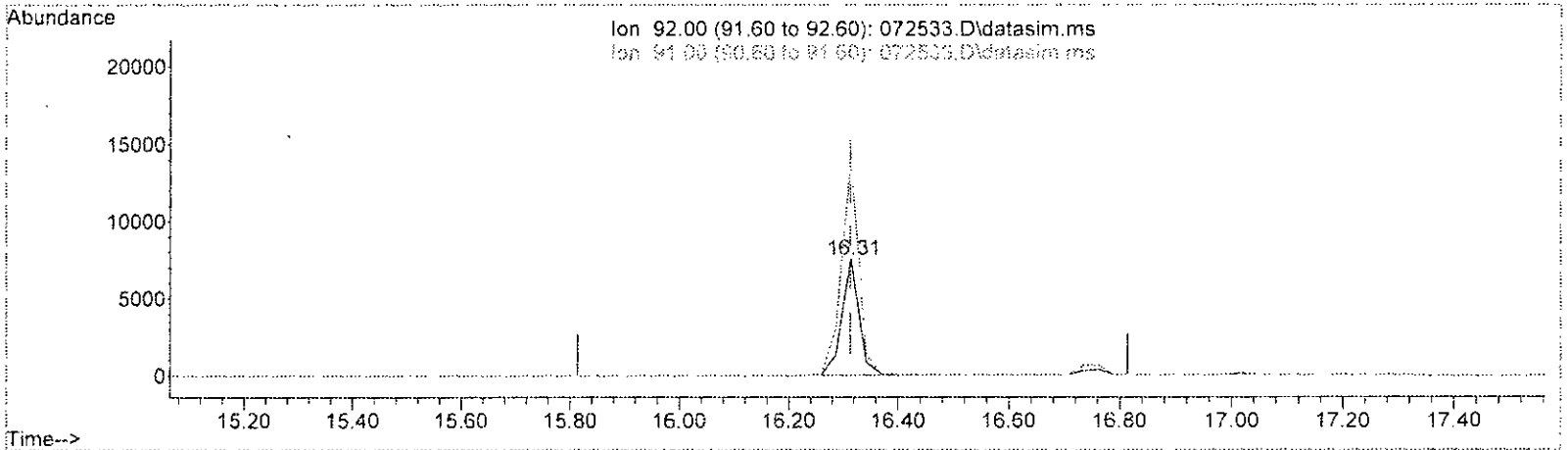
(50) Toluene (TMP)		
16.315min (+ 0.001)	2.777 ppbv	
response	17147	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	185.55
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

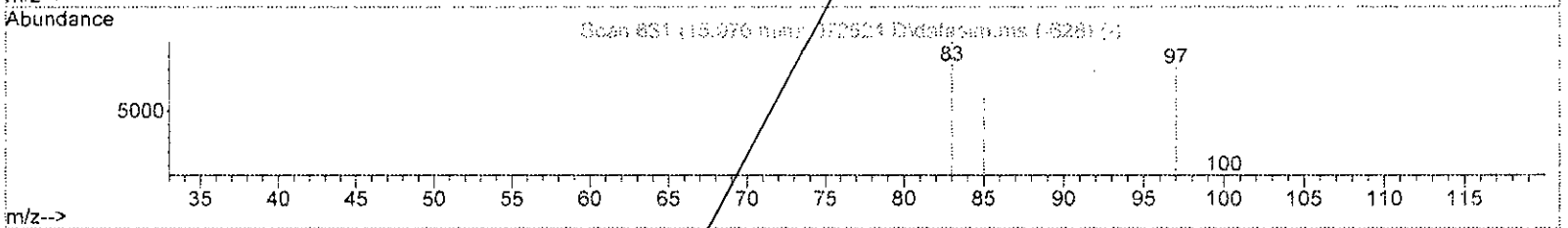
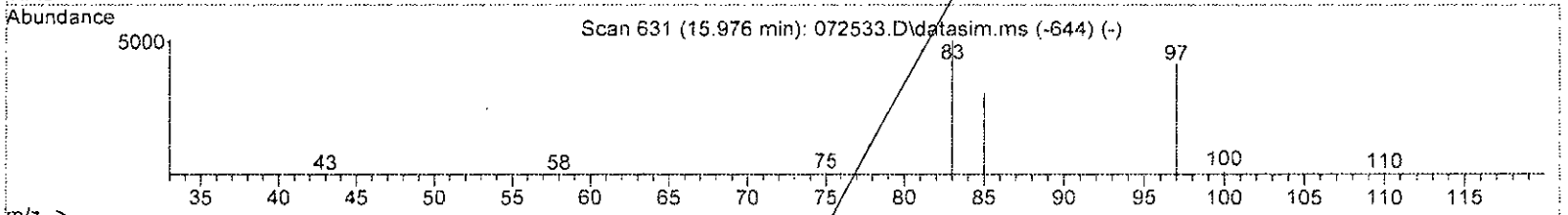
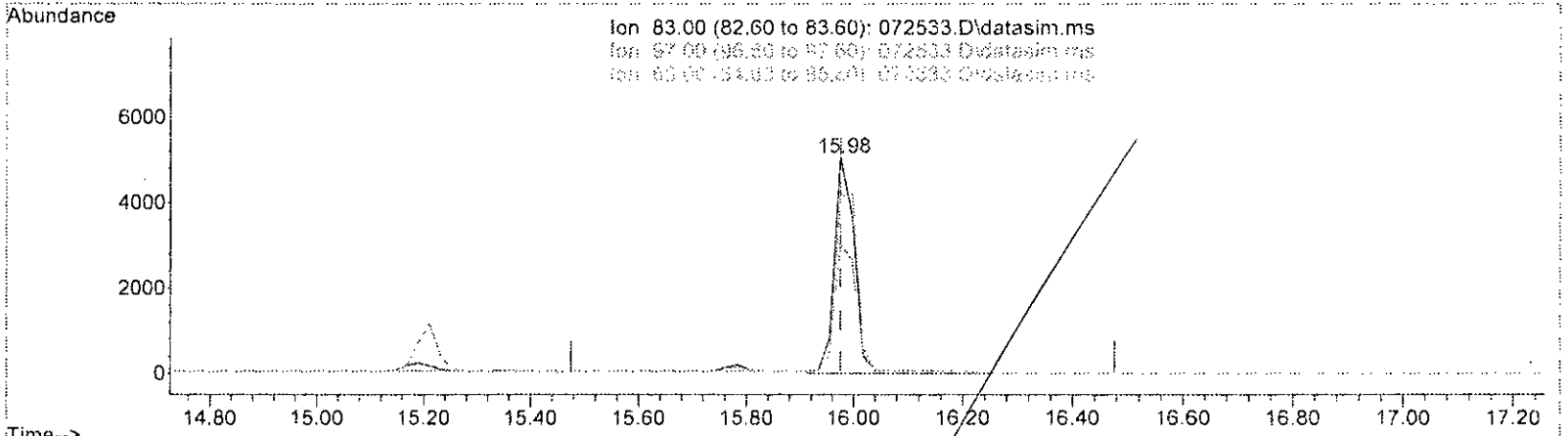
(50) Toluene (TMP)		
16.315min (+ 0.001)	2.671 ppbv m	
response	16493	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	185.55
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report.(Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.976min (-0.000) 2.918 ppbv

response 13723

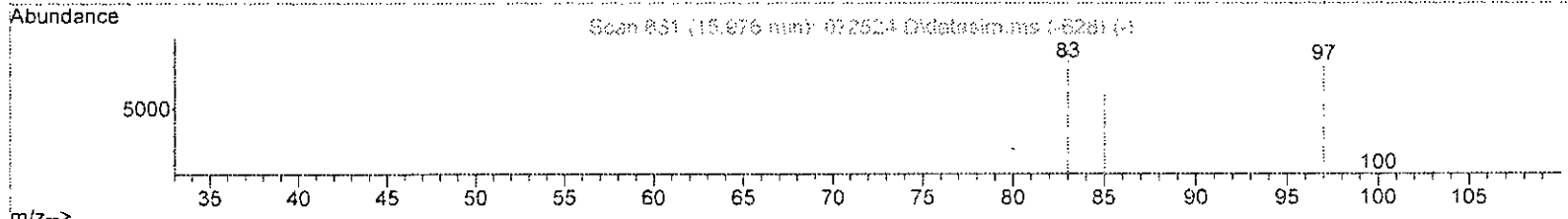
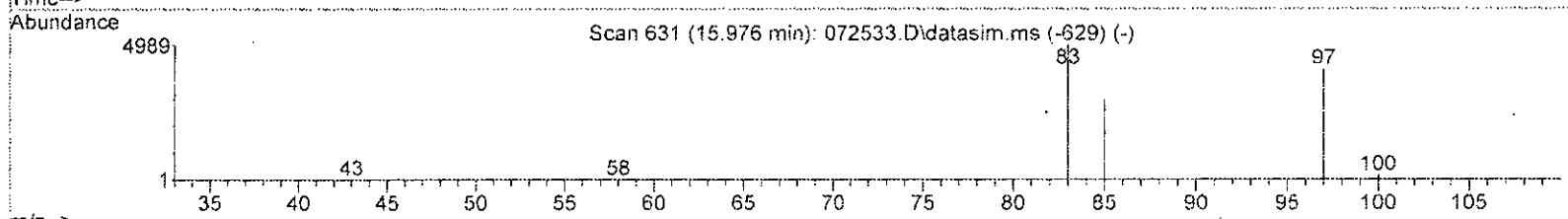
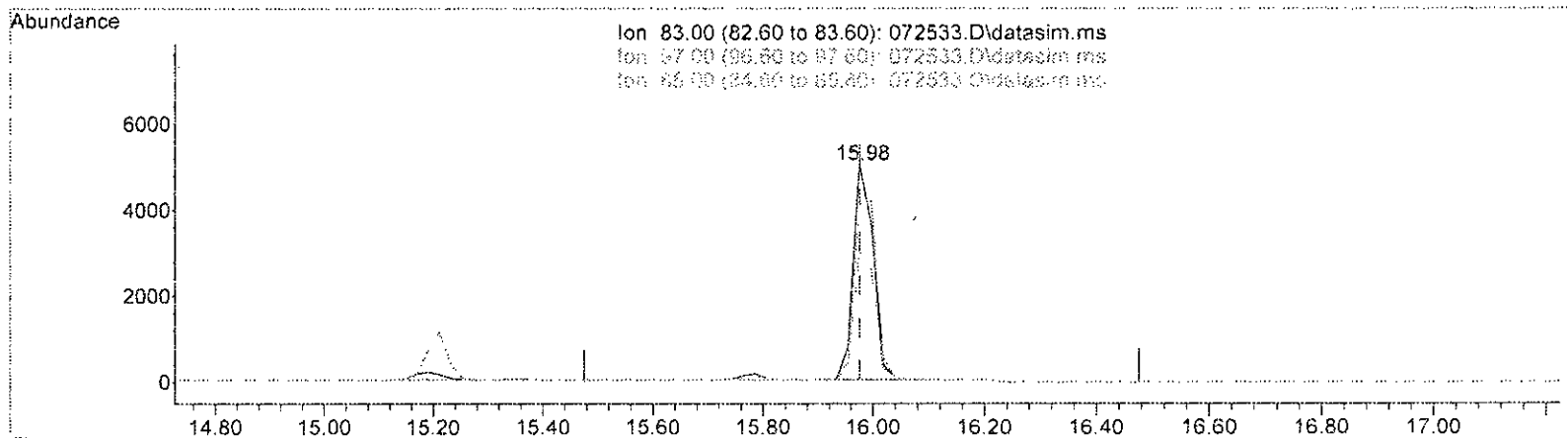
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	81.97
85.00	60.50	59.91
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(51) 1,1,2-Trichloroethane (TME)

15.976min (-0.000) 2.661 ppbv m

response 12514

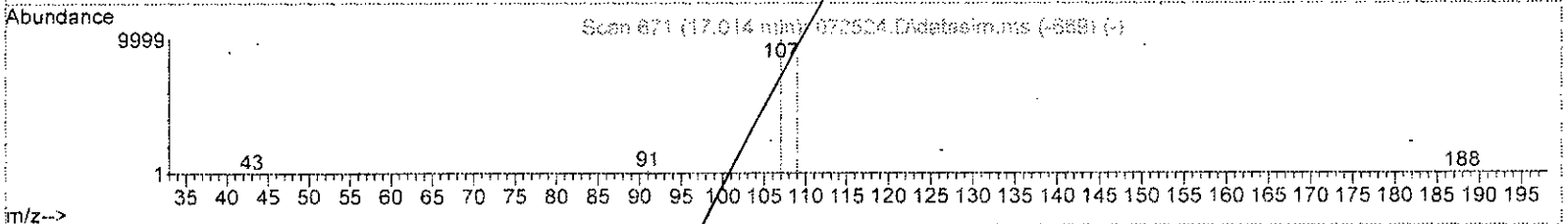
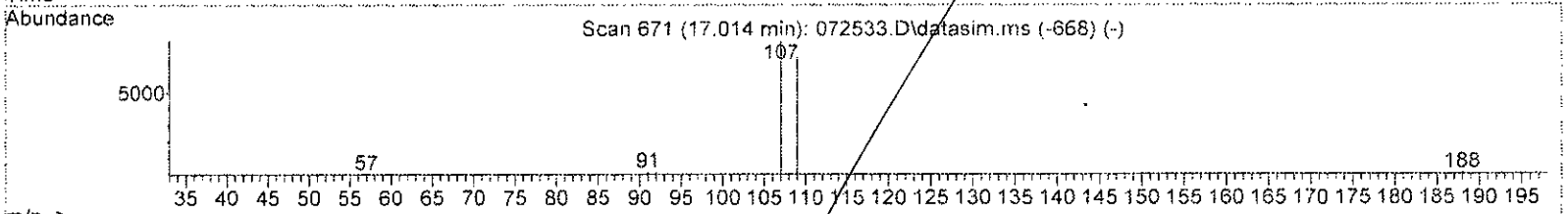
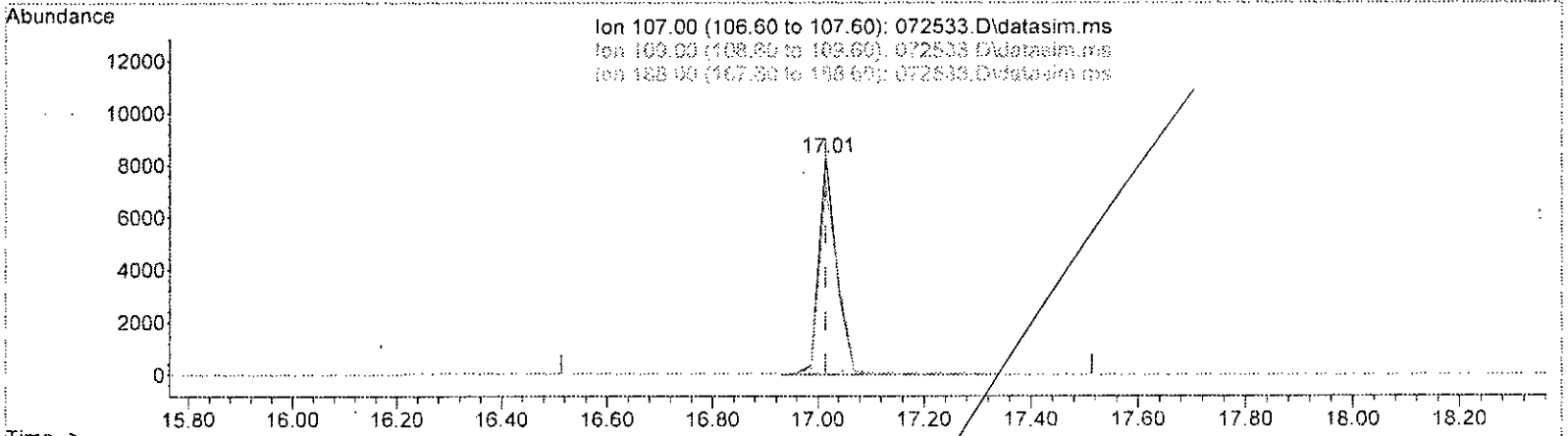
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	81.97
85.00	60.50	59.91
0.00	0.00	0.00

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 2.679 ppbv

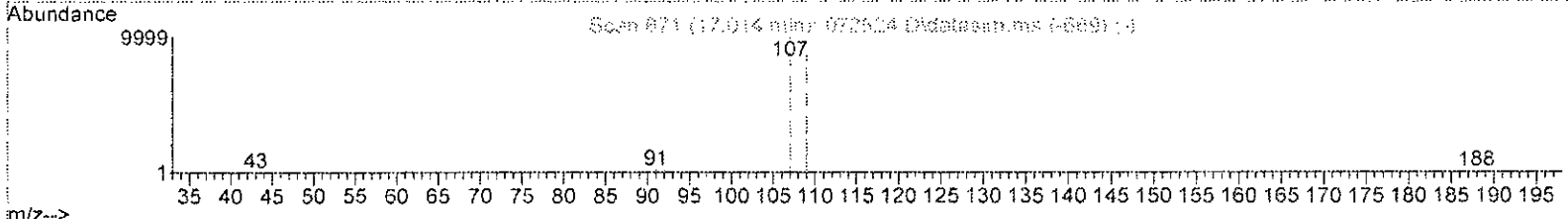
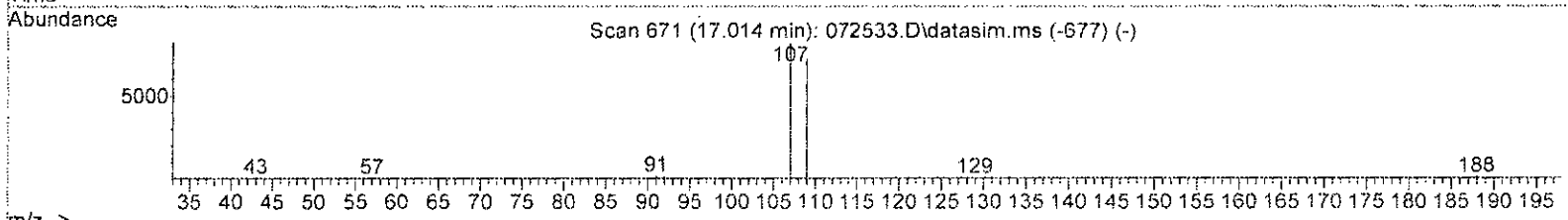
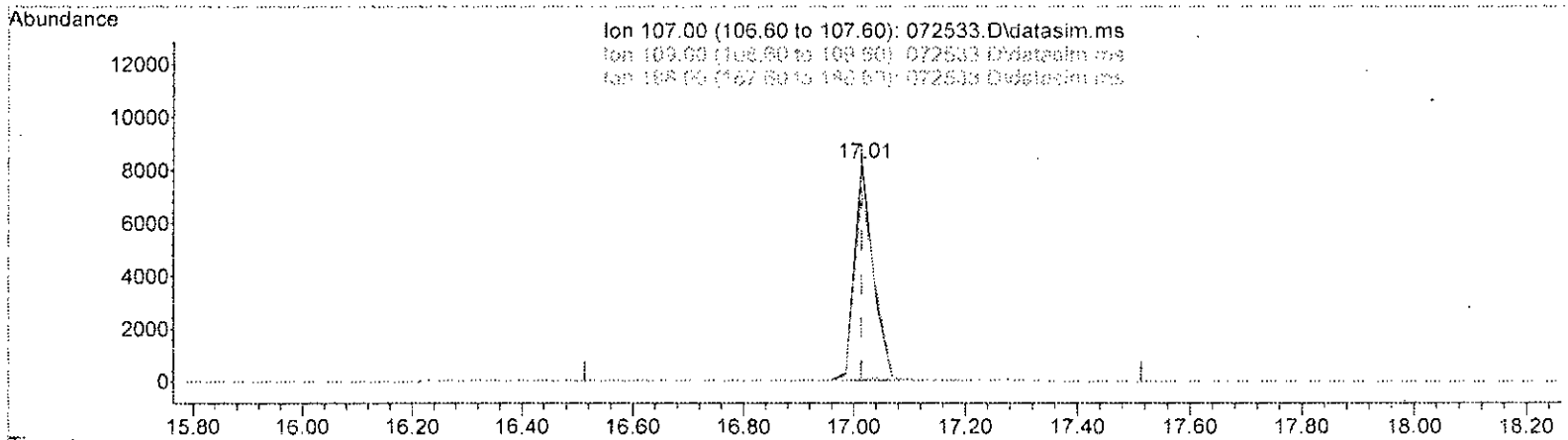
response	19820	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.15
188.00	2.70	1.30
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 2.624 ppbv m

response 19417

Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	87.15
188.00	2.70	1.30
0.00	0.00	0.00

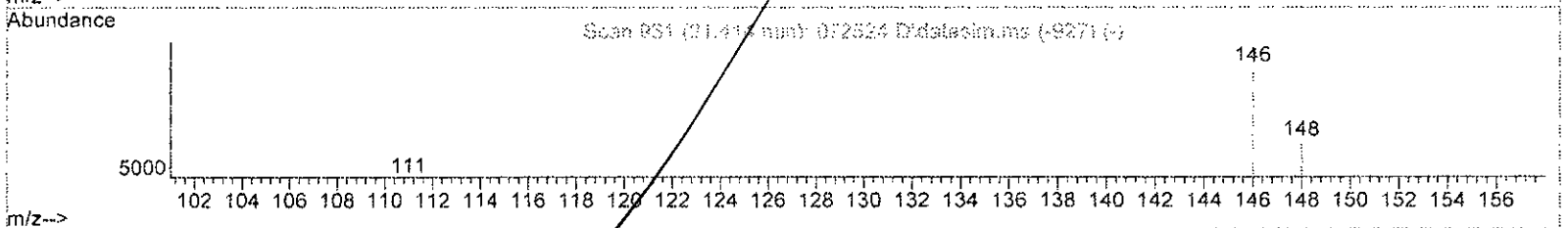
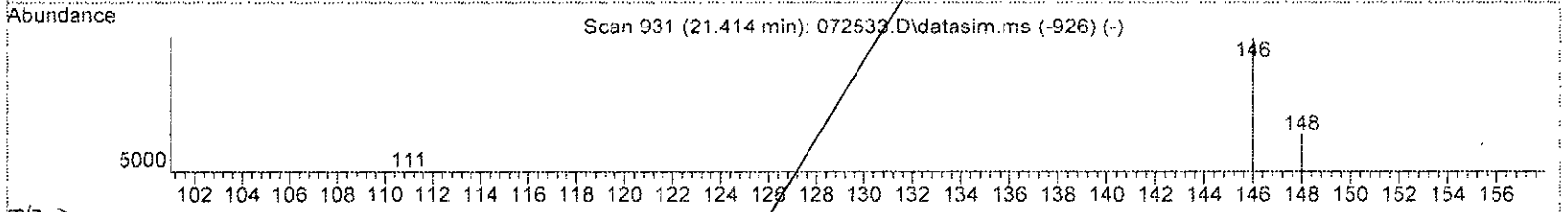
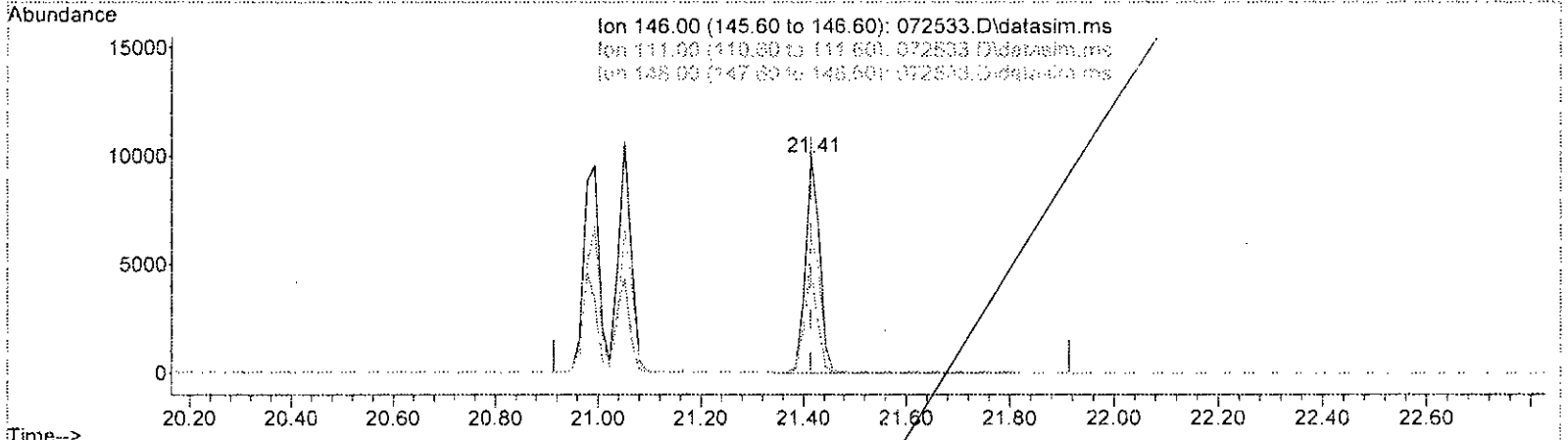
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 072533.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.414min (+ 0.000) 2.947 ppbv

response 19993

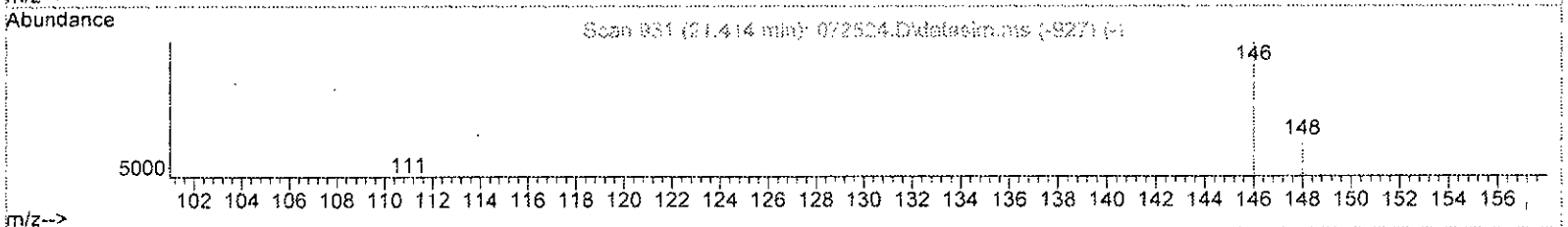
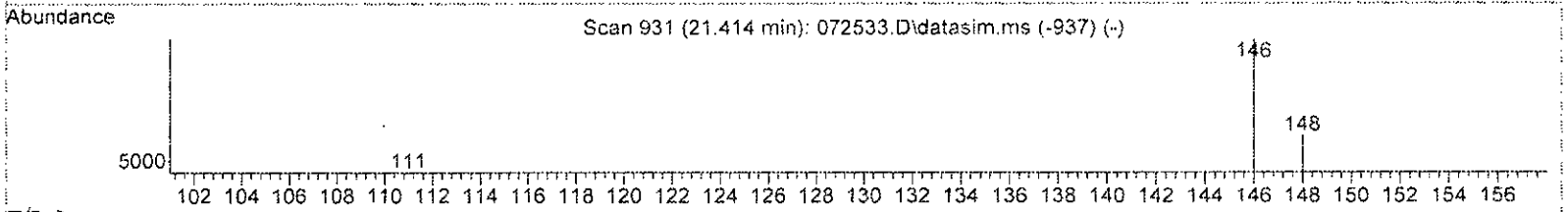
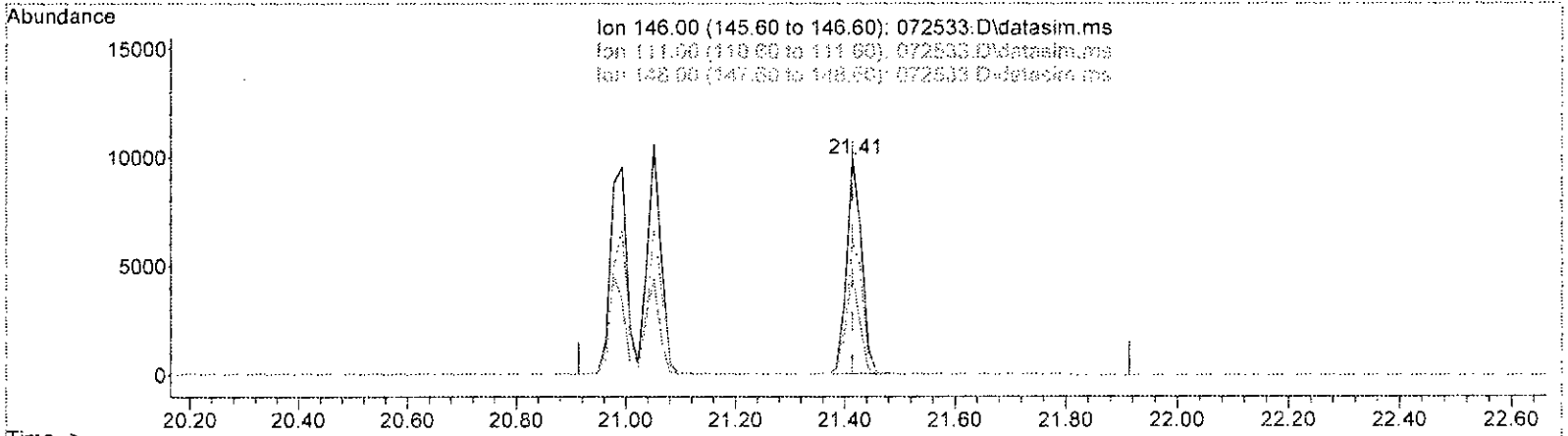
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	42.90	45.97
148.00	63.20	60.86
0.00	0.00	0.00

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725TO15ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 072533.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)			
21.414min (+ 0.000)		2.759 ppbv m	
response	18722		
Ion	Exp%	Act%	
146.00	100.00	100.00	
111.00	42.90	45.97	
148.00	63.20	60.86	
0.00	0.00	0.00	

*Handwritten signature: H/hk*

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	19063	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	81190	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	72497	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	52579	9.788	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	6392	2.746	ppbv	100
3) Dichlorodifluoromethane	3.49	85	26472	2.824	ppbv	99
4) Chloromethane	3.69	50	8552	2.618	ppbv	96
5) F-114	3.88	85	22994	2.813	ppbv	90
6] Vinyl chloride	4.01	62	10521	2.850	ppbv	96
7] 1,3-Butadiene	4.21	54	6562	2.771	ppbv #	85
8) Butane	4.28	43	13450	2.841	ppbv #	80
9) Bromomethane	4.56	94	9304	2.852	ppbv	97
10] Chloroethane	4.80	64	3769m	2.868	ppbv	
11] Vinyl bromide	5.26	106	9450m	2.873	ppbv	
12) Ethanol	4.92	45	2823	2.725	ppbv	89
13] Acrolein	5.38	56	3521m	2.535	ppbv	
14) Pentane	6.25	43	15293	2.826	ppbv	96
15) Trichlorofluoromethane	5.82	101	26791	2.930	ppbv	97
16) Acetone	5.55	58	3494	2.734	ppbv	96
17) 2-Propanol	5.78	45	12622	2.260	ppbv	89
18] 1,1-Dichloroethene	6.65	96	8700	2.781	ppbv	98
19] trans-1,2-Dichloroethene	8.07	96	8494	2.741	ppbv #	79
20) Methylene chloride	6.75	84	8491	2.778	ppbv	92
21) t-Butyl alcohol (TBA)	6.57	59	13615	2.808	ppbv #	61
22) 3-Chloropropene	6.94	41	12247	3.095	ppbv	96
23) CFC-113	7.15	101	20091	2.990	ppbv	98
24) Carbon disulfide	7.25	76	28629	2.821	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	18557	2.808	ppbv	95
26) Vinyl acetate	8.51	43	18591	2.524	ppbv	94
27] 1,1-Dichloroethane	8.33	63	19351	2.822	ppbv	97
28] cis-1,2-Dichloroethene	9.60	96	9015	2.665	ppbv	84
29) Hexane	9.99	57	11935	2.870	ppbv	97
30] Chloroform	10.07	83	21500	2.694	ppbv	99
31) Ethyl acetate	9.90	43	20088	2.731	ppbv #	95
32) Tetrahydrofuran	10.72	42	9799	2.821	ppbv	96
33) 2-Butanone (MEK)	8.88	72	2999	2.634	ppbv	99
34] 1,2-Dichloroethane (EDC)	11.30	62	14395m	2.664	ppbv	
35] 1,1,1-Trichloroethane	11.79	97	17798	2.732	ppbv	94
36] Carbon tetrachloride	12.83	117	18859	2.802	ppbv	99
37] Benzene	12.58	78	28526	2.670	ppbv	98
38) Cyclohexane	13.04	84	7337	2.749	ppbv	89
40] 1,2-Dichloropropane	13.77	63	13804	2.747	ppbv	99

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

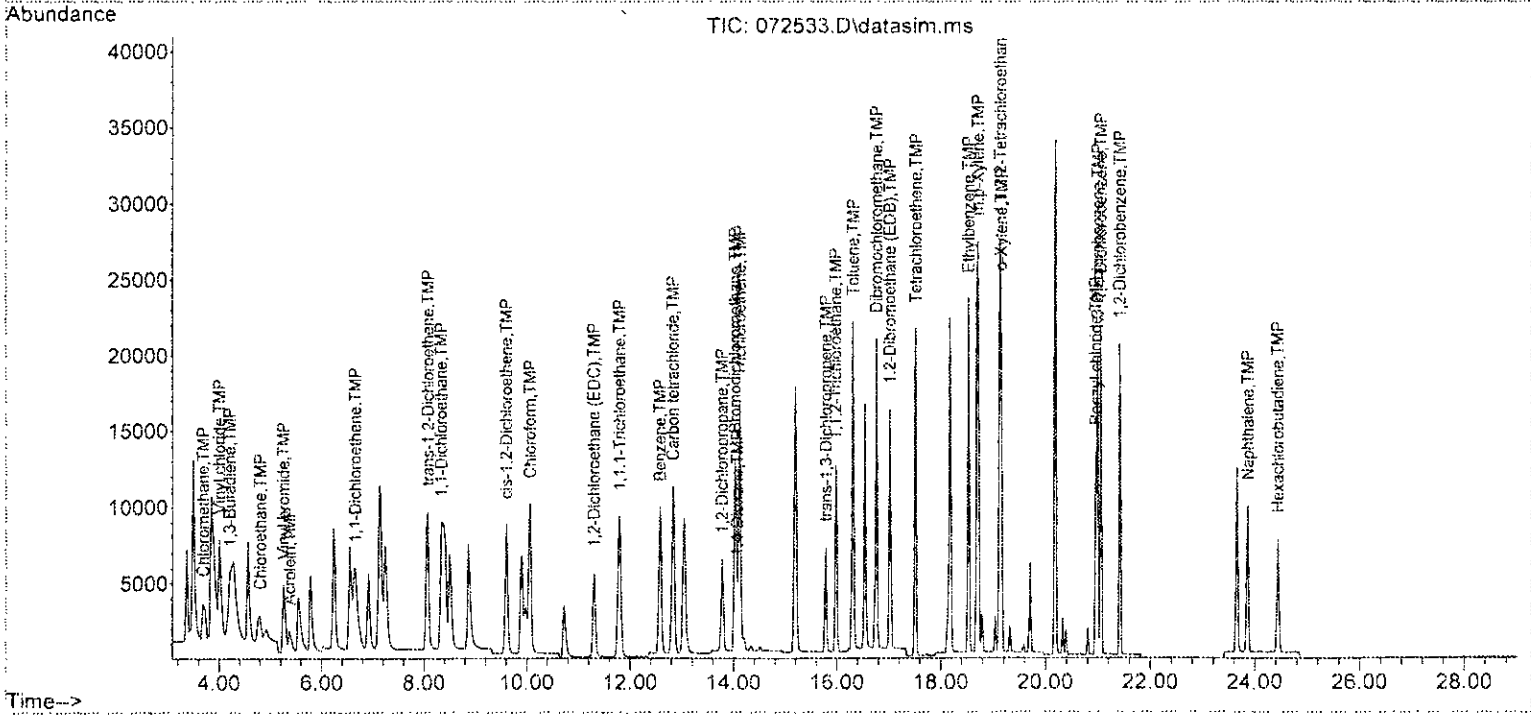
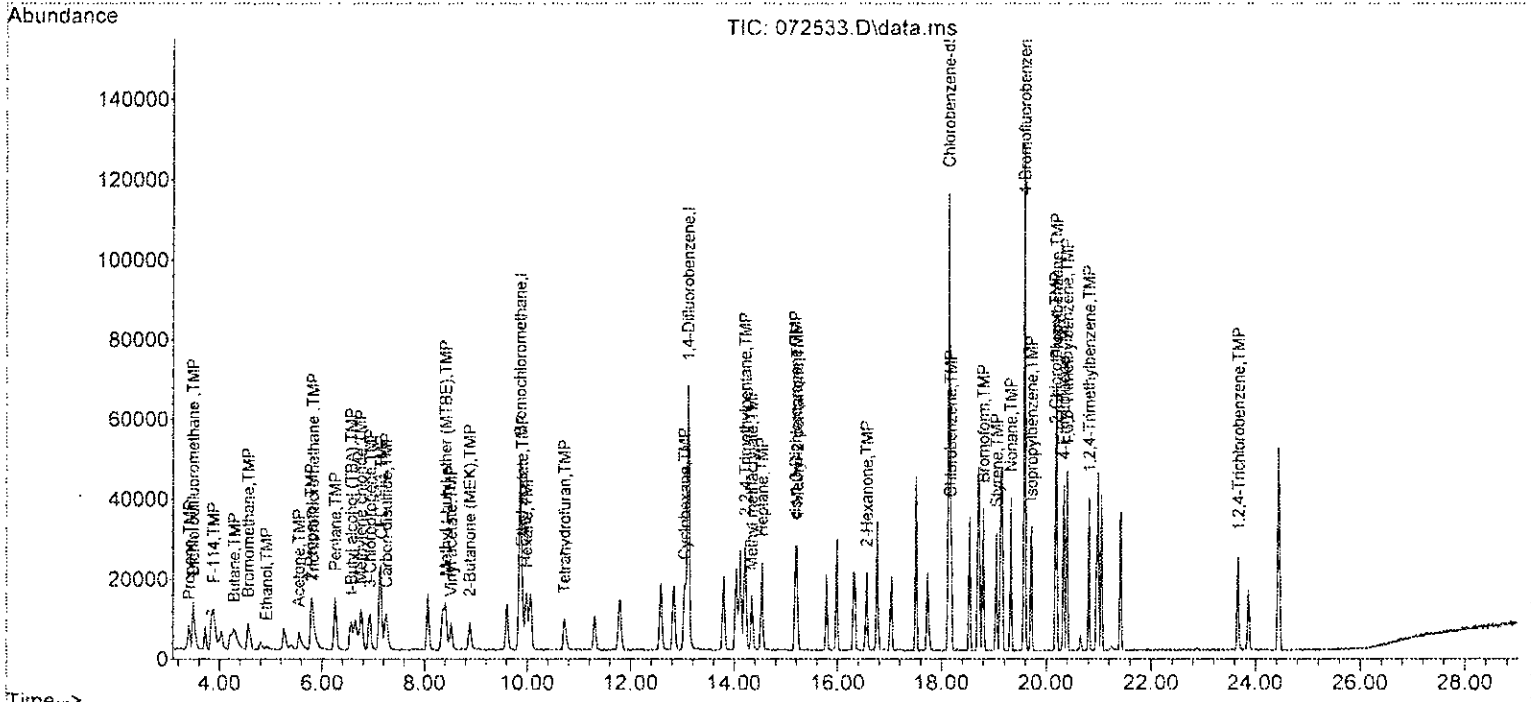
Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	5712	3.014	ppbv	88
42] 2,2,4-Trimethylpentane	14.21	57	41001	2.758	ppbv	91
43] Methyl methacrylate	14.34	41	11233	2.589	ppbv	96
44] Heptane	14.53	43	14260	2.676	ppbv	97
45] Bromodichloromethane	14.02	83	21482	2.635	ppbv	99
46] Trichloroethene	14.12	95	13662	2.620	ppbv	97
47] cis-1,3-Dichloropropene	15.18	75	14799	2.717	ppbv	98
48] 4-Methyl-2-pentanone	15.21	100	979	2.972	ppbv #	86
49] trans-1,3-Dichloropropene	15.78	75	13694	2.784	ppbv	93
50] Toluene	16.31	92	16493m	2.671	ppbv	
51] 1,1,2-Trichloroethane	15.98	83	12514m	2.661	ppbv	
52] 2-Hexanone	16.56	43	20019	2.956	ppbv	96
53] Tetrachloroethene	17.52	164	10295	2.815	ppbv	92
54] Dibromochloromethane	16.76	129	21355	2.849	ppbv	92
55] 1,2-Dibromoethane (EDB)	17.01	107	19417m	2.624	ppbv	
57] Chlorobenzene	18.17	112	20184	2.605	ppbv	92
58] Ethylbenzene	18.53	91	33085	2.535	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	28632	2.609	ppbv	93
60] Nonane	19.32	43	16698	2.622	ppbv	97
61] Isopropylbenzene	19.72	105	27830	2.472	ppbv	99
62] 2-Chlorotoluene	20.17	126	7643	2.622	ppbv	98
63] Propylbenzene	20.19	91	62794	2.671	ppbv	98
64] 4-Ethyltoluene	20.33	105	29600	2.749	ppbv	97
65] m,p-Xylene	18.70	106	22216	5.047	ppbv	99
66] o-Xylene	19.15	106	10602	2.641	ppbv	94
67] Styrene	19.05	104	14556	2.617	ppbv	91
68] Bromoform	18.80	173	20074	3.095	ppbv	99
70] Benzyl chloride	20.95	91	20003	2.963	ppbv	91
71] 1,3,5-Trimethylbenzene	20.39	105	27146	2.826	ppbv	95
72] 1,2,4-Trimethylbenzene	20.81	105	23571	2.794	ppbv	99
73] 1,3-Dichlorobenzene	20.99	146	19562	2.777	ppbv	89
74] 1,4-Dichlorobenzene	21.05	146	18086	2.772	ppbv	93
75] 1,2-Dichlorobenzene	21.41	146	18722m	2.759	ppbv	
76] 1,2,4-Trichlorobenzene	23.67	180	11501	2.687	ppbv	99
77] Naphthalene	23.86	128	20196	2.560	ppbv	99
78] Hexachlorobutadiene	24.44	225	15883	2.638	ppbv	99

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

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



## Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	2.500	2.746	-9.8	99	0.00
3 TMP	Dichlorodifluoromethane	2.500	2.824	-13.0	97	0.00
4 TMP	Chloromethane	2.500	2.618	-4.7	101	0.00
5 TMP	F-114	2.500	2.813	-12.5	92	0.00
6 TMP	Vinyl chloride	2.500	2.850	-14.0	99	0.00
7 TMP	1,3-Butadiene	2.500	2.771	-10.8	100	0.00
8 TMP	Butane	2.500	2.841	-13.6	101	0.00
9 TMP	Bromomethane	2.500	2.852	-14.1	102	0.00
10 TMP	Chloroethane	2.500	2.868	-14.7	103	0.00
11 TMP	Vinyl bromide	2.500	2.873	-14.9	101	0.00
12 TMP	Ethanol	2.500	2.725	-9.0	91	0.00
13 TMP	Acrolein	2.500	2.535	-1.4	96	0.00
14 TMP	Pentane	2.500	2.826	-13.0	101	0.00
15 TMP	Trichlorofluoromethane	2.500	2.930	-17.2	98	0.02
16 TMP	Acetone	2.500	2.734	-9.4	105	0.00
17 TMP	2-Propanol	2.500	2.260	9.6	92	0.00
18 TMP	1,1-Dichloroethene	2.500	2.781	-11.2	101	0.00
19 TMP	trans-1,2-Dichloroethene	2.500	2.741	-9.6	99	0.00
20 TMP	Methylene chloride	2.500	2.778	-11.1	92	-0.03
21 TMP	t-Butyl alcohol (TBA)	2.500	2.808	-12.3	100	0.00
22 TMP	3-Chloropropene	2.500	3.095	-23.8	103	0.00
23 TMP	CFC-113	2.500	2.990	-19.6	104	0.00
24 TMP	Carbon disulfide	2.500	2.821	-12.8	101	0.00
25 TMP	Methyl t-butyl ether (MTBE)	2.500	2.808	-12.3	103	0.00
26 TMP	Vinyl acetate	2.500	2.524	-1.0	91	0.00
27 TMP	1,1-Dichloroethane	2.500	2.822	-12.9	101	0.00
28 TMP	cis-1,2-Dichloroethene	2.500	2.665	-6.6	100	0.00
29 TMP	Hexane	2.500	2.870	-14.8	103	0.00
30 TMP	Chloroform	2.500	2.694	-7.8	98	0.00
31 TMP	Ethyl acetate	2.500	2.731	-9.2	99	0.00
32 TMP	Tetrahydrofuran	2.500	2.821	-12.8	101	0.00
33 TMP	2-Butanone (MEK)	2.500	2.634	-5.4	98	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.500	2.664	-6.6	100	0.00
35 TMP	1,1,1-Trichloroethane	2.500	2.732	-9.3	97	0.00
36 TMP	Carbon tetrachloride	2.500	2.802	-12.1	99	0.00
37 TMP	Benzene	2.500	2.670	-6.8	100	0.00
38 TMP	Cyclohexane	2.500	2.749	-10.0	99	0.00
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	101	0.00
40 TMP	1,2-Dichloropropane	2.500	2.747	-9.9	102	0.00
41 TMP	1,4-Dioxane	2.500	3.014	-20.6	112	0.00
42 TMP	2,2,4-Trimethylpentane	2.500	2.758	-10.3	100	0.00
43 TMP	Methyl methacrylate	2.500	2.589	-3.6	96	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.676	-7.0	99	0.00
45 TMP Bromodichloromethane	2.500	2.635	-5.4	94	0.00
46 TMP Trichloroethene	2.500	2.620	-4.8	98	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.717	-8.7	97	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.972	-18.9	131	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.784	-11.4	101	0.00
50 TMP Toluene	2.500	2.671	-6.8	99	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.661	-6.4	98	0.00
52 TMP 2-Hexanone	2.500	2.956	-18.2	104	0.00
53 TMP Tetrachloroethene	2.500	2.815	-12.6	100	0.00
54 TMP Dibromochloromethane	2.500	2.849	-14.0	102	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.624	-5.0	97	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	106	0.00
57 TMP Chlorobenzene	2.500	2.605	-4.2	98	-0.02
58 TMP Ethylbenzene	2.500	2.535	-1.4	97	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.609	-4.4	100	0.00
60 TMP Nonane	2.500	2.622	-4.9	98	0.00
61 TMP Isopropylbenzene	2.500	2.472	1.1	90	0.00
62 TMP 2-Chlorotoluene	2.500	2.622	-4.9	94	0.00
63 TMP Propylbenzene	2.500	2.671	-6.8	100	0.00
64 TMP 4-Ethyltoluene	2.500	2.749	-10.0	98	0.00
65 TMP m,p-Xylene	5.000	5.047	-0.9	98	0.00
66 TMP o-Xylene	2.500	2.641	-5.6	98	0.00
67 TMP Styrene	2.500	2.617	-4.7	96	0.00
68 TMP Bromoform	2.500	3.095	-23.8	115	0.00
69 S 4-Bromofluorobenzene	10.000	9.788	2.1	101	0.00
70 TMP Benzyl chloride	2.500	2.963	-18.5	108	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.826	-13.0	100	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	2.794	-11.8	97	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.777	-11.1	102	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.772	-10.9	103	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.759	-10.4	102	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.687	-7.5	107	0.00
77 TMP Naphthalene	2.500	2.560	-2.4	106	0.00
78 TMP Hexachlorobutadiene	2.500	2.638	-5.5	99	0.00

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv TO15 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.221	1.341	-9.8	99	0.00
3 TMP Dichlorodifluoromethane	4.917	5.555	-13.0	97	0.00
4 TMP Chloromethane	1.713	1.794	-4.7	101	0.00
5 TMP F-114	4.288	4.825	-12.5	92	0.00
6 TMP Vinyl chloride	1.937	2.208	-14.0	99	0.00
7 TMP 1,3-Butadiene	1.242	1.377	-10.9	100	0.00
8 TMP Butane	2.483	2.822	-13.7	101	0.00
9 TMP Bromomethane	1.711	1.952	-14.1	102	0.00
10 TMP Chloroethane	0.689	0.791	-14.8	103	0.00
11 TMP Vinyl bromide	1.725	1.983	-15.0	101	0.00
12 TMP Ethanol	0.543	0.592	-9.0	91	0.00
13 TMP Acrolein	0.729	0.739	-1.4	96	0.00
14 TMP Pentane	2.839	3.209	-13.0	101	0.00
15 TMP Trichlorofluoromethane	4.796	5.622	-17.2	98	0.02
16 TMP Acetone	0.670	0.733	-9.4	105	0.00
17 TMP 2-Propanol	2.930	2.648	9.6	92	0.00
18 TMP 1,1-Dichloroethene	1.641	1.826	-11.3	101	0.00
19 TMP trans-1,2-Dichloroethene	1.625	1.782	-9.7	99	0.00
20 TMP Methylene chloride	1.604	1.782	-11.1	92	-0.03
21 TMP t-Butyl alcohol (TBA)	2.544	2.857	-12.3	100	0.00
22 TMP 3-Chloropropene	2.076	2.570	-23.8	103	0.00
23 TMP CFC-113	3.525	4.216	-19.6	104	0.00
24 TMP Carbon disulfide	5.324	6.007	-12.8	101	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.894	-12.3	103	0.00
26 TMP Vinyl acetate	3.863	3.901	-1.0	91	0.00
27 TMP 1,1-Dichloroethane	3.597	4.060	-12.9	101	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.892	-6.7	100	0.00
29 TMP Hexane	2.181	2.504	-14.8	103	0.00
30 TMP Chloroform	4.186	4.511	-7.8	98	0.00
31 TMP Ethyl acetate	3.859	4.215	-9.2	99	0.00
32 TMP Tetrahydrofuran	1.822	2.056	-12.8	101	0.00
33 TMP 2-Butanone (MEK)	0.597	0.629	-5.4	98	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.835	3.021	-6.6	100	0.00
35 TMP 1,1,1-Trichloroethane	3.417	3.735	-9.3	97	0.00
36 TMP Carbon tetrachloride	3.530	3.957	-12.1	99	0.00
37 TMP Benzene	5.604	5.986	-6.8	100	0.00
38 TMP Cyclohexane	1.400	1.540	-10.0	99	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
40 TMP 1,2-Dichloropropane	0.619	0.680	-9.9	102	0.00
41 TMP 1,4-Dioxane	0.233	0.281	-20.6	112	0.00
42 TMP 2,2,4-Trimethylpentane	1.831	2.020	-10.3	100	0.00
43 TMP Methyl methacrylate	0.534	0.553	-3.6	96	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\07-25-23\  
 Data File : 072533.D  
 Acq On : 26 Jul 2023 9:12 am  
 Operator : bat  
 Sample : 2.5 ppbv T015 SCV 69-158-a  
 Misc : T6  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Jul 27 16:58:42 2023  
 Quant Method : V:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.703	-7.2	99	0.00
45 TMP Bromodichloromethane	1.004	1.058	-5.4	94	0.00
46 TMP Trichloroethene	0.642	0.673	-4.8	98	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.729	-8.6	97	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.048	-17.1	131	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.675	-11.4	101	0.00
50 TMP Toluene	0.761	0.813	-6.8	99	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.617	-6.6	98	0.00
52 TMP 2-Hexanone	0.834	0.986	-18.2	104	0.00
53 TMP Tetrachloroethene	0.450	0.507	-12.7	100	0.00
54 TMP Dibromochloromethane	0.923	1.052	-14.0	102	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.957	-5.0	97	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
57 TMP Chlorobenzene	1.069	1.114	-4.2	98	-0.02
58 TMP Ethylbenzene	1.800	1.825	-1.4	97	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.580	-4.4	100	0.00
60 TMP Nonane	0.879	0.921	-4.8	98	0.00
61 TMP Isopropylbenzene	1.553	1.536	1.1	90	0.00
62 TMP 2-Chlorotoluene	0.402	0.422	-5.0	94	0.00
63 TMP Propylbenzene	3.242	3.465	-6.9	100	0.00
64 TMP 4-Ethyltoluene	1.485	1.633	-10.0	98	0.00
65 TMP m,p-Xylene	0.607	0.613	-1.0	98	0.00
66 TMP o-Xylene	0.554	0.585	-5.6	98	0.00
67 TMP Styrene	0.767	0.803	-4.7	96	0.00
68 TMP Bromoform	0.895	1.108	-23.8	115	0.00
69 S 4-Bromofluorobenzene	0.741	0.725	2.2	101	0.00
70 TMP Benzyl chloride	0.931	1.104	-18.6	108	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.498	-13.1	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.301	-11.8	97	0.00
73 TMP 1,3-Dichlorobenzene	0.972	1.079	-11.0	102	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.998	-10.9	103	0.00
75 TMP 1,2-Dichlorobenzene	0.936	1.033	-10.4	102	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.635	-7.6	107	0.00
77 TMP Naphthalene	1.053	1.114	-5.8	106	0.00
78 TMP Hexachlorobutadiene	0.831	0.876	-5.4	99	0.00

(#) = Out of Range

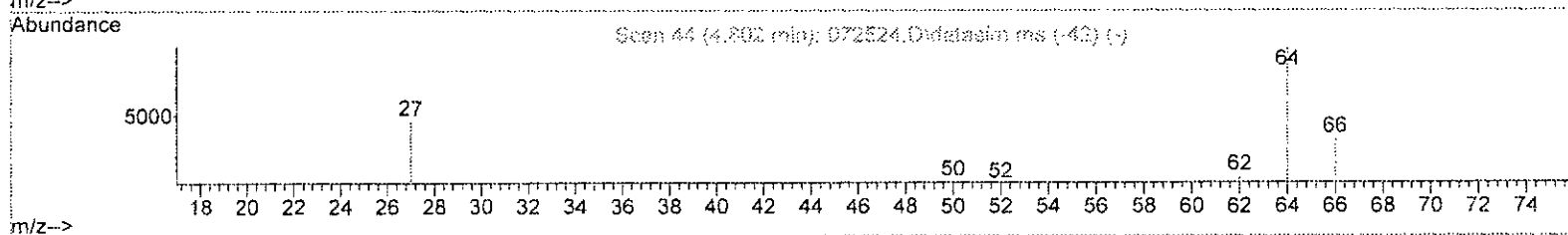
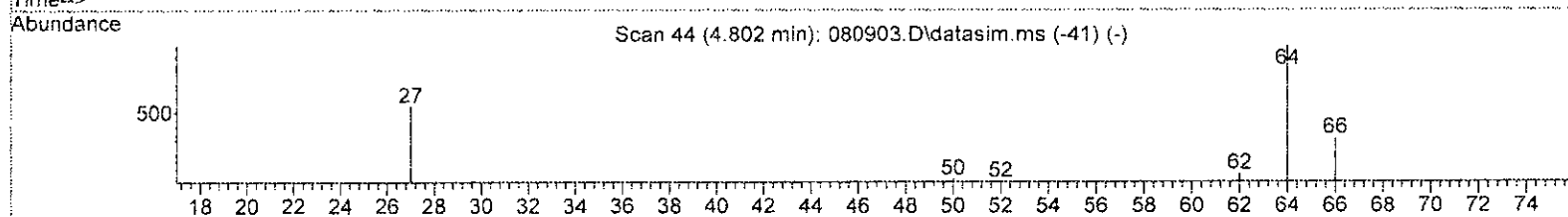
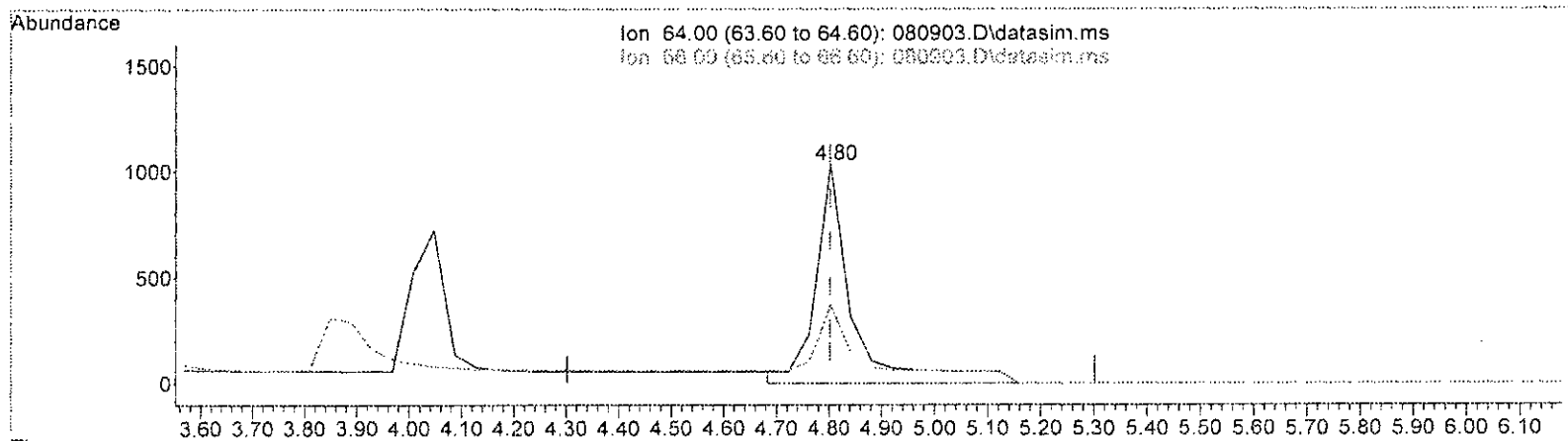
SPCC's out = 0 CCC's out = 0

**EPA TO-15  
CCV Summaries**

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

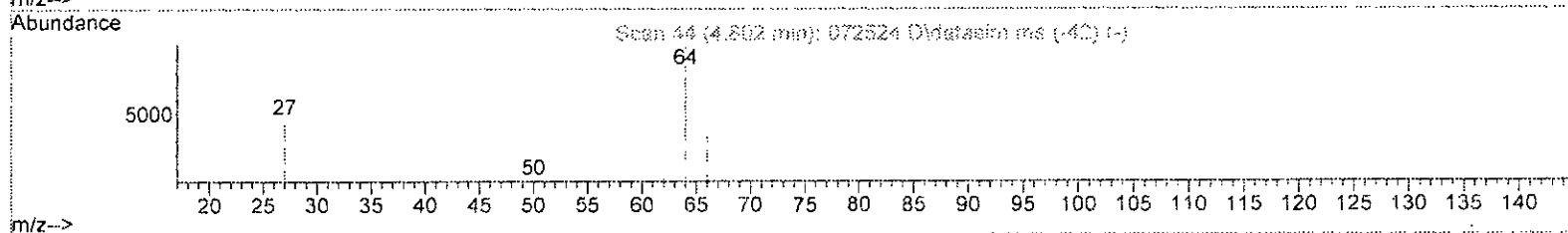
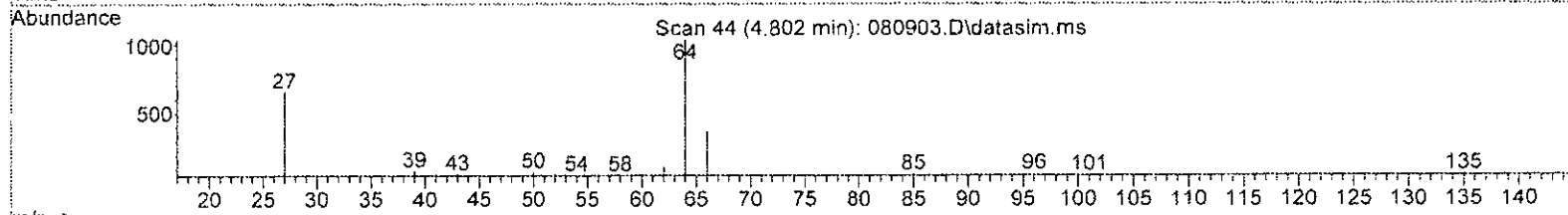
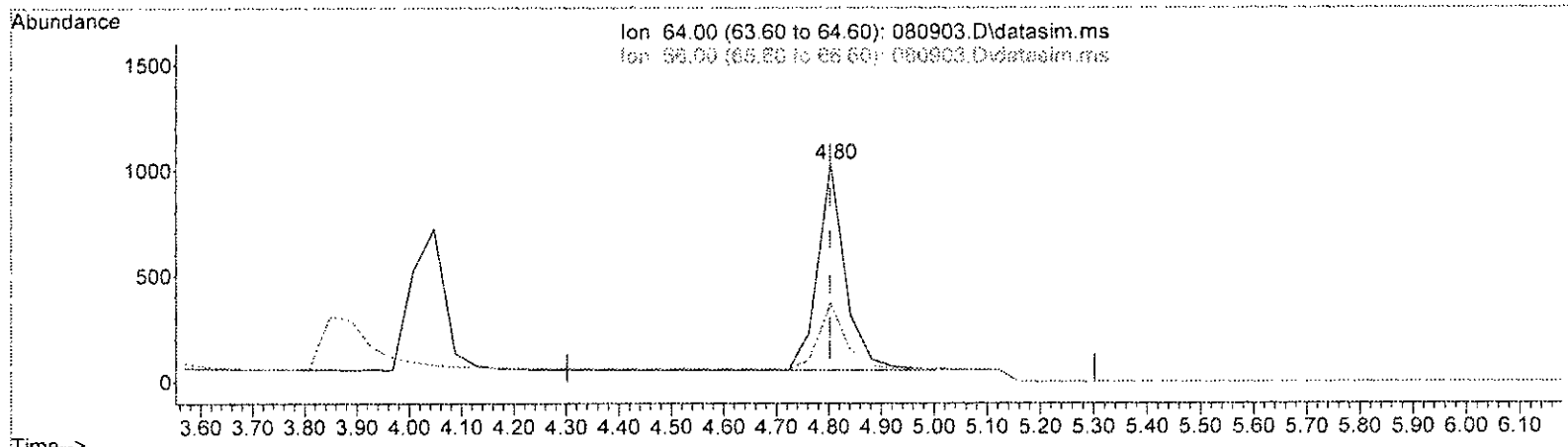
(10) Chloroethane (TMP)			
4.802min (+ 0.000)		3.343 ppbv	
response	4789		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	35.69	
0.00	0.00	0.00	
0.00	0.00	0.00	

MD  
 8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

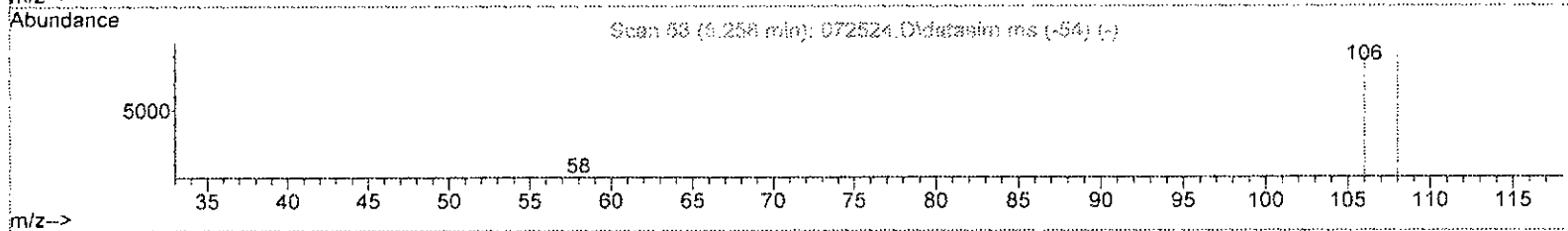
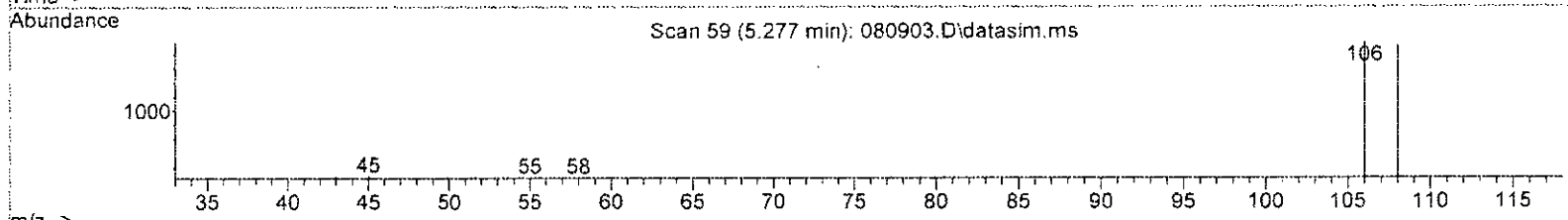
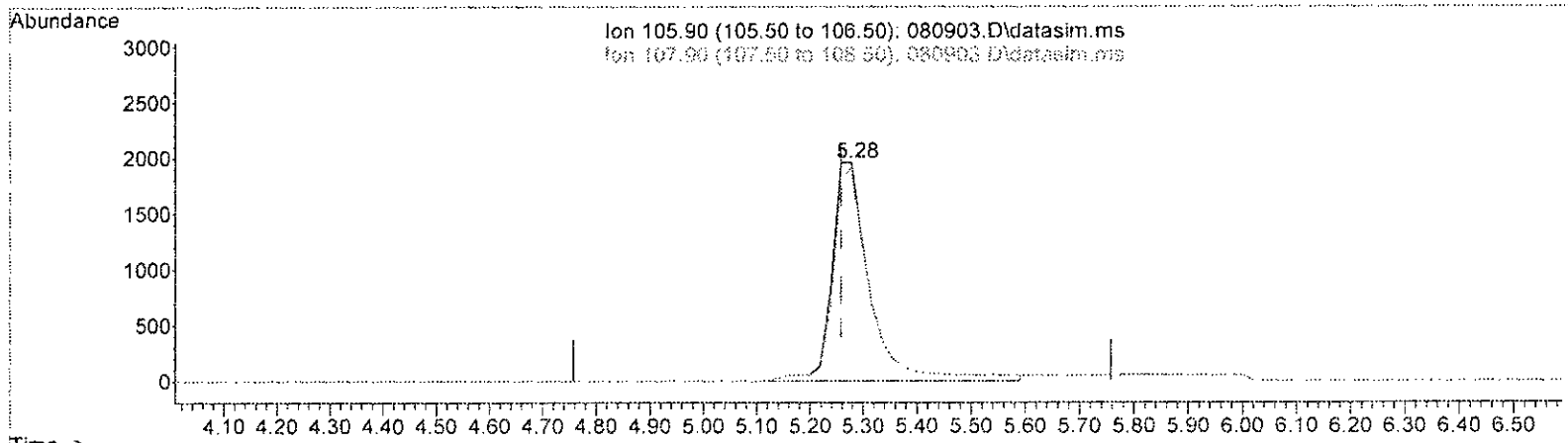
(10) Chloroethane (TMP)			
4.802min (+ 0.000) 2.480 ppbv m			
response	3553		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	35.69	
0.00	0.00	0.00	
0.00	0.00	0.00	

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 080903.D\data.ms

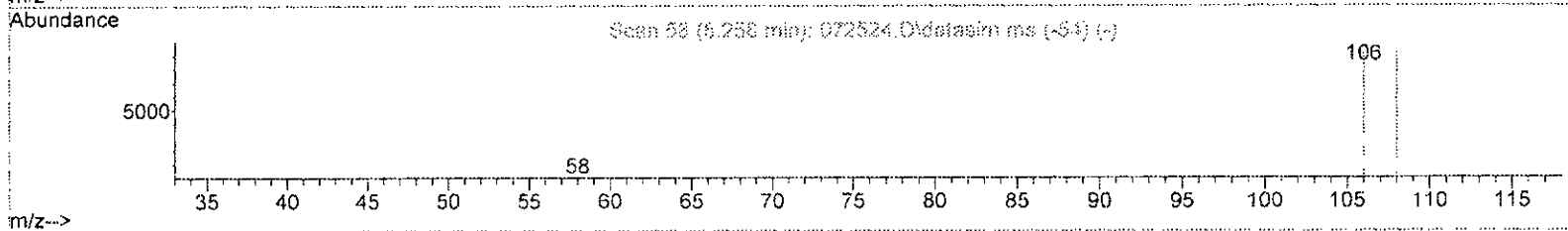
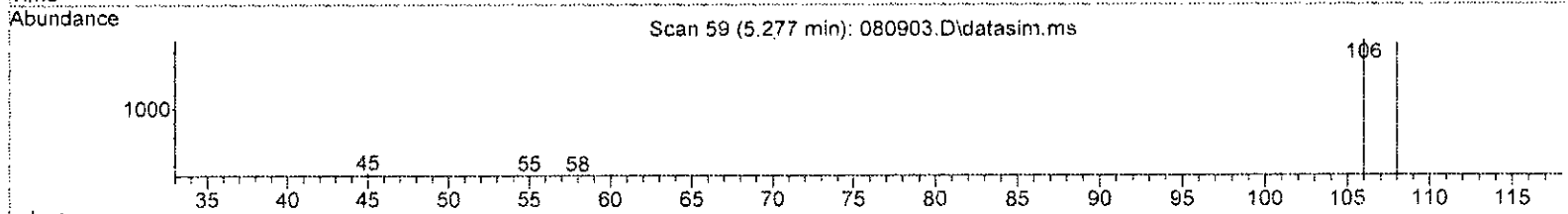
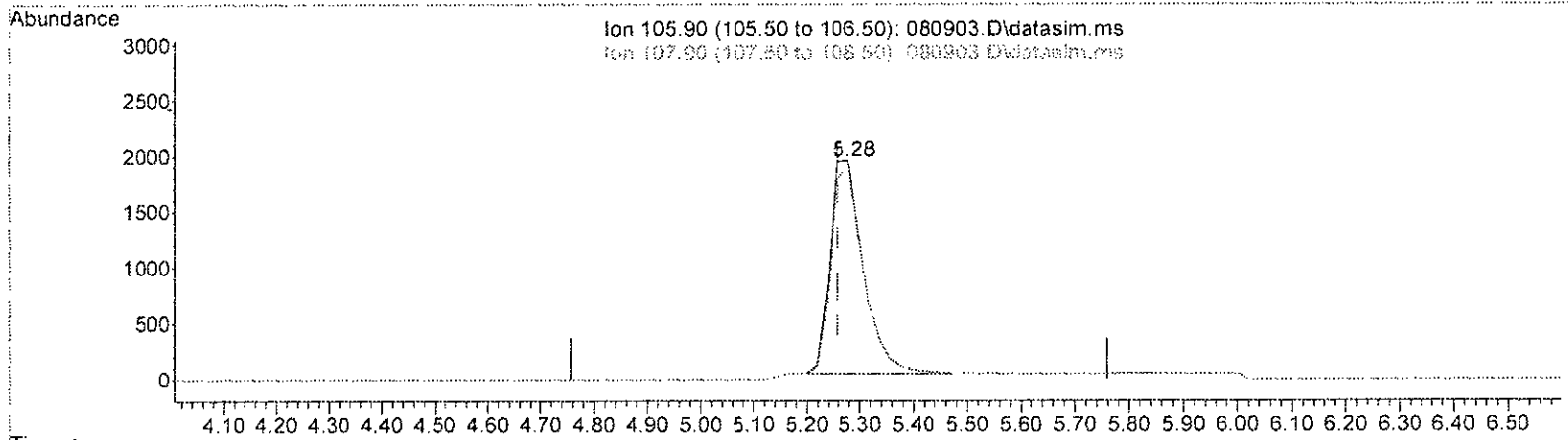
(11) Vinyl bromide (TMP)		
5.277min (+ 0.019)	2.952 ppbv	
response	10584	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	96.58
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

(11) Vinyl bromide (TMP)

5.277min (+ 0.019) 2.336 ppbv m

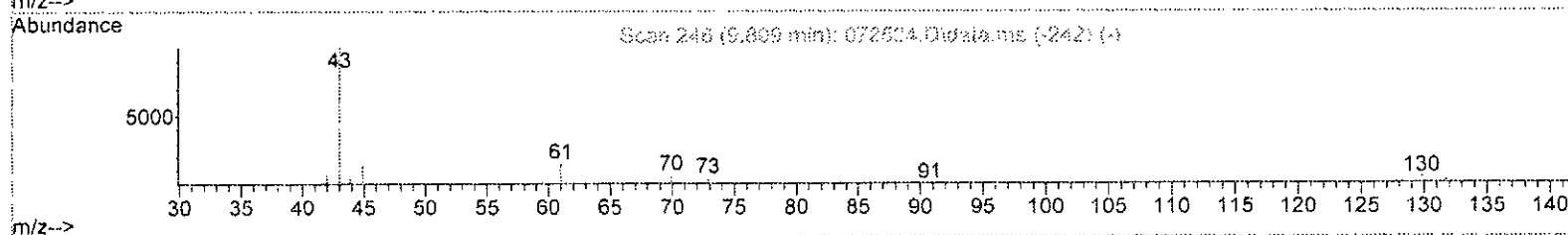
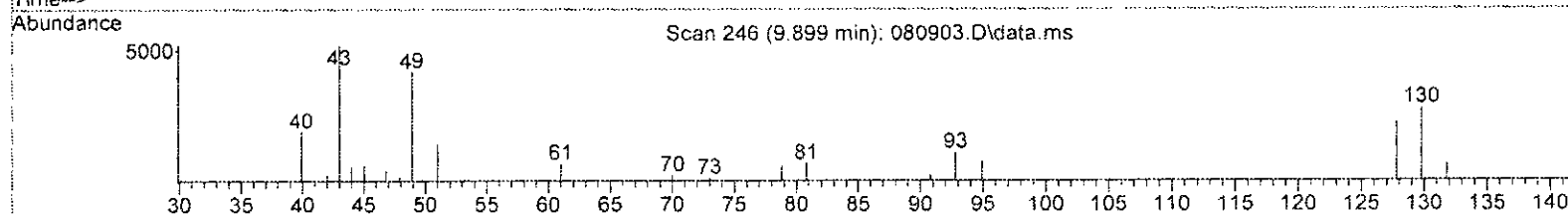
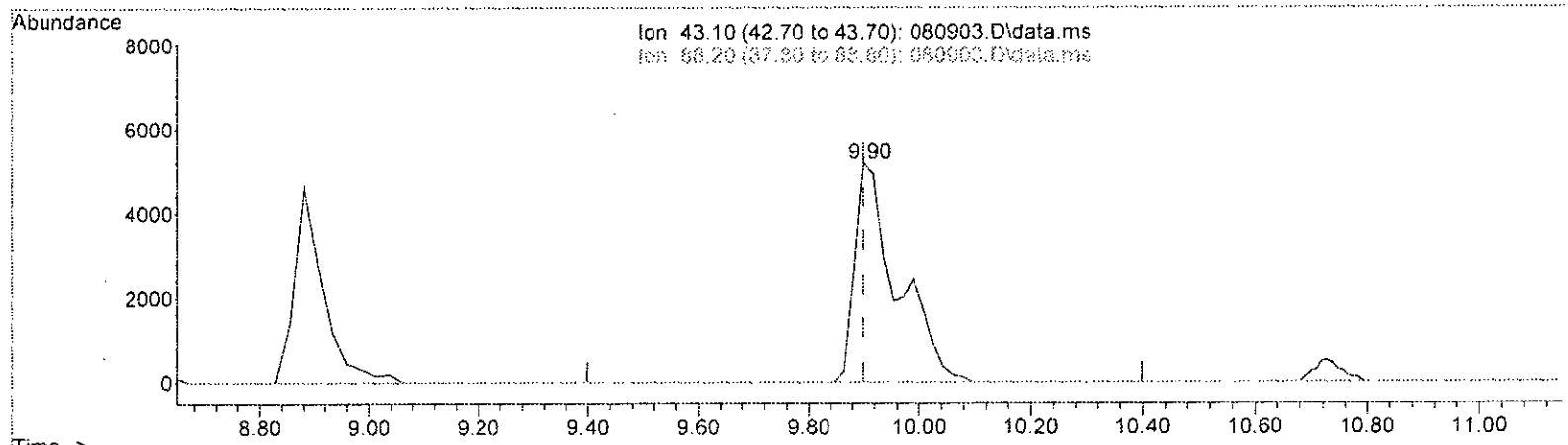
response	8375	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	122.05#
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

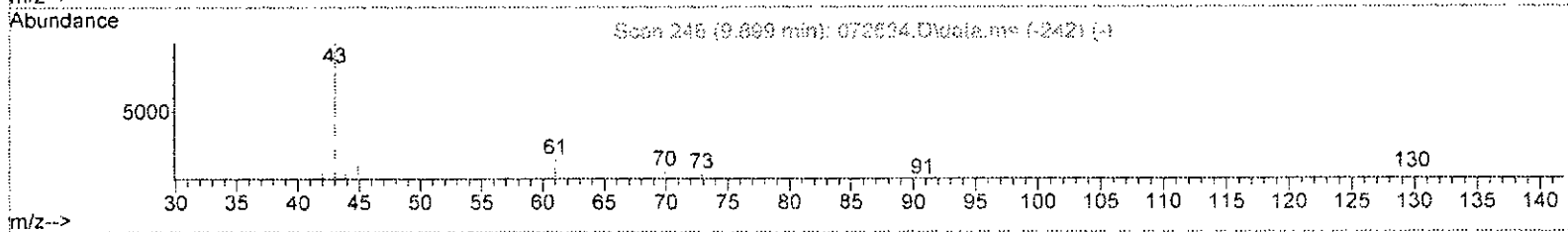
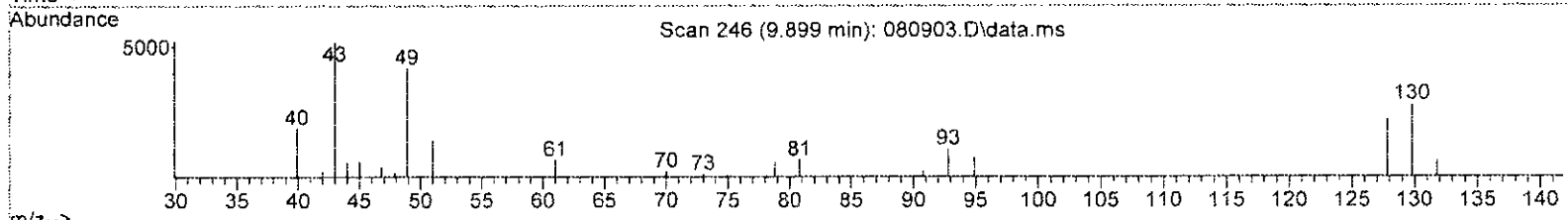
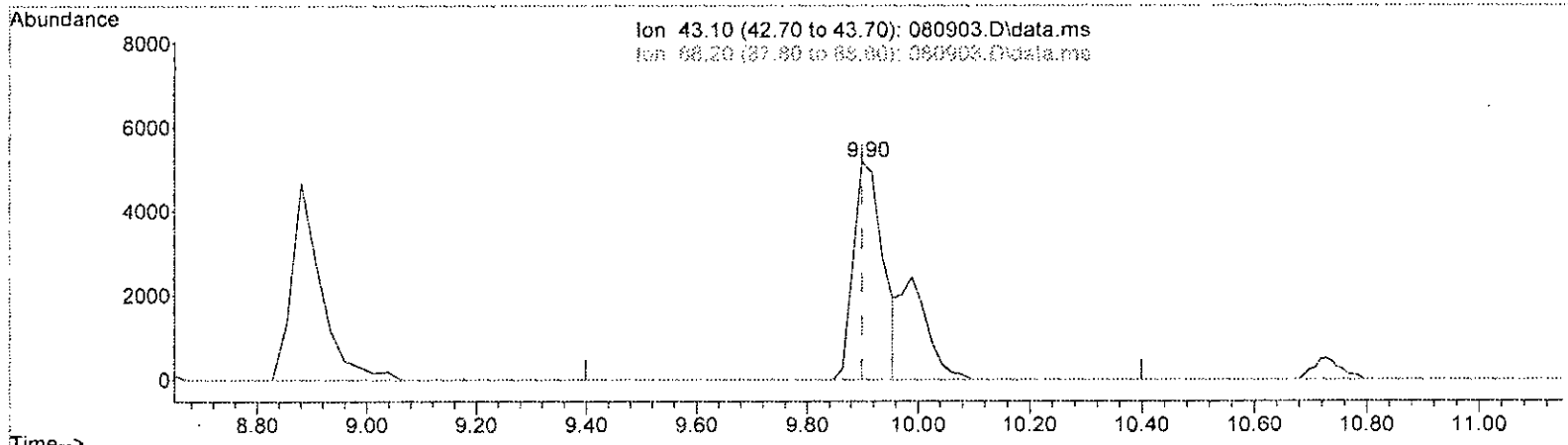
(31) Ethyl acetate (TMP)		
9.899min (+ 0.000)	3.421 ppbv	
response	27435	
Ion	Exp%	Act%
43.10	100.00	100.00
88.20	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

(31) Ethyl acetate (TMP)		
9.899min (+ 0.000)	2.379 ppbv m	
response	19077	
Ion	Exp%	Act%
43.10	100.00	100.00
88.20	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	20781	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	81395	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	73324	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	53720	9.887	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.90%
Target Compounds						
					Qvalue	
2) Propene	3.41	41	7432	2.929	ppbv	98
3) Dichlorodifluoromethane	3.49	85	23064	2.257	ppbv	100
4) Chloromethane	3.73	50	8046	2.260	ppbv	79
5) F-114	3.88	85	22400	2.514	ppbv	97
6] Vinyl chloride	4.05	62	9402	2.336	ppbv	95
7] 1,3-Butadiene	4.21	54	5896	2.284	ppbv #	93
8) Butane	4.32	43	11380	2.205	ppbv	88
9) Bromomethane	4.60	94	8791	2.472	ppbv	99
10] Chloroethane	4.80	64	3553m	2.480	ppbv	
11] Vinyl bromide	5.28	106	8375m	2.336	ppbv	
12) Ethanol	4.92	45	3245	2.873	ppbv	64
13] Acrolein	5.39	56	3259	2.152	ppbv	83
14) Pentane	6.25	43	13352	2.263	ppbv	99
15) Trichlorofluoromethane	5.82	101	26960	2.705	ppbv	93
16) Acetone	5.55	58	3285	2.358	ppbv	98
17) 2-Propanol	5.78	45	15620	2.565	ppbv #	97
18] 1,1-Dichloroethene	6.65	96	8036	2.356	ppbv	99
19] trans-1,2-Dichloroethene	8.07	96	7848	2.324	ppbv	90
20) Methylene chloride	6.78	84	7829	2.349	ppbv	90
21) t-Butyl alcohol (TBA)	6.57	59	13041	2.467	ppbv #	66
22) 3-Chloropropene	6.94	41	10438	2.420	ppbv	99
23) CFC-113	7.15	101	19285	2.633	ppbv	94
24) Carbon disulfide	7.25	76	26901	2.432	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	16273	2.259	ppbv	99
26) Vinyl acetate	8.51	43	18901	2.354	ppbv	100
27] 1,1-Dichloroethane	8.33	63	18157	2.429	ppbv	95
28] cis-1,2-Dichloroethene	9.62	96	8085	2.193	ppbv	98
29) Hexane	9.99	57	9258	2.042	ppbv	83
30] Chloroform	10.07	83	20767	2.387	ppbv	98
31) Ethyl acetate	9.90	43	19077m	2.379	ppbv	
32) Tetrahydrofuran	10.73	42	8547	2.257	ppbv	91
33) 2-Butanone (MEK)	8.88	72	2753	2.218	ppbv #	65
34] 1,2-Dichloroethane (EDC)	11.31	62	14315	2.430	ppbv	98
35] 1,1,1-Trichloroethane	11.79	97	17880	2.518	ppbv	95
36] Carbon tetrachloride	12.83	117	18084	2.465	ppbv	97
37] Benzene	12.58	78	26033	2.235	ppbv	99
38) Cyclohexane	13.05	84	5814	1.998	ppbv	90
40] 1,2-Dichloropropane	13.77	63	12918	2.564	ppbv	98

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

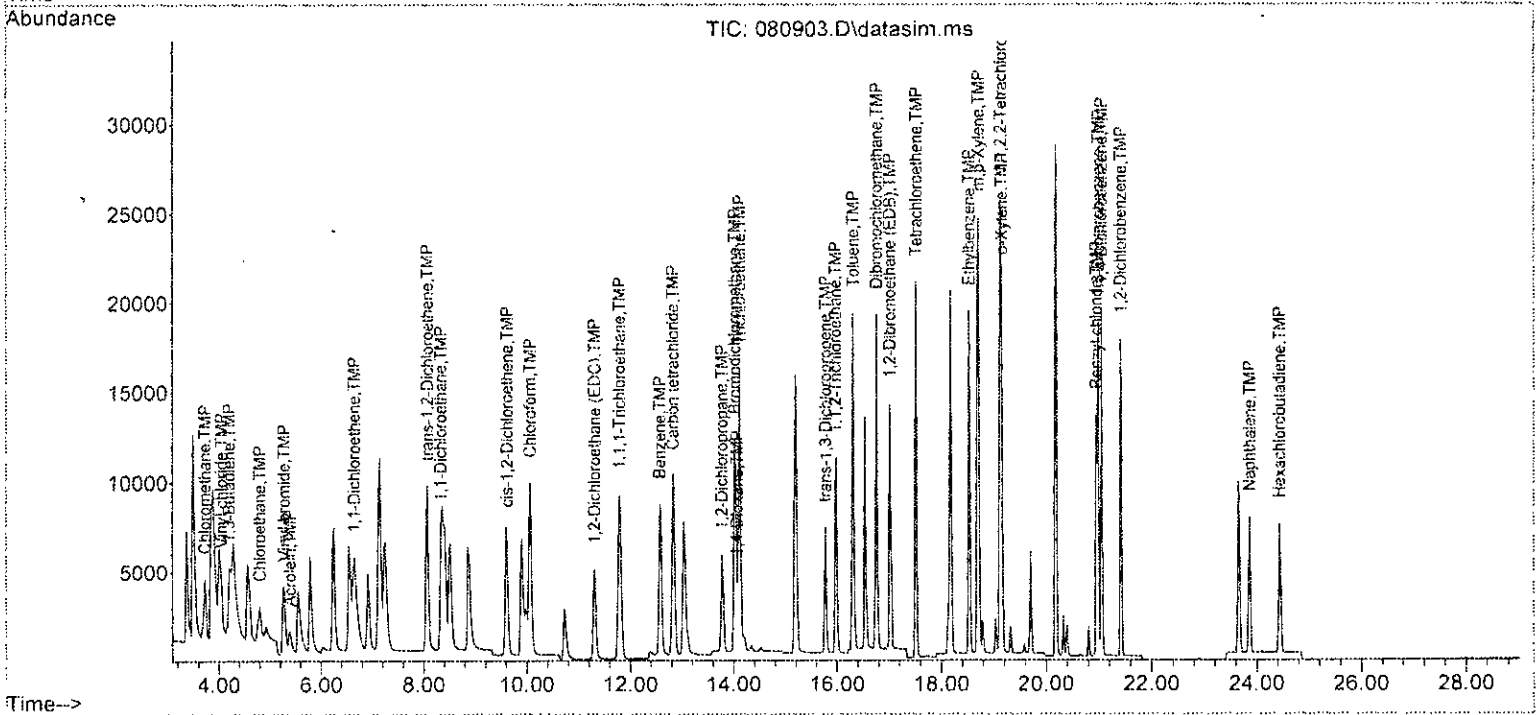
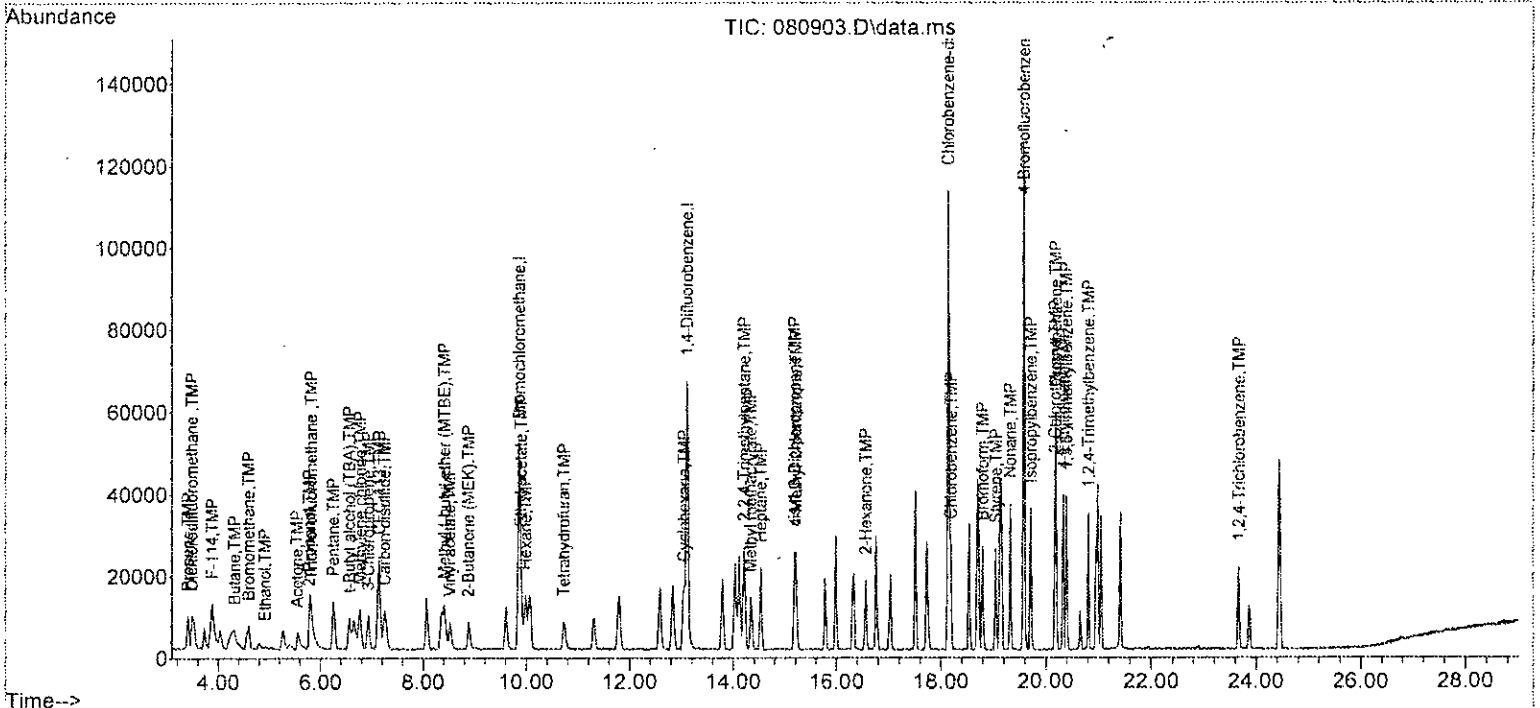
Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	4130	2.174	ppbv	99
42) 2,2,4-Trimethylpentane	14.21	57	36496	2.449	ppbv #	88
43) Methyl methacrylate	14.33	41	10911	2.508	ppbv	95
44) Heptane	14.53	43	11763	2.201	ppbv	97
45] Bromodichloromethane	14.02	83	21331	2.610	ppbv	99
46] Trichloroethene	14.12	95	12817	2.452	ppbv	96
47) cis-1,3-Dichloropropene	15.18	75	13710	2.511	ppbv	98
48) 4-Methyl-2-pentanone	15.21	100	821	2.486	ppbv #	39
49] trans-1,3-Dichloropropene	15.78	75	13184	2.673	ppbv	97
50] Toluene	16.31	92	14899	2.407	ppbv	92
51] 1,1,2-Trichloroethane	15.98	83	13086	2.776	ppbv	98
52) 2-Hexanone	16.56	43	17495	2.577	ppbv	92
53] Tetrachloroethene	17.52	164	9944	2.713	ppbv	91
54] Dibromochloromethane	16.76	129	19110	2.543	ppbv	93
55] 1,2-Dibromoethane (EDB)	17.01	107	18628	2.511	ppbv	82
57) Chlorobenzene	18.19	112	18748	2.393	ppbv	97
58] Ethylbenzene	18.53	91	28103	2.129	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	27167	2.448	ppbv	93
60) Nonane	19.32	43	14815	2.300	ppbv	93
61) Isopropylbenzene	19.72	105	26941	2.366	ppbv	100
62) 2-Chlorotoluene	20.17	126	6727	2.282	ppbv	99
63) Propylbenzene	20.19	91	54383	2.288	ppbv	96
64) 4-Ethyltoluene	20.33	105	24986	2.294	ppbv	99
65] m,p-Xylene	18.70	106	19385	4.354	ppbv	100
66] o-Xylene	19.15	106	9159	2.256	ppbv	94
67) Styrene	19.05	104	12555	2.232	ppbv	93
68) Bromoform	18.80	173	14259	2.174	ppbv	98
70] Benzyl chloride	20.95	91	20593	3.016	ppbv	90
71) 1,3,5-Trimethylbenzene	20.39	105	23118	2.380	ppbv	98
72) 1,2,4-Trimethylbenzene	20.81	105	19654	2.303	ppbv	95
73] 1,3-Dichlorobenzene	20.99	146	17723	2.488	ppbv	91
74] 1,4-Dichlorobenzene	21.05	146	16240	2.461	ppbv	91
75] 1,2-Dichlorobenzene	21.41	146	18005	2.624	ppbv	94
76) 1,2,4-Trichlorobenzene	23.67	180	9475	2.189	ppbv	91
77] Naphthalene	23.86	128	15095	1.913	ppbv	100
78] Hexachlorobutadiene	24.44	225	15592	2.560	ppbv	98

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	110	0.00
2 TMP Propene	2.500	2.929	-17.2	115	0.00
3 TMP Dichlorodifluoromethane	2.500	2.257	9.7	85	0.00
4 TMP Chloromethane	2.500	2.260	9.6	95	0.04
5 TMP F-114	2.500	2.514	-0.6	90	0.00
6 TMP Vinyl chloride	2.500	2.336	6.6	89	0.04
7 TMP 1,3-Butadiene	2.500	2.284	8.6	90	0.00
8 TMP Butane	2.500	2.205	11.8	86	0.04
9 TMP Bromomethane	2.500	2.472	1.1	97	0.04
10 TMP Chloroethane	2.500	2.480	0.8	97	0.00
11 TMP Vinyl bromide	2.500	2.336	6.6	90	0.02
12 TMP Ethanol	2.500	2.873	-14.9	105	0.00
13 TMP Acrolein	2.500	2.152	13.9	89	0.02
14 TMP Pentane	2.500	2.263	9.5	89	0.00
15 TMP Trichlorofluoromethane	2.500	2.705	-8.2	99	0.02
16 TMP Acetone	2.500	2.358	5.7	99	0.00
17 TMP 2-Propanol	2.500	2.565	-2.6	114	0.00
18 TMP 1,1-Dichloroethene	2.500	2.356	5.8	93	0.00
19 TMP trans-1,2-Dichloroethene	2.500	2.324	7.0	92	0.00
20 TMP Methylene chloride	2.500	2.349	6.0	85	0.00
21 TMP t-Butyl alcohol (TBA)	2.500	2.467	1.3	96	0.00
22 TMP 3-Chloropropene	2.500	2.420	3.2	88	0.00
23 TMP CFC-113	2.500	2.633	-5.3	100	0.00
24 TMP Carbon disulfide	2.500	2.432	2.7	95	0.00
25 TMP Methyl t-butyl ether (MTBE)	2.500	2.259	9.6	90	0.00
26 TMP Vinyl acetate	2.500	2.354	5.8	93	0.00
27 TMP 1,1-Dichloroethane	2.500	2.429	2.8	95	0.00
28 TMP cis-1,2-Dichloroethene	2.500	2.193	12.3	89	0.02
29 TMP Hexane	2.500	2.042	18.3	80	0.00
30 TMP Chloroform	2.500	2.387	4.5	94	0.00
31 TMP Ethyl acetate	2.500	2.379	4.8	94	0.00
32 TMP Tetrahydrofuran	2.500	2.257	9.7	88	0.01
33 TMP 2-Butanone (MEK)	2.500	2.218	11.3	90	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.500	2.430	2.8	99	0.01
35 TMP 1,1,1-Trichloroethane	2.500	2.518	-0.7	98	0.00
36 TMP Carbon tetrachloride	2.500	2.465	1.4	95	0.00
37 TMP Benzene	2.500	2.235	10.6	91	0.00
38 TMP Cyclohexane	2.500	1.998	20.1	79	0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	101	0.00
40 TMP 1,2-Dichloropropane	2.500	2.564	-2.6	95	0.00
41 TMP 1,4-Dioxane	2.500	2.174	13.0	81	0.00
42 TMP 2,2,4-Trimethylpentane	2.500	2.449	2.0	89	0.00
43 TMP Methyl methacrylate	2.500	2.508	-0.3	93	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.201	12.0	81	0.00
45 TMP Bromodichloromethane	2.500	2.610	-4.4	93	0.00
46 TMP Trichloroethene	2.500	2.452	1.9	92	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.511	-0.4	90	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.486	0.6	110	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.673	-6.9	97	0.00
50 TMP Toluene	2.500	2.407	3.7	90	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.776	-11.0	102	0.00
52 TMP 2-Hexanone	2.500	2.577	-3.1	91	0.00
53 TMP Tetrachloroethene	2.500	2.713	-8.5	97	0.00
54 TMP Dibromochloromethane	2.500	2.543	-1.7	92	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.511	-0.4	93	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	107	0.00
57 TMP Chlorobenzene	2.500	2.393	4.3	91	0.00
58 TMP Ethylbenzene	2.500	2.129	14.8	82	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.448	2.1	95	0.00
60 TMP Nonane	2.500	2.300	8.0	87	0.00
61 TMP Isopropylbenzene	2.500	2.366	5.4	87	0.00
62 TMP 2-Chlorotoluene	2.500	2.282	8.7	82	0.00
63 TMP Propylbenzene	2.500	2.288	8.5	87	0.00
64 TMP 4-Ethyltoluene	2.500	2.294	8.2	83	0.00
65 TMP m,p-Xylene	5.000	4.354	12.9	86	0.00
66 TMP o-Xylene	2.500	2.256	9.8	85	0.00
67 TMP Styrene	2.500	2.232	10.7	83	0.00
68 TMP Bromoform	2.500	2.174	13.0	82	0.00
69 S 4-Bromofluorobenzene	10.000	9.887	1.1	104	0.00
70 TMP Benzyl chloride	2.500	3.016	-20.6	112	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.380	4.8	85	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	2.303	7.9	81	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.488	0.5	92	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.461	1.6	92	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.624	-5.0	98	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.189	12.4	89	0.00
77 TMP Naphthalene	2.500	1.913	23.5	80	0.00
78 TMP Hexachlorobutadiene	2.500	2.560	-2.4	97	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	110	0.00
2 TMP Propene	1.221	1.431	-17.2	115	0.00
3 TMP Dichlorodifluoromethane	4.917	4.439	9.7	85	0.00
4 TMP Chloromethane	1.713	1.549	9.6	95	0.04
5 TMP F-114	4.288	4.312	-0.6	90	0.00
6 TMP Vinyl chloride	1.937	1.810	6.6	89	0.04
7 TMP 1,3-Butadiene	1.242	1.135	8.6	90	0.00
8 TMP Butane	2.483	2.190	11.8	86	0.04
9 TMP Bromomethane	1.711	1.692	1.1	97	0.04
10 TMP Chloroethane	0.689	0.684	0.7	97	0.00
11 TMP Vinyl bromide	1.725	1.612	6.6	90	0.02
12 TMP Ethanol	0.543	0.625	-15.1	105	0.00
13 TMP Acrolein	0.729	0.627	14.0	89	0.02
14 TMP Pentane	2.839	2.570	9.5	89	0.00
15 TMP Trichlorofluoromethane	4.796	5.189	-8.2	99	0.02
16 TMP Acetone	0.670	0.632	5.7	99	0.00
17 TMP 2-Propanol	2.930	3.007	-2.6	114	0.00
18 TMP 1,1-Dichloroethene	1.641	1.547	5.7	93	0.00
19 TMP trans-1,2-Dichloroethene	1.625	1.511	7.0	92	0.00
20 TMP Methylene chloride	1.604	1.507	6.0	85	0.00
21 TMP t-Butyl alcohol (TBA)	2.544	2.510	1.3	96	0.00
22 TMP 3-Chloropropene	2.076	2.009	3.2	88	0.00
23 TMP CFC-113	3.525	3.712	-5.3	100	0.00
24 TMP Carbon disulfide	5.324	5.178	2.7	95	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.132	9.7	90	0.00
26 TMP Vinyl acetate	3.863	3.638	5.8	93	0.00
27 TMP 1,1-Dichloroethane	3.597	3.495	2.8	95	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.556	12.3	89	0.02
29 TMP Hexane	2.181	1.782	18.3	80	0.00
30 TMP Chloroform	4.186	3.997	4.5	94	0.00
31 TMP Ethyl acetate	3.859	3.672	4.8	94	0.00
32 TMP Tetrahydrofuran	1.822	1.645	9.7	88	0.01
33 TMP 2-Butanone (MEK)	0.597	0.530	11.2	90	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.755	2.8	99	0.01
35 TMP 1,1,1-Trichloroethane	3.417	3.442	-0.7	98	0.00
36 TMP Carbon tetrachloride	3.530	3.481	1.4	95	0.00
37 TMP Benzene	5.604	5.011	10.6	91	0.00
38 TMP Cyclohexane	1.400	1.119	20.1	79	0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
40 TMP 1,2-Dichloropropane	0.619	0.635	-2.6	95	0.00
41 TMP 1,4-Dioxane	0.233	0.203	12.9	81	0.00
42 TMP 2,2,4-Trimethylpentane	1.831	1.794	2.0	89	0.00
43 TMP Methyl methacrylate	0.534	0.536	-0.4	93	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.578	11.9	81	0.00
45 TMP Bromodichloromethane	1.004	1.048	-4.4	93	0.00
46 TMP Trichloroethene	0.642	0.630	1.9	92	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.674	-0.4	90	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.040	2.4	110	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.648	-6.9	97	0.00
50 TMP Toluene	0.761	0.732	3.8	90	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.643	-11.1	102	0.00
52 TMP 2-Hexanone	0.834	0.860	-3.1	91	0.00
53 TMP Tetrachloroethene	0.450	0.489	-8.7	97	0.00
54 TMP Dibromochloromethane	0.923	0.939	-1.7	92	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.915	-0.4	93	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
57 TMP Chlorobenzene	1.069	1.023	4.3	91	0.00
58 TMP Ethylbenzene	1.800	1.533	14.8	82	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.482	2.1	95	0.00
60 TMP Nonane	0.879	0.808	8.1	87	0.00
61 TMP Isopropylbenzene	1.553	1.470	5.3	87	0.00
62 TMP 2-Chlorotoluene	0.402	0.367	8.7	82	0.00
63 TMP Propylbenzene	3.242	2.967	8.5	87	0.00
64 TMP 4-Ethyltoluene	1.485	1.363	8.2	83	0.00
65 TMP m,p-Xylene	0.607	0.529	12.9	86	0.00
66 TMP o-Xylene	0.554	0.500	9.7	85	0.00
67 TMP Styrene	0.767	0.685	10.7	83	0.00
68 TMP Bromoform	0.895	0.778	13.1	82	0.00
69 S 4-Bromofluorobenzene	0.741	0.733	1.1	104	0.00
70 TMP Benzyl chloride	0.931	1.123	-20.6	112	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.261	4.8	85	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.072	7.9	81	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.967	0.5	92	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.886	1.6	92	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.982	-4.9	98	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.517	12.4	89	0.00
77 TMP Naphthalene	1.053	0.823	21.8	80	0.00
78 TMP Hexachlorobutadiene	0.831	0.851	-2.4	97	0.00

(#) = Out of Range

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

**EPA TO-15**  
**Quality Assurance Data**



Spike Recovery and RPD Summary Report - WATER

Method : D:\GCMS7 Methods\0725T015ss7.M (RTE Integrator)  
 Title : TO-15 SS method  
 Last Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration

Non-Spiked Sample: 080911.D

Spike Sample	Spike Duplicate Sample
File ID : 080903.D	080903.D
Sample : 03-1809 lcs/ 2.5 ppbv 69-157a ppbv 69-157a	03-1809 lcs/ 2.5
Acq Time: 9 Aug 2023 11:02 am	9 Aug 2023 11:02 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Propene	0.0	3	3	3	117	117	0	20	70-130
Dichlorodifluorometh	0.0	3	2	2	90	90	0	20	70-130
Chloromethane	0.0	3	2	2	89	89	0	20	70-130
F-114	0.0	3	3	3	101	101	0	20	70-130
Vinyl chloride	0.0	3	2	2	93	93	0	20	70-130
1,3-Butadiene	0.0	3	2	2	91	91	0	20	70-130
Butane	0.0	3	2	2	88	88	0	20	70-130
Bromomethane	0.0	3	2	2	99	99	0	20	70-130
Chloroethane	0.0	3	2	2	99	99	0	20	70-130
Vinyl bromide	0.0	3	2	2	93	93	0	20	70-130
Ethanol	0.0	3	3	3	115	115	0	20	70-130
Acrolein	0.0	3	2	2	86	86	0	20	70-130
Pentane	0.0	3	2	2	91	91	0	20	70-130
Trichlorofluorometha	0.0	3	3	3	108	108	0	20	70-130
Acetone	0.0	3	2	2	94	94	0	20	70-130
2-Propanol	0.0	3	3	3	103	103	0	20	70-130
1,1-Dichloroethene	0.0	3	2	2	94	94	0	20	70-130
trans-1,2-Dichloroet	0.0	3	2	2	92	92	0	20	70-130
Methylene chloride	0.0	3	2	2	94	94	0	20	70-130
t-Butyl alcohol (TBA	0.0	3	2	2	99	99	0	20	70-130
3-Chloropropene	0.0	3	2	2	97	97	0	20	70-130
CFC-113	0.0	3	3	3	105	105	0	20	70-130
Carbon disulfide	0.0	3	2	2	97	97	0	20	70-130
Methyl t-butyl ether	0.0	3	2	2	90	90	0	20	70-130
Vinyl acetate	0.0	3	2	2	94	94	0	20	70-130
1,1-Dichloroethane	0.0	3	2	2	97	97	0	20	70-130
cis-1,2-Dichloroethe	0.0	3	2	2	88	88	0	20	70-130
Hexane	0.0	3	2	2	82	82	0	20	70-130
Chloroform	0.0	3	2	2	95	95	0	20	70-130
Ethyl acetate	0.0	3	2	2	95	95	0	20	70-130
Tetrahydrofuran	0.0	3	2	2	90	90	0	20	70-130
2-Butanone (MEK)	0.0	3	2	2	89	89	0	20	70-130
1,2-Dichloroethane (	0.0	3	2	2	97	97	0	20	70-130
1,1,1-Trichloroethan	0.0	3	3	3	100	100	0	20	70-130
Carbon tetrachloride	0.0	3	2	2	99	99	0	20	70-130
Benzene	0.0	3	2	2	89	89	0	20	70-130

Cyclohexane	0.1	3	2	2	77	77	0	20	70-130
1,2-Dichloropropane	0.0	3	3	3	103	103	0	20	70-130
1,4-Dioxane	0.0	3	2	2	87	87	0	20	70-130
2,2,4-Trimethylpenta	0.0	3	2	2	98	98	0	20	70-130
Methyl methacrylate	0.0	3	3	3	100	100	0	20	70-130
Heptane	0.0	3	2	2	88	88	0	20	70-130
Bromodichloromethane	0.0	3	3	3	104	104	0	20	70-130
Trichloroethene	0.0	3	2	2	98	98	0	20	70-130
cis-1,3-Dichloroprop	0.0	3	3	3	100	100	0	20	70-130
4-Methyl-2-pentanone	0.0	3	2	2	99	99	0	20	70-130
trans-1,3-Dichloropr	0.0	3	3	3	107	107	0	20	70-130
Toluene	0.2	3	2	2	88	88	0	20	70-130
1,1,2-Trichloroethan	0.0	3	3	3	111	111	0	20	70-130
2-Hexanone	0.0	3	3	3	103	103	0	20	70-130
Tetrachloroethene	0.0	3	3	3	107	107	0	20	70-130
Dibromochloromethane	0.0	3	3	3	102	102	0	20	70-130
1,2-Dibromoethane (E	0.0	3	3	3	100	100	0	20	70-130
Chlorobenzene	0.0	3	2	2	96	96	0	20	70-130
Ethylbenzene	0.0	3	2	2	85	85	0	20	70-130
1,1,2,2-Tetrachloroe	0.0	3	2	2	98	98	0	20	70-130
Nonane	0.0	3	2	2	92	92	0	20	70-130
Isopropylbenzene	0.0	3	2	2	95	95	0	20	70-130
2-Chlorotoluene	0.0	3	2	2	91	91	0	20	70-130
Propylbenzene	0.0	3	2	2	92	92	0	20	70-130
4-Ethyltoluene	0.0	3	2	2	92	92	0	20	70-130
m,p-Xylene	0.0	5	4	4	87	87	0	20	70-130
o-Xylene	0.0	3	2	2	90	90	0	20	70-130
Styrene	0.0	3	2	2	89	89	0	20	70-130
Bromoform	0.0	3	2	2	87	87	0	20	70-130
Benzyl chloride	0.0	3	3	3	121	121	0	20	70-130
1,3,5-Trimethylbenze	0.0	3	2	2	95	95	0	20	70-130
1,2,4-Trimethylbenze	0.0	3	2	2	92	92	0	20	70-130
1,3-Dichlorobenzene	0.0	3	2	2	99	99	0	20	70-130
1,4-Dichlorobenzene	0.0	3	2	2	98	98	0	20	70-130
1,2-Dichlorobenzene	0.0	3	3	3	105	105	0	20	70-130
1,2,4-Trichlorobenze	0.0	3	2	2	88	88	0	20	70-130
Naphthalene	0.0	3	2	2	76	76	0	20	70-130
Hexachlorobutadiene	0.0	3	3	3	102	102	0	20	70-130

# - Fails Limit Check

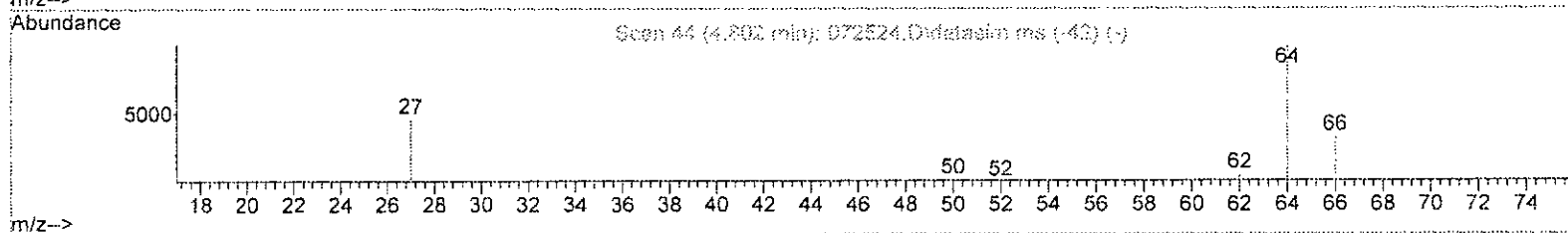
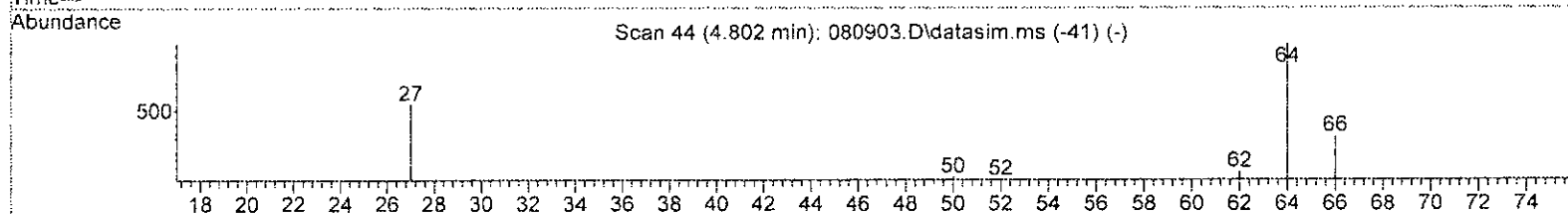
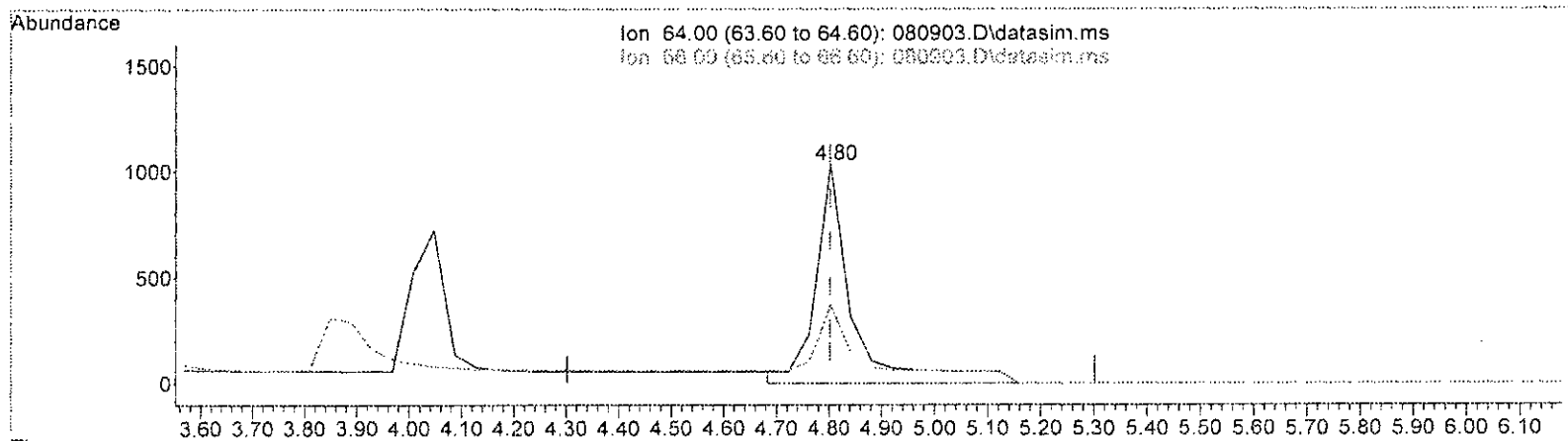
0725TO15ss7.M

Thu Aug 10 10:14:08 2023

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

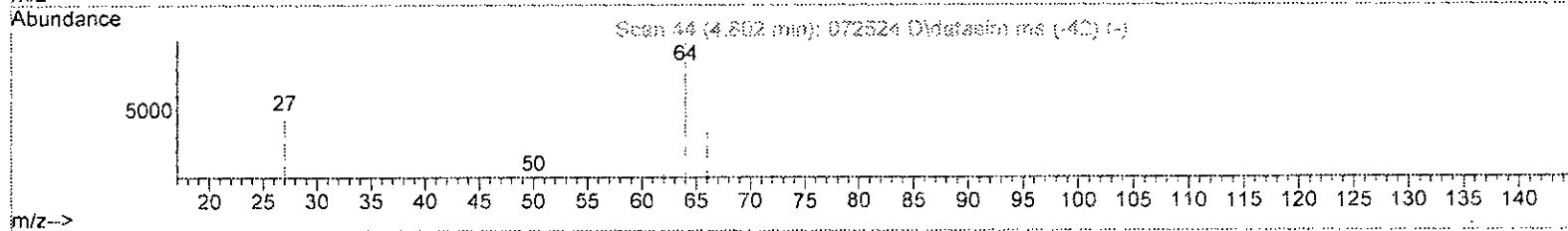
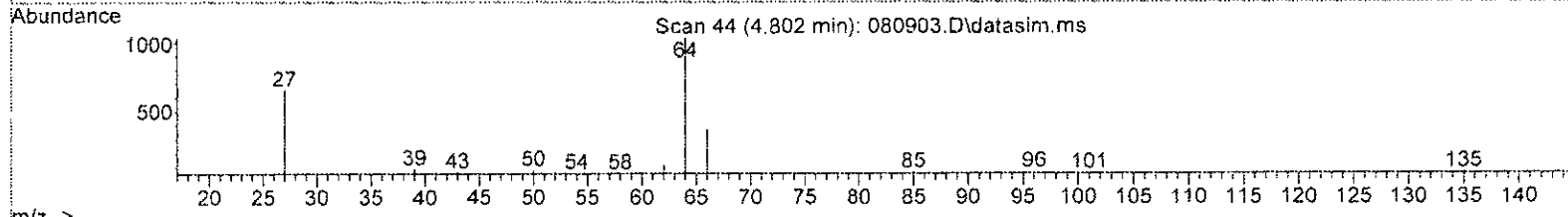
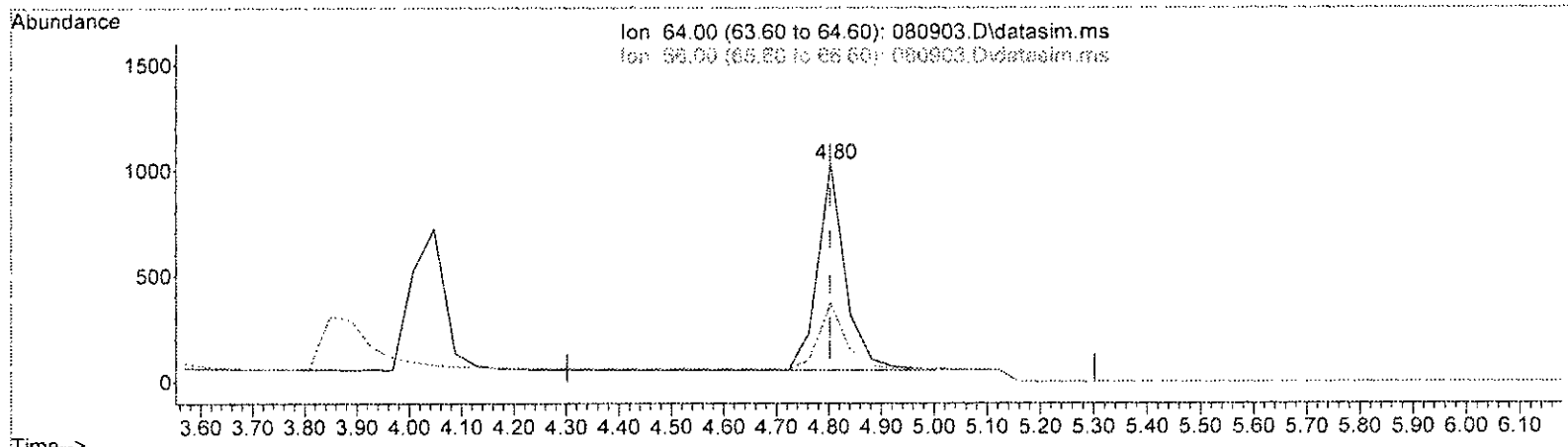
(10) Chloroethane (TMP)			
4.802min (+ 0.000)	3.343 ppbv		
response	4789		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	35.69	
0.00	0.00	0.00	
0.00	0.00	0.00	

MD  
 8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

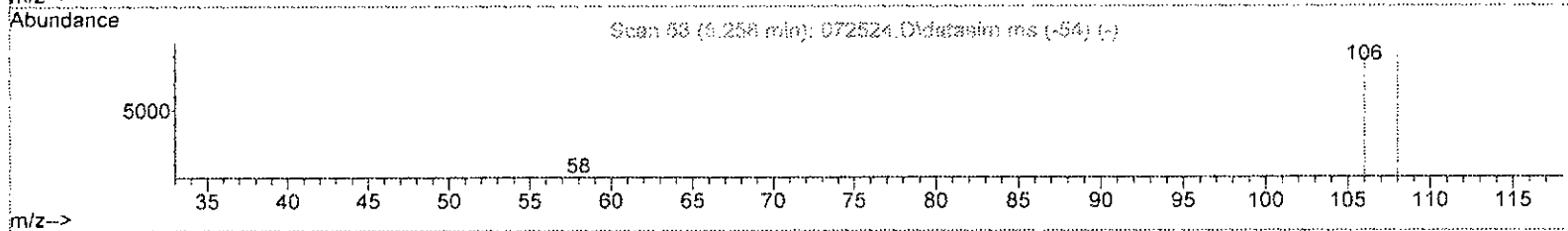
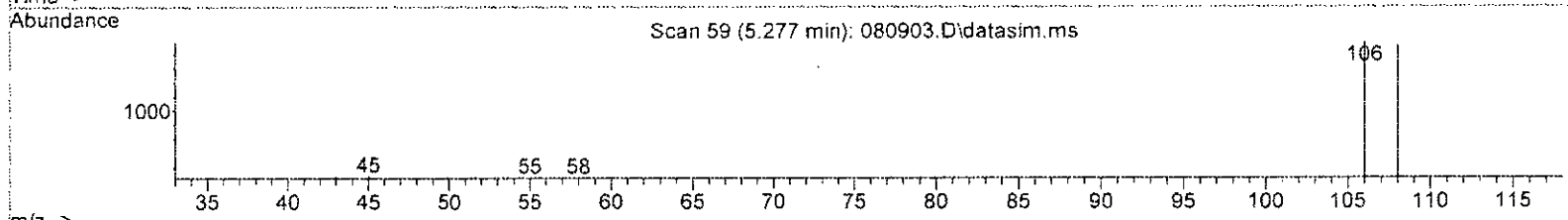
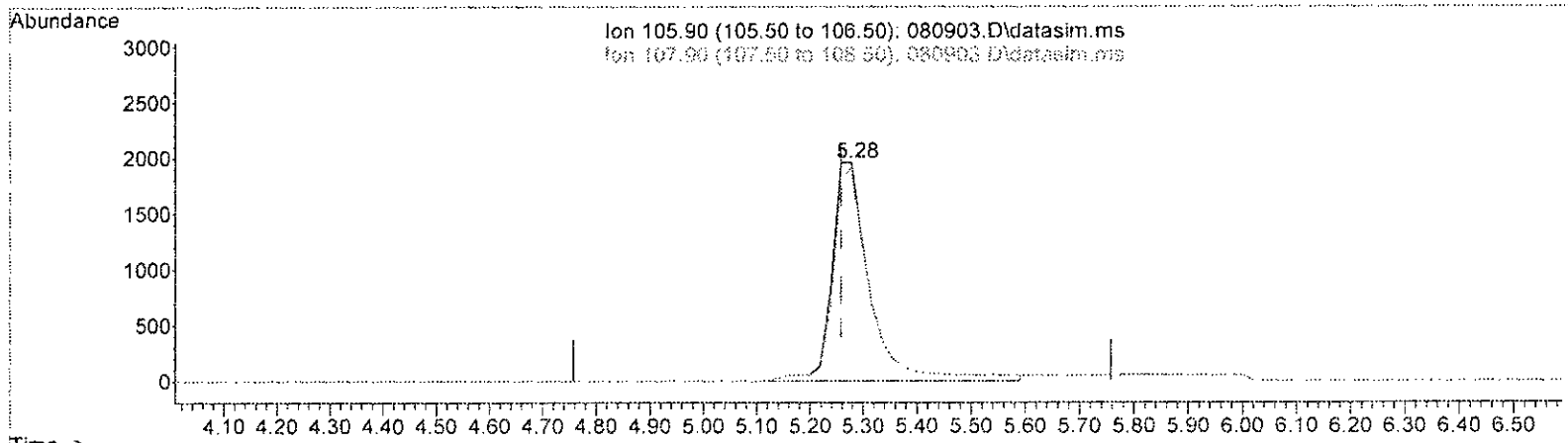
(10) Chloroethane (TMP)			
4.802min (+ 0.000) 2.480 ppbv m			
response	3553		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	35.69	
0.00	0.00	0.00	
0.00	0.00	0.00	

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 080903.D\data.ms

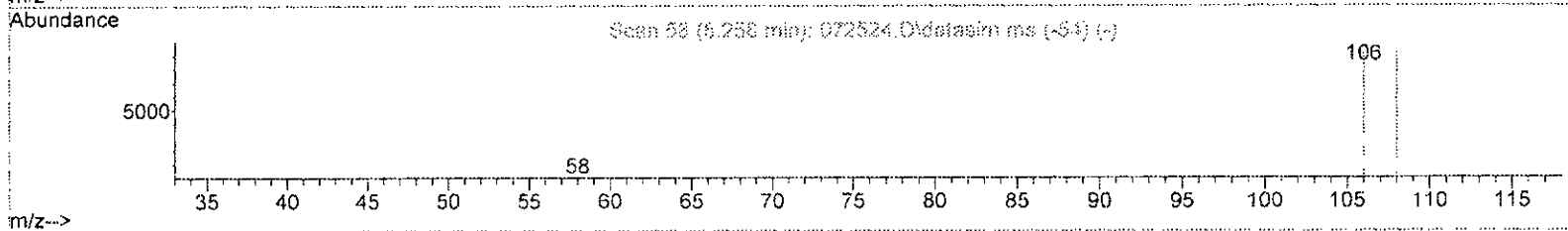
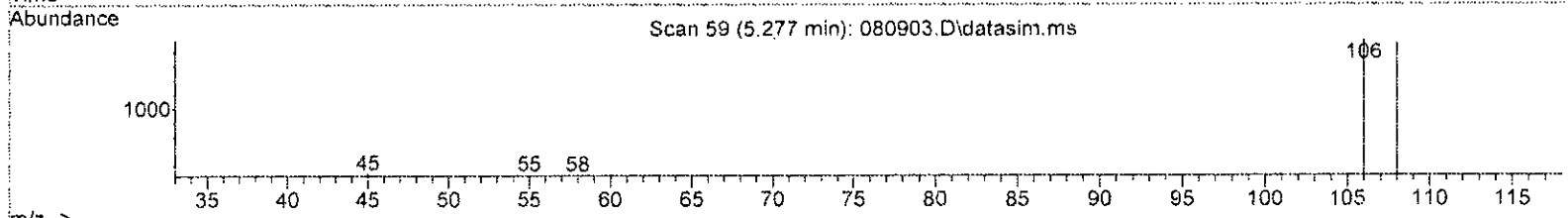
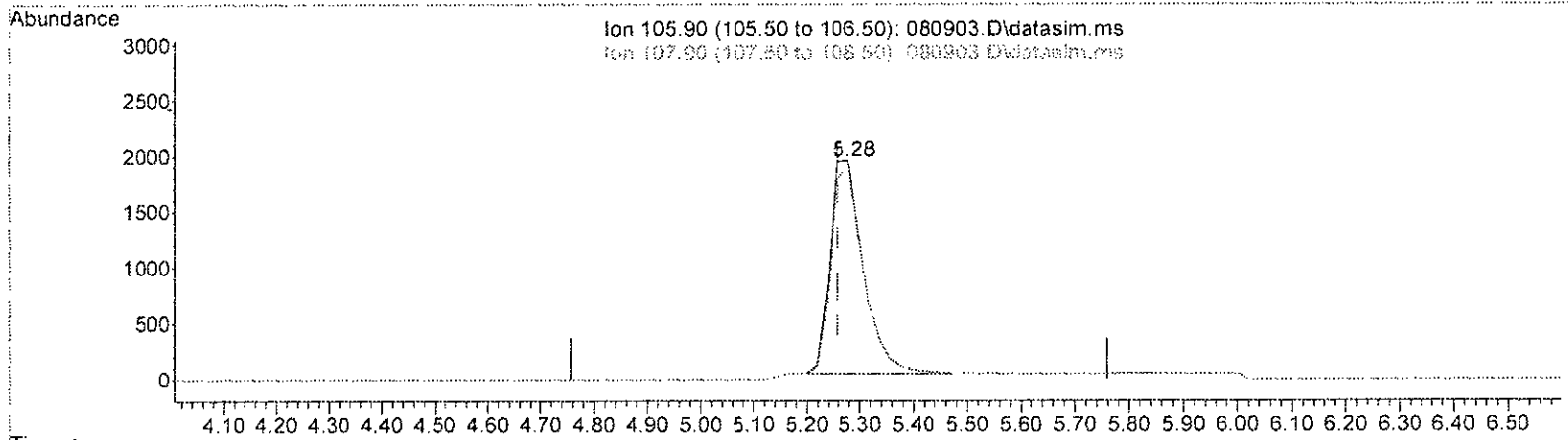
(11) Vinyl bromide (TMP)		
5.277min (+ 0.019)	2.952 ppbv	
response	10584	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	96.58
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

(11) Vinyl bromide (TMP)

5.277min (+ 0.019) 2.336 ppbv m

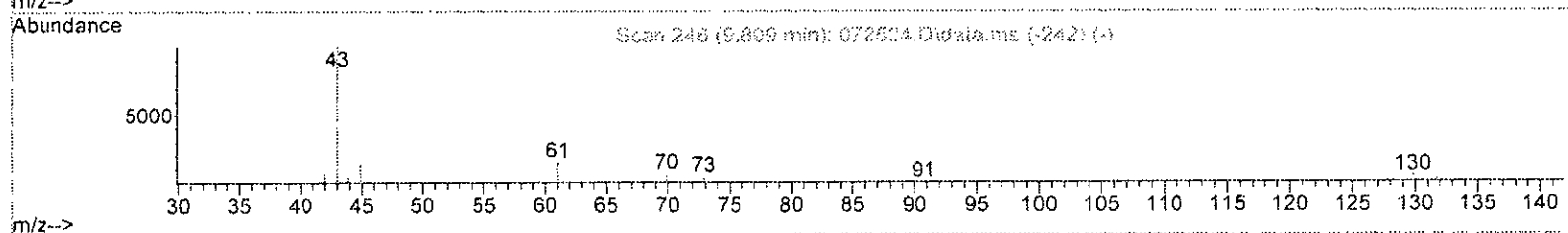
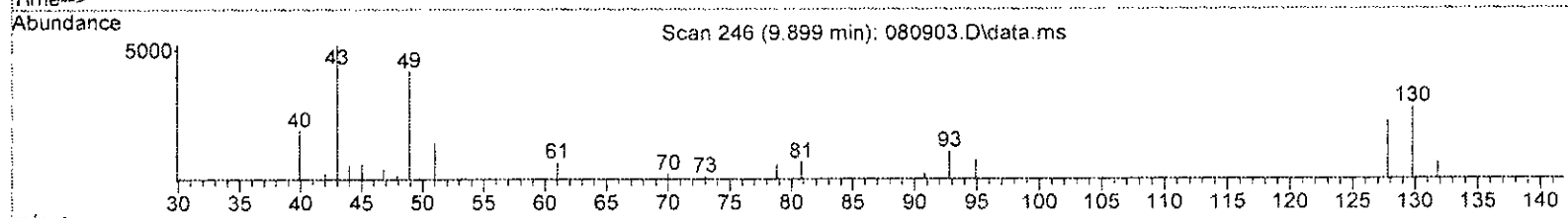
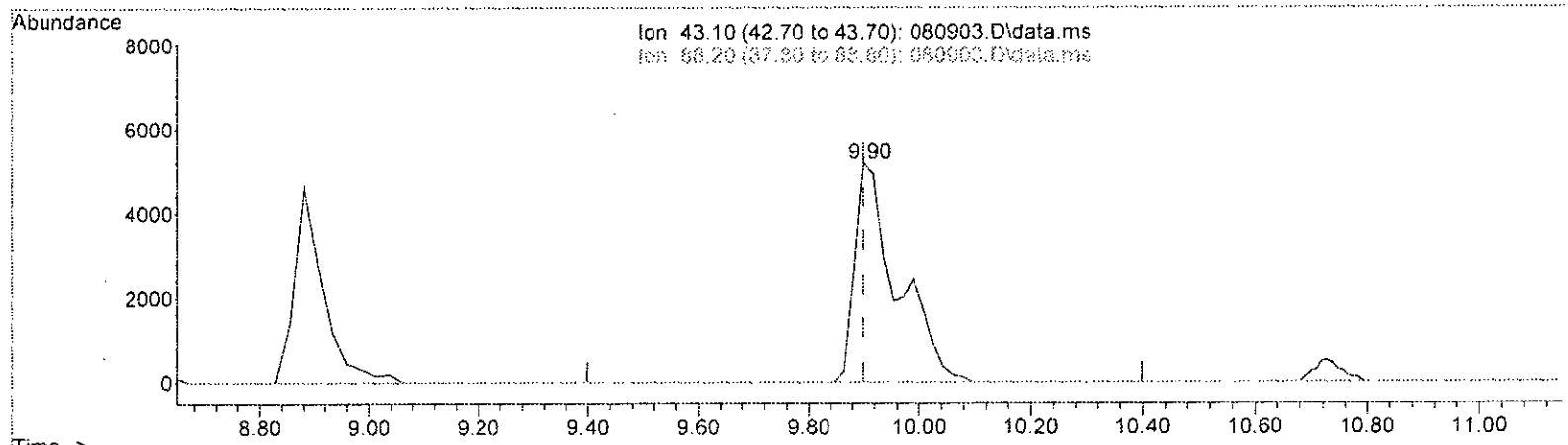
response	8375	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	122.05#
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

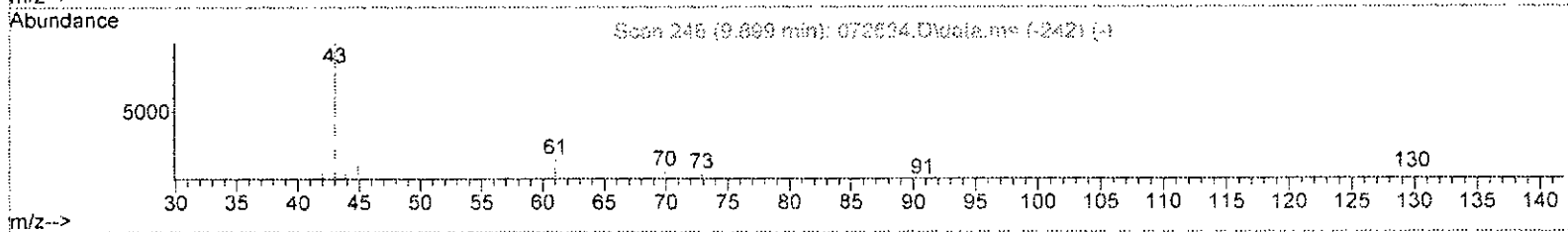
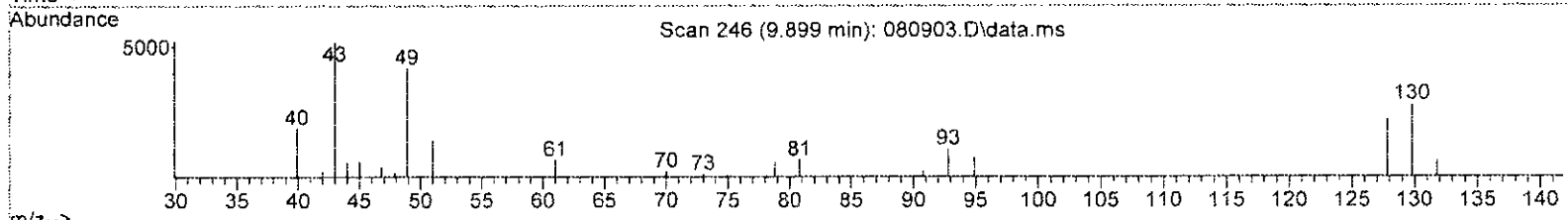
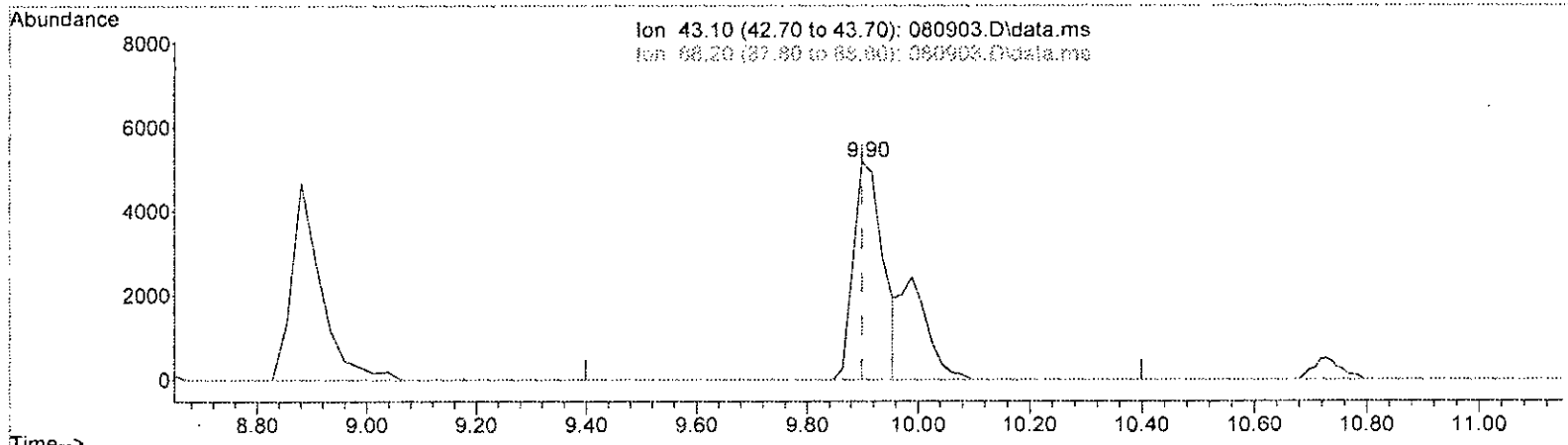
(31) Ethyl acetate (TMP)		
9.899min (+ 0.000)	3.421 ppbv	
response	27435	
Ion	Exp%	Act%
43.10	100.00	100.00
88.20	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080903.D\data.ms

(31) Ethyl acetate (TMP)		
9.899min (+ 0.000)	2.379 ppbv m	
response	19077	
Ion	Exp%	Act%
43.10	100.00	100.00
88.20	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	20781	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	81395	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	73324	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	53720	9.887	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.90%
Target Compounds						
					Qvalue	
2) Propene	3.41	41	7432	2.929	ppbv	98
3) Dichlorodifluoromethane	3.49	85	23064	2.257	ppbv	100
4) Chloromethane	3.73	50	8046	2.260	ppbv	79
5) F-114	3.88	85	22400	2.514	ppbv	97
6] Vinyl chloride	4.05	62	9402	2.336	ppbv	95
7] 1,3-Butadiene	4.21	54	5896	2.284	ppbv #	93
8) Butane	4.32	43	11380	2.205	ppbv	88
9) Bromomethane	4.60	94	8791	2.472	ppbv	99
10] Chloroethane	4.80	64	3553m	2.480	ppbv	
11] Vinyl bromide	5.28	106	8375m	2.336	ppbv	
12) Ethanol	4.92	45	3245	2.873	ppbv	64
13] Acrolein	5.39	56	3259	2.152	ppbv	83
14) Pentane	6.25	43	13352	2.263	ppbv	99
15) Trichlorofluoromethane	5.82	101	26960	2.705	ppbv	93
16) Acetone	5.55	58	3285	2.358	ppbv	98
17) 2-Propanol	5.78	45	15620	2.565	ppbv #	97
18] 1,1-Dichloroethene	6.65	96	8036	2.356	ppbv	99
19] trans-1,2-Dichloroethene	8.07	96	7848	2.324	ppbv	90
20) Methylene chloride	6.78	84	7829	2.349	ppbv	90
21) t-Butyl alcohol (TBA)	6.57	59	13041	2.467	ppbv #	66
22) 3-Chloropropene	6.94	41	10438	2.420	ppbv	99
23) CFC-113	7.15	101	19285	2.633	ppbv	94
24) Carbon disulfide	7.25	76	26901	2.432	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	16273	2.259	ppbv	99
26) Vinyl acetate	8.51	43	18901	2.354	ppbv	100
27] 1,1-Dichloroethane	8.33	63	18157	2.429	ppbv	95
28] cis-1,2-Dichloroethene	9.62	96	8085	2.193	ppbv	98
29) Hexane	9.99	57	9258	2.042	ppbv	83
30] Chloroform	10.07	83	20767	2.387	ppbv	98
31) Ethyl acetate	9.90	43	19077m	2.379	ppbv	
32) Tetrahydrofuran	10.73	42	8547	2.257	ppbv	91
33) 2-Butanone (MEK)	8.88	72	2753	2.218	ppbv #	65
34] 1,2-Dichloroethane (EDC)	11.31	62	14315	2.430	ppbv	98
35] 1,1,1-Trichloroethane	11.79	97	17880	2.518	ppbv	95
36] Carbon tetrachloride	12.83	117	18084	2.465	ppbv	97
37] Benzene	12.58	78	26033	2.235	ppbv	99
38) Cyclohexane	13.05	84	5814	1.998	ppbv	90
40] 1,2-Dichloropropane	13.77	63	12918	2.564	ppbv	98

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

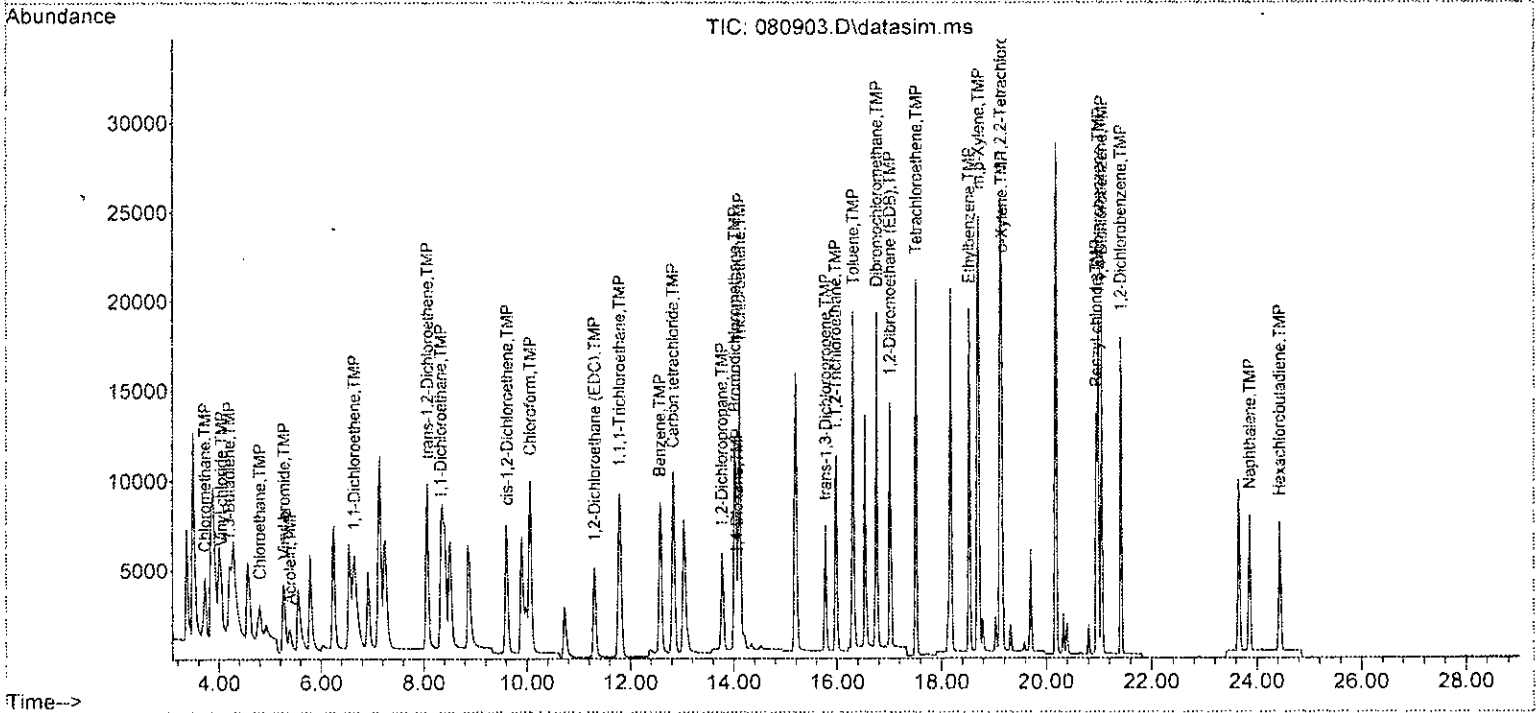
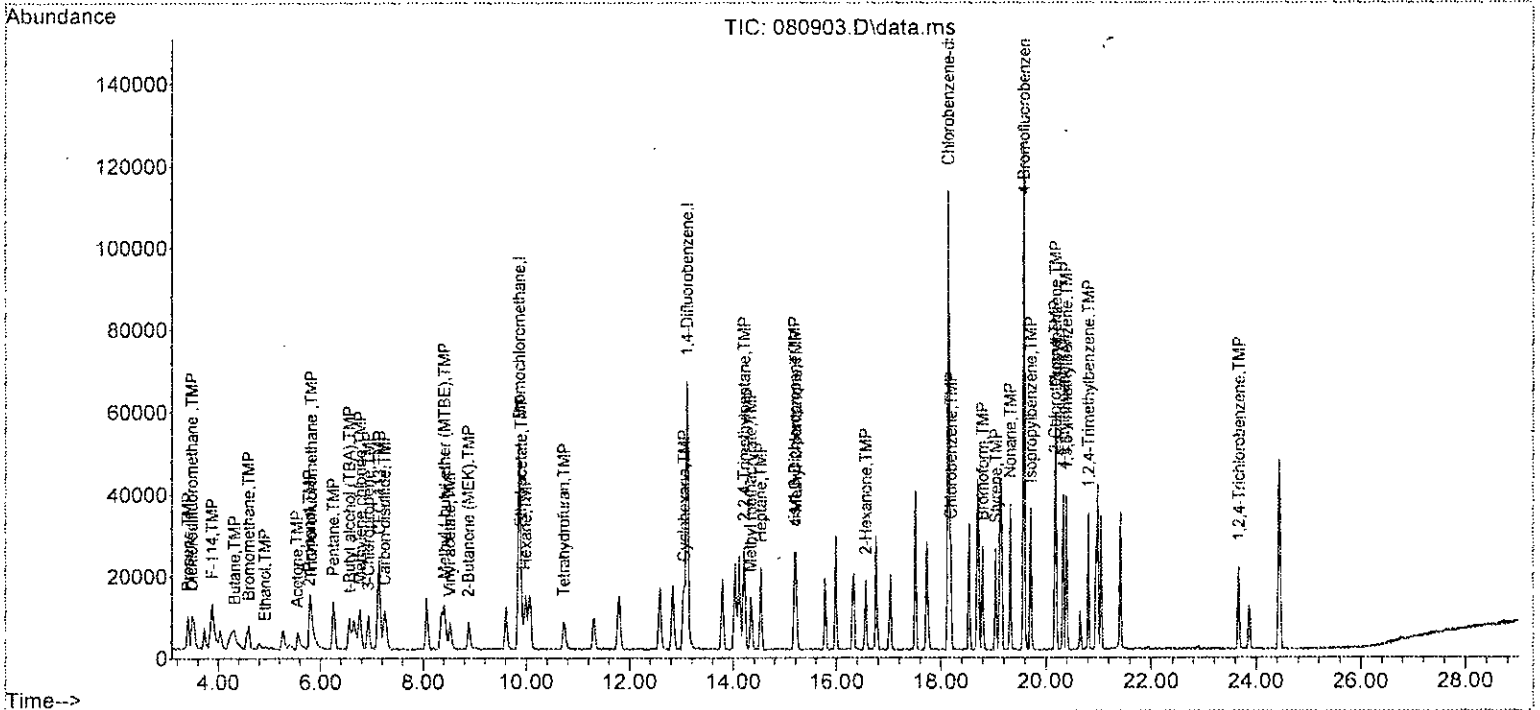
Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	4130	2.174	ppbv	99
42) 2,2,4-Trimethylpentane	14.21	57	36496	2.449	ppbv #	88
43) Methyl methacrylate	14.33	41	10911	2.508	ppbv	95
44) Heptane	14.53	43	11763	2.201	ppbv	97
45] Bromodichloromethane	14.02	83	21331	2.610	ppbv	99
46] Trichloroethene	14.12	95	12817	2.452	ppbv	96
47) cis-1,3-Dichloropropene	15.18	75	13710	2.511	ppbv	98
48) 4-Methyl-2-pentanone	15.21	100	821	2.486	ppbv #	39
49] trans-1,3-Dichloropropene	15.78	75	13184	2.673	ppbv	97
50] Toluene	16.31	92	14899	2.407	ppbv	92
51] 1,1,2-Trichloroethane	15.98	83	13086	2.776	ppbv	98
52) 2-Hexanone	16.56	43	17495	2.577	ppbv	92
53] Tetrachloroethene	17.52	164	9944	2.713	ppbv	91
54] Dibromochloromethane	16.76	129	19110	2.543	ppbv	93
55] 1,2-Dibromoethane (EDB)	17.01	107	18628	2.511	ppbv	82
57) Chlorobenzene	18.19	112	18748	2.393	ppbv	97
58] Ethylbenzene	18.53	91	28103	2.129	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	27167	2.448	ppbv	93
60) Nonane	19.32	43	14815	2.300	ppbv	93
61) Isopropylbenzene	19.72	105	26941	2.366	ppbv	100
62) 2-Chlorotoluene	20.17	126	6727	2.282	ppbv	99
63) Propylbenzene	20.19	91	54383	2.288	ppbv	96
64) 4-Ethyltoluene	20.33	105	24986	2.294	ppbv	99
65] m,p-Xylene	18.70	106	19385	4.354	ppbv	100
66] o-Xylene	19.15	106	9159	2.256	ppbv	94
67) Styrene	19.05	104	12555	2.232	ppbv	93
68) Bromoform	18.80	173	14259	2.174	ppbv	98
70] Benzyl chloride	20.95	91	20593	3.016	ppbv	90
71) 1,3,5-Trimethylbenzene	20.39	105	23118	2.380	ppbv	98
72) 1,2,4-Trimethylbenzene	20.81	105	19654	2.303	ppbv	95
73] 1,3-Dichlorobenzene	20.99	146	17723	2.488	ppbv	91
74] 1,4-Dichlorobenzene	21.05	146	16240	2.461	ppbv	91
75] 1,2-Dichlorobenzene	21.41	146	18005	2.624	ppbv	94
76) 1,2,4-Trichlorobenzene	23.67	180	9475	2.189	ppbv	91
77] Naphthalene	23.86	128	15095	1.913	ppbv	100
78] Hexachlorobutadiene	24.44	225	15592	2.560	ppbv	98

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	110	0.00
2 TMP Propene	2.500	2.929	-17.2	115	0.00
3 TMP Dichlorodifluoromethane	2.500	2.257	9.7	85	0.00
4 TMP Chloromethane	2.500	2.260	9.6	95	0.04
5 TMP F-114	2.500	2.514	-0.6	90	0.00
6 TMP Vinyl chloride	2.500	2.336	6.6	89	0.04
7 TMP 1,3-Butadiene	2.500	2.284	8.6	90	0.00
8 TMP Butane	2.500	2.205	11.8	86	0.04
9 TMP Bromomethane	2.500	2.472	1.1	97	0.04
10 TMP Chloroethane	2.500	2.480	0.8	97	0.00
11 TMP Vinyl bromide	2.500	2.336	6.6	90	0.02
12 TMP Ethanol	2.500	2.873	-14.9	105	0.00
13 TMP Acrolein	2.500	2.152	13.9	89	0.02
14 TMP Pentane	2.500	2.263	9.5	89	0.00
15 TMP Trichlorofluoromethane	2.500	2.705	-8.2	99	0.02
16 TMP Acetone	2.500	2.358	5.7	99	0.00
17 TMP 2-Propanol	2.500	2.565	-2.6	114	0.00
18 TMP 1,1-Dichloroethene	2.500	2.356	5.8	93	0.00
19 TMP trans-1,2-Dichloroethene	2.500	2.324	7.0	92	0.00
20 TMP Methylene chloride	2.500	2.349	6.0	85	0.00
21 TMP t-Butyl alcohol (TBA)	2.500	2.467	1.3	96	0.00
22 TMP 3-Chloropropene	2.500	2.420	3.2	88	0.00
23 TMP CFC-113	2.500	2.633	-5.3	100	0.00
24 TMP Carbon disulfide	2.500	2.432	2.7	95	0.00
25 TMP Methyl t-butyl ether (MTBE)	2.500	2.259	9.6	90	0.00
26 TMP Vinyl acetate	2.500	2.354	5.8	93	0.00
27 TMP 1,1-Dichloroethane	2.500	2.429	2.8	95	0.00
28 TMP cis-1,2-Dichloroethene	2.500	2.193	12.3	89	0.02
29 TMP Hexane	2.500	2.042	18.3	80	0.00
30 TMP Chloroform	2.500	2.387	4.5	94	0.00
31 TMP Ethyl acetate	2.500	2.379	4.8	94	0.00
32 TMP Tetrahydrofuran	2.500	2.257	9.7	88	0.01
33 TMP 2-Butanone (MEK)	2.500	2.218	11.3	90	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.500	2.430	2.8	99	0.01
35 TMP 1,1,1-Trichloroethane	2.500	2.518	-0.7	98	0.00
36 TMP Carbon tetrachloride	2.500	2.465	1.4	95	0.00
37 TMP Benzene	2.500	2.235	10.6	91	0.00
38 TMP Cyclohexane	2.500	1.998	20.1	79	0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	101	0.00
40 TMP 1,2-Dichloropropane	2.500	2.564	-2.6	95	0.00
41 TMP 1,4-Dioxane	2.500	2.174	13.0	81	0.00
42 TMP 2,2,4-Trimethylpentane	2.500	2.449	2.0	89	0.00
43 TMP Methyl methacrylate	2.500	2.508	-0.3	93	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.201	12.0	81	0.00
45 TMP Bromodichloromethane	2.500	2.610	-4.4	93	0.00
46 TMP Trichloroethene	2.500	2.452	1.9	92	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.511	-0.4	90	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.486	0.6	110	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.673	-6.9	97	0.00
50 TMP Toluene	2.500	2.407	3.7	90	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.776	-11.0	102	0.00
52 TMP 2-Hexanone	2.500	2.577	-3.1	91	0.00
53 TMP Tetrachloroethene	2.500	2.713	-8.5	97	0.00
54 TMP Dibromochloromethane	2.500	2.543	-1.7	92	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.511	-0.4	93	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	107	0.00
57 TMP Chlorobenzene	2.500	2.393	4.3	91	0.00
58 TMP Ethylbenzene	2.500	2.129	14.8	82	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.448	2.1	95	0.00
60 TMP Nonane	2.500	2.300	8.0	87	0.00
61 TMP Isopropylbenzene	2.500	2.366	5.4	87	0.00
62 TMP 2-Chlorotoluene	2.500	2.282	8.7	82	0.00
63 TMP Propylbenzene	2.500	2.288	8.5	87	0.00
64 TMP 4-Ethyltoluene	2.500	2.294	8.2	83	0.00
65 TMP m,p-Xylene	5.000	4.354	12.9	86	0.00
66 TMP o-Xylene	2.500	2.256	9.8	85	0.00
67 TMP Styrene	2.500	2.232	10.7	83	0.00
68 TMP Bromoform	2.500	2.174	13.0	82	0.00
69 S 4-Bromofluorobenzene	10.000	9.887	1.1	104	0.00
70 TMP Benzyl chloride	2.500	3.016	-20.6	112	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.380	4.8	85	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	2.303	7.9	81	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.488	0.5	92	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.461	1.6	92	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.624	-5.0	98	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.189	12.4	89	0.00
77 TMP Naphthalene	2.500	1.913	23.5	80	0.00
78 TMP Hexachlorobutadiene	2.500	2.560	-2.4	97	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	110	0.00
2 TMP Propene	1.221	1.431	-17.2	115	0.00
3 TMP Dichlorodifluoromethane	4.917	4.439	9.7	85	0.00
4 TMP Chloromethane	1.713	1.549	9.6	95	0.04
5 TMP F-114	4.288	4.312	-0.6	90	0.00
6 TMP Vinyl chloride	1.937	1.810	6.6	89	0.04
7 TMP 1,3-Butadiene	1.242	1.135	8.6	90	0.00
8 TMP Butane	2.483	2.190	11.8	86	0.04
9 TMP Bromomethane	1.711	1.692	1.1	97	0.04
10 TMP Chloroethane	0.689	0.684	0.7	97	0.00
11 TMP Vinyl bromide	1.725	1.612	6.6	90	0.02
12 TMP Ethanol	0.543	0.625	-15.1	105	0.00
13 TMP Acrolein	0.729	0.627	14.0	89	0.02
14 TMP Pentane	2.839	2.570	9.5	89	0.00
15 TMP Trichlorofluoromethane	4.796	5.189	-8.2	99	0.02
16 TMP Acetone	0.670	0.632	5.7	99	0.00
17 TMP 2-Propanol	2.930	3.007	-2.6	114	0.00
18 TMP 1,1-Dichloroethene	1.641	1.547	5.7	93	0.00
19 TMP trans-1,2-Dichloroethene	1.625	1.511	7.0	92	0.00
20 TMP Methylene chloride	1.604	1.507	6.0	85	0.00
21 TMP t-Butyl alcohol (TBA)	2.544	2.510	1.3	96	0.00
22 TMP 3-Chloropropene	2.076	2.009	3.2	88	0.00
23 TMP CFC-113	3.525	3.712	-5.3	100	0.00
24 TMP Carbon disulfide	5.324	5.178	2.7	95	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.467	3.132	9.7	90	0.00
26 TMP Vinyl acetate	3.863	3.638	5.8	93	0.00
27 TMP 1,1-Dichloroethane	3.597	3.495	2.8	95	0.00
28 TMP cis-1,2-Dichloroethene	1.774	1.556	12.3	89	0.02
29 TMP Hexane	2.181	1.782	18.3	80	0.00
30 TMP Chloroform	4.186	3.997	4.5	94	0.00
31 TMP Ethyl acetate	3.859	3.672	4.8	94	0.00
32 TMP Tetrahydrofuran	1.822	1.645	9.7	88	0.01
33 TMP 2-Butanone (MEK)	0.597	0.530	11.2	90	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.835	2.755	2.8	99	0.01
35 TMP 1,1,1-Trichloroethane	3.417	3.442	-0.7	98	0.00
36 TMP Carbon tetrachloride	3.530	3.481	1.4	95	0.00
37 TMP Benzene	5.604	5.011	10.6	91	0.00
38 TMP Cyclohexane	1.400	1.119	20.1	79	0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
40 TMP 1,2-Dichloropropane	0.619	0.635	-2.6	95	0.00
41 TMP 1,4-Dioxane	0.233	0.203	12.9	81	0.00
42 TMP 2,2,4-Trimethylpentane	1.831	1.794	2.0	89	0.00
43 TMP Methyl methacrylate	0.534	0.536	-0.4	93	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080903.D  
 Acq On : 9 Aug 2023 11:02 am  
 Operator : bat  
 Sample : 03-1809 lcs/ 2.5 ppbv 69-157a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:33 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.656	0.578	11.9	81	0.00
45 TMP Bromodichloromethane	1.004	1.048	-4.4	93	0.00
46 TMP Trichloroethene	0.642	0.630	1.9	92	0.00
47 TMP cis-1,3-Dichloropropene	0.671	0.674	-0.4	90	0.00
48 TMP 4-Methyl-2-pentanone	0.041	0.040	2.4	110	0.00
49 TMP trans-1,3-Dichloropropene	0.606	0.648	-6.9	97	0.00
50 TMP Toluene	0.761	0.732	3.8	90	0.00
51 TMP 1,1,2-Trichloroethane	0.579	0.643	-11.1	102	0.00
52 TMP 2-Hexanone	0.834	0.860	-3.1	91	0.00
53 TMP Tetrachloroethene	0.450	0.489	-8.7	97	0.00
54 TMP Dibromochloromethane	0.923	0.939	-1.7	92	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.911	0.915	-0.4	93	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
57 TMP Chlorobenzene	1.069	1.023	4.3	91	0.00
58 TMP Ethylbenzene	1.800	1.533	14.8	82	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.514	1.482	2.1	95	0.00
60 TMP Nonane	0.879	0.808	8.1	87	0.00
61 TMP Isopropylbenzene	1.553	1.470	5.3	87	0.00
62 TMP 2-Chlorotoluene	0.402	0.367	8.7	82	0.00
63 TMP Propylbenzene	3.242	2.967	8.5	87	0.00
64 TMP 4-Ethyltoluene	1.485	1.363	8.2	83	0.00
65 TMP m,p-Xylene	0.607	0.529	12.9	86	0.00
66 TMP o-Xylene	0.554	0.500	9.7	85	0.00
67 TMP Styrene	0.767	0.685	10.7	83	0.00
68 TMP Bromoform	0.895	0.778	13.1	82	0.00
69 S 4-Bromofluorobenzene	0.741	0.733	1.1	104	0.00
70 TMP Benzyl chloride	0.931	1.123	-20.6	112	0.00
71 TMP 1,3,5-Trimethylbenzene	1.325	1.261	4.8	85	0.00
72 TMP 1,2,4-Trimethylbenzene	1.164	1.072	7.9	81	0.00
73 TMP 1,3-Dichlorobenzene	0.972	0.967	0.5	92	0.00
74 TMP 1,4-Dichlorobenzene	0.900	0.886	1.6	92	0.00
75 TMP 1,2-Dichlorobenzene	0.936	0.982	-4.9	98	0.00
76 TMP 1,2,4-Trichlorobenzene	0.590	0.517	12.4	89	0.00
77 TMP Naphthalene	1.053	0.823	21.8	80	0.00
78 TMP Hexachlorobutadiene	0.831	0.851	-2.4	97	0.00

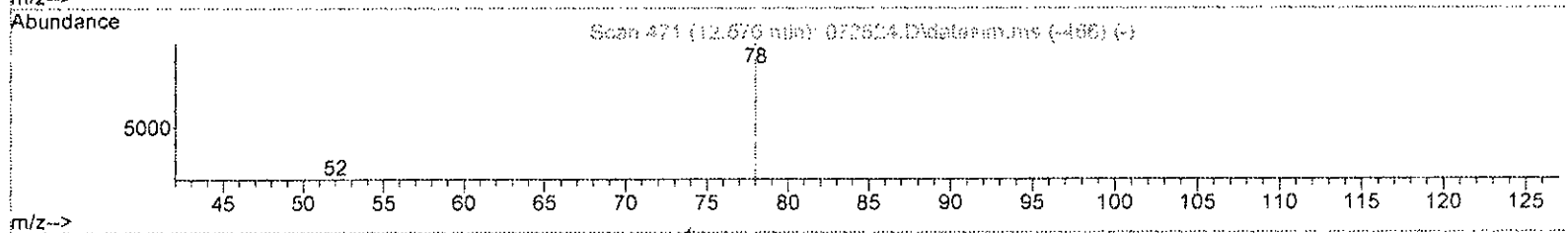
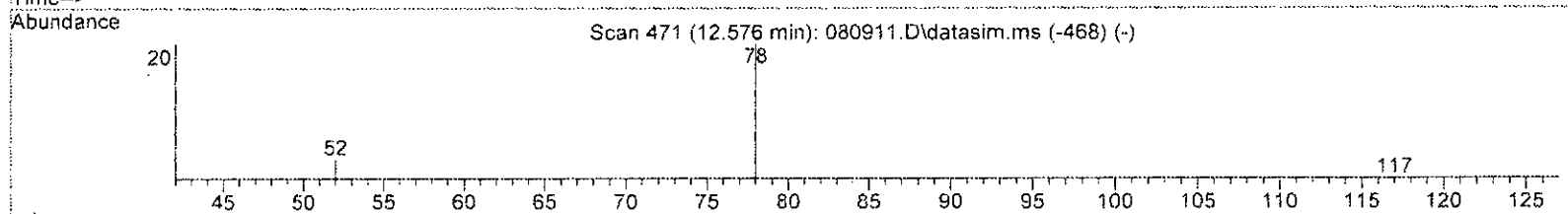
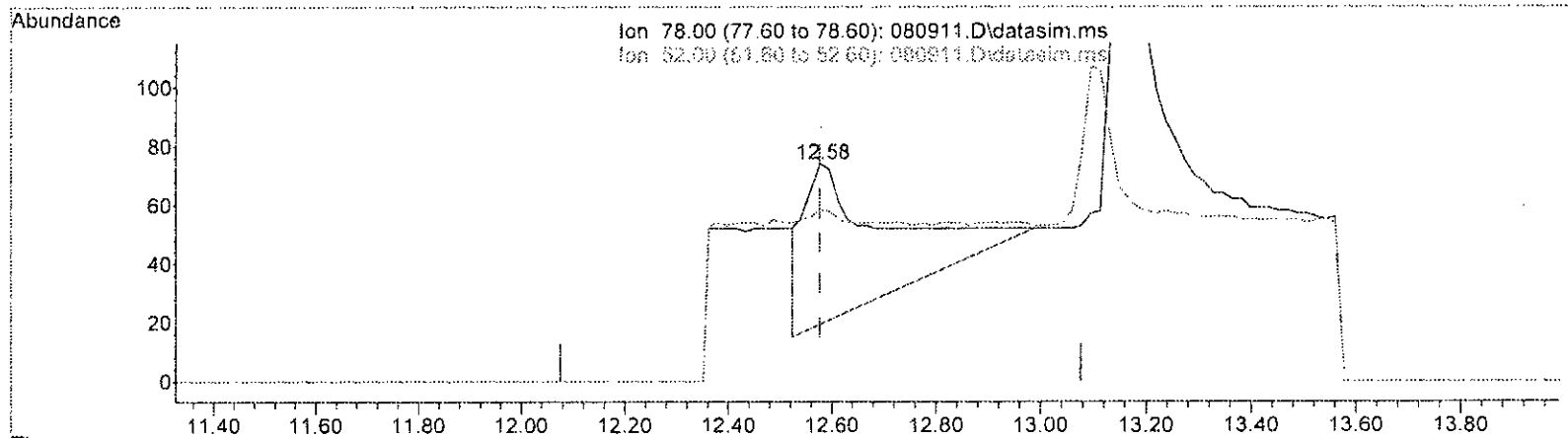
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 080911.D\data.ms

(37) Benzene (TMP)		
12.576min (+ 0.000)	0.052 ppbv	
response	594	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	22.73
0.00	0.00	0.00
0.00	0.00	0.00

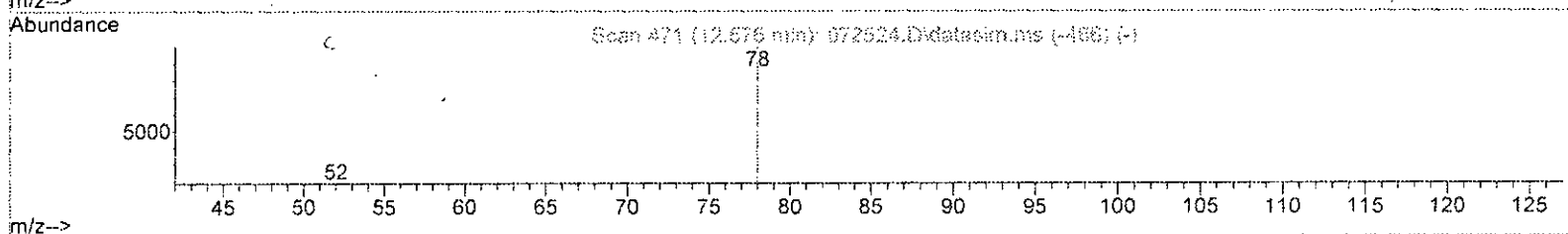
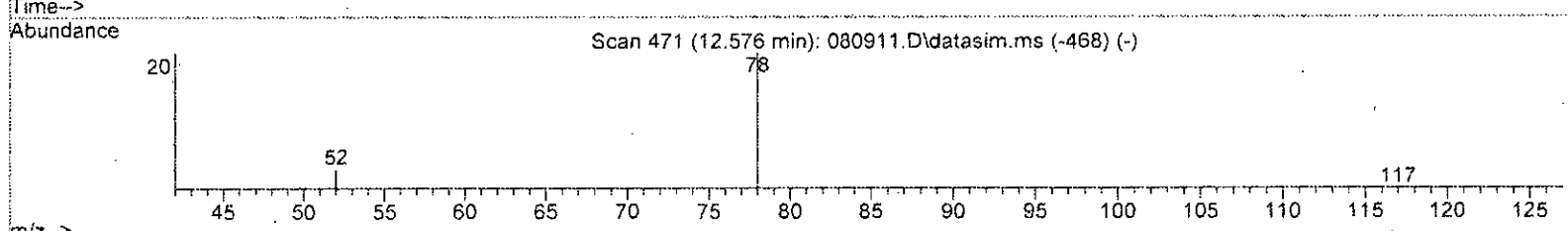
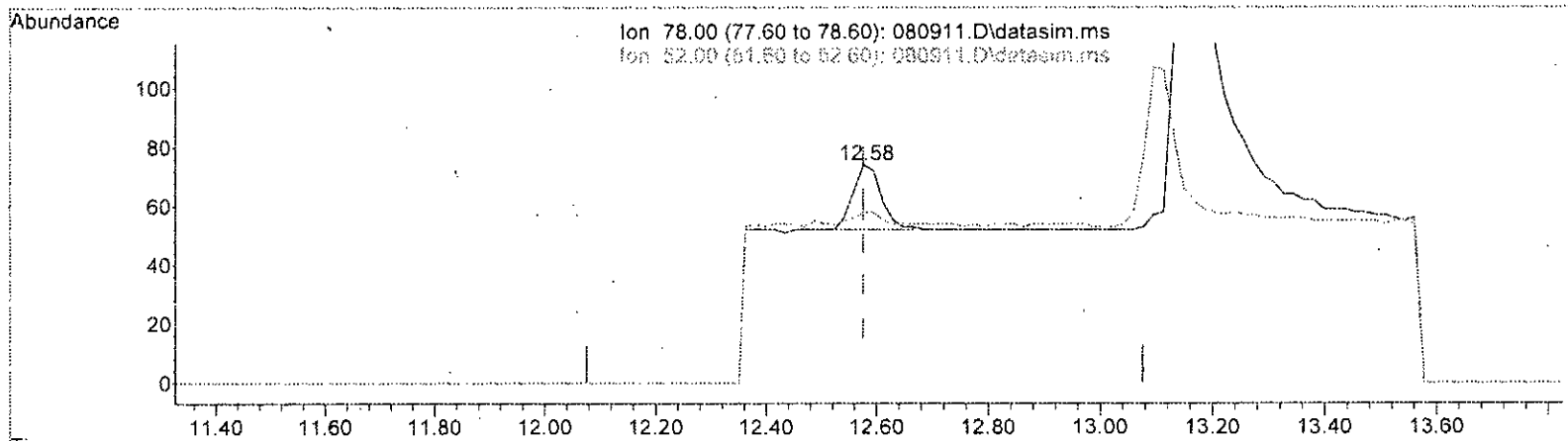
*Handwritten note: 140 8/10/23*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080911.D\data.ms

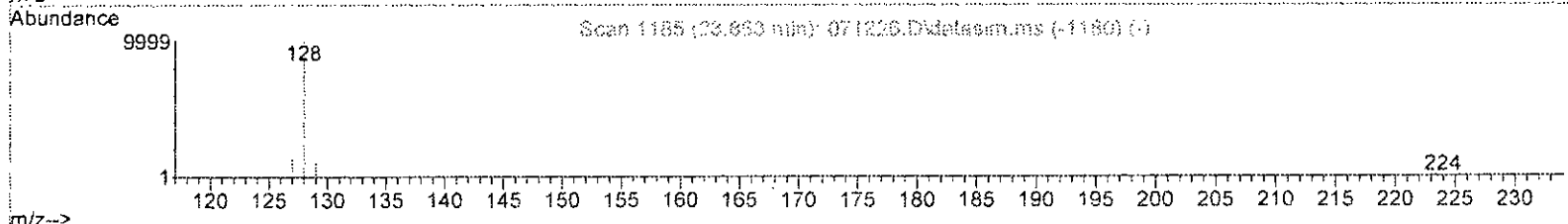
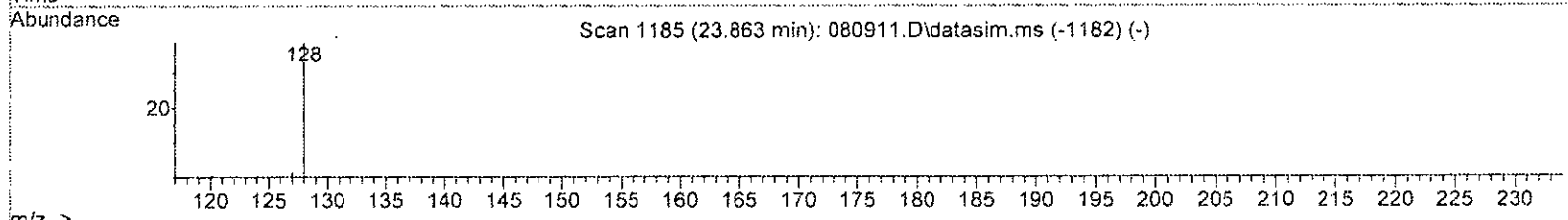
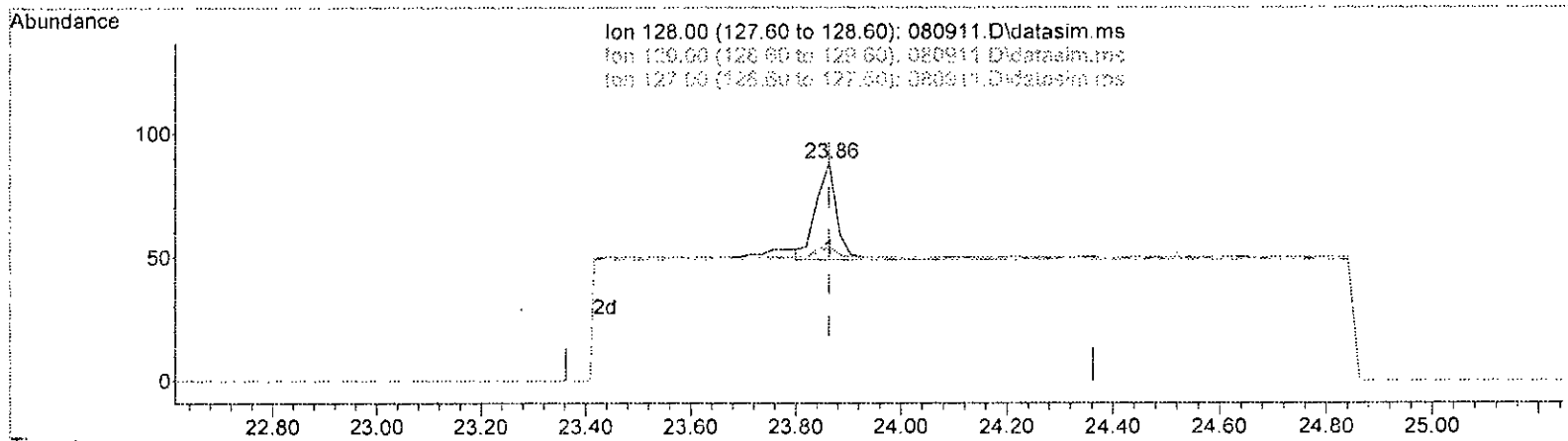
(37) Benzene (TMP)			
12.576min (+0.000) 0.007 ppbv m			
response	78		
Ion	Exp%	Act%	
78.00	100.00	100.00	
52.00	19.70	78.38#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*MO 9/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080911.D\data.ms

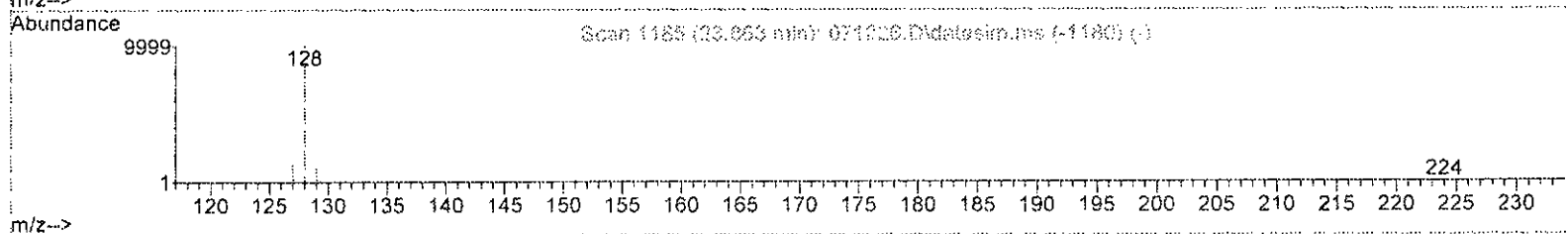
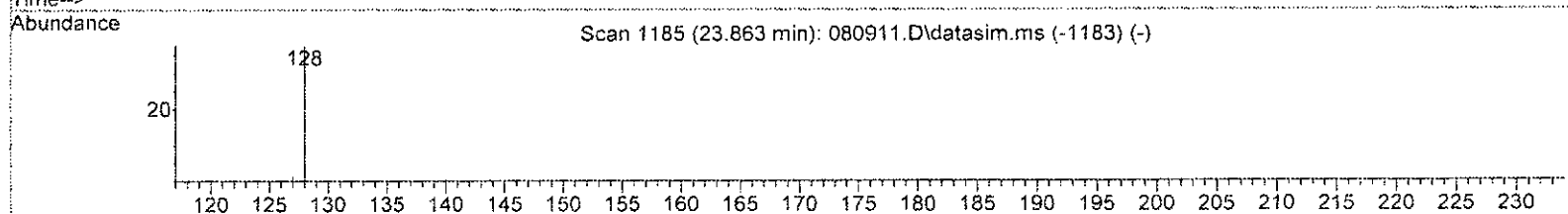
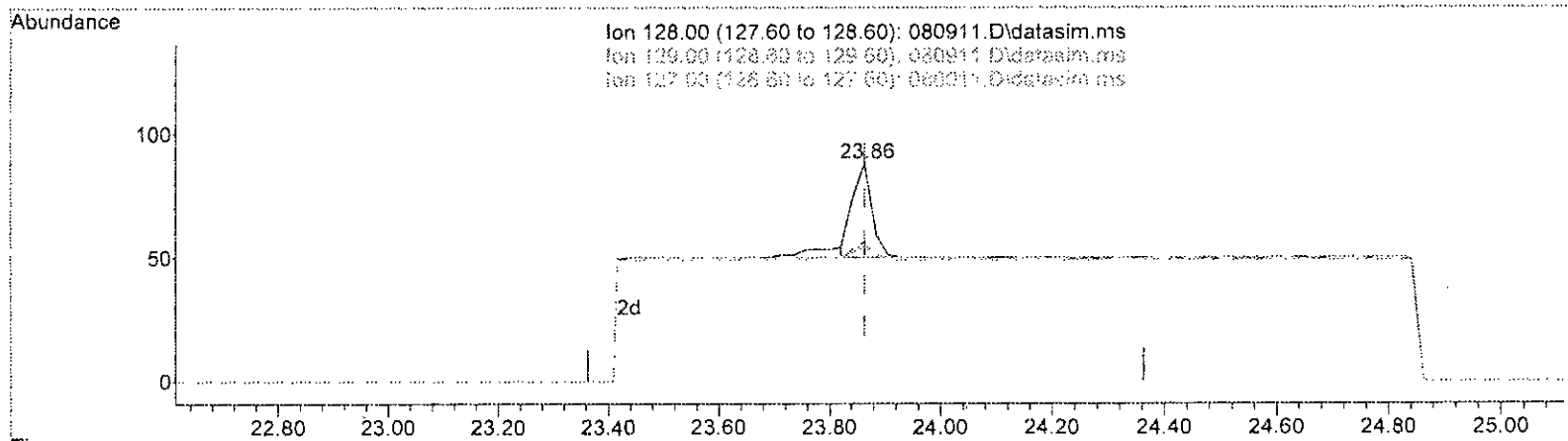
(77) Naphthalene (TMP)			
23.863min	(-0.000)	0.016	ppbv
response	122		
Ion	Exp%	Act%	
128.00	100.00	100.00	
129.00	11.00	10.26	
127.00	13.20	15.38	
0.00	0.00	0.00	

MAD  
8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\072ST015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 080911.D\data.ms

(77) Naphthalene (TMP)  
 23.863min (-0.000) 0.012 ppbv m

response	92
Ion	Exp% Act%
128.00	100.00 100.00
129.00	11.00 61.36#
127.00	13.20 62.50#
0.00	0.00 0.00

*MD*  
*8/10/23*

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

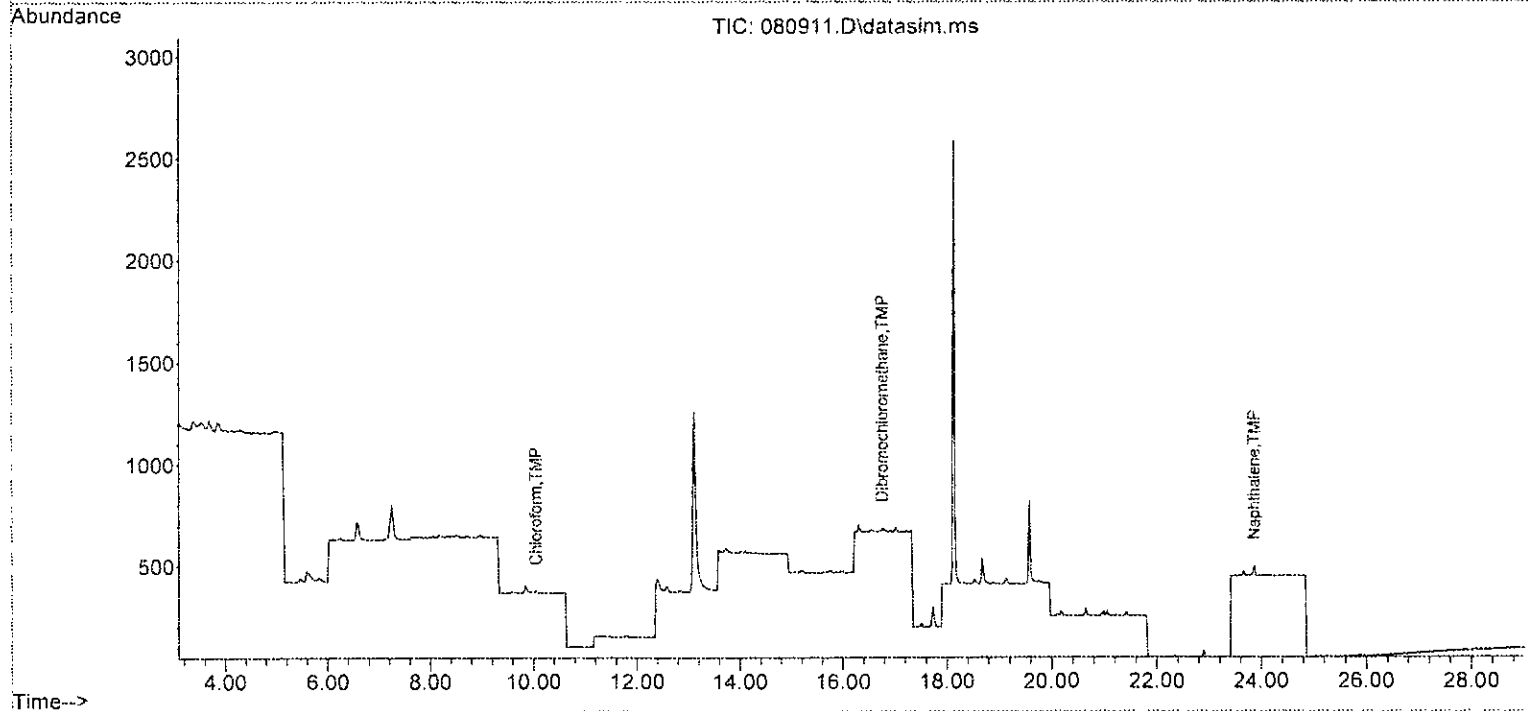
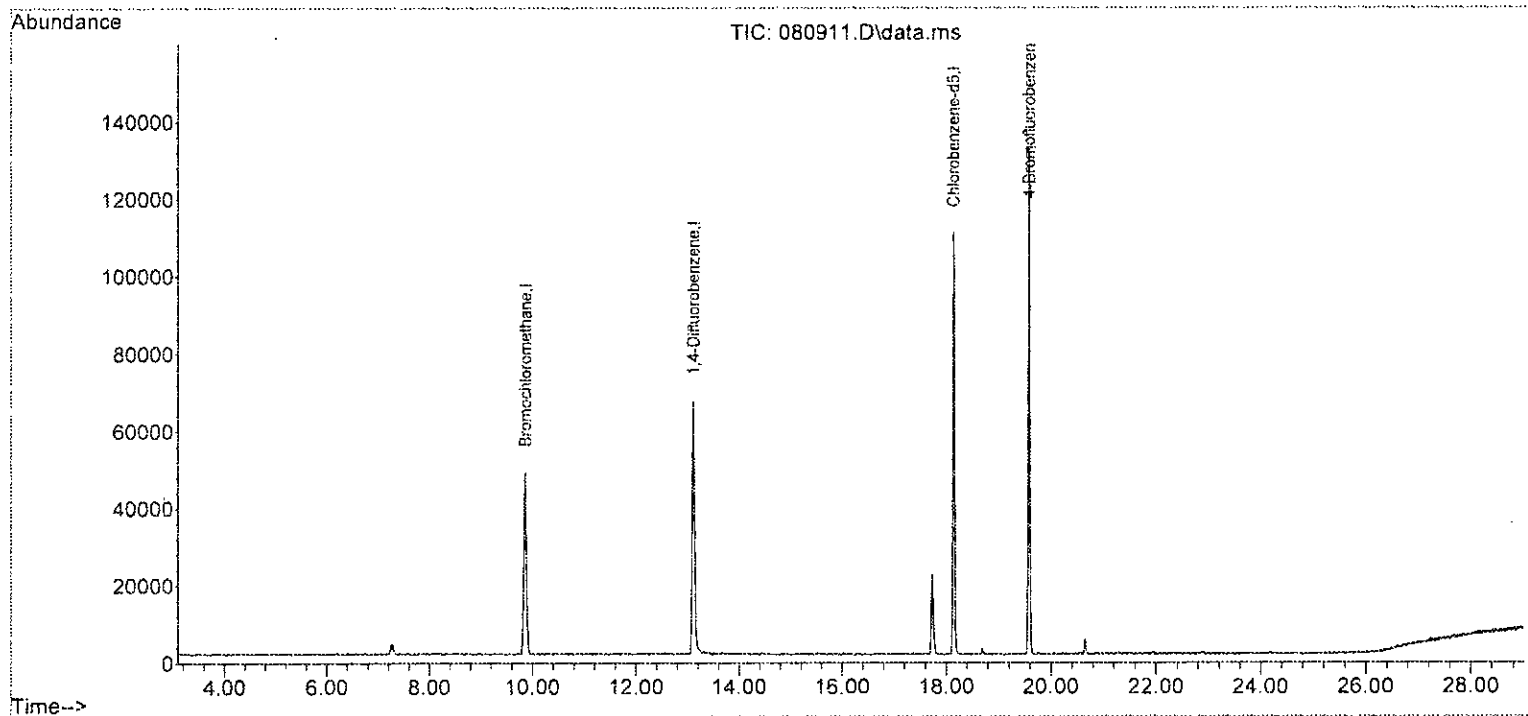
Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

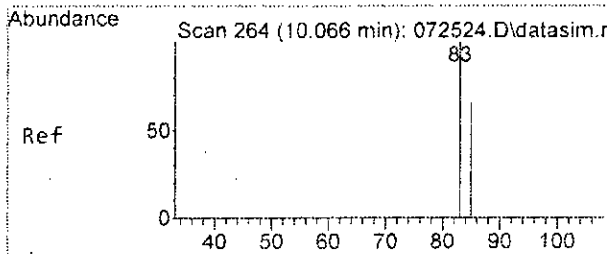
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	20411	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80434	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	72651	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	49697	9.231	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.30%
Target Compounds						
30] Chloroform	10.05	83	29	0.003	ppbv	67
54] Dibromochloromethane	16.76	129	25	0.003	ppbv	79
77] Naphthalene	23.86	128	92m	0.012	ppbv	
-----						

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

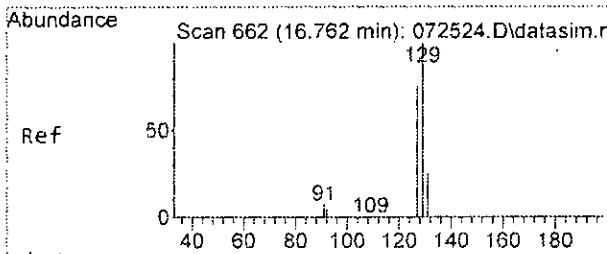
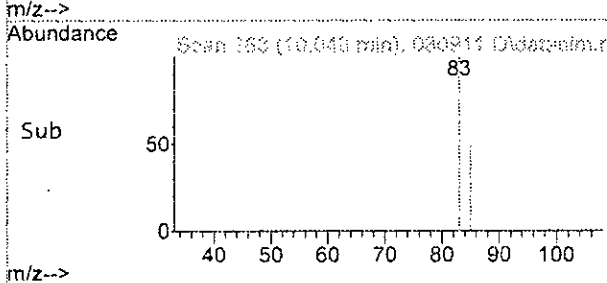
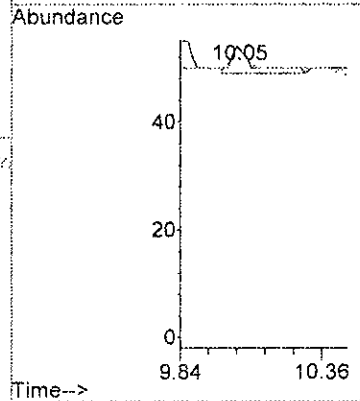
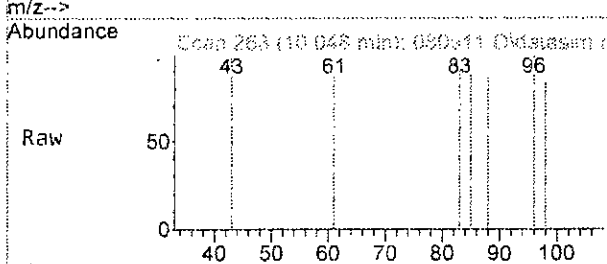
Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M





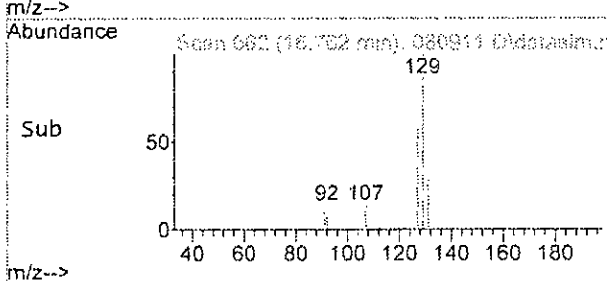
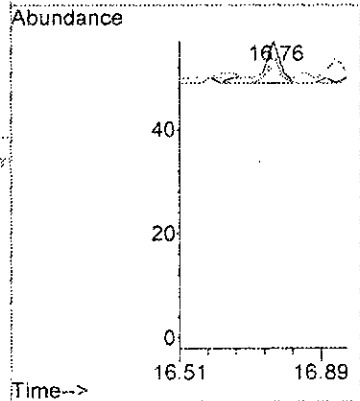
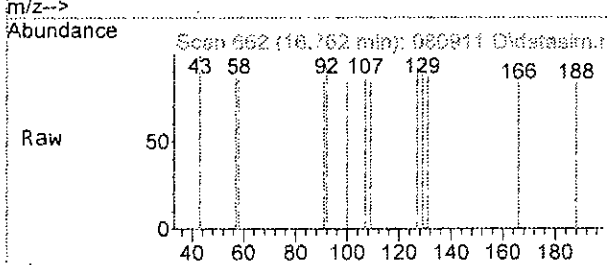
#30  
 Chloroform  
 Concen: 0.003 ppbv  
 RT: 10.05 min Scan# 263  
 Delta R.T. -0.018 min  
 Lab File: 080911.D  
 Acq: 9 Aug 2023 4:16 pm

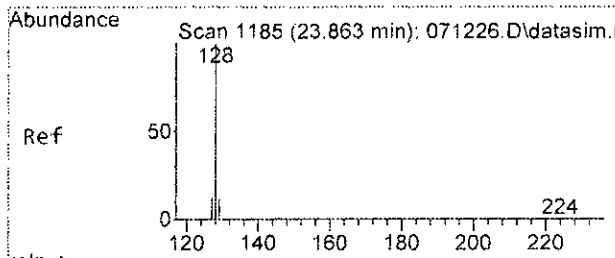
Tgt Ion	Resp	Lower	Upper
83	100		
85	40.0	36.3	96.3



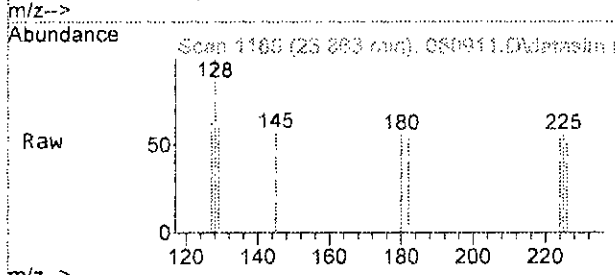
#54  
 Dibromochloromethane  
 Concen: 0.003 ppbv  
 RT: 16.76 min Scan# 662  
 Delta R.T. 0.000 min  
 Lab File: 080911.D  
 Acq: 9 Aug 2023 4:16 pm

Tgt Ion	Resp	Lower	Upper
129	100		
127	62.5	51.9	111.9
131	12.5	0.0	52.3



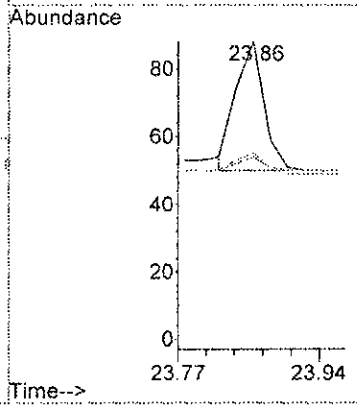
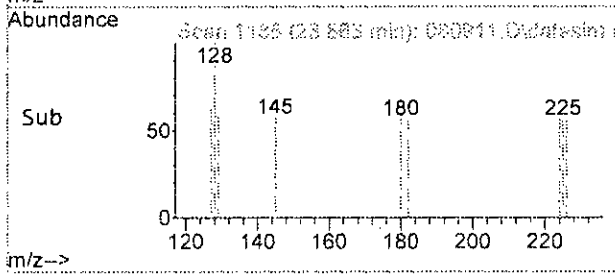


#77  
 Naphthalene  
 Concen: 0.012 ppbv m  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080911.D  
 Acq: 9 Aug 2023 4:16 pm



Tgt Ion: 128 Resp: 92

Ion	Ratio	Lower	Upper
128	100		
129	61.4	0.0	41.0#
127	62.5	0.0	43.2#



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	20411	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80434	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	72651	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	49697	9.231	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D.	
3) Dichlorodifluoromethane	0.00		0		N.D.	
4) Chloromethane	3.69	50	119		N.D.	
5) F-114	0.00		0		N.D.	
6) Vinyl chloride	0.00		0		N.D.	
7) 1,3-Butadiene	0.00		0		N.D.	
8) Butane	0.00		0		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	0.00		0		N.D.	
13) Acrolein	0.00		0		N.D.	
14) Pentane	0.00		0		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D.	
16) Acetone	0.00		0		N.D.	
17) 2-Propanol	0.00		0		N.D.	
18) 1,1-Dichloroethene	0.00		0		N.D.	
19) trans-1,2-Dichloroethene	8.05	96	38		N.D.	
20) Methylene chloride	0.00		0		N.D.	
21) t-Butyl alcohol (TBA)	0.00		0		N.D.	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	0.00		0		N.D.	
25) Methyl t-butyl ether (...)	0.00		0		N.D.	
26) Vinyl acetate	0.00		0		N.D.	
27) 1,1-Dichloroethane	8.33	63	39		N.D.	
28) cis-1,2-Dichloroethene	0.00		0		N.D.	
29) Hexane	0.00		0		N.D.	
30] Chloroform	10.05	83	29	0.003	ppbv	67
31) Ethyl acetate	0.00		0		N.D.	
32) Tetrahydrofuran	0.00		0		N.D.	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34) 1,2-Dichloroethane (EDC)	0.00		0		N.D.	
35) 1,1,1-Trichloroethane	11.53	97	101		N.D.	
36) Carbon tetrachloride	0.00		0		N.D.	
37) Benzene	12.58	78	78		N.D.	
38) Cyclohexane	13.13	84	225		N.D.	
40) 1,2-Dichloropropane	0.00		0		N.D. d	



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

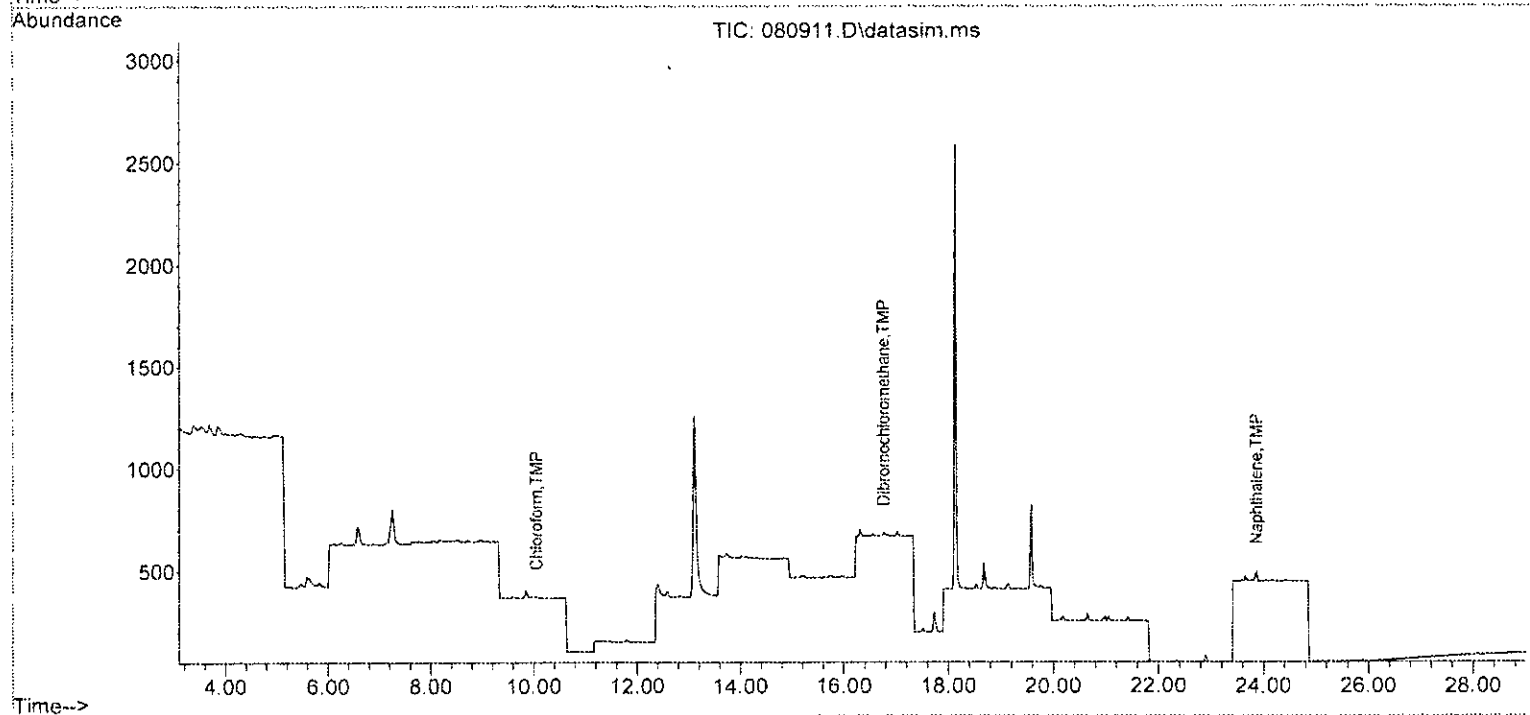
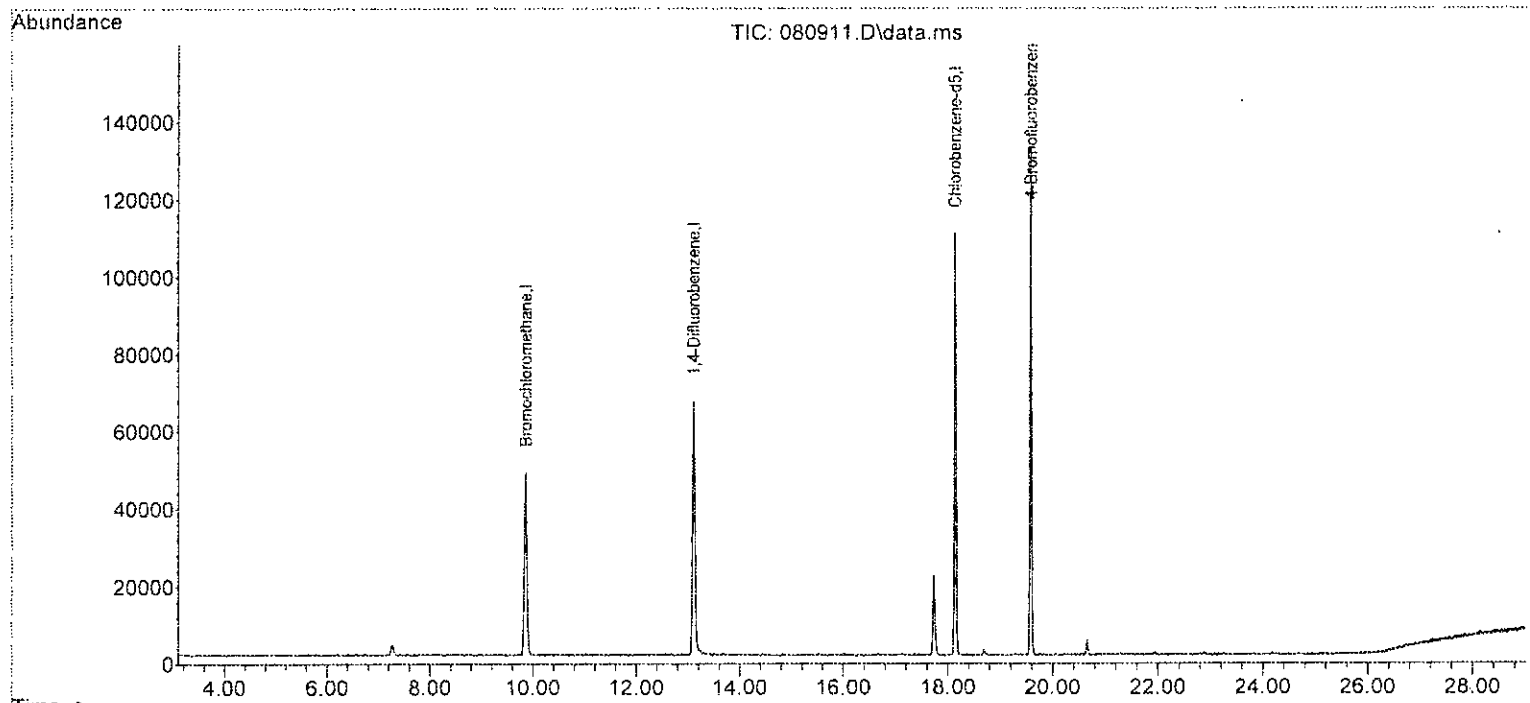
Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D.	
44) Heptane	0.00		0		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	1326		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D.	
53) Tetrachloroethene	17.36	164	181		N.D.	
54] Dibromochloromethane	16.76	129	25	0.003	ppbv	79
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	18.53	91	31		N.D.	
59) 1,1,2,2-Tetrachloroethane	19.12	83	25		N.D.	
60) Nonane	0.00		0		N.D.	
61) Isopropylbenzene	0.00		0		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	0.00		0		N.D.	
65) m,p-Xylene	18.68	106	40		N.D.	
66) o-Xylene	0.00		0		N.D.	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D.	
73) 1,3-Dichlorobenzene	20.98	146	24		N.D.	
74) 1,4-Dichlorobenzene	21.05	146	22		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.86	128	92m	0.012	ppbv	
78) Hexachlorobutadiene	0.00		0		N.D.	

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080911.D  
 Acq On : 9 Aug 2023 4:16 pm  
 Operator : bat  
 Sample : 03-1809 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:40 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

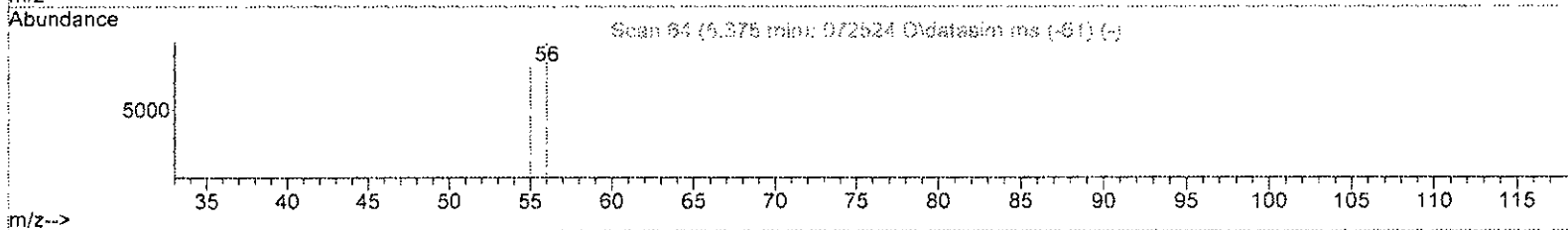
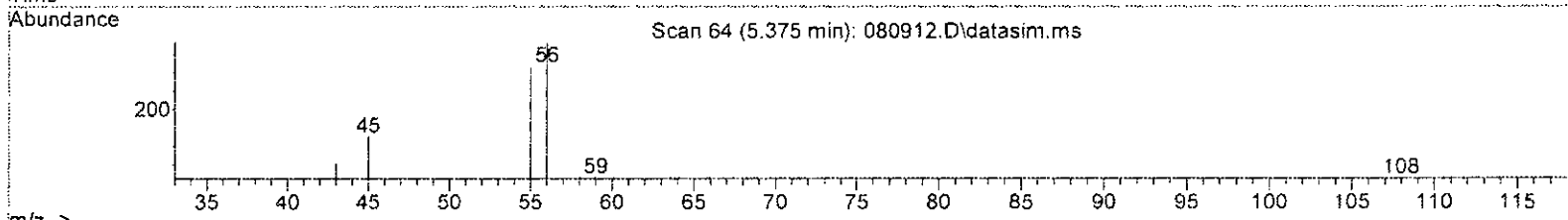
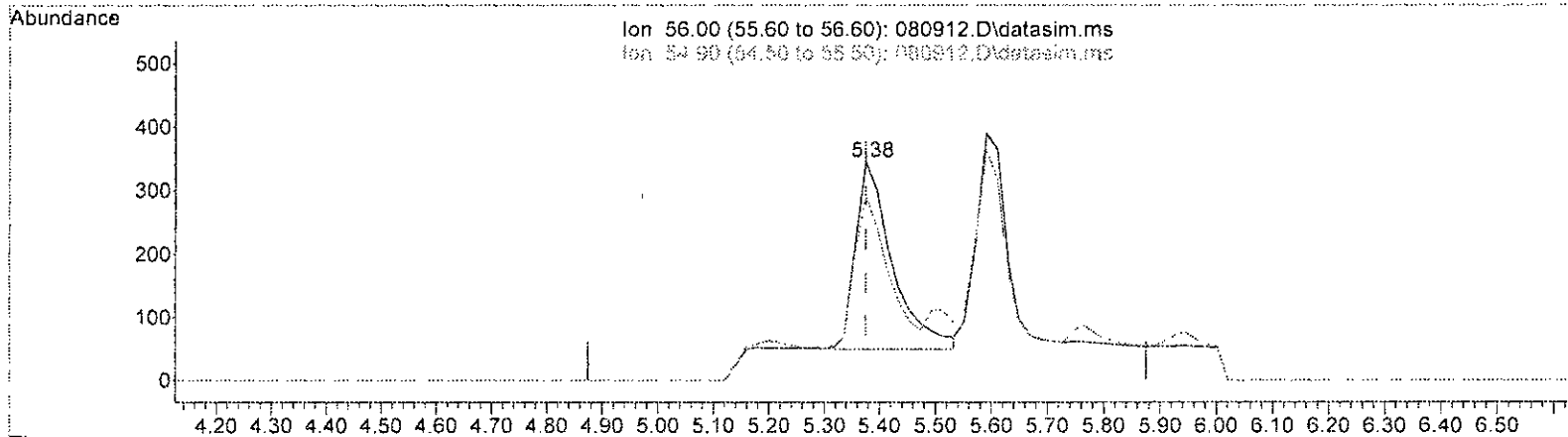


# EPA TO-15 Sample Data

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

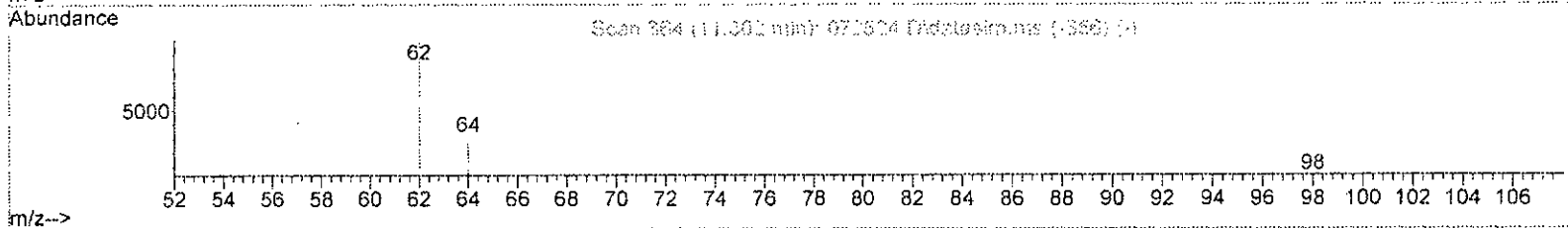
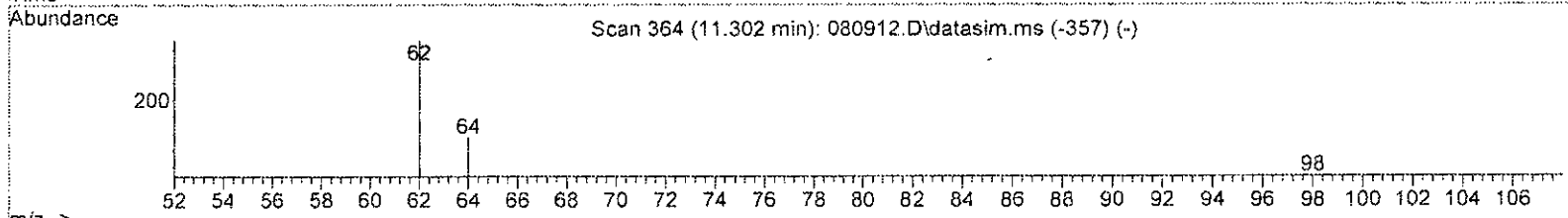
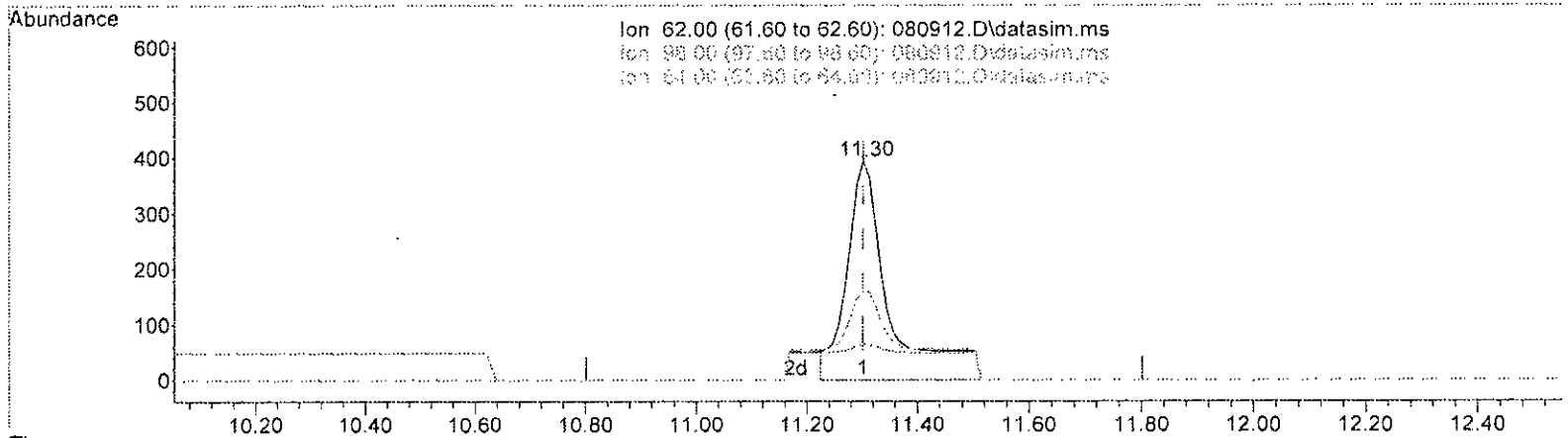
(13) Acrolein (TMP)		
Time	Response	Concentration
5.375min (+ 0.000)	1361	0.971 ppbv m
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	95.15
0.00	0.00	0.00
0.00	0.00	0.00

*MAD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

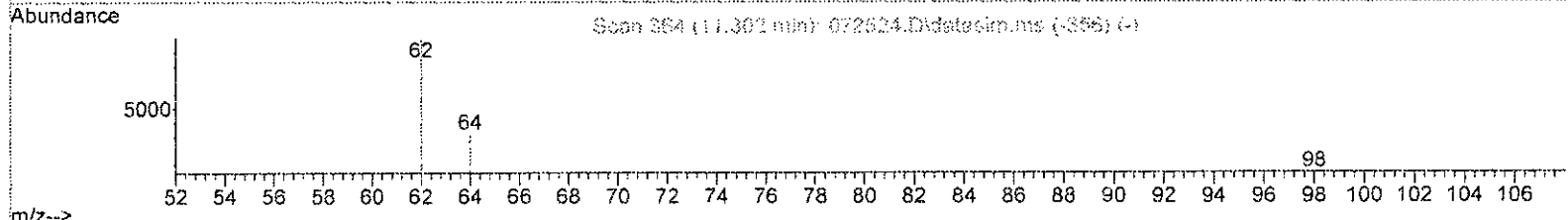
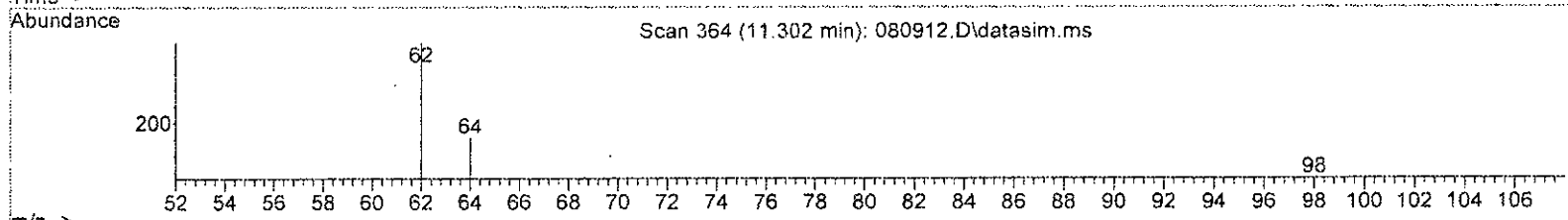
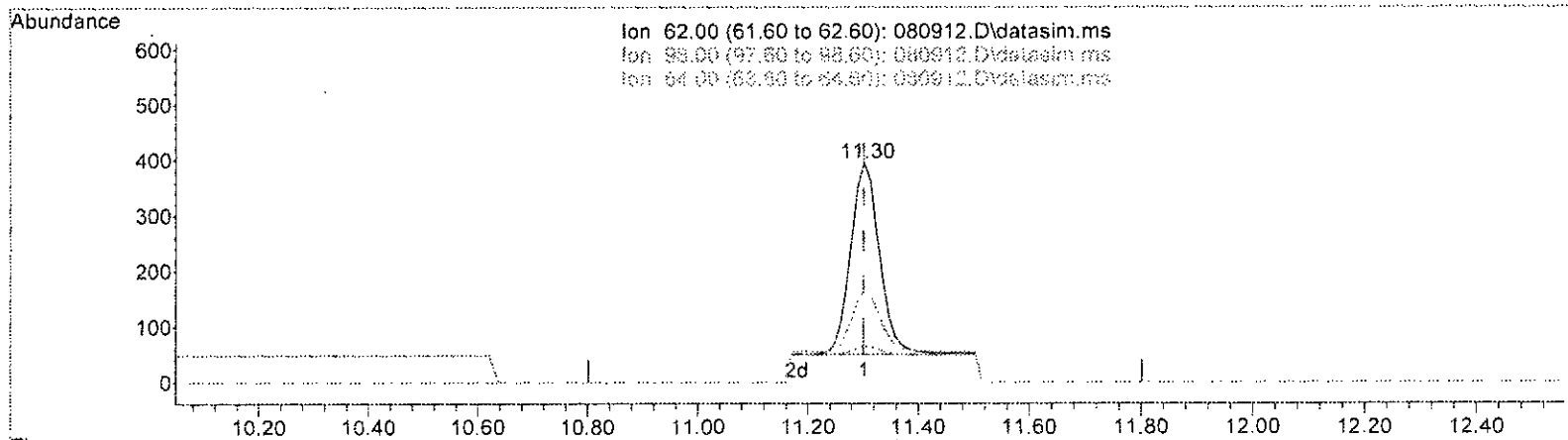
(34) 1,2-Dichloroethane (EDC) (TMP)			
11.302min (+ 0.000)		0.383 ppbv	
response	2087		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	16.50	
64.00	33.00	41.37	
0.00	0.00	0.00	

NO 8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.228 ppbv m

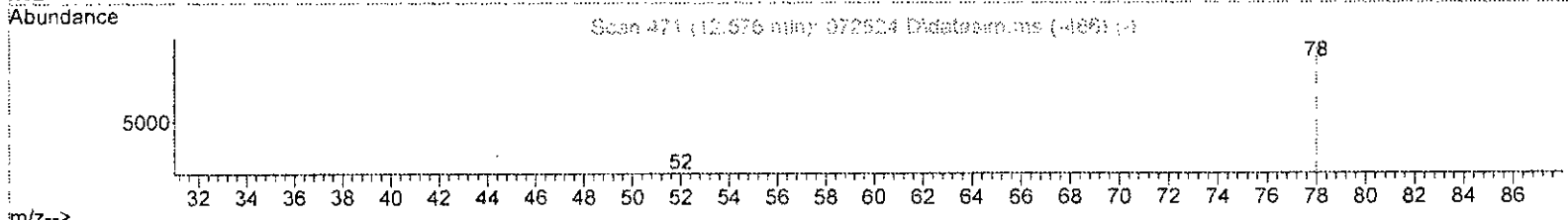
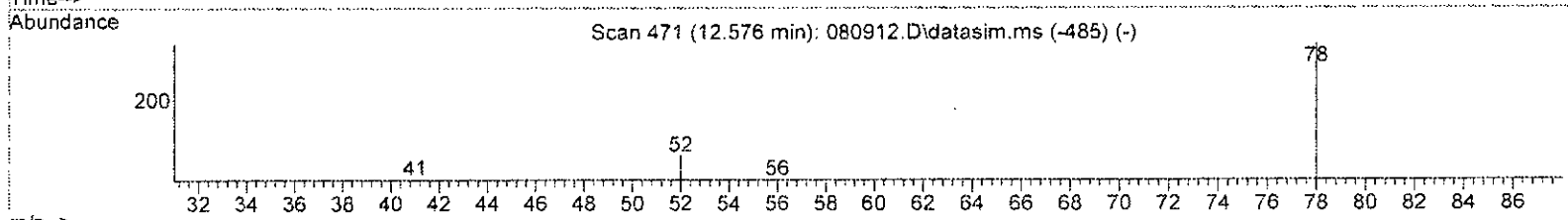
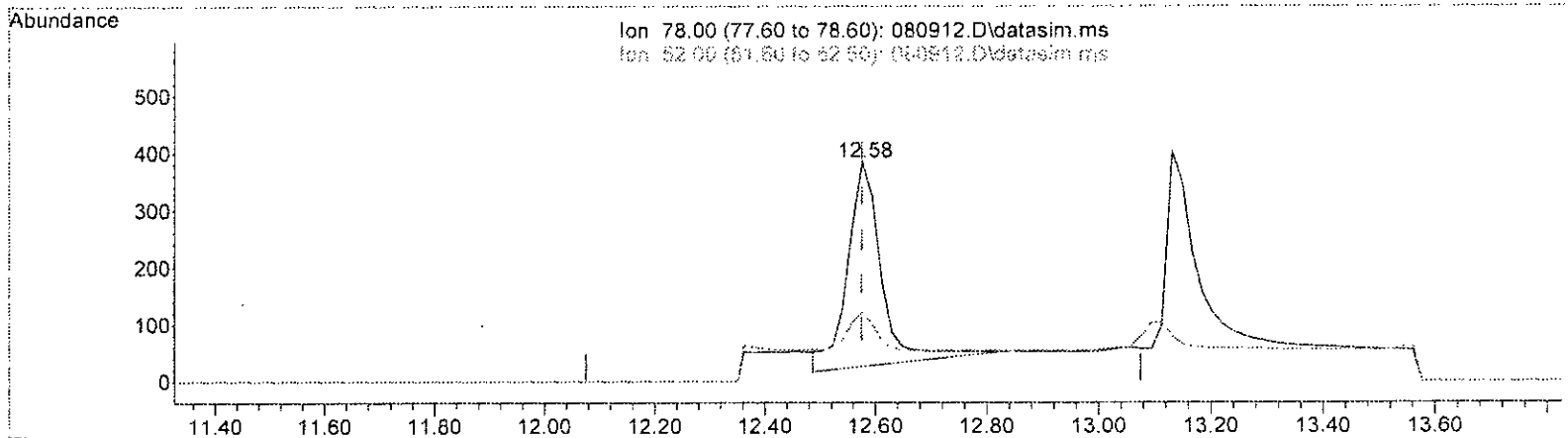
response	1244
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 16.50
64.00	33.00 41.37
0.00	0.00 0.00

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

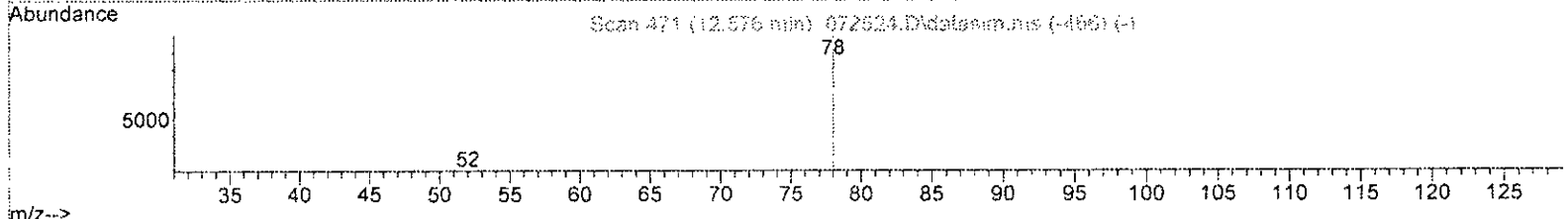
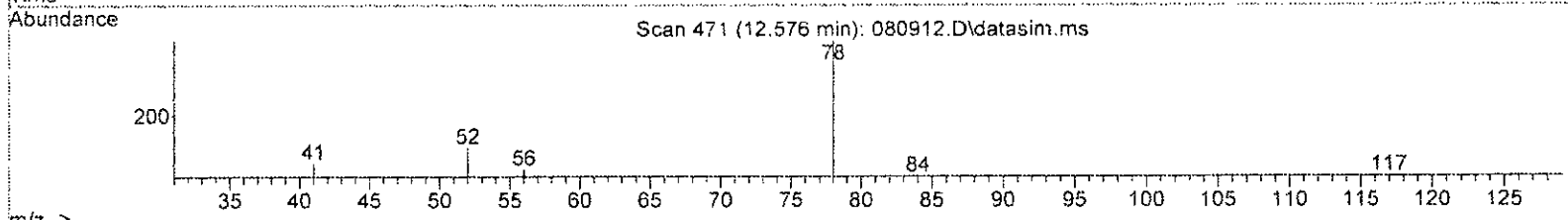
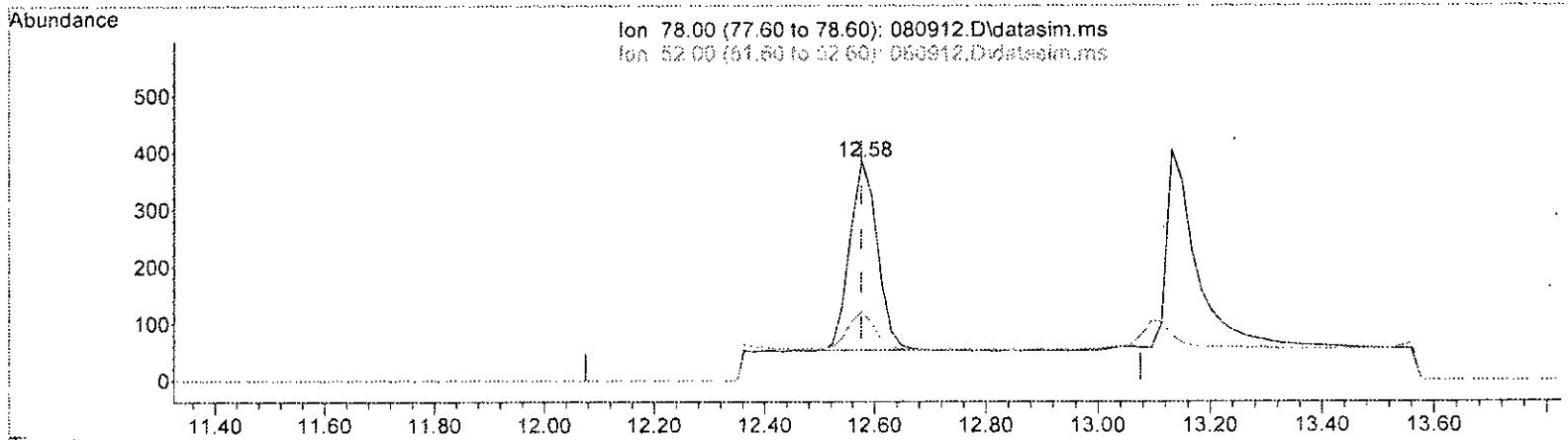
(37) Benzene (TMP)		
12.576min (+ 0.000)		0.141 ppbv
response	1522	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	19.88
0.00	0.00	0.00
0.00	0.00	0.00

*NO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

(37) Benzene (TMP)		
12.576min (+ 0.000)	0.106 ppbv m	
response	1147	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	31.25
0.00	0.00	0.00
0.00	0.00	0.00

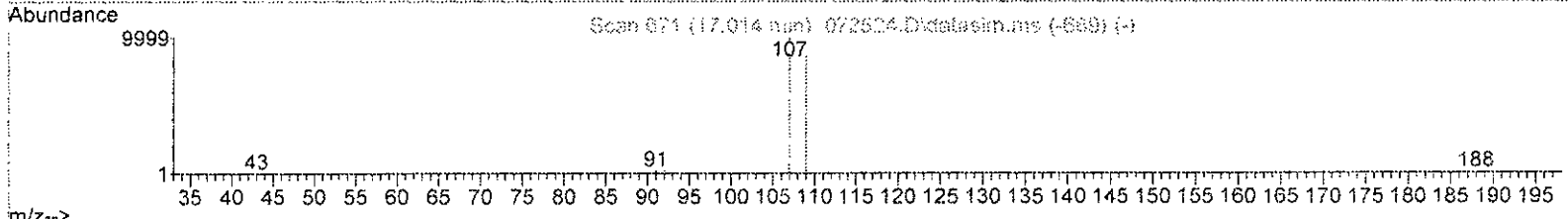
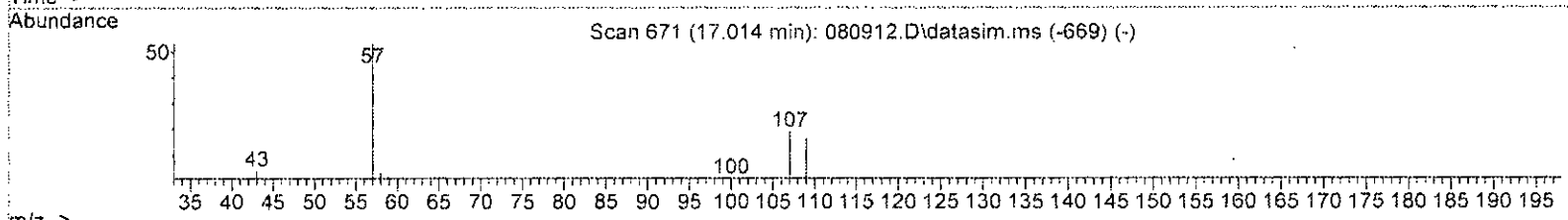
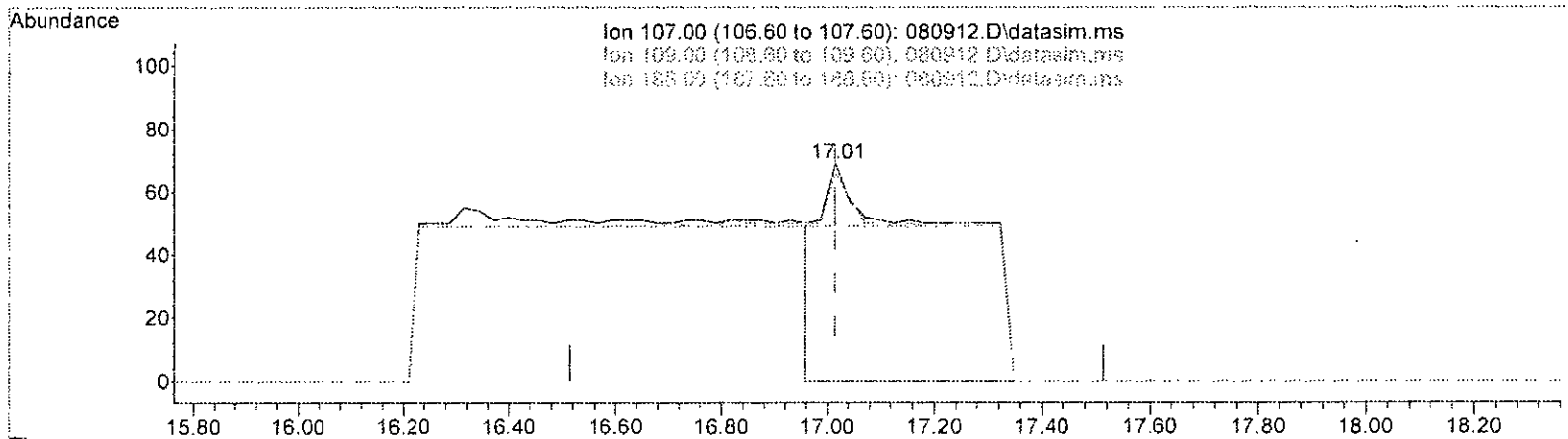
*NO 8/10/23*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

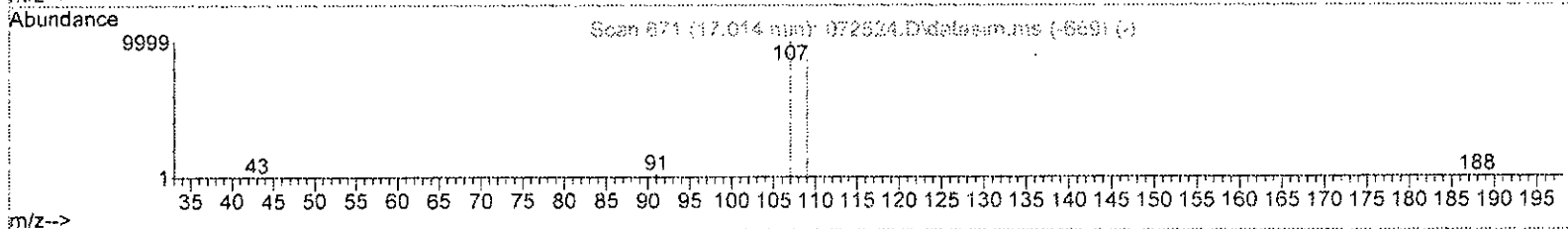
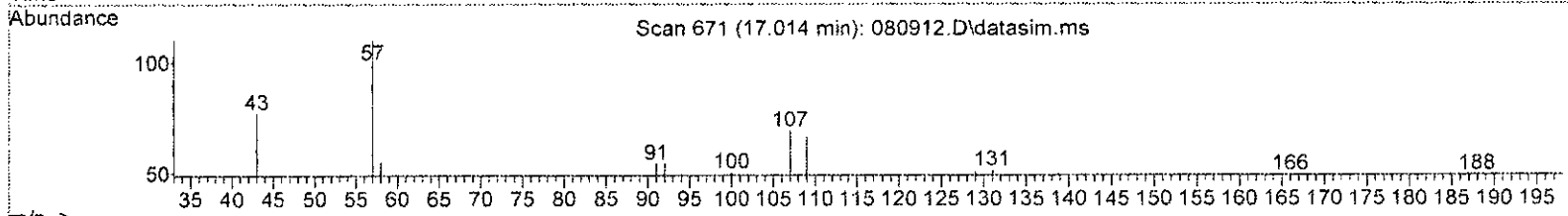
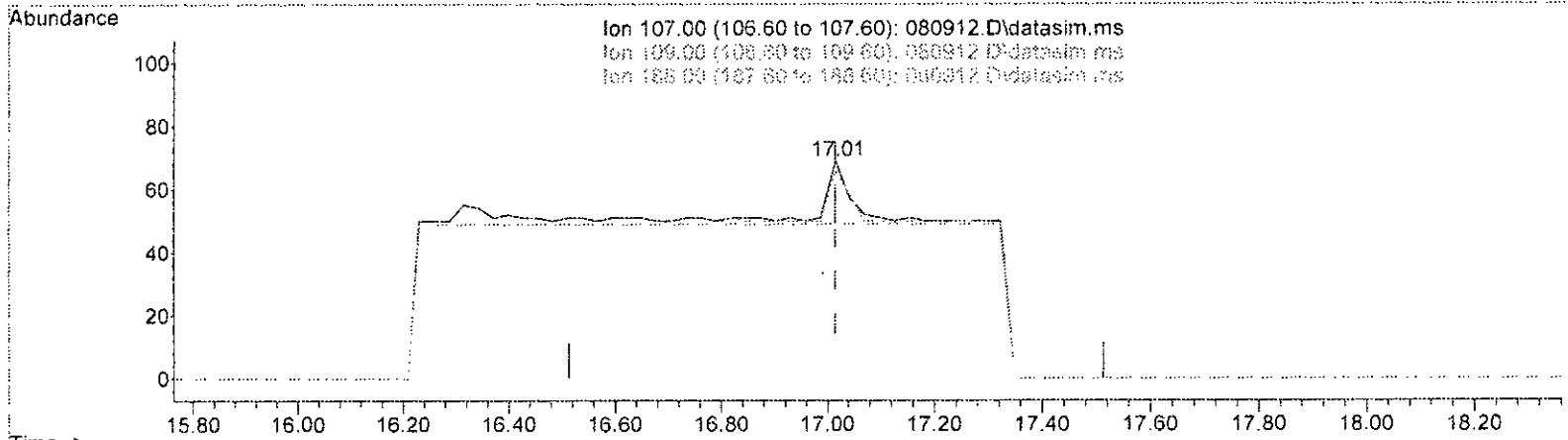
(55)	1,2-Dibromoethane (EDB) (TMP)	
17.014min (+ 0.000)	0.158 ppbv	
response	1102	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	95.65
188.00	2.70	71.01#
0.00	0.00	0.00

MD  
6/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.014min (+ 0.000) 0.009 ppbv m

response 60

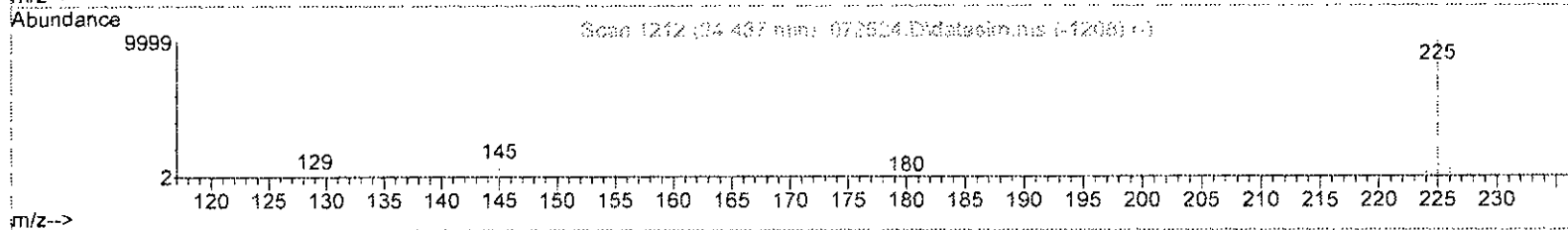
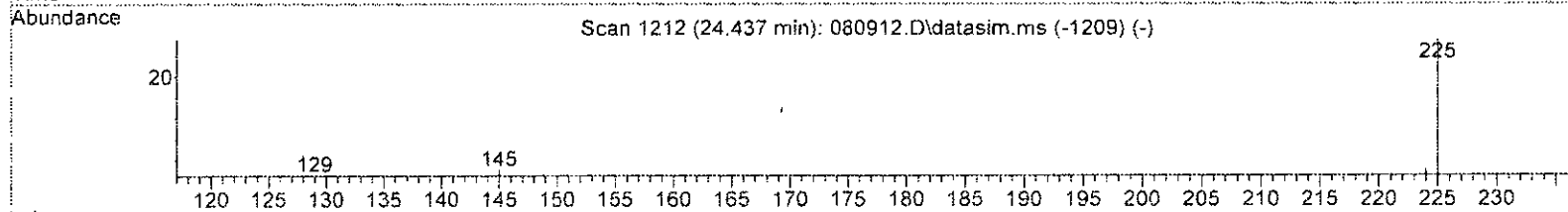
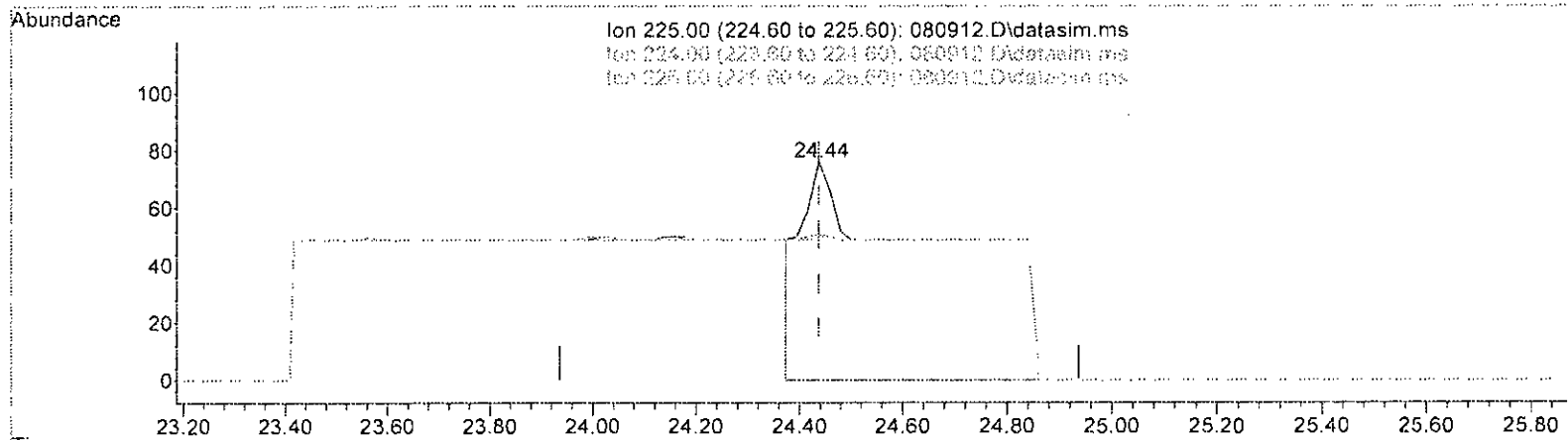
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	95.65
188.00	2.70	71.01#
0.00	0.00	0.00

*MD  
8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 -5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 080912.D\data.ms

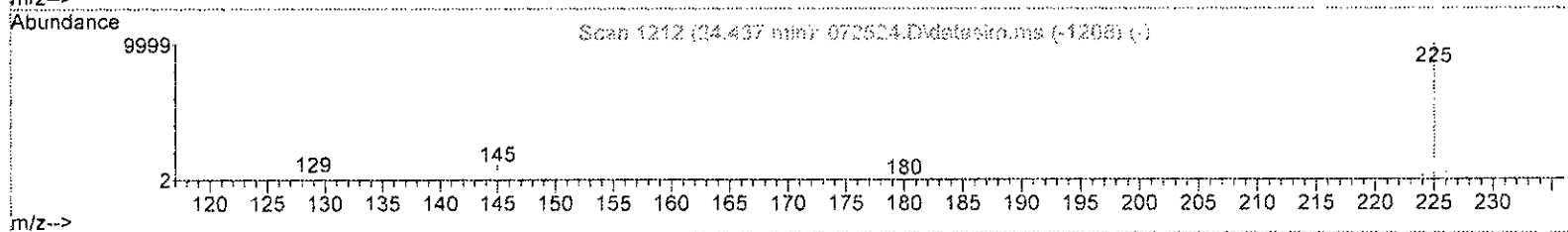
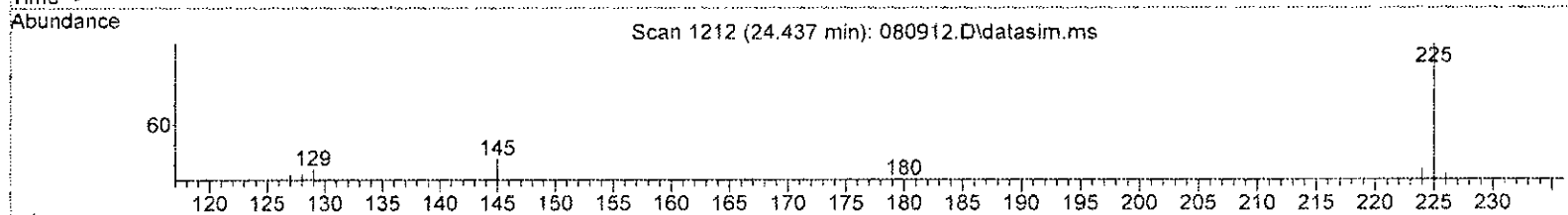
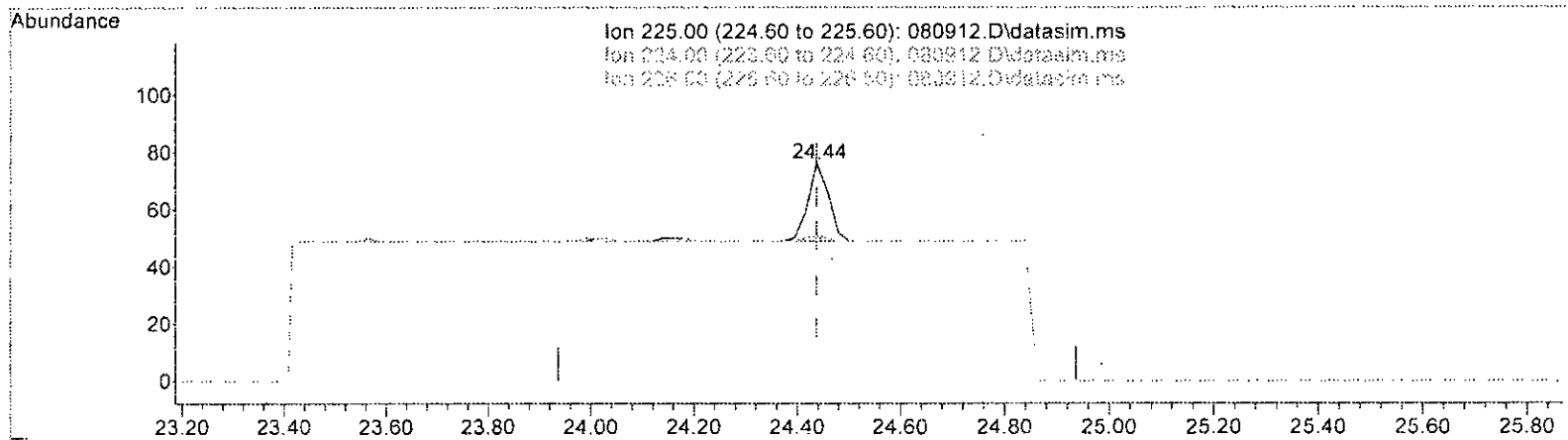
(78) Hexachlorobutadiene (TME)		
24.437min (-0.000)	0.248 ppbv	
response	1411	
Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	67.11#
226.00	5.20	65.79#
0.00	0.00	0.00

440  
 8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080912.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.437min (-0.000) 0.013 ppbv m

response	74	
Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	67.11#
226.00	5.20	65.79#
0.00	0.00	0.00

*MD 8/10/23*

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

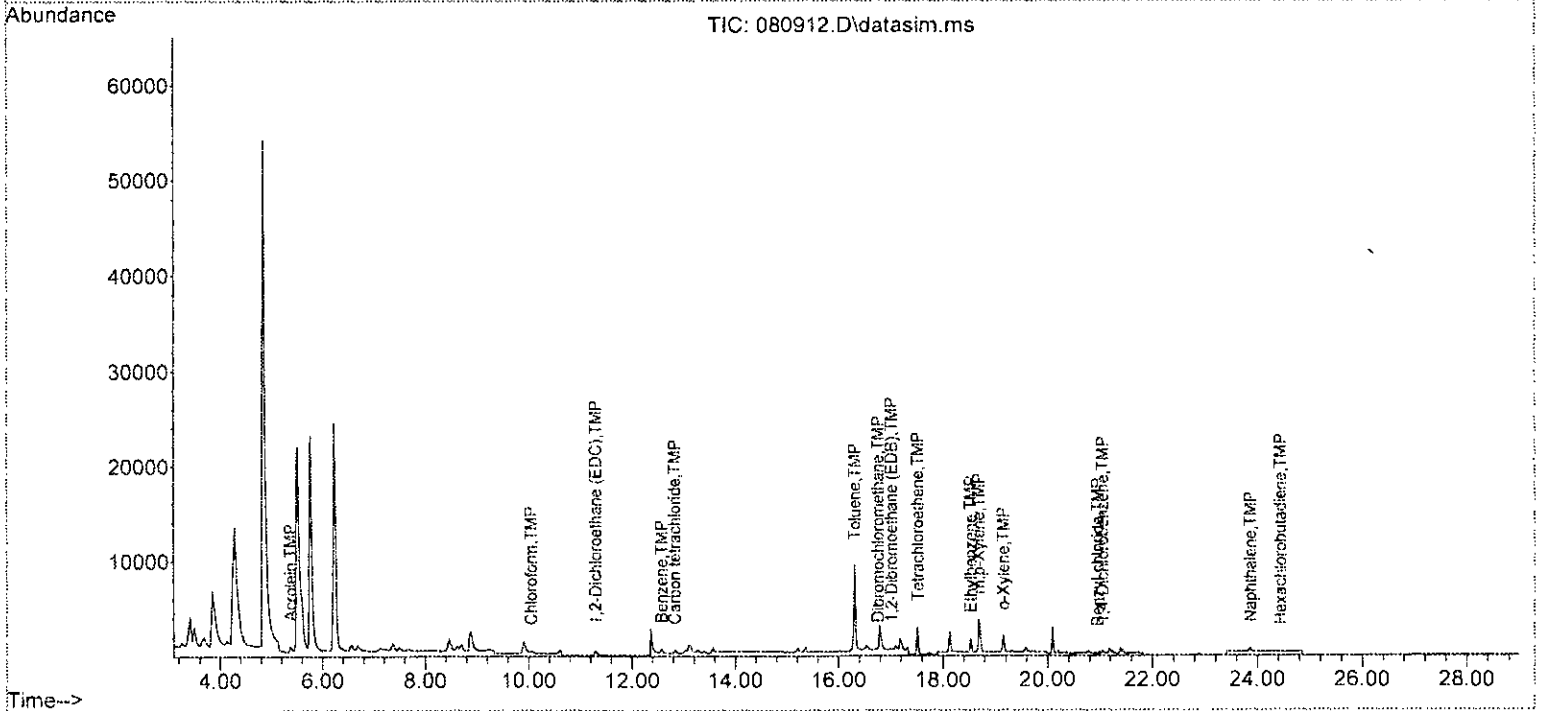
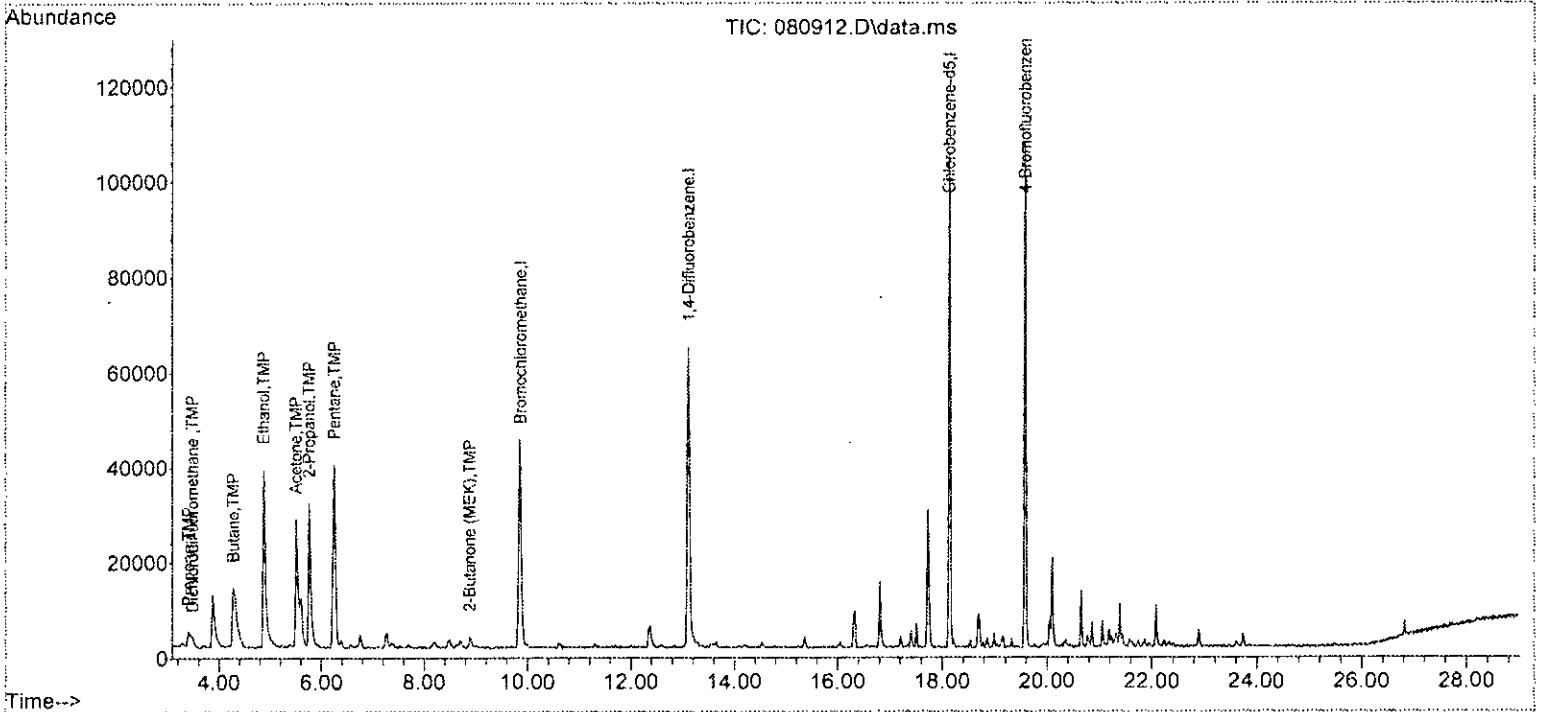
Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

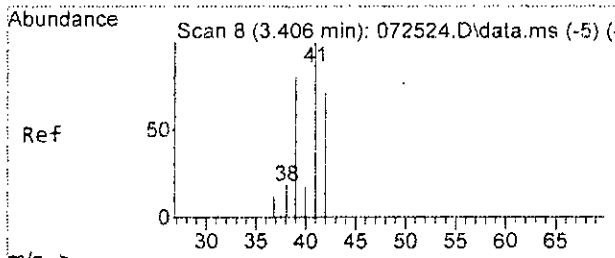
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Bromochloromethane	9.86	128	19225	10.000	ppbv	0.00	
39) 1,4-Difluorobenzene	13.11	114	76375	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	68518	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	46793	9.216	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	92.20%		
Target Compounds							
							Qvalue
2) Propene	3.41	41	2053	0.875	ppbv		71
3) Dichlorodifluoromethane	3.49	85	3867	0.409	ppbv		81
8) Butane	4.28	43	39823	8.341	ppbv		94
12) Ethanol	4.88	45	73137	69.997	ppbv		89
13] Acrolein	5.38	56	1361m	0.971	ppbv		
14) Pentane	6.25	43	42068	7.707	ppbv		99
16) Acetone	5.51	58	18878	14.645	ppbv		97
17) 2-Propanol	5.76	45	67043	11.902	ppbv		98
30] Chloroform	10.05	83	502	0.062	ppbv		93
33) 2-Butanone (MEK)	8.88	72	812	0.707	ppbv		94
34] 1,2-Dichloroethane (EDC)	11.30	62	1244m	0.228	ppbv		
36] Carbon tetrachloride	12.83	117	498	0.073	ppbv		100
37] Benzene	12.58	78	1147m	0.106	ppbv		
50] Toluene	16.31	92	7331	1.262	ppbv		89
53] Tetrachloroethene	17.52	164	1631	0.474	ppbv		92
54] Dibromochloromethane	16.76	129	20	0.003	ppbv		96
55] 1,2-Dibromoethane (EDB)	17.01	107	60m	0.009	ppbv		
58] Ethylbenzene	18.53	91	2077	0.168	ppbv		100
65] m,p-Xylene	18.68	106	2390	0.574	ppbv		93
66] o-Xylene	19.15	106	837	0.221	ppbv		91
70] Benzyl chloride	20.95	91	87	0.014	ppbv		94
74] 1,4-Dichlorobenzene	21.05	146	207	0.034	ppbv		87
77] Naphthalene	23.86	128	684	0.096	ppbv		99
78] Hexachlorobutadiene	24.44	225	74m	0.013	ppbv		
-----							

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

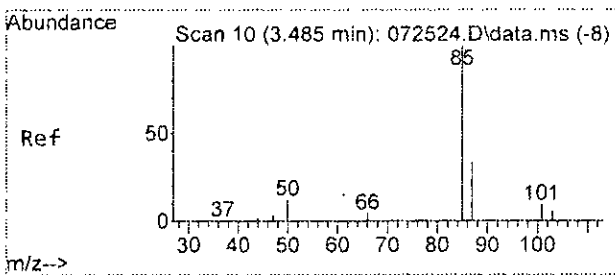
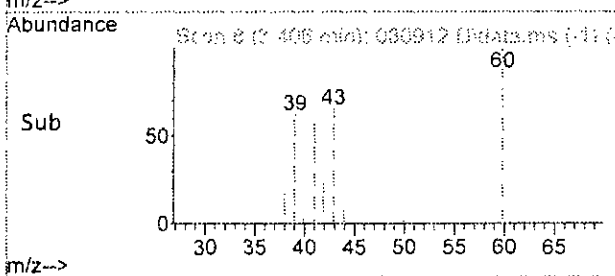
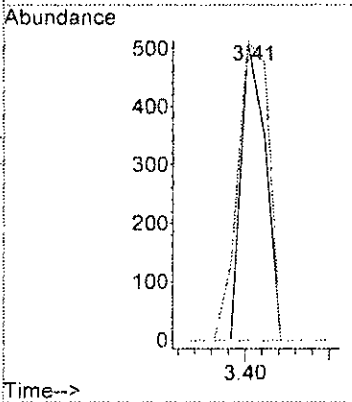
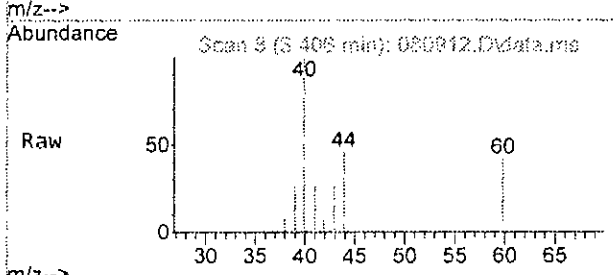
Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M





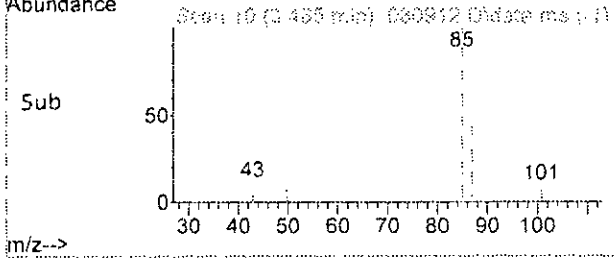
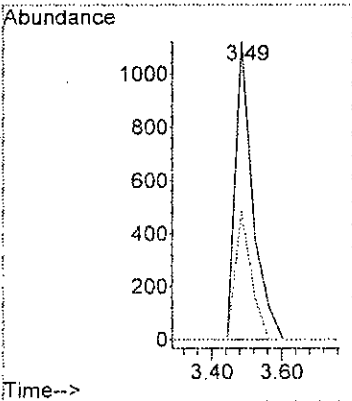
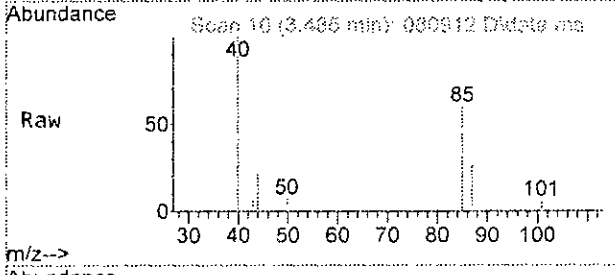
#2  
 Propene  
 Concen: 0.875 ppbv  
 RT: 3.41 min Scan# 8  
 Delta R.T. -0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

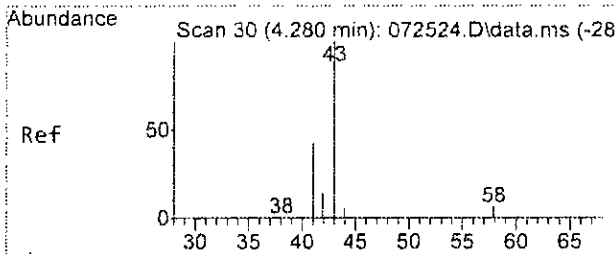
Tgt Ion	Resp	Lower	Upper
41	100		
39	100.2	45.6	105.6
27	0.0	0.0	30.0



#3  
 Dichlorodifluoromethane  
 Concen: 0.409 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

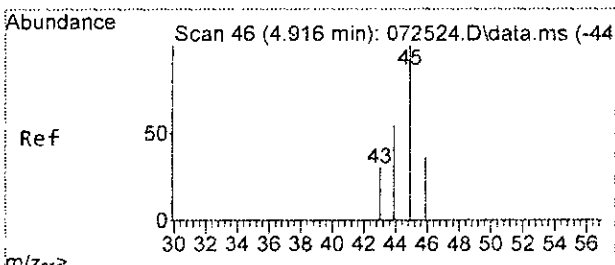
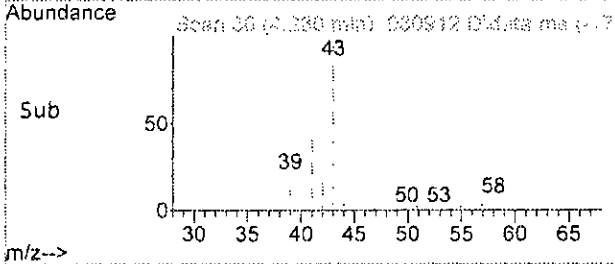
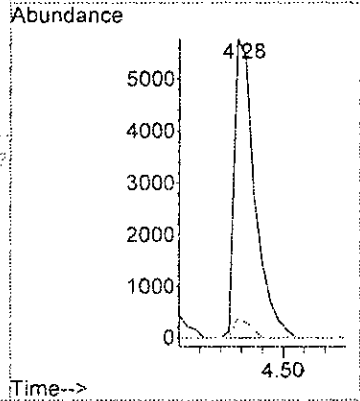
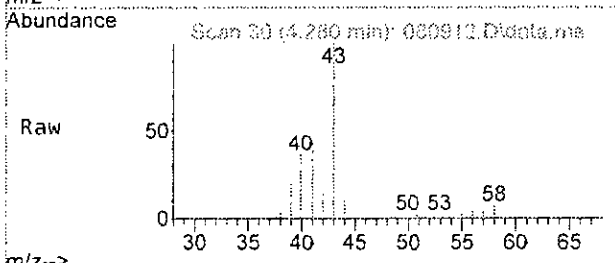
Tgt Ion	Resp	Lower	Upper
85	100		
87	43.1	2.2	62.2





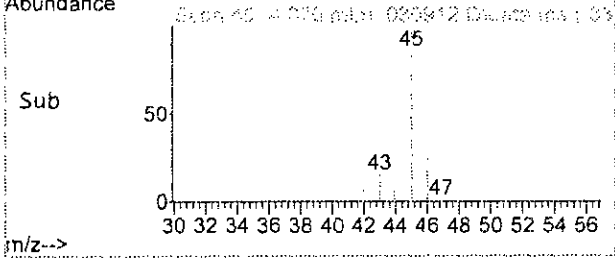
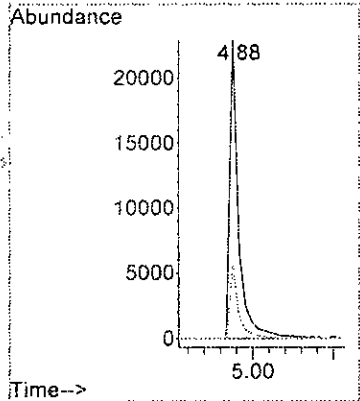
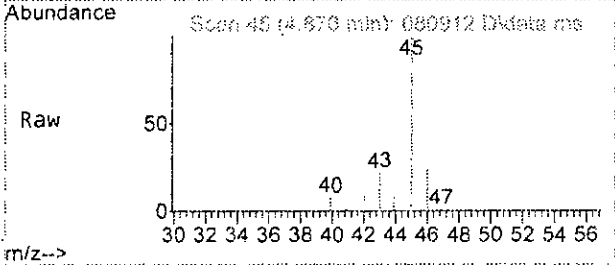
#8  
 Butane  
 Concen: 8.341 ppbv  
 RT: 4.28 min Scan# 30  
 Delta R.T. -0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	5.0	0.0	36.9

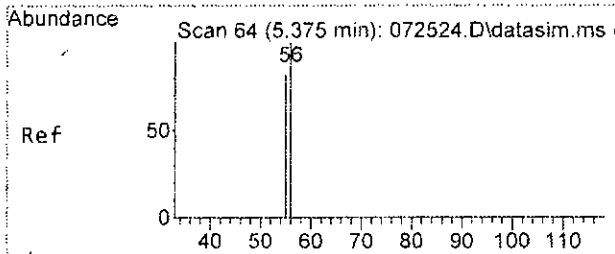


#12  
 Ethanol  
 Concen: 69.997 ppbv  
 RT: 4.88 min Scan# 45  
 Delta R.T. -0.040 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

Tgt Ion	Resp	Lower	Upper
45	100		
46	30.9	0.0	55.5

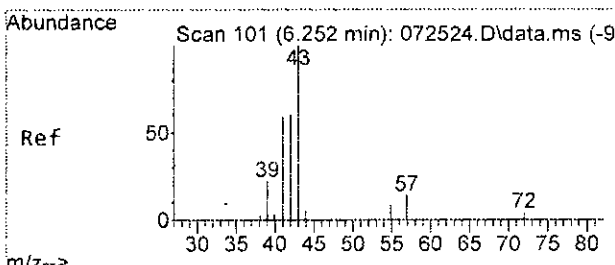
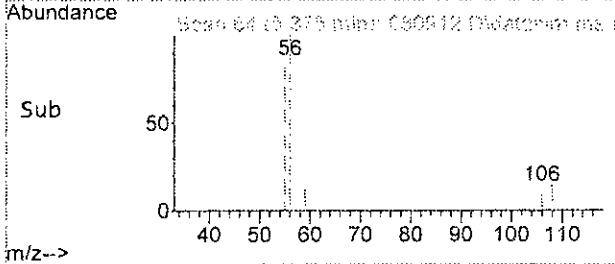
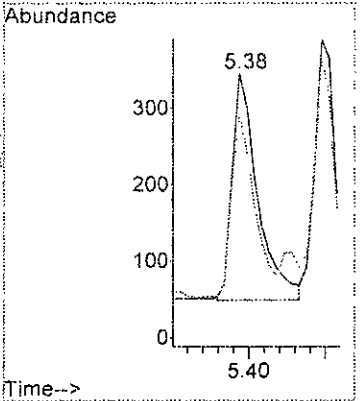
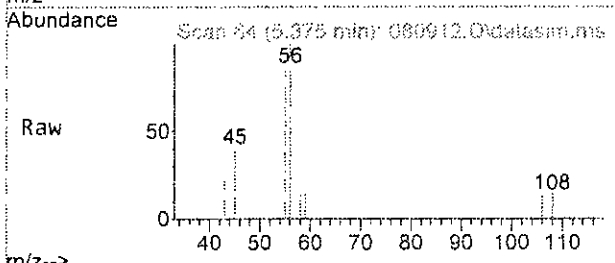






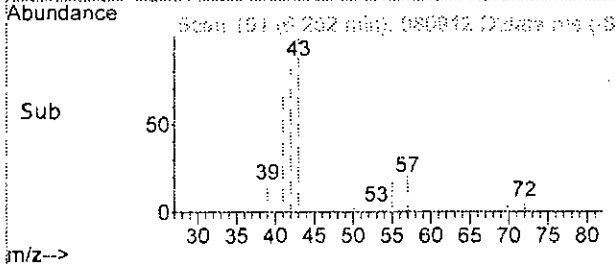
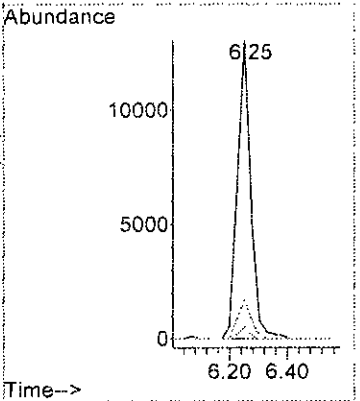
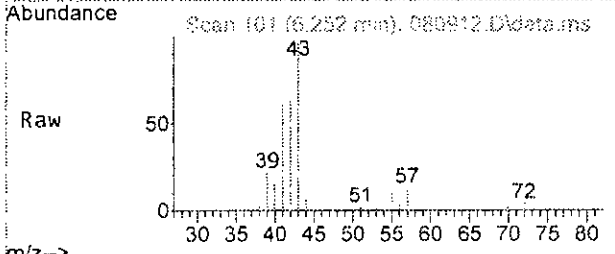
#13  
 Acrolein  
 Concen: 0.971 ppbv m  
 RT: 5.38 min Scan# 64  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

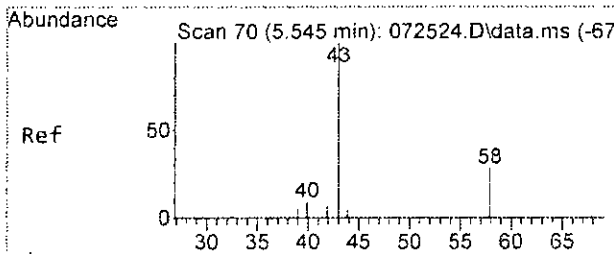
Tgt Ion	Resp	Lower	Upper
56	100		
55	95.2	51.0	111.0



#14  
 Pentane  
 Concen: 7.707 ppbv  
 RT: 6.25 min Scan# 101  
 Delta R.T. -0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

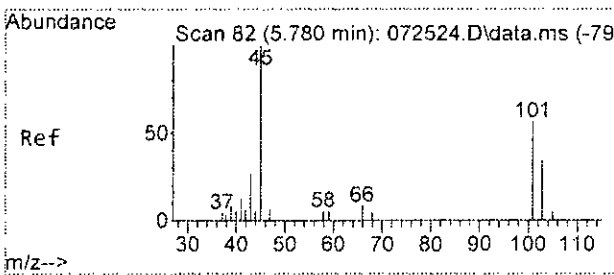
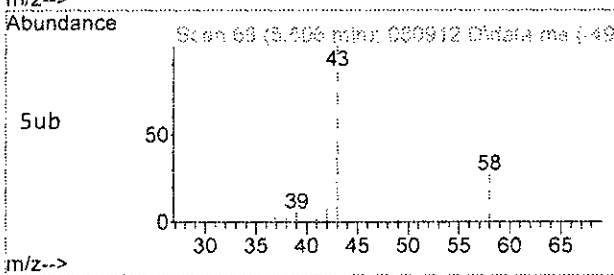
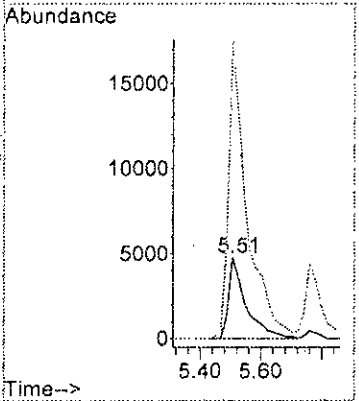
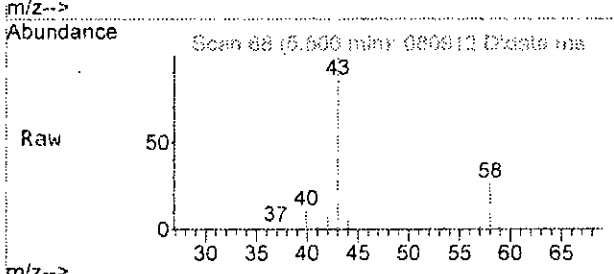
Tgt Ion	Resp	Lower	Upper
43	100		
57	13.0	0.0	43.5
72	3.8	0.0	34.2





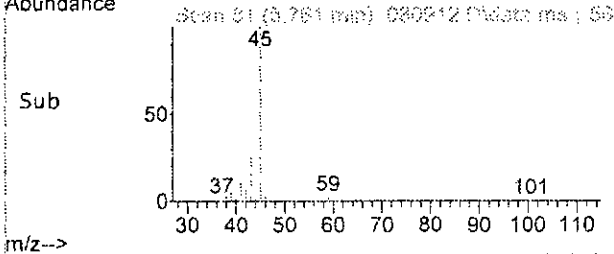
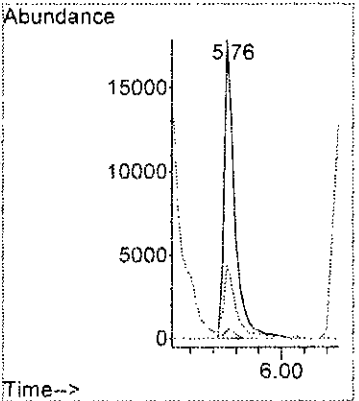
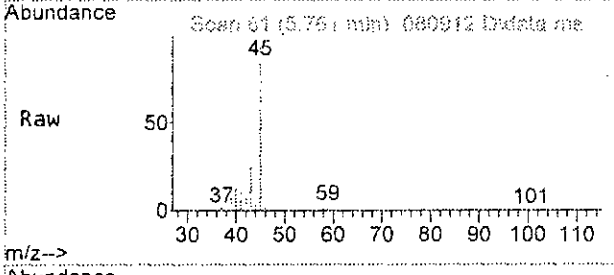
#16  
 Acetone  
 Concen: 14.645 ppbv  
 RT: 5.51 min Scan# 68  
 Delta R.T. -0.039 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

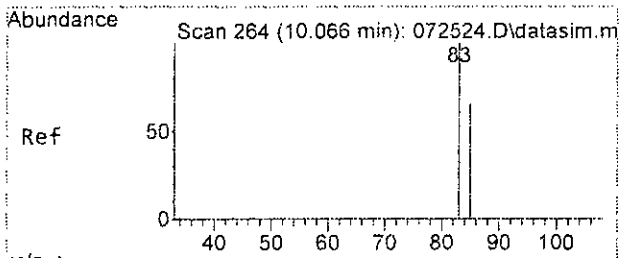
Tgt Ion	Resp	Lower	Upper
58	100		
43	367.0	329.3	389.3



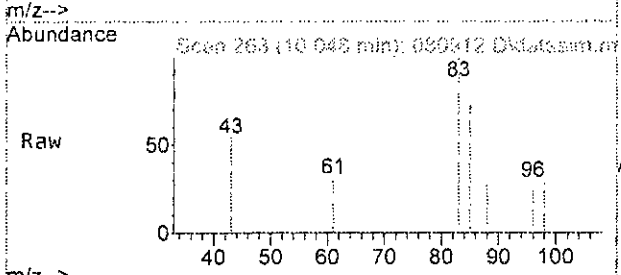
#17  
 2-Propanol  
 Concen: 11.902 ppbv  
 RT: 5.76 min Scan# 81  
 Delta R.T. -0.019 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

Tgt Ion	Resp	Lower	Upper
45	100		
43	24.2	0.0	30.0
59	2.9	0.0	33.6

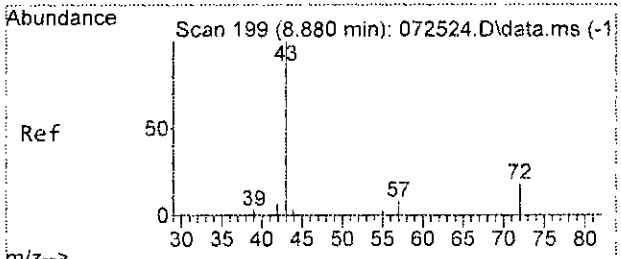
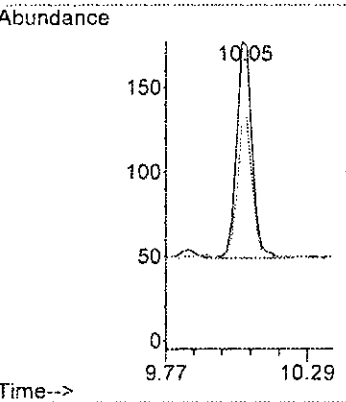
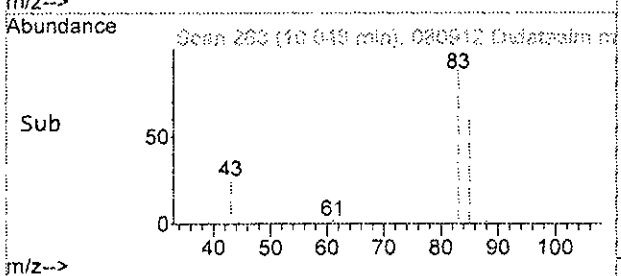




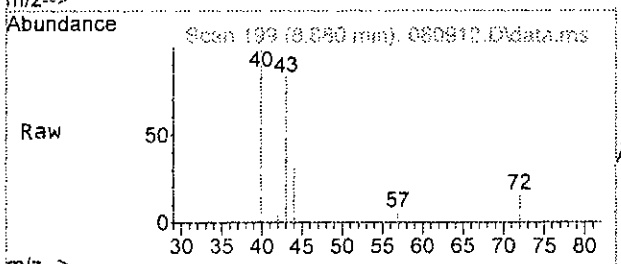
#30  
 Chloroform  
 Concen: 0.062 ppbv  
 RT: 10.05 min Scan# 263  
 Delta R.T. -0.018 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm



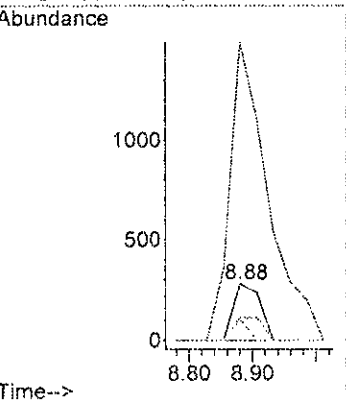
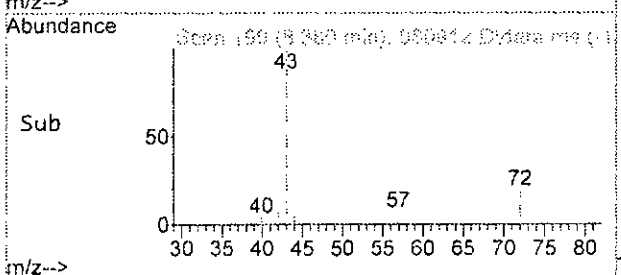
Tgt Ion: 83 Resp: 502  
 Ion Ratio Lower Upper  
 83 100  
 85 60.9 36.3 96.3

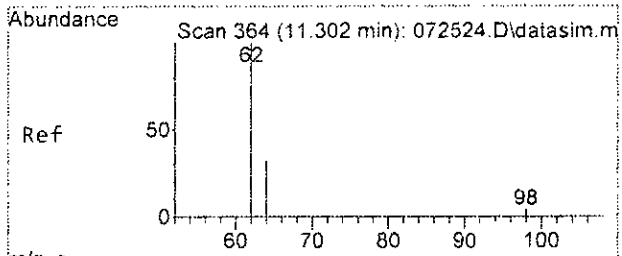


#33  
 2-Butanone (MEK)  
 Concen: 0.707 ppbv  
 RT: 8.88 min Scan# 199  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm



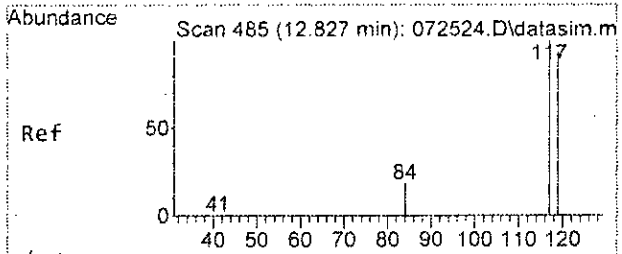
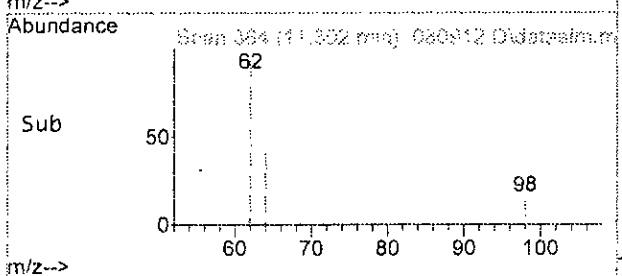
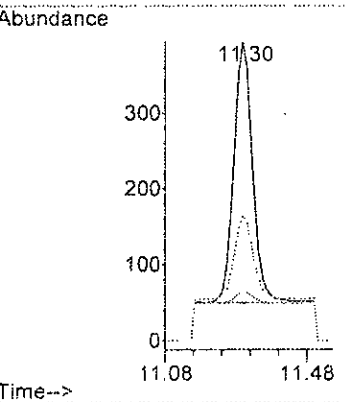
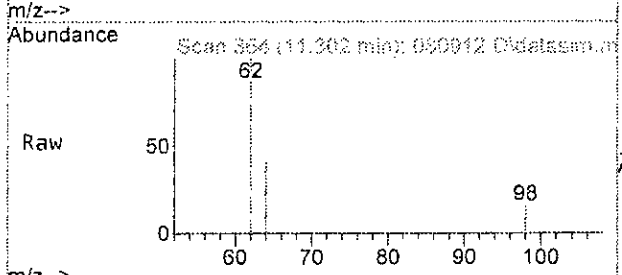
Tgt Ion: 72 Resp: 812  
 Ion Ratio Lower Upper  
 72 100  
 42 39.4 0.0 59.9  
 57 36.9 14.2 74.2  
 43 534.4 501.6 541.6





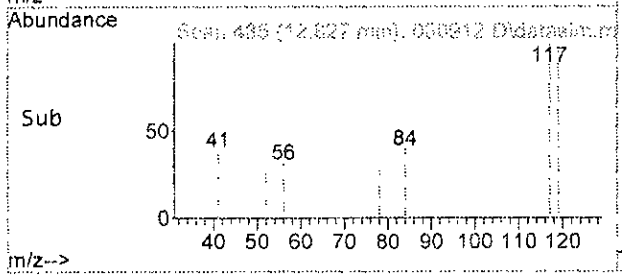
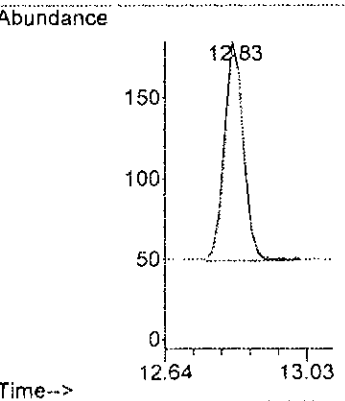
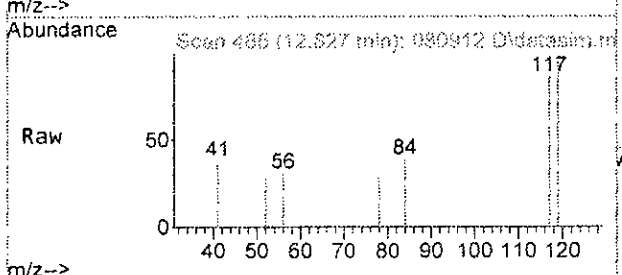
#34  
 1,2-Dichloroethane (EDC)  
 Concen: 0.228 ppbv m  
 RT: 11.30 min Scan# 364  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

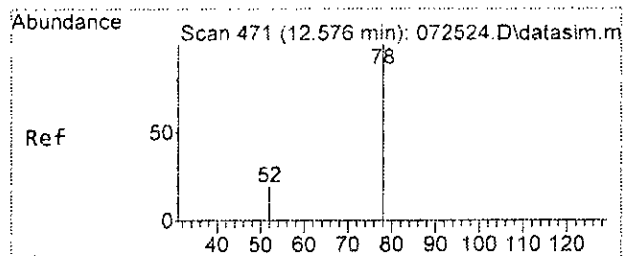
Tgt Ion	Resp	Lower	Upper
62	100		
98	16.5	0.0	35.3
64	41.4	3.0	63.0



#36  
 Carbon tetrachloride  
 Concen: 0.073 ppbv  
 RT: 12.83 min Scan# 485  
 Delta R.T. -0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

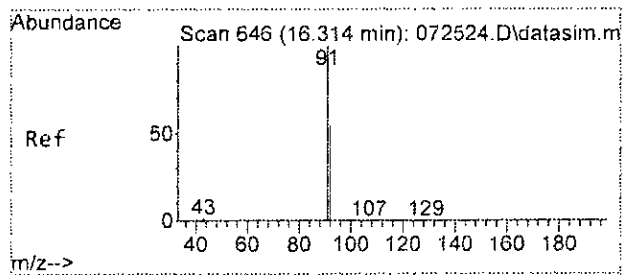
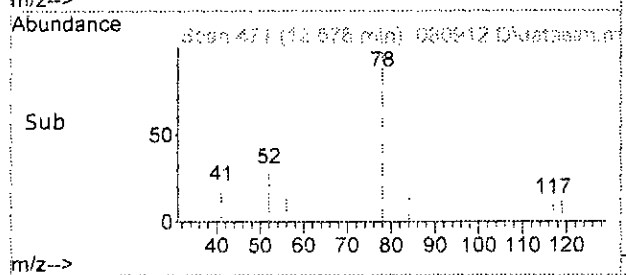
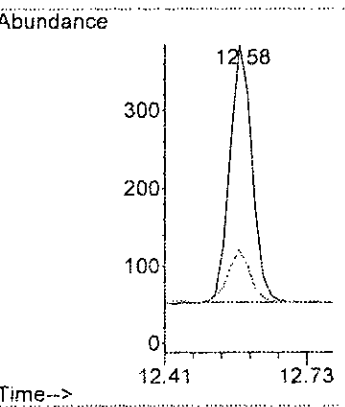
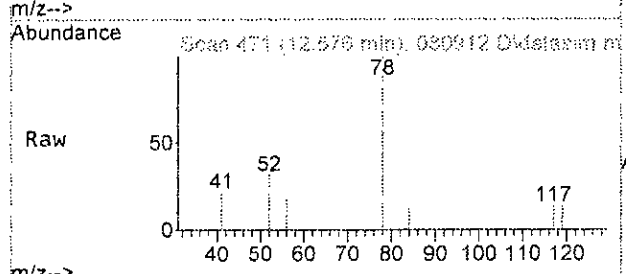
Tgt Ion	Resp	Lower	Upper
117	100		
119	94.1	64.6	124.6





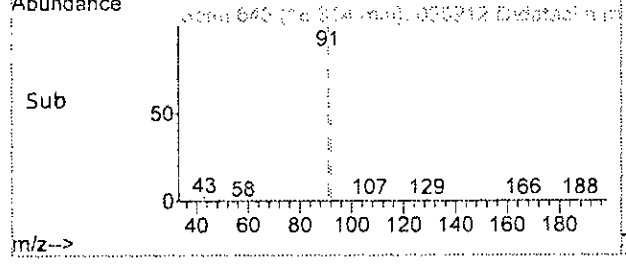
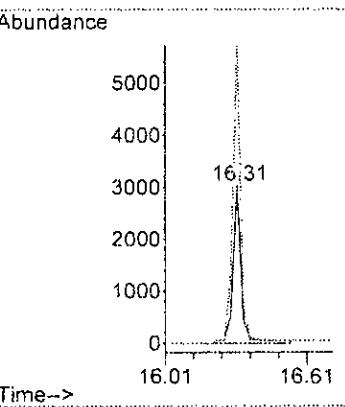
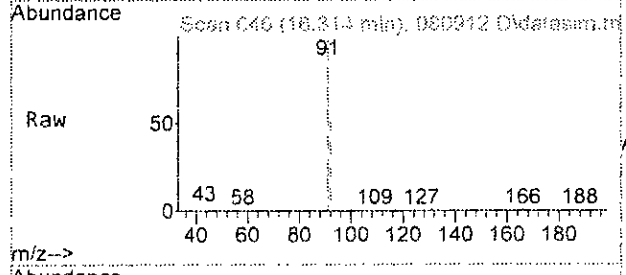
#37  
Benzene  
Concen: 0.106 ppbv m  
RT: 12.58 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: 080912.D  
Acq: 9 Aug 2023 5:32 pm

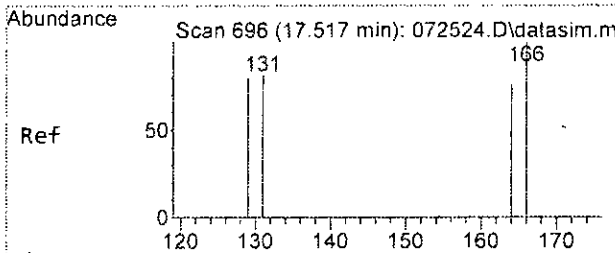
Tgt Ion: 78 Resp: 1147  
Ion Ratio Lower Upper  
78 100  
52 31.3 0.0 49.7



#50  
Toluene  
Concen: 1.262 ppbv  
RT: 16.31 min Scan# 646  
Delta R.T. 0.000 min  
Lab File: 080912.D  
Acq: 9 Aug 2023 5:32 pm

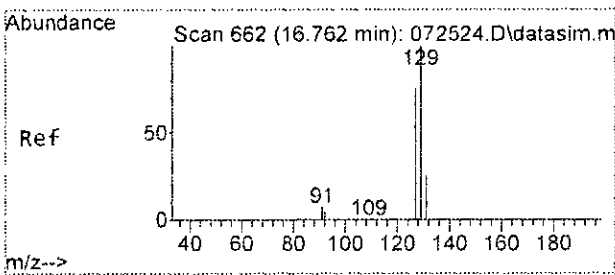
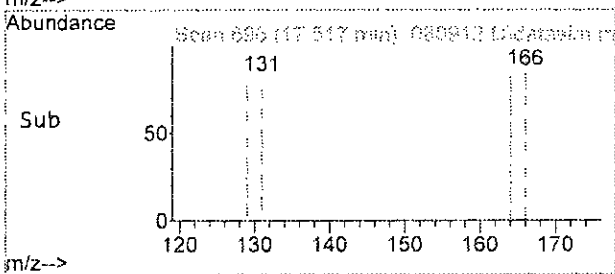
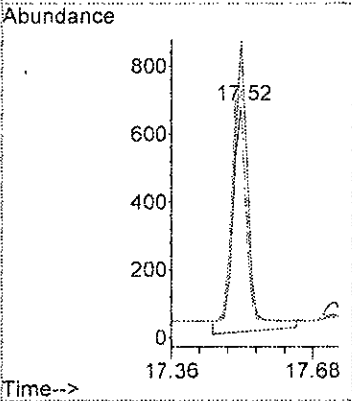
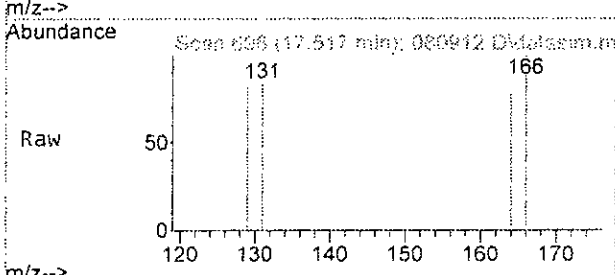
Tgt Ion: 92 Resp: 7331  
Ion Ratio Lower Upper  
92 100  
91 188.3 174.6 234.6





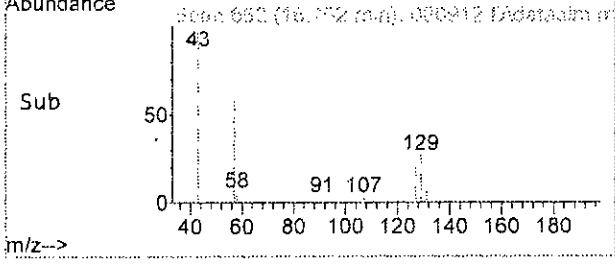
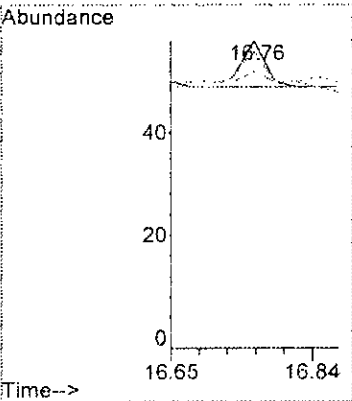
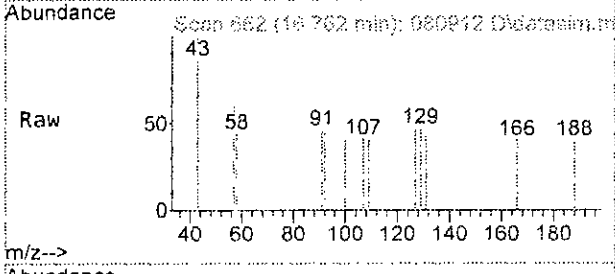
#53  
 Tetrachloroethene  
 Concen: 0.474 ppbv  
 RT: 17.52 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

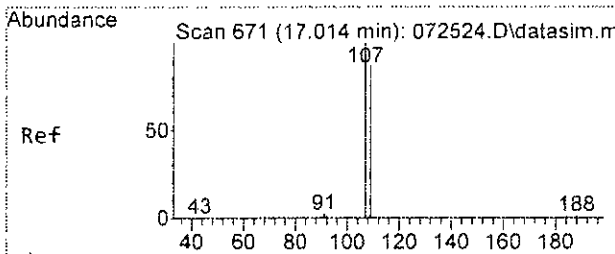
Tgt Ion	Resp	Lower	Upper
164	100		
129	104.1	63.2	123.2
131	107.9	70.7	130.7
166	130.2	107.5	167.5



#54  
 Dibromochloromethane  
 Concen: 0.003 ppbv  
 RT: 16.76 min Scan# 662  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

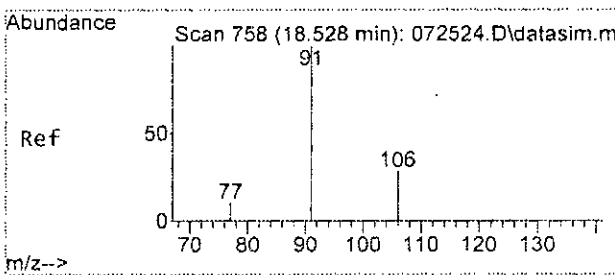
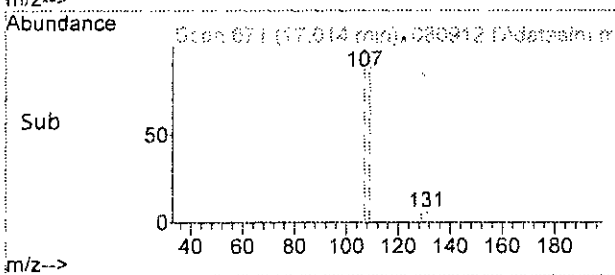
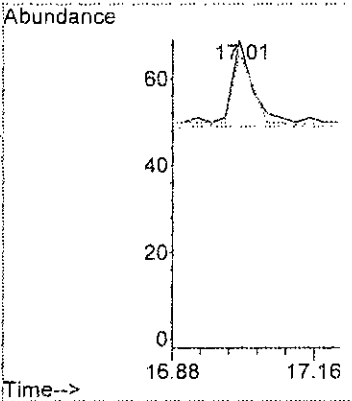
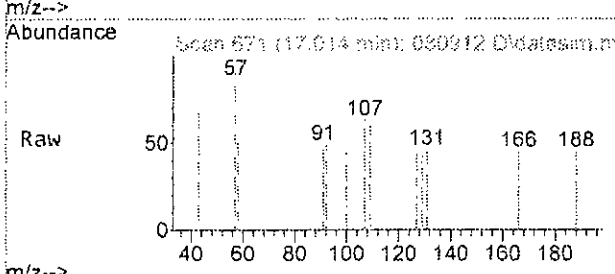
Tgt Ion	Resp	Lower	Upper
129	100		
127	77.8	51.9	111.9
131	22.2	0.0	52.3





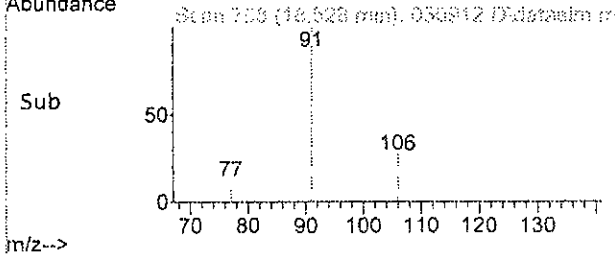
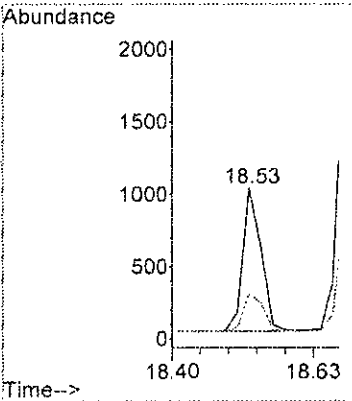
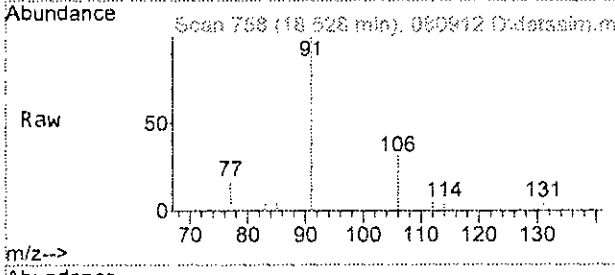
#55  
 1,2-Dibromoethane (EDB)  
 Concen: 0.009 ppbv m  
 RT: 17.01 min Scan# 671  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

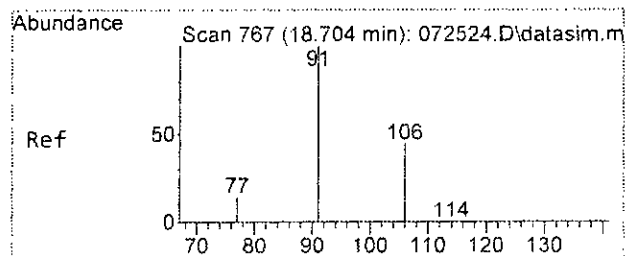
Tgt Ion	Resp	Lower	Upper
107	100		
109	95.7	74.6	134.6
188	71.0	0.0	32.7#



#58  
 Ethylbenzene  
 Concen: 0.168 ppbv  
 RT: 18.53 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

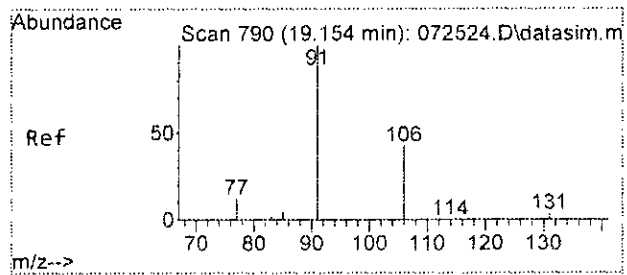
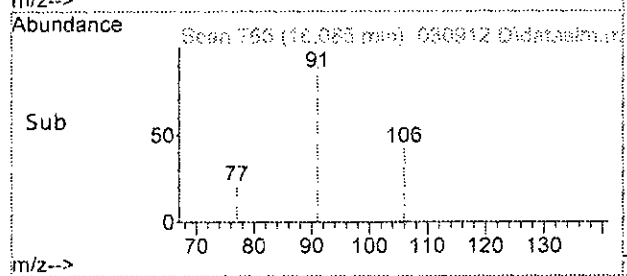
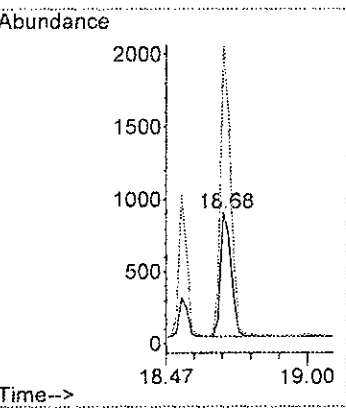
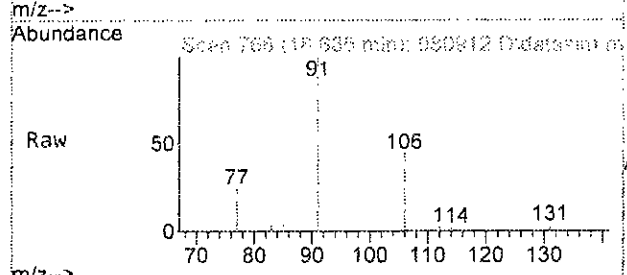
Tgt Ion	Resp	Lower	Upper
91	100		
106	27.2	0.0	57.0





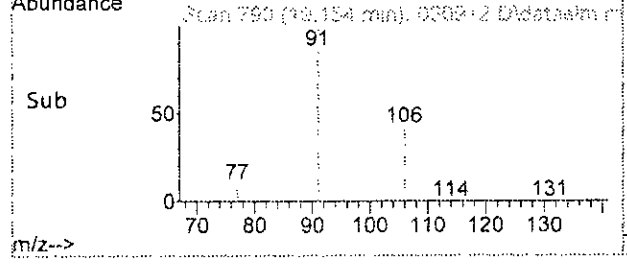
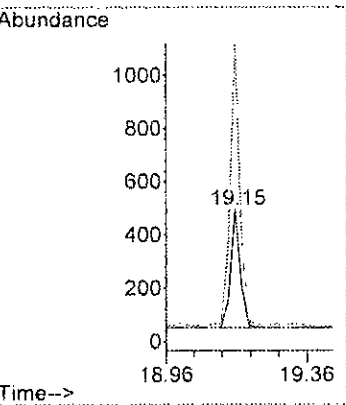
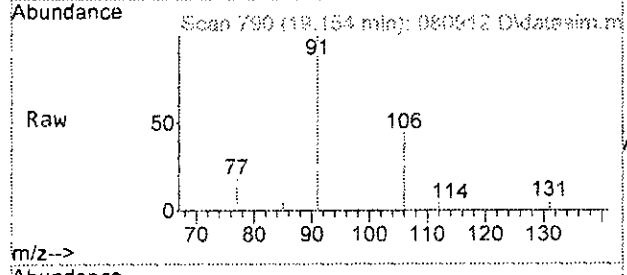
#65  
 m,p-Xylene  
 Concen: 0.574 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

Tgt Ion: 106 Resp: 2390  
 Ion Ratio Lower Upper  
 106 100  
 91 234.0 193.0 253.0

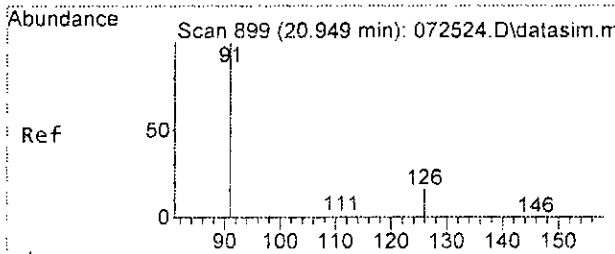


#66  
 o-Xylene  
 Concen: 0.221 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

Tgt Ion: 106 Resp: 837  
 Ion Ratio Lower Upper  
 106 100  
 91 239.3 194.4 254.4

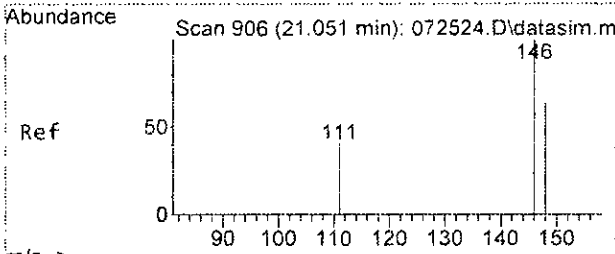
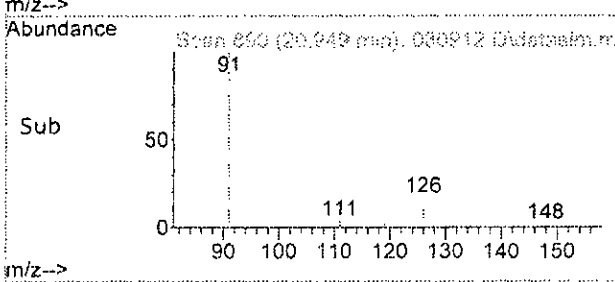
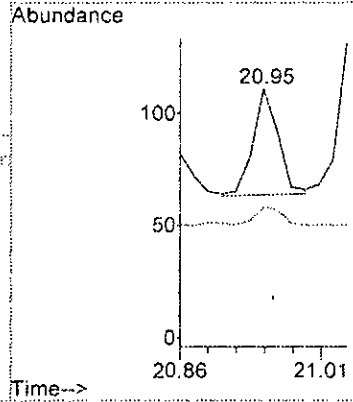
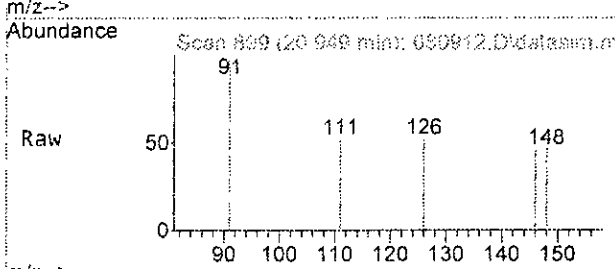






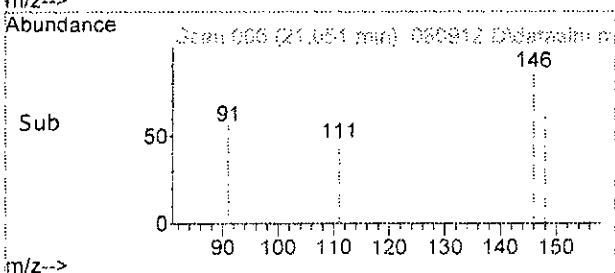
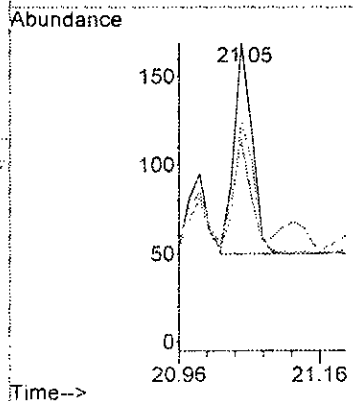
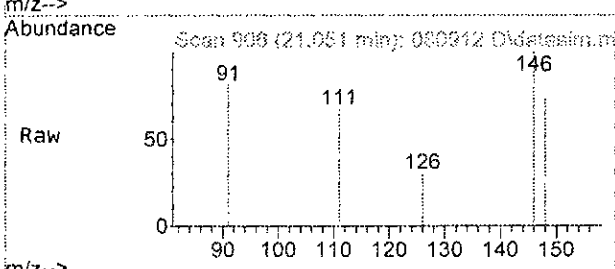
#70  
 Benzyl chloride  
 Concen: 0.014 ppbv  
 RT: 20.95 min Scan# 899  
 Delta R.T. 0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

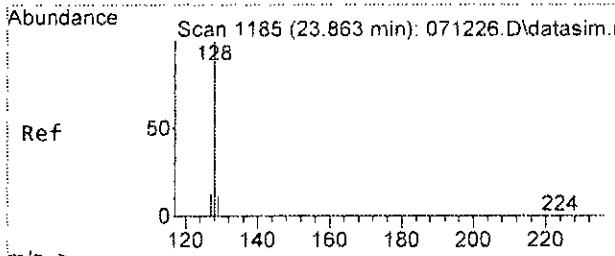
Tgt Ion: 91 Resp: 87  
 Ion Ratio Lower Upper  
 91 100  
 126 17.0 0.0 50.0



#74  
 1,4-Dichlorobenzene  
 Concen: 0.034 ppbv  
 RT: 21.05 min Scan# 906  
 Delta R.T. -0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

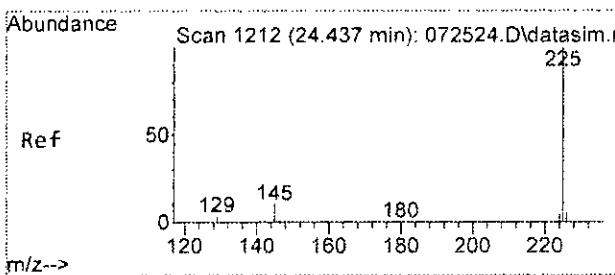
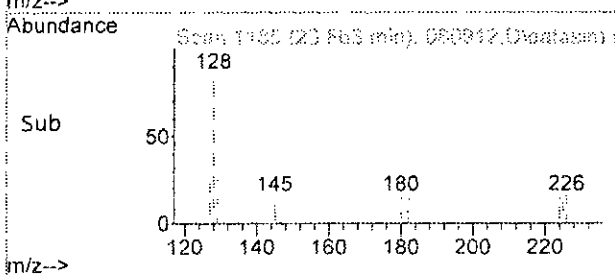
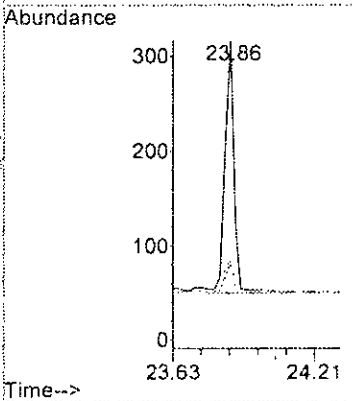
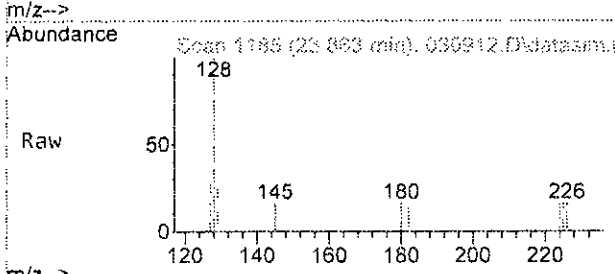
Tgt Ion: 146 Resp: 207  
 Ion Ratio Lower Upper  
 146 100  
 111 48.7 5.5 65.5  
 148 62.2 38.8 98.8





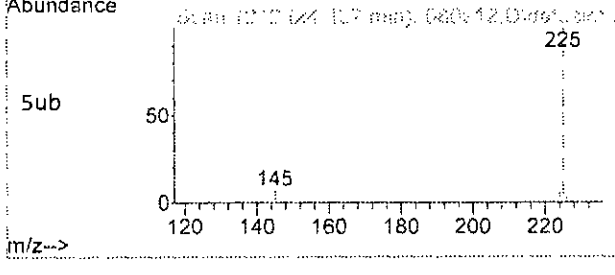
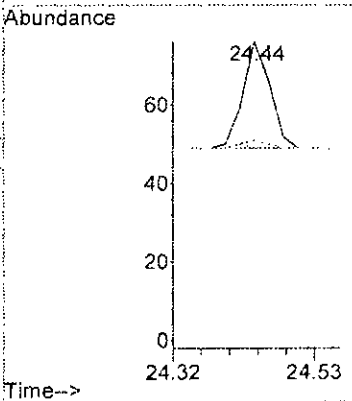
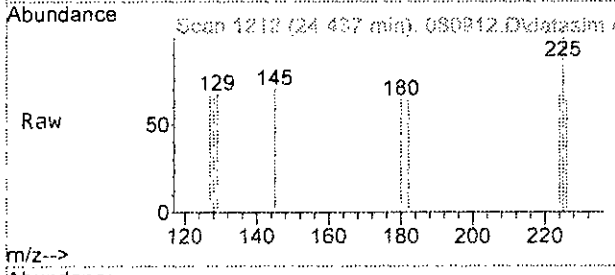
#77  
 Naphthalene  
 Concen: 0.096 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

Tgt Ion	Resp	Lower	Upper
128	100		
129	11.7	0.0	41.0
127	13.2	0.0	43.2



#78  
 Hexachlorobutadiene  
 Concen: 0.013 ppbv m  
 RT: 24.44 min Scan# 1212  
 Delta R.T. -0.000 min  
 Lab File: 080912.D  
 Acq: 9 Aug 2023 5:32 pm

Tgt Ion	Resp	Lower	Upper
225	100		
224	67.1	0.0	33.7#
226	65.8	0.0	35.2#



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	19225	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	76375	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	68518	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	46793	9.216	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.20%
Target Compounds						
					Qvalue	
2) Propene	3.41	41	2053	0.875	ppbv	71
3) Dichlorodifluoromethane	3.49	85	3867	0.409	ppbv	81
4) Chloromethane	3.69	50	1685	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	4.01	62	31	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	4.28	43	39823	8.341	ppbv	94
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.88	45	73137	69.997	ppbv	89
13] Acrolein	5.38	56	1361m	0.971	ppbv	
14) Pentane	6.25	43	42068	7.707	ppbv	99
15) Trichlorofluoromethane	5.82	101	1685	N.D.		
16) Acetone	5.51	58	18878	14.645	ppbv	97
17) 2-Propanol	5.76	45	67043	11.902	ppbv	98
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	8.07	96	28	N.D.		
20) Methylene chloride	6.75	84	1881	N.D.		
21) t-Butyl alcohol (TBA)	6.57	59	964	N.D.		
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	7.22	76	215	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	8.49	43	3661	N.D.		
27) 1,1-Dichloroethane	0.00		0	N.D.		
28) cis-1,2-Dichloroethene	0.00		0	N.D.		
29) Hexane	9.97	57	353	N.D.		
30] Chloroform	10.05	83	502	0.062	ppbv	93
31) Ethyl acetate	9.92	43	4216	N.D.		
32) Tetrahydrofuran	10.60	42	309	N.D.		
33) 2-Butanone (MEK)	8.88	72	812	0.707	ppbv	94
34] 1,2-Dichloroethane (EDC)	11.30	62	1244m	0.228	ppbv	
35) 1,1,1-Trichloroethane	11.51	97	297	N.D.		
36] Carbon tetrachloride	12.83	117	498	0.073	ppbv	100
37] Benzene	12.58	78	1147m	0.106	ppbv	
38) Cyclohexane	0.00		0	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

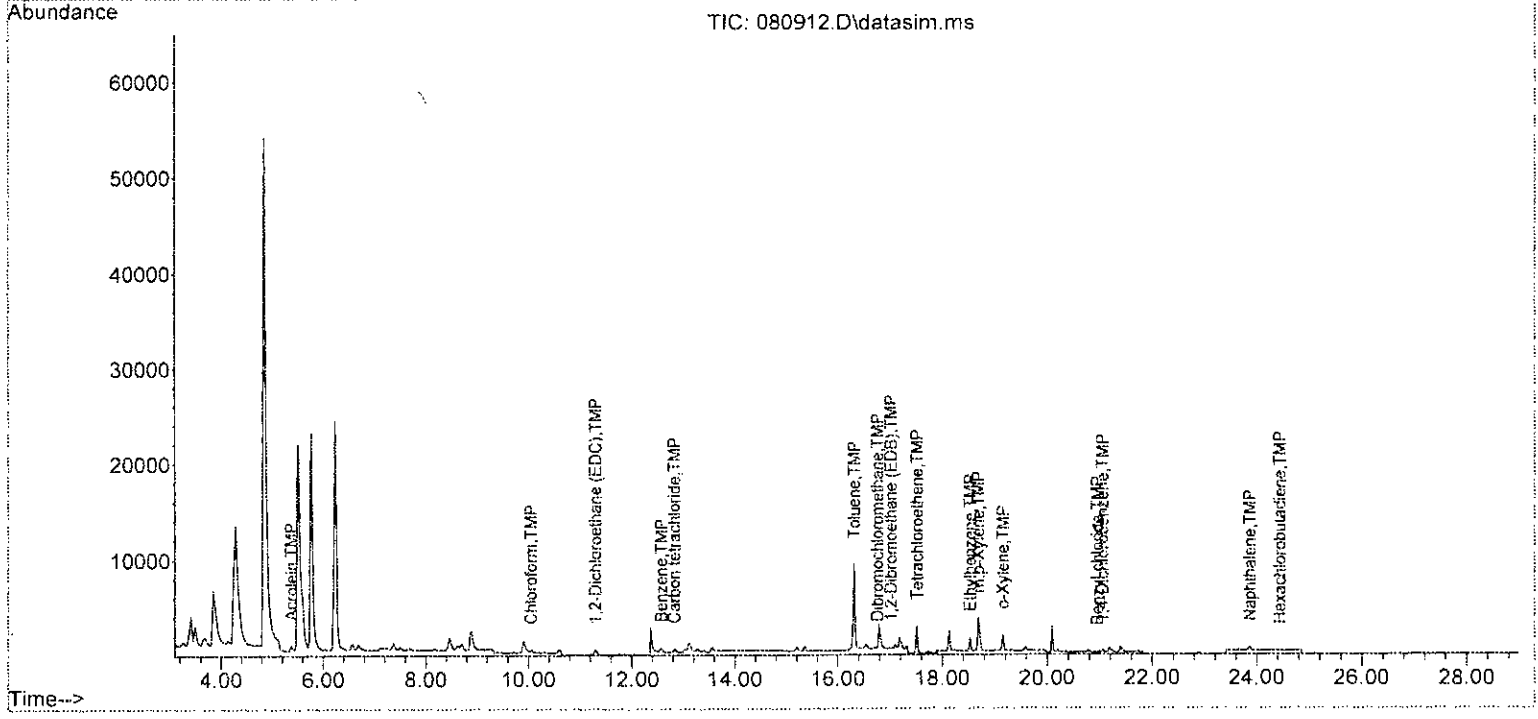
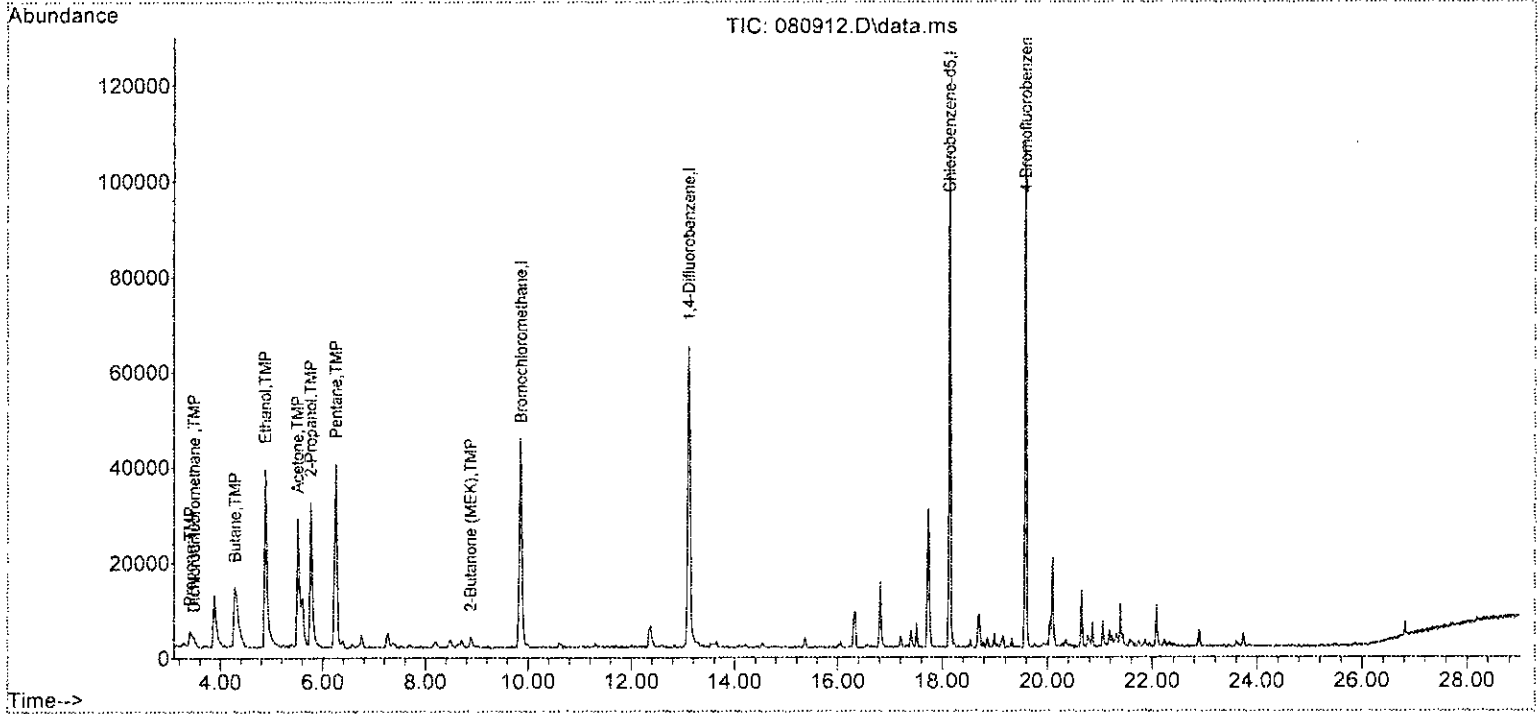
Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	14.14	88	35		N.D.	
42) 2,2,4-Trimethylpentane	14.21	57	310		N.D.	
43) Methyl methacrylate	14.21	41	446		N.D.	
44) Heptane	14.53	43	1005		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	14.12	95	38		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50] Toluene	16.31	92	7331	1.262	ppbv	89
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.56	43	1011		N.D.	
53] Tetrachloroethene	17.52	164	1631	0.474	ppbv	92
54] Dibromochloromethane	16.76	129	20	0.003	ppbv	96
55] 1,2-Dibromoethane (EDB)	17.01	107	60m	0.009	ppbv	
57) Chlorobenzene	0.00		0		N.D.	
58] Ethylbenzene	18.53	91	2077	0.168	ppbv	100
59) 1,1,2,2-Tetrachloroethane	18.98	83	42		N.D.	
60) Nonane	19.32	43	959		N.D.	
61) Isopropylbenzene	19.72	105	140		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	20.20	91	457		N.D.	
64) 4-Ethyltoluene	20.29	105	927		N.D.	
65] m,p-Xylene	18.68	106	2390	0.574	ppbv	93
66] o-Xylene	19.15	106	837	0.221	ppbv	91
67) Styrene	0.00		0		N.D. d	
68) Bromoform	0.00		0		N.D.	
70] Benzyl chloride	20.95	91	87	0.014	ppbv	94
71) 1,3,5-Trimethylbenzene	20.29	105	927		N.D.	
72) 1,2,4-Trimethylbenzene	20.81	105	790		N.D.	
73) 1,3-Dichlorobenzene	20.99	146	83		N.D.	
74] 1,4-Dichlorobenzene	21.05	146	207	0.034	ppbv	87
75) 1,2-Dichlorobenzene	21.41	146	91		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.86	128	684	0.096	ppbv	99
78] Hexachlorobutadiene	24.44	225	74m	0.013	ppbv	

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080912.D  
 Acq On : 9 Aug 2023 5:32 pm  
 Operator : bat  
 Sample : 308147-01  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

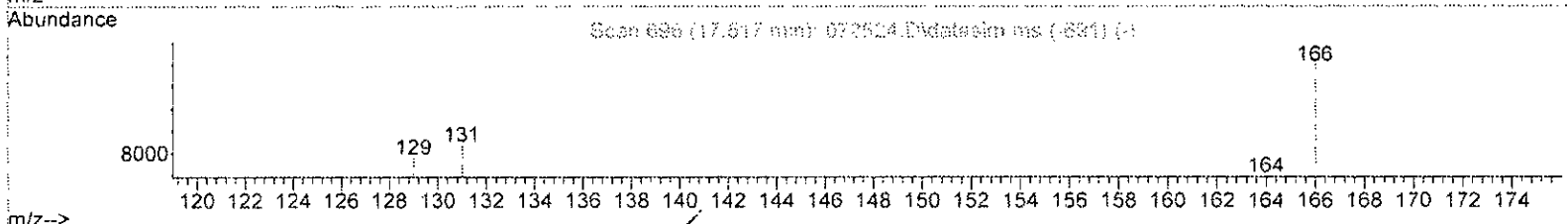
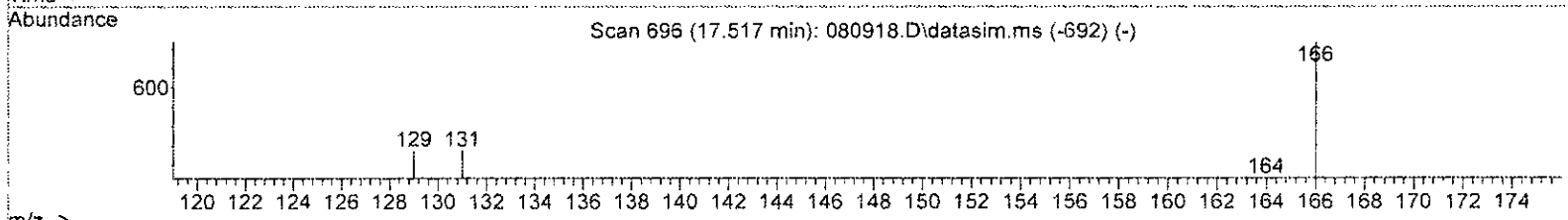
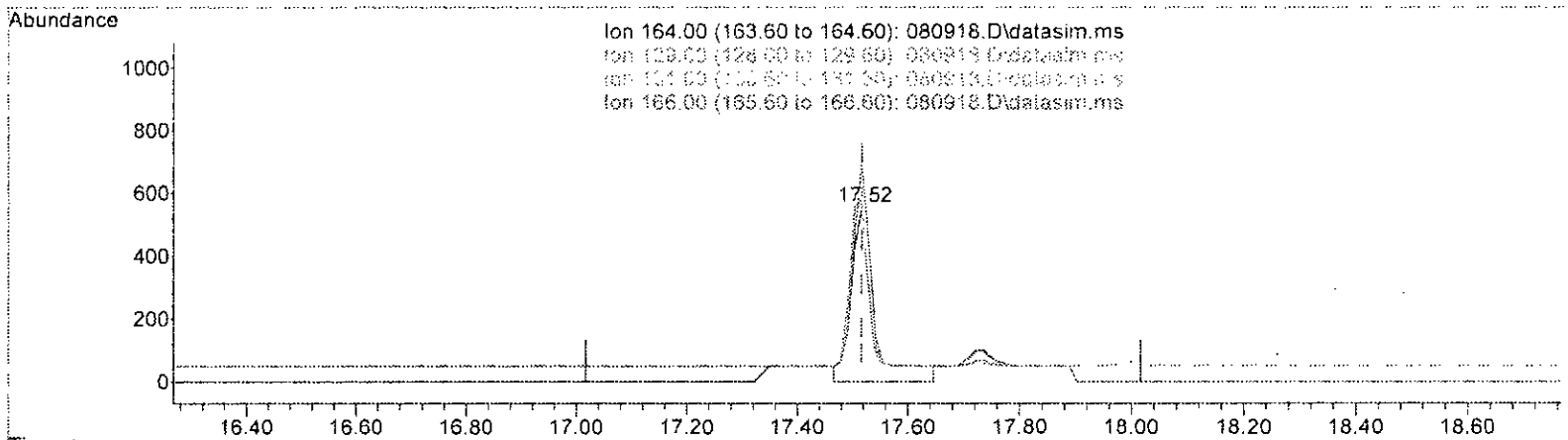
Quant Time: Aug 10 07:21:42 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080918.D  
 Acq On : 9 Aug 2023 10:17 pm  
 Operator : bat  
 Sample : 308147-02 1/5.0  
 Misc : T7  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:54 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080918.D\data.ms

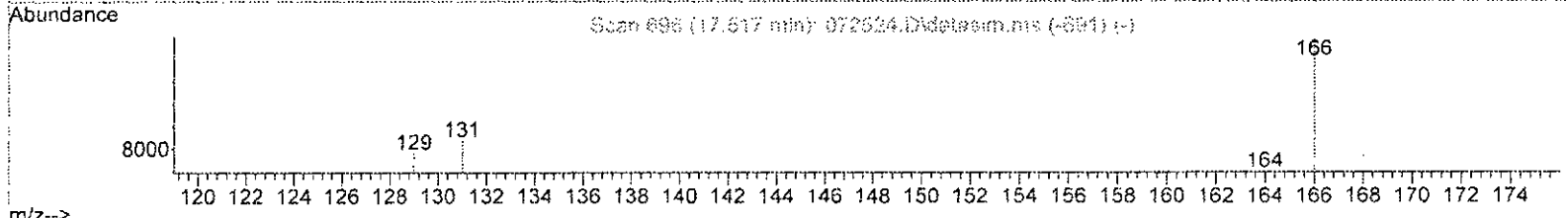
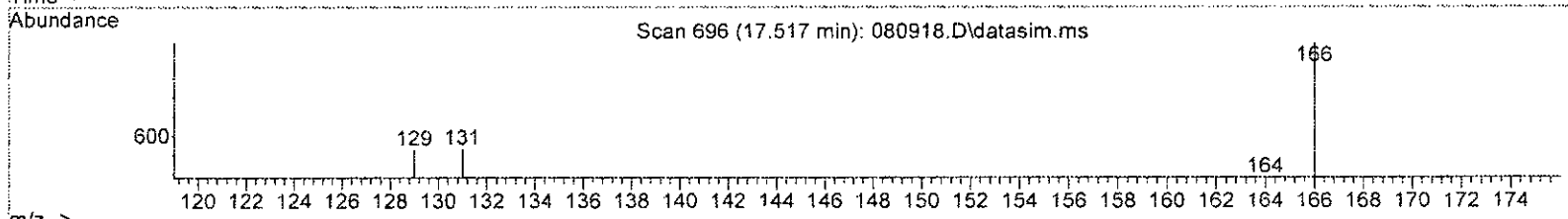
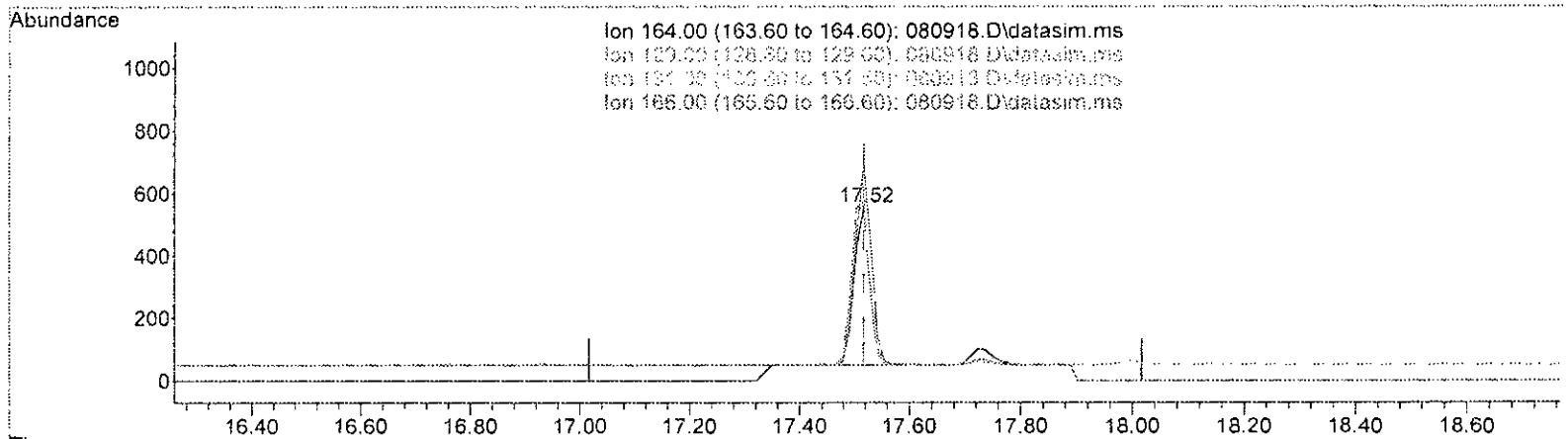
(53) Tetrachloroethene (TPE)			
17.517min (-0.000) 0.451 ppbv			
response	1554		
Ion	Exp%	Act%	
164.00	100.00	100.00	
129.00	93.20	105.53	
131.00	100.70	105.73	
166.00	137.50	127.87	

MD  
 8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080918.D  
 Acq On : 9 Aug 2023 10:17 pm  
 Operator : bat  
 Sample : 308147-02 1/5.0  
 Misc : T7  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:54 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080918.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (-0.000) 0.294 ppbv m

response	1013
Ion	Exp% Act%
164.00	100.00 100.00
129.00	93.20 105.22
131.00	100.70 105.40
166.00	137.50 125.36

MD  
01/10/23

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080918.D  
 Acq On : 9 Aug 2023 10:17 pm  
 Operator : bat  
 Sample : 308147-02 1/5.0  
 Misc : T7  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:54 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

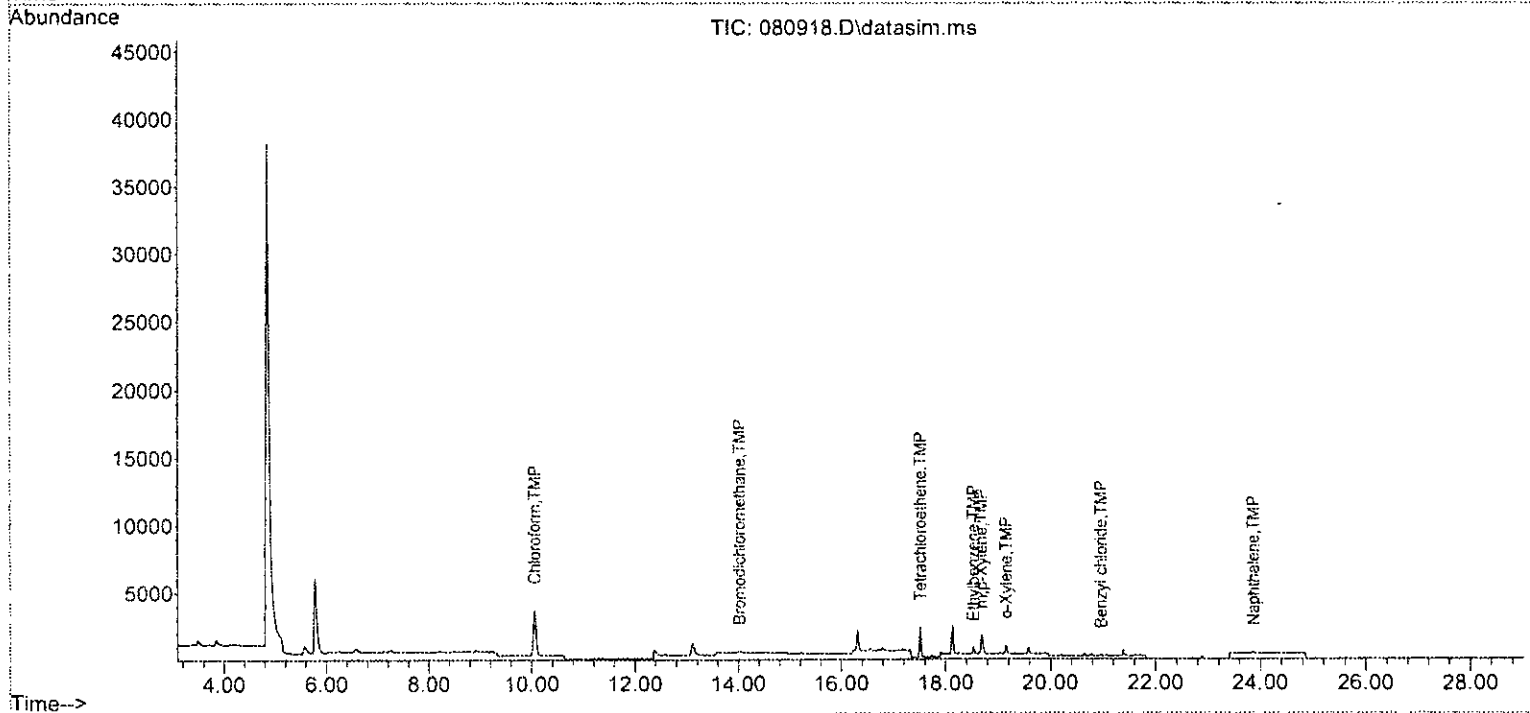
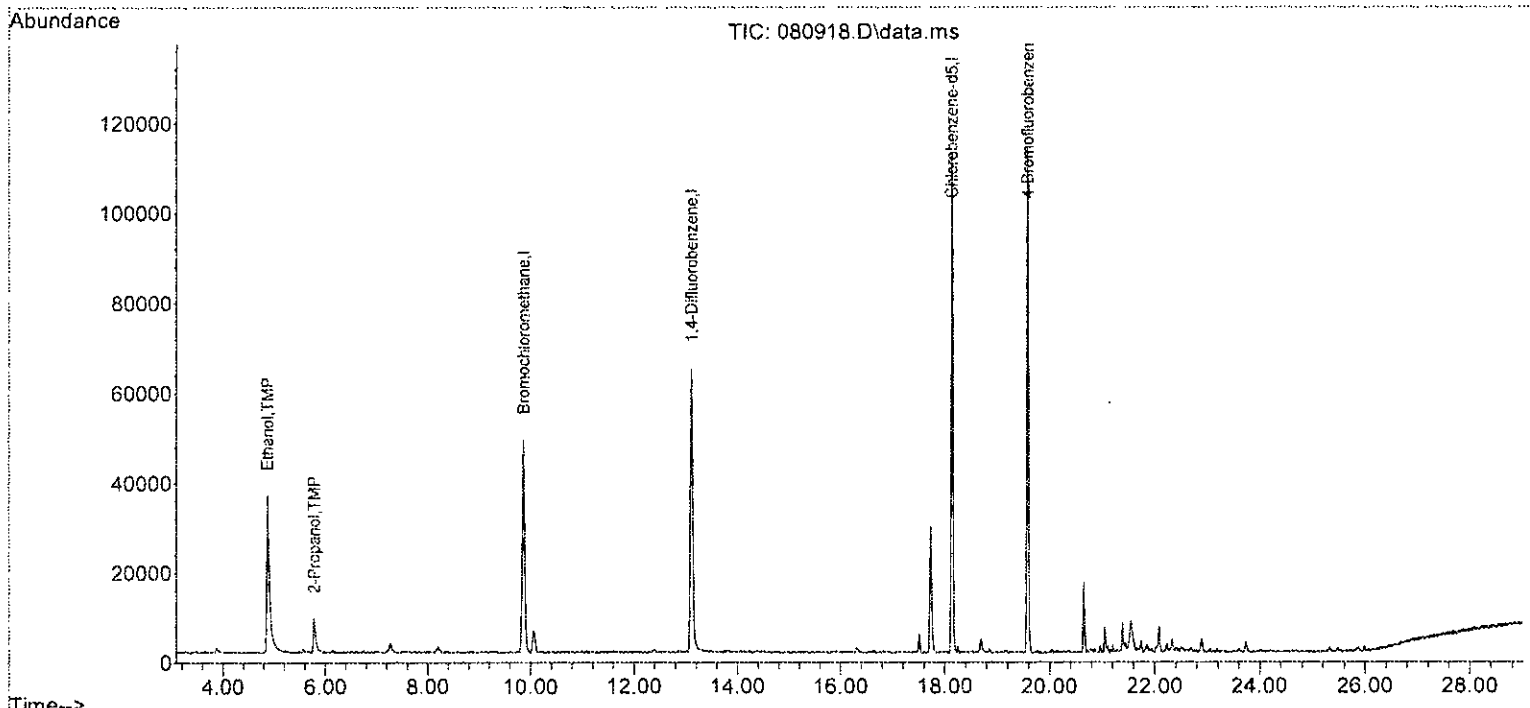
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Bromochloromethane	9.86	128	19529	10.000	ppbv	0.00	
39) 1,4-Difluorobenzene	13.11	114	76491	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	70649	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	49424	9.441	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.40%	
Target Compounds							
							Qvalue
12) Ethanol	4.88	45	84055	79.194	ppbv	100	
17) 2-Propanol	5.78	45	18331	3.204	ppbv	96	
30] Chloroform	10.07	83	7531	0.921	ppbv	99	
45] Bromodichloromethane	14.02	83	230	0.030	ppbv	98	
53] Tetrachloroethene	17.52	164	1013m	0.294	ppbv		
58] Ethylbenzene	18.53	91	690	0.054	ppbv	100	
65] m,p-Xylene	18.68	106	989	0.231	ppbv	93	
66] o-Xylene	19.15	106	339	0.087	ppbv	98	
70] Benzyl chloride	20.96	91	46	0.007	ppbv	84	
77] Naphthalene	23.86	128	237	0.032	ppbv	97	

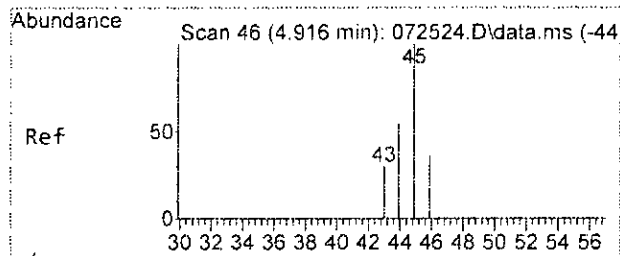
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080918.D  
 Acq On : 9 Aug 2023 10:17 pm  
 Operator : bat  
 Sample : 308147-02 1/5.0  
 Misc : T7  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

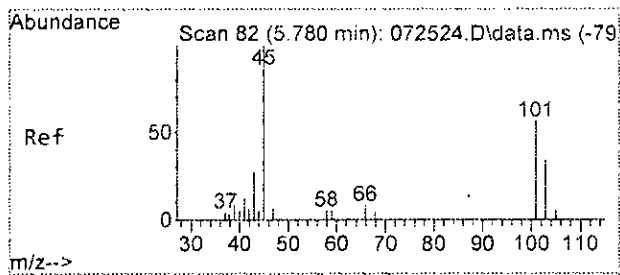
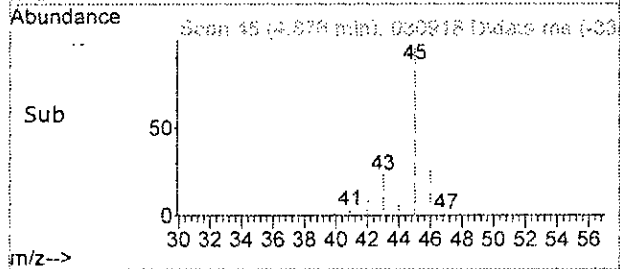
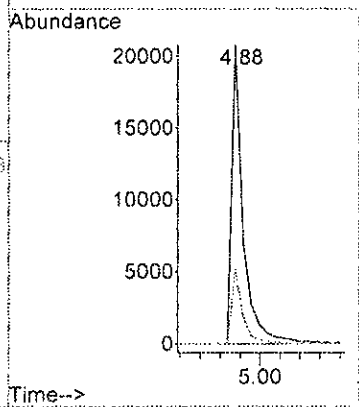
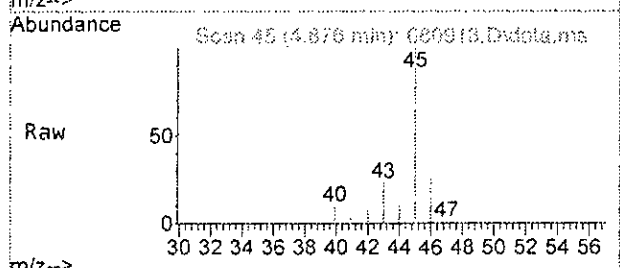
Quant Time: Aug 10 07:21:54 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M





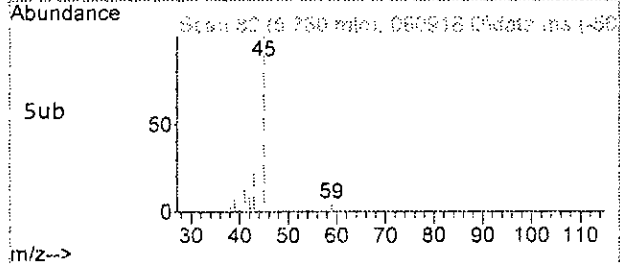
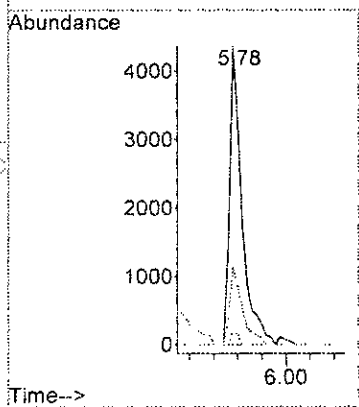
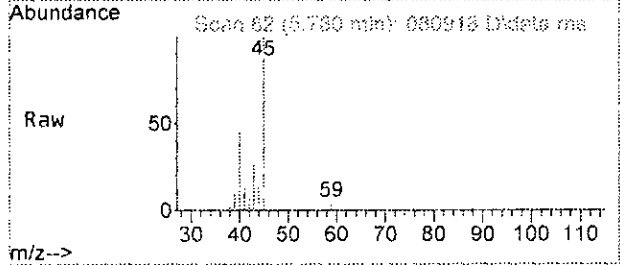
#12  
 Ethanol  
 Concen: 79.194 ppbv  
 RT: 4.88 min Scan# 45  
 Delta R.T. -0.040 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

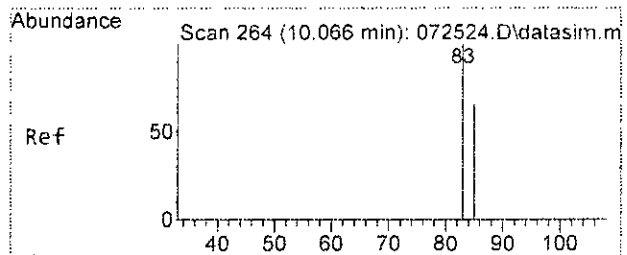
Tgt Ion	Resp	Lower	Upper
45	100		
46	25.6	0.0	55.5



#17  
 2-Propanol  
 Concen: 3.204 ppbv  
 RT: 5.78 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

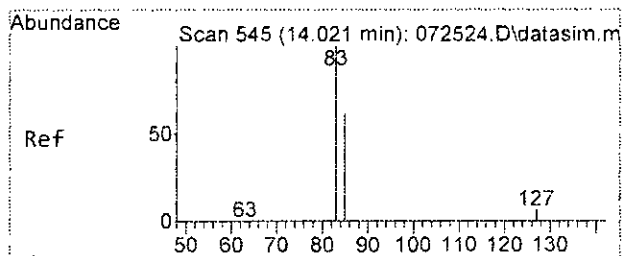
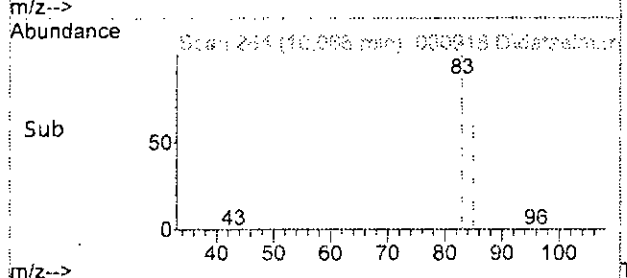
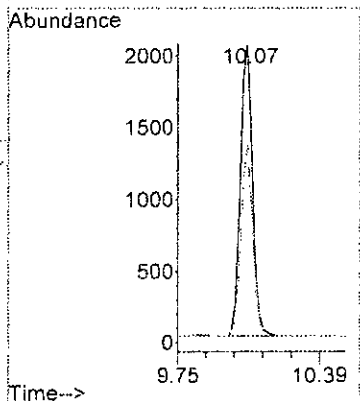
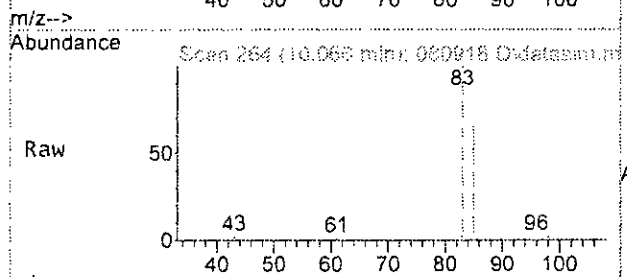
Tgt Ion	Resp	Lower	Upper
45	100		
43	26.1	0.0	30.0
59	5.1	0.0	33.6





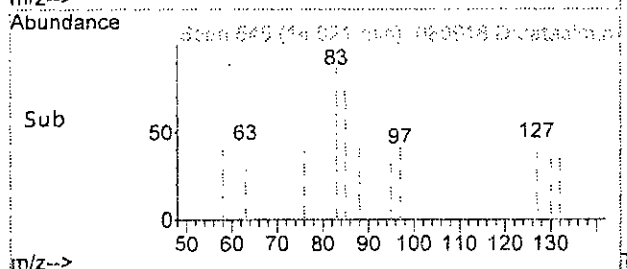
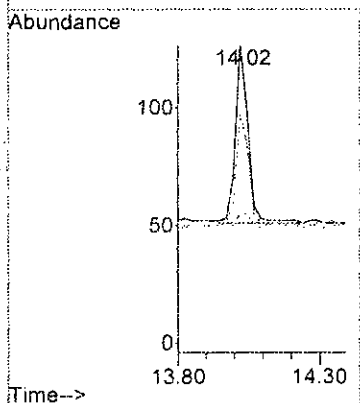
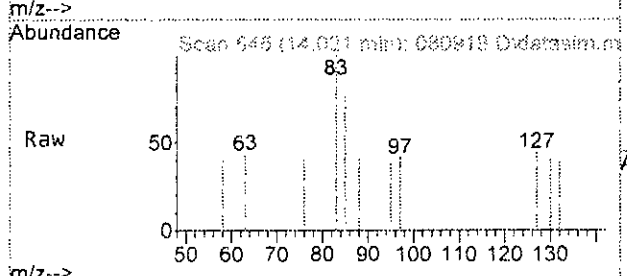
#30  
 Chloroform  
 Concen: 0.921 ppbv  
 RT: 10.07 min Scan# 264  
 Delta R.T. -0.000 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

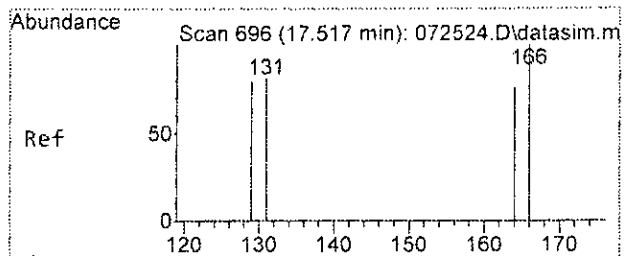
Tgt Ion	Resp	Lower	Upper
83	100		
85	65.3	36.3	96.3



#45  
 Bromodichloromethane  
 Concen: 0.030 ppbv  
 RT: 14.02 min Scan# 545  
 Delta R.T. -0.000 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

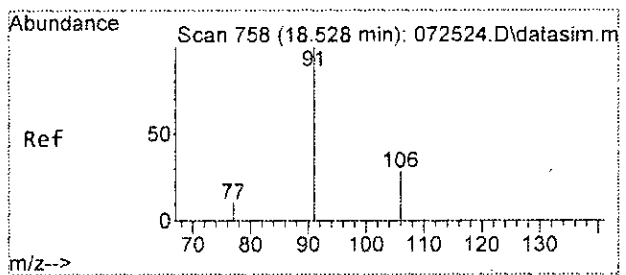
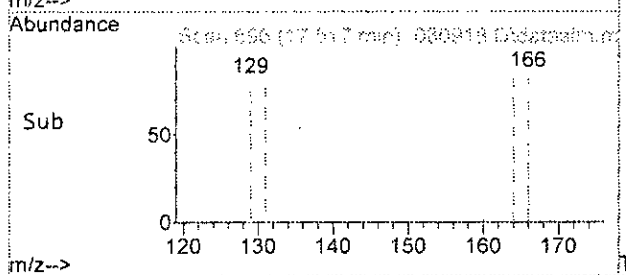
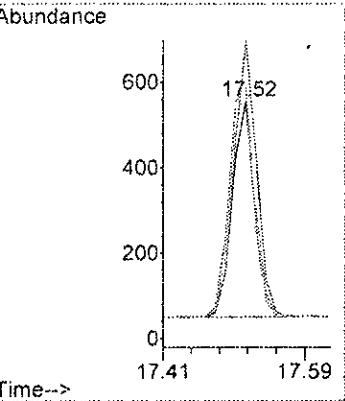
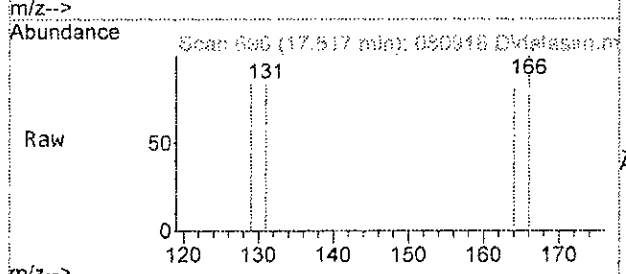
Tgt Ion	Resp	Lower	Upper
83	100		
85	62.7	31.0	91.0
127	8.0	0.0	30.0





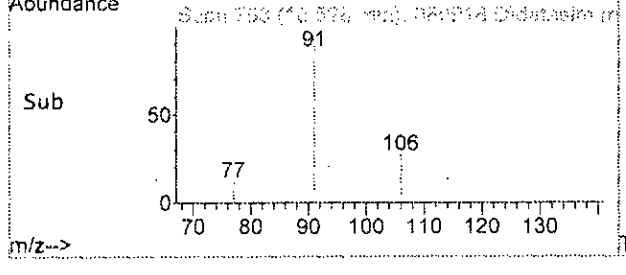
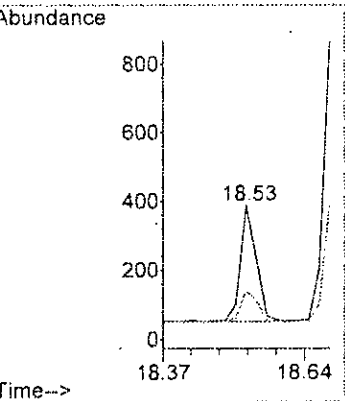
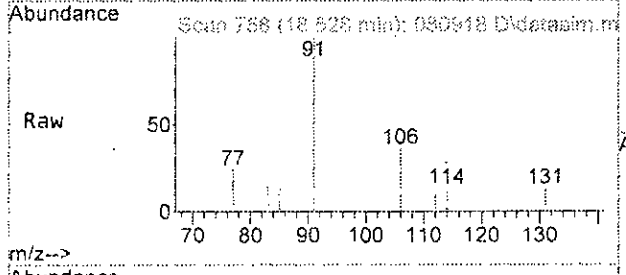
#53  
 Tetrachloroethene  
 Concen: 0.294 ppbv m  
 RT: 17.52 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

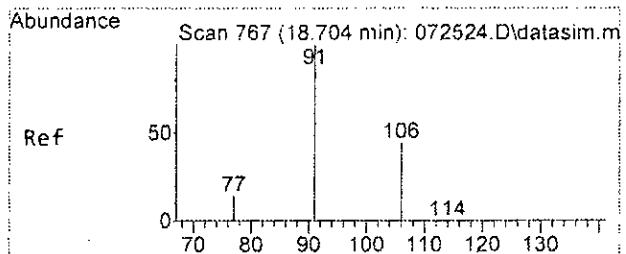
Tgt Ion	Resp	Lower	Upper
164	100		
129	105.2	63.2	123.2
131	105.4	70.7	130.7
166	125.4	107.5	167.5



#58  
 Ethylbenzene  
 Concen: 0.054 ppbv  
 RT: 18.53 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

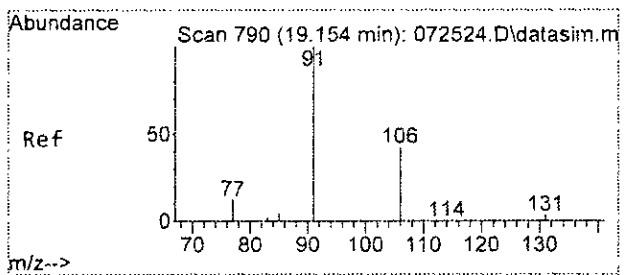
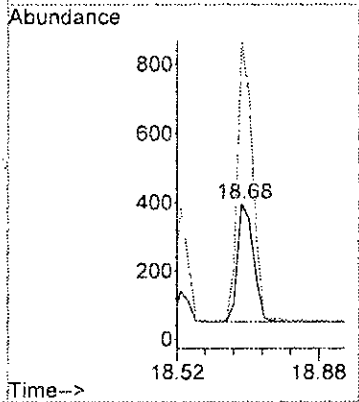
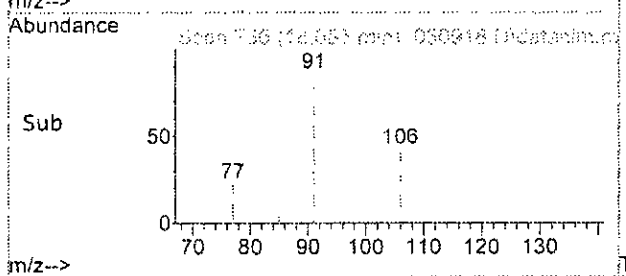
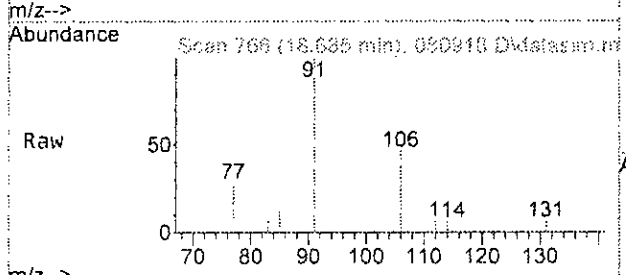
Tgt Ion	Resp	Lower	Upper
91	100		
106	26.9	0.0	57.0





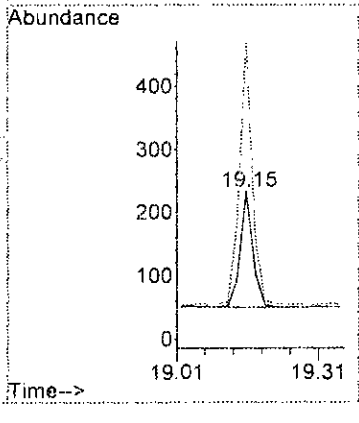
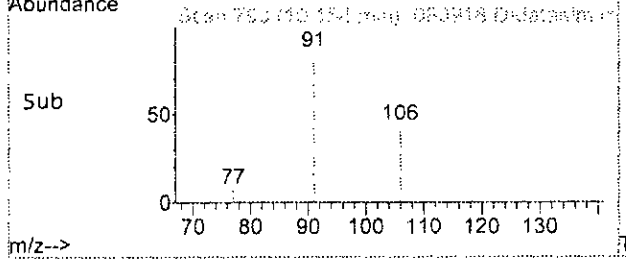
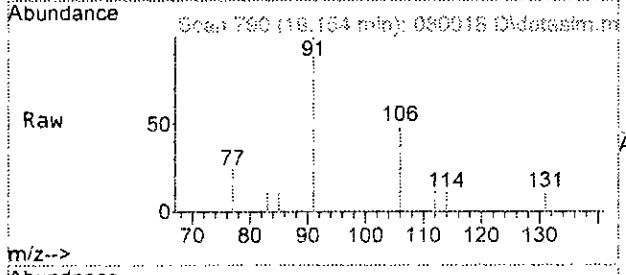
#65  
 m,p-Xylene  
 Concen: 0.231 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

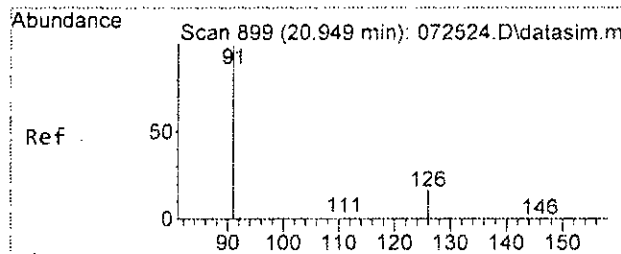
Tgt Ion: 106 Resp: 989  
 Ion Ratio Lower Upper  
 106 100  
 91 234.7 193.0 253.0



#66  
 o-Xylene  
 Concen: 0.087 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

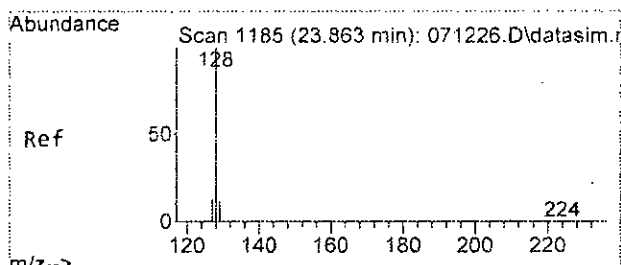
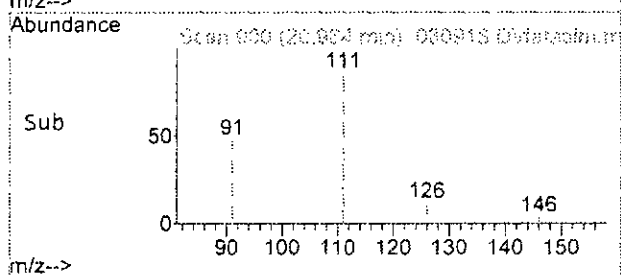
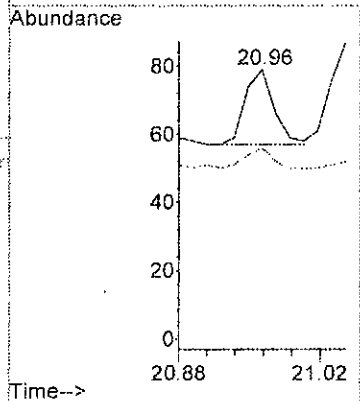
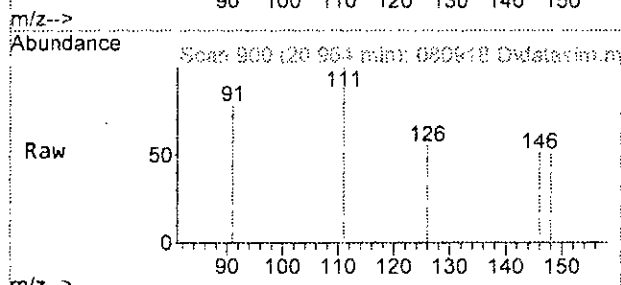
Tgt Ion: 106 Resp: 339  
 Ion Ratio Lower Upper  
 106 100  
 91 227.3 194.4 254.4





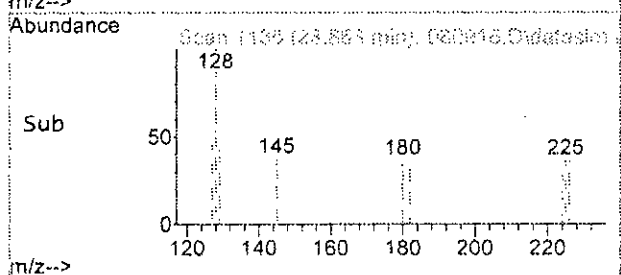
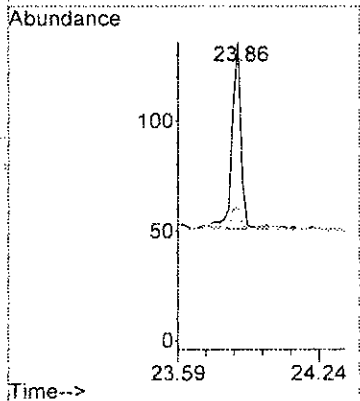
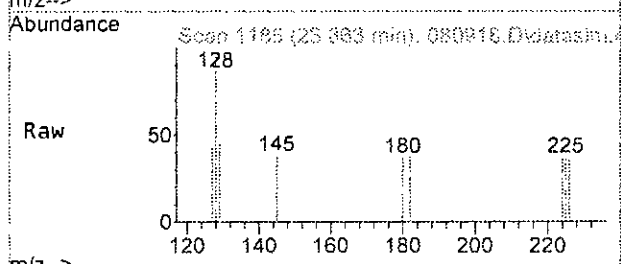
#70  
 Benzyl chloride  
 Concen: 0.007 ppbv  
 RT: 20.96 min Scan# 900  
 Delta R.T. 0.015 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

Tgt Ion	Resp	Lower	Upper
91	100		
126	27.3	0.0	50.0



#77  
 Naphthalene  
 Concen: 0.032 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080918.D  
 Acq: 9 Aug 2023 10:17 pm

Tgt Ion	Resp	Lower	Upper
128	100		
129	11.8	0.0	41.0
127	11.8	0.0	43.2



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080918.D  
 Acq On : 9 Aug 2023 10:17 pm  
 Operator : bat  
 Sample : 308147-02 1/5.0  
 Misc : T7  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:54 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Bromochloromethane	9.86	128	19529	10.000	ppbv	0.00	
39) 1,4-Difluorobenzene	13.11	114	76491	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	70649	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	49424	9.441	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.40%	
Target Compounds							
							Qvalue
2) Propene	0.00		0		N.D.		
3) Dichlorodifluoromethane	0.00		0		N.D.	d	
4) Chloromethane	3.69	50	184		N.D.		
5) F-114	0.00		0		N.D.		
6) Vinyl chloride	0.00		0		N.D.		
7) 1,3-Butadiene	0.00		0		N.D.		
8) Butane	0.00		0		N.D.		
9) Bromomethane	0.00		0		N.D.		
10) Chloroethane	0.00		0		N.D.		
11) Vinyl bromide	0.00		0		N.D.	d	
12) Ethanol	4.88	45	84055	79.194	ppbv	100	
13) Acrolein	0.00		0		N.D.		
14) Pentane	0.00		0		N.D.		
15) Trichlorofluoromethane	0.00		0		N.D.		
16) Acetone	5.60	58	511		N.D.		
17) 2-Propanol	5.78	45	18331	3.204	ppbv	96	
18) 1,1-Dichloroethene	0.00		0		N.D.		
19) trans-1,2-Dichloroethene	0.00		0		N.D.		
20) Methylene chloride	0.00		0		N.D.		
21) t-Butyl alcohol (TBA)	0.00		0		N.D.		
22) 3-Chloropropene	0.00		0		N.D.		
23) CFC-113	0.00		0		N.D.		
24) Carbon disulfide	0.00		0		N.D.		
25) Methyl t-butyl ether (...)	0.00		0		N.D.		
26) Vinyl acetate	0.00		0		N.D.		
27) 1,1-Dichloroethane	0.00		0		N.D.		
28) cis-1,2-Dichloroethene	0.00		0		N.D.		
29) Hexane	0.00		0		N.D.		
30] Chloroform	10.07	83	7531	0.921	ppbv	99	
31) Ethyl acetate	0.00		0		N.D.		
32) Tetrahydrofuran	0.00		0		N.D.		
33) 2-Butanone (MEK)	0.00		0		N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0		N.D.		
35) 1,1,1-Trichloroethane	11.53	97	137		N.D.		
36) Carbon tetrachloride	0.00		0		N.D.		
37) Benzene	12.58	78	379		N.D.		
38) Cyclohexane	0.00		0		N.D.		
40) 1,2-Dichloropropane	0.00		0		N.D.	d	

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080918.D  
 Acq On : 9 Aug 2023 10:17 pm  
 Operator : bat  
 Sample : 308147-02 1/5.0  
 Misc : T7  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:54 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D.	
44) Heptane	14.38	43	158		N.D.	
45] Bromodichloromethane	14.02	83	230	0.030	ppbv	98
46) Trichloroethene	14.12	95	24		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	2128		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.59	43	396		N.D.	
53] Tetrachloroethene	17.52	164	1013m	0.294	ppbv	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58] Ethylbenzene	18.53	91	690	0.054	ppbv	100
59) 1,1,2,2-Tetrachloroethane	18.84	83	47		N.D.	
60) Nonane	19.11	43	140		N.D.	
61) Isopropylbenzene	20.04	105	285		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	20.33	105	120		N.D.	
65] m,p-Xylene	18.68	106	989	0.231	ppbv	93
66] o-Xylene	19.15	106	339	0.087	ppbv	98
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70] Benzyl chloride	20.96	91	46	0.007	ppbv	84
71) 1,3,5-Trimethylbenzene	20.33	105	120		N.D.	
72) 1,2,4-Trimethylbenzene	20.81	105	567		N.D.	
73) 1,3-Dichlorobenzene	20.99	146	25		N.D.	
74) 1,4-Dichlorobenzene	20.99	146	25		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.86	128	237	0.032	ppbv	97
78) Hexachlorobutadiene	0.00		0		N.D.	

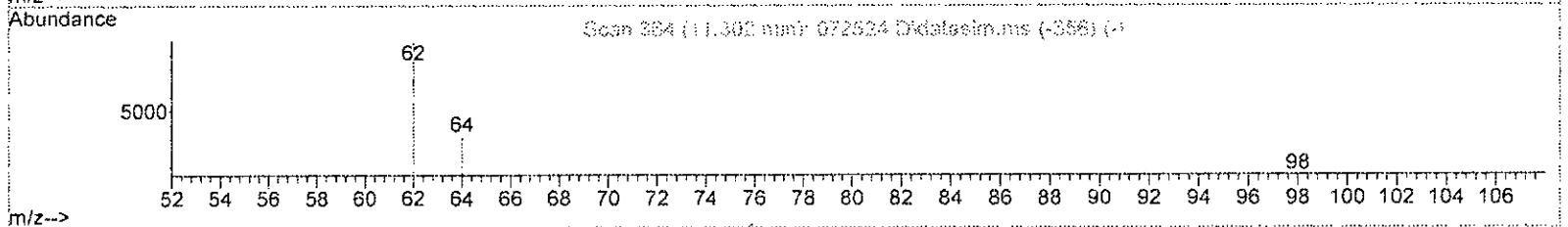
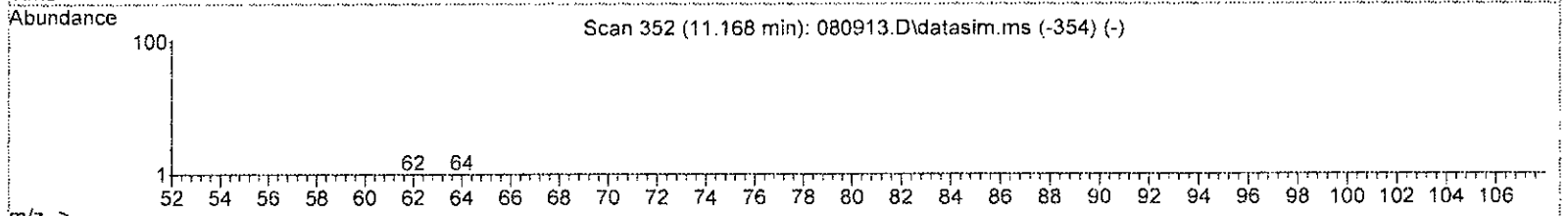
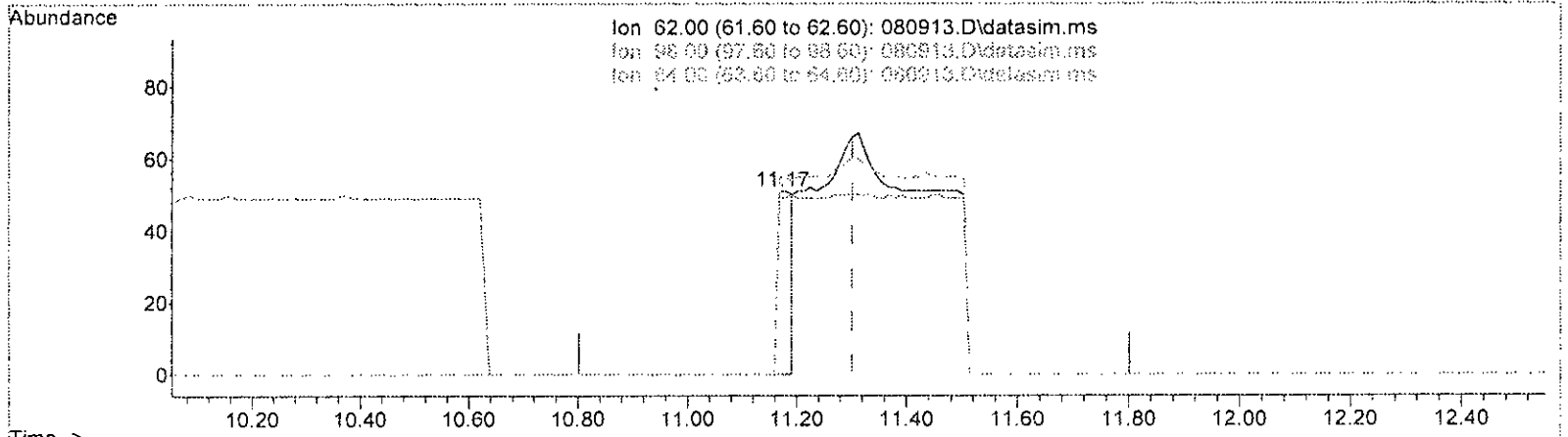
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080913.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TME)

11.168min (-0.134) 0.017 ppbv

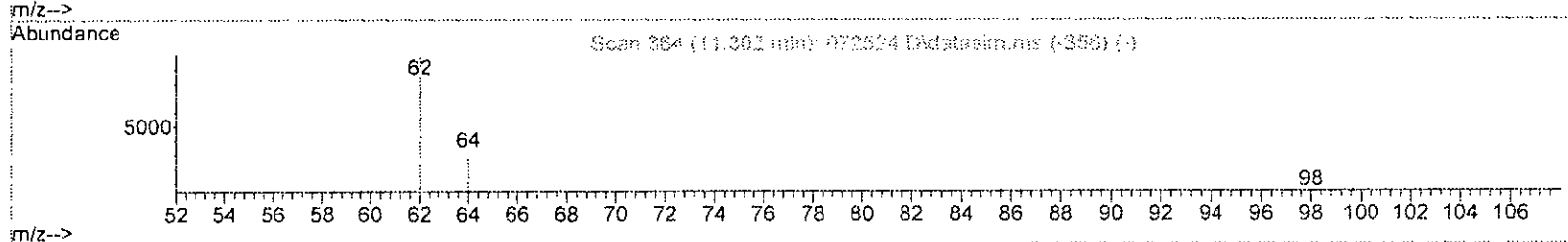
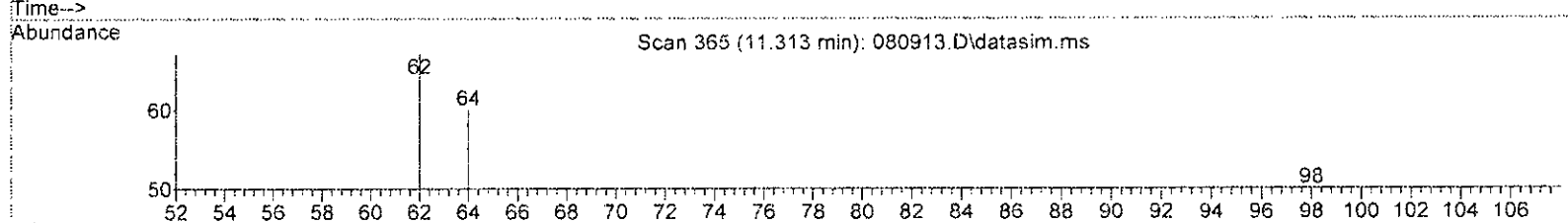
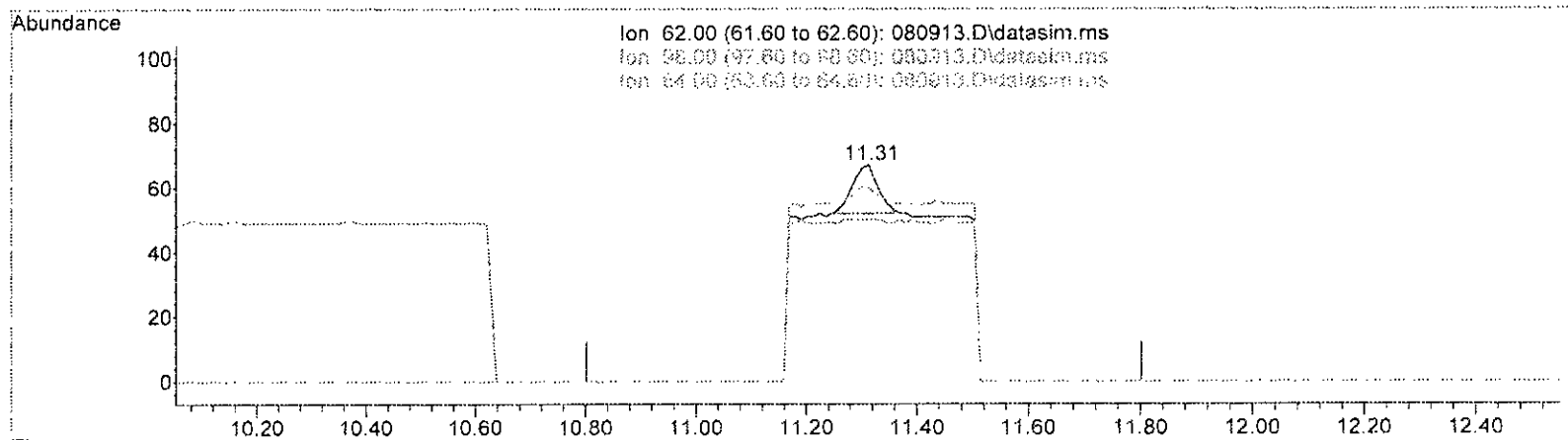
response	94	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	96.08#
64.00	33.00	107.84#
0.00	0.00	0.00

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 080913.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.313min (+ 0.011) 0.009 ppbv m

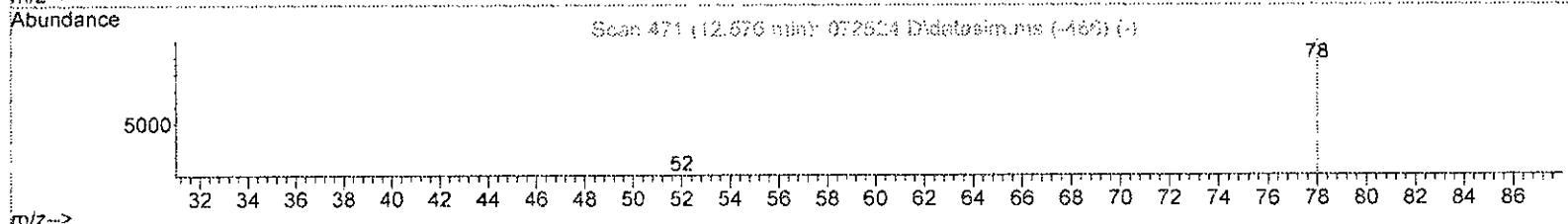
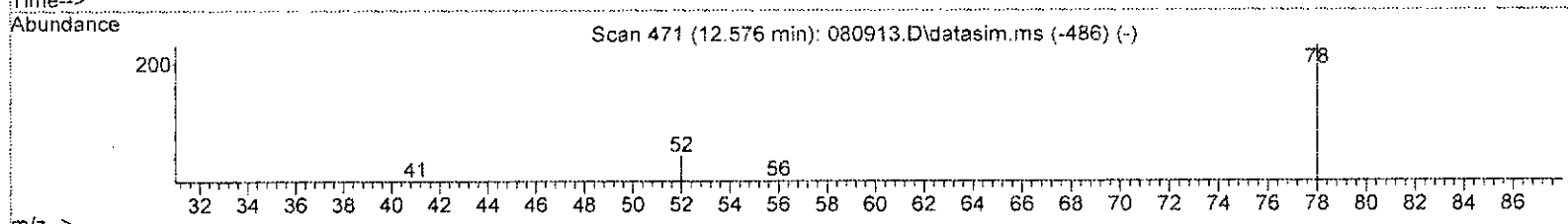
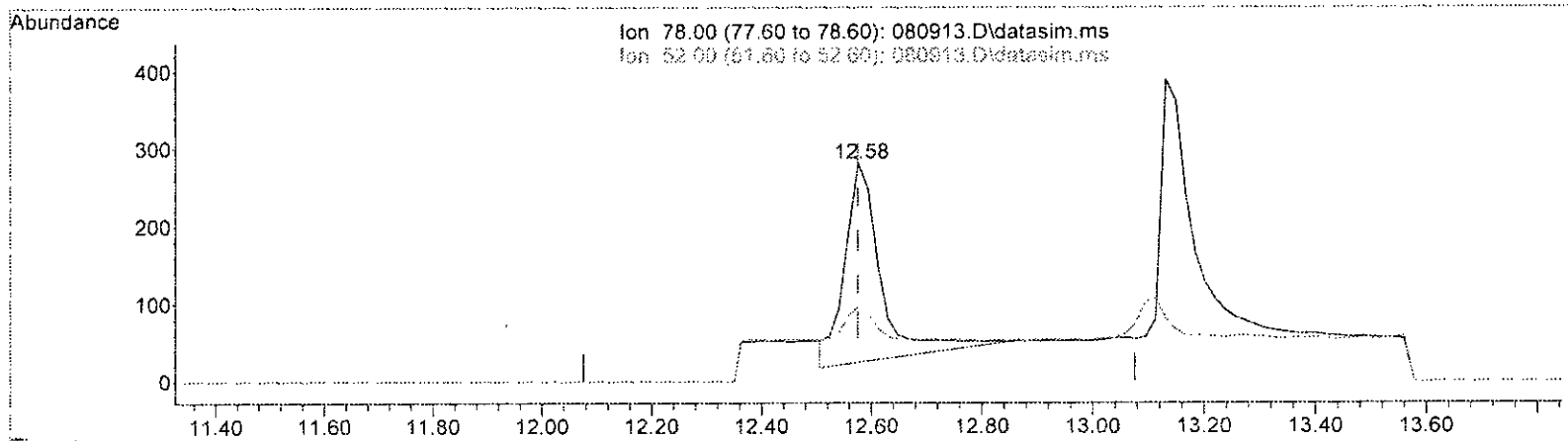
response	48
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 74.63#
64.00	33.00 89.55#
0.00	0.00 0.00

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080913.D\data.ms

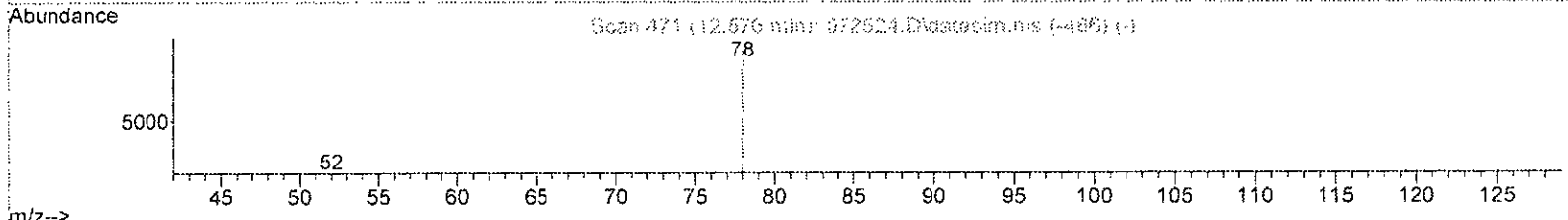
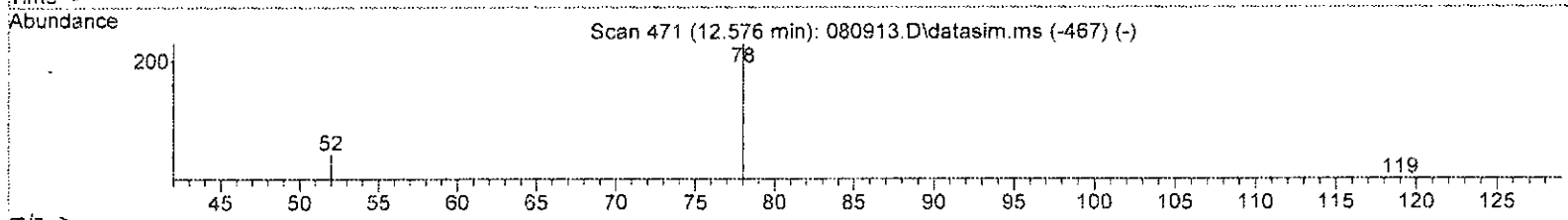
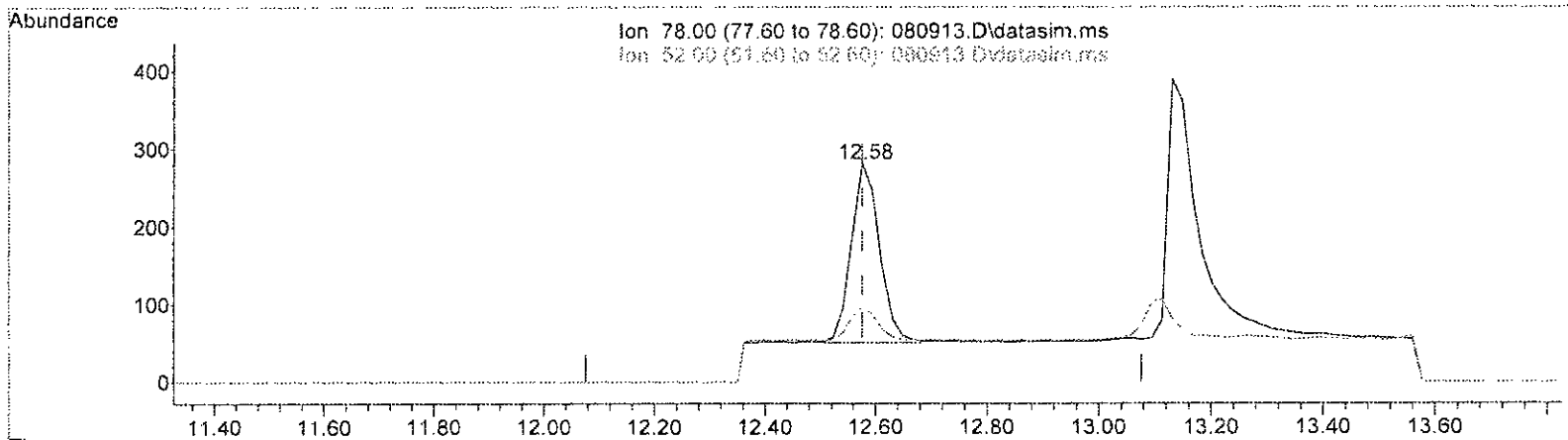
(37) Benzene (TMP)		
12.576min (+ 0.000)	0.108 ppbv	
response	1163	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	18.70
0.00	0.00	0.00
0.00	0.00	0.00

*NO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080913.D\data.ms

(37) Benzene (TMP)			
12.576min (+ 0.000) 0.076 ppbv m			
response	814		
Ion	Exp%	Act%	
78.00	100.00	100.00	
52.00	19.70	34.16	
0.00	0.00	0.00	
0.00	0.00	0.00	

*MD 8/10/23*

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

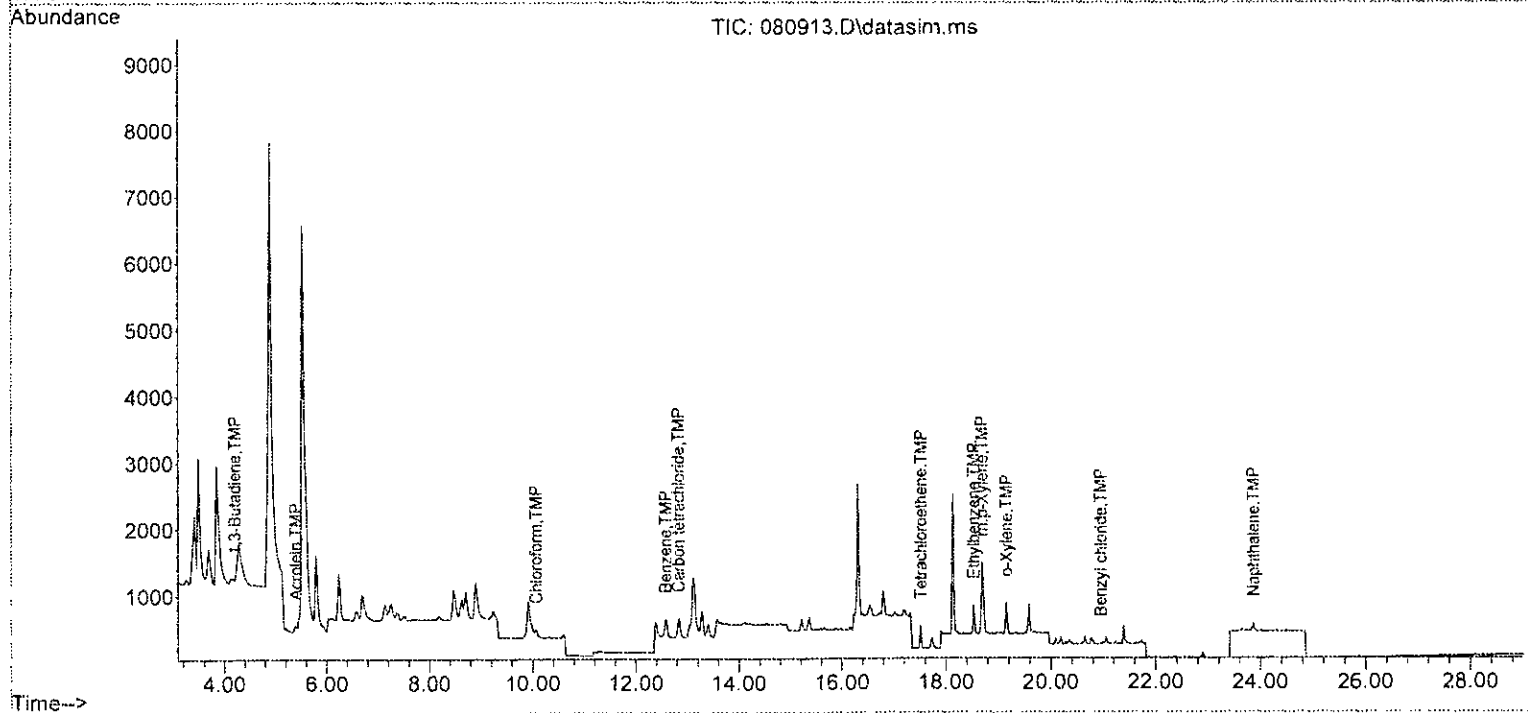
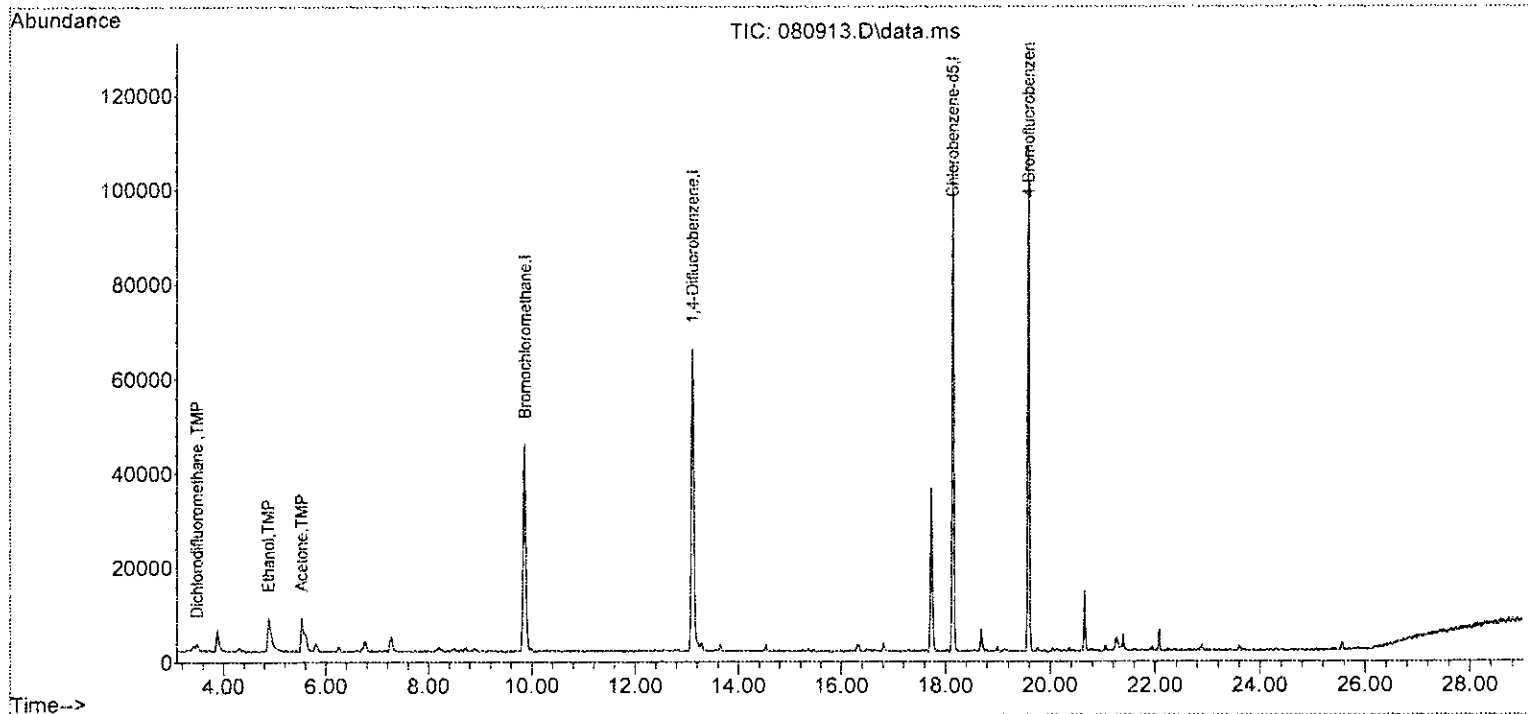
Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

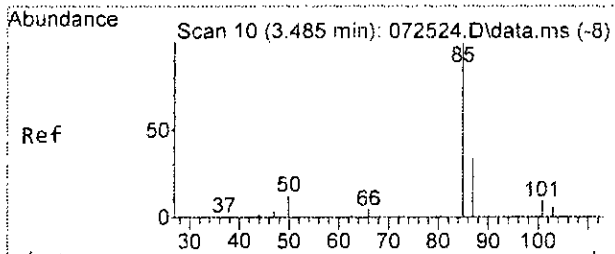
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	19141	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	78194	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	69576	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	47201	9.155	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	91.60%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.49	85	3541	0.376	ppbv	97
7] 1,3-Butadiene	4.21	54	72	0.030	ppbv #	40
12) Ethanol	4.88	45	23208	22.309	ppbv	87
13] Acrolein	5.39	56	290	0.208	ppbv #	1
16) Acetone	5.53	58	6074	4.733	ppbv	99
30] Chloroform	10.07	83	236	0.029	ppbv	99
36] Carbon tetrachloride	12.83	117	478	0.071	ppbv	99
37] Benzene	12.58	78	814m	0.076	ppbv	
53] Tetrachloroethene	17.52	164	770	0.219	ppbv	91
58] Ethylbenzene	18.53	91	636	0.051	ppbv	98
65] m,p-Xylene	18.68	106	741	0.175	ppbv	94
66] o-Xylene	19.15	106	238	0.062	ppbv	95
70] Benzyl chloride	20.95	91	24	0.004	ppbv	93
77] Naphthalene	23.86	128	231	0.032	ppbv	99

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

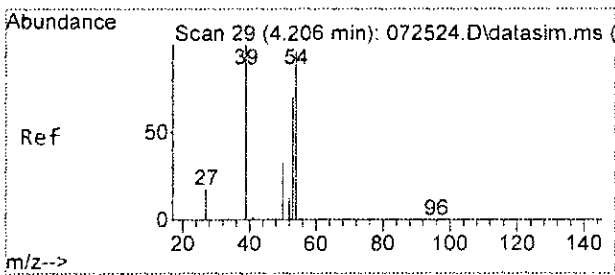
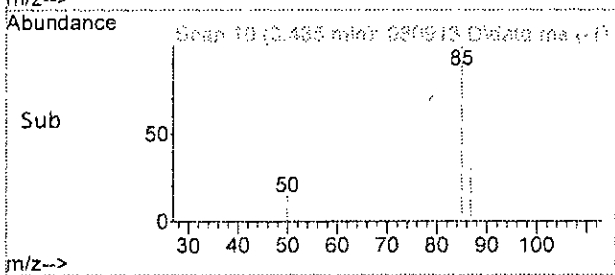
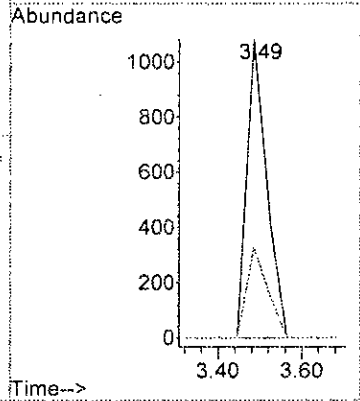
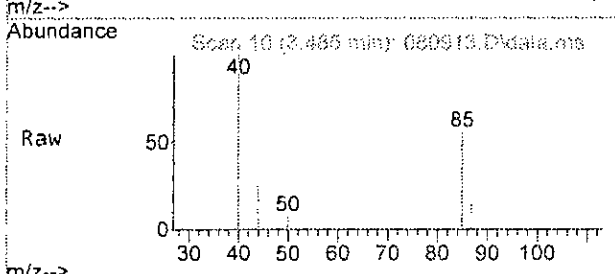




#3  
 Dichlorodifluoromethane  
 Concen: 0.376 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

Tgt Ion: 85 Resp: 3541

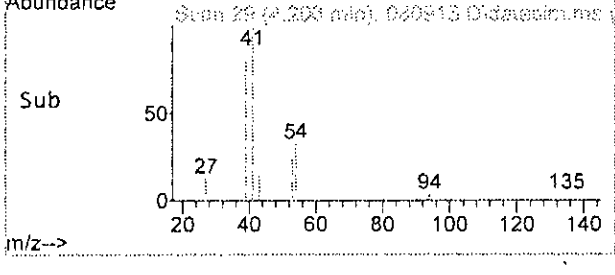
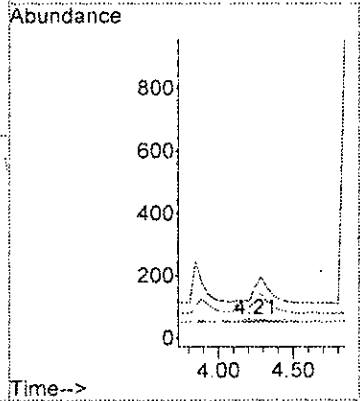
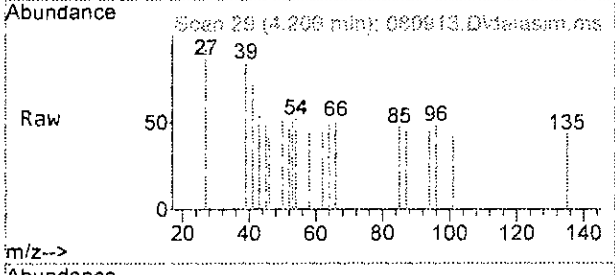
Ion	Ratio	Lower	Upper
85	100		
87	30.4	2.2	62.2

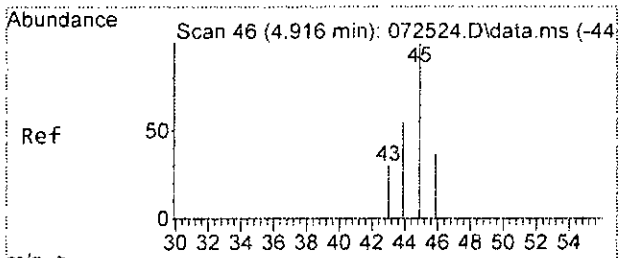


#7  
 1,3-Butadiene  
 Concen: 0.030 ppbv  
 RT: 4.21 min Scan# 29  
 Delta R.T. 0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

Tgt Ion: 54 Resp: 72

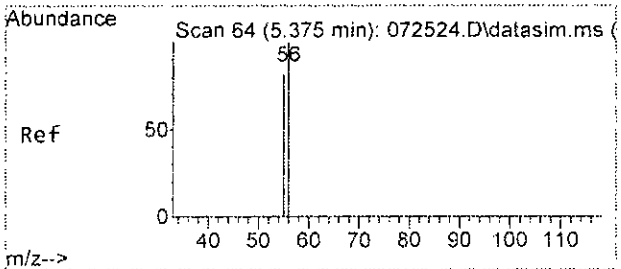
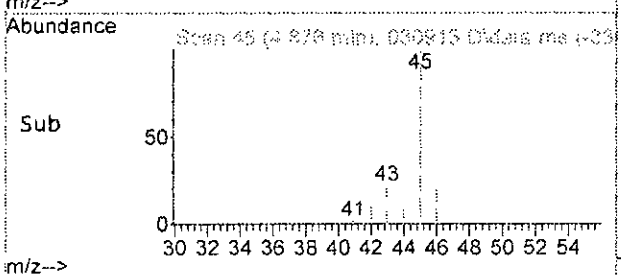
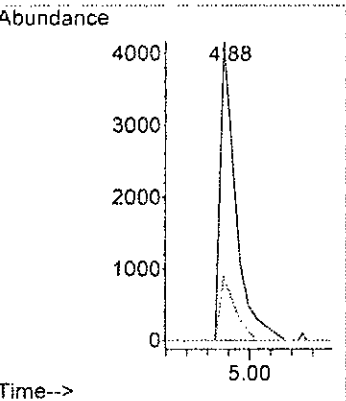
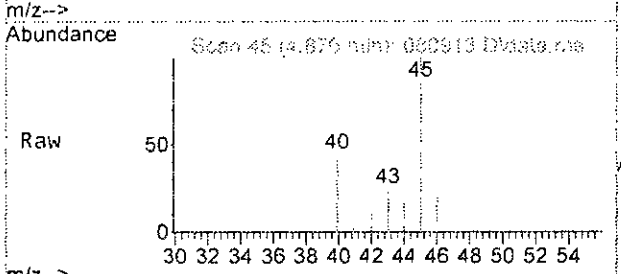
Ion	Ratio	Lower	Upper
54	100		
39	225.0	97.6	157.6#
53	87.5	42.4	102.4
27	50.0	0.0	20.0#





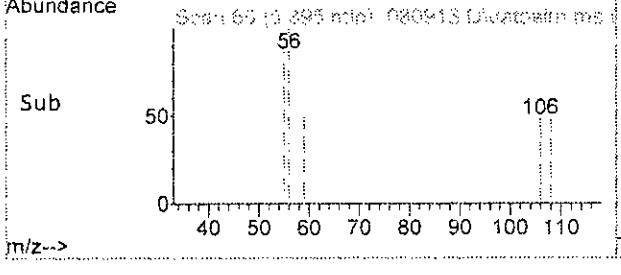
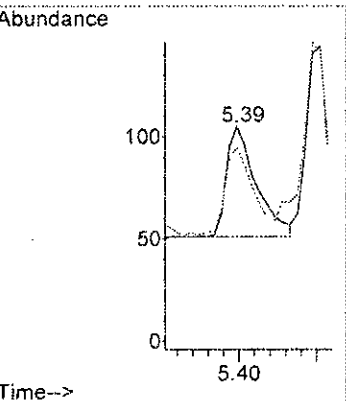
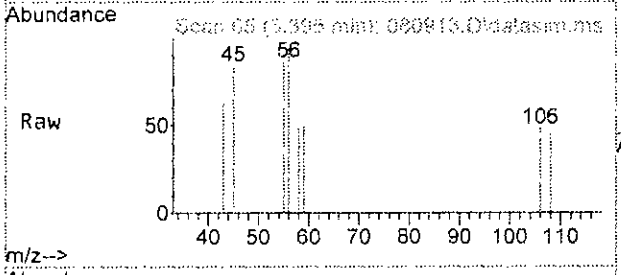
#12  
 Ethanol  
 Concen: 22.309 ppbv  
 RT: 4.88 min Scan# 45  
 Delta R.T. -0.040 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

Tgt Ion	Resp	Lower	Upper
45	23208		
46	19.1	0.0	55.5

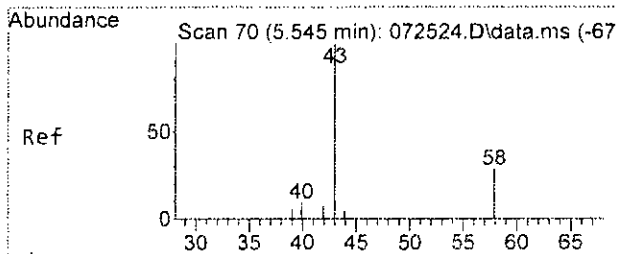


#13  
 Acrolein  
 Concen: 0.208 ppbv  
 RT: 5.39 min Scan# 65  
 Delta R.T. 0.020 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

Tgt Ion	Resp	Lower	Upper
56	290		
55	178.3	51.0	111.0#

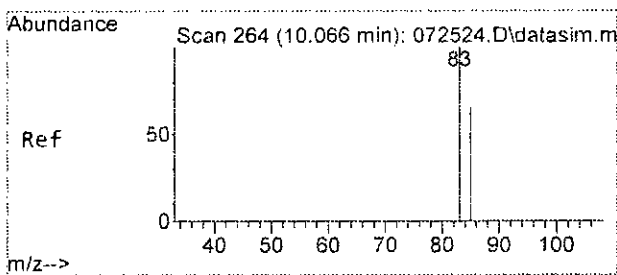
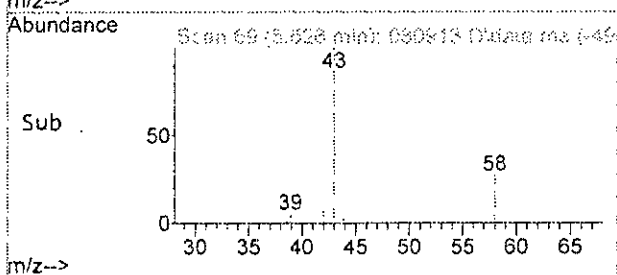
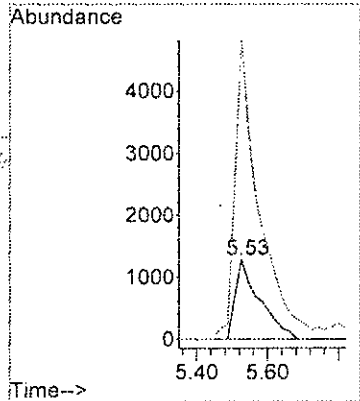
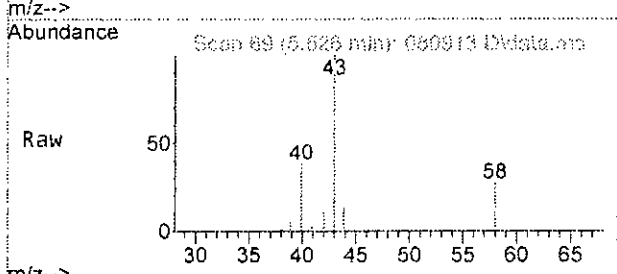






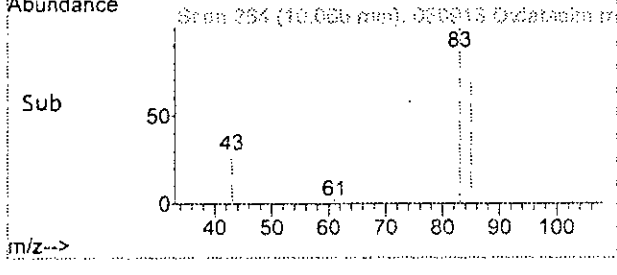
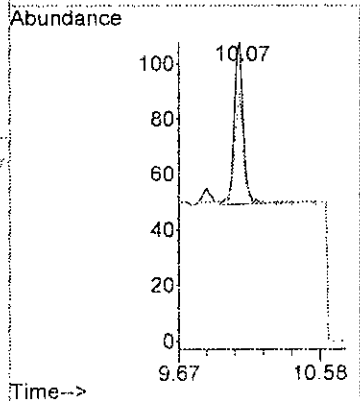
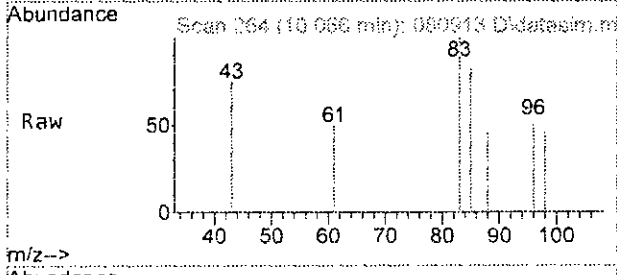
#16  
 Acetone  
 Concen: 4.733 ppbv  
 RT: 5.53 min Scan# 69  
 Delta R.T. -0.019 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

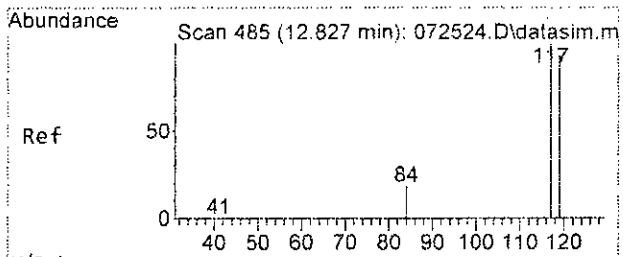
Tgt Ion	Resp	Lower	Upper
58	100		
43	361.0	329.3	389.3



#30  
 Chloroform  
 Concen: 0.029 ppbv  
 RT: 10.07 min Scan# 264  
 Delta R.T. 0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

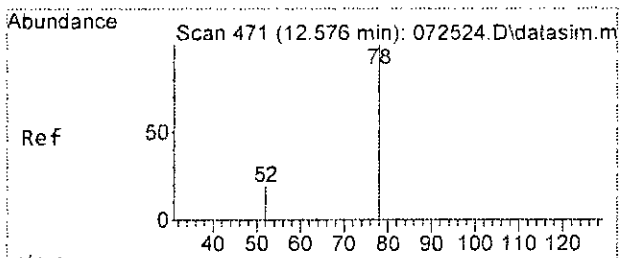
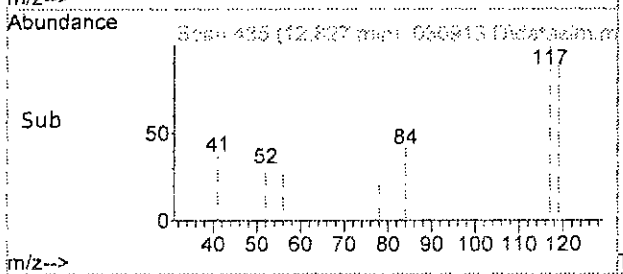
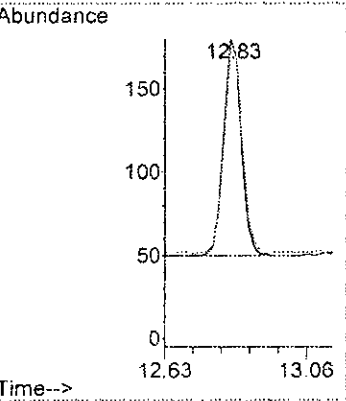
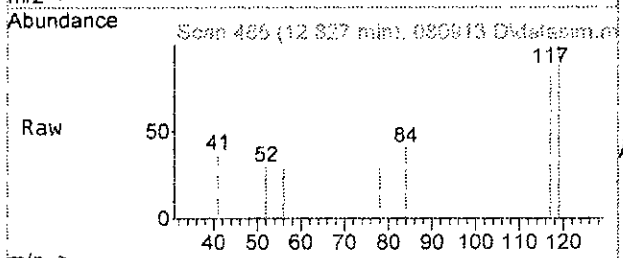
Tgt Ion	Resp	Lower	Upper
83	100		
85	67.2	36.3	96.3





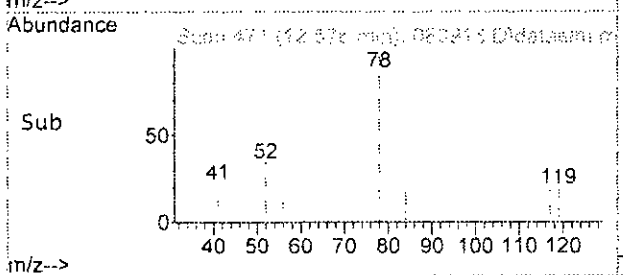
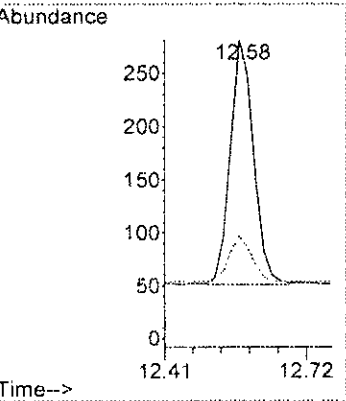
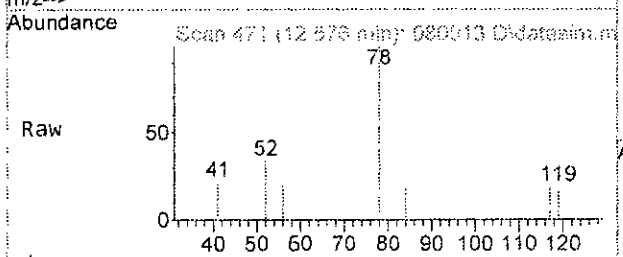
#36  
 Carbon tetrachloride  
 Concen: 0.071 ppbv  
 RT: 12.83 min Scan# 485  
 Delta R.T. -0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

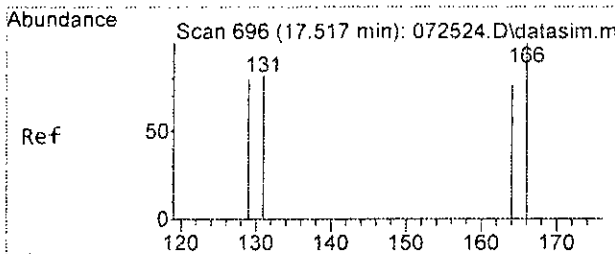
Tgt Ion	Resp	Lower	Upper
117	100		
119	95.4	64.6	124.6



#37  
 Benzene  
 Concen: 0.076 ppbv m  
 RT: 12.58 min Scan# 471  
 Delta R.T. 0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

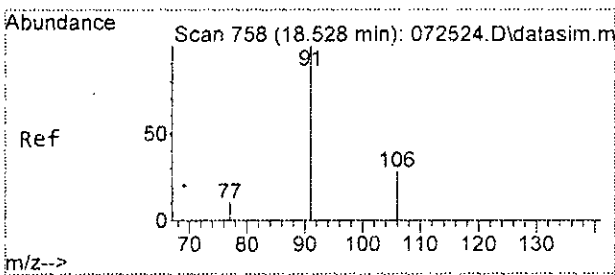
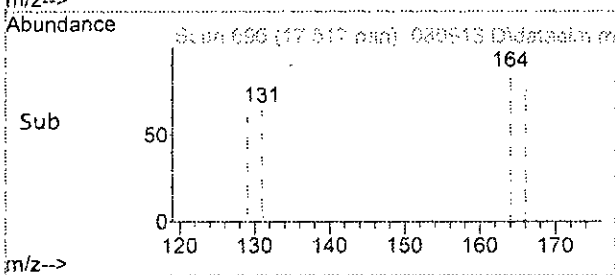
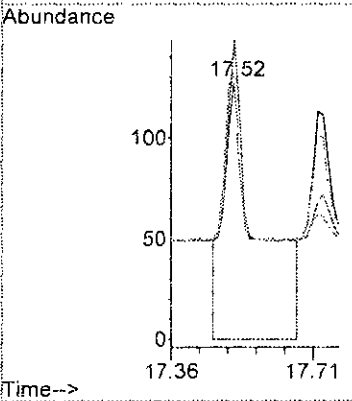
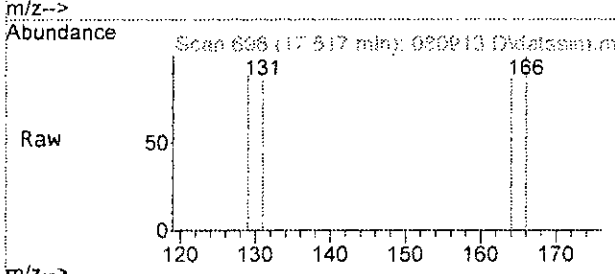
Tgt Ion	Resp	Lower	Upper
78	100		
52	34.2	0.0	49.7





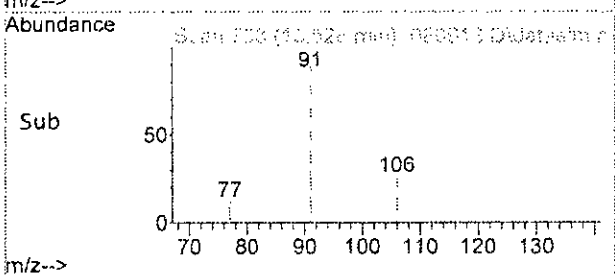
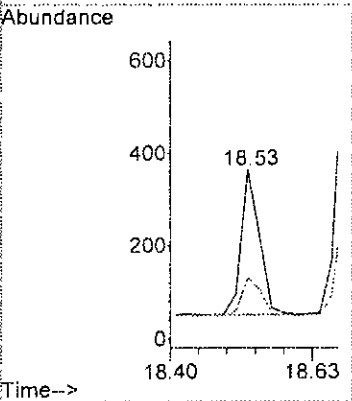
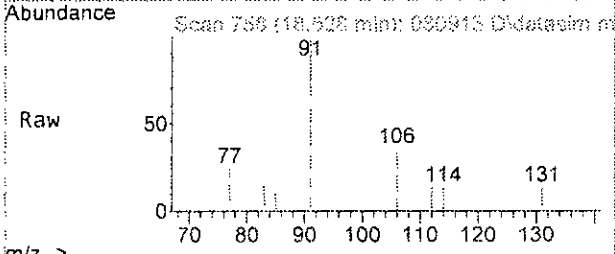
#53  
 Tetrachloroethene  
 Concen: 0.219 ppbv  
 RT: 17.52 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

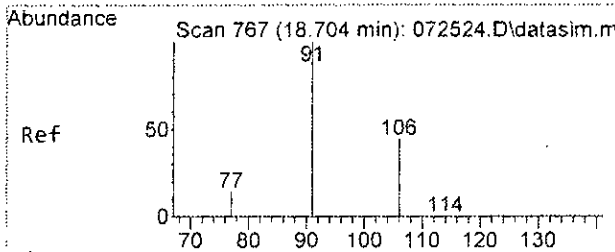
Tgt Ion	Resp	Lower	Upper
164	100		
129	102.5	63.2	123.2
131	107.6	70.7	130.7
166	125.3	107.5	167.5



#58  
 Ethylbenzene  
 Concen: 0.051 ppbv  
 RT: 18.53 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

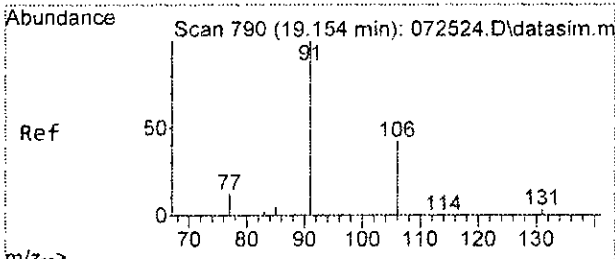
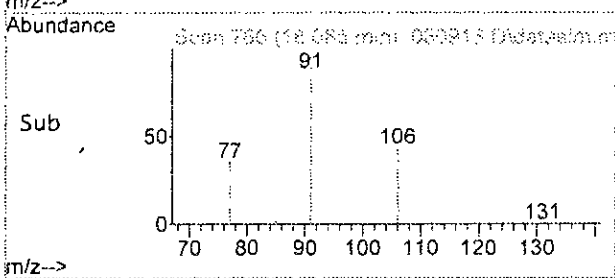
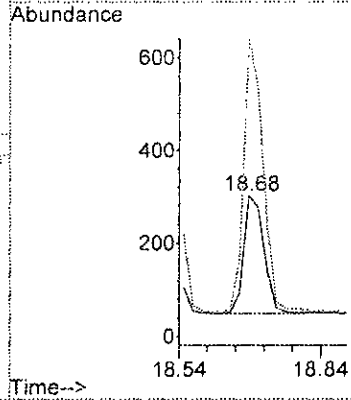
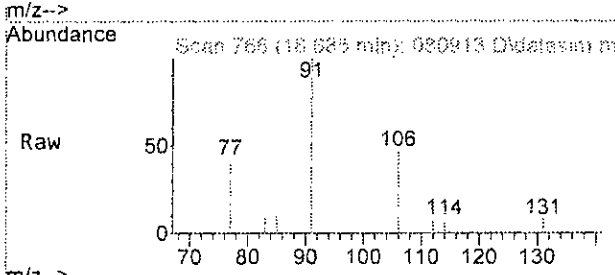
Tgt Ion	Resp	Lower	Upper
91	100		
106	26.0	0.0	57.0





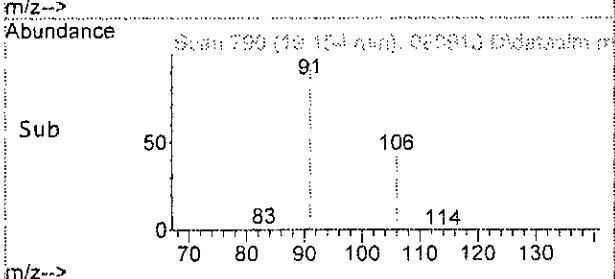
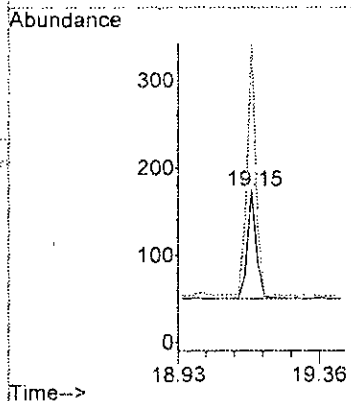
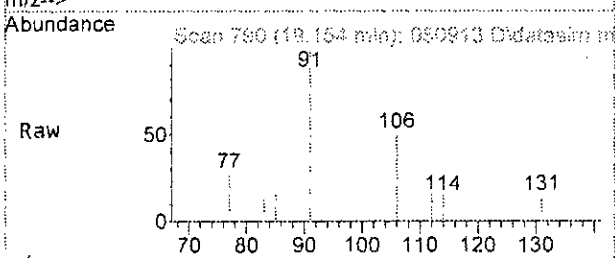
#65  
 m,p-Xylene  
 Concen: 0.175 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

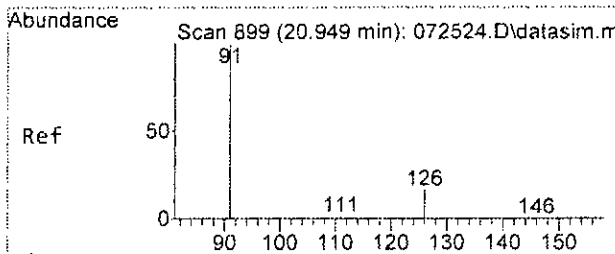
Tgt Ion:106 Resp: 741  
 Ion Ratio Lower Upper  
 106 100  
 91 233.3 193.0 253.0



#66  
 o-Xylene  
 Concen: 0.062 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

Tgt Ion:106 Resp: 238  
 Ion Ratio Lower Upper  
 106 100  
 91 233.1 194.4 254.4

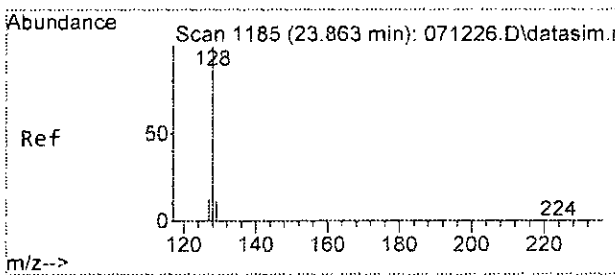
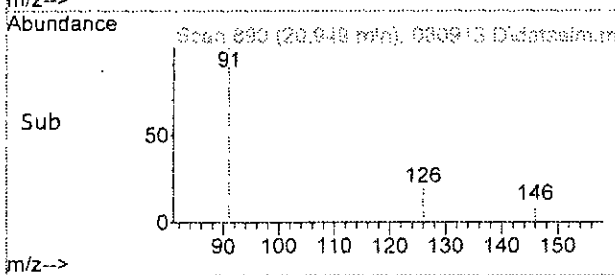
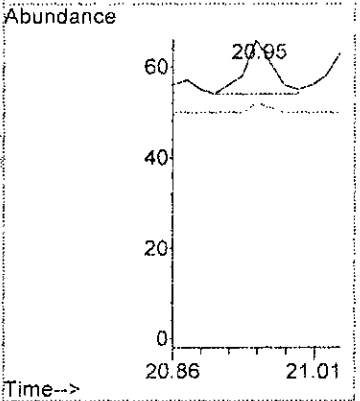
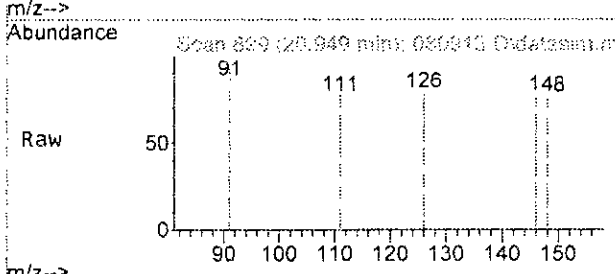




#70  
 Benzyl chloride  
 Concen: 0.004 ppbv  
 RT: 20.95 min Scan# 899  
 Delta R.T. 0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

Tgt Ion: 91 Resp: 24

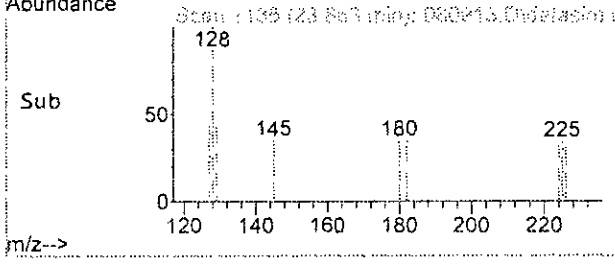
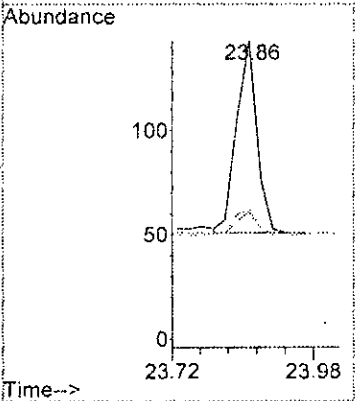
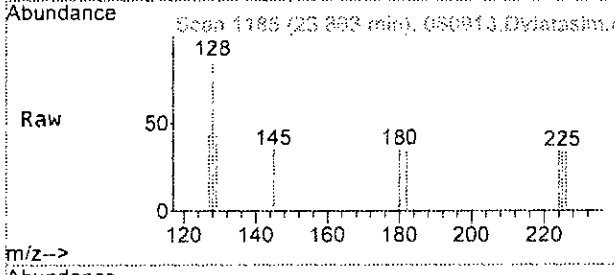
Ion	Ratio	Lower	Upper
91	100		
126	16.7	0.0	50.0



#77  
 Naphthalene  
 Concen: 0.032 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080913.D  
 Acq: 9 Aug 2023 6:20 pm

Tgt Ion: 128 Resp: 231

Ion	Ratio	Lower	Upper
128	100		
129	12.0	0.0	41.0
127	13.0	0.0	43.2



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Bromochloromethane	9.86	128	19141	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	78194	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	69576	10.000	ppbv	0.00
<b>System Monitoring Compounds</b>						
69) 4-Bromofluorobenzene	19.58	95	47201	9.155	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	91.60%	
<b>Target Compounds</b>						
						Qvalue
2) Propene	3.41	41	799		N.D.	
3) Dichlorodifluoromethane	3.49	85	3541	0.376	ppbv	97
4) Chloromethane	3.69	50	1316		N.D.	
5) F-114	0.00		0		N.D.	
6) Vinyl chloride	0.00		0		N.D.	
7] 1,3-Butadiene	4.21	54	72	0.030	ppbv #	40
8) Butane	4.32	43	1998		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	4.88	45	23208	22.309	ppbv	87
13] Acrolein	5.39	56	290	0.208	ppbv #	1
14) Pentane	6.25	43	1144		N.D.	
15) Trichlorofluoromethane	5.80	101	1080		N.D.	
16) Acetone	5.53	58	6074	4.733	ppbv	99
17) 2-Propanol	5.80	45	2720		N.D.	
18) 1,1-Dichloroethene	0.00		0		N.D.	
19) trans-1,2-Dichloroethene	0.00		0		N.D.	
20) Methylene chloride	6.75	84	2024		N.D.	
21) t-Butyl alcohol (TBA)	0.00		0		N.D.	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	7.22	76	533		N.D.	
25) Methyl t-butyl ether (...)	0.00		0		N.D.	
26) Vinyl acetate	8.49	43	1061		N.D.	
27) 1,1-Dichloroethane	0.00		0		N.D.	
28) cis-1,2-Dichloroethene	0.00		0		N.D.	
29) Hexane	9.99	57	128		N.D.	
30] Chloroform	10.07	83	236	0.029	ppbv	99
31) Ethyl acetate	9.92	43	2195		N.D.	
32) Tetrahydrofuran	0.00		0		N.D.	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34) 1,2-Dichloroethane (EDC)	0.00		0		N.D. d	
35) 1,1,1-Trichloroethane	11.51	97	101		N.D.	
36] Carbon tetrachloride	12.83	117	478	0.071	ppbv	99
37] Benzene	12.58	78	814m	0.076	ppbv	
38) Cyclohexane	13.12	84	123		N.D.	
40) 1,2-Dichloropropane	0.00		0		N.D. d	

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

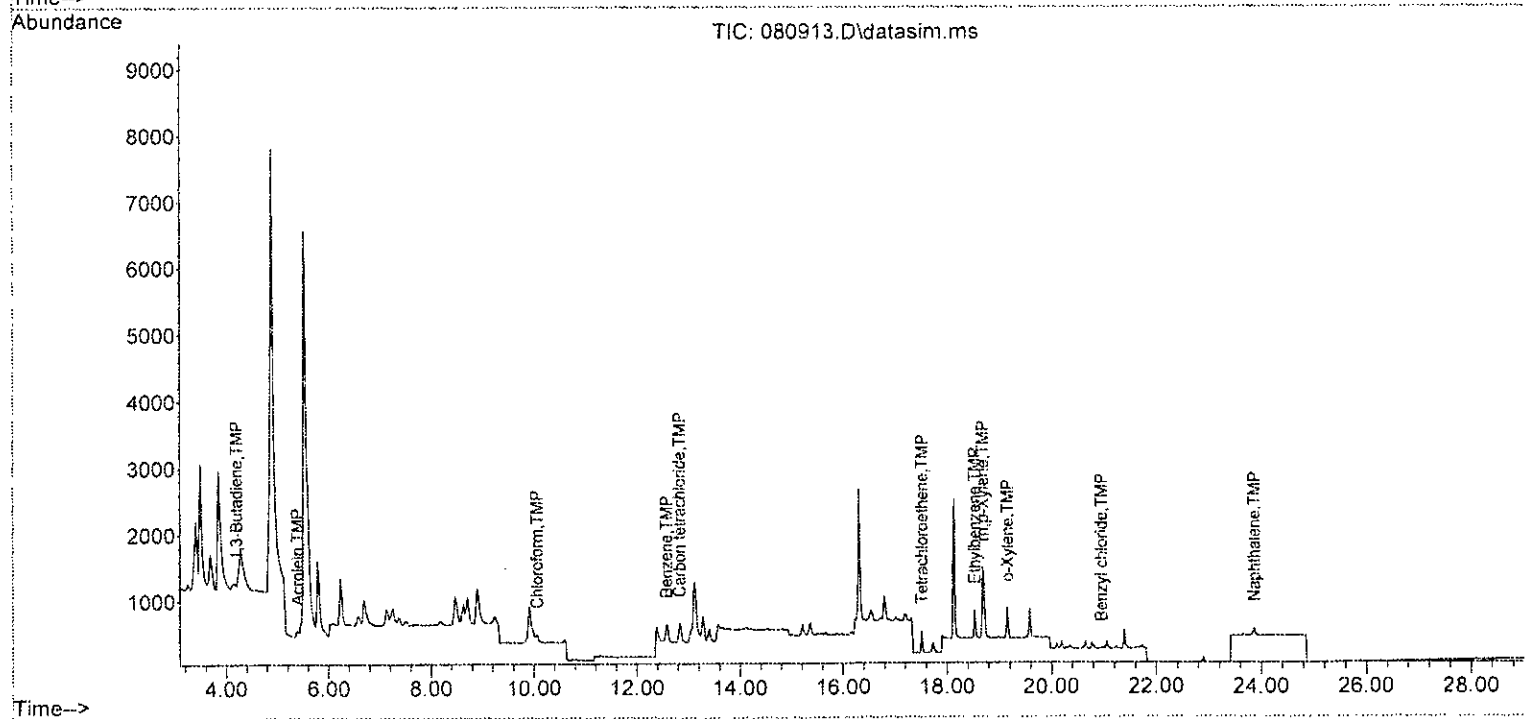
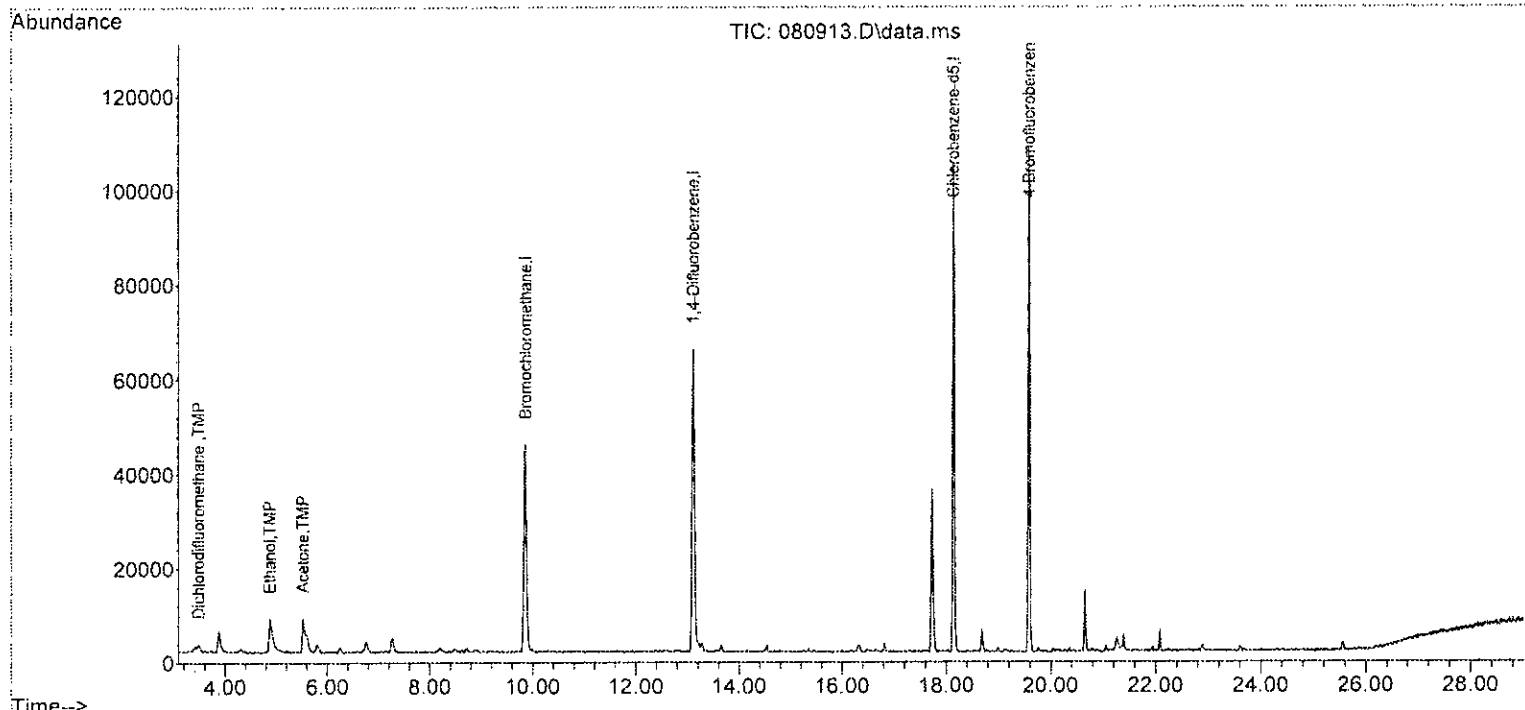
Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	14.21	57	359		N.D.	
43) Methyl methacrylate	14.53	41	586		N.D.	
44) Heptane	14.53	43	1022		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	14.12	95	37		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	2435		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.56	43	262		N.D.	
53] Tetrachloroethene	17.52	164	770	0.219	ppbv	91
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58] Ethylbenzene	18.53	91	636	0.051	ppbv	98
59) 1,1,2,2-Tetrachloroethane	19.13	83	38		N.D.	
60) Nonane	19.60	43	504		N.D.	
61) Isopropylbenzene	20.06	105	350		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	20.33	105	96		N.D.	
65] m,p-Xylene	18.68	106	741	0.175	ppbv	94
66] o-Xylene	19.15	106	238	0.062	ppbv	95
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70] Benzyl chloride	20.95	91	24	0.004	ppbv	93
71) 1,3,5-Trimethylbenzene	20.33	105	96		N.D.	
72) 1,2,4-Trimethylbenzene	20.81	105	375		N.D.	
73) 1,3-Dichlorobenzene	20.99	146	25		N.D.	
74) 1,4-Dichlorobenzene	21.05	146	87		N.D.	
75) 1,2-Dichlorobenzene	21.05	146	77		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.86	128	231	0.032	ppbv	99
78) Hexachlorobutadiene	0.00		0		N.D.	

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080913.D  
 Acq On : 9 Aug 2023 6:20 pm  
 Operator : bat  
 Sample : 308147-03  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:44 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

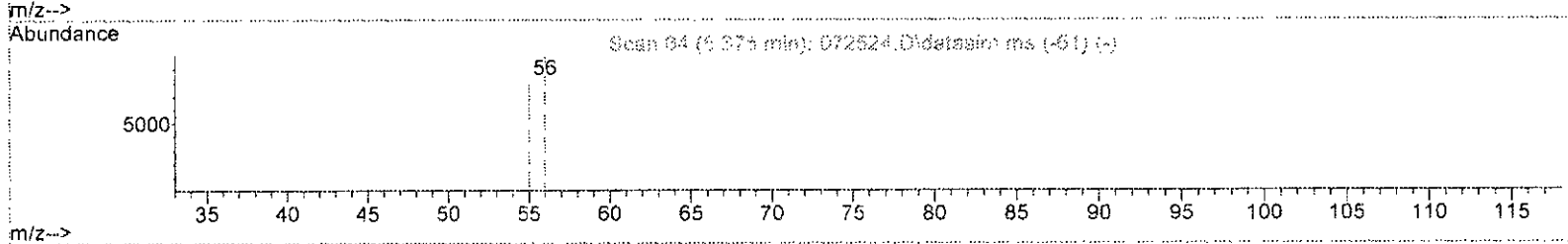
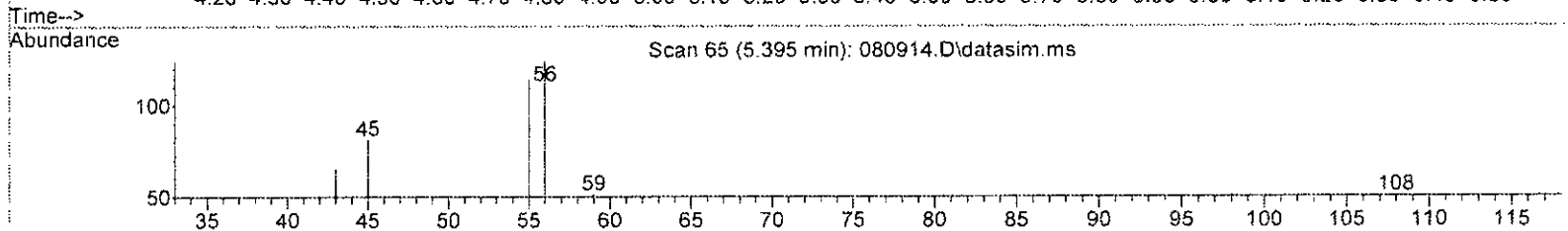
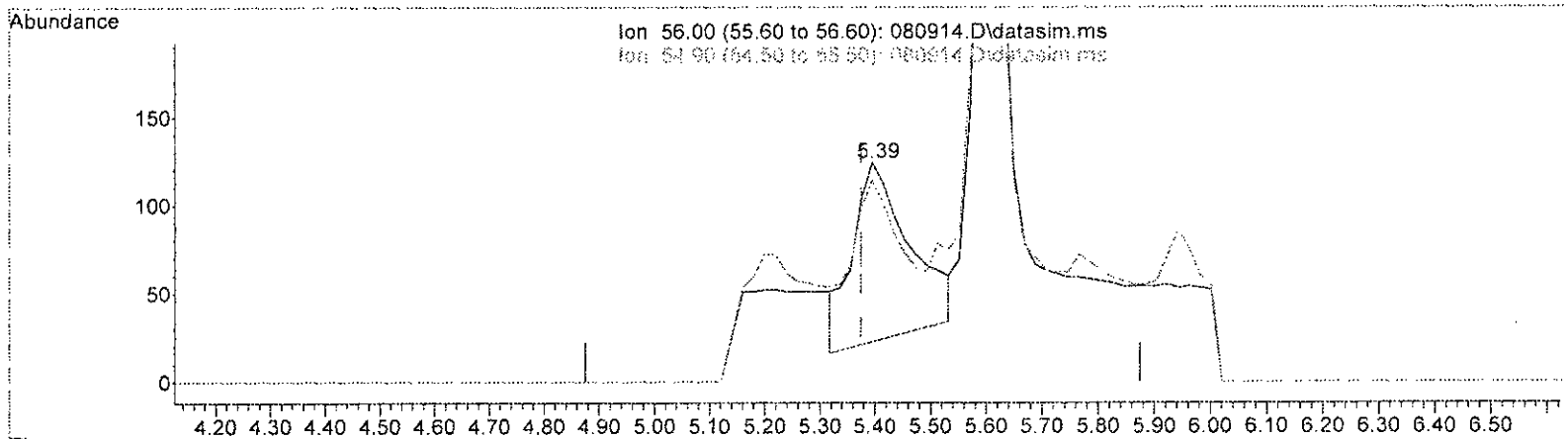




Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080914.D\data.ms

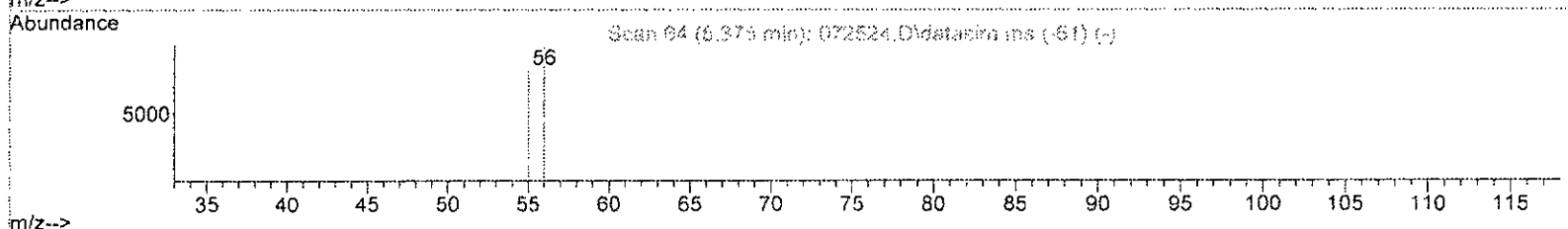
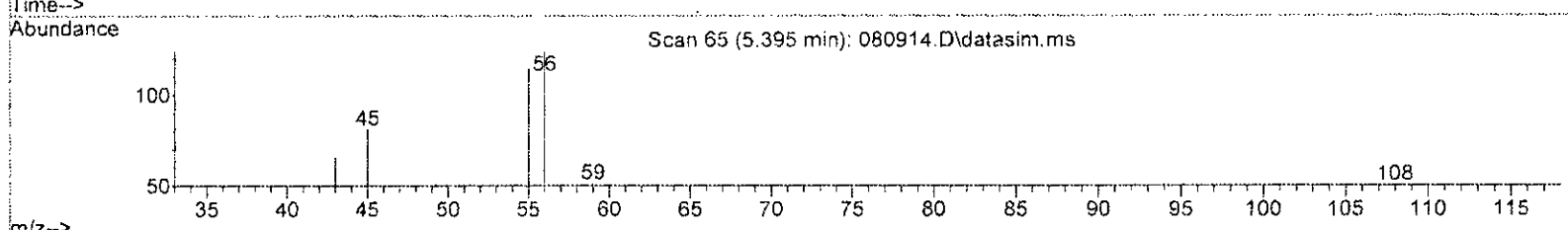
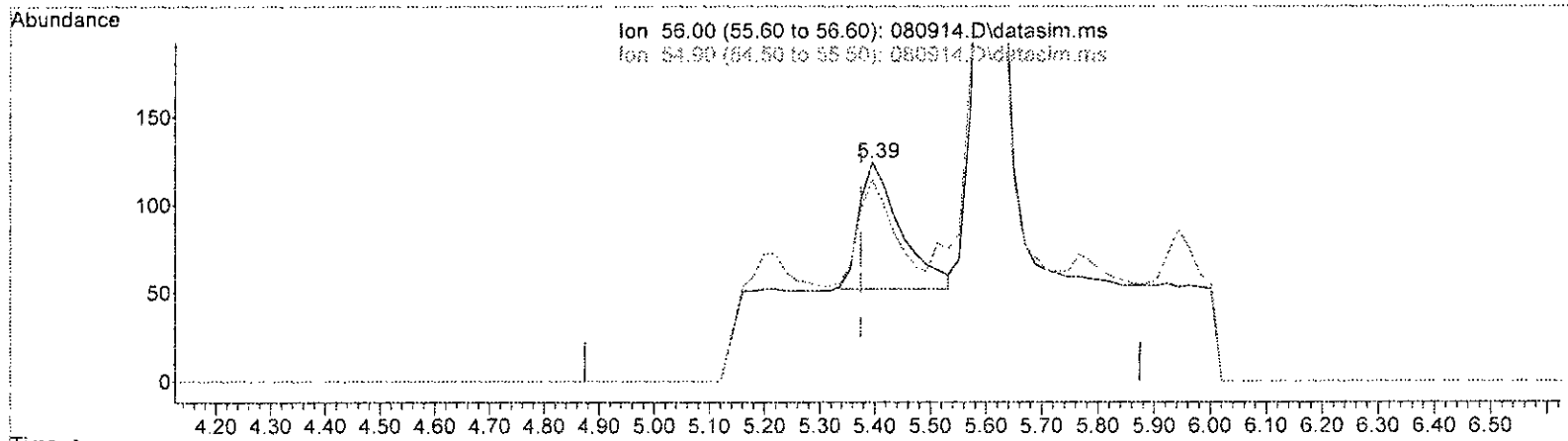
(13) Acrolein (TMP)		
5.395min (+ 0.020)	0.500	ppbv
response	722	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	74.10
0.00	0.00	0.00
0.00	0.00	0.00

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080914.D\data.ms

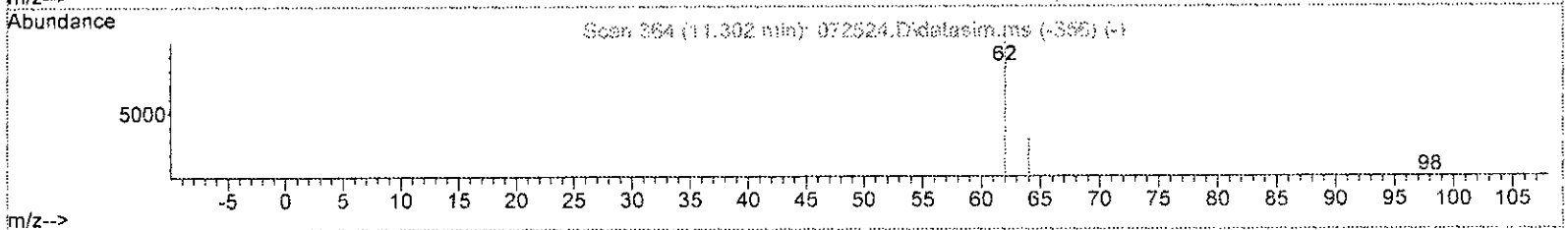
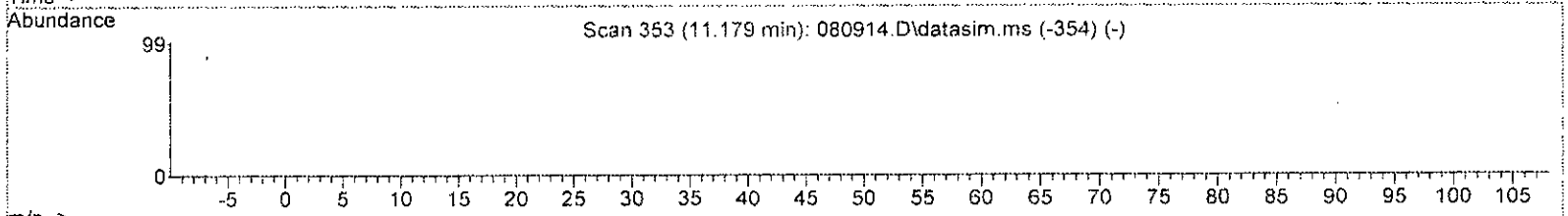
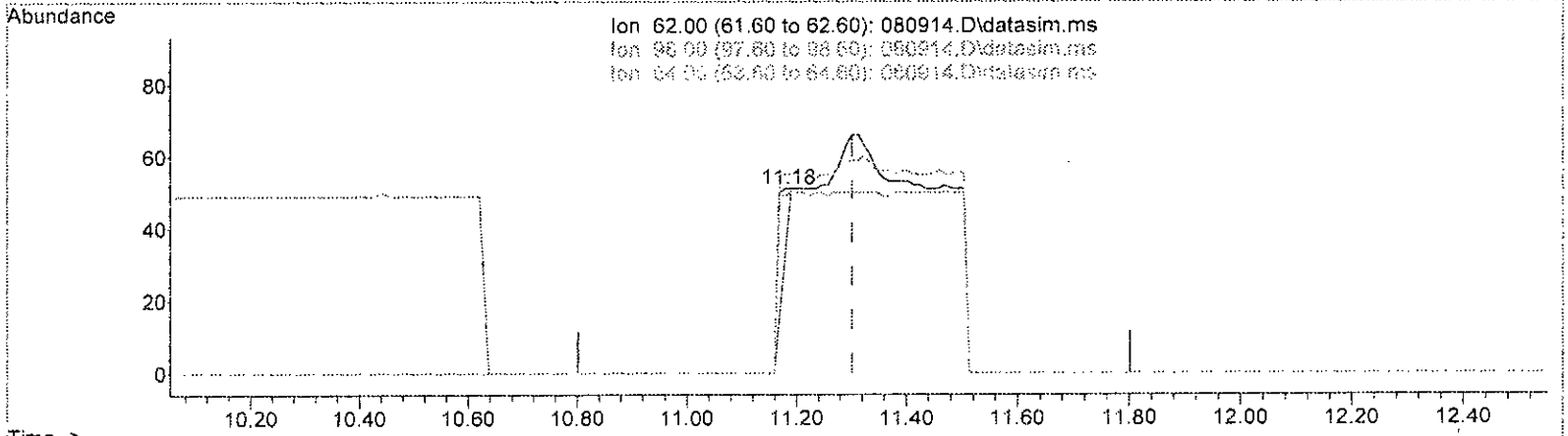
(13) Acrolein (TMP)		
5.395min (+ 0.020)	0.258	ppbv m
response	372	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	143.82#
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M



TIC: 080914.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.179min (-0.123) 0.009 ppbv

response 48

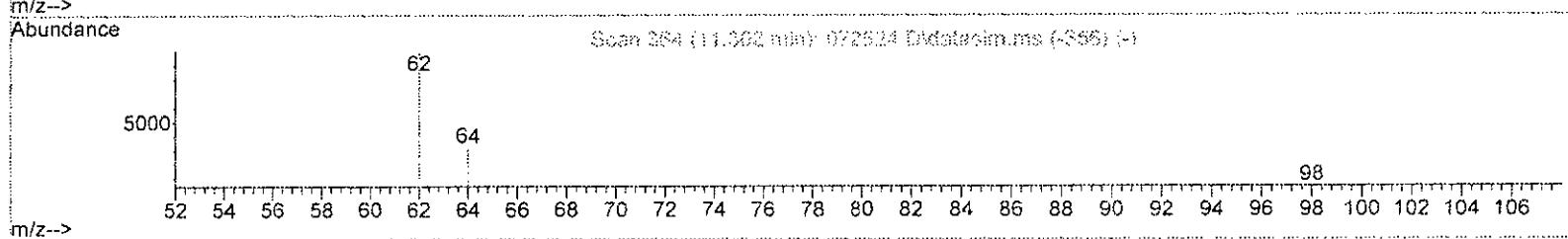
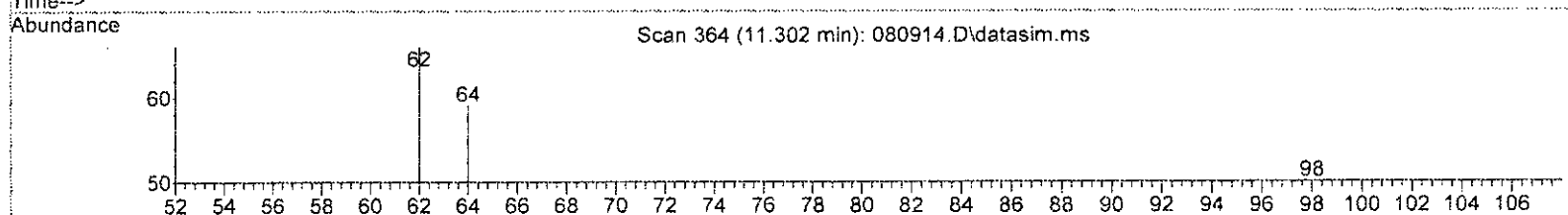
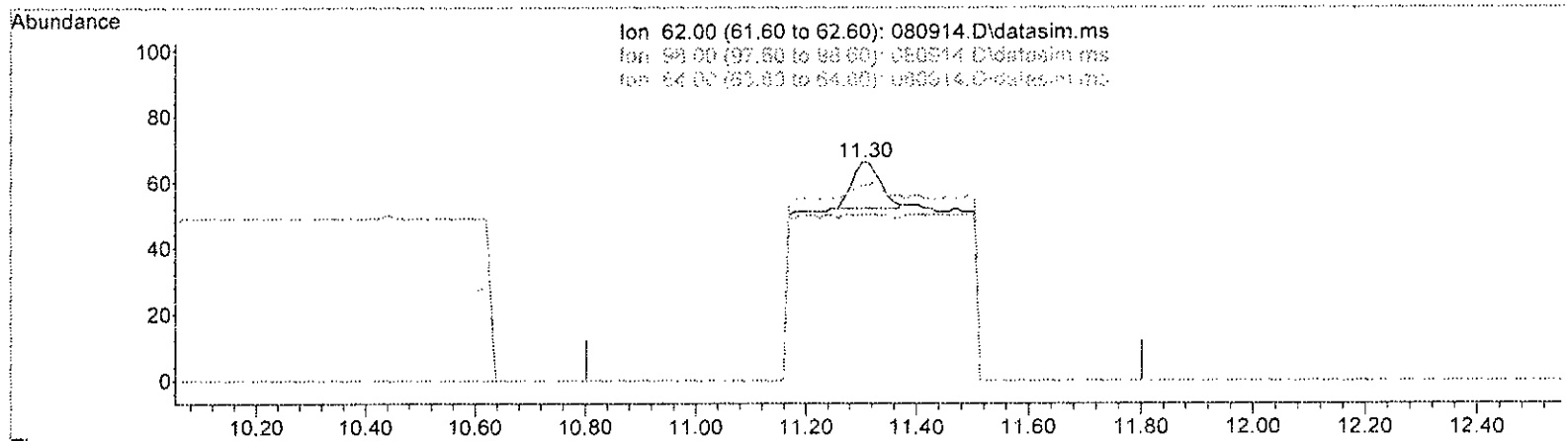
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	96.08#
64.00	33.00	107.84#
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080914.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.009 ppbv m

response 50

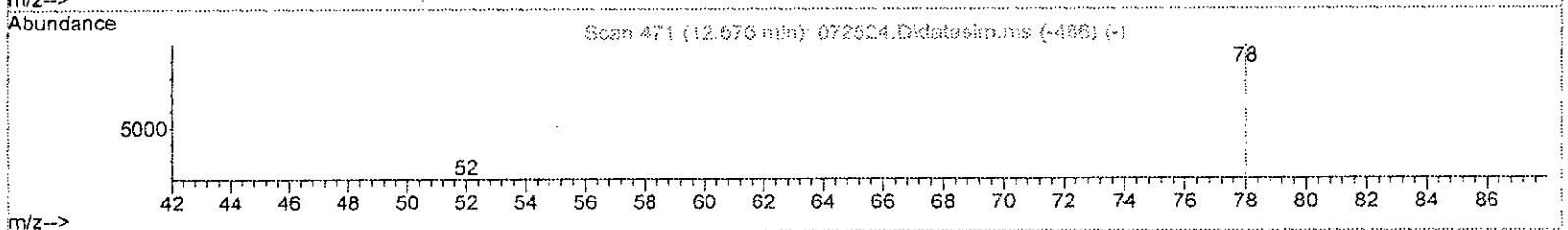
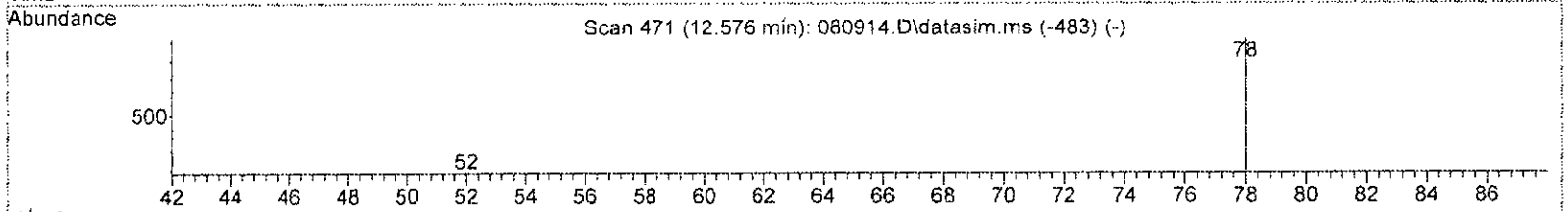
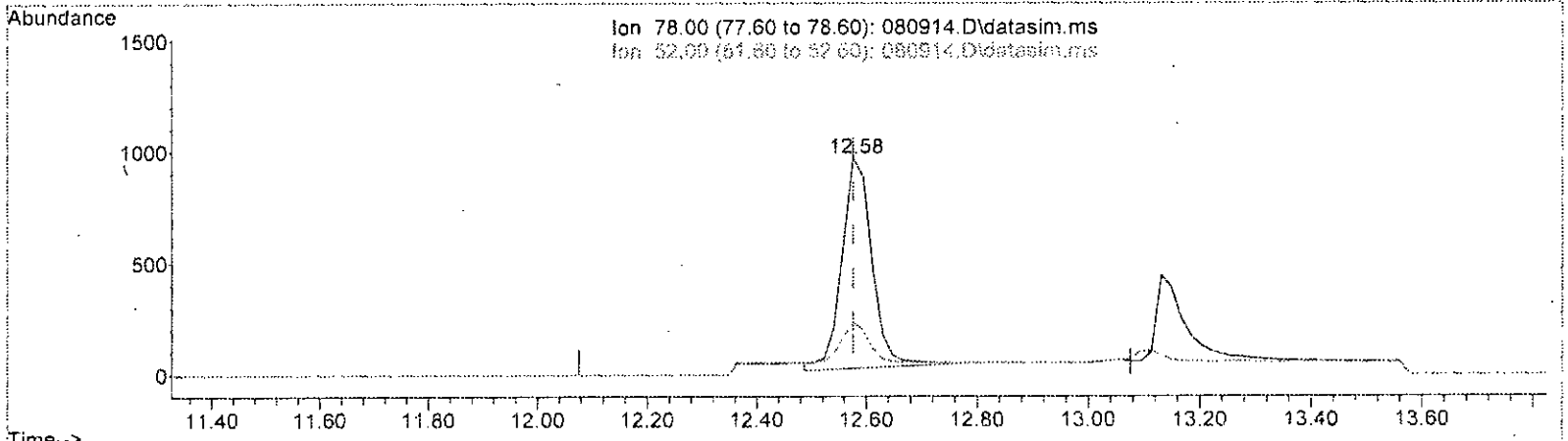
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	75.76#
64.00	33.00	89.39#
0.00	0.00	0.00

MD  
8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080914.D\data.ms

Ion	Exp%	Ac%
78.00	100.00	100.00
52.00	19.70	19.83
0.00	0.00	0.00
0.00	0.00	0.00

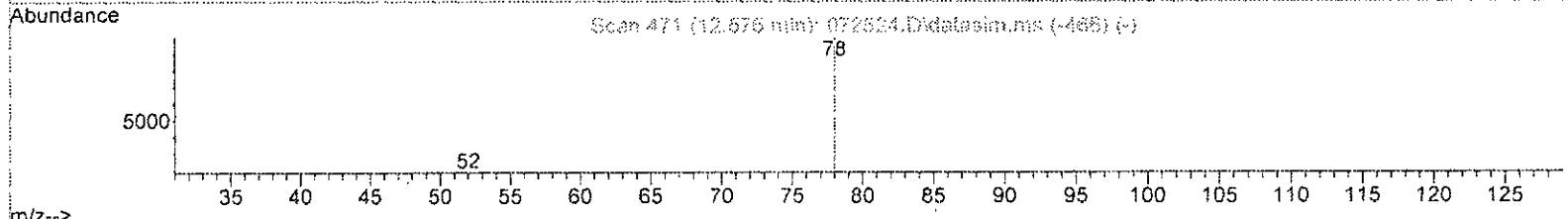
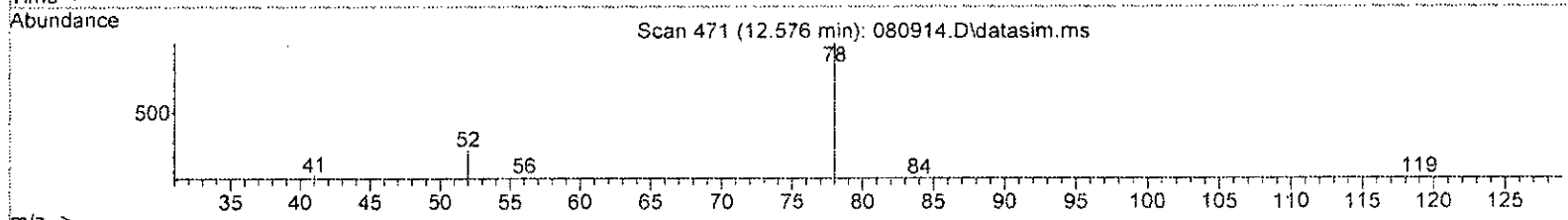
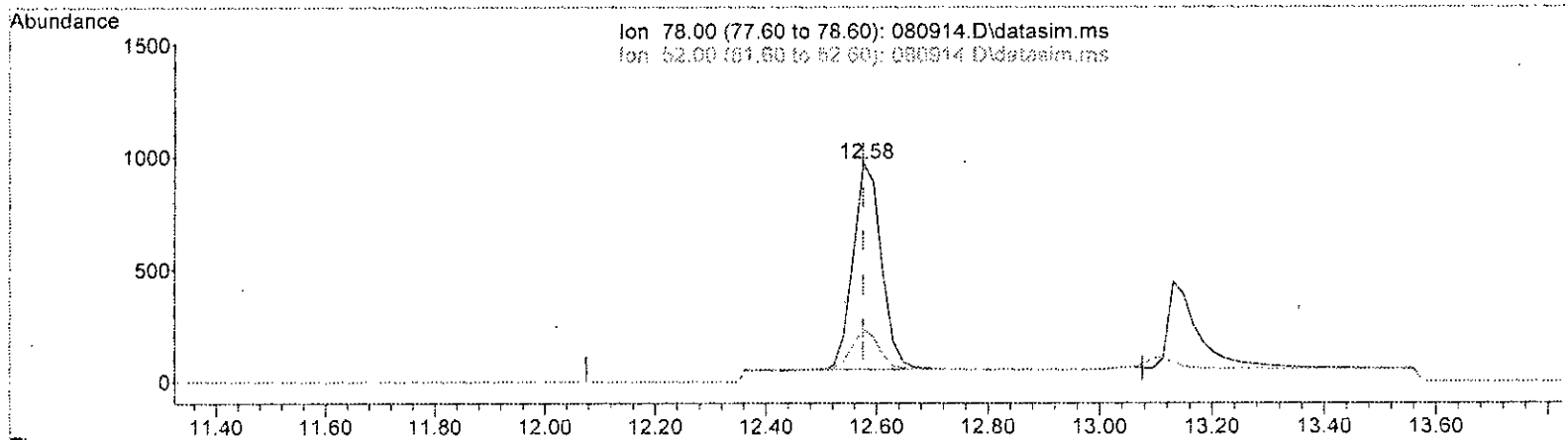
(37) Benzene (TMP)  
 12.576min (+ 0.000) 0.325 ppbv  
 response 3603

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080914.D\data.ms

(37) Benzene (TMP)			
12.576min (+ 0.000)	0.293 ppbv m		
response	3249		
Ion	Exp%	Act%	
78.00	100.00	100.00	
52.00	19.70	24.30	
0.00	0.00	0.00	
0.00	0.00	0.00	

*MD 8/10/23*

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

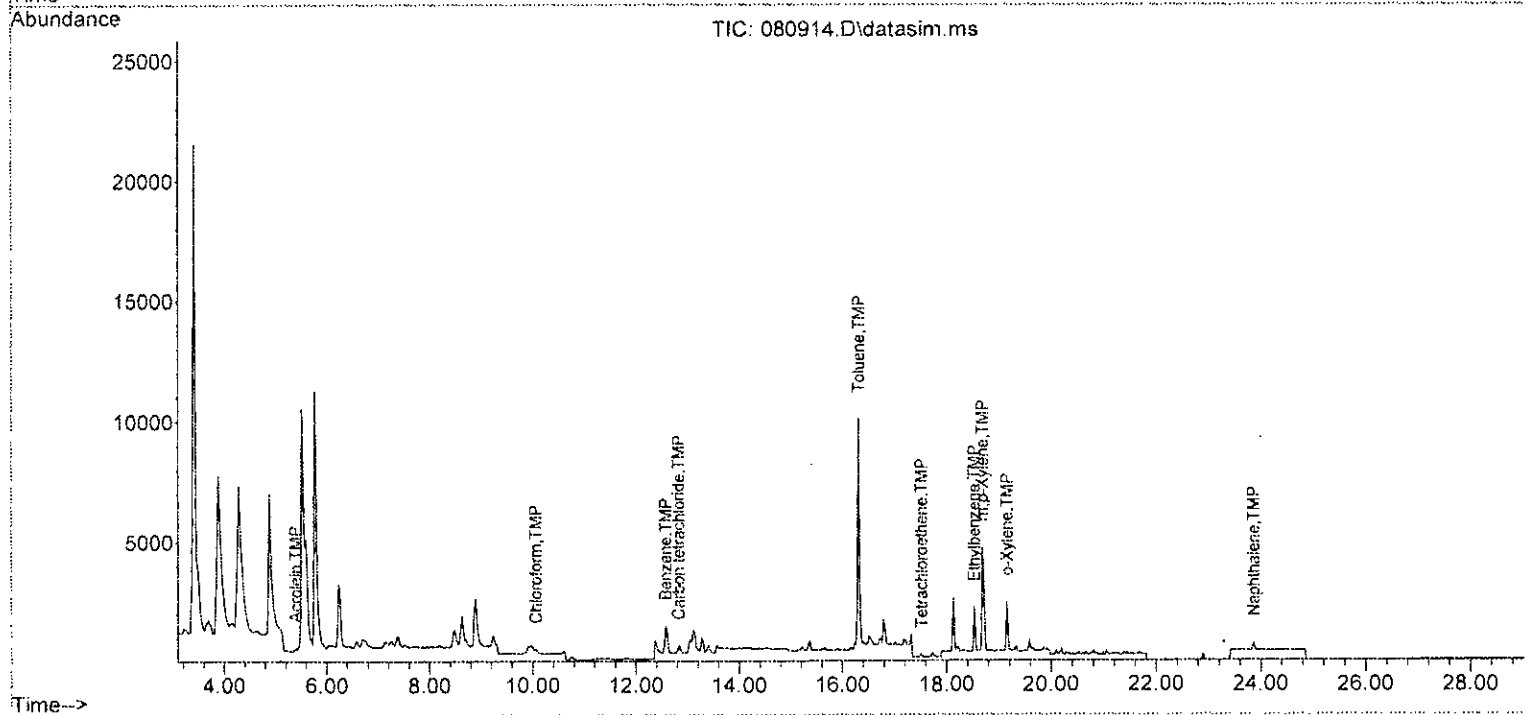
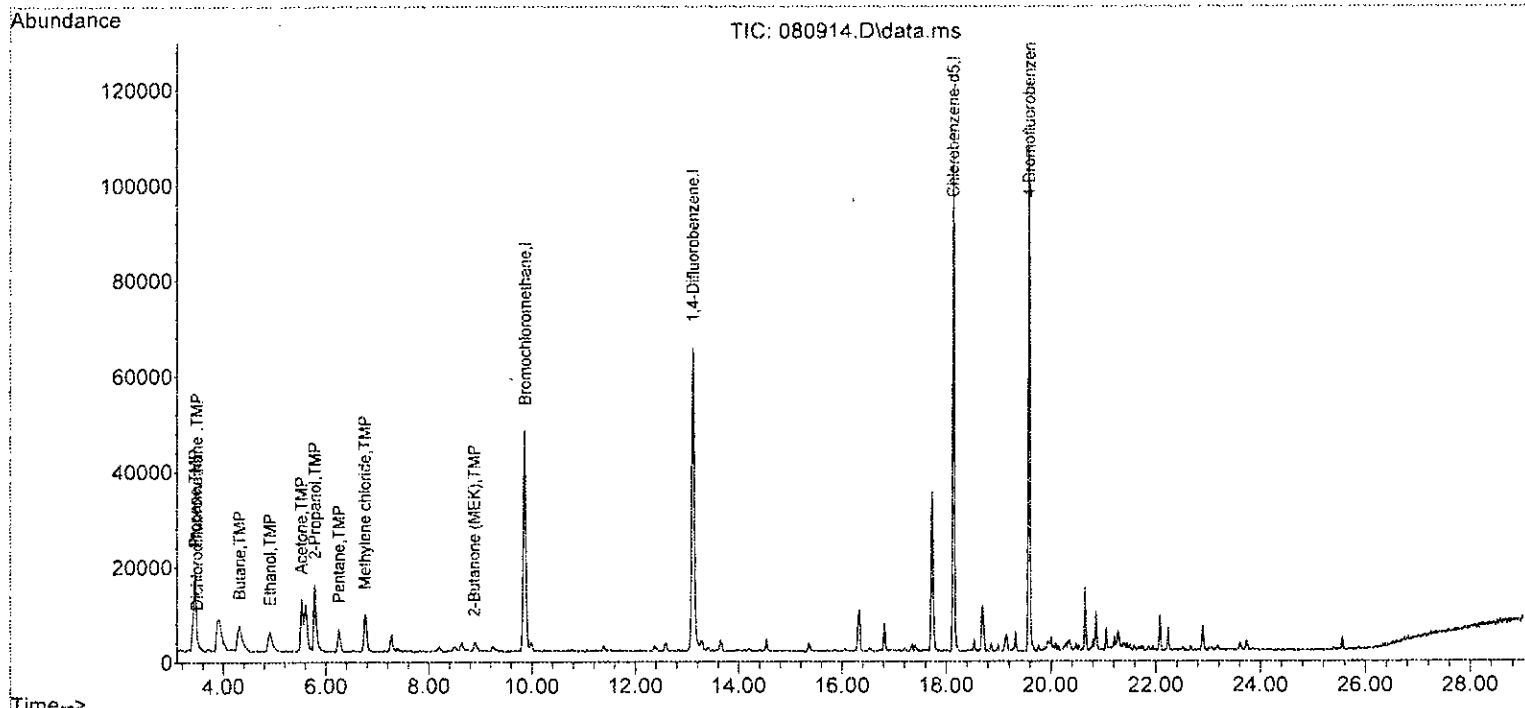
Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	19797	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	78991	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	70176	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	48779	9.380	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.80%	
Target Compounds						
						Qvalue
2) Propene	3.45	41	9695	4.011	ppbv #	33
3) Dichlorodifluoromethane	3.49	85	3240	0.333	ppbv	85
8) Butane	4.32	43	18363	3.735	ppbv	91
12) Ethanol	4.92	45	15582	14.482	ppbv	91
13] Acrolein	5.39	56	372m	0.258	ppbv	
14) Pentane	6.25	43	5313	0.945	ppbv	97
16) Acetone	5.53	58	8800	6.630	ppbv	93
17) 2-Propanol	5.78	45	31819	5.485	ppbv	100
20) Methylene chloride	6.75	84	7317	2.305	ppbv	97
30] Chloroform	10.07	83	336	0.041	ppbv	99
33) 2-Butanone (MEK)	8.88	72	817	0.691	ppbv #	85
36] Carbon tetrachloride	12.83	117	490	0.070	ppbv	96
37] Benzene	12.58	78	3249m	0.293	ppbv	
50] Toluene	16.31	92	8268	1.376	ppbv	92
53] Tetrachloroethene	17.52	164	507	0.143	ppbv	94
58] Ethylbenzene	18.53	91	2755	0.218	ppbv	99
65] m,p-Xylene	18.68	106	3254	0.764	ppbv	91
66] o-Xylene	19.15	106	1015	0.261	ppbv	90
77] Naphthalene	23.86	128	610	0.084	ppbv	99

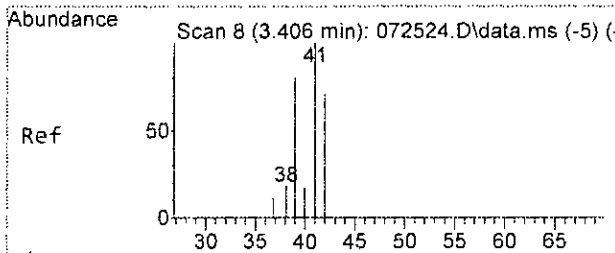
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M

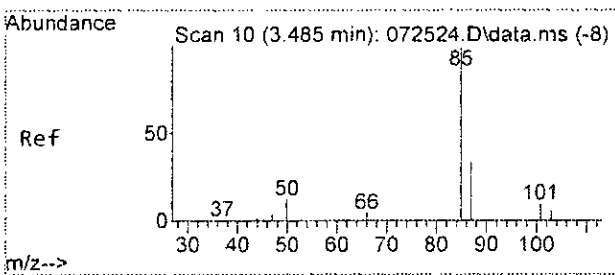
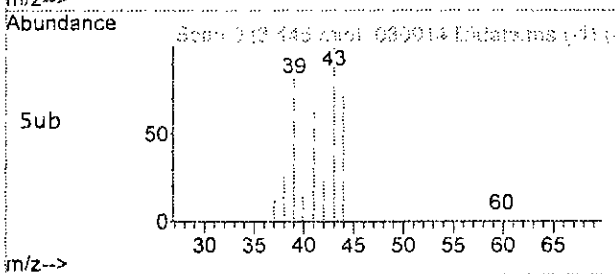
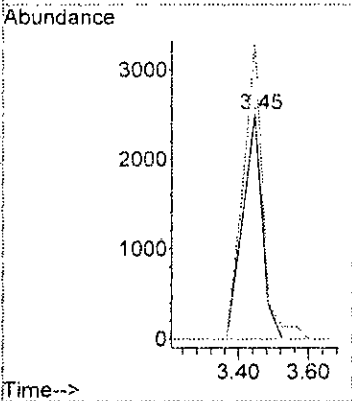
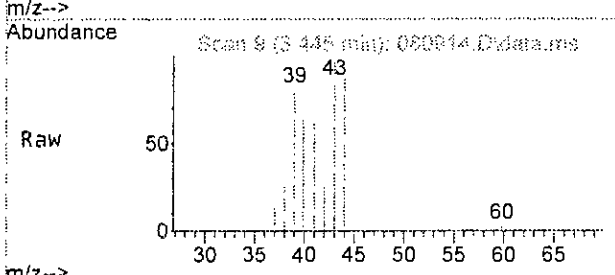






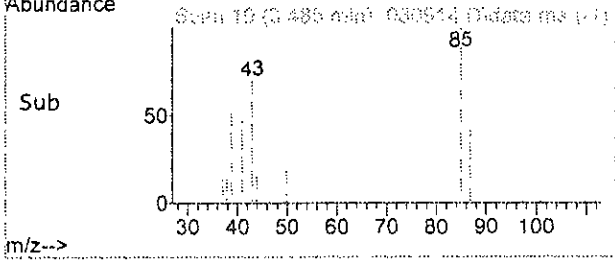
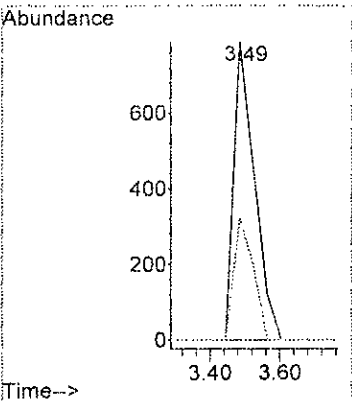
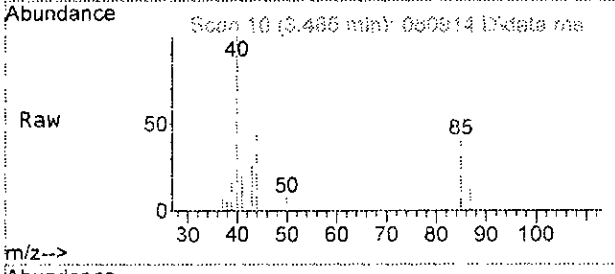
#2  
 Propene  
 Concen: 4.011 ppbv  
 RT: 3.45 min Scan# 9  
 Delta R.T. 0.039 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

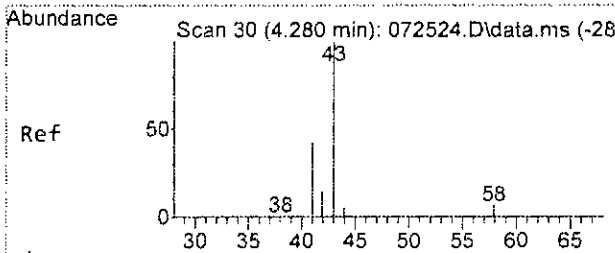
Tgt Ion	Resp	Lower	Upper
41	100		
39	132.5	45.6	105.6
27	0.0	0.0	30.0



#3  
 Dichlorodifluoromethane  
 Concen: 0.333 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

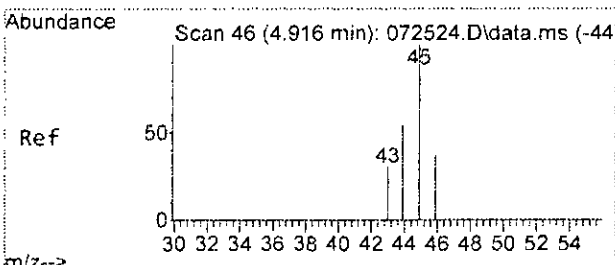
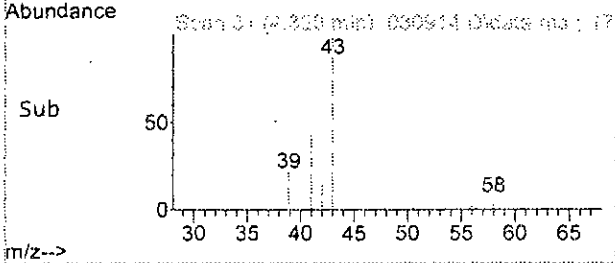
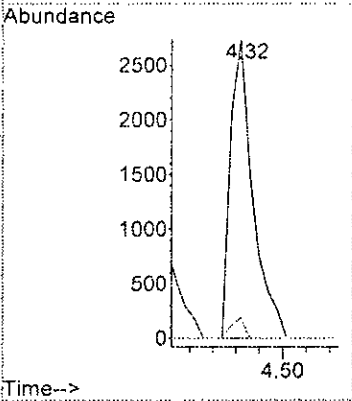
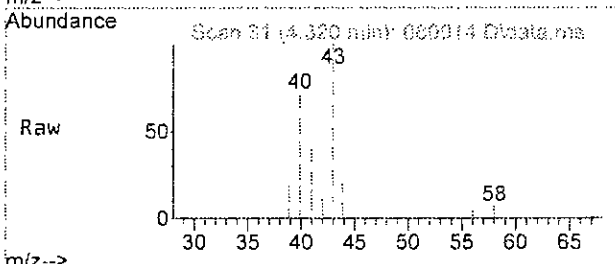
Tgt Ion	Resp	Lower	Upper
85	100		
87	40.8	2.2	62.2





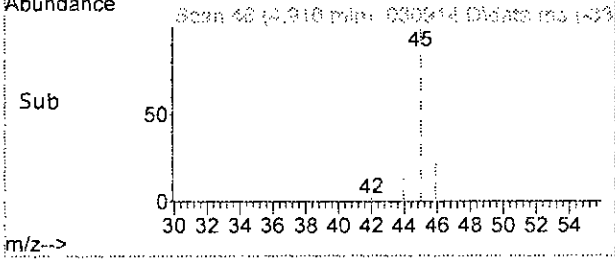
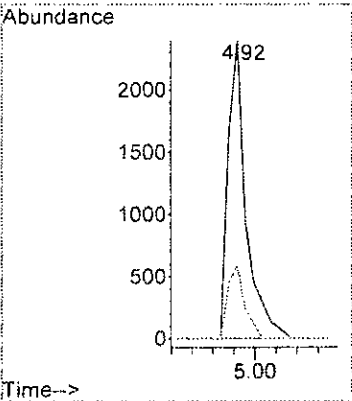
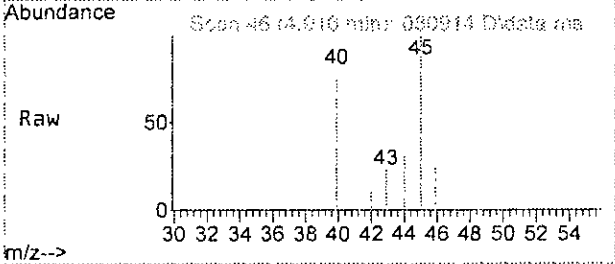
#8  
 Butane  
 Concen: 3.735 ppbv  
 RT: 4.32 min Scan# 31  
 Delta R.T. 0.040 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

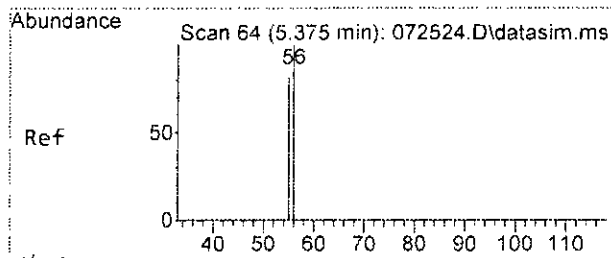
Tgt Ion	Resp	Lower	Upper
43	18363		
58	4.0	0.0	36.9



#12  
 Ethanol  
 Concen: 14.482 ppbv  
 RT: 4.92 min Scan# 46  
 Delta R.T. -0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

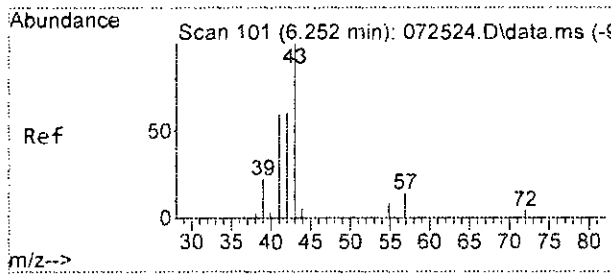
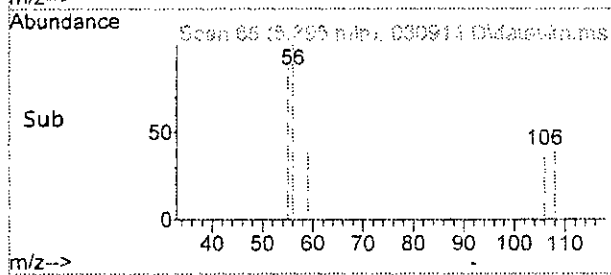
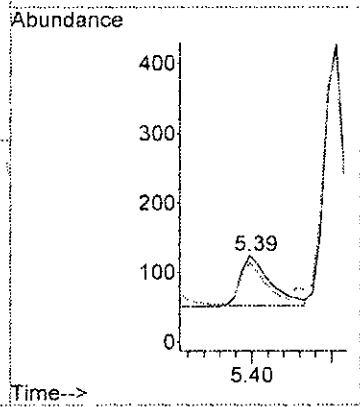
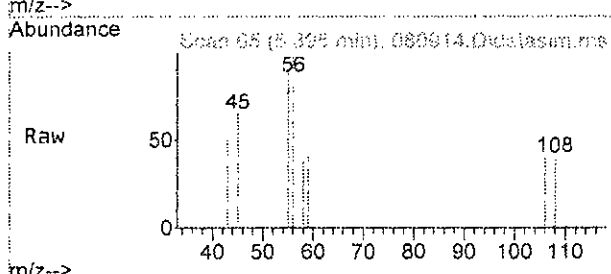
Tgt Ion	Resp	Lower	Upper
45	15582		
46	21.1	0.0	55.5





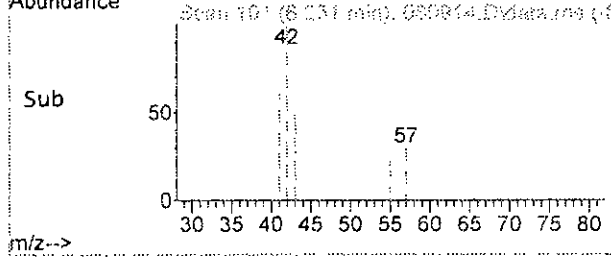
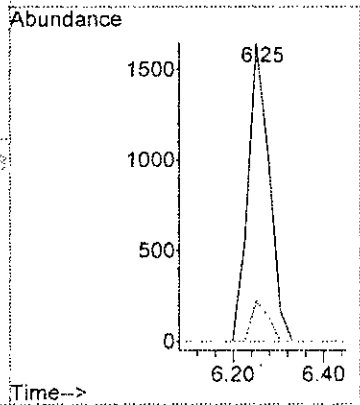
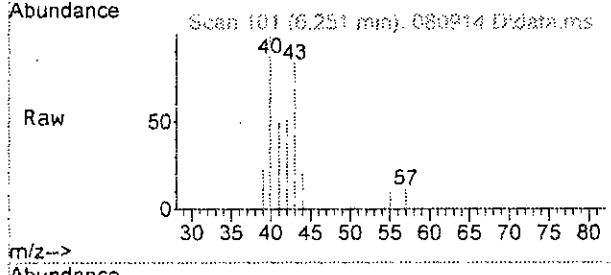
#13  
 Acrolein  
 Concen: 0.258 ppbv m  
 RT: 5.39 min Scan# 65  
 Delta R.T. 0.020 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

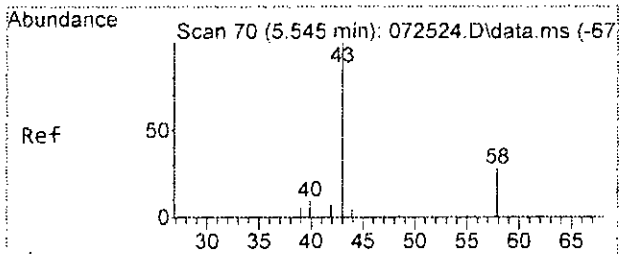
Tgt Ion	Resp	Lower	Upper
56	100		
55	143.8	51.0	111.0#



#14  
 Pentane  
 Concen: 0.945 ppbv  
 RT: 6.25 min Scan# 101  
 Delta R.T. -0.001 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

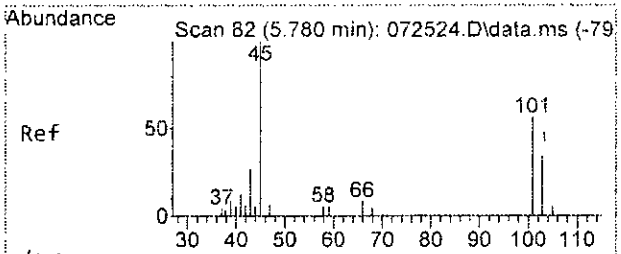
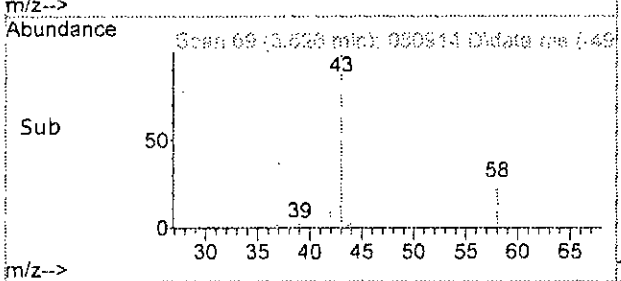
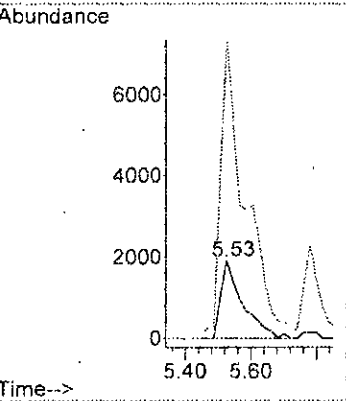
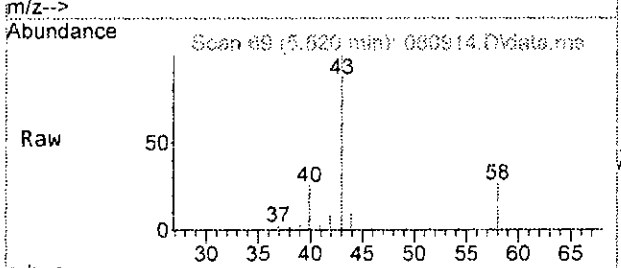
Tgt Ion	Resp	Lower	Upper
43	100		
57	13.5	0.0	43.5
72	0.0	0.0	34.2





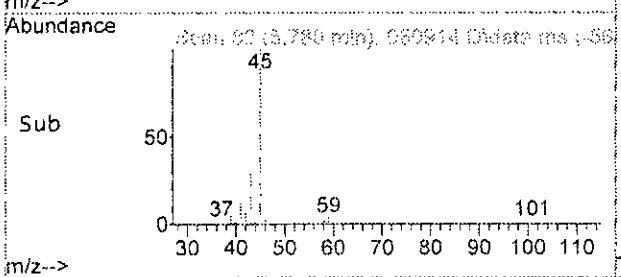
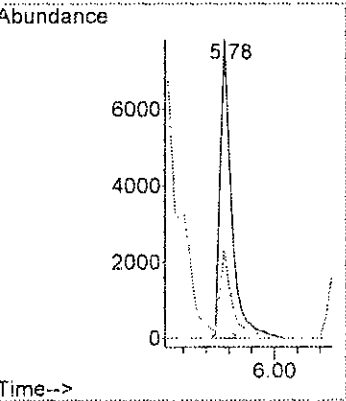
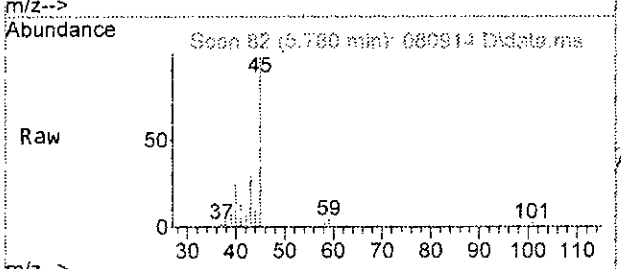
#16  
 Acetone  
 Concen: 6.630 ppbv  
 RT: 5.53 min Scan# 69  
 Delta R.T. -0.019 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

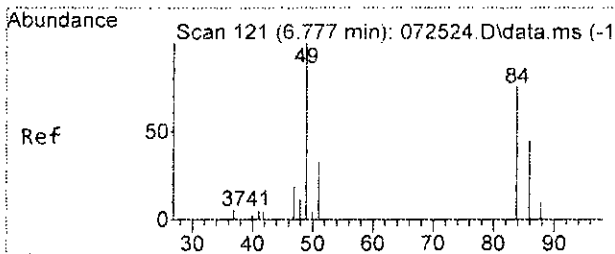
Tgt Ion	Resp	Lower	Upper
58	100		
43	374.2	329.3	389.3



#17  
 2-Propanol  
 Concen: 5.485 ppbv  
 RT: 5.78 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

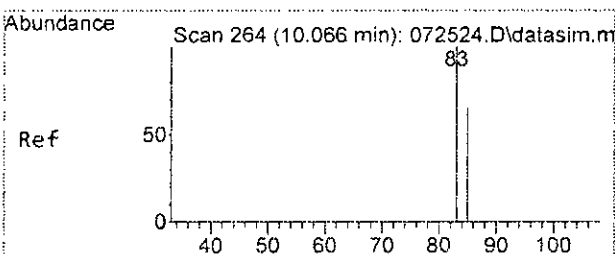
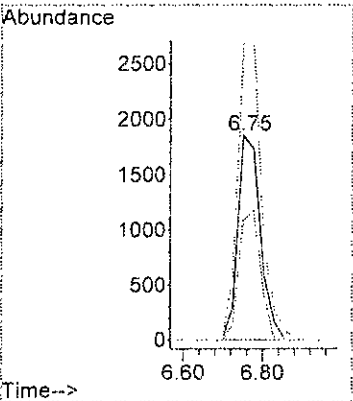
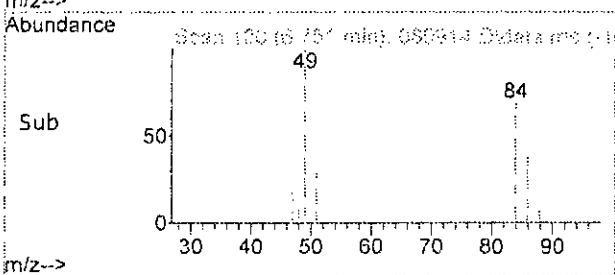
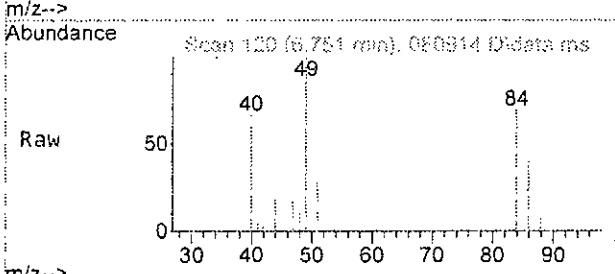
Tgt Ion	Resp	Lower	Upper
45	100		
43	29.5	0.0	30.0
59	3.5	0.0	33.6





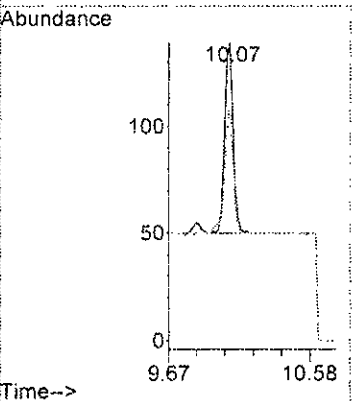
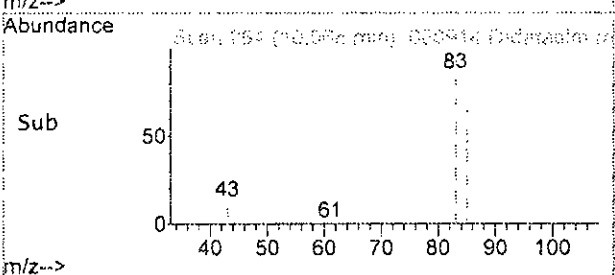
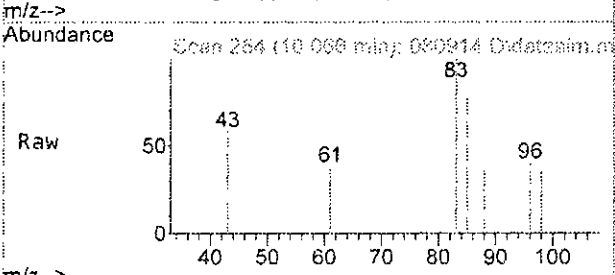
#20  
 Methylene chloride  
 Concen: 2.305 ppbv  
 RT: 6.75 min Scan# 120  
 Delta R.T. -0.026 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

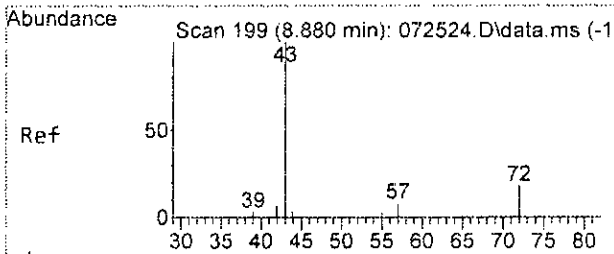
Tgt Ion	Resp	Lower	Upper
84	100		
86	58.7	33.9	93.9
49	145.7	116.6	176.6



#30  
 Chloroform  
 Concen: 0.041 ppbv  
 RT: 10.07 min Scan# 264  
 Delta R.T. -0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

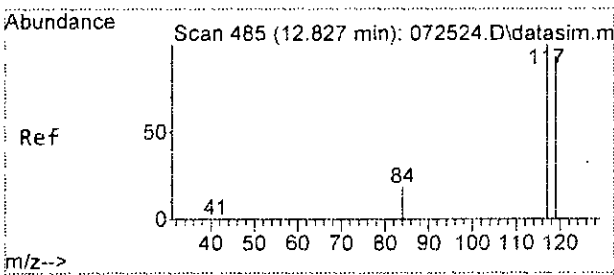
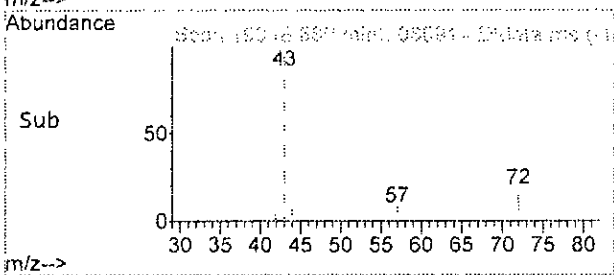
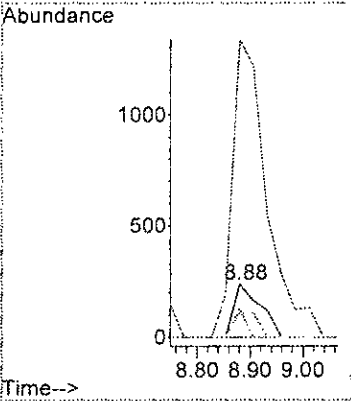
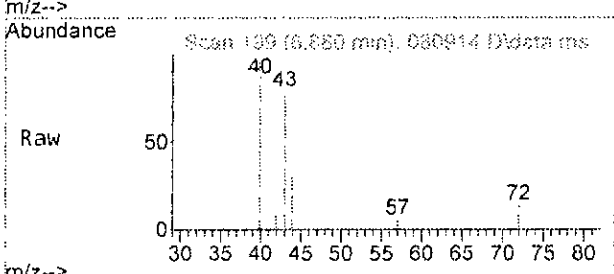
Tgt Ion	Resp	Lower	Upper
83	100		
85	67.4	36.3	96.3





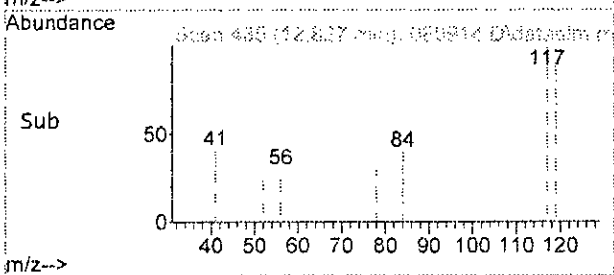
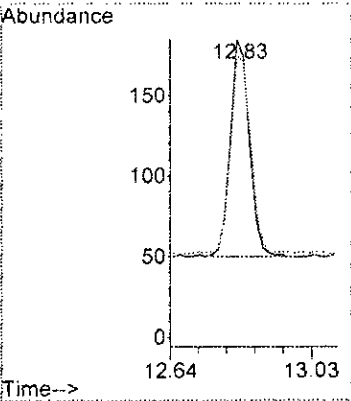
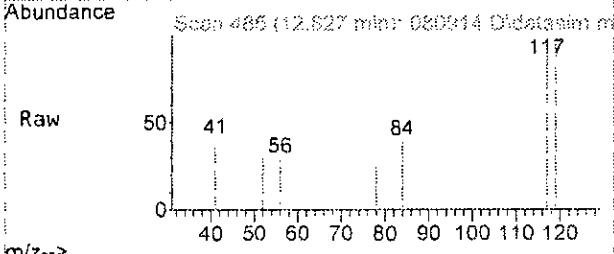
#33  
 2-Butanone (MEK)  
 Concen: 0.691 ppbv  
 RT: 8.88 min Scan# 199  
 Delta R.T. 0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

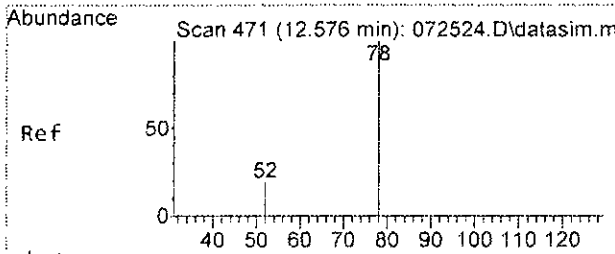
Tgt Ion	Resp	Lower	Upper
72	100		
42	53.6	0.0	59.9
57	45.1	14.2	74.2
43	564.1	501.6	541.6#



#36  
 Carbon tetrachloride  
 Concen: 0.070 ppbv  
 RT: 12.83 min Scan# 485  
 Delta R.T. -0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

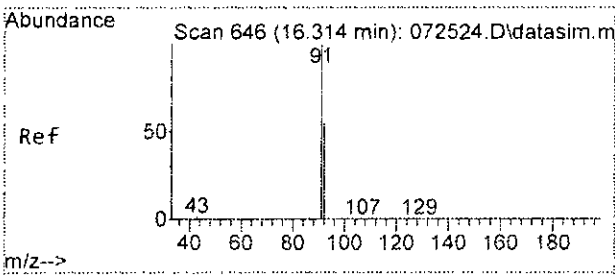
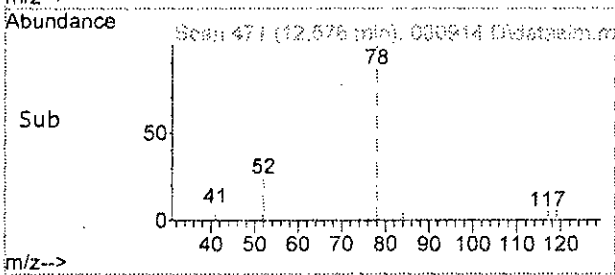
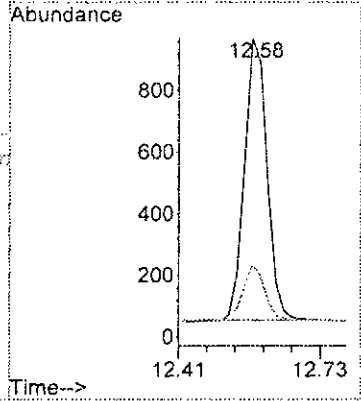
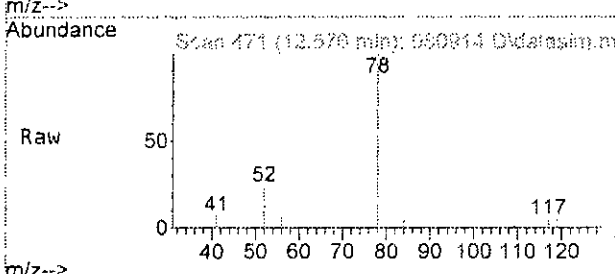
Tgt Ion	Resp	Lower	Upper
117	100		
119	91.1	64.6	124.6





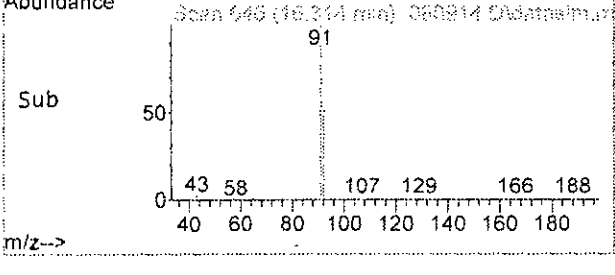
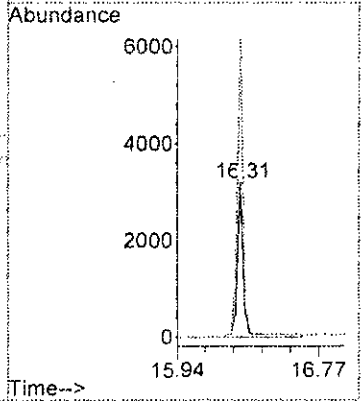
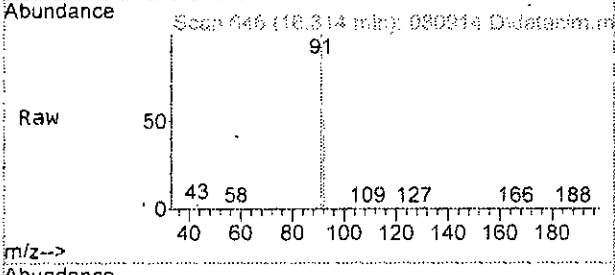
#37  
Benzene  
Concen: 0.293 ppbv m  
RT: 12.58 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: 080914.D  
Acq: 9 Aug 2023 7:11 pm

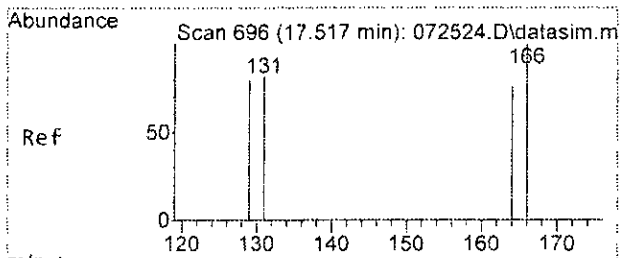
Tgt Ion: 78 Resp: 3249  
Ion Ratio Lower Upper  
78 100  
52 24.3 0.0 49.7



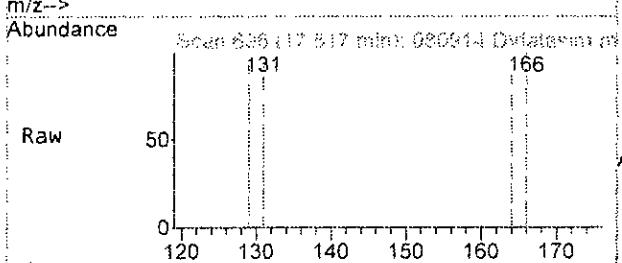
#50  
Toluene  
Concen: 1.376 ppbv  
RT: 16.31 min Scan# 646  
Delta R.T. 0.000 min  
Lab File: 080914.D  
Acq: 9 Aug 2023 7:11 pm

Tgt Ion: 92 Resp: 8268  
Ion Ratio Lower Upper  
92 100  
91 192.5 174.6 234.6



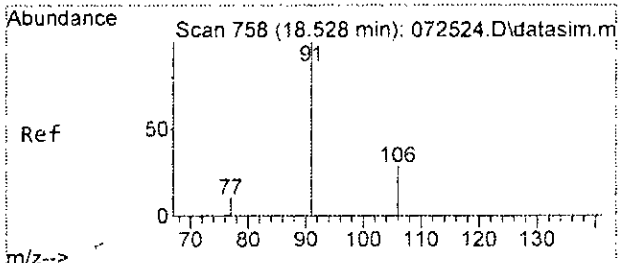
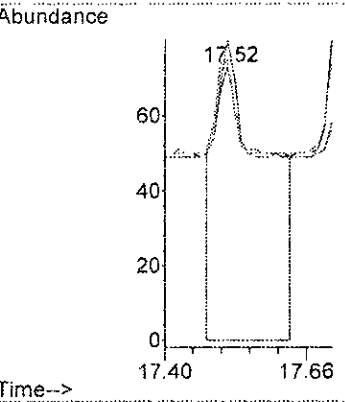
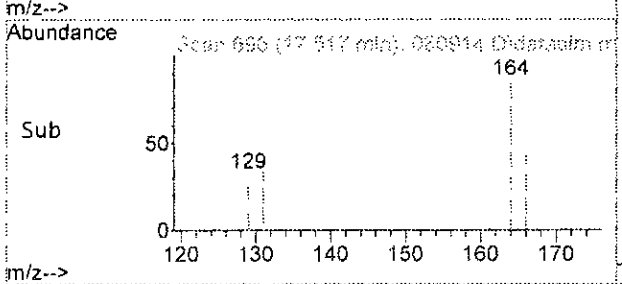


#53  
 Tetrachloroethene  
 Concen: 0.143 ppbv  
 RT: 17.52 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

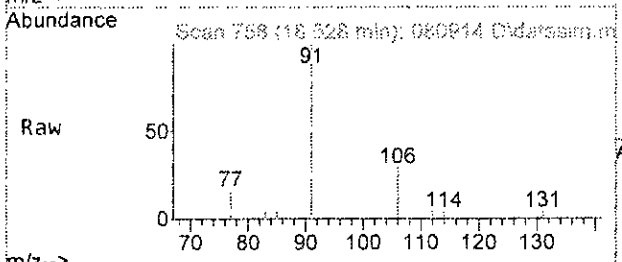


Tgt Ion: 164 Resp: 507

Ion	Ratio	Lower	Upper
164	100		
129	100.0	63.2	123.2
131	104.2	70.7	130.7
166	129.2	107.5	167.5

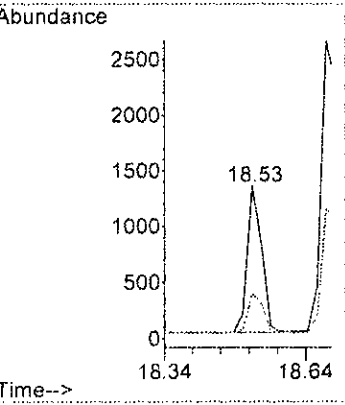
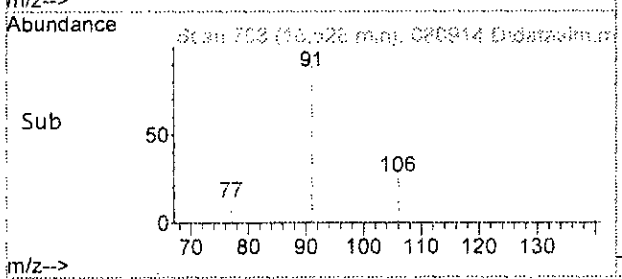


#58  
 Ethylbenzene  
 Concen: 0.218 ppbv  
 RT: 18.53 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

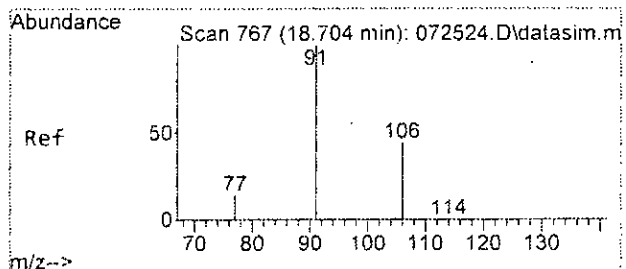


Tgt Ion: 91 Resp: 2755

Ion	Ratio	Lower	Upper
91	100		
106	26.5	0.0	57.0

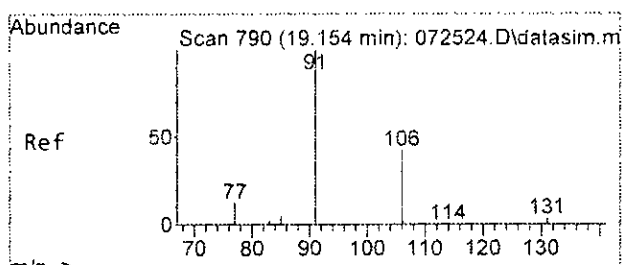
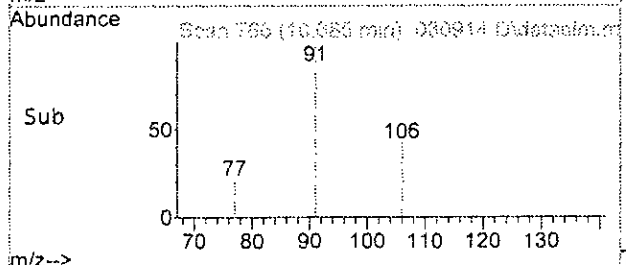
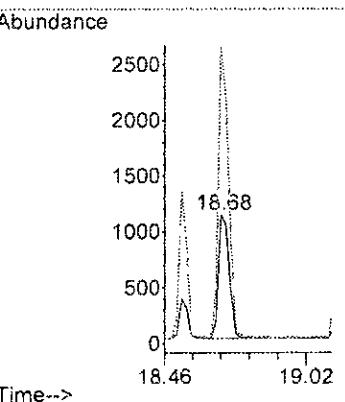
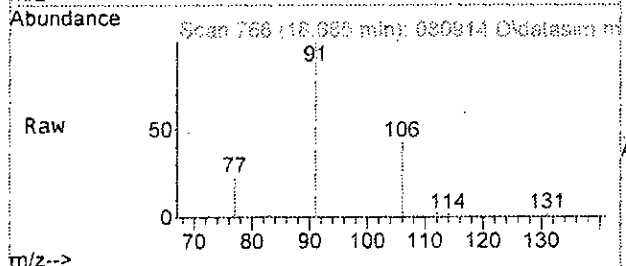






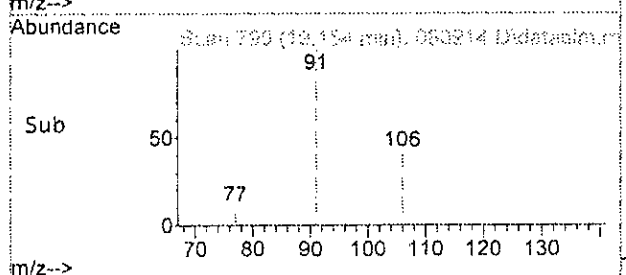
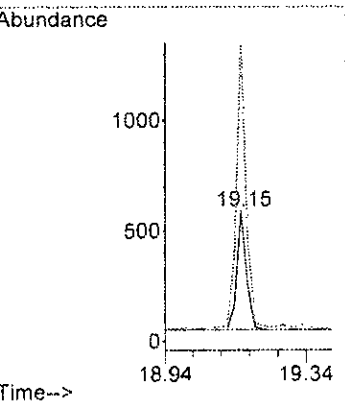
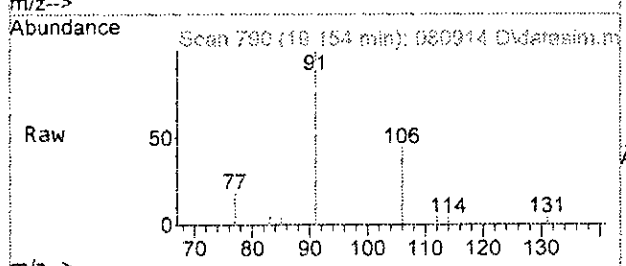
#65  
 m,p-Xylene  
 Concen: 0.764 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

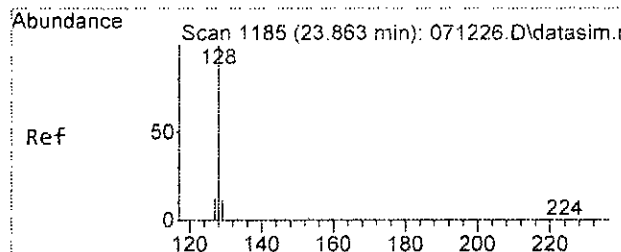
Tgt Ion:106 Resp: 3254  
 Ion Ratio Lower Upper  
 106 100  
 91 237.1 193.0 253.0



#66  
 o-Xylene  
 Concen: 0.261 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

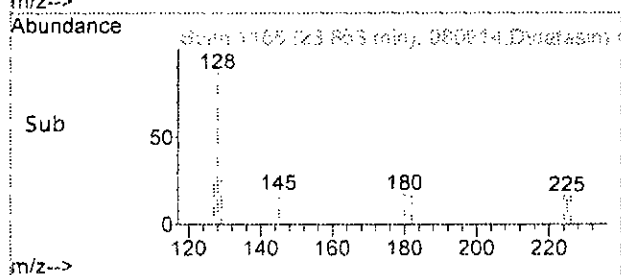
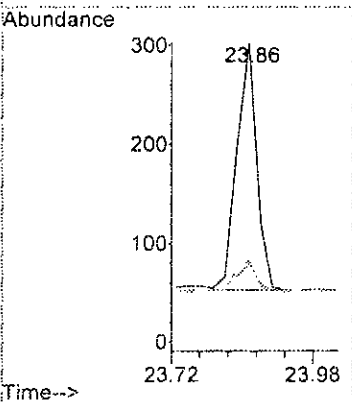
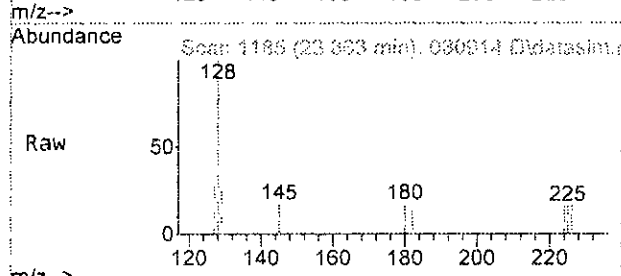
Tgt Ion:106 Resp: 1015  
 Ion Ratio Lower Upper  
 106 100  
 91 240.4 194.4 254.4





#77  
 Naphthalene  
 Concen: 0.084 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080914.D  
 Acq: 9 Aug 2023 7:11 pm

Tgt Ion	Resp	Lower	Upper
128	100		
129	10.4	0.0	41.0
127	12.9	0.0	43.2



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	19797	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	78991	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	70176	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	48779	9.380	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.80%	
Target Compounds						
						Qvalue
2) Propene	3.45	41	9695	4.011	ppbv #	33
3) Dichlorodifluoromethane	3.49	85	3240	0.333	ppbv	85
4) Chloromethane	3.69	50	1117	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	4.32	43	18363	3.735	ppbv	91
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.92	45	15582	14.482	ppbv	91
13] Acrolein	5.39	56	372m	0.258	ppbv	
14) Pentane	6.25	43	5313	0.945	ppbv	97
15) Trichlorofluoromethane	5.80	101	1346	N.D.		
16) Acetone	5.53	58	8800	6.630	ppbv	93
17) 2-Propanol	5.78	45	31819	5.485	ppbv	100
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	6.75	84	7317	2.305	ppbv	97
21) t-Butyl alcohol (TBA)	0.00		0	N.D.		
22) 3-Chloropropene	6.78	41	391	N.D.		
23) CFC-113	0.00		0	N.D.	d	
24) Carbon disulfide	7.22	76	443	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	8.49	43	1843	N.D.		
27) 1,1-Dichloroethane	0.00		0	N.D.		
28) cis-1,2-Dichloroethene	0.00		0	N.D.		
29) Hexane	9.99	57	997	N.D.		
30] Chloroform	10.07	83	336	0.041	ppbv	99
31) Ethyl acetate	9.97	43	2106	N.D.		
32) Tetrahydrofuran	10.76	42	127	N.D.		
33) 2-Butanone (MEK)	8.88	72	817	0.691	ppbv #	85
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d	
35) 1,1,1-Trichloroethane	11.51	97	201	N.D.		
36] Carbon tetrachloride	12.83	117	490	0.070	ppbv	96
37] Benzene	12.58	78	3249m	0.293	ppbv	
38) Cyclohexane	13.05	84	146	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

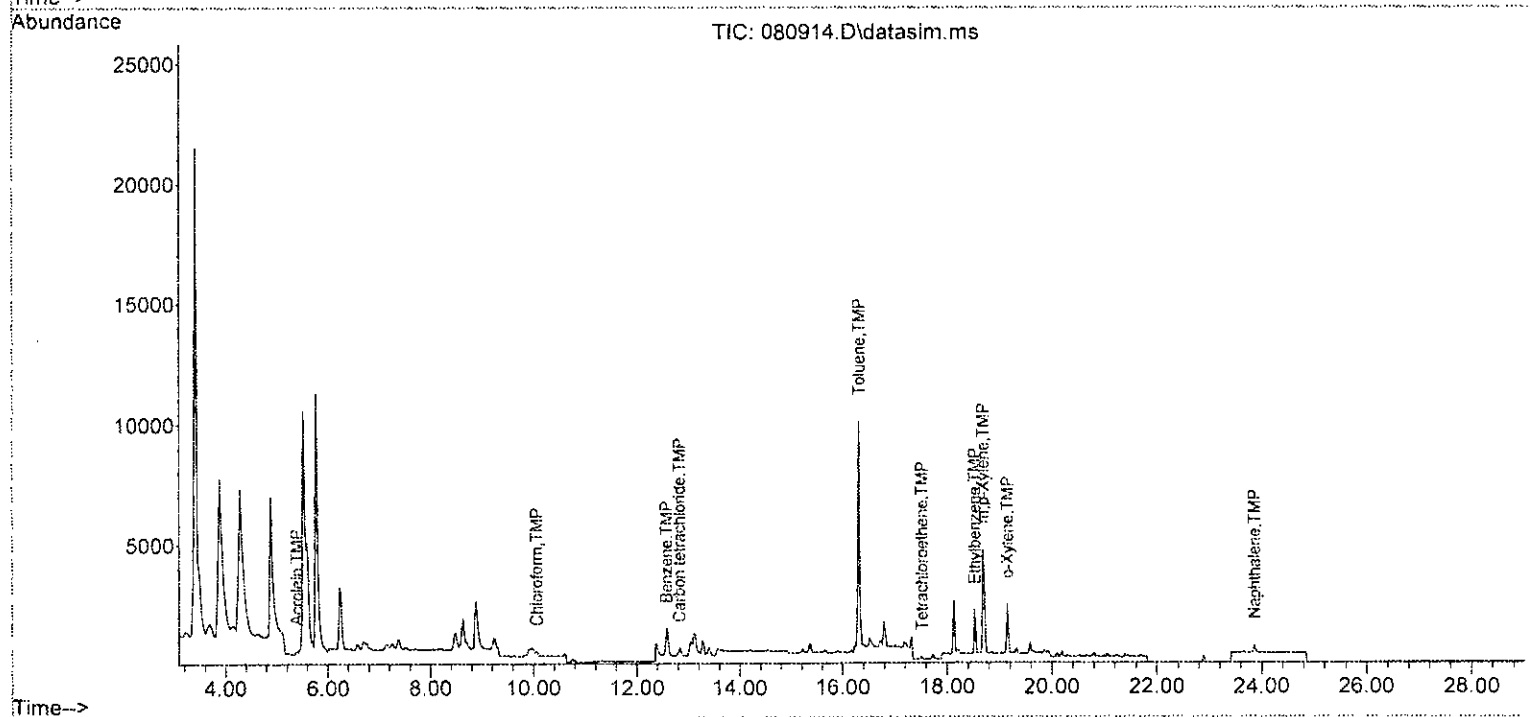
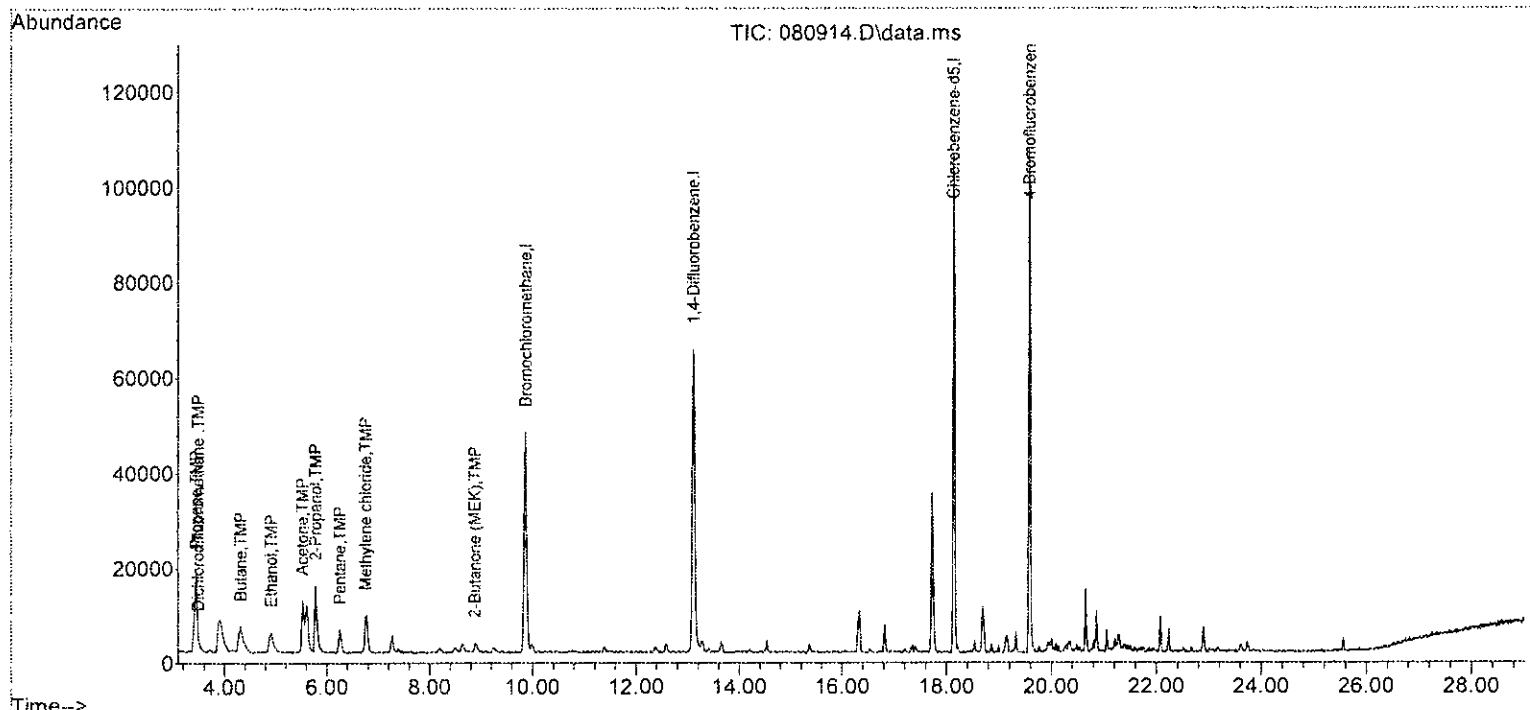
Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	14.21	57	461		N.D.	
43) Methyl methacrylate	14.19	41	422		N.D.	
44) Heptane	14.53	43	1373		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	14.12	95	22		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50] Toluene	16.31	92	8268	1.376	ppbv	92
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.53	43	875		N.D.	
53] Tetrachloroethene	17.52	164	507	0.143	ppbv	94
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58] Ethylbenzene	18.53	91	2755	0.218	ppbv	99
59) 1,1,2,2-Tetrachloroethane	18.98	83	43		N.D.	
60) Nonane	19.32	43	1907		N.D.	
61) Isopropylbenzene	20.06	105	339		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	20.19	91	377		N.D.	
64) 4-Ethyltoluene	20.29	105	1484		N.D.	
65] m,p-Xylene	18.68	106	3254	0.764	ppbv	91
66] o-Xylene	19.15	106	1015	0.261	ppbv	90
67) Styrene	18.70	104	255		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	d
71) 1,3,5-Trimethylbenzene	20.29	105	1484		N.D.	
72) 1,2,4-Trimethylbenzene	20.81	105	985		N.D.	
73) 1,3-Dichlorobenzene	21.05	146	119		N.D.	
74) 1,4-Dichlorobenzene	21.05	146	119		N.D.	
75) 1,2-Dichlorobenzene	21.05	146	105		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.86	128	610	0.084	ppbv	99
78) Hexachlorobutadiene	0.00		0		N.D.	

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080914.D  
 Acq On : 9 Aug 2023 7:11 pm  
 Operator : bat  
 Sample : 308147-04  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

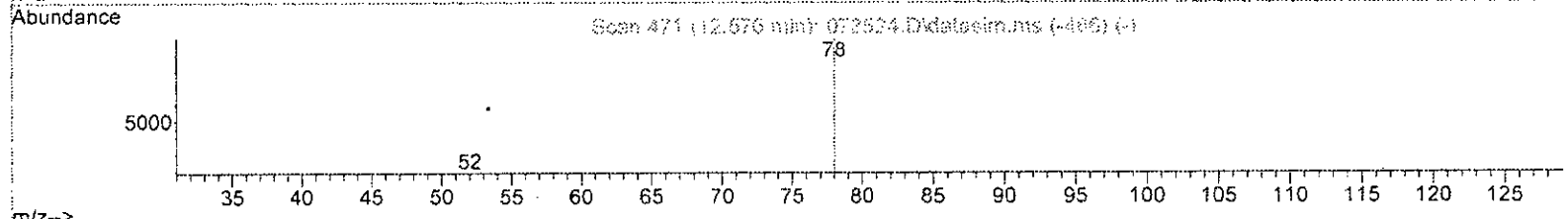
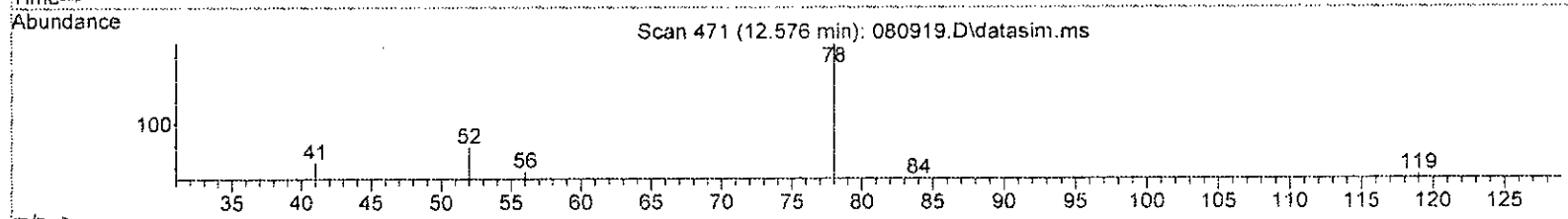
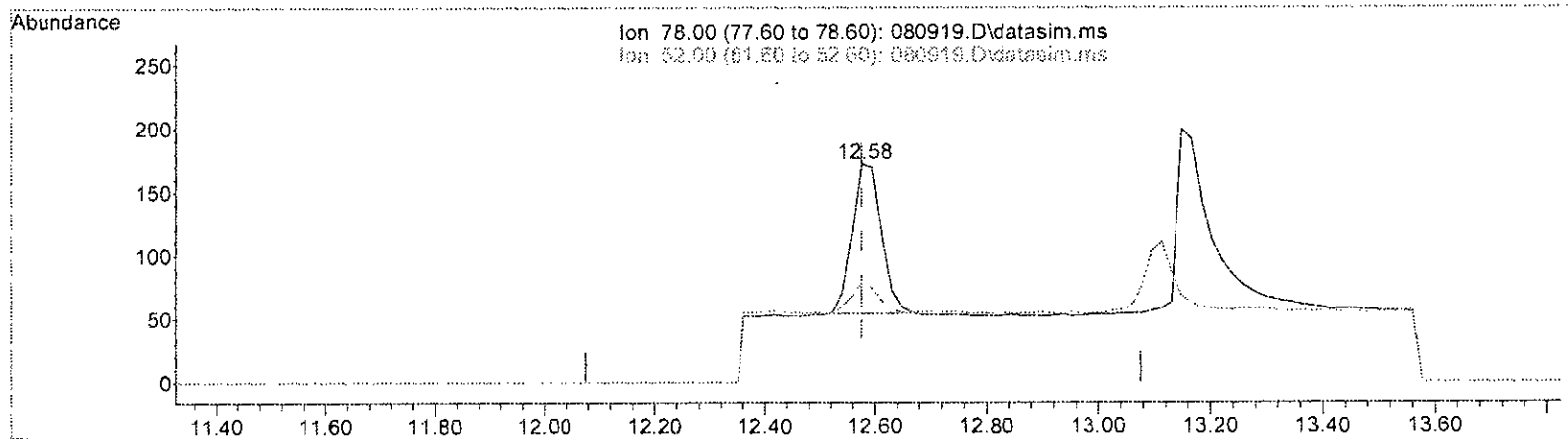
Quant Time: Aug 10 07:21:46 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080919.D  
 Acq On : 9 Aug 2023 10:53 pm  
 Operator : bat  
 Sample : 308147-05 1/5.3  
 Misc : T8  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:56 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080919.D\data.ms

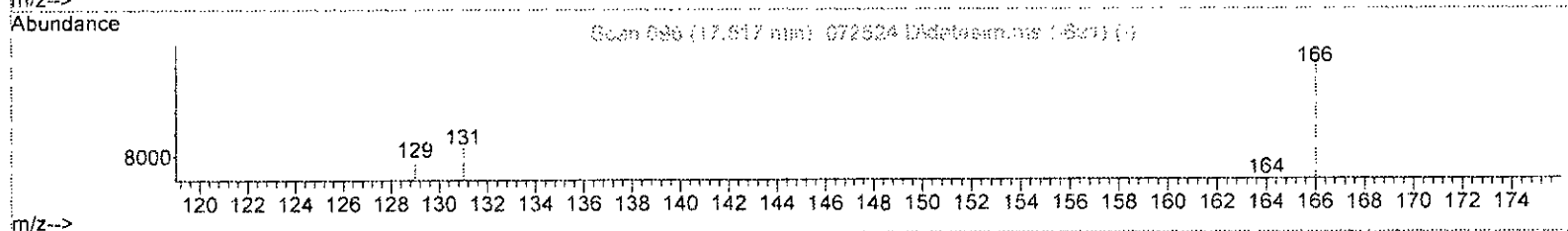
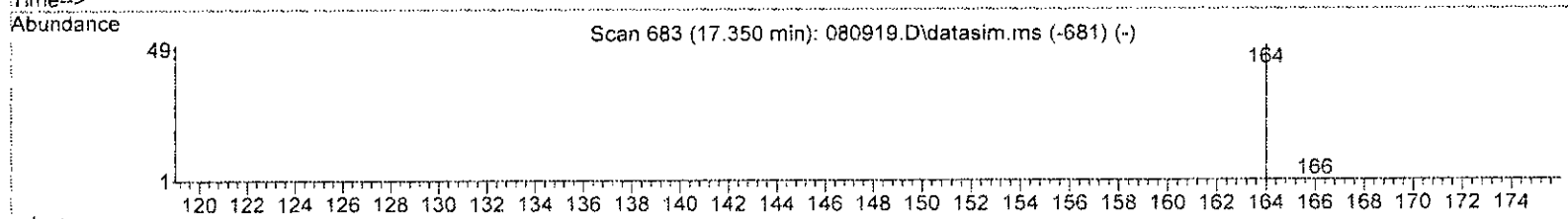
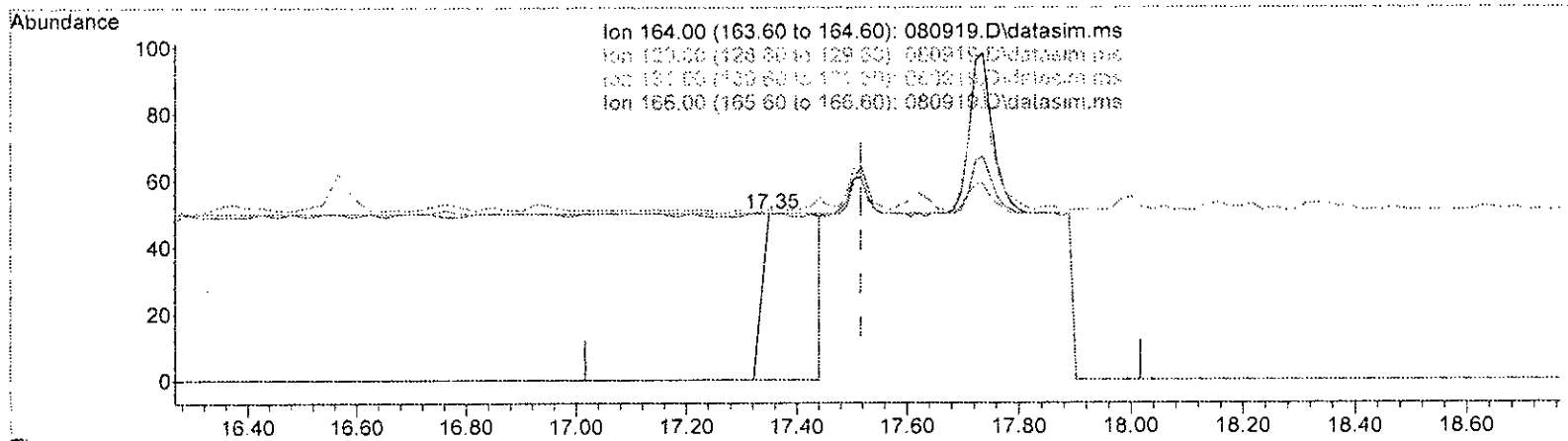
(37) Benzene (TMP)		
12.576min (+ 0.000)	0.037 ppbv m	
response	424	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	45.35
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080919.D  
 Acq On : 9 Aug 2023 10:53 pm  
 Operator : bat  
 Sample : 308147-05 1/5.3  
 Misc : T8  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:56 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 080919.D\data.ms

(53) Tetrachloroethene (TMP)

17.350min (-0.167) 0.107 ppbv

response 388

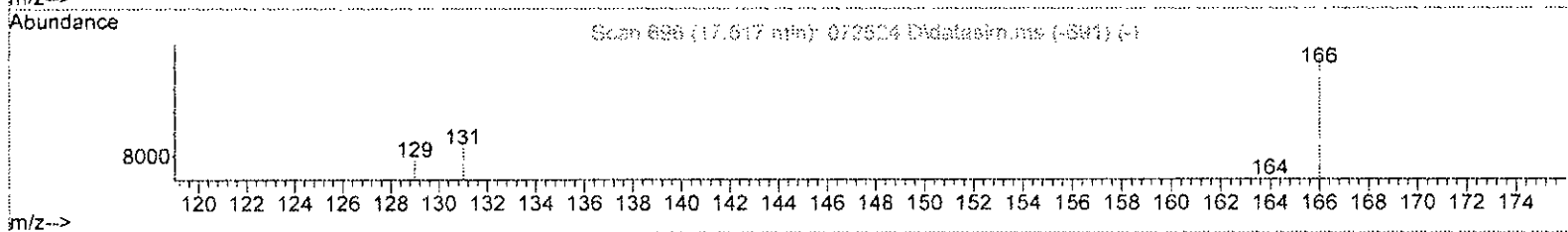
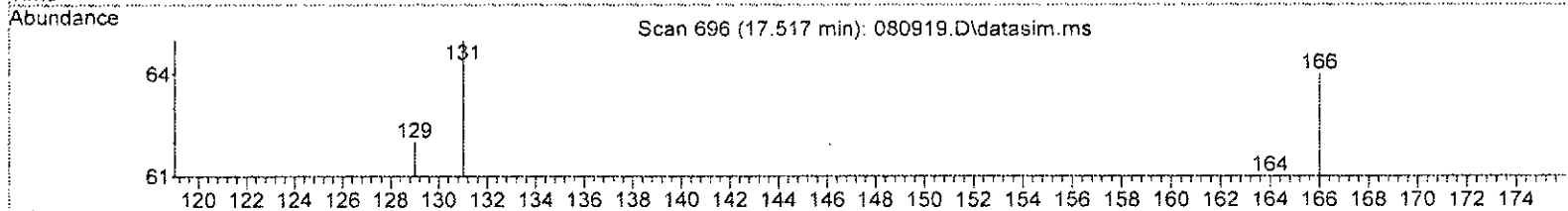
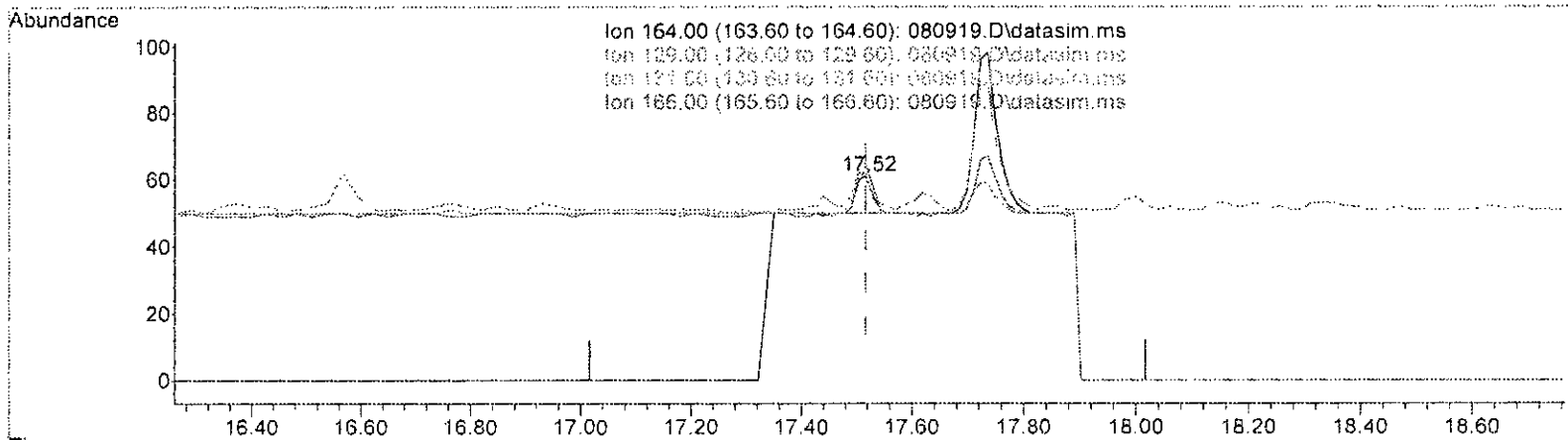
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	0.00#
131.00	100.70	0.00#
166.00	137.50	2.00#

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080919.D  
 Acq On : 9 Aug 2023 10:53 pm  
 Operator : bat  
 Sample : 308147-05 1/5.3  
 Misc : T8  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:56 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 5S method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 080919.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (+ 0.000) 0.006 ppbv m

response 22

Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	101.64
131.00	100.70	106.56
166.00	137.50	104.92#

MW 01/10/23



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080919.D  
 Acq On : 9 Aug 2023 10:53 pm  
 Operator : bat  
 Sample : 308147-05 1/5.3  
 Misc : T8  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

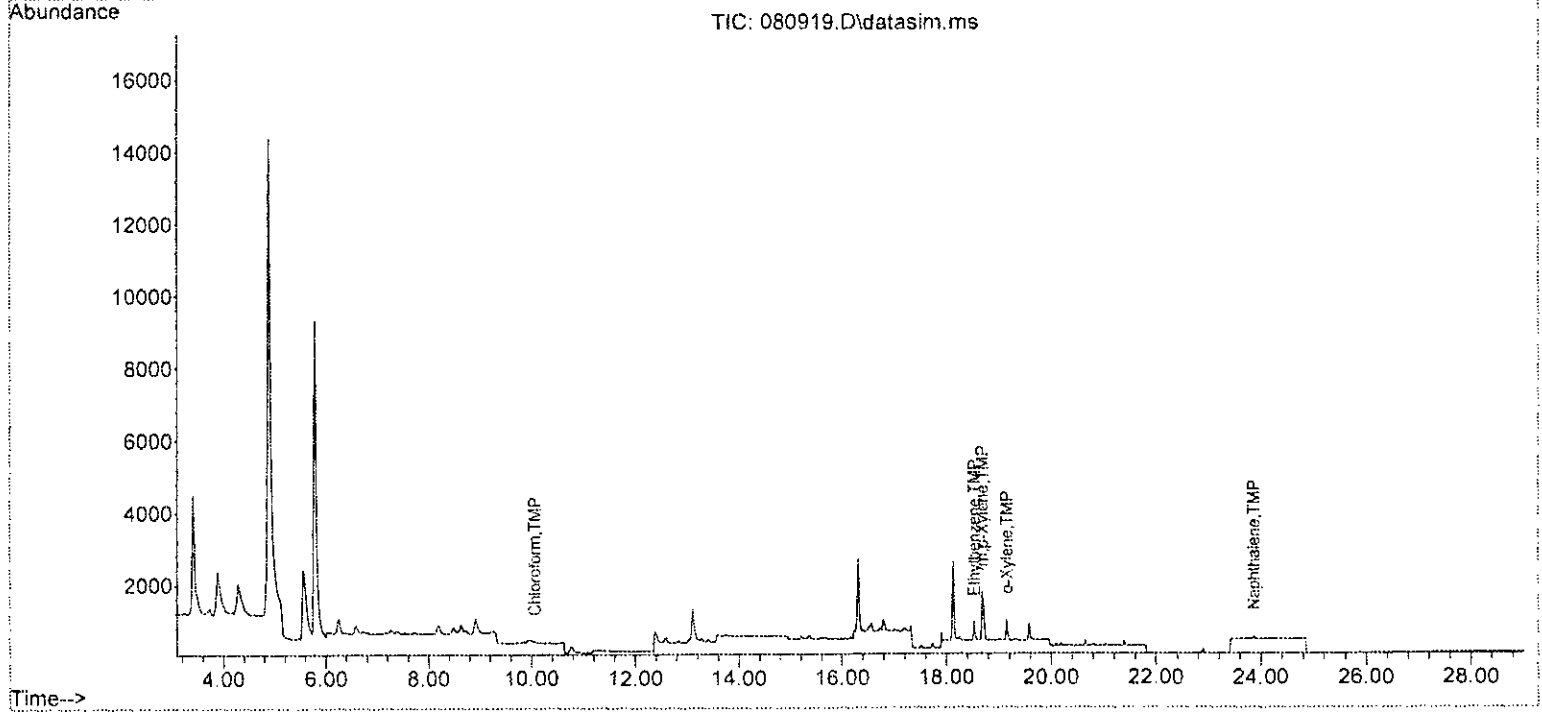
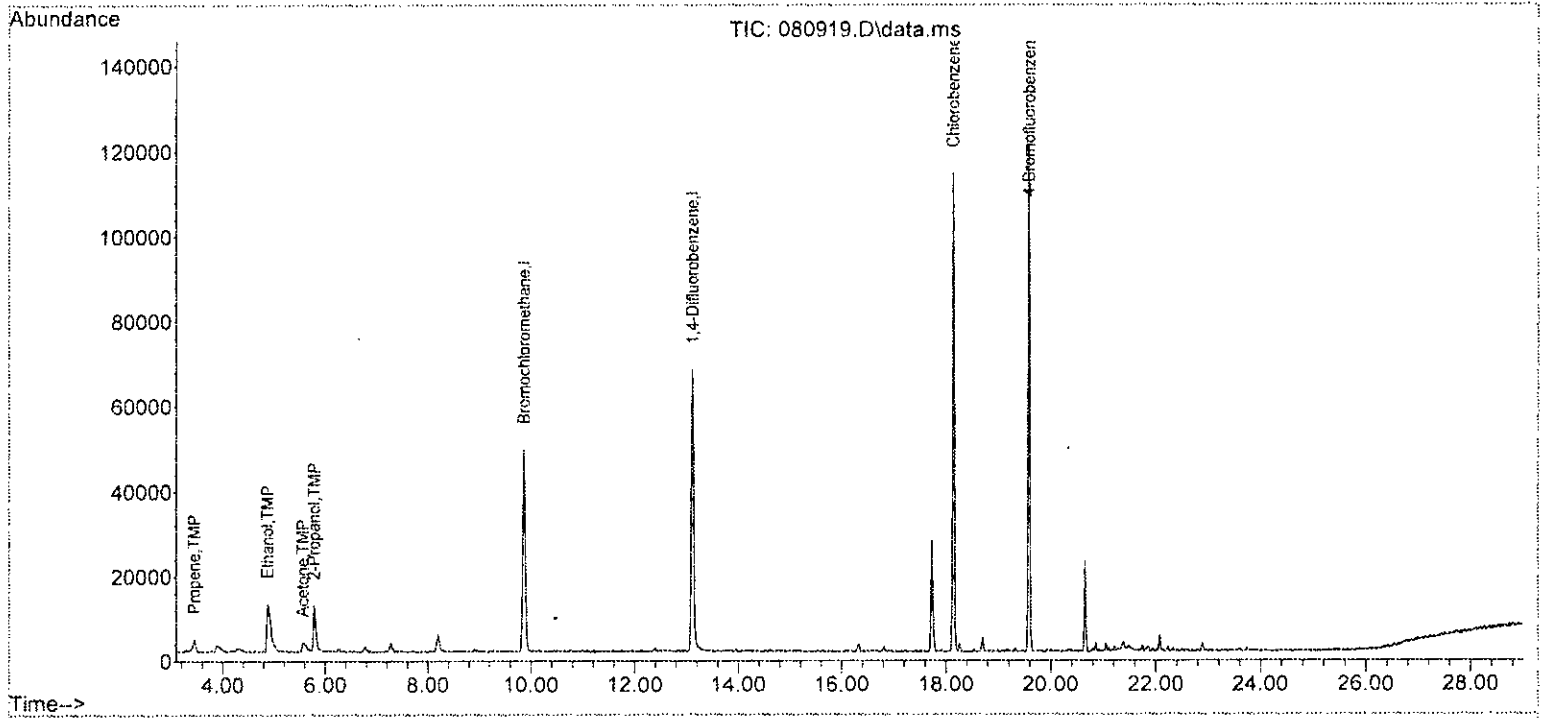
Quant Time: Aug 10 07:21:56 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

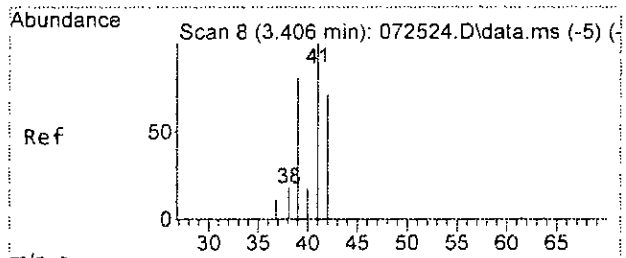
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	20238	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80338	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	73764	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	51370	9.398	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	94.00%	
Target Compounds						
					Qvalue	
2) Propene	3.45	41	1617	0.654	ppbv #	47
12) Ethanol	4.88	45	34017	30.927	ppbv	87
16) Acetone	5.57	58	1886	1.390	ppbv #	72
17) 2-Propanol	5.78	45	26552	4.478	ppbv	98
30] Chloroform	10.07	83	69	0.008	ppbv	89
58] Ethylbenzene	18.53	91	738	0.056	ppbv	97
65] m,p-Xylene	18.68	106	899	0.201	ppbv	93
66] o-Xylene	19.15	106	285	0.070	ppbv	94
77] Naphthalene	23.86	128	142	0.019	ppbv	98
-----						

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

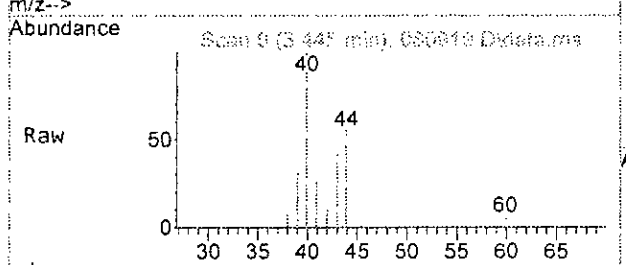
Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080919.D  
 Acq On : 9 Aug 2023 10:53 pm  
 Operator : bat  
 Sample : 308147-05 1/5.3  
 Misc : T8  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:56 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

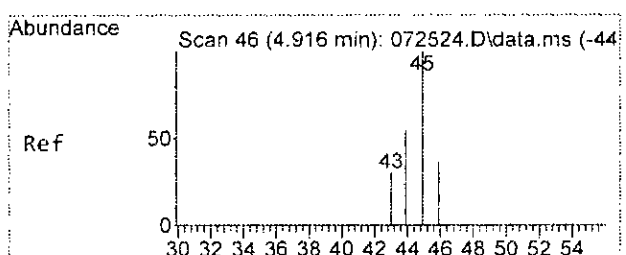
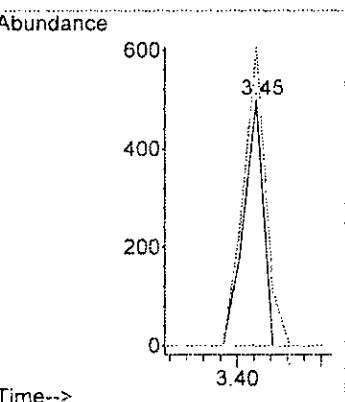
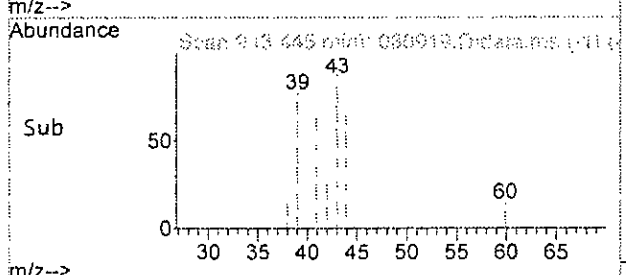




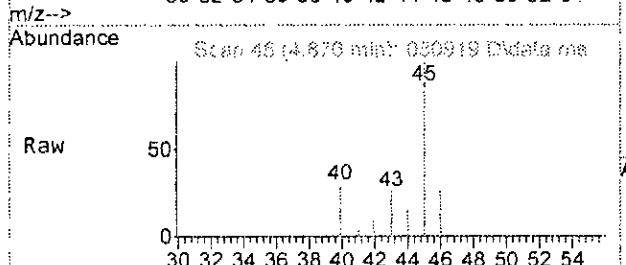
#2  
 Propene  
 Concen: 0.654 ppbv  
 RT: 3.45 min Scan# 9  
 Delta R.T. 0.039 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm



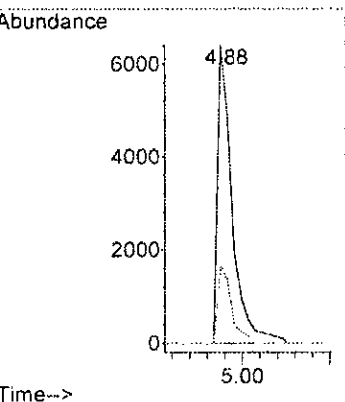
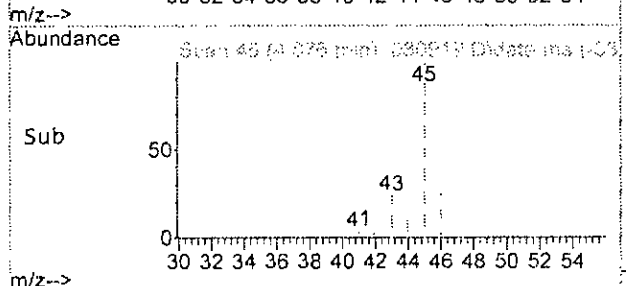
Tgt Ion: 41 Resp: 1617  
 Ion Ratio Lower Upper  
 41 100  
 39 121.2 45.6 105.6#  
 27 0.0 0.0 30.0

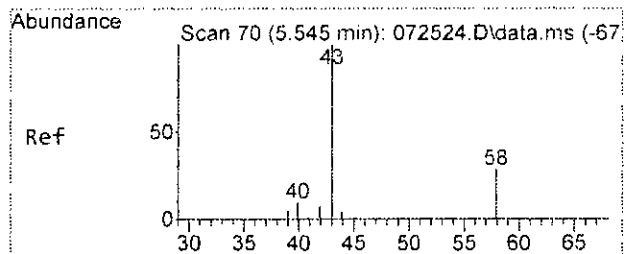


#12  
 Ethanol  
 Concen: 30.927 ppbv  
 RT: 4.88 min Scan# 45  
 Delta R.T. -0.040 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm



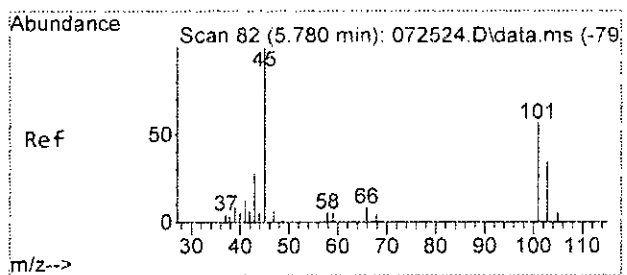
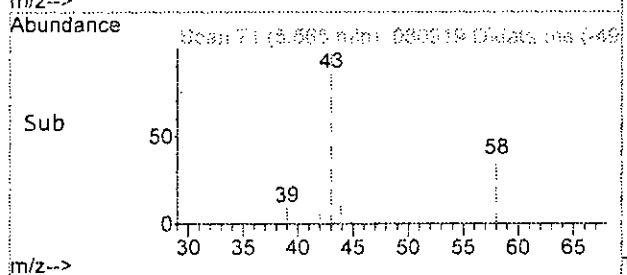
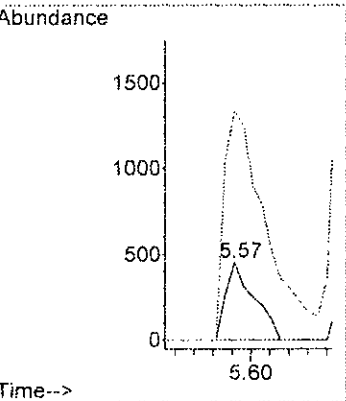
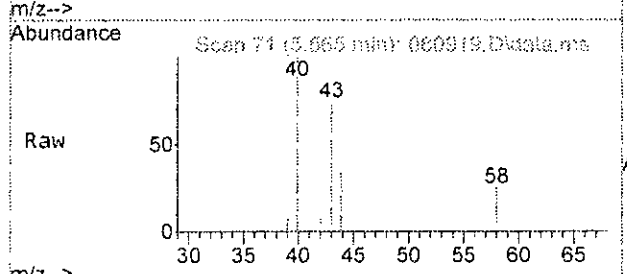
Tgt Ion: 45 Resp: 34017  
 Ion Ratio Lower Upper  
 45 100  
 46 31.9 0.0 55.5





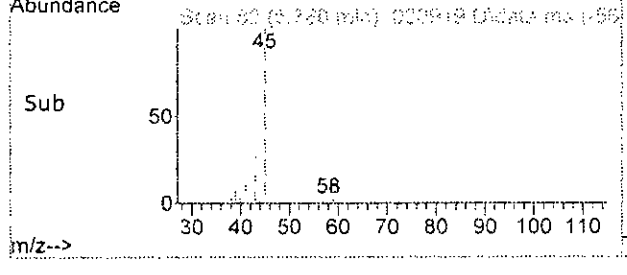
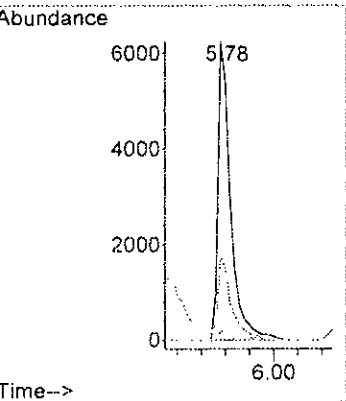
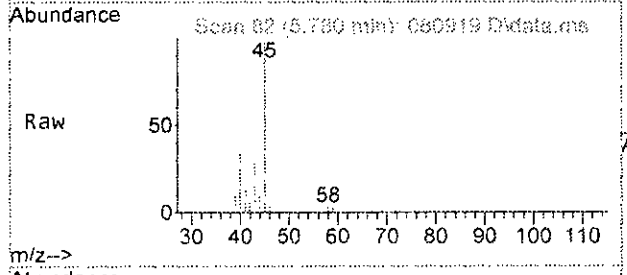
#16  
 Acetone  
 Concen: 1.390 ppbv  
 RT: 5.57 min Scan# 71  
 Delta R.T. 0.020 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm

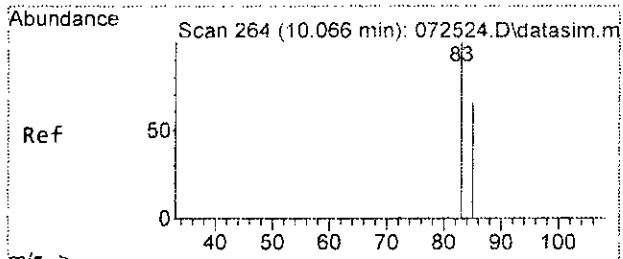
Tgt Ion: 58 Resp: 1886  
 Ion Ratio Lower Upper  
 58 100  
 43 296.7 329.3 389.3#



#17  
 2-Propanol  
 Concen: 4.478 ppbv  
 RT: 5.78 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm

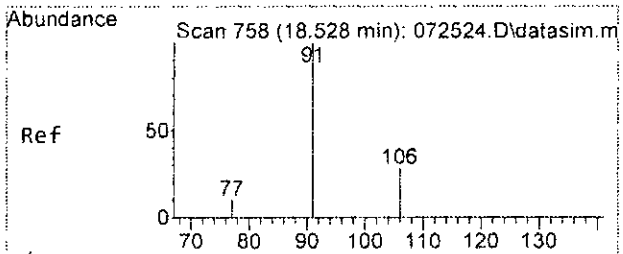
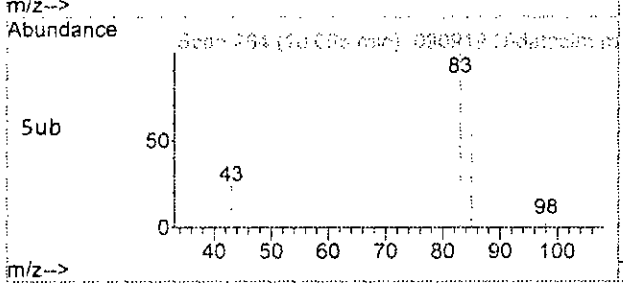
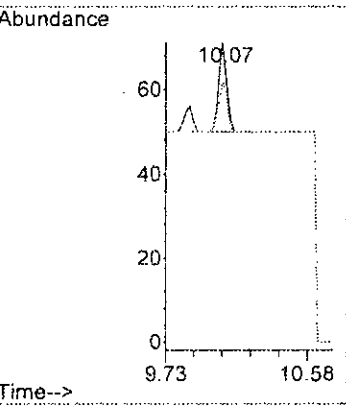
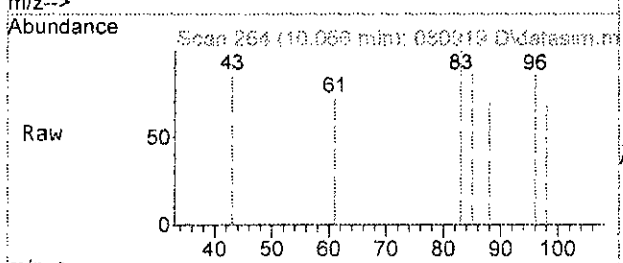
Tgt Ion: 45 Resp: 26552  
 Ion Ratio Lower Upper  
 45 100  
 43 27.9 0.0 30.0  
 59 2.9 0.0 33.6





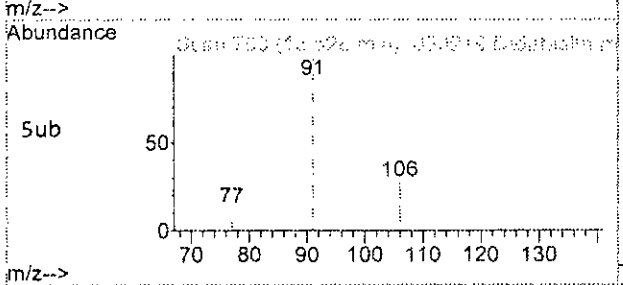
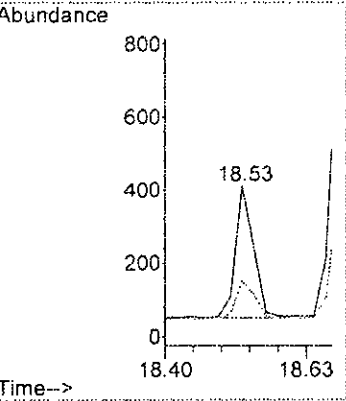
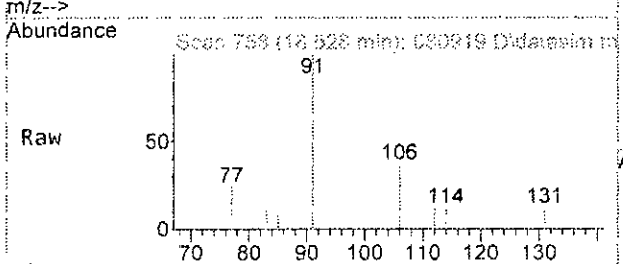
#30  
 Chloroform  
 Concen: 0.008 ppbv  
 RT: 10.07 min Scan# 264  
 Delta R.T. 0.000 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm

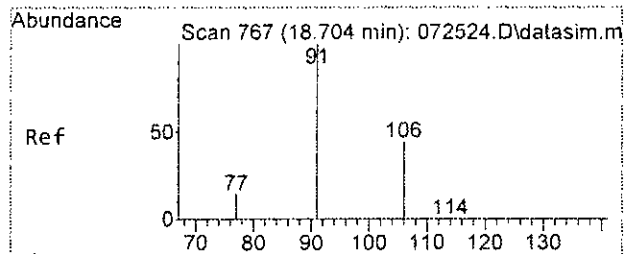
Tgt Ion	Resp	Lower	Upper
83	100		
85	57.1	36.3	96.3



#58  
 Ethylbenzene  
 Concen: 0.056 ppbv  
 RT: 18.53 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm

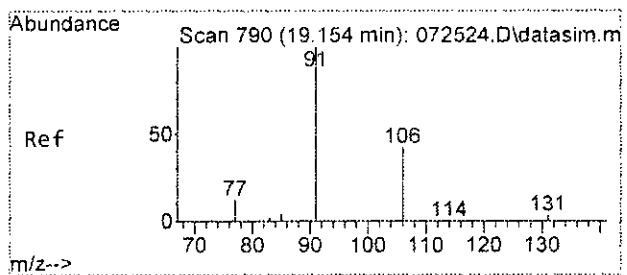
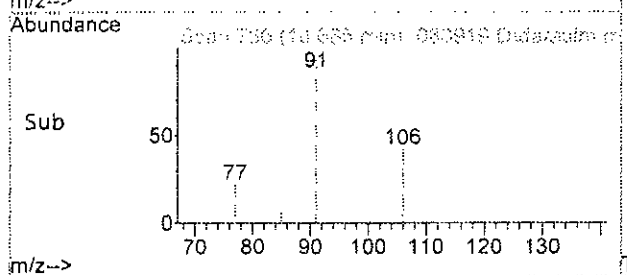
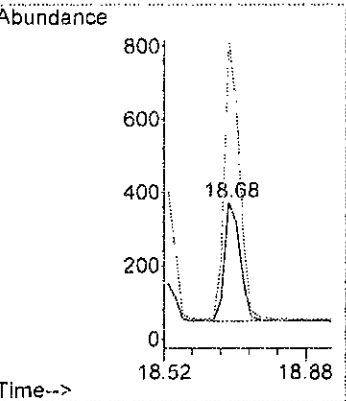
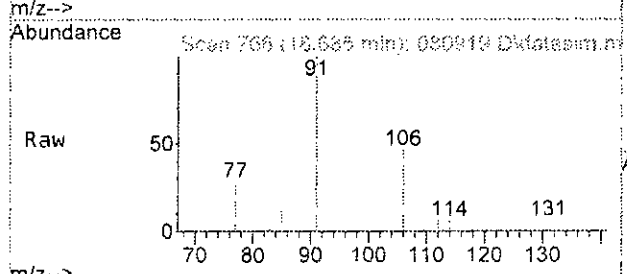
Tgt Ion	Resp	Lower	Upper
91	100		
106	28.3	0.0	57.0





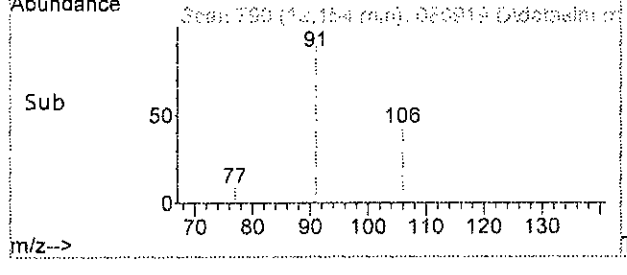
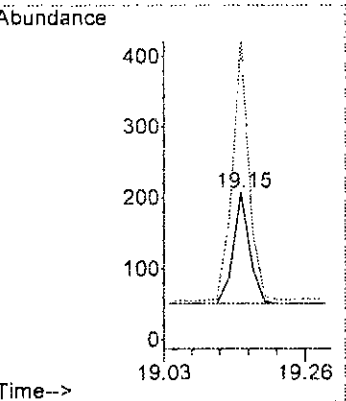
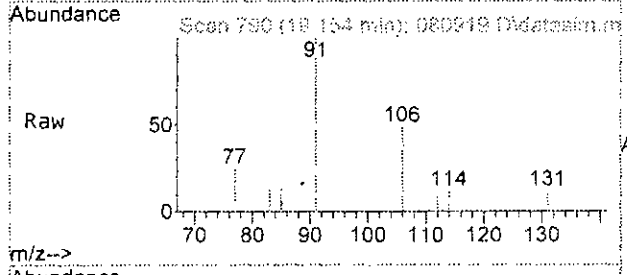
#65  
 m,p-Xylene  
 Concen: 0.201 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm

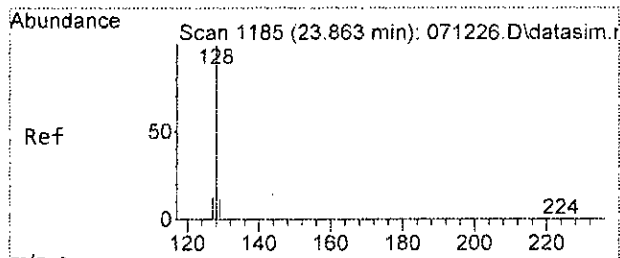
Tgt Ion: 106 Resp: 899  
 Ion Ratio Lower Upper  
 106 100  
 91 235.1 193.0 253.0



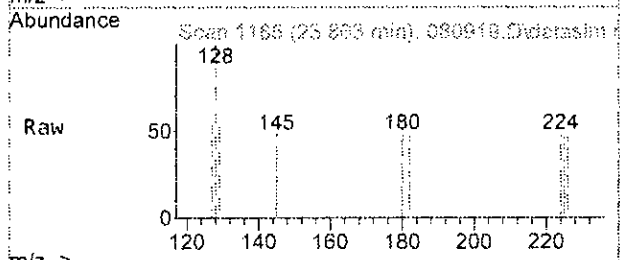
#66  
 o-Xylene  
 Concen: 0.070 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm

Tgt Ion: 106 Resp: 285  
 Ion Ratio Lower Upper  
 106 100  
 91 234.0 194.4 254.4



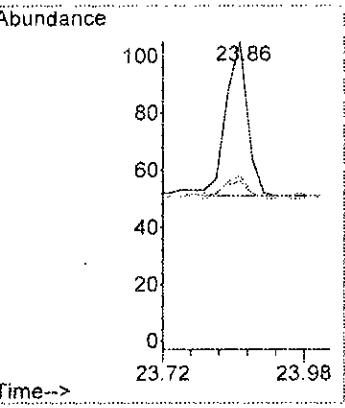
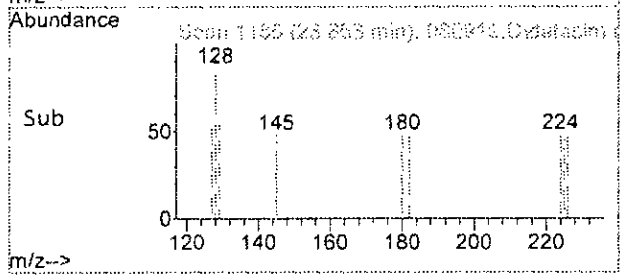


#77  
 Naphthalene  
 Concen: 0.019 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080919.D  
 Acq: 9 Aug 2023 10:53 pm



Tgt Ion: 128 Resp: 142

Ion	Ratio	Lower	Upper
128	100		
129	11.1	0.0	41.0
127	14.8	0.0	43.2



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080919.D  
 Acq On : 9 Aug 2023 10:53 pm  
 Operator : bat  
 Sample : 308147-05 1/5.3  
 Misc : T8  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:56 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	20238	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80338	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	73764	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	51370	9.398	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	94.00%	
Target Compounds						
						Qvalue
2) Propene	3.45	41	1617	0.654	ppbv #	47
3) Dichlorodifluoromethane	0.00		0	N.D.	d	
4) Chloromethane	3.73	50	441	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	4.32	43	2439	N.D.		
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.88	45	34017	30.927	ppbv	87
13) Acrolein	0.00		0	N.D.		
14) Pentane	6.25	43	860	N.D.		
15) Trichlorofluoromethane	0.00		0	N.D.		
16) Acetone	5.57	58	1886	1.390	ppbv #	72
17) 2-Propanol	5.78	45	26552	4.478	ppbv	98
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	6.78	84	947	N.D.		
21) t-Butyl alcohol (TBA)	6.59	59	252	N.D.		
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	0.00		0	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	8.64	43	191	N.D.		
27) 1,1-Dichloroethane	0.00		0	N.D.		
28) cis-1,2-Dichloroethene	0.00		0	N.D.		
29) Hexane	0.00		0	N.D.		
30] Chloroform	10.07	83	69	0.008	ppbv	89
31) Ethyl acetate	0.00		0	N.D.		
32) Tetrahydrofuran	10.75	42	304	N.D.		
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.		
35) 1,1,1-Trichloroethane	0.00		0	N.D.		
36) Carbon tetrachloride	12.84	117	94	N.D.		
37) Benzene	12.58	78	424	N.D.		
38) Cyclohexane	0.00		0	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080919.D  
 Acq On : 9 Aug 2023 10:53 pm  
 Operator : bat  
 Sample : 308147-05 1/5.3  
 Misc : T8  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

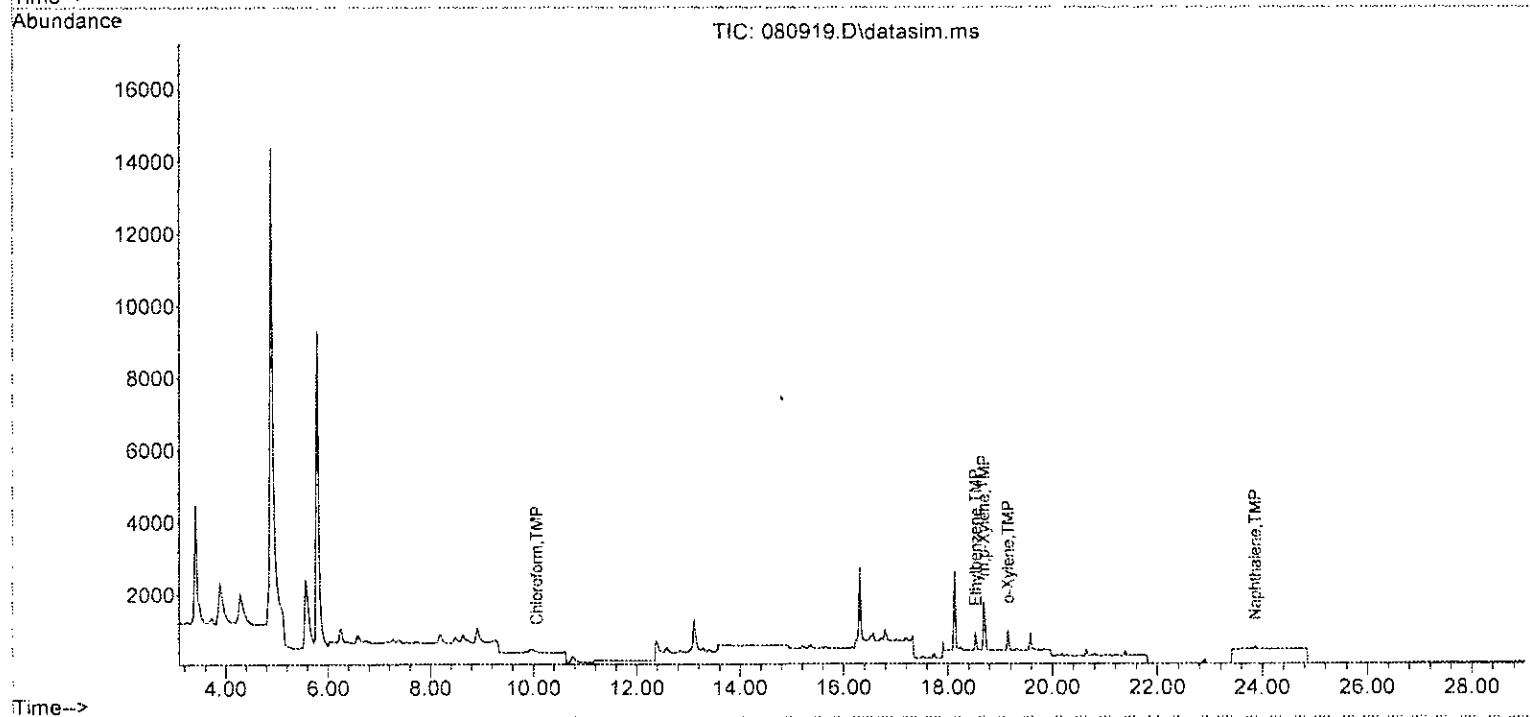
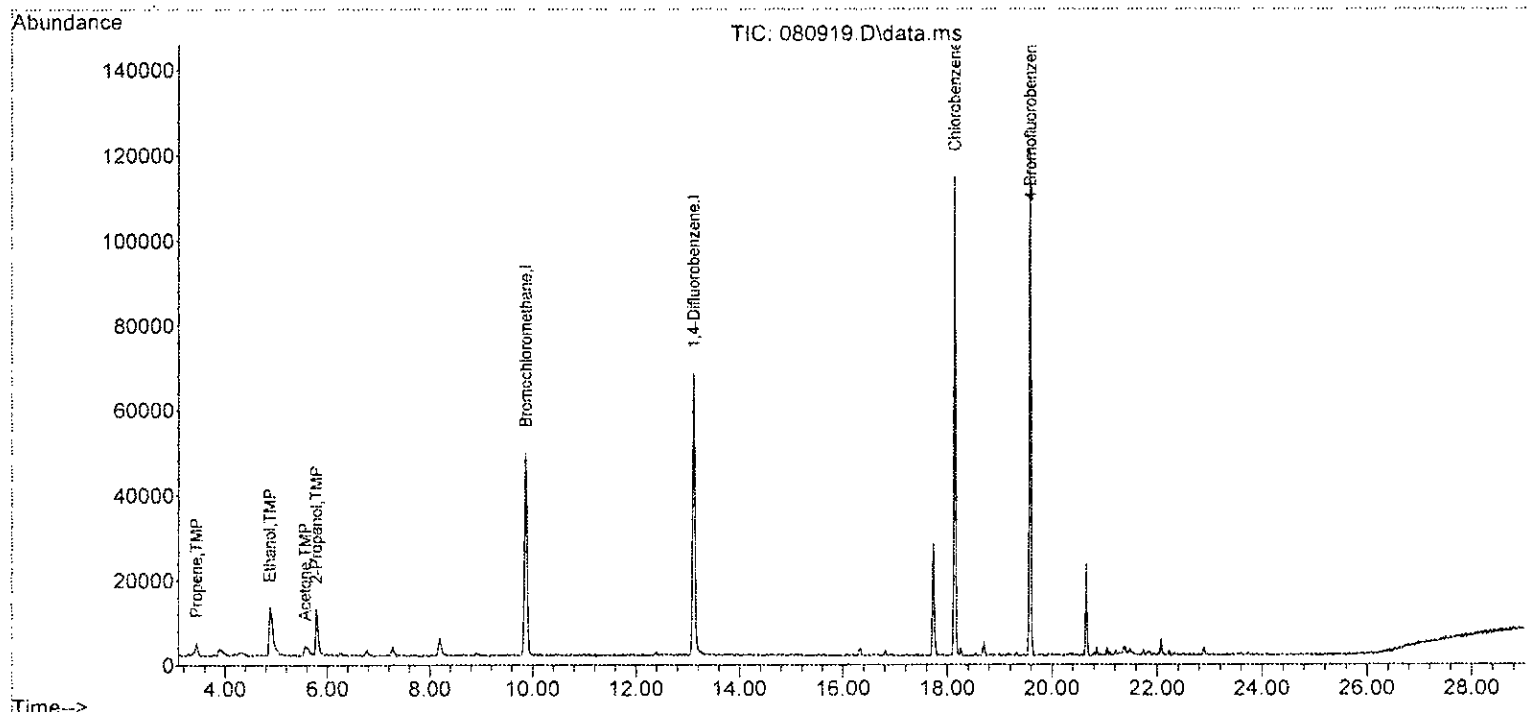
Quant Time: Aug 10 07:21:56 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D.	
44) Heptane	0.00		0		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	2474		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.59	43	235		N.D.	
53) Tetrachloroethene	17.52	164	22		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58] Ethylbenzene	18.53	91	738	0.056	ppbv	97
59) 1,1,2,2-Tetrachloroethane	19.31	83	21		N.D.	
60) Nonane	19.32	43	354		N.D.	
61) Isopropylbenzene	0.00		0		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	20.29	105	166		N.D.	
65] m,p-Xylene	18.68	106	899	0.201	ppbv	93
66] o-Xylene	19.15	106	285	0.070	ppbv	94
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	d
71) 1,3,5-Trimethylbenzene	20.29	105	166		N.D.	
72) 1,2,4-Trimethylbenzene	20.81	105	271		N.D.	
73) 1,3-Dichlorobenzene	21.05	146	20		N.D.	
74) 1,4-Dichlorobenzene	21.05	146	20		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.86	128	142	0.019	ppbv	98
78) Hexachlorobutadiene	0.00		0		N.D.	

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
Data File : 080919.D  
Acq On : 9 Aug 2023 10:53 pm  
Operator : bat  
Sample : 308147-05 1/5.3  
Misc : T8  
ALS Vial : 19 Sample Multiplier: 1  
InstName : GCMS7

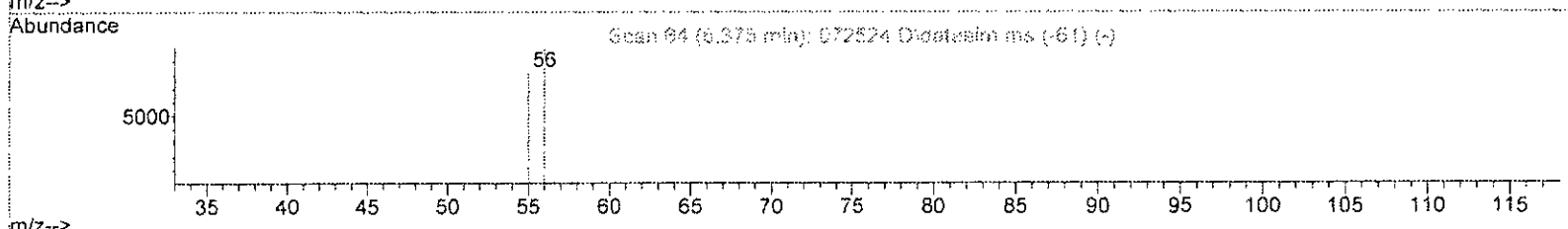
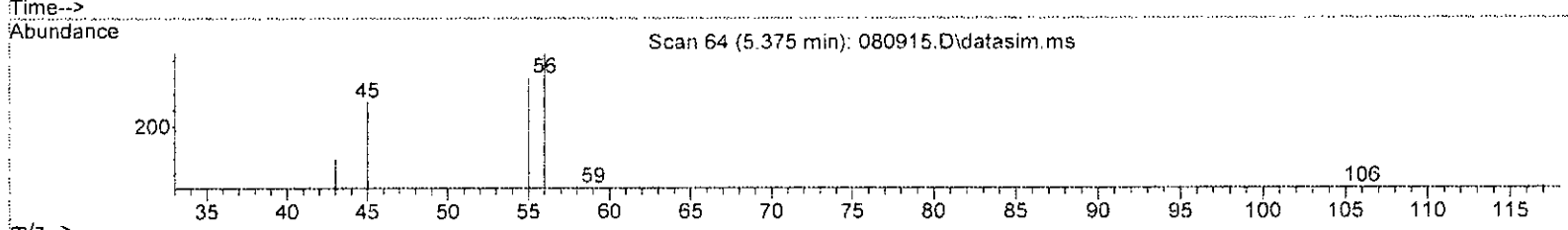
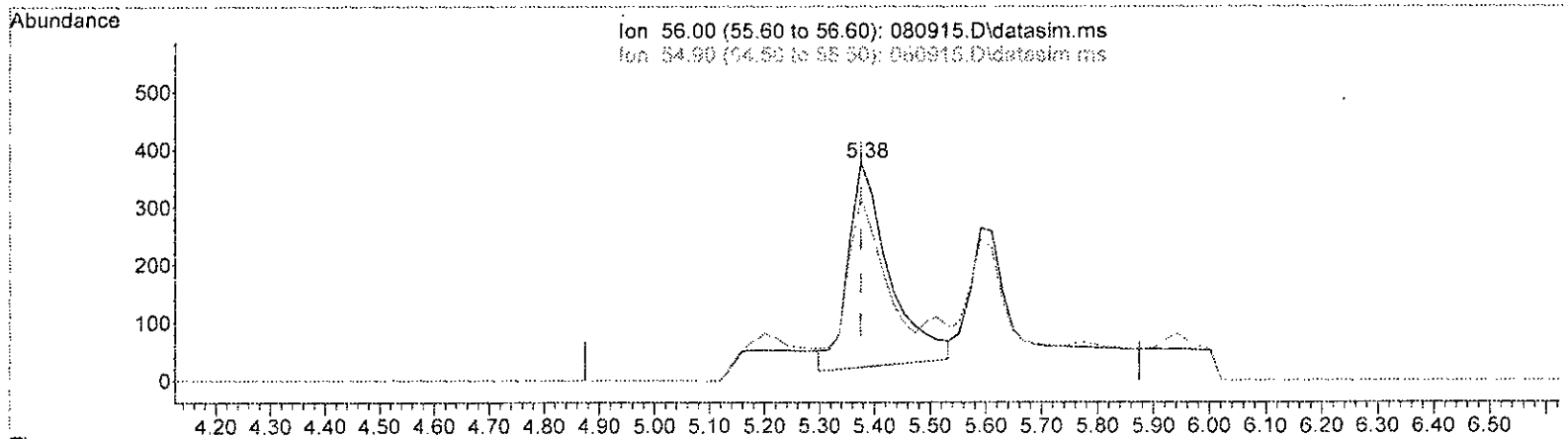
Quant Time: Aug 10 07:21:56 2023  
Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
Quant Title : TO-15 SS method  
QLast Update : Thu Jul 27 16:51:38 2023  
Response via : Initial Calibration  
DataAcq Meth:TO15DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

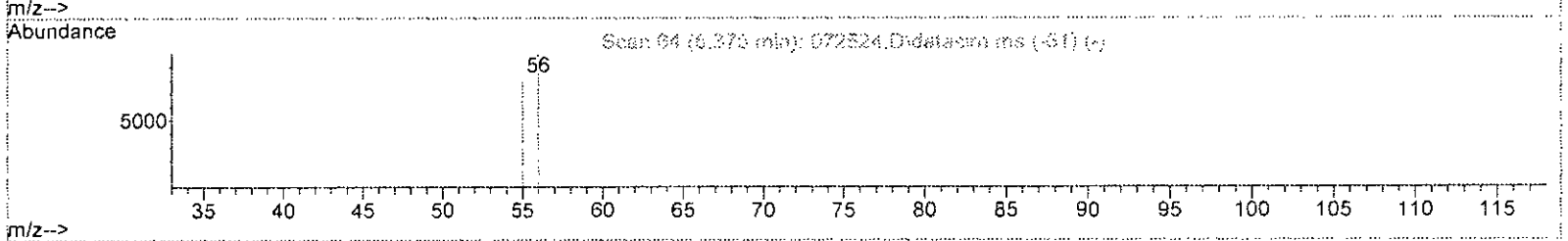
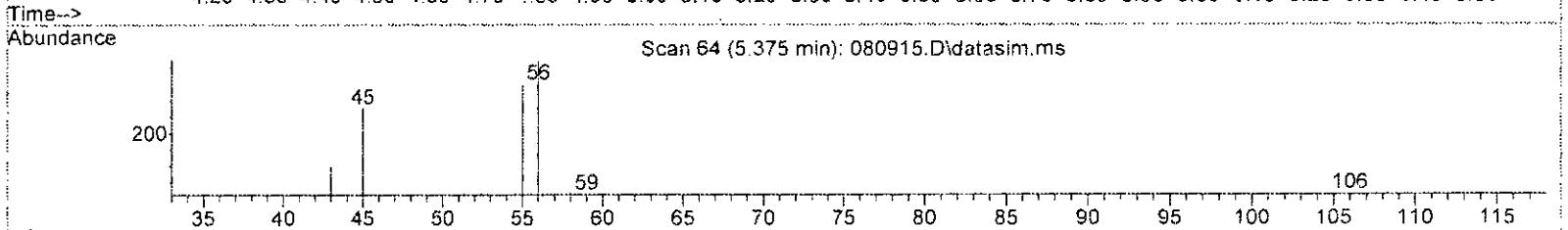
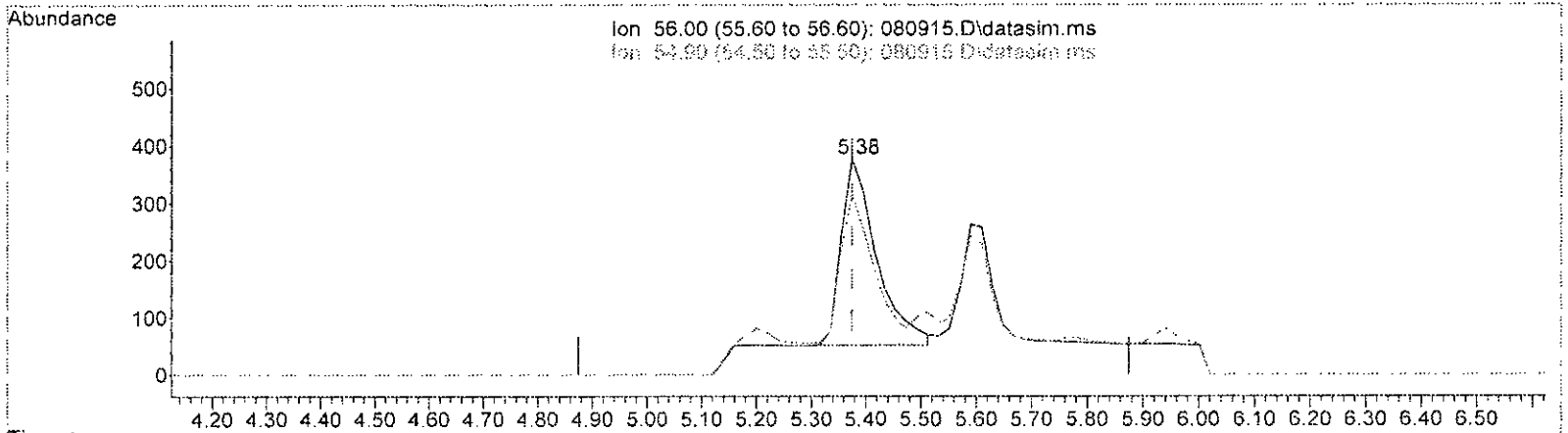
(13) Acrolein (TMP)		
5.375min (+ 0.000)	1.312 ppbv	
response	1833	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	77.09
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: MW 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

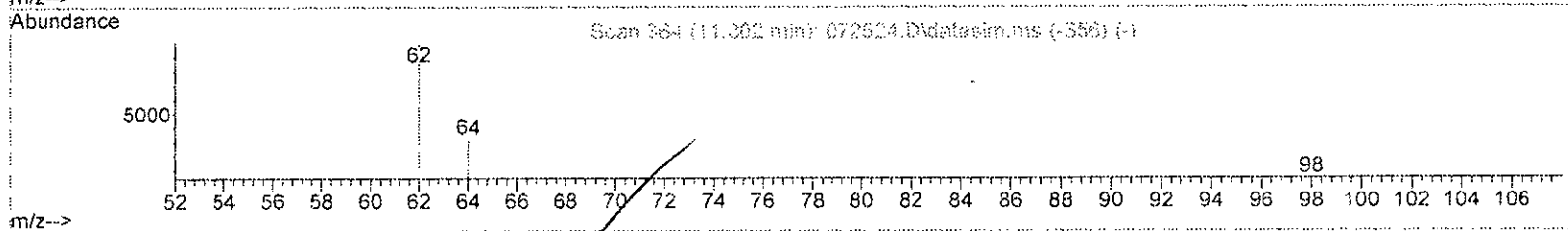
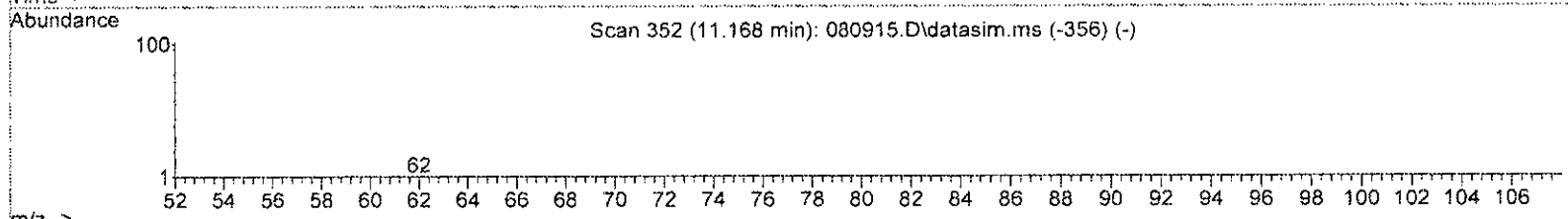
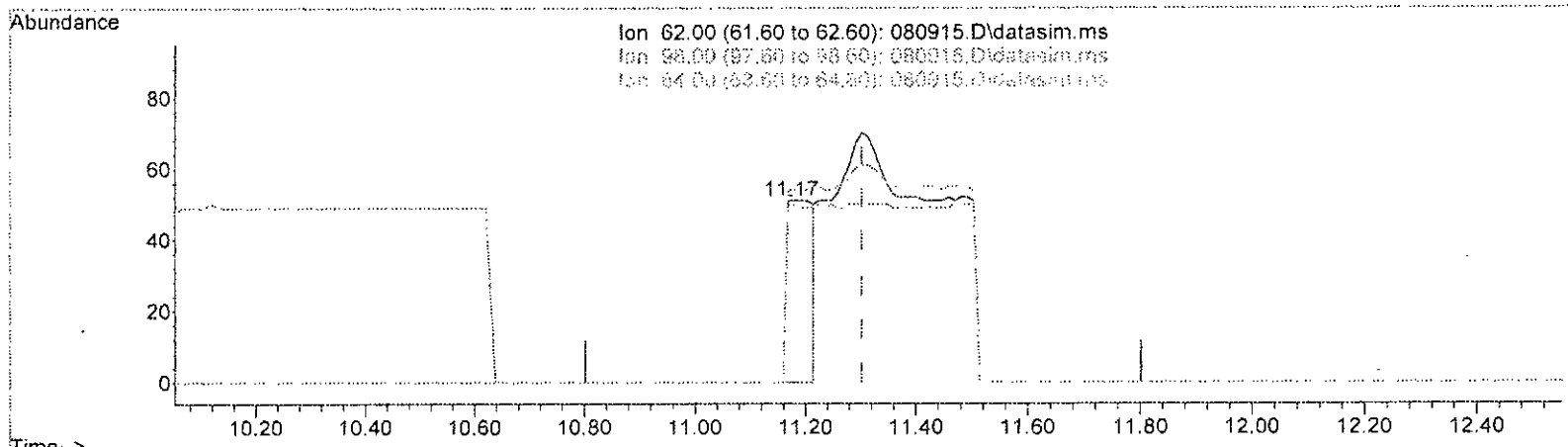
(13) Acrolein (TMP)		
5.375min (+ 0.000)	1.036 ppbv m	
response	1447	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	97.65
0.00	0.00	0.00
0.00	0.00	0.00

*MO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.168min (-0.134) 0.030 ppbv

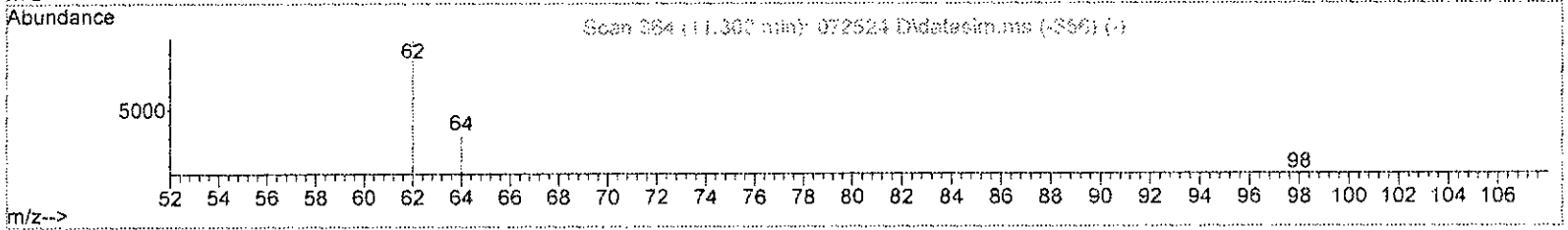
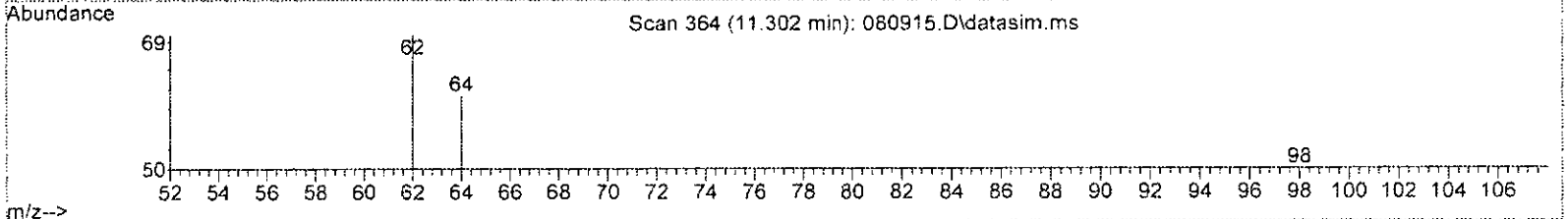
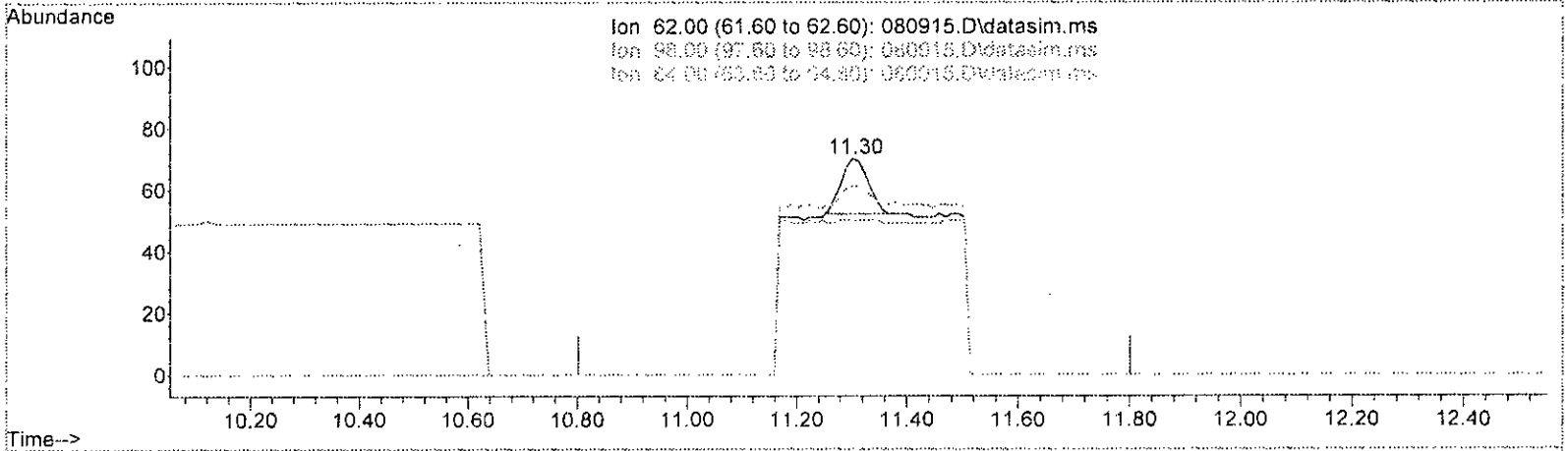
response	161
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 96.08#
64.00	33.00 105.88#
0.00	0.00 0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.302min (+ 0.000) 0.011 ppbv m

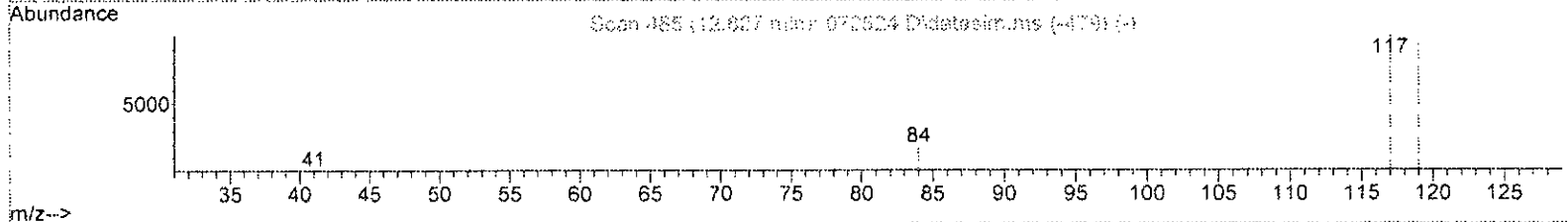
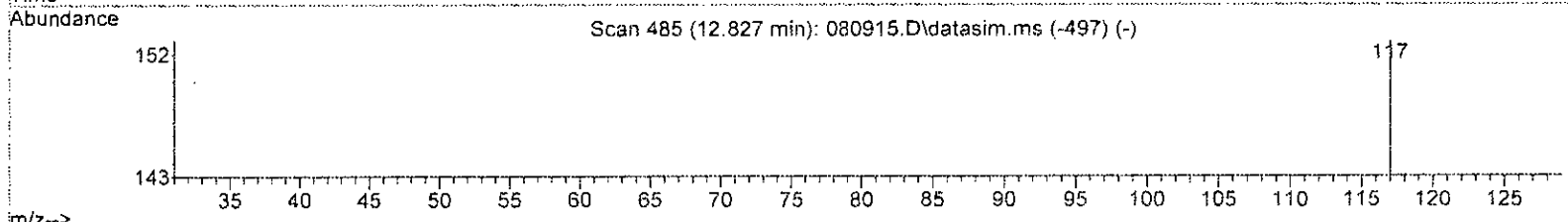
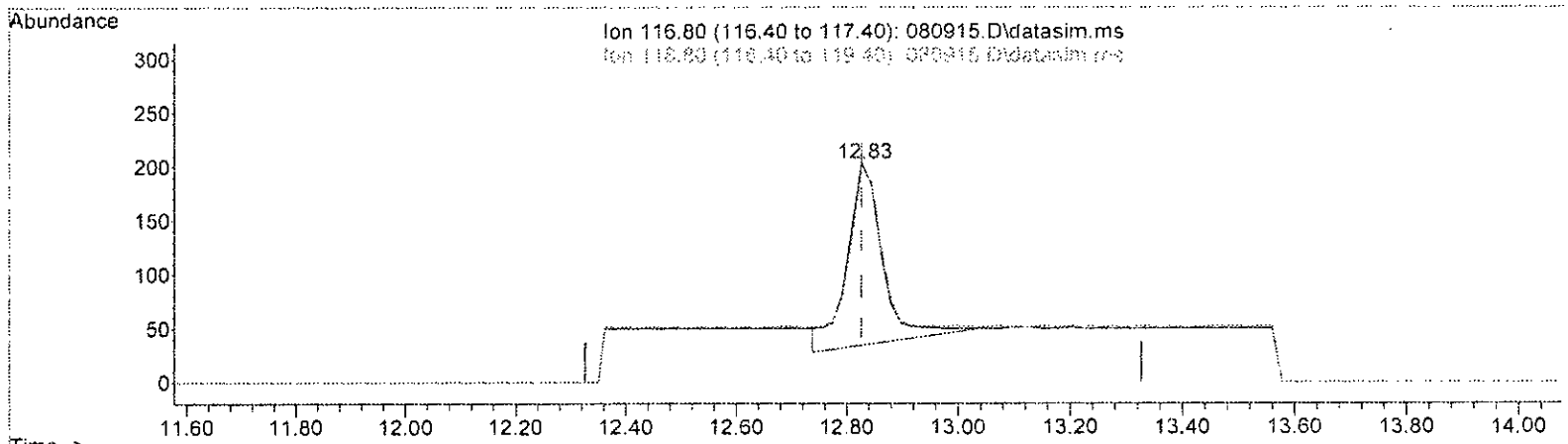
response	60
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 71.43#
64.00	33.00 87.14#
0.00	0.00 0.00

*NO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

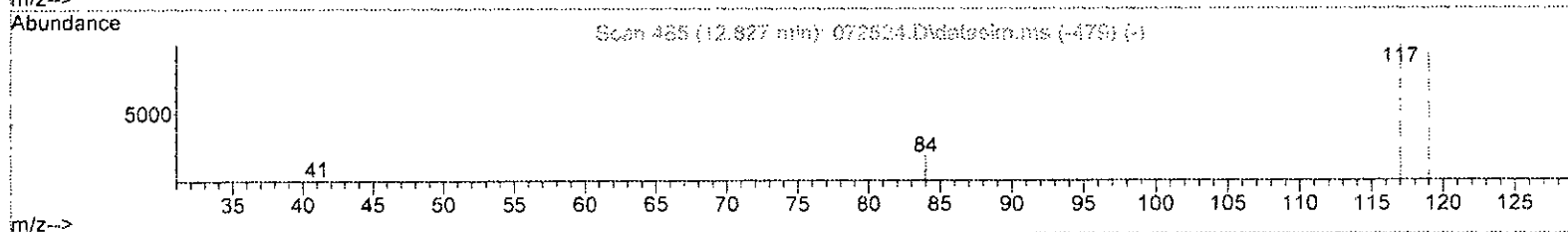
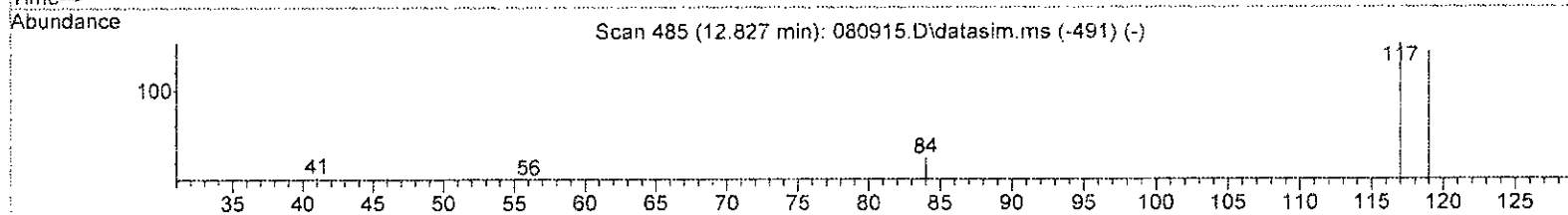
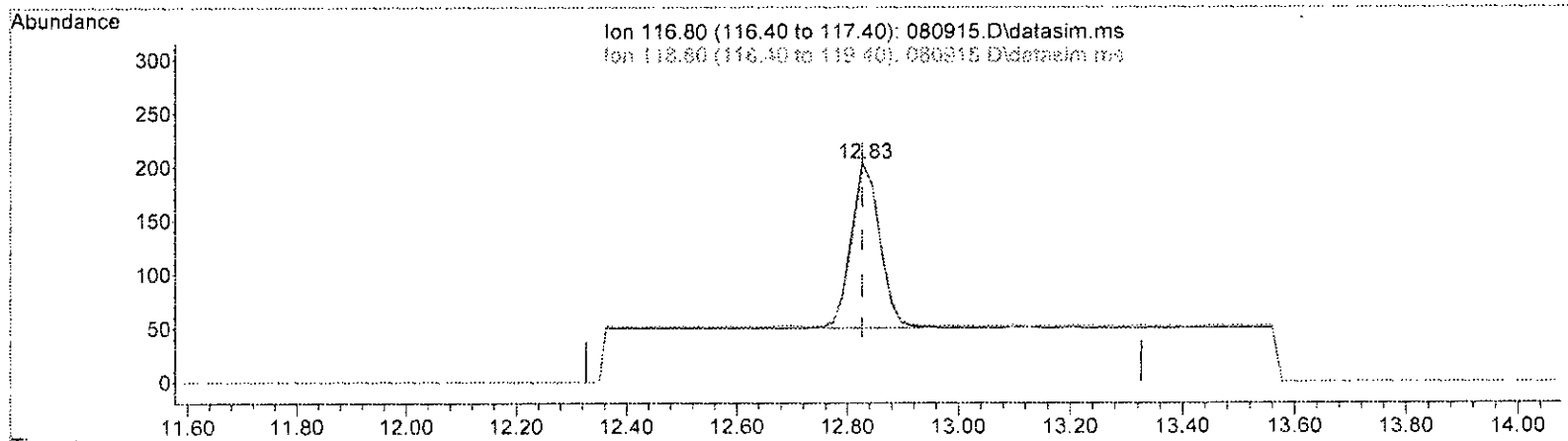
(36) Carbon tetrachloride (IMP)		
12.827min (-0.000)	0.111	ppbv
response	751	
Ion	Exp%	Act%
116.80	100.00	100.00
118.80	94.60	93.46
0.00	0.00	0.00
0.00	0.00	0.00

NO  
8/10/23

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

(36) Carbon tetrachloride (TMP)

12.827min (-0.000) 0.081 ppbv m

response	548	
Ion	Exp%	Act%
116.80	100.00	100.00
118.80	94.60	95.57
0.00	0.00	0.00
0.00	0.00	0.00

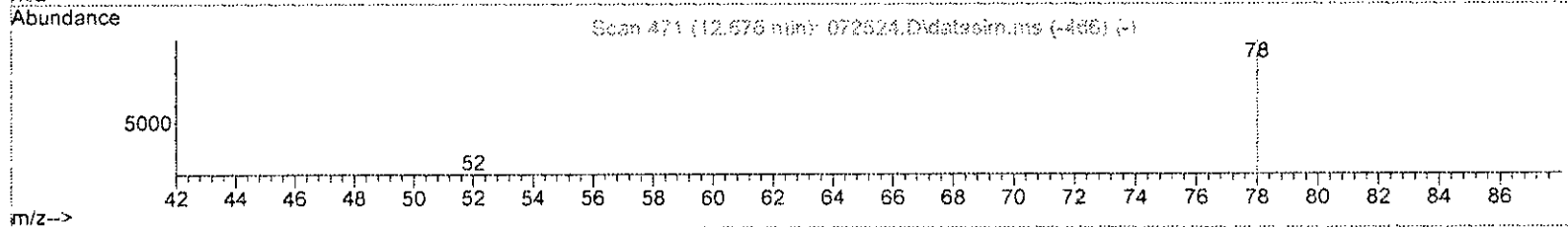
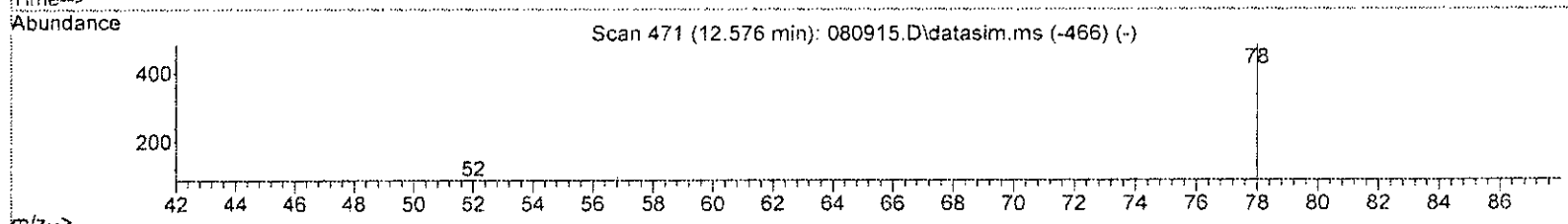
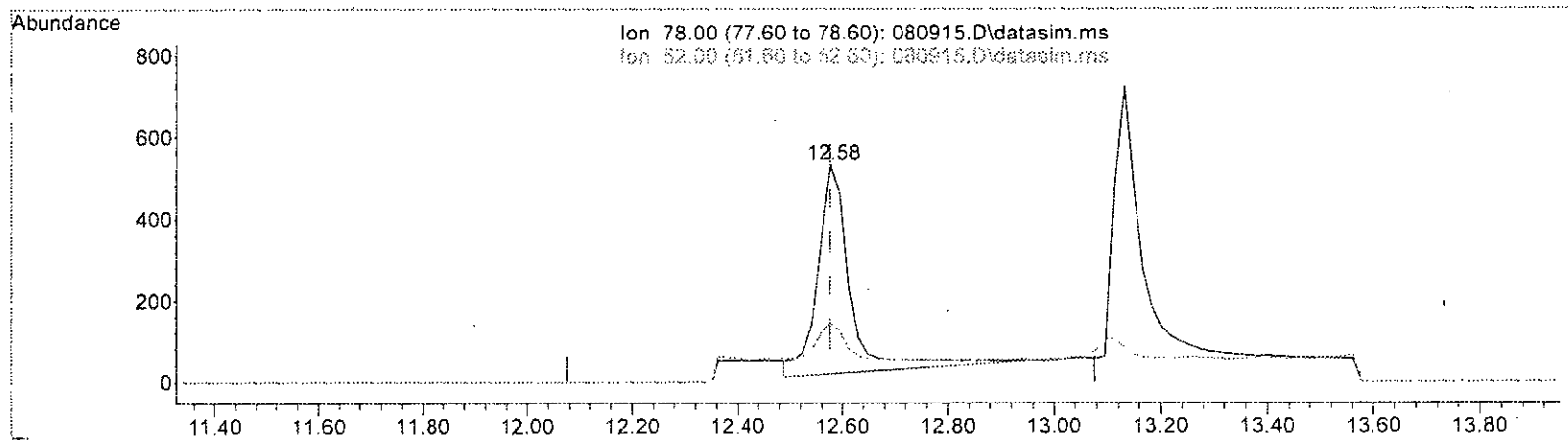
NAD 8/10/23



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

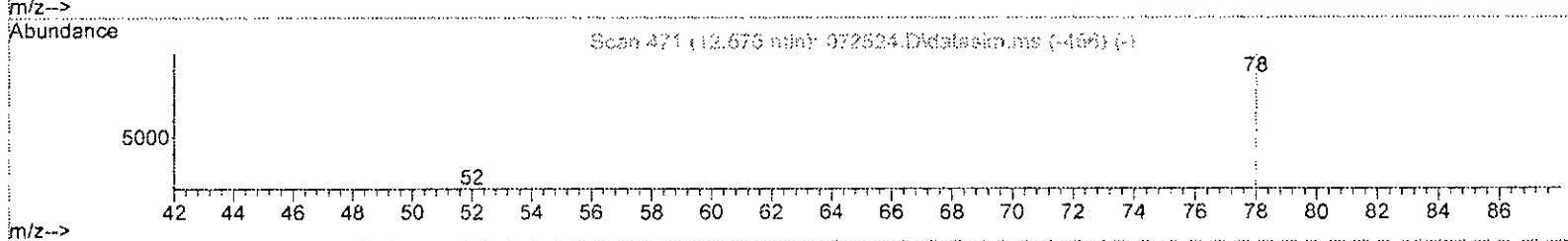
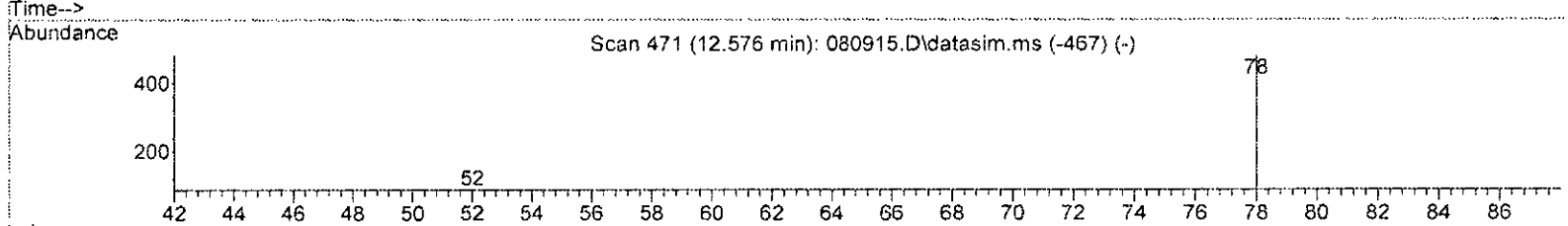
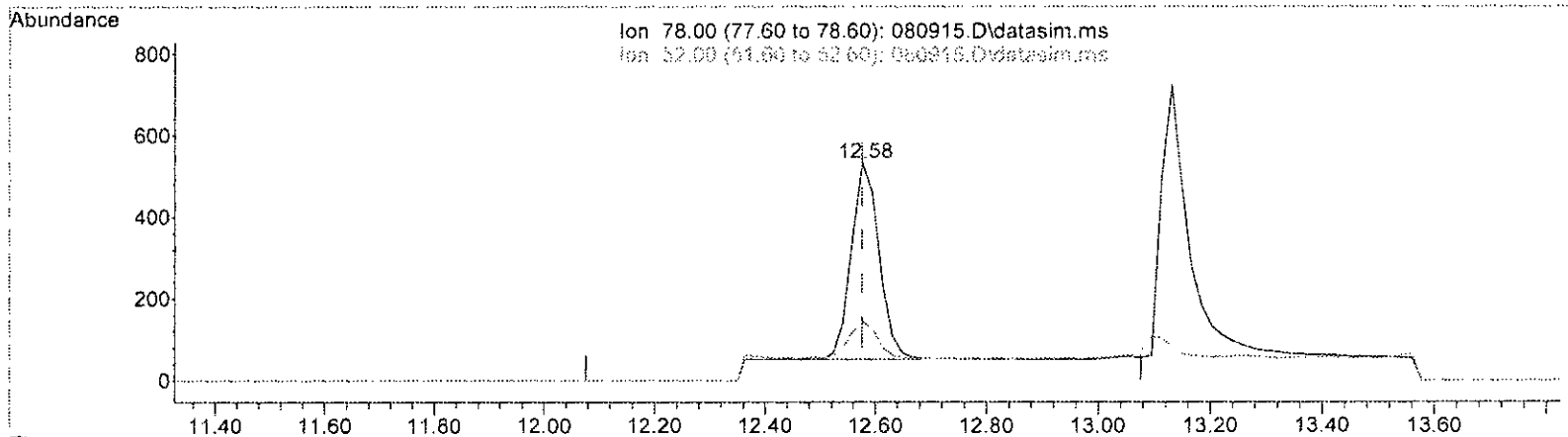
(37) Benzene (TMP)		
12.576min (+ 0.000)	0.208	ppbv
response	2244	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	18.50
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080915.D\data.ms

(37) Benzene (TMP)		
12.576min (+ 0.000)	0.156 ppbv m	
response	1672	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	27.02
0.00	0.00	0.00
0.00	0.00	0.00

*MO 8/10/23*

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

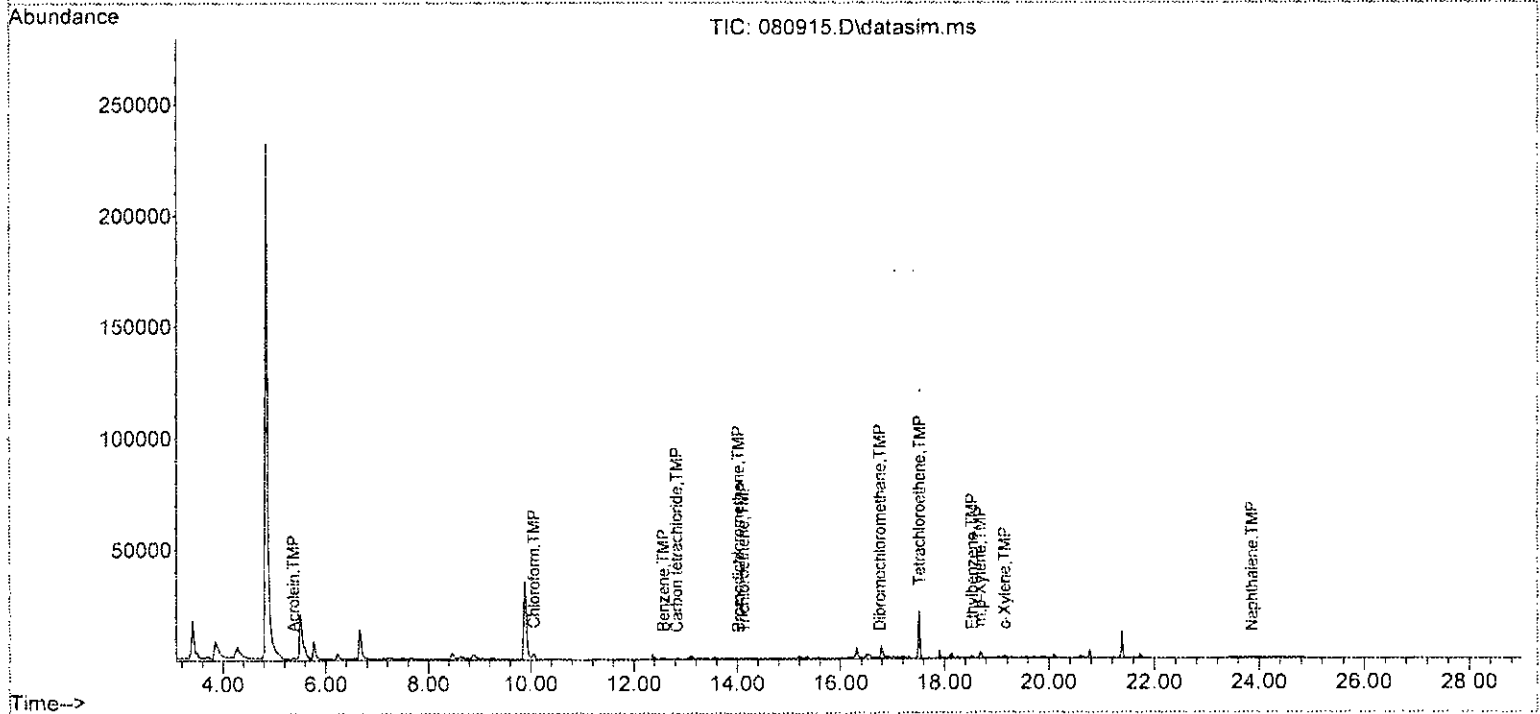
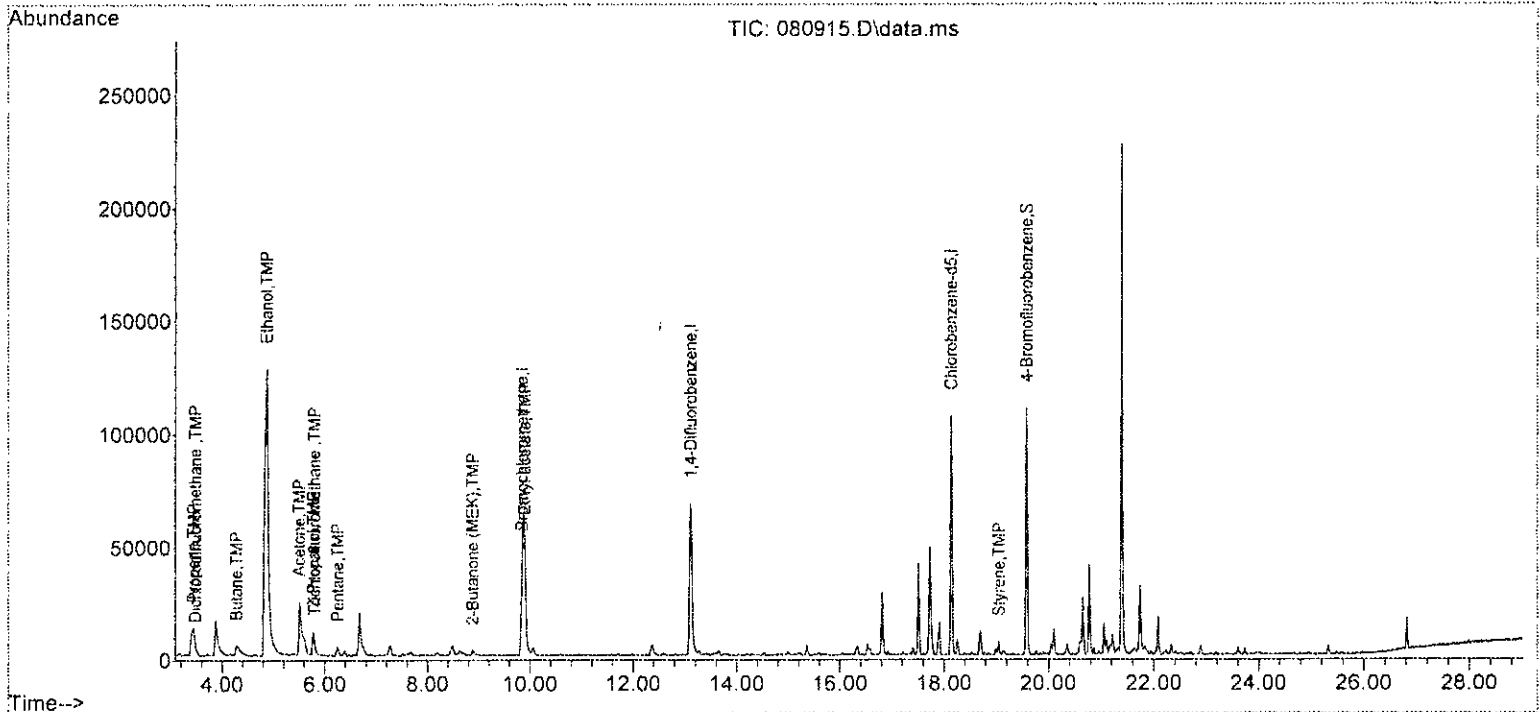
Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 55 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

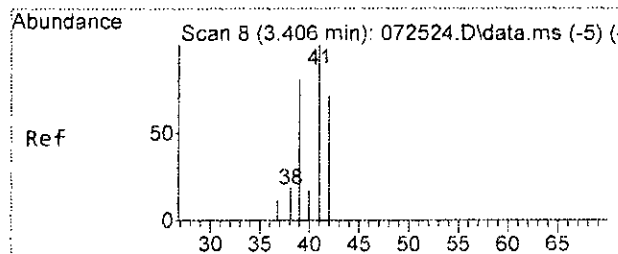
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.85	128	19166	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.11	114	77466	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	69091	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	47594	9.296	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.00%	
Target Compounds						
						Qvalue
2) Propene	3.45	41	9208	3.935	ppbv #	38
3) Dichlorodifluoromethane	3.49	85	3731	0.396	ppbv	94
8) Butane	4.28	43	15231	3.200	ppbv	93
12) Ethanol	4.88	45	337711	324.207	ppbv	93
13] Acrolein	5.38	56	1447m	1.036	ppbv	
14) Pentane	6.25	43	4208	0.773	ppbv	95
15) Trichlorofluoromethane	5.80	101	1948	0.212	ppbv	77
16) Acetone	5.51	58	18241	14.195	ppbv	96
17) 2-Propanol	5.78	45	23634	4.209	ppbv	99
30] Chloroform	10.07	83	4866	0.607	ppbv	100
31) Ethyl acetate	9.90	43	104204	14.088	ppbv #	98
33) 2-Butanone (MEK)	8.88	72	883	0.771	ppbv	93
36] Carbon tetrachloride	12.83	117	548m	0.081	ppbv	
37] Benzene	12.58	78	1672m	0.156	ppbv	
45] Bromodichloromethane	14.02	83	224	0.029	ppbv	99
46] Trichloroethene	14.12	95	94	0.019	ppbv	93
53] Tetrachloroethene	17.52	164	10135	2.905	ppbv	91
54] Dibromochloromethane	16.76	129	27	0.004	ppbv	85
58] Ethylbenzene	18.53	91	1392	0.112	ppbv	100
65] m,p-Xylene	18.68	106	1440	0.343	ppbv	95
66] o-Xylene	19.15	106	551	0.144	ppbv	94
67) Styrene	19.05	104	3172	0.598	ppbv	93
77] Naphthalene	23.86	128	347	0.048	ppbv	98

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

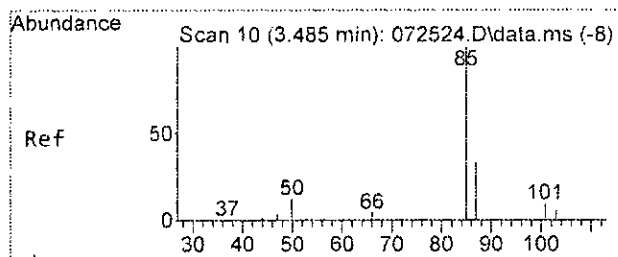
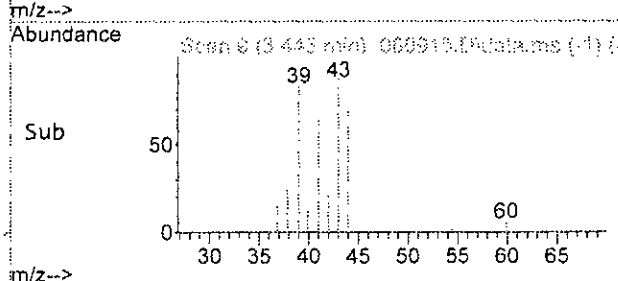
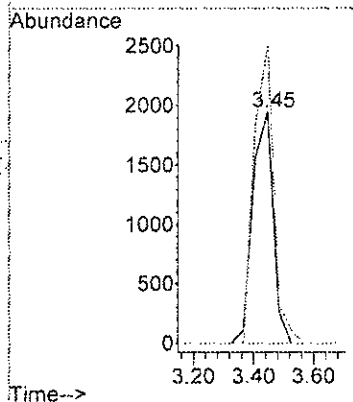
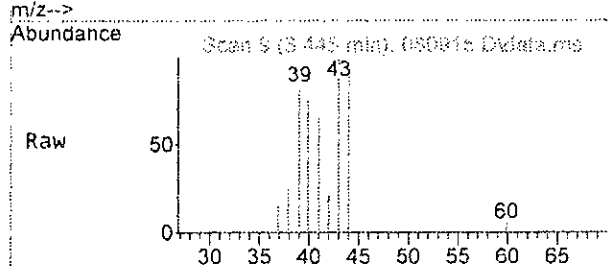
Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M





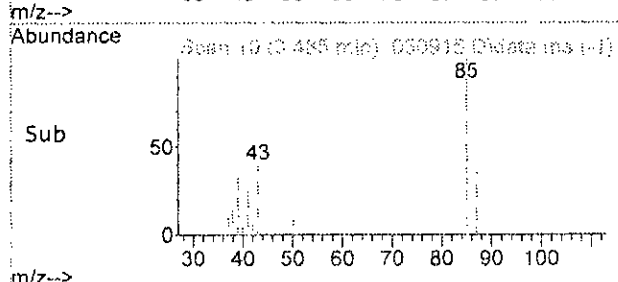
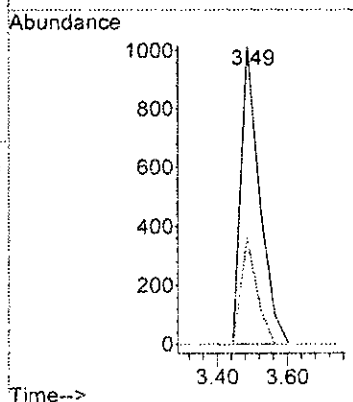
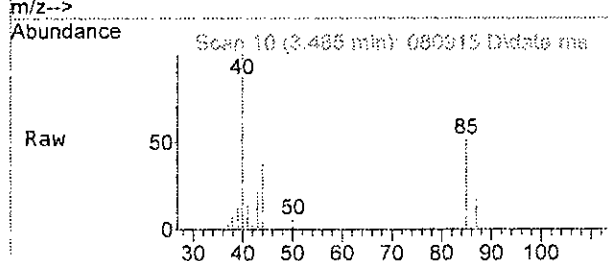
#2  
 Propene  
 Concen: 3.935 ppbv  
 RT: 3.45 min Scan# 9  
 Delta R.T. 0.039 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

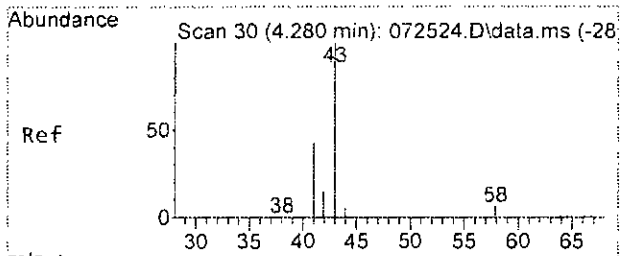
Tgt Ion	Resp	Lower	Upper
41	9208		
39	128.8	45.6	105.6#
27	0.0	0.0	30.0



#3  
 Dichlorodifluoromethane  
 Concen: 0.396 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

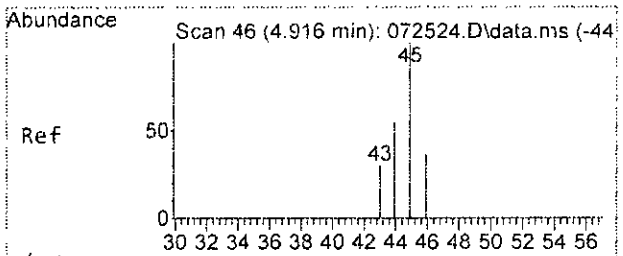
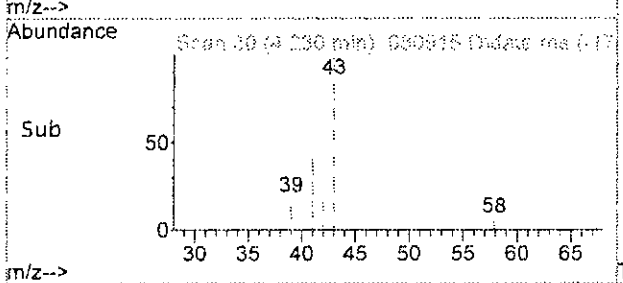
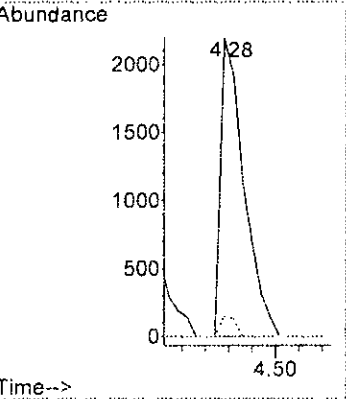
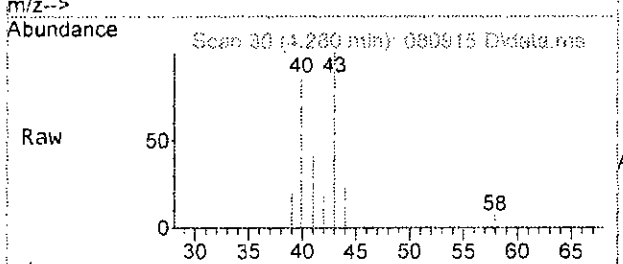
Tgt Ion	Resp	Lower	Upper
85	3731		
87	35.5	2.2	62.2





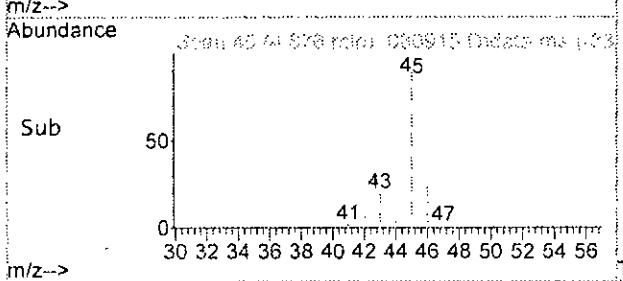
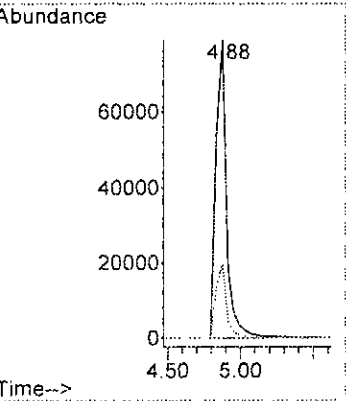
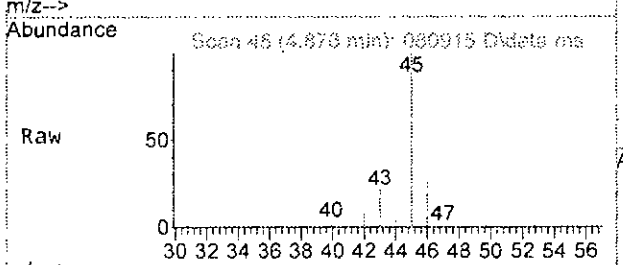
#8  
 Butane  
 Concen: 3.200 ppbv  
 RT: 4.28 min Scan# 30  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

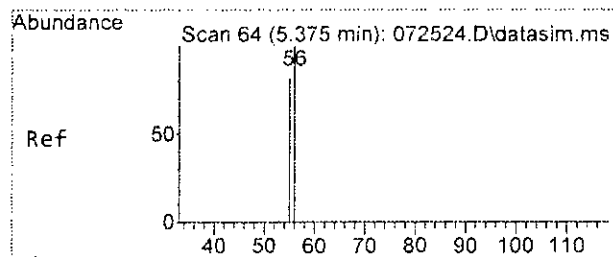
Tgt Ion: 43 Resp: 15231  
 Ion Ratio Lower Upper  
 43 100  
 58 4.4 0.0 36.9



#12  
 Ethanol  
 Concen: 324.207 ppbv  
 RT: 4.88 min Scan# 45  
 Delta R.T. -0.040 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

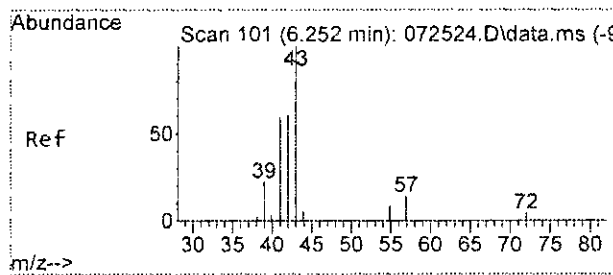
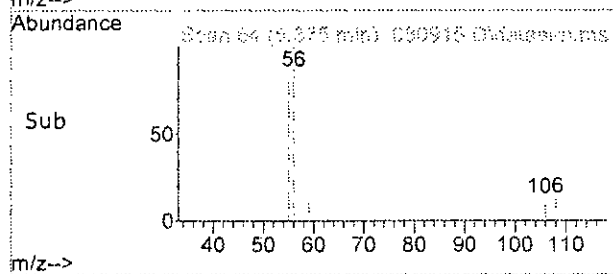
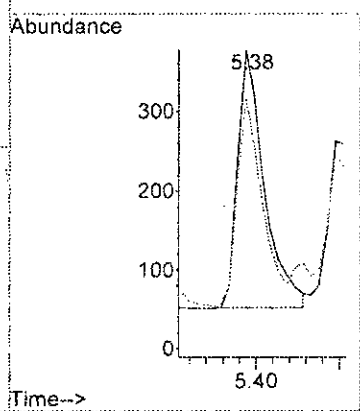
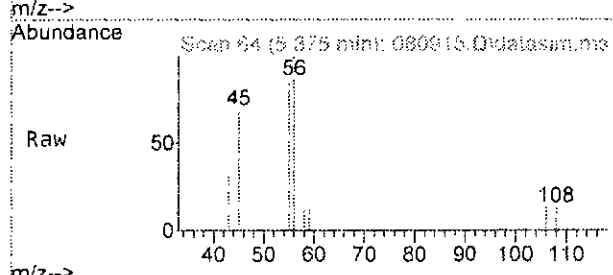
Tgt Ion: 45 Resp: 337711  
 Ion Ratio Lower Upper  
 45 100  
 46 29.1 0.0 55.5





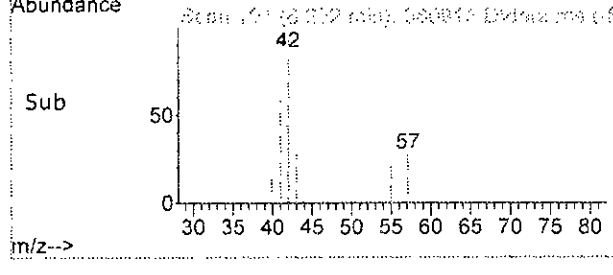
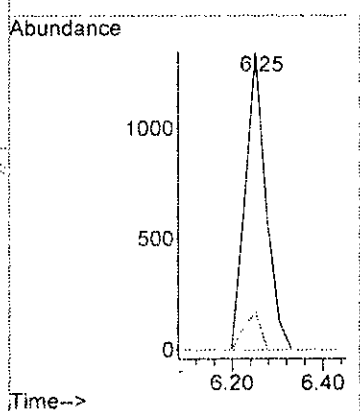
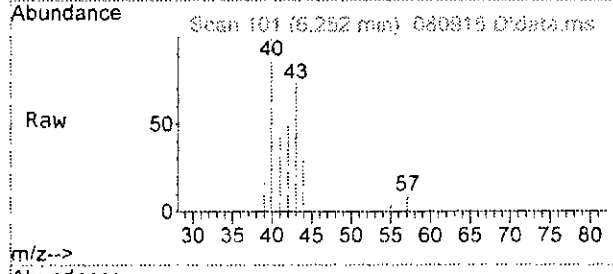
#13  
 Acrolein  
 Concen: 1.036 ppbv m  
 RT: 5.38 min Scan# 64  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

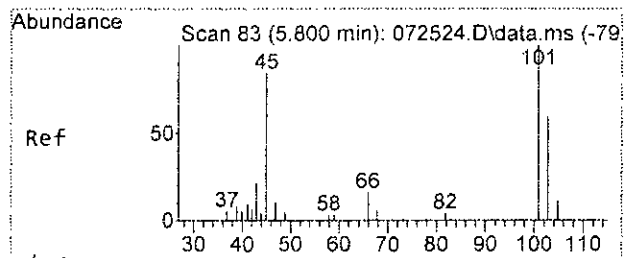
Tgt Ion	Resp	Lower	Upper
56	100		
55	97.7	51.0	111.0



#14  
 Pentane  
 Concen: 0.773 ppbv  
 RT: 6.25 min Scan# 101  
 Delta R.T. -0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

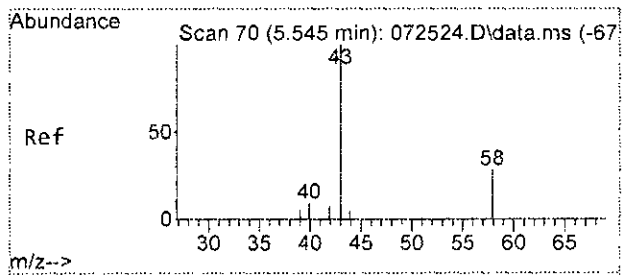
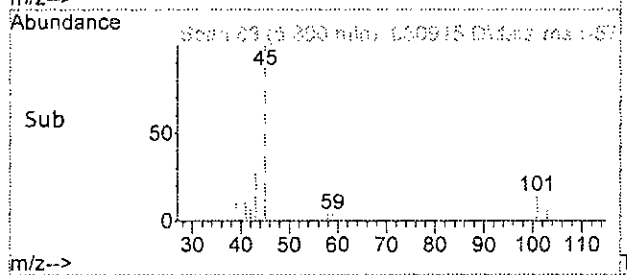
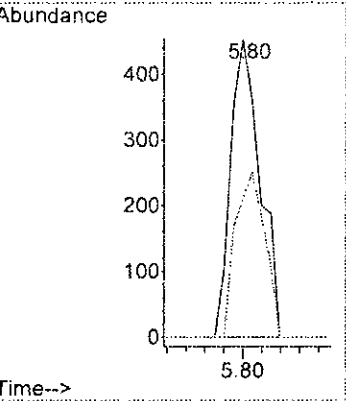
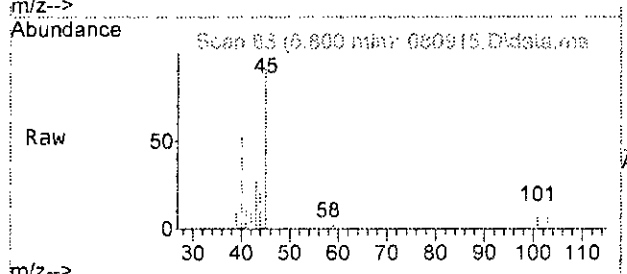
Tgt Ion	Resp	Lower	Upper
43	100		
57	12.7	0.0	43.5
72	0.0	0.0	34.2





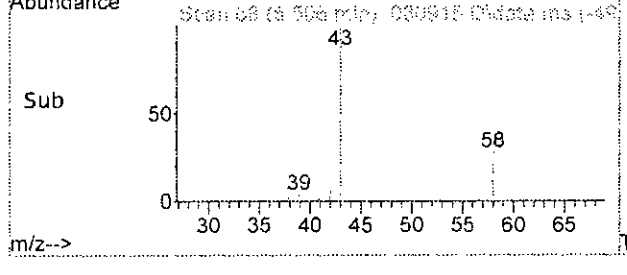
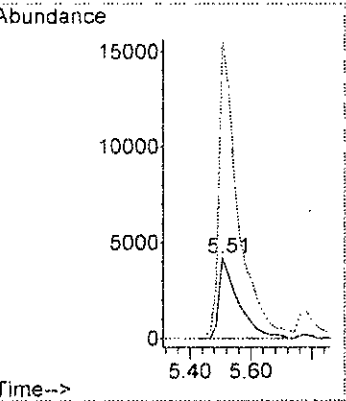
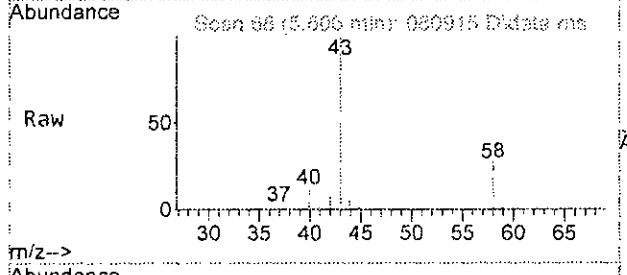
#15  
 Trichlorofluoromethane  
 Concen: 0.212 ppbv  
 RT: 5.80 min Scan# 83  
 Delta R.T. -0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

Tgt Ion: 101 Resp: 1948  
 Ion Ratio Lower Upper  
 101 100  
 103 46.1 34.5 94.5

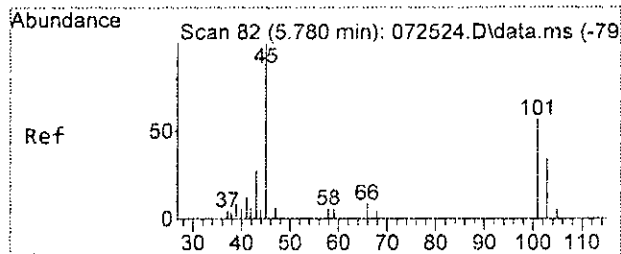


#16  
 Acetone  
 Concen: 14.195 ppbv  
 RT: 5.51 min Scan# 68  
 Delta R.T. -0.039 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

Tgt Ion: 58 Resp: 18241  
 Ion Ratio Lower Upper  
 58 100  
 43 368.1 329.3 389.3

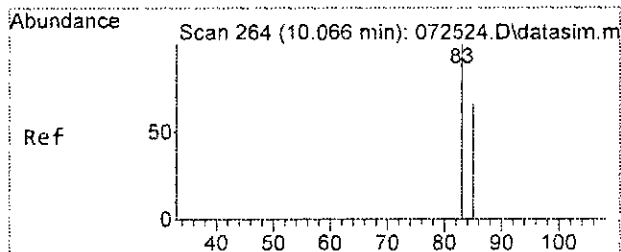
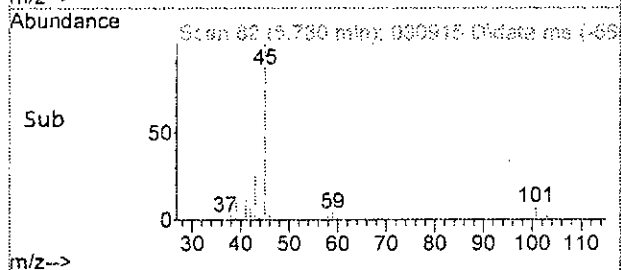
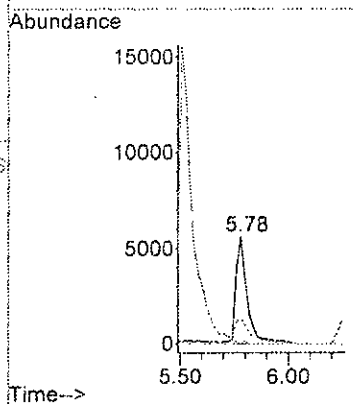
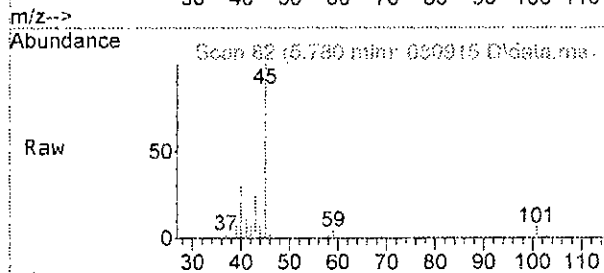






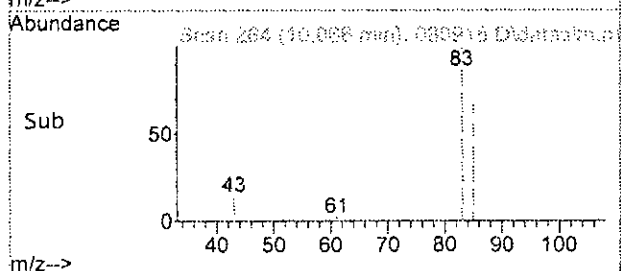
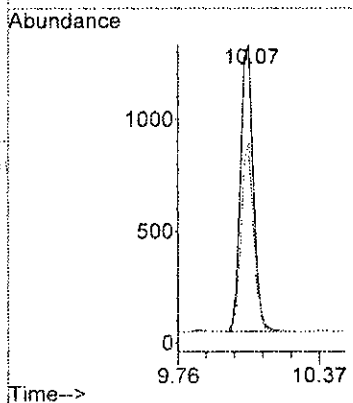
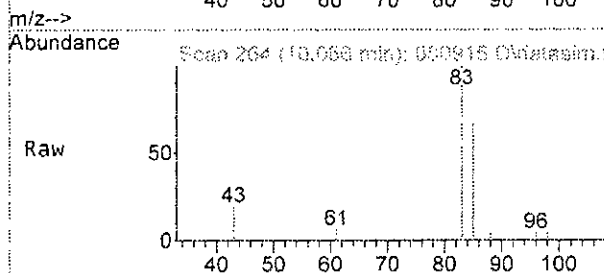
#17  
 2-Propanol  
 Concen: 4.209 ppbv  
 RT: 5.78 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

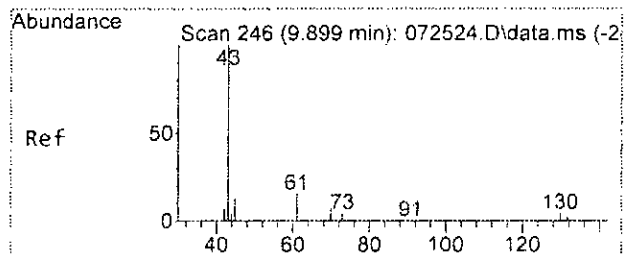
Tgt Ion	Resp	Lower	Upper
45	100		
43	25.8	0.0	30.0
59	4.0	0.0	33.6



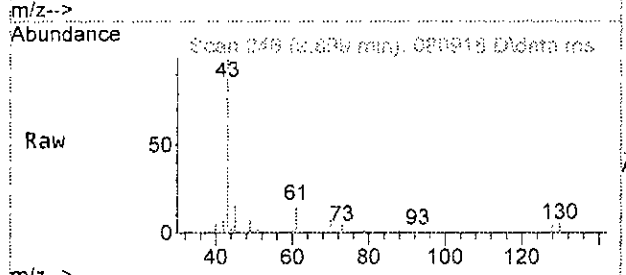
#30  
 Chloroform  
 Concen: 0.607 ppbv  
 RT: 10.07 min Scan# 264  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

Tgt Ion	Resp	Lower	Upper
83	100		
85	66.0	36.3	96.3

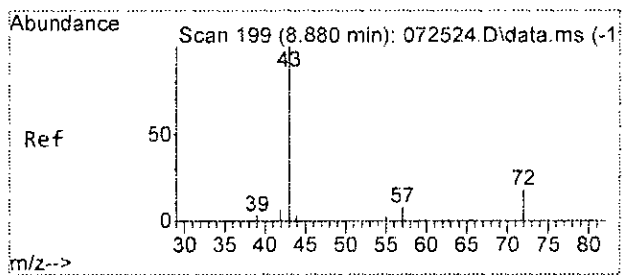
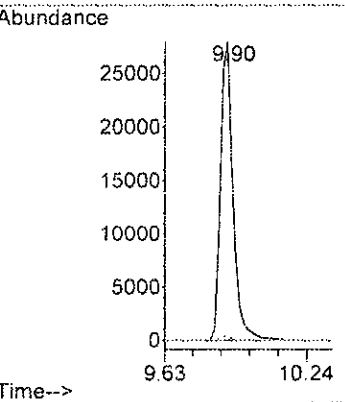
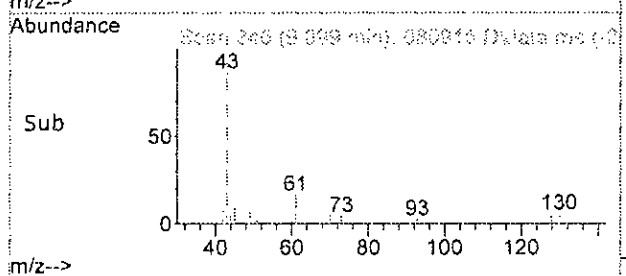




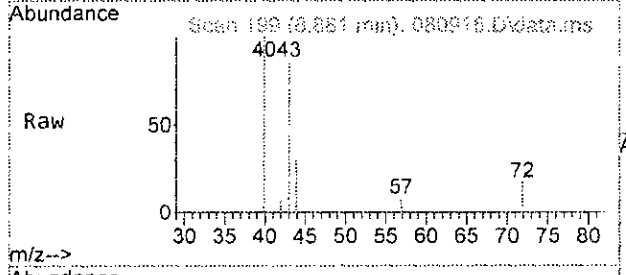
#31  
Ethyl acetate  
Concen: 14.088 ppbv  
RT: 9.90 min Scan# 246  
Delta R.T. 0.000 min  
Lab File: 080915.D  
Acq: 9 Aug 2023 8:08 pm



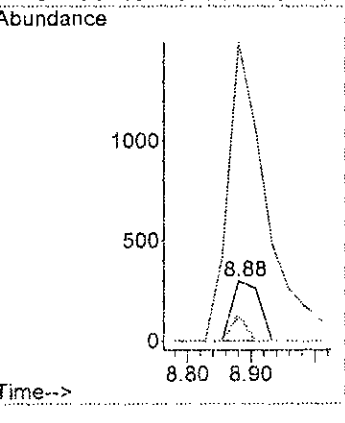
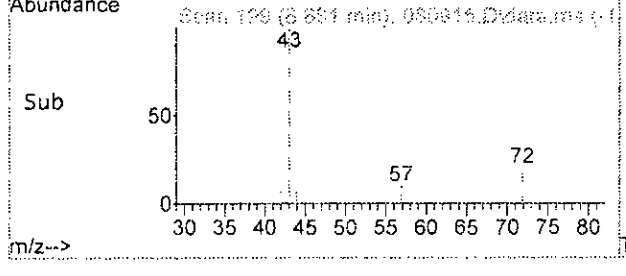
Tgt Ion: 43 Resp: 104204  
Ion Ratio Lower Upper  
43 100  
88 1.0 1.4 2.0#

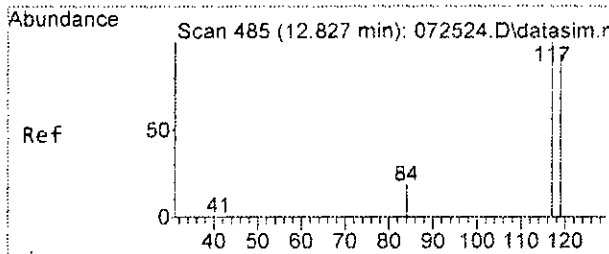


#33  
2-Butanone (MEK)  
Concen: 0.771 ppbv  
RT: 8.88 min Scan# 199  
Delta R.T. 0.001 min  
Lab File: 080915.D  
Acq: 9 Aug 2023 8:08 pm



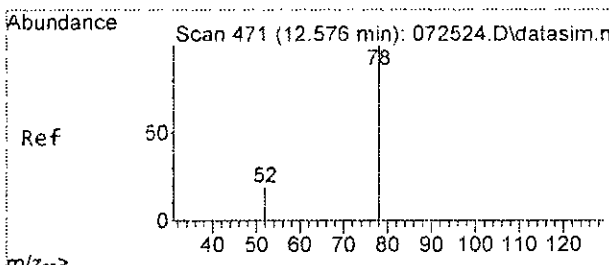
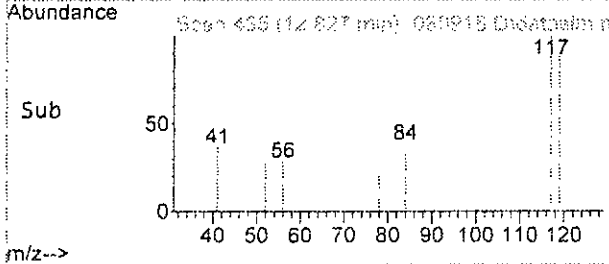
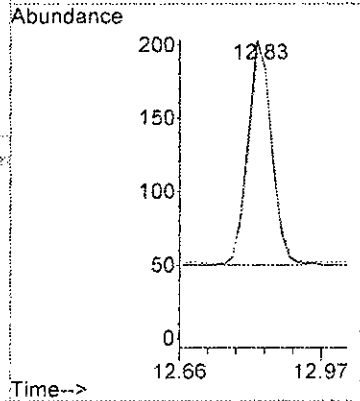
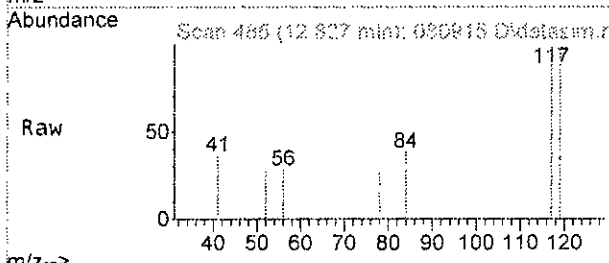
Tgt Ion: 72 Resp: 883  
Ion Ratio Lower Upper  
72 100  
42 40.9 0.0 59.9  
57 48.0 14.2 74.2  
43 502.3 501.6 541.6





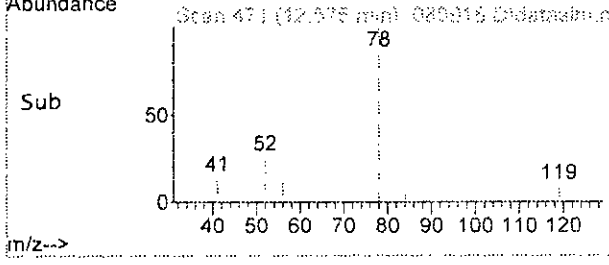
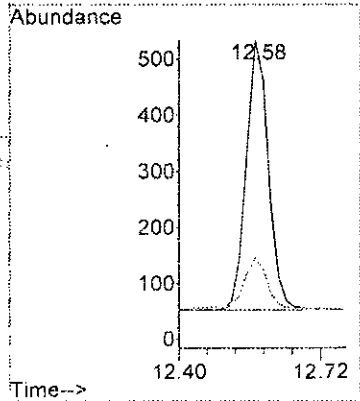
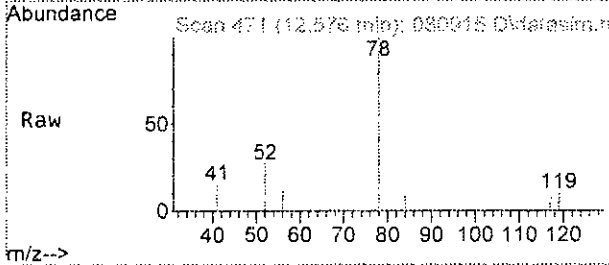
#36  
 Carbon tetrachloride  
 Concen: 0.081 ppbv m  
 RT: 12.83 min Scan# 485  
 Delta R.T. -0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

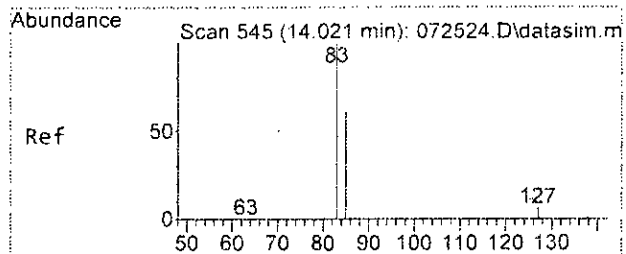
Tgt Ion: 117 Resp: 548  
 Ion Ratio Lower Upper  
 117 100  
 119 95.6 64.6 124.6



#37  
 Benzene  
 Concen: 0.156 ppbv m  
 RT: 12.58 min Scan# 471  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

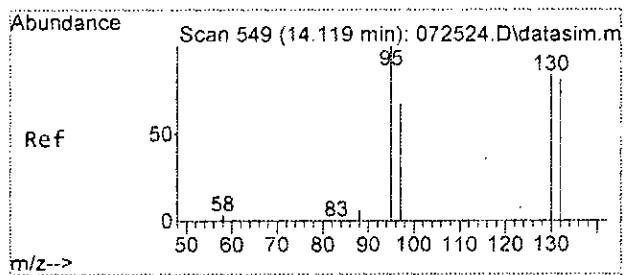
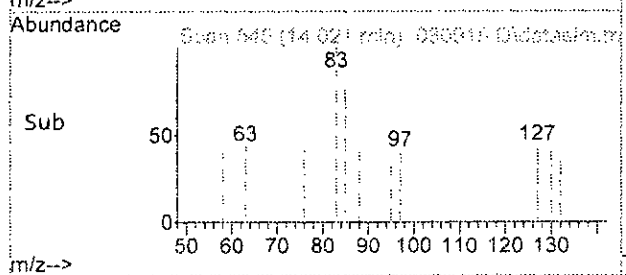
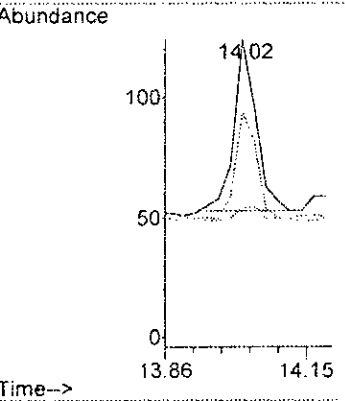
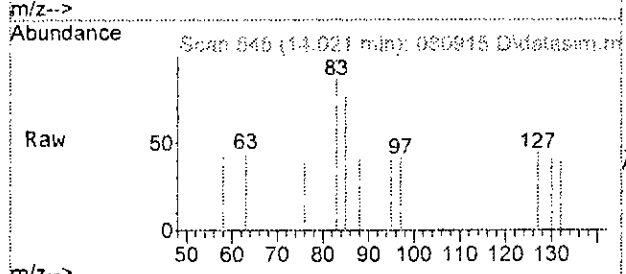
Tgt Ion: 78 Resp: 1672  
 Ion Ratio Lower Upper  
 78 100  
 52 27.0 0.0 49.7





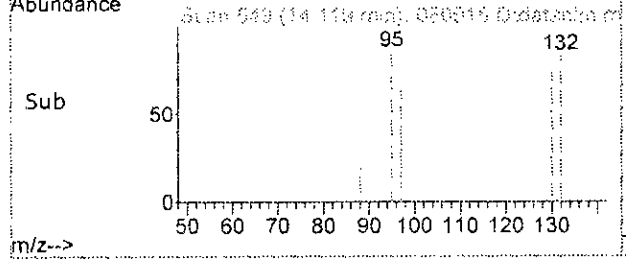
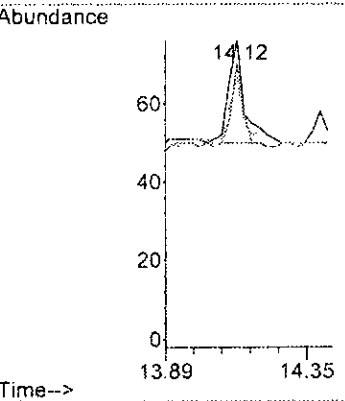
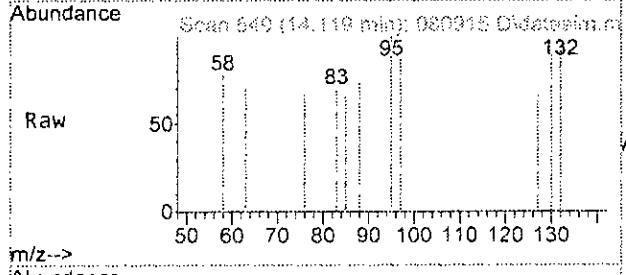
#45  
 Bromodichloromethane  
 Concen: 0.029 ppbv  
 RT: 14.02 min Scan# 545  
 Delta R.T. -0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

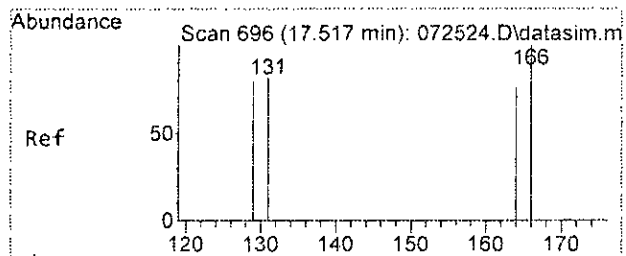
Tgt Ion	Resp	Lower	Upper
83	100		
85	62.0	31.0	91.0
127	7.0	0.0	30.0



#46  
 Trichloroethene  
 Concen: 0.019 ppbv  
 RT: 14.12 min Scan# 549  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

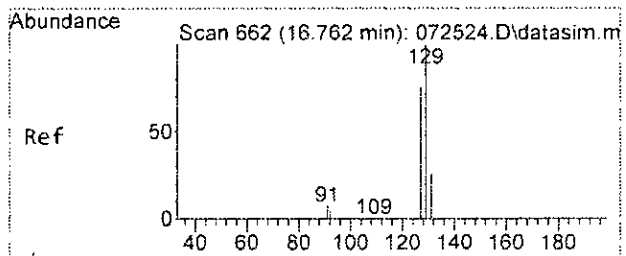
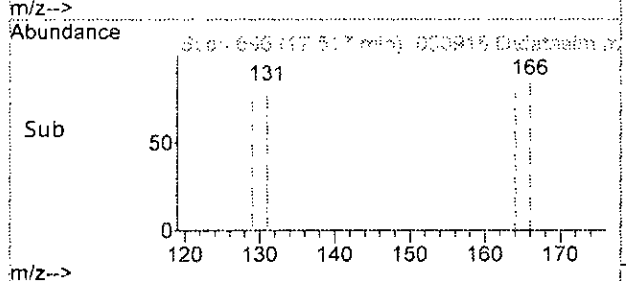
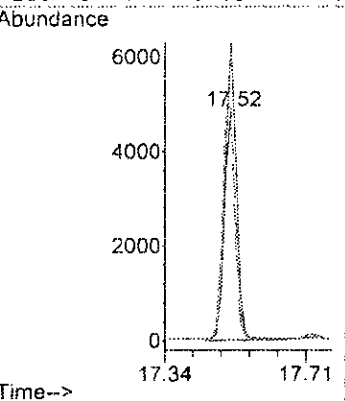
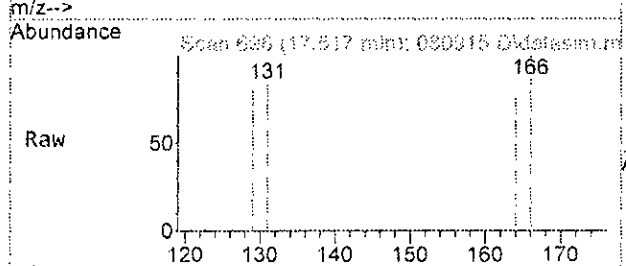
Tgt Ion	Resp	Lower	Upper
95	100		
97	65.4	37.1	97.1
130	76.9	56.1	116.1
132	76.9	54.3	114.3





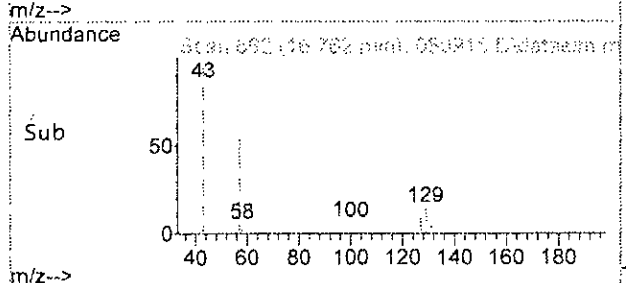
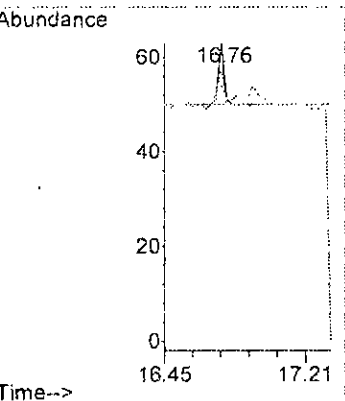
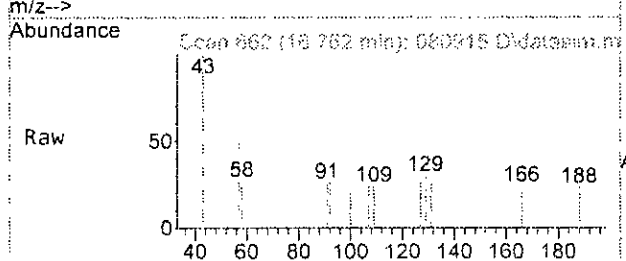
#53  
 Tetrachloroethene  
 Concen: 2.905 ppbv  
 RT: 17.52 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

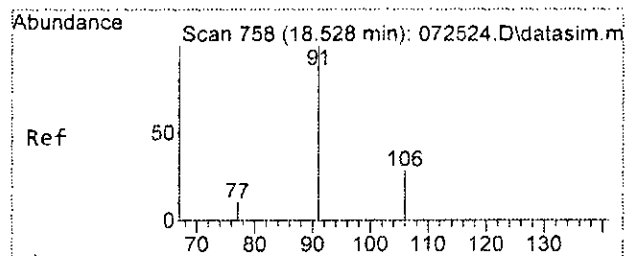
Tgt Ion	Resp	Lower	Upper
164	100		
129	106.1	63.2	123.2
131	108.4	70.7	130.7
166	129.9	107.5	167.5



#54  
 Dibromochloromethane  
 Concen: 0.004 ppbv  
 RT: 16.76 min Scan# 662  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

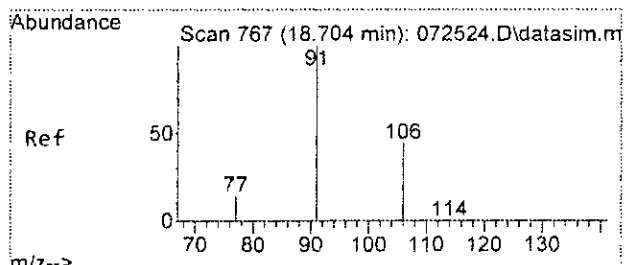
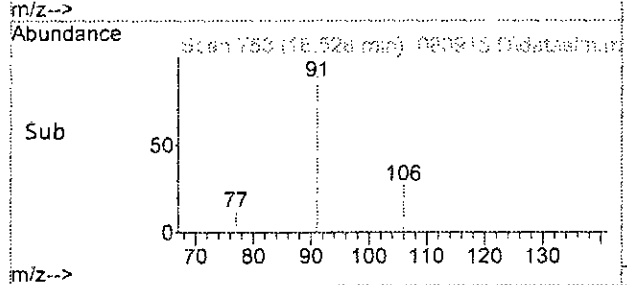
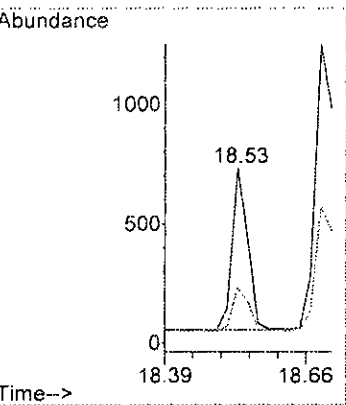
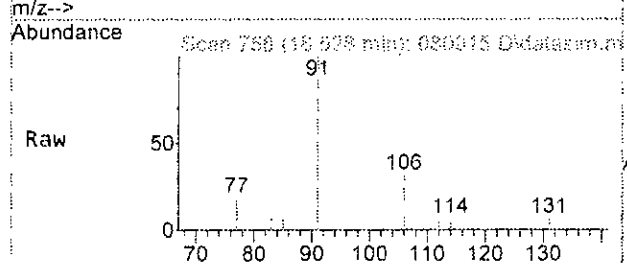
Tgt Ion	Resp	Lower	Upper
129	100		
127	69.2	51.9	111.9
131	30.8	0.0	52.3





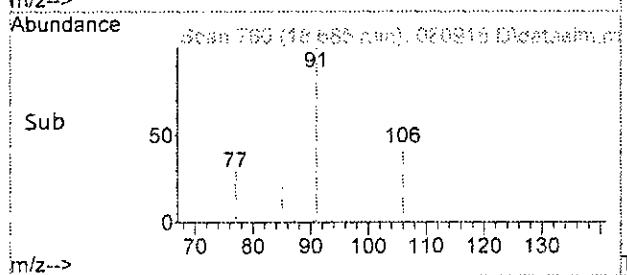
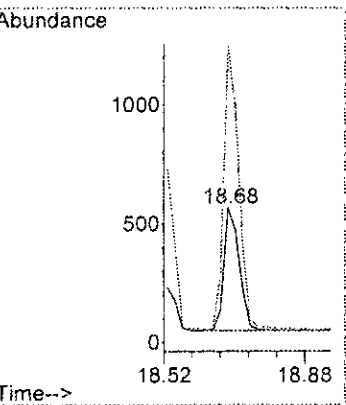
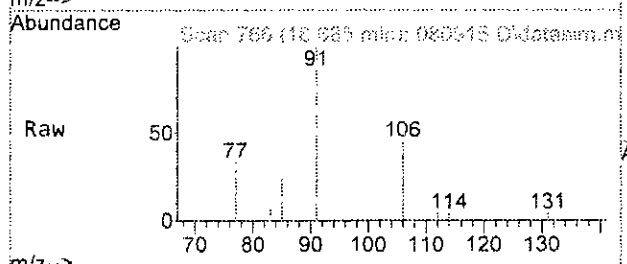
#58  
 Ethylbenzene  
 Concen: 0.112 ppbv  
 RT: 18.53 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

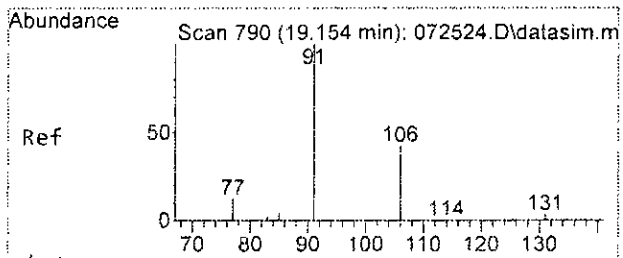
Tgt Ion: 91 Resp: 1392  
 Ion Ratio Lower Upper  
 91 100  
 106 26.8 0.0 57.0



#65  
 m,p-Xylene  
 Concen: 0.343 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

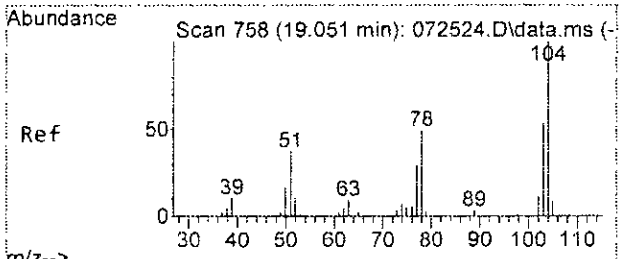
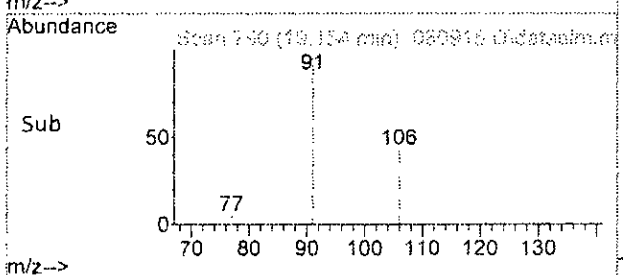
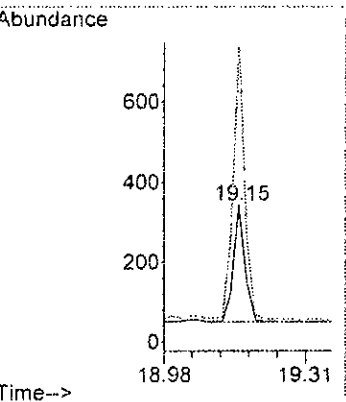
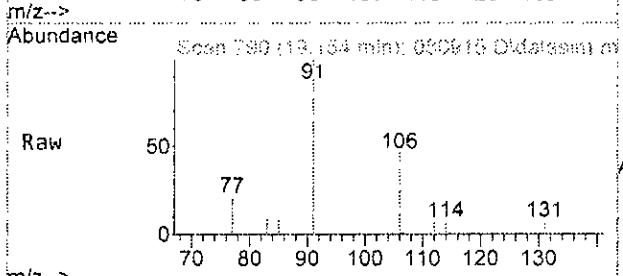
Tgt Ion: 106 Resp: 1440  
 Ion Ratio Lower Upper  
 106 100  
 91 231.5 193.0 253.0





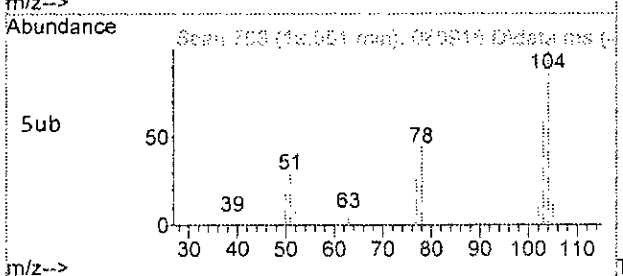
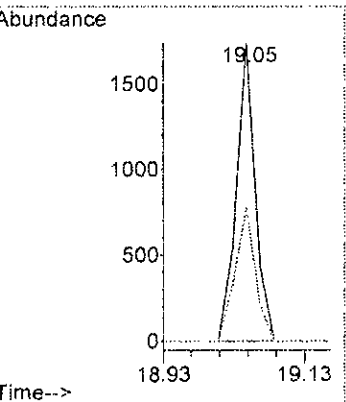
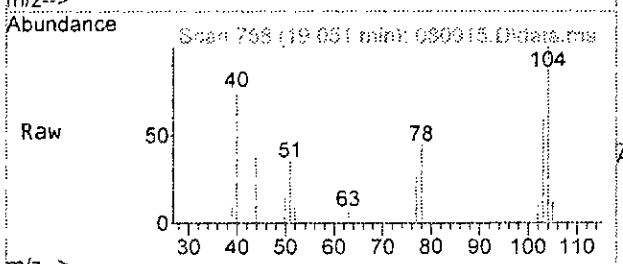
#66  
 o-Xylene  
 Concen: 0.144 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

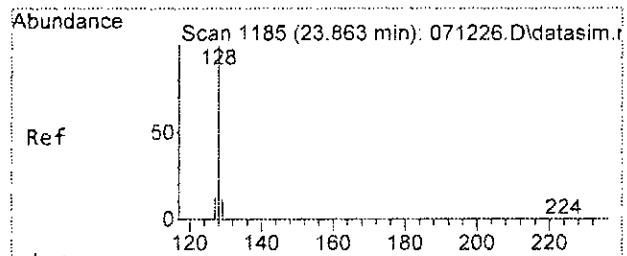
Tgt Ion: 106 Resp: 551  
 Ion Ratio Lower Upper  
 106 100  
 91 234.9 194.4 254.4



#67  
 Styrene  
 Concen: 0.598 ppbv  
 RT: 19.05 min Scan# 758  
 Delta R.T. -0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

Tgt Ion: 104 Resp: 3172  
 Ion Ratio Lower Upper  
 104 100  
 78 44.5 19.6 79.6

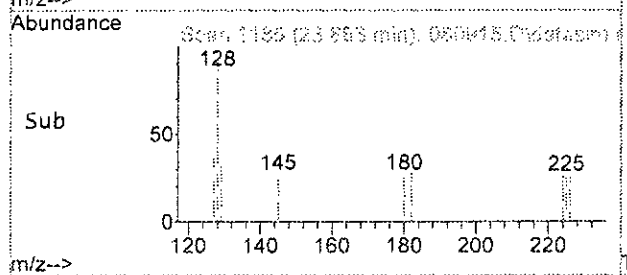
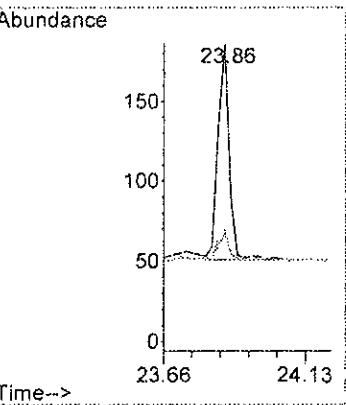
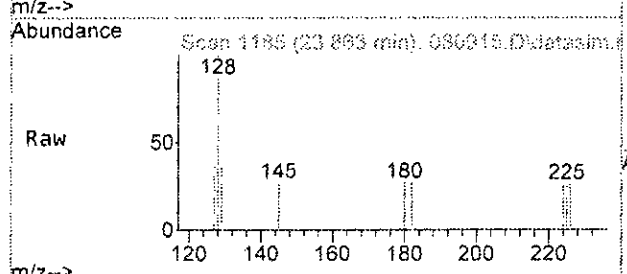




#77  
 Naphthalene  
 Concen: 0.048 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080915.D  
 Acq: 9 Aug 2023 8:08 pm

Tgt Ion: 128 Resp: 347

Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	41.0
127	14.1	0.0	43.2





Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.85	128	19166	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.11	114	77466	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	69091	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	47594	9.296	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	93.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.45	41	9208	3.935	ppbv #	38
3) Dichlorodifluoromethane	3.49	85	3731	0.396	ppbv	94
4) Chloromethane	3.69	50	1650	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	4.28	43	15231	3.200	ppbv	93
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.88	45	337711	324.207	ppbv	93
13] Acrolein	5.38	56	1447m	1.036	ppbv	
14) Pentane	6.25	43	4208	0.773	ppbv	95
15) Trichlorofluoromethane	5.80	101	1948	0.212	ppbv	77
16) Acetone	5.51	58	18241	14.195	ppbv	96
17) 2-Propanol	5.78	45	23634	4.209	ppbv	99
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	6.75	84	2083	N.D.		
21) t-Butyl alcohol (TBA)	6.67	59	3066	N.D.		
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	7.12	101	181	N.D.		
24) Carbon disulfide	7.22	76	1808	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	8.49	43	4021	N.D.		
27) 1,1-Dichloroethane	8.47	63	65	N.D.		
28) cis-1,2-Dichloroethene	9.60	96	20	N.D.		
29) Hexane	9.99	57	580	N.D.		
30] Chloroform	10.07	83	4866	0.607	ppbv	100
31) Ethyl acetate	9.90	43	104204	14.088	ppbv #	98
32) Tetrahydrofuran	0.00		0	N.D.		
33) 2-Butanone (MEK)	8.88	72	883	0.771	ppbv	93
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d	
35) 1,1,1-Trichloroethane	11.51	97	318	N.D.		
36] Carbon tetrachloride	12.83	117	548m	0.081	ppbv	
37] Benzene	12.58	78	1672m	0.156	ppbv	
38) Cyclohexane	0.00		0	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

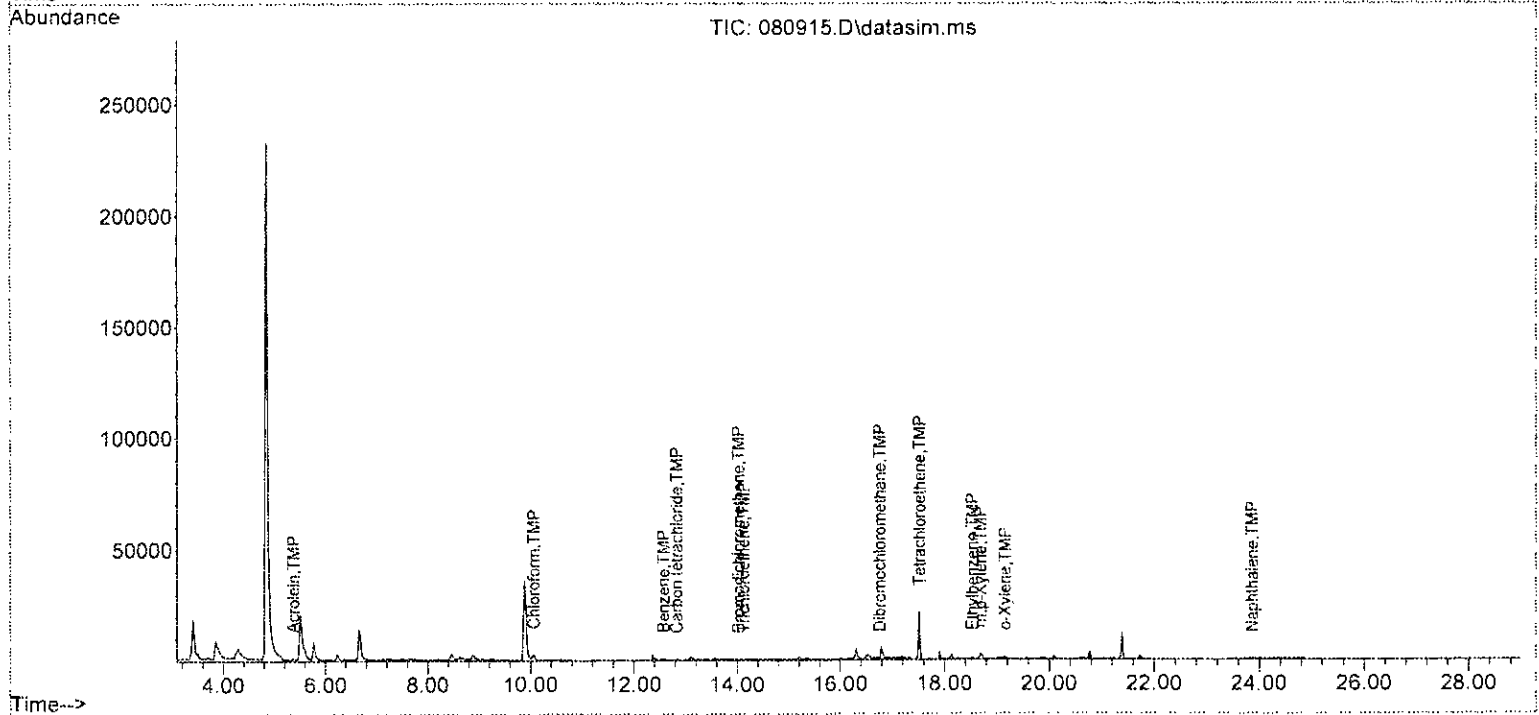
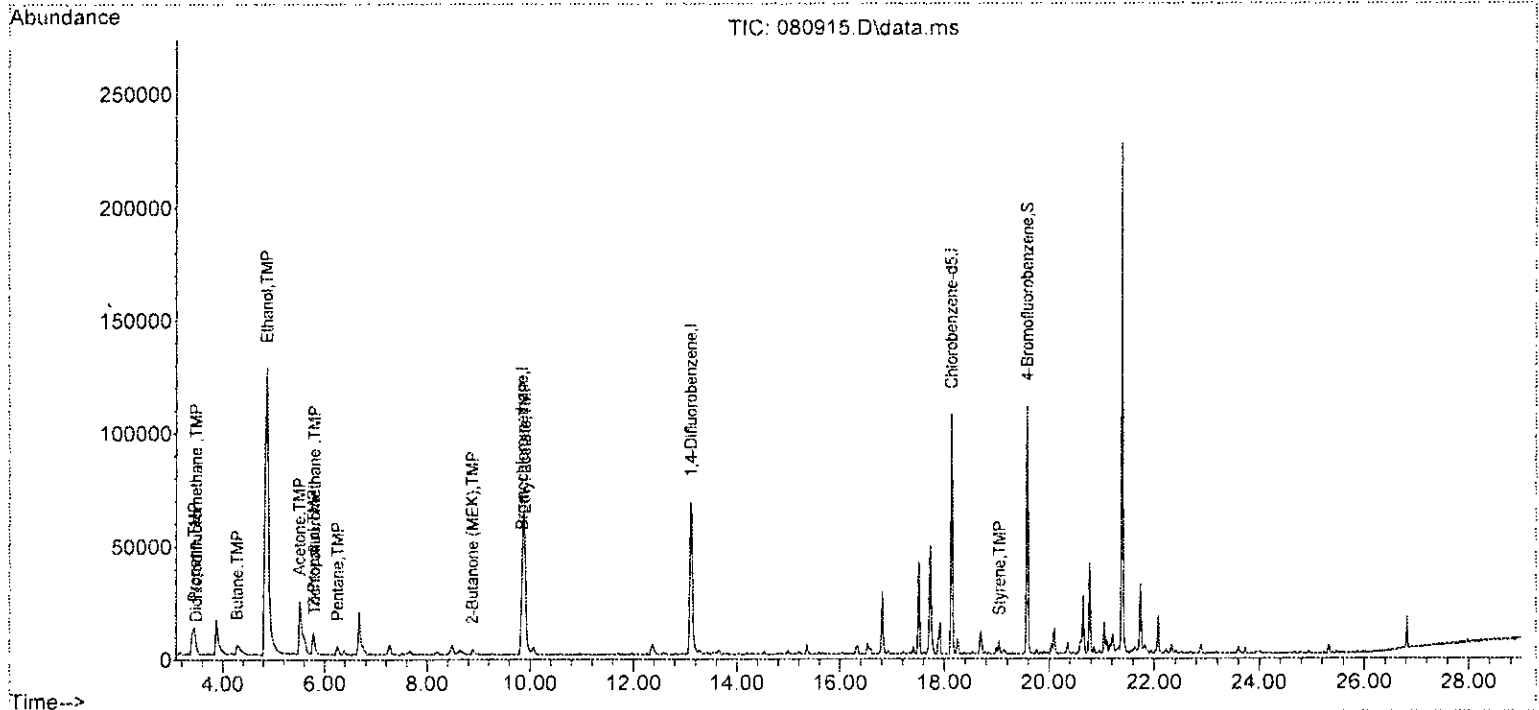
Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	14.14	88	61	N.D.		
42) 2,2,4-Trimethylpentane	14.21	57	526	N.D.		
43) Methyl methacrylate	14.38	41	149	N.D.		
44) Heptane	14.53	43	850	N.D.		
45] Bromodichloromethane	14.02	83	224	0.029	ppbv	99
46] Trichloroethene	14.12	95	94	0.019	ppbv	93
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49) trans-1,3-Dichloropropene	0.00		0	N.D.		
50) Toluene	16.31	92	3775	N.D.		
51) 1,1,2-Trichloroethane	0.00		0	N.D.		
52) 2-Hexanone	0.00		0	N.D.	d	
53] Tetrachloroethene	17.52	164	10135	2.905	ppbv	91
54] Dibromochloromethane	16.76	129	27	0.004	ppbv	85
55) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
57) Chlorobenzene	0.00		0	N.D.		
58] Ethylbenzene	18.53	91	1392	0.112	ppbv	100
59) 1,1,2,2-Tetrachloroethane	18.98	83	55	N.D.		
60) Nonane	19.32	43	302	N.D.		
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.		
63) Propylbenzene	20.20	91	273	N.D.		
64) 4-Ethyltoluene	20.29	105	679	N.D.		
65] m,p-Xylene	18.68	106	1440	0.343	ppbv	95
66] o-Xylene	19.15	106	551	0.144	ppbv	94
67) Styrene	19.05	104	3172	0.598	ppbv	93
68) Bromoform	0.00		0	N.D.		
70) Benzyl chloride	0.00		0	N.D.	d	
71) 1,3,5-Trimethylbenzene	20.39	105	207	N.D.		
72) 1,2,4-Trimethylbenzene	20.77	105	1582	N.D.		
73) 1,3-Dichlorobenzene	21.40	146	64	N.D.		
74) 1,4-Dichlorobenzene	21.40	146	72	N.D.		
75) 1,2-Dichlorobenzene	21.40	146	76	N.D.		
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
77] Naphthalene	23.86	128	347	0.048	ppbv	98
78) Hexachlorobutadiene	0.00		0	N.D.		

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080915.D  
 Acq On : 9 Aug 2023 8:08 pm  
 Operator : bat  
 Sample : 308147-06  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:48 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080920.D  
 Acq On : 9 Aug 2023 11:29 pm  
 Operator : bat  
 Sample : 308147-07 1/5.1  
 Misc : T9  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

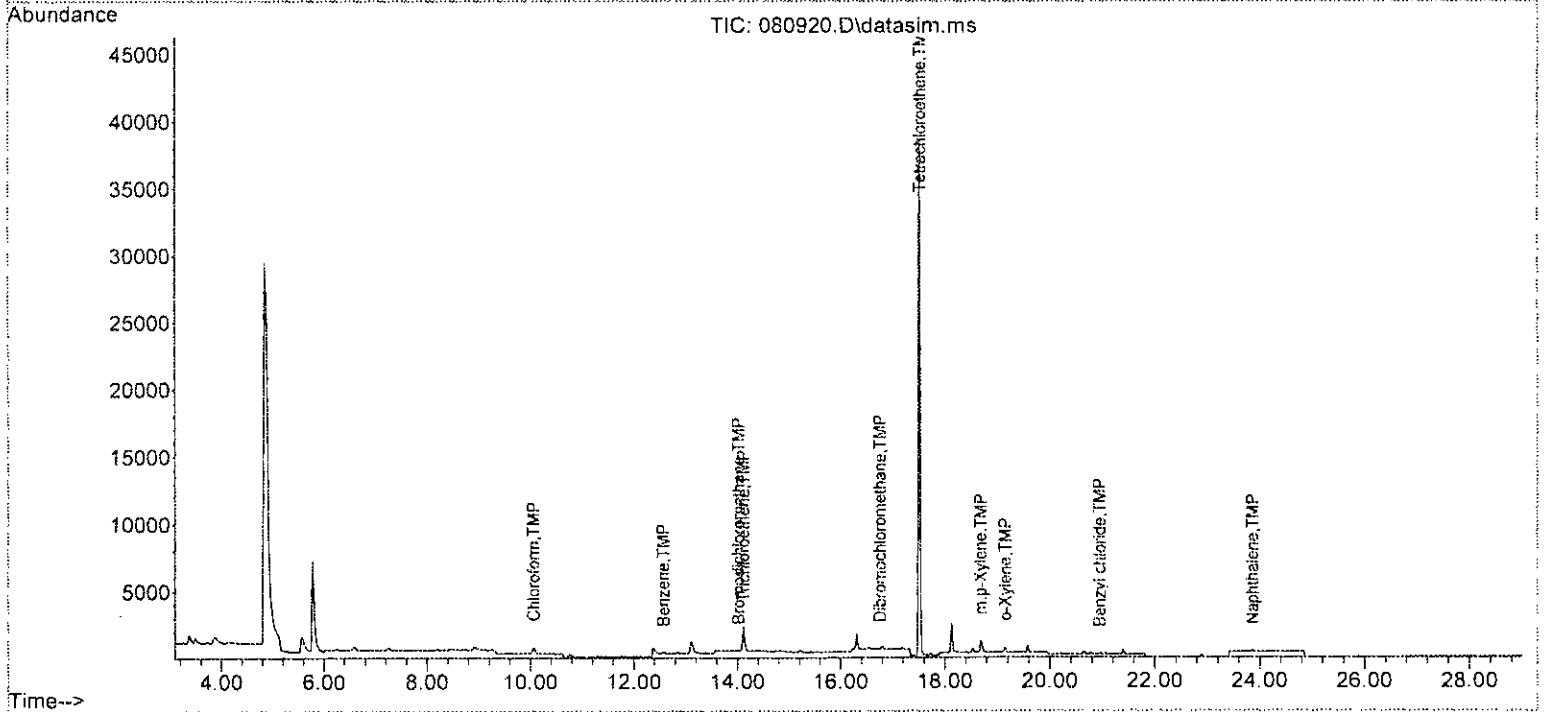
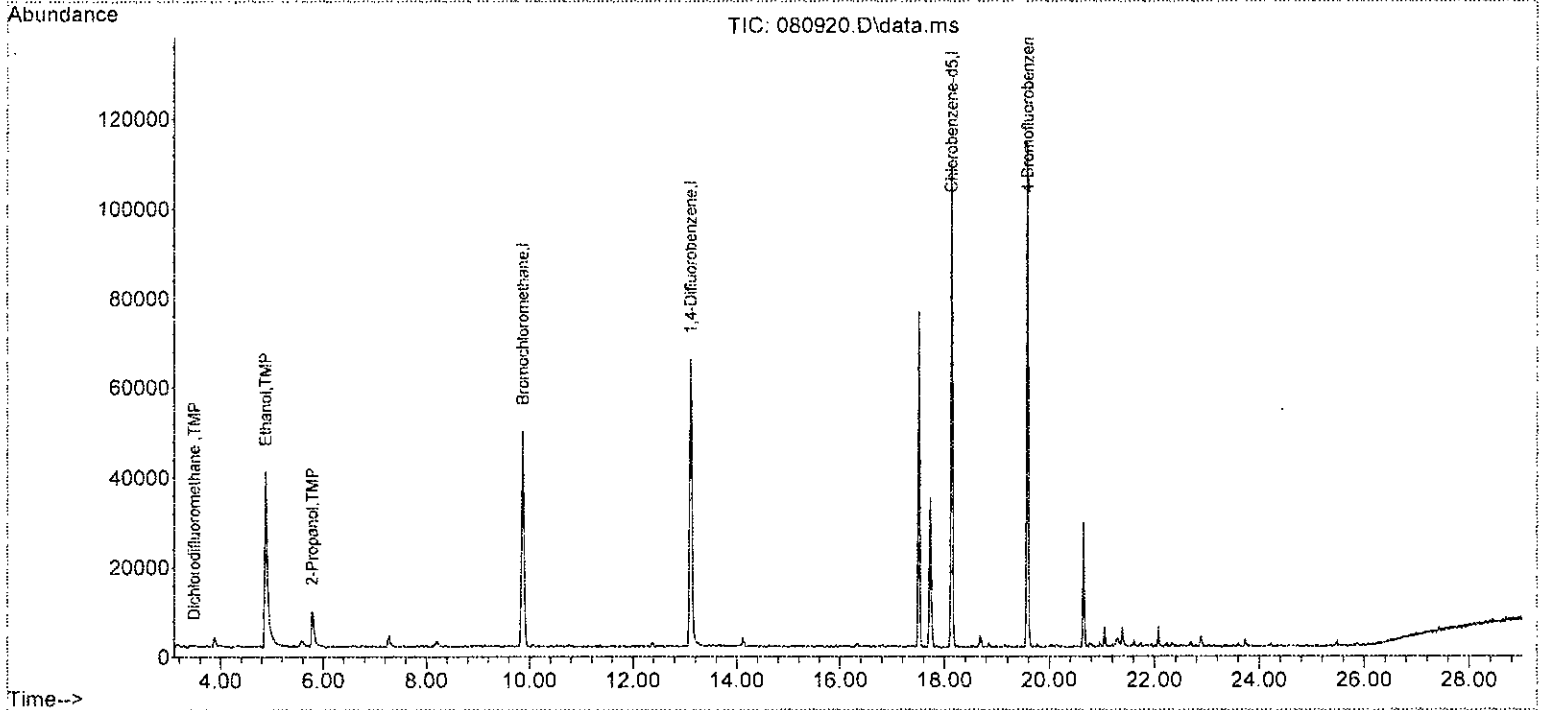
Quant Time: Aug 10 07:21:58 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

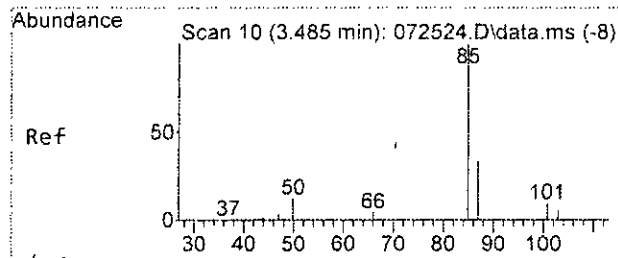
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	20248	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80455	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	70089	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	49220	9.477	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	94.80%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.49	85	691	0.069	ppbv #	42
12) Ethanol	4.88	45	79385	72.138	ppbv	89
17) 2-Propanol	5.78	45	20683	3.486	ppbv	99
30] Chloroform	10.07	83	1079	0.127	ppbv	96
37] Benzene	12.58	78	627	0.055	ppbv	99
45] Bromodichloromethane	14.02	83	66m	0.008	ppbv	
46] Trichloroethene	14.12	95	1474	0.285	ppbv	95
53] Tetrachloroethene	17.52	164	18092	4.993	ppbv	92
54] Dibromochloromethane	16.76	129	29	0.004	ppbv	91
65] m,p-Xylene	18.68	106	613	0.144	ppbv	94
66] o-Xylene	19.15	106	208	0.054	ppbv	92
70] Benzyl chloride	20.95	91	73	0.011	ppbv	90
77] Naphthalene	23.86	128	196	0.027	ppbv	99

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080920.D  
 Acq On : 9 Aug 2023 11:29 pm  
 Operator : bat  
 Sample : 308147-07 1/5.1  
 Misc : T9  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

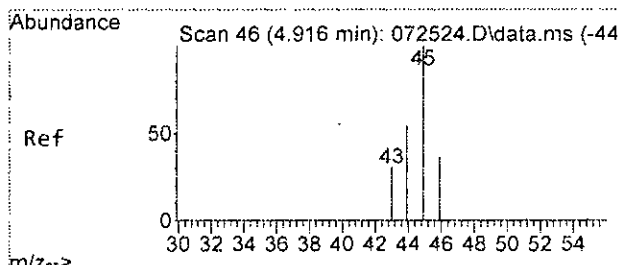
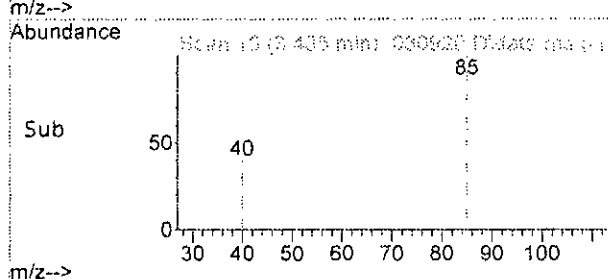
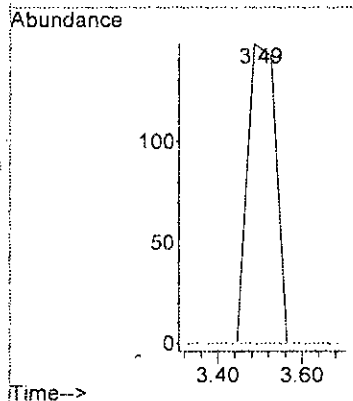
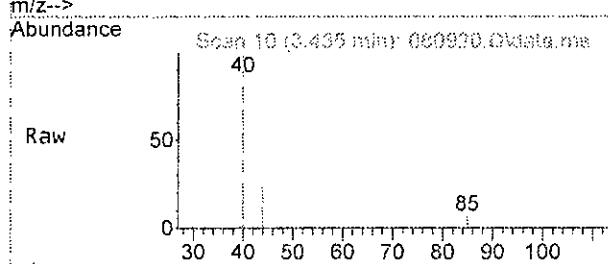
Quant Time: Aug 10 07:21:58 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M





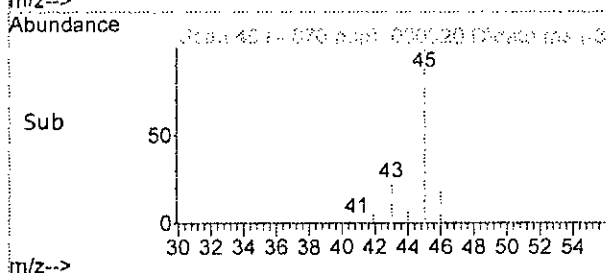
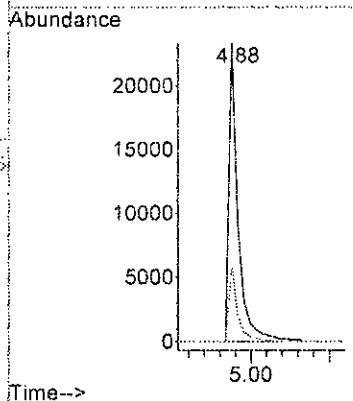
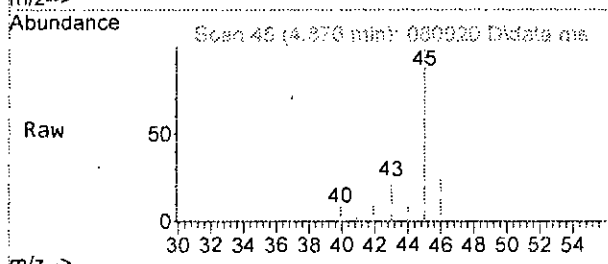
#3  
 Dichlorodifluoromethane  
 Concen: 0.069 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

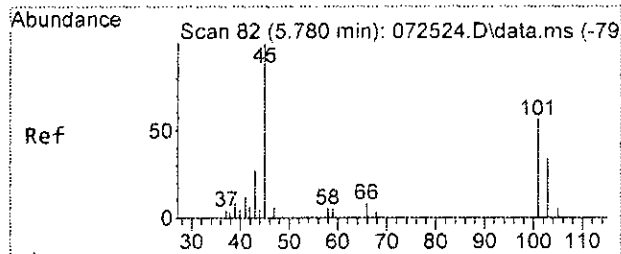
Tgt Ion: 85 Resp: 691  
 Ion Ratio Lower Upper  
 85 100  
 87 0.0 2.2 62.2#



#12  
 Ethanol  
 Concen: 72.138 ppbv  
 RT: 4.88 min Scan# 45  
 Delta R.T. -0.040 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

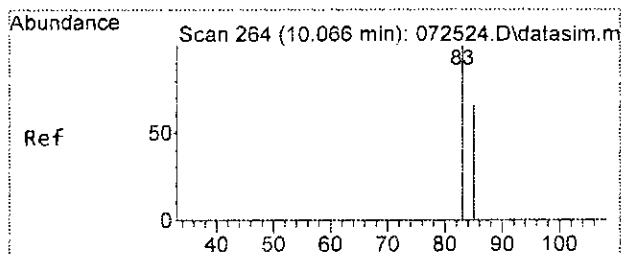
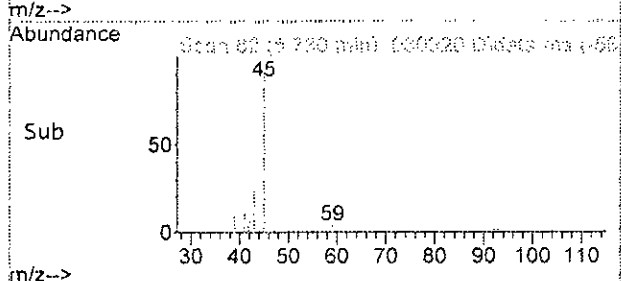
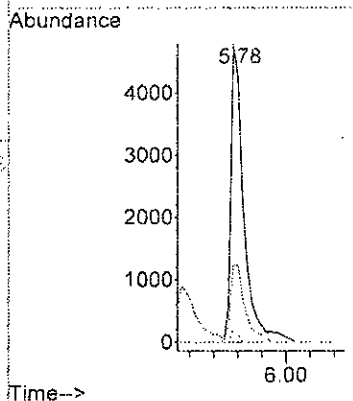
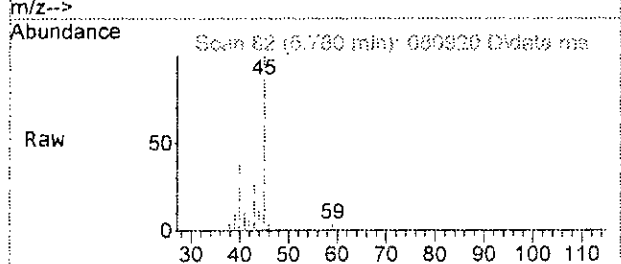
Tgt Ion: 45 Resp: 79385  
 Ion Ratio Lower Upper  
 45 100  
 46 31.2 0.0 55.5





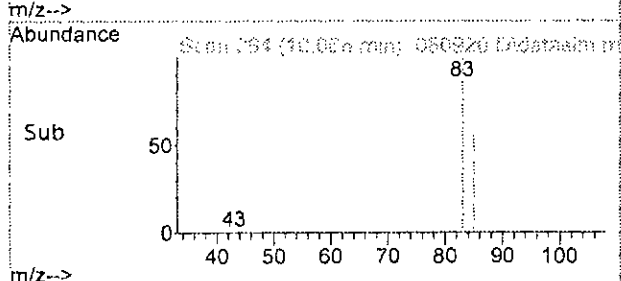
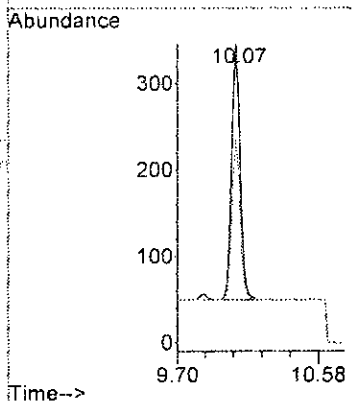
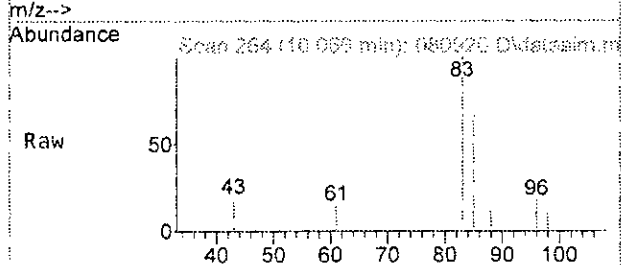
#17  
 2-Propanol  
 Concen: 3.486 ppbv  
 RT: 5.78 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

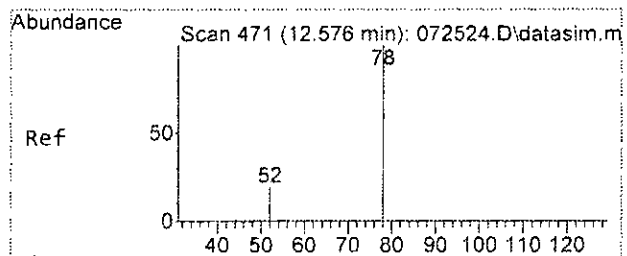
Tgt Ion	Resp	Lower	Upper
45	20683		
43	25.8	0.0	30.0
59	3.9	0.0	33.6



#30  
 Chloroform  
 Concen: 0.127 ppbv  
 RT: 10.07 min Scan# 264  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

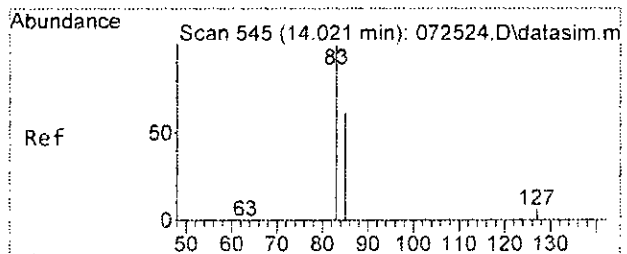
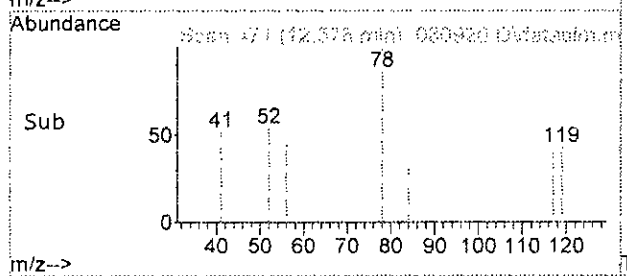
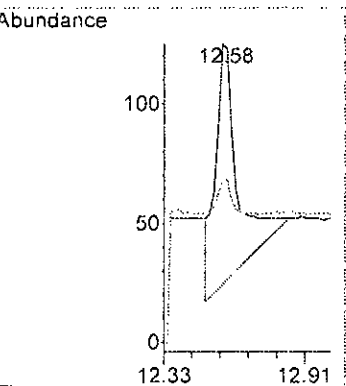
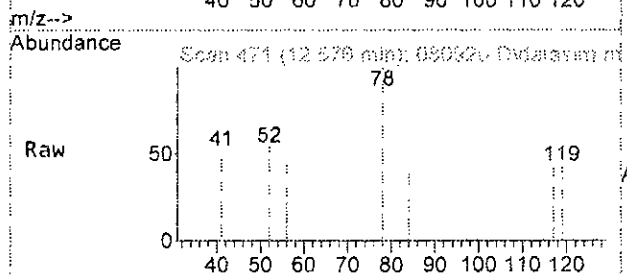
Tgt Ion	Resp	Lower	Upper
83	1079		
85	63.2	36.3	96.3





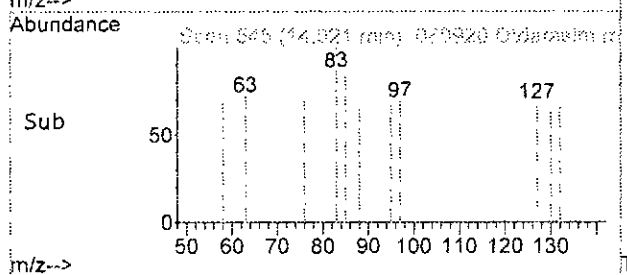
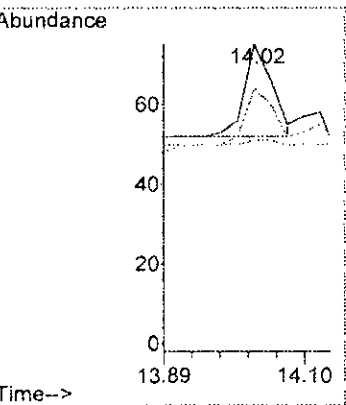
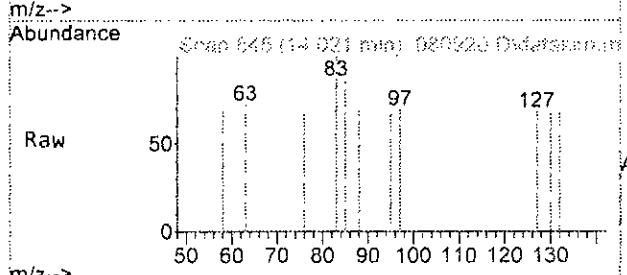
#37  
Benzene  
Concen: 0.055 ppbv  
RT: 12.58 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: 080920.D  
Acq: 9 Aug 2023 11:29 pm

Tgt Ion: 78 Resp: 627  
Ion Ratio Lower Upper  
78 100  
52 19.2 0.0 49.7

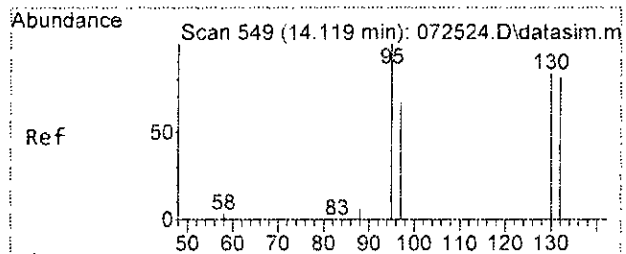


#45  
Bromodichloromethane  
Concen: 0.008 ppbv m  
RT: 14.02 min Scan# 545  
Delta R.T. -0.000 min  
Lab File: 080920.D  
Acq: 9 Aug 2023 11:29 pm

Tgt Ion: 83 Resp: 66  
Ion Ratio Lower Upper  
83 100  
85 85.3 31.0 91.0  
127 68.0 0.0 30.0#

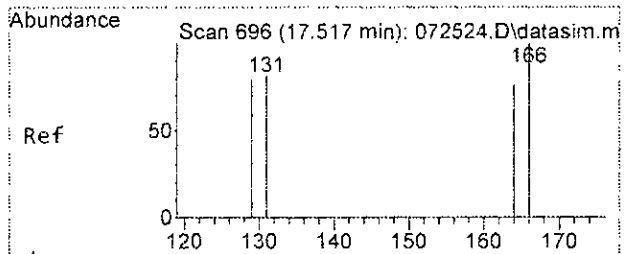
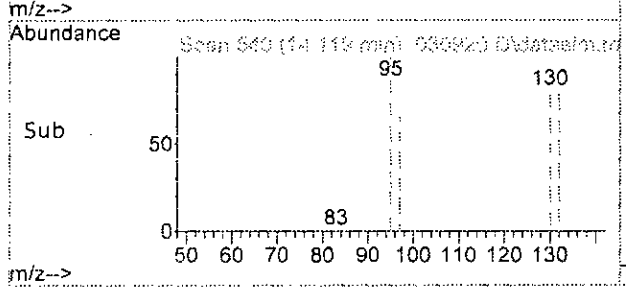
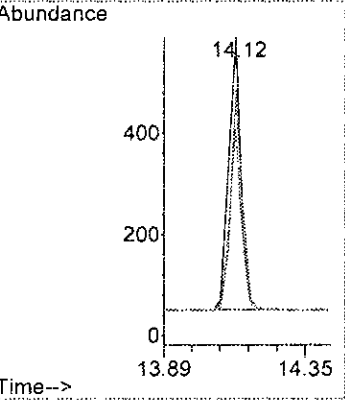
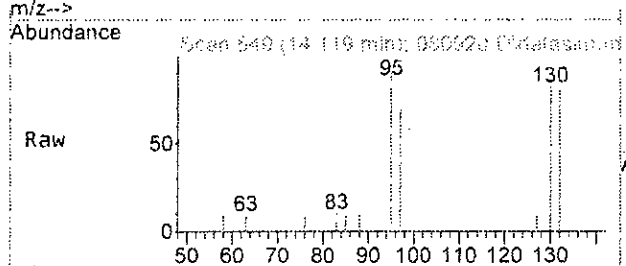






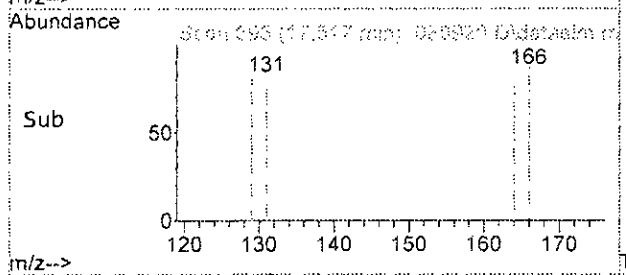
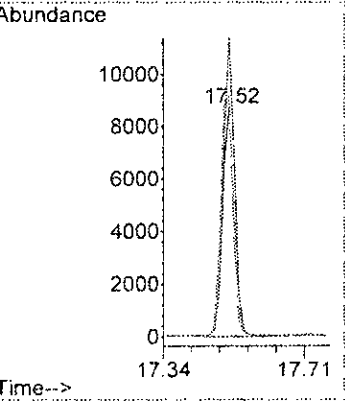
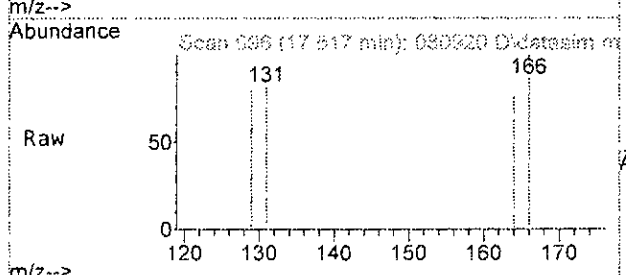
#46  
 Trichloroethene  
 Concen: 0.285 ppbv  
 RT: 14.12 min Scan# 549  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

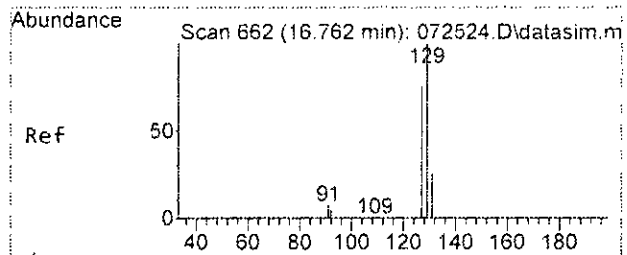
Tgt Ion	Resp	Lower	Upper
95	1474		
95	100		
97	66.3	37.1	97.1
130	80.6	56.1	116.1
132	78.4	54.3	114.3



#53  
 Tetrachloroethene  
 Concen: 4.993 ppbv  
 RT: 17.52 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

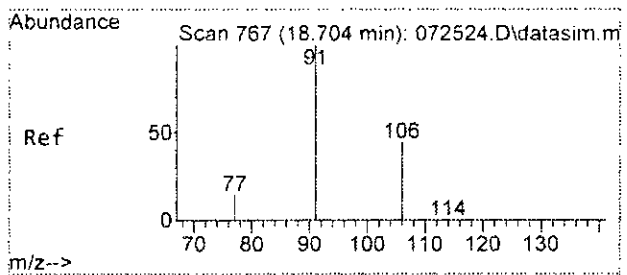
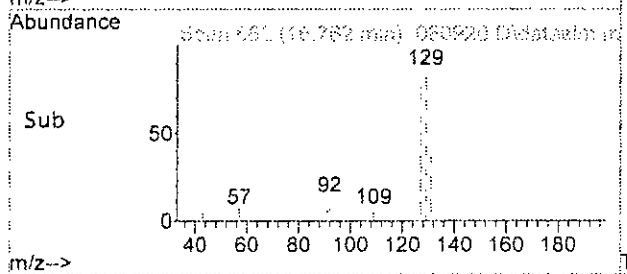
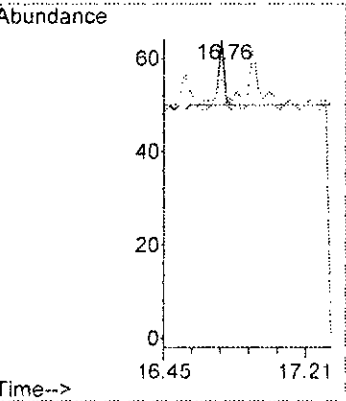
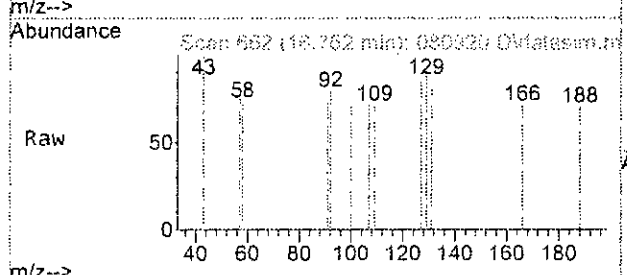
Tgt Ion	Resp	Lower	Upper
164	18092		
164	100		
129	104.6	63.2	123.2
131	107.3	70.7	130.7
166	130.6	107.5	167.5





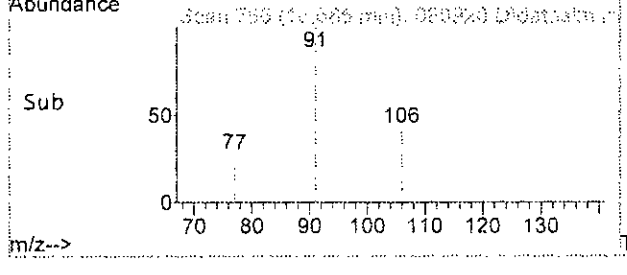
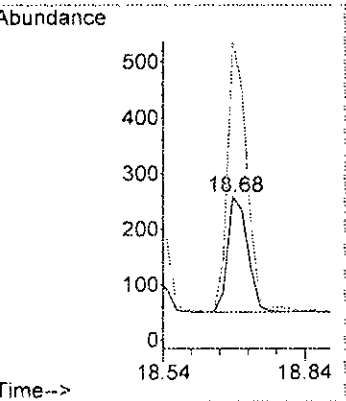
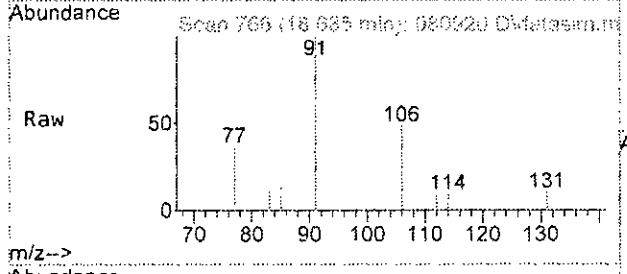
#54  
 Dibromochloromethane  
 Concen: 0.004 ppbv  
 RT: 16.76 min Scan# 662  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

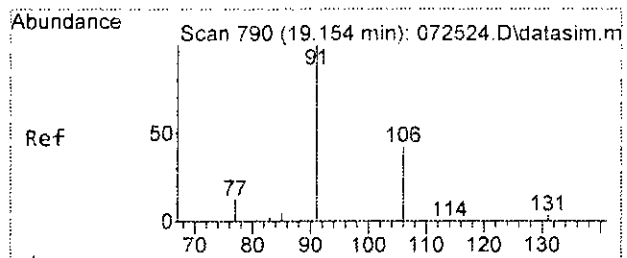
Tgt Ion	Resp	Lower	Upper
129	100		
127	85.7	51.9	111.9
131	35.7	0.0	52.3



#65  
 m,p-Xylene  
 Concen: 0.144 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

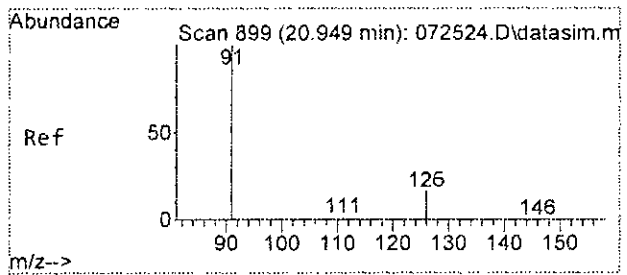
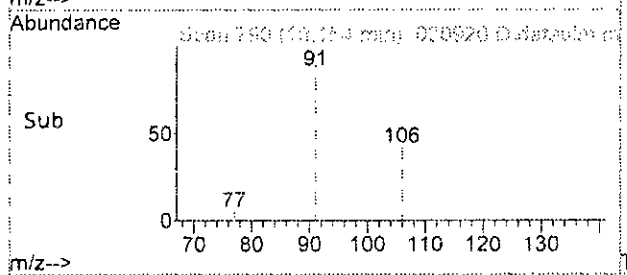
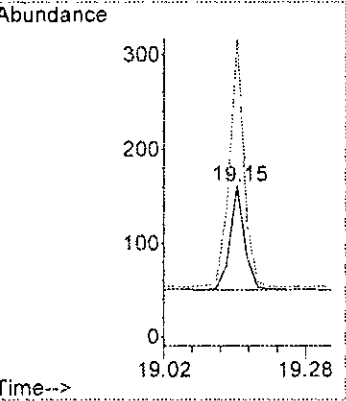
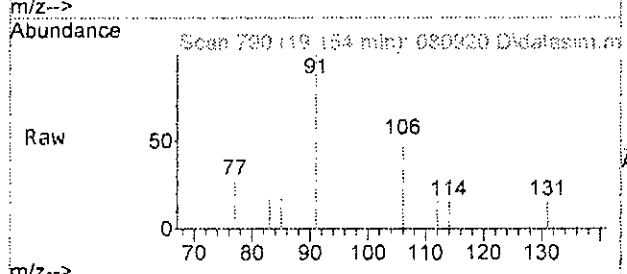
Tgt Ion	Resp	Lower	Upper
106	100		
91	232.2	193.0	253.0





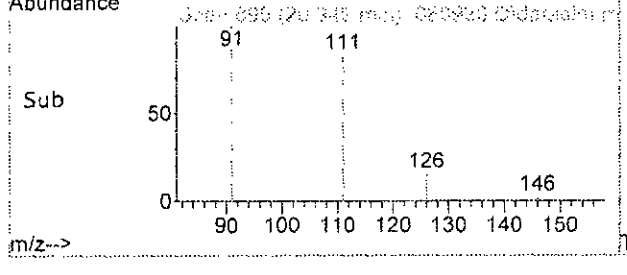
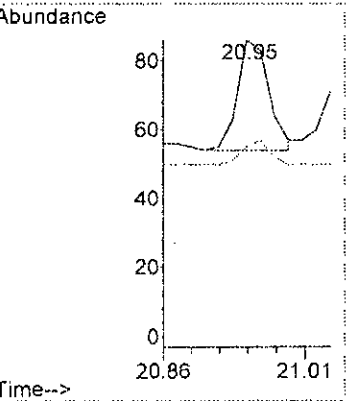
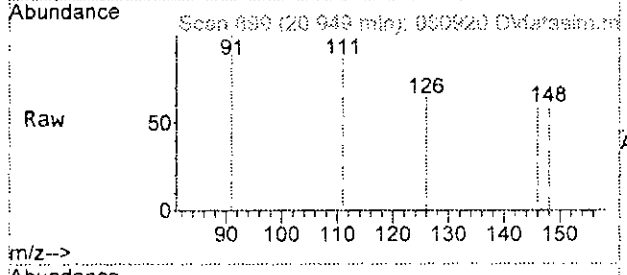
#66  
 o-Xylene  
 Concen: 0.054 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

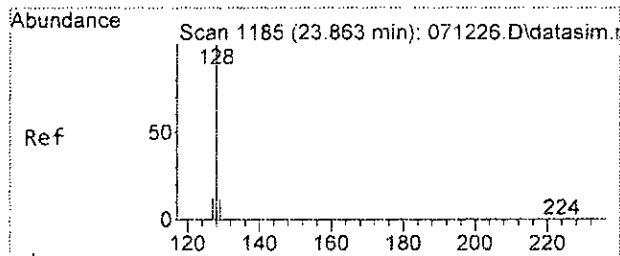
Tgt Ion: 106 Resp: 208  
 Ion Ratio Lower Upper  
 106 100  
 91 237.8 194.4 254.4



#70  
 Benzyl chloride  
 Concen: 0.011 ppbv  
 RT: 20.95 min Scan# 899  
 Delta R.T. 0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

Tgt Ion: 91 Resp: 73  
 Ion Ratio Lower Upper  
 91 100  
 126 15.6 0.0 50.0

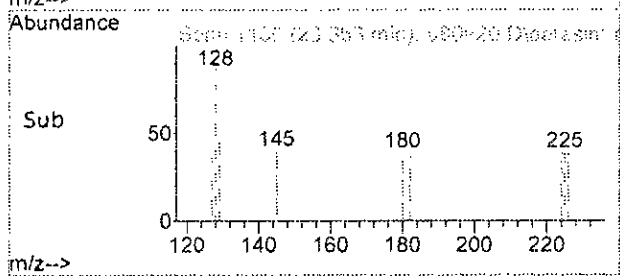
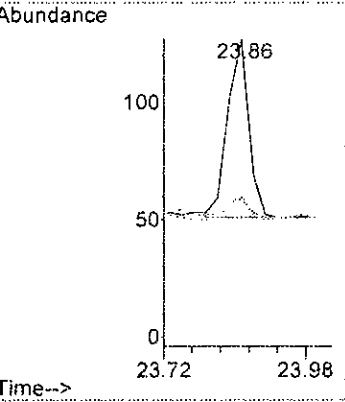
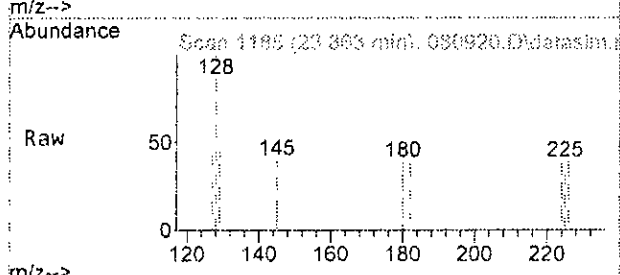




#77  
 Naphthalene  
 Concen: 0.027 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080920.D  
 Acq: 9 Aug 2023 11:29 pm

Tgt Ion: 128 Resp: 196

Ion	Ratio	Lower	Upper
128	100		
129	10.5	0.0	41.0
127	13.2	0.0	43.2



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080920.D  
 Acq On : 9 Aug 2023 11:29 pm  
 Operator : bat  
 Sample : 308147-07 1/5.1  
 Misc : T9  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:58 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	20248	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	80455	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	70089	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	49220	9.477	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.80%
Target Compounds						
					Qvalue	
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	3.49	85	691	0.069	ppbv #	42
4) Chloromethane	3.73	50	238	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	4.05	62	26	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	0.00		0	N.D.		
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.88	45	79385	72.138	ppbv	89
13) Acrolein	0.00		0	N.D.		
14) Pentane	0.00		0	N.D.		
15) Trichlorofluoromethane	5.82	101	126	N.D.		
16) Acetone	5.58	58	1124	N.D.		
17) 2-Propanol	5.78	45	20683	3.486	ppbv	99
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	8.07	96	22	N.D.		
20) Methylene chloride	6.75	84	177	N.D.		
21) t-Butyl alcohol (TBA)	6.59	59	204	N.D.		
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	7.25	76	158	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	0.00		0	N.D.		
27) 1,1-Dichloroethane	8.33	63	30	N.D.		
28) cis-1,2-Dichloroethene	9.62	96	95	N.D.		
29) Hexane	0.00		0	N.D.		
30] Chloroform	10.07	83	1079	0.127	ppbv	96
31) Ethyl acetate	0.00		0	N.D.		
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.		
35) 1,1,1-Trichloroethane	11.54	97	171	N.D.		
36) Carbon tetrachloride	12.83	117	139	N.D.		
37] Benzene	12.58	78	627	0.055	ppbv	99
38) Cyclohexane	0.00		0	N.D.		
40) 1,2-Dichloropropane	13.77	63	56	N.D.		

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080920.D  
 Acq On : 9 Aug 2023 11:29 pm  
 Operator : bat  
 Sample : 308147-07 1/5.1  
 Misc : T9  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

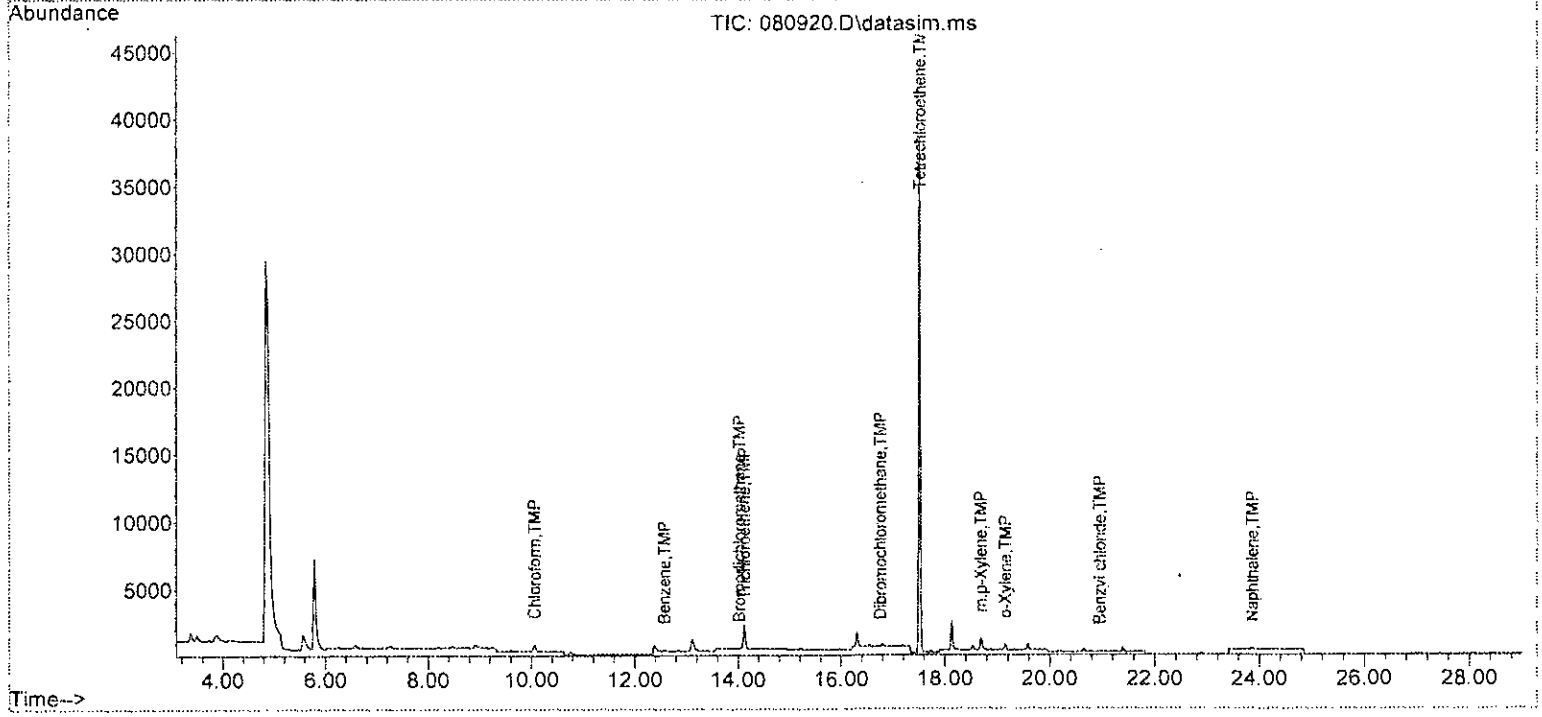
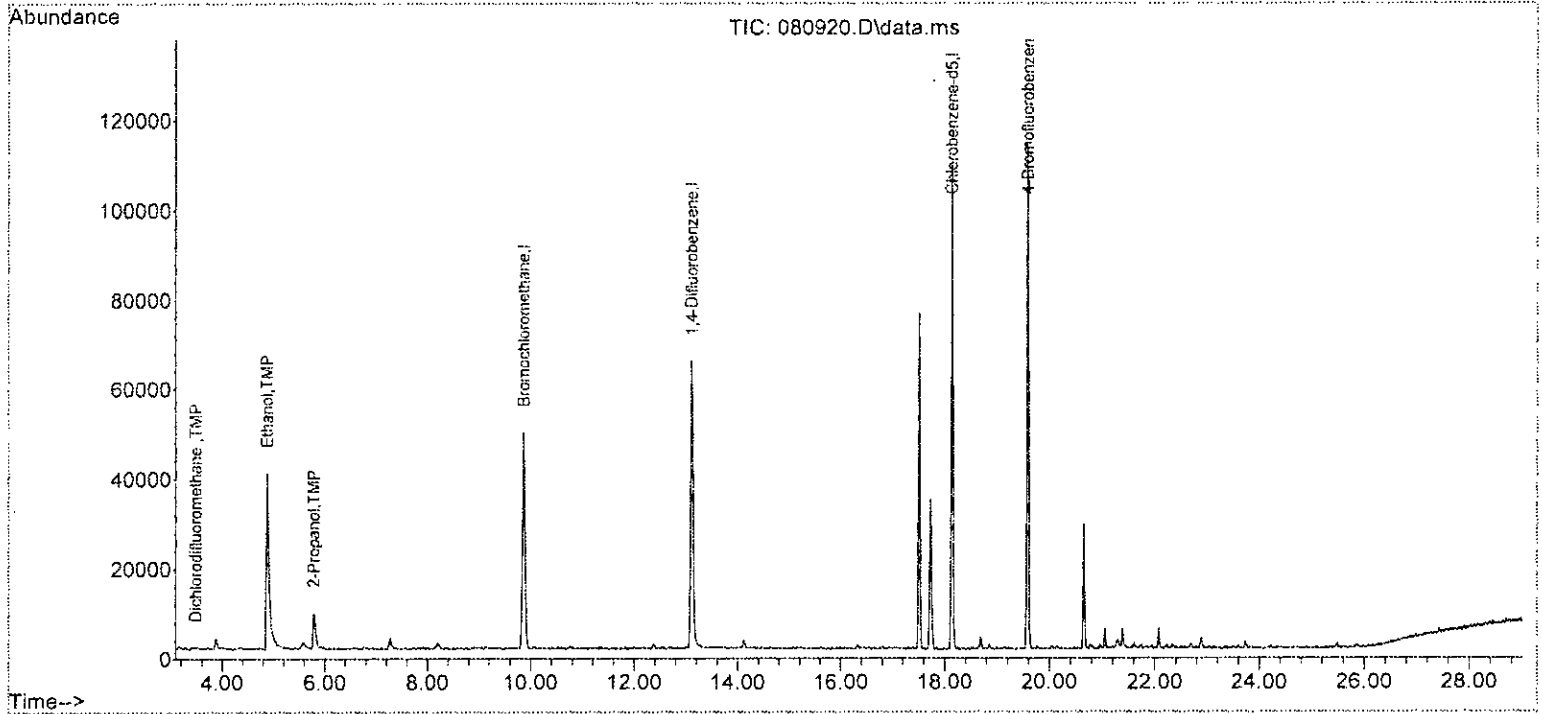
Quant Time: Aug 10 07:21:58 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	14.14	88	22	N.D.		
42) 2,2,4-Trimethylpentane	0.00		0	N.D.		
43) Methyl methacrylate	0.00		0	N.D.		
44) Heptane	0.00		0	N.D.		
45] Bromodichloromethane	14.02	83	66m	0.008	ppbv	
46] Trichloroethene	14.12	95	1474	0.285	ppbv	95
47) cis-1,3-Dichloropropene	0.00		0	N.D.		
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49) trans-1,3-Dichloropropene	0.00		0	N.D.		
50) Toluene	16.31	92	1814	N.D.		
51) 1,1,2-Trichloroethane	0.00		0	N.D.		
52) 2-Hexanone	0.00		0	N.D.		
53] Tetrachloroethene	17.52	164	18092	4.993	ppbv	92
54] Dibromochloromethane	16.76	129	29	0.004	ppbv	91
55) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
57) Chlorobenzene	0.00		0	N.D.		
58) Ethylbenzene	18.53	91	459	N.D.		
59) 1,1,2,2-Tetrachloroethane	19.13	83	54	N.D.		
60) Nonane	18.99	43	194	N.D.		
61) Isopropylbenzene	20.04	105	253	N.D.		
62) 2-Chlorotoluene	0.00		0	N.D.		
63) Propylbenzene	0.00		0	N.D.		
64) 4-Ethyltoluene	20.29	105	103	N.D.		
65] m,p-Xylene	18.68	106	613	0.144	ppbv	94
66] o-Xylene	19.15	106	208	0.054	ppbv	92
67) Styrene	0.00		0	N.D.		
68) Bromoform	0.00		0	N.D.		
70] Benzyl chloride	20.95	91	73	0.011	ppbv	90
71) 1,3,5-Trimethylbenzene	20.29	105	103	N.D.		
72) 1,2,4-Trimethylbenzene	20.81	105	320	N.D.		
73) 1,3-Dichlorobenzene	20.99	146	39	N.D.		
74) 1,4-Dichlorobenzene	21.05	146	57	N.D.		
75) 1,2-Dichlorobenzene	21.41	146	41	N.D.		
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
77] Naphthalene	23.86	128	196	0.027	ppbv	99
78) Hexachlorobutadiene	0.00		0	N.D.		

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080920.D  
 Acq On : 9 Aug 2023 11:29 pm  
 Operator : bat  
 Sample : 308147-07 1/5.1  
 Misc : T9  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

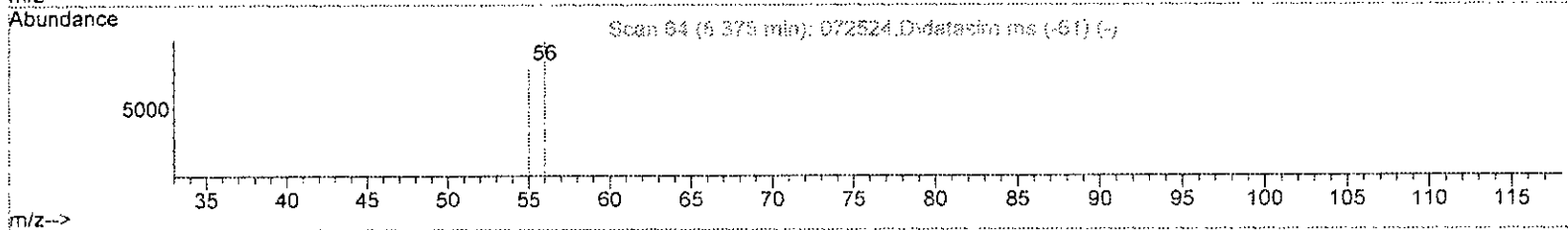
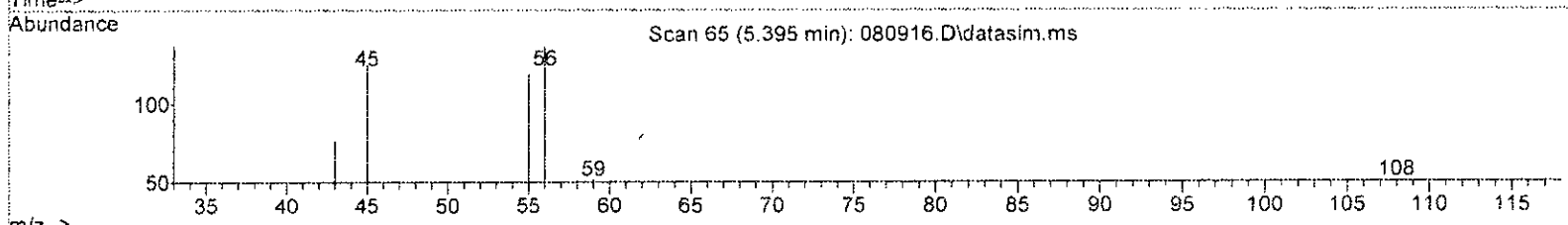
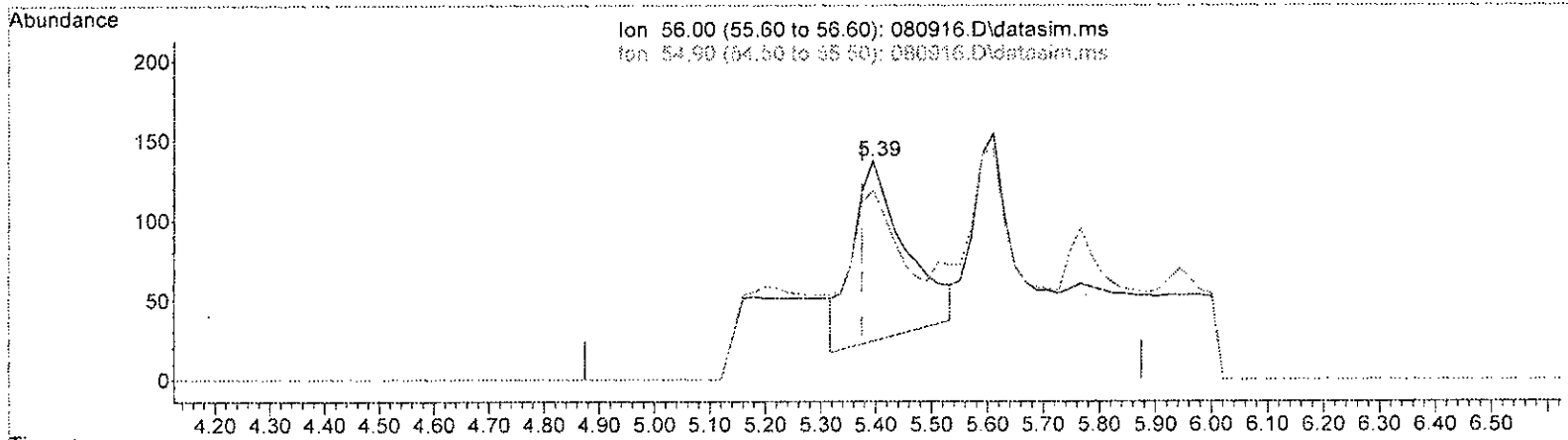
Quant Time: Aug 10 07:21:58 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080916.D\data.ms

(13) Acrolein (TMP)		
5.395min (+ 0.020)	0.529 ppbv	
response	742	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	78.71
0.00	0.00	0.00
0.00	0.00	0.00

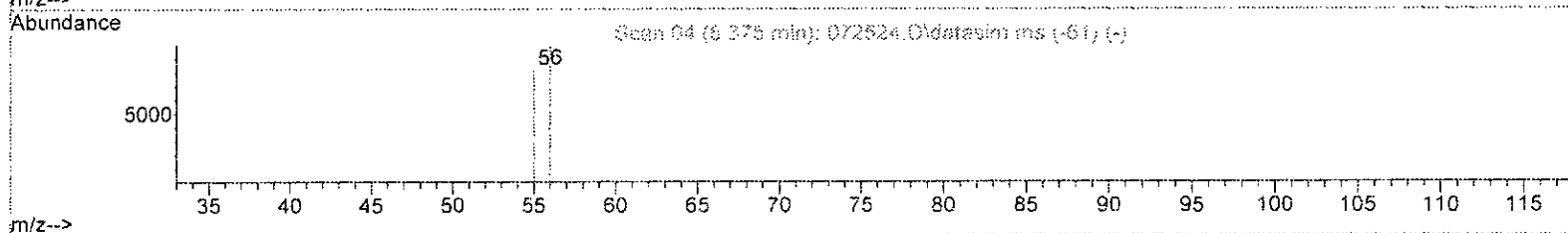
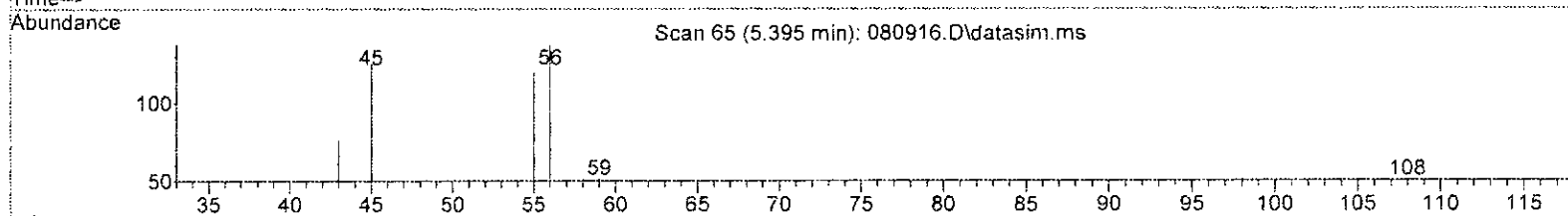
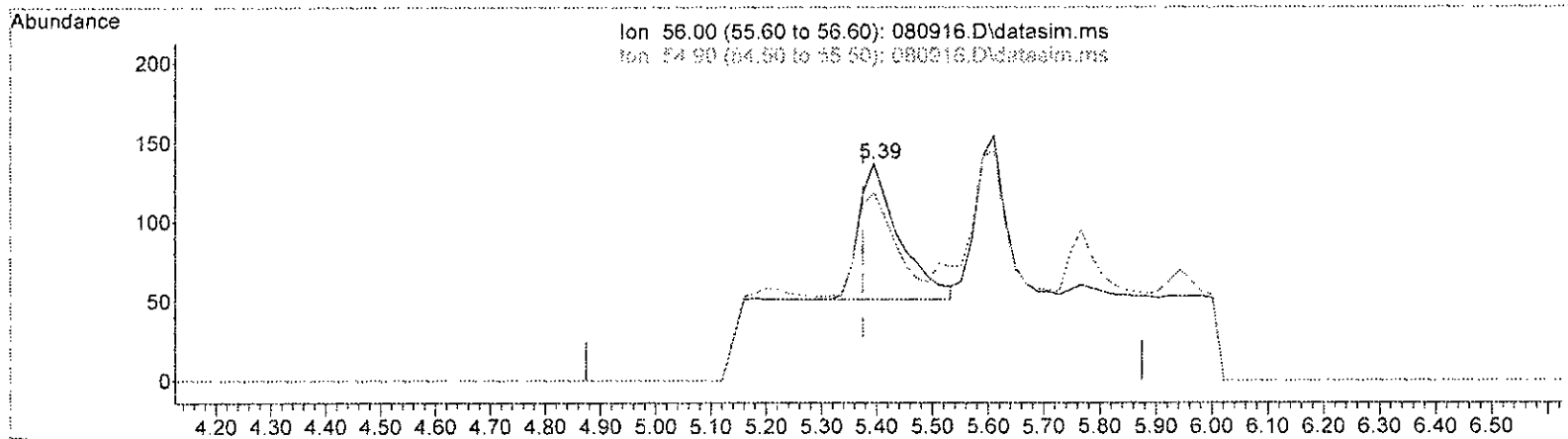
*MO 8/10/23*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 080916.D\data.ms

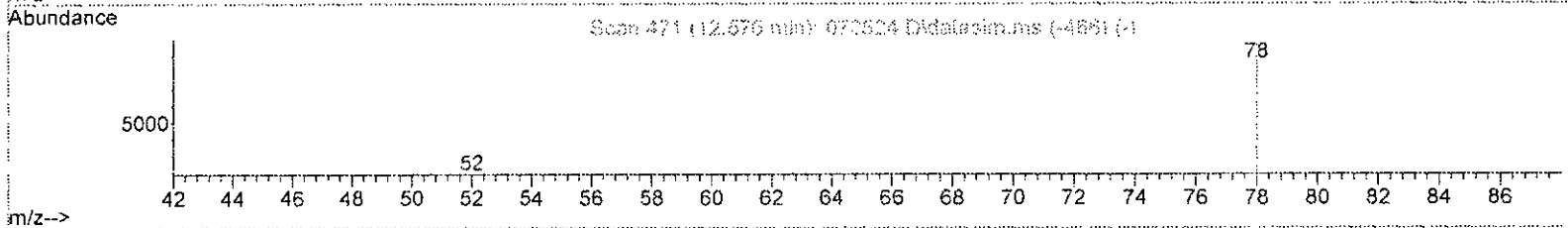
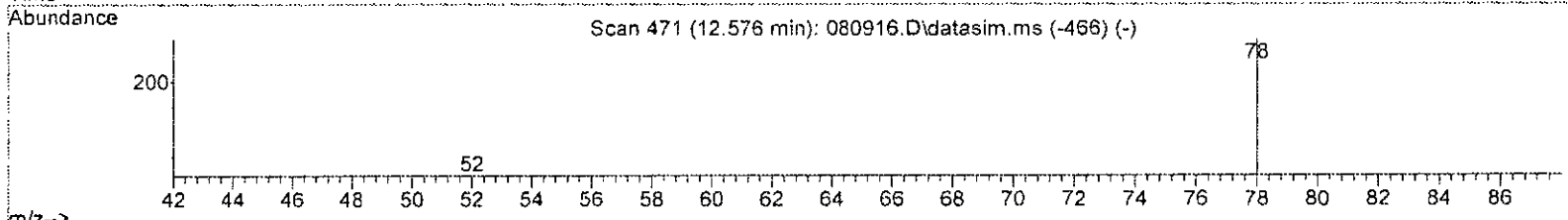
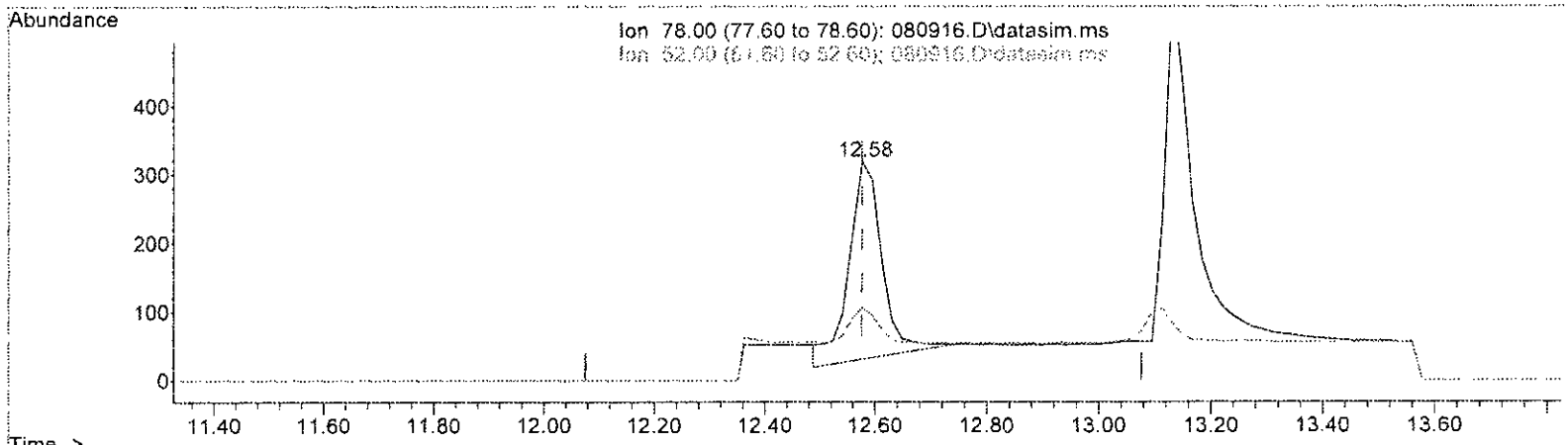
(13) Acrolein (TMP)		
5.395min (+ 0.020)	0.308 ppbv m	
response	432	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	135.19#
0.00	0.00	0.00
0.00	0.00	0.00

*NO 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-1S SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080916.D\data.ms

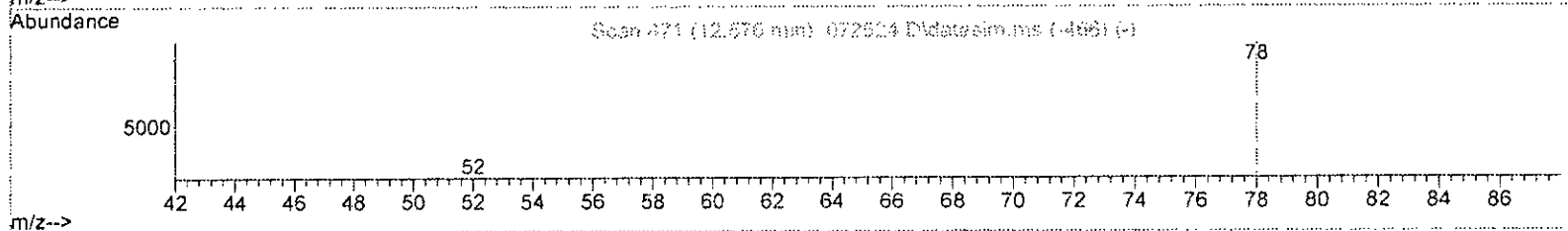
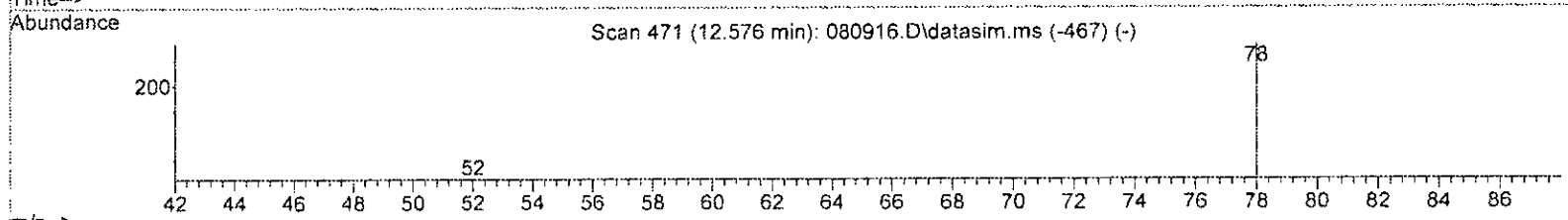
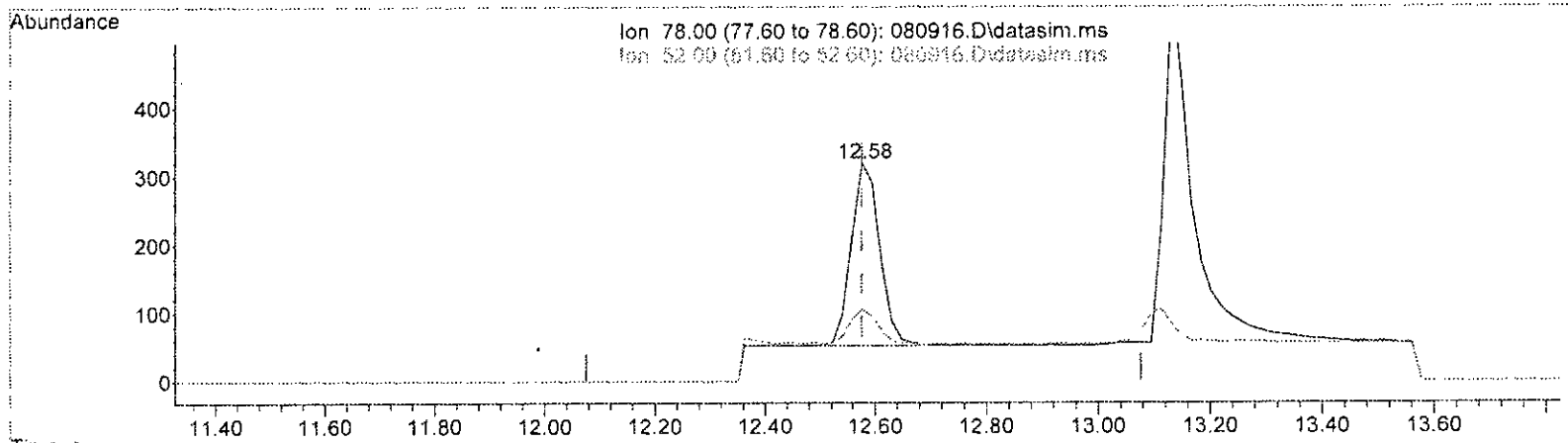
(37) Benzene (TMP)		
12.576min (+ 0.000)	0.111 ppbv	
response	1201	
Ion	Exp%	Act%
78.00	100.00	100.00
52.00	19.70	19.48
0.00	0.00	0.00
0.00	0.00	0.00

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080916.D\data.ms

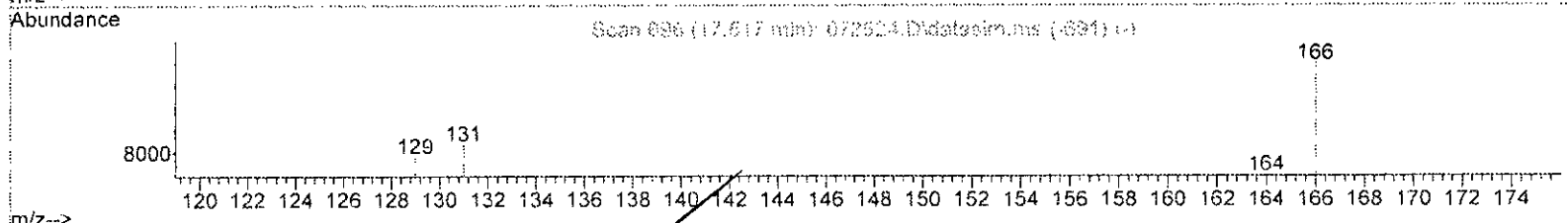
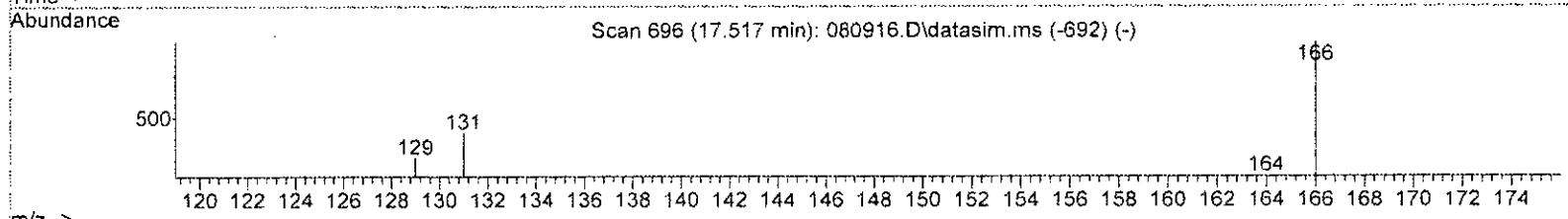
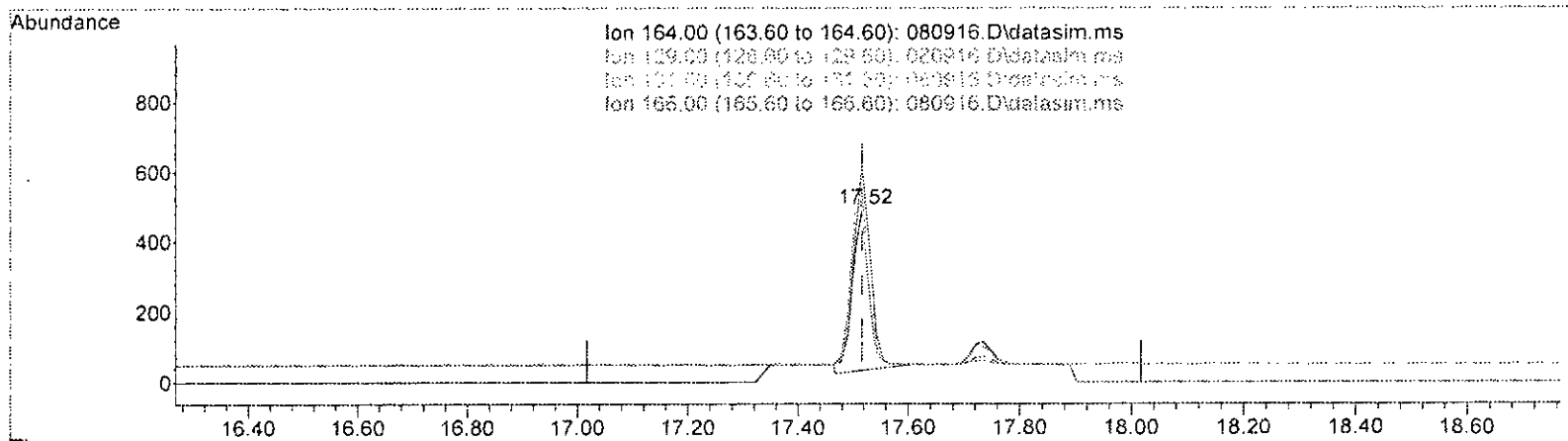
(37) Benzene (TMP)			
Time	Response	Exp%	Act%
12.576min (+ 0.000)	950	0.088	ppbv m
Ion	Exp%	Act%	
78.00	100.00	100.00	
52.00	19.70	33.23	
0.00	0.00	0.00	
0.00	0.00	0.00	

*MD 8/10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080916.D\data.ms

(53) Tetrachloroethene (TCE)

17.517min (+ 0.000) 0.278 ppbv

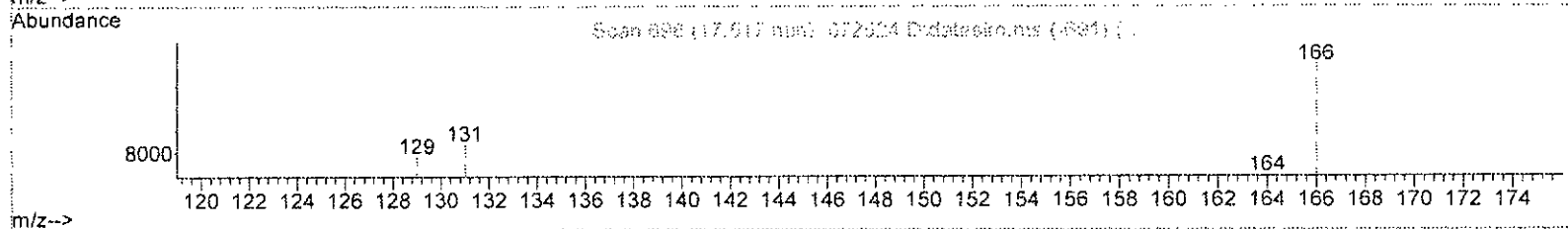
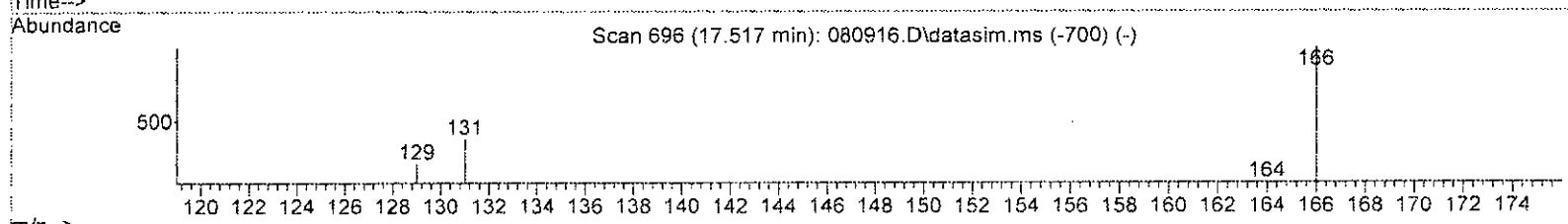
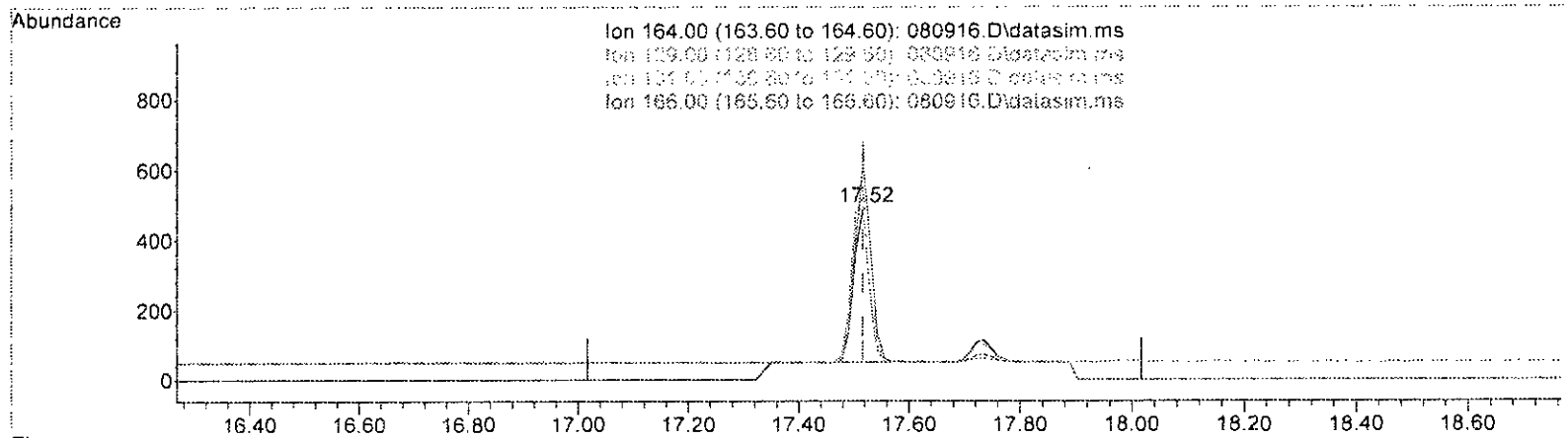
response	Exp%	Act%
987		
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	104.05
131.00	100.70	109.23
166.00	137.50	128.83

*MD @ 10/23*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 080916.D\data.ms

(53) Tetrachloroethene (TMP)

17.517min (+ 0.000) 0.247 ppbv m

response	876	
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	103.64
131.00	100.70	108.50
166.00	137.50	125.91

MJD 01/10/23

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

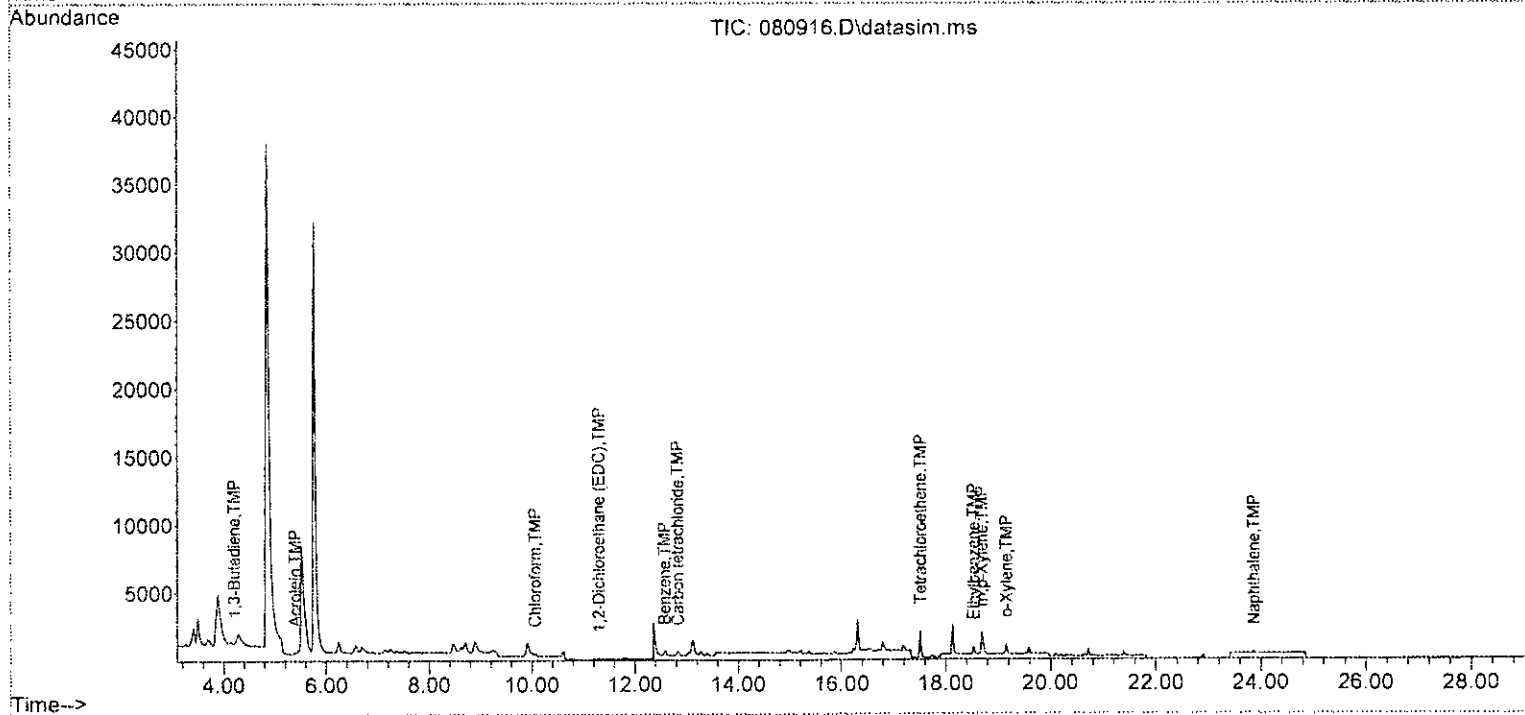
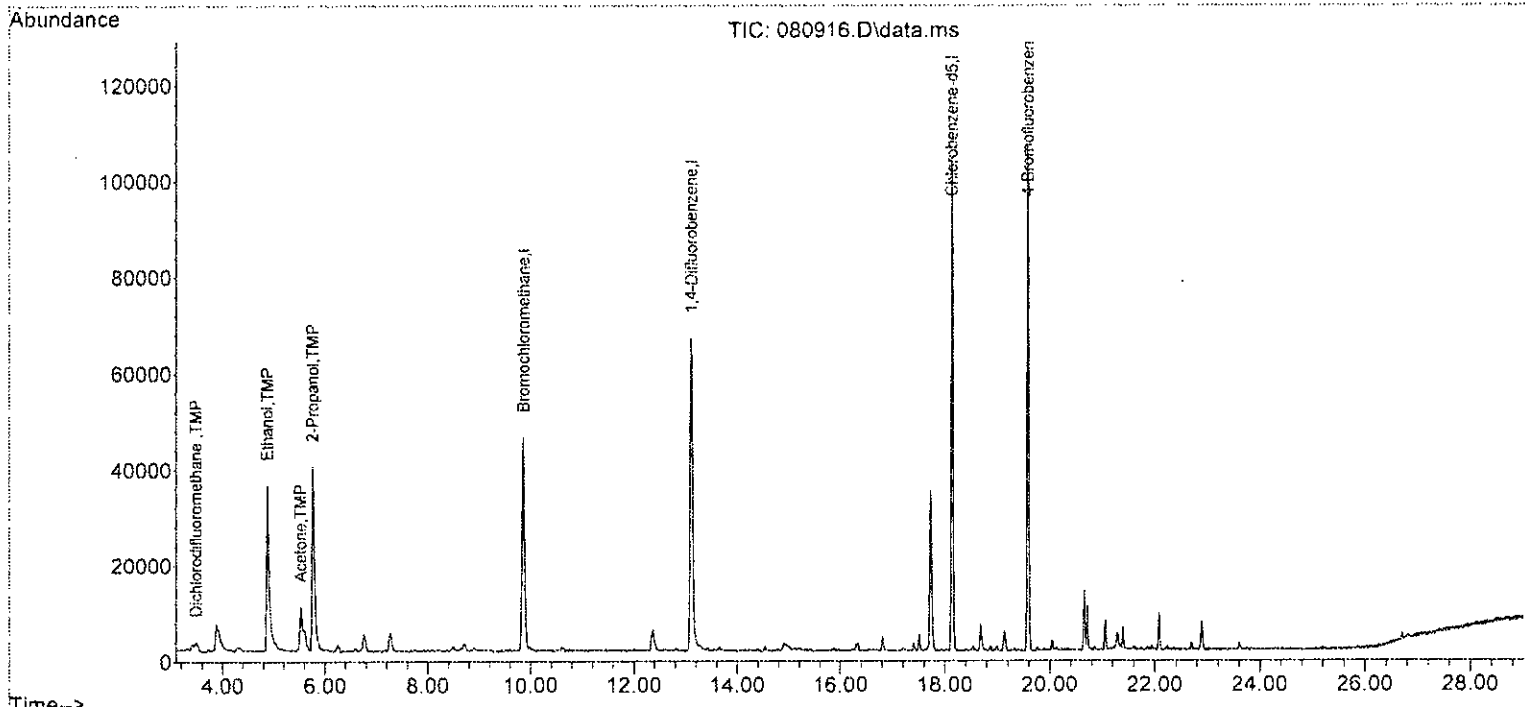
Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

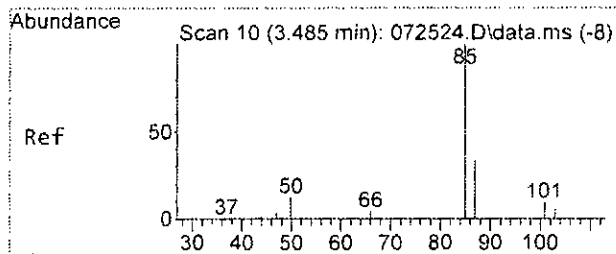
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Bromochloromethane	9.86	128	19231	10.000	ppbv	0.00	
39) 1,4-Difluorobenzene	13.11	114	78754	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	68376	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	47352	9.346	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	93.50%	
Target Compounds							
							Qvalue
3) Dichlorodifluoromethane	3.49	85	4325	0.457	ppbv		92
7] 1,3-Butadiene	4.21	54	88	0.037	ppbv #		1
12) Ethanol	4.88	45	68571	65.607	ppbv		90
13] Acrolein	5.39	56	432m	0.308	ppbv		
16) Acetone	5.53	58	7268	5.637	ppbv		89
17) 2-Propanol	5.76	45	88838	15.766	ppbv		99
30] Chloroform	10.07	83	396	0.049	ppbv		100
34] 1,2-Dichloroethane (EDC)	11.30	62	66	0.012	ppbv		86
36] Carbon tetrachloride	12.83	117	478	0.070	ppbv		96
37] Benzene	12.58	78	950m	0.088	ppbv		
53] Tetrachloroethene	17.52	164	876m	0.247	ppbv		
58] Ethylbenzene	18.53	91	850	0.069	ppbv		99
65] m,p-Xylene	18.68	106	1088	0.262	ppbv		93
66] o-Xylene	19.15	106	351	0.093	ppbv		94
77] Naphthalene	23.86	128	248	0.035	ppbv		98

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

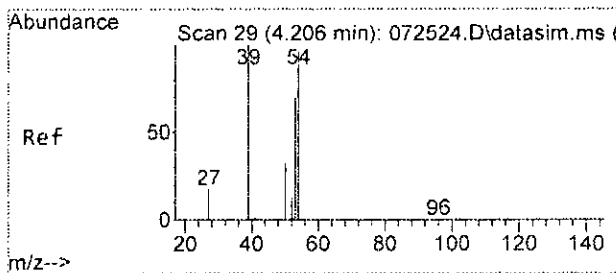
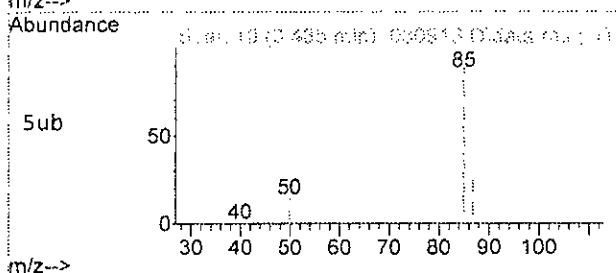
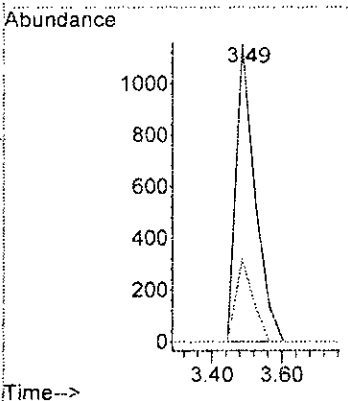
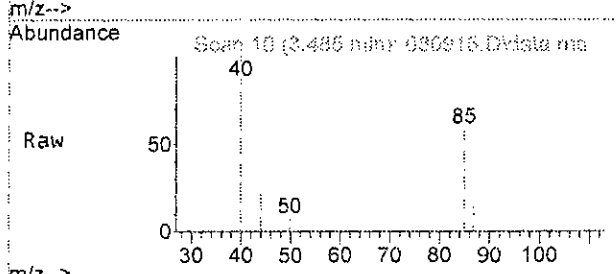
Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M





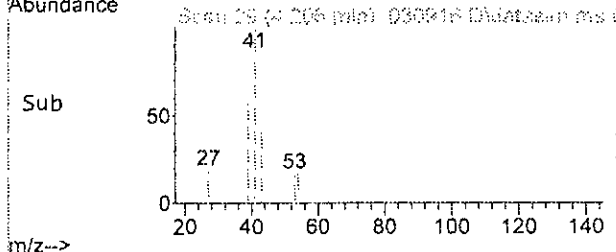
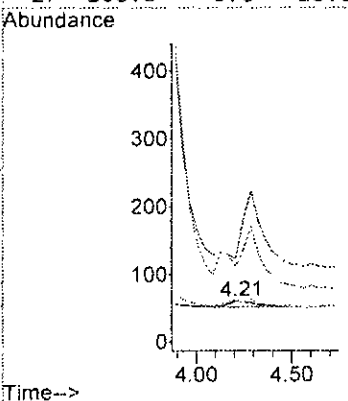
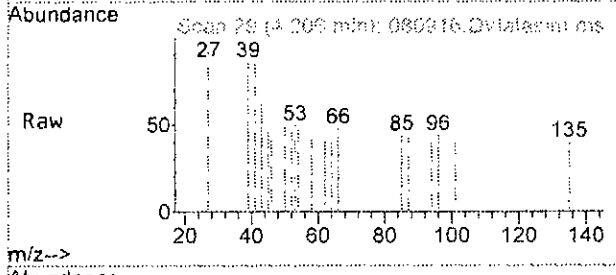
#3  
 Dichlorodifluoromethane  
 Concen: 0.457 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

Tgt Ion: 85 Resp: 4325  
 Ion Ratio Lower Upper  
 85 100  
 87 27.5 2.2 62.2

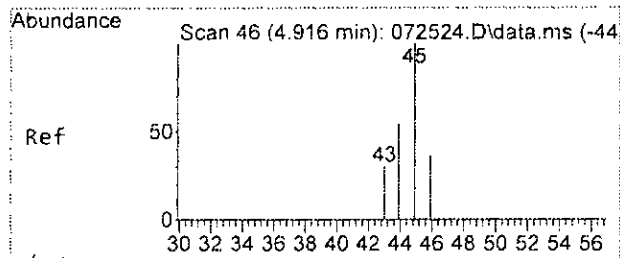


#7  
 1,3-Butadiene  
 Concen: 0.037 ppbv  
 RT: 4.21 min Scan# 29  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

Tgt Ion: 54 Resp: 88  
 Ion Ratio Lower Upper  
 54 100  
 39 322.2 97.6 157.6#  
 53 100.0 42.4 102.4  
 27 100.0 0.0 20.0#

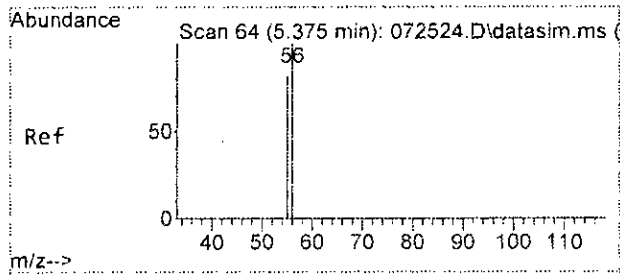
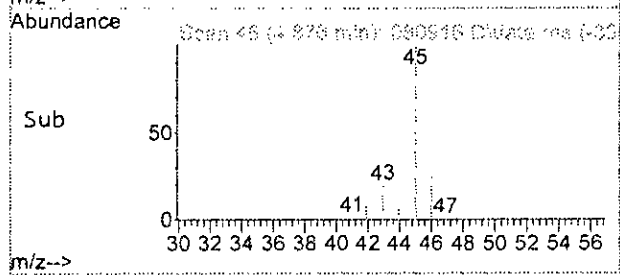
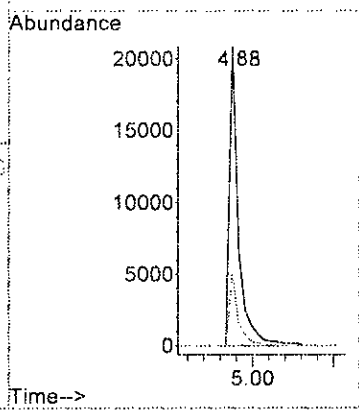
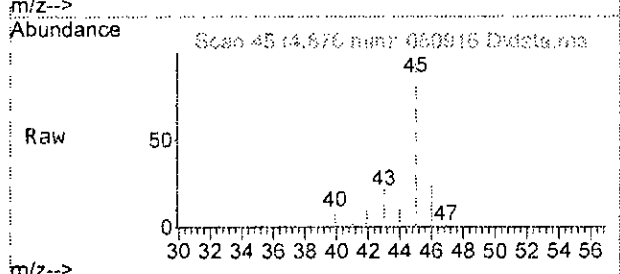






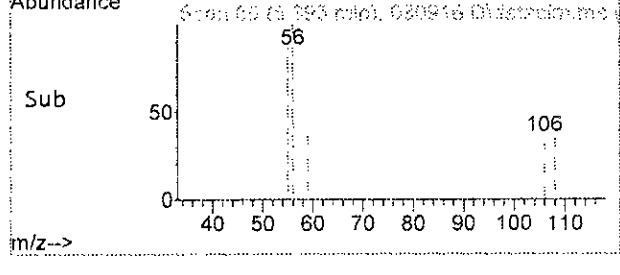
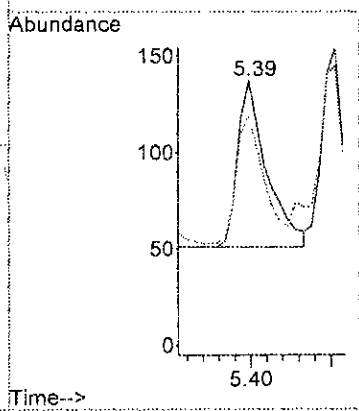
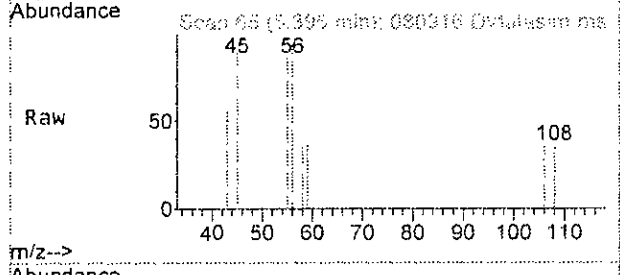
#12  
 Ethanol  
 Concen: 65.607 ppbv  
 RT: 4.88 min Scan# 45  
 Delta R.T. -0.040 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

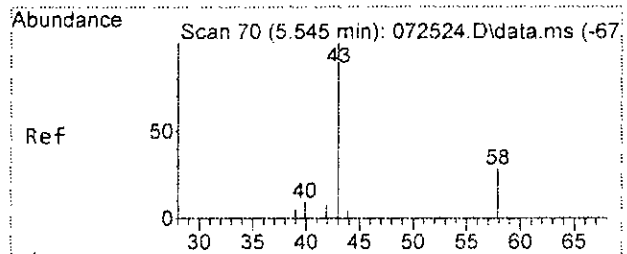
Tgt Ion	Resp	Lower	Upper
45	100		
46	30.5	0.0	55.5



#13  
 Acrolein  
 Concen: 0.308 ppbv m  
 RT: 5.39 min Scan# 65  
 Delta R.T. 0.020 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

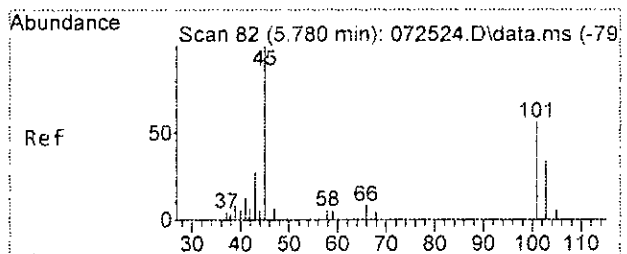
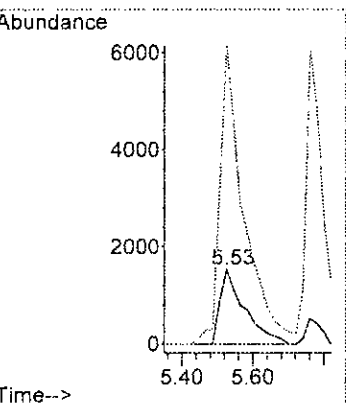
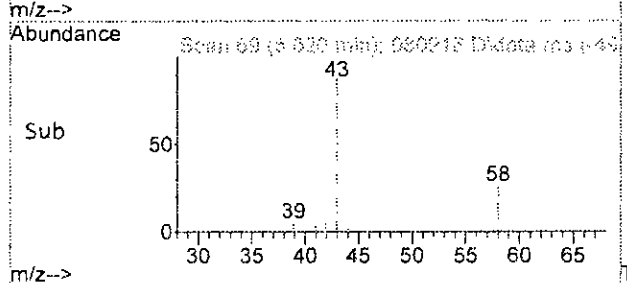
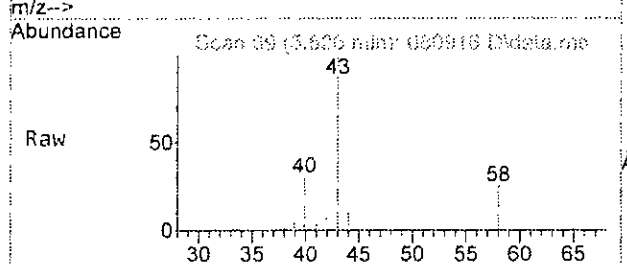
Tgt Ion	Resp	Lower	Upper
56	100		
55	135.2	51.0	111.0#





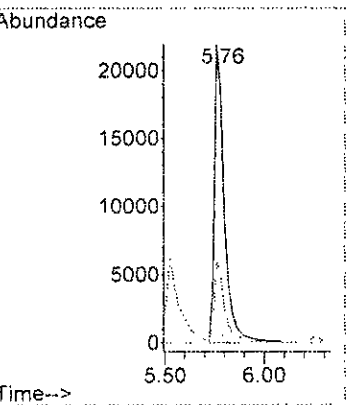
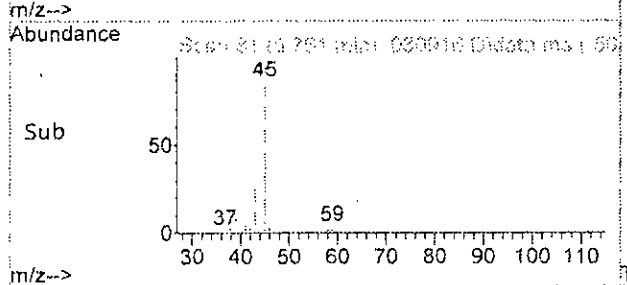
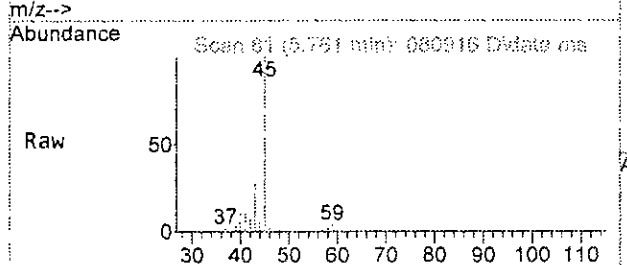
#16  
 Acetone  
 Concen: 5.637 ppbv  
 RT: 5.53 min Scan# 69  
 Delta R.T. -0.019 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

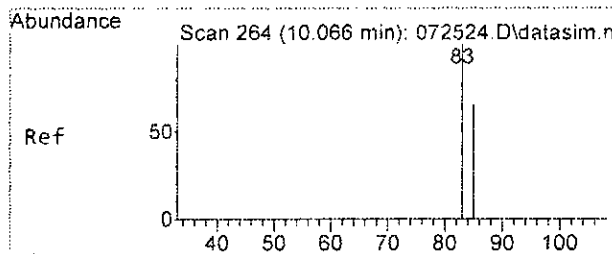
Tgt Ion: 58 Resp: 7268  
 Ion Ratio Lower Upper  
 58 100  
 43 384.7 329.3 389.3



#17  
 2-Propanol  
 Concen: 15.766 ppbv  
 RT: 5.76 min Scan# 81  
 Delta R.T. -0.019 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

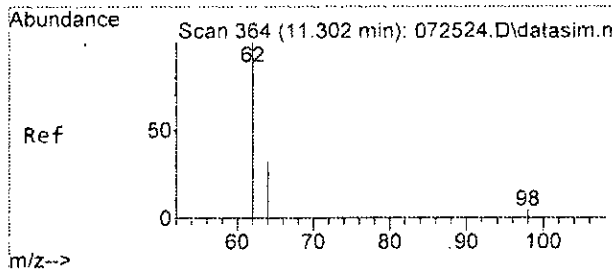
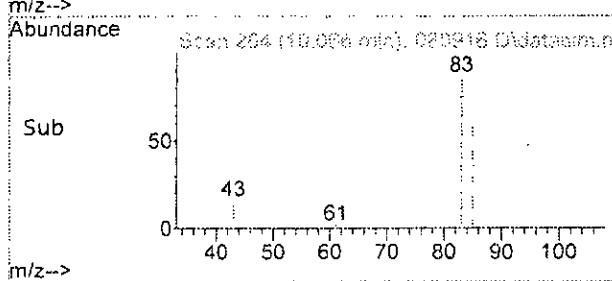
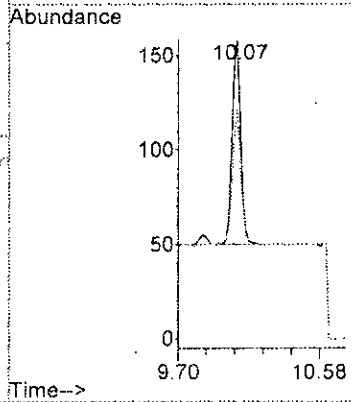
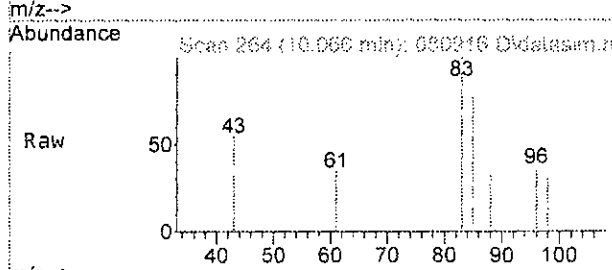
Tgt Ion: 45 Resp: 88838  
 Ion Ratio Lower Upper  
 45 100  
 43 27.4 0.0 30.0  
 59 3.8 0.0 33.6





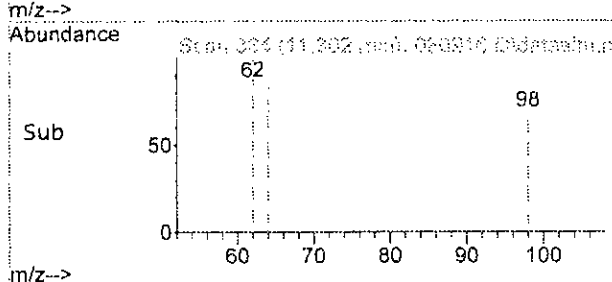
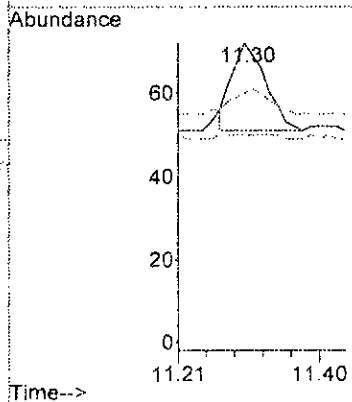
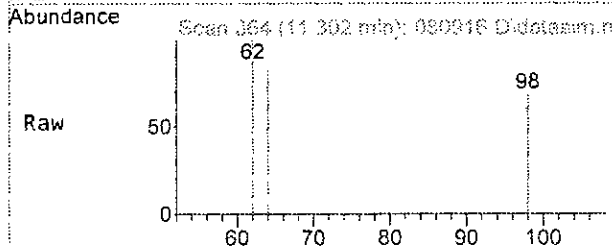
#30  
 Chloroform  
 Concen: 0.049 ppbv  
 RT: 10.07 min Scan# 264  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

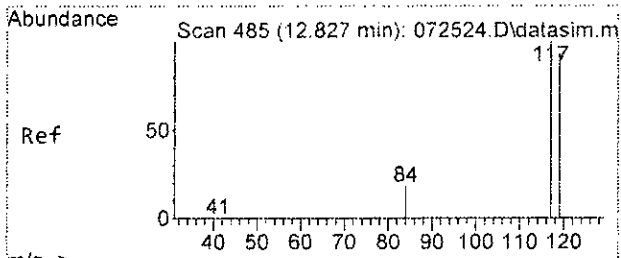
Tgt Ion: 83 Resp: 396  
 Ion Ratio Lower Upper  
 83 100  
 85 66.7 36.3 96.3



#34  
 1,2-Dichloroethane (EDC)  
 Concen: 0.012 ppbv  
 RT: 11.30 min Scan# 364  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

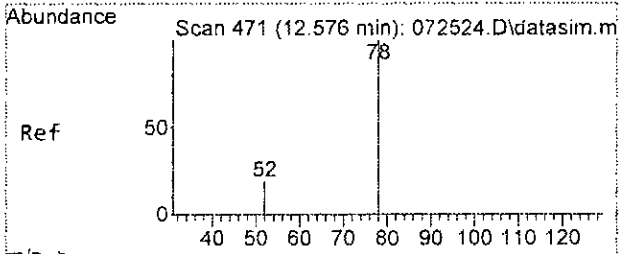
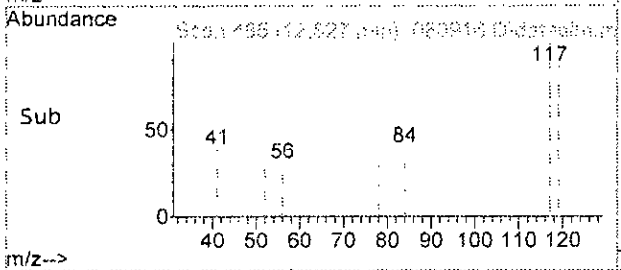
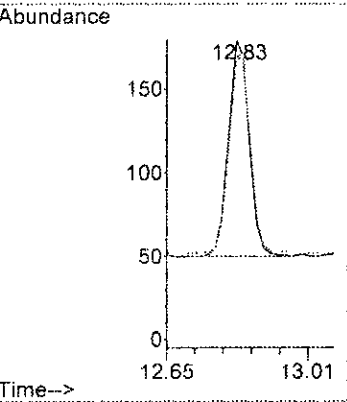
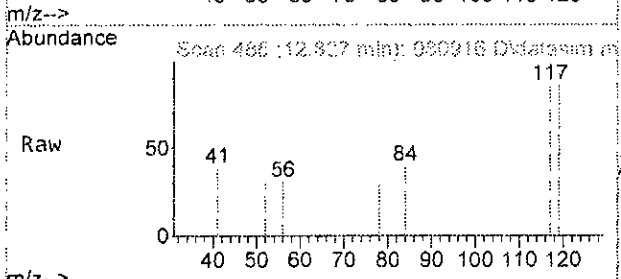
Tgt Ion: 62 Resp: 66  
 Ion Ratio Lower Upper  
 62 100  
 98 4.8 0.0 35.3  
 64 23.8 3.0 63.0





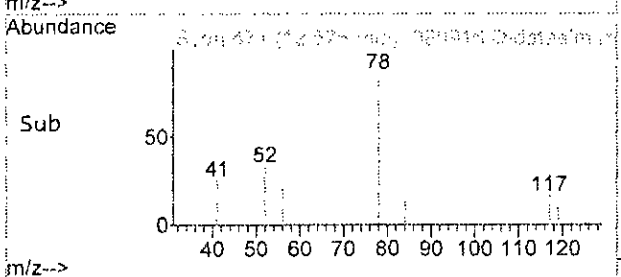
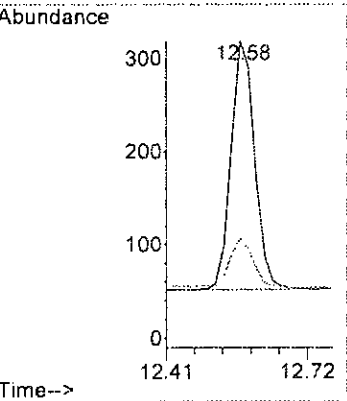
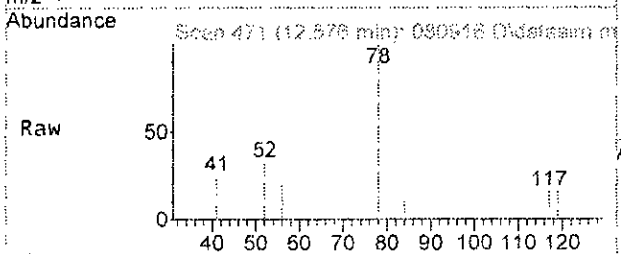
#36  
 Carbon tetrachloride  
 Concen: 0.070 ppbv  
 RT: 12.83 min Scan# 485  
 Delta R.T. -0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

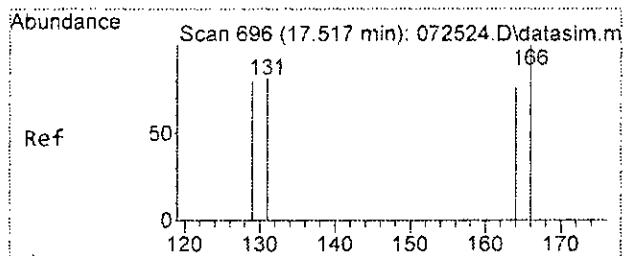
Tgt Ion: 117 Resp: 478  
 Ion Ratio Lower Upper  
 117 100  
 119 90.7 64.6 124.6



#37  
 Benzene  
 Concen: 0.088 ppbv m  
 RT: 12.58 min Scan# 471  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

Tgt Ion: 78 Resp: 950  
 Ion Ratio Lower Upper  
 78 100  
 52 33.2 0.0 49.7

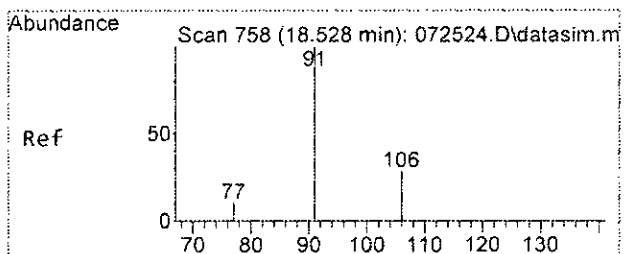
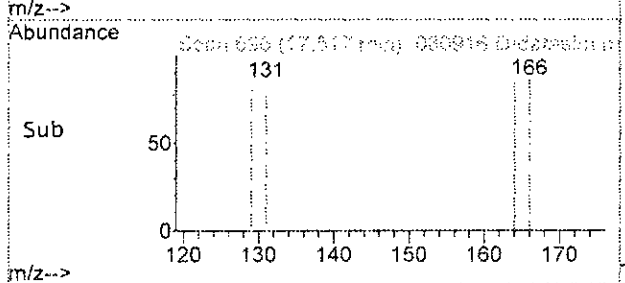
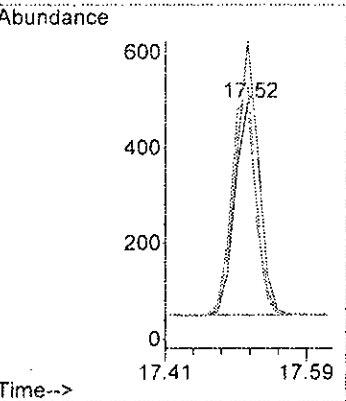
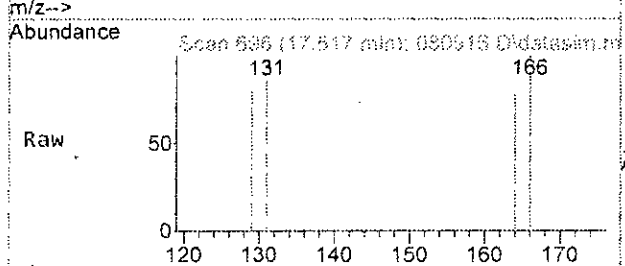




#53  
 Tetrachloroethene  
 Concen: 0.247 ppbv m  
 RT: 17.52 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

Tgt Ion: 164 Resp: 876

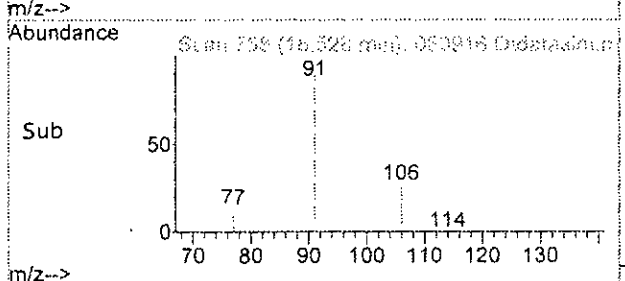
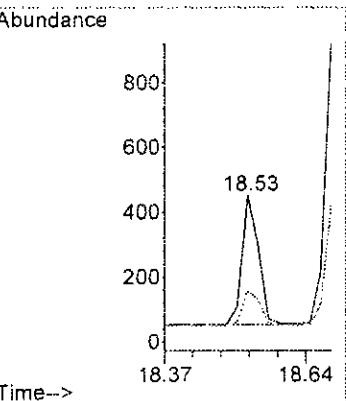
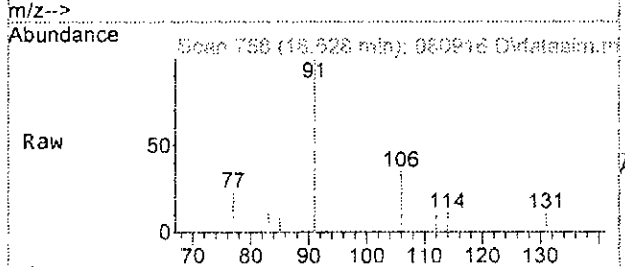
Ion	Ratio	Lower	Upper
164	100		
129	103.6	63.2	123.2
131	108.5	70.7	130.7
166	125.9	107.5	167.5

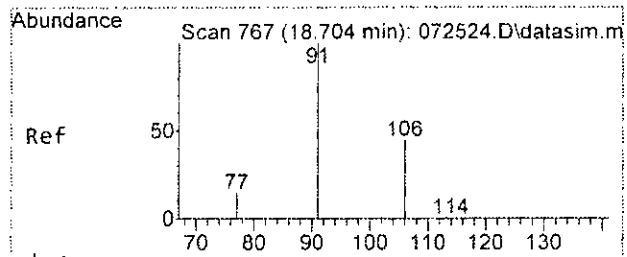


#58  
 Ethylbenzene  
 Concen: 0.069 ppbv  
 RT: 18.53 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

Tgt Ion: 91 Resp: 850

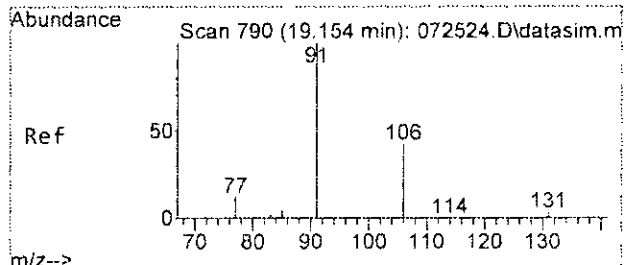
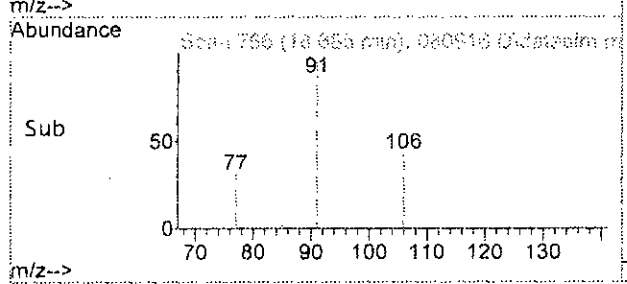
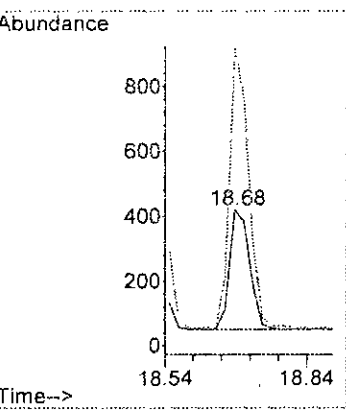
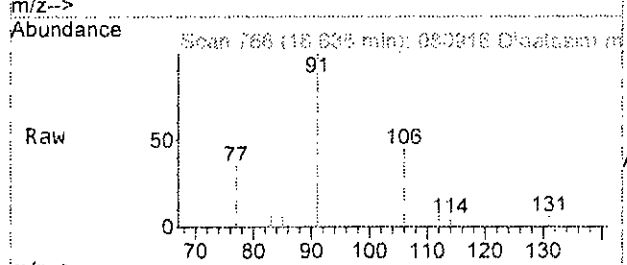
Ion	Ratio	Lower	Upper
91	100		
106	27.4	0.0	57.0





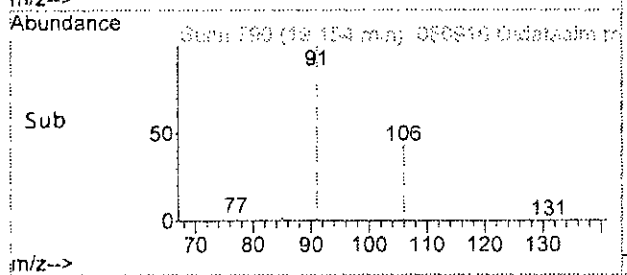
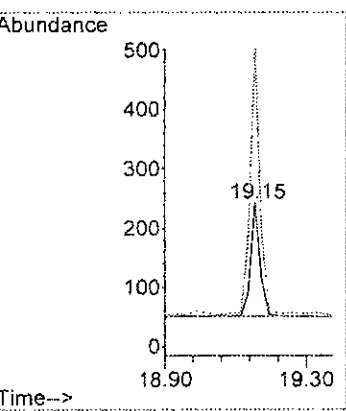
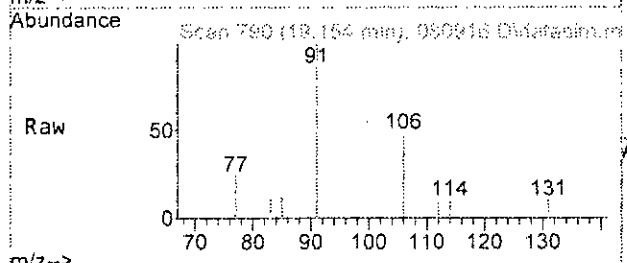
#65  
 m,p-Xylene  
 Concen: 0.262 ppbv  
 RT: 18.68 min Scan# 766  
 Delta R.T. -0.019 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

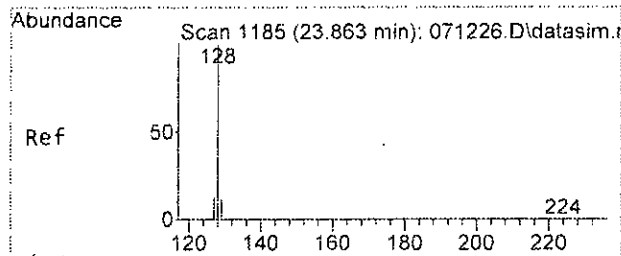
Tgt Ion:106 Resp: 1088  
 Ion Ratio Lower Upper  
 106 100  
 91 234.7 193.0 253.0



#66  
 o-Xylene  
 Concen: 0.093 ppbv  
 RT: 19.15 min Scan# 790  
 Delta R.T. 0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

Tgt Ion:106 Resp: 351  
 Ion Ratio Lower Upper  
 106 100  
 91 233.5 194.4 254.4

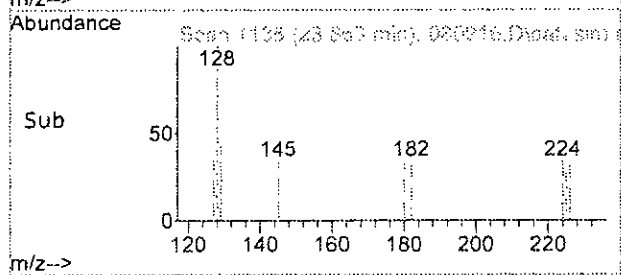
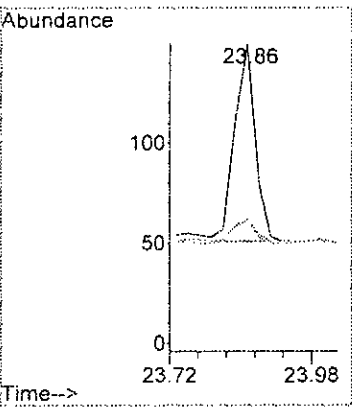
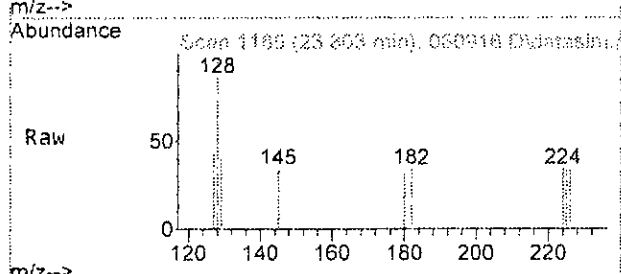




#77  
 Naphthalene  
 Concen: 0.035 ppbv  
 RT: 23.86 min Scan# 1185  
 Delta R.T. -0.000 min  
 Lab File: 080916.D  
 Acq: 9 Aug 2023 8:58 pm

Tgt Ion: 128 Resp: 248

Ion	Ratio	Lower	Upper
128	100		
129	11.2	0.0	41.0
127	12.2	0.0	43.2



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	19231	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.11	114	78754	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	68376	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	47352	9.346	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.50%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	775	N.D.		
3) Dichlorodifluoromethane	3.49	85	4325	0.457	ppbv	92
4) Chloromethane	3.69	50	1186	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7] 1,3-Butadiene	4.21	54	88	0.037	ppbv #	1
8) Butane	4.32	43	2706	N.D.		
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.88	45	68571	65.607	ppbv	90
13] Acrolein	5.39	56	432m	0.308	ppbv	
14) Pentane	6.25	43	1414	N.D.		
15) Trichlorofluoromethane	5.82	101	1583	N.D.		
16) Acetone	5.53	58	7268	5.637	ppbv	89
17) 2-Propanol	5.76	45	88838	15.766	ppbv	99
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	6.78	84	2892	N.D.		
21) t-Butyl alcohol (TBA)	6.57	59	1021	N.D.		
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	7.28	76	500	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	8.49	43	2192	N.D.		
27) 1,1-Dichloroethane	0.00		0	N.D.		
28) cis-1,2-Dichloroethene	0.00		0	N.D.		
29) Hexane	9.99	57	440	N.D.		
30] Chloroform	10.07	83	396	0.049	ppbv	100
31) Ethyl acetate	9.92	43	3857	N.D.		
32) Tetrahydrofuran	10.60	42	206	N.D.		
33) 2-Butanone (MEK)	8.72	72	399	N.D.		
34] 1,2-Dichloroethane (EDC)	11.30	62	66	0.012	ppbv	86
35) 1,1,1-Trichloroethane	11.79	97	124	N.D.		
36] Carbon tetrachloride	12.83	117	478	0.070	ppbv	96
37] Benzene	12.58	78	950m	0.088	ppbv	
38) Cyclohexane	0.00		0	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	



Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

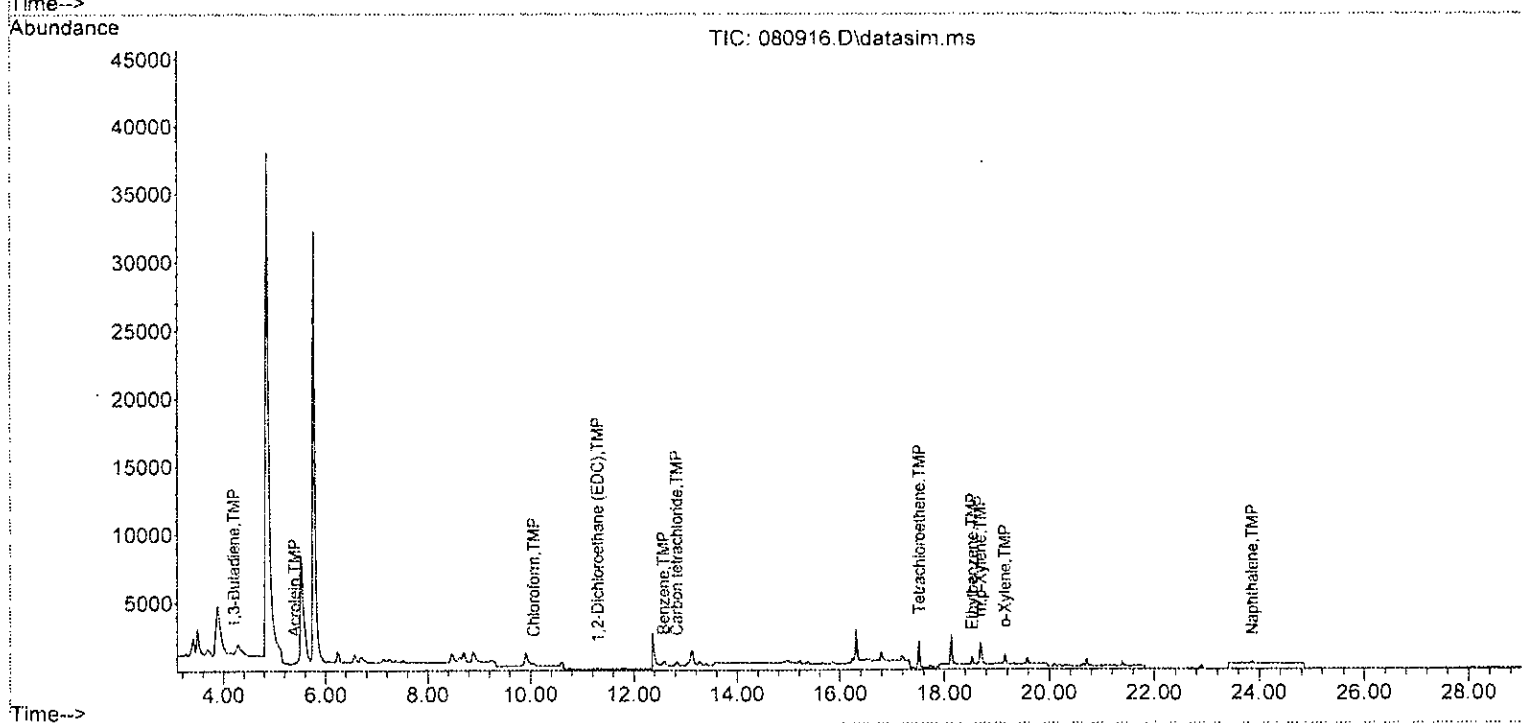
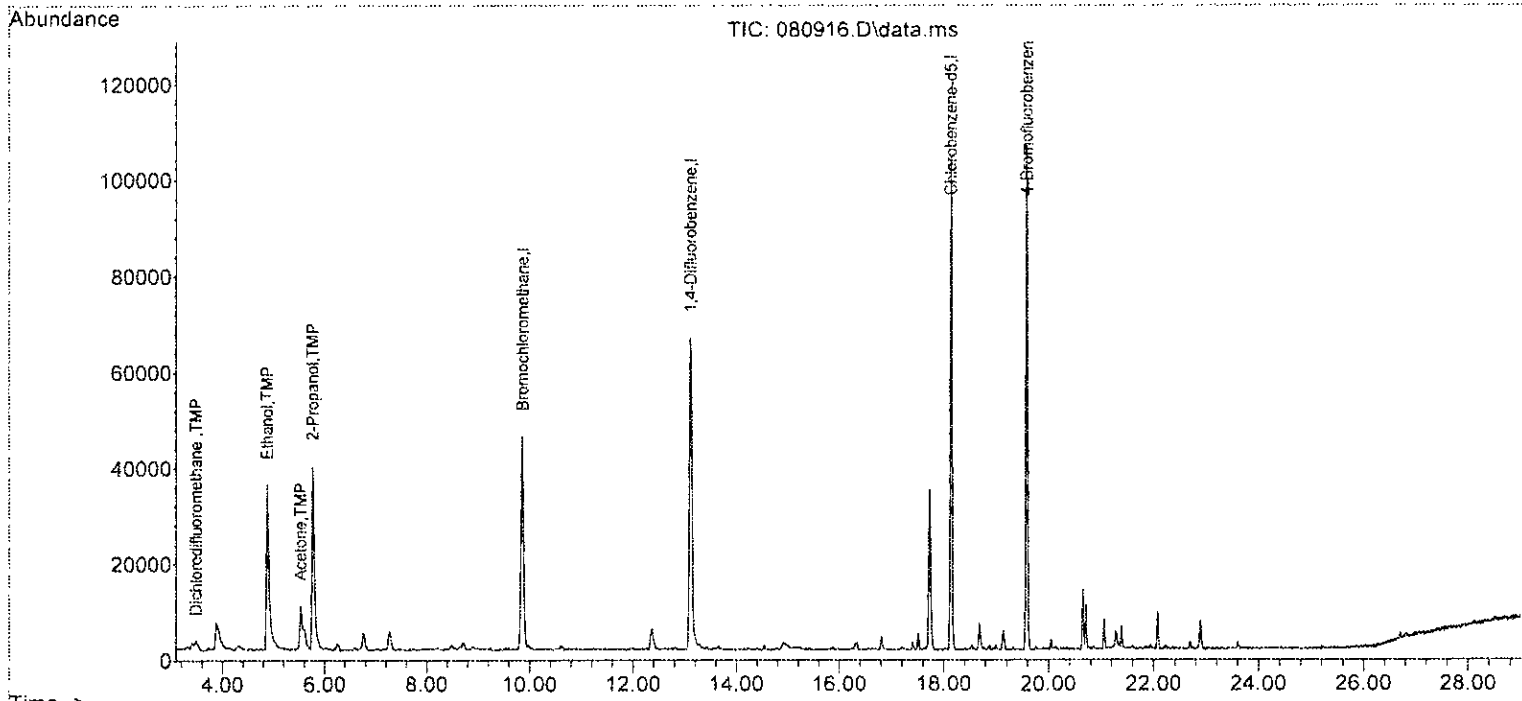
Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	14.14	88	63		N.D.	
42) 2,2,4-Trimethylpentane	14.21	57	250		N.D.	
43) Methyl methacrylate	14.53	41	275		N.D.	
44) Heptane	14.53	43	871		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	14.12	95	43		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	15.87	75	57		N.D.	
50) Toluene	16.31	92	2666		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.56	43	416		N.D.	
53] Tetrachloroethene	17.52	164	876m	0.247	ppbv	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58] Ethylbenzene	18.53	91	850	0.069	ppbv	99
59) 1,1,2,2-Tetrachloroethane	18.98	83	22		N.D.	
60) Nonane	19.32	43	197		N.D.	
61) Isopropylbenzene	20.04	105	1048		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	20.10	91	243		N.D.	
64) 4-Ethyltoluene	20.33	105	102		N.D.	
65] m,p-Xylene	18.68	106	1088	0.262	ppbv	93
66] o-Xylene	19.15	106	351	0.093	ppbv	94
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	d
71) 1,3,5-Trimethylbenzene	20.39	105	202		N.D.	
72) 1,2,4-Trimethylbenzene	20.81	105	397		N.D.	
73) 1,3-Dichlorobenzene	21.05	146	24		N.D.	
74) 1,4-Dichlorobenzene	21.05	146	24		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.86	128	248	0.035	ppbv	98
78) Hexachlorobutadiene	0.00		0		N.D.	

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

Data Path : D:\Proc\_GCMS7\08-09-23\  
 Data File : 080916.D  
 Acq On : 9 Aug 2023 8:58 pm  
 Operator : bat  
 Sample : 308147-08  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Aug 10 07:21:50 2023  
 Quant Method : D:\GCMS7 Methods\0725T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Thu Jul 27 16:51:38 2023  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



F&B Project 308148

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

308148

Report To TENNIFER MARSALA

Company ANCHOR DEA

Address 1201 3100 Ave #2600

City, State, ZIP SEATTLE, WA, 98109

Phone 206 987 4132 Email ANCHOR.DEA@GMA

SAMPLE CHAIN OF CUSTODY 08/09/23 WV1

SAMPLERS (signature) SPS

PROJECT NAME CHERRY CREEK

REMARKS See S2 APP

Project specific RIs?  Yes  No

INVOICE TO ANCHOR DEA, CSW

PO # 211780-01.61

ANALYSES REQUESTED

NWTPH-Dx

NWTPH-Gx

BTEX EPA 8021

NWTPH-HCID

VOCs EPA 8260

PAHs EPA 8270

PCBs EPA 8082

Page # 1 of 1

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples

Other

Default - Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
CC-MW-01-GW-20230808	01 A-C	8-8-23	1230	H2O	3											
CC-MW-4D-GW-20230808	02		1345		3											4D = 4 DEEP
CC-MW-03-GW-20230808	03		1455		3											
BP-MW08-GW-20230808	04		1325		3											
BP-MW1008-GW-20230808	05		1330		3											
TB-20230808	06 A-B	8-8-23	0700	H2O	2											TRAP BROWN

SIGNATURE

Relinquished by: [Signature]

Received by: Stephen Smutz

Relinquished by: [Signature]

Received by: JOE MATHANCB

PRINT NAME

COMPANY

DATE

TIME

Samples received at 7 oC

Friedman & Bruya, Inc.  
Ph. (206) 285-8282

B

# SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 308148 CLIENT ACQ INITIALS/DATE: 08/08/23 AM

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

Cooler/Sample temperature \_\_\_\_\_ °C  
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs?  YES  NO

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

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

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

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

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

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

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

Were appropriate sample containers used?  YES  NO  Unknown

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

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

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

If Yes:  
Number of unused TO15 canisters \_\_\_\_\_ Number of unused TO17 tubes \_\_\_\_\_

Explain "no" items from above (use the back if needed)

# Laboratory Worksheets

# VOC EXTRACTION WORKSHEET (WATER)

Project #: 308148  
 Client: Anchor  
 QC Batch ID: 03 1811  
 Samples checked against COC W

HT \_\_\_\_\_

Date Received: 8/8/23  
 Date Extracted: \_\_\_\_\_  
 Date Analyzed: \_\_\_\_\_  
 GCMS  4  11  13, Seq. Date \_\_\_\_\_

<b>Analysis Method:</b> <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8260 SIM <input type="checkbox"/> 524.2 SIM <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> 8260 Normal List <input type="checkbox"/> cVOCs <input checked="" type="checkbox"/> PCE/Daughters	<input type="checkbox"/> BTEX <input type="checkbox"/> BTEX+N <input type="checkbox"/> Other _____	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/L (ppb) <input type="checkbox"/> Other _____
Due Date: <u>8/16</u>		<input checked="" type="checkbox"/> Historical Data Attached <span style="margin-left: 100px;"><u>RLs below</u></span>	
		<input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Need EDF	

Sample ID	pH Lot: 10D3112	Sample Volume (mL)	Final Volume (mL)	Dilutions		Dilution Factor	Foamy Sample	Observations	
				Amt. Extract	Amt. Solvent				
01	6.2			430 µl	mL	FS 1/100			
02						FS			
03									
04									
05									
06									
				Compounds:				Concentration ug/L (ppb)	
				Vinyl chloride				<0.02	
				trans-1,2-Dichloroethene				<0.05	
				cis-1,2-Dichloroethene				<0.05	
				Trichloroethene				<0.05	
				Tetrachloroethene				<0.05	

Initials							

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	DI Water			
Other							
Internal Standard(s)/ Surrogate(s)		100 µl	250	Surrogate mix			
	<input checked="" type="checkbox"/>	10 ppm Surr/IS Mix spiked at instr. to yield 10 ppb			68.191	W	8/9
		25 ppm Surr/IS Mix spiked at instr. to yield 5 ppb					

Project Leader Initials: MC      NOTES: Tier IV

Calculated by W 8/10/23      Reviewed by YA 08/11/23



# BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 8.9.23 9:00

Technician: W/M

QA Batch: **03-1811**

pH Lot: \_\_\_\_\_

- |   |   |             |
|---|---|-------------|
| <b>Matrix</b>                             | <b>Solvent</b>                              |             |
| <input type="checkbox"/> Soil             | <input type="checkbox"/> Methylene Chloride | Solvent     |
| <input checked="" type="checkbox"/> Water | <input type="checkbox"/> Acetone            | Lot # _____ |
| <input type="checkbox"/> Product/Wipe     | <input type="checkbox"/> Methanol           |             |
| <input type="checkbox"/> Air              | <input type="checkbox"/> Hexane             |             |
| <input type="checkbox"/> Other _____      | <input type="checkbox"/> DI Water           |             |
|   | <input type="checkbox"/> Other _____        |             |

- Analysis**
- |                                     |  |                                      |
|-------------------------------------|--|--------------------------------------|
| <input type="checkbox"/> Diesel     | <input checked="" type="checkbox"/> 8260 | <input type="checkbox"/> PCB         |
| <input type="checkbox"/> Gas/BTEX   | <input type="checkbox"/> 8270            | <input type="checkbox"/> Pest / Tox  |
| <input type="checkbox"/> HCID       | <input type="checkbox"/> Phenols         | <input type="checkbox"/> 1,4-Dioxane |
| <input type="checkbox"/> TO15 / APH | <input type="checkbox"/> TO17            | <input type="checkbox"/> Other _____ |

- Clean Up:**
- |                                 |                                     |                                |
|---------------------------------|-------------------------------------|--------------------------------|
| <input type="checkbox"/> Silica | <input type="checkbox"/> Na2SO3     | <input type="checkbox"/> TBA   |
| <input type="checkbox"/> Other  | <input type="checkbox"/> Filtration | <input type="checkbox"/> H2SO4 |

Sample ID	pH Waters only	Sample Weight/ Volume	Extraction Solvent Volume	Final Volume	Dilutions		Clean Up (Circle)			Observations
					Amt. Extract	Amt. Solvent	Na2SO3	TBA	H2SO4	
LCS		43		43						
LCS0										
MS										
MS										
										308141-01
Initials										

**Samples in Batch**

308141-01	-05	-02	1	-06
-02	-06	-03		
-03	308113-11	-04		
-04	308148-01	-05		

Matrix Spikes: \_\_\_\_\_ Date/Initials \_\_\_\_\_

8.6  $\mu$ L of 50 ppm of 8260 LCS/MS Lot # 70.18 W 8/9

Amount Concentration Analytes and Solvent

Matrix Spikes: \_\_\_\_\_ Lot # \_\_\_\_\_

Amount  $\mu$ L of Concentration Analytes and Solvent

Matrix Spikes: \_\_\_\_\_ Lot # \_\_\_\_\_

Amount  $\mu$ L of Concentration Analytes and Solvent

Surrogates: \_\_\_\_\_ Lot # 68.199

5  $\mu$ L of 10 ppm of 8260 TS/MS

Amount Concentration Analytes and Solvent

Internal Standards: \_\_\_\_\_ Lot # \_\_\_\_\_

Amount  $\mu$ L of Concentration Analytes and Solvent

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

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

Reported MDL Data and Calculations

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

Analysis: 8260 Standard(s) spiked: 68-53, 68-93  
 Matrix: Water Volume spiked: 17.2 uL (C), 43 uL (C), 8.6 uL (B), 4.3 uL (A)  
 Instrument ID: GCMS #11 Date(s) Extracted: 01/04/23, 01/05/23, 01/16/23, 01/17/23, 01/19/23, 01/25/23  
 Reporting Units: ug/L Date(s) Analyzed: 01/04/23, 01/05/23, 01/16/23, 01/17/23, 01/19/23, 01/25/23  
 Date Calculated: 01/05/23, 01/06/23, 01/17/23, 01/18/23, 01/20/23, 01/26/23  
 Calculation Analyst: LM

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.055	0.110	0.275	0.018	0.175	0.200	87
Chloromethane	0.437	0.873	2.183	0.146	2.060	2.000	103
Vinyl chloride	0.015	0.030	0.076	0.005	0.023	0.020	116
Bromomethane	0.867	1.734	4.335	0.289	2.350	2.000	117
Chloroethane	0.043	0.086	0.216	0.014	0.232	0.200	116
Trichlorofluoromethane	0.087	0.174	0.436	0.029	0.214	0.200	107
2-Propanol							
Acetone	1.662	3.325	8.312	0.555	7.254	10.000	73
1,1-Dichloroethene	0.016	0.031	0.079	0.005	0.023	0.020	113
Hexane	0.043	0.086	0.216	0.014	0.222	0.200	111
Methylene chloride	0.329	0.658	1.646	0.110	3.106	2.000	155
t-Butyl alcohol (TBA)	1.411	2.822	7.054	0.471	9.248	10.000	92
Methyl t-butyl ether (MTBE)	0.010	0.019	0.049	0.003	0.022	0.020	109
trans-1,2-Dichloroethene	0.046	0.091	0.228	0.015	0.210	0.200	105
Diisopropyl ether (DIPE)	0.109	0.219	0.546	0.036	0.225	0.200	112
1,1-Dichloroethane	0.010	0.020	0.049	0.003	0.023	0.020	116
Ethyl t-butyl ether (ETBE)	0.074	0.148	0.369	0.025	0.217	0.200	108
2,2-Dichloropropane	0.100	0.200	0.499	0.033	0.264	0.200	132
cis-1,2-Dichloroethene	0.033	0.065	0.164	0.011	0.056	0.050	112
Chloroform	0.096	0.191	0.478	0.032	0.222	0.200	111
2-Butanone (MEK)	1.366	2.733	6.832	0.456	7.171	10.000	72
t-Amyl methyl ether (TAME)	0.084	0.169	0.422	0.028	0.218	0.200	109
1,2-Dichloroethane (EDC)	0.026	0.052	0.130	0.009	0.214	0.200	107
1,1,1-Trichloroethane	0.004	0.008	0.020	0.001	0.023	0.020	113
1,1-Dichloropropene	0.075	0.151	0.377	0.025	0.219	0.200	109
Carbon tetrachloride	0.077	0.154	0.384	0.026	0.215	0.200	107
Benzene	0.009	0.018	0.046	0.003	0.025	0.020	123
Trichloroethene	0.009	0.017	0.043	0.003	0.025	0.020	123
1,2-Dichloropropane	0.103	0.206	0.515	0.034	0.222	0.200	111
Bromodichloromethane	0.111	0.222	0.555	0.037	0.216	0.200	108
Dibromomethane	0.163	0.327	0.817	0.054	0.206	0.200	103
4-Methyl-2-pentanone	0.671	1.342	3.356	0.224	0.889	1.000	89
cis-1,3-Dichloropropene	0.124	0.248	0.620	0.041	0.197	0.200	99
Toluene	0.016	0.033	0.082	0.005	0.032	0.020	159
trans-1,3-Dichloropropene	0.080	0.159	0.398	0.027	0.204	0.200	102
1,1,2-Trichloroethane	0.037	0.075	0.186	0.012	0.210	0.200	105
2-Hexanone	1.374	2.748	6.869	0.458	8.005	10.000	80
1,3-Dichloropropane	0.115	0.230	0.575	0.038	0.222	0.200	111
Tetrachloroethene	0.014	0.028	0.069	0.005	0.019	0.020	94
Dibromochloromethane	0.081	0.162	0.405	0.027	0.223	0.200	111
1,2-Dibromoethane (EDB)	0.005	0.010	0.025	0.002	0.024	0.020	119
Chlorobenzene	0.077	0.154	0.386	0.026	0.205	0.200	102
Ethylbenzene	0.009	0.018	0.044	0.003	0.026	0.020	129
1,1,1,2-Tetrachloroethane	0.088	0.175	0.438	0.029	0.226	0.200	113
m,p-Xylene	0.019	0.038	0.095	0.006	0.054	0.040	134
o-Xylene	0.010	0.020	0.050	0.003	0.025	0.020	124
Styrene	0.386	0.773	1.932	0.129	1.856	2.000	93
Isopropylbenzene	0.057	0.113	0.283	0.019	0.209	0.200	104
Bromoform	0.063	0.125	0.313	0.021	0.143	0.200	72
n-Propylbenzene	0.045	0.091	0.227	0.015	0.214	0.200	107
Bromobenzene	0.118	0.235	0.588	0.039	0.210	0.200	105
1,3,5-Trimethylbenzene	0.083	0.166	0.416	0.028	0.202	0.200	101
1,1,1,2-Tetrachloroethane	0.069	0.138	0.346	0.023	0.227	0.200	113
1,2,3-Trichloropropane	0.010	0.020	0.050	0.003	0.061	0.050	122
2-Chlorotoluene	0.065	0.130	0.326	0.022	0.215	0.200	108
4-Chlorotoluene	0.050	0.101	0.252	0.017	0.195	0.200	97
tert-Butylbenzene	0.066	0.132	0.330	0.022	0.209	0.200	105
1,2,4-Trimethylbenzene	0.050	0.101	0.252	0.017	0.211	0.200	106
sec-Butylbenzene	0.043	0.086	0.215	0.014	0.203	0.200	101
p-Isopropyltoluene	0.048	0.095	0.238	0.016	0.203	0.200	101
1,3-Dichlorobenzene	0.053	0.106	0.264	0.018	0.210	0.200	105
1,4-Dichlorobenzene	0.076	0.153	0.381	0.025	0.214	0.200	107
1,2-Dichlorobenzene	0.029	0.057	0.143	0.010	0.219	0.200	110
1,2-Dibromo-3-chloropropane	0.327	0.655	1.637	0.109	1.926	2.000	96
1,2,4-Trichlorobenzene	0.078	0.156	0.391	0.026	0.232	0.200	116
Hexachlorobutadiene	0.098	0.196	0.489	0.033	0.216	0.200	108
Naphthalene	0.065	0.130	0.326	0.022	0.209	0.200	105
1,2,3-Trichlorobenzene	0.237	0.473	1.183	0.079	1.997	2.000	100

**Reported MDL Data and Calculations**

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

Analysis: 8260 Standard(s) spiked: 68-53, 68-93  
 Matrix: Water Volume spiked: 17.2 uL (C), 43 uL (C), 8.6 uL (B), 4.3 uL (A)  
 Instrument ID: GCMS #13 Date(s) Extracted: 01/04/23, 01/05/23, 01/18/23, 01/19/23, 01/25/23  
 Reporting Units: ug/L Date(s) Analyzed: 01/04/23, 01/05/23, 01/18/23, 01/19/23, 01/25/23  
 Date Calculated: 01/05/23, 01/06/23, 01/19/23, 01/20/23, 01/26/23  
 Calculation Analyst: LM

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.288	0.575	1.438	0.096	0.227	0.200	113
Chloromethane	1.055	2.110	5.274	0.352	1.856	2.000	93
Vinyl chloride	0.012	0.024	0.060	0.004	0.024	0.020	118
Bromomethane	2.087	4.175	10.437	0.696	2.166	2.000	108
Chloroethane	0.050	0.100	0.250	0.017	0.201	0.200	100
Trichlorofluoromethane	0.191	0.382	0.955	0.064	0.219	0.200	109
2-Propanol							
Acetone	2.866	5.731	14.328	0.956	7.504	10.000	75
1,1-Dichloroethene	0.021	0.042	0.106	0.007	0.049	0.050	97
Hexane	0.166	0.332	0.829	0.055	0.216	0.200	108
Methylene chloride	0.823	1.646	4.115	0.275	2.641	2.000	132
t-Butyl alcohol (TBA)	4.474	8.949	22.371	1.492	8.588	10.000	86
Methyl t-butyl ether (MTBE)	0.014	0.029	0.072	0.005	0.047	0.050	94
trans-1,2-Dichloroethene	0.016	0.031	0.078	0.005	0.053	0.050	105
Diisopropyl ether (DIPE)	0.096	0.193	0.482	0.032	0.207	0.200	103
1,1-Dichloroethane	0.017	0.034	0.084	0.006	0.052	0.050	104
Ethyl t-butyl ether (ETBE)	0.176	0.351	0.878	0.059	0.202	0.200	101
2,2-Dichloropropane	0.325	0.651	1.627	0.109	0.104	0.200	52
cis-1,2-Dichloroethene	0.020	0.039	0.099	0.007	0.049	0.050	98
Chloroform	0.182	0.363	0.908	0.061	0.217	0.200	108
2-Butanone (MEK)	1.863	3.727	9.317	0.622	7.630	10.000	76
t-Amyl methyl ether (TAME)	0.115	0.230	0.575	0.038	0.214	0.200	107
1,2-Dichloroethane (EDC)	0.037	0.074	0.185	0.012	0.201	0.200	101
1,1,1-Trichloroethane	0.017	0.035	0.087	0.006	0.050	0.050	100
1,1-Dichloropropene	0.123	0.246	0.616	0.041	0.223	0.200	111
Carbon tetrachloride	0.159	0.317	0.794	0.053	0.203	0.200	101
Benzene	0.019	0.038	0.095	0.006	0.049	0.050	98
Trichloroethene	0.030	0.061	0.152	0.010	0.048	0.050	95
1,2-Dichloropropane	0.236	0.473	1.182	0.079	0.235	0.200	117
Bromodichloromethane	0.200	0.401	1.001	0.067	0.201	0.200	101
Dibromomethane	0.125	0.249	0.623	0.042	0.213	0.200	106
4-Methyl-2-pentanone	3.428	6.855	17.138	1.143	8.612	10.000	86
cis-1,3-Dichloropropene	0.150	0.299	0.748	0.050	0.168	0.200	84
Toluene	0.062	0.123	0.308	0.021	0.054	0.050	107
trans-1,3-Dichloropropene	0.117	0.235	0.587	0.039	0.183	0.200	92
1,1,2-Trichloroethane	0.084	0.168	0.421	0.028	0.223	0.200	112
2-Hexanone	3.665	7.329	18.324	1.222	9.012	10.000	90
1,3-Dichloropropane	0.115	0.230	0.576	0.038	0.239	0.200	119
Tetrachloroethene	0.043	0.086	0.214	0.014	0.046	0.050	92
Dibromochloromethane	0.206	0.413	1.031	0.069	0.210	0.200	105
1,2-Dibromoethane (EDB)	0.004	0.007	0.019	0.001	0.023	0.020	114
Chlorobenzene	0.100	0.200	0.499	0.033	0.219	0.200	109
Ethylbenzene	0.023	0.046	0.116	0.008	0.022	0.020	108
1,1,1,2-Tetrachloroethane	0.157	0.314	0.786	0.052	0.224	0.200	112
m,p-Xylene	0.044	0.087	0.218	0.015	0.043	0.040	108
o-Xylene	0.023	0.047	0.117	0.008	0.019	0.020	94
Styrene	0.171	0.342	0.855	0.057	0.149	0.200	74
Isopropylbenzene	0.032	0.063	0.158	0.011	0.207	0.200	104
Bromoform	0.169	0.338	0.844	0.056	0.213	0.200	107
n-Propylbenzene	0.101	0.203	0.507	0.034	0.217	0.200	109
Bromobenzene	0.195	0.389	0.973	0.065	0.233	0.200	116
1,3,5-Trimethylbenzene	0.044	0.087	0.218	0.015	0.201	0.200	101
1,1,1,2-Tetrachloroethane	0.172	0.344	0.860	0.057	0.260	0.200	130
1,2,3-Trichloropropane	0.010	0.019	0.048	0.003	0.032	0.050	65
2-Chlorotoluene	0.259	0.518	1.294	0.086	0.178	0.200	89
4-Chlorotoluene	0.098	0.196	0.490	0.033	0.219	0.200	109
tert-Butylbenzene	0.055	0.110	0.276	0.018	0.210	0.200	105
1,2,4-Trimethylbenzene	0.084	0.169	0.422	0.028	0.205	0.200	103
sec-Butylbenzene	0.075	0.150	0.376	0.025	0.195	0.200	97
p-Isopropyltoluene	0.068	0.137	0.342	0.023	0.195	0.200	97
1,3-Dichlorobenzene	0.112	0.223	0.558	0.037	0.224	0.200	112
1,4-Dichlorobenzene	0.133	0.265	0.663	0.044	0.236	0.200	118
1,2-Dichlorobenzene	0.123	0.246	0.615	0.041	0.222	0.200	111
1,2-Dibromo-3-chloropropane	0.795	1.591	3.977	0.265	1.799	2.000	90
1,2,4-Trichlorobenzene	0.226	0.452	1.130	0.075	0.224	0.200	112
Hexachlorobutadiene	0.285	0.570	1.426	0.095	0.240	0.200	120
Naphthalene	0.191	0.382	0.956	0.064	0.173	0.200	87
1,2,3-Trichlorobenzene	0.206	0.412	1.030	0.069	0.212	0.200	106

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

Comment:

Operator: MD

AWB7131

Data Path: D:\GCMS13\GCMS13\_Data\07-28-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	072801	VM040623	rinse
2)	Sample	100	072802	VM040623	rinse
3)	Sample	1	072803	VM040623	10 ppb 8260 CCV 69-198N
4)	Sample	2	072804	VM040623	03-1785 lcs
5)	Sample	3	072805	VM040623	03-1785 lcsd
6)	Sample	100	072806	VM040623	rinse
7)	Sample	4	072807	VM040623	03-1785 mb
8)	Sample	5	072808	VM040623	03-1783 mb 1/0.5
9)	Sample	100	072809	VM040623	rinse
10)	Sample	6	072810	VM040623	03-1783 lcs
11)	Sample	100	072811	VM040623	rinse
12)	Sample	7	072812	VM040623	03-1783 mb
13)	Sample	8	072813	VM040623	03-1783 mb 1/0.5 rr
14)	Sample	9	072814	VM040623	307360-03
15)	Sample	10	072815	VM040623	307360-03 ms
16)	Sample	11	072816	VM040623	307360-03 msd
17)	Sample	100	072817	VM040623	rinse
18)	Sample	100	072818	VM040623	rinse
19)	Sample	12	072819	VM040623	307367-01 1/0.5
20)	Sample	13	072820	VM040623	307367-02 1/0.5
21)	Sample	14	072821	VM040623	307367-03 1/0.5
22)	Sample	15	072822	VM040623	307367-04 1/0.5
23)	Sample	16	072823	VM040623	307367-05 1/0.5
24)	Sample	17	072824	VM040623	307367-05 1/0.5 rr
25)	Sample	18	072825	VM040623	307367-06 1/0.5
26)	Sample	19	072826	VM040623	307367-07 1/0.5
27)	Sample	20	072827	VM040623	307367-08 1/0.5
28)	Sample	21	072828	VM040623	307367-09 1/0.5
29)	Sample	100	072829	VM040623	50 ng BFB 69-21a
30)	Sample	100	072830	VM040623	rinse
31)	Sample	100	072831	VM040623	rinse
32)	Sample	100	072832	VM040623	rinse
33)	Sample	100	072833	VM040623	rinse
34)	Sample	100	072834	VM040623	rinse
35)	Sample	100	072835	VM040623	rinse
36)	Sample	22	072836	VM040623	0.01 ppb 8260 ICAL 69-198e
37)	Sample	23	072837	VM040623	0.02 ppb 8260 ICAL 69-198f
38)	Sample	24	072838	VM040623	0.04 ppb 8260 ICAL 69-198g
39)	Sample	25	072839	VM040623	0.1 ppb 8260 ICAL 69-198h
40)	Sample	26	072840	VM040623	0.2 ppb 8260 ICAL 69-198i
41)	Sample	27	072841	VM040623	0.5 ppb 8260 ICAL 69-198j

Sequence.Name: D:\GCMS13\sequence\07-28-23.sequence.xml

Comment:

Operator: MD

Data Path: D:\GCMS13\GCMS13\_Data\07-28-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	28	072842	VM040623	1 ppb	8260	ICAL	69-198k
43)	Sample	29	072843	VM040623	2 ppb	8260	ICAL	69-198l
44)	Sample	30	072844	VM040623	5 ppb	8260	ICAL	69-198m
45)	Sample	31	072845	VM040623	10 ppb	8260	ICAL	69-198n
46)	Sample	32	072846	VM040623	20 ppb	8260	ICAL	69-198o
47)	Sample	33	072847	VM040623	50 ppb	8260	ICAL	69-198q
48)	Sample	34	072848	VM040623	100 ppb	8260	ICAL	69-198s
49)	Sample	35	072849	VM040623	150 ppb	8260	ICAL	69-198t
50)	Sample	36	072850	VM040623	200 ppb	8260	ICAL	69-198u
51)	Sample	37	072851	VM040623	rinse			
52)	Sample	38	072852	VM040623	10 ppb	8260	SCV	69-195c
53)	Sample	100	072853	VM040623	rinse			
54)	Sample	100	072854	VM040623	rinse			

## Injection Log

Data Directory: Y:\Proc\_GCMS13\07-28-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 072801.D rinse	VM040623.M	100	1.000	28 Jul 2023 06:17 am
2) 072802.D rinse	VM040623.M	100	1.000	28 Jul 2023 06:41 am
3) 072803.D 10 ppb 8260 CCV 69.. soil/water	VM040623.M	1	1.000	28 Jul 2023 07:04 am
4) 072804.D 03-1785 lcs	VM040623.M water	2	1.000	28 Jul 2023 07:27 am
5) 072805.D 03-1785 lcsd	VM040623.M water	3	1.000	28 Jul 2023 07:51 am
6) 072806.D rinse	VM040623.M	100	1.000	28 Jul 2023 08:14 am
7) 072807.D 03-1785 mb	VM040623.M water	4	1.000	28 Jul 2023 08:37 am
8) 072808.D 03-1783 mb 1/0.5	VM040623.M soil	5	1.000	28 Jul 2023 09:00 am
9) 072809.D rinse	VM040623.M soil/water	100	1.000	28 Jul 2023 10:24 am
10) 072810.D 03-1783 lcs	VM040623.M soil	6	1.000	28 Jul 2023 10:47 am
11) 072811.D rinse	VM040623.M soil	100	1.000	28 Jul 2023 11:10 am
12) 072812.D 03-1783 mb	VM040623.M soil	7	1.000	28 Jul 2023 11:34 am
13) 072813.D 03-1783 mb 1/0.5 rr	VM040623.M soil	8	1.000	28 Jul 2023 11:57 am
14) 072814.D 307360-03	VM040623.M soil	9	1.000	28 Jul 2023 12:21 pm
15) 072815.D 307360-03 ms	VM040623.M soil	10	1.000	28 Jul 2023 12:44 pm
16) 072816.D 307360-03 msd	VM040623.M soil	11	1.000	28 Jul 2023 01:08 pm
17) 072817.D rinse	VM040623.M	100	1.000	28 Jul 2023 01:31 pm
18) 072818.D rinse	VM040623.M	100	1.000	28 Jul 2023 01:54 pm
19) 072819.D 307367-01 1/0.5	VM040623.M soil	12	1.000	28 Jul 2023 02:17 pm
20) 072820.D 307367-02 1/0.5	VM040623.M soil	13	1.000	28 Jul 2023 02:40 pm
21) 072821.D	VM040623.M			



307367-03 1/0.5	soil		14	1.000	28 Jul 2023	03:04 pm
22) 072822.D		VM040623.M				
307367-04 1/0.5	soil		15	1.000	28 Jul 2023	03:27 pm
23) 072823.D		VM040623.M				
307367-05 1/0.5	soil		16	1.000	28 Jul 2023	03:51 pm
24) 072824.D		VM040623.M				
307367-05 1/0.5 rr	soil		17	1.000	28 Jul 2023	04:14 pm
25) 072825.D		VM040623.M				
307367-06 1/0.5	soil		18	1.000	28 Jul 2023	04:38 pm
26) 072826.D		VM040623.M				
307367-07 1/0.5	soil		19	1.000	28 Jul 2023	05:01 pm
27) 072827.D		VM040623.M				
307367-08 1/0.5	soil		20	1.000	28 Jul 2023	05:24 pm
28) 072828.D		VM040623.M				
307367-09 1/0.5	soil		21	1.000	28 Jul 2023	05:48 pm
29) 072829.D		VM040623.M				
50 ng BFB 69-21a	direct inj		22	1.000	28 Jul 2023	06:14 pm
30) 072830.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	06:44 pm
31) 072831.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	07:07 pm
32) 072832.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	07:30 pm
33) 072833.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	07:53 pm
34) 072834.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	08:16 pm
35) 072835.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	08:39 pm
36) 072836.D		VM040623.M				
0.01 ppb 8260 ICAL..	soil/water		22	1.000	28 Jul 2023	09:02 pm
37) 072837.D		VM040623.M				
0.02 ppb 8260 ICAL..	soil/water		23	1.000	28 Jul 2023	09:26 pm
38) 072838.D		VM040623.M				
0.04 ppb 8260 ICAL..	soil/water		24	1.000	28 Jul 2023	09:49 pm
39) 072839.D		VM040623.M				
0.1 ppb 8260 ICAL ..	soil/water		25	1.000	28 Jul 2023	10:12 pm
40) 072840.D		VM040623.M				
0.2 ppb 8260 ICAL ..	soil/water		26	1.000	28 Jul 2023	10:36 pm
41) 072841.D		VM040623.M				
0.5 ppb 8260 ICAL ..	soil/water		27	1.000	28 Jul 2023	10:59 pm
42) 072842.D		VM040623.M				
1 ppb 8260 ICAL 69..	soil/water		28	1.000	28 Jul 2023	11:23 pm
43) 072843.D		VM040623.M				
2 ppb 8260 ICAL 69..	soil/water		29	1.000	28 Jul 2023	11:46 pm

44) 072844.D	VM040623.M				
5 ppb 8260 ICAL 69.. soil/water		30	1.000	29 Jul 2023	12:09 am
-----					
45) 072845.D	VM040623.M				
10 ppb 8260 ICAL 6.. soil/water		31	1.000	29 Jul 2023	12:32 am
-----					
46) 072846.D	VM040623.M				
20 ppb 8260 ICAL 6.. soil/water		32	1.000	29 Jul 2023	12:55 am
-----					
47) 072847.D	VM040623.M				
50 ppb 8260 ICAL 6.. soil/water		33	1.000	29 Jul 2023	01:19 am
-----					
48) 072848.D	VM040623.M				
100 ppb 8260 ICAL .. soil/water		34	1.000	29 Jul 2023	01:42 am
-----					
49) 072849.D	VM040623.M				
150 ppb 8260 ICAL .. soil/water		35	1.000	29 Jul 2023	02:05 am
-----					
50) 072850.D	VM040623.M				
200 ppb 8260 ICAL .. soil/water		36	1.000	29 Jul 2023	02:28 am
-----					
51) 072851.D	VM040623.M				
rinse	soil/water	37	1.000	29 Jul 2023	02:52 am
-----					
52) 072852.D	VM040623.M				
10 ppb 8260 SCV 69.. soil/water		38	1.000	29 Jul 2023	03:15 am
-----					
53) 072853.D	VM040623.M				
rinse		100	1.000	29 Jul 2023	03:38 am
-----					
54) 072854.D	VM040623.M				
rinse		100	1.000	29 Jul 2023	04:00 am
-----					

Comment:

Operator: LM

AWB8/3

Data Path: D:\GCMS11\GCMS11\_Data\05-23-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

- (X) Full Method
- ( ) Reprocessing Only

Sequence Barcode Options

- ( ) On Mismatch, Inject Anyway
- ( ) On Mismatch, Don't Inject
- (X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	080201	VM042423	rinse
2)	Sample	100	080202	VM042423	rinse
3)	Sample	1	080203	VM042423	<del>10 ppb 8260 CCV 69-198N</del> 03-1797 LCS
4)	Sample	2	080204	VM042423	10 ppb 8260 CCV 69-198N
5)	Sample	3	080205	VM042423	<del>03-1797 lcs</del> 10 Ppb 8260
6)	Sample	4	080206	VM042423	03-1797 lcsd
7)	Sample	100	080207	VM042423	rinse
8)	Sample	5	080208	VM042423	03-1797 mb
9)	Sample	100	080209	VM042423	rinse
10)	Sample	7	080210	VM042423	10 ppb 8260 CCV 69-198N
11)	Sample	8	080211	VM042423	10 ppb 8260 CCV 69-198N
12)	Sample	100	080212	VM042423	rinse
13)	Sample	100	080213	VM042423	50 ng BFB 69-21
14)	Sample	100	080214	VM042423	rinse
15)	Sample	100	080215	VM042423	rinse
16)	Sample	100	080216	VM042423	rinse
17)	Sample	100	080217	VM042423	rinse
18)	Sample	100	080218	VM042423	rinse
19)	Sample	9	080219	VM042423	0.01 ppb 8260 ICAL 69-198e
20)	Sample	10	080220	VM042423	0.02 ppb 8260 ICAL 69-198f
21)	Sample	11	080221	VM042423	0.04 ppb 8260 ICAL 69-198g
22)	Sample	12	080222	VM042423	0.1 ppb 8260 ICAL 69-198h
23)	Sample	13	080223	VM042423	0.2 ppb 8260 ICAL 69-198i
24)	Sample	14	080224	VM042423	0.5 ppb 8260 ICAL 69-198j
25)	Sample	15	080225	VM042423	1 ppb 8260 ICAL 69-198k
26)	Sample	16	080226	VM042423	2 ppb 8260 ICAL 69-198l
27)	Sample	17	080227	VM042423	5 ppb 8260 ICAL 69-198m
28)	Sample	18	080228	VM042423	10 ppb 8260 ICAL 69-198n
29)	Sample	19	080229	VM042423	20 ppb 8260 ICAL 69-198o
30)	Sample	20	080230	VM042423	50 ppb 8260 ICAL 69-198q
31)	Sample	21	080231	VM042423	100 ppb 8260 ICAL 69-198s
32)	Sample	22	080232	VM042423	150 ppb 8260 ICAL 69-198t
33)	Sample	23	080233	VM042423	200 ppb 8260 ICAL 69-198u
34)	Sample	24	080234	VM042423	rinse vial
35)	Sample	25	080235	VM042423	10 ppb 8260 SCV 69-195c
36)	Sample	100	080236	VM042423	rinse
37)	Sample	100	080237	VM042423	rinse

on seq page  
 no vial 6 (03-1796 mg 1/015)  
 AWB 8/3

## Injection Log

Data Directory: D:\Proc\_GCMS11\08-02-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 080201.D rinse	VM042423.M	100	1.000	02 Aug 2023 07:31 am
2) 080202.D rinse	VM042423.M	100	1.000	02 Aug 2023 07:53 am
3) 080203.D 10 ppb 8260 CCV 69.. soil/water	VM042423.M	1	1.000	02 Aug 2023 08:16 am
4) 080204.D 10 ppb 8260 CCV 69.. soil/water	VM042423.M	2	1.000	02 Aug 2023 08:39 am
5) 080205.D 03-1797 lcs	VM042423.M water	3	1.000	02 Aug 2023 09:01 am
6) 080206.D 03-1797 lcsd	VM042423.M water	4	1.000	02 Aug 2023 09:24 am
7) 080207.D rinse	VM042423.M soil/water	100	1.000	02 Aug 2023 09:46 am
8) 080208.D 03-1797 mb	VM042423.M water	5	1.000	02 Aug 2023 10:08 am
9) 080209.D rinse	VM042423.M	100	1.000	02 Aug 2023 11:10 am
10) 080210.D 10 ppb 8260 CCV 69.. soil/water	VM042423.M	6	1.000	02 Aug 2023 11:33 am
11) 080211.D 10 ppb 8260 CCV 69.. soil	VM042423.M	7	1.000	02 Aug 2023 12:24 pm
12) 080212.D rinse	VM042423.M	100	1.000	02 Aug 2023 01:27 pm
13) 080213.D 50 ng BFB 69-21	VM042423.M direct inj	100	1.000	02 Aug 2023 01:54 pm
14) 080214.D rinse	VM042423.M	100	1.000	02 Aug 2023 02:43 pm
15) 080215.D rinse	VM042423.M	100	1.000	02 Aug 2023 03:06 pm
16) 080216.D rinse	VM042423.M	100	1.000	02 Aug 2023 03:28 pm
17) 080217.D rinse	VM042423.M	100	1.000	02 Aug 2023 03:50 pm
18) 080218.D rinse	VM042423.M	100	1.000	02 Aug 2023 04:12 pm
19) 080219.D 0.01 ppb 8260 ICAL.. soil/water	VM042423.M	9	1.000	02 Aug 2023 04:35 pm
20) 080220.D 0.02 ppb 8260 ICAL.. soil/water	VM042423.M	10	1.000	02 Aug 2023 04:57 pm
21) 080221.D	VM042423.M			

0.04 ppb 8260 ICAL.. soil/water	30	11	1.000	02 Aug 2023	05:20 pm
22) 080222.D VM042423.M					
0.1 ppb 8260 ICAL .. soil/water		12	1.000	02 Aug 2023	05:42 pm
23) 080223.D VM042423.M					
0.2 ppb 8260 ICAL .. soil/water		13	1.000	02 Aug 2023	06:05 pm
24) 080224.D VM042423.M					
0.5 ppb 8260 ICAL .. soil/water		14	1.000	02 Aug 2023	06:27 pm
25) 080225.D VM042423.M					
1 ppb 8260 ICAL 69.. soil/water		15	1.000	02 Aug 2023	06:50 pm
26) 080226.D VM042423.M					
2 ppb 8260 ICAL 69.. soil/water		16	1.000	02 Aug 2023	07:13 pm
27) 080227.D VM042423.M					
5 ppb 8260 ICAL 69.. soil/water		17	1.000	02 Aug 2023	07:35 pm
28) 080228.D VM042423.M					
10 ppb 8260 ICAL 6.. soil/water		18	1.000	02 Aug 2023	07:58 pm
29) 080229.D VM042423.M					
20 ppb 8260 ICAL 6.. soil/water		19	1.000	02 Aug 2023	08:20 pm
30) 080230.D VM042423.M					
50 ppb 8260 ICAL 6.. soil/water		20	1.000	02 Aug 2023	08:43 pm
31) 080231.D VM042423.M					
100 ppb 8260 ICAL .. soil/water		21	1.000	02 Aug 2023	09:05 pm
32) 080232.D VM042423.M					
150 ppb 8260 ICAL .. soil/water		22	1.000	02 Aug 2023	09:28 pm
33) 080233.D VM042423.M					
200 ppb 8260 ICAL .. soil/water		23	1.000	02 Aug 2023	09:51 pm
34) 080234.D VM042423.M					
rinse vial		24	1.000	02 Aug 2023	10:13 pm
35) 080235.D VM042423.M					
10 ppb 8260 SCV 69..		25	1.000	02 Aug 2023	10:36 pm
36) 080236.D VM042423.M					
rinse		100	1.000	02 Aug 2023	10:58 pm
37) 080237.D VM042423.M					
rinse		100	1.000	02 Aug 2023	11:20 pm

Comment:

Operator: MD

*AMB 8110*

Data Path: D:\GCMS11\GCMS11\_Data\08-09-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	080901	VM042423	rinse
2)	Sample	100	080902	VM042423	rinse
3)	Sample	1	080903	VM042423	10 ppb 8260 CCV 70-18N
4)	Sample	2	080904	VM042423	03-1812 lcs
5)	Sample	100	080905	VM042423	rinse
6)	Sample	100	080906	VM042423	rinse
7)	Sample	100	080907	VM042423	rinse
8)	Sample	3	080908	VM042423	03-1812 mb
9)	Sample	4	080909	VM042423	03-1812 mb 1/0.5
10)	Sample	5	080910	VM042423	308140-01 1/0.5
11)	Sample	6	080911	VM042423	308140-02 1/0.5
12)	Sample	7	080912	VM042423	308140-01 rr
13)	Sample	8	080913	VM042423	308140-01 ms
14)	Sample	9	080914	VM042423	308140-01 msd
15)	Sample	100	080915	VM042423	rinse
16)	Sample	100	080916	VM042423	rinse
17)	Sample	100	080917	VM042423	rinse
18)	Sample	100	080918	VM042423	rinse
19)	Sample	10	080919	VM042423	308148-06
20)	Sample	11	080920	VM042423	308148-03
21)	Sample	12	080921	VM042423	308148-02
22)	Sample	13	080922	VM042423	308148-05
23)	Sample	14	080923	VM042423	308148-04
24)	Sample	15	080924	VM042423	308148-01 1/100
25)	Sample	100	080925	VM042423	rinse
26)	Sample	16	080926	VM042423	308141-02
27)	Sample	100	080927	VM042423	rinse
28)	Sample	100	080928	VM042423	rinse
29)	Sample	100	080929	VM042423	rinse
30)	Sample	17	080930	VM042423	308064-02 1/0.5 rr
31)	Sample	18	080931	VM042423	308064-05 1/0.5 rr
32)	Sample	19	080932	VM042423	308064-13 1/0.5 rr
33)	Sample	20	080933	VM042423	10 ppb 8260 CCV 70-18N
34)	Sample	100	080934	VM042423	rinse
35)	Sample	100	080935	VM042423	rinse
36)	Sample	21	080936	VM042423	308141-03
37)	Sample	22	080937	VM042423	308141-04
38)	Sample	23	080938	VM042423	308141-05
39)	Sample	24	080939	VM042423	308141-06
40)	Sample	25	080940	VM042423	308113-11
41)	Sample	100	080941	VM042423	rinse

## Injection Log

Data Directory: Y:\Proc\_GCMS11\08-09-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 080901.D rinse	VM042423.M	100	1.000	09 Aug 2023 06:22 am
2) 080902.D rinse	VM042423.M	100	1.000	09 Aug 2023 06:44 am
3) 080903.D 10 ppb 8260 CCV 70..	soil/water VM042423.M	1	1.000	09 Aug 2023 07:07 am
4) 080904.D 03-1812 lcs	soil VM042423.M	2	1.000	09 Aug 2023 07:29 am
5) 080905.D rinse	soil VM042423.M	100	1.000	09 Aug 2023 07:52 am
6) 080906.D rinse	soil VM042423.M	100	1.000	09 Aug 2023 08:14 am
7) 080907.D rinse	soil VM042423.M	100	1.000	09 Aug 2023 08:36 am
8) 080908.D 03-1812 mb	soil VM042423.M	3	1.000	09 Aug 2023 08:58 am
9) 080909.D 03-1812 mb 1/0.5	soil VM042423.M	4	1.000	09 Aug 2023 09:21 am
10) 080910.D 308140-01 1/0.5	soil VM042423.M	5	1.000	09 Aug 2023 09:59 am
11) 080911.D 308140-02 1/0.5	soil VM042423.M	6	1.000	09 Aug 2023 10:21 am
12) 080912.D 308140-01 rr	soil VM042423.M	7	1.000	09 Aug 2023 10:44 am
13) 080913.D 308140-01 ms	soil VM042423.M	8	1.000	09 Aug 2023 11:06 am
14) 080914.D 308140-01 msd	soil VM042423.M	9	1.000	09 Aug 2023 11:29 am
15) 080915.D rinse	soil VM042423.M	100	1.000	09 Aug 2023 11:51 am
16) 080916.D rinse	soil VM042423.M	100	1.000	09 Aug 2023 12:13 pm
17) 080917.D rinse	soil VM042423.M	100	1.000	09 Aug 2023 12:36 pm
18) 080918.D rinse	soil VM042423.M	100	1.000	09 Aug 2023 12:58 pm
19) 080919.D 308148-06	water VM042423.M	10	1.000	09 Aug 2023 01:21 pm
20) 080920.D 308148-03	water VM042423.M	11	1.000	09 Aug 2023 01:43 pm
21) 080921.D	VM042423.M			

308148-02	water	VM042423.M	12	1.000	09 Aug 2023	02:06 pm
22) 080922.D		VM042423.M				
308148-05	water		13	1.000	09 Aug 2023	02:29 pm
23) 080923.D		VM042423.M				
308148-04	water		14	1.000	09 Aug 2023	02:51 pm
24) 080924.D		VM042423.M				
308148-01 1/100	water		15	1.000	09 Aug 2023	03:14 pm
25) 080925.D		VM042423.M				
rinse	water		100	1.000	09 Aug 2023	03:36 pm
26) 080926.D		VM042423.M				
308141-02	water		16	1.000	09 Aug 2023	03:58 pm
27) 080927.D		VM042423.M				
rinse	water		100	1.000	09 Aug 2023	04:20 pm
28) 080928.D		VM042423.M				
rinse	water		100	1.000	09 Aug 2023	04:42 pm
29) 080929.D		VM042423.M				
rinse	water		100	1.000	09 Aug 2023	05:04 pm
30) 080930.D		VM042423.M				
308064-02 1/0.5 rr	soil		17	1.000	09 Aug 2023	05:27 pm
31) 080931.D		VM042423.M				
308064-05 1/0.5 rr	soil		18	1.000	09 Aug 2023	05:49 pm
32) 080932.D		VM042423.M				
308064-13 1/0.5 rr	soil		19	1.000	09 Aug 2023	06:12 pm
33) 080933.D		VM042423.M				
10 ppb 8260 CCV 70..	soil/water		20	1.000	09 Aug 2023	06:35 pm
34) 080934.D		VM042423.M				
rinse	water		100	1.000	09 Aug 2023	06:57 pm
35) 080935.D		VM042423.M				
rinse	water		100	1.000	09 Aug 2023	07:19 pm
36) 080936.D		VM042423.M				
308141-03	water		21	1.000	09 Aug 2023	07:42 pm
37) 080937.D		VM042423.M				
308141-04	water		22	1.000	09 Aug 2023	08:04 pm
38) 080938.D		VM042423.M				
308141-05	water		23	1.000	09 Aug 2023	08:27 pm
39) 080939.D		VM042423.M				
308141-06	water		24	1.000	09 Aug 2023	08:49 pm
40) 080940.D		VM042423.M				
308113-11	water		25	1.000	09 Aug 2023	09:12 pm
41) 080941.D		VM042423.M				
rinse	water		100	1.000	09 Aug 2023	09:34 pm



Sequence Name: D:\GCMS13\sequence\08-09-23.sequence.xml

Comment:

Operator: MD

*AUG 8/10*

Data Path: D:\GCMS13\GCMS13\_Data\08-09-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	080901	VM040623	rinse
2)	Sample	100	080902	VM040623	rinse
3)	Sample	1	080903	VM040623	10 ppb 8260 CCV 70-18N
4)	Sample	2	080904	VM040623	03-1811 lcs
5)	Sample	3	080905	VM040623	03-1811 lcsd
6)	Sample	100	080906	VM040623	rinse
7)	Sample	4	080907	VM040623	03-1811 mb
8)	Sample	5	080908	VM040623	03-1810 mb 1/0.5
9)	Sample	6	080909	VM040623	308091-22 1/0.5
10)	Sample	7	080910	VM040623	308091-23 1/0.5
11)	Sample	8	080911	VM040623	308091-24 1/0.5
12)	Sample	9	080912	VM040623	308091-25 1/0.5
13)	Sample	10	080913	VM040623	308091-26 1/0.5
14)	Sample	11	080914	VM040623	308091-27 1/0.5
15)	Sample	12	080915	VM040623	308091-28 1/0.5
16)	Sample	13	080916	VM040623	308091-29 1/0.5
17)	Sample	14	080917	VM040623	308091-30 1/0.5
18)	Sample	15	080918	VM040623	308091-31 1/0.5
19)	Sample	16	080919	VM040623	308091-32 1/0.5
20)	Sample	17	080920	VM040623	308091-33 1/0.5
21)	Sample	18	080921	VM040623	308091-33 1/0.5 rr
22)	Sample	19	080922	VM040623	308091-34 1/0.5
23)	Sample	20	080923	VM040623	308091-35 1/0.5
24)	Sample	21	080924	VM040623	308091-36 1/0.5
25)	Sample	22	080925	VM040623	308091-37 1/0.5
26)	Sample	23	080926	VM040623	308091-38 1/0.5
27)	Sample	24	080927	VM040623	308091-39 1/0.5
28)	Sample	25	080928	VM040623	308141-01
29)	Sample	26	080929	VM040623	308141-01 ms
30)	Sample	100	080930	VM040623	rinse

## Injection Log

Data Directory: Y:\Proc\_GCMS13\08-09-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 080901.D rinse	VM040623.M	100	1.000	09 Aug 2023 06:12 am
2) 080902.D rinse	VM040623.M	100	1.000	09 Aug 2023 06:35 am
3) 080903.D 10 ppb 8260 CCV 70..	soil/water VM040623.M	1	1.000	09 Aug 2023 06:58 am
4) 080904.D 03-1811 lcs	water VM040623.M	2	1.000	09 Aug 2023 07:21 am
5) 080905.D 03-1811 lcsd	water VM040623.M	3	1.000	09 Aug 2023 07:45 am
6) 080906.D rinse	VM040623.M	100	1.000	09 Aug 2023 08:08 am
7) 080907.D 03-1811 mb	water VM040623.M	4	1.000	09 Aug 2023 08:31 am
8) 080908.D 03-1810 mb 1/0.5	soil VM040623.M	5	1.000	09 Aug 2023 08:55 am
9) 080909.D 308091-22 1/0.5	soil VM040623.M	6	1.000	09 Aug 2023 10:29 am
10) 080910.D 308091-23 1/0.5	soil VM040623.M	7	1.000	09 Aug 2023 10:52 am
11) 080911.D 308091-24 1/0.5	soil VM040623.M	8	1.000	09 Aug 2023 11:16 am
12) 080912.D 308091-25 1/0.5	soil VM040623.M	9	1.000	09 Aug 2023 11:39 am
13) 080913.D 308091-26 1/0.5	soil VM040623.M	10	1.000	09 Aug 2023 12:02 pm
14) 080914.D 308091-27 1/0.5	soil VM040623.M	11	1.000	09 Aug 2023 12:26 pm
15) 080915.D 308091-28 1/0.5	soil VM040623.M	12	1.000	09 Aug 2023 12:49 pm
16) 080916.D 308091-29 1/0.5	soil VM040623.M	13	1.000	09 Aug 2023 01:12 pm
17) 080917.D 308091-30 1/0.5	soil VM040623.M	14	1.000	09 Aug 2023 01:35 pm
18) 080918.D 308091-31 1/0.5	soil VM040623.M	15	1.000	09 Aug 2023 01:59 pm
19) 080919.D 308091-32 1/0.5	soil VM040623.M	16	1.000	09 Aug 2023 02:22 pm
20) 080920.D 308091-33 1/0.5	soil VM040623.M	17	1.000	09 Aug 2023 02:53 pm
21) 080921.D	VM040623.M			

308091-33	1/0.5 rr	soil	18	1.000	09 Aug 2023	03:16 pm
22)	080922.D	VM040623.M				
308091-34	1/0.5	soil	19	1.000	09 Aug 2023	03:40 pm
23)	080923.D	VM040623.M				
308091-35	1/0.5	soil	20	1.000	09 Aug 2023	04:03 pm
24)	080924.D	VM040623.M				
308091-36	1/0.5	soil	21	1.000	09 Aug 2023	04:26 pm
25)	080925.D	VM040623.M				
308091-37	1/0.5	soil	22	1.000	09 Aug 2023	04:50 pm
26)	080926.D	VM040623.M				
308091-38	1/0.5	soil	23	1.000	09 Aug 2023	05:13 pm
27)	080927.D	VM040623.M				
308091-39	1/0.5	soil	24	1.000	09 Aug 2023	05:37 pm
28)	080928.D	VM040623.M				
308141-01		water	25	1.000	09 Aug 2023	06:00 pm
29)	080929.D	VM040623.M				
308141-01	ms	water	26	1.000	09 Aug 2023	06:23 pm
30)	080930.D	VM040623.M				
rinse		water	100	1.000	09 Aug 2023	06:46 pm

# EPA 8260D

## Checklists

# GC/MS ICAL Checklist

Instrument: GC/MS 13

Sequence Date: 7.28.23

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓	7/29
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes:

Attach this sheet to raw data package.

YA 07/31/21

Supervisor Initials and Date

# GC/MS ICAL Checklist

Instrument: GC/MS 11

Sequence Date: 08/02/23

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	Jm	08/03/23
2 <sup>nd</sup> source passed	J	J
Analyte retention time checked	J	J
Tune passed	J	J
Non-Conformance Report filled out (if needed)	J	J

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

Attach this sheet to raw data package.

YA 08/03/23  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 8.9.23

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓ <i>MS</i>	8/10
Internal Standards within limits (50-200% of the CCVs)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	<i>aced MSKD</i>	
Non-Conformance Report filled out (if needed)		

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

Attach this sheet to raw data package.

YA 08/11/23  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 13

Sequence Date: 8.9.23

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓ M	8/10
Internal Standards within limits (50-200% of the CCVs)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	2,2-dichloro	
Non-Conformance Report filled out (if needed)	1	

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

Attach this sheet to raw data package.

YA 08/11/23  
Supervisor Initials and Date



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

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\07-28-23\072829.D

Tune Time : 28 Jul 2023 06:14 pm

Daily Calibration File : Y:\Proc\_GCMS13\07-28-23\072845.D

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

95959 72838 36121

File	Sample	Surrogate Recovery %				Internal Standard Responses		
072836.D	0.01 ppb 8	91	91	89	101	117316	78480	37244
072837.D	0.02 ppb 8	101	103	102	98	103848	79424	37411
072838.D	0.04 ppb 8	98	101	99	102	106121	79209	36554
072839.D	0.1 ppb 82	102	100	99	104	105154	79313	36878
072840.D	0.2 ppb 82	103	104	101	101	105364	79174	36712
072841.D	0.5 ppb 82	102	97	100	99	102881	77973	36990
072842.D	1 ppb 8260	92	87	90	99	112825	78090	37483
072843.D	2 ppb 8260	100	102	101	103	101892	77698	36400
072844.D	5 ppb 8260	101	103	101	100	100020	74975	37029
072845.D	10 ppb 826	103	106	102	98	95959	72838	36121
072846.D	20 ppb 826	101	109	103	97	94770	71267	36487
072847.D	50 ppb 826	103	98	104	100	92141	71248	36130
072848.D	100 ppb 82	99	102	104	99	91235	71914	36683
072849.D	150 ppb 82	102	97	102	99	93669	74153	37105
072850.D	200 ppb 82	102	101	104	98	93512	75125	37469
072852.D	10 ppb 826	102	95	102	97	101222	75344	38427

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

Created: Sat Jul 29 10:05:26 2023 GCMS13

## GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS11\08-02-23\080213.D

Tune Time : 02 Aug 2023 01:54 pm

Daily Calibration File : D:\Proc\_GCMS11\08-02-23\080228.D

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

243405

194160

115138

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
080219.D	0.01 ppb 8	104	104	99	101	249348 202438 116929
080220.D	0.02 ppb 8	101	101	100	99	253557 201769 116321
080221.D	0.04 ppb 8	90	89	91	99	275148 200985 119916
080222.D	0.1 ppb 82	100	100	101	100	256552 205165 117936
080223.D	0.2 ppb 82	99	96	99	101	254051 200471 114532
080224.D	0.5 ppb 82	101	107	101	102	248855 200766 116291
080225.D	1 ppb 8260	101	102	100	102	249516 199911 115620
080226.D	2 ppb 8260	103	103	98	98	246589 189172 111024
080227.D	5 ppb 8260	106	100	103	101	237817 190012 112030
080228.D	10 ppb 826	100	97	99	97	243405 194160 115138
080229.D	20 ppb 826	103	108	102	96	240336 194192 113999
080230.D	50 ppb 826	101	102	103	100	239696 195661 112061
080231.D	100 ppb 82	104	100	106	100	234777 195313 111715
080232.D	150 ppb 82	92	99	100	103	241490 198094 108688
080233.D	200 ppb 82	95	93	99	101	247763 196456 111724
080235.D	10 ppb 826	99	103	103	100	237756 194361 111755

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

Created: Thu Aug 03 10:38:22 2023 GCMS11

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\08-09-23\080903.D

Tune Time : 09 Aug 2023 07:07 am

Daily Calibration File : Y:\Proc\_GCMS11\08-09-23\080903.D

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

239676 191861 113393

File	Sample	Surrogate Recovery %				Internal Standard Responses		
080904.D	03-1812 lc	100	107	101	101	242987	195601	114233
080908.D	03-1812 mb	98	105	100	105	252737	201519	114334
080909.D	03-1812 mb	98	98	98	104	256510	203210	116334
080910.D	308140-01	94	89	94	105	270653	209885	117875
080911.D	308140-02	98	106	99	106	252249	202973	115156
080912.D	308140-01	105	107	100	101	247960	196776	115594
080913.D	308140-01	99	106	103	96	240939	191771	117431
080914.D	308140-01	103	100	103	103	244578	197485	113959
080919.D	308148-06	100	104	101	106	251362	205360	116351
080920.D	308148-03	100	108	96	96	253755	206129	118357
080921.D	308148-02	104	103	100	103	245731	198358	116353
080922.D	308148-05	104	108	98	104	251658	197292	113126
080923.D	308148-04	99	98	99	104	253440	199980	116046
080924.D	308148-01	101	104	98	99	252203	194290	115157
080926.D	308141-02	102	104	100	106	249916	195601	116755
080930.D	308064-02	100	106	99	100	248171	199869	114129
080931.D	308064-05	100	100	101	103	246556	205674	113885
080932.D	308064-13	99	111	103	103	243861	201933	113548

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

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\08-09-23\080903.D

Tune Time : 09 Aug 2023 06:58 am

Daily Calibration File : Y:\Proc\_GCMS13\08-09-23\080903.D

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

79716 63853 32246

File	Sample	Surrogate Recovery %				Internal Standard Responses		
080904.D	03-1811 lc	105	99	101	94	77888	61051	31185
080905.D	03-1811 lc	111	109	104	94	75232	59557	31225
080907.D	03-1811 mb	97	98	94	93	85622	61218	30538
080908.D	03-1810 mb	108	105	104	93	77333	62189	30631
080909.D	308091-22	101	100	99	100	89319	66582	32057
080910.D	308091-23	93	91	91	98	91275	64525	32041
080911.D	308091-24	97	96	95	101	87718	64304	31895
080912.D	308091-25	106	102	101	97	82787	66062	33150
080913.D	308091-26	100	99	101	102	83112	65907	31491
080914.D	308091-27	104	105	102	95	81554	63918	32514
080915.D	308091-28	104	105	100	96	82770	63704	32611
080916.D	308091-29	104	105	100	103	84090	66043	31268
080917.D	308091-30	97	108	103	96	83800	65505	32928
080918.D	308091-31	99	94	100	97	82643	64874	33010
080919.D	308091-32	101	103	98	96	85501	65109	33028
080921.D	308091-33	105	105	102	95	81601	65568	33393
080922.D	308091-34	107	101	100	97	83550	65382	32713
080923.D	308091-35	102	98	99	99	84945	65886	32395
080924.D	308091-36	104	101	101	93	81195	64482	32945

080925.D	308091-37	103	103	102	92	83200	64656	33642
080926.D	308091-38	106	111	103	96	80941	64515	32232
080927.D	308091-39	93	94	93	96	90760	65204	31648
080928.D	308141-01	104	109	100	98	82259	62681	30353
080929.D	308141-01	107	105	102	98	77977	61070	31025

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

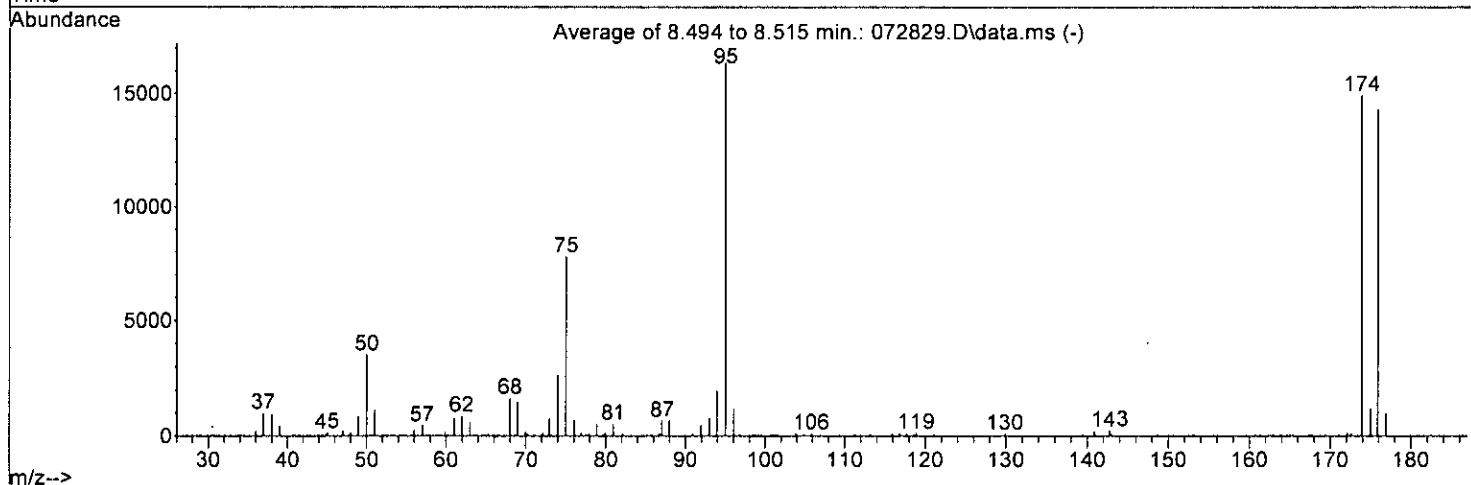
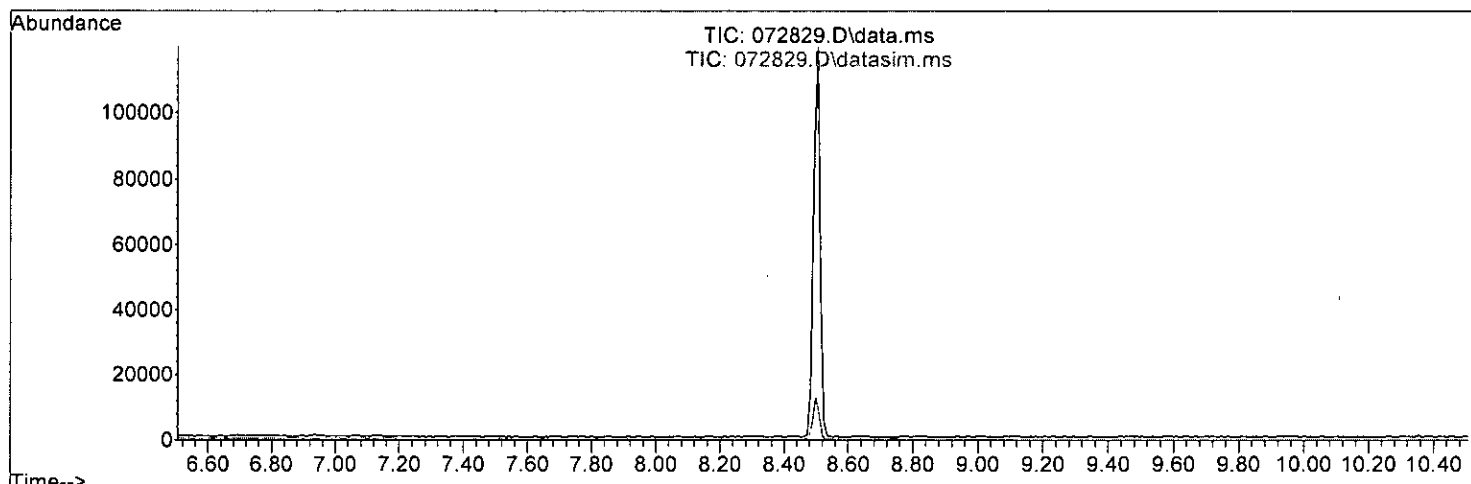
Created: Thu Aug 10 08:08:08 2023 GCMS13

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072829.D  
 Acq On : 28 Jul 2023 06:14 pm  
 Operator : MD  
 Sample : 50 ng BFB 69-21a  
 Misc : direct inj  
 ALS Vial : 22 Sample Multiplier: 1

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

Method : Y:\Methods\Inst13\072723vms13LL.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition LL  
 Last Update : Fri Jul 28 09:17:36 2023



AutoFind: Scans 689, 690, 691; Background Corrected with Scan 684

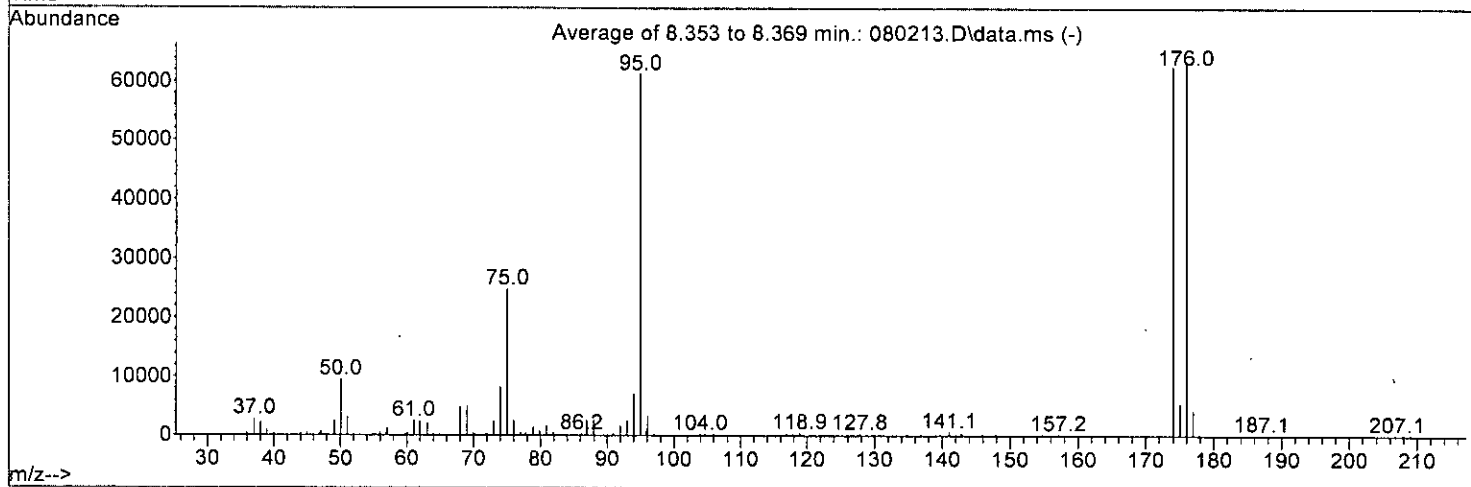
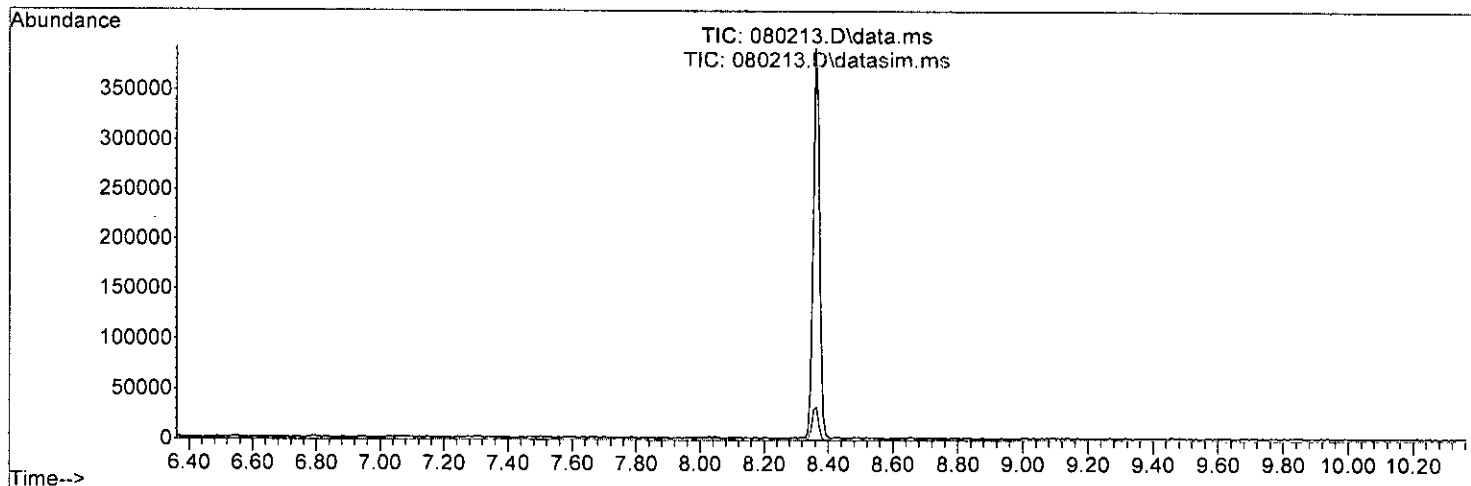
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	109.7	16352	PASS
96	95	5	9	7.0	1151	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	91.1	14900	PASS
175	174	5	9	7.9	1178	PASS
176	174	95	105	95.7	14266	PASS
177	176	5	10	6.7	950	PASS



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080213.D  
 Acq On : 02 Aug 2023 01:54 pm  
 Operator : LM  
 Sample : 50 ng BFB 69-21  
 Misc : direct inj  
 ALS Vial : 100 Sample Multiplier: 1

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

Method : D:\Methods\Inst11\080223vms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Aug 03 10:33:12 2023



AutoFind: Scans 882, 883, 884; Background Corrected with Scan 876

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	97.9	61288	PASS
96	95	5	9	5.3	3226	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	102.1	62587	PASS
175	174	5	9	8.5	5296	PASS
176	174	95	105	101.0	63200	PASS
177	176	5	10	6.6	4148	PASS

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

Response Factor Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : 072823vms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response Via : Initial Calibration

Calibration Files  
 0.02=072837.D 0.04=072838.D 0.1=072839.D 0.2=072840.D 0.5=072841.D 1=072842.D 2=072843.D 5=072844.D 10=072845.D 20=072846.D  
 50=072847.D 100=072848.D 150=072849.D 200=072850.D 0.01=072836.D

Compound	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	0.01	Avg	%RSD
1) I Fluorobenzene																0.000#	-1.00
2) TMP Ethanol																0.271	3.70
3) 5 Dibromofluorom...	0.275	0.267	0.276	0.279	0.278	0.249	0.270	0.275	0.280	0.274	0.278	0.267	0.278	0.276	0.248	0.271	3.70
4) TMP Dichlorodifluo...																0.906	5.74
5) TMP Chloromethane																0.949	3.50
6) TMP Vinyl chloride	0.958	0.947	0.605	0.741	0.849	0.645	0.814	0.729	0.738	0.748	0.751	0.743	0.755			0.769	12.72
7) TMP Bromomethane																0.377	11.23
8) TMP Chloroethane																0.323	14.31
9) TMP Trichlorofluor...																1.197	7.85
10) TMP 2-Propanol																0.000	-1.00
11) TMP Acetone																0.040	6.55
12) TMP 1,1-Dichloroet...	0.337	0.342	0.281	0.263	0.396	0.236	0.281	0.270	0.279	0.272	0.271	0.268	0.273			0.288	14.42
13) TMP Hexane																0.394	5.77
14) TMP Methylene chlo...																0.244	7.84
15) TMP t-Butyl alcoho...																0.033	4.16
16) TMP Methyl t-butyl...	0.741	0.688	0.624	0.591	0.714	0.551	0.647	0.604	0.623	0.619	0.606	0.600	0.583	0.591		0.627	8.50
17) TMP trans-1,2-Dich...	0.351	0.332	0.299	0.283	0.364	0.233	0.282	0.257	0.267	0.261	0.260	0.252	0.251	0.255		0.282	14.25
18) TMP Diisopropyl et...																0.936	4.81
19) TMP 1,1-Dichloroet...	0.611	0.580	0.459	0.468	0.468	0.427	0.524	0.456	0.485	0.476	0.473	0.460	0.456	0.459		0.486	10.56
20) TMP Ethyl t-butyl ...																0.264	5.38
21) TMP 2,2-Dichloropr...																0.269	6.13
22) TMP cis-1,2-Dichlo...	0.380	0.342	0.269	0.276	0.280	0.254	0.309	0.271	0.286	0.281	0.280	0.271	0.271	0.272		0.289	11.69
23) TMP Chloroform																0.454	5.66
24) TMP 2-Butanone (MEK)																0.193	6.53
25) TMP t-Amyl methyl ...																0.594	5.19
26) TMP 1,2-Dichloroet...	0.857	0.792	0.460	0.418	0.411	0.375	0.449	0.389	0.405	0.394	0.389	0.378	0.374	0.375		0.462	33.85
27) TMP 1,1,1-Trichlor...	0.467	0.417	0.367	0.391	0.403	0.360	0.439	0.390	0.409	0.407	0.410	0.408	0.404	0.409		0.406	6.54
28) TMP 1,1-Dichloropr...																0.343	8.06
29) TMP Carbon tetrach...																0.354	6.70
30) 5 1,2-Dichloroet...	0.062	0.061	0.060	0.062	0.058	0.052	0.061	0.062	0.063	0.066	0.059	0.062	0.058	0.061	0.054	0.060	5.71
31) TMP Benzene	1.363	1.312	0.969	1.017	1.006	0.912	1.126	0.976	1.024	1.001	0.989	0.967	0.961	0.967	1.042	1.042	12.87
32) TMP Trichloroethene	0.510	0.417	0.301	0.293	0.319	0.270	0.344	0.302	0.312	0.304	0.300	0.297	0.291	0.301	0.326	0.326	19.46
33) TMP 1,2-Dichloropr...																0.269	6.41
34) TMP Bromodichlorom...																0.327	8.72
35) 5 Toluene-d8	1.133	1.098	1.096	1.118	1.113	1.004	1.120	1.117	1.129	1.144	1.156	1.154	1.139	1.152	0.994	1.111	4.42
36) TMP Dibromomethane																0.174	5.60
37) TMP 4-Methyl-2-pen...																0.056	4.32

Method Path : Y:\Methods\Inst13\

Method File : 072823vms13.M

Title : 8260 Purge &amp; Trap Volatiles Dual Acquisition

38) TMP cis-1,3-Dichloro...

0.425 0.423 0.371 0.456 0.409 0.450 0.450 0.475 0.484 0.494 0.506 0.449 8.98

39) I	Chlorobenzene-d5	1.511	1.461	1.044	1.058	1.041	1.019	1.123	0.998	1.043	1.040	1.018	0.991	0.976	0.970	1.092	15.70
40) TMP	Toluene	0.525	0.477	0.416	0.530	0.516	0.527	0.529	0.560	0.573	0.570	0.578	0.527	0.527	0.527	0.527	9.00
41) TMP	trans-1,3-Dichloro...	0.323	0.325	0.318	0.353	0.317	0.328	0.329	0.327	0.316	0.311	0.308	0.323	0.323	0.323	0.323	3.71
42) TMP	1,1,2-Trichloro...	0.468	0.433	0.460	0.436	0.453	0.465	0.465	0.468	0.444	0.439	0.442	0.451	0.451	0.451	0.451	3.01
43) TMP	2-Hexanone	0.491	0.620	0.587	0.669	0.564	0.569	0.571	0.576	0.555	0.546	0.541	0.572	0.572	0.572	0.572	7.91
44) TMP	1,3-Dichloropr...	0.417	0.410	0.404	0.453	0.395	0.413	0.409	0.402	0.390	0.384	0.387	0.446	0.446	0.446	0.446	23.47
45) TMP	Tetrachloroethene	0.392	0.427	0.417	0.422	0.419	0.424	0.443	0.457	0.457	0.458	0.464	0.434	0.434	0.434	0.434	5.26
46) TMP	Dibromochlorom...	0.414	0.419	0.407	0.456	0.413	0.429	0.437	0.434	0.420	0.416	0.415	0.803	0.469	0.469	0.469	23.41
47) TMP	1,2-Dibromoeth...	0.868	0.929	0.926	1.057	0.891	0.943	0.954	0.936	0.924	0.906	0.905	0.931	0.931	0.931	0.931	5.21
48) TMP	Chlorobenzene	2.115	2.052	1.463	1.497	1.521	1.504	1.707	1.518	1.586	1.594	1.565	1.496	1.466	1.438	1.609	13.22
49) TMP	Ethylbenzene	0.359	0.305	0.316	0.327	0.311	0.327	0.338	0.341	0.334	0.333	0.329	0.329	0.329	0.329	0.329	4.51
50) TMP	1,1,1,2-Tetrac...	0.840	0.800	0.576	0.582	0.596	0.586	0.664	0.597	0.622	0.625	0.612	0.585	0.571	0.564	0.630	13.50
51) TMP	m,p-Xylene	0.768	0.754	0.551	0.564	0.572	0.566	0.642	0.573	0.597	0.602	0.597	0.576	0.564	0.560	0.606	11.51
52) TMP	o-Xylene	0.950	0.878	0.788	0.972	0.887	0.915	0.932	0.942	0.914	0.902	0.892	0.906	0.906	0.906	0.906	5.37
53) TMP	Styrene	1.459	1.345	1.293	1.402	1.313	1.373	1.392	1.405	1.371	1.341	1.344	1.367	1.367	1.367	1.367	3.42
54) TMP	Isopropylbenzene	0.258	0.231	0.206	0.229	0.219	0.224	0.232	0.252	0.253	0.259	0.264	0.239	0.239	0.239	0.239	8.00
55) TMP	Bromoform																

56) I	1,4-Dichlorobenzen...	0.886	0.921	0.937	0.907	0.891	0.894	0.930	0.896	0.885	0.878	0.905	0.892	0.887	0.887	0.912	0.901	1.97
57) 5	4-Bromofluorob...	3.104	3.691	3.226	3.827	3.180	3.380	3.290	3.315	3.208	3.188	3.174	3.326	3.326	3.326	3.326	3.326	6.89
58) TMP	n-Propylbenzene	0.903	0.846	0.777	0.913	0.756	0.810	0.789	0.795	0.779	0.796	0.796	0.814	0.814	0.814	0.814	0.814	6.32
59) TMP	Bromobenzene	2.323	2.190	2.268	2.562	2.235	2.384	2.334	2.346	2.270	2.262	2.245	2.311	2.311	2.311	2.311	4.35	
60) TMP	1,3,5-Trimethy...	0.941	0.820	0.736	0.801	0.726	0.745	0.744	0.755	0.730	0.730	0.716	0.768	0.768	0.768	0.768	8.58	
61) TMP	1,1,2,2-Tetrac...	0.865	0.806	0.778	0.713	0.680	0.571	0.599	0.588	0.589	0.575	0.567	0.658	0.658	0.658	0.658	16.37	
62) TMP	1,2,3-Trichlor...	1.979	2.067	1.955	2.210	1.849	1.994	1.956	1.911	1.837	1.841	1.822	1.947	1.947	1.947	1.947	6.01	
63) TMP	2-Chlorotoluene	2.186	2.223	2.231	2.550	2.259	2.289	2.274	2.276	2.187	2.187	2.168	2.257	2.257	2.257	2.257	4.70	
64) TMP	4-Chlorotoluene	2.166	2.135	1.997	2.302	2.068	2.121	2.094	2.115	2.080	2.085	2.073	2.112	2.112	2.112	2.112	3.62	
65) TMP	tert-Butylbenzene	2.404	2.382	2.384	2.625	2.332	2.444	2.472	2.491	2.453	2.445	2.451	2.444	2.444	2.444	2.444	3.10	
66) TMP	1,2,4-Trimethy...	3.150	3.064	2.996	3.405	2.968	3.114	3.104	3.136	3.076	3.079	3.104	3.109	3.109	3.109	3.109	3.62	
67) TMP	sec-Butylbenzene	2.122	2.580	2.568	2.864	2.484	2.626	2.649	2.709	2.640	2.638	2.662	2.595	2.595	2.595	2.595	7.05	
68) TMP	p-Isopropyltol...	1.342	1.486	1.403	1.552	1.397	1.443	1.448	1.462	1.434	1.451	1.458	1.443	1.443	1.443	1.443	3.70	
69) TMP	1,3-Dichlorobe...	1.568	1.461	1.495	1.579	1.424	1.440	1.461	1.468	1.436	1.451	1.448	1.475	1.475	1.475	1.475	3.51	
70) TMP	1,4-Dichlorobe...	1.419	1.288	1.314	1.537	1.316	1.368	1.365	1.379	1.365	1.363	1.370	1.371	1.371	1.371	1.371	4.79	
71) TMP	1,2-Dichlorobe...	0.175	0.141	0.152	0.128	0.128	0.139	0.139	0.141	0.145	0.152	0.156	0.146	0.146	0.146	0.146	9.45	
72) TMP	1,2-Dibromo-3-...	0.919	0.887	0.760	0.924	0.835	0.874	0.895	0.921	0.962	0.982	1.026	0.908	0.908	0.908	0.908	7.94	
73) TMP	1,2,4-Trichlor...	0.410	0.530	0.485	0.504	0.475	0.494	0.475	0.494	0.485	0.500	0.523	0.489	0.489	0.489	0.489	6.44	
74) TMP	Hexachlorobuta...	2.183	2.122	1.903	1.827	2.173	1.940	2.006	2.073	2.243	2.347	2.394	2.138	2.138	2.138	2.138	9.21	
75) TMP	Naphthalene	0.799	0.770	0.717	0.902	0.760	0.800	0.798	0.848	0.864	0.900	0.923	0.826	0.826	0.826	0.826	8.05	
76) TMP	1,2,3-Trichlor...																	

(#)= Out of Range

Method Path : Y:\Methods\Inst13\  
 Method File : 072823vms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Fluorobenzene	96	4.73	1.000	A	1	A	B
2	T Ethanol	45	2.31	0.488	A	1	A	B
3	S Dibromofluoromethane	113	4.16	0.880	A	0	A	B
4	T Dichlorodifluoromethane	85	1.11	0.234	A	1	A	B
5	T Chloromethane	50	1.25	0.264	A	1	A	B
6	T Vinyl chloride	-62	1.32	0.278	A	1	A	B
7	T Bromomethane	94	1.57	0.331	A	1	A	B
8	T Chloroethane	-64	1.64	0.346	A	1	A	B
9	T Trichlorofluoromethane	101	1.84	0.388	A	1	A	B
10	T 2-Propanol	45	2.31	0.488	A	1	A	B
11	T Acetone	58	2.32	0.490	A	1	A	B
12	T 1,1-Dichloroethene	-96	2.26	0.478	L	2	A	B
13	T Hexane	57	3.15	0.665	A	2	A	B
14	T Methylene chloride	84	2.68	0.567	A	2	A	B
15	T t-Butyl alcohol (TBA)	59	2.81	0.593	A	1	A	B
16	T Methyl t-butyl ether (MTBE)	-73	2.92	0.618	A	1	A	B
17	T trans-1,2-Dichloroethene	-96	2.91	0.616	L	2	A	B
18	T Diisopropyl ether (DIPE)	45	3.34	0.706	A	3	A	B
19	T 1,1-Dichloroethane	-63	3.27	0.692	A	2	A	B
20	T Ethyl t-butyl ether (ETBE)	87	3.65	0.771	A	3	A	B
21	T 2,2-Dichloropropane	77	3.76	0.795	A	1	A	B
22	T cis-1,2-Dichloroethene	-96	3.76	0.794	A	2	A	B
23	T Chloroform	83	4.03	0.851	A	1	A	B
24	T 2-Butanone (MEK)	43	3.78	0.799	A	2	A	B
25	T t-Amyl methyl ether (TAME)	73	4.60	0.972	A	2	A	B
26	T 1,2-Dichloroethane (EDC)	-62	4.51	0.954	L	1	A	B
27	T 1,1,1-Trichloroethane	-97	4.19	0.885	A	2	A	B
28	T 1,1-Dichloropropene	75	4.32	0.913	A	2	A	B
29	T Carbon tetrachloride	117	4.32	0.913	A	1	A	B
30	S 1,2-Dichloroethane-d4	102	4.45	0.941	A	1	A	B
31	T Benzene	-78	4.49	0.949	L	1	A	B
32	T Trichloroethene	-95	5.04	1.065	L	3	A	B
33	T 1,2-Dichloropropane	63	5.23	1.105	A	1	A	B
34	T Bromodichloromethane	83	5.47	1.155	A	2	A	B
35	S Toluene-d8	98	6.10	1.289	A	1	A	B
36	T Dibromomethane	93	5.34	1.127	A	2	A	B
37	T 4-Methyl-2-pentanone	85	6.01	1.269	A	2	A	B
38	T cis-1,3-Dichloropropene	75	5.86	1.238	A	2	A	B
39	I Chlorobenzene-d5	117	7.40	1.000	A	1	A	B
40	T Toluene	-92	6.16	0.833	L	1	A	B
41	T trans-1,3-Dichloropropene	75	6.36	0.859	A	2	A	B
42	T 1,1,2-Trichloroethane	-83	6.51	0.880	A	2	A	B
43	T 2-Hexanone	43	6.76	0.914	A	3	A	B
44	T 1,3-Dichloropropane	76	6.67	0.901	A	1	A	B
45	T Tetrachloroethene	-164	6.64	0.898	L	3	A	B
46	T Dibromochloromethane	129	6.87	0.928	A	1	A	B
47	T 1,2-Dibromoethane (EDB)	-107	6.97	0.942	L	2	A	B
48	T Chlorobenzene	112	7.43	1.004	A	2	A	B
49	T Ethylbenzene	-91	7.54	1.019	L	1	A	B
50	T 1,1,1,2-Tetrachloroethane	131	7.50	1.014	A	2	A	B
51	T m,p-Xylene	-106	7.64	1.033	L	1	A	B
52	T o-Xylene	-106	8.01	1.083	L	1	A	B
53	T Styrene	104	8.03	1.085	A	1	A	B
54	T Isopropylbenzene	105	8.36	1.130	A	1	A	B
55	T Bromoform	173	8.19	1.108	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.62	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.50	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.76	0.911	A	1	A	B
59	T	Bromobenzene	156	8.65	0.899	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.93	0.928	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.65	0.899	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.69	0.903	A	3	A	B
63	T	2-Chlorotoluene	91	8.84	0.918	A	1	A	B
64	T	4-Chlorotoluene	91	8.94	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.25	0.961	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.29	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.45	0.983	A	1	A	B
68	T	p-Isopropyltoluene	119	9.61	0.999	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.55	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.64	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	10.00	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.77	1.120	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.59	1.205	A	2	A	B
74	T	Hexachlorobutadiene	225	11.77	1.223	A	2	A	B
75	T	Naphthalene	128	11.83	1.230	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	12.07	1.254	A	2	A	B

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

#Qual = number of qualifiers

A/H = Area or Height

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

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072823vms13.M Sat Jul 29 10:04:00 2023

Calibration Status Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : 072823vms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response Via : Initial Calibration

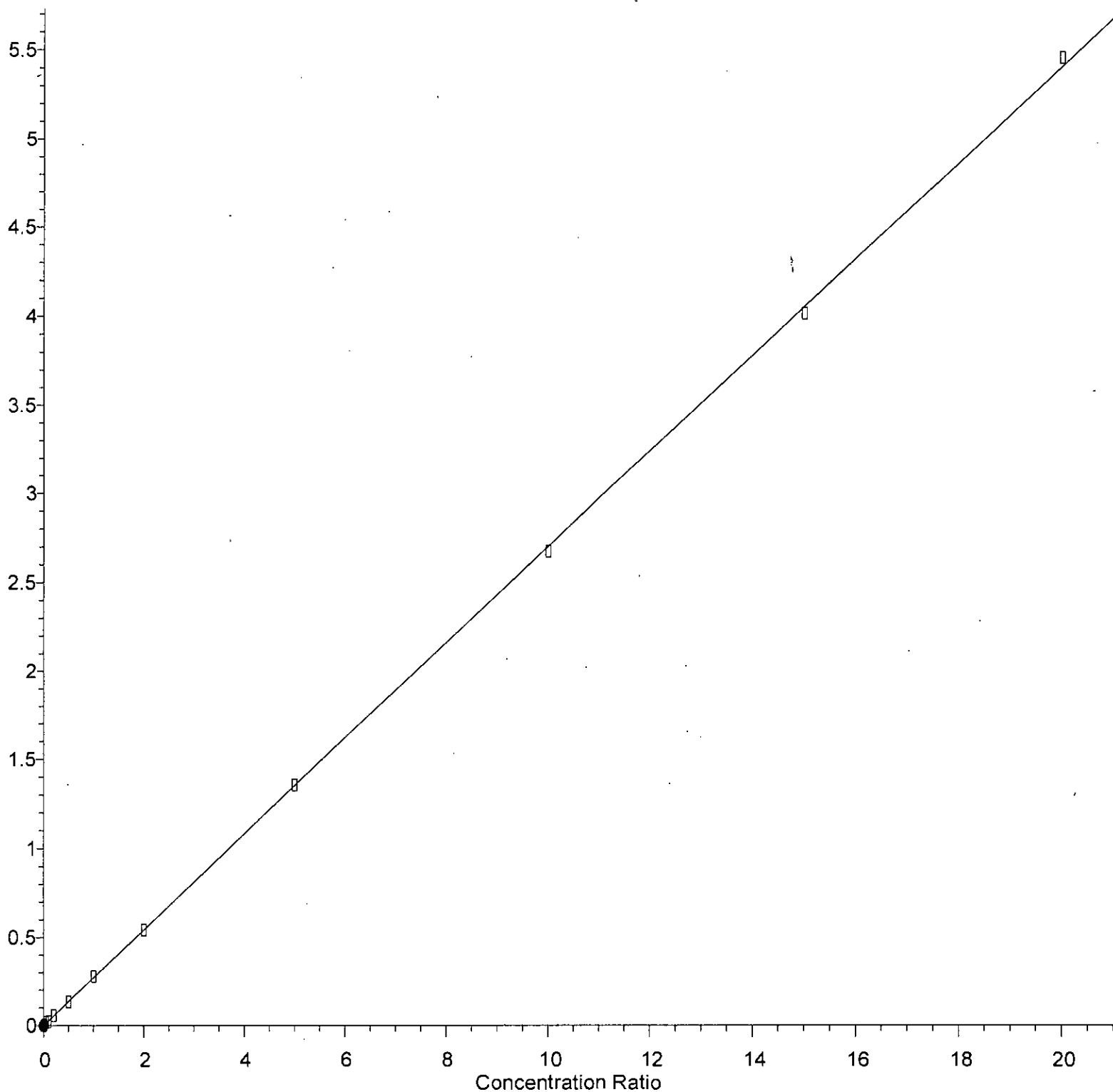
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2	0.04	0	10	Y:\Proc_GCMS13\07-28-23\072838.D
3	0.1	0	10	Y:\Proc_GCMS13\07-28-23\072839.D
4	0.2	0	10	Y:\Proc_GCMS13\07-28-23\072840.D
5	0.5	1	10	Y:\Proc_GCMS13\07-28-23\072841.D
6	1	1	10	Y:\Proc_GCMS13\07-28-23\072842.D
7	2	2	10	Y:\Proc_GCMS13\07-28-23\072843.D
8	5	5	10	Y:\Proc_GCMS13\07-28-23\072844.D
9	10	10	10	Y:\Proc_GCMS13\07-28-23\072845.D
10	20	20	10	Y:\Proc_GCMS13\07-28-23\072846.D
11	50	50	10	Y:\Proc_GCMS13\07-28-23\072847.D
12	100	100	10	Y:\Proc_GCMS13\07-28-23\072848.D
13	150	150	10	Y:\Proc_GCMS13\07-28-23\072849.D
14	200	200	10	Y:\Proc_GCMS13\07-28-23\072850.D
15	0.01	-1	10	Y:\Proc_GCMS13\07-28-23\072836.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Jul 29 09:10 2023	Jul 29 09:07 2023	28 Jul 2023 09:26 pm
2	0.04	Jul 29 09:10 2023	Jul 29 09:08 2023	28 Jul 2023 09:49 pm
3	0.1	Jul 29 09:10 2023	Jul 29 09:08 2023	28 Jul 2023 10:12 pm
4	0.2	Jul 29 09:10 2023	Jul 29 09:09 2023	28 Jul 2023 10:36 pm
5	0.5	Jul 29 09:10 2023	Jul 29 09:06 2023	28 Jul 2023 10:59 pm
6	1	Jul 29 09:10 2023	Jul 29 09:10 2023	28 Jul 2023 11:23 pm
7	2	Jul 29 09:10 2023	Jul 29 09:10 2023	28 Jul 2023 11:46 pm
8	5	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 12:09 am
9	10	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 12:32 am
10	20	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 12:55 am
11	50	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 01:19 am
12	100	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 01:42 am
13	150	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 02:05 am
14	200	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 02:28 am
15	0.01	Jul 29 09:10 2023	Jul 29 09:05 2023	28 Jul 2023 09:02 pm

072823vms13.M Sat Jul 29 10:04:07 2023

1,1-Dichloroethene

Response Ratio

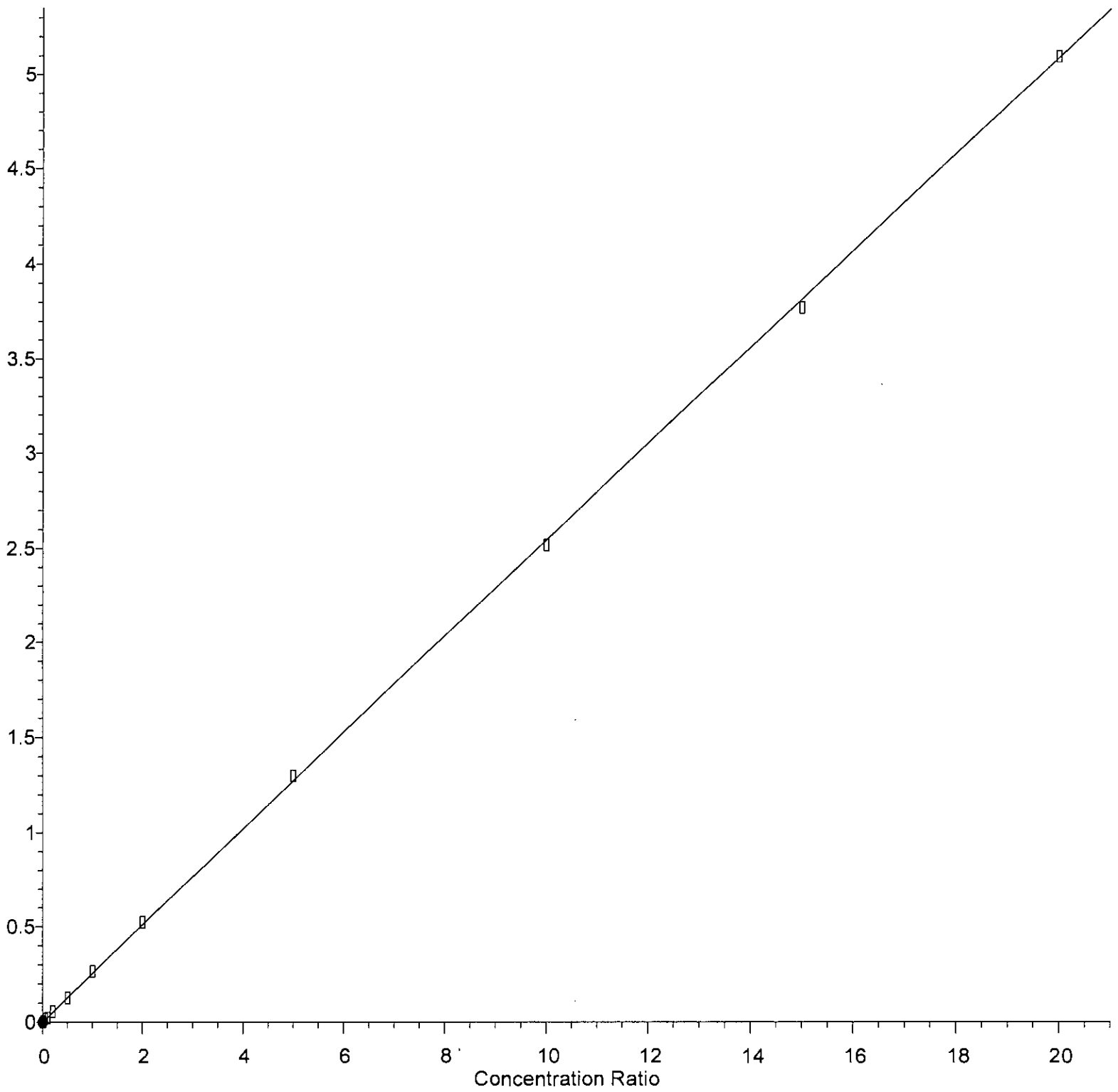


Response = 2.702e-001 \* Amt + 2.684e-004  
Coef of Det (r^2) = 0.999675 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023



trans-1,2-Dichloroethene

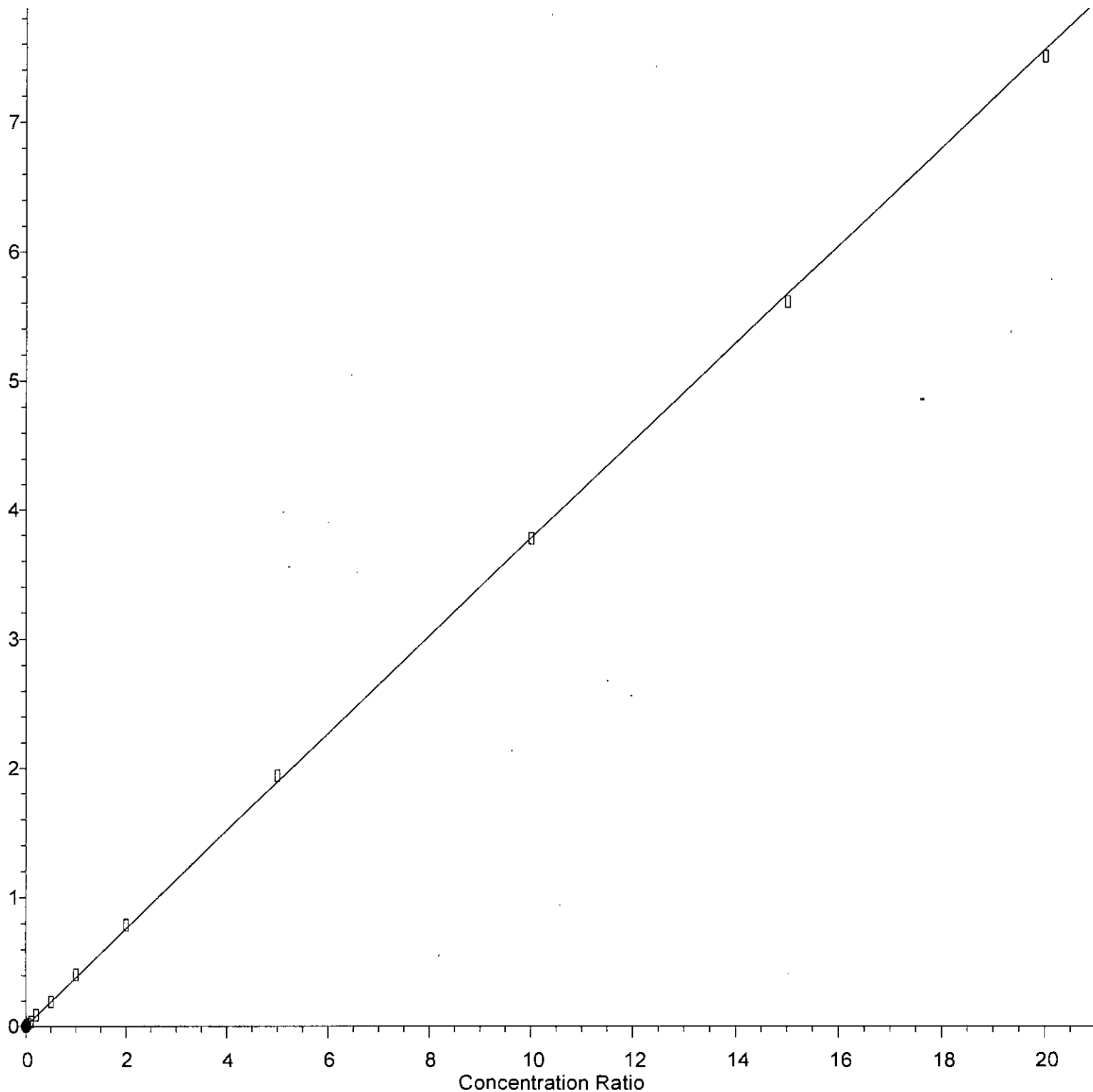
Response Ratio



Response = 2.544e-001 \* Amt + 4.115e-004  
Coef of Det (r^2) = 0.999619 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

1,2-Dichloroethane (EDC)

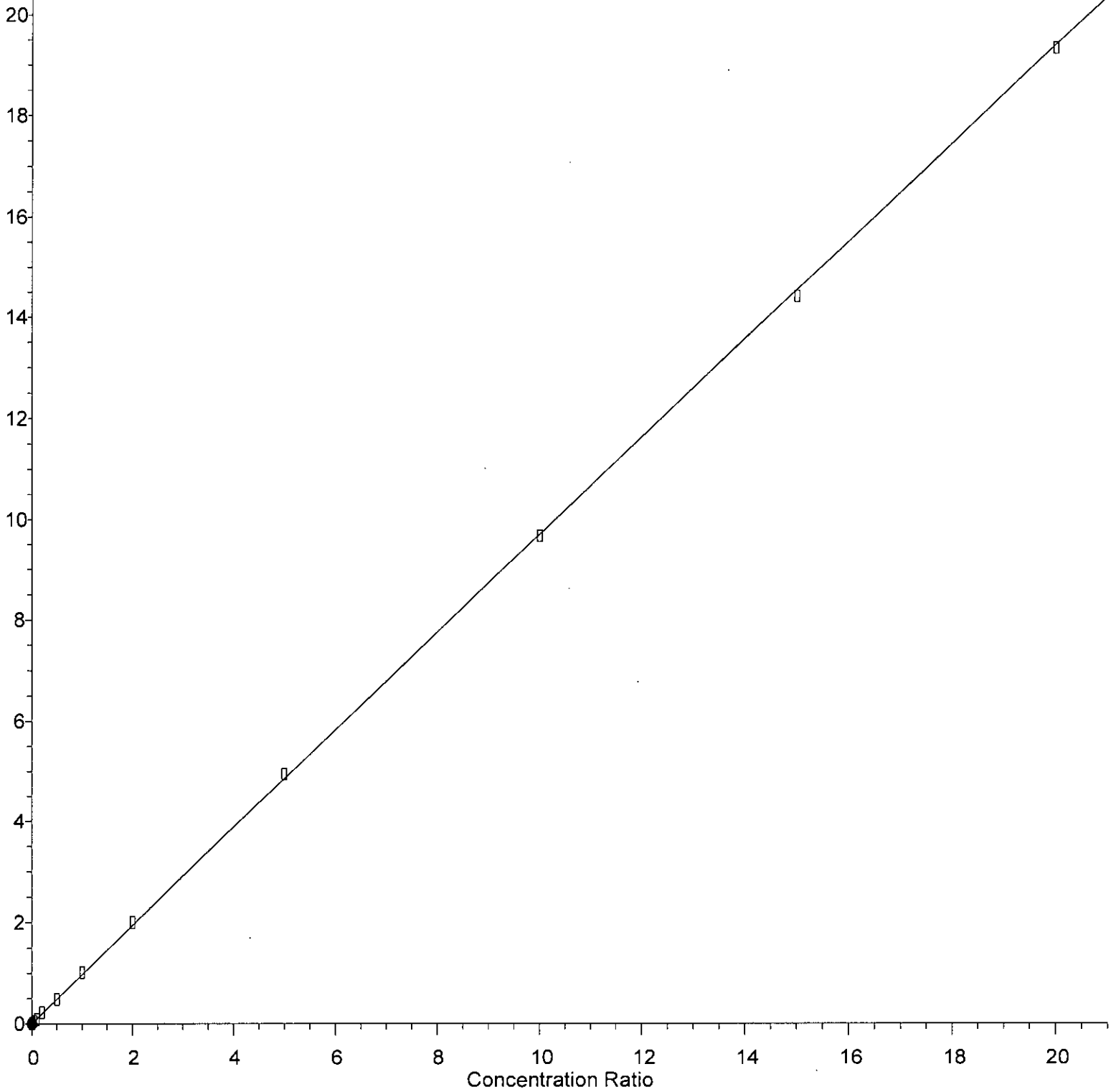
Response Ratio



Response = 3.780e-001 \* Amt + 1.250e-003  
Coef of Det (r^2) = 0.999591 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Benzene

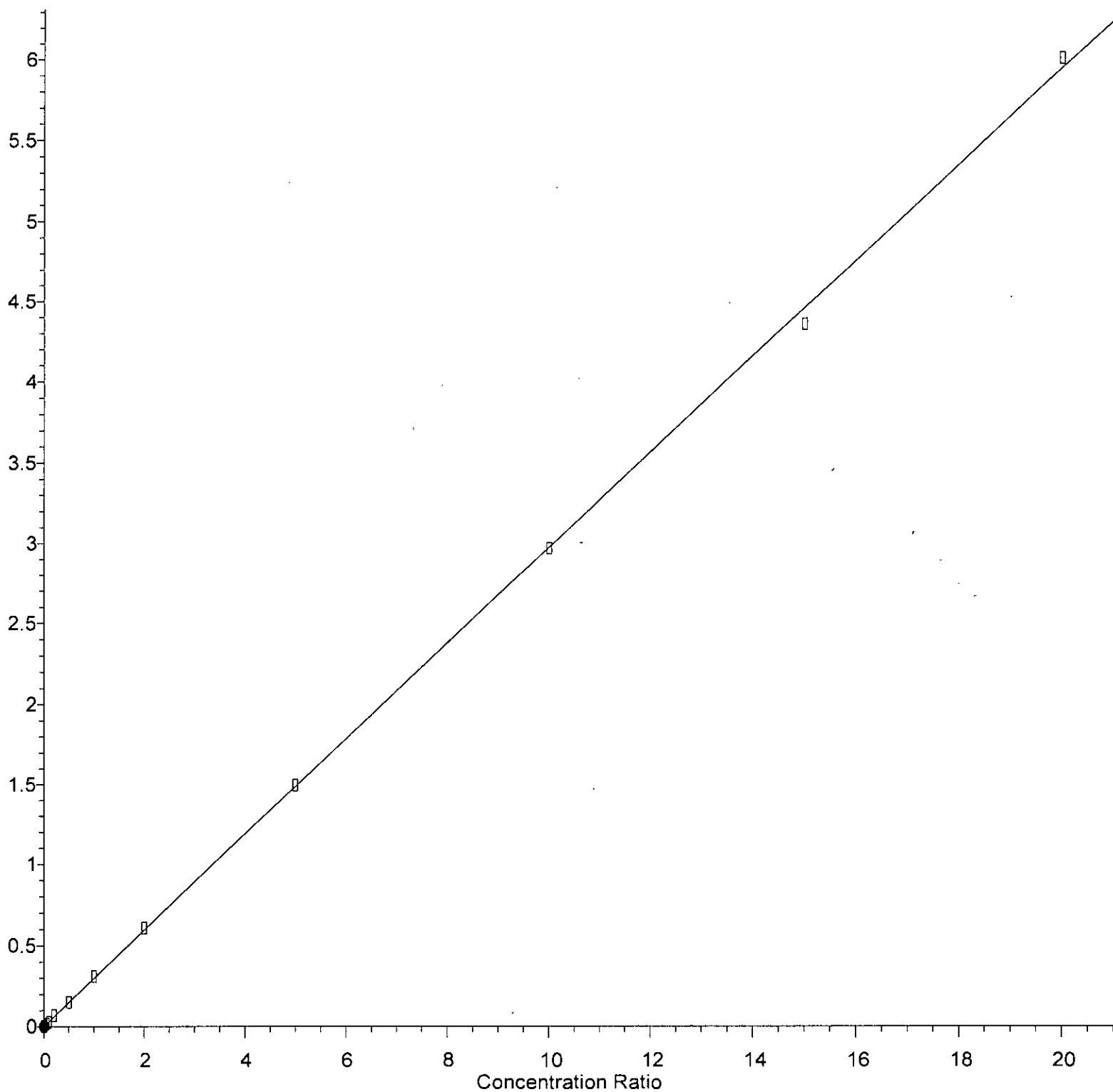
Response Ratio



Response = 9.700e-001 \* Amt + 1.076e-003  
Coef of Det (r^2) = 0.999738 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Trichloroethene

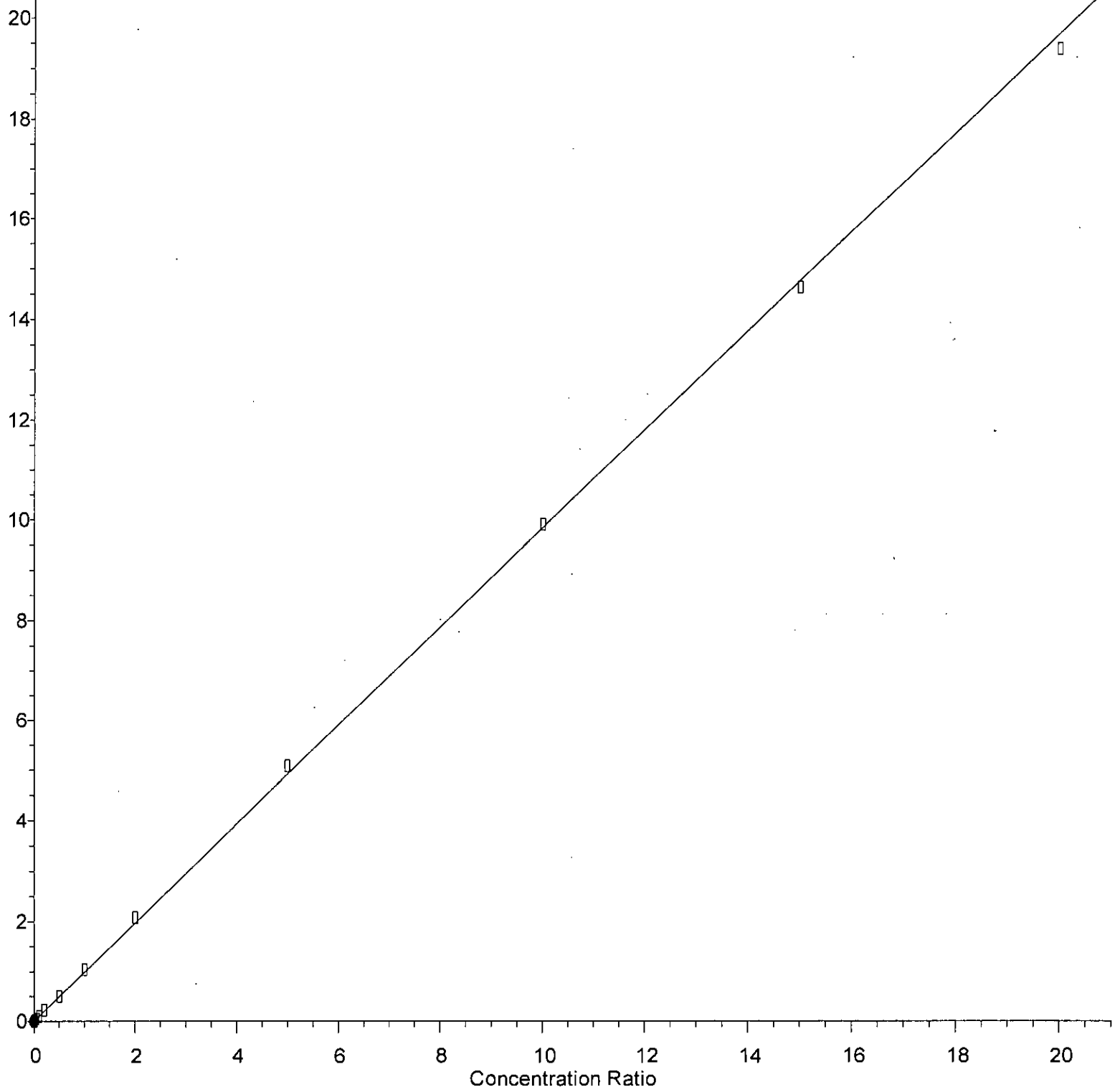
Response Ratio



Response = 2.975e-001 \* Amt + 4.204e-004  
Coef of Det (r^2) = 0.999633 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Toluene

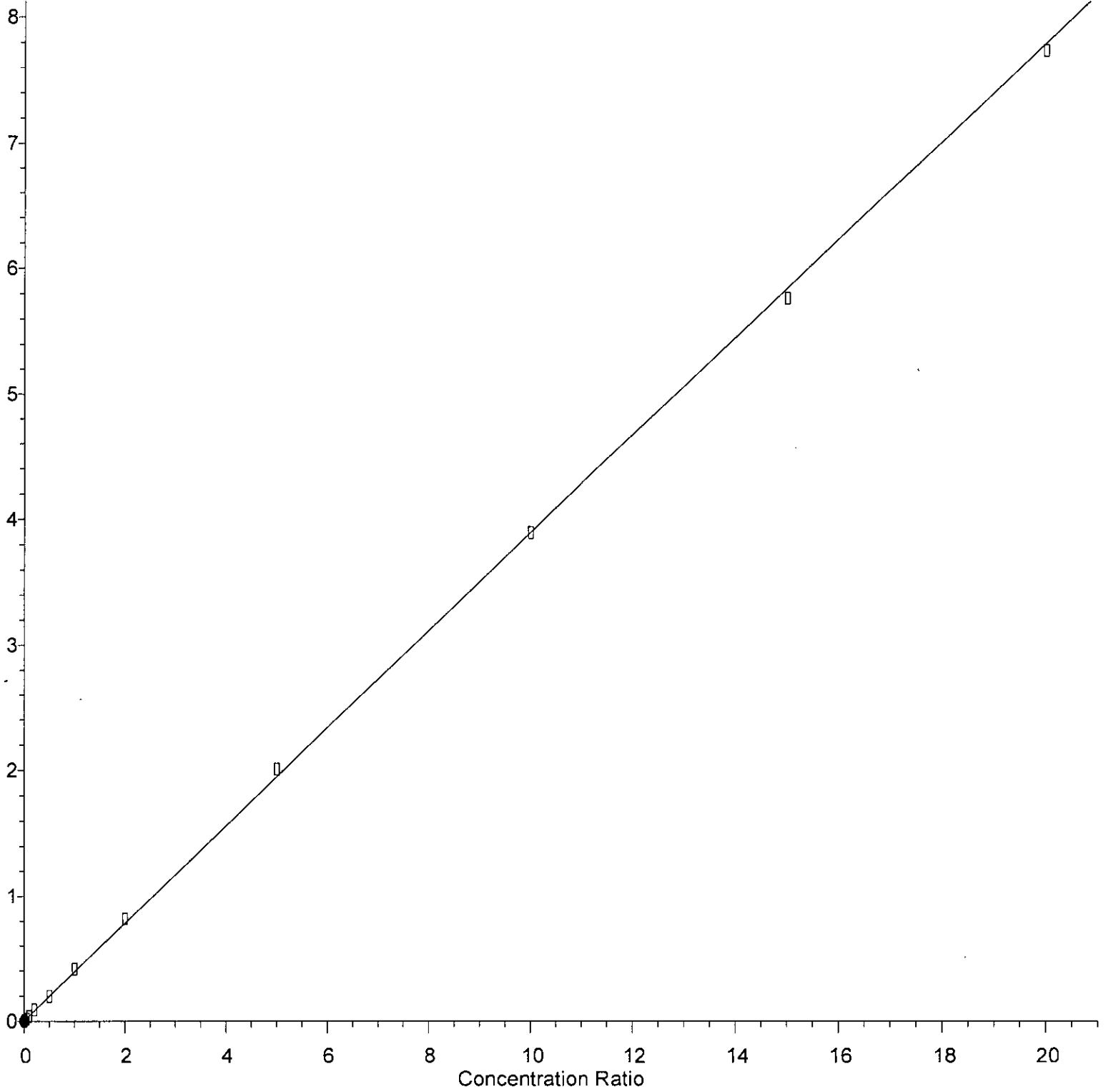
Response Ratio



Response = 9.845e-001 \* Amt + 1.609e-003  
Coef of Det (r^2) = 0.999524 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Tetrachloroethene

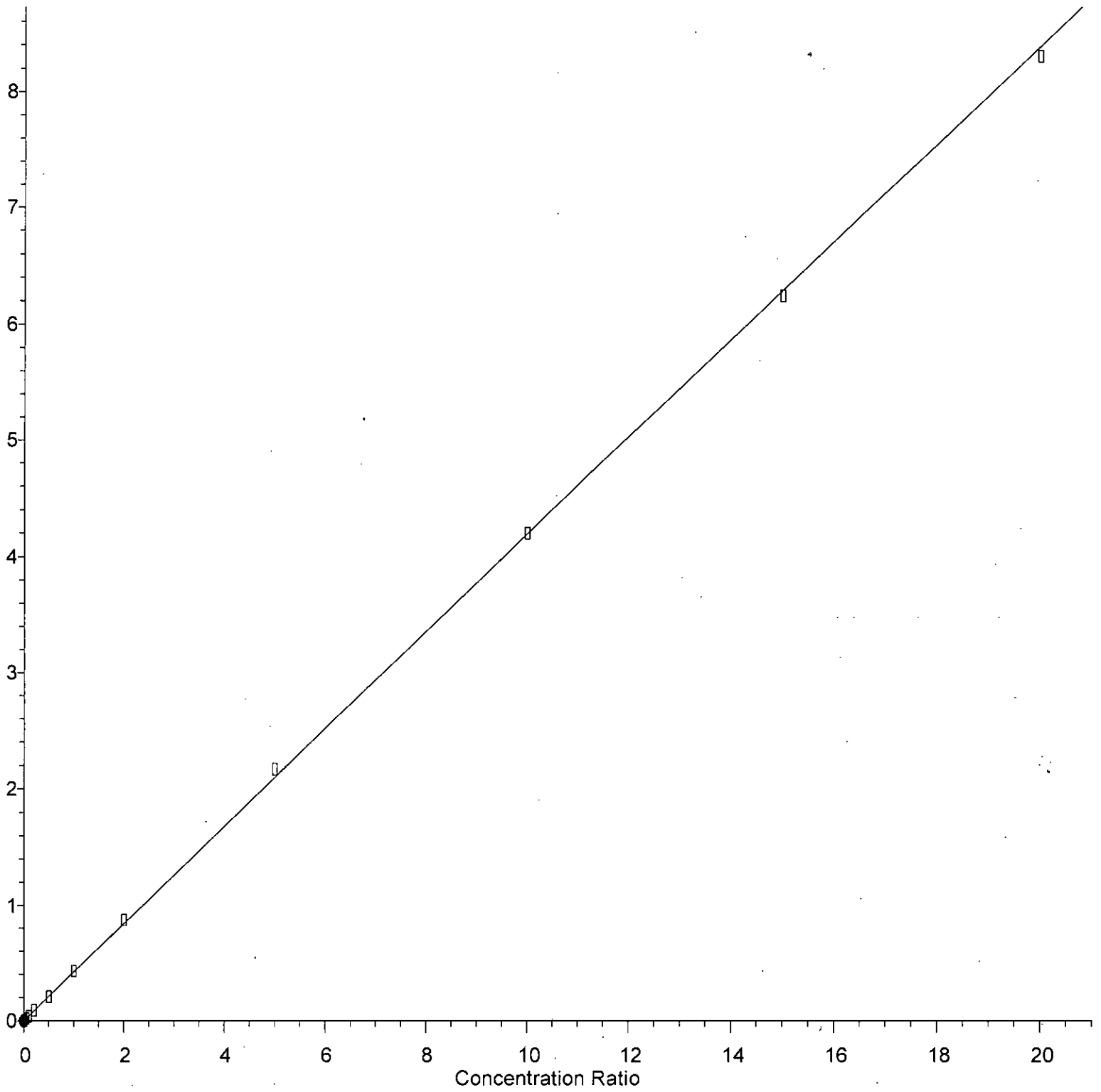
Response Ratio



Response = 3.895e-001 \* Amt + 8.458e-004  
Coef of Det (r^2) = 0.999586 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

1,2-Dibromoethane (EDB)

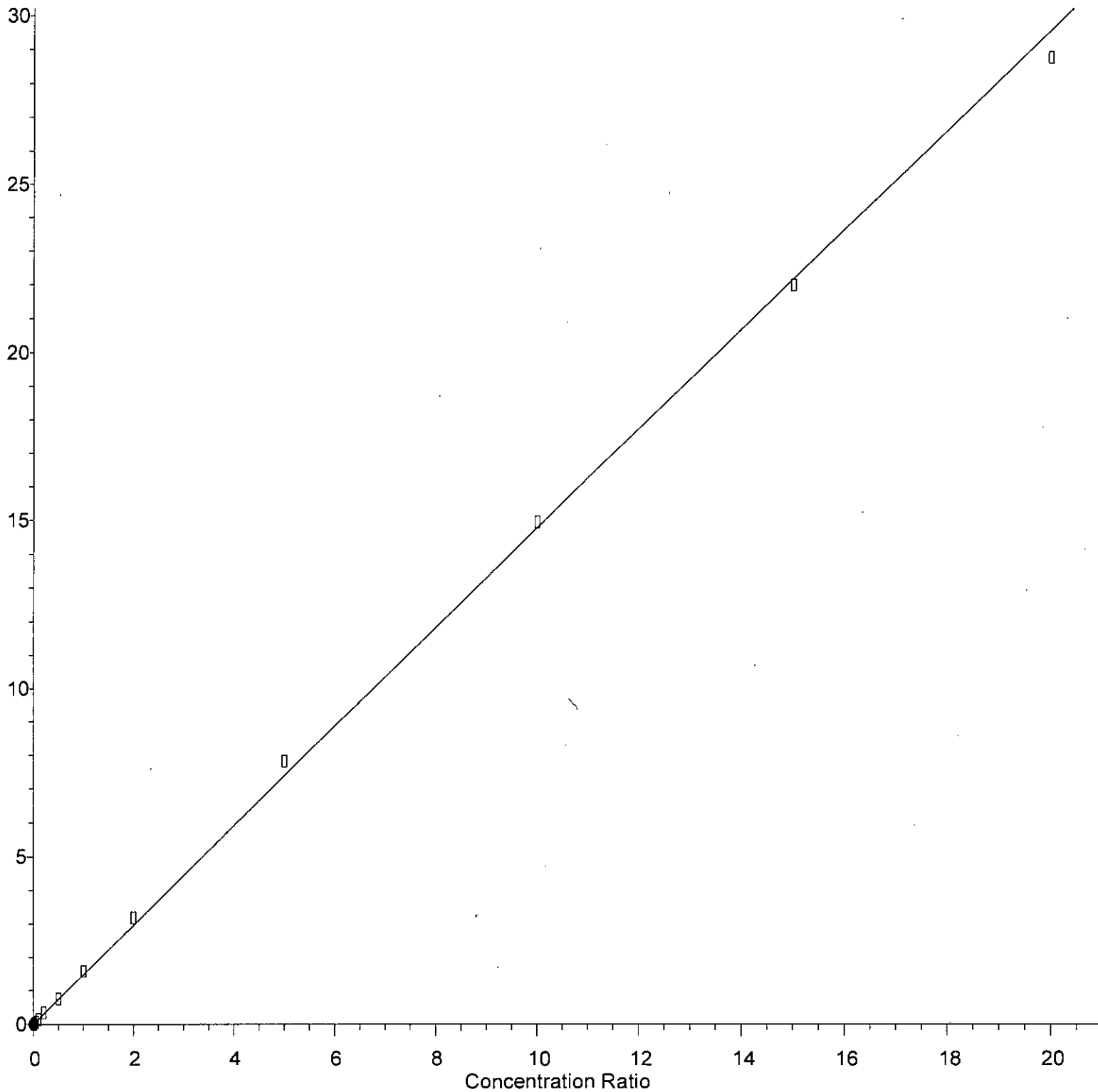
Response Ratio



Response = 4.193e-001 \* Amt + 3.871e-004  
Coef of Det (r^2) = 0.999723 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Ethylbenzene

Response Ratio

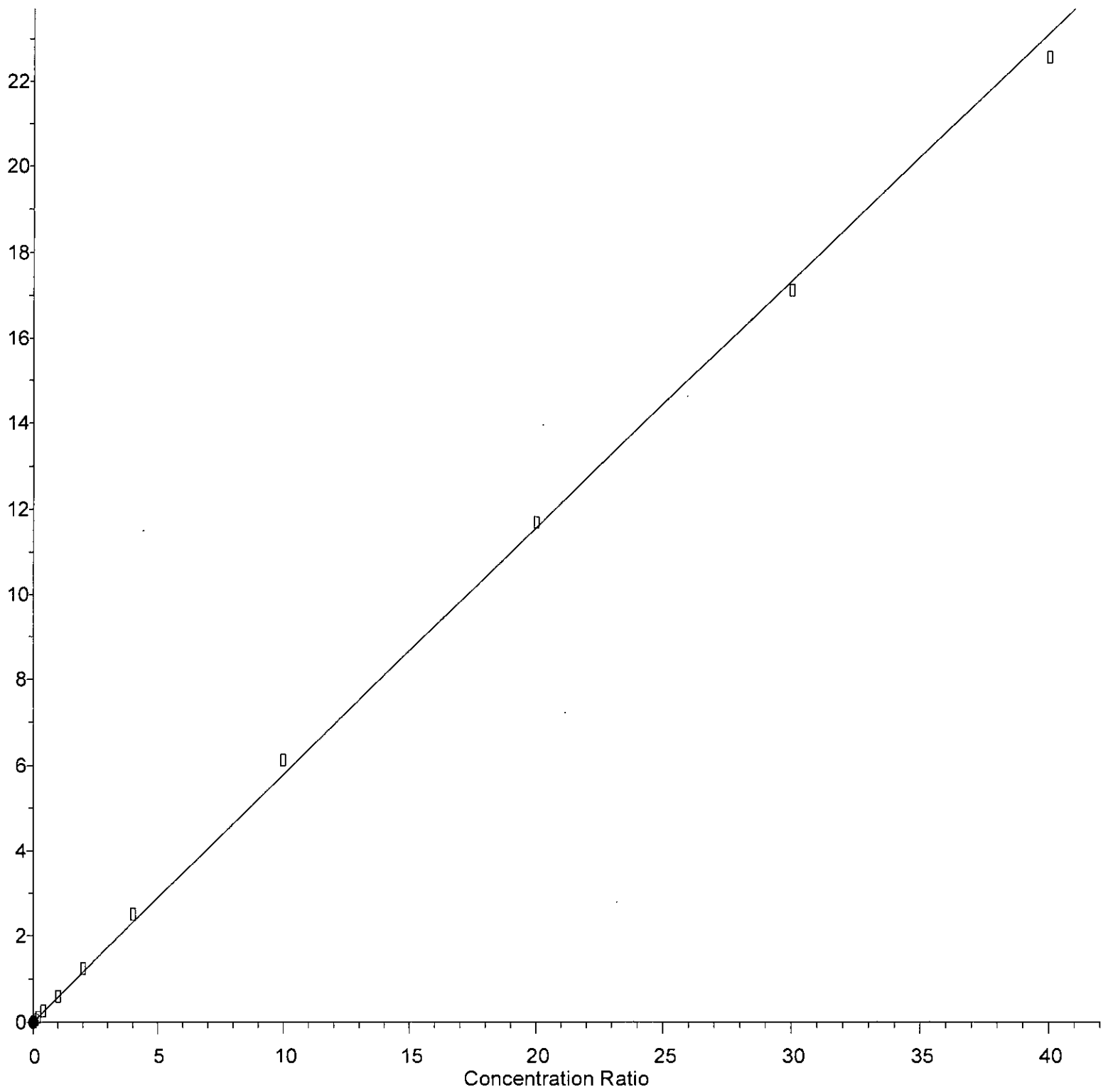


Response = 1.478e+000 \* Amt + 1.941e-003  
Coef of Det (r^2) = 0.998950 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023



m,p-Xylene

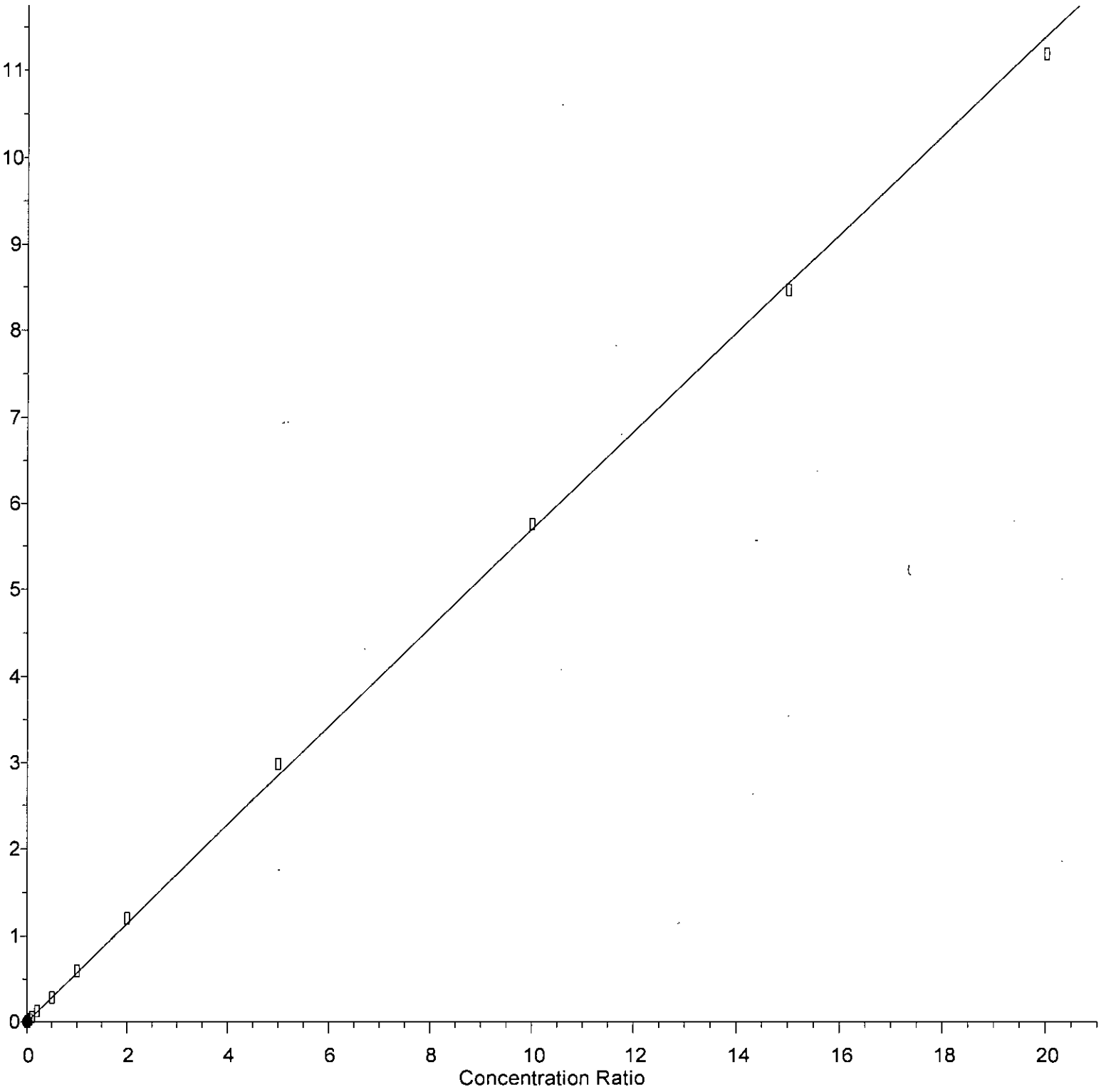
Response Ratio



Response = 5.784e-001 \* Amt + 1.541e-003  
Coef of Det (r^2) = 0.998962 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

o-Xylene

Response Ratio



Response = 5.700e-001 \* Amt + 5.393e-004  
Coef of Det (r^2) = 0.999400 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	117316	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	78480	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37244	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	29108	9.144	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	91.40%	
30) 1,2-Dichloroethane-d4	4.45	102	6387	9.060	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	90.60%	
35) Toluene-d8	6.10	98	116631	8.948	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	89.50%	
57) 4-Bromofluorobenzene	8.50	95	33980	10.130	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0				N.D.
4) Dichlorodifluoromethane	0.00		0				N.D. d
5) Chloromethane	0.00		0				N.D. d
6) Vinyl chloride	0.00		0				N.D. d
7) Bromomethane	0.00		0				N.D.
8) Chloroethane	0.00		0				N.D. d
9) Trichlorofluoromethane	0.00		0				N.D. d
10) 2-Propanol	0.00		0				N.D.
11) Acetone	0.00		0				N.D. d
12) 1,1-Dichloroethene	0.00		0				N.D. d
13) Hexane	0.00		0				N.D. d
14) Methylene chloride	0.00		0				N.D. d
15) t-Butyl alcohol (TBA)	0.00		0				N.D.
16) Methyl t-butyl ether (...)	0.00		0				N.D. d
17) trans-1,2-Dichloroethene	0.00		0				N.D. d
18) Diisopropyl ether (DIPE)	0.00		0				N.D. d
19) 1,1-Dichloroethane	0.00		0				N.D. d
20) Ethyl t-butyl ether (E...)	0.00		0				N.D.
21) 2,2-Dichloropropane	0.00		0				N.D.
22) cis-1,2-Dichloroethene	0.00		0				N.D. d
23) Chloroform	0.00		0				N.D.
24) 2-Butanone (MEK)	0.00		0				N.D. d
25) t-Amyl methyl ether (T...)	0.00		0				N.D.
26) 1,2-Dichloroethane (EDC)	0.00		0				N.D. d
27) 1,1,1-Trichloroethane	0.00		0				N.D. d
28) 1,1-Dichloropropene	0.00		0				N.D.
29) Carbon tetrachloride	0.00		0				N.D.
31) Benzene	0.00		0				N.D. d
32) Trichloroethene	0.00		0				N.D. d
33) 1,2-Dichloropropane	0.00		0				N.D.
34) Bromodichloromethane	0.00		0				N.D.
36) Dibromomethane	0.00		0				N.D.

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

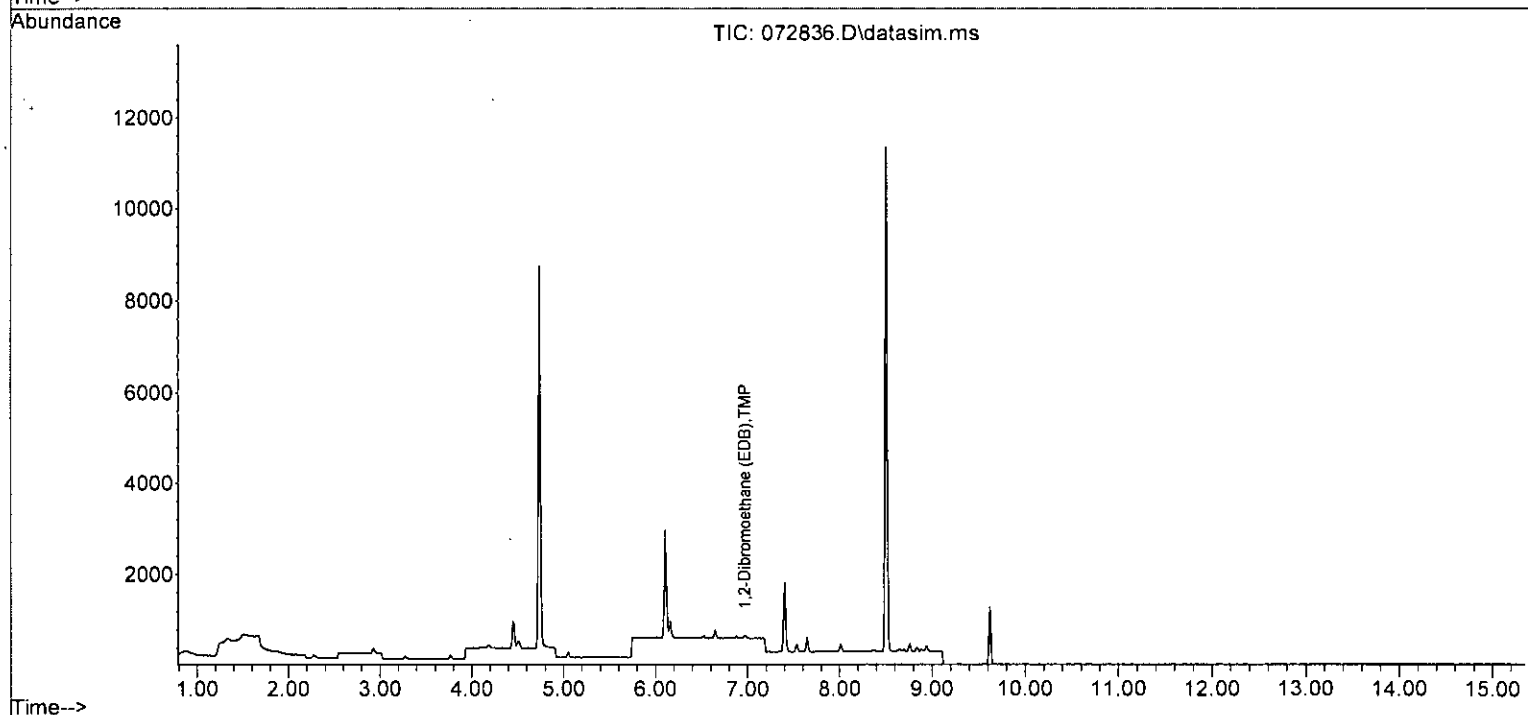
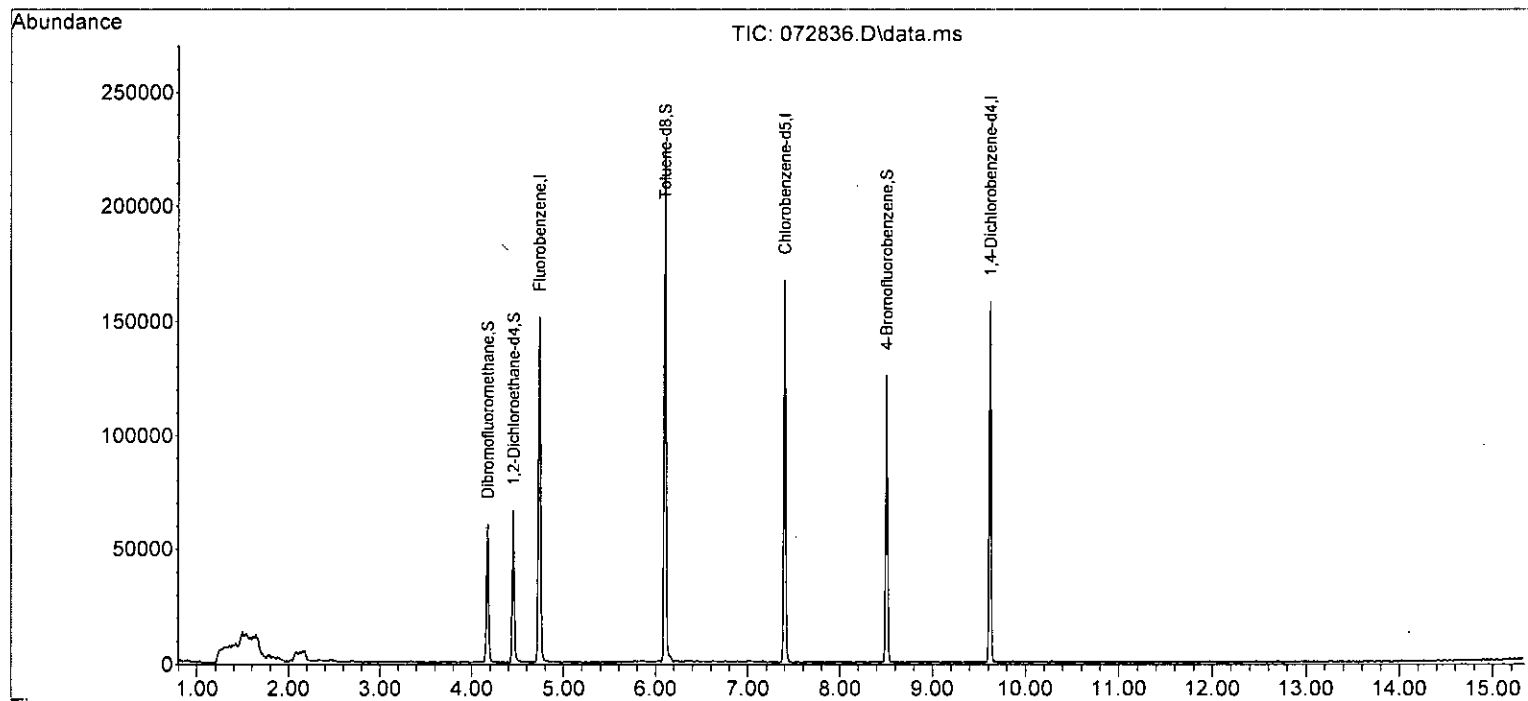
Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40) Toluene	0.00		0		N.D. d	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	0.00		0		N.D. d	
46) Dibromochloromethane	0.00		0		N.D.	
47] 1,2-Dibromoethane (EDB)	6.97	107	63	0.010	ppb	77
48) Chlorobenzene	0.00		0		N.D.	
49) Ethylbenzene	0.00		0		N.D. d	
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51) m,p-Xylene	0.00		0		N.D. d	
52) o-Xylene	0.00		0		N.D. d	
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S Dibromofluoromethane	10.000	9.144	8.6	100	0.01
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP Vinyl chloride	-1.000	0.000	0.0	0	-1.32#
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP 1,1-Dichloroethene	-1.000	0.000	0.0	0	-2.26#
13 TMP Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-2.92#
17 TMP trans-1,2-Dichloroethene	-1.000	0.000	0.0	0	-2.91#
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP 1,1-Dichloroethane	-1.000	0.000	0.0	0	-3.27#
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP cis-1,2-Dichloroethene	-1.000	0.000	0.0	0	-3.76#
23 TMP Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP 1,2-Dichloroethane (EDC)	-1.000	0.000	0.0	0	-4.51#
27 TMP 1,1,1-Trichloroethane	-1.000	0.000	0.0	0	-4.19#
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S 1,2-Dichloroethane-d4	10.000	9.060	9.4	100	0.00
31 TMP Benzene	-1.000	0.000	0.0	0	-4.49#
32 TMP Trichloroethene	-1.000	0.000	0.0	0	-5.04#
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S Toluene-d8	10.000	8.948	10.5	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	-1.000	0.000	0.0	0	-6.16#
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP 1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-6.64#
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.010	0.010	0.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	-1.000	0.000	0.0	0	-7.54#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51 TMP m,p-Xylene	-1.000	0.000	0.0	0	-7.64#
52 TMP o-Xylene	-1.000	0.000	0.0	0	-8.01#
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.130	-1.3	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.69#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.248	8.5	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.000#	100.0#	0#	-1.32#
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.000#	100.0#	0#	-2.26#
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.000#	100.0#	0#	-2.92#
17 TMP	trans-1,2-Dichloroethene	0.282	0.000#	100.0#	0#	-2.91#
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.000#	100.0#	0#	-3.27#
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.000#	100.0#	0#	-3.76#
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.000#	100.0#	0#	-4.51#
27 TMP	1,1,1-Trichloroethane	0.406	0.000#	100.0#	0#	-4.19#
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.054	10.0	100	0.00
31 TMP	Benzene	1.042	0.000#	100.0#	0#	-4.49#
32 TMP	Trichloroethene	0.326	0.000#	100.0#	0#	-5.04#
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	0.994	10.5	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	0.000#	100.0#	0#	-6.16#
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.000#	100.0#	0#	-6.64#
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.803	-71.2#	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	0.000#	100.0#	0#	-7.54#
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.000#	100.0#	0#	-7.64#
52 TMP o-Xylene	0.606	0.000#	100.0#	0#	-8.01#
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.912	-1.2	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.000#	100.0#	0#	-8.69#
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

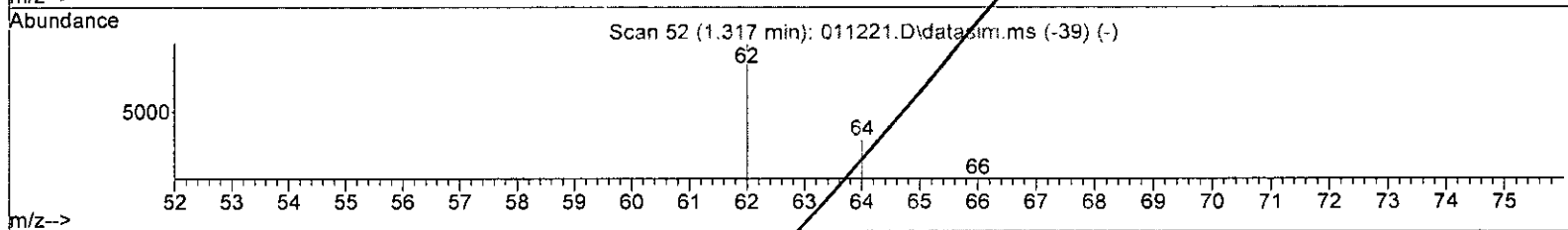
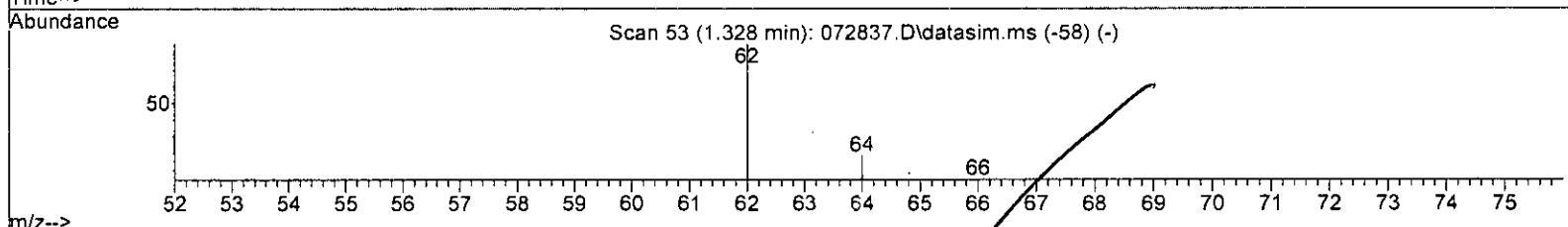
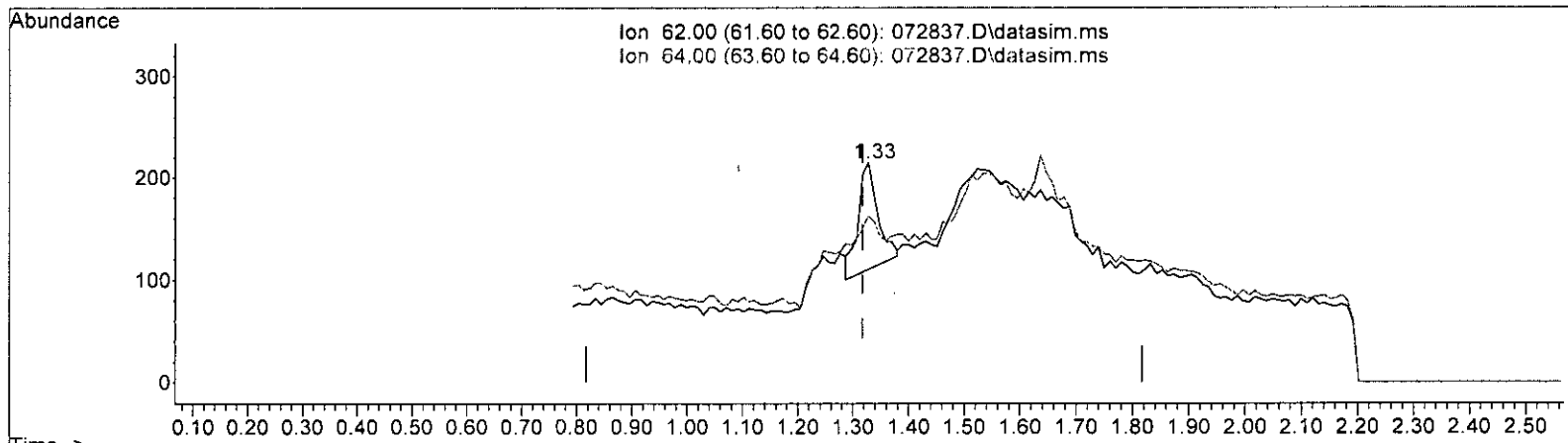
(#) = Out of Range

SPCC's out = 67 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.032 ppb

response 258

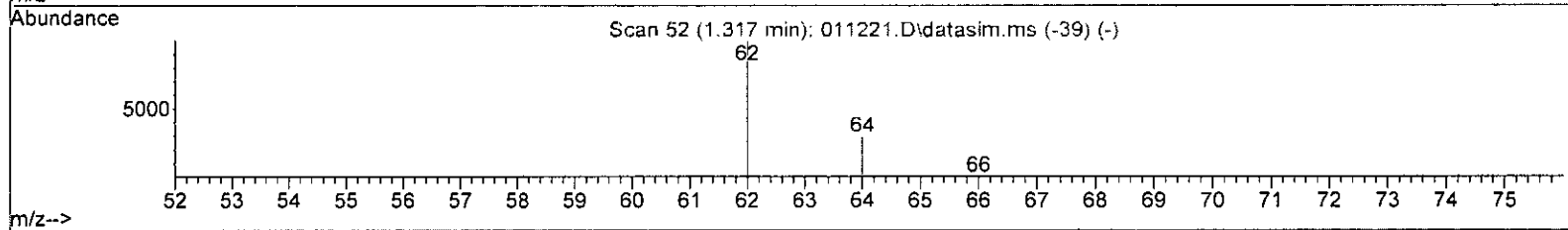
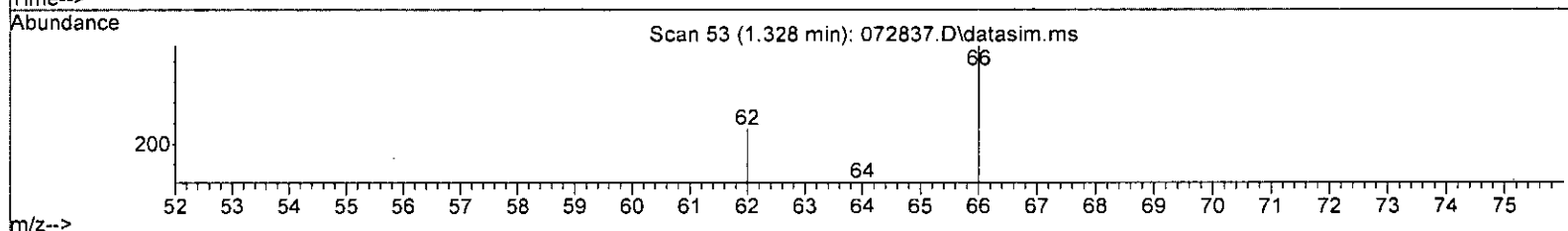
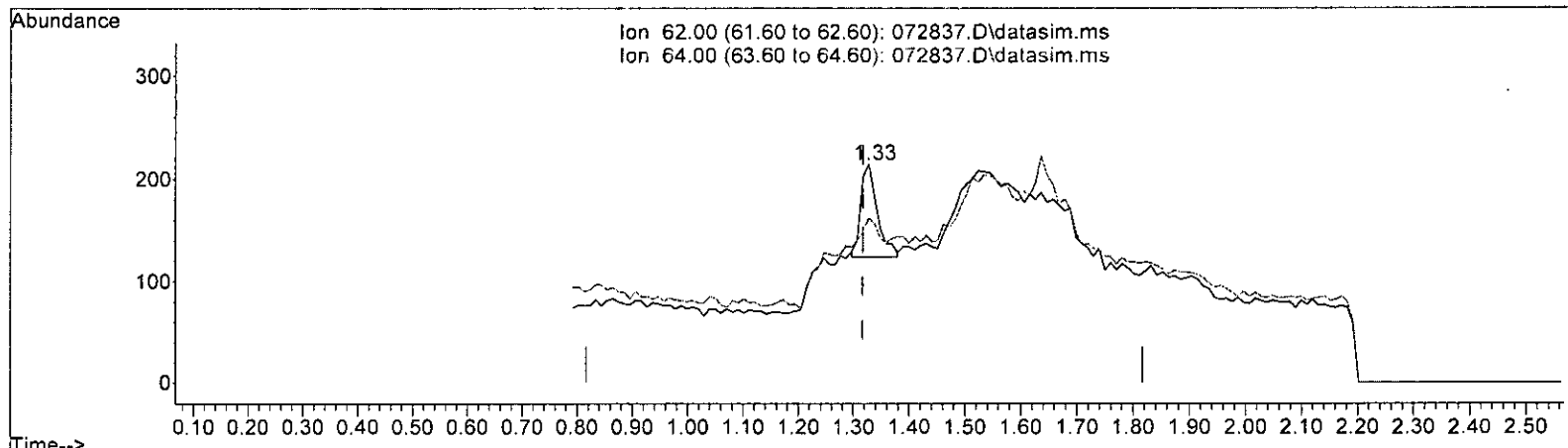
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	29.67
0.00	0.00	0.00
0.00	0.00	0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.023 ppb m

response 185

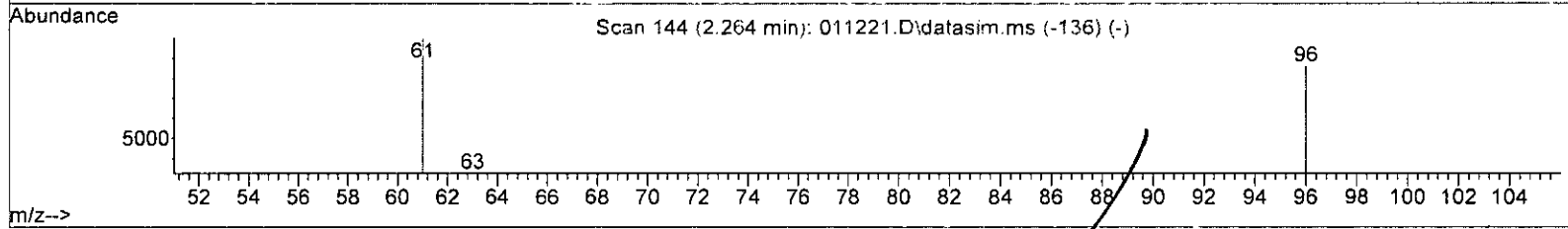
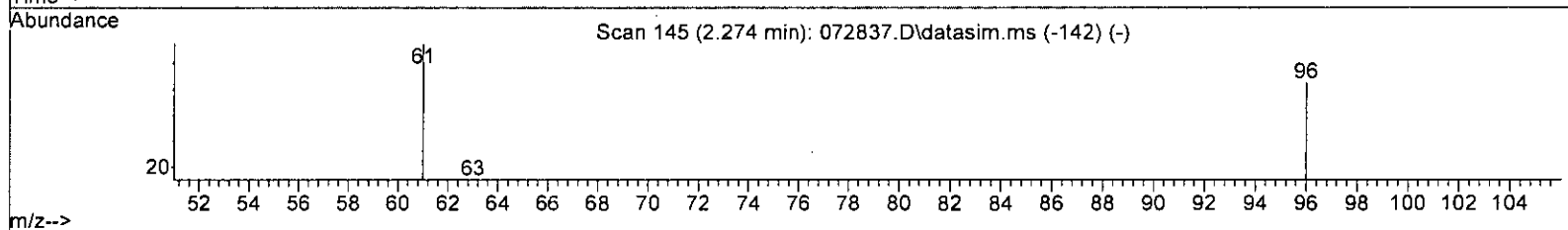
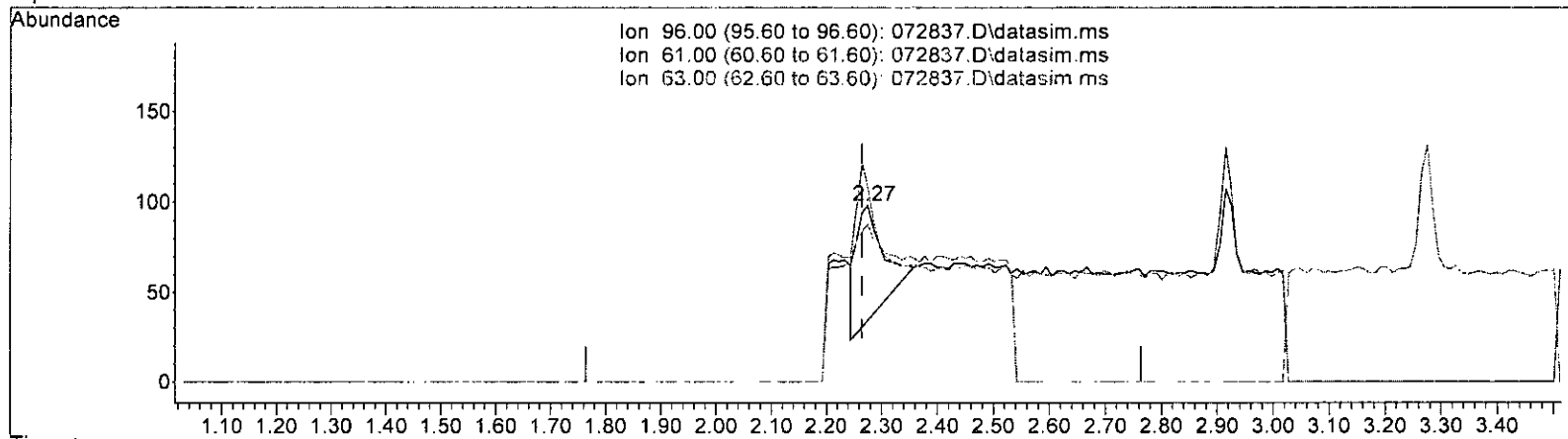
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	75.70#
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.067 ppb

response 215

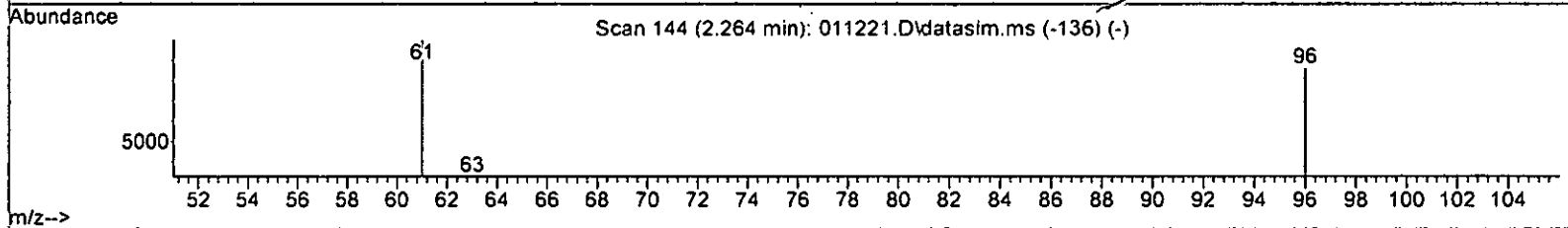
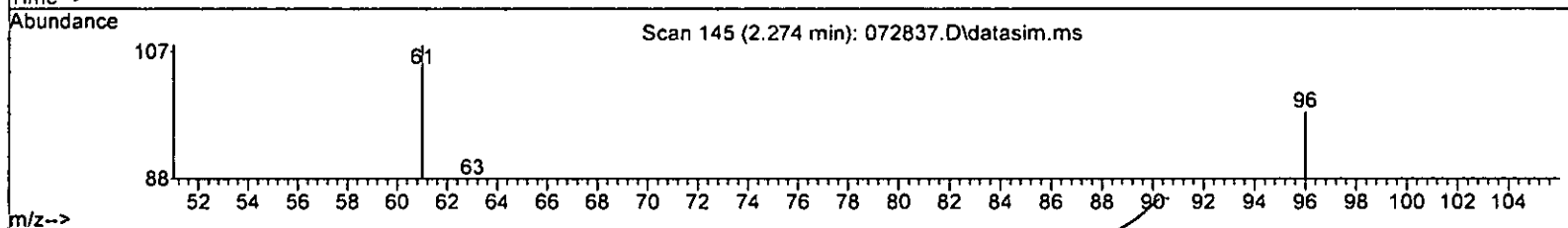
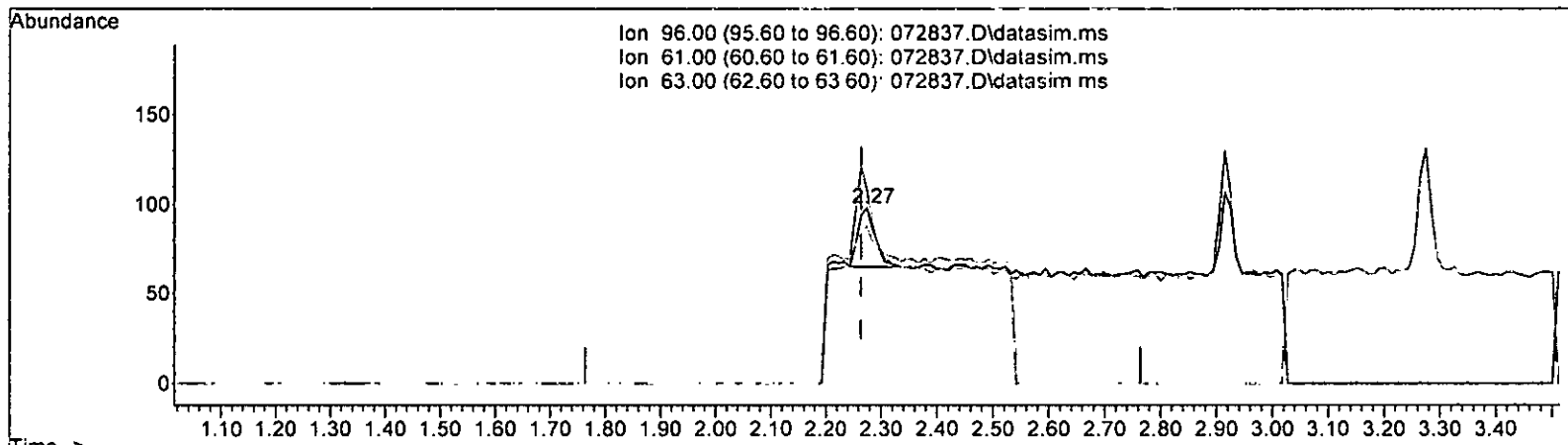
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	123.53#
63.00	54.90	55.88
0.00	0.00	0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.015 ppb m

response 70

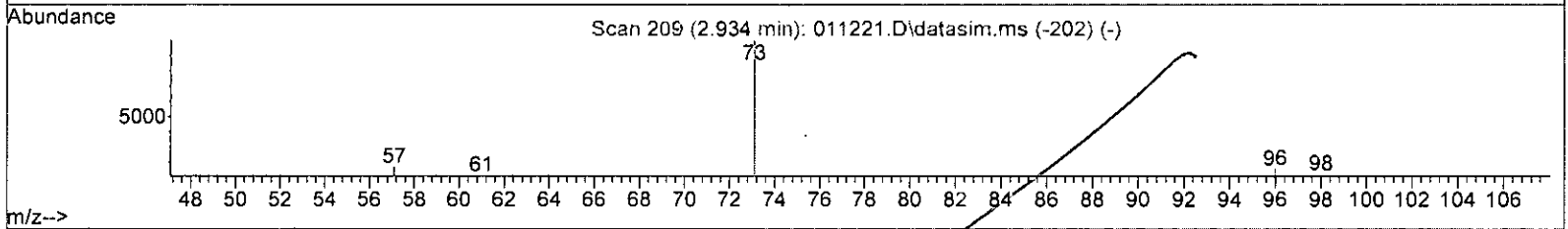
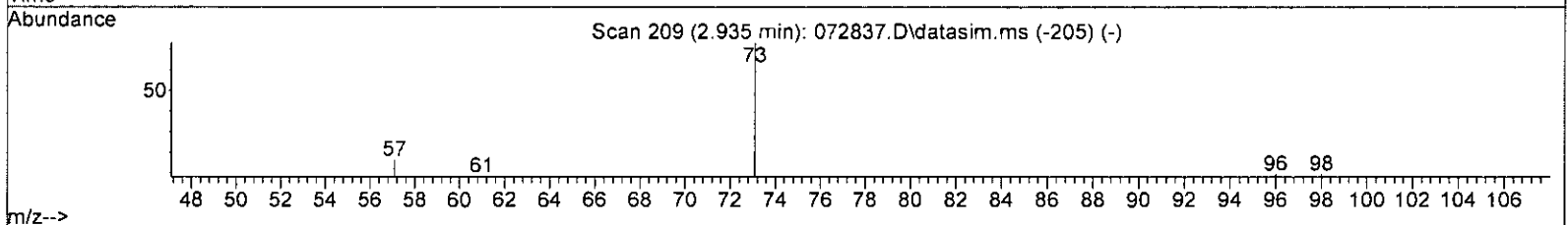
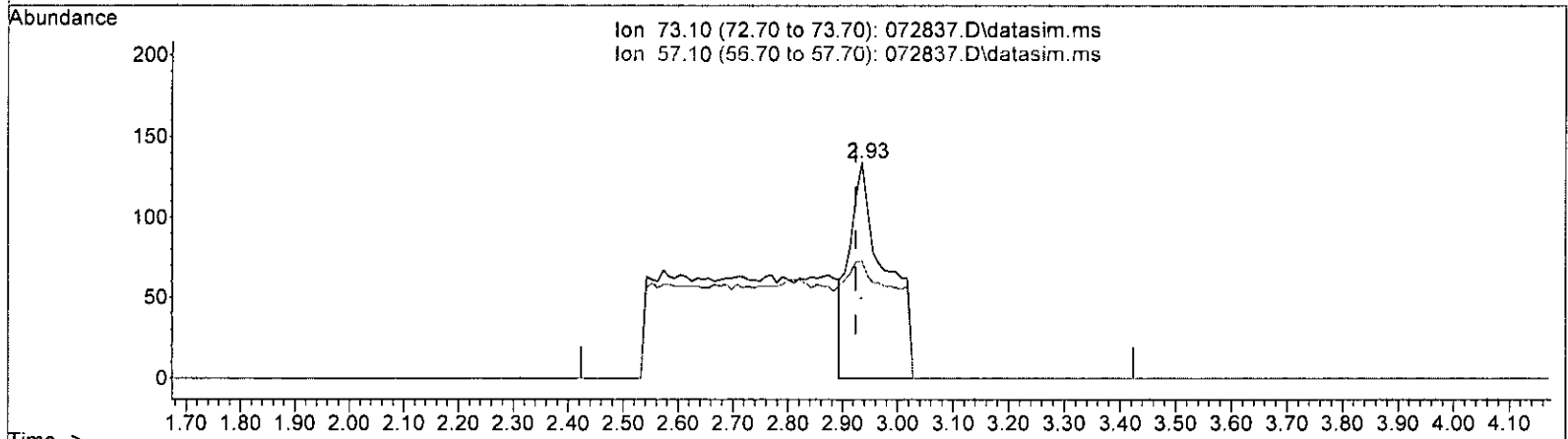
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	110.20#
63.00	54.90	89.80#
0.00	0.00	0.00

7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

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

2.935min (+ 0.011) 0.092 ppb

response 601

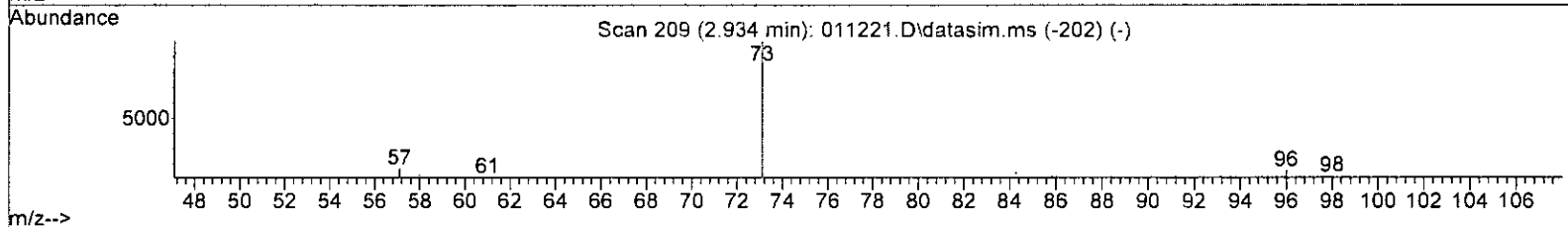
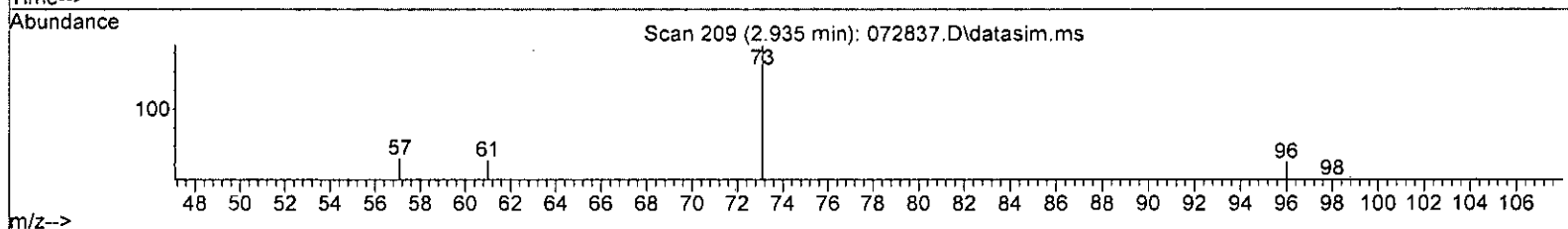
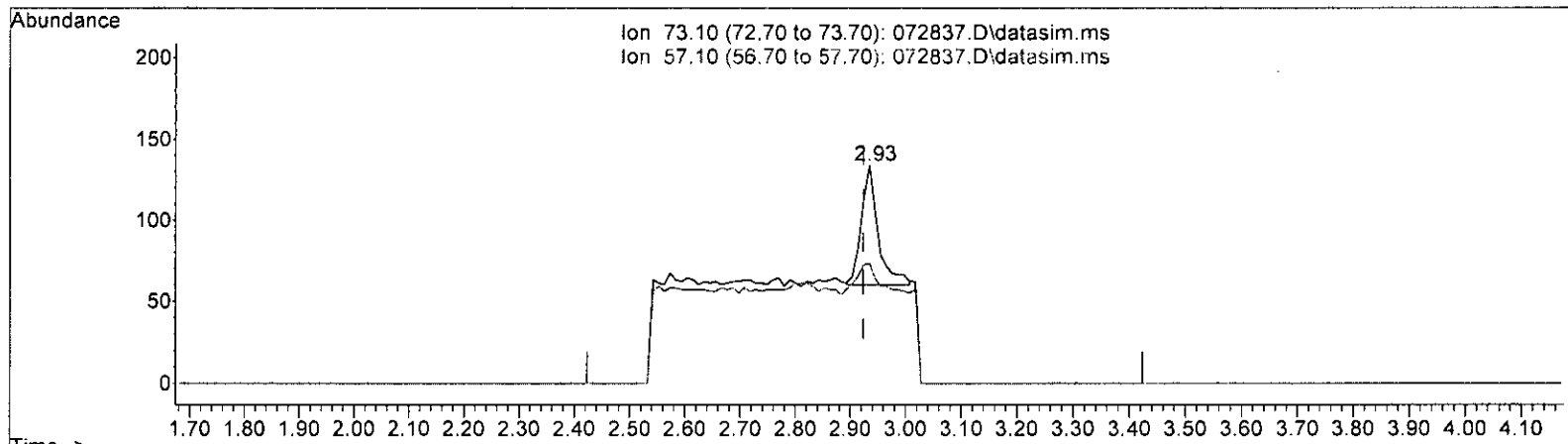
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	54.48
0.00	0.00	0.00
0.00	0.00	0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

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

2.935min (+ 0.011) 0.024 ppb m

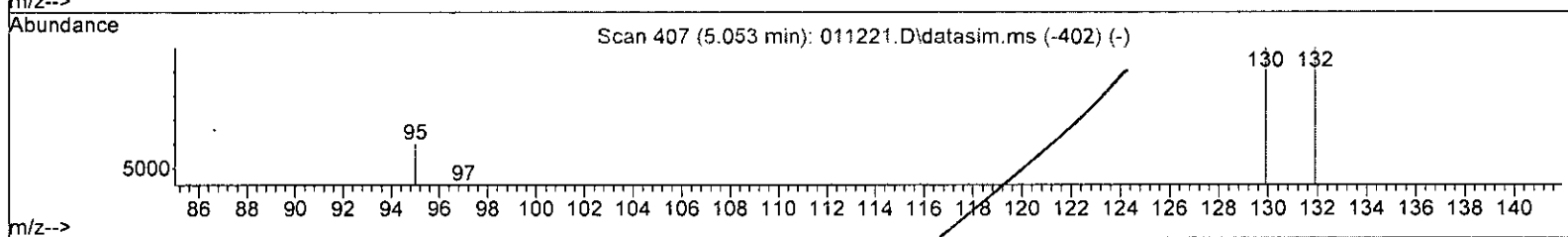
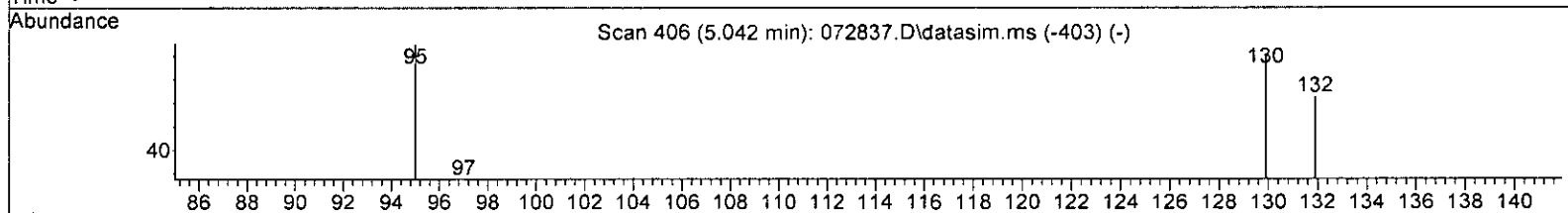
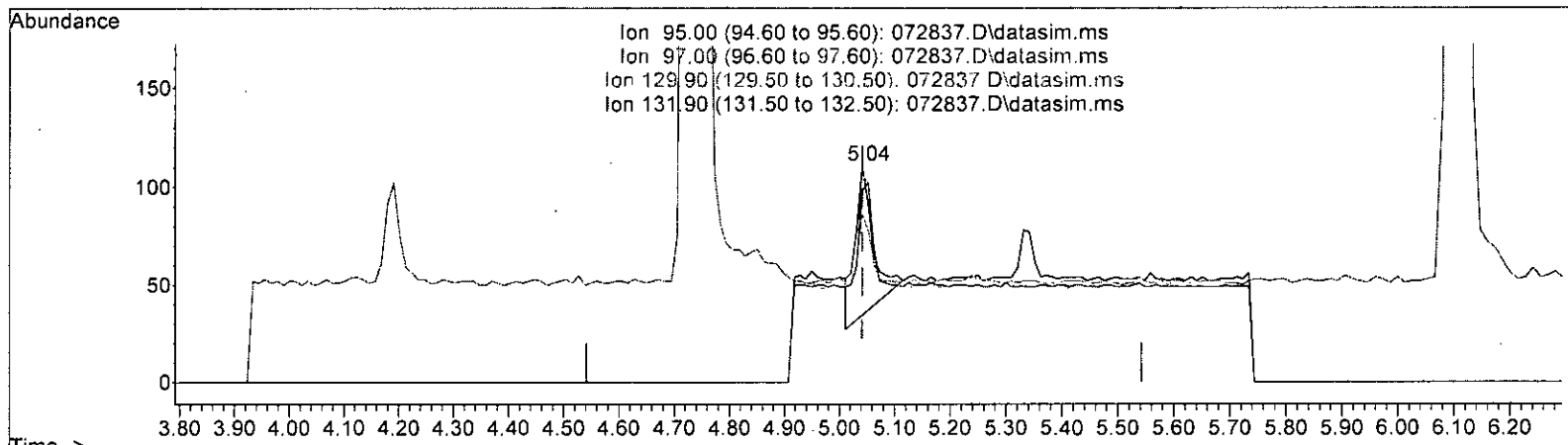
response	154	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	54.48
0.00	0.00	0.00
0.00	0.00	0.00

m 7/20

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.042 ppb

response 172

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	59.32
129.90	98.60	94.92
131.90	86.60	83.05

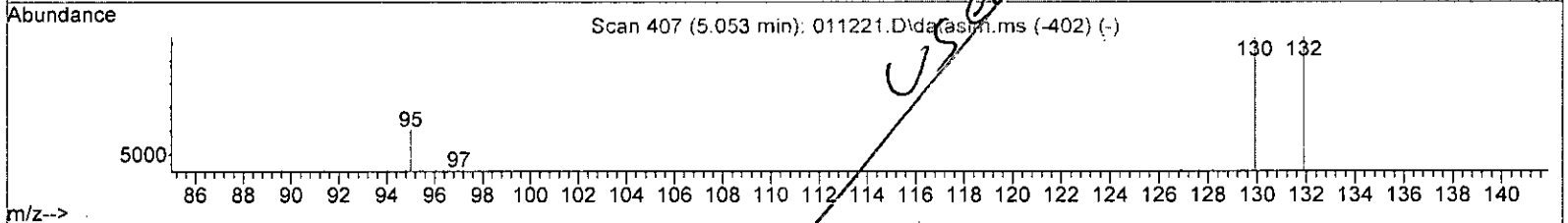
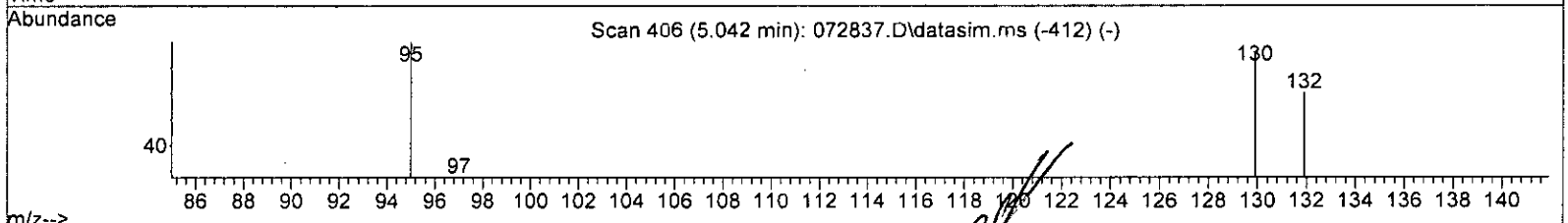
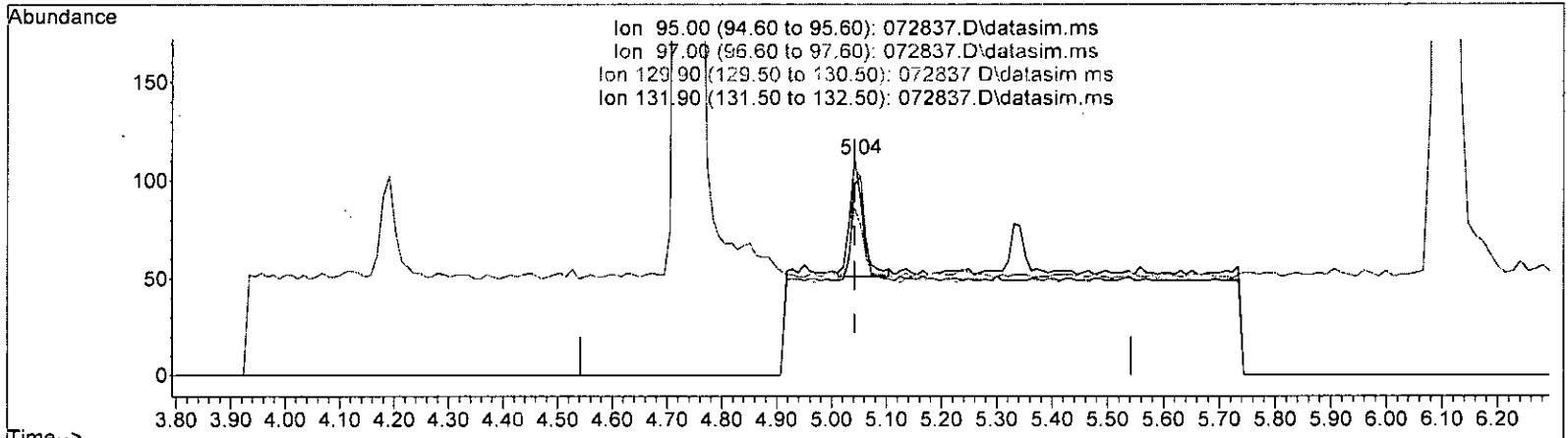
M 7/29



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.018 ppb m

response	100	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	77.48
129.90	98.60	95.50
131.90	86.60	88.29

7/29

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	103848	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	79424	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37411	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	28543	10.129	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%
30) 1,2-Dichloroethane-d4	4.45	102	6452	10.339	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	103.40%
35) Toluene-d8	6.10	98	117679	10.199	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.00%
57) 4-Bromofluorobenzene	8.50	95	33144	9.836	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.33	62	185m	0.023	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.27	96	70m	0.015	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	154m	0.024	ppb	
17] trans-1,2-Dichloroethene	2.91	96	73	0.011	ppb	89
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.27	63	127	0.025	ppb	97
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	79	0.026	ppb	94
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.52	62	178	0.012	ppb	91
27] 1,1,1-Trichloroethane	4.19	97	97	0.023	ppb	95
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	283	0.017	ppb	91
32] Trichloroethene	5.04	95	100m	0.018	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

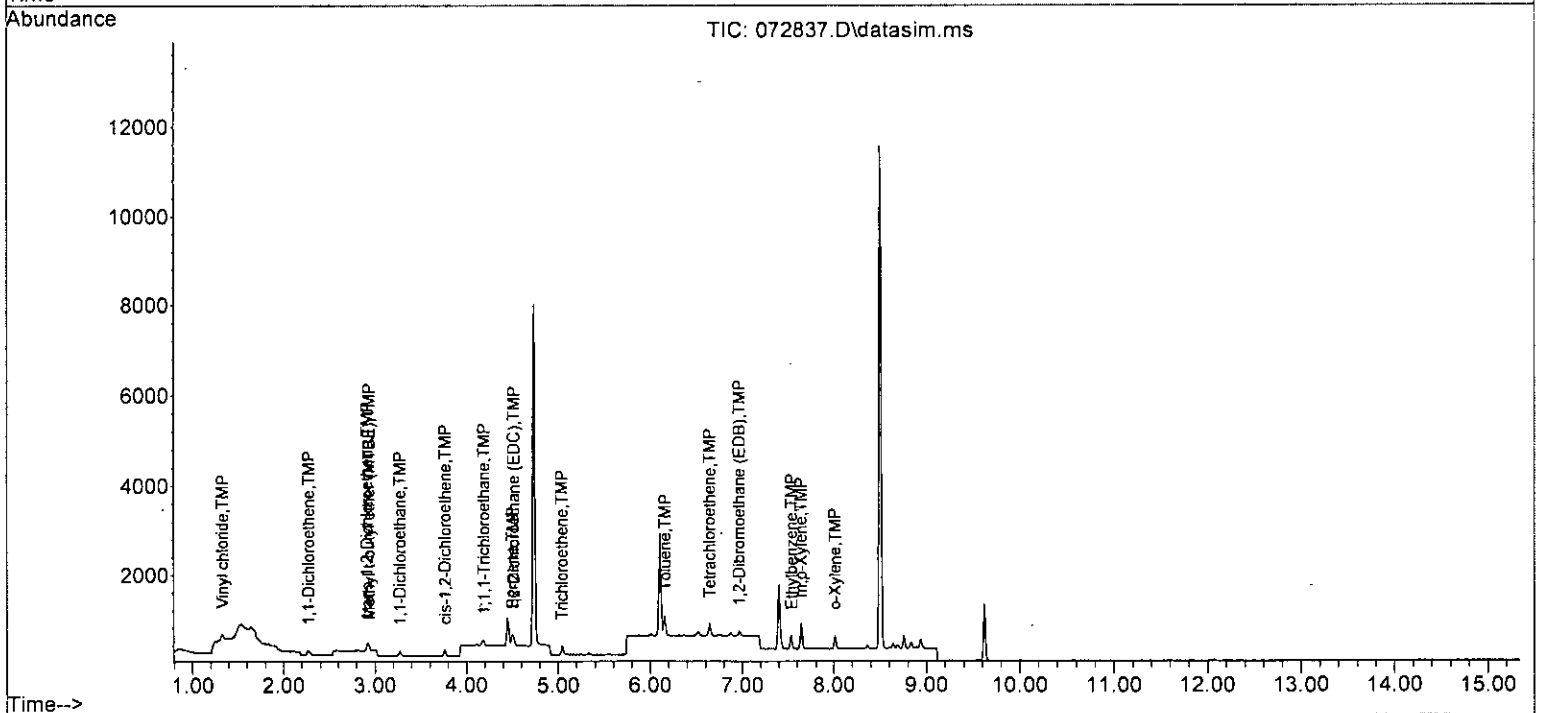
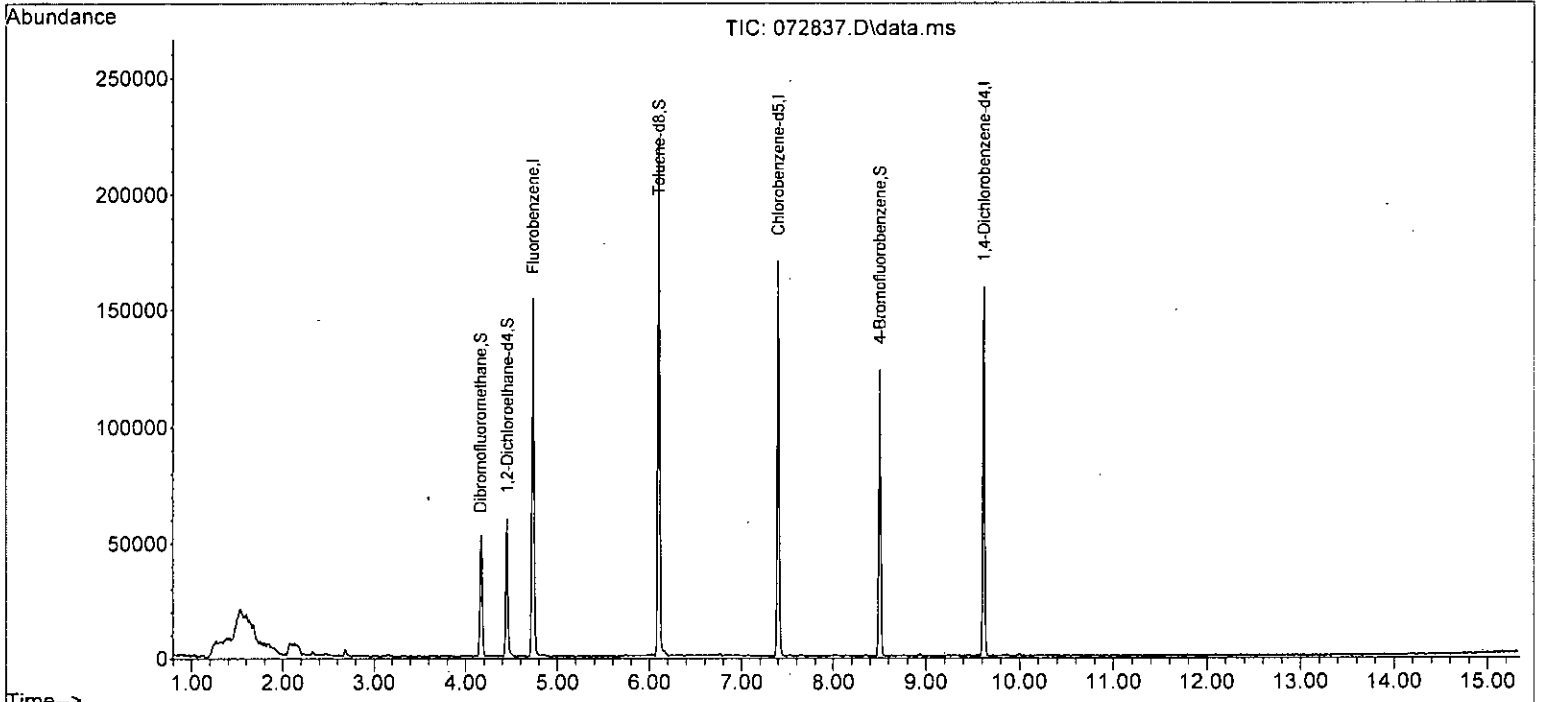
Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40] Toluene	6.16	92	240	0.014	ppb	90
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D. d	
45] Tetrachloroethene	6.64	164	122	0.018	ppb	95
46) Dibromochloromethane	0.00		0		N.D.	
47] 1,2-Dibromoethane (EDB)	6.97	107	92	0.018	ppb	92
48) Chlorobenzene	0.00		0		N.D. d	
49] Ethylbenzene	7.54	91	336	0.015	ppb	94
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	267	0.031	ppb	93
52] o-Xylene	8.01	106	122	0.017	ppb	97
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S	Dibromofluoromethane	10.000	10.129	-1.3	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.020	0.023	-15.0	93	0.01
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.020	0.015	25.0#	100	0.01
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.020	0.024	-20.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.020	0.011	45.0#	100	0.00
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.020	0.025	-25.0#	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.020	0.026	-30.0#	100	0.01
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.020	0.012	40.0#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.020	0.023	-15.0	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S	1,2-Dichloroethane-d4	10.000	10.339	-3.4	100	0.00
31 TMP	Benzene	0.020	0.017	15.0	100	0.01
32 TMP	Trichloroethene	0.020	0.018	10.0	94	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S	Toluene-d8	10.000	10.199	-2.0	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.020	0.014	30.0#	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.020	0.018	10.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.018	10.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.020	0.015	25.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51 TMP m,p-Xylene	0.040	0.031	22.5#	100	0.00
52 TMP o-Xylene	0.020	0.017	15.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.836	1.6	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.69#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.275	-1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.891	-15.9	93	0.01
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.337	-17.0	100	0.01
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.741	-18.2	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.351	-24.5#	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.611	-25.7#	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.380	-31.5#	100	0.01
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.857	-85.5#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.467	-15.0	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	1.042	1.363	-30.8#	100	0.01
32 TMP	Trichloroethene	0.326	0.481	-47.5#	94	0.00
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	1.133	-2.0	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.511	-38.4#	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.768	-72.2#	100	0.00
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.579	-23.5#	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	2.115	-31.4#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.840	-33.3#	100	0.00
52 TMP o-Xylene	0.606	0.768	-26.7#	100	0.00
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.886	1.7	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.000#	100.0#	0#	-8.69#
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

(#) = Out of Range

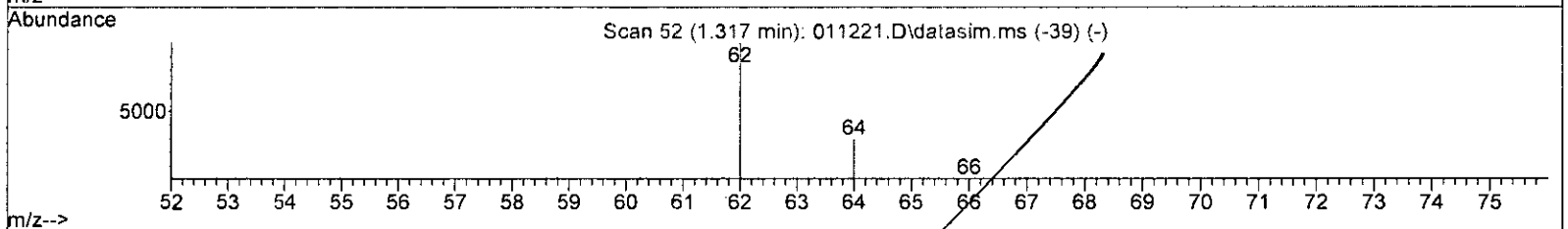
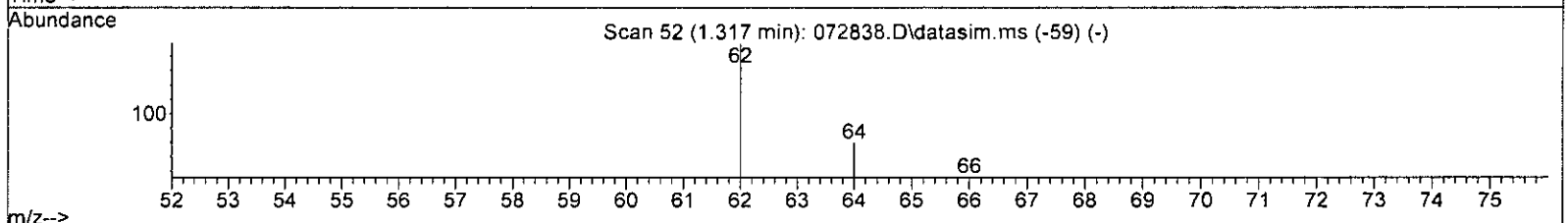
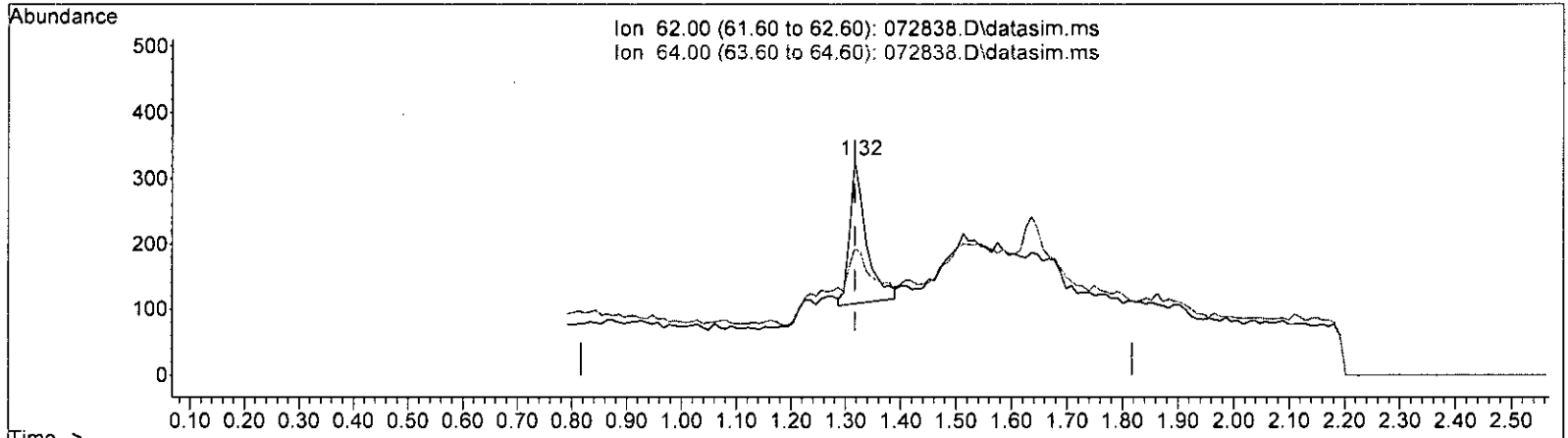
SPCC's out = 52 CCC's out = 0



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260.ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(6) Vinyl chloride (TMP)

1.317min (+ 0.000) 0.056 ppb

response 460

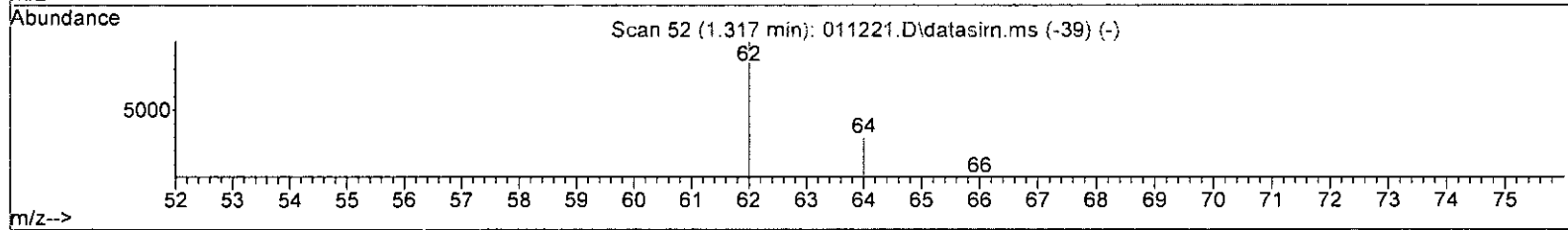
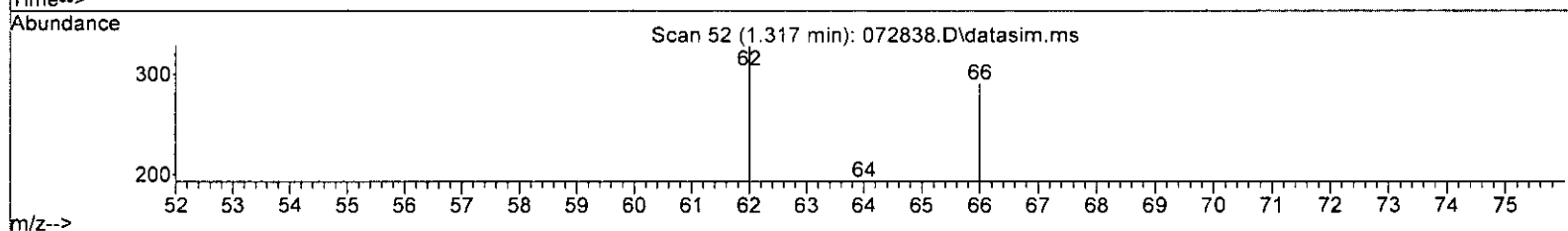
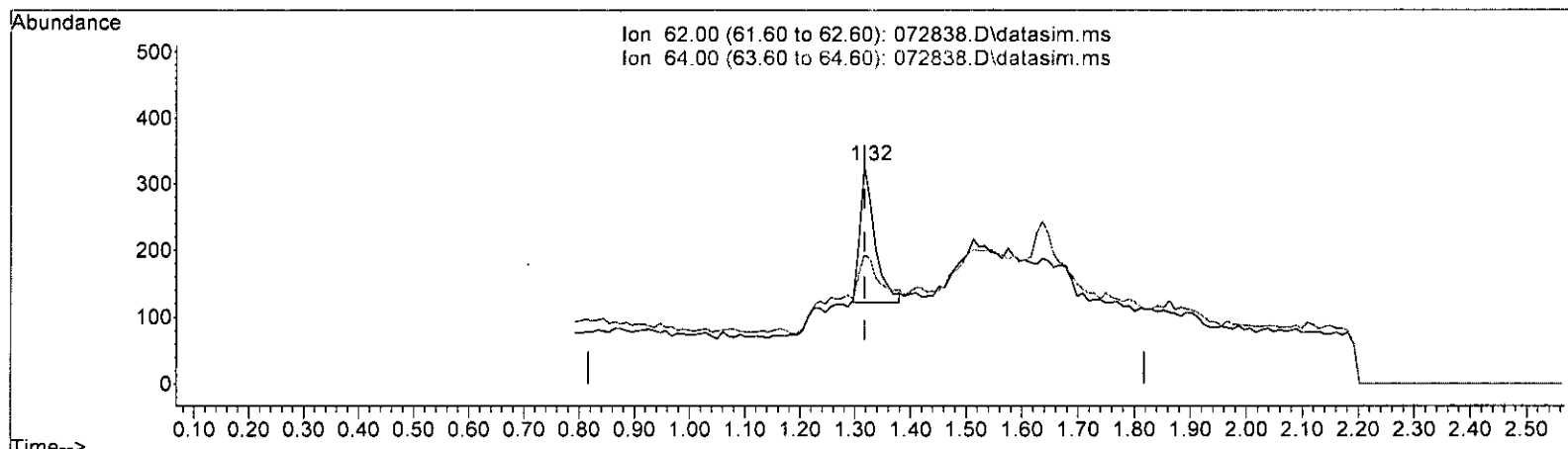
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	28.30
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

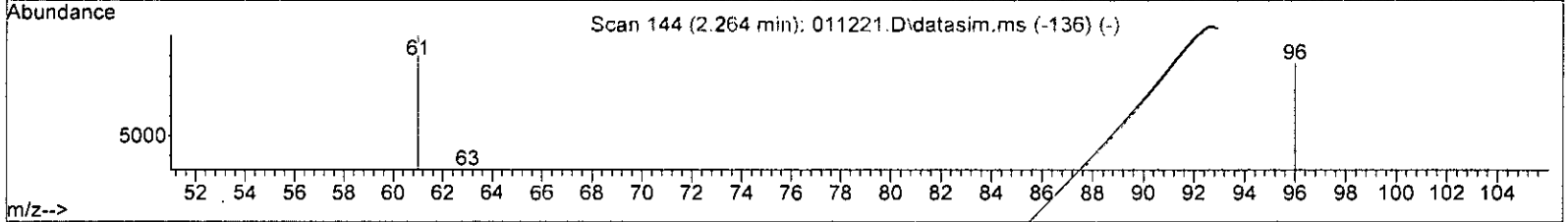
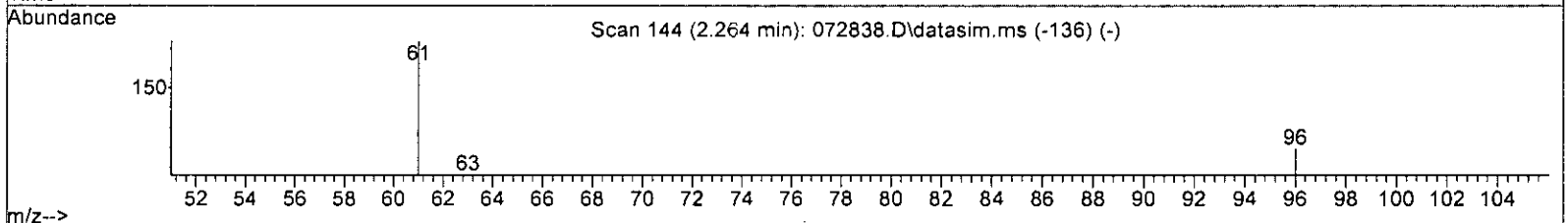
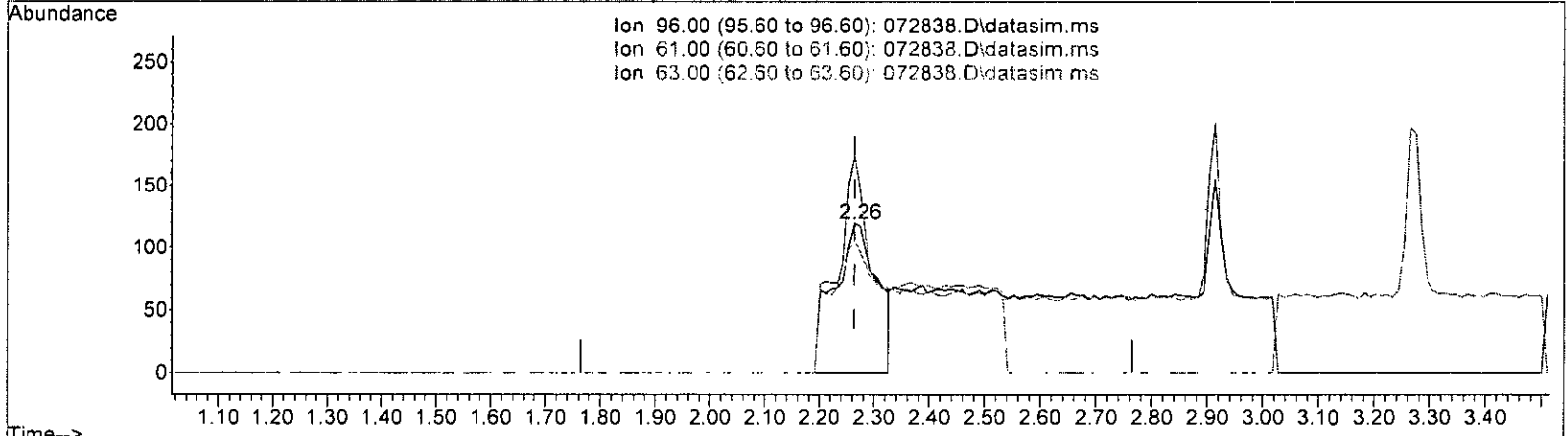
*ms 7/29*

(6) Vinyl chloride (TMP)		
1.317min (+ 0.000)	0.047 ppb m	
response	381	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	58.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (-0.000) 0.219 ppb

response 656

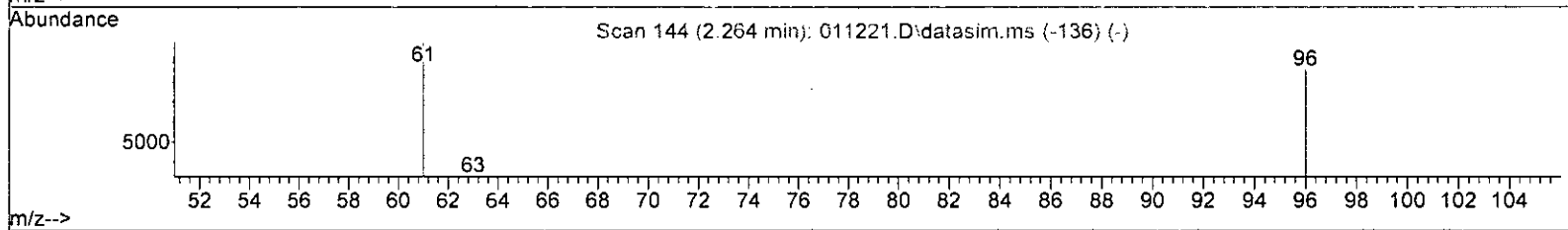
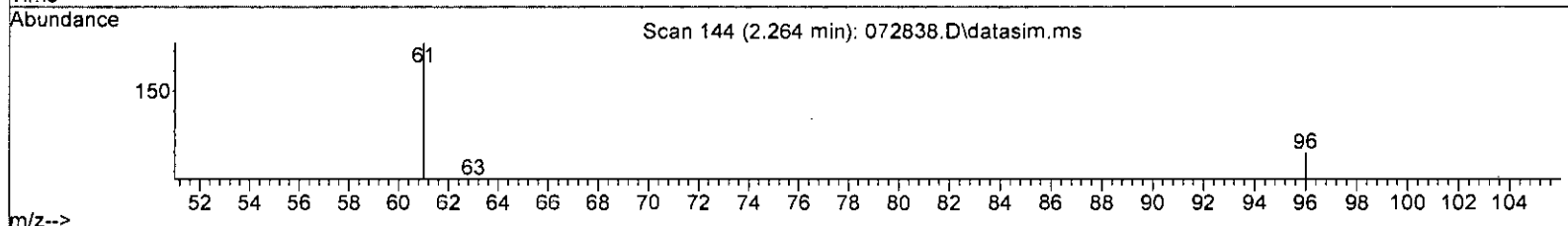
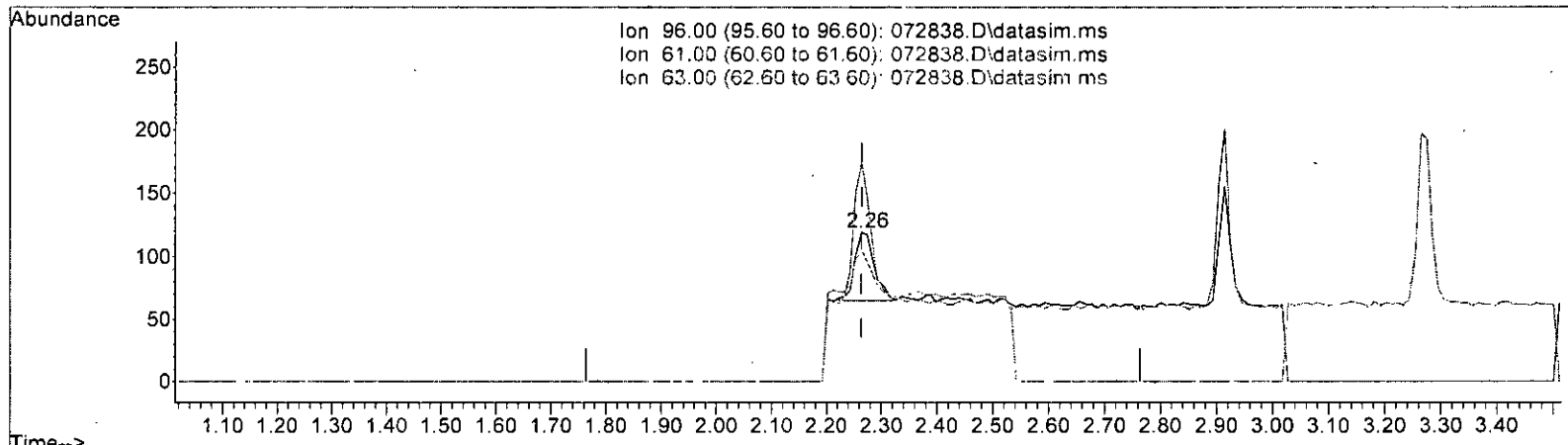
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	146.22
63.00	54.90	89.08#
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.264min (-0.000) 0.036 ppb m

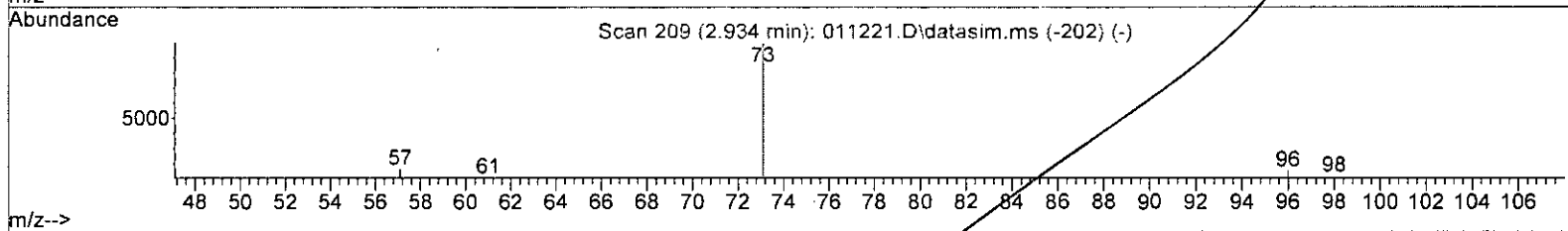
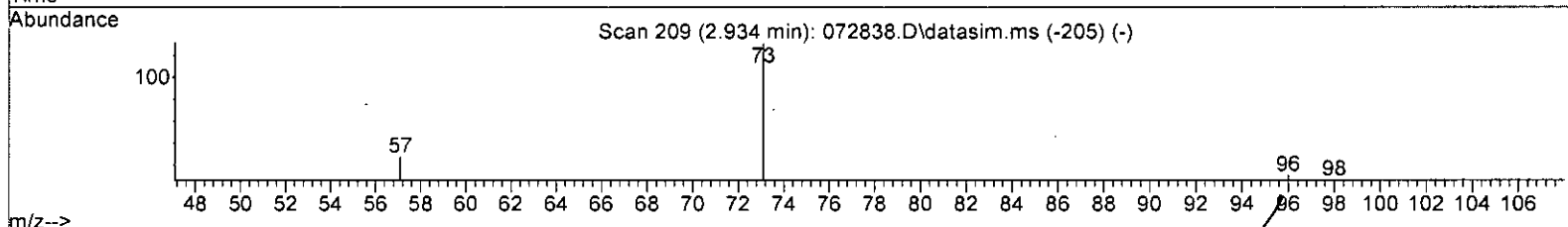
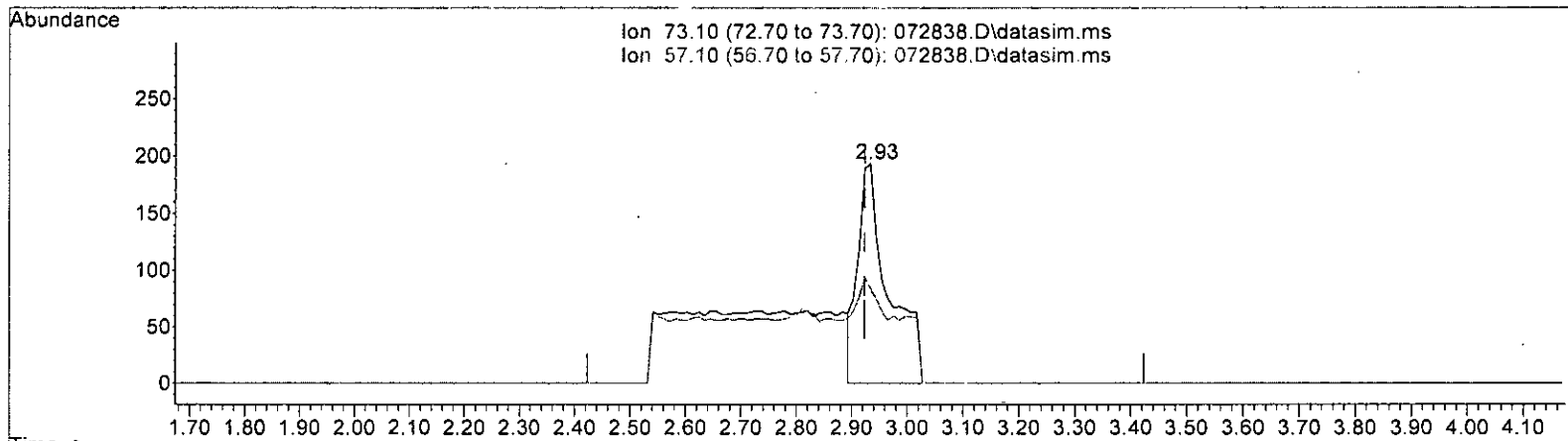
response	132
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 146.22
63.00	54.90 89.08#
0.00	0.00 0.00

W 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

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

2.934min (+ 0.010) 0.111 ppb

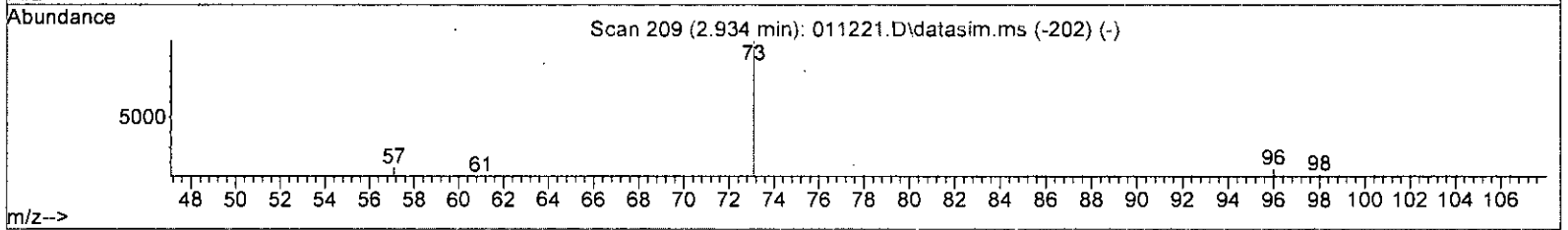
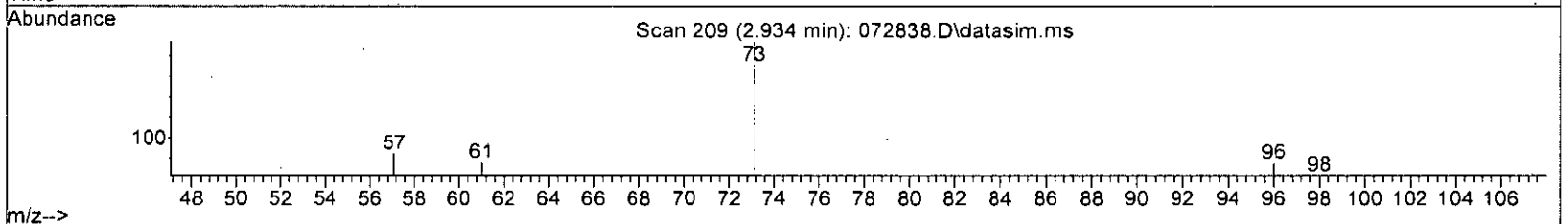
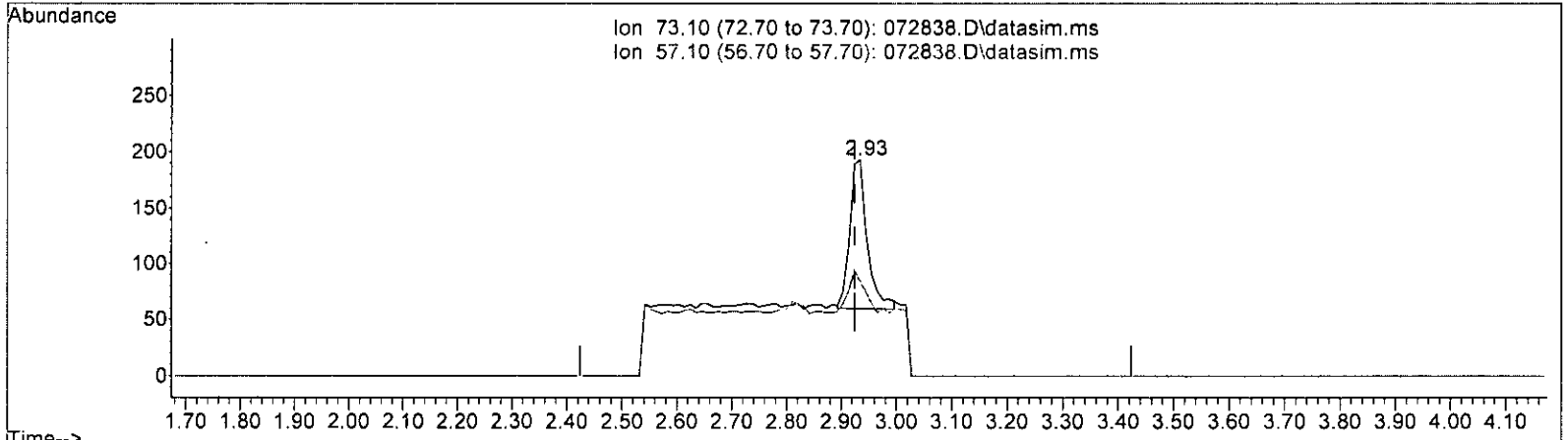
response	740
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 43.52
0.00	0.00 0.00
0.00	0.00 0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

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

2.934min (+ 0.010) 0.044 ppb m

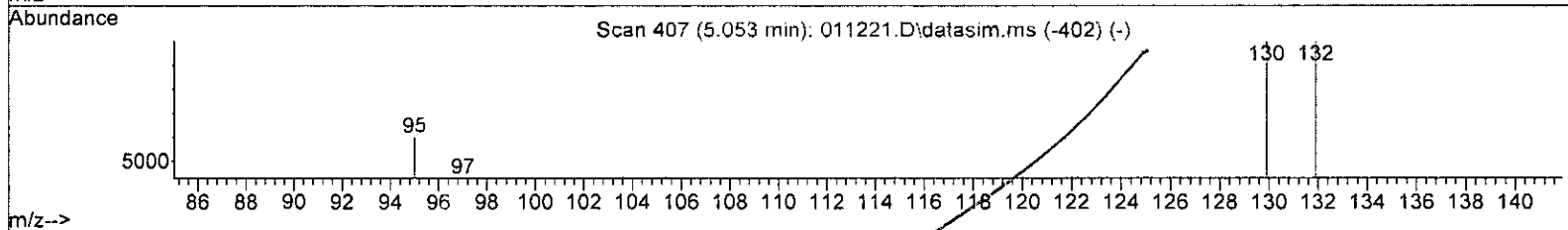
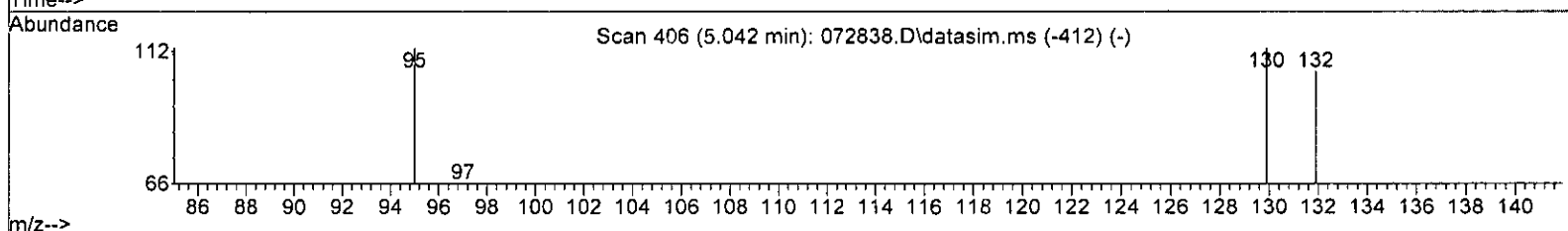
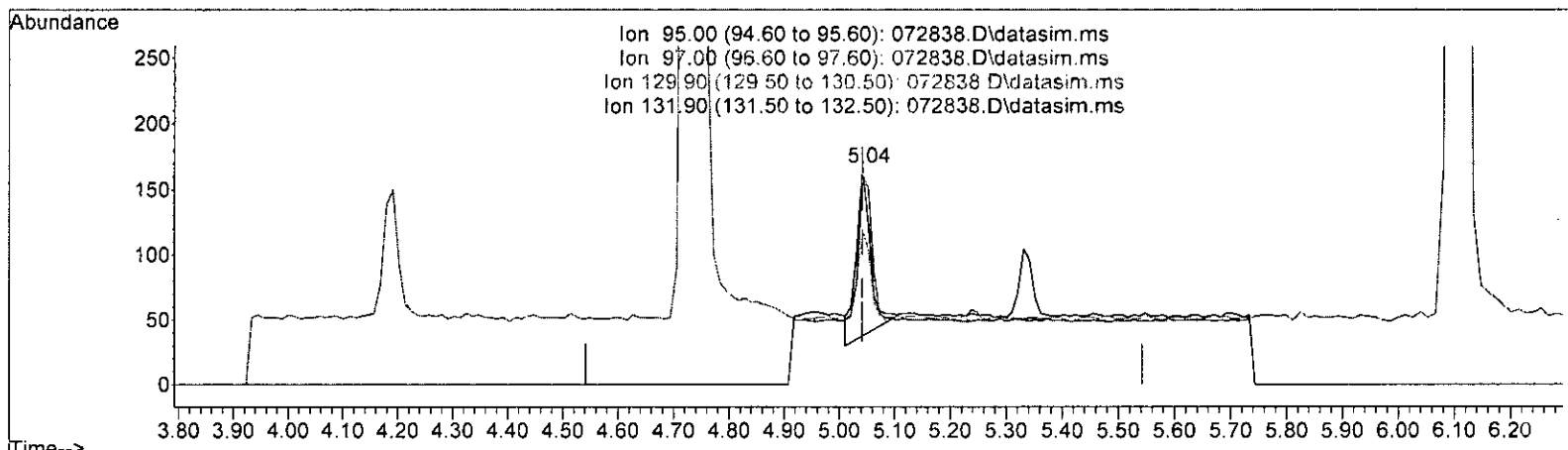
*m 7/29*

response	293
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 43.52
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.059 ppb

response 230

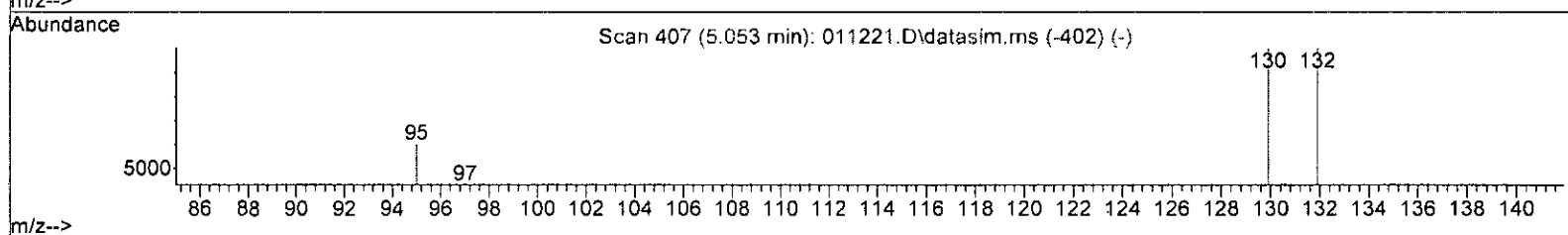
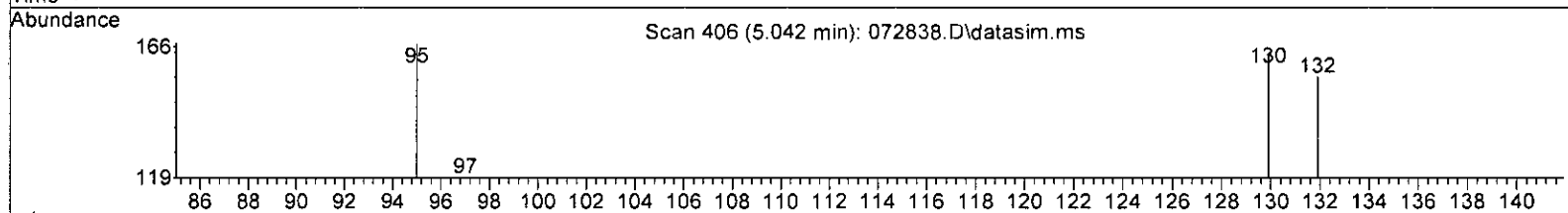
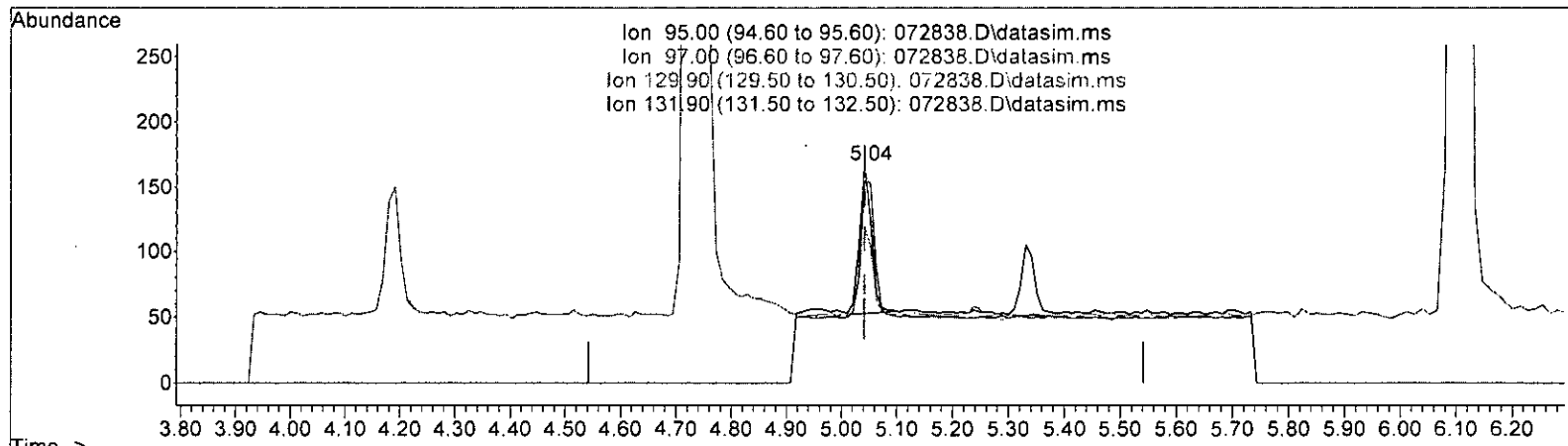
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	59.65
129.90	98.60	99.12
131.90	86.60	92.11

*v 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.038 ppb m

response 165

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	71.26
129.90	98.60	97.60
131.90	86.60	92.81

*m 7/29*



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	106121	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	79209	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36554	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	28291	9.825	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.20%	
30) 1,2-Dichloroethane-d4	4.45	102	6455	10.123	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	101.20%	
35) Toluene-d8	6.10	98	116473	9.879	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	98.80%	
57) 4-Bromofluorobenzene	8.50	95	33679	10.229	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	102.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.	d		
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.32	62	381m	0.047	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	132m	0.036	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	293m	0.044	ppb		
17] trans-1,2-Dichloroethene	2.91	96	141	0.036	ppb		91
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.26	63	246	0.048	ppb		90
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.76	96	145	0.047	ppb		87
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.52	62	336	0.051	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	177	0.041	ppb		96
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.49	78	557	0.043	ppb		86
32] Trichloroethene	5.04	95	165m	0.038	ppb		
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

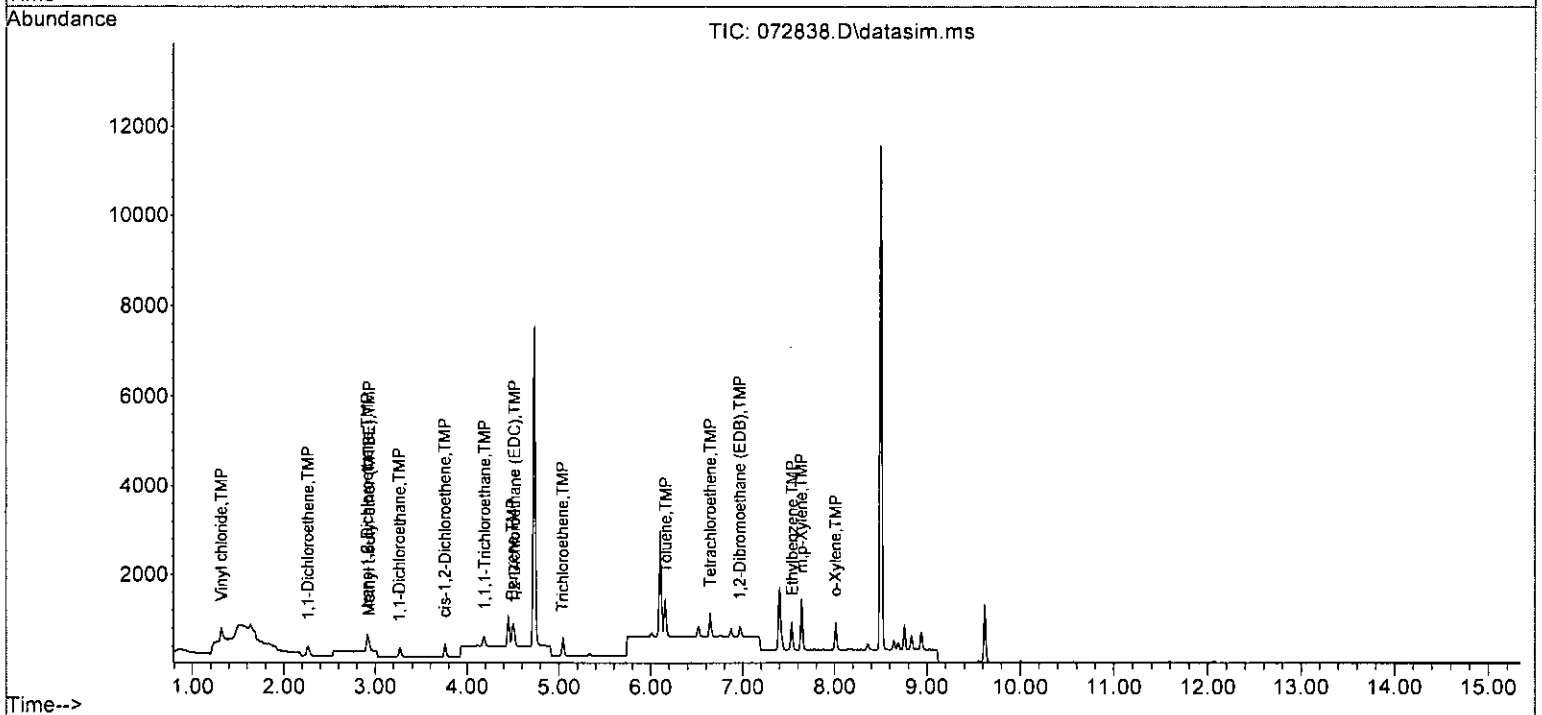
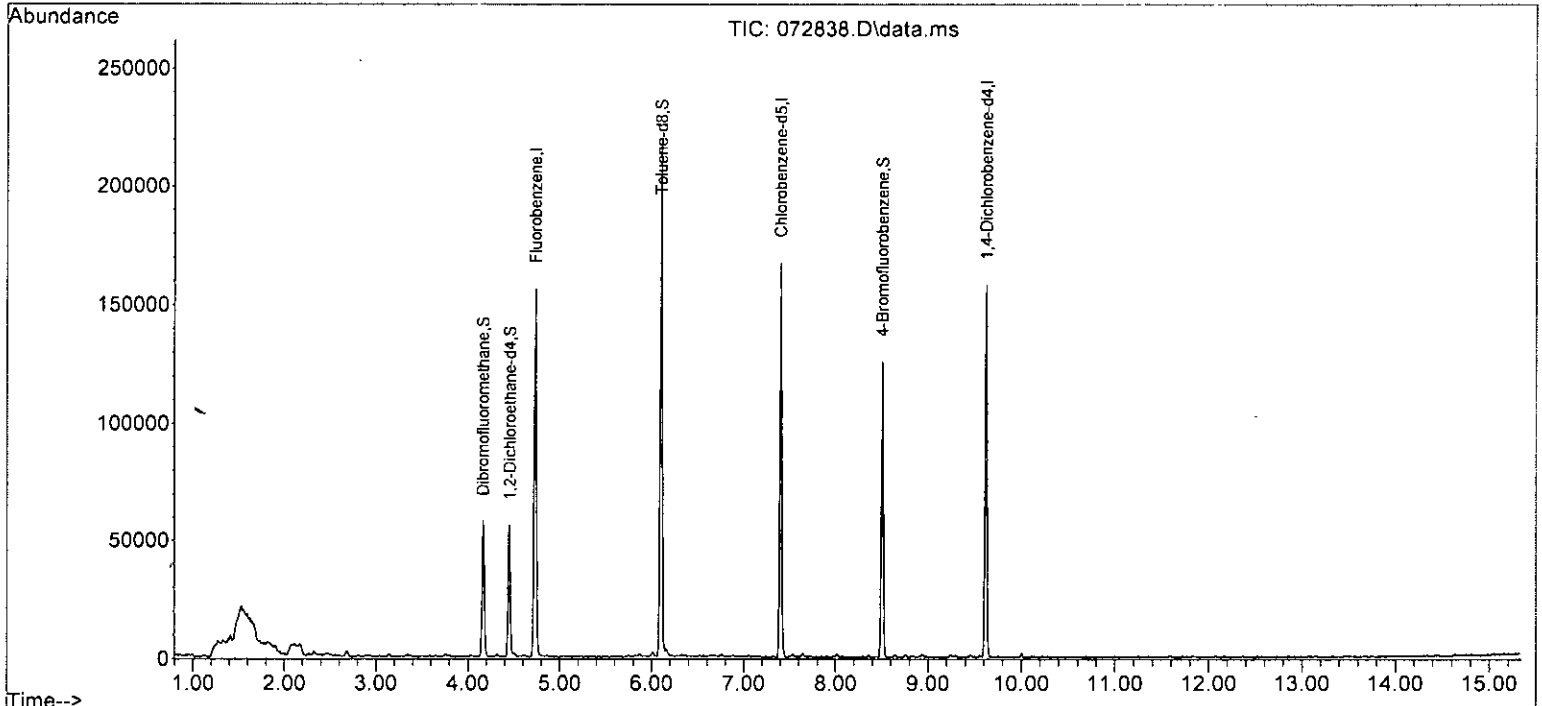
Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.16	92	463	0.043	ppb	90
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.64	164	183	0.038	ppb	95
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.97	107	189	0.048	ppb	100
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.54	91	650	0.042	ppb	97
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.64	106	507	0.084	ppb	100
52] o-Xylene	8.01	106	239	0.043	ppb	99
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
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 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
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Quant Time: Jul 29 09:23:05 2023  
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 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S	Dibromofluoromethane	10.000	9.825	1.8	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.040	0.047	-17.5	95	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.040	0.036	10.0	91	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.040	0.044	-10.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.040	0.036	10.0	100	0.00
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.040	0.048	-20.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.040	0.047	-17.5	100	0.00
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.040	0.051	-27.5#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.040	0.041	-2.5	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S	1,2-Dichloroethane-d4	10.000	10.123	-1.2	100	0.00
31 TMP	Benzene	0.040	0.043	-7.5	100	0.00
32 TMP	Trichloroethene	0.040	0.038	5.0	93	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S	Toluene-d8	10.000	9.879	1.2	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.040	0.043	-7.5	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45	TMP Tetrachloroethene	0.040	0.038	5.0	100	0.00
46	TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47	TMP 1,2-Dibromoethane (EDB)	0.040	0.048	-20.0	100	0.00
48	TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49	TMP Ethylbenzene	0.040	0.042	-5.0	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51	TMP m,p-Xylene	0.080	0.084	-5.0	100	0.00
52	TMP o-Xylene	0.040	0.043	-7.5	100	0.00
53	TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54	TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55	TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	5 4-Bromofluorobenzene	10.000	10.229	-2.3	100	0.00
58	TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59	TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60	TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61	TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62	TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.69#
63	TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64	TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65	TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66	TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67	TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68	TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69	TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70	TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71	TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72	TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73	TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74	TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75	TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76	TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

5PCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.267	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.898	-16.8	95	0.00
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.311	-8.0	91	0.00
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.690	-10.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.332	-17.7	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.580	-19.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.342	-18.3	100	0.00
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.792	-71.4#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.417	-2.7	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	1.042	1.312	-25.9#	100	0.00
32 TMP	Trichloroethene	0.326	0.389	-19.3	93	0.00
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	1.098	1.2	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.461	-33.8#	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.578	-29.6#	100	0.00
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.597	-27.3#	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	2.052	-27.5#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.800	-27.0#	100	0.00
52 TMP o-Xylene	0.606	0.754	-24.4#	100	0.00
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.921	-2.2	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.000#	100.0#	0#	-8.69#
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

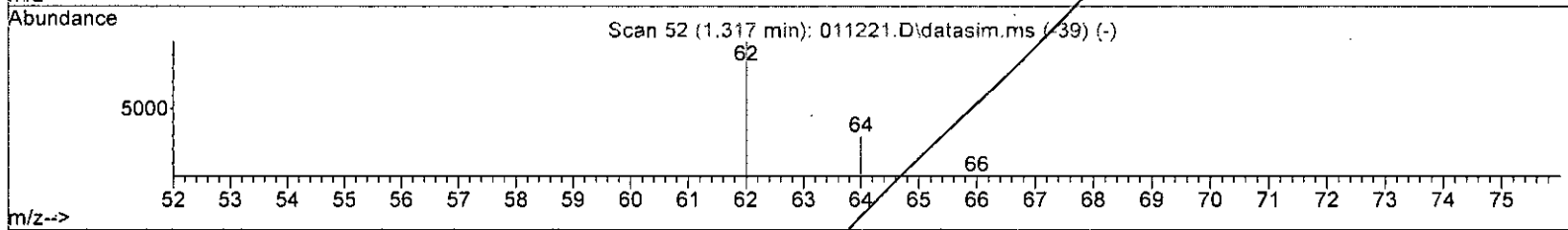
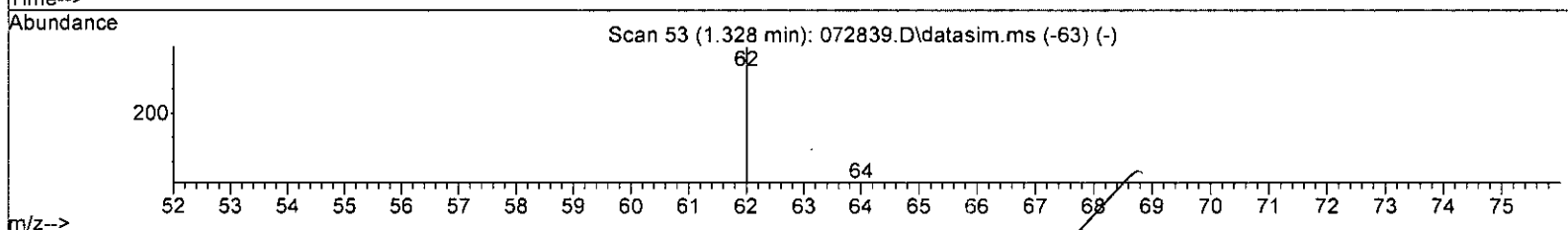
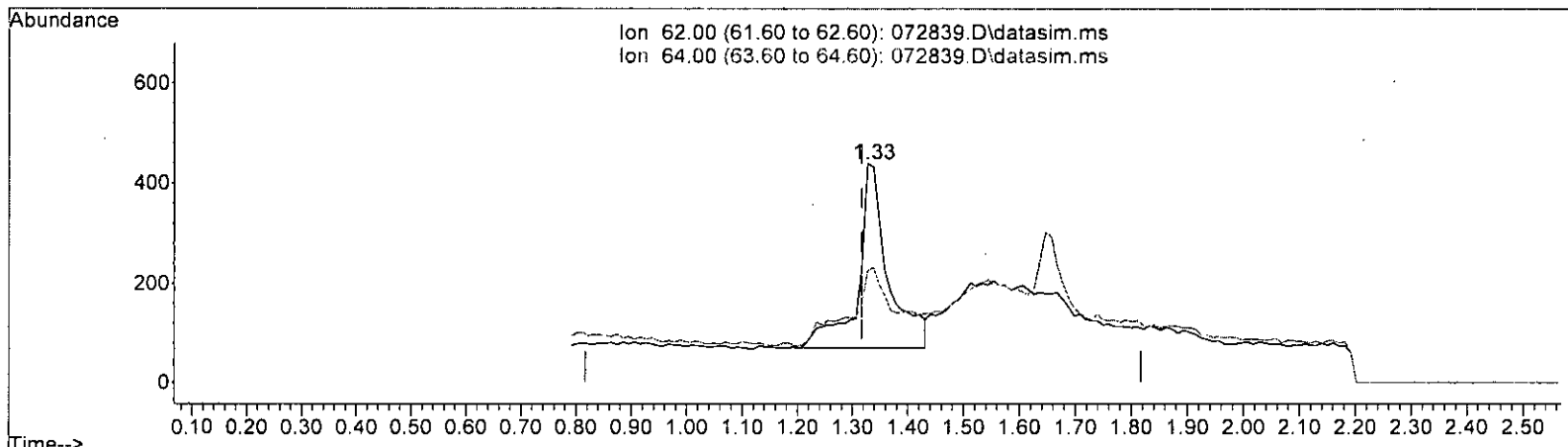
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:08 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.000 ppb

response 1391

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	39.51
0.00	0.00	0.00
0.00	0.00	0.00

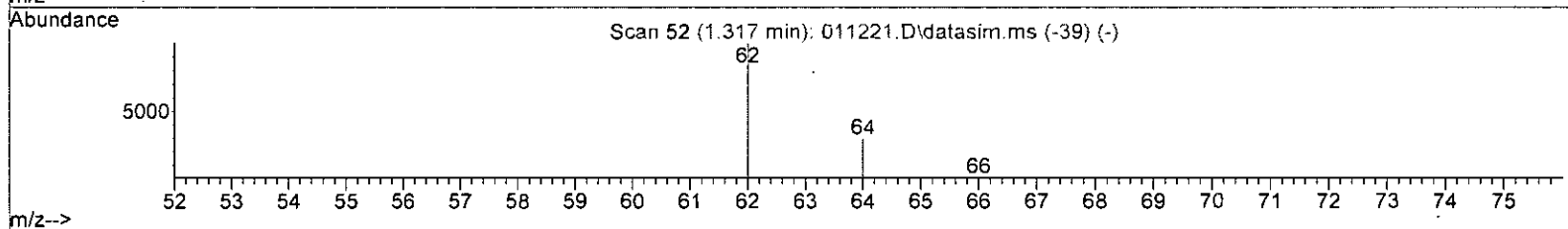
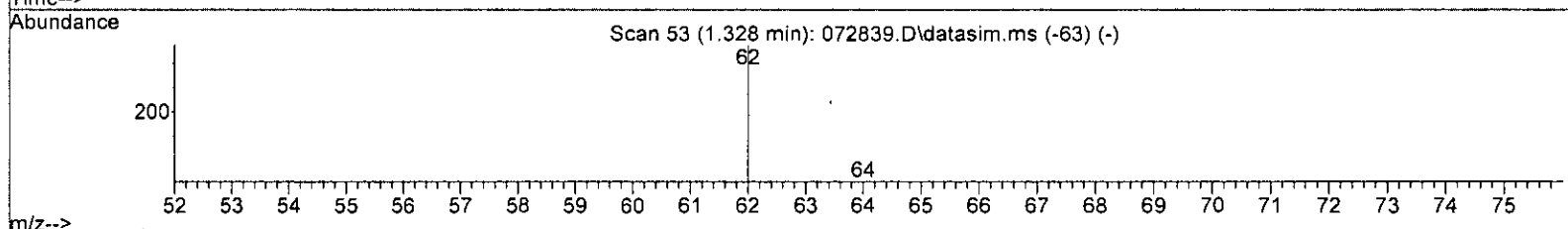
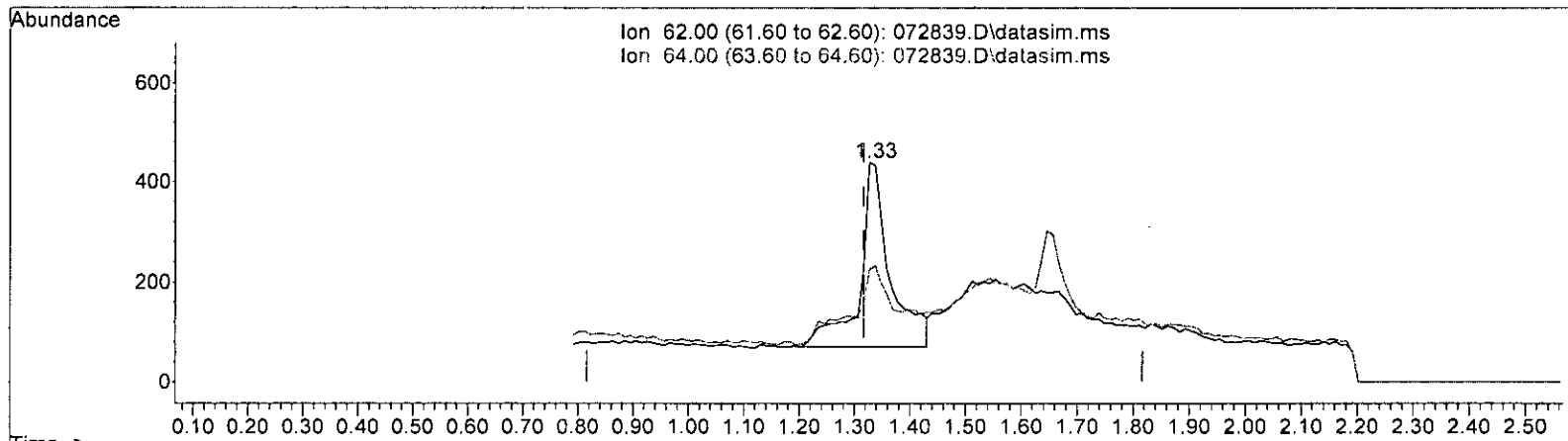
m 7/29



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

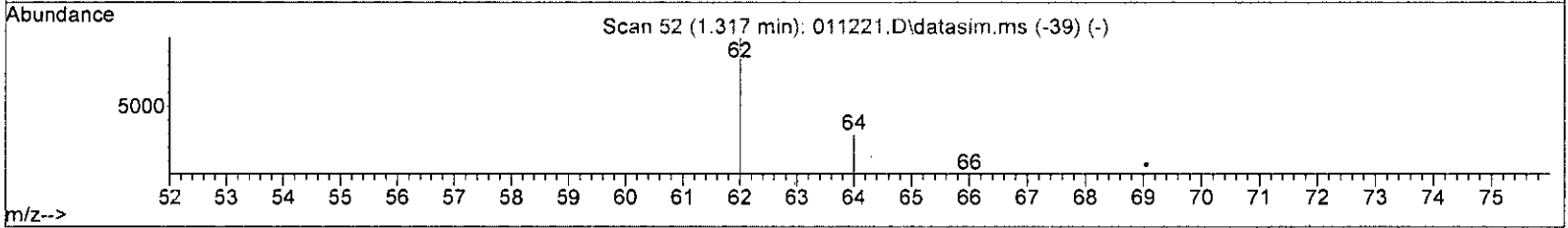
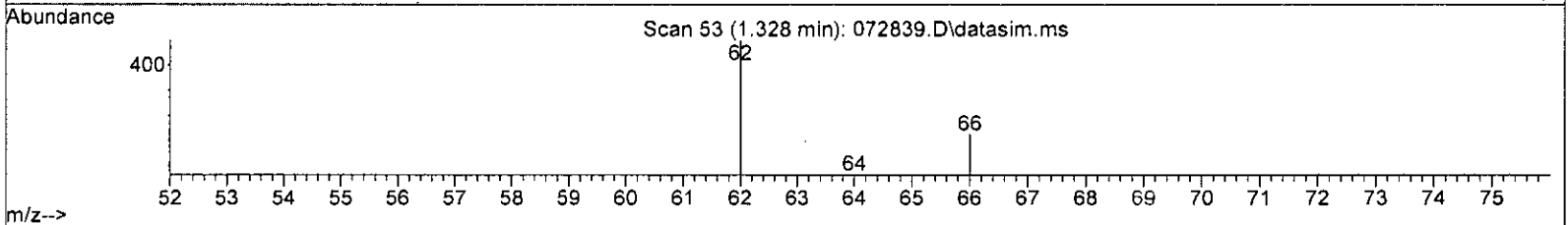
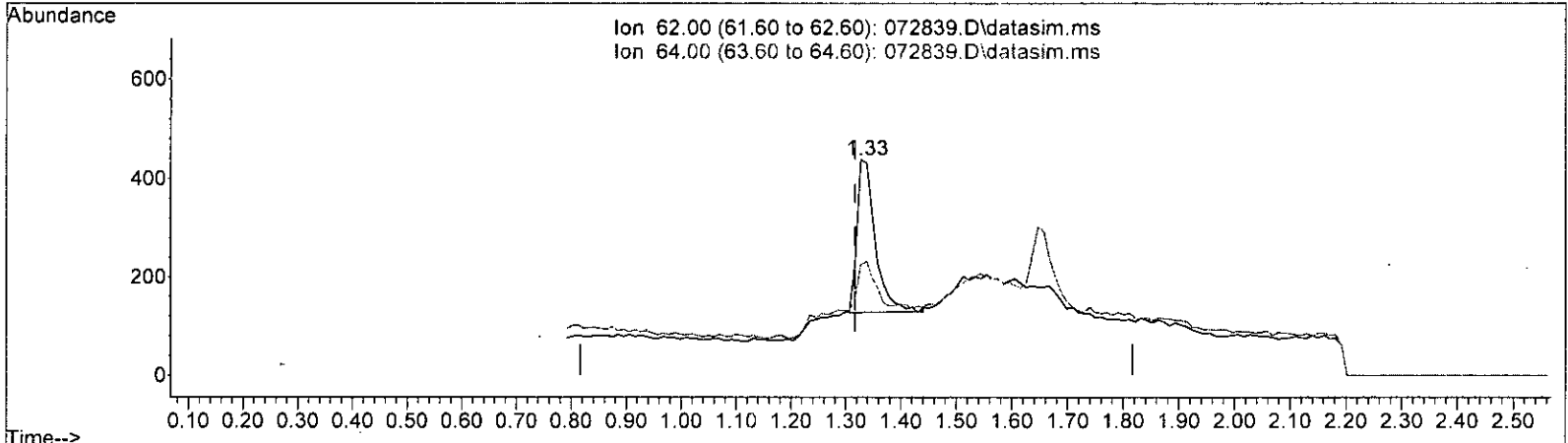
(6) Vinyl chloride (TMP)			
1.328min (+ 0.011)	0.172 ppb		
response	1391		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	39.51	
0.00	0.00	0.00	
0.00	0.00	0.00	

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms *m 7/29*

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.089 ppb m

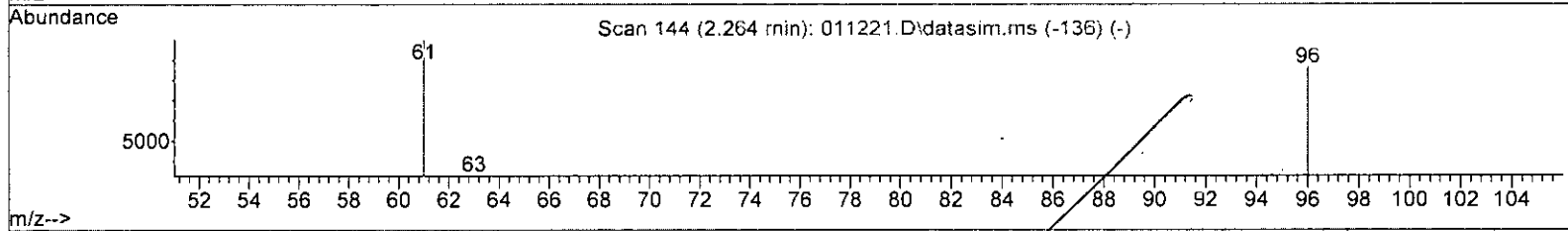
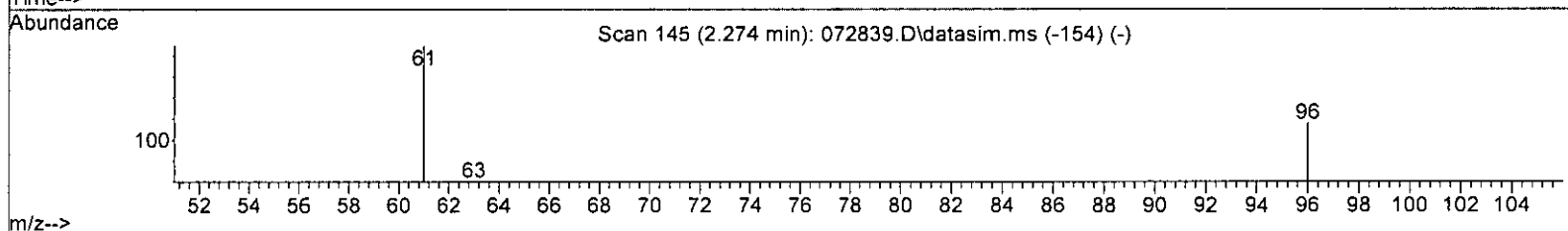
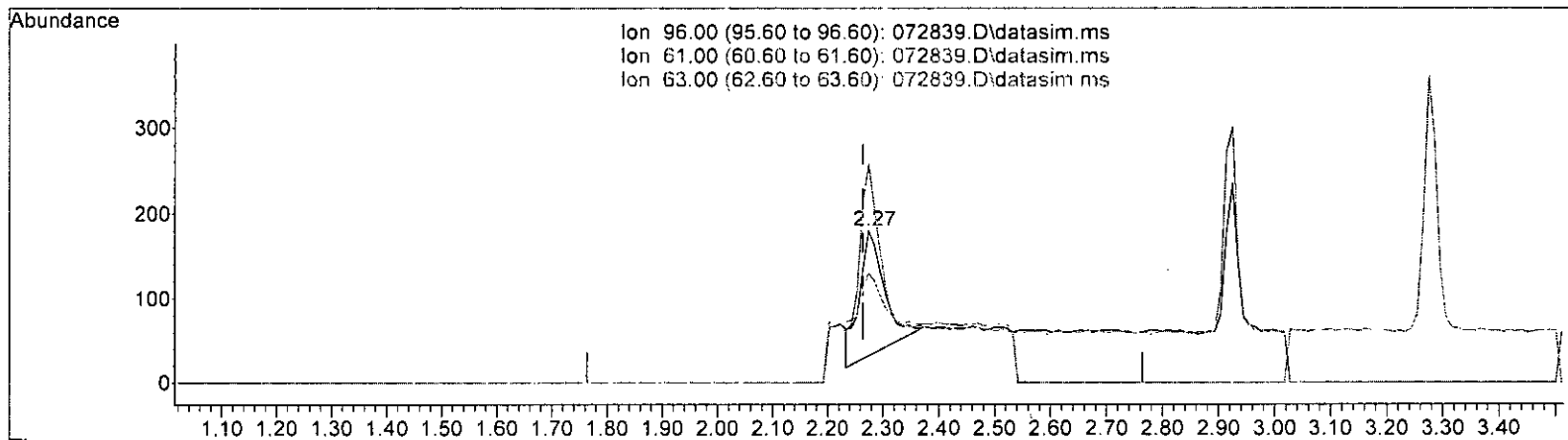
response 717

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	51.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.152 ppb

response 460

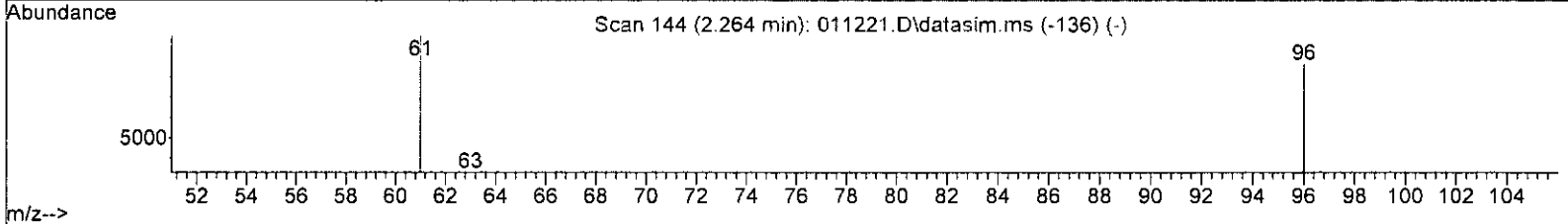
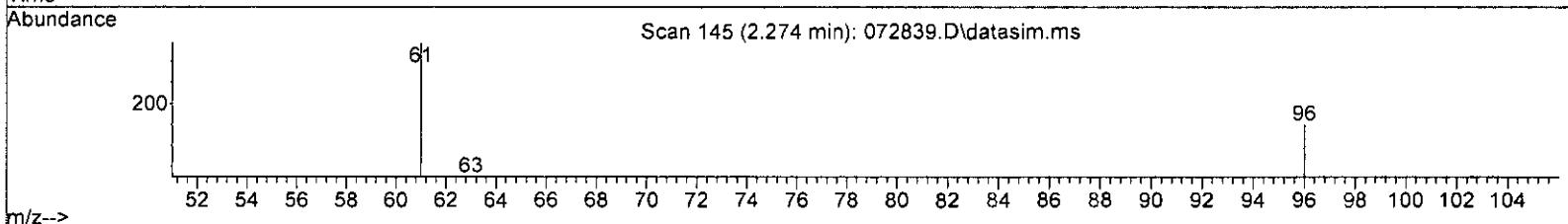
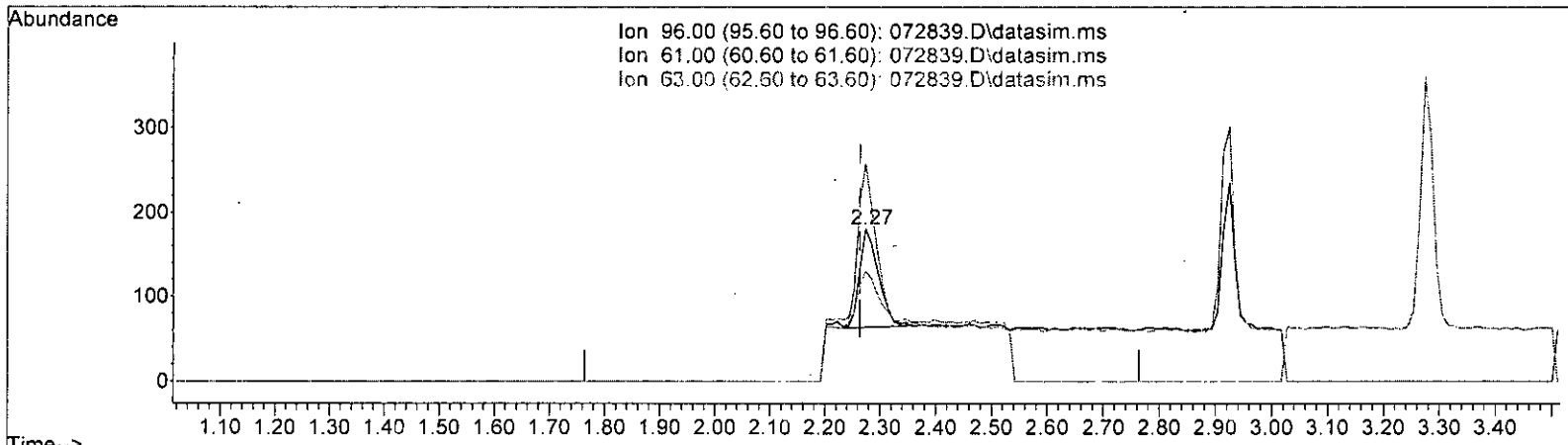
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	168.10
63.00	54.90	51.72
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(12) 1,1-Dichloroethene (TMP) *as 7/29*

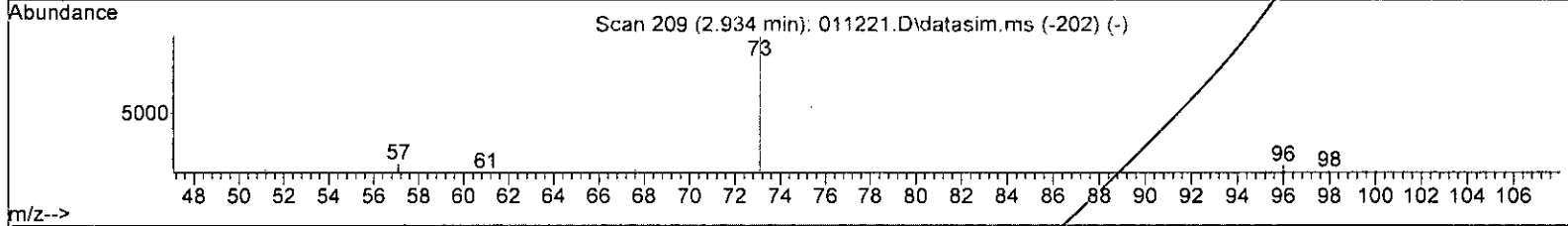
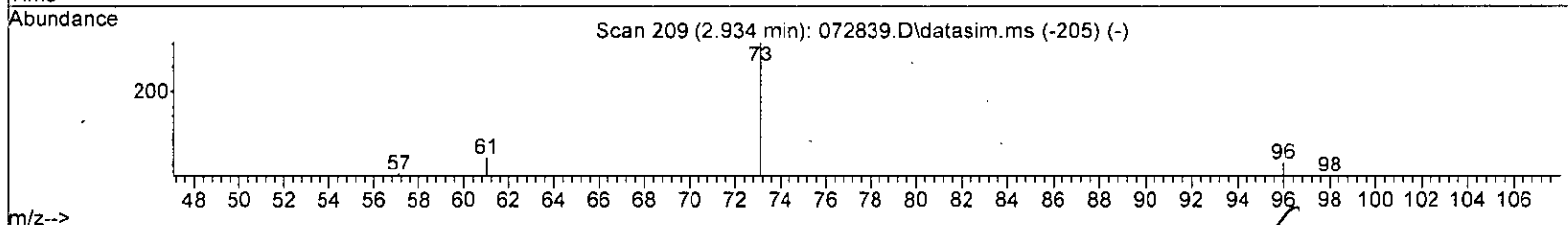
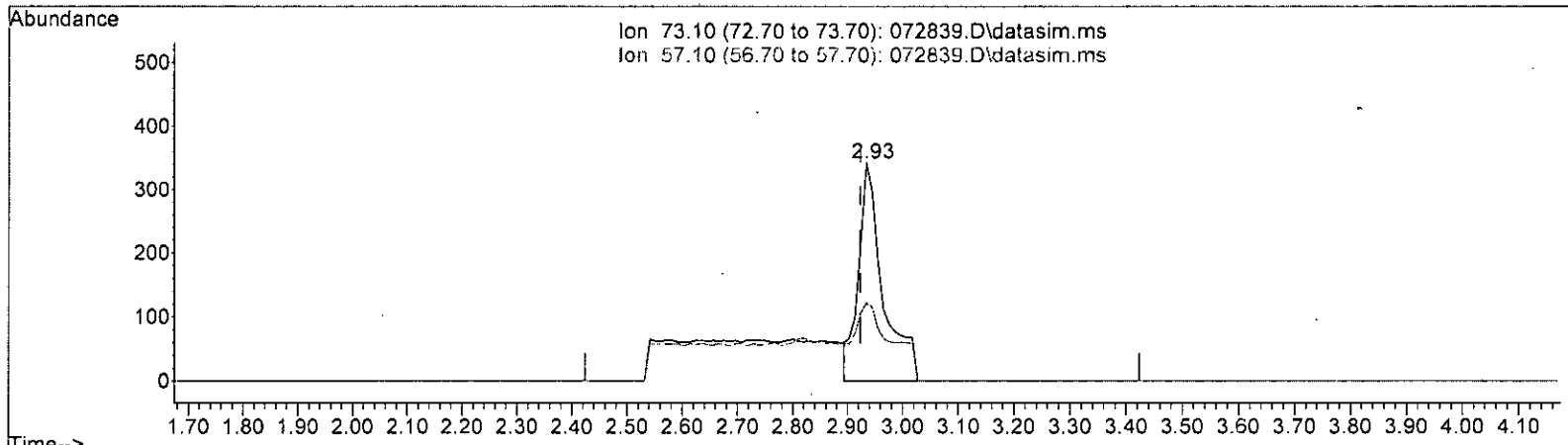
2.274min (+ 0.010) 0.088 ppb m

response	279
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 142.78
63.00	54.90 72.22
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP) *u 7/29*

2.934min (+ 0.010) 0.158 ppb

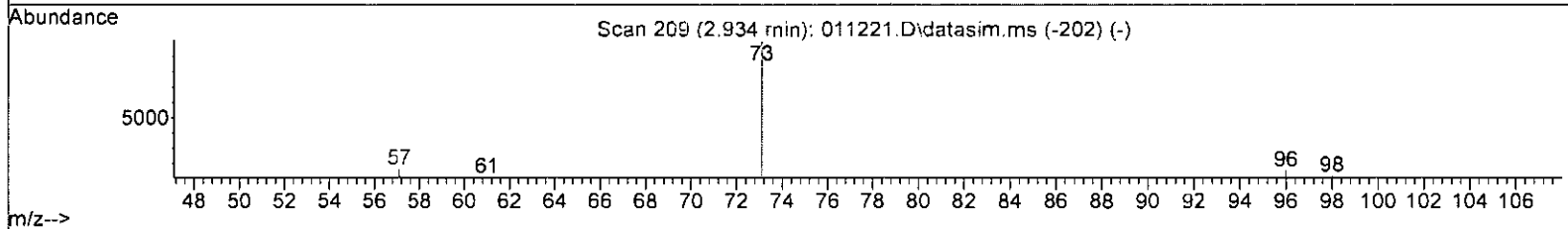
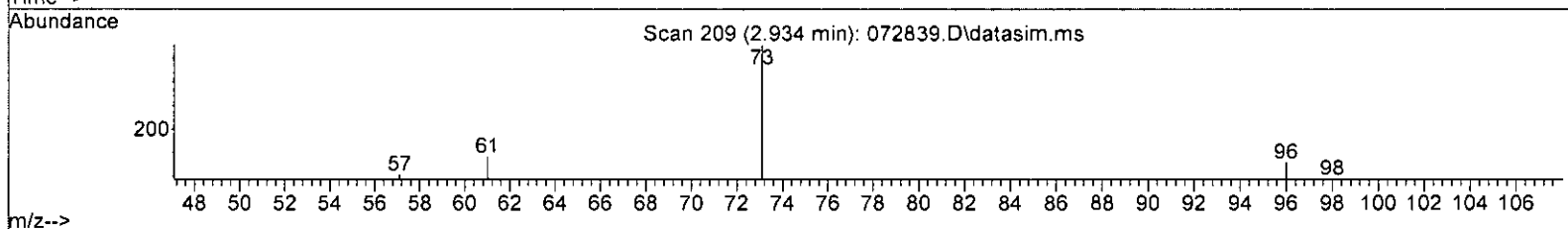
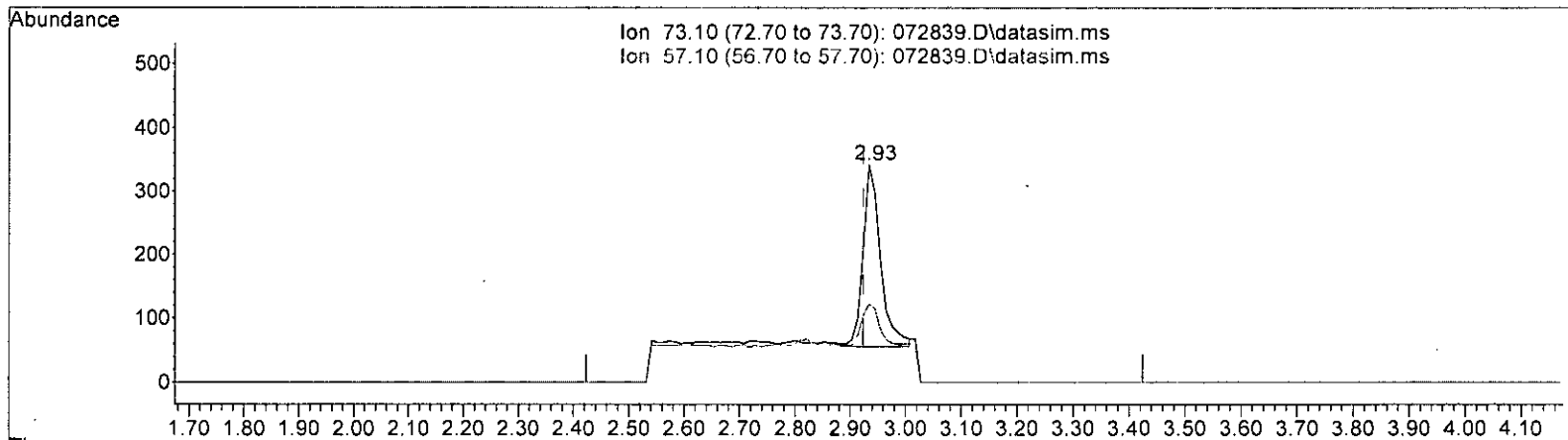
response 1042

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	35.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

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

2.934min (+ 0.010) 0.094 ppb m

response 621

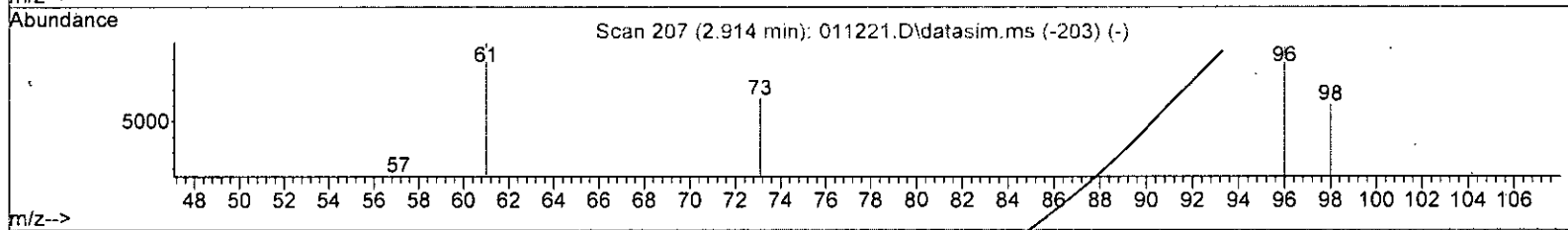
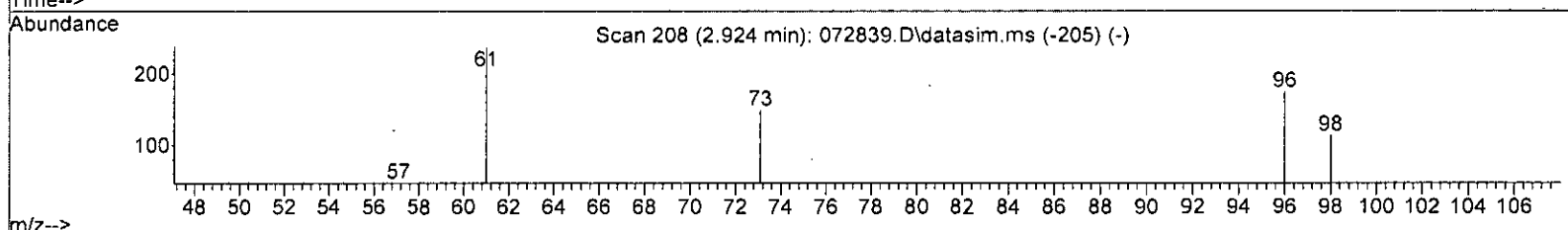
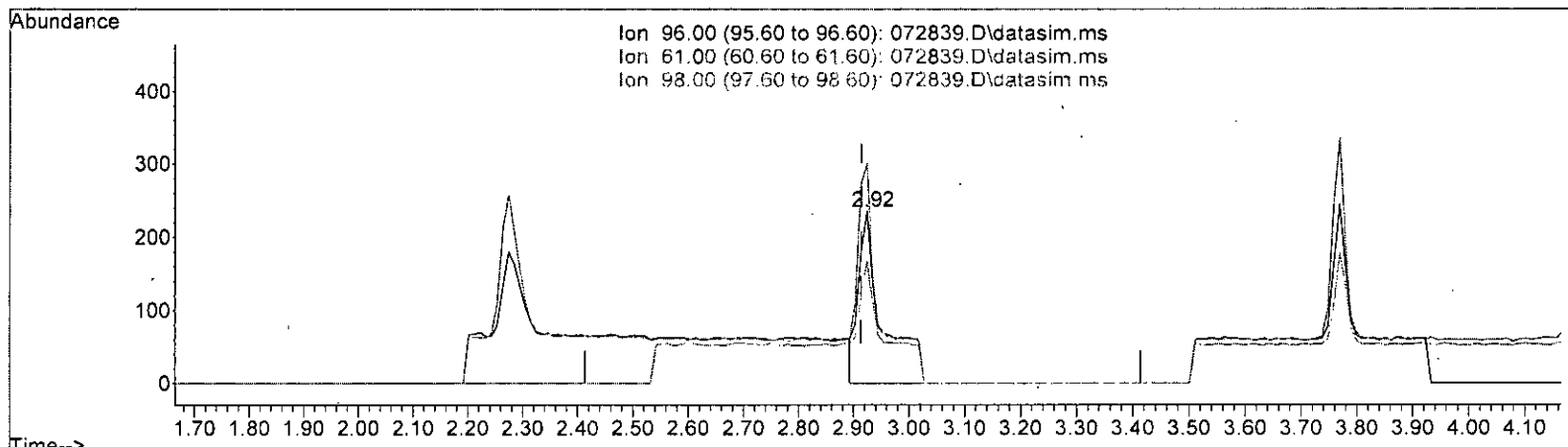
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	35.38
0.00	0.00	0.00
0.00	0.00	0.00

*MD 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) m 7/29

2.924min (+ 0.010) 0.251 ppb

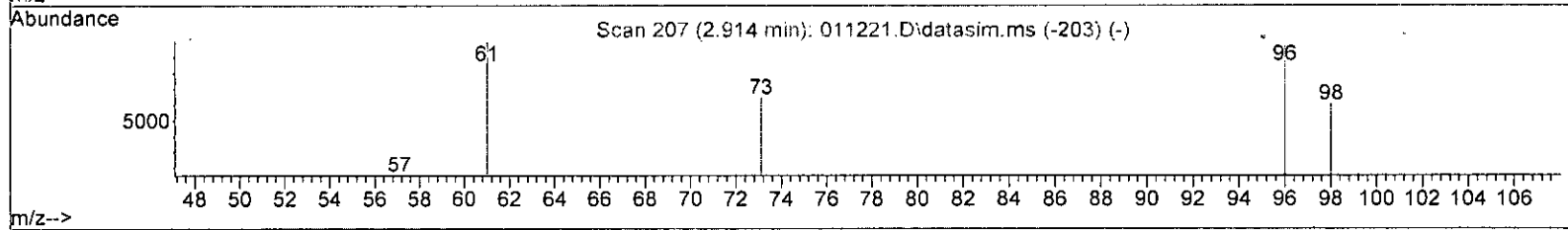
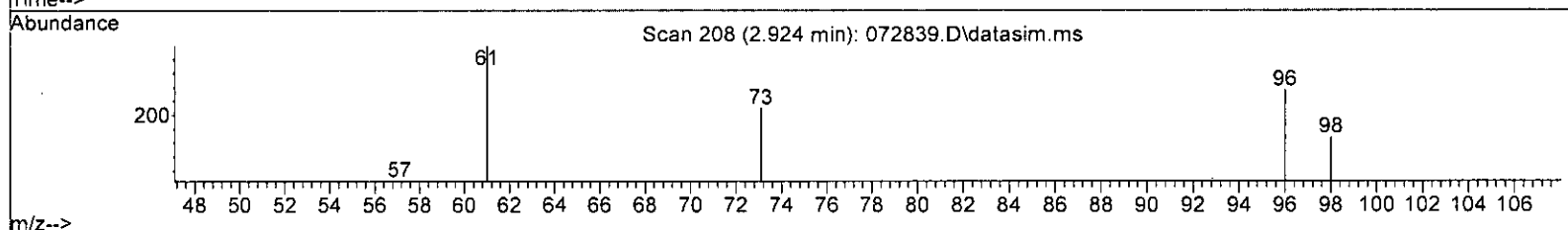
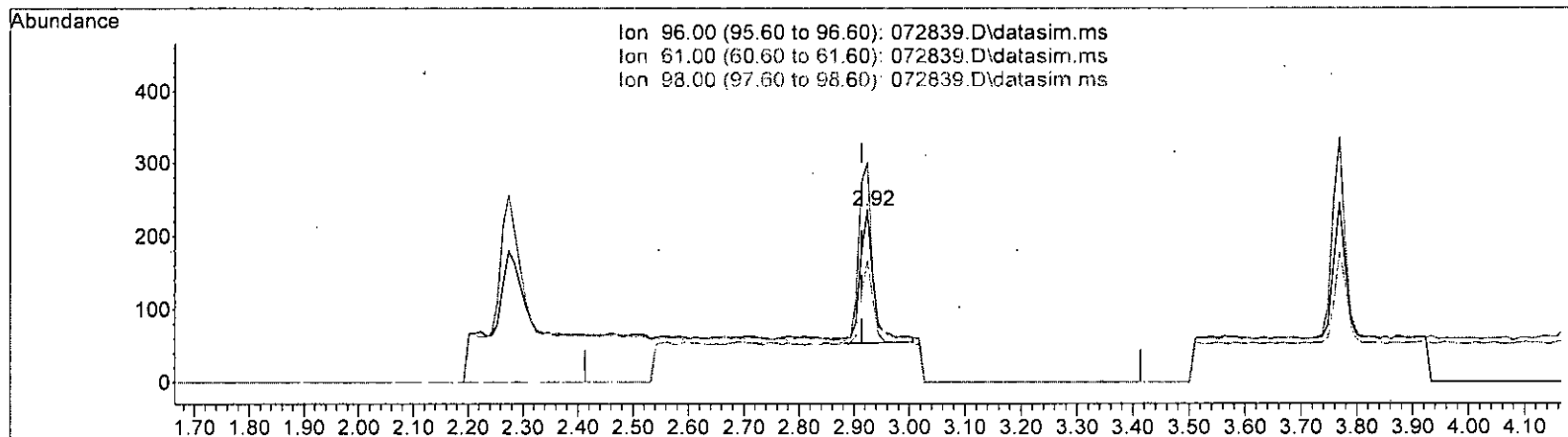
response 715

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	127.66#
98.00	60.80	71.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *u 7/28*

2.924min (+ 0.010) 0.101 ppb m

response 314

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	127.66#
98.00	60.80	71.06
0.00	0.00	0.00



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	105154	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	79313	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36878	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	29004	10.165	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.60%	
30) 1,2-Dichloroethane-d4	4.45	102	6300	9.970	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	99.70%	
35) Toluene-d8	6.10	98	115234	9.863	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	98.60%	
57) 4-Bromofluorobenzene	8.50	95	34572	10.408	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	104.10%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.	d		
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	717m	0.089	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.27	96	279m	0.088	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	621m	0.094	ppb		
17] trans-1,2-Dichloroethene	2.92	96	314m	0.101	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.27	63	483	0.095	ppb		96
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.77	96	283	0.093	ppb		96
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.52	62	484	0.089	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	386	0.090	ppb		97
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.50	78	1019	0.089	ppb		97
32] Trichloroethene	5.04	95	316	0.087	ppb		93
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

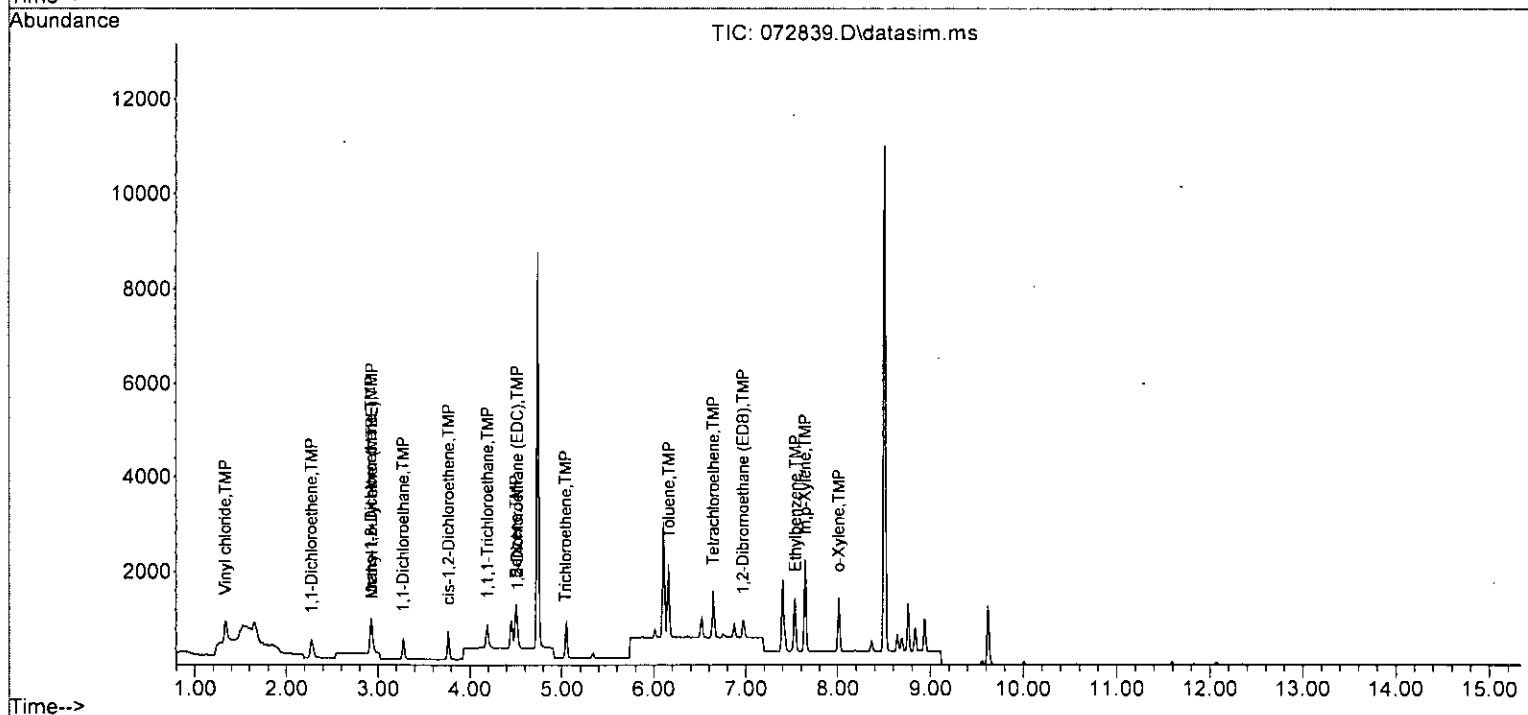
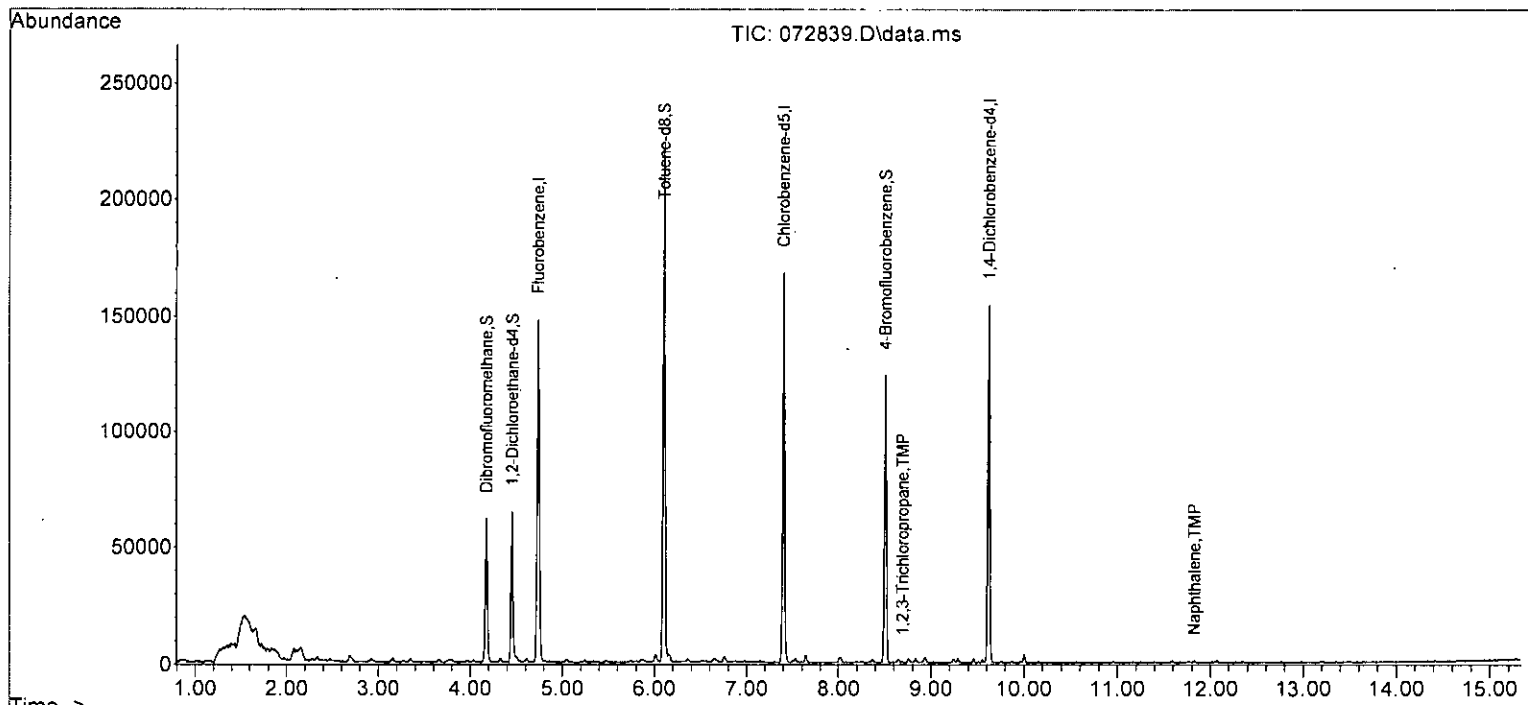
Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.16	92	828	0.090	ppb	95
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.64	164	348	0.091	ppb	96
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.97	107	318	0.086	ppb	97
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.54	91	1160	0.086	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.64	106	913	0.172	ppb	100
52] o-Xylene	8.01	106	437	0.087	ppb	99
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	8.69	75	319	0.131	ppb #	42
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.82	128	805	0.102	ppb	82
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S	Dibromofluoromethane	10.000	10.165	-1.6	100	0.01
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.100	0.089	11.0	113	0.01
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.100	0.088	12.0	94	0.01
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.100	0.094	6.0	95	0.01
17 TMP	trans-1,2-Dichloroethene	0.100	0.101	-1.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.100	0.095	5.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.100	0.093	7.0	100	0.01
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.100	0.089	11.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.100	0.090	10.0	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S	1,2-Dichloroethane-d4	10.000	9.970	0.3	100	0.00
31 TMP	Benzene	0.100	0.089	11.0	100	0.01
32 TMP	Trichloroethene	0.100	0.087	13.0	100	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S	Toluene-d8	10.000	9.863	1.4	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.100	0.090	10.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.100	0.091	9.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.086	14.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.100	0.086	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51 TMP m,p-Xylene	0.200	0.172	14.0	100	0.00
52 TMP o-Xylene	0.100	0.087	13.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.408	-4.1	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62 TMP 1,2,3-Trichloropropane	0.100	0.131	-31.0#	100	0.00
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	0.100	0.102	-2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.276	-1.8	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.682	11.3	113	0.01
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.265	8.0	94	0.01
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.591	5.7	95	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.299	-6.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.459	5.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.269	6.9	100	0.01
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.460	0.4	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.367	9.6	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	1.042	0.969	7.0	100	0.01
32 TMP	Trichloroethene	0.326	0.301	7.7	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	1.096	1.4	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.044	4.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.439	1.6	100	0.00
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.401	14.5	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	1.463	9.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.576	8.6	100	0.00
52 TMP o-Xylene	0.606	0.551	9.1	100	0.00
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.937	-4.0	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.865	-31.5#	100	0.00
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	2.183	-2.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

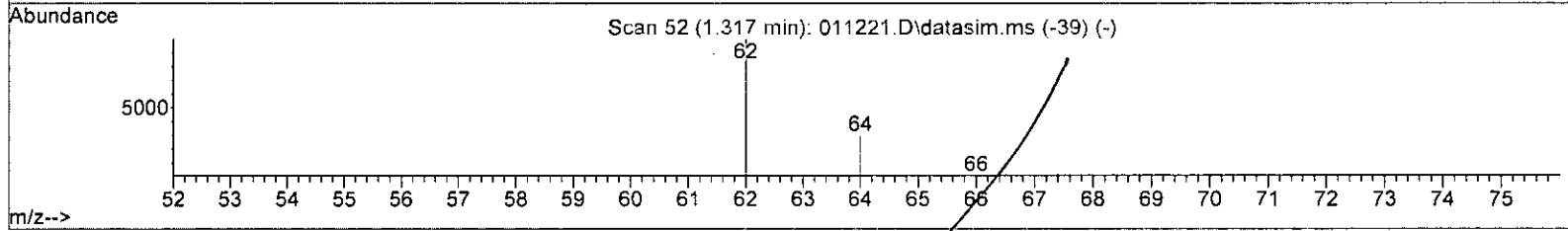
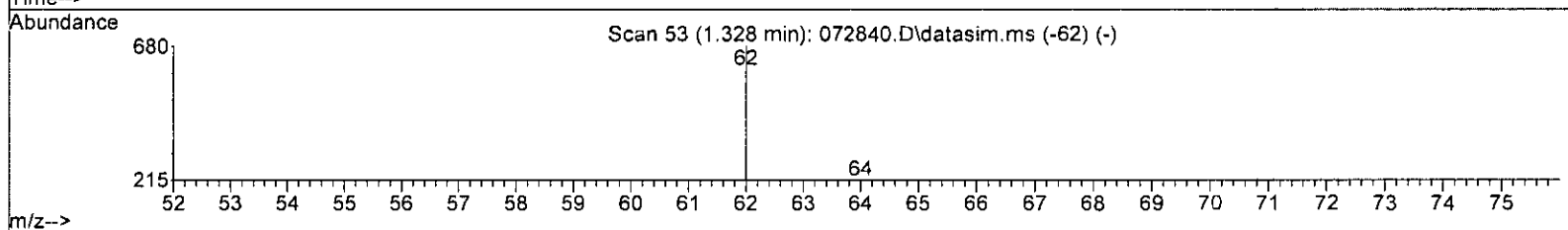
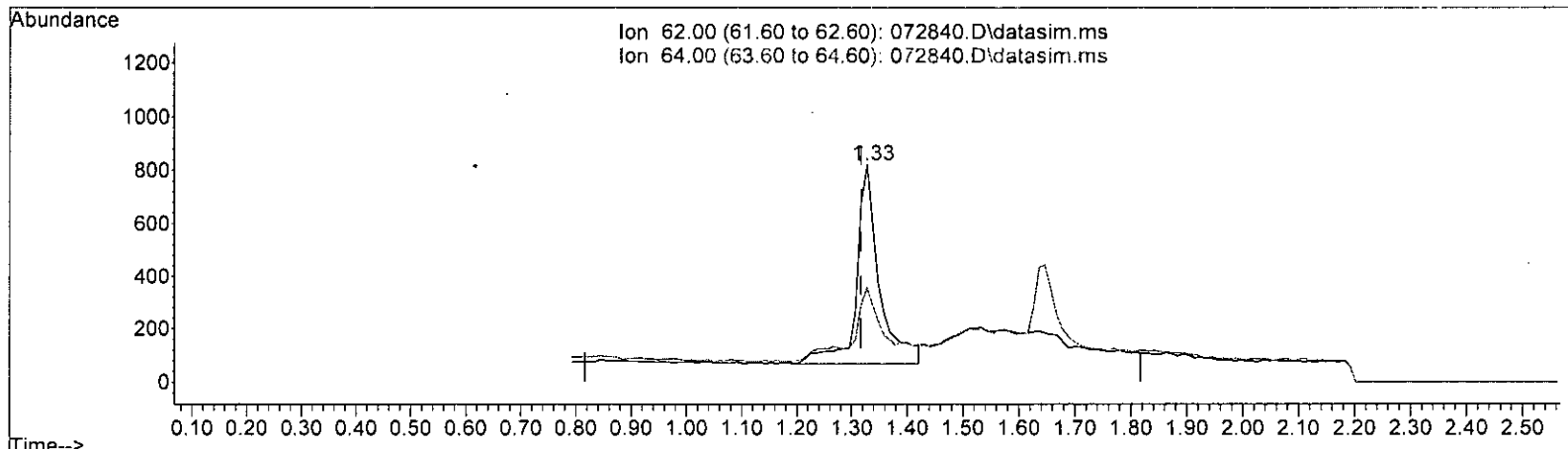
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

*m 7/29*

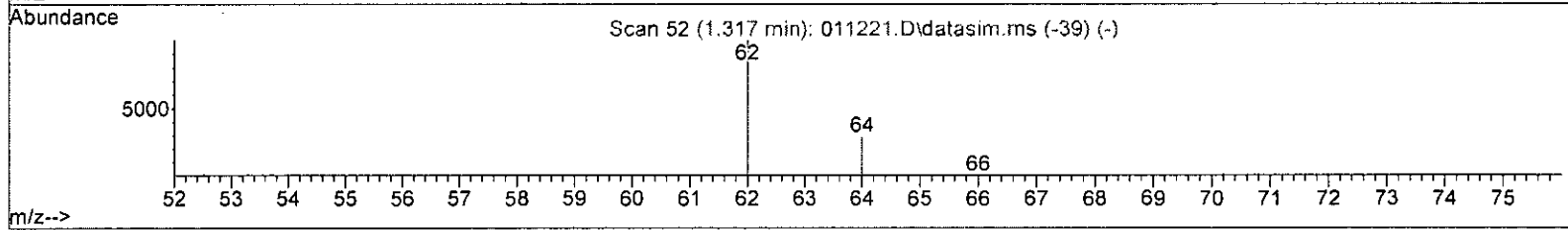
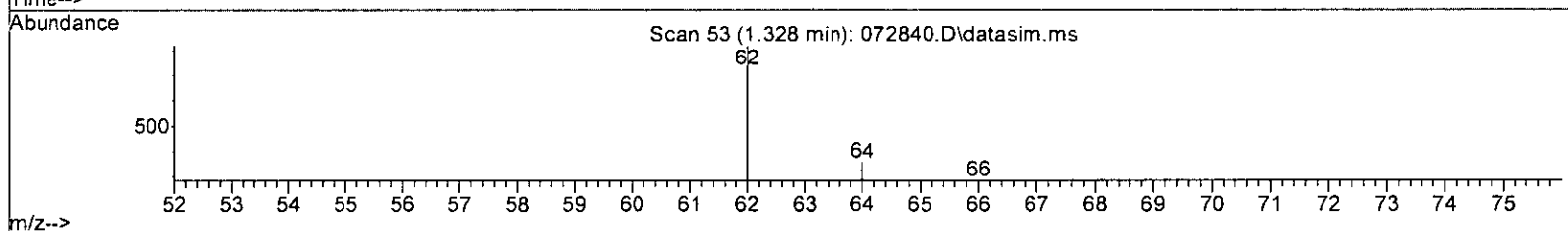
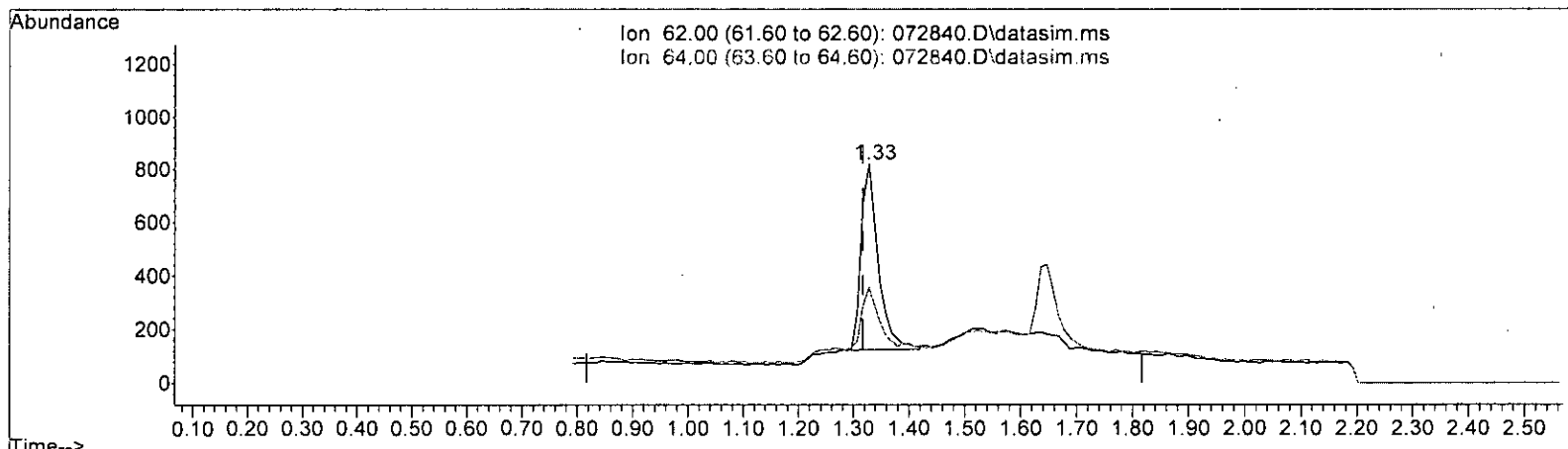
(6) Vinyl chloride (TMP)		
1.328min (+ 0.011)	0.268 ppb	
response	2169	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	37.05
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



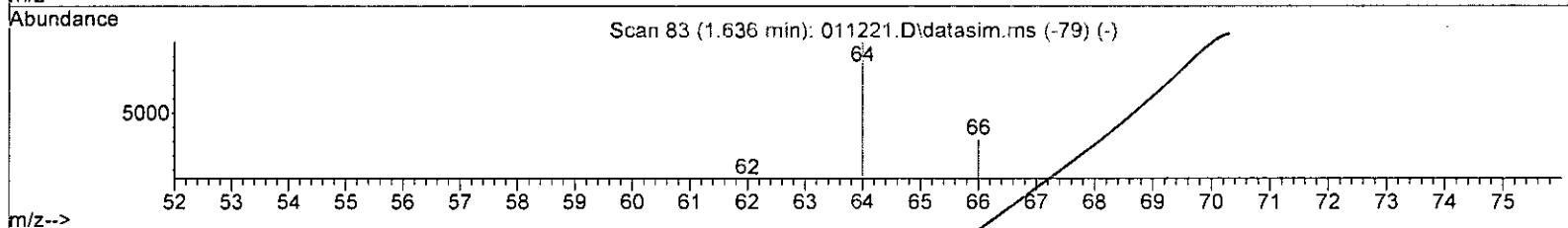
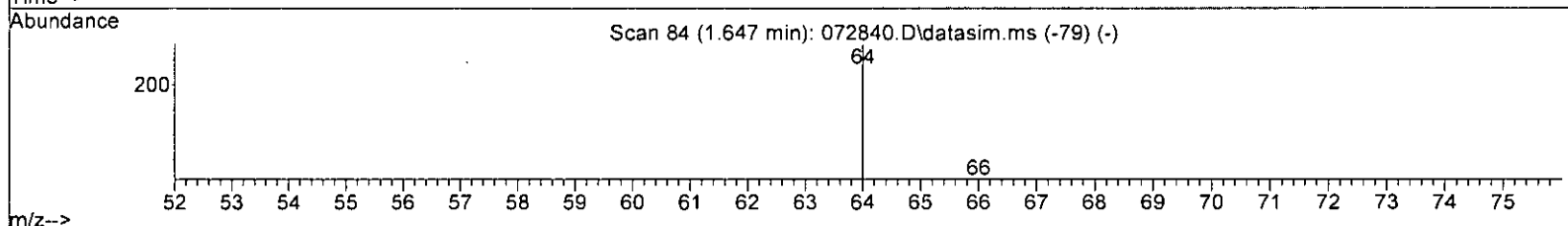
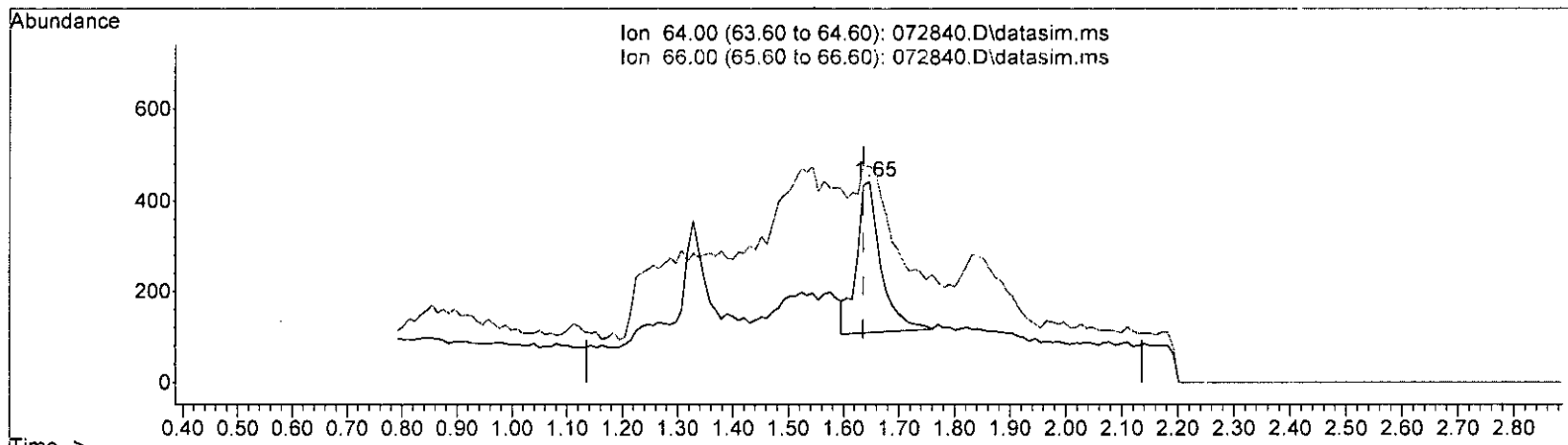
TIC: 072840.D\data.ms *m 7/29*

(6) Vinyl chloride (TMP)			
1.328min (+ 0.011)		0.183 ppb m	
response	1480		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	43.41	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(8) Chloroethane (TMP)

1.647min (+ 0.011) 0.296 ppb

response 1007

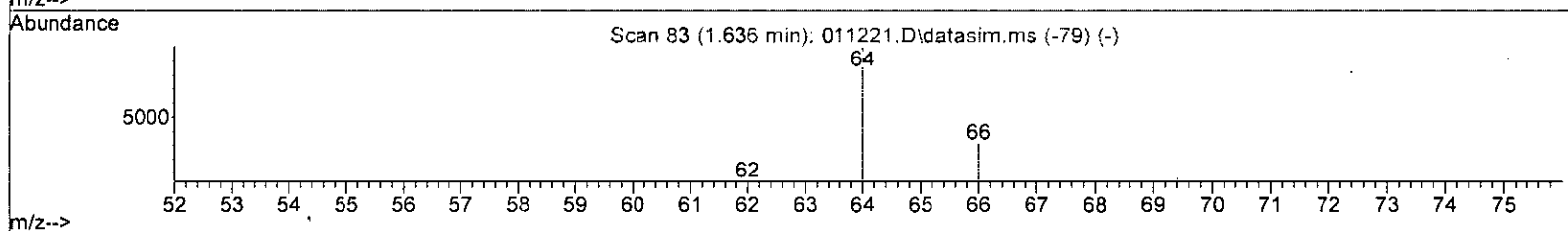
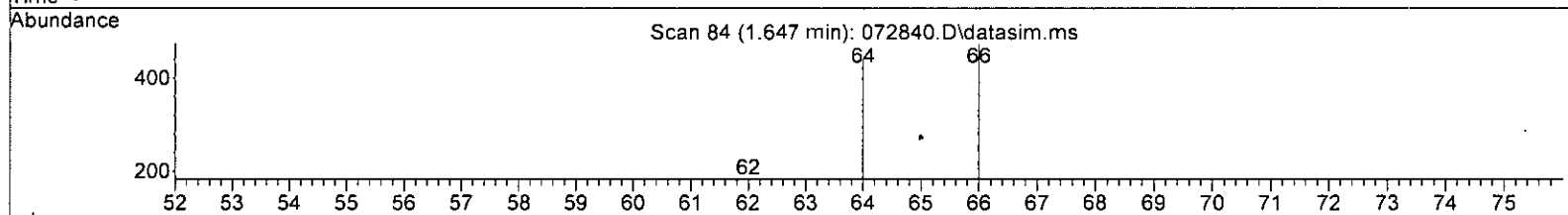
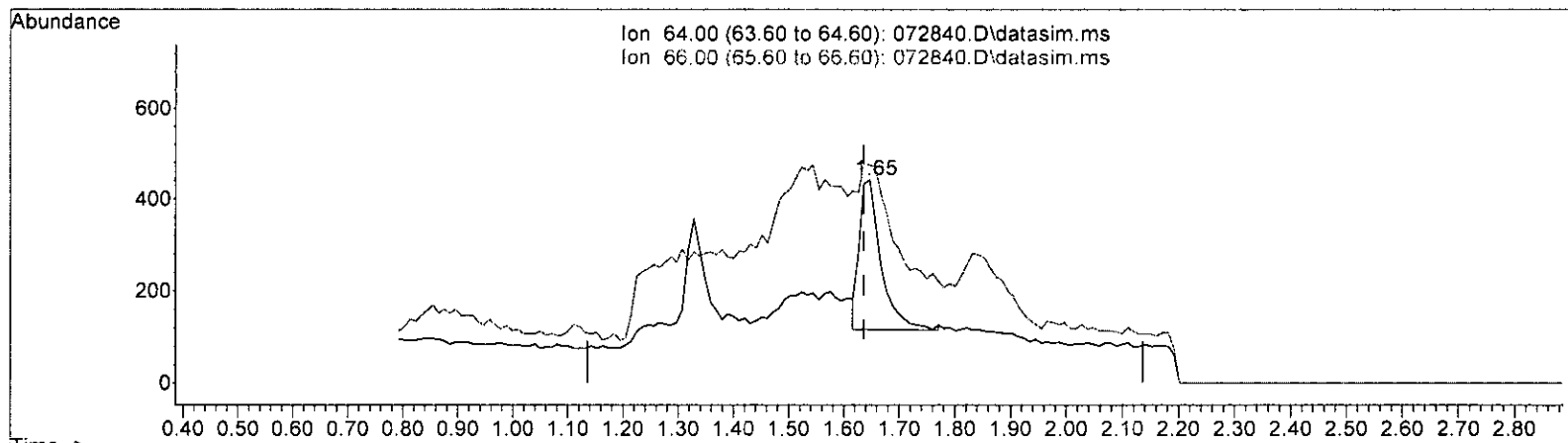
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.80	72.70#
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(8) Chloroethane (TMP) *m 7/29*

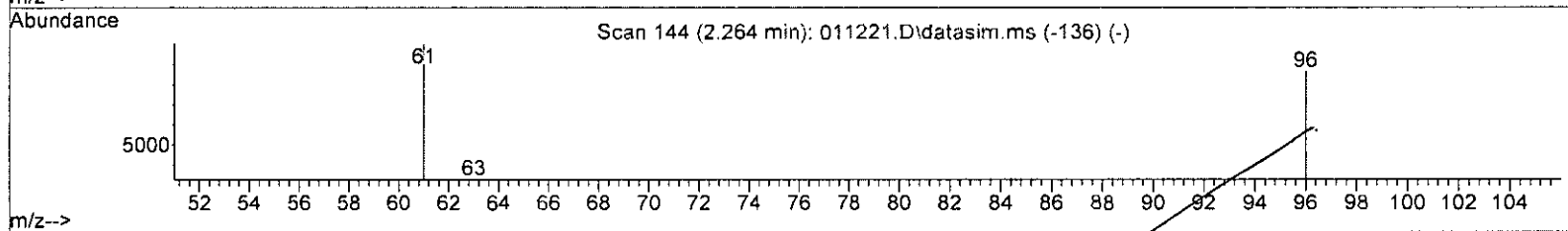
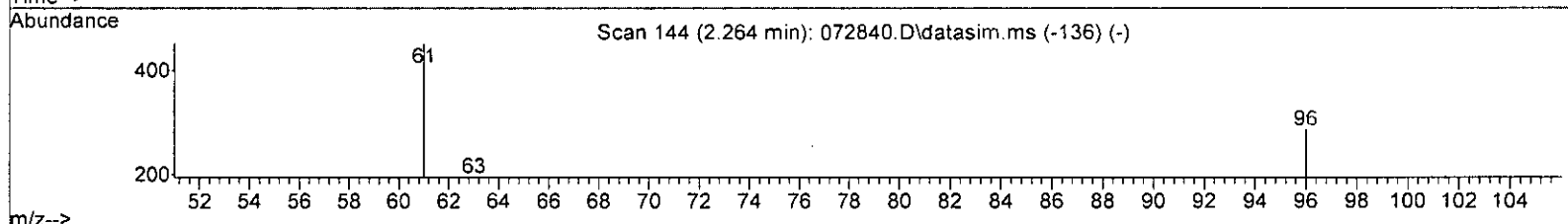
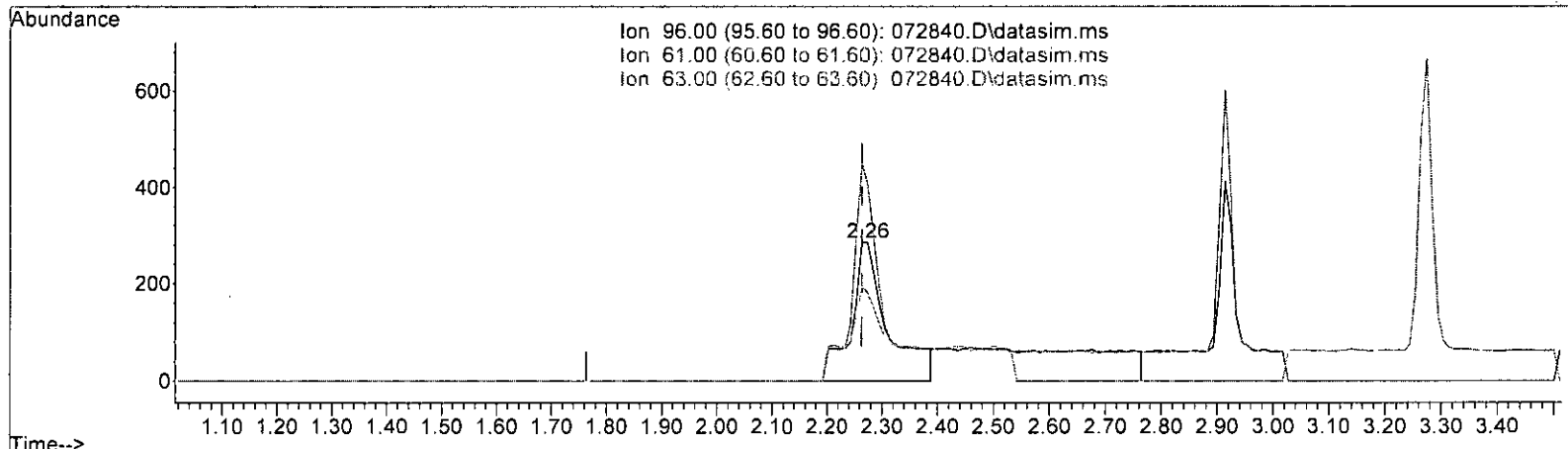
1.647min (+ 0.011) 0.258 ppb m

response	876
Ion	Exp% Act%
64.00	100.00 100.00
66.00	29.80 107.47#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (-0.000) 0.450 ppb

response 1311

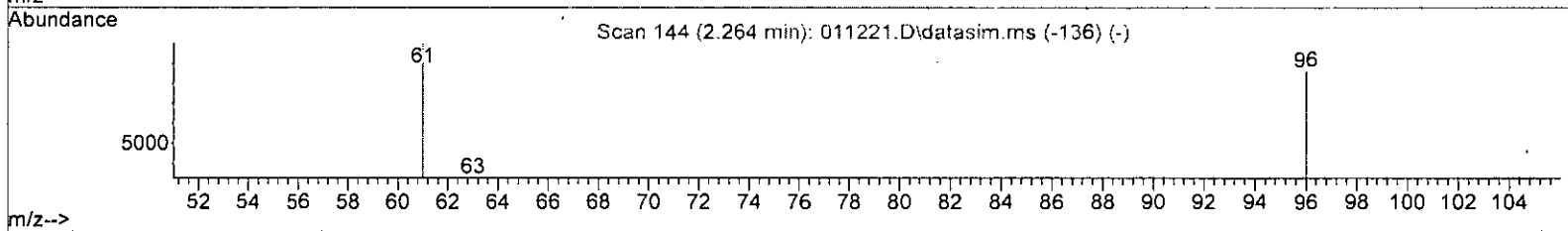
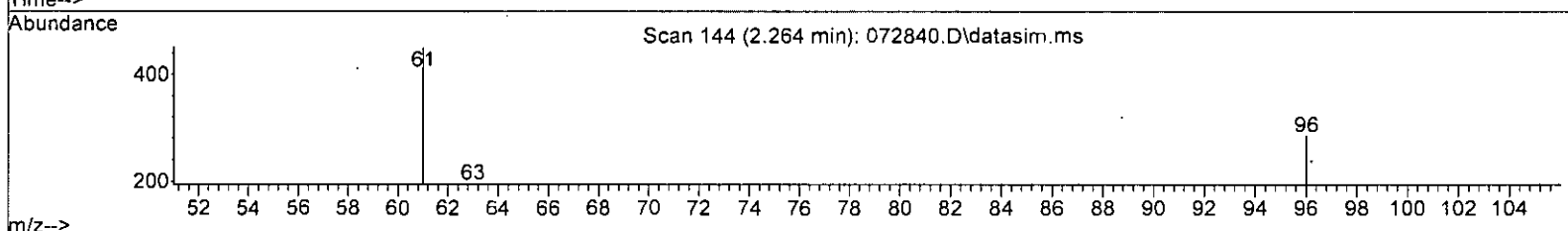
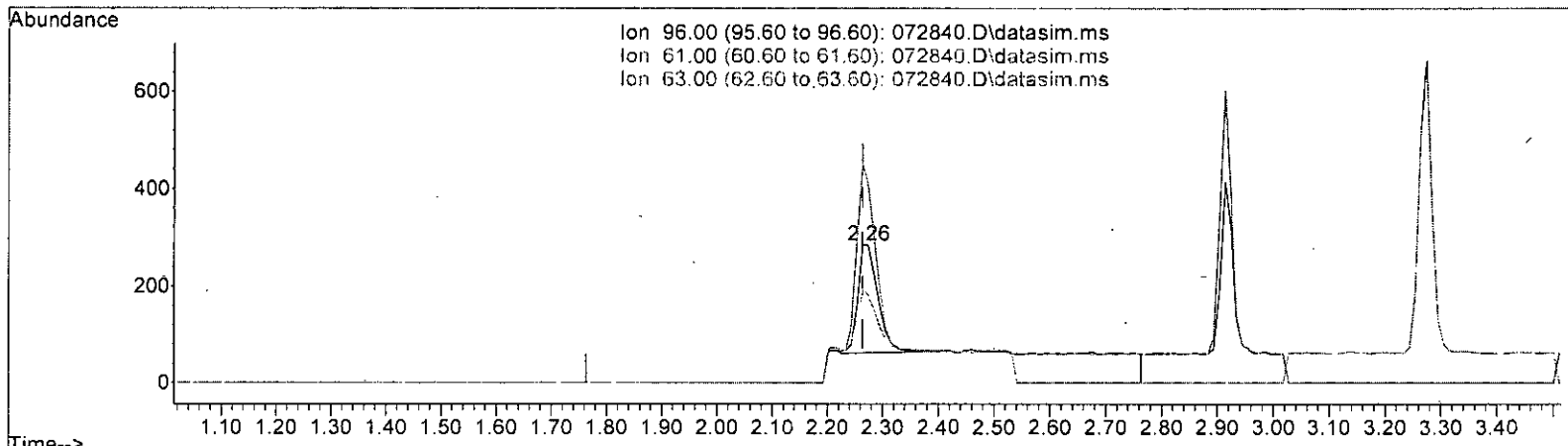
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	158.80
63.00	54.90	68.31
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(12) 1,1-Dichloroethene (TMP) *W 7/29*

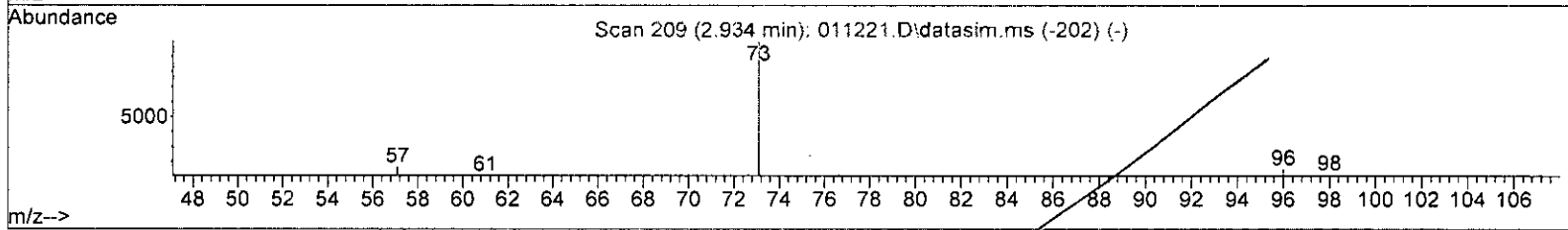
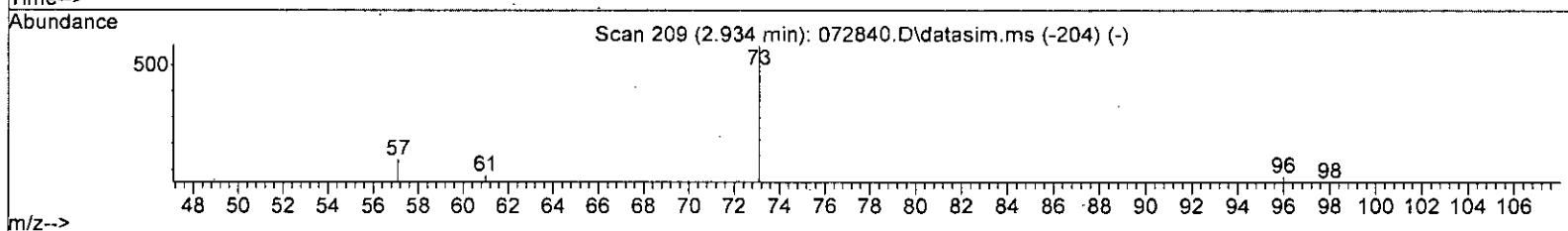
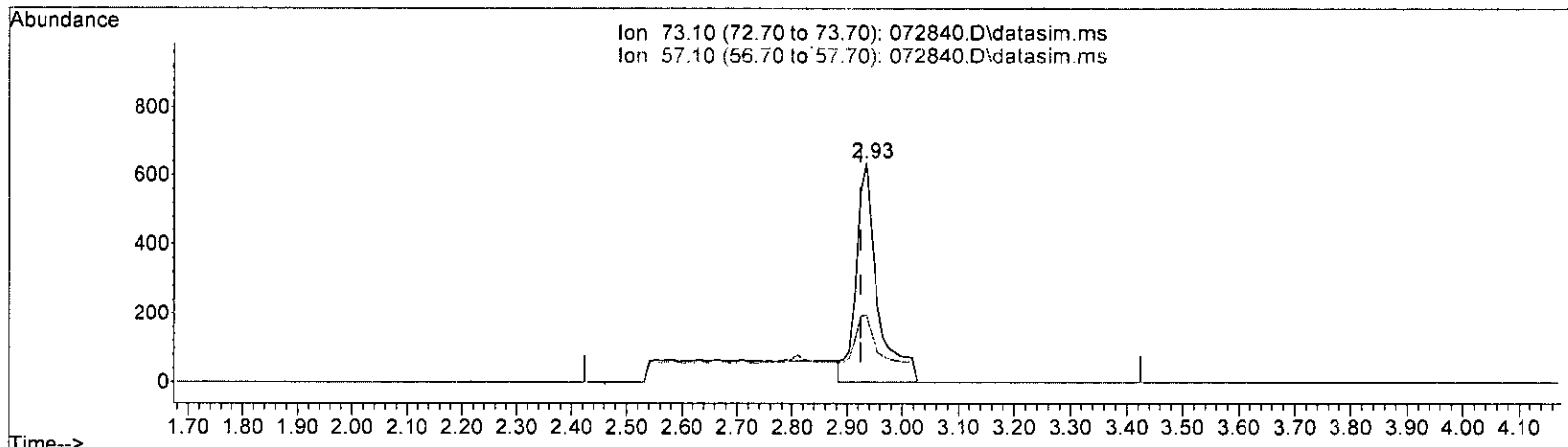
2.264min (-0.000) 0.188 ppb m

response	564
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 158.80
63.00	54.90 68.31
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP) *m 7/20*

2.934min (+ 0.010) 0.259 ppb

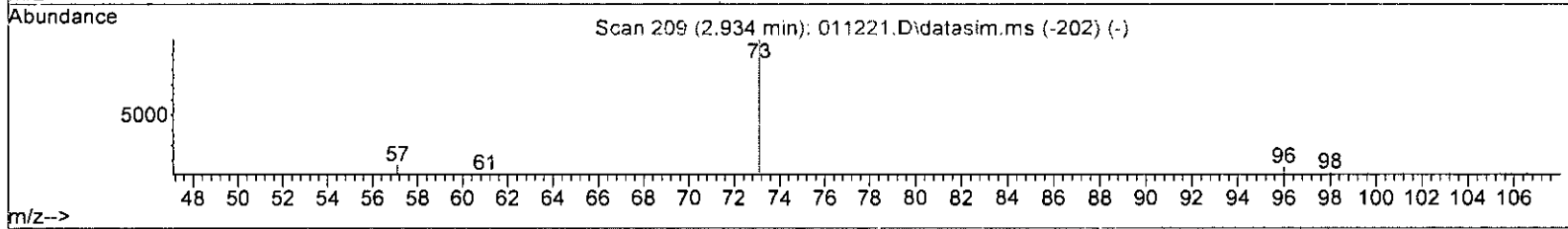
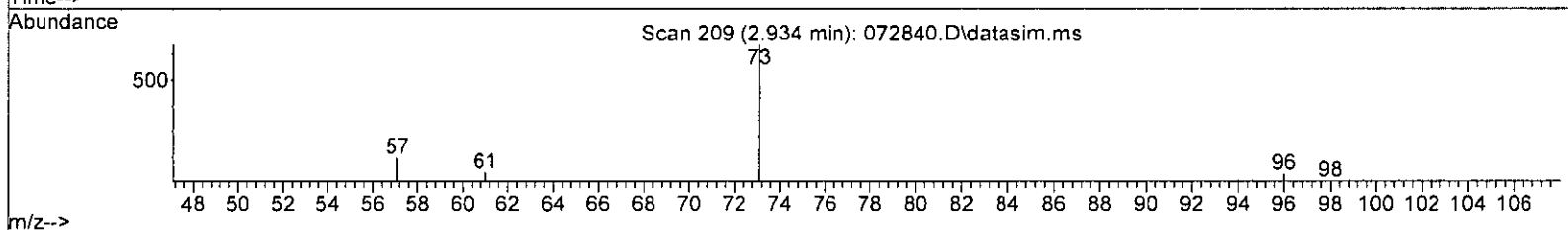
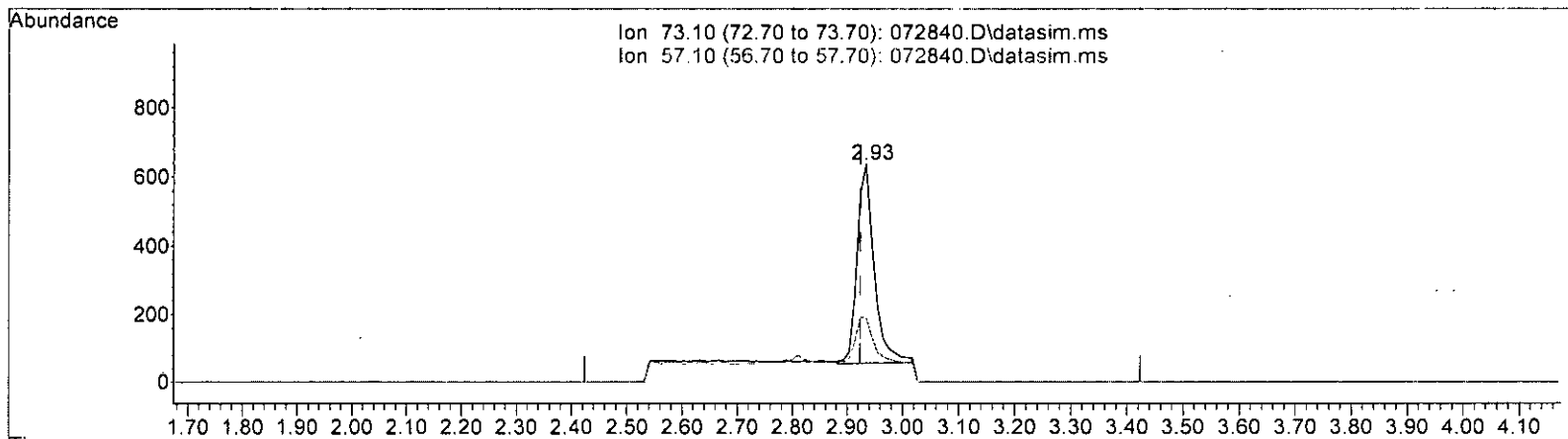
response 1710

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	30.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

*2m 7/20*

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

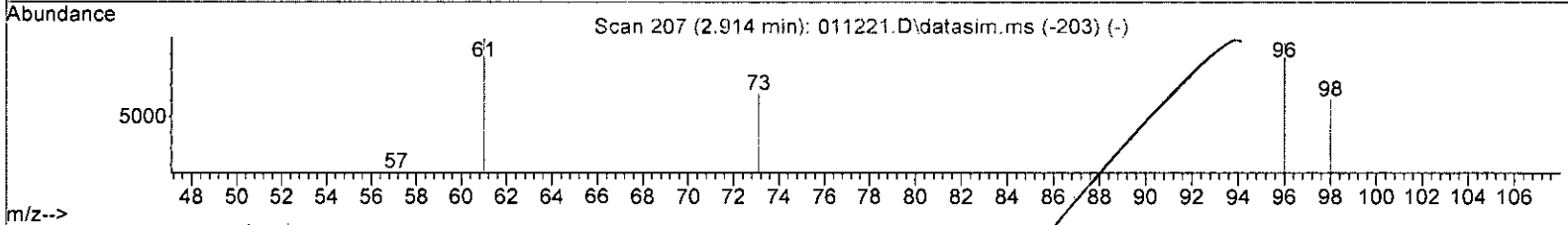
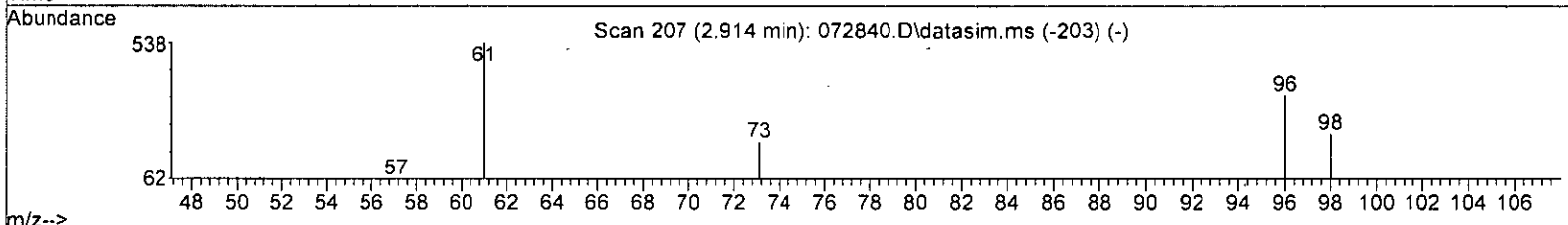
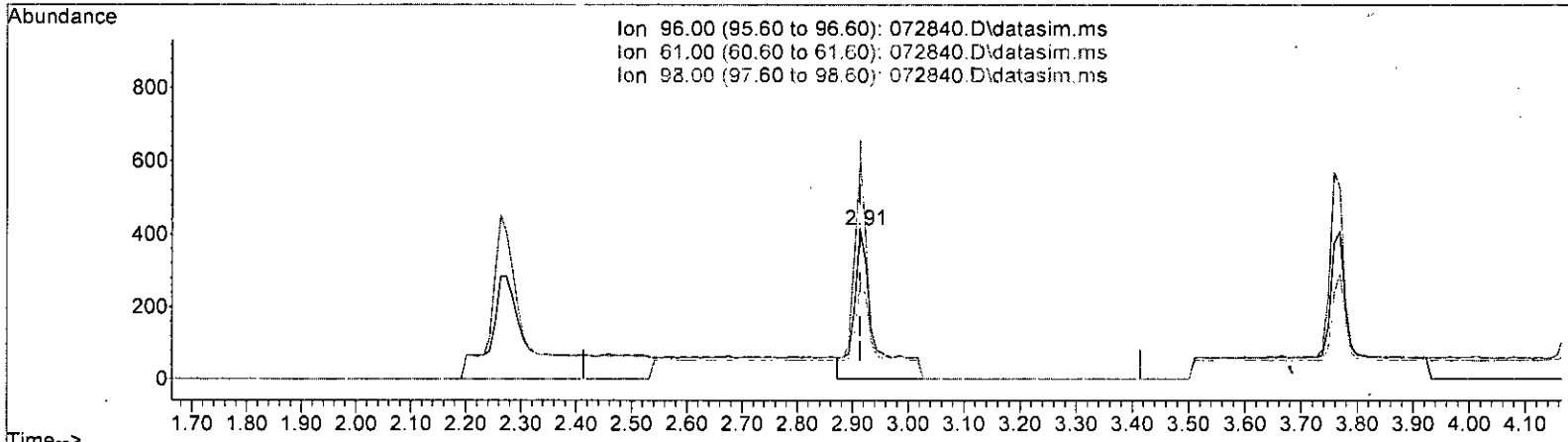
2.934min (+ 0.010) 0.190 ppb m

response	1255
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 30.50
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072840.D\data.ms

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

2.914min (-0.000) 0.377 ppb

response 1054

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	145.87
98.00	60.80	65.78
0.00	0.00	0.00

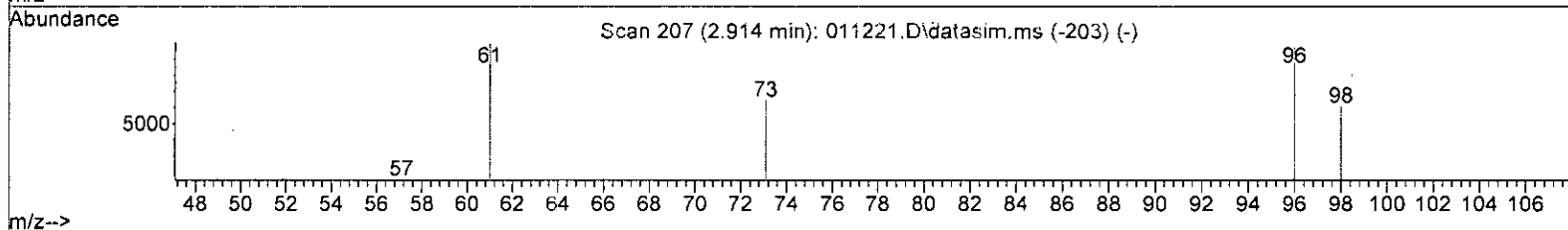
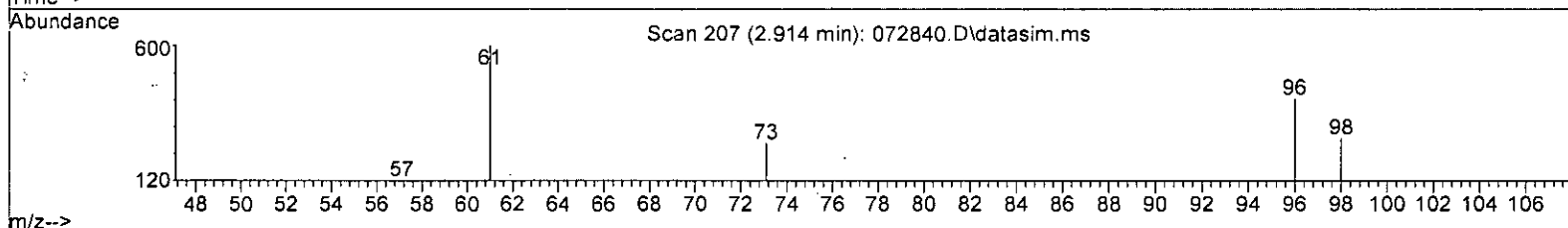
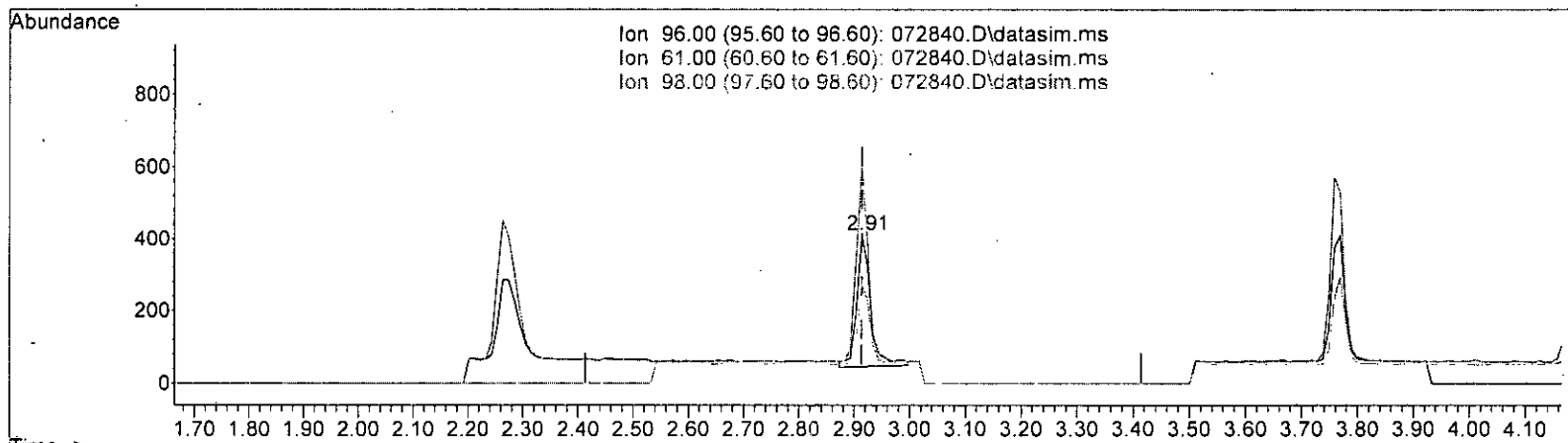
*MD 7/29*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

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

2.914min (-0.000) 0.219 ppb m

response 631

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	145.87
98.00	60.80	65.78
0.00	0.00	0.00

*MD 7/29*

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	105364	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	79174	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36712	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	29349	10.265	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%		
30) 1,2-Dichloroethane-d4	4.45	102	6567	10.372	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	103.70%		
35) Toluene-d8	6.10	98	117788	10.062	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	100.60%		
57) 4-Bromofluorobenzene	8.50	95	33295	10.069	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	100.70%		
Target Compounds							
2) Ethanol	2.32	45	171	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	1480m	0.183	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.65	64	876m	0.258	ppb		
9) Trichlorofluoromethane	1.85	101	2328	0.185	ppb		69
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	564m	0.188	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	1255m	0.190	ppb		
17] trans-1,2-Dichloroethene	2.91	96	631m	0.219	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	2171	0.220	ppb		95
19] 1,1-Dichloroethane	3.27	63	986	0.193	ppb		100
20) Ethyl t-butyl ether (E...)	3.66	87	593	0.213	ppb	#	61
21) 2,2-Dichloropropane	3.75	77	575	0.203	ppb		54
22] cis-1,2-Dichloroethene	3.77	96	582	0.191	ppb		95
23) Chloroform	4.04	83	943	0.197	ppb		97
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.61	73	1239	0.198	ppb		92
26] 1,2-Dichloroethane (EDC)	4.52	62	881	0.188	ppb		97
27] 1,1,1-Trichloroethane	4.19	97	823	0.193	ppb		99
28) 1,1-Dichloropropene	4.32	75	628	0.174	ppb		74
29) Carbon tetrachloride	4.32	117	786	0.210	ppb		72
31] Benzene	4.50	78	2144	0.199	ppb		100
32] Trichloroethene	5.04	95	617	0.183	ppb		100
33) 1,2-Dichloropropane	5.24	63	628	0.221	ppb	#	88
34) Bromodichloromethane	5.47	83	605	0.176	ppb		85
36) Dibromomethane	5.34	93	344	0.188	ppb	#	74

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

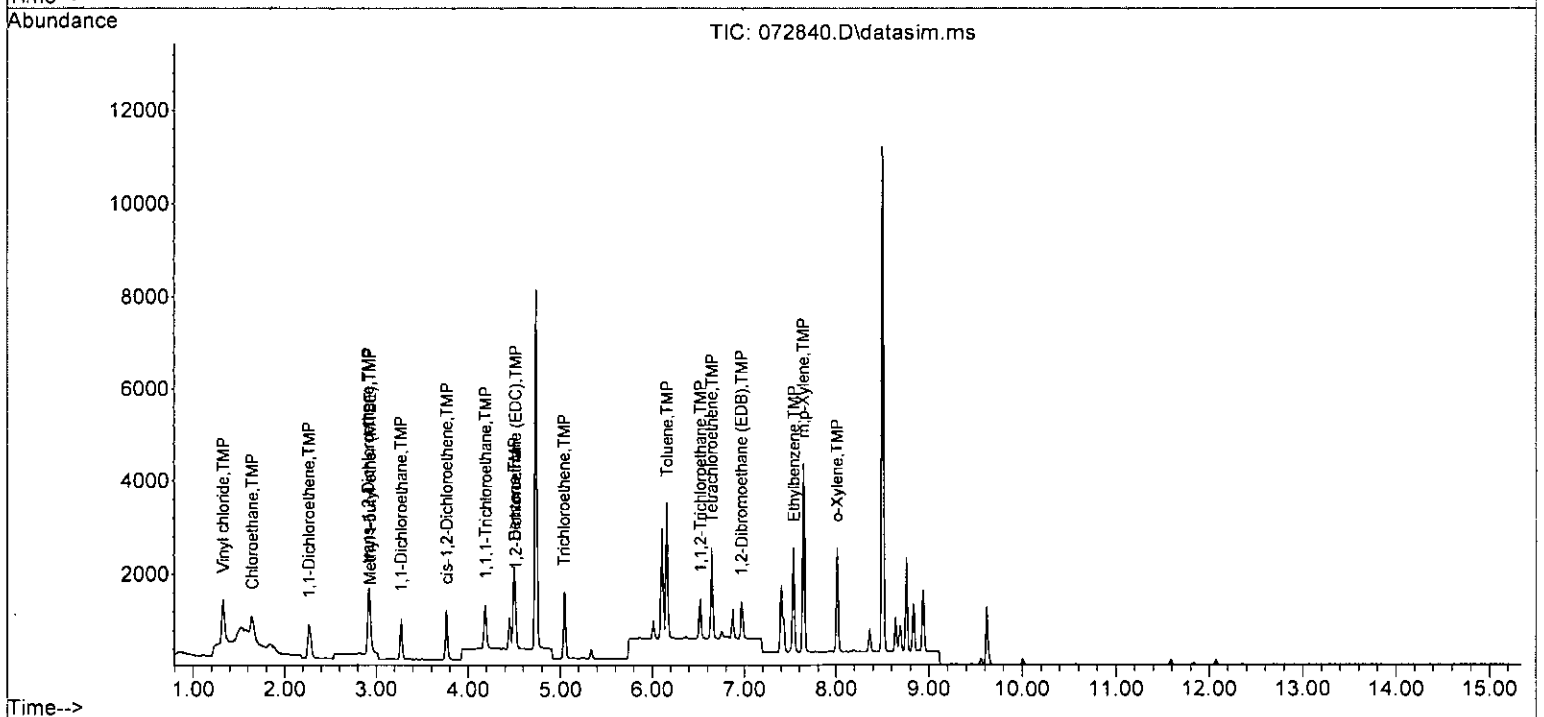
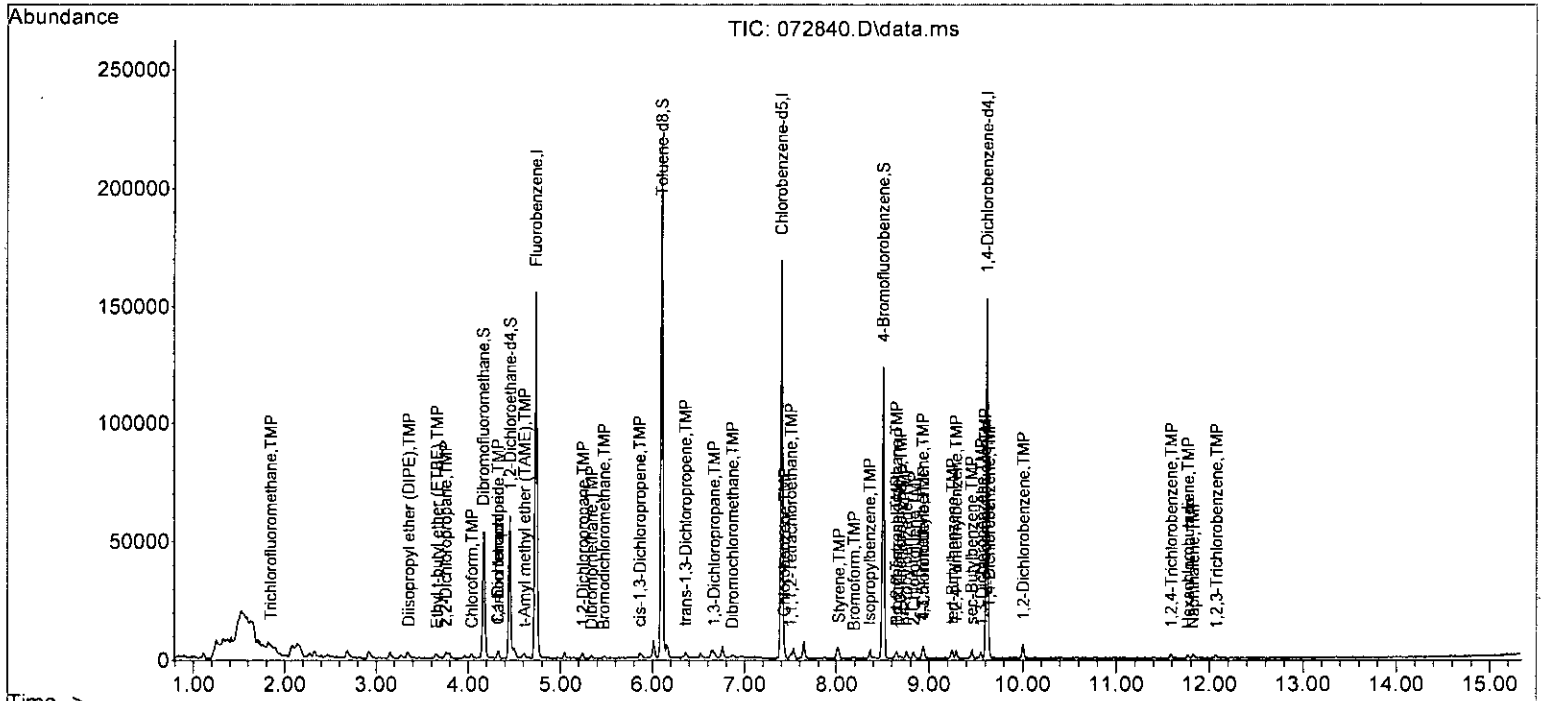
Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	5.86	75	895	0.189	ppb	85
40] Toluene	6.16	92	1675	0.199	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	832	0.199	ppb	69
42] 1,1,2-Trichloroethane	6.52	83	511	0.200	ppb #	71
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	6.67	76	778	0.172	ppb	96
45] Tetrachloroethene	6.64	164	660	0.192	ppb	97
46) Dibromochloromethane	6.87	129	620	0.180	ppb	68
47] 1,2-Dibromoethane (EDB)	6.97	107	655	0.188	ppb	96
48) Chlorobenzene	7.43	112	1374	0.186	ppb	96
49] Ethylbenzene	7.54	91	2370	0.189	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	568	0.218	ppb	85
51] m,p-Xylene	7.64	106	1843	0.376	ppb	98
52] o-Xylene	8.01	106	893	0.188	ppb	100
53) Styrene	8.03	104	1504	0.210	ppb	100
54) Isopropylbenzene	8.36	105	2310	0.213	ppb	77
55) Bromoform	8.19	173	408	0.216	ppb	85
58) n-Propylbenzene	8.75	91	2279	0.187	ppb	100
59) Bromobenzene	8.65	156	663	0.222	ppb	88
60) 1,3,5-Trimethylbenzene	8.93	105	1706	0.201	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	691	0.245	ppb	68
62) 1,2,3-Trichloropropane	8.69	75	592	0.245	ppb	70
63) 2-Chlorotoluene	8.84	91	1453	0.203	ppb	97
64) 4-Chlorotoluene	8.94	91	1605	0.194	ppb	99
65) tert-Butylbenzene	9.25	119	1590	0.205	ppb	88
66) 1,2,4-Trimethylbenzene	9.29	105	1765	0.197	ppb	98
67) sec-Butylbenzene	9.45	105	2313	0.203	ppb	90
68) p-Isopropyltoluene	9.60	119	1558	0.164	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	985	0.186	ppb	91
70) 1,4-Dichlorobenzene	9.64	146	1151	0.212	ppb	79
71) 1,2-Dichlorobenzene	10.01	146	1042	0.207	ppb	84
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.59	180	675	0.203	ppb	88
74) Hexachlorobutadiene	11.77	225	301	0.168	ppb	79
75) Naphthalene	11.82	128	1558	0.199	ppb	88
76) 1,2,3-Trichlorobenzene	12.07	180	587	0.194	ppb	81

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	10.265	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.200	0.183	8.5	95	0.01
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	0.200	0.258	-29.0#	101	0.01
9 TMP	Trichlorofluoromethane	0.200	0.185	7.5	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.200	0.188	6.0	102	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.190	5.0	101	0.01
17 TMP	trans-1,2-Dichloroethene	0.200	0.219	-9.5	106	0.00
18 TMP	Diisopropyl ether (DIPE)	0.200	0.220	-10.0	100	0.01
19 TMP	1,1-Dichloroethane	0.200	0.193	3.5	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.213	-6.5	100	0.01
21 TMP	2,2-Dichloropropane	0.200	0.203	-1.5	100	-0.01
22 TMP	cis-1,2-Dichloroethene	0.200	0.191	4.5	100	0.01
23 TMP	Chloroform	0.200	0.197	1.5	100	0.01
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.198	1.0	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.188	6.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.200	0.193	3.5	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.174	13.0	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.210	-5.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.372	-3.7	100	0.00
31 TMP	Benzene	0.200	0.199	0.5	100	0.01
32 TMP	Trichloroethene	0.200	0.183	8.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.221	-10.5	100	0.01
34 TMP	Bromodichloromethane	0.200	0.176	12.0	100	0.00
35 S	Toluene-d8	10.000	10.062	-0.6	100	0.00
36 TMP	Dibromomethane	0.200	0.188	6.0	100	0.00
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.200	0.189	5.5	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.200	0.199	0.5	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.200	0.199	0.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.200	0.200	0.0	100	0.01
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.172	14.0	100	0.00
45 TMP Tetrachloroethene	0.200	0.192	4.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.180	10.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.188	6.0	100	0.00
48 TMP Chlorobenzene	0.200	0.186	7.0	100	0.00
49 TMP Ethylbenzene	0.200	0.189	5.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.218	-9.0	100	0.00
51 TMP m,p-Xylene	0.400	0.376	6.0	100	0.00
52 TMP o-Xylene	0.200	0.188	6.0	100	0.00
53 TMP Styrene	0.200	0.210	-5.0	100	0.00
54 TMP Isopropylbenzene	0.200	0.213	-6.5	100	0.00
55 TMP Bromoform	0.200	0.216	-8.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.069	-0.7	100	0.00
58 TMP n-Propylbenzene	0.200	0.187	6.5	100	-0.01
59 TMP Bromobenzene	0.200	0.222	-11.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.201	-0.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.245	-22.5#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.245	-22.5#	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.203	-1.5	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.194	3.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.205	-2.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.197	1.5	100	0.00
67 TMP sec-Butylbenzene	0.200	0.203	-1.5	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.164	18.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.186	7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.212	-6.0	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.207	-3.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.200	0.000	100.0#	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.203	-1.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.168	16.0	100	0.00
75 TMP Naphthalene	0.200	0.199	0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.194	3.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.01
3 S Dibromofluoromethane	0.271	0.279	-3.0	100	0.00
4 TMP Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.769	0.702	8.7	95	0.01
7 TMP Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.323	0.416	-28.8#	101	0.01
9 TMP Trichlorofluoromethane	1.197	1.105	7.7	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.288	0.268	6.9	102	0.00
13 TMP Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.596	4.9	101	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.299	-6.0	106	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	1.030	-10.0	100	0.01
19 TMP 1,1-Dichloroethane	0.486	0.468	3.7	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.281	-6.4	100	0.01
21 TMP 2,2-Dichloropropane	0.269	0.273	-1.5	100	-0.01
22 TMP cis-1,2-Dichloroethene	0.289	0.276	4.5	100	0.01
23 TMP Chloroform	0.454	0.447	1.5	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.594	0.588	1.0	100	0.01
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.418	9.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.391	3.7	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.298	13.1	100	0.00
29 TMP Carbon tetrachloride	0.354	0.373	-5.4	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	1.042	1.017	2.4	100	0.01
32 TMP Trichloroethene	0.326	0.293	10.1	100	0.00
33 TMP 1,2-Dichloropropane	0.269	0.298	-10.8	100	0.01
34 TMP Bromodichloromethane	0.327	0.287	12.2	100	0.00
35 S Toluene-d8	1.111	1.118	-0.6	100	0.00
36 TMP Dibromomethane	0.174	0.163	6.3	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.449	0.425	5.3	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	1.058	3.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.525	0.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.323	0.0	100	0.01
43 TMP 2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.491	14.2	100	0.00
45 TMP Tetrachloroethene	0.446	0.417	6.5	100	0.00
46 TMP Dibromochloromethane	0.434	0.392	9.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.414	11.7	100	0.00
48 TMP Chlorobenzene	0.931	0.868	6.8	100	0.00
49 TMP Ethylbenzene	1.609	1.497	7.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.359	-9.1	100	0.00
51 TMP m,p-Xylene	0.630	0.582	7.6	100	0.00
52 TMP o-Xylene	0.606	0.564	6.9	100	0.00
53 TMP Styrene	0.906	0.950	-4.9	100	0.00
54 TMP Isopropylbenzene	1.367	1.459	-6.7	100	0.00
55 TMP Bromoform	0.239	0.258	-7.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.907	-0.7	100	0.00
58 TMP n-Propylbenzene	3.326	3.104	6.7	100	-0.01
59 TMP Bromobenzene	0.814	0.903	-10.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.323	-0.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.941	-22.5#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.806	-22.5#	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.979	-1.6	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.186	3.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.166	-2.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.404	1.6	100	0.00
67 TMP sec-Butylbenzene	3.109	3.150	-1.3	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.122	18.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.342	7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.568	-6.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.419	-3.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.919	-1.2	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.410	16.2	100	0.00
75 TMP Naphthalene	2.138	2.122	0.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.799	3.3	100	0.00

(#) = Out of Range

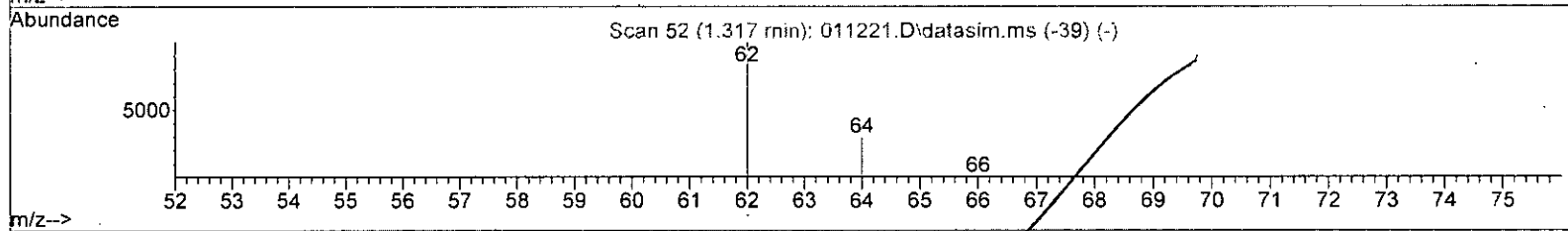
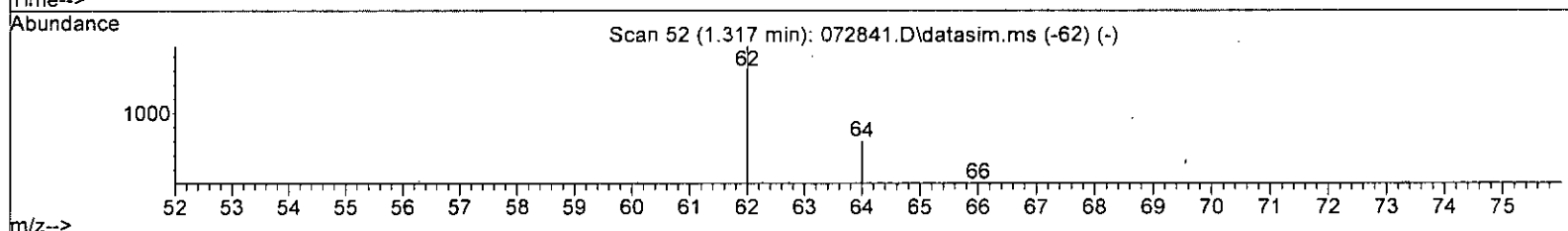
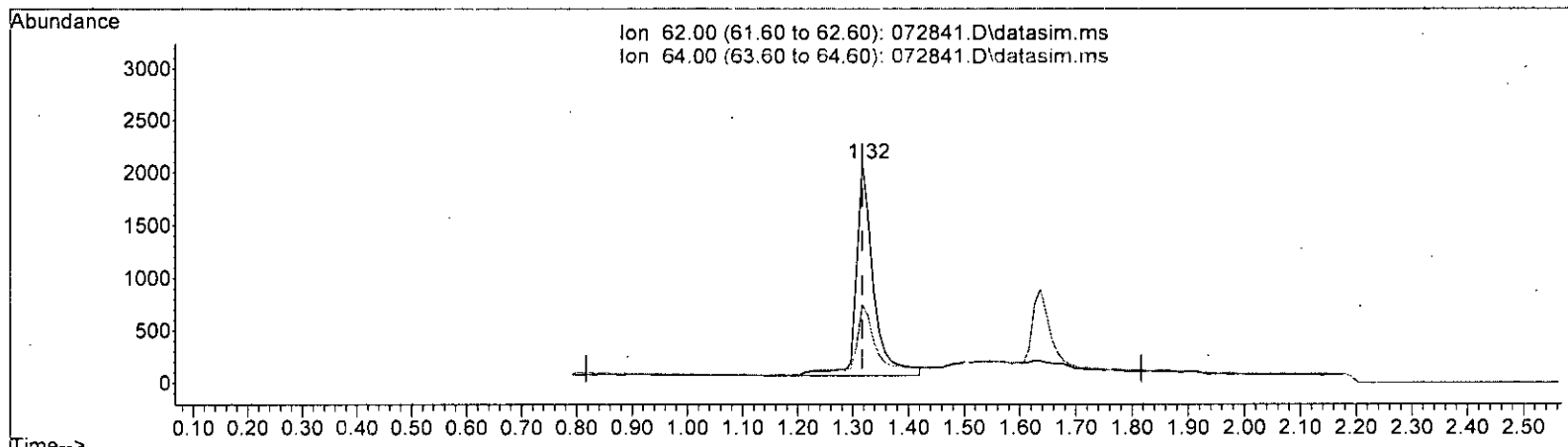
SPCC's out = 12 CCC's out = 0



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



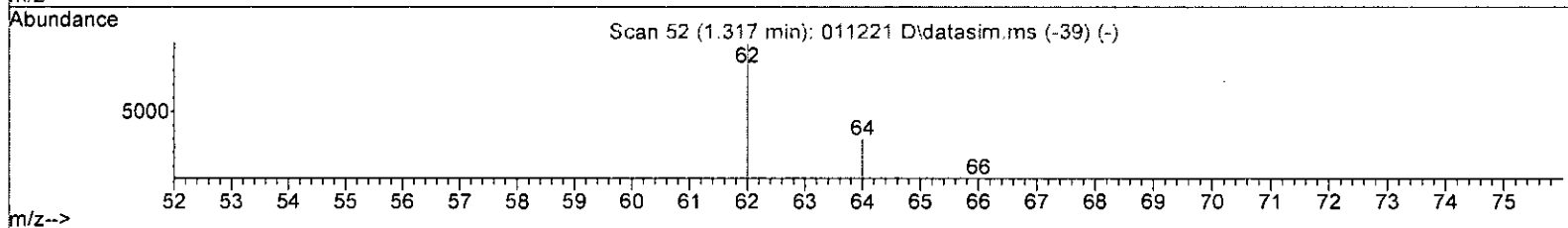
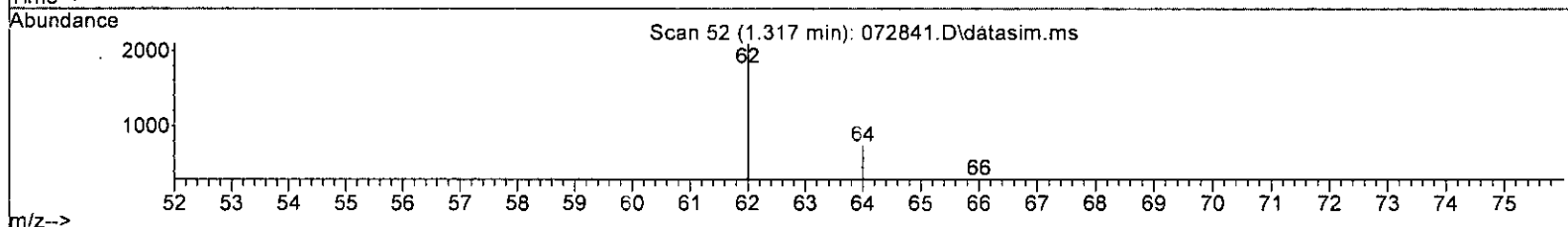
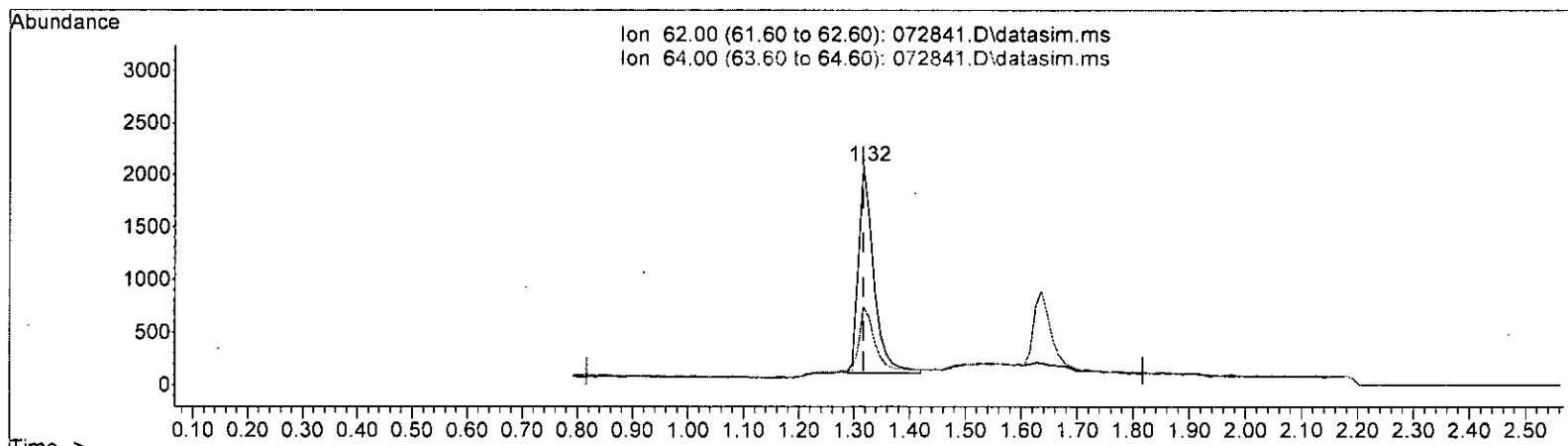
TIC: 072841.D\data.ms m 7/29

(6) Vinyl chloride (TMP)			
1.317min (+ 0.000) 0.552 ppb			
response	4368		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	32.41	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(6) Vinyl chloride (TMP) *W 7/20*

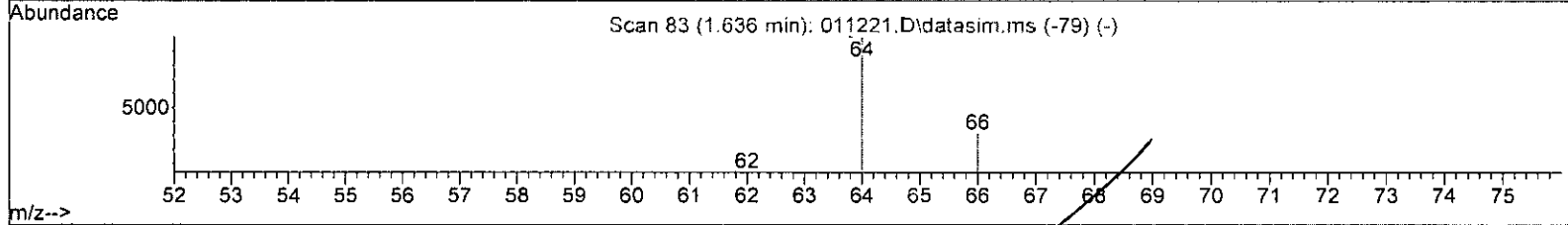
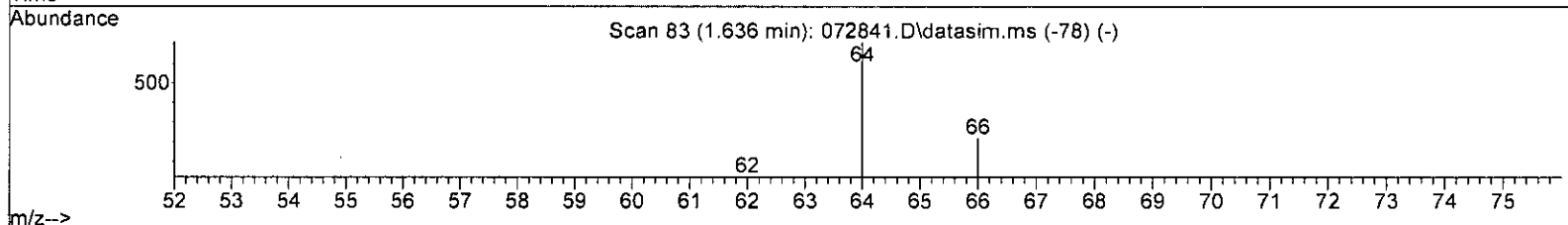
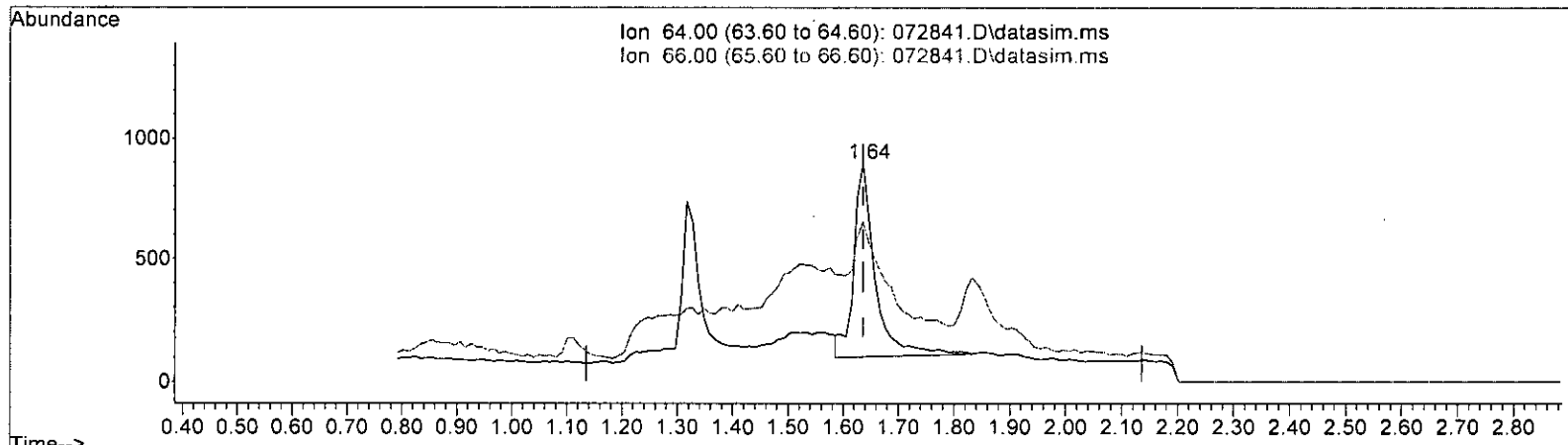
1.317min (+ 0.000) 0.478 ppb m

response	3777
Ion	Exp% Act%
62.00	100.00 100.00
64.00	28.90 35.27
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

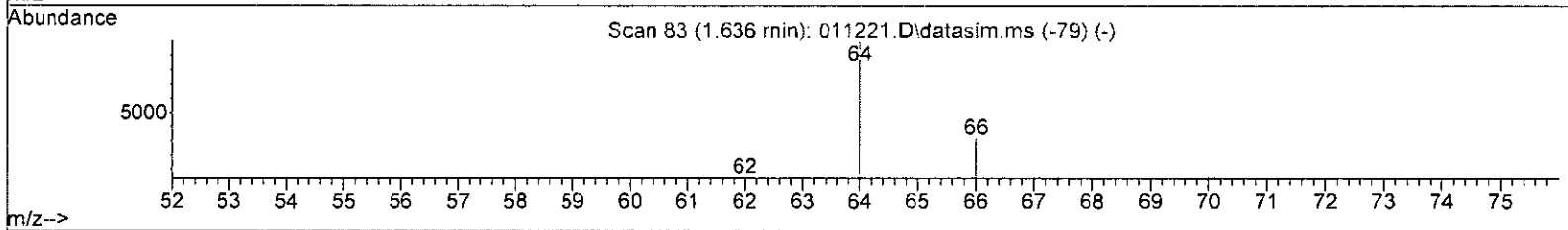
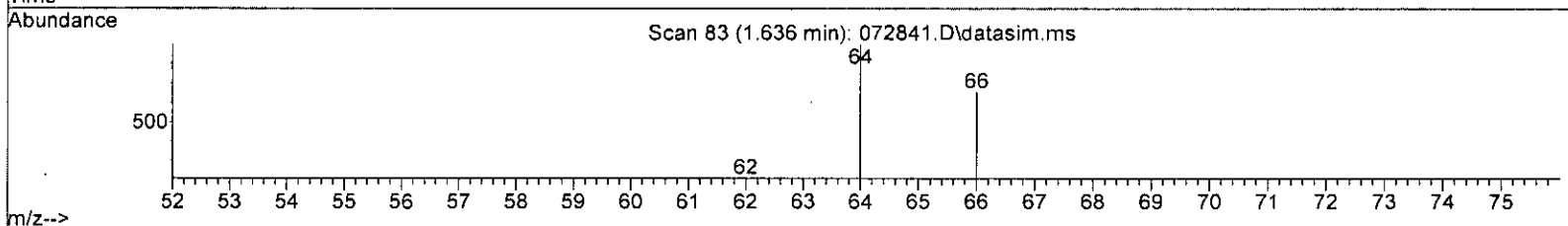
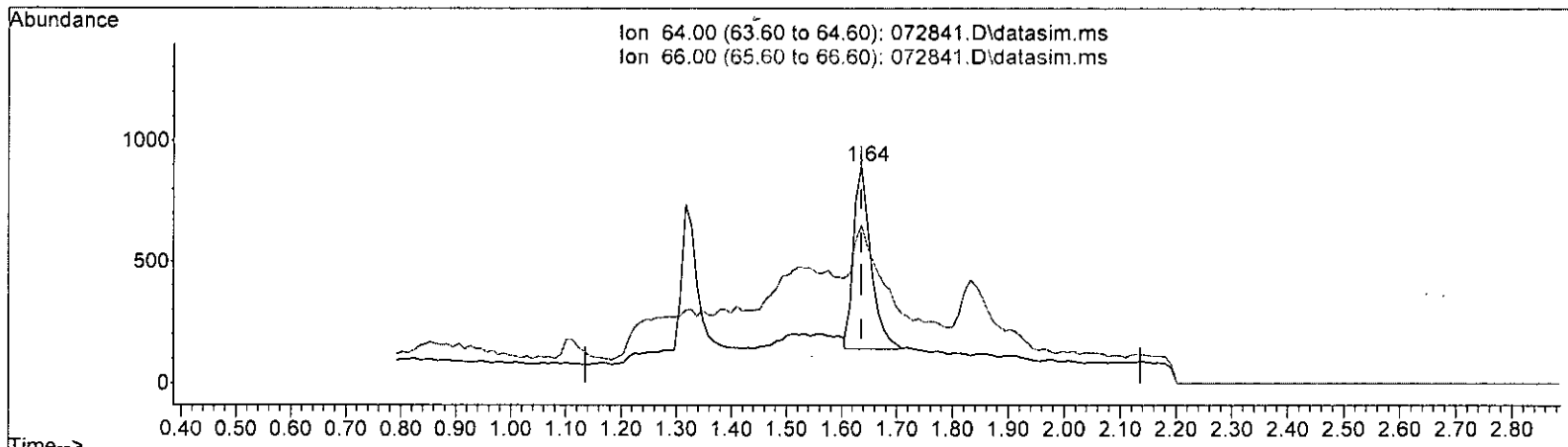
*7/29*

(8) Chloroethane (TMP)		
1.636min (+ 0.000)	0.637 ppb	
response	2115	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.80	29.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(8) Chloroethane (TMP) *m 7/20*

1.636min (+ 0.000) 0.494 ppb m

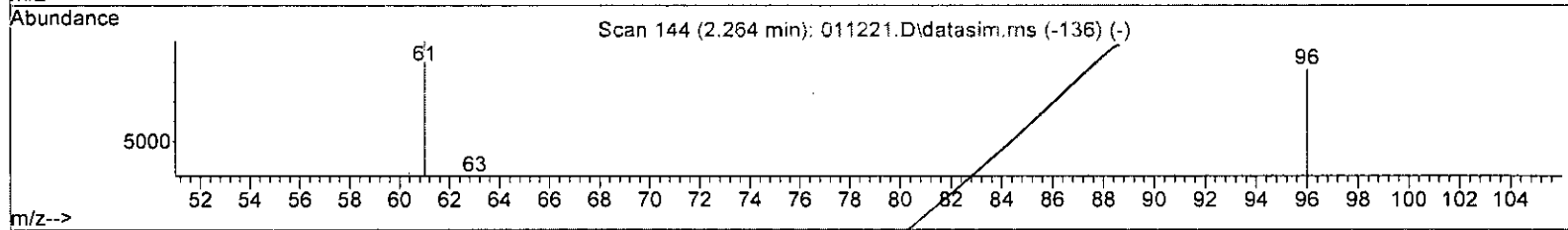
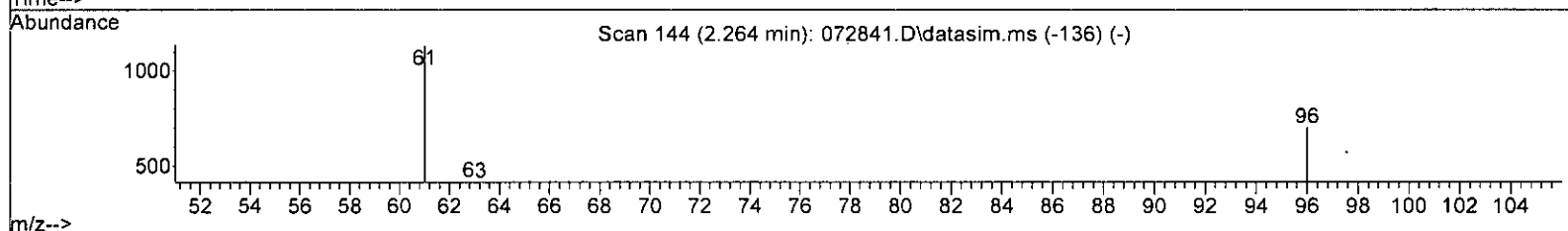
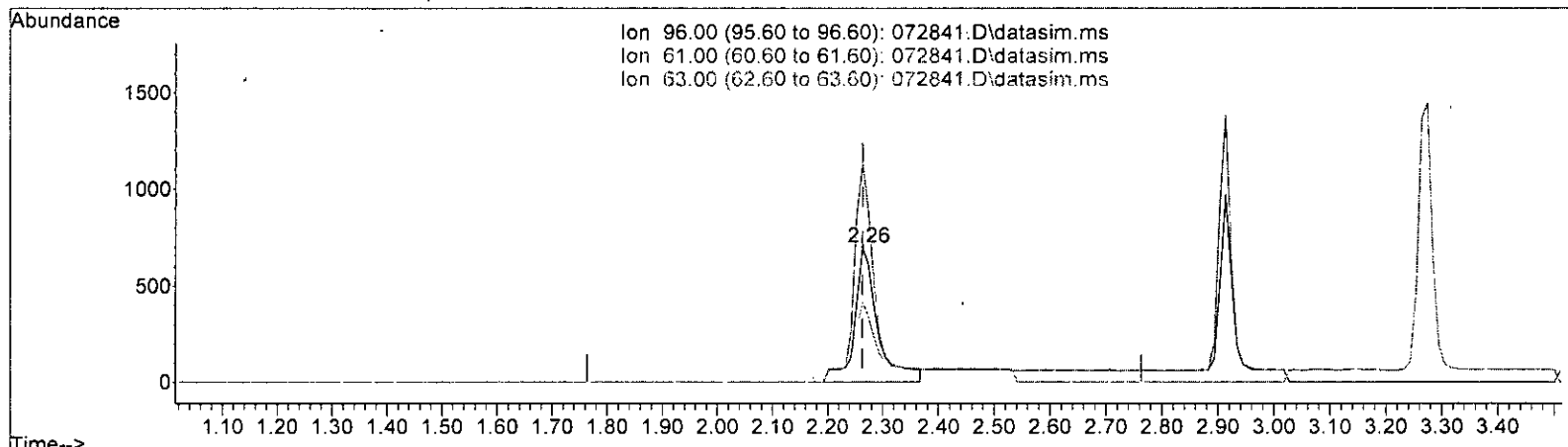
response 1639

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.80	72.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (-0.000) 0.723 ppb

response 2038

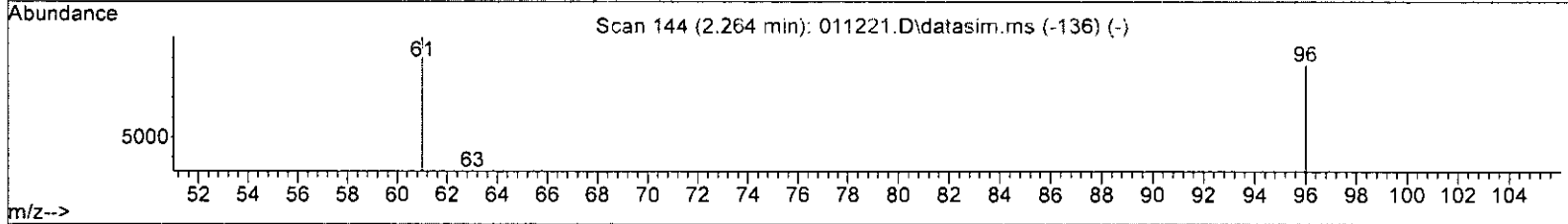
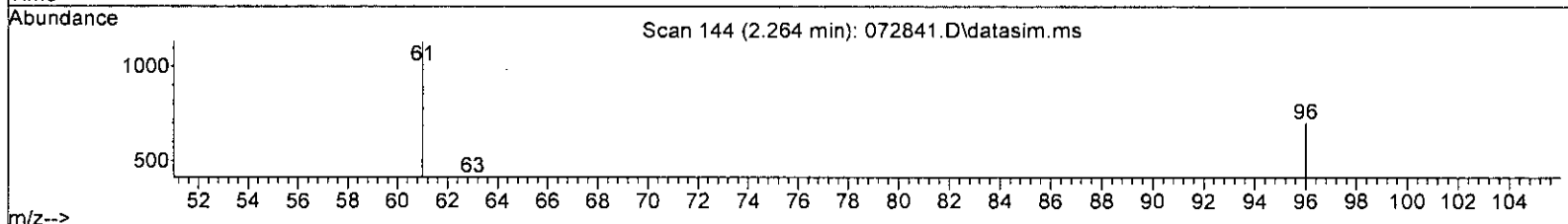
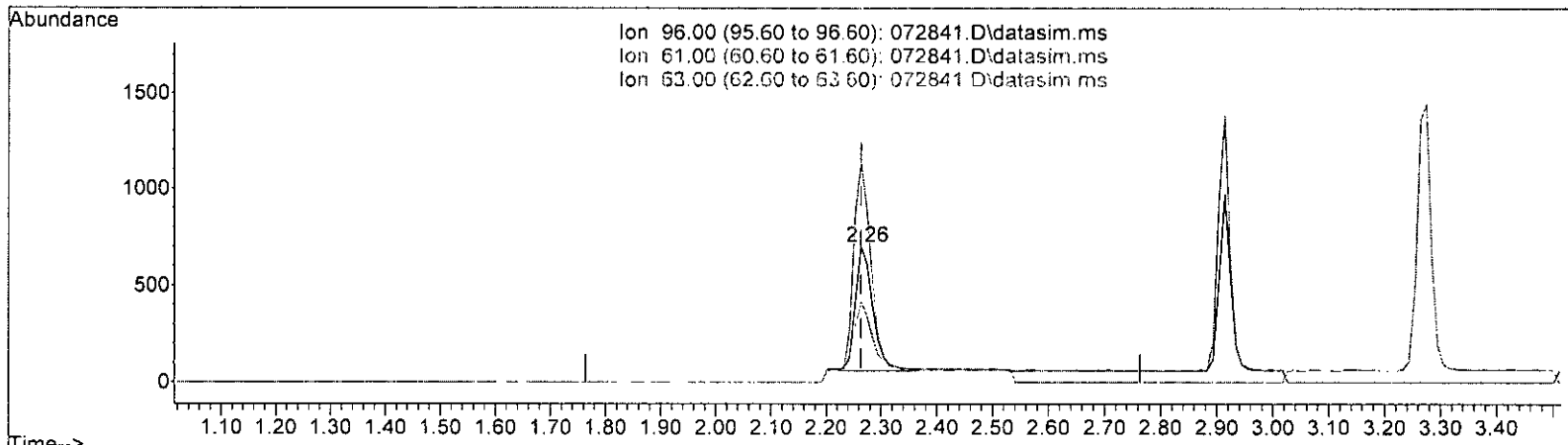
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	162.32
63.00	54.90	59.46
0.00	0.00	0.00

*MD 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms *6/7/20*

(12) 1,1-Dichloroethene (TMP)

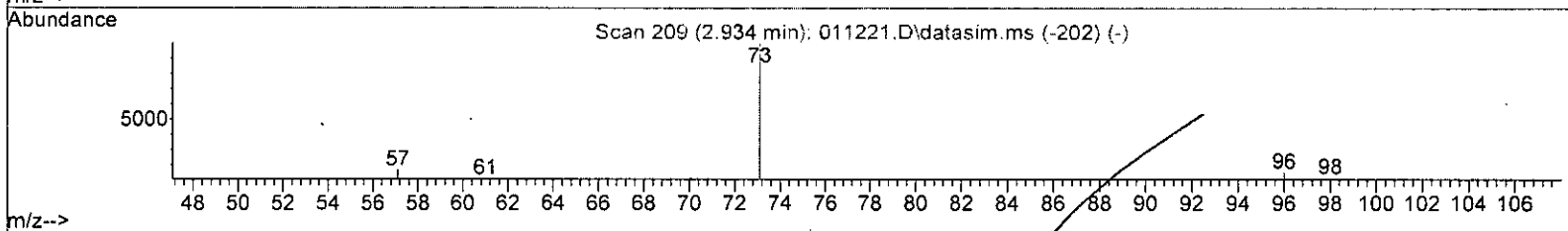
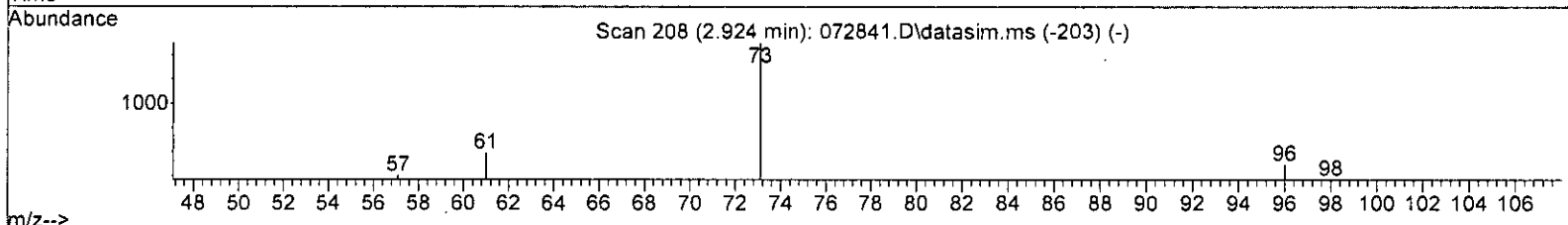
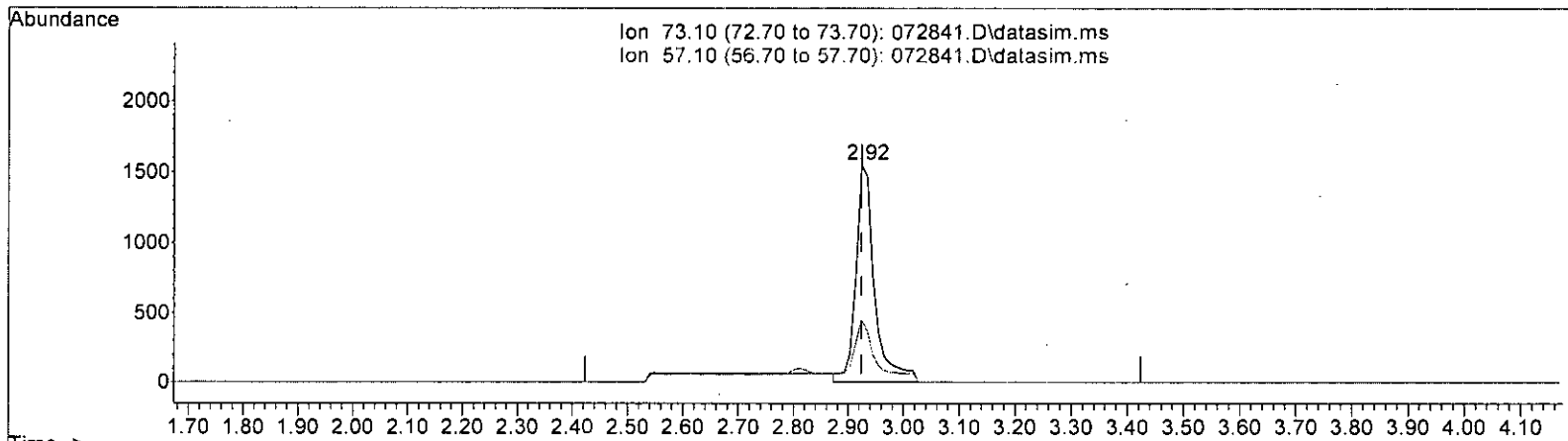
2.264min (-0.000) 0.489 ppb m

response	1387
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 162.32
63.00	54.90 59.46
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

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

2.924min (-0.000) 0.569 ppb

response 3674

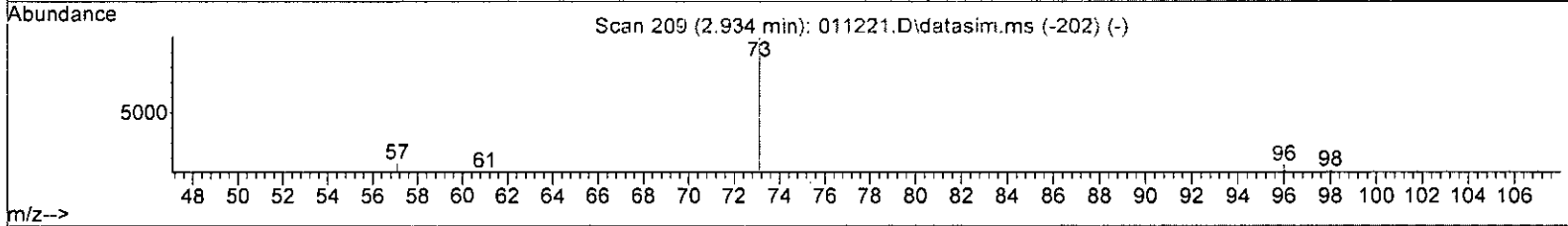
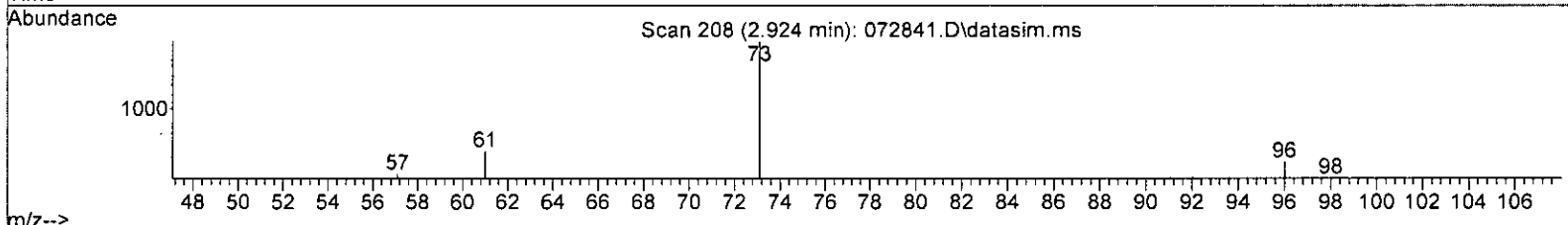
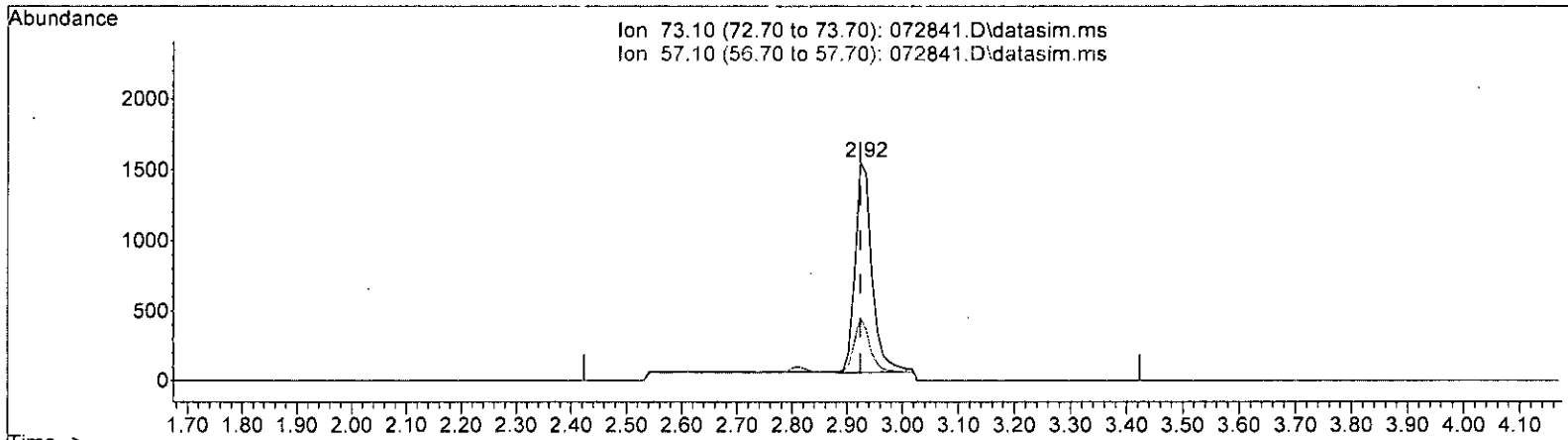
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	29.41
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/21*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP) *m 7/29*

2.924min (-0.000) 0.488 ppb m

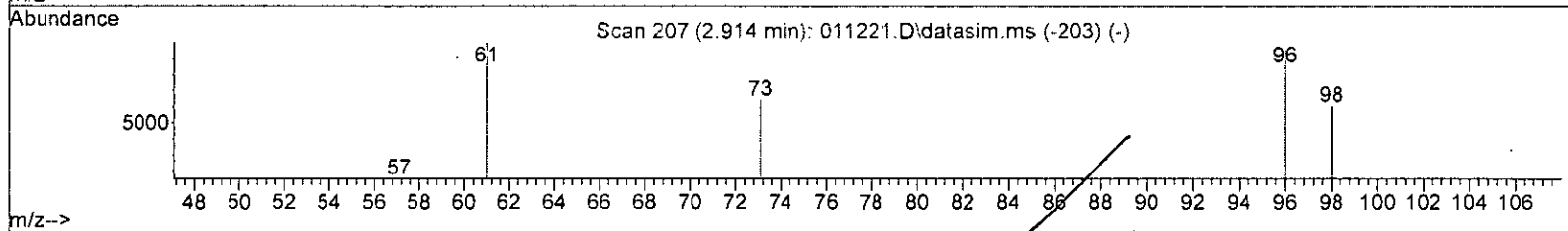
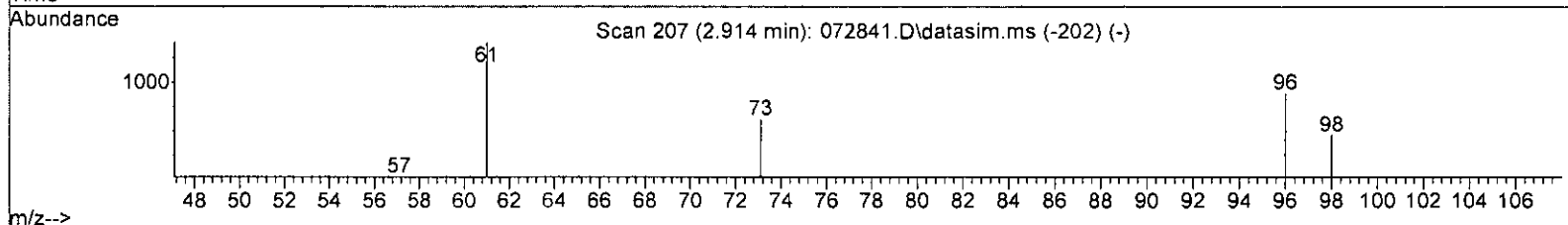
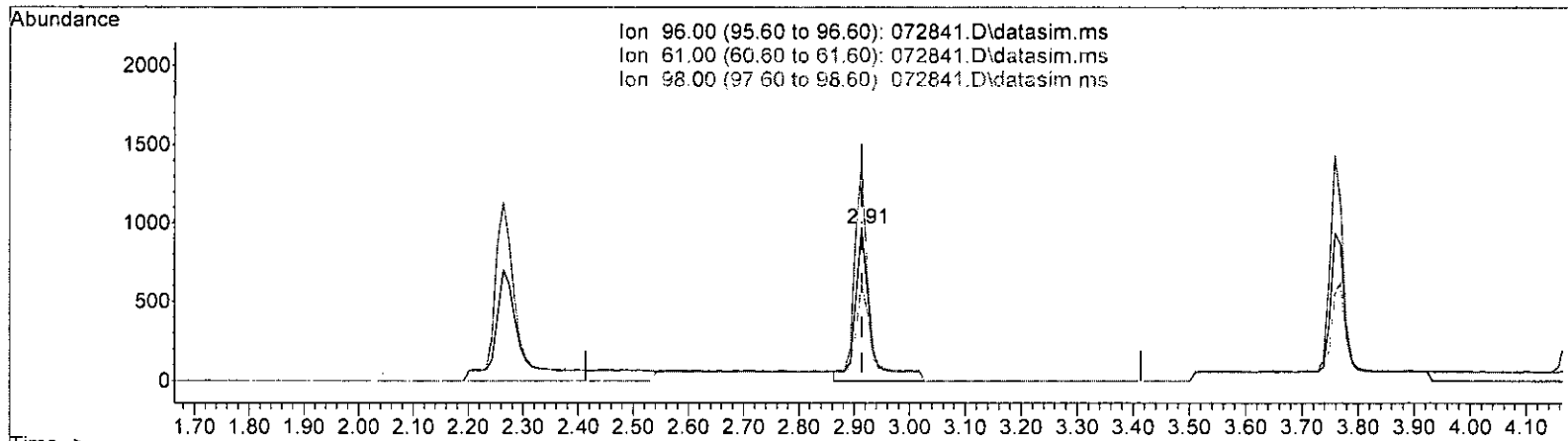
response	3150
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 29.41
0.00	0.00 0.00
0.00	0.00 0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

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

2.914min (-0.000) 0.698 ppb

response 1870

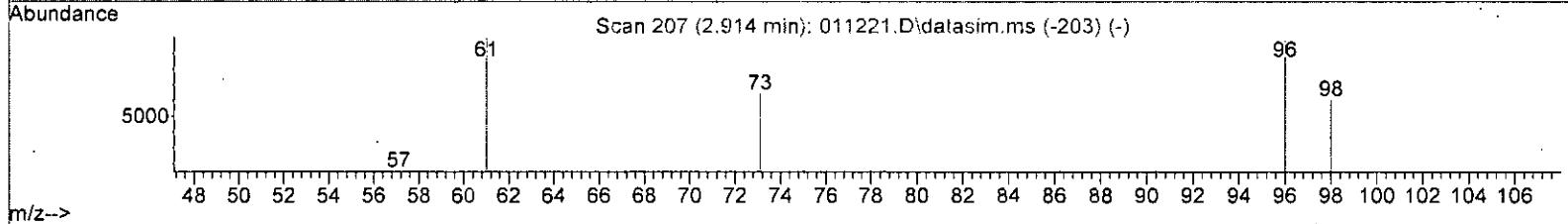
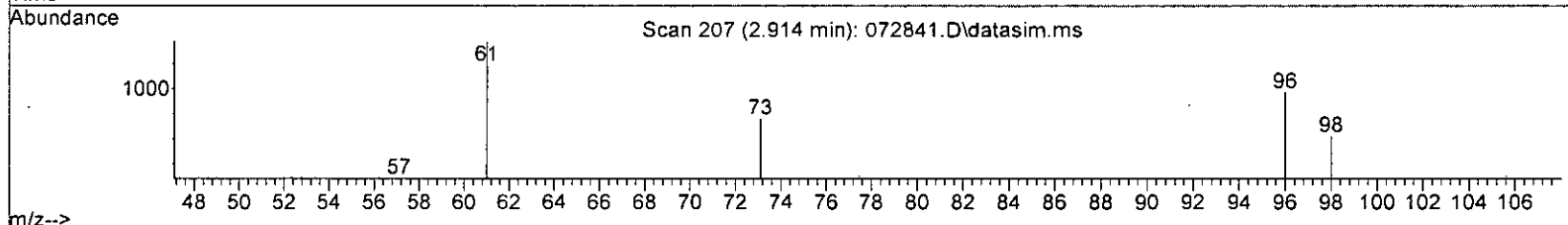
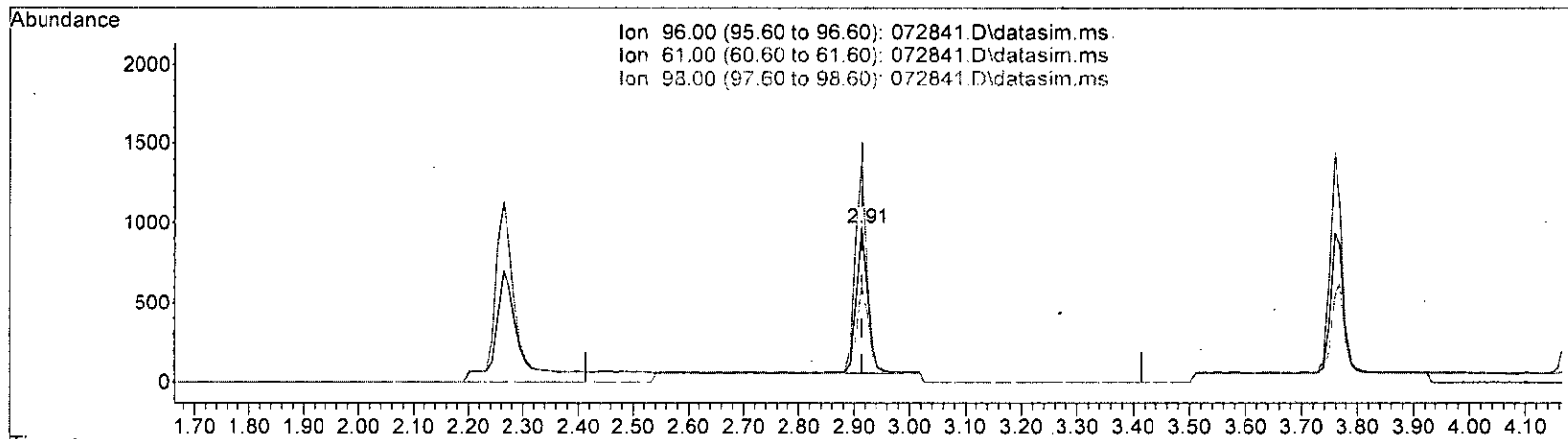
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	142.46
98.00	60.80	63.84
0.00	0.00	0.00

*57/21*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) 47/28

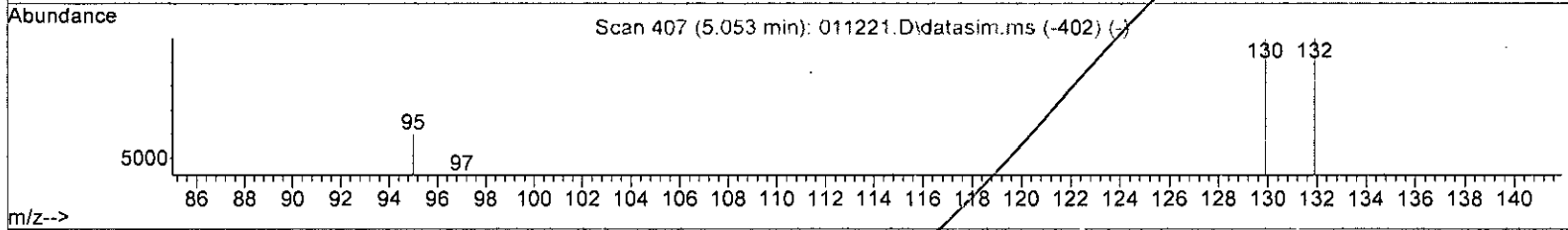
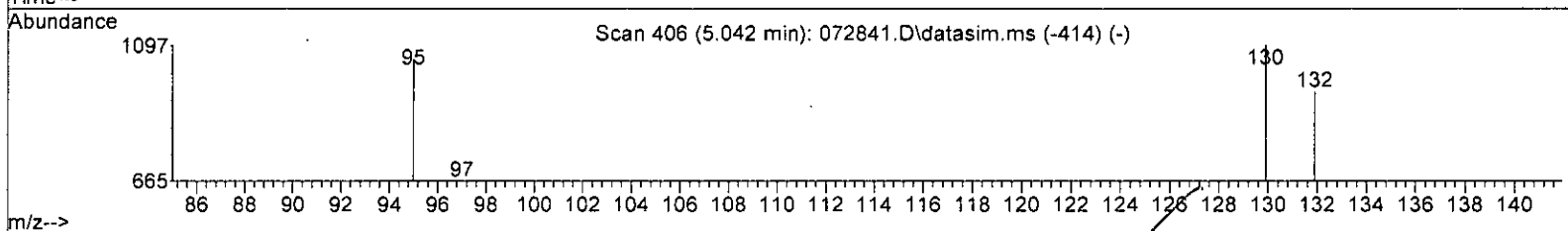
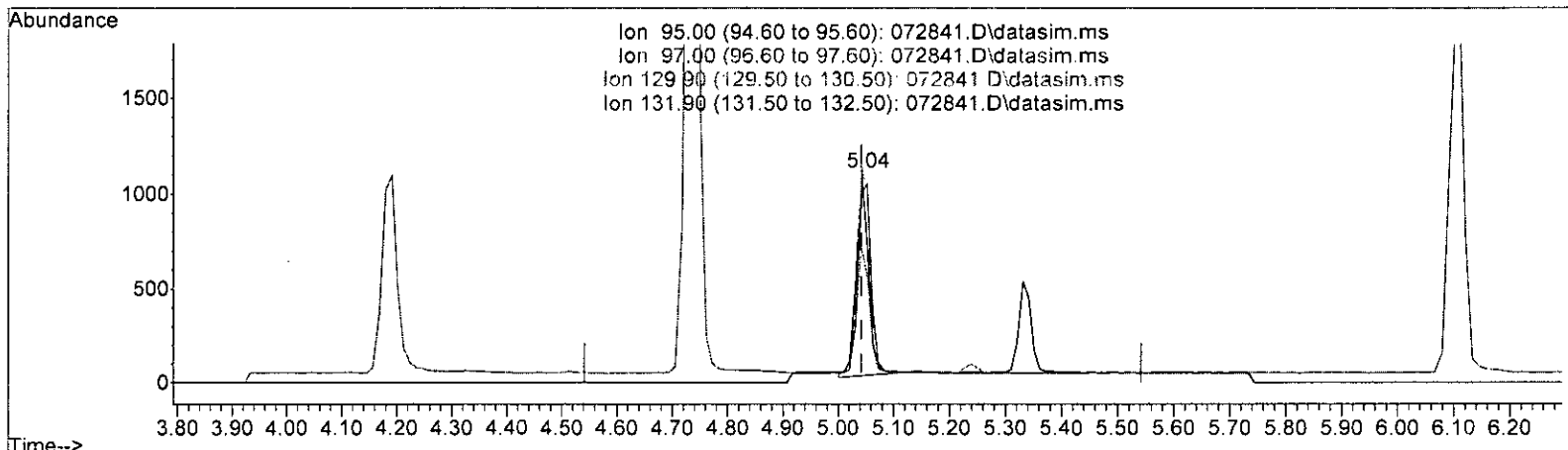
2.914min (-0.000) 0.499 ppb m

response	1349
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 142.46
98.00	60.80 63.84
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(32) Trichloroethene (TMP) *in 7/29*

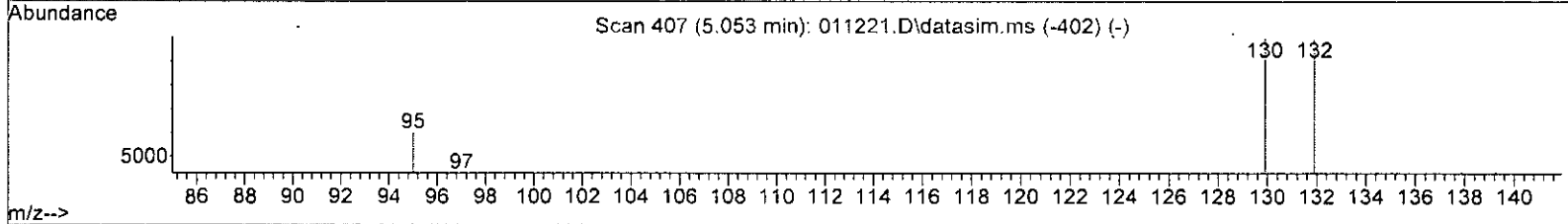
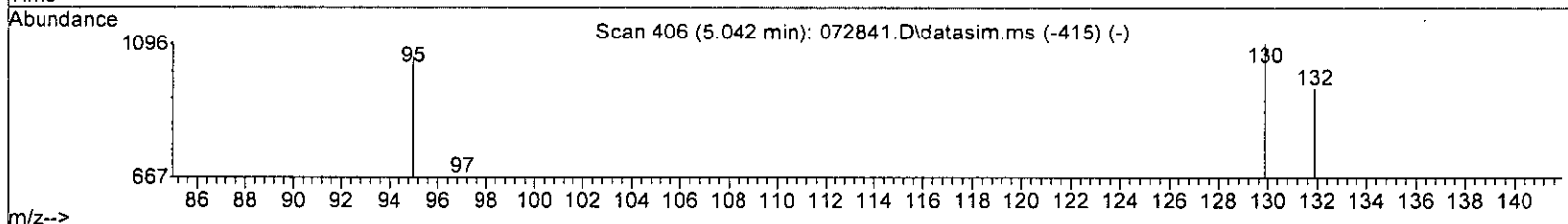
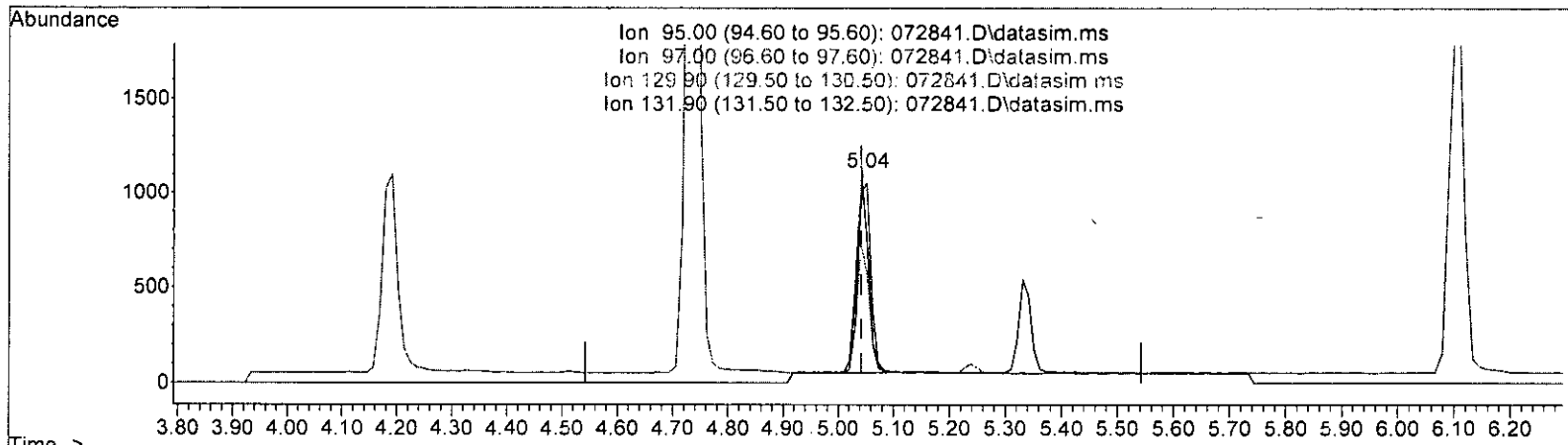
5.042min (+ 0.000) 0.522 ppb

response	1641
Ion	Exp% Act%
95.00	100.00 100.00
97.00	60.80 63.32
129.90	98.60 104.36
131.90	86.60 90.43

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

*m 7/29*

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.490 ppb m

response 1543

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	64.86
129.90	98.60	103.69
131.90	86.60	90.45

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	102881	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	77973	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36990	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	28589	10.241	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.40%	
30) 1,2-Dichloroethane-d4	4.45	102	5991	9.691	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	96.90%	
35) Toluene-d8	6.10	98	114557	10.022	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	100.20%	
57) 4-Bromofluorobenzene	8.50	95	32961	9.893	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.90%	
Target Compounds							
2) Ethanol	2.32	45	243	No Calib			
4) Dichlorodifluoromethane	1.12	85	4667	0.501	ppb	92	
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.32	62	3777m	0.478	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.64	64	1639m	0.494	ppb		
9) Trichlorofluoromethane	1.83	101	6226	0.505	ppb	93	
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	2.32	58	1113	2.733	ppb	# 77	
12] 1,1-Dichloroethene	2.26	96	1387m	0.489	ppb		
13) Hexane	3.15	57	2208	0.545	ppb	97	
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.92	73	3150m	0.488	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1349m	0.499	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	4602	0.478	ppb	93	
19] 1,1-Dichloroethane	3.27	63	2408	0.482	ppb	97	
20) Ethyl t-butyl ether (E...)	3.65	87	1357	0.500	ppb	93	
21) 2,2-Dichloropropane	3.76	77	1449	0.524	ppb	57	
22] cis-1,2-Dichloroethene	3.76	96	1438	0.484	ppb	87	
23) Chloroform	4.03	83	2392	0.512	ppb	89	
24) 2-Butanone (MEK)	3.78	43	5317	2.683	ppb	97	
25) t-Amyl methyl ether (T...)	4.61	73	3071	0.503	ppb	92	
26] 1,2-Dichloroethane (EDC)	4.52	62	2116	0.511	ppb	97	
27] 1,1,1-Trichloroethane	4.19	97	2075	0.497	ppb	98	
28) 1,1-Dichloropropene	4.32	75	1950	0.552	ppb	97	
29) Carbon tetrachloride	4.32	117	1771	0.486	ppb	94	
31] Benzene	4.49	78	5175	0.507	ppb	90	
32] Trichloroethene	5.04	95	1543m	0.490	ppb		
33) 1,2-Dichloropropane	5.23	63	1412	0.510	ppb	# 88	
34) Bromodichloromethane	5.47	83	1739	0.517	ppb	85	
36) Dibromomethane	5.34	93	972	0.544	ppb	95	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

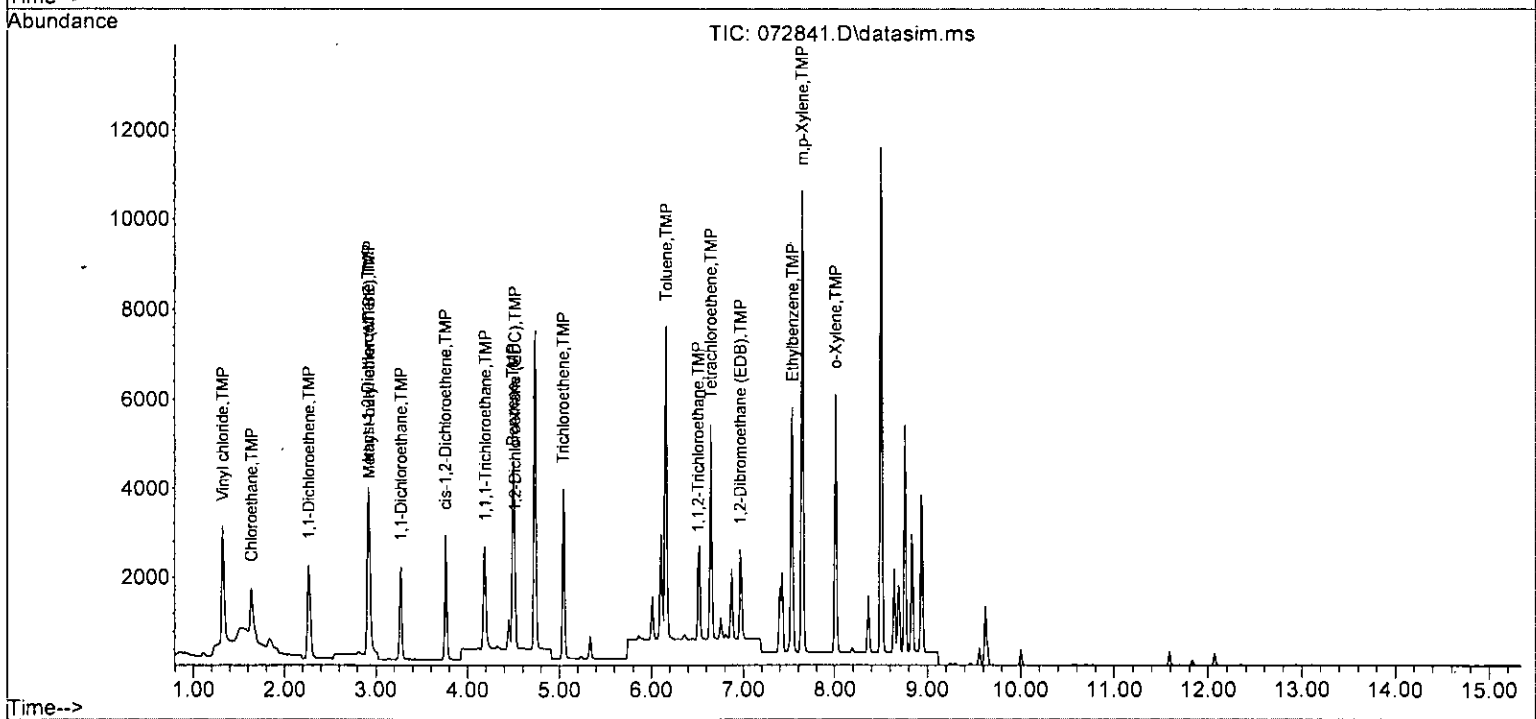
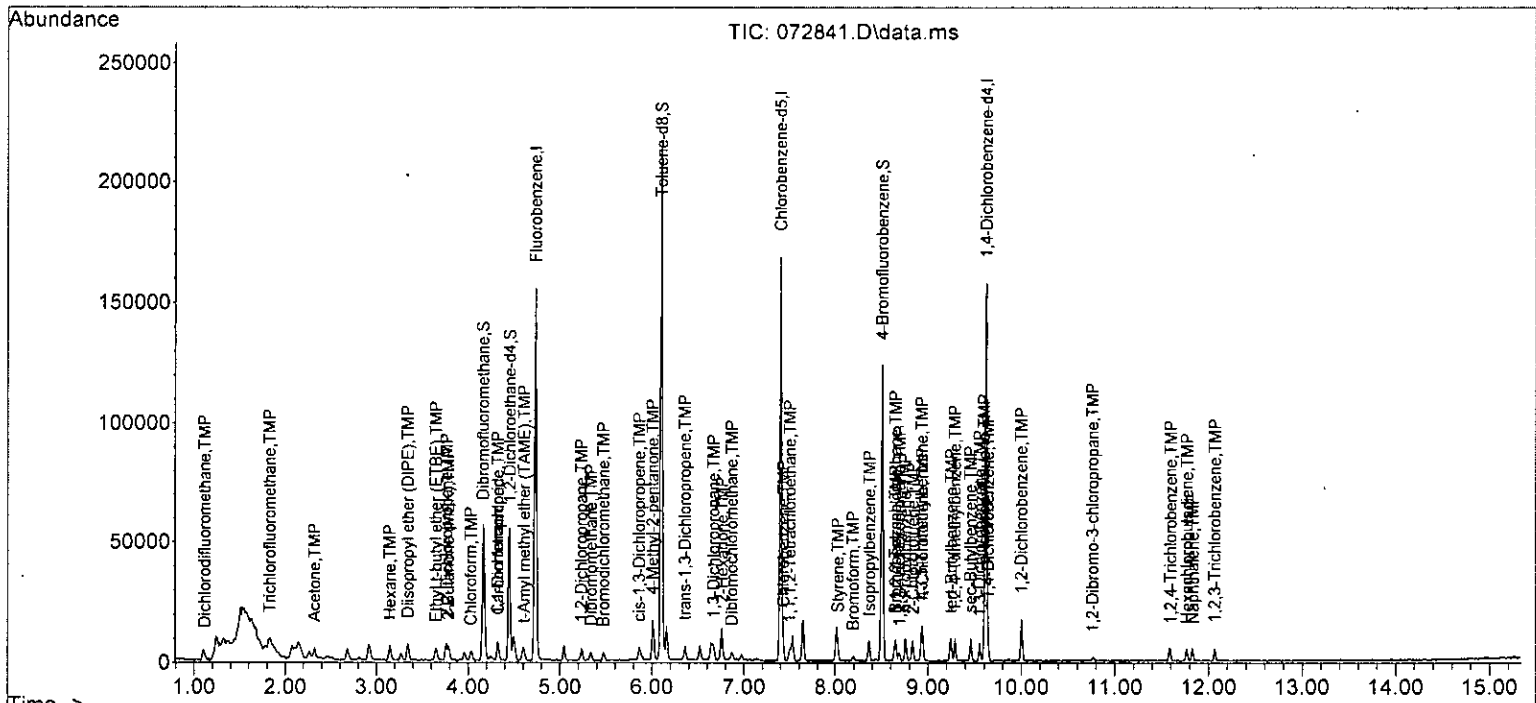
Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	1370	2.359	ppb #	64
38) cis-1,3-Dichloropropene	5.86	75	2177	0.471	ppb	89
40] Toluene	6.16	92	4058	0.512	ppb	95
41) trans-1,3-Dichloropropene	6.36	75	1858	0.452	ppb	95
42] 1,1,2-Trichloroethane	6.51	83	1267	0.502	ppb	92
43) 2-Hexanone	6.76	43	9119	2.594	ppb	96
44) 1,3-Dichloropropane	6.67	76	2417	0.542	ppb	82
45] Tetrachloroethene	6.64	164	1597	0.504	ppb	96
46) Dibromochloromethane	6.87	129	1663	0.491	ppb	98
47] 1,2-Dibromoethane (EDB)	6.97	107	1635	0.491	ppb	98
48) Chlorobenzene	7.43	112	3620	0.499	ppb	98
49] Ethylbenzene	7.54	91	5928	0.501	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	1190	0.464	ppb	95
51] m,p-Xylene	7.64	106	4646	1.004	ppb	100
52] o-Xylene	8.01	106	2230	0.492	ppb	99
53) Styrene	8.03	104	3423	0.484	ppb	96
54) Isopropylbenzene	8.37	105	5242	0.492	ppb	92
55) Bromoform	8.19	173	901	0.484	ppb	77
58) n-Propylbenzene	8.75	91	6826	0.555	ppb	92
59) Bromobenzene	8.65	156	1564	0.519	ppb	87
60) 1,3,5-Trimethylbenzene	8.93	105	4051	0.474	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.65	83	1516	0.534	ppb	82
62) 1,2,3-Trichloropropane	8.69	75	1438	0.591	ppb	97
63) 2-Chlorotoluene	8.84	91	3823	0.531	ppb	91
64) 4-Chlorotoluene	8.94	91	4111	0.492	ppb	99
65) tert-Butylbenzene	9.25	119	3949	0.505	ppb	90
66) 1,2,4-Trimethylbenzene	9.29	105	4406	0.487	ppb	99
67) sec-Butylbenzene	9.45	105	5666	0.493	ppb	96
68) p-Isopropyltoluene	9.60	119	4772	0.497	ppb	94
69) 1,3-Dichlorobenzene	9.55	146	2749	0.515	ppb	93
70) 1,4-Dichlorobenzene	9.64	146	2702	0.495	ppb	79
71) 1,2-Dichlorobenzene	10.00	146	2383	0.470	ppb	80
72) 1,2-Dibromo-3-chloropr...	10.76	75	323	0.599	ppb #	54
73) 1,2,4-Trichlorobenzene	11.60	180	1640	0.488	ppb	77
74) Hexachlorobutadiene	11.77	225	980	0.542	ppb	88
75) Naphthalene	11.83	128	3520	0.445	ppb	95
76) 1,2,3-Trichlorobenzene	12.07	180	1425	0.467	ppb	74

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	10.241	-2.4	100	0.00
4 TMP	Dichlorodifluoromethane	0.500	0.501	-0.2	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.500	0.478	4.4	86	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	0.500	0.494	1.2	77	0.00
9 TMP	Trichlorofluoromethane	0.500	0.505	-1.0	100	-0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	2.500	2.733	-9.3	100	0.00
12 TMP	1,1-Dichloroethene	0.500	0.489	2.2	68	0.00
13 TMP	Hexane	0.500	0.545	-9.0	100	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.500	0.488	2.4	86	0.00
17 TMP	trans-1,2-Dichloroethene	0.500	0.499	0.2	72	0.00
18 TMP	Diisopropyl ether (DIPE)	0.500	0.478	4.4	100	0.00
19 TMP	1,1-Dichloroethane	0.500	0.482	3.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.500	0.500	0.0	100	0.00
21 TMP	2,2-Dichloropropane	0.500	0.524	-4.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.500	0.484	3.2	100	0.00
23 TMP	Chloroform	0.500	0.512	-2.4	100	0.00
24 TMP	2-Butanone (MEK)	2.500	2.683	-7.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.500	0.503	-0.6	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.500	0.511	-2.2	100	0.00
27 TMP	1,1,1-Trichloroethane	0.500	0.497	0.6	100	0.00
28 TMP	1,1-Dichloropropene	0.500	0.552	-10.4	100	0.00
29 TMP	Carbon tetrachloride	0.500	0.486	2.8	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.691	3.1	100	0.00
31 TMP	Benzene	0.500	0.507	-1.4	100	0.00
32 TMP	Trichloroethene	0.500	0.490	2.0	94	0.00
33 TMP	1,2-Dichloropropane	0.500	0.510	-2.0	100	0.00
34 TMP	Bromodichloromethane	0.500	0.517	-3.4	100	0.00
35 S	Toluene-d8	10.000	10.022	-0.2	100	0.00
36 TMP	Dibromomethane	0.500	0.544	-8.8	100	0.00
37 TMP	4-Methyl-2-pentanone	2.500	2.359	5.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.500	0.471	5.8	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.500	0.512	-2.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.500	0.452	9.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.500	0.502	-0.4	100	0.00
43 TMP	2-Hexanone	2.500	2.594	-3.8	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	0.500	0.542	-8.4	100	0.00
45	TMP Tetrachloroethene	0.500	0.504	-0.8	100	0.00
46	TMP Dibromochloromethane	0.500	0.491	1.8	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	0.500	0.491	1.8	100	0.00
48	TMP Chlorobenzene	0.500	0.499	0.2	100	0.00
49	TMP Ethylbenzene	0.500	0.501	-0.2	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	0.500	0.464	7.2	100	0.00
51	TMP m,p-Xylene	1.000	1.004	-0.4	100	0.00
52	TMP o-Xylene	0.500	0.492	1.6	100	0.00
53	TMP Styrene	0.500	0.484	3.2	100	0.00
54	TMP Isopropylbenzene	0.500	0.492	1.6	100	0.01
55	TMP Bromoform	0.500	0.484	3.2	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	9.893	1.1	100	0.00
58	TMP n-Propylbenzene	0.500	0.555	-11.0	100	-0.01
59	TMP Bromobenzene	0.500	0.519	-3.8	100	0.00
60	TMP 1,3,5-Trimethylbenzene	0.500	0.474	5.2	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	0.500	0.534	-6.8	100	0.00
62	TMP 1,2,3-Trichloropropane	0.500	0.591	-18.2	100	0.00
63	TMP 2-Chlorotoluene	0.500	0.531	-6.2	100	0.00
64	TMP 4-Chlorotoluene	0.500	0.492	1.6	100	0.00
65	TMP tert-Butylbenzene	0.500	0.505	-1.0	100	0.00
66	TMP 1,2,4-Trimethylbenzene	0.500	0.487	2.6	100	0.00
67	TMP sec-Butylbenzene	0.500	0.493	1.4	100	0.00
68	TMP p-Isopropyltoluene	0.500	0.497	0.6	100	0.00
69	TMP 1,3-Dichlorobenzene	0.500	0.515	-3.0	100	0.00
70	TMP 1,4-Dichlorobenzene	0.500	0.495	1.0	100	0.00
71	TMP 1,2-Dichlorobenzene	0.500	0.470	6.0	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	0.500	0.599	-19.8	100	0.00
73	TMP 1,2,4-Trichlorobenzene	0.500	0.488	2.4	100	0.00
74	TMP Hexachlorobutadiene	0.500	0.542	-8.4	100	0.00
75	TMP Naphthalene	0.500	0.445	11.0	100	0.00
76	TMP 1,2,3-Trichlorobenzene	0.500	0.467	6.6	100	0.00

(#) = Out of Range

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

## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.01
3 S	Dibromofluoromethane	0.271	0.278	-2.6	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.907	-0.1	100	0.00
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.734	4.6	86	0.00
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.319	1.2	77	0.00
9 TMP	Trichlorofluoromethane	1.197	1.210	-1.1	100	-0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.043	-7.5	100	0.00
12 TMP	1,1-Dichloroethene	0.288	0.270	6.2	68	0.00
13 TMP	Hexane	0.394	0.429	-8.9	100	0.00
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.612	2.4	86	0.00
17 TMP	trans-1,2-Dichloroethene	0.282	0.262	7.1	72	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.895	4.4	100	0.00
19 TMP	1,1-Dichloroethane	0.486	0.468	3.7	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.264	0.0	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.282	-4.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.280	3.1	100	0.00
23 TMP	Chloroform	0.454	0.465	-2.4	100	0.00
24 TMP	2-Butanone (MEK)	0.193	0.207	-7.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.597	-0.5	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.411	11.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.403	0.7	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.379	-10.5	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.344	2.8	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP	Benzene	1.042	1.006	3.5	100	0.00
32 TMP	Trichloroethene	0.326	0.300	8.0	94	0.00
33 TMP	1,2-Dichloropropane	0.269	0.274	-1.9	100	0.00
34 TMP	Bromodichloromethane	0.327	0.338	-3.4	100	0.00
35 S	Toluene-d8	1.111	1.113	-0.2	100	0.00
36 TMP	Dibromomethane	0.174	0.189	-8.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.053	5.4	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.423	5.8	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.041	4.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.477	9.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.325	-0.6	100	0.00
43 TMP	2-Hexanone	0.451	0.468	-3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.620	-8.4	100	0.00
45 TMP Tetrachloroethene	0.446	0.410	8.1	100	0.00
46 TMP Dibromochloromethane	0.434	0.427	1.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.419	10.7	100	0.00
48 TMP Chlorobenzene	0.931	0.929	0.2	100	0.00
49 TMP Ethylbenzene	1.609	1.521	5.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.305	7.3	100	0.00
51 TMP m,p-Xylene	0.630	0.596	5.4	100	0.00
52 TMP o-Xylene	0.606	0.572	5.6	100	0.00
53 TMP Styrene	0.906	0.878	3.1	100	0.00
54 TMP Isopropylbenzene	1.367	1.345	1.6	100	0.01
55 TMP Bromoform	0.239	0.231	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.891	1.1	100	0.00
58 TMP n-Propylbenzene	3.326	3.691	-11.0	100	-0.01
59 TMP Bromobenzene	0.814	0.846	-3.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.190	5.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.820	-6.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.778	-18.2	100	0.00
63 TMP 2-Chlorotoluene	1.947	2.067	-6.2	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.223	1.5	100	0.00
65 TMP tert-Butylbenzene	2.112	2.135	-1.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.382	2.5	100	0.00
67 TMP sec-Butylbenzene	3.109	3.064	1.4	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.580	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.486	-3.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.461	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.288	6.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.175	-19.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.887	2.3	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.530	-8.4	100	0.00
75 TMP Naphthalene	2.138	1.903	11.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.770	6.8	100	0.00

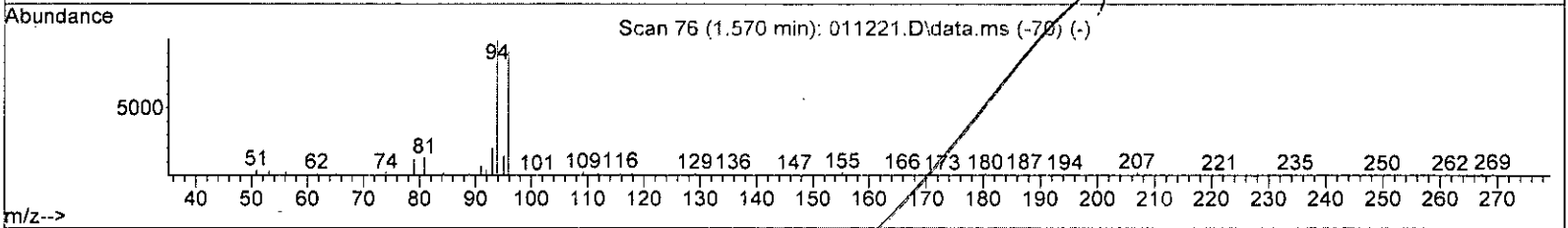
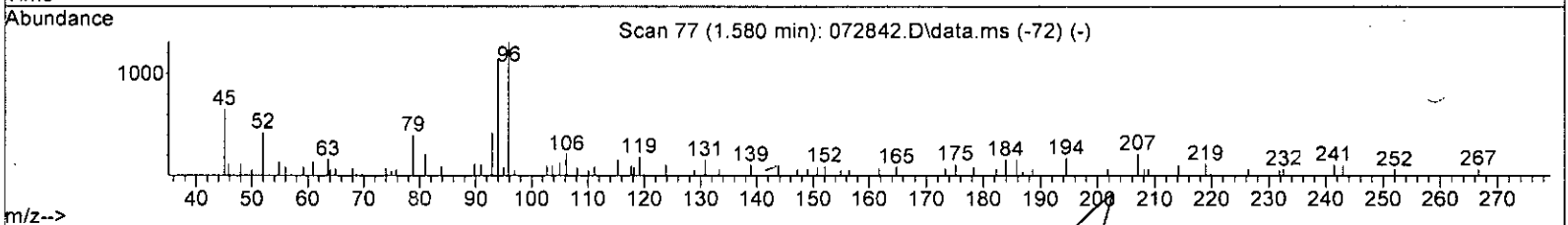
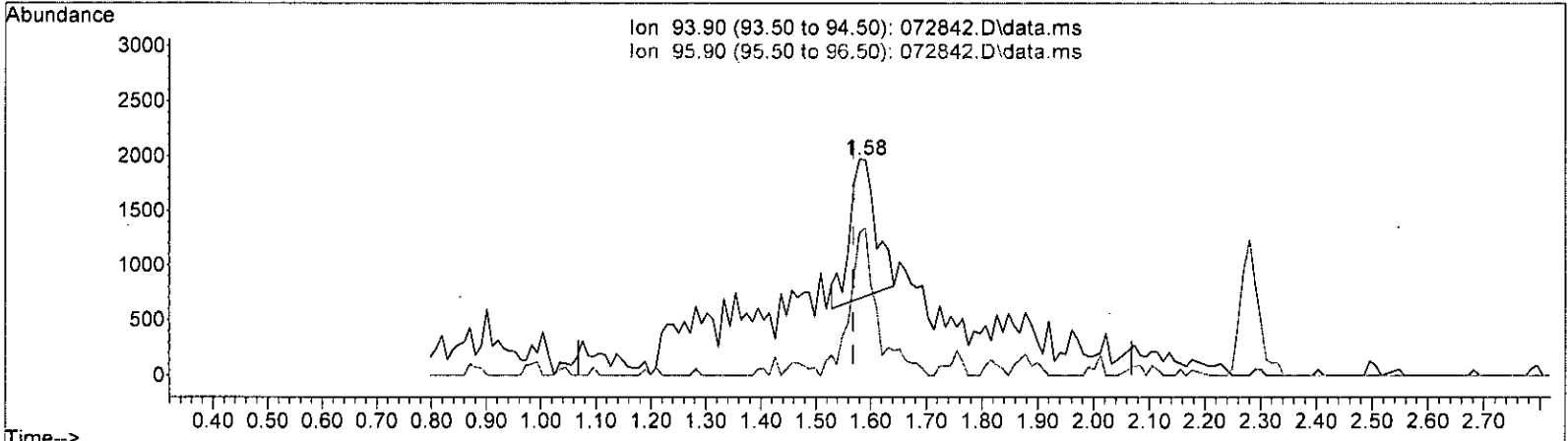
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

(7) Bromomethane (TMP)

1.580min (+ 0.011) 0.976 ppb

response 4150

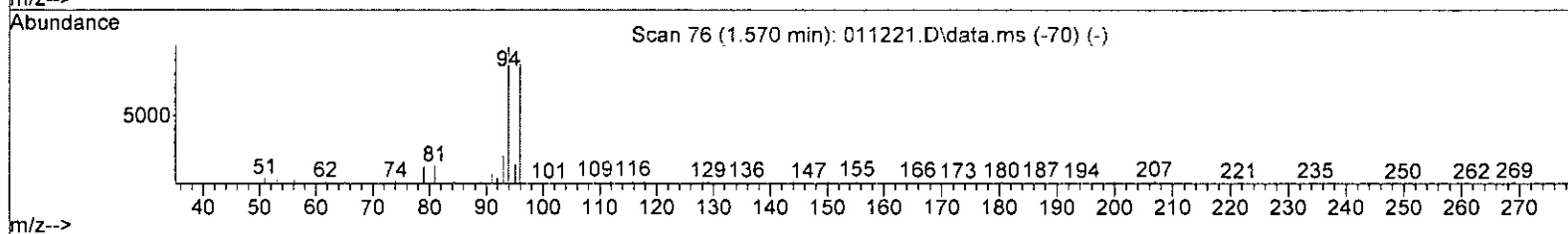
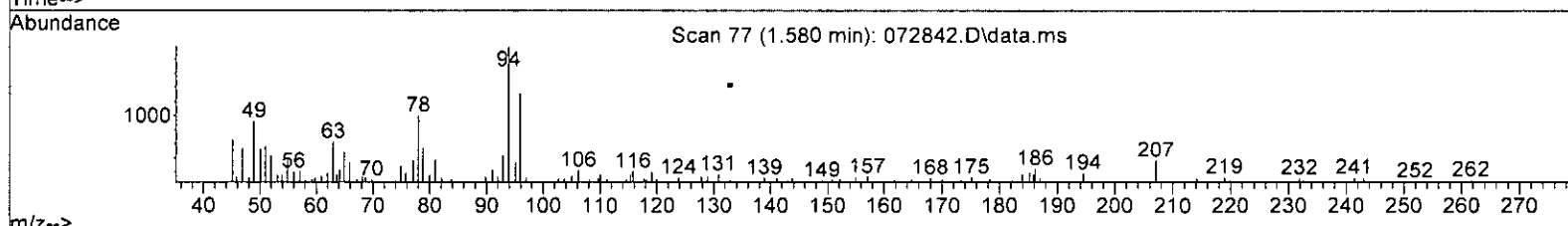
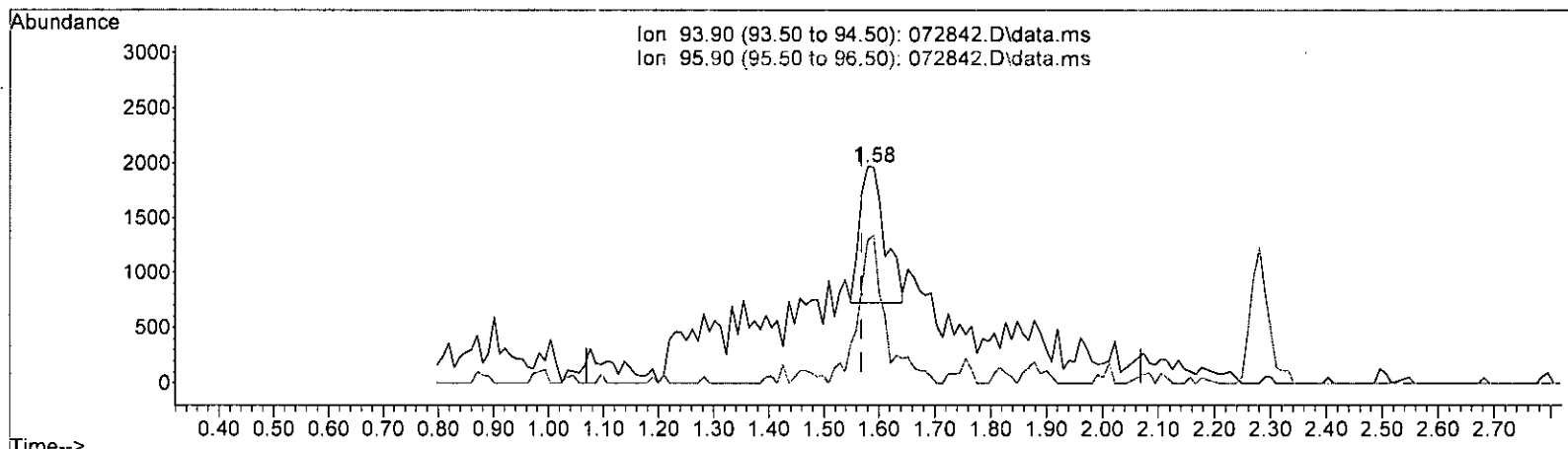
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	96.55
0.00	0.00	0.00
0.00	0.00	0.00

M 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072842.D\data.ms

(7) Bromomethane (TMP)

1.580min (+ 0.011) 0.912 ppb m

response 3876

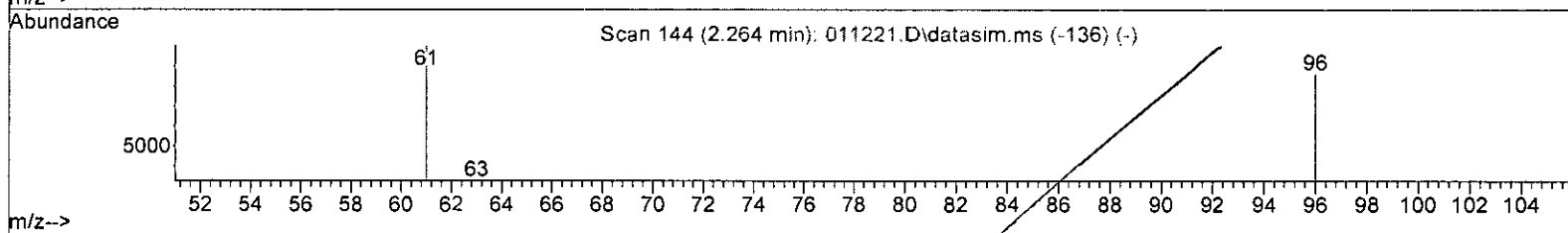
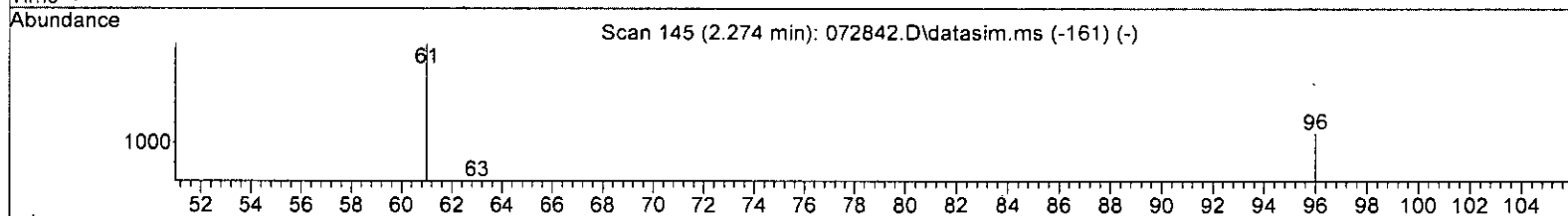
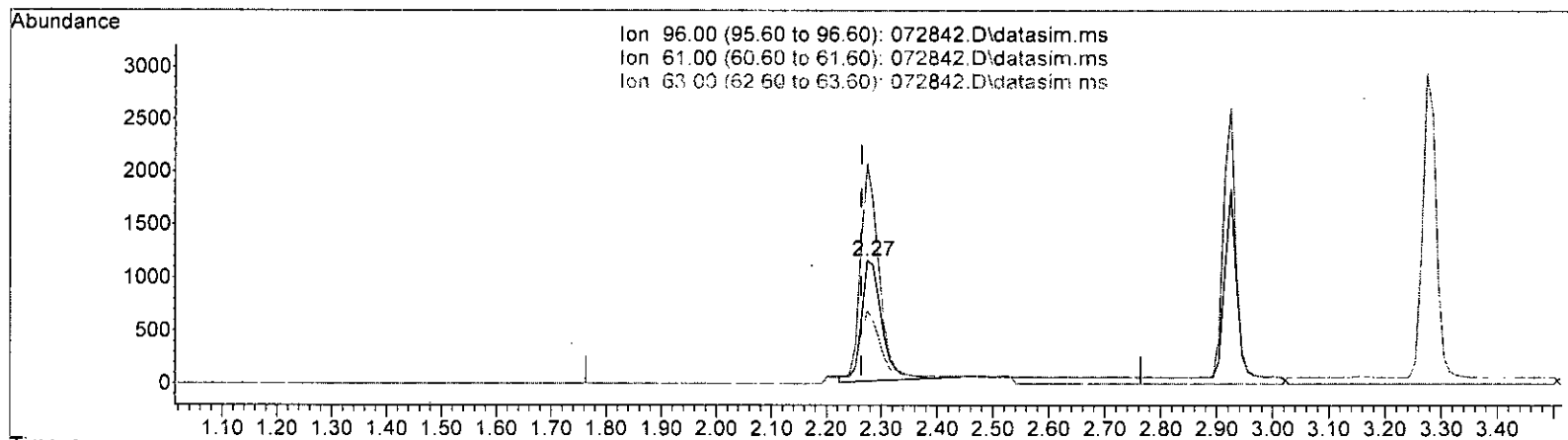
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	66.09#
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/28*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072842.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.960 ppb

response 2958

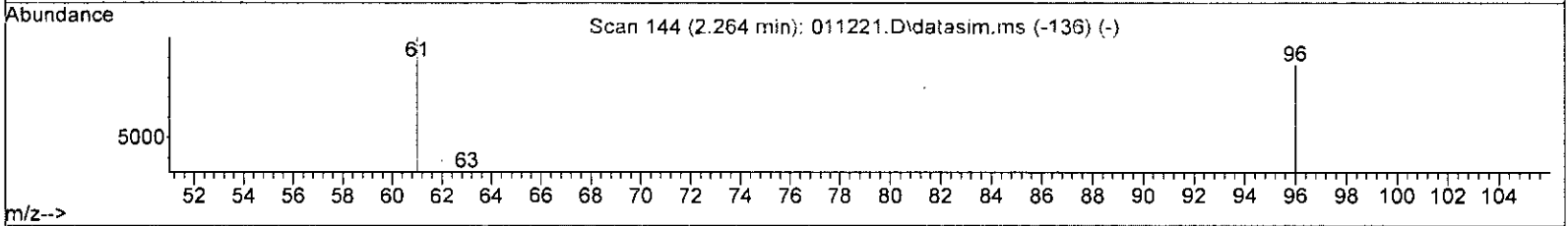
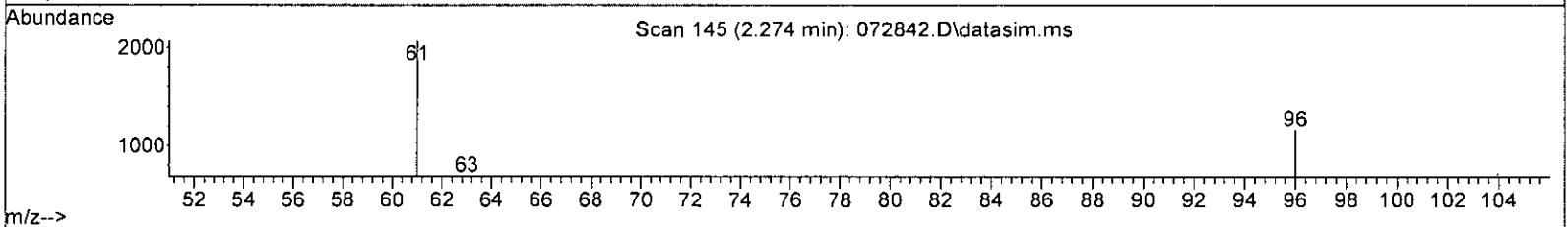
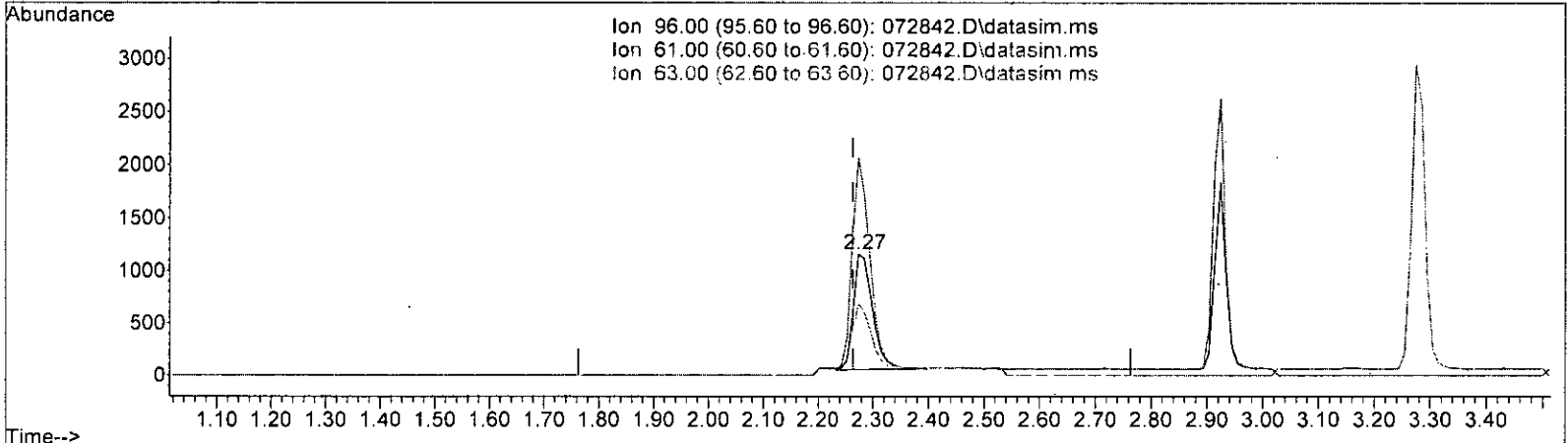
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	182.63
63.00	54.90	56.22
0.00	0.00	0.00

*m/z/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.866 ppb m

response 2670

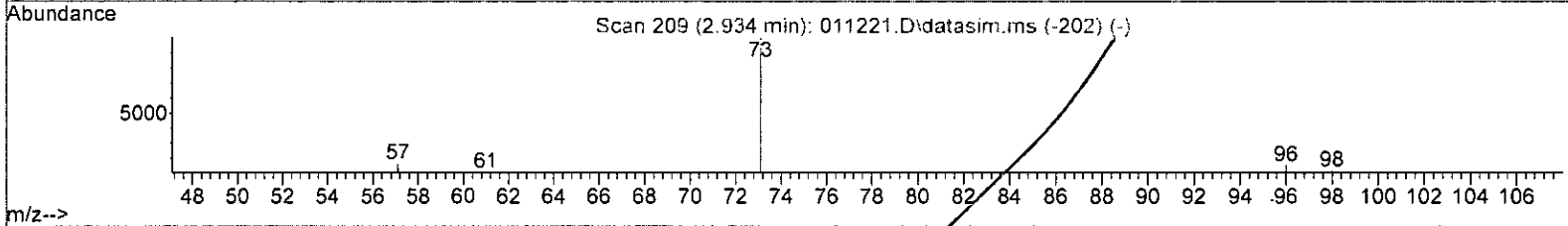
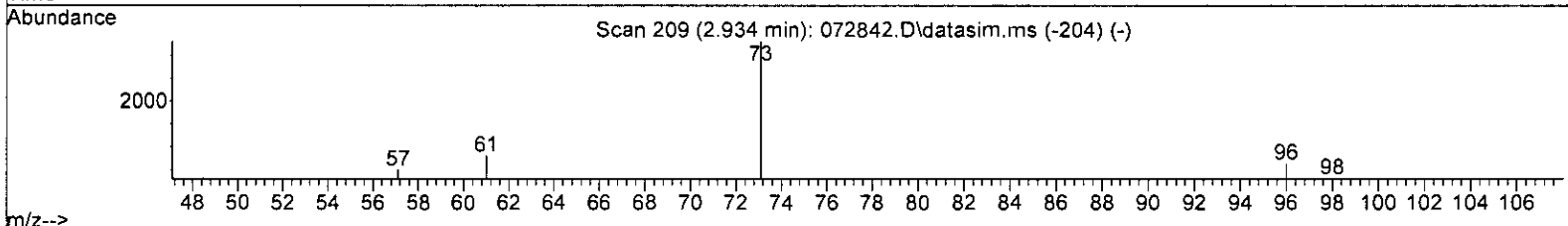
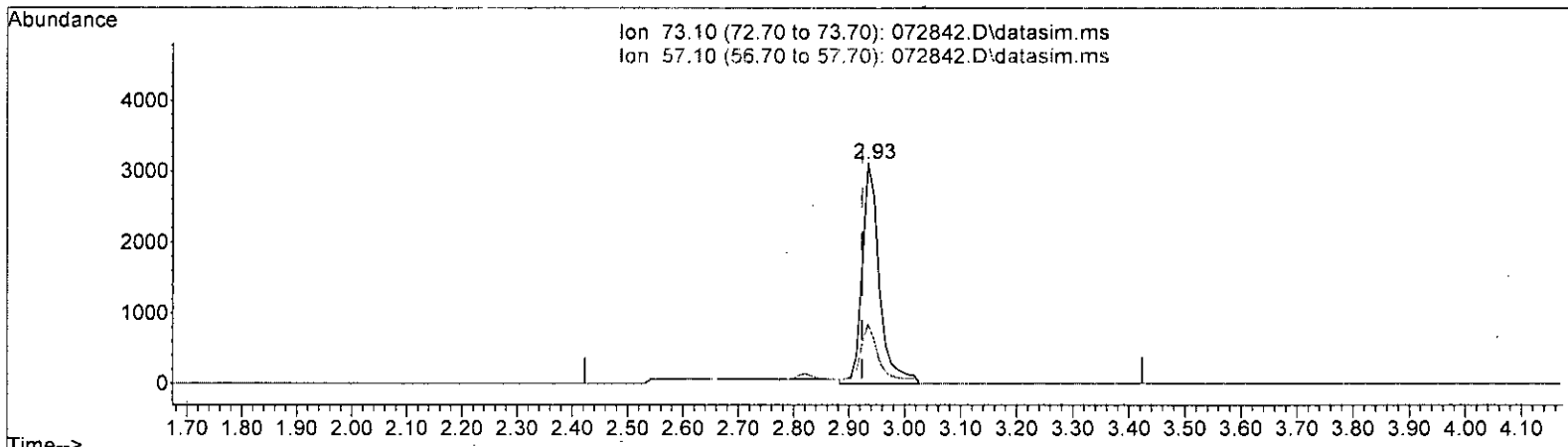
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	178.15
63.00	54.90	59.33
0.00	0.00	0.00

*m 2/21*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

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

2.934min (+ 0.010) 0.936 ppb

response 6626

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	27.20
0.00	0.00	0.00
0.00	0.00	0.00

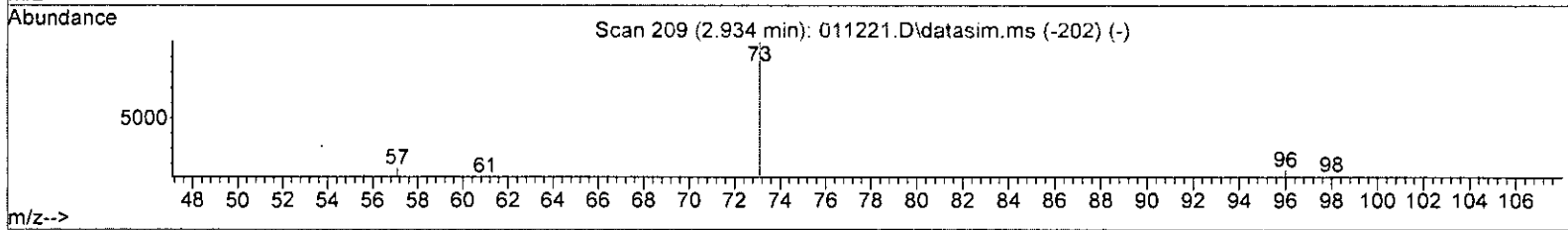
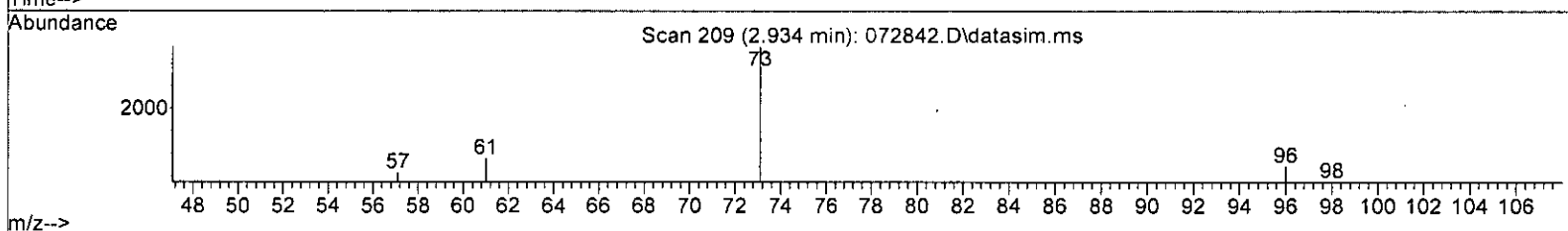
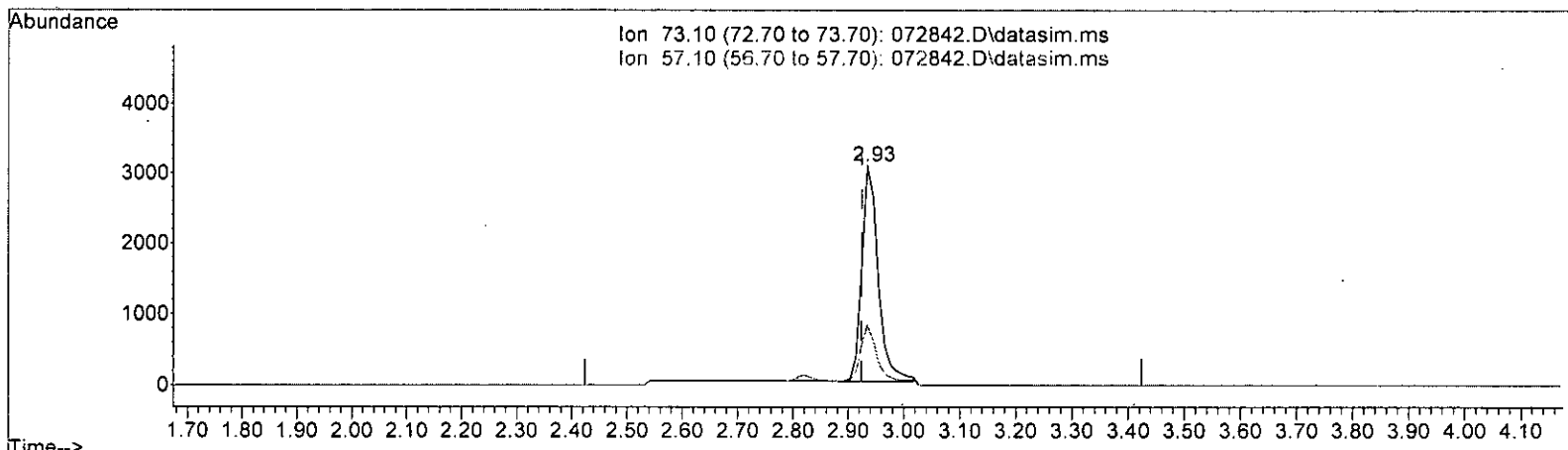
m 7/29



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

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

2.934min (+ 0.010) 0.875 ppb m

response 6192

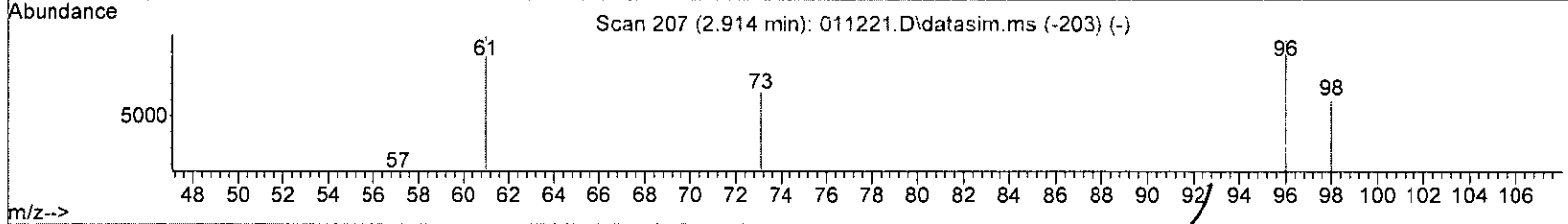
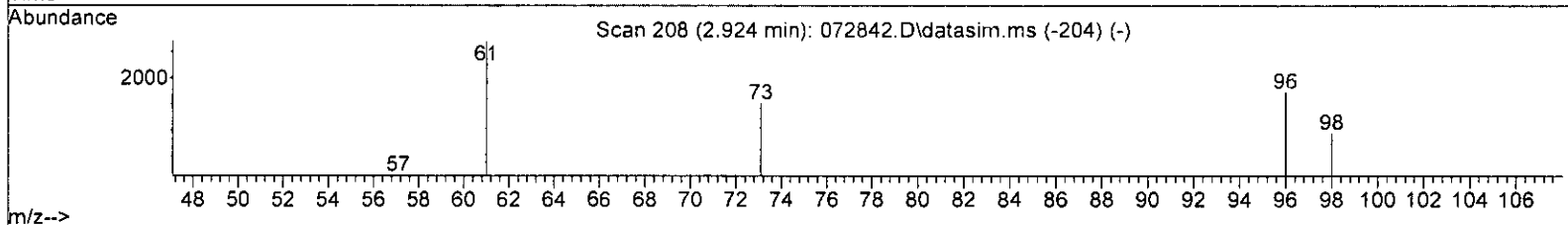
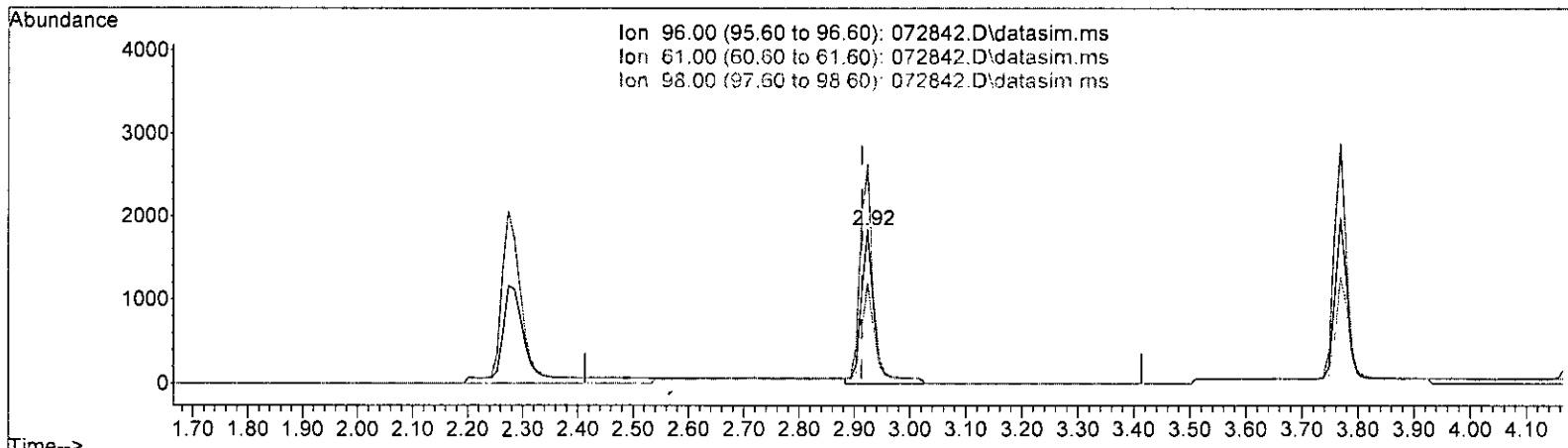
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	27.20
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

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

2.924min (+ 0.010) 1.057 ppb

response 3080

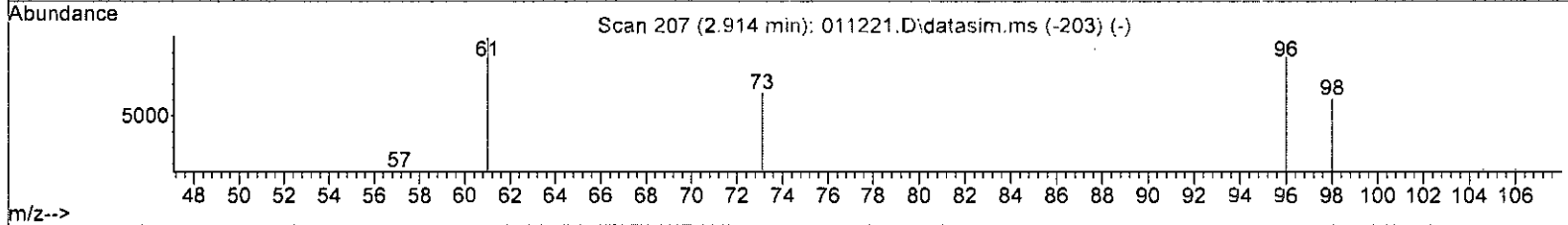
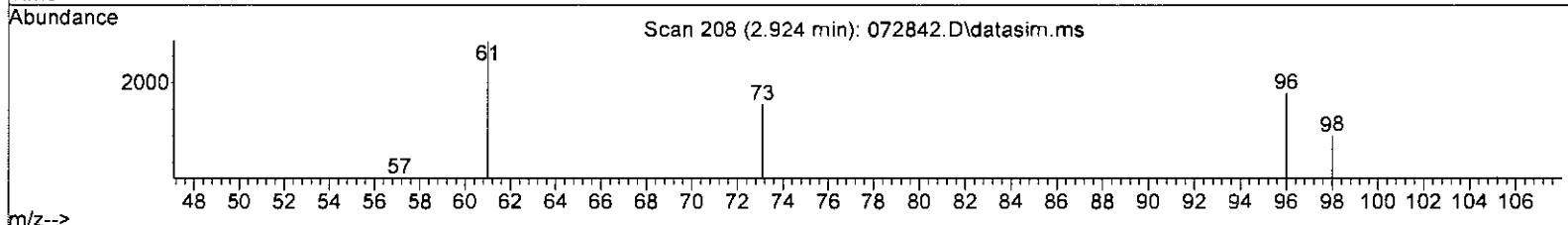
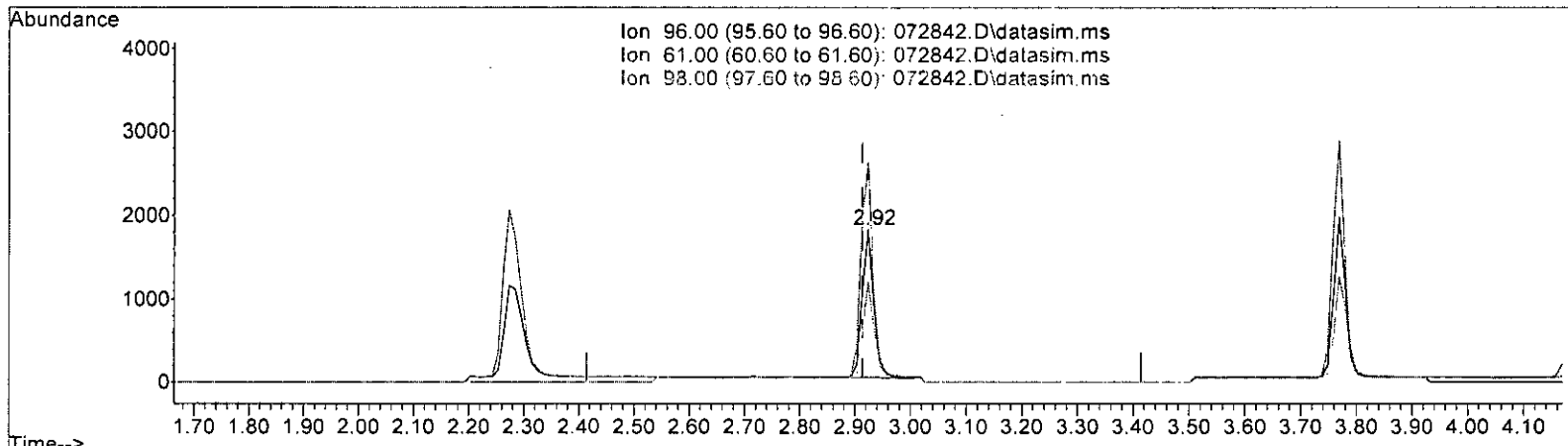
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	143.01
98.00	60.80	65.28
0.00	0.00	0.00

*in 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms *m 7/29*

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

2.924min (+ 0.010) 0.900 ppb m

response	2629
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 143.01
98.00	60.80 65.28
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	112825	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	78090	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37483	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	28110	9.182	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	91.80%	
30) 1,2-Dichloroethane-d4	4.45	102	5878	8.670	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	86.70%	
35) Toluene-d8	6.10	98	113289	9.038	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	90.40%	
57) 4-Bromofluorobenzene	8.50	95	33528	9.931	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	99.30%	
Target Compounds						
2) Ethanol	2.33	45	136	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	8628	0.844	ppb	94
5) Chloromethane	1.26	50	10562	0.986	ppb	85
6] Vinyl chloride	1.33	62	7953	0.917	ppb	99
7) Bromomethane	1.58	94	3879m	0.913	ppb	
8] Chloroethane	1.65	64	3359	0.923	ppb	76
9) Trichlorofluoromethane	1.85	101	10925	0.809	ppb	100
10) 2-Propanol	2.33	45	136	No Calib		
11) Acetone	2.33	58	2097	4.695	ppb	97
12] 1,1-Dichloroethene	2.27	96	2611m	0.846	ppb	
13) Hexane	3.16	57	3935	0.886	ppb	98
14) Methylene chloride	2.69	84	3024	1.100	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	1780	4.854	ppb	59
16] Methyl t-butyl ether (...)	2.93	73	6192m	0.875	ppb	
17] trans-1,2-Dichloroethene	2.92	96	2629m	0.900	ppb	
18) Diisopropyl ether (DIPE)	3.35	45	9706	0.919	ppb	98
19] 1,1-Dichloroethane	3.27	63	4818	0.879	ppb	95
20) Ethyl t-butyl ether (E...)	3.66	87	2553	0.858	ppb	# 86
21) 2,2-Dichloropropane	3.76	77	2981	0.983	ppb	93
22] cis-1,2-Dichloroethene	3.77	96	2868	0.880	ppb	95
23) Chloroform	4.04	83	4822	0.941	ppb	94
24) 2-Butanone (MEK)	3.79	43	9366	4.310	ppb	95
25) t-Amyl methyl ether (T...)	4.61	73	5900	0.881	ppb	90
26] 1,2-Dichloroethane (EDC)	4.52	62	4235	0.960	ppb	99
27] 1,1,1-Trichloroethane	4.19	97	4062	0.887	ppb	96
28) 1,1-Dichloropropene	4.33	75	3279	0.847	ppb	86
29) Carbon tetrachloride	4.33	117	3383	0.846	ppb	# 63
31] Benzene	4.50	78	10288	0.929	ppb	98
32] Trichloroethene	5.04	95	3048	0.894	ppb	93
33) 1,2-Dichloropropane	5.24	63	2792	0.919	ppb	# 88
34) Bromodichloromethane	5.48	83	2945	0.798	ppb	94
36) Dibromomethane	5.34	93	1738	0.888	ppb	81

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

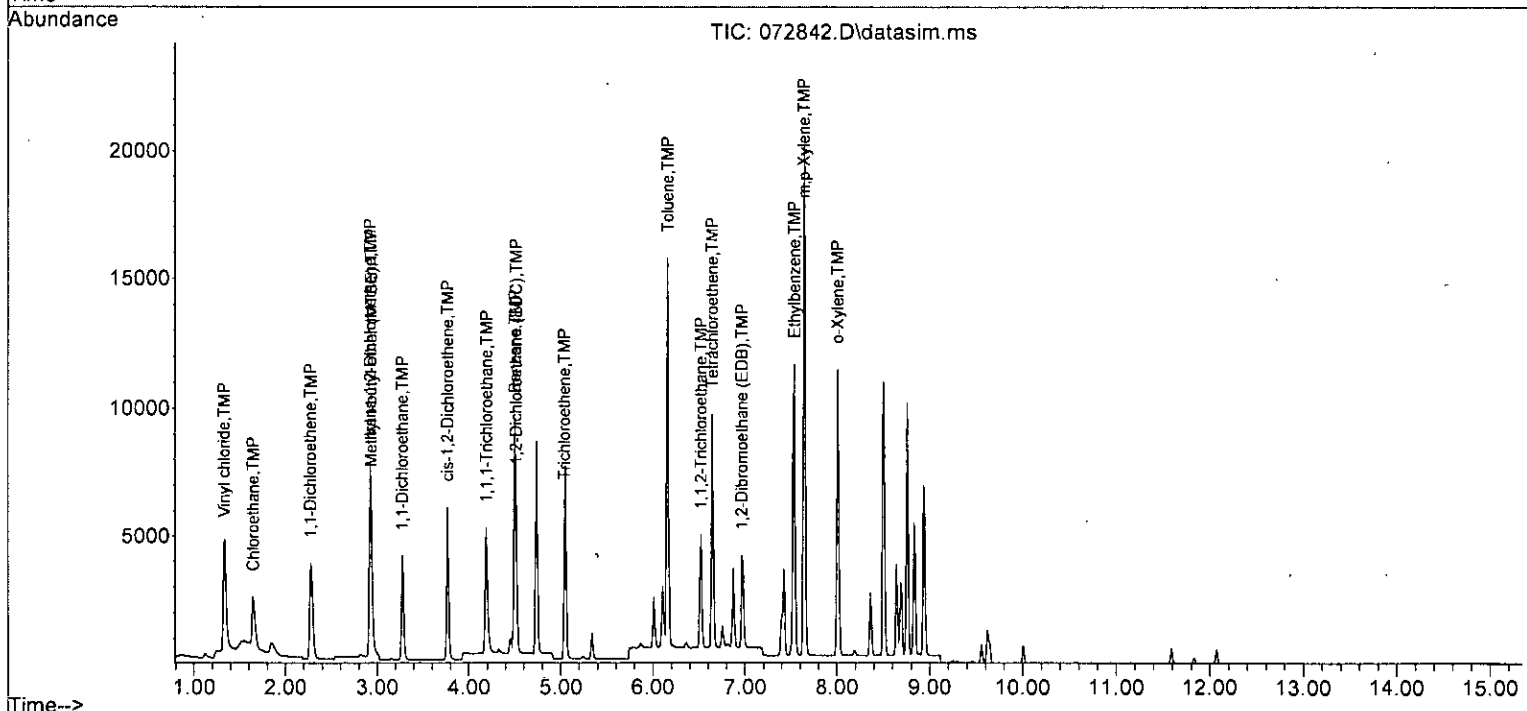
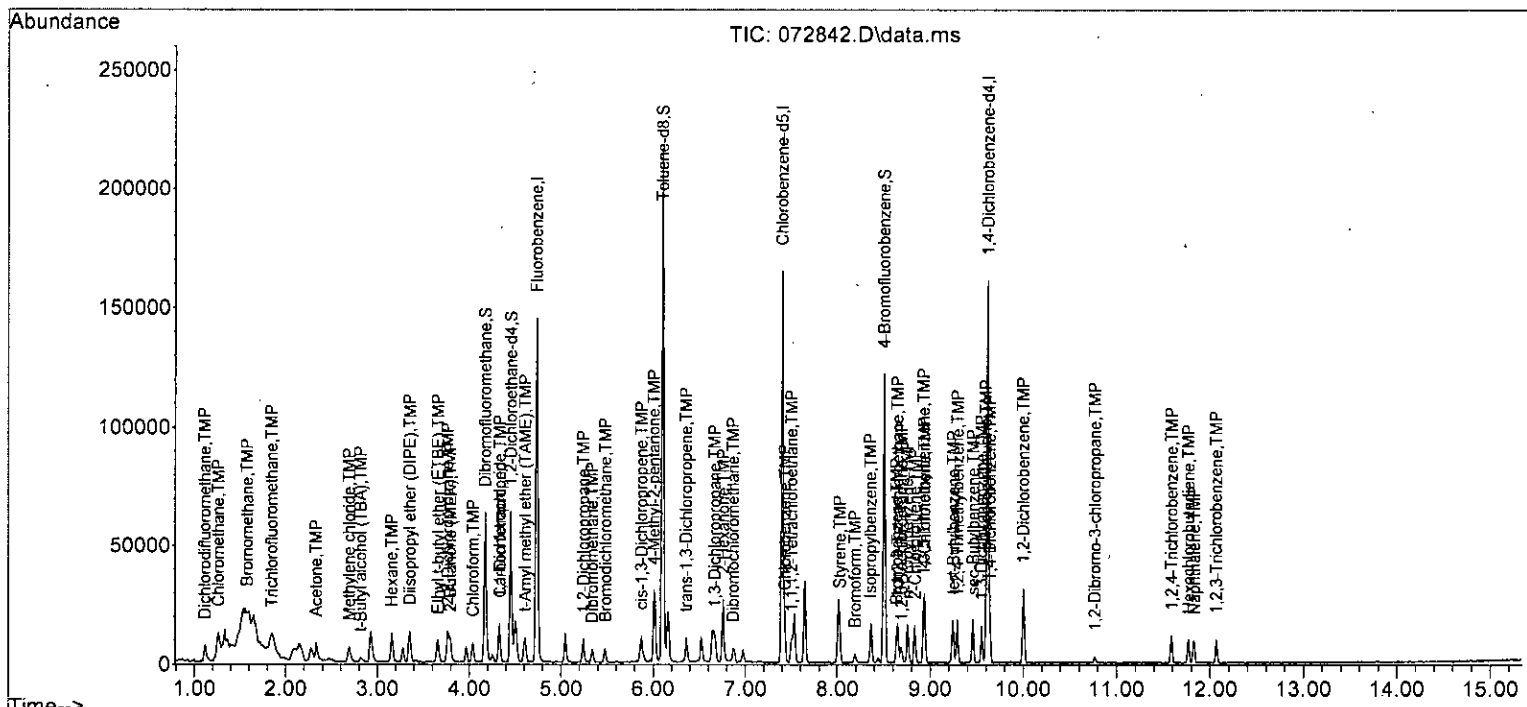
Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	2998	4.707	ppb	91
38) cis-1,3-Dichloropropene	5.87	75	4183	0.825	ppb	93
40] Toluene	6.16	92	7959	1.019	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	3252	0.790	ppb	95
42] 1,1,2-Trichloroethane	6.52	83	2485	0.984	ppb #	73
43) 2-Hexanone	6.76	43	16887	4.797	ppb	98
44) 1,3-Dichloropropane	6.67	76	4582	1.026	ppb	90
45] Tetrachloroethene	6.64	164	3151	1.014	ppb	95
46) Dibromochloromethane	6.87	129	3253	0.959	ppb	88
47] 1,2-Dibromoethane (EDB)	6.97	107	3179	0.962	ppb	96
48) Chlorobenzene	7.43	112	7234	0.995	ppb	97
49] Ethylbenzene	7.54	91	11743	1.004	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.50	131	2466	0.960	ppb	87
51] m,p-Xylene	7.64	106	9153	2.000	ppb	99
52] o-Xylene	8.01	106	4419	0.983	ppb	98
53) Styrene	8.03	104	6153	0.869	ppb	89
54) Isopropylbenzene	8.36	105	10096	0.946	ppb	98
55) Bromoform	8.19	173	1608	0.862	ppb	83
58) n-Propylbenzene	8.75	91	12092	0.970	ppb	96
59) Bromobenzene	8.64	156	2911	0.954	ppb	90
60) 1,3,5-Trimethylbenzene	8.93	105	8500	0.981	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.65	83	2757	0.958	ppb	94
62) 1,2,3-Trichloropropane	8.69	75	2673	1.084	ppb	91
63) 2-Chlorotoluene	8.84	91	7328	1.004	ppb	96
64) 4-Chlorotoluene	8.94	91	8361	0.988	ppb	97
65) tert-Butylbenzene	9.25	119	7487	0.946	ppb	95
66) 1,2,4-Trimethylbenzene	9.29	105	8935	0.975	ppb	99
67) sec-Butylbenzene	9.46	105	11229	0.964	ppb	99
68) p-Isopropyltoluene	9.60	119	9627	0.990	ppb	98
69) 1,3-Dichlorobenzene	9.55	146	5258	0.972	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	5603	1.013	ppb	97
71) 1,2-Dichlorobenzene	10.00	146	4925	0.958	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.77	75	529	0.968	ppb	89
73) 1,2,4-Trichlorobenzene	11.59	180	2850	0.838	ppb	83
74) Hexachlorobutadiene	11.77	225	1817	0.992	ppb	86
75) Naphthalene	11.83	128	6850	0.855	ppb	94
76) 1,2,3-Trichlorobenzene	12.07	180	2689	0.869	ppb	90

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	9.182	8.2	100	0.01
4 TMP	Dichlorodifluoromethane	1.000	0.844	15.6	100	0.01
5 TMP	Chloromethane	1.000	0.986	1.4	100	0.01
6 TMP	Vinyl chloride	1.000	0.917	8.3	109	0.01
7 TMP	Bromomethane	1.000	0.913	8.7	104	0.01
8 TMP	Chloroethane	1.000	0.923	7.7	100	0.01
9 TMP	Trichlorofluoromethane	1.000	0.809	19.1	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	5.000	4.695	6.1	100	0.01
12 TMP	1,1-Dichloroethene	1.000	0.846	15.4	98	0.01
13 TMP	Hexane	1.000	0.886	11.4	100	0.01
14 TMP	Methylene chloride	-1.000	1.100	0.0	0	0.01
15 TMP	t-Butyl alcohol (TBA)	5.000	4.854	2.9	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	1.000	0.875	12.5	100	0.01
17 TMP	trans-1,2-Dichloroethene	1.000	0.900	10.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	1.000	0.919	8.1	100	0.01
19 TMP	1,1-Dichloroethane	1.000	0.879	12.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	1.000	0.858	14.2	100	0.01
21 TMP	2,2-Dichloropropane	1.000	0.983	1.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	1.000	0.880	12.0	100	0.01
23 TMP	Chloroform	1.000	0.941	5.9	100	0.01
24 TMP	2-Butanone (MEK)	5.000	4.310	13.8	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	1.000	0.881	11.9	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	1.000	0.960	4.0	100	0.00
27 TMP	1,1,1-Trichloroethane	1.000	0.887	11.3	100	0.00
28 TMP	1,1-Dichloropropene	1.000	0.847	15.3	100	0.01
29 TMP	Carbon tetrachloride	1.000	0.846	15.4	100	0.01
30 S	1,2-Dichloroethane-d4	10.000	8.670	13.3	100	0.00
31 TMP	Benzene	1.000	0.929	7.1	100	0.01
32 TMP	Trichloroethene	1.000	0.894	10.6	100	0.00
33 TMP	1,2-Dichloropropane	1.000	0.919	8.1	100	0.01
34 TMP	Bromodichloromethane	1.000	0.798	20.2#	100	0.01
35 S	Toluene-d8	10.000	9.038	9.6	100	0.00
36 TMP	Dibromomethane	1.000	0.888	11.2	100	0.00
37 TMP	4-Methyl-2-pentanone	5.000	4.707	5.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	1.000	0.825	17.5	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	1.000	1.019	-1.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	1.000	0.790	21.0#	100	0.00
42 TMP	1,1,2-Trichloroethane	1.000	0.984	1.6	100	0.01
43 TMP	2-Hexanone	5.000	4.797	4.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.026	-2.6	100	0.00
45 TMP Tetrachloroethene	1.000	1.014	-1.4	100	0.00
46 TMP Dibromochloromethane	1.000	0.959	4.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	1.000	0.962	3.8	100	0.00
48 TMP Chlorobenzene	1.000	0.995	0.5	100	0.00
49 TMP Ethylbenzene	1.000	1.004	-0.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	0.960	4.0	100	0.00
51 TMP m,p-Xylene	2.000	2.000	0.0	100	0.00
52 TMP o-Xylene	1.000	0.983	1.7	100	0.00
53 TMP Styrene	1.000	0.869	13.1	100	0.00
54 TMP Isopropylbenzene	1.000	0.946	5.4	100	0.00
55 TMP Bromoform	1.000	0.862	13.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.931	0.7	100	0.00
58 TMP n-Propylbenzene	1.000	0.970	3.0	100	-0.01
59 TMP Bromobenzene	1.000	0.954	4.6	100	-0.01
60 TMP 1,3,5-Trimethylbenzene	1.000	0.981	1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	0.958	4.2	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.084	-8.4	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.004	-0.4	100	0.00
64 TMP 4-Chlorotoluene	1.000	0.988	1.2	100	0.00
65 TMP tert-Butylbenzene	1.000	0.946	5.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	0.975	2.5	100	0.00
67 TMP sec-Butylbenzene	1.000	0.964	3.6	100	0.00
68 TMP p-Isopropyltoluene	1.000	0.990	1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	0.972	2.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.013	-1.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	0.958	4.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.968	3.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	0.838	16.2	100	0.00
74 TMP Hexachlorobutadiene	1.000	0.992	0.8	100	0.00
75 TMP Naphthalene	1.000	0.855	14.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	0.869	13.1	100	0.00

(#) = Out of Range

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



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.271	0.249	8.1	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.765	15.6	100	0.01
5 TMP	Chloromethane	0.949	0.936	1.4	100	0.01
6 TMP	Vinyl chloride	0.769	0.705	8.3	109	0.01
7 TMP	Bromomethane	0.377	0.344	8.8	104	0.01
8 TMP	Chloroethane	0.323	0.298	7.7	100	0.01
9 TMP	Trichlorofluoromethane	1.197	0.968	19.1	100	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.040	0.037	7.5	100	0.01
12 TMP	1,1-Dichloroethene	0.288	0.231	19.8	98	0.01
13 TMP	Hexane	0.394	0.349	11.4	100	0.01
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	0.01
15 TMP	t-Butyl alcohol (TBA)	0.033	0.032	3.0	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.549	12.4	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.233	17.4	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.860	8.1	100	0.01
19 TMP	1,1-Dichloroethane	0.486	0.427	12.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.226	14.4	100	0.01
21 TMP	2,2-Dichloropropane	0.269	0.264	1.9	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.254	12.1	100	0.01
23 TMP	Chloroform	0.454	0.427	5.9	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.166	14.0	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.523	12.0	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.375	18.8	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.360	11.3	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.291	15.2	100	0.01
29 TMP	Carbon tetrachloride	0.354	0.300	15.3	100	0.01
30 S	1,2-Dichloroethane-d4	0.060	0.052	13.3	100	0.00
31 TMP	Benzene	1.042	0.912	12.5	100	0.01
32 TMP	Trichloroethene	0.326	0.270	17.2	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.247	8.2	100	0.01
34 TMP	Bromodichloromethane	0.327	0.261	20.2#	100	0.01
35 S	Toluene-d8	1.111	1.004	9.6	100	0.00
36 TMP	Dibromomethane	0.174	0.154	11.5	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.053	5.4	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.371	17.4	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.019	6.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.416	21.1#	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.318	1.5	100	0.01
43 TMP	2-Hexanone	0.451	0.433	4.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.587	-2.6	100	0.00
45 TMP Tetrachloroethene	0.446	0.404	9.4	100	0.00
46 TMP Dibromochloromethane	0.434	0.417	3.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.407	13.2	100	0.00
48 TMP Chlorobenzene	0.931	0.926	0.5	100	0.00
49 TMP Ethylbenzene	1.609	1.504	6.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.316	4.0	100	0.00
51 TMP m,p-Xylene	0.630	0.586	7.0	100	0.00
52 TMP o-Xylene	0.606	0.566	6.6	100	0.00
53 TMP Styrene	0.906	0.788	13.0	100	0.00
54 TMP Isopropylbenzene	1.367	1.293	5.4	100	0.00
55 TMP Bromoform	0.239	0.206	13.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.894	0.8	100	0.00
58 TMP n-Propylbenzene	3.326	3.226	3.0	100	-0.01
59 TMP Bromobenzene	0.814	0.777	4.5	100	-0.01
60 TMP 1,3,5-Trimethylbenzene	2.311	2.268	1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.736	4.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.713	-8.4	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.955	-0.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.231	1.2	100	0.00
65 TMP tert-Butylbenzene	2.112	1.997	5.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.384	2.5	100	0.00
67 TMP sec-Butylbenzene	3.109	2.996	3.6	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.568	1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.403	2.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.495	-1.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.314	4.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.141	3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.760	16.3	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.485	0.8	100	0.00
75 TMP Naphthalene	2.138	1.827	14.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.717	13.2	100	0.00

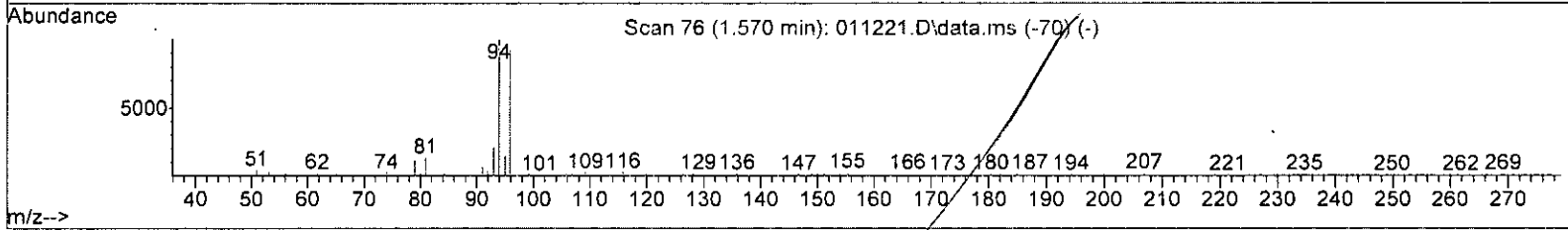
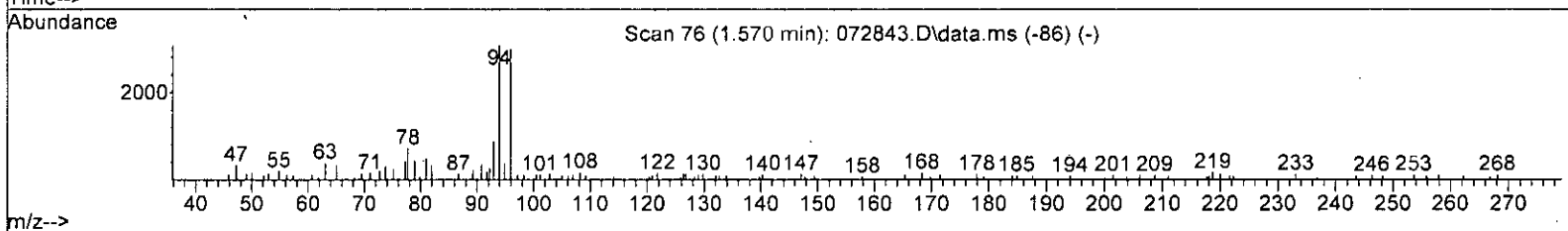
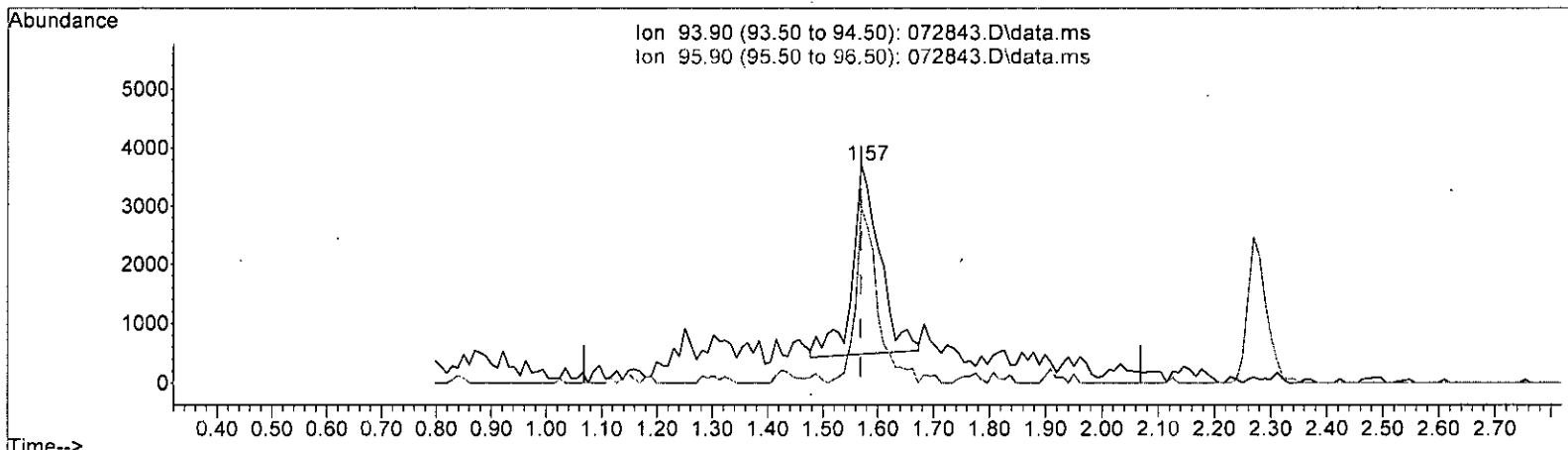
(#) = Out of Range

SPCC's out = 2 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms

(7) Bromomethane (TMP)

1.570min (+ 0.001) 2.908 ppb

response 11162

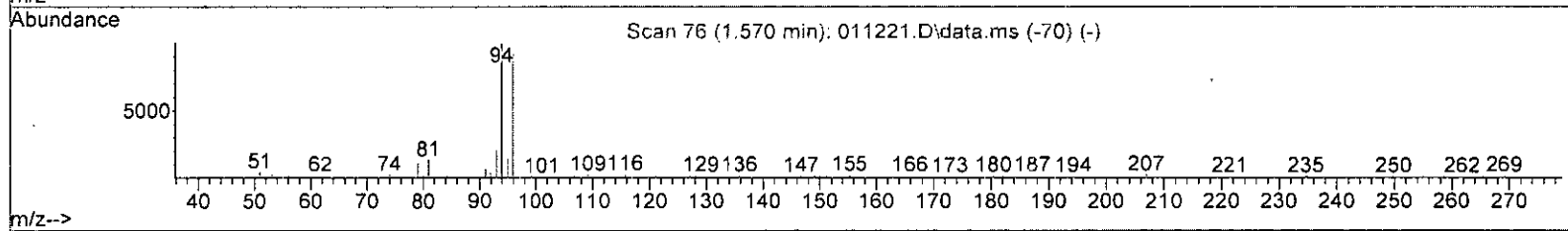
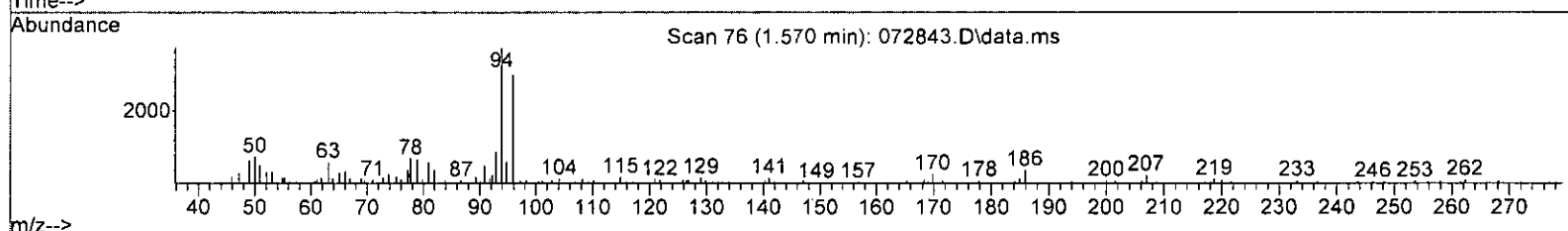
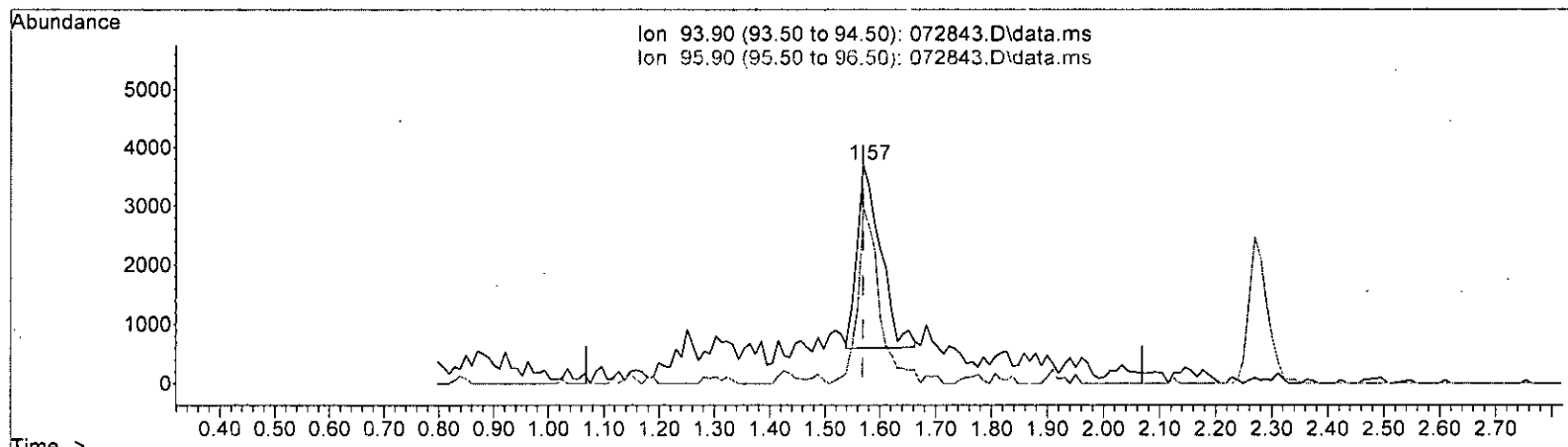
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	93.81
0.00	0.00	0.00
0.00	0.00	0.00

*MD*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



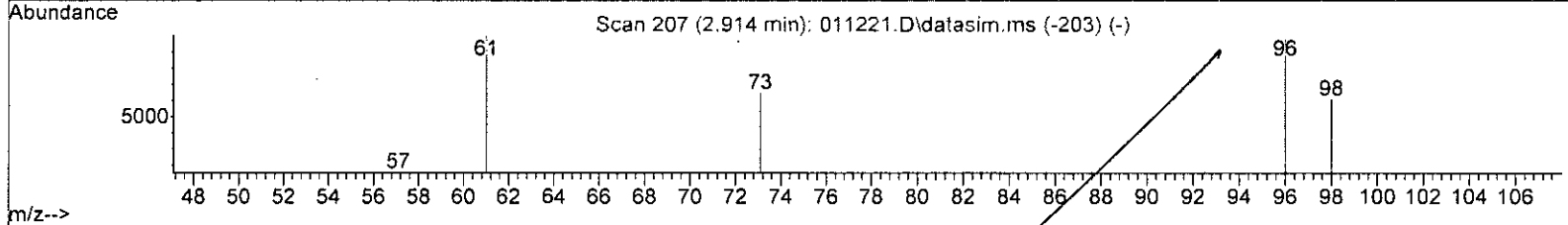
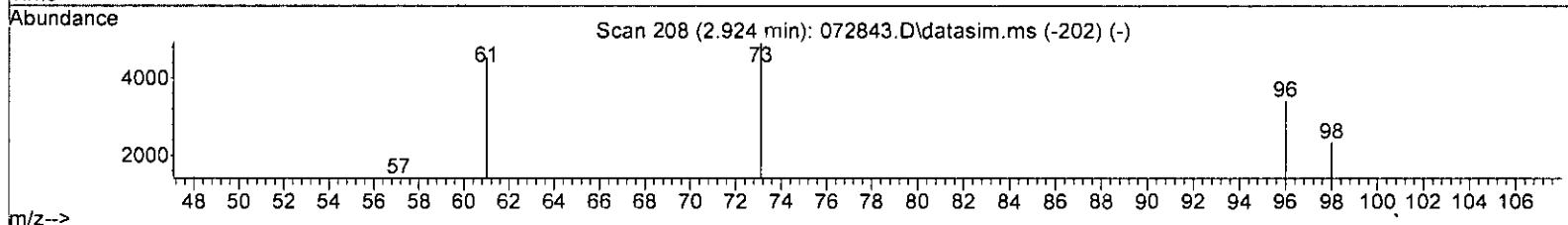
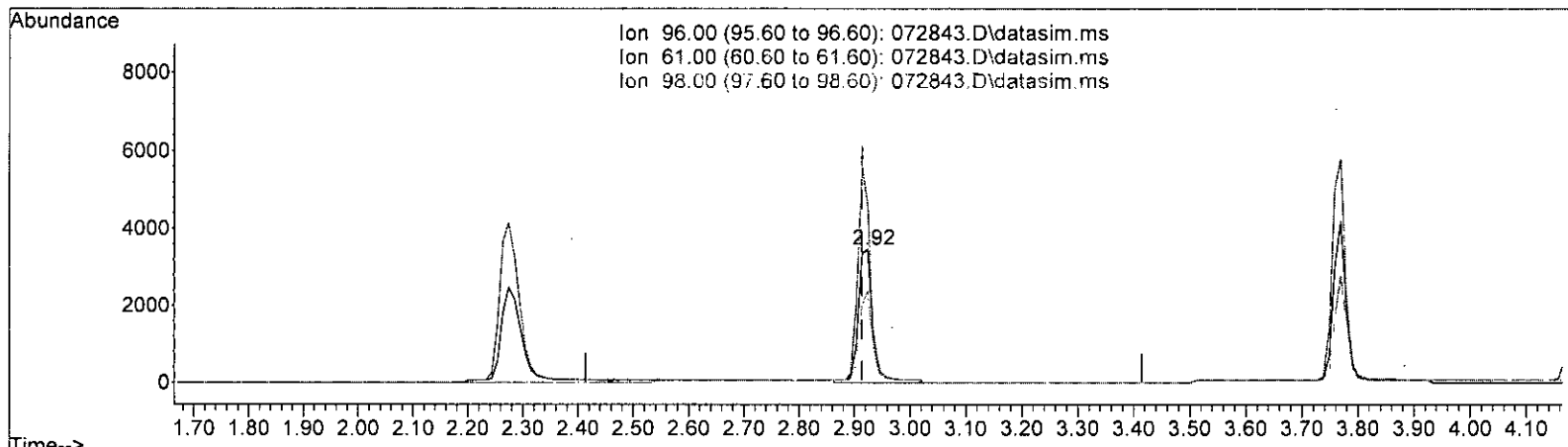
TIC: 072843.D\data.ms *m 7/20*

(7) Bromomethane (TMP)		
Retention Time	Concentration	Response
1.570min (+ 0.001)	2.382 ppb m	9142
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	80.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m 7/29*

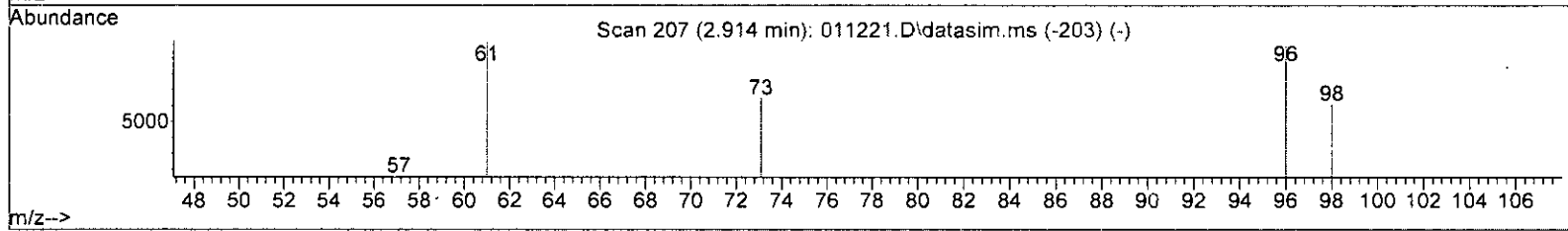
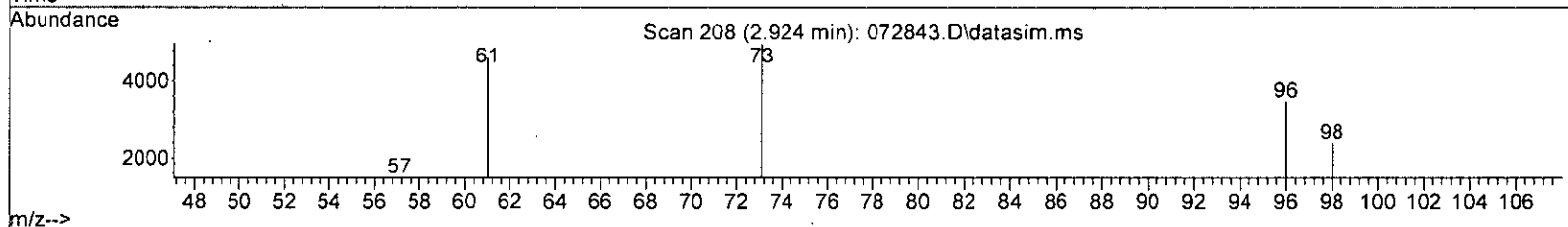
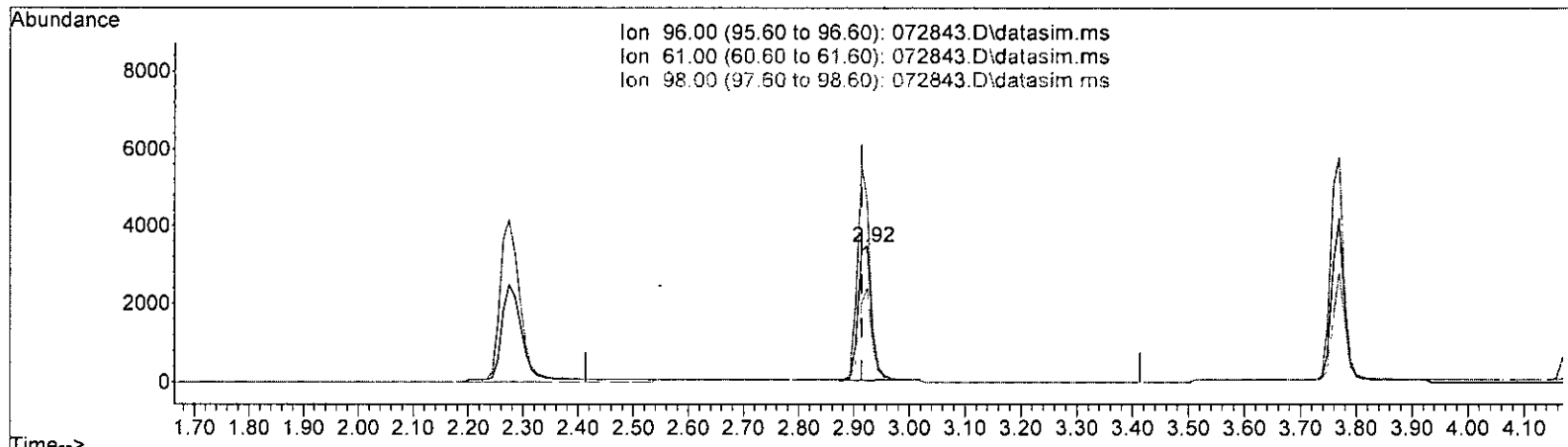
2.924min (+ 0.010) 2.407 ppb

response	6280
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 132.65#
98.00	60.80 68.76
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms *7/29*

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

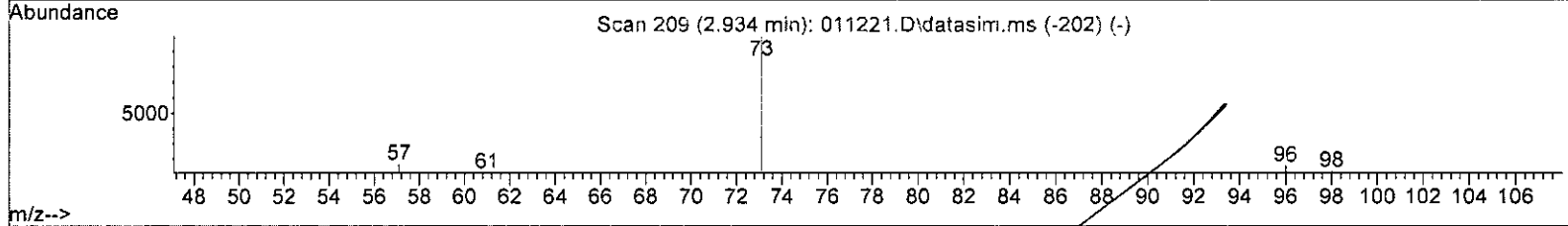
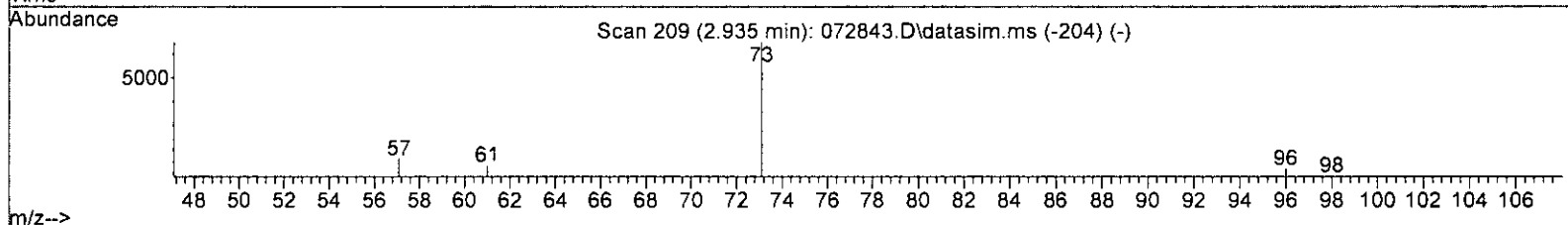
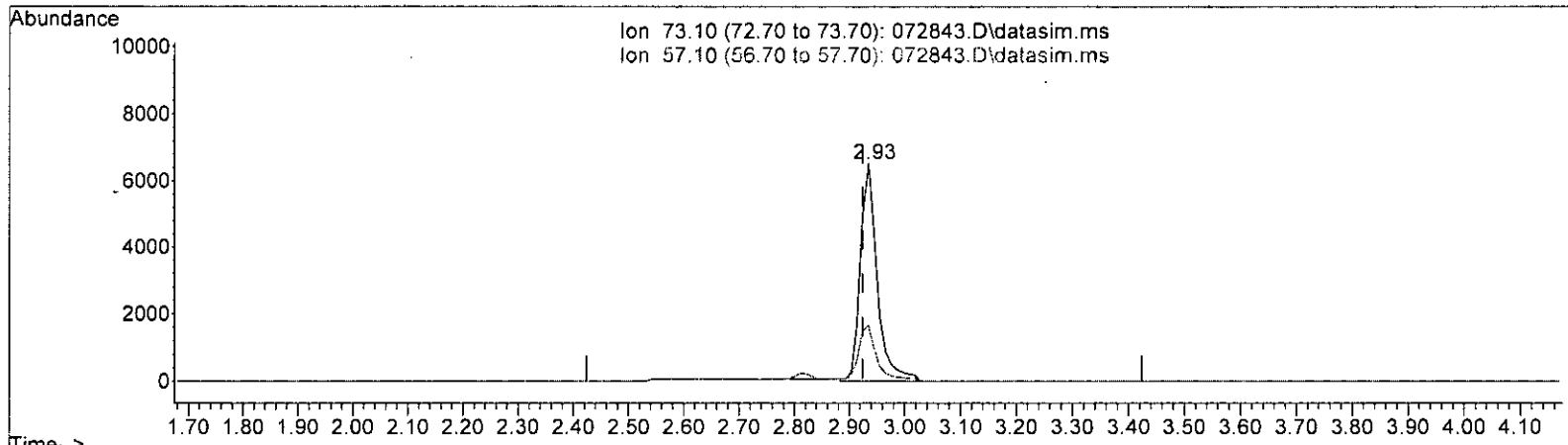
2.924min (+ 0.010) 2.205 ppb m

response	5758
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 132.65#
98.00	60.80 68.76
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms *v-7/29*

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

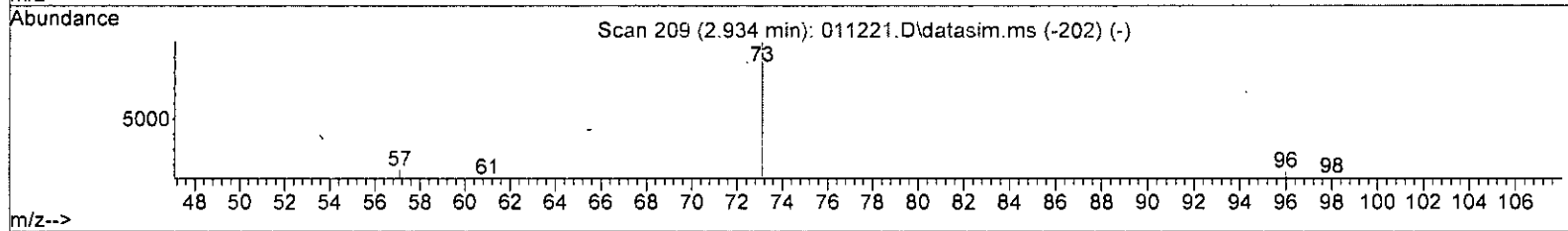
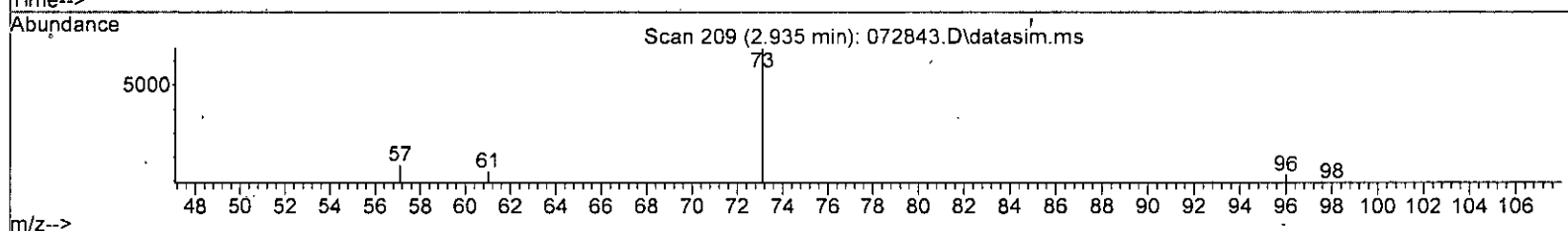
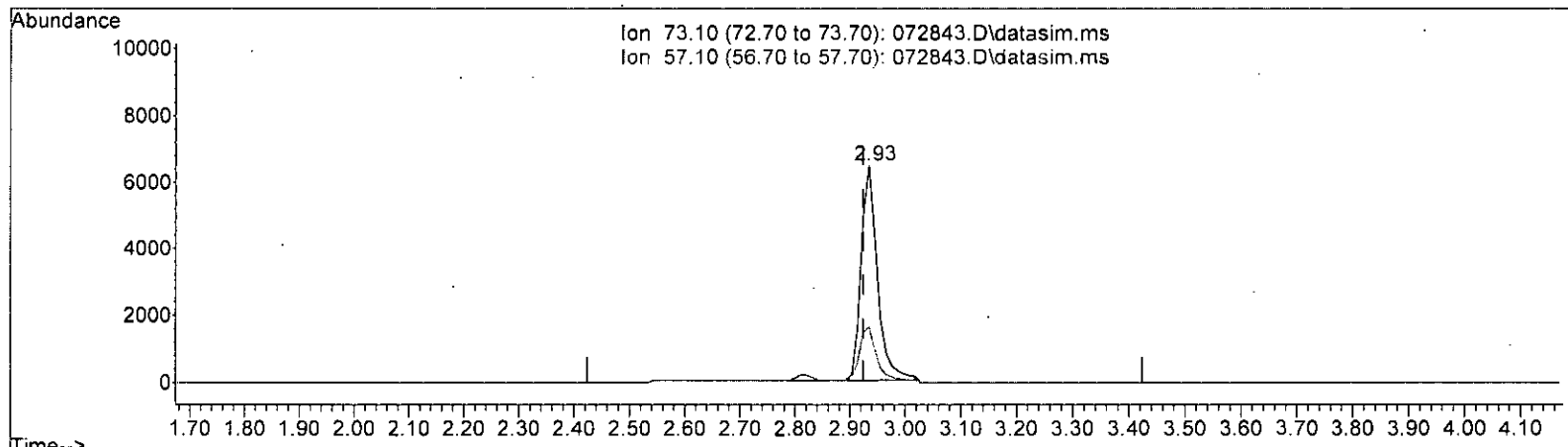
2.935min (+ 0.011) 2.136 ppb

response	13654
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 25.24
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms

*m 7/29*

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

2.935min (+ 0.011) 2.050 ppb m

response	13105
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 25.24
0.00	0.00 0.00
0.00	0.00 0.00



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	101892	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	77698	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36400	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	27545	9.963	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.60%	
30) 1,2-Dichloroethane-d4	4.45	102	6260	10.224	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.20%	
35) Toluene-d8	6.10	98	114079	10.077	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	100.80%	
57) 4-Bromofluorobenzene	8.50	95	33850	10.325	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	103.20%	
Target Compounds							
2) Ethanol	2.34	45	229	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	18921	2.049	ppb		94
5) Chloromethane	1.26	50	20268	2.096	ppb		99
6] Vinyl chloride	1.33	62	16598	2.119	ppb		96
7) Bromomethane	1.57	94	9142m	2.382	ppb		
8] Chloroethane	1.65	64	6878	2.093	ppb		90
9) Trichlorofluoromethane	1.85	101	26729	2.191	ppb		92
10) 2-Propanol	2.34	45	229	No Calib	#		
11) Acetone	2.33	58	4303	10.668	ppb		99
12] 1,1-Dichloroethene	2.27	96	6766	2.447	ppb		97
13) Hexane	3.16	57	8059	2.009	ppb		91
14) Methylene chloride	2.68	84	5884	2.371	ppb		98
15) t-Butyl alcohol (TBA)	2.82	59	3423	10.335	ppb		89
16] Methyl t-butyl ether (...)	2.93	73	13105m	2.050	ppb		
17] trans-1,2-Dichloroethene	2.92	96	5758m	2.205	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	20210	2.119	ppb		94
19] 1,1-Dichloroethane	3.27	63	10674	2.156	ppb		99
20) Ethyl t-butyl ether (E...)	3.65	87	5546	2.064	ppb		95
21) 2,2-Dichloropropane	3.76	77	6046	2.208	ppb		96
22] cis-1,2-Dichloroethene	3.77	96	6305	2.143	ppb		98
23) Chloroform	4.04	83	10693	2.311	ppb		89
24) 2-Butanone (MEK)	3.79	43	20065	10.225	ppb		98
25) t-Amyl methyl ether (T...)	4.61	73	13378	2.211	ppb		97
26] 1,2-Dichloroethane (EDC)	4.52	62	9144	2.341	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	8954	2.166	ppb		99
28) 1,1-Dichloropropene	4.32	75	7758	2.218	ppb		92
29) Carbon tetrachloride	4.32	117	7297	2.020	ppb		98
31] Benzene	4.50	78	22951	2.311	ppb		100
32] Trichloroethene	5.04	95	7005	2.297	ppb		96
33) 1,2-Dichloropropane	5.24	63	6193	2.257	ppb		100
34) Bromodichloromethane	5.48	83	7162	2.149	ppb		94
36) Dibromomethane	5.34	93	3822	2.162	ppb		93

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

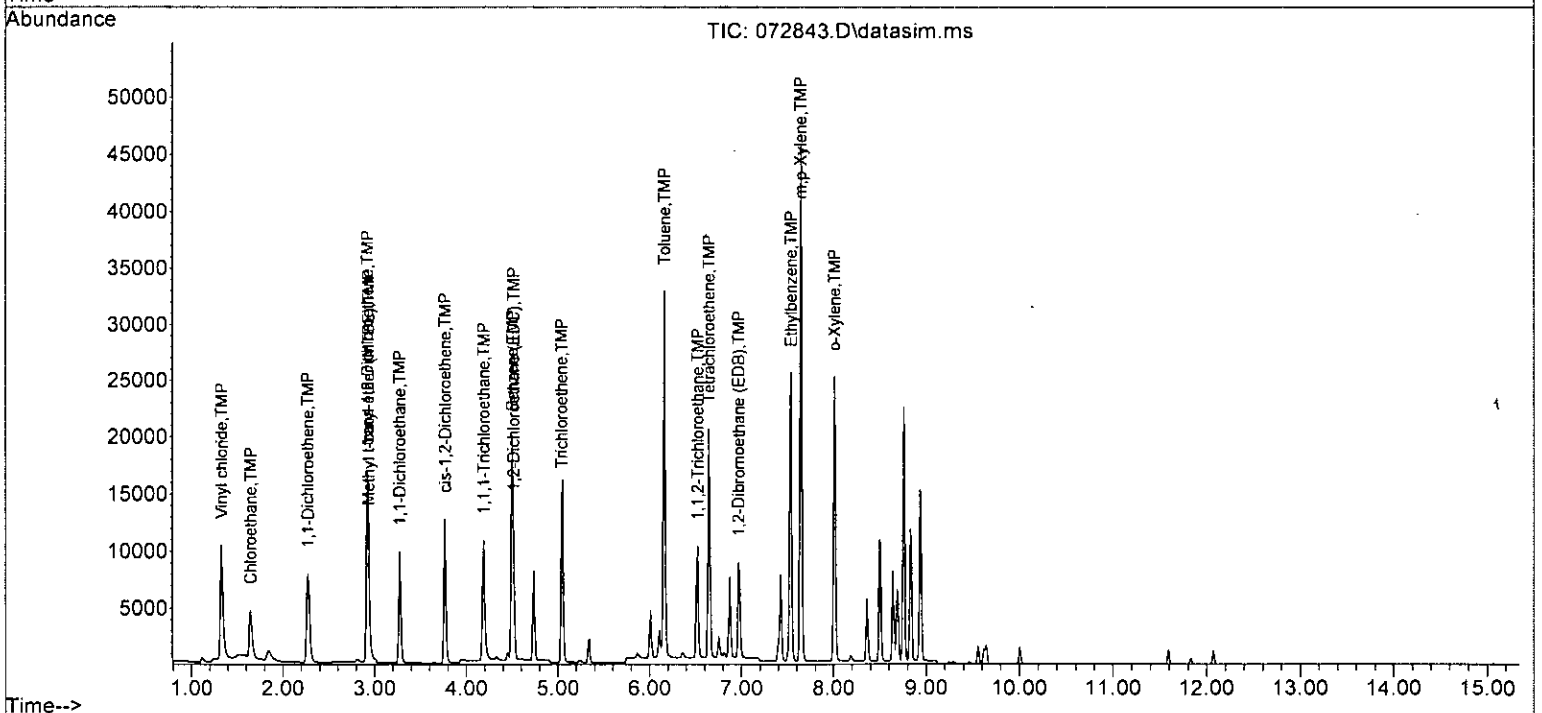
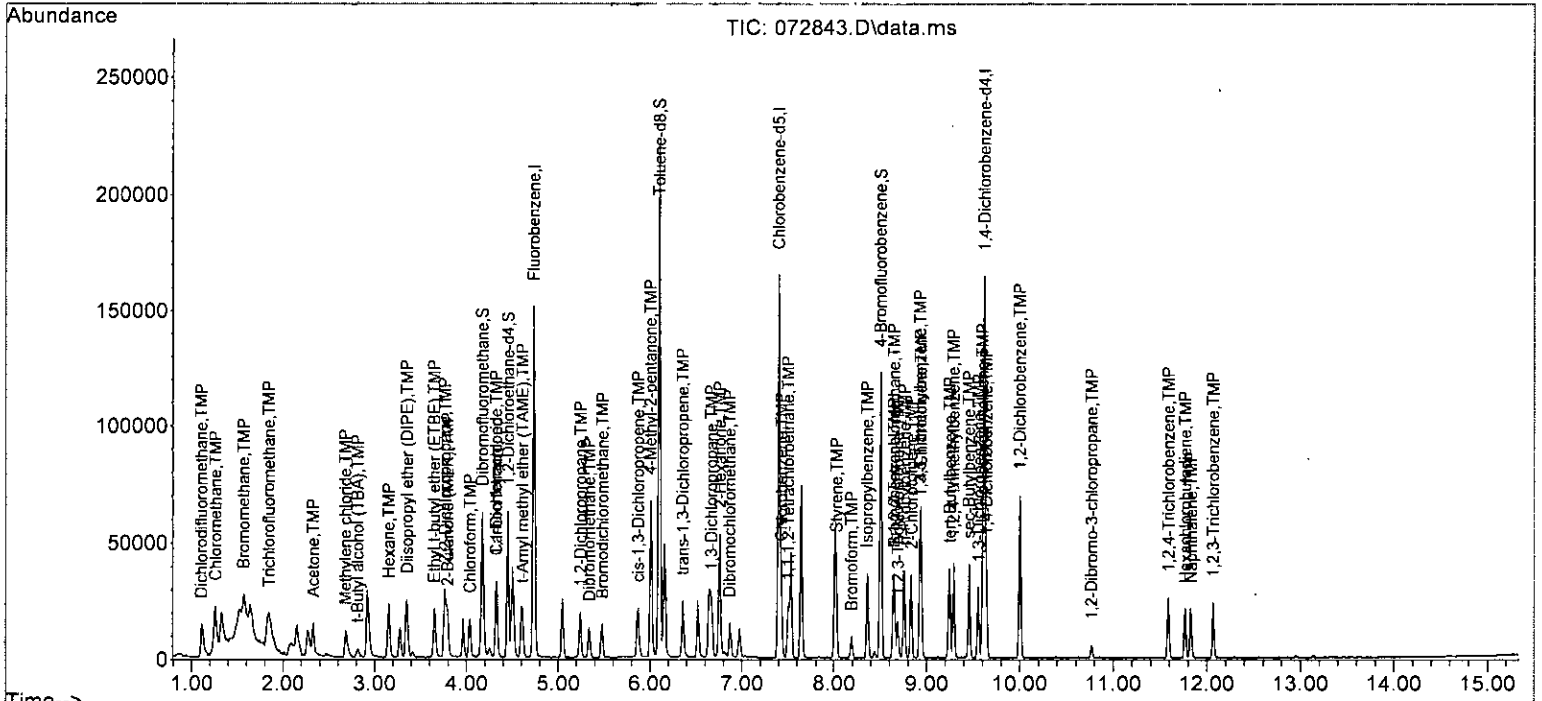
Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	5719	9.942	ppb	97
38) cis-1,3-Dichloropropene	5.87	75	9298	2.030	ppb	92
40] Toluene	6.16	92	17454	2.265	ppb	94
41) trans-1,3-Dichloropropene	6.36	75	8233	2.010	ppb	89
42] 1,1,2-Trichloroethane	6.52	83	5486	2.183	ppb #	72
43) 2-Hexanone	6.76	43	35746	10.206	ppb	98
44) 1,3-Dichloropropane	6.67	76	10395	2.340	ppb	92
45] Tetrachloroethene	6.64	164	7032	2.302	ppb	96
46) Dibromochloromethane	6.87	129	6555	1.942	ppb	100
47] 1,2-Dibromoethane (EDB)	6.97	107	7079	2.164	ppb	97
48) Chlorobenzene	7.43	112	16421	2.271	ppb	98
49] Ethylbenzene	7.54	91	26533	2.297	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	5085	1.989	ppb	86
51] m,p-Xylene	7.64	106	20631	4.564	ppb	97
52] o-Xylene	8.01	106	9983	2.245	ppb	100
53) Styrene	8.03	104	15104	2.145	ppb	96
54) Isopropylbenzene	8.36	105	21779	2.051	ppb	95
55) Bromoform	8.19	173	3565	1.921	ppb	93
58) n-Propylbenzene	8.76	91	27858	2.301	ppb	95
59) Bromobenzene	8.65	156	6649	2.243	ppb	90
60) 1,3,5-Trimethylbenzene	8.93	105	18652	2.217	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.65	83	5828	2.086	ppb	97
62) 1,2,3-Trichloropropane	8.69	75	4953	2.068	ppb	97
63) 2-Chlorotoluene	8.84	91	16092	2.270	ppb	97
64) 4-Chlorotoluene	8.94	91	18566	2.260	ppb	92
65) tert-Butylbenzene	9.25	119	16761	2.180	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	19110	2.148	ppb	94
67) sec-Butylbenzene	9.45	105	24787	2.191	ppb	100
68) p-Isopropyltoluene	9.60	119	20851	2.208	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	11296	2.150	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	11496	2.140	ppb	91
71) 1,2-Dichlorobenzene	10.00	146	11187	2.241	ppb	92
72) 1,2-Dibromo-3-chloropr...	10.77	75	1108	2.088	ppb	86
73) 1,2,4-Trichlorobenzene	11.59	180	6725	2.036	ppb	96
74) Hexachlorobutadiene	11.77	225	3668	2.063	ppb	93
75) Naphthalene	11.83	128	15822	2.034	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	6568	2.186	ppb	92

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
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Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.03
3 5	Dibromofluoromethane	10.000	9.963	0.4	100	0.01
4 TMP	Dichlorodifluoromethane	2.000	2.049	-2.4	100	0.00
5 TMP	Chloromethane	2.000	2.096	-4.8	100	0.01
6 TMP	Vinyl chloride	2.000	2.119	-6.0	100	0.01
7 TMP	Bromomethane	2.000	2.382	-19.1	94	0.00
8 TMP	Chloroethane	2.000	2.093	-4.6	100	0.01
9 TMP	Trichlorofluoromethane	2.000	2.191	-9.5	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.03
11 TMP	Acetone	10.000	10.668	-6.7	100	0.01
12 TMP	1,1-Dichloroethene	2.000	2.447	-22.4#	118	0.01
13 TMP	Hexane	2.000	2.009	-0.4	100	0.01
14 TMP	Methylene chloride	2.000	2.371	-18.6	100	0.00
15 TMP	t-Butyl alcohol (TBA)	10.000	10.335	-3.4	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	2.000	2.050	-2.5	99	0.01
17 TMP	trans-1,2-Dichloroethene	2.000	2.205	-10.3	100	0.01
18 TMP	Diisopropyl ether (DIPE)	2.000	2.119	-6.0	100	0.01
19 TMP	1,1-Dichloroethane	2.000	2.156	-7.8	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	2.000	2.064	-3.2	100	0.00
21 TMP	2,2-Dichloropropane	2.000	2.208	-10.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	2.000	2.143	-7.1	100	0.01
23 TMP	Chloroform	2.000	2.311	-15.5	100	0.01
24 TMP	2-Butanone (MEK)	10.000	10.225	-2.2	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	2.000	2.211	-10.5	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	2.000	2.341	-17.1	100	0.00
27 TMP	1,1,1-Trichloroethane	2.000	2.166	-8.3	100	0.00
28 TMP	1,1-Dichloropropene	2.000	2.218	-10.9	100	0.00
29 TMP	Carbon tetrachloride	2.000	2.020	-1.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.224	-2.2	100	0.00
31 TMP	Benzene	2.000	2.311	-15.5	100	0.01
32 TMP	Trichloroethene	2.000	2.297	-14.9	100	0.00
33 TMP	1,2-Dichloropropane	2.000	2.257	-12.9	100	0.01
34 TMP	Bromodichloromethane	2.000	2.149	-7.5	100	0.01
35 S	Toluene-d8	10.000	10.077	-0.8	100	0.00
36 TMP	Dibromomethane	2.000	2.162	-8.1	100	0.00
37 TMP	4-Methyl-2-pentanone	10.000	9.942	0.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	2.000	2.030	-1.5	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	2.000	2.265	-13.3	100	0.00
41 TMP	trans-1,3-Dichloropropene	2.000	2.010	-0.5	100	0.00
42 TMP	1,1,2-Trichloroethane	2.000	2.183	-9.1	100	0.01
43 TMP	2-Hexanone	10.000	10.206	-2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	2.000	2.340	-17.0	100	0.00
45	TMP Tetrachloroethene	2.000	2.302	-15.1	100	0.00
46	TMP Dibromochloromethane	2.000	1.942	2.9	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	2.000	2.164	-8.2	100	0.00
48	TMP Chlorobenzene	2.000	2.271	-13.5	100	0.00
49	TMP Ethylbenzene	2.000	2.297	-14.9	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	2.000	1.989	0.5	100	0.00
51	TMP m,p-Xylene	4.000	4.564	-14.1	100	0.00
52	TMP o-Xylene	2.000	2.245	-12.3	100	0.00
53	TMP Styrene	2.000	2.145	-7.3	100	0.00
54	TMP Isopropylbenzene	2.000	2.051	-2.6	100	0.00
55	TMP Bromoform	2.000	1.921	3.9	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	10.325	-3.2	100	0.00
58	TMP n-Propylbenzene	2.000	2.301	-15.1	100	0.00
59	TMP Bromobenzene	2.000	2.243	-12.1	100	0.00
60	TMP 1,3,5-Trimethylbenzene	2.000	2.217	-10.9	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	2.000	2.086	-4.3	100	0.00
62	TMP 1,2,3-Trichloropropane	2.000	2.068	-3.4	100	0.00
63	TMP 2-Chlorotoluene	2.000	2.270	-13.5	100	0.00
64	TMP 4-Chlorotoluene	2.000	2.260	-13.0	100	0.00
65	TMP tert-Butylbenzene	2.000	2.180	-9.0	100	0.00
66	TMP 1,2,4-Trimethylbenzene	2.000	2.148	-7.4	100	0.00
67	TMP sec-Butylbenzene	2.000	2.191	-9.5	100	0.00
68	TMP p-Isopropyltoluene	2.000	2.208	-10.4	100	0.00
69	TMP 1,3-Dichlorobenzene	2.000	2.150	-7.5	100	0.00
70	TMP 1,4-Dichlorobenzene	2.000	2.140	-7.0	100	0.00
71	TMP 1,2-Dichlorobenzene	2.000	2.241	-12.1	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	2.000	2.088	-4.4	100	0.00
73	TMP 1,2,4-Trichlorobenzene	2.000	2.036	-1.8	100	0.00
74	TMP Hexachlorobutadiene	2.000	2.063	-3.2	100	0.00
75	TMP Naphthalene	2.000	2.034	-1.7	100	0.00
76	TMP 1,2,3-Trichlorobenzene	2.000	2.186	-9.3	100	0.00

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
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Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	#	0.03
3 S	Dibromofluoromethane	0.271	0.270	0.4	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.928	-2.4	100	0.00
5 TMP	Chloromethane	0.949	0.995	-4.8	100	0.01
6 TMP	Vinyl chloride	0.769	0.814	-5.9	100	0.01
7 TMP	Bromomethane	0.377	0.449	-19.1	94	0.00
8 TMP	Chloroethane	0.323	0.338	-4.6	100	0.01
9 TMP	Trichlorofluoromethane	1.197	1.312	-9.6	100	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	#	0.03
11 TMP	Acetone	0.040	0.042	-5.0	100	0.01
12 TMP	1,1-Dichloroethene	0.288	0.332	-15.3	118	0.01
13 TMP	Hexane	0.394	0.395	-0.3	100	0.01
14 TMP	Methylene chloride	0.244	0.289	-18.4	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.033	0.034	-3.0	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.643	-2.6	99	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.283	-0.4	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.992	-6.0	100	0.01
19 TMP	1,1-Dichloroethane	0.486	0.524	-7.8	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.272	-3.0	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.297	-10.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.309	-6.9	100	0.01
23 TMP	Chloroform	0.454	0.525	-15.6	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.197	-2.1	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.656	-10.4	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.449	2.8	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.439	-8.1	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.381	-11.1	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.358	-1.1	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	1.042	1.126	-8.1	100	0.01
32 TMP	Trichloroethene	0.326	0.344	-5.5	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.304	-13.0	100	0.01
34 TMP	Bromodichloromethane	0.327	0.351	-7.3	100	0.01
35 S	Toluene-d8	1.111	1.120	-0.8	100	0.00
36 TMP	Dibromomethane	0.174	0.188	-8.0	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.056	0.0	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.456	-1.6	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.123	-2.8	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.530	-0.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.353	-9.3	100	0.01
43 TMP	2-Hexanone	0.451	0.460	-2.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.669	-17.0	100	0.00
45 TMP Tetrachloroethene	0.446	0.453	-1.6	100	0.00
46 TMP Dibromochloromethane	0.434	0.422	2.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.456	2.8	100	0.00
48 TMP Chlorobenzene	0.931	1.057	-13.5	100	0.00
49 TMP Ethylbenzene	1.609	1.707	-6.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.327	0.6	100	0.00
51 TMP m,p-Xylene	0.630	0.664	-5.4	100	0.00
52 TMP o-Xylene	0.606	0.642	-5.9	100	0.00
53 TMP Styrene	0.906	0.972	-7.3	100	0.00
54 TMP Isopropylbenzene	1.367	1.402	-2.6	100	0.00
55 TMP Bromoform	0.239	0.229	4.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.930	-3.2	100	0.00
58 TMP n-Propylbenzene	3.326	3.827	-15.1	100	0.00
59 TMP Bromobenzene	0.814	0.913	-12.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.562	-10.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.801	-4.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.680	-3.3	100	0.00
63 TMP 2-Chlorotoluene	1.947	2.210	-13.5	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.550	-13.0	100	0.00
65 TMP tert-Butylbenzene	2.112	2.302	-9.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.625	-7.4	100	0.00
67 TMP sec-Butylbenzene	3.109	3.405	-9.5	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.864	-10.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.552	-7.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.579	-7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.537	-12.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.152	-4.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.924	-1.8	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.504	-3.1	100	0.00
75 TMP Naphthalene	2.138	2.173	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.902	-9.2	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	100020	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	74975	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37029	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	27492	10.130	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%
30) 1,2-Dichloroethane-d4	4.45	102	6179	10.281	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.80%
35) Toluene-d8	6.10	98	111742	10.055	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	100.60%
57) 4-Bromofluorobenzene	8.50	95	33195	9.953	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	99.50%
Target Compounds						
2) Ethanol	2.33	45	499	No Calib		
4) Dichlorodifluoromethane	1.11	85	46045	5.081	ppb	98
5) Chloromethane	1.25	50	44543	4.693	ppb	97
6] Vinyl chloride	1.33	62	36473	4.744	ppb	92
7) Bromomethane	1.57	94	19833	5.263	ppb	82
8] Chloroethane	1.64	64	14496	4.493	ppb	100
9) Trichlorofluoromethane	1.85	101	58512	4.886	ppb	98
10) 2-Propanol	2.33	45	499	No Calib	#	
11) Acetone	2.32	58	9031	22.809	ppb	97
12] 1,1-Dichloroethene	2.26	96	13479	4.977	ppb	89
13) Hexane	3.16	57	18948	4.811	ppb	98
14) Methylene chloride	2.68	84	11322	4.647	ppb	92
15) t-Butyl alcohol (TBA)	2.82	59	7622	23.445	ppb	97
16] Methyl t-butyl ether (...)	2.93	73	30213	4.815	ppb	93
17] trans-1,2-Dichloroethene	2.91	96	12842	5.031	ppb	94
18) Diisopropyl ether (DIPE)	3.34	45	45903	4.903	ppb	97
19] 1,1-Dichloroethane	3.27	63	22820	4.695	ppb	99
20) Ethyl t-butyl ether (E...)	3.65	87	12644	4.793	ppb	94
21) 2,2-Dichloropropane	3.76	77	12910	4.804	ppb	91
22] cis-1,2-Dichloroethene	3.77	96	13536	4.687	ppb	96
23) Chloroform	4.04	83	21575	4.750	ppb	99
24) 2-Butanone (MEK)	3.78	43	49858	25.882	ppb	98
25) t-Amyl methyl ether (T...)	4.60	73	29104	4.900	ppb	98
26] 1,2-Dichloroethane (EDC)	4.52	62	19440	5.108	ppb	98
27] 1,1,1-Trichloroethane	4.19	97	19485	4.801	ppb	99
28) 1,1-Dichloropropene	4.32	75	17199	5.009	ppb	94
29) Carbon tetrachloride	4.32	117	16265	4.588	ppb	94
31] Benzene	4.49	78	48807	5.020	ppb	89
32] Trichloroethene	5.04	95	15087	5.057	ppb	99
33) 1,2-Dichloropropane	5.23	63	12631	4.689	ppb	100
34) Bromodichloromethane	5.48	83	16042	4.904	ppb	92
36) Dibromomethane	5.34	93	8508	4.902	ppb	90



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

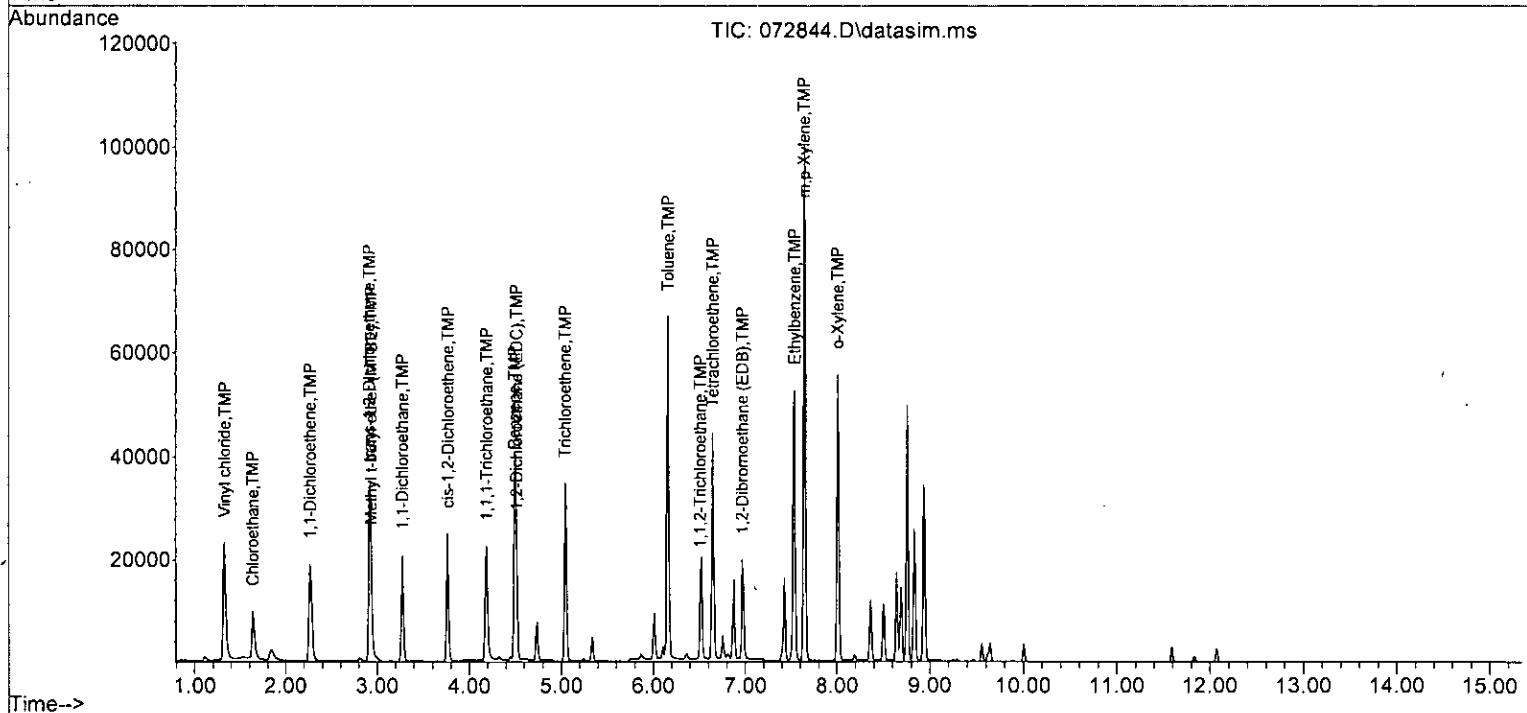
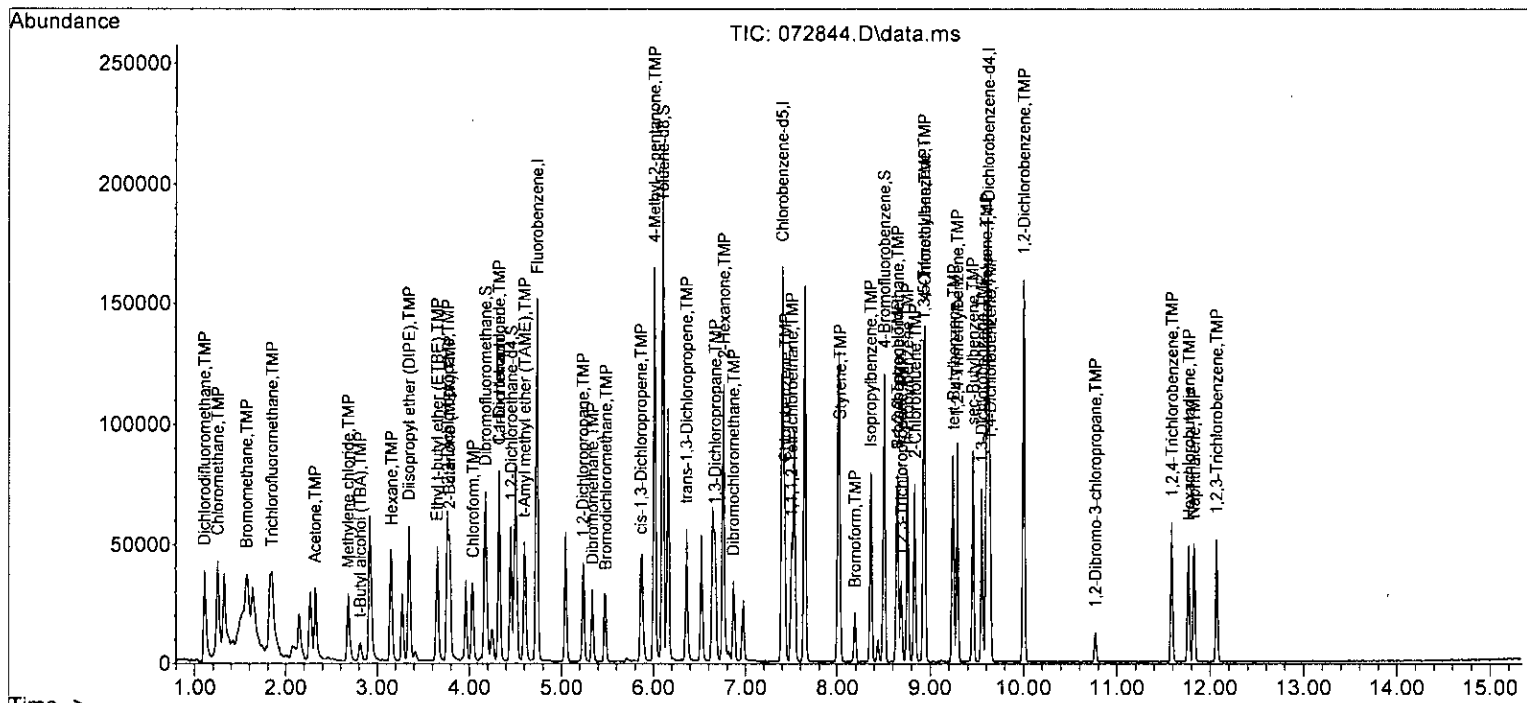
Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QI	on	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85		13259	23.482	ppb	98
38) cis-1,3-Dichloropropene	5.86	75		20442	4.547	ppb	99
40] Toluene	6.16	92		37405	5.051	ppb	97
41) trans-1,3-Dichloropropene	6.36	75		19330	4.889	ppb	99
42] 1,1,2-Trichloroethane	6.51	83		11896	4.905	ppb	94
43) 2-Hexanone	6.76	43		81806	24.204	ppb	95
44) 1,3-Dichloropropane	6.67	76		21148	4.933	ppb	96
45] Tetrachloroethene	6.65	164		14789	5.043	ppb	96
46) Dibromochloromethane	6.87	129		15726	4.828	ppb	95
47] 1,2-Dibromoethane (EDB)	6.97	107		15484	4.916	ppb	97
48) Chlorobenzene	7.43	112		33393	4.785	ppb	99
49] Ethylbenzene	7.54	91		56901	5.120	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131		11667	4.728	ppb	97
51] m,p-Xylene	7.64	106		44782	10.300	ppb	100
52] o-Xylene	8.01	106		21468	5.014	ppb	99
53) Styrene	8.03	104		33237	4.891	ppb	99
54) Isopropylbenzene	8.36	105		49208	4.802	ppb	97
55) Bromoform	8.19	173		8226	4.592	ppb	97
58) n-Propylbenzene	8.75	91		58876	4.781	ppb	98
59) Bromobenzene	8.65	156		13990	4.639	ppb	95
60) 1,3,5-Trimethylbenzene	8.93	105		41374	4.835	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83		13440	4.729	ppb	95
62) 1,2,3-Trichloropropane	8.69	75		10575	4.341	ppb	96
63) 2-Chlorotoluene	8.84	91		34233	4.747	ppb	100
64) 4-Chlorotoluene	8.94	91		41825	5.004	ppb	99
65) tert-Butylbenzene	9.25	119		38285	4.894	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105		43174	4.771	ppb	97
67) sec-Butylbenzene	9.45	105		54945	4.773	ppb	99
68) p-Isopropyltoluene	9.60	119		45983	4.786	ppb	98
69) 1,3-Dichlorobenzene	9.55	146		25867	4.840	ppb	97
70) 1,4-Dichlorobenzene	9.64	146		26364	4.825	ppb	98
71) 1,2-Dichlorobenzene	10.00	146		24359	4.797	ppb	96
72) 1,2-Dibromo-3-chloropr...	10.77	75		2367	4.385	ppb	89
73) 1,2,4-Trichlorobenzene	11.59	180		15456	4.599	ppb	99
74) Hexachlorobutadiene	11.77	225		8800	4.864	ppb	97
75) Naphthalene	11.82	128		35913	4.537	ppb	97
76) 1,2,3-Trichlorobenzene	12.07	180		14062	4.600	ppb	97

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	10.130	-1.3	100	0.01
4 TMP	Dichlorodifluoromethane	5.000	5.081	-1.6	100	0.00
5 TMP	Chloromethane	5.000	4.693	6.1	100	0.00
6 TMP	Vinyl chloride	5.000	4.744	5.1	100	0.01
7 TMP	Bromomethane	5.000	5.263	-5.3	100	0.00
8 TMP	Chloroethane	5.000	4.493	10.1	100	0.00
9 TMP	Trichlorofluoromethane	5.000	4.886	2.3	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	25.000	22.809	8.8	100	0.00
12 TMP	1,1-Dichloroethene	5.000	4.977	0.5	100	0.00
13 TMP	Hexane	5.000	4.811	3.8	100	0.01
14 TMP	Methylene chloride	5.000	4.647	7.1	100	0.00
15 TMP	t-Butyl alcohol (TBA)	25.000	23.445	6.2	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	5.000	4.815	3.7	100	0.01
17 TMP	trans-1,2-Dichloroethene	5.000	5.031	-0.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	5.000	4.903	1.9	100	0.00
19 TMP	1,1-Dichloroethane	5.000	4.695	6.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	5.000	4.793	4.1	100	0.00
21 TMP	2,2-Dichloropropane	5.000	4.804	3.9	100	0.00
22 TMP	cis-1,2-Dichloroethene	5.000	4.687	6.3	100	0.01
23 TMP	Chloroform	5.000	4.750	5.0	100	0.01
24 TMP	2-Butanone (MEK)	25.000	25.882	-3.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	5.000	4.900	2.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	5.000	5.108	-2.2	100	0.00
27 TMP	1,1,1-Trichloroethane	5.000	4.801	4.0	100	0.00
28 TMP	1,1-Dichloropropene	5.000	5.009	-0.2	100	0.00
29 TMP	Carbon tetrachloride	5.000	4.588	8.2	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.281	-2.8	100	0.00
31 TMP	Benzene	5.000	5.020	-0.4	100	0.00
32 TMP	Trichloroethene	5.000	5.057	-1.1	100	0.00
33 TMP	1,2-Dichloropropane	5.000	4.689	6.2	100	0.00
34 TMP	Bromodichloromethane	5.000	4.904	1.9	100	0.01
35 S	Toluene-d8	10.000	10.055	-0.5	100	0.00
36 TMP	Dibromomethane	5.000	4.902	2.0	100	0.00
37 TMP	4-Methyl-2-pentanone	25.000	23.482	6.1	100	0.00
38 TMP	cis-1,3-Dichloropropene	5.000	4.547	9.1	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	5.000	5.051	-1.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	5.000	4.889	2.2	100	0.00
42 TMP	1,1,2-Trichloroethane	5.000	4.905	1.9	100	0.00
43 TMP	2-Hexanone	25.000	24.204	3.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.933	1.3	100	0.00
45 TMP Tetrachloroethene	5.000	5.043	-0.9	100	0.00
46 TMP Dibromochloromethane	5.000	4.828	3.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	4.916	1.7	100	0.00
48 TMP Chlorobenzene	5.000	4.785	4.3	100	0.00
49 TMP Ethylbenzene	5.000	5.120	-2.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.728	5.4	100	0.00
51 TMP m,p-Xylene	10.000	10.300	-3.0	100	0.00
52 TMP o-Xylene	5.000	5.014	-0.3	100	0.00
53 TMP Styrene	5.000	4.891	2.2	100	0.00
54 TMP Isopropylbenzene	5.000	4.802	4.0	100	0.00
55 TMP Bromoform	5.000	4.592	8.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.953	0.5	100	0.00
58 TMP n-Propylbenzene	5.000	4.781	4.4	100	-0.01
59 TMP Bromobenzene	5.000	4.639	7.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.835	3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	4.729	5.4	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.341	13.2	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.747	5.1	100	0.00
64 TMP 4-Chlorotoluene	5.000	5.004	-0.1	100	0.00
65 TMP tert-Butylbenzene	5.000	4.894	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.771	4.6	100	0.00
67 TMP sec-Butylbenzene	5.000	4.773	4.5	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.786	4.3	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.840	3.2	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.825	3.5	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.797	4.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	4.385	12.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.599	8.0	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.864	2.7	100	0.00
75 TMP Naphthalene	5.000	4.537	9.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.600	8.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	0.02
3 S Dibromofluoromethane	0.271	0.275	-1.5	100	0.01
4 TMP Dichlorodifluoromethane	0.906	0.921	-1.7	100	0.00
5 TMP Chloromethane	0.949	0.891	6.1	100	0.00
6 TMP Vinyl chloride	0.769	0.729	5.2	100	0.01
7 TMP Bromomethane	0.377	0.397	-5.3	100	0.00
8 TMP Chloroethane	0.323	0.290	10.2	100	0.00
9 TMP Trichlorofluoromethane	1.197	1.170	2.3	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.02
11 TMP Acetone	0.040	0.036	10.0	100	0.00
12 TMP 1,1-Dichloroethene	0.288	0.270	6.2	100	0.00
13 TMP Hexane	0.394	0.379	3.8	100	0.01
14 TMP Methylene chloride	0.244	0.226	7.4	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.030	9.1	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.604	3.7	100	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.257	8.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	0.918	1.9	100	0.00
19 TMP 1,1-Dichloroethane	0.486	0.456	6.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.253	4.2	100	0.00
21 TMP 2,2-Dichloropropane	0.269	0.258	4.1	100	0.00
22 TMP cis-1,2-Dichloroethene	0.289	0.271	6.2	100	0.01
23 TMP Chloroform	0.454	0.431	5.1	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.199	-3.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.594	0.582	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.389	15.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.390	3.9	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.344	-0.3	100	0.00
29 TMP Carbon tetrachloride	0.354	0.325	8.2	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	1.042	0.976	6.3	100	0.00
32 TMP Trichloroethene	0.326	0.302	7.4	100	0.00
33 TMP 1,2-Dichloropropane	0.269	0.253	5.9	100	0.00
34 TMP Bromodichloromethane	0.327	0.321	1.8	100	0.01
35 S Toluene-d8	1.111	1.117	-0.5	100	0.00
36 TMP Dibromomethane	0.174	0.170	2.3	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.053	5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.409	8.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	0.998	8.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.516	2.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.317	1.9	100	0.00
43 TMP 2-Hexanone	0.451	0.436	3.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.564	1.4	100	0.00
45 TMP Tetrachloroethene	0.446	0.395	11.4	100	0.00
46 TMP Dibromochloromethane	0.434	0.419	3.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.413	11.9	100	0.00
48 TMP Chlorobenzene	0.931	0.891	4.3	100	0.00
49 TMP Ethylbenzene	1.609	1.518	5.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.311	5.5	100	0.00
51 TMP m,p-Xylene	0.630	0.597	5.2	100	0.00
52 TMP o-Xylene	0.606	0.573	5.4	100	0.00
53 TMP Styrene	0.906	0.887	2.1	100	0.00
54 TMP Isopropylbenzene	1.367	1.313	4.0	100	0.00
55 TMP Bromoform	0.239	0.219	8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.896	0.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.180	4.4	100	-0.01
59 TMP Bromobenzene	0.814	0.756	7.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.235	3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.726	5.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.571	13.2	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.849	5.0	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.259	-0.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.068	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.332	4.6	100	0.00
67 TMP sec-Butylbenzene	3.109	2.968	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.484	4.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.397	3.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.424	3.5	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.316	4.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.128	12.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.835	8.0	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.475	2.9	100	0.00
75 TMP Naphthalene	2.138	1.940	9.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.760	8.0	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	95959	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	72838	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36121	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.16	113	26865	10.318	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	103.20%	
30) 1,2-Dichloroethane-d4	4.45	102	6089	10.560	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	105.60%	
35) Toluene-d8	6.10	98	108338	10.162	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	101.60%	
57) 4-Bromofluorobenzene	8.50	95	31951	9.821	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.20%	
<b>Target Compounds</b>							
2) Ethanol	2.31	45	389	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	87868	10.105	ppb	96	
5) Chloromethane	1.25	50	88003	9.663	ppb	95	
6] Vinyl chloride	1.32	62	70834	9.603	ppb	100	
7) Bromomethane	1.57	94	35849	9.917	ppb	88	
8] Chloroethane	1.64	64	28661	9.259	ppb	98	
9) Trichlorofluoromethane	1.84	101	116514	10.141	ppb	98	
10) 2-Propanol	2.31	45	389	No Calib			
11) Acetone	2.32	58	17669	46.514	ppb	94	
12] 1,1-Dichloroethene	2.26	96	26761	10.310	ppb	96	
13) Hexane	3.15	57	38394	10.161	ppb	95	
14) Methylene chloride	2.68	84	23668	10.126	ppb	98	
15) t-Butyl alcohol (TBA)	2.81	59	14845	47.594	ppb	100	
16] Methyl t-butyl ether (...)	2.92	73	59741	9.925	ppb	97	
17] trans-1,2-Dichloroethene	2.91	96	25626	10.482	ppb	88	
18) Diisopropyl ether (DIPE)	3.34	45	89610	9.976	ppb	97	
19] 1,1-Dichloroethane	3.27	63	46573	9.988	ppb	97	
20) Ethyl t-butyl ether (E...)	3.65	87	25652	10.136	ppb	91	
21) 2,2-Dichloropropane	3.76	77	24858	9.641	ppb	96	
22] cis-1,2-Dichloroethene	3.76	96	27461	9.910	ppb	89	
23) Chloroform	4.03	83	43672	10.022	ppb	92	
24) 2-Butanone (MEK)	3.78	43	87779	47.496	ppb	97	
25) t-Amyl methyl ether (T...)	4.60	73	57687	10.124	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.52	62	38895	10.689	ppb	98	
27] 1,1,1-Trichloroethane	4.19	97	39241	10.079	ppb	98	
28) 1,1-Dichloropropene	4.32	75	33670	10.221	ppb	96	
29) Carbon tetrachloride	4.32	117	34198	10.054	ppb	100	
31] Benzene	4.49	78	98240	10.543	ppb	90	
32] Trichloroethene	5.04	95	29897	10.460	ppb	97	
33) 1,2-Dichloropropane	5.23	63	25530	9.878	ppb	100	
34) Bromodichloromethane	5.47	83	31515	10.042	ppb	95	
36) Dibromomethane	5.34	93	16688	10.022	ppb	94	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

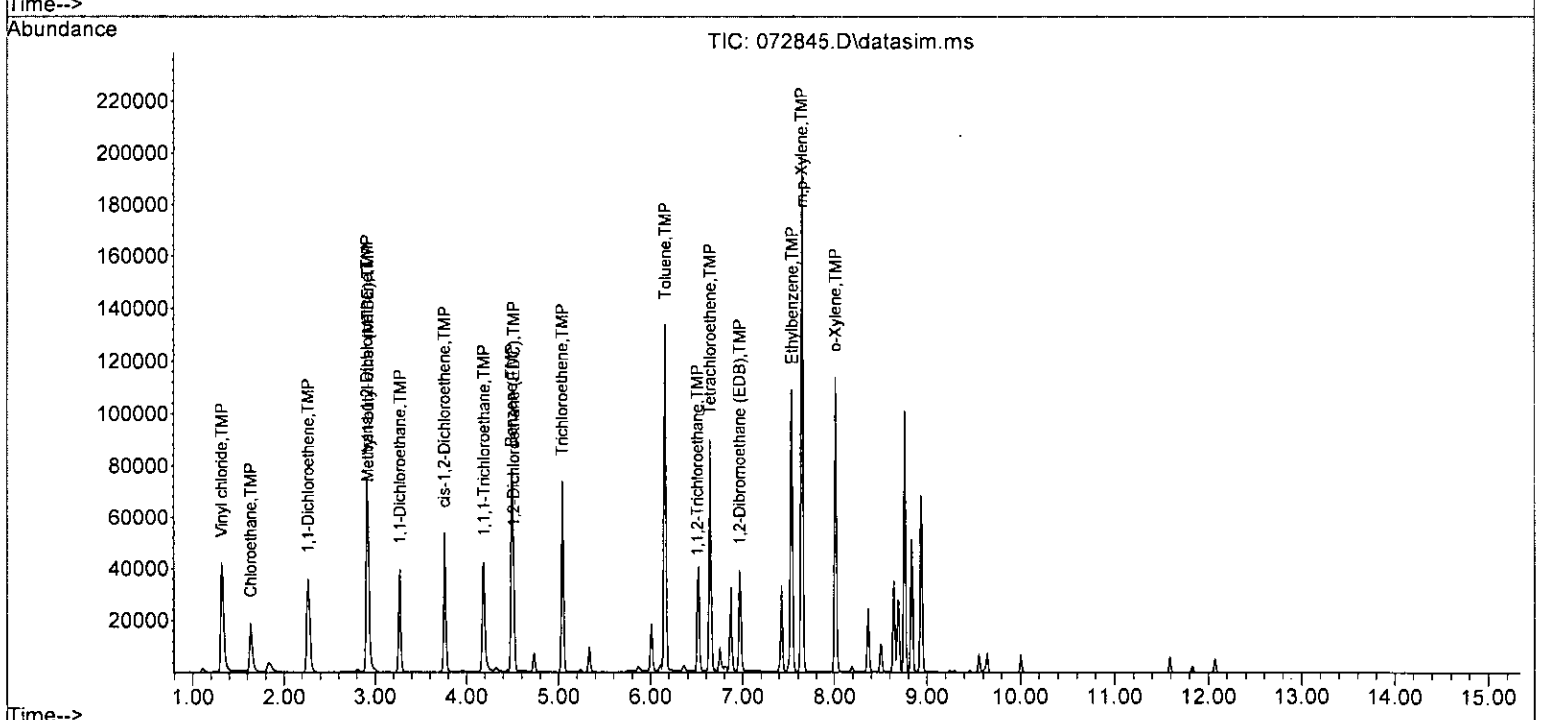
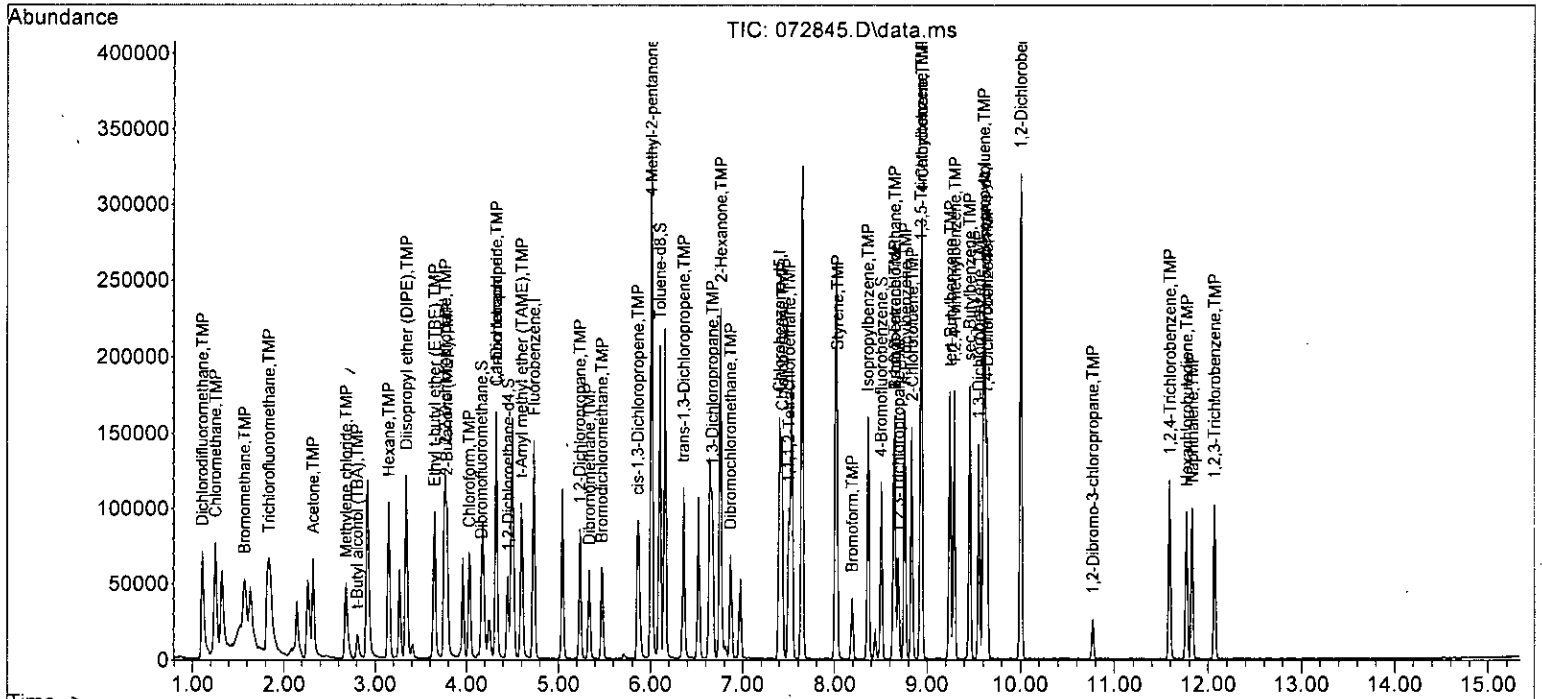
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	27772	51.265	ppb	96
38) cis-1,3-Dichloropropene	5.86	75	43195	10.016	ppb	99
40] Toluene	6.16	92	75998	10.582	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	38392	9.996	ppb	96
42] 1,1,2-Trichloroethane	6.51	83	23918	10.152	ppb	95
43) 2-Hexanone	6.76	43	164945	50.235	ppb	97
44) 1,3-Dichloropropane	6.67	76	41461	9.956	ppb	92
45] Tetrachloroethene	6.64	164	30113	10.594	ppb	97
46) Dibromochloromethane	6.87	129	30885	9.760	ppb	97
47] 1,2-Dibromoethane (EDB)	6.97	107	31261	10.226	ppb	97
48) Chlorobenzene	7.43	112	68689	10.133	ppb	98
49] Ethylbenzene	7.54	91	115511	10.714	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	23851	9.950	ppb	96
51] m,p-Xylene	7.64	106	90607	21.480	ppb	99
52] o-Xylene	8.01	106	43491	10.466	ppb	99
53) Styrene	8.03	104	66668	10.098	ppb	97
54) Isopropylbenzene	8.36	105	99972	10.042	ppb	99
55) Bromoform	8.19	173	16317	9.377	ppb	99
58) n-Propylbenzene	8.76	91	122078	10.163	ppb	99
59) Bromobenzene	8.65	156	29256	9.945	ppb	99
60) 1,3,5-Trimethylbenzene	8.93	105	86108	10.316	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	26921	9.710	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	21625	9.101	ppb	96
63) 2-Chlorotoluene	8.84	91	72041	10.241	ppb	98
64) 4-Chlorotoluene	8.94	91	82698	10.143	ppb	99
65) tert-Butylbenzene	9.25	119	76610	10.040	ppb	100
66) 1,2,4-Trimethylbenzene	9.29	105	88293	10.002	ppb	97
67) sec-Butylbenzene	9.45	105	112495	10.019	ppb	100
68) p-Isopropyltoluene	9.61	119	94848	10.120	ppb	98
69) 1,3-Dichlorobenzene	9.55	146	52120	9.998	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	52026	9.762	ppb	96
71) 1,2-Dichlorobenzene	10.00	146	49422	9.978	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	4659	8.848	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	31559	9.626	ppb	99
74) Hexachlorobutadiene	11.77	225	17846	10.112	ppb	97
75) Naphthalene	11.83	128	72467	9.386	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	28903	9.692	ppb	99

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



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 S Dibromofluoromethane	10.000	10.318	-3.2	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.105	-1.1	100	0.00
5 TMP Chloromethane	10.000	9.663	3.4	100	0.00
6 TMP Vinyl chloride	10.000	9.603	4.0	100	0.00
7 TMP Bromomethane	10.000	9.917	0.8	100	0.00
8 TMP Chloroethane	10.000	9.259	7.4	100	0.00
9 TMP Trichlorofluoromethane	10.000	10.141	-1.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	46.514	7.0	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.310	-3.1	100	0.00
13 TMP Hexane	10.000	10.161	-1.6	100	0.00
14 TMP Methylene chloride	10.000	10.126	-1.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	47.594	4.8	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	9.925	0.7	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.482	-4.8	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.976	0.2	100	0.00
19 TMP 1,1-Dichloroethane	10.000	9.988	0.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.136	-1.4	100	0.00
21 TMP 2,2-Dichloropropane	10.000	9.641	3.6	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.910	0.9	100	0.00
23 TMP Chloroform	10.000	10.022	-0.2	100	0.00
24 TMP 2-Butanone (MEK)	50.000	47.496	5.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.124	-1.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.689	-6.9	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.079	-0.8	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.221	-2.2	100	0.00
29 TMP Carbon tetrachloride	10.000	10.054	-0.5	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.560	-5.6	100	0.00
31 TMP Benzene	10.000	10.543	-5.4	100	0.00
32 TMP Trichloroethene	10.000	10.460	-4.6	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.878	1.2	100	0.00
34 TMP Bromodichloromethane	10.000	10.042	-0.4	100	0.00
35 S Toluene-d8	10.000	10.162	-1.6	100	0.00
36 TMP Dibromomethane	10.000	10.022	-0.2	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	51.265	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	10.016	-0.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.582	-5.8	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.996	0.0	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.152	-1.5	100	0.00
43 TMP 2-Hexanone	50.000	50.235	-0.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.956	0.4	100	0.00
45 TMP Tetrachloroethene	10.000	10.594	-5.9	100	0.00
46 TMP Dibromochloromethane	10.000	9.760	2.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.226	-2.3	100	0.00
48 TMP Chlorobenzene	10.000	10.133	-1.3	100	0.00
49 TMP Ethylbenzene	10.000	10.714	-7.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.950	0.5	100	0.00
51 TMP m,p-Xylene	20.000	21.480	-7.4	100	0.00
52 TMP o-Xylene	10.000	10.466	-4.7	100	0.00
53 TMP Styrene	10.000	10.098	-1.0	100	0.00
54 TMP Isopropylbenzene	10.000	10.042	-0.4	100	0.00
55 TMP Bromoform	10.000	9.377	6.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.821	1.8	100	0.00
58 TMP n-Propylbenzene	10.000	10.163	-1.6	100	0.00
59 TMP Bromobenzene	10.000	9.945	0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.316	-3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.710	2.9	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.101	9.0	100	0.00
63 TMP 2-Chlorotoluene	10.000	10.241	-2.4	100	0.00
64 TMP 4-Chlorotoluene	10.000	10.143	-1.4	100	0.00
65 TMP tert-Butylbenzene	10.000	10.040	-0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.002	-0.0	100	0.00
67 TMP sec-Butylbenzene	10.000	10.019	-0.2	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.120	-1.2	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.998	0.0	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.762	2.4	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.978	0.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	8.848	11.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.626	3.7	100	0.00
74 TMP Hexachlorobutadiene	10.000	10.112	-1.1	100	0.00
75 TMP Naphthalene	10.000	9.386	6.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.692	3.1	100	0.00

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.00
3 S	Dibromofluoromethane	0.271	0.280	-3.3	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.916	-1.1	100	0.00
5 TMP	Chloromethane	0.949	0.917	3.4	100	0.00
6 TMP	Vinyl chloride	0.769	0.738	4.0	100	0.00
7 TMP	Bromomethane	0.377	0.374	0.8	100	0.00
8 TMP	Chloroethane	0.323	0.299	7.4	100	0.00
9 TMP	Trichlorofluoromethane	1.197	1.214	-1.4	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.040	0.037	7.5	100	0.00
12 TMP	1,1-Dichloroethene	0.288	0.279	3.1	100	0.00
13 TMP	Hexane	0.394	0.400	-1.5	100	0.00
14 TMP	Methylene chloride	0.244	0.247	-1.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.033	0.031	6.1	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.623	0.6	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.282	0.267	5.3	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.934	0.2	100	0.00
19 TMP	1,1-Dichloroethane	0.486	0.485	0.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.267	-1.1	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.259	3.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.286	1.0	100	0.00
23 TMP	Chloroform	0.454	0.455	-0.2	100	0.00
24 TMP	2-Butanone (MEK)	0.193	0.183	5.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.601	-1.2	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.405	12.3	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.409	-0.7	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.351	-2.3	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.356	-0.6	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP	Benzene	1.042	1.024	1.7	100	0.00
32 TMP	Trichloroethene	0.326	0.312	4.3	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.266	1.1	100	0.00
34 TMP	Bromodichloromethane	0.327	0.328	-0.3	100	0.00
35 S	Toluene-d8	1.111	1.129	-1.6	100	0.00
36 TMP	Dibromomethane	0.174	0.174	0.0	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.058	-3.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.450	-0.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.043	4.5	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.527	0.0	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.328	-1.5	100	0.00
43 TMP	2-Hexanone	0.451	0.453	-0.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.569	0.5	100	0.00
45 TMP Tetrachloroethene	0.446	0.413	7.4	100	0.00
46 TMP Dibromochloromethane	0.434	0.424	2.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.429	8.5	100	0.00
48 TMP Chlorobenzene	0.931	0.943	-1.3	100	0.00
49 TMP Ethylbenzene	1.609	1.586	1.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.327	0.6	100	0.00
51 TMP m,p-Xylene	0.630	0.622	1.3	100	0.00
52 TMP o-Xylene	0.606	0.597	1.5	100	0.00
53 TMP Styrene	0.906	0.915	-1.0	100	0.00
54 TMP Isopropylbenzene	1.367	1.373	-0.4	100	0.00
55 TMP Bromoform	0.239	0.224	6.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.885	1.8	100	0.00
58 TMP n-Propylbenzene	3.326	3.380	-1.6	100	0.00
59 TMP Bromobenzene	0.814	0.810	0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.384	-3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.745	3.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.599	9.0	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.994	-2.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.289	-1.4	100	0.00
65 TMP tert-Butylbenzene	2.112	2.121	-0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.444	0.0	100	0.00
67 TMP sec-Butylbenzene	3.109	3.114	-0.2	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.626	-1.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.443	0.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.440	2.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.368	0.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.129	11.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.874	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.494	-1.0	100	0.00
75 TMP Naphthalene	2.138	2.006	6.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.800	3.1	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	94770	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	71267	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36487	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	25988	10.106	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.10%	
30) 1,2-Dichloroethane-d4	4.45	102	6226	10.933	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	109.30%	
35) Toluene-d8	6.10	98	108389	10.294	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.90%	
57) 4-Bromofluorobenzene	8.50	95	32035	9.748	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	97.50%	
Target Compounds							
2) Ethanol	2.33	45	697	No Calib			Qvalue
4) Dichlorodifluoromethane	1.12	85	169125	19.695	ppb		98
5) Chloromethane	1.26	50	176757	19.653	ppb		96
6] Vinyl chloride	1.33	62	139912	19.206	ppb		99
7) Bromomethane	1.58	94	67669	18.954	ppb		92
8] Chloroethane	1.65	64	55966	18.306	ppb		100
9) Trichlorofluoromethane	1.85	101	228754	20.160	ppb		97
10) 2-Propanol	2.33	45	697	No Calib			
11) Acetone	2.33	58	35244	93.944	ppb	#	86
12] 1,1-Dichloroethene	2.27	96	51504	20.100	ppb		92
13) Hexane	3.16	57	74919	20.076	ppb		99
14) Methylene chloride	2.69	84	45069	19.523	ppb		97
15) t-Butyl alcohol (TBA)	2.82	59	31295	101.593	ppb		96
16] Methyl t-butyl ether (...)	2.93	73	117260	19.725	ppb		96
17] trans-1,2-Dichloroethene	2.92	96	49517	20.525	ppb		86
18) Diisopropyl ether (DIPE)	3.35	45	177953	20.059	ppb		97
19] 1,1-Dichloroethane	3.27	63	90258	19.599	ppb		95
20) Ethyl t-butyl ether (E...)	3.66	87	51148	20.465	ppb		91
21) 2,2-Dichloropropane	3.77	77	47162	18.521	ppb		97
22] cis-1,2-Dichloroethene	3.77	96	53320	19.484	ppb		96
23) Chloroform	4.04	83	84848	19.715	ppb		97
24) 2-Butanone (MEK)	3.79	43	170305	93.307	ppb		98
25) t-Amyl methyl ether (T...)	4.61	73	112776	20.040	ppb		96
26] 1,2-Dichloroethane (EDC)	4.52	62	74754	20.833	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	77077	20.045	ppb		95
28) 1,1-Dichloropropene	4.33	75	65433	20.112	ppb		95
29) Carbon tetrachloride	4.33	117	67468	20.084	ppb		98
31] Benzene	4.50	78	189748	20.630	ppb		98
32] Trichloroethene	5.05	95	57710	20.458	ppb	#	73
33) 1,2-Dichloropropane	5.24	63	50082	19.620	ppb		100
34) Bromodichloromethane	5.48	83	62745	20.244	ppb		99
36) Dibromomethane	5.34	93	32837	19.967	ppb		93

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

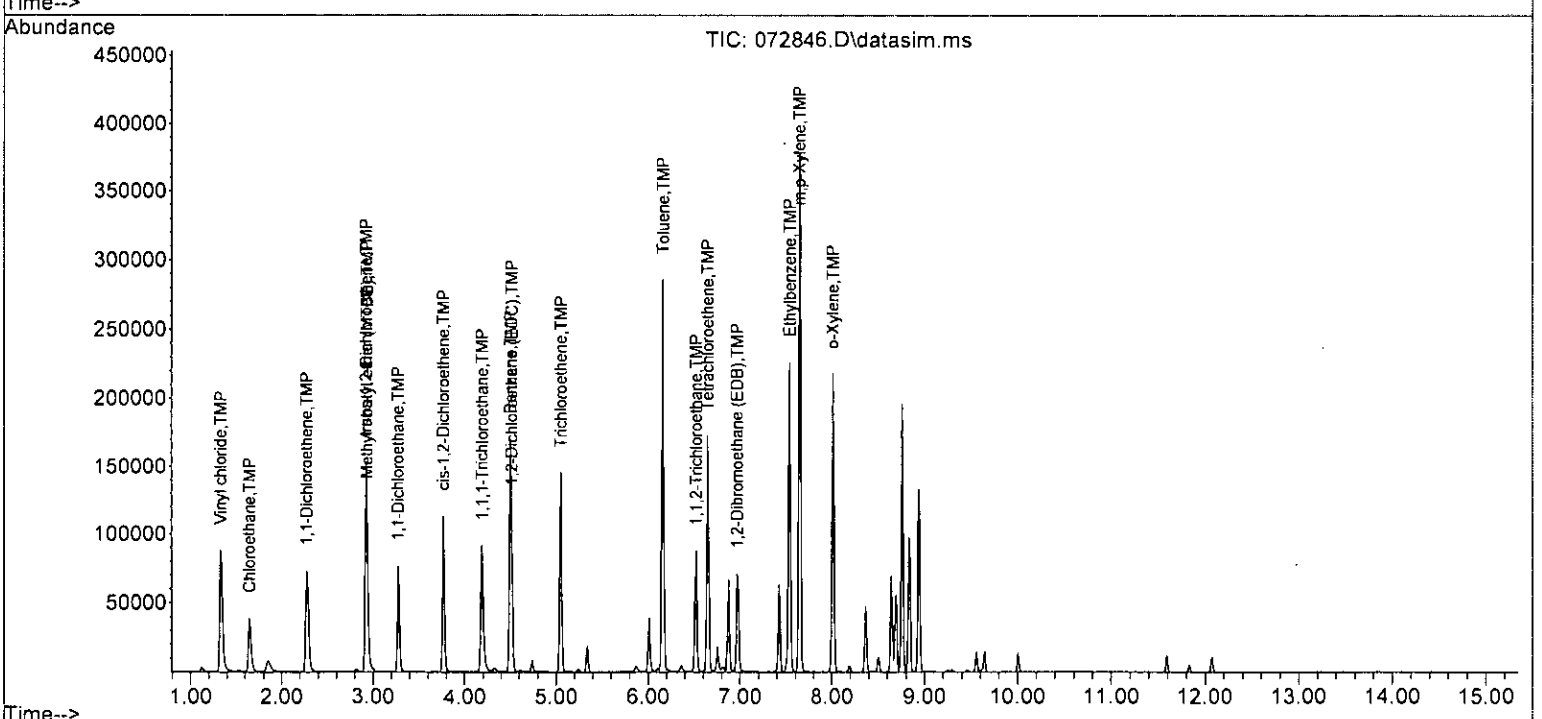
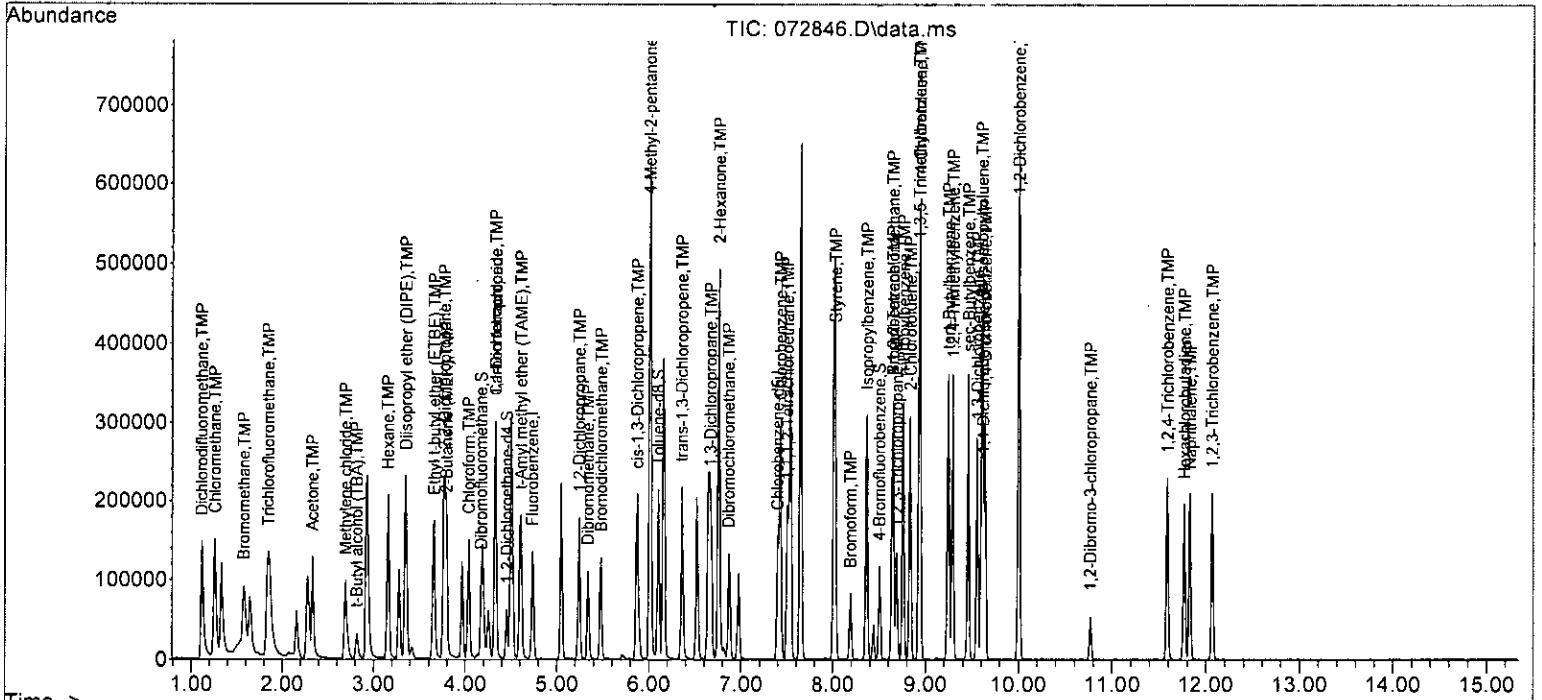
Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	55483	103.703	ppb	97
38) cis-1,3-Dichloropropene	5.87	75	85372	20.044	ppb	97
40] Toluene	6.16	92	148288	21.119	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	75386	20.061	ppb	96
42] 1,1,2-Trichloroethane	6.52	83	46964	20.374	ppb #	74
43) 2-Hexanone	6.76	43	331241	103.104	ppb	97
44) 1,3-Dichloropropane	6.67	76	81410	19.980	ppb	93
45] Tetrachloroethene	6.64	164	58364	21.006	ppb	95
46) Dibromochloromethane	6.87	129	63167	20.402	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	62317	20.844	ppb	96
48) Chlorobenzene	7.43	112	135934	20.494	ppb	98
49] Ethylbenzene	7.54	91	227163	21.547	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	48192	20.548	ppb	98
51] m,p-Xylene	7.64	106	178277	43.222	ppb	98
52] o-Xylene	8.01	106	85859	21.126	ppb	98
53) Styrene	8.03	104	132773	20.553	ppb	100
54) Isopropylbenzene	8.37	105	198348	20.362	ppb	98
55) Bromoform	8.19	173	33078	19.427	ppb	99
58) n-Propylbenzene	8.76	91	240075	19.785	ppb	97
59) Bromobenzene	8.65	156	57556	19.369	ppb	97
60) 1,3,5-Trimethylbenzene	8.93	105	170354	20.204	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.65	83	54315	19.394	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	42937	17.888	ppb	98
63) 2-Chlorotoluene	8.84	91	142745	20.089	ppb	98
64) 4-Chlorotoluene	8.94	91	165909	20.144	ppb	99
65) tert-Butylbenzene	9.25	119	152802	19.825	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	180399	20.231	ppb	100
67) sec-Butylbenzene	9.46	105	226495	19.969	ppb	97
68) p-Isopropyltoluene	9.61	119	193316	20.419	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	105659	20.064	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	106602	19.801	ppb	99
71) 1,2-Dichlorobenzene	10.00	146	99592	19.905	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	10142	19.068	ppb	93
73) 1,2,4-Trichlorobenzene	11.59	180	65277	19.711	ppb	99
74) Hexachlorobutadiene	11.77	225	34666	19.446	ppb	99
75) Naphthalene	11.83	128	151257	19.394	ppb	100
76) 1,2,3-Trichlorobenzene	12.07	180	58203	19.321	ppb	98

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-1980  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	10.106	-1.1	100	0.01
4 TMP	Dichlorodifluoromethane	20.000	19.695	1.5	100	0.00
5 TMP	Chloromethane	20.000	19.653	1.7	100	0.00
6 TMP	Vinyl chloride	20.000	19.206	4.0	100	0.01
7 TMP	Bromomethane	20.000	18.954	5.2	100	0.01
8 TMP	Chloroethane	20.000	18.306	8.5	100	0.01
9 TMP	Trichlorofluoromethane	20.000	20.160	-0.8	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	100.000	93.944	6.1	100	0.01
12 TMP	1,1-Dichloroethene	20.000	20.100	-0.5	100	0.01
13 TMP	Hexane	20.000	20.076	-0.4	100	0.01
14 TMP	Methylene chloride	20.000	19.523	2.4	100	0.00
15 TMP	t-Butyl alcohol (TBA)	100.000	101.593	-1.6	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	20.000	19.725	1.4	100	0.01
17 TMP	trans-1,2-Dichloroethene	20.000	20.525	-2.6	100	0.01
18 TMP	Diisopropyl ether (DIPE)	20.000	20.059	-0.3	100	0.01
19 TMP	1,1-Dichloroethane	20.000	19.599	2.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	20.000	20.465	-2.3	100	0.01
21 TMP	2,2-Dichloropropane	20.000	18.521	7.4	100	0.01
22 TMP	cis-1,2-Dichloroethene	20.000	19.484	2.6	100	0.01
23 TMP	Chloroform	20.000	19.715	1.4	100	0.01
24 TMP	2-Butanone (MEK)	100.000	93.307	6.7	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	20.000	20.040	-0.2	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	20.000	20.833	-4.2	100	0.00
27 TMP	1,1,1-Trichloroethane	20.000	20.045	-0.2	100	0.00
28 TMP	1,1-Dichloropropene	20.000	20.112	-0.6	100	0.01
29 TMP	Carbon tetrachloride	20.000	20.084	-0.4	100	0.01
30 S	1,2-Dichloroethane-d4	10.000	10.933	-9.3	100	0.00
31 TMP	Benzene	20.000	20.630	-3.1	100	0.01
32 TMP	Trichloroethene	20.000	20.458	-2.3	100	0.01
33 TMP	1,2-Dichloropropane	20.000	19.620	1.9	100	0.01
34 TMP	Bromodichloromethane	20.000	20.244	-1.2	100	0.01
35 S	Toluene-d8	10.000	10.294	-2.9	100	0.00
36 TMP	Dibromomethane	20.000	19.967	0.2	100	0.00
37 TMP	4-Methyl-2-pentanone	100.000	103.703	-3.7	100	0.00
38 TMP	cis-1,3-Dichloropropene	20.000	20.044	-0.2	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	20.000	21.119	-5.6	100	0.00
41 TMP	trans-1,3-Dichloropropene	20.000	20.061	-0.3	100	0.00
42 TMP	1,1,2-Trichloroethane	20.000	20.374	-1.9	100	0.01
43 TMP	2-Hexanone	100.000	103.104	-3.1	100	0.00

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	20.000	19.980	0.1	100	0.00
45	TMP Tetrachloroethene	20.000	21.006	-5.0	100	0.00
46	TMP Dibromochloromethane	20.000	20.402	-2.0	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	20.000	20.844	-4.2	100	0.00
48	TMP Chlorobenzene	20.000	20.494	-2.5	100	0.00
49	TMP Ethylbenzene	20.000	21.547	-7.7	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	20.000	20.548	-2.7	100	0.00
51	TMP m,p-Xylene	40.000	43.222	-8.1	100	0.00
52	TMP o-Xylene	20.000	21.126	-5.6	100	0.00
53	TMP Styrene	20.000	20.553	-2.8	100	0.00
54	TMP Isopropylbenzene	20.000	20.362	-1.8	100	0.01
55	TMP Bromoform	20.000	19.427	2.9	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	9.748	2.5	100	0.00
58	TMP n-Propylbenzene	20.000	19.785	1.1	100	0.00
59	TMP Bromobenzene	20.000	19.369	3.2	100	0.00
60	TMP 1,3,5-Trimethylbenzene	20.000	20.204	-1.0	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	20.000	19.394	3.0	100	0.00
62	TMP 1,2,3-Trichloropropane	20.000	17.888	10.6	100	0.00
63	TMP 2-Chlorotoluene	20.000	20.089	-0.4	100	0.00
64	TMP 4-Chlorotoluene	20.000	20.144	-0.7	100	0.00
65	TMP tert-Butylbenzene	20.000	19.825	0.9	100	0.00
66	TMP 1,2,4-Trimethylbenzene	20.000	20.231	-1.2	100	0.00
67	TMP sec-Butylbenzene	20.000	19.969	0.2	100	0.00
68	TMP p-Isopropyltoluene	20.000	20.419	-2.1	100	0.00
69	TMP 1,3-Dichlorobenzene	20.000	20.064	-0.3	100	0.00
70	TMP 1,4-Dichlorobenzene	20.000	19.801	1.0	100	0.00
71	TMP 1,2-Dichlorobenzene	20.000	19.905	0.5	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	20.000	19.068	4.7	100	0.00
73	TMP 1,2,4-Trichlorobenzene	20.000	19.711	1.4	100	0.00
74	TMP Hexachlorobutadiene	20.000	19.446	2.8	100	0.00
75	TMP Naphthalene	20.000	19.394	3.0	100	0.00
76	TMP 1,2,3-Trichlorobenzene	20.000	19.321	3.4	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	0.02
3 S Dibromofluoromethane	0.271	0.274	-1.1	100	0.01
4 TMP Dichlorodifluoromethane	0.906	0.892	1.5	100	0.00
5 TMP Chloromethane	0.949	0.933	1.7	100	0.00
6 TMP Vinyl chloride	0.769	0.738	4.0	100	0.01
7 TMP Bromomethane	0.377	0.357	5.3	100	0.01
8 TMP Chloroethane	0.323	0.295	8.7	100	0.01
9 TMP Trichlorofluoromethane	1.197	1.207	-0.8	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.02
11 TMP Acetone	0.040	0.037	7.5	100	0.01
12 TMP 1,1-Dichloroethene	0.288	0.272	5.6	100	0.01
13 TMP Hexane	0.394	0.395	-0.3	100	0.01
14 TMP Methylene chloride	0.244	0.238	2.5	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.033	0.0	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.619	1.3	100	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.261	7.4	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.936	0.939	-0.3	100	0.01
19 TMP 1,1-Dichloroethane	0.486	0.476	2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.270	-2.3	100	0.01
21 TMP 2,2-Dichloropropane	0.269	0.249	7.4	100	0.01
22 TMP cis-1,2-Dichloroethene	0.289	0.281	2.8	100	0.01
23 TMP Chloroform	0.454	0.448	1.3	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.180	6.7	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.594	0.595	-0.2	100	0.01
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.394	14.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.407	-0.2	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.345	-0.6	100	0.01
29 TMP Carbon tetrachloride	0.354	0.356	-0.6	100	0.01
30 S 1,2-Dichloroethane-d4	0.060	0.066	-10.0	100	0.00
31 TMP Benzene	1.042	1.001	3.9	100	0.01
32 TMP Trichloroethene	0.326	0.304	6.7	100	0.01
33 TMP 1,2-Dichloropropane	0.269	0.264	1.9	100	0.01
34 TMP Bromodichloromethane	0.327	0.331	-1.2	100	0.01
35 S Toluene-d8	1.111	1.144	-3.0	100	0.00
36 TMP Dibromomethane	0.174	0.173	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.059	-5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.450	-0.2	100	0.01
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	1.040	4.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.529	-0.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.329	-1.9	100	0.01
43 TMP 2-Hexanone	0.451	0.465	-3.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.571	0.2	100	0.00
45 TMP Tetrachloroethene	0.446	0.409	8.3	100	0.00
46 TMP Dibromochloromethane	0.434	0.443	-2.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.437	6.8	100	0.00
48 TMP Chlorobenzene	0.931	0.954	-2.5	100	0.00
49 TMP Ethylbenzene	1.609	1.594	0.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.338	-2.7	100	0.00
51 TMP m,p-Xylene	0.630	0.625	0.8	100	0.00
52 TMP o-Xylene	0.606	0.602	0.7	100	0.00
53 TMP Styrene	0.906	0.932	-2.9	100	0.00
54 TMP Isopropylbenzene	1.367	1.392	-1.8	100	0.01
55 TMP Bromoform	0.239	0.232	2.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.878	2.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.290	1.1	100	0.00
59 TMP Bromobenzene	0.814	0.789	3.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.334	-1.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.744	3.1	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.588	10.6	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.956	-0.5	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.274	-0.8	100	0.00
65 TMP tert-Butylbenzene	2.112	2.094	0.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.472	-1.1	100	0.00
67 TMP sec-Butylbenzene	3.109	3.104	0.2	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.649	-2.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.448	-0.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.461	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.365	0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.139	4.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.895	1.4	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.475	2.9	100	0.00
75 TMP Naphthalene	2.138	2.073	3.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.798	3.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	92141	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	71248	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36130	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	25653	10.260	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.60%	
30) 1,2-Dichloroethane-d4	4.45	102	5406	9.764	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	97.60%	
35) Toluene-d8	6.10	98	106485	10.402	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	104.00%	
57) 4-Bromofluorobenzene	8.50	95	32704	10.050	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.50%	
Target Compounds							
							Qvalue
2) Ethanol	2.33	45	1666	No Calib			
4) Dichlorodifluoromethane	1.11	85	424485	50.842	ppb		98
5) Chloromethane	1.25	50	439335	50.242	ppb		100
6] Vinyl chloride	1.33	62	344438	48.630	ppb		95
7) Bromomethane	1.57	94	163235	47.025	ppb		94
8] Chloroethane	1.65	64	136217	45.828	ppb		97
9) Trichlorofluoromethane	1.85	101	553370	50.159	ppb		98
10) 2-Propanol	2.33	45	1666	No Calib			
11) Acetone	2.32	58	96377	264.226	ppb		98
12] 1,1-Dichloroethene	2.27	96	124872	50.139	ppb		97
13) Hexane	3.16	57	179854	49.570	ppb		97
14) Methylene chloride	2.68	84	108843	48.494	ppb		96
15) t-Butyl alcohol (TBA)	2.81	59	74374	248.330	ppb		98
16] Methyl t-butyl ether (...)	2.93	73	279410	48.341	ppb		93
17] trans-1,2-Dichloroethene	2.91	96	119794	51.095	ppb		98
18) Diisopropyl ether (DIPE)	3.34	45	435483	50.488	ppb		98
19] 1,1-Dichloroethane	3.27	63	218097	48.710	ppb		99
20) Ethyl t-butyl ether (E...)	3.65	87	123680	50.898	ppb		96
21) 2,2-Dichloropropane	3.76	77	111479	45.027	ppb		97
22] cis-1,2-Dichloroethene	3.77	96	129033	48.495	ppb		96
23) Chloroform	4.04	83	209871	50.156	ppb		94
24) 2-Butanone (MEK)	3.78	43	466458	262.855	ppb		99
25) t-Amyl methyl ether (T...)	4.60	73	280288	51.227	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	178997	51.356	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	188771	50.494	ppb		99
28) 1,1-Dichloropropene	4.32	75	160548	50.755	ppb		98
29) Carbon tetrachloride	4.32	117	170135	52.090	ppb		100
31] Benzene	4.50	78	455671	50.973	ppb		99
32] Trichloroethene	5.04	95	138003	50.337	ppb		98
33) 1,2-Dichloropropane	5.24	63	122330	49.291	ppb		100
34) Bromodichloromethane	5.48	83	157042	52.114	ppb		99
36) Dibromomethane	5.34	93	79532	49.740	ppb		96

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

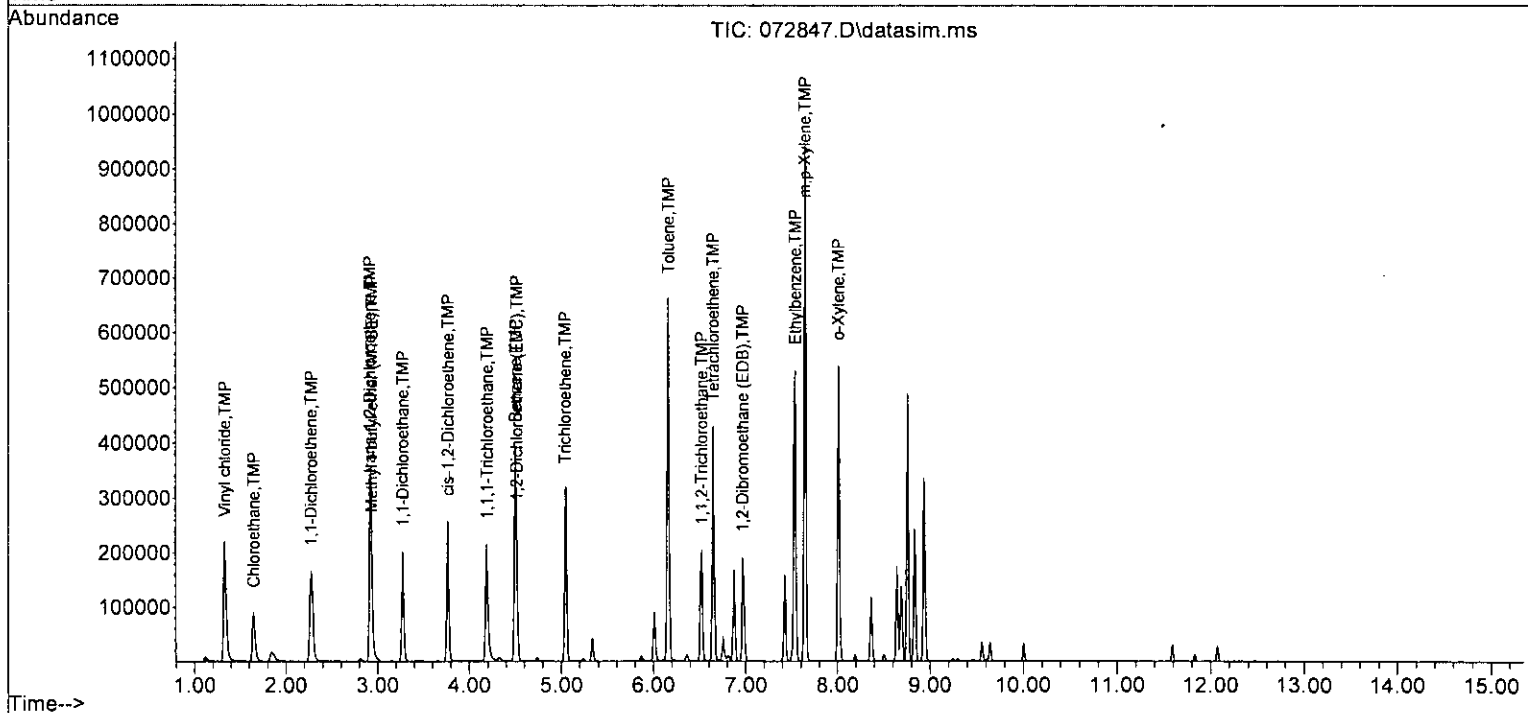
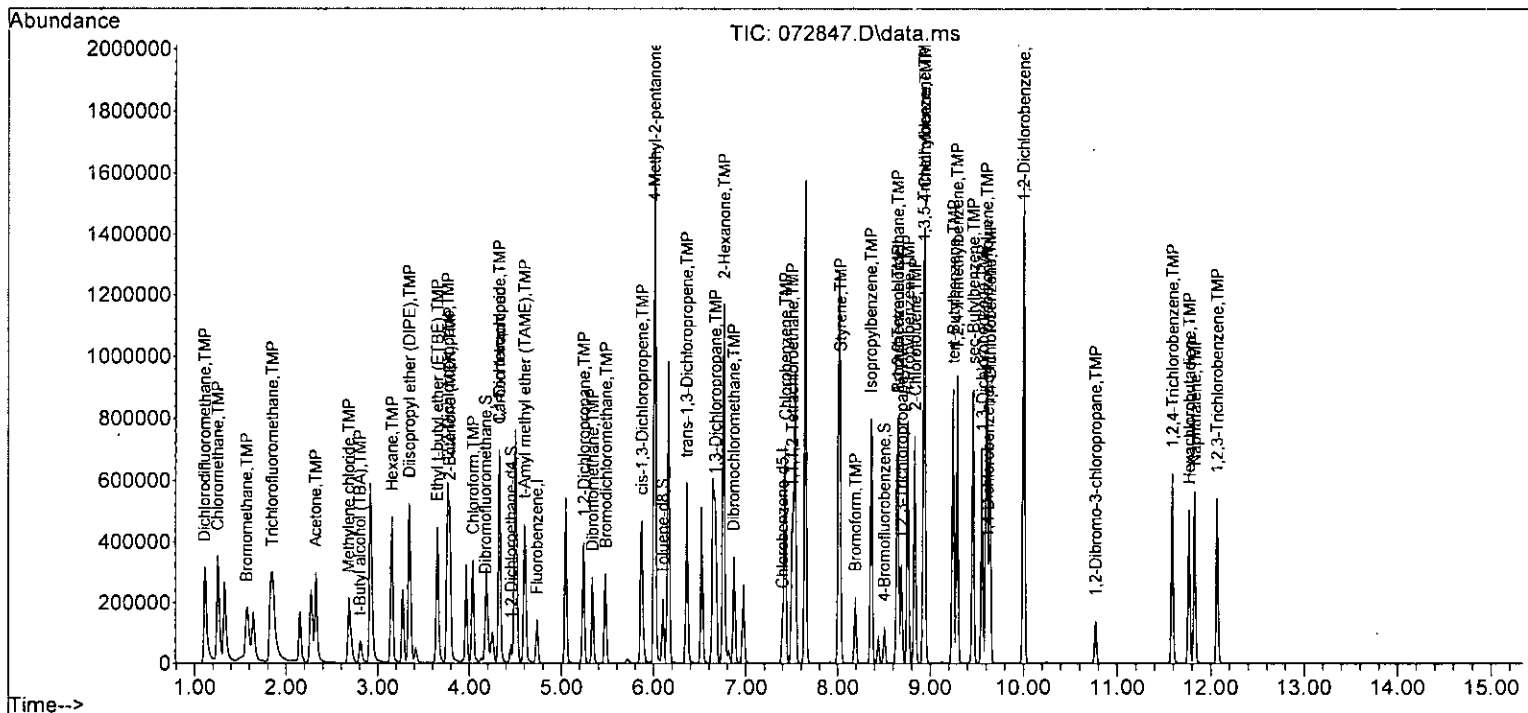
Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	136617	262.636	ppb	95
38) cis-1,3-Dichloropropene	5.87	75	218768	52.828	ppb	93
40] Toluene	6.16	92	362588	51.678	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	199322	53.055	ppb	98
42] 1,1,2-Trichloroethane	6.52	83	116648	50.617	ppb #	71
43) 2-Hexanone	6.76	43	833504	259.511	ppb	95
44) 1,3-Dichloropropane	6.67	76	205093	50.347	ppb	95
45] Tetrachloroethene	6.64	164	143194	51.583	ppb	96
46) Dibromochloromethane	6.87	129	162888	52.624	ppb	98
47] 1,2-Dibromoethane (EDB)	6.97	107	154593	51.737	ppb	97
48) Chlorobenzene	7.43	112	333445	50.285	ppb	99
49] Ethylbenzene	7.54	91	557507	52.914	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	121390	51.771	ppb	99
51] m,p-Xylene	7.64	106	436367	105.862	ppb	99
52] o-Xylene	8.01	106	212687	52.361	ppb	98
53) Styrene	8.03	104	335584	51.962	ppb	99
54) Isopropylbenzene	8.36	105	500426	51.387	ppb	100
55) Bromoform	8.19	173	89828	52.772	ppb	96
58) n-Propylbenzene	8.76	91	598850	49.840	ppb	98
59) Bromobenzene	8.65	156	143672	48.827	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	423793	50.759	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	136430	49.196	ppb	99
62) 1,2,3-Trichloropropane	8.69	75	106493	44.806	ppb	98
63) 2-Chlorotoluene	8.84	91	345192	49.060	ppb	100
64) 4-Chlorotoluene	8.94	91	411244	50.425	ppb	99
65) tert-Butylbenzene	9.25	119	382032	50.055	ppb	100
66) 1,2,4-Trimethylbenzene	9.29	105	450008	50.965	ppb	99
67) sec-Butylbenzene	9.46	105	566496	50.440	ppb	97
68) p-Isopropyltoluene	9.61	119	489428	52.207	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	264179	50.662	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	265121	49.732	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	249083	50.274	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	25419	48.264	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	166312	50.716	ppb	97
74) Hexachlorobutadiene	11.77	225	89178	50.519	ppb	97
75) Naphthalene	11.83	128	405212	52.469	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	153166	51.348	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.260	-2.6	100	0.01
4 TMP Dichlorodifluoromethane	50.000	50.842	-1.7	100	0.00
5 TMP Chloromethane	50.000	50.242	-0.5	100	0.00
6 TMP Vinyl chloride	50.000	48.630	2.7	100	0.01
7 TMP Bromomethane	50.000	47.025	6.0	100	0.00
8 TMP Chloroethane	50.000	45.828	8.3	100	0.01
9 TMP Trichlorofluoromethane	50.000	50.159	-0.3	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	250.000	264.226	-5.7	100	0.00
12 TMP 1,1-Dichloroethene	50.000	50.139	-0.3	100	0.01
13 TMP Hexane	50.000	49.570	0.9	100	0.01
14 TMP Methylene chloride	50.000	48.494	3.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	248.330	0.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	50.000	48.341	3.3	100	0.01
17 TMP trans-1,2-Dichloroethene	50.000	51.095	-2.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	50.488	-1.0	100	0.00
19 TMP 1,1-Dichloroethane	50.000	48.710	2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	50.898	-1.8	100	0.00
21 TMP 2,2-Dichloropropane	50.000	45.027	9.9	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	48.495	3.0	100	0.01
23 TMP Chloroform	50.000	50.156	-0.3	100	0.01
24 TMP 2-Butanone (MEK)	250.000	262.855	-5.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	51.227	-2.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	51.356	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	50.494	-1.0	100	0.00
28 TMP 1,1-Dichloropropene	50.000	50.755	-1.5	100	0.00
29 TMP Carbon tetrachloride	50.000	52.090	-4.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.764	2.4	100	0.00
31 TMP Benzene	50.000	50.973	-1.9	100	0.01
32 TMP Trichloroethene	50.000	50.337	-0.7	100	0.00
33 TMP 1,2-Dichloropropane	50.000	49.291	1.4	100	0.01
34 TMP Bromodichloromethane	50.000	52.114	-4.2	100	0.01
35 S Toluene-d8	10.000	10.402	-4.0	100	0.00
36 TMP Dibromomethane	50.000	49.740	0.5	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	262.636	-5.1	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	52.828	-5.7	100	0.01
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	51.678	-3.4	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	53.055	-6.1	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	50.617	-1.2	100	0.01
43 TMP 2-Hexanone	250.000	259.511	-3.8	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	50.347	-0.7	100	0.00
45 TMP Tetrachloroethene	50.000	51.583	-3.2	100	0.00
46 TMP Dibromochloromethane	50.000	52.624	-5.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	51.737	-3.5	100	0.00
48 TMP Chlorobenzene	50.000	50.285	-0.6	100	0.00
49 TMP Ethylbenzene	50.000	52.914	-5.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	51.771	-3.5	100	0.00
51 TMP m,p-Xylene	100.000	105.862	-5.9	100	0.00
52 TMP o-Xylene	50.000	52.361	-4.7	100	0.00
53 TMP Styrene	50.000	51.962	-3.9	100	0.00
54 TMP Isopropylbenzene	50.000	51.387	-2.8	100	0.00
55 TMP Bromoform	50.000	52.772	-5.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.050	-0.5	100	0.00
58 TMP n-Propylbenzene	50.000	49.840	0.3	100	0.00
59 TMP Bromobenzene	50.000	48.827	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	50.759	-1.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	49.196	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	44.806	10.4	100	0.00
63 TMP 2-Chlorotoluene	50.000	49.060	1.9	100	0.00
64 TMP 4-Chlorotoluene	50.000	50.425	-0.8	100	0.00
65 TMP tert-Butylbenzene	50.000	50.055	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	50.965	-1.9	100	0.00
67 TMP sec-Butylbenzene	50.000	50.440	-0.9	100	0.00
68 TMP p-Isopropyltoluene	50.000	52.207	-4.4	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	50.662	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	49.732	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	50.274	-0.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	48.264	3.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.716	-1.4	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.519	-1.0	100	0.00
75 TMP Naphthalene	50.000	52.469	-4.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	51.348	-2.7	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	0.02
3 S Dibromofluoromethane	0.271	0.278	-2.6	100	0.01
4 TMP Dichlorodifluoromethane	0.906	0.921	-1.7	100	0.00
5 TMP Chloromethane	0.949	0.954	-0.5	100	0.00
6 TMP Vinyl chloride	0.769	0.748	2.7	100	0.01
7 TMP Bromomethane	0.377	0.354	6.1	100	0.00
8 TMP Chloroethane	0.323	0.296	8.4	100	0.01
9 TMP Trichlorofluoromethane	1.197	1.201	-0.3	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.02
11 TMP Acetone	0.040	0.042	-5.0	100	0.00
12 TMP 1,1-Dichloroethene	0.288	0.271	5.9	100	0.01
13 TMP Hexane	0.394	0.390	1.0	100	0.01
14 TMP Methylene chloride	0.244	0.236	3.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.032	3.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.606	3.3	100	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.260	7.8	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	0.945	-1.0	100	0.00
19 TMP 1,1-Dichloroethane	0.486	0.473	2.7	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.268	-1.5	100	0.00
21 TMP 2,2-Dichloropropane	0.269	0.242	10.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.289	0.280	3.1	100	0.01
23 TMP Chloroform	0.454	0.456	-0.4	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.202	-4.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.594	0.608	-2.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.389	15.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.410	-1.0	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.348	-1.5	100	0.00
29 TMP Carbon tetrachloride	0.354	0.369	-4.2	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.042	0.989	5.1	100	0.01
32 TMP Trichloroethene	0.326	0.300	8.0	100	0.00
33 TMP 1,2-Dichloropropane	0.269	0.266	1.1	100	0.01
34 TMP Bromodichloromethane	0.327	0.341	-4.3	100	0.01
35 S Toluene-d8	1.111	1.156	-4.1	100	0.00
36 TMP Dibromomethane	0.174	0.173	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.059	-5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.475	-5.8	100	0.01
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	1.018	6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.560	-6.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.327	-1.2	100	0.01
43 TMP 2-Hexanone	0.451	0.468	-3.8	100	0.00

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.576	-0.7	100	0.00
45 TMP Tetrachloroethene	0.446	0.402	9.9	100	0.00
46 TMP Dibromochloromethane	0.434	0.457	-5.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.434	7.5	100	0.00
48 TMP Chlorobenzene	0.931	0.936	-0.5	100	0.00
49 TMP Ethylbenzene	1.609	1.565	2.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.341	-3.6	100	0.00
51 TMP m,p-Xylene	0.630	0.612	2.9	100	0.00
52 TMP o-Xylene	0.606	0.597	1.5	100	0.00
53 TMP Styrene	0.906	0.942	-4.0	100	0.00
54 TMP Isopropylbenzene	1.367	1.405	-2.8	100	0.00
55 TMP Bromoform	0.239	0.252	-5.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.905	-0.4	100	0.00
58 TMP n-Propylbenzene	3.326	3.315	0.3	100	0.00
59 TMP Bromobenzene	0.814	0.795	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.346	-1.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.755	1.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.589	10.5	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.911	1.8	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.276	-0.8	100	0.00
65 TMP tert-Butylbenzene	2.112	2.115	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.491	-1.9	100	0.00
67 TMP sec-Butylbenzene	3.109	3.136	-0.9	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.709	-4.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.462	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.468	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.379	-0.6	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.141	3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.921	-1.4	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.494	-1.0	100	0.00
75 TMP Naphthalene	2.138	2.243	-4.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.848	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	91235	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	71914	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36683	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	24405	9.858	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.60%
30) 1,2-Dichloroethane-d4	4.45	102	5612	10.237	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.40%
35) Toluene-d8	6.10	98	105285	10.387	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	103.90%
57) 4-Bromofluorobenzene	8.50	95	32732	9.907	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	99.10%
Target Compounds						
2) Ethanol	2.32	45	3155	No Calib		Qvalue
4) Dichlorodifluoromethane	1.11	85	858946	103.900	ppb	100
5) Chloromethane	1.25	50	882686	101.945	ppb	100
6] Vinyl chloride	1.33	62	684898	97.659	ppb	92
7) Bromomethane	1.57	94	325811	94.793	ppb	97
8] Chloroethane	1.64	64	269619	91.610	ppb	99
9) Trichlorofluoromethane	1.84	101	1153395	105.585	ppb	98
10) 2-Propanol	2.32	45	3155	No Calib		
11) Acetone	2.32	58	183501	508.081	ppb	98
12] 1,1-Dichloroethene	2.27	96	244058	98.977	ppb	93
13) Hexane	3.15	57	352914	98.233	ppb	97
14) Methylene chloride	2.68	84	215152	96.812	ppb	94
15) t-Butyl alcohol (TBA)	2.81	59	149031	502.546	ppb	100
16] Methyl t-butyl ether (...)	2.92	73	547864	95.728	ppb	98
17] trans-1,2-Dichloroethene	2.91	96	229851	99.025	ppb	93
18) Diisopropyl ether (DIPE)	3.34	45	839010	98.237	ppb	97
19] 1,1-Dichloroethane	3.27	63	419606	94.645	ppb	98
20) Ethyl t-butyl ether (E...)	3.65	87	241551	100.392	ppb	93
21) 2,2-Dichloropropane	3.76	77	262454	107.060	ppb	95
22] cis-1,2-Dichloroethene	3.77	96	247471	93.932	ppb	95
23) Chloroform	4.04	83	404230	97.564	ppb	94
24) 2-Butanone (MEK)	3.78	43	891473	507.345	ppb	98
25) t-Amyl methyl ether (T...)	4.60	73	543163	100.258	ppb	100
26] 1,2-Dichloroethane (EDC)	4.52	62	344696	99.910	ppb	99
27] 1,1,1-Trichloroethane	4.19	97	372152	100.535	ppb	99
28) 1,1-Dichloropropene	4.32	75	314387	100.377	ppb	96
29) Carbon tetrachloride	4.32	117	331983	102.653	ppb	98
31] Benzene	4.50	78	882581	99.719	ppb	98
32] Trichloroethene	5.04	95	271031	99.855	ppb	98
33) 1,2-Dichloropropane	5.24	63	239092	97.294	ppb	99
34) Bromodichloromethane	5.48	83	309208	103.628	ppb	98
36) Dibromomethane	5.34	93	158004	99.798	ppb	96

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

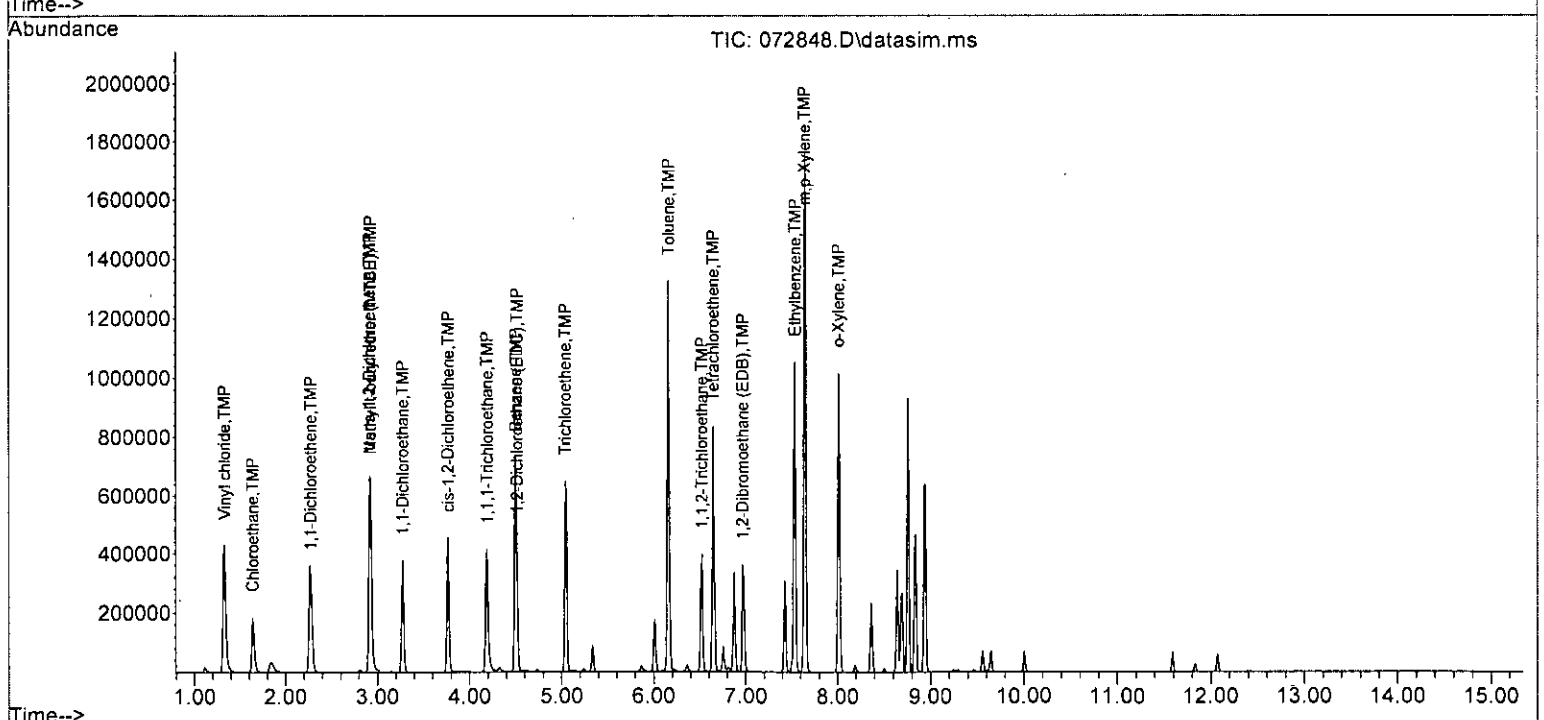
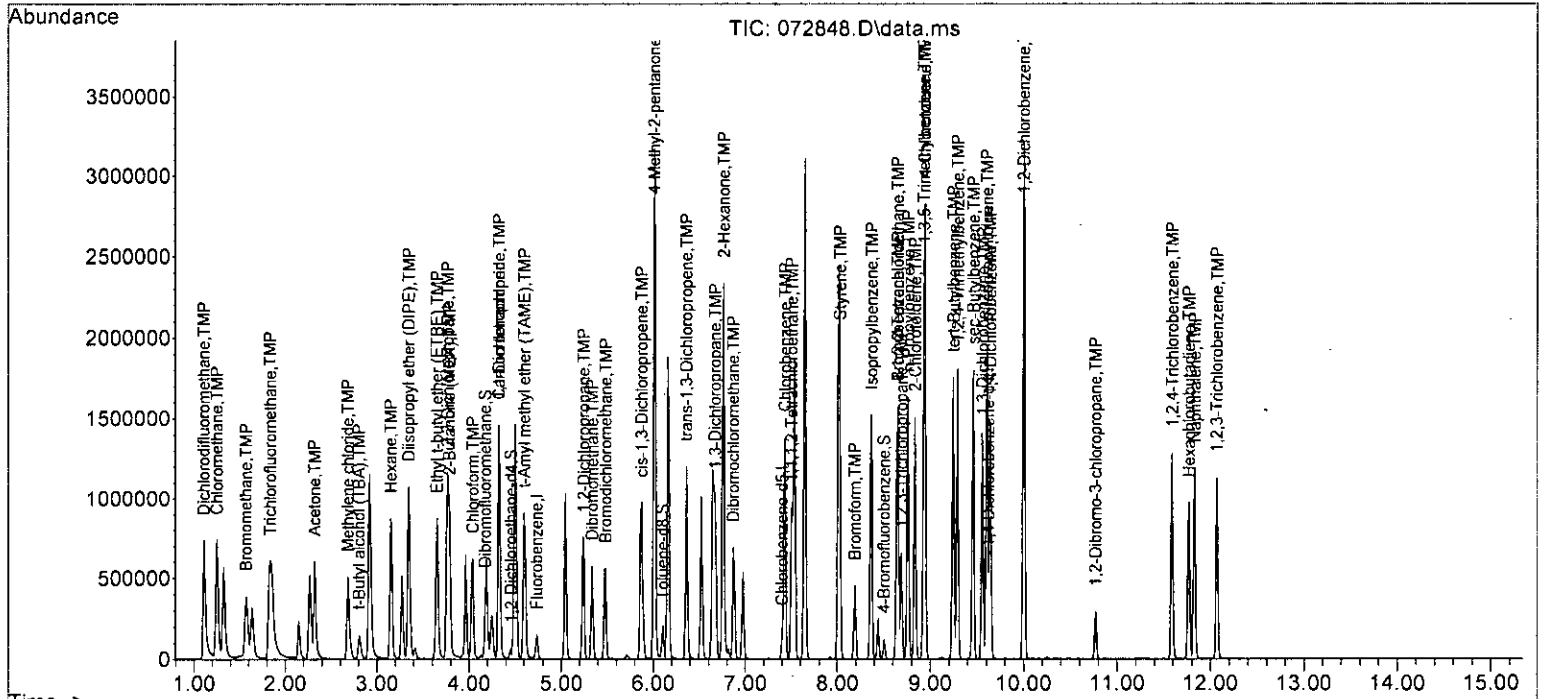
Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	265094	514.684	ppb	94
38) cis-1,3-Dichloropropene	5.87	75	441604	107.696	ppb	94
40] Toluene	6.16	92	713011	100.696	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	412135	108.686	ppb	99
42] 1,1,2-Trichloroethane	6.52	83	227603	97.849	ppb #	70
43) 2-Hexanone	6.76	43	1596247	492.388	ppb	96
44) 1,3-Dichloropropane	6.67	76	399227	97.097	ppb	97
45] Tetrachloroethene	6.64	164	280136	100.000	ppb	97
46) Dibromochloromethane	6.87	129	328656	105.196	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	302155	100.193	ppb	97
48) Chlorobenzene	7.43	112	664758	99.320	ppb	98
49] Ethylbenzene	7.54	91	1075657	101.159	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	240299	101.535	ppb	98
51] m,p-Xylene	7.64	106	840987	202.157	ppb	99
52] o-Xylene	8.01	106	414110	101.013	ppb	99
53) Styrene	8.03	104	656980	100.785	ppb	98
54) Isopropylbenzene	8.37	105	985644	100.276	ppb	99
55) Bromoform	8.19	173	182075	105.975	ppb	98
58) n-Propylbenzene	8.76	91	1176862	96.469	ppb	98
59) Bromobenzene	8.65	156	285694	95.630	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	832581	98.217	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	267612	95.044	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	210815	87.361	ppb	99
63) 2-Chlorotoluene	8.84	91	673896	94.333	ppb	100
64) 4-Chlorotoluene	8.94	91	802309	96.894	ppb	99
65) tert-Butylbenzene	9.25	119	763103	98.478	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	899815	100.372	ppb	99
67) sec-Butylbenzene	9.46	105	1128217	98.940	ppb	97
68) p-Isopropyltoluene	9.61	119	968294	101.730	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	526190	99.388	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	526798	97.329	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	500675	99.531	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	53352	99.773	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	352904	105.993	ppb	98
74) Hexachlorobutadiene	11.77	225	177818	99.215	ppb	98
75) Naphthalene	11.83	128	861095	109.819	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	316816	104.609	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	9.858	1.4	100	0.01
4 TMP	Dichlorodifluoromethane	100.000	103.900	-3.9	100	0.00
5 TMP	Chloromethane	100.000	101.945	-1.9	100	0.00
6 TMP	Vinyl chloride	100.000	97.659	2.3	100	0.01
7 TMP	Bromomethane	100.000	94.793	5.2	100	0.00
8 TMP	Chloroethane	100.000	91.610	8.4	100	0.00
9 TMP	Trichlorofluoromethane	100.000	105.585	-5.6	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP	Acetone	500.000	508.081	-1.6	100	0.00
12 TMP	1,1-Dichloroethene	100.000	98.977	1.0	100	0.01
13 TMP	Hexane	100.000	98.233	1.8	100	0.00
14 TMP	Methylene chloride	100.000	96.812	3.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	500.000	502.546	-0.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	100.000	95.728	4.3	100	0.00
17 TMP	trans-1,2-Dichloroethene	100.000	99.025	1.0	100	0.00
18 TMP	Diisopropyl ether (DIPE)	100.000	98.237	1.8	100	0.00
19 TMP	1,1-Dichloroethane	100.000	94.645	5.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	100.000	100.392	-0.4	100	0.00
21 TMP	2,2-Dichloropropane	100.000	107.060	-7.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	100.000	93.932	6.1	100	0.01
23 TMP	Chloroform	100.000	97.564	2.4	100	0.01
24 TMP	2-Butanone (MEK)	500.000	507.345	-1.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	100.000	100.258	-0.3	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	100.000	99.910	0.1	100	0.00
27 TMP	1,1,1-Trichloroethane	100.000	100.535	-0.5	100	0.00
28 TMP	1,1-Dichloropropene	100.000	100.377	-0.4	100	0.00
29 TMP	Carbon tetrachloride	100.000	102.653	-2.7	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.237	-2.4	100	0.00
31 TMP	Benzene	100.000	99.719	0.3	100	0.01
32 TMP	Trichloroethene	100.000	99.855	0.1	100	0.00
33 TMP	1,2-Dichloropropane	100.000	97.294	2.7	100	0.01
34 TMP	Bromodichloromethane	100.000	103.628	-3.6	100	0.01
35 S	Toluene-d8	10.000	10.387	-3.9	100	0.00
36 TMP	Dibromomethane	100.000	99.798	0.2	100	0.00
37 TMP	4-Methyl-2-pentanone	500.000	514.684	-2.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	100.000	107.696	-7.7	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	100.000	100.696	-0.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	100.000	108.686	-8.7	100	0.00
42 TMP	1,1,2-Trichloroethane	100.000	97.849	2.2	100	0.01
43 TMP	2-Hexanone	500.000	492.388	1.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	97.097	2.9	100	0.00
45 TMP Tetrachloroethene	100.000	100.000	0.0	100	0.00
46 TMP Dibromochloromethane	100.000	105.196	-5.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	100.193	-0.2	100	0.00
48 TMP Chlorobenzene	100.000	99.320	0.7	100	0.00
49 TMP Ethylbenzene	100.000	101.159	-1.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	101.535	-1.5	100	0.00
51 TMP m,p-Xylene	200.000	202.157	-1.1	100	0.00
52 TMP o-Xylene	100.000	101.013	-1.0	100	0.00
53 TMP Styrene	100.000	100.785	-0.8	100	0.00
54 TMP Isopropylbenzene	100.000	100.276	-0.3	100	0.01
55 TMP Bromoform	100.000	105.975	-6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.907	0.9	100	0.00
58 TMP n-Propylbenzene	100.000	96.469	3.5	100	0.00
59 TMP Bromobenzene	100.000	95.630	4.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	98.217	1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	95.044	5.0	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	87.361	12.6	100	0.00
63 TMP 2-Chlorotoluene	100.000	94.333	5.7	100	0.00
64 TMP 4-Chlorotoluene	100.000	96.894	3.1	100	0.00
65 TMP tert-Butylbenzene	100.000	98.478	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	100.372	-0.4	100	0.00
67 TMP sec-Butylbenzene	100.000	98.940	1.1	100	0.00
68 TMP p-Isopropyltoluene	100.000	101.730	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	99.388	0.6	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	97.329	2.7	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	99.531	0.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	99.773	0.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	105.993	-6.0	100	0.00
74 TMP Hexachlorobutadiene	100.000	99.215	0.8	100	0.00
75 TMP Naphthalene	100.000	109.819	-9.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	104.609	-4.6	100	0.00

(#) = Out of Range

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



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.01
3 S	Dibromofluoromethane	0.271	0.267	1.5	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.941	-3.9	100	0.00
5 TMP	Chloromethane	0.949	0.967	-1.9	100	0.00
6 TMP	Vinyl chloride	0.769	0.751	2.3	100	0.01
7 TMP	Bromomethane	0.377	0.357	5.3	100	0.00
8 TMP	Chloroethane	0.323	0.296	8.4	100	0.00
9 TMP	Trichlorofluoromethane	1.197	1.264	-5.6	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP	Acetone	0.040	0.040	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.288	0.268	6.9	100	0.01
13 TMP	Hexane	0.394	0.387	1.8	100	0.00
14 TMP	Methylene chloride	0.244	0.236	3.3	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.033	0.033	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.600	4.3	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.282	0.252	10.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.920	1.7	100	0.00
19 TMP	1,1-Dichloroethane	0.486	0.460	5.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.265	-0.4	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.288	-7.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.271	6.2	100	0.01
23 TMP	Chloroform	0.454	0.443	2.4	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.195	-1.0	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.595	-0.2	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.378	18.2	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.408	-0.5	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.345	-0.6	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.364	-2.8	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	1.042	0.967	7.2	100	0.01
32 TMP	Trichloroethene	0.326	0.297	8.9	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.262	2.6	100	0.01
34 TMP	Bromodichloromethane	0.327	0.339	-3.7	100	0.01
35 S	Toluene-d8	1.111	1.154	-3.9	100	0.00
36 TMP	Dibromomethane	0.174	0.173	0.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.058	-3.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.484	-7.8	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	0.991	9.2	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.573	-8.7	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.316	2.2	100	0.01
43 TMP	2-Hexanone	0.451	0.444	1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.555	3.0	100	0.00
45 TMP Tetrachloroethene	0.446	0.390	12.6	100	0.00
46 TMP Dibromochloromethane	0.434	0.457	-5.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.420	10.4	100	0.00
48 TMP Chlorobenzene	0.931	0.924	0.8	100	0.00
49 TMP Ethylbenzene	1.609	1.496	7.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.334	-1.5	100	0.00
51 TMP m,p-Xylene	0.630	0.585	7.1	100	0.00
52 TMP o-Xylene	0.606	0.576	5.0	100	0.00
53 TMP Styrene	0.906	0.914	-0.9	100	0.00
54 TMP Isopropylbenzene	1.367	1.371	-0.3	100	0.01
55 TMP Bromoform	0.239	0.253	-5.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.892	1.0	100	0.00
58 TMP n-Propylbenzene	3.326	3.208	3.5	100	0.00
59 TMP Bromobenzene	0.814	0.779	4.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.270	1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.730	4.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.575	12.6	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.837	5.6	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.187	3.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.080	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.453	-0.4	100	0.00
67 TMP sec-Butylbenzene	3.109	3.076	1.1	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.640	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.434	0.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.436	2.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.365	0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.145	0.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.962	-5.9	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.485	0.8	100	0.00
75 TMP Naphthalene	2.138	2.347	-9.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.864	-4.6	100	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	93669	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	74153	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37105	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	26043	10.246	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.50%	
30) 1,2-Dichloroethane-d4	4.45	102	5437	9.660	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	96.60%	
35) Toluene-d8	6.10	98	106647	10.248	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.50%	
57) 4-Bromofluorobenzene	8.50	95	32924	9.852	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.50%	
Target Compounds							
							Qvalue
2) Ethanol	2.33	45	4471	No Calib			
4) Dichlorodifluoromethane	1.12	85	1297799	152.905	ppb		99
5) Chloromethane	1.26	50	1354900	152.416	ppb		98
6] Vinyl chloride	1.34	62	1044475	145.060	ppb		93
7) Bromomethane	1.58	94	503364	142.645	ppb		95
8] Chloroethane	1.65	64	419615	138.869	ppb		99
9) Trichlorofluoromethane	1.85	101	1744208	155.520	ppb		98
10) 2-Propanol	2.33	45	4471	No Calib			
11) Acetone	2.33	58	278202	750.275	ppb		98
12] 1,1-Dichloroethene	2.27	96	376092	148.564	ppb		91
13) Hexane	3.16	57	544481	147.616	ppb		98
14) Methylene chloride	2.69	84	331527	145.301	ppb		95
15) t-Butyl alcohol (TBA)	2.82	59	233339	766.394	ppb		96
16] Methyl t-butyl ether (...)	2.93	73	818978	139.381	ppb		96
17] trans-1,2-Dichloroethene	2.92	96	353285	148.256	ppb		86
18) Diisopropyl ether (DIPE)	3.35	45	1298990	148.143	ppb		97
19] 1,1-Dichloroethane	3.27	63	640688	140.757	ppb		95
20) Ethyl t-butyl ether (E...)	3.66	87	371406	150.350	ppb		92
21) 2,2-Dichloropropane	3.77	77	387257	153.865	ppb		95
22] cis-1,2-Dichloroethene	3.77	96	380491	140.669	ppb		96
23) Chloroform	4.04	83	626415	147.261	ppb		95
24) 2-Butanone (MEK)	3.79	43	1366583	757.524	ppb		98
25) t-Amyl methyl ether (T...)	4.61	73	823572	148.066	ppb		99
26] 1,2-Dichloroethane (EDC)	4.52	62	525235	148.299	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	567216	149.249	ppb		96
28) 1,1-Dichloropropene	4.33	75	483006	150.206	ppb		95
29) Carbon tetrachloride	4.33	117	522464	157.353	ppb		97
31] Benzene	4.50	78	1350037	148.576	ppb		97
32] Trichloroethene	5.05	95	408322	146.534	ppb	#	73
33) 1,2-Dichloropropane	5.24	63	366854	145.405	ppb		100
34) Bromodichloromethane	5.48	83	487047	158.988	ppb		98
36) Dibromomethane	5.34	93	246336	151.547	ppb		92

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

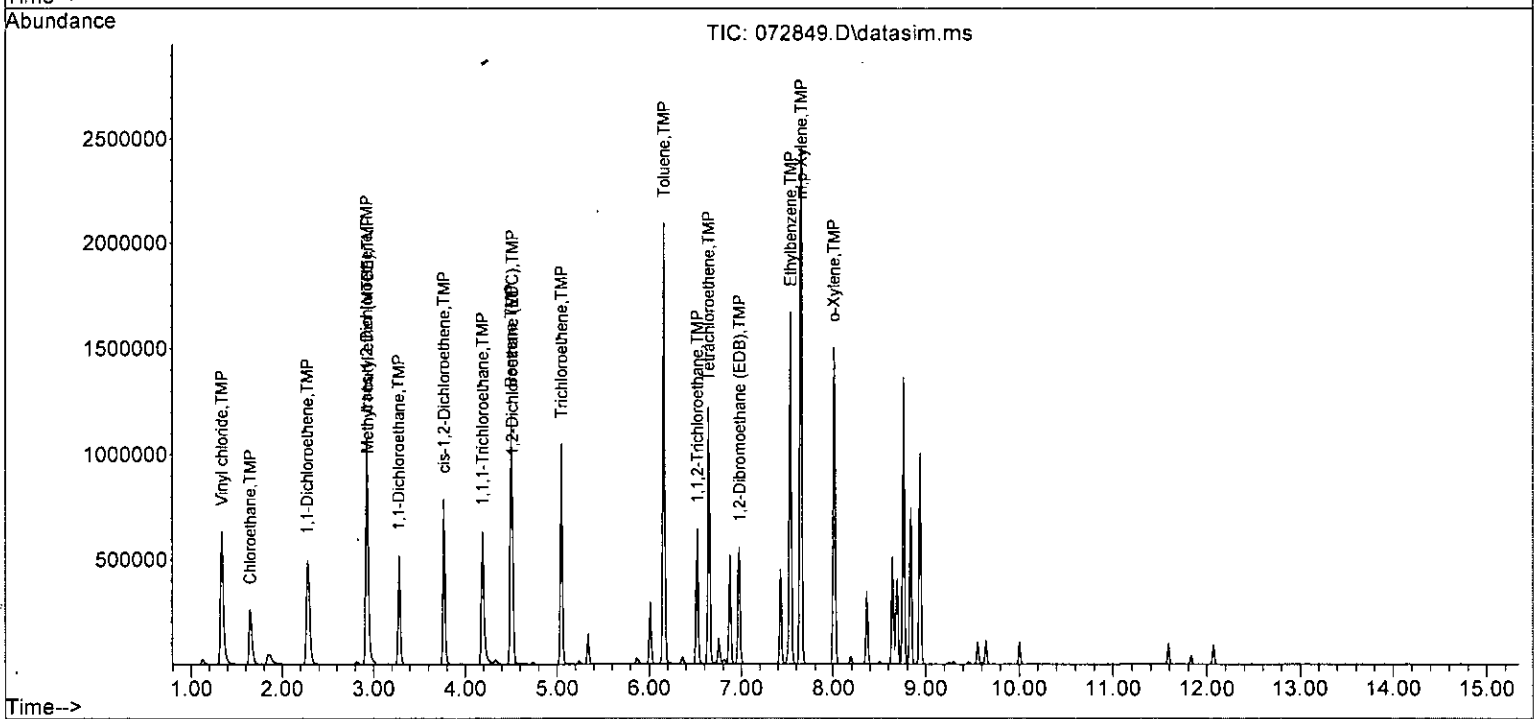
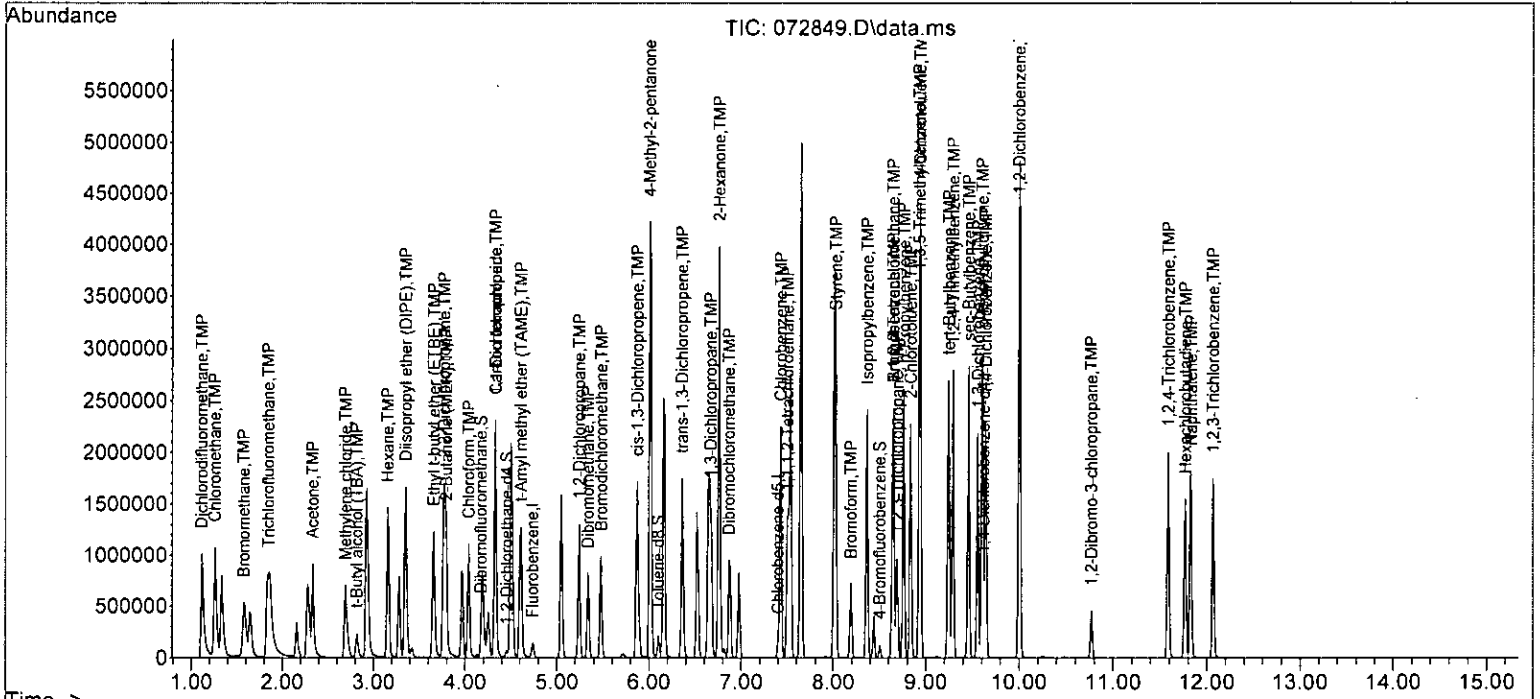
Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	399775	756.000	ppb	96
38) cis-1,3-Dichloropropene	5.87	75	694666	165.010	ppb	93
40] Toluene	6.16	92	1085210	148.641	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	633800	162.095	ppb	99
42] 1,1,2-Trichloroethane	6.52	83	346392	144.422	ppb #	77
43) 2-Hexanone	6.76	43	2444230	731.197	ppb	96
44) 1,3-Dichloropropane	6.67	76	607453	143.279	ppb	97
45] Tetrachloroethene	6.64	164	427433	147.984	ppb	95
46) Dibromochloromethane	6.87	129	509071	158.023	ppb	96
47] 1,2-Dibromoethane (EDB)	6.98	107	463187	148.958	ppb	92
48) Chlorobenzene	7.43	112	1007193	145.939	ppb	99
49] Ethylbenzene	7.54	91	1630639	148.728	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.50	131	370158	151.683	ppb	100
51] m,p-Xylene	7.65	106	1270286	296.144	ppb #	78
52] o-Xylene	8.01	106	627561	148.463	ppb	99
53) Styrene	8.03	104	1003810	149.341	ppb	98
54) Isopropylbenzene	8.37	105	1491760	147.183	ppb	99
55) Bromoform	8.19	173	288045	162.591	ppb	99
58) n-Propylbenzene	8.76	91	1774109	143.772	ppb	98
59) Bromobenzene	8.65	156	443029	146.608	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	1259153	146.849	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	406314	142.664	ppb	100
62) 1,2,3-Trichloropropane	8.69	75	315803	129.379	ppb	99
63) 2-Chlorotoluene	8.84	91	1024567	141.789	ppb	99
64) 4-Chlorotoluene	8.94	91	1217119	145.318	ppb	97
65) tert-Butylbenzene	9.25	119	1160690	148.082	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	1360618	150.047	ppb	97
67) sec-Butylbenzene	9.46	105	1713418	148.551	ppb	97
68) p-Isopropyltoluene	9.61	119	1468262	152.503	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	807390	150.767	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	807813	147.551	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	758756	149.120	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	84716	156.625	ppb	87
73) 1,2,4-Trichlorobenzene	11.59	180	546556	162.289	ppb	97
74) Hexachlorobutadiene	11.77	225	278282	153.504	ppb	99
75) Naphthalene	11.83	128	1332664	168.028	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	500891	163.508	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
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Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	10.246	-2.5	100	0.01
4 TMP	Dichlorodifluoromethane	150.000	152.905	-1.9	100	0.01
5 TMP	Chloromethane	150.000	152.416	-1.6	100	0.01
6 TMP	Vinyl chloride	150.000	145.060	3.3	100	0.02
7 TMP	Bromomethane	150.000	142.645	4.9	100	0.01
8 TMP	Chloroethane	150.000	138.869	7.4	100	0.01
9 TMP	Trichlorofluoromethane	150.000	155.520	-3.7	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	750.000	750.275	-0.0	100	0.01
12 TMP	1,1-Dichloroethene	150.000	148.564	1.0	100	0.01
13 TMP	Hexane	150.000	147.616	1.6	100	0.01
14 TMP	Methylene chloride	150.000	145.301	3.1	100	0.01
15 TMP	t-Butyl alcohol (TBA)	750.000	766.394	-2.2	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	150.000	139.381	7.1	100	0.01
17 TMP	trans-1,2-Dichloroethene	150.000	148.256	1.2	100	0.01
18 TMP	Diisopropyl ether (DIPE)	150.000	148.143	1.2	100	0.01
19 TMP	1,1-Dichloroethane	150.000	140.757	6.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	150.000	150.350	-0.2	100	0.01
21 TMP	2,2-Dichloropropane	150.000	153.865	-2.6	100	0.01
22 TMP	cis-1,2-Dichloroethene	150.000	140.669	6.2	100	0.01
23 TMP	Chloroform	150.000	147.261	1.8	100	0.01
24 TMP	2-Butanone (MEK)	750.000	757.524	-1.0	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	150.000	148.066	1.3	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	150.000	148.299	1.1	100	0.00
27 TMP	1,1,1-Trichloroethane	150.000	149.249	0.5	100	0.00
28 TMP	1,1-Dichloropropene	150.000	150.206	-0.1	100	0.01
29 TMP	Carbon tetrachloride	150.000	157.353	-4.9	100	0.01
30 S	1,2-Dichloroethane-d4	10.000	9.660	3.4	100	0.00
31 TMP	Benzene	150.000	148.576	0.9	100	0.01
32 TMP	Trichloroethene	150.000	146.534	2.3	100	0.01
33 TMP	1,2-Dichloropropane	150.000	145.405	3.1	100	0.01
34 TMP	Bromodichloromethane	150.000	158.988	-6.0	100	0.01
35 S	Toluene-d8	10.000	10.248	-2.5	100	0.00
36 TMP	Dibromomethane	150.000	151.547	-1.0	100	0.00
37 TMP	4-Methyl-2-pentanone	750.000	756.000	-0.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	150.000	165.010	-10.0	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	150.000	148.641	0.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	150.000	162.095	-8.1	100	0.00
42 TMP	1,1,2-Trichloroethane	150.000	144.422	3.7	100	0.01
43 TMP	2-Hexanone	750.000	731.197	2.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	143.279	4.5	100	0.00
45 TMP Tetrachloroethene	150.000	147.984	1.3	100	0.00
46 TMP Dibromochloromethane	150.000	158.023	-5.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	150.000	148.958	0.7	100	0.01
48 TMP Chlorobenzene	150.000	145.939	2.7	100	0.00
49 TMP Ethylbenzene	150.000	148.728	0.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	151.683	-1.1	100	0.00
51 TMP m,p-Xylene	300.000	296.144	1.3	100	0.01
52 TMP o-Xylene	150.000	148.463	1.0	100	0.00
53 TMP Styrene	150.000	149.341	0.4	100	0.00
54 TMP Isopropylbenzene	150.000	147.183	1.9	100	0.01
55 TMP Bromoform	150.000	162.591	-8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.852	1.5	100	0.00
58 TMP n-Propylbenzene	150.000	143.772	4.2	100	0.00
59 TMP Bromobenzene	150.000	146.608	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	146.849	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	142.664	4.9	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	129.379	13.7	100	0.00
63 TMP 2-Chlorotoluene	150.000	141.789	5.5	100	0.00
64 TMP 4-Chlorotoluene	150.000	145.318	3.1	100	0.00
65 TMP tert-Butylbenzene	150.000	148.082	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	150.047	-0.0	100	0.00
67 TMP sec-Butylbenzene	150.000	148.551	1.0	100	0.00
68 TMP p-Isopropyltoluene	150.000	152.503	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	150.767	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	147.551	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	149.120	0.6	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	156.625	-4.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	162.289	-8.2	100	0.00
74 TMP Hexachlorobutadiene	150.000	153.504	-2.3	100	0.00
75 TMP Naphthalene	150.000	168.028	-12.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	163.508	-9.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.271	0.278	-2.6	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.924	-2.0	100	0.01
5 TMP	Chloromethane	0.949	0.964	-1.6	100	0.01
6 TMP	Vinyl chloride	0.769	0.743	3.4	100	0.02
7 TMP	Bromomethane	0.377	0.358	5.0	100	0.01
8 TMP	Chloroethane	0.323	0.299	7.4	100	0.01
9 TMP	Trichlorofluoromethane	1.197	1.241	-3.7	100	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.040	0.040	0.0	100	0.01
12 TMP	1,1-Dichloroethene	0.288	0.268	6.9	100	0.01
13 TMP	Hexane	0.394	0.388	1.5	100	0.01
14 TMP	Methylene chloride	0.244	0.236	3.3	100	0.01
15 TMP	t-Butyl alcohol (TBA)	0.033	0.033	0.0	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.583	7.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.251	11.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.925	1.2	100	0.01
19 TMP	1,1-Dichloroethane	0.486	0.456	6.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.264	0.0	100	0.01
21 TMP	2,2-Dichloropropane	0.269	0.276	-2.6	100	0.01
22 TMP	cis-1,2-Dichloroethene	0.289	0.271	6.2	100	0.01
23 TMP	Chloroform	0.454	0.446	1.8	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.195	-1.0	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.586	1.3	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.374	19.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.404	0.5	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.344	-0.3	100	0.01
29 TMP	Carbon tetrachloride	0.354	0.372	-5.1	100	0.01
30 S	1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP	Benzene	1.042	0.961	7.8	100	0.01
32 TMP	Trichloroethene	0.326	0.291	10.7	100	0.01
33 TMP	1,2-Dichloropropane	0.269	0.261	3.0	100	0.01
34 TMP	Bromodichloromethane	0.327	0.347	-6.1	100	0.01
35 5	Toluene-d8	1.111	1.139	-2.5	100	0.00
36 TMP	Dibromomethane	0.174	0.175	-0.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.057	-1.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.494	-10.0	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	0.976	10.6	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.570	-8.2	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.311	3.7	100	0.01
43 TMP	2-Hexanone	0.451	0.439	2.7	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.546	4.5	100	0.00
45 TMP Tetrachloroethene	0.446	0.384	13.9	100	0.00
46 TMP Dibromochloromethane	0.434	0.458	-5.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.416	11.3	100	0.01
48 TMP Chlorobenzene	0.931	0.906	2.7	100	0.00
49 TMP Ethylbenzene	1.609	1.466	8.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.333	-1.2	100	0.00
51 TMP m,p-Xylene	0.630	0.571	9.4	100	0.01
52 TMP o-Xylene	0.606	0.564	6.9	100	0.00
53 TMP Styrene	0.906	0.902	0.4	100	0.00
54 TMP Isopropylbenzene	1.367	1.341	1.9	100	0.01
55 TMP Bromoform	0.239	0.259	-8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.887	1.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.188	4.1	100	0.00
59 TMP Bromobenzene	0.814	0.796	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.262	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.730	4.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.567	13.8	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.841	5.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.187	3.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.085	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.445	-0.0	100	0.00
67 TMP sec-Butylbenzene	3.109	3.079	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.638	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.451	-0.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.451	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.363	0.6	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.152	-4.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.982	-8.1	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.500	-2.2	100	0.00
75 TMP Naphthalene	2.138	2.394	-12.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.900	-9.0	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	93512	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	75125	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37469	10.000	ppb	# 0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	25802	10.169	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.70%
30) 1,2-Dichloroethane-d4	4.45	102	5684	10.115	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	101.20%
35) Toluene-d8	6.10	98	107685	10.365	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	103.60%
57) 4-Bromofluorobenzene	8.50	95	33237	9.849	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.50%
Target Compounds						
						Qvalue
2) Ethanol	2.33	45	6738	No Calib		
4) Dichlorodifluoromethane	1.12	85	1768449	208.707	ppb	100
5) Chloromethane	1.26	50	1841805	207.537	ppb	99
6] Vinyl chloride	1.33	62	1412542	196.508	ppb	100
7) Bromomethane	1.58	94	717543	203.682	ppb	94
8] Chloroethane	1.65	64	590194	195.650	ppb	98
9) Trichlorofluoromethane	1.85	101	2389790	213.441	ppb	99
10) 2-Propanol	2.33	45	6738	No Calib		
11) Acetone	2.33	58	387026	1045.511	ppb	100
12] 1,1-Dichloroethene	2.27	96	509995	201.801	ppb	95
13) Hexane	3.16	57	795461	216.023	ppb	97
14) Methylene chloride	2.69	84	450936	197.967	ppb	97
15) t-Butyl alcohol (TBA)	2.82	59	325181	1069.839	ppb	96
16] Methyl t-butyl ether (...)	2.93	73	1104483	188.287	ppb	95
17] trans-1,2-Dichloroethene	2.92	96	476464	200.290	ppb	83
18) Diisopropyl ether (DIPE)	3.35	45	1758837	200.922	ppb	96
19] 1,1-Dichloroethane	3.27	63	858123	188.843	ppb	96
20) Ethyl t-butyl ether (E...)	3.66	87	504533	204.584	ppb	89
21) 2,2-Dichloropropane	3.76	77	502980	200.180	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	508811	188.426	ppb	98
23) Chloroform	4.04	83	845659	199.136	ppb	96
24) 2-Butanone (MEK)	3.78	43	1886824	1047.661	ppb	99
25) t-Amyl methyl ether (T...)	4.61	73	1121350	201.940	ppb	99
26] 1,2-Dichloroethane (EDC)	4.52	62	701866	198.514	ppb	99
27] 1,1,1-Trichloroethane	4.19	97	765438	201.745	ppb	97
28) 1,1-Dichloropropene	4.33	75	656448	204.486	ppb	95
29) Carbon tetrachloride	4.33	117	713361	215.208	ppb	98
31] Benzene	4.50	78	1807901	199.304	ppb	97
32] Trichloroethene	5.05	95	562243	202.115	ppb	# 71
33) 1,2-Dichloropropane	5.24	63	500177	198.582	ppb	100
34) Bromodichloromethane	5.48	83	660622	216.010	ppb	98
36) Dibromomethane	5.34	93	330400	203.605	ppb	93

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

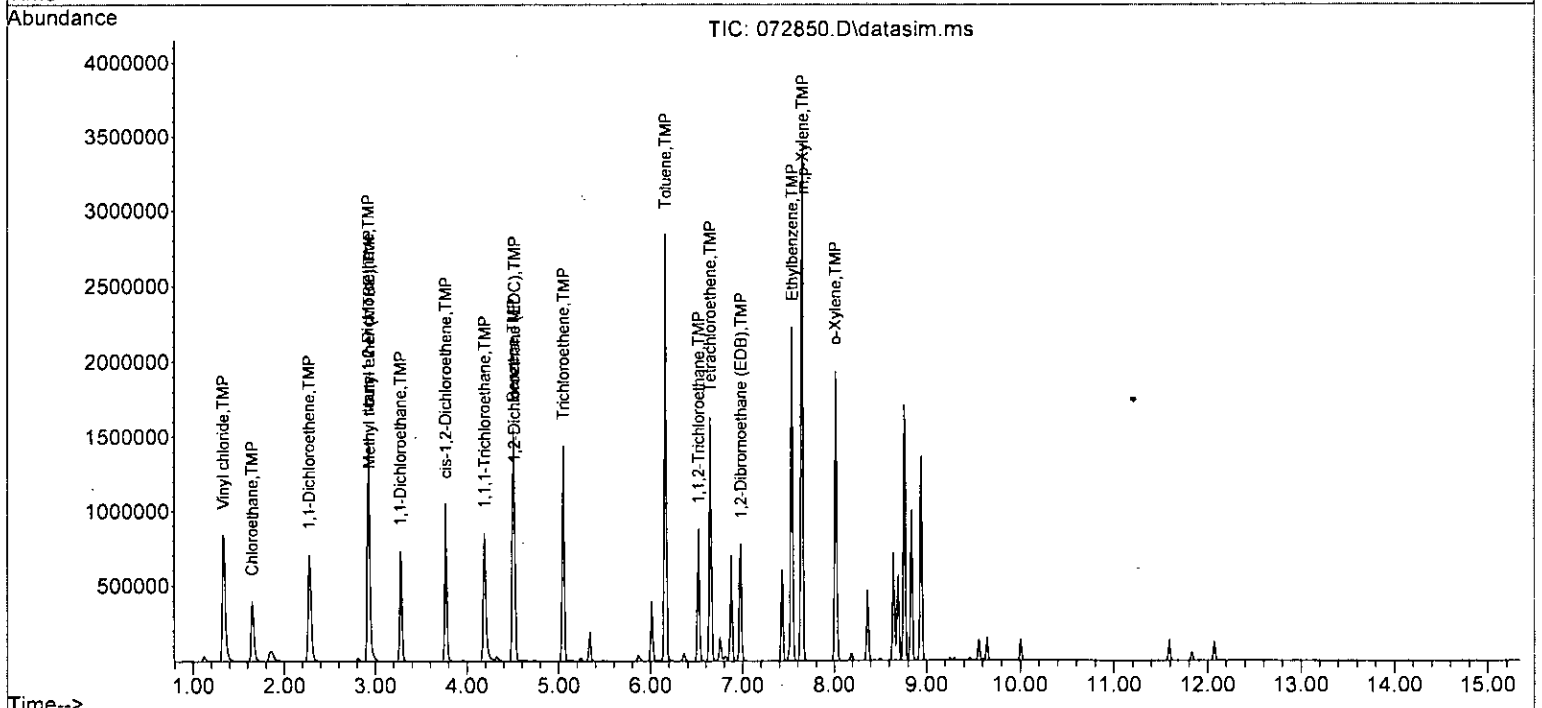
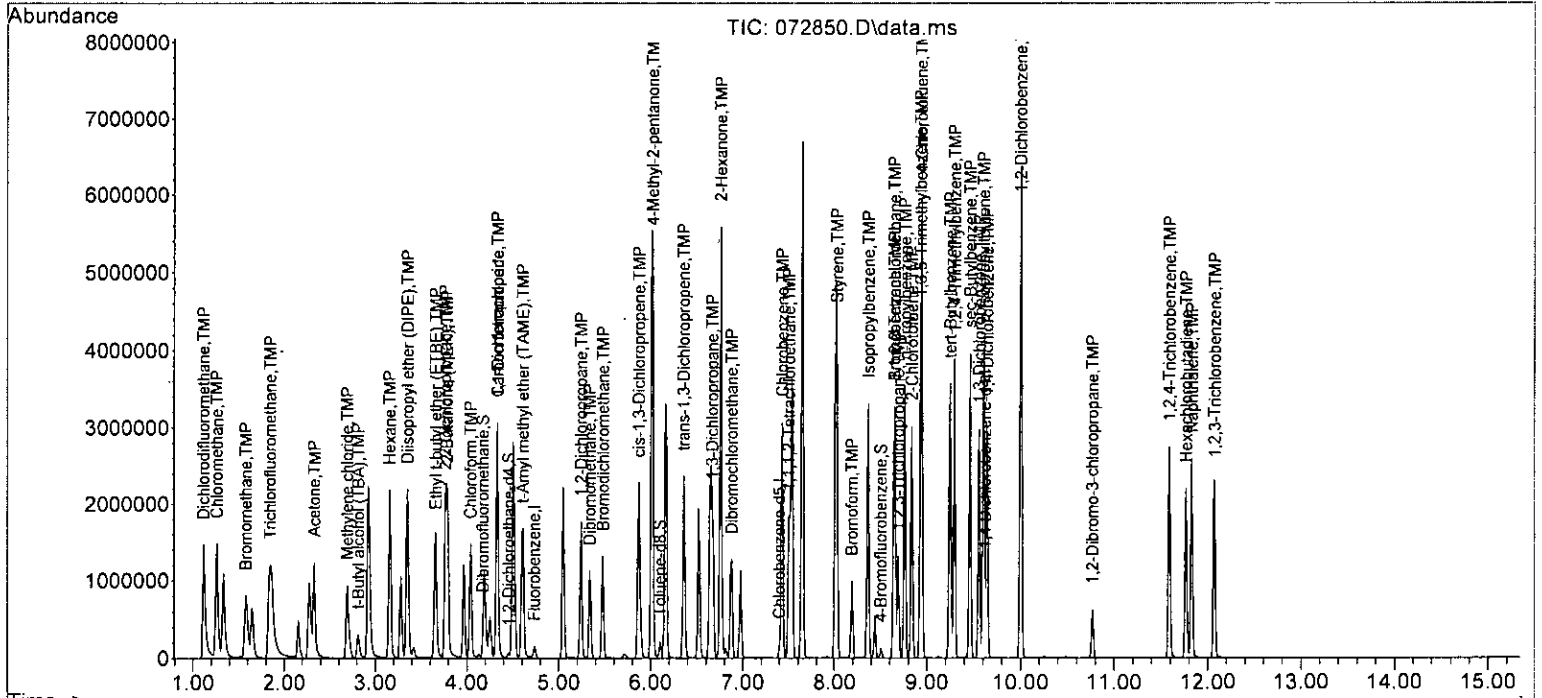
Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	544493	1031.399	ppb	88
38) cis-1,3-Dichloropropene	5.87	75	946841	225.289	ppb	93
40] Toluene	6.16	92	1456723	196.950	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	868376	219.214	ppb	98
42] 1,1,2-Trichloroethane	6.52	83	463442	190.723	ppb #	75
43) 2-Hexanone	6.76	43	3321031	980.640	ppb	97
44) 1,3-Dichloropropane	6.67	76	812401	189.141	ppb	96
45] Tetrachloroethene	6.64	164	580810	198.491	ppb	95
46) Dibromochloromethane	6.88	129	696727	213.476	ppb	93
47] 1,2-Dibromoethane (EDB)	6.98	107	623838	198.029	ppb	93
48) Chlorobenzene	7.43	112	1359784	194.479	ppb	99
49] Ethylbenzene	7.54	91	2160879	194.544	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.50	131	493761	199.715	ppb	99
51] m,p-Xylene	7.65	106	1696167	390.323	ppb #	80
52] o-Xylene	8.01	106	840897	196.361	ppb	100
53) Styrene	8.03	104	1339836	196.754	ppb	98
54) Isopropylbenzene	8.37	105	2019372	196.662	ppb	98
55) Bromoform	8.19	173	396797	221.080	ppb	99
58) n-Propylbenzene	8.76	91	2378719	190.897	ppb	98
59) Bromobenzene	8.65	156	596172	195.369	ppb	99
60) 1,3,5-Trimethylbenzene	8.93	105	1682360	194.300	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	536607	186.581	ppb	100
62) 1,2,3-Trichloropropane	8.69	75	421130	170.853	ppb	99
63) 2-Chlorotoluene	8.84	91	1365486	187.133	ppb	100
64) 4-Chlorotoluene	8.94	91	1624515	192.075	ppb	98
65) tert-Butylbenzene	9.25	119	1553511	196.273	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	1836500	200.559	ppb	99
67) sec-Butylbenzene	9.46	105	2325845	199.689	ppb	97
68) p-Isopropyltoluene	9.61	119	1994900	205.189	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	1092758	202.072	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	1084912	196.239	ppb	96
71) 1,2-Dichlorobenzene	10.00	146	1027022	199.882	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	116583	213.448	ppb	87
73) 1,2,4-Trichlorobenzene	11.59	180	769016	226.125	ppb	98
74) Hexachlorobutadiene	11.77	225	392024	214.145	ppb	100
75) Naphthalene	11.83	128	1826726	228.083	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	691970	223.688	ppb	98

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
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Quant Time: Jul 29 09:23:48 2023  
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 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.169	-1.7	100	0.01
4 TMP Dichlorodifluoromethane	200.000	208.707	-4.4	100	0.00
5 TMP Chloromethane	200.000	207.537	-3.8	100	0.00
6 TMP Vinyl chloride	200.000	196.508	1.7	100	0.01
7 TMP Bromomethane	200.000	203.682	-1.8	100	0.01
8 TMP Chloroethane	200.000	195.650	2.2	100	0.01
9 TMP Trichlorofluoromethane	200.000	213.441	-6.7	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	1000.000	1045.511	-4.6	100	0.00
12 TMP 1,1-Dichloroethene	200.000	201.801	-0.9	100	0.01
13 TMP Hexane	200.000	216.023	-8.0	100	0.01
14 TMP Methylene chloride	200.000	197.967	1.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	1069.839	-7.0	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	200.000	188.287	5.9	100	0.01
17 TMP trans-1,2-Dichloroethene	200.000	200.290	-0.1	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	200.922	-0.5	100	0.01
19 TMP 1,1-Dichloroethane	200.000	188.843	5.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	204.584	-2.3	100	0.01
21 TMP 2,2-Dichloropropane	200.000	200.180	-0.1	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	188.426	5.8	100	0.01
23 TMP Chloroform	200.000	199.136	0.4	100	0.01
24 TMP 2-Butanone (MEK)	1000.000	1047.661	-4.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	201.940	-1.0	100	0.01
26 TMP 1,2-Dichloroethane (EDC)	200.000	198.514	0.7	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	201.745	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	200.000	204.486	-2.2	100	0.01
29 TMP Carbon tetrachloride	200.000	215.208	-7.6	100	0.01
30 S 1,2-Dichloroethane-d4	10.000	10.115	-1.2	100	0.00
31 TMP Benzene	200.000	199.304	0.3	100	0.01
32 TMP Trichloroethene	200.000	202.115	-1.1	100	0.01
33 TMP 1,2-Dichloropropane	200.000	198.582	0.7	100	0.01
34 TMP Bromodichloromethane	200.000	216.010	-8.0	100	0.01
35 S Toluene-d8	10.000	10.365	-3.7	100	0.00
36 TMP Dibromomethane	200.000	203.605	-1.8	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	1031.399	-3.1	100	0.01
38 TMP cis-1,3-Dichloropropene	200.000	225.289	-12.6	100	0.01
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	196.950	1.5	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	219.214	-9.6	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	190.723	4.6	100	0.01
43 TMP 2-Hexanone	1000.000	980.640	1.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	189.141	5.4	100	0.00
45 TMP Tetrachloroethene	200.000	198.491	0.8	100	0.00
46 TMP Dibromochloromethane	200.000	213.476	-6.7	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	198.029	1.0	100	0.01
48 TMP Chlorobenzene	200.000	194.479	2.8	100	0.00
49 TMP Ethylbenzene	200.000	194.544	2.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	199.715	0.1	100	0.00
51 TMP m,p-Xylene	400.000	390.323	2.4	100	0.01
52 TMP o-Xylene	200.000	196.361	1.8	100	0.00
53 TMP Styrene	200.000	196.754	1.6	100	0.00
54 TMP Isopropylbenzene	200.000	196.662	1.7	100	0.01
55 TMP *Bromoform	200.000	221.080	-10.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.849	1.5	100	0.00
58 TMP n-Propylbenzene	200.000	190.897	4.6	100	0.00
59 TMP Bromobenzene	200.000	195.369	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	194.300	2.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	186.581	6.7	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	170.853	14.6	100	0.00
63 TMP 2-Chlorotoluene	200.000	187.133	6.4	100	0.00
64 TMP 4-Chlorotoluene	200.000	192.075	4.0	100	0.00
65 TMP tert-Butylbenzene	200.000	196.273	1.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	200.559	-0.3	100	0.00
67 TMP sec-Butylbenzene	200.000	199.689	0.2	100	0.00
68 TMP p-Isopropyltoluene	200.000	205.189	-2.6	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	202.072	-1.0	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	196.239	1.9	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	199.882	0.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	213.448	-6.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	226.125	-13.1	100	0.00
74 TMP Hexachlorobutadiene	200.000	214.145	-7.1	100	0.00
75 TMP Naphthalene	200.000	228.083	-14.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	223.688	-11.8	100	0.00

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.271	0.276	-1.8	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.946	-4.4	100	0.00
5 TMP	Chloromethane	0.949	0.985	-3.8	100	0.00
6 TMP	Vinyl chloride	0.769	0.755	1.8	100	0.01
7 TMP	Bromomethane	0.377	0.384	-1.9	100	0.01
8 TMP	Chloroethane	0.323	0.316	2.2	100	0.01
9 TMP	Trichlorofluoromethane	1.197	1.278	-6.8	100	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.040	0.041	-2.5	100	0.00
12 TMP	1,1-Dichloroethene	0.288	0.273	5.2	100	0.01
13 TMP	Hexane	0.394	0.425	-7.9	100	0.01
14 TMP	Methylene chloride	0.244	0.241	1.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.033	0.035	-6.1	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.591	5.7	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.255	9.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.940	-0.4	100	0.01
19 TMP	1,1-Dichloroethane	0.486	0.459	5.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.270	-2.3	100	0.01
21 TMP	2,2-Dichloropropane	0.269	0.269	0.0	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.272	5.9	100	0.01
23 TMP	Chloroform	0.454	0.452	0.4	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.202	-4.7	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.600	-1.0	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.375	18.8	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.409	-0.7	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.351	-2.3	100	0.01
29 TMP	Carbon tetrachloride	0.354	0.381	-7.6	100	0.01
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	1.042	0.967	7.2	100	0.01
32 TMP	Trichloroethene	0.326	0.301	7.7	100	0.01
33 TMP	1,2-Dichloropropane	0.269	0.267	0.7	100	0.01
34 TMP	Bromodichloromethane	0.327	0.353	-8.0	100	0.01
35 S	Toluene-d8	1.111	1.152	-3.7	100	0.00
36 TMP	Dibromomethane	0.174	0.177	-1.7	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.058	-3.6	100	0.01
38 TMP	cis-1,3-Dichloropropene	0.449	0.506	-12.7	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	0.970	11.2	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.578	-9.7	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.308	4.6	100	0.01
43 TMP	2-Hexanone	0.451	0.442	2.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.541	5.4	100	0.00
45 TMP Tetrachloroethene	0.446	0.387	13.2	100	0.00
46 TMP Dibromochloromethane	0.434	0.464	-6.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.415	11.5	100	0.01
48 TMP Chlorobenzene	0.931	0.905	2.8	100	0.00
49 TMP Ethylbenzene	1.609	1.438	10.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.329	0.0	100	0.00
51 TMP m,p-Xylene	0.630	0.564	10.5	100	0.01
52 TMP o-Xylene	0.606	0.560	7.6	100	0.00
53 TMP Styrene	0.906	0.892	1.5	100	0.00
54 TMP Isopropylbenzene	1.367	1.344	1.7	100	0.01
55 TMP Bromoform	0.239	0.264	-10.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.887	1.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.174	4.6	100	0.00
59 TMP Bromobenzene	0.814	0.796	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.245	2.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.716	6.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.562	14.6	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.822	6.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.168	3.9	100	0.00
65 TMP tert-Butylbenzene	2.112	2.073	1.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.451	-0.3	100	0.00
67 TMP sec-Butylbenzene	3.109	3.104	0.2	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.662	-2.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.458	-1.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.448	1.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.370	0.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.156	-6.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	1.026	-13.0	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.523	-7.0	100	0.00
75 TMP Naphthalene	2.138	2.438	-14.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.923	-11.7	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	101222	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	75344	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	38427	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	28065	10.218	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.20%	
30) 1,2-Dichloroethane-d4	4.45	102	5797	9.531	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	95.30%	
35) Toluene-d8	6.10	98	114368	10.170	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	101.70%	
57) 4-Bromofluorobenzene	8.50	95	33672	9.729	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	97.30%	
Target Compounds							
2) Ethanol	2.32	45	404	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	86891	9.474	ppb	100	
5) Chloromethane	1.25	50	92549	9.634	ppb	98	
6] Vinyl chloride	1.33	62	75465	9.699	ppb	92	
7) Bromomethane	1.57	94	39796	10.436	ppb	94	
8] Chloroethane	1.64	64	29659	9.083	ppb	99	
9) Trichlorofluoromethane	1.84	101	118885	9.809	ppb	98	
10) 2-Propanol	2.32	45	404	No Calib	#		
11) Acetone	2.32	58	17969	44.844	ppb	92	
12] 1,1-Dichloroethene	2.26	96	31508	11.508	ppb	92	
13) Hexane	3.15	57	40935	10.270	ppb	96	
14) Methylene chloride	2.68	84	24401	9.896	ppb	93	
15) t-Butyl alcohol (TBA)	2.81	59	17682	53.742	ppb	96	
16] Methyl t-butyl ether (...)	2.92	73	65170	10.264	ppb	99	
17] trans-1,2-Dichloroethene	2.91	96	27484	10.658	ppb	91	
18) Diisopropyl ether (DIPE)	3.34	45	99630	10.514	ppb	98	
19] 1,1-Dichloroethane	3.27	63	49141	9.990	ppb	98	
20) Ethyl t-butyl ether (E...)	3.65	87	28485	10.671	ppb	90	
21) 2,2-Dichloropropane	3.76	77	26669	9.805	ppb	92	
22] cis-1,2-Dichloroethene	3.77	96	28767	9.842	ppb	94	
23) Chloroform	4.03	83	45205	9.834	ppb	100	
24) 2-Butanone (MEK)	3.78	43	102892	52.779	ppb	100	
25) t-Amyl methyl ether (T...)	4.60	73	62746	10.439	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.52	62	40452	10.539	ppb	98	
27] 1,1,1-Trichloroethane	4.19	97	40457	9.851	ppb	98	
28) 1,1-Dichloropropene	4.32	75	34061	9.802	ppb	95	
29) Carbon tetrachloride	4.32	117	36295	10.116	ppb	97	
31] Benzene	4.49	78	102323	10.410	ppb	89	
32] Trichloroethene	5.04	95	32036	10.626	ppb	98	
33) 1,2-Dichloropropane	5.23	63	27356	10.034	ppb	99	
34) Bromodichloromethane	5.47	83	33541	10.132	ppb	94	
36) Dibromomethane	5.34	93	17331	9.867	ppb	97	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

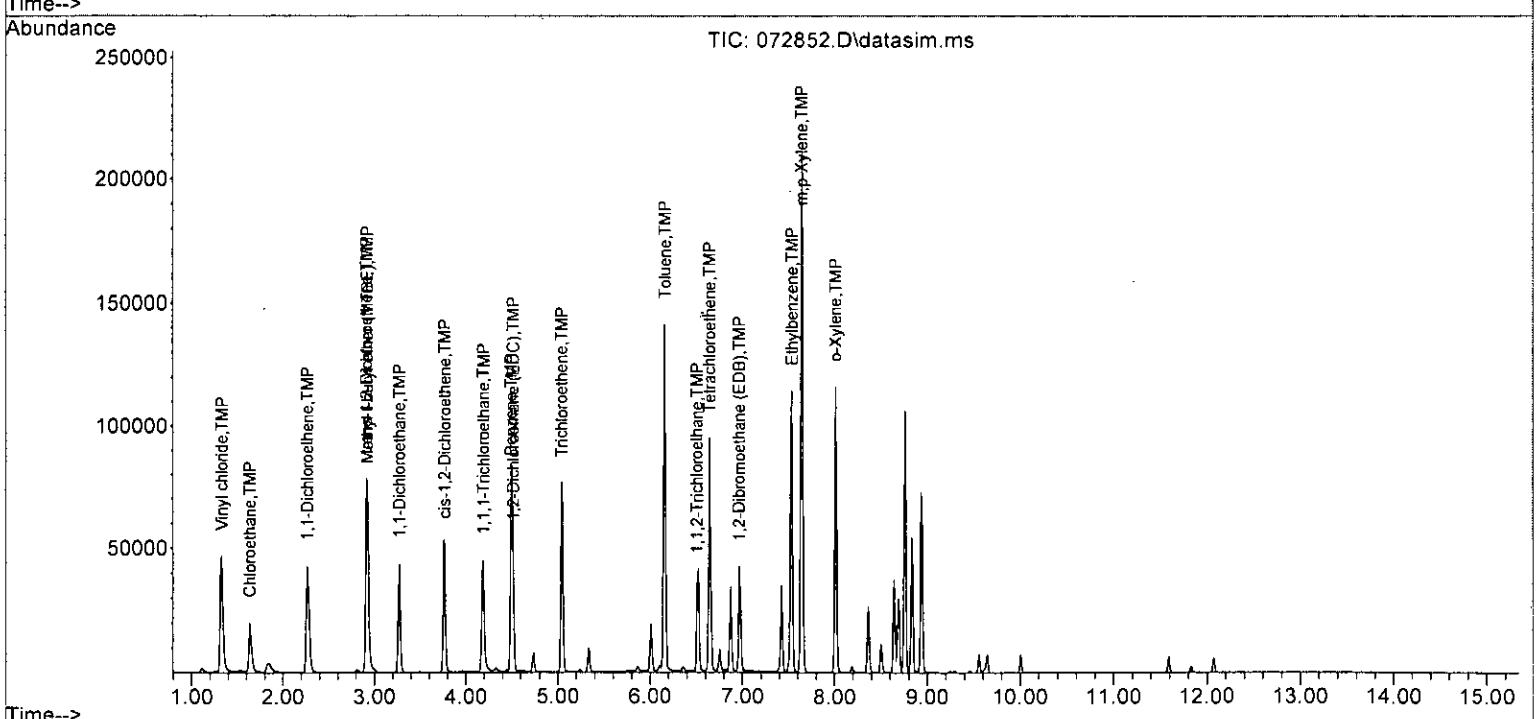
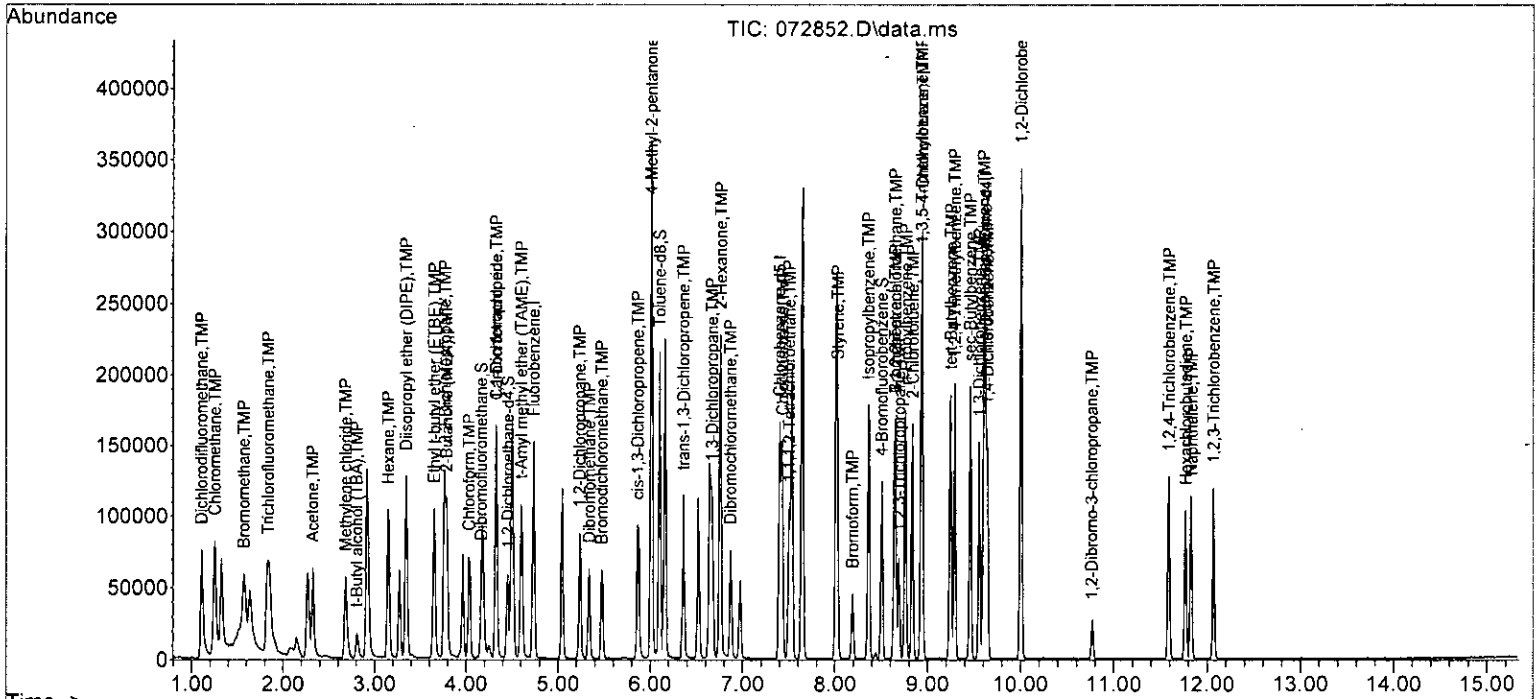
Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	29384	51.421	ppb	93
38) cis-1,3-Dichloropropene	5.86	75	45943	10.099	ppb	97
40] Toluene	6.16	92	79119	10.650	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	41028	10.327	ppb	98
42] 1,1,2-Trichloroethane	6.51	83	25190	10.336	ppb	95
43) 2-Hexanone	6.76	43	163505	48.140	ppb	95
44) 1,3-Dichloropropane	6.67	76	45089	10.467	ppb	98
45] Tetrachloroethene	6.64	164	31768	10.805	ppb	97
46) Dibromochloromethane	6.87	129	33864	10.346	ppb	97
47] 1,2-Dibromoethane (EDB)	6.97	107	32974	10.428	ppb	98
48) Chlorobenzene	7.43	112	73237	10.444	ppb	98
49] Ethylbenzene	7.54	91	121389	10.884	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	24952	10.063	ppb	97
51] m,p-Xylene	7.64	106	94788	21.724	ppb	98
52] o-Xylene	8.01	106	45207	10.517	ppb	99
53) Styrene	8.03	104	70398	10.308	ppb	97
54) Isopropylbenzene	8.36	105	111903	10.866	ppb	98
55) Bromoform	8.19	173	18528	10.293	ppb	99
58) n-Propylbenzene	8.76	91	130317	10.197	ppb	98
59) Bromobenzene	8.65	156	30482	9.740	ppb	99
60) 1,3,5-Trimethylbenzene	8.93	105	90357	10.175	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	28844	9.779	ppb	97
62) 1,2,3-Trichloropropane	8.69	75	22729	8.991	ppb	98
63) 2-Chlorotoluene	8.84	91	76398	10.209	ppb	98
64) 4-Chlorotoluene	8.94	91	87475	10.085	ppb	100
65) tert-Butylbenzene	9.25	119	81786	10.075	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	95071	10.124	ppb	100
67) sec-Butylbenzene	9.45	105	118422	9.914	ppb	98
68) p-Isopropyltoluene	9.60	119	101465	10.176	ppb	97
69) 1,3-Dichlorobenzene	9.55	146	56268	10.146	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	53999	9.524	ppb	97
71) 1,2-Dichlorobenzene	10.00	146	53190	10.094	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.76	75	5245	9.363	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	34357	9.851	ppb	98
74) Hexachlorobutadiene	11.77	225	18389	9.795	ppb	97
75) Naphthalene	11.83	128	81878	9.968	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	32139	10.130	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	105	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	10.218	-2.2	104	0.00
4 TMP	Dichlorodifluoromethane	10.000	9.474	5.3	99	0.00
5 TMP	Chloromethane	10.000	9.634	3.7	105	0.00
6 TMP	Vinyl chloride	10.000	9.699	3.0	107	0.01
7 TMP	Bromomethane	10.000	10.436	-4.4	111	0.00
8 TMP	Chloroethane	10.000	9.083	9.2	103	0.00
9 TMP	Trichlorofluoromethane	10.000	9.809	1.9	102	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP	Acetone	50.000	44.844	10.3	102	0.00
12 TMP	1,1-Dichloroethene	10.000	11.508	-15.1	118	0.00
13 TMP	Hexane	10.000	10.270	-2.7	107	0.00
14 TMP	Methylene chloride	10.000	9.896	1.0	103	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	53.742	-7.5	119	0.00
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.264	-2.6	109	0.00
17 TMP	trans-1,2-Dichloroethene	10.000	10.658	-6.6	107	0.00
18 TMP	Diisopropyl ether (DIPE)	10.000	10.514	-5.1	111	0.00
19 TMP	1,1-Dichloroethane	10.000	9.990	0.1	106	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.671	-6.7	111	0.00
21 TMP	2,2-Dichloropropane	10.000	9.805	2.0	107	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	9.842	1.6	105	0.01
23 TMP	Chloroform	10.000	9.834	1.7	104	0.00
24 TMP	2-Butanone (MEK)	50.000	52.779	-5.6	117	0.00
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.439	-4.4	109	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	10.539	-5.4	104	0.00
27 TMP	1,1,1-Trichloroethane	10.000	9.851	1.5	103	0.00
28 TMP	1,1-Dichloropropene	10.000	9.802	2.0	101	0.00
29 TMP	Carbon tetrachloride	10.000	10.116	-1.2	106	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.531	4.7	95	0.00
31 TMP	Benzene	10.000	10.410	-4.1	104	0.00
32 TMP	Trichloroethene	10.000	10.626	-6.3	107	0.00
33 TMP	1,2-Dichloropropane	10.000	10.034	-0.3	107	0.00
34 TMP	Bromodichloromethane	10.000	10.132	-1.3	106	0.00
35 S	Toluene-d8	10.000	10.170	-1.7	106	0.00
36 TMP	Dibromomethane	10.000	9.867	1.3	104	0.00
37 TMP	4-Methyl-2-pentanone	50.000	51.421	-2.8	106	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	10.099	-1.0	106	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	103	0.00
40 TMP	Toluene	10.000	10.650	-6.5	104	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	10.327	-3.3	107	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.336	-3.4	105	0.00
43 TMP	2-Hexanone	50.000	48.140	3.7	99	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.467	-4.7	109	0.00
45 TMP Tetrachloroethene	10.000	10.805	-8.0	105	0.00
46 TMP Dibromochloromethane	10.000	10.346	-3.5	110	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.428	-4.3	105	0.00
48 TMP Chlorobenzene	10.000	10.444	-4.4	107	0.00
49 TMP Ethylbenzene	10.000	10.884	-8.8	105	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.063	-0.6	105	0.00
51 TMP m,p-Xylene	20.000	21.724	-8.6	105	0.00
52 TMP o-Xylene	10.000	10.517	-5.2	104	0.00
53 TMP Styrene	10.000	10.308	-3.1	106	0.00
54 TMP Isopropylbenzene	10.000	10.866	-8.7	112	0.00
55 TMP Bromoform	10.000	10.293	-2.9	114	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	106	0.00
57 S 4-Bromofluorobenzene	10.000	9.729	2.7	105	0.00
58 TMP n-Propylbenzene	10.000	10.197	-2.0	107	0.00
59 TMP Bromobenzene	10.000	9.740	2.6	104	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.175	-1.8	105	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.779	2.2	107	0.00
62 TMP 1,2,3-Trichloropropane	10.000	8.991	10.1	105	0.00
63 TMP 2-Chlorotoluene	10.000	10.209	-2.1	106	0.00
64 TMP 4-Chlorotoluene	10.000	10.085	-0.9	106	0.00
65 TMP tert-Butylbenzene	10.000	10.075	-0.7	107	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.124	-1.2	108	0.00
67 TMP sec-Butylbenzene	10.000	9.914	0.9	105	0.00
68 TMP p-Isopropyltoluene	10.000	10.176	-1.8	107	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.146	-1.5	108	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.524	4.8	104	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.094	-0.9	108	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.363	6.4	113	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.851	1.5	109	0.00
74 TMP Hexachlorobutadiene	10.000	9.795	2.1	103	0.00
75 TMP Naphthalene	10.000	9.968	0.3	113	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.130	-1.3	111	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	105	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	0.01
3 S Dibromofluoromethane	0.271	0.277	-2.2	104	0.00
4 TMP Dichlorodifluoromethane	0.906	0.858	5.3	99	0.00
5 TMP Chloromethane	0.949	0.914	3.7	105	0.00
6 TMP Vinyl chloride	0.769	0.746	3.0	107	0.01
7 TMP Bromomethane	0.377	0.393	-4.2	111	0.00
8 TMP Chloroethane	0.323	0.293	9.3	103	0.00
9 TMP Trichlorofluoromethane	1.197	1.174	1.9	102	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.01
11 TMP Acetone	0.040	0.036	10.0	102	0.00
12 TMP 1,1-Dichloroethene	0.288	0.311	-8.0	118	0.00
13 TMP Hexane	0.394	0.404	-2.5	107	0.00
14 TMP Methylene chloride	0.244	0.241	1.2	103	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.035	-6.1	119	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.644	-2.7	109	0.00
17 TMP trans-1,2-Dichloroethene	0.282	0.272	3.5	107	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	0.984	-5.1	111	0.00
19 TMP 1,1-Dichloroethane	0.486	0.485	0.2	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.281	-6.4	111	0.00
21 TMP 2,2-Dichloropropane	0.269	0.263	2.2	107	0.00
22 TMP cis-1,2-Dichloroethene	0.289	0.284	1.7	105	0.01
23 TMP Chloroform	0.454	0.447	1.5	104	0.00
24 TMP 2-Butanone (MEK)	0.193	0.203	-5.2	117	0.00
25 TMP t-Amyl methyl ether (TAME)	0.594	0.620	-4.4	109	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.400	13.4	104	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.400	1.5	103	0.00
28 TMP 1,1-Dichloropropene	0.343	0.336	2.0	101	0.00
29 TMP Carbon tetrachloride	0.354	0.359	-1.4	106	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	95	0.00
31 TMP Benzene	1.042	1.011	3.0	104	0.00
32 TMP Trichloroethene	0.326	0.316	3.1	107	0.00
33 TMP 1,2-Dichloropropane	0.269	0.270	-0.4	107	0.00
34 TMP Bromodichloromethane	0.327	0.331	-1.2	106	0.00
35 S Toluene-d8	1.111	1.130	-1.7	106	0.00
36 TMP Dibromomethane	0.174	0.171	1.7	104	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.058	-3.6	106	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.454	-1.1	106	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
40 TMP Toluene	1.092	1.050	3.8	104	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.545	-3.4	107	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.334	-3.4	105	0.00
43 TMP 2-Hexanone	0.451	0.434	3.8	99	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.598	-4.5	109	0.00
45 TMP Tetrachloroethene	0.446	0.422	5.4	105	0.00
46 TMP Dibromochloromethane	0.434	0.449	-3.5	110	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.438	6.6	105	0.00
48 TMP Chlorobenzene	0.931	0.972	-4.4	107	0.00
49 TMP Ethylbenzene	1.609	1.611	-0.1	105	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.331	-0.6	105	0.00
51 TMP m,p-Xylene	0.630	0.629	0.2	105	0.00
52 TMP o-Xylene	0.606	0.600	1.0	104	0.00
53 TMP Styrene	0.906	0.934	-3.1	106	0.00
54 TMP Isopropylbenzene	1.367	1.485	-8.6	112	0.00
55 TMP Bromoform	0.239	0.246	-2.9	114	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
57 S 4-Bromofluorobenzene	0.901	0.876	2.8	105	0.00
58 TMP n-Propylbenzene	3.326	3.391	-2.0	107	0.00
59 TMP Bromobenzene	0.814	0.793	2.6	104	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.351	-1.7	105	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.751	2.2	107	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.591	10.2	105	0.00
63 TMP 2-Chlorotoluene	1.947	1.988	-2.1	106	0.00
64 TMP 4-Chlorotoluene	2.257	2.276	-0.8	106	0.00
65 TMP tert-Butylbenzene	2.112	2.128	-0.8	107	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.474	-1.2	108	0.00
67 TMP sec-Butylbenzene	3.109	3.082	0.9	105	0.00
68 TMP p-Isopropyltoluene	2.595	2.640	-1.7	107	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.464	-1.5	108	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.405	4.7	104	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.384	-0.9	108	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.136	6.8	113	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.894	1.5	109	0.00
74 TMP Hexachlorobutadiene	0.489	0.479	2.0	103	0.00
75 TMP Naphthalene	2.138	2.131	0.3	113	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.836	-1.2	111	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0





## Compound List Report GCMS11

Method Path : D:\Methods\Inst11\  
 Method File : 080223vms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Aug 03 09:36:55 2023  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Fluorobenzene	96	4.62	1.000	L	1	A	B
2	T	Ethanol	45	1.95	0.422	A	1	A	B
3	S	Dibromofluoromethane	113	4.07	0.881	A	0	A	B
4	T	Dichlorodifluoromethane	85	1.08	0.233	A	1	A	B
5	T	Chloromethane	50	1.21	0.262	A	1	A	B
6	T	Vinyl chloride	-62	1.28	0.278	A	1	A	B
7	T	Bromomethane	94	1.52	0.330	A	1	A	B
8	T	Chloroethane	-64	1.59	0.344	A	1	A	B
9	T	Trichlorofluoromethane	101	1.77	0.383	A	1	A	B
10	T	2-Propanol	45	2.38	0.515	A	1	A	B
11	T	Acetone	58	2.25	0.486	A	1	A	B
12	T	1,1-Dichloroethene	-96	2.18	0.473	L	2	A	B
13	T	Hexane	57	3.04	0.658	A	2	A	B
14	T	Methylene chloride	84	2.60	0.563	L	2	A	B
15	T	t-Butyl alcohol (TBA)	59	2.72	0.590	A	1	A	B
16	T	Methyl t-butyl ether (MTBE)	-73	2.83	0.613	A	1	A	B
17	T	trans-1,2-Dichloroethene	-96	2.82	0.611	L	2	A	B
18	T	Diisopropyl ether (DIPE)	45	3.24	0.701	A	3	A	B
19	T	1,1-Dichloroethane	-63	3.17	0.687	A	2	A	B
20	T	Ethyl t-butyl ether (ETBE)	87	3.54	0.767	A	3	A	B
21	T	2,2-Dichloropropane	77	3.66	0.792	L	1	A	B
22	T	cis-1,2-Dichloroethene	-96	3.66	0.793	A	2	A	B
23	T	Chloroform	83	3.93	0.851	A	1	A	B
24	T	2-Butanone (MEK)	43	3.69	0.799	A	2	A	B
25	T	t-Amyl methyl ether (TAME)	73	4.48	0.970	A	2	A	B
26	T	1,2-Dichloroethane (EDC)	-62	4.41	0.955	L	1	A	B
27	T	1,1,1-Trichloroethane	-97	4.07	0.881	A	2	A	B
28	T	1,1-Dichloropropene	75	4.21	0.911	A	2	A	B
29	T	Carbon tetrachloride	117	4.21	0.911	A	1	A	B
30	S	1,2-Dichloroethane-d4	102	4.35	0.941	A	1	A	B
31	T	Benzene	-78	4.39	0.950	L	1	A	B
32	T	Trichloroethene	-95	4.92	1.065	L	3	A	B
33	T	1,2-Dichloropropane	63	5.12	1.109	A	1	A	B
34	T	Bromodichloromethane	83	5.37	1.162	A	2	A	B
35	S	Toluene-d8	98	5.97	1.293	A	1	A	B
36	T	Dibromomethane	93	5.22	1.131	A	2	A	B
37	T	4-Methyl-2-pentanone	85	5.90	1.277	A	2	A	B
38	T	cis-1,3-Dichloropropene	75	5.75	1.246	A	2	A	B
39	I	Chlorobenzene-d5	117	7.27	1.000	A	1	A	B
40	T	Toluene	-92	6.03	0.830	L	1	A	B
41	T	trans-1,3-Dichloropropene	75	6.24	0.858	A	2	A	B
42	T	1,1,2-Trichloroethane	-83	6.40	0.881	A	2	A	B
43	T	2-Hexanone	43	6.63	0.913	A	3	A	B
44	T	1,3-Dichloropropane	76	6.55	0.902	A	1	A	B
45	T	Tetrachloroethene	-164	6.51	0.896	L	3	A	B
46	T	Dibromochloromethane	129	6.75	0.929	A	1	A	B
47	T	1,2-Dibromoethane (EDB)	-107	6.84	0.942	L	2	A	B
48	T	Chlorobenzene	112	7.30	1.004	A	2	A	B
49	T	Ethylbenzene	-91	7.39	1.018	L	1	A	B
50	T	1,1,1,2-Tetrachloroethane	131	7.38	1.015	A	2	A	B
51	T	m,p-Xylene	-106	7.50	1.033	L	1	A	B
52	T	o-Xylene	-106	7.87	1.084	L	1	A	B
53	T	Styrene	104	7.89	1.086	A	1	A	B
54	T	Isopropylbenzene	105	8.23	1.132	A	1	A	B
55	T	Bromoform	173	8.06	1.110	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.47	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.37	0.883	A	2	A	B
58	T	n-Propylbenzene	91	8.61	0.909	A	1	A	B
59	T	Bromobenzene	156	8.50	0.898	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.79	0.928	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.53	0.900	A	2	A	B
62	T	1,2,3-Trichloropropane	-75	8.56	0.904	A	3	A	R
63	T	2-Chlorotoluene	91	8.69	0.918	A	1	A	B
64	T	4-Chlorotoluene	91	8.80	0.928	A	1	A	B
65	T	tert-Butylbenzene	119	9.10	0.961	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.15	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.31	0.983	A	1	A	B
68	T	p-Isopropyltoluene	119	9.46	0.998	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.41	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.50	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	9.86	1.041	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.63	1.122	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.43	1.207	A	2	A	B
74	T	Hexachlorobutadiene	225	11.60	1.225	A	2	A	B
75	T	Naphthalene	128	11.68	1.232	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	11.91	1.257	A	2	A	B

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

#Qual = number of qualifiers

A/H = Area or Height

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

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080223vms11.M Thu Aug 03 10:26:18 2023

Calibration Status Report GCMS11

Method Path : D:\Methods\Inst11\  
 Method File : 080223vms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Aug 03 09:36:55 2023  
 Response Via : Initial Calibration

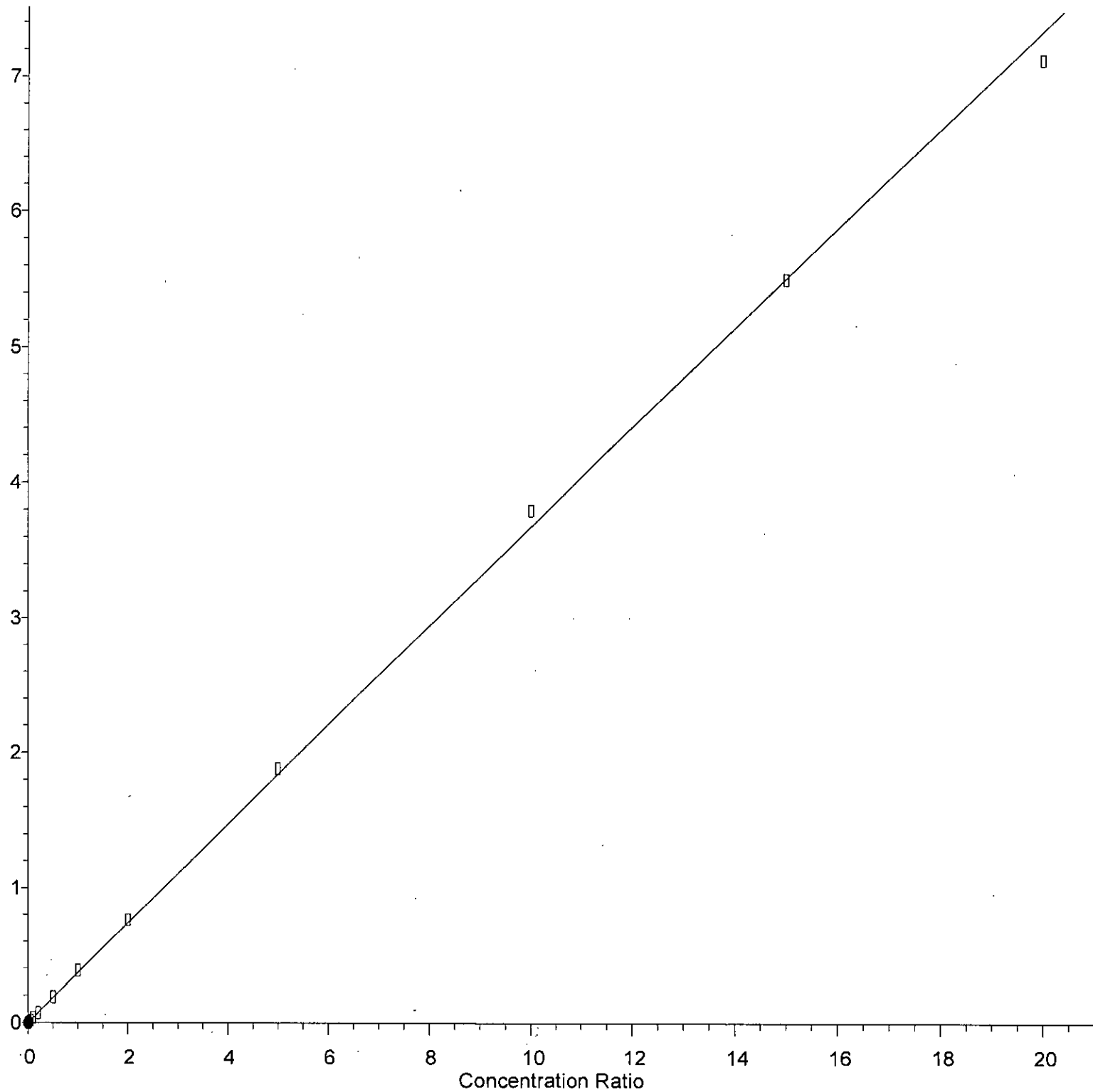
#	ID	Conc	ISTD Conc	Path\File
1	0.02	0	10	D:\Proc_GCMS11\08-02-23\080220.D
2	0.04	0	10	D:\Proc_GCMS11\08-02-23\080221.D
3	0.1	0	10	D:\Proc_GCMS11\08-02-23\080222.D
4	0.2	0	10	D:\Proc_GCMS11\08-02-23\080223.D
5	0.5	1	10	D:\Proc_GCMS11\08-02-23\080224.D
6	1	1	10	D:\Proc_GCMS11\08-02-23\080225.D
7	2	2	10	D:\Proc_GCMS11\08-02-23\080226.D
8	5	5	10	D:\Proc_GCMS11\08-02-23\080227.D
9	10	10	10	D:\Proc_GCMS11\08-02-23\080228.D
10	20	20	10	D:\Proc_GCMS11\08-02-23\080229.D
11	50	50	10	D:\Proc_GCMS11\08-02-23\080230.D
12	100	100	10	D:\Proc_GCMS11\08-02-23\080231.D
13	150	150	10	D:\Proc_GCMS11\08-02-23\080232.D
14	200	200	10	D:\Proc_GCMS11\08-02-23\080233.D
15	0.01	-1	10	D:\Proc_GCMS11\08-02-23\080219.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Aug 03 09:36 2023	Aug 03 09:28 2023	02 Aug 2023 04:57 pm
2	0.04	Aug 03 09:36 2023	Aug 03 09:31 2023	02 Aug 2023 05:20 pm
3	0.1	Aug 03 09:36 2023	Aug 03 09:34 2023	02 Aug 2023 05:42 pm
4	0.2	Aug 03 09:36 2023	Aug 03 09:34 2023	02 Aug 2023 06:05 pm
5	0.5	Aug 03 09:36 2023	Aug 03 09:35 2023	02 Aug 2023 06:27 pm
6	1	Aug 03 09:36 2023	Aug 03 09:30 2023	02 Aug 2023 06:50 pm
7	2	Aug 03 09:36 2023	Aug 03 09:30 2023	02 Aug 2023 07:13 pm
8	5	Aug 03 09:36 2023	Aug 03 09:26 2023	02 Aug 2023 07:35 pm
9	10	Aug 03 09:36 2023	Aug 03 09:26 2023	02 Aug 2023 07:58 pm
10	20	Aug 03 09:36 2023	Aug 03 09:26 2023	02 Aug 2023 08:20 pm
11	50	Aug 03 09:36 2023	Aug 03 09:26 2023	02 Aug 2023 08:43 pm
12	100	Aug 03 09:36 2023	Aug 03 09:26 2023	02 Aug 2023 09:05 pm
13	150	Aug 03 09:36 2023	Aug 03 09:26 2023	02 Aug 2023 09:28 pm
14	200	Aug 03 09:36 2023	Aug 03 09:26 2023	02 Aug 2023 09:51 pm
15	0.01	Aug 03 09:36 2023	Aug 03 09:28 2023	02 Aug 2023 04:35 pm

080223vms11.M Thu Aug 03 10:26:23 2023

1,1-Dichloroethene

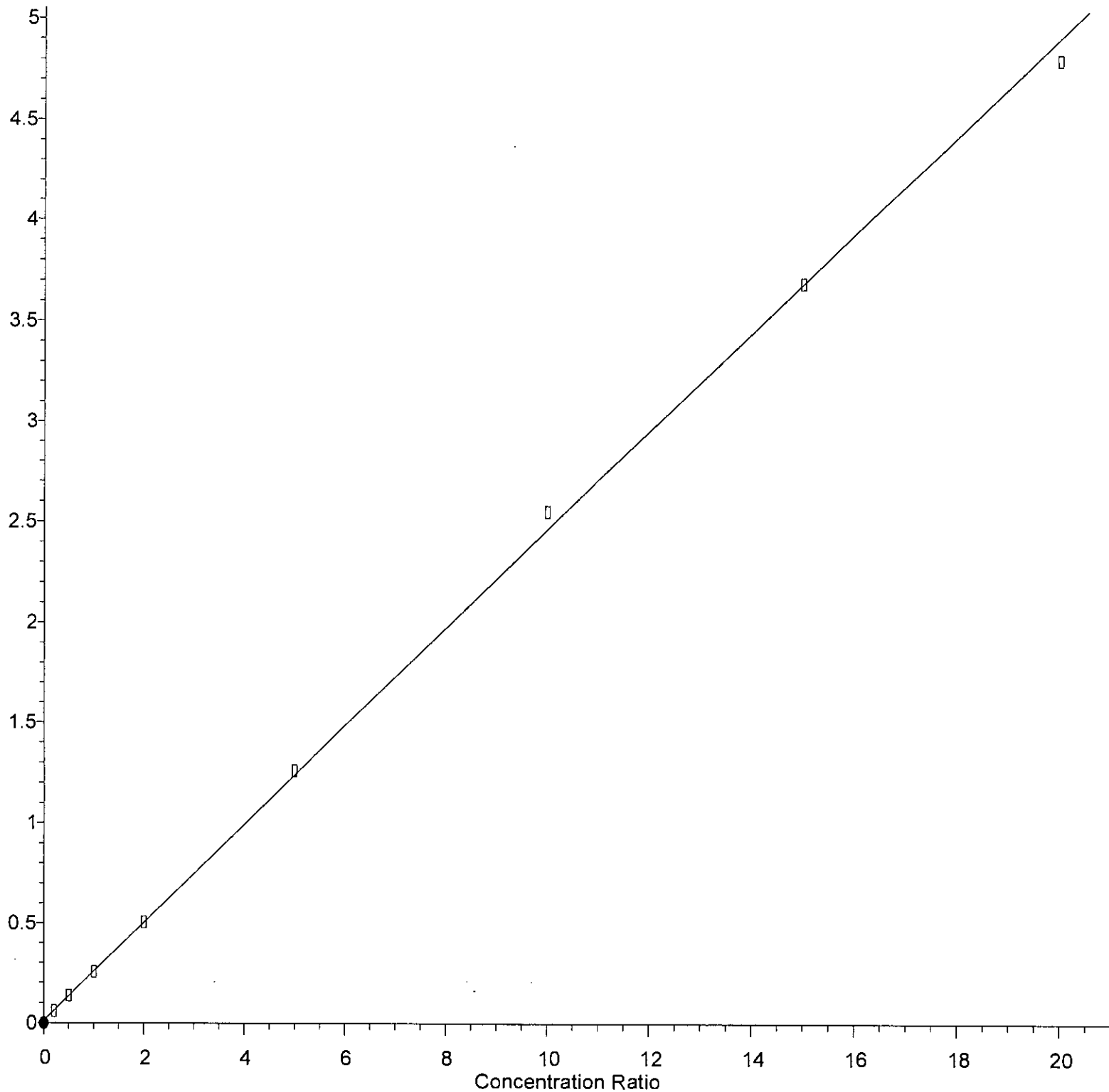
Response Ratio



Response = 3.681e-001 \* Amt + 2.447e-004  
Coef of Det (r^2) = 0.999345 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

Methylene chloride

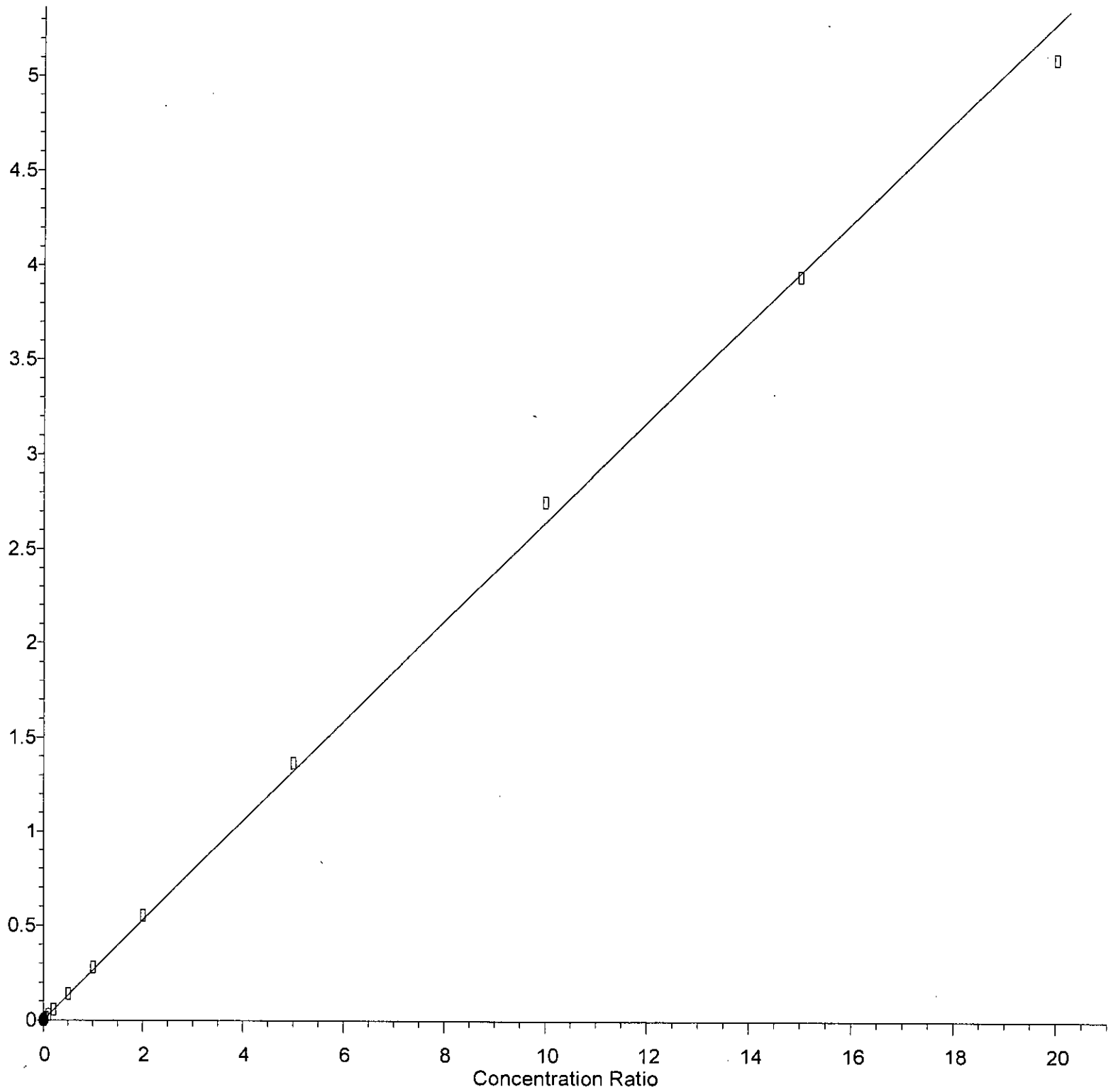
Response Ratio



Response = 2.453e-001 \* Amt + 1.304e-002  
Coef of Det (r^2) = 0.999467 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

trans-1,2-Dichloroethene

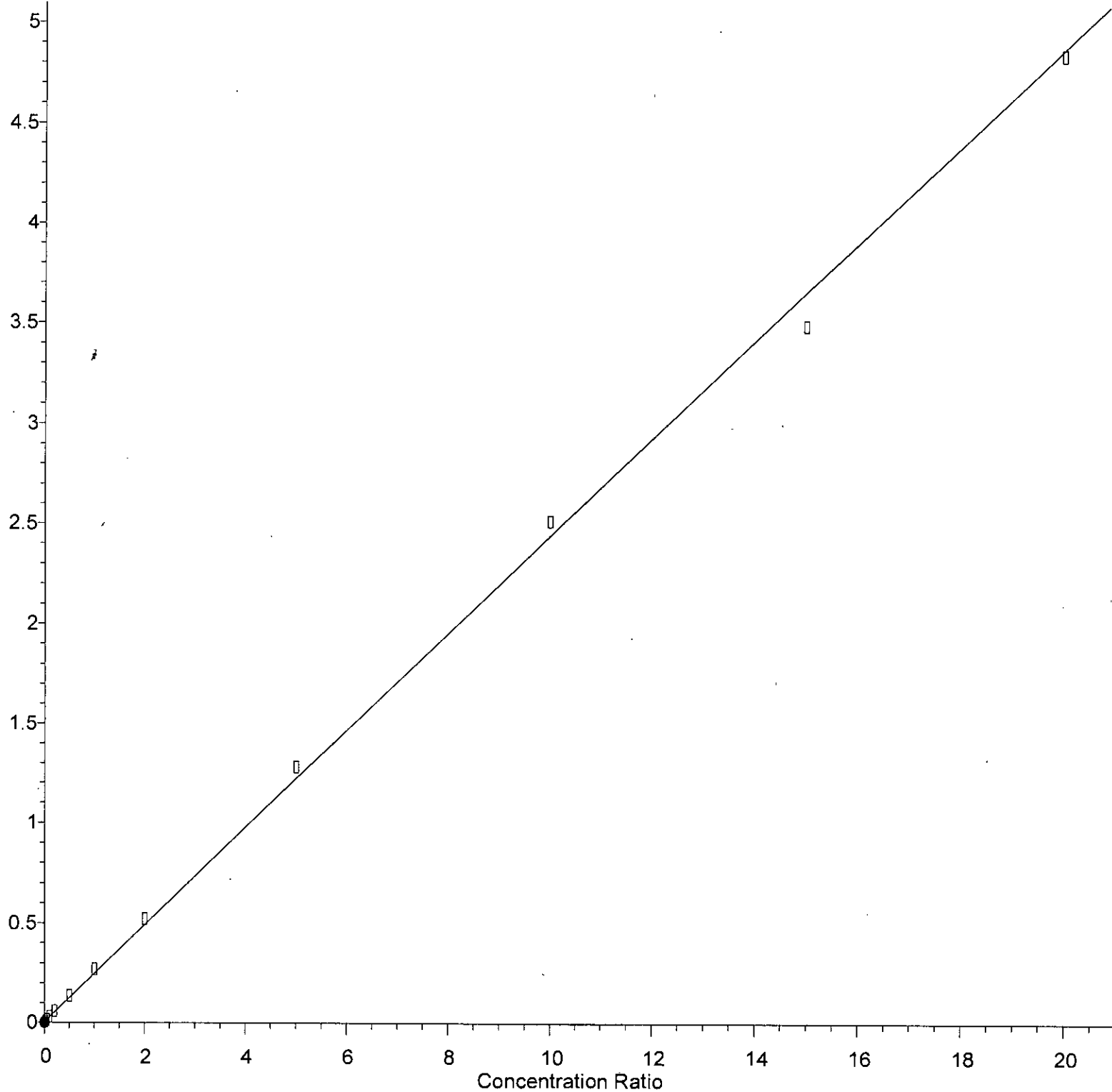
Response Ratio



Response = 2.648e-001 \* Amt + 3.092e-004  
Coef of Det (r^2) = 0.998880 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

# 2,2-Dichloropropane

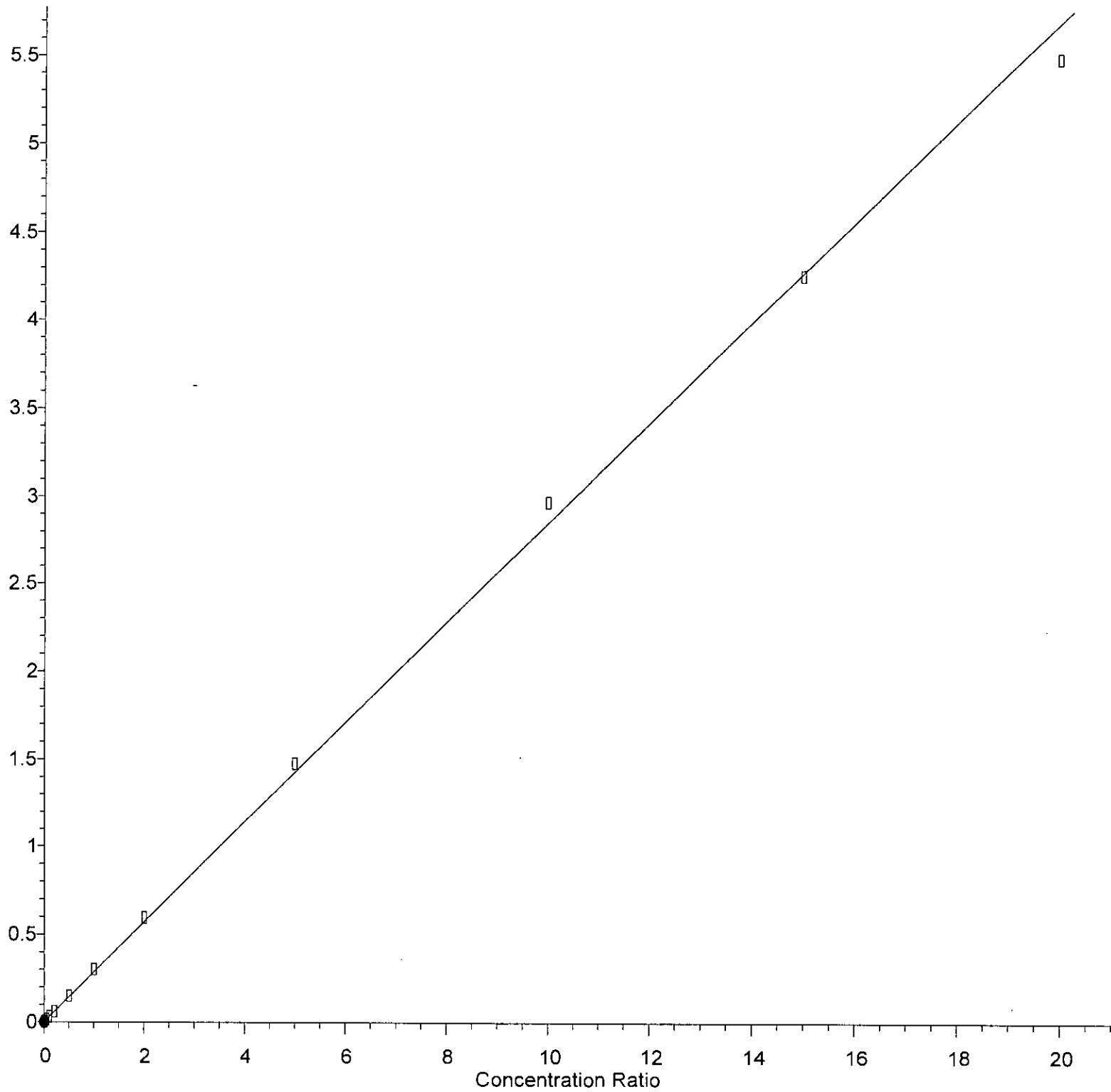
Response Ratio



Response = 2.439e-001 \* Amt + 4.140e-003  
Coef of Det (r^2) = 0.998477 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

1,2-Dichloroethane (EDC)

Response Ratio

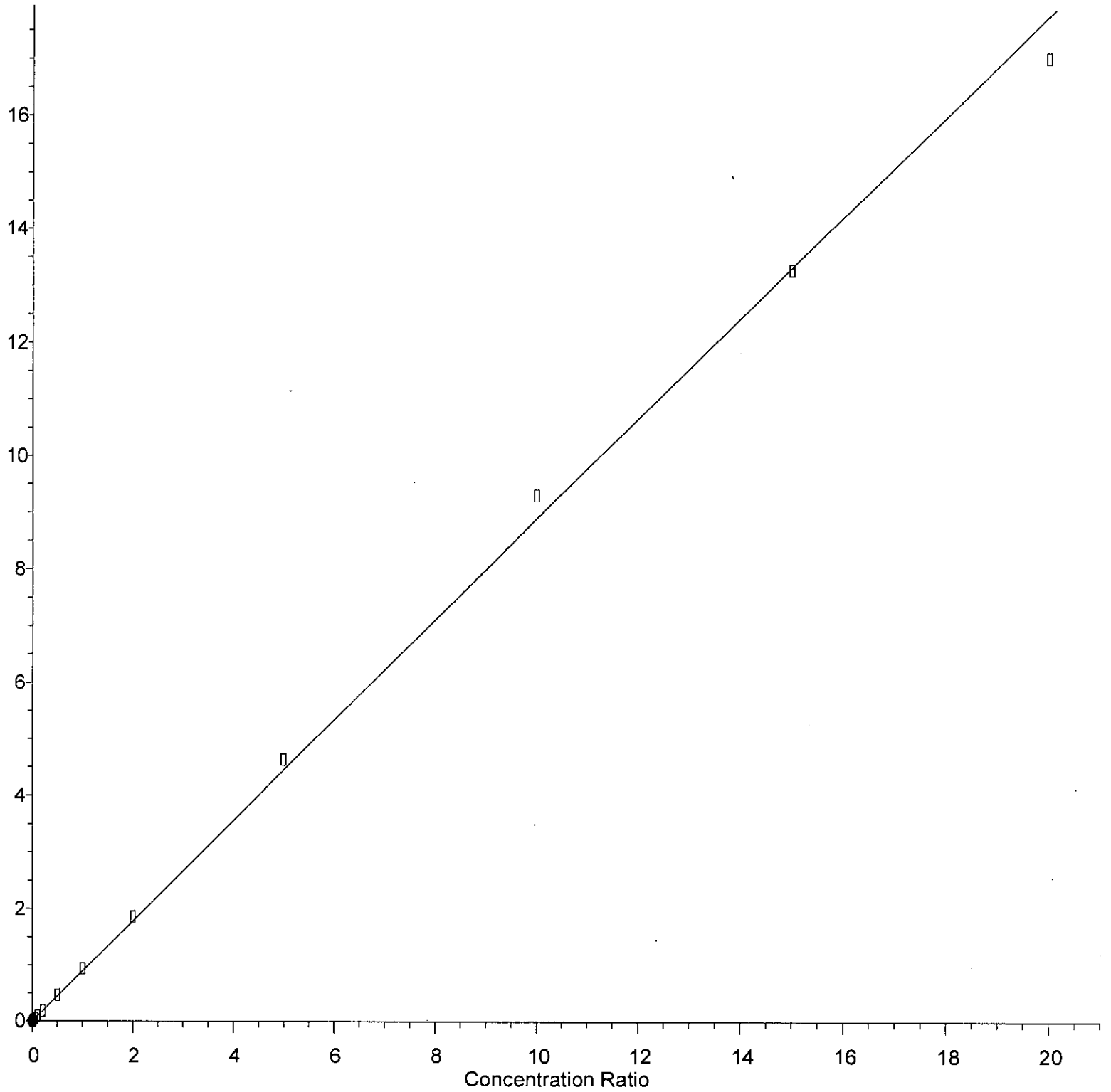


Response = 2.853e-001 \* Amt + 8.501e-004  
Coef of Det (r^2) = 0.998877 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023



# Benzene

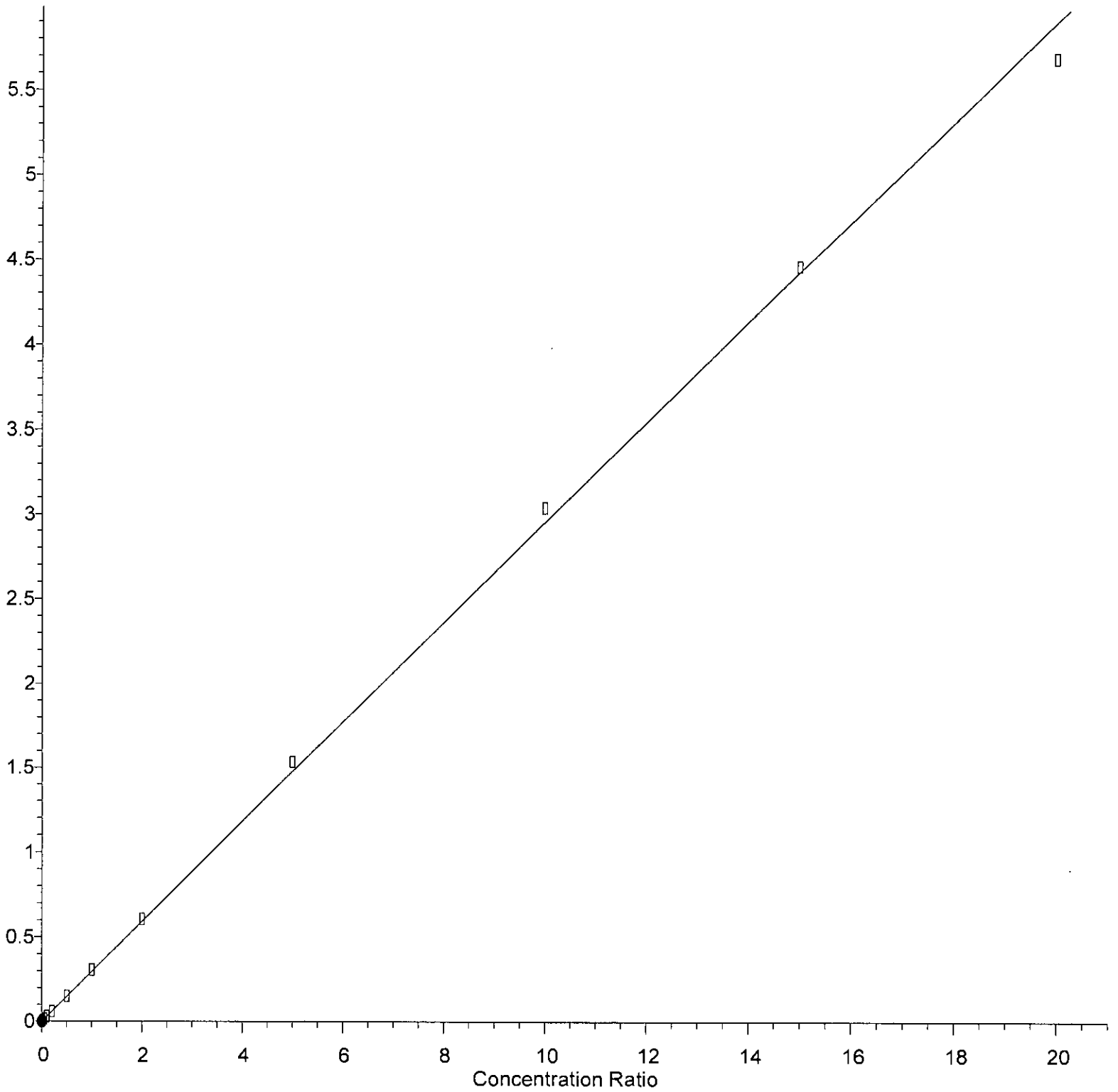
Response Ratio



Response =  $8.898e-001 * Amt + 8.278e-004$   
Coef of Det ( $r^2$ ) = 0.998602 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

# Trichloroethene

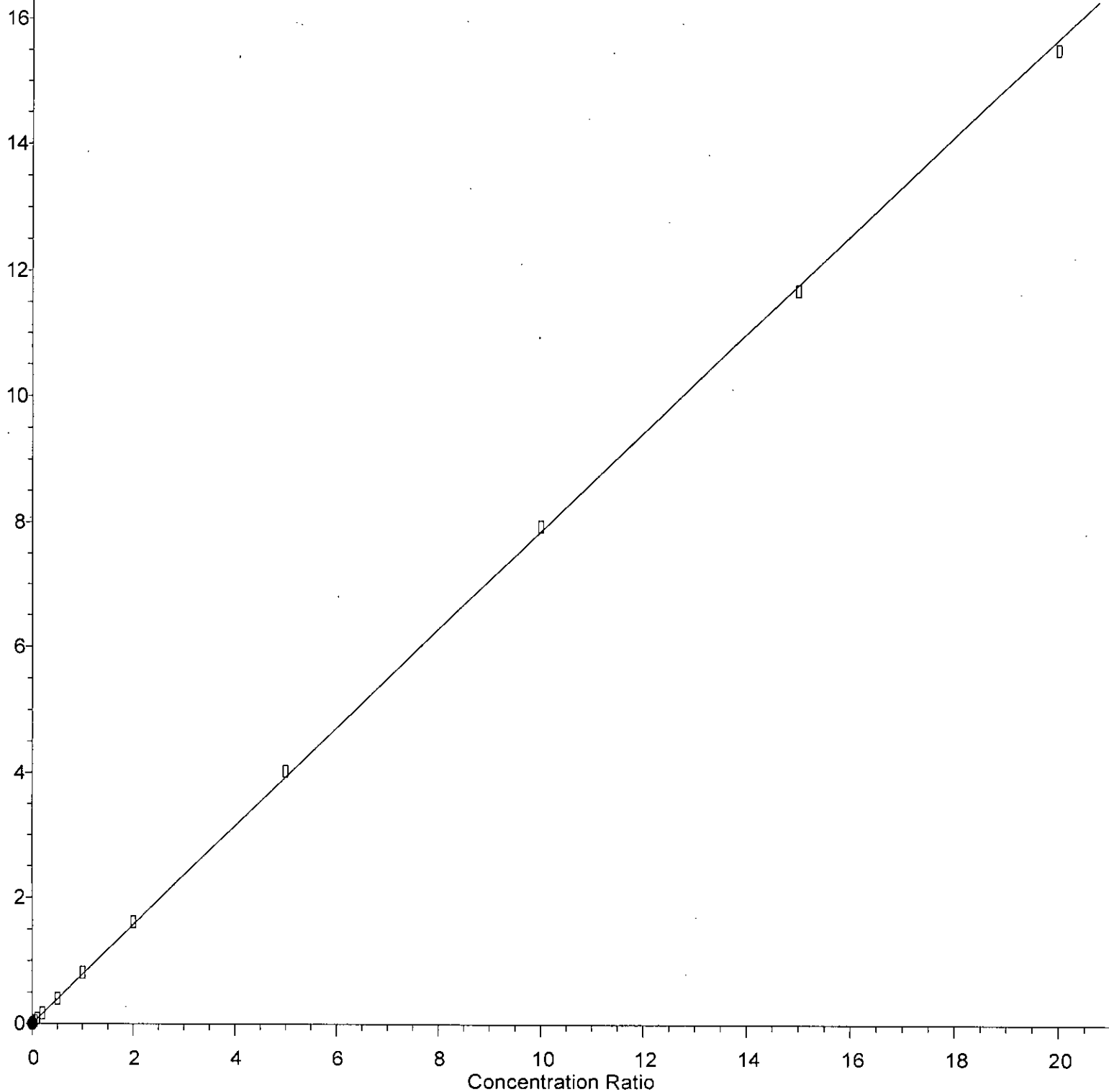
Response Ratio



Response =  $2.957e-001 * Amt + 2.194e-004$   
Coef of Det ( $r^2$ ) = 0.999137 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

# Toluene

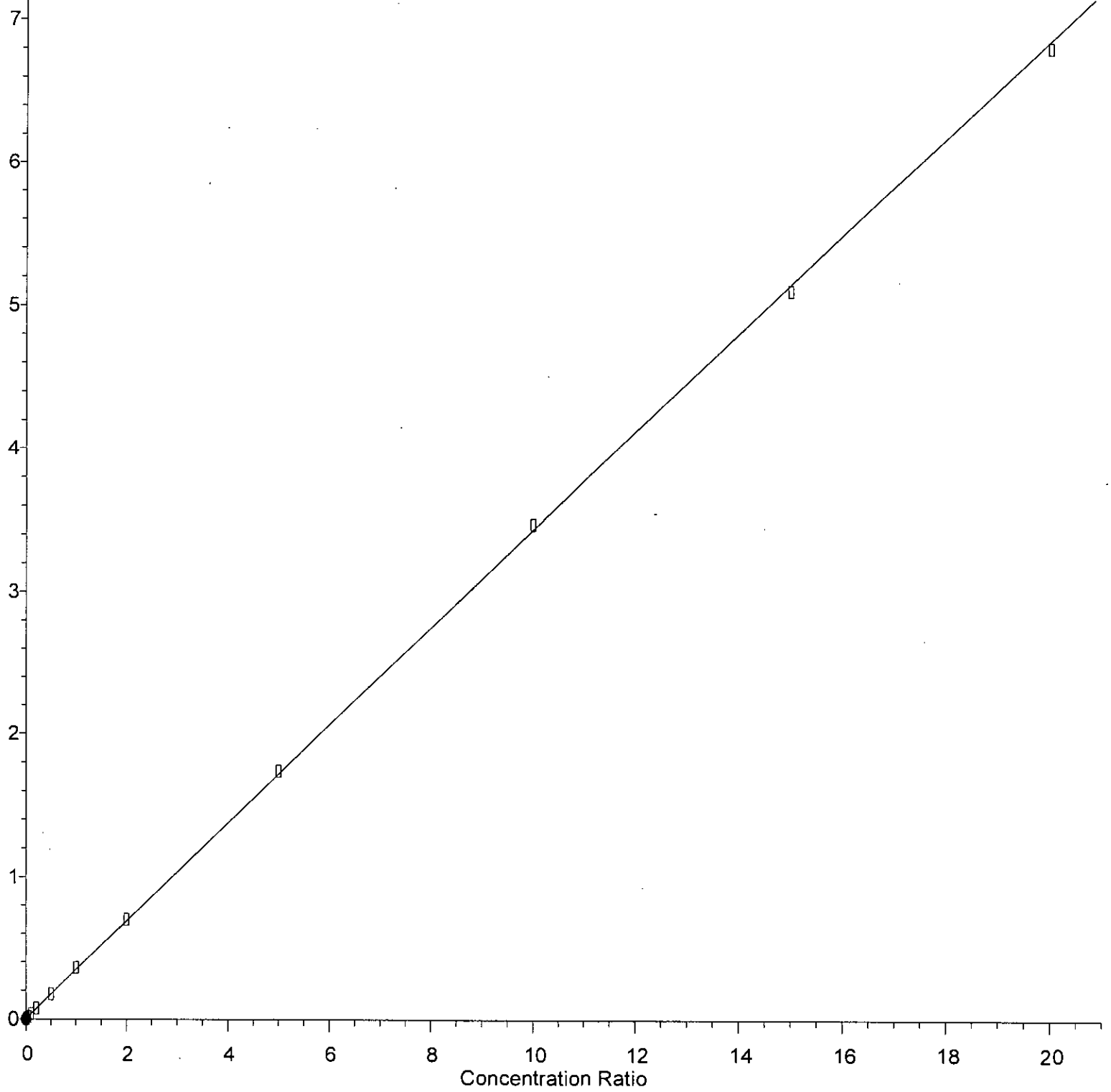
Response Ratio



Response = 7.870e-001 \* Amt + 1.319e-003  
Coef of Det (r^2) = 0.999782 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

Tetrachloroethene

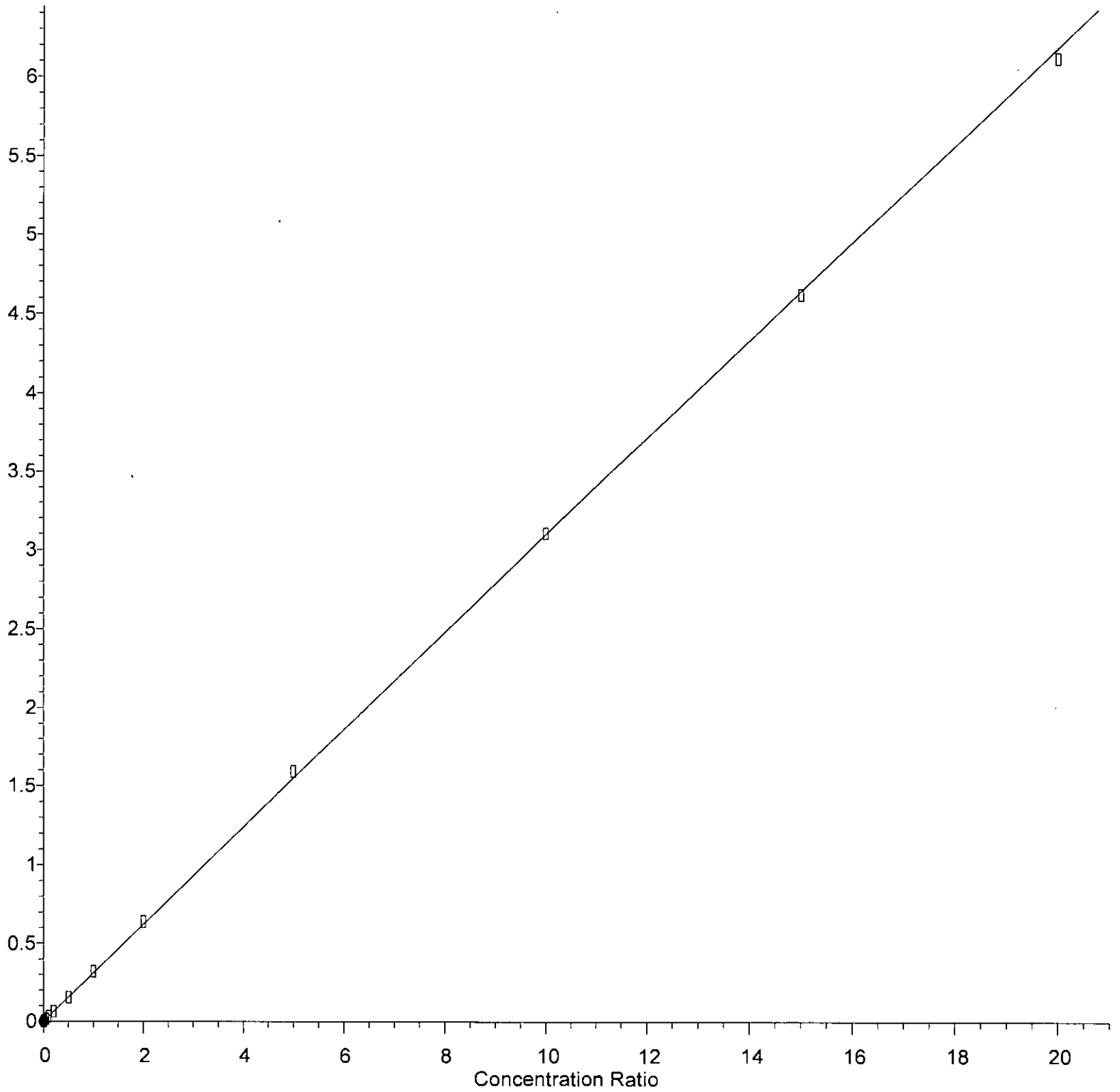
Response Ratio



Response = 3.439e-001 \* Amt + 5.944e-004  
Coef of Det (r^2) = 0.999833 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

1,2-Dibromoethane (EDB)

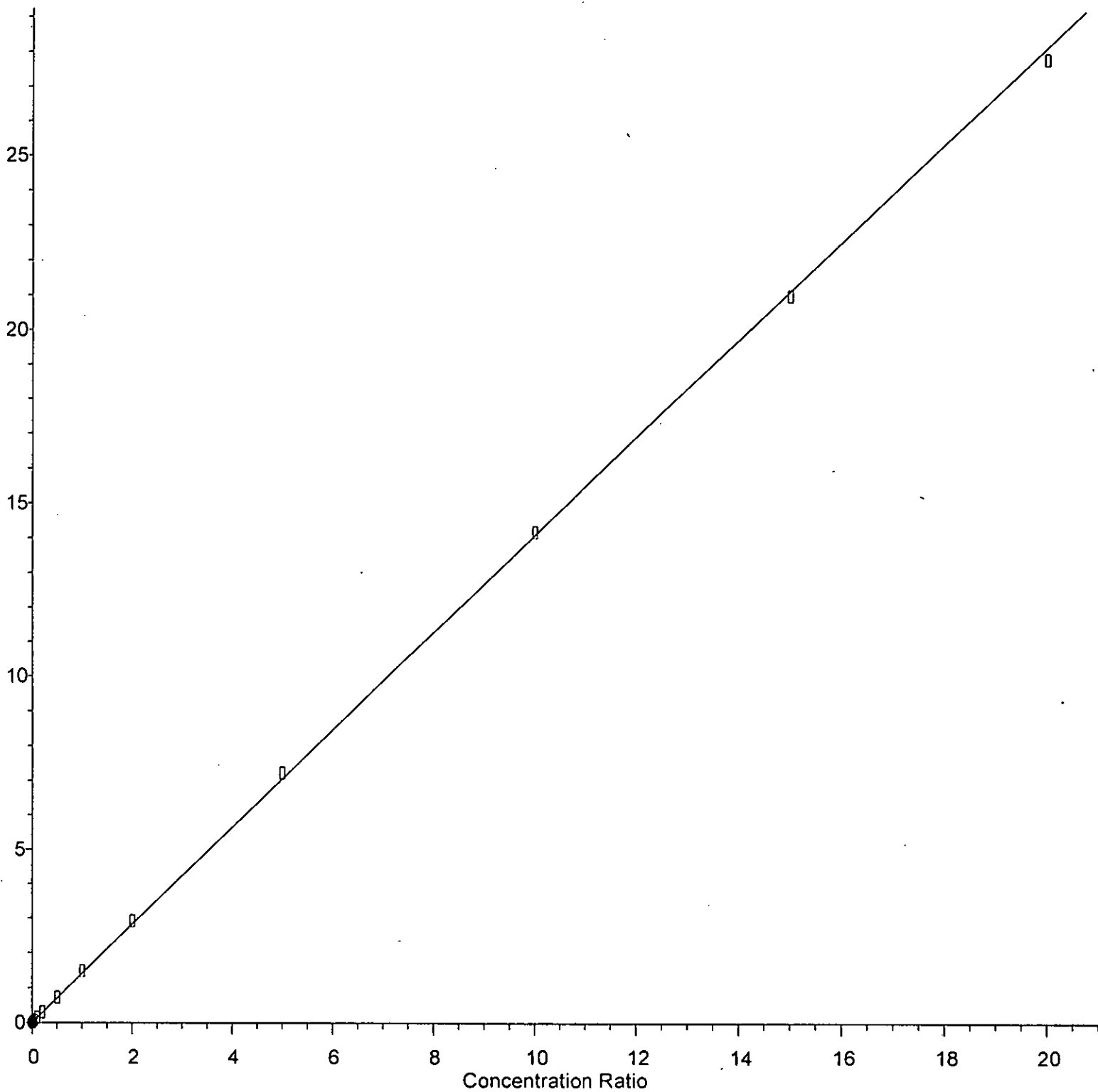
Response Ratio



Response = 3.099e-001 \* Amt + 2.910e-004  
Coef of Det (r^2) = 0.999804 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

Ethylbenzene

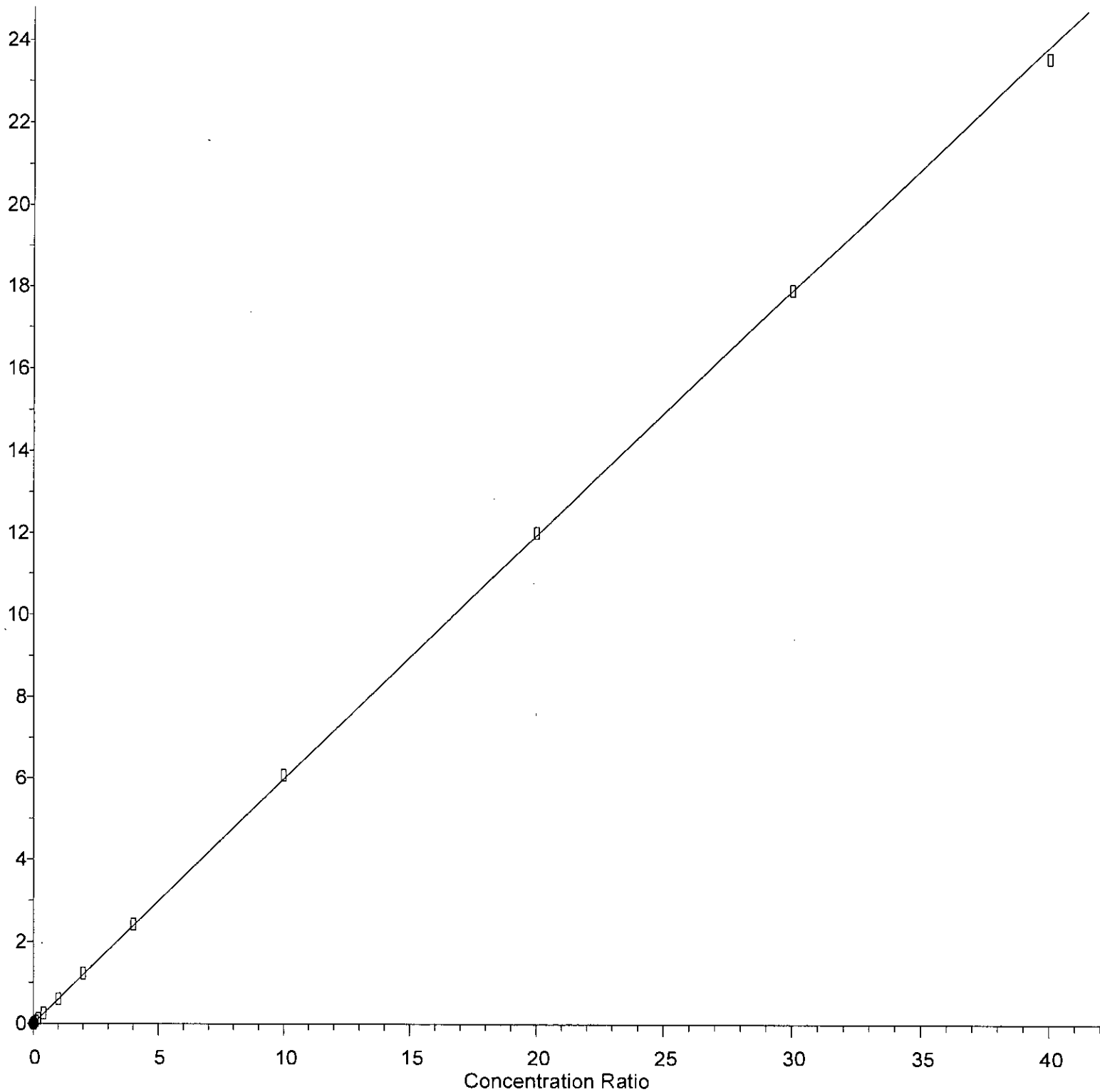
Response Ratio



Response = 1.410e+000 \* Amt + 1.495e-003  
Coef of Det (r^2) = 0.999731 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

m,p-Xylene

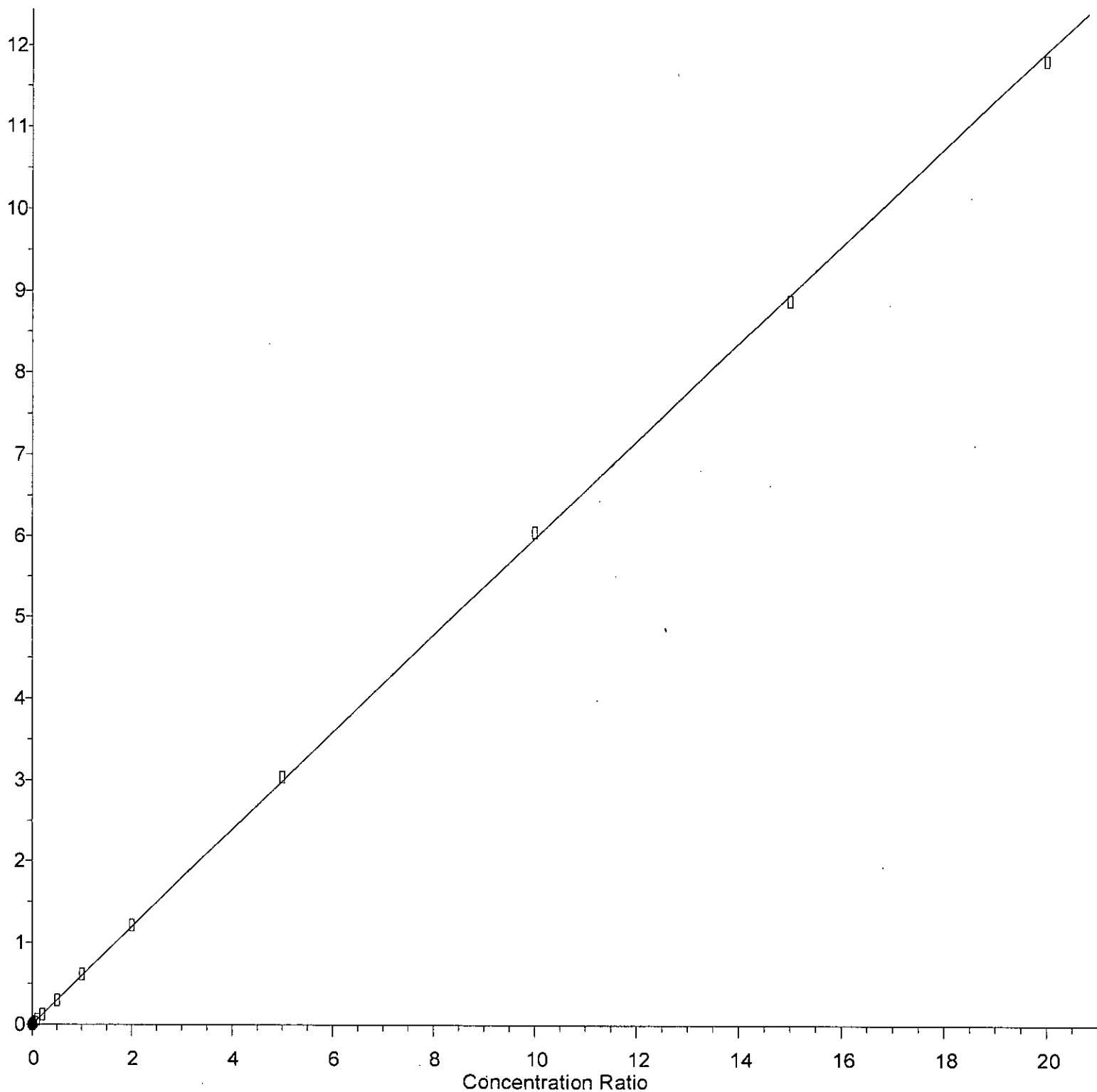
Response Ratio



Response = 5.979e-001 \* Amt + 1.008e-003  
Coef of Det (r^2) = 0.999867 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023

o-Xylene

Response Ratio



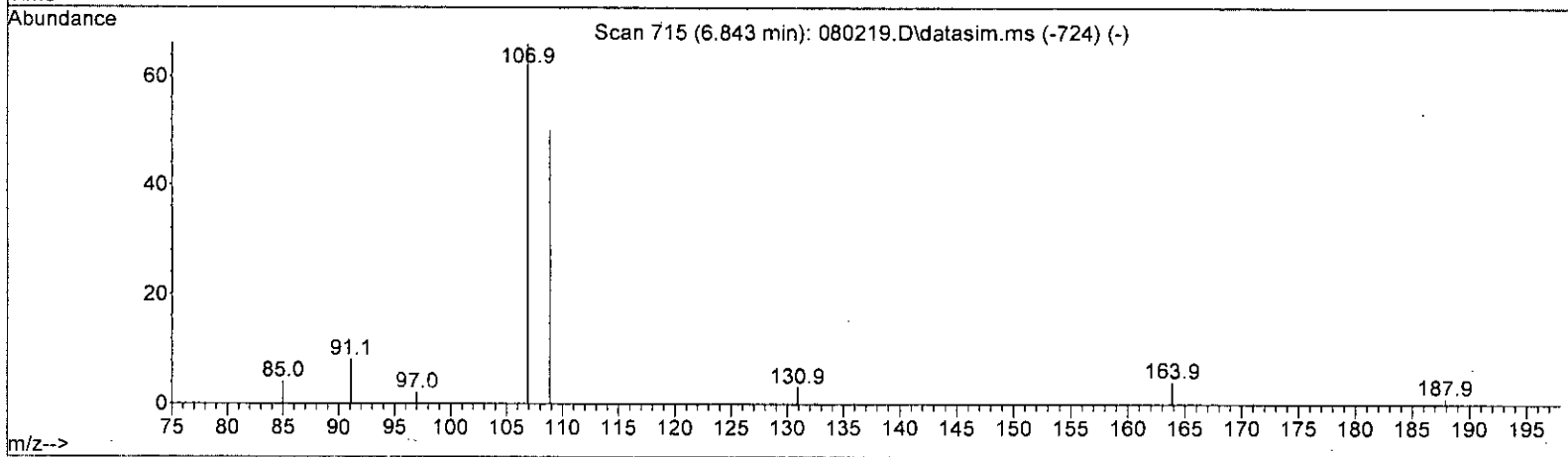
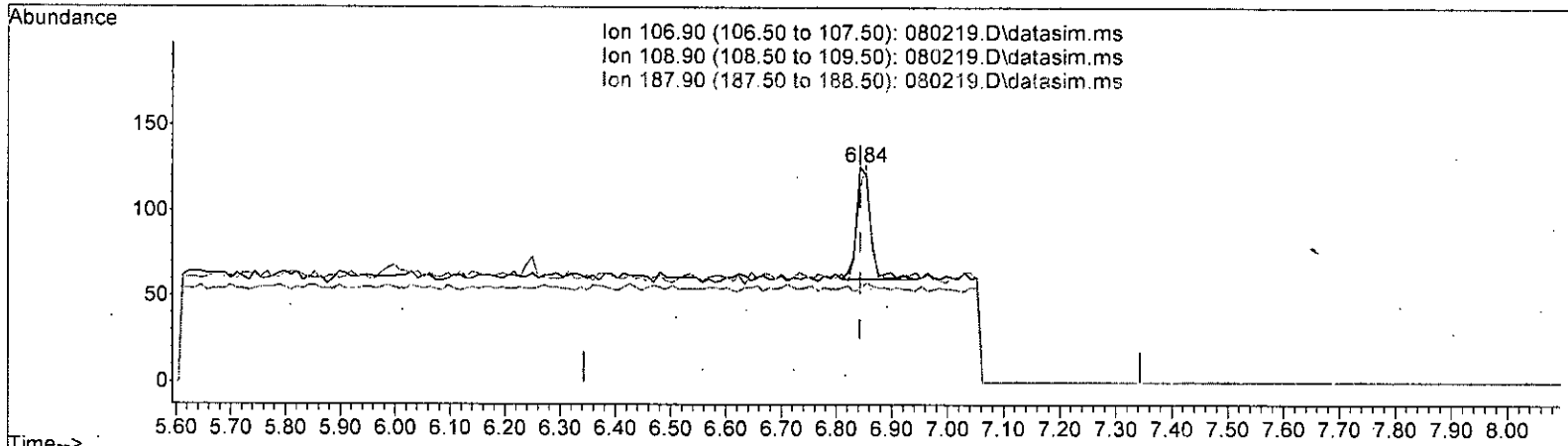
Response = 5.978e-001 \* Amt + 3.723e-004  
Coef of Det (r^2) = 0.999850 Curve Fit: wlr(1/a)  
Method Name: D:\Methods\Inst11\080223vms11.M  
Calibration Table Last Updated: Thu Aug 03 10:33:12 2023



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080219.D  
 Acq On : 02 Aug 2023 04:35 pm  
 Operator : LM  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:35 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080219.D\data.ms

(47) 1,2-Dibromoethane (EDB) (TMP)

6.843min (-0.000) 0.009 ppb

response 117

Ion	Exp%	Act%
106.90	100.00	100.00
108.90	92.30	77.27
187.90	3.00	1.52
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080219.D  
 Acq On : 02 Aug 2023 04:35 pm  
 Operator : LM  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
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Quant Time: Aug 03 09:53:35 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	90	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.00
3 S	Dibromofluoromethane	10.000	10.436	-4.4	96	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.21#
6 TMP	Vinyl chloride	-1.000	0.000	0.0	0	-1.28#
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.52#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	-1.000	0.007	0.0	0	0.02
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.25#
12 TMP	1,1-Dichloroethene	-1.000	0.008	0.0	0	0.02
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.04#
14 TMP	Methylene chloride	-1.000	-0.176	0.0	0	0.00
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.72#
16 TMP	Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-2.83#
17 TMP	trans-1,2-Dichloroethene	-1.000	0.007	0.0	0	0.00
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP	1,1-Dichloroethane	-1.000	0.000	0.0	0	-3.17#
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.008	0.0	0	0.00
21 TMP	2,2-Dichloropropane	-1.000	-0.115	0.0	0	0.00
22 TMP	cis-1,2-Dichloroethene	-1.000	0.000	0.0	0	-3.66#
23 TMP	Chloroform	-1.000	0.000	0.0	0	-3.93#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.69#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.48#
26 TMP	1,2-Dichloroethane (EDC)	-1.000	0.006	0.0	0	0.00
27 TMP	1,1,1-Trichloroethane	-1.000	0.000	0.0	0	-4.07#
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.21#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S	1,2-Dichloroethane-d4	10.000	10.352	-3.5	95	0.00
31 TMP	Benzene	-1.000	0.006	0.0	0	0.00
32 TMP	Trichloroethene	-1.000	0.000	0.0	0	-4.92#
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.12#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S	Toluene-d8	10.000	9.898	1.0	91	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.22#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.90#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
40 TMP	Toluene	-1.000	0.000	0.0	0	-6.03#
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.24#
42 TMP	1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.40#
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080219.D  
 Acq On : 02 Aug 2023 04:35 pm  
 Operator : LM  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:35 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	-1.000	0.002	0.0	0	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.010	0.009	10.0	104	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	-1.000	0.005	0.0	0	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	-1.000	0.000	0.0	0	-7.50#
52 TMP o-Xylene	-1.000	0.008	0.0	0	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.89#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.06#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	10.000	10.122	-1.2	93	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.61#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.50#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.008	0.0	0	-0.15
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.56#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.69#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.80#
65 TMP tert-Butylbenzene	-1.000	0.010	0.0	0	0.00
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.41#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.005	0.0	0	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.43#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.60#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.91#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080219.D  
 Acq On : 02 Aug 2023 04:35 pm  
 Operator : LM  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:35 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	90	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.287	-6.7	96	0.00
4 TMP Dichlorodifluoromethane	0.697	0.000#	100.0#	0#	-1.08#
5 TMP Chloromethane	0.636	0.000#	100.0#	0#	-1.21#
6 TMP Vinyl chloride	0.524	0.000#	100.0#	0#	-1.28#
7 TMP Bromomethane	0.407	0.000#	100.0#	0#	-1.52#
8 TMP Chloroethane	0.266	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.776	0.000#	100.0#	0#	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.047	0.000#	100.0#	0#	-2.25#
12 TMP 1,1-Dichloroethene	0.351	0.000#	100.0#	0#	0.02
13 TMP Hexane	0.281	0.000#	100.0#	0#	-3.04#
14 TMP Methylene chloride	0.232	0.000#	100.0#	0#	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.000#	100.0#	0#	-2.72#
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.000#	100.0#	0#	-2.83#
17 TMP trans-1,2-Dichloroethene	0.255	0.000#	100.0#	0#	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.348	0.000#	100.0#	0#	-3.17#
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.000#	100.0#	0#	0.00
21 TMP 2,2-Dichloropropane	0.247	0.000#	100.0#	0#	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.000#	100.0#	0#	-3.66#
23 TMP Chloroform	0.384	0.000#	100.0#	0#	-3.93#
24 TMP 2-Butanone (MEK)	0.131	0.000#	100.0#	0#	-3.69#
25 TMP t-Amyl methyl ether (TAME)	0.541	0.000#	100.0#	0#	-4.48#
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.000#	100.0#	0#	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.000#	100.0#	0#	-4.07#
28 TMP 1,1-Dichloropropene	0.286	0.000#	100.0#	0#	-4.21#
29 TMP Carbon tetrachloride	0.317	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.063	0.065	-3.2	95	0.00
31 TMP Benzene	0.840	0.000#	100.0#	0#	0.00
32 TMP Trichloroethene	0.274	0.000#	100.0#	0#	-4.92#
33 TMP 1,2-Dichloropropane	0.192	0.000#	100.0#	0#	-5.12#
34 TMP Bromodichloromethane	0.265	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.932	0.930	0.2	91	0.00
36 TMP Dibromomethane	0.149	0.000#	100.0#	0#	-5.22#
37 TMP 4-Methyl-2-pentanone	0.042	0.000#	100.0#	0#	-5.90#
38 TMP cis-1,3-Dichloropropene	0.310	0.000#	100.0#	0#	-5.75#
39 I Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
40 TMP Toluene	0.774	0.000#	100.0#	0#	-6.03#
41 TMP trans-1,3-Dichloropropene	0.354	0.000#	100.0#	0#	-6.24#
42 TMP 1,1,2-Trichloroethane	0.216	0.000#	100.0#	0#	-6.40#
43 TMP 2-Hexanone	0.210	0.000#	100.0#	0#	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080219.D  
 Acq On : 02 Aug 2023 04:35 pm  
 Operator : LM  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:35 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.329	0.000#	100.0#	0#	0.00
46 TMP Dibromochloromethane	0.305	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.578	-84.1#	104	0.00
48 TMP Chlorobenzene	0.846	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.339	0.000#	100.0#	0#	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.560	0.000#	100.0#	0#	-7.50#
52 TMP o-Xylene	0.553	0.000#	100.0#	0#	0.00
53 TMP Styrene	0.814	0.000#	100.0#	0#	-7.89#
54 TMP Isopropylbenzene	1.267	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.232	0.000#	100.0#	0#	-8.06#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	0.749	0.733	2.1	93	0.00
58 TMP n-Propylbenzene	2.492	0.000#	100.0#	0#	-8.61#
59 TMP Bromobenzene	0.689	0.000#	100.0#	0#	-8.50#
60 TMP 1,3,5-Trimethylbenzene	1.961	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.000#	100.0#	0#	-0.15
62 TMP 1,2,3-Trichloropropane	0.427	0.000#	100.0#	0#	-8.56#
63 TMP 2-Chlorotoluene	1.486	0.000#	100.0#	0#	-8.69#
64 TMP 4-Chlorotoluene	1.755	0.000#	100.0#	0#	-8.80#
65 TMP tert-Butylbenzene	1.793	0.000#	100.0#	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	2.486	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.169	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.287	0.000#	100.0#	0#	-9.41#
70 TMP 1,4-Dichlorobenzene	1.303	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.233	0.000#	100.0#	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.922	0.000#	100.0#	0#	-11.43#
74 TMP Hexachlorobutadiene	0.469	0.000#	100.0#	0#	-11.60#
75 TMP Naphthalene	2.177	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.859	0.000#	100.0#	0#	-11.91#

(#) = Out of Range

SPCC's out = 67 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080219.D  
 Acq On : 02 Aug 2023 04:35 pm  
 Operator : LM  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
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 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	249348	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	202438	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	116929	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	71680	10.436	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	104.40%
30) 1,2-Dichloroethane-d4	4.35	102	16094	10.352	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	103.50%
35) Toluene-d8	5.97	98	231877	9.898	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.00%
57) 4-Bromofluorobenzene	8.37	95	85660	10.122	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	101.20%
Target Compounds						
2) Ethanol	1.96	45	310	No Calib	#	Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	0.00		0	N.D.	d	
6) Vinyl chloride	0.00		0	N.D.	d	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	1.79	101	167	N.D.		
10) 2-Propanol	2.40	45	597	No Calib		
11) Acetone	0.00		0	N.D.	d	
12) 1,1-Dichloroethene	2.20	96	136	N.D.		
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	2.61	84	2174	Below Cal		80
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
17) trans-1,2-Dichloroethene	2.83	96	120	N.D.		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.	d	
20) Ethyl t-butyl ether (E...)	3.54	87	60	N.D.		
21) 2,2-Dichloropropane	3.65	77	334	Below Cal		48
22) cis-1,2-Dichloroethene	0.00		0	N.D.	d	
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26) 1,2-Dichloroethane (EDC)	4.41	62	258	N.D.		
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d	
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31) Benzene	4.39	78	348	N.D.		
32) Trichloroethene	0.00		0	N.D.	d	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.		

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080219.D  
 Acq On : 02 Aug 2023 04:35 pm  
 Operator : LM  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

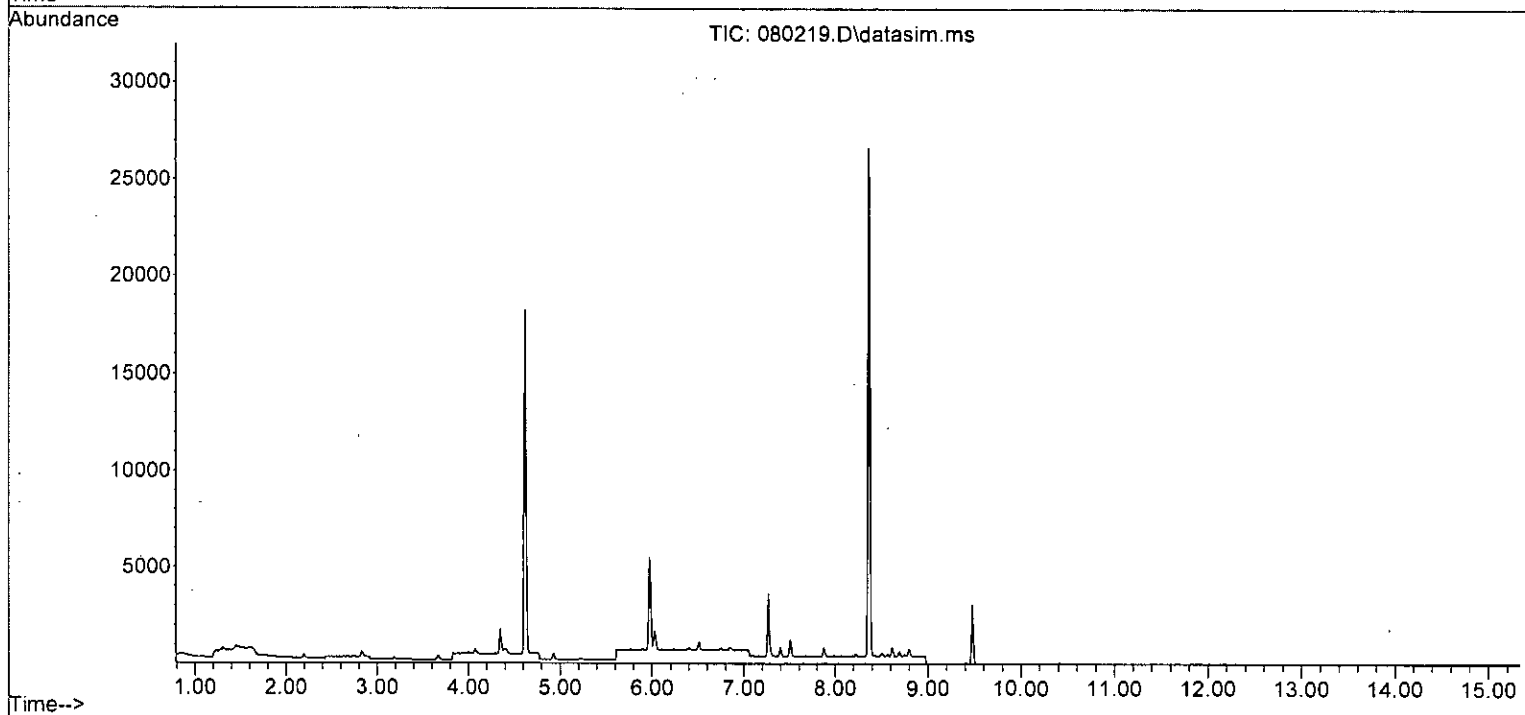
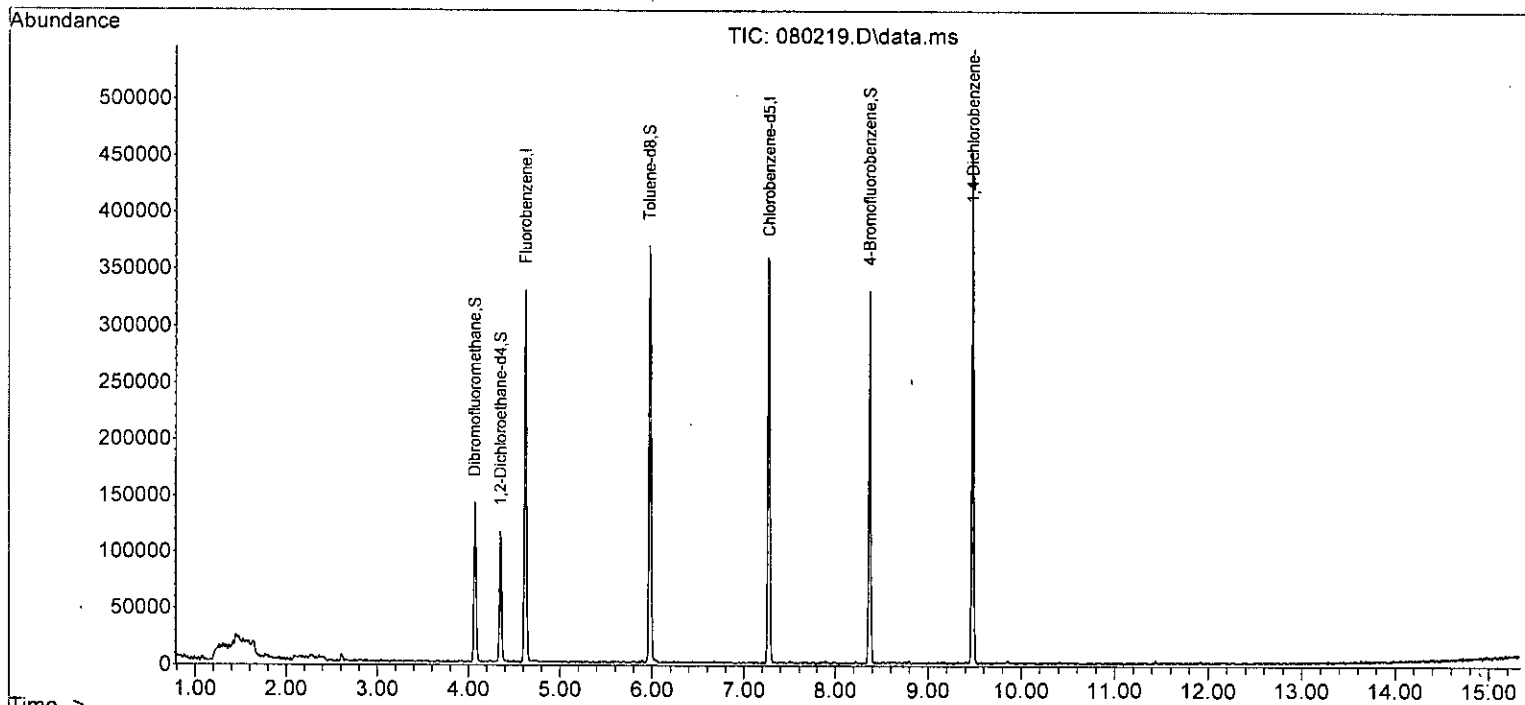
Quant Time: Aug 03 09:53:35 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40) Toluene	0.00		0	N.D.	d	
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45) Tetrachloroethene	6.51	164	135	N.D.	d	
46) Dibromochloromethane	0.00		0	N.D.	d	
47) 1,2-Dibromoethane (EDB)	6.84	107	117	N.D.	d	0.009 8/3 RM
48) Chlorobenzene	0.00		0	N.D.	d	
49) Ethylbenzene	7.40	91	449	N.D.	d	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51) m,p-Xylene	0.00		0	N.D.	d	
52) o-Xylene	7.88	106	167	N.D.	d	
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	8.38	83	61	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	9.11	119	232	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	9.87	146	88	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
Data File : 080219.D  
Acq On : 02 Aug 2023 04:35 pm  
Operator : LM  
Sample : 0.01 ppb 8260 ICAL 69-198e  
Misc : soil/water  
ALS Vial : 9 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Aug 03 09:53:35 2023  
Quant Method : D:\Methods\Inst11\080223vms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Aug 03 09:44:33 2023  
Response via : Initial Calibration  
DataAcq Meth:VM042423.M

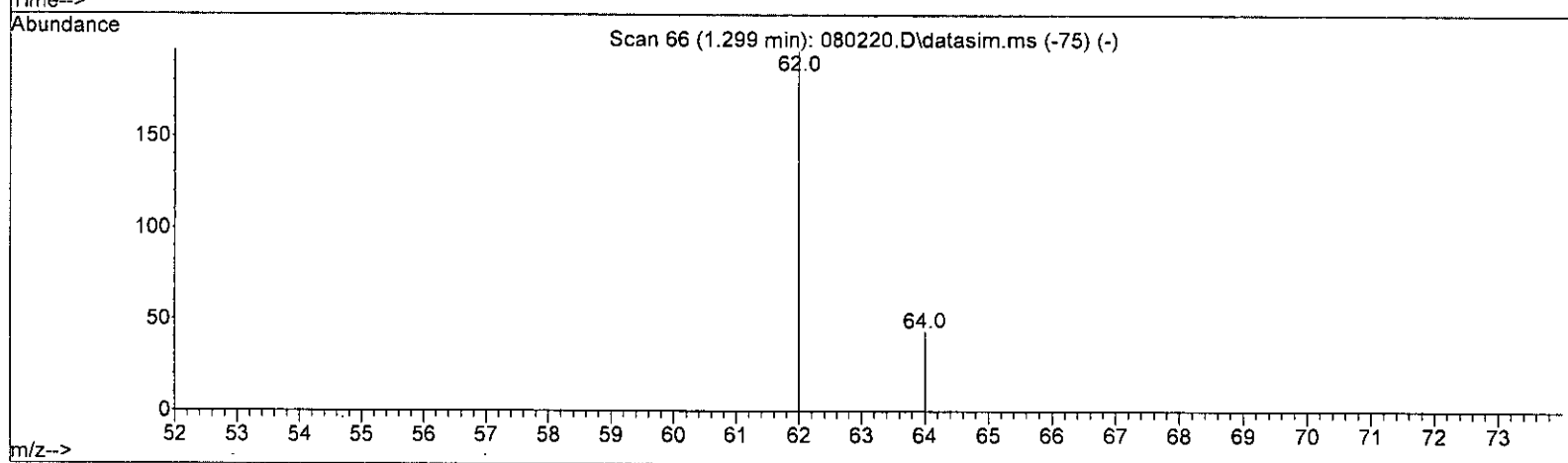
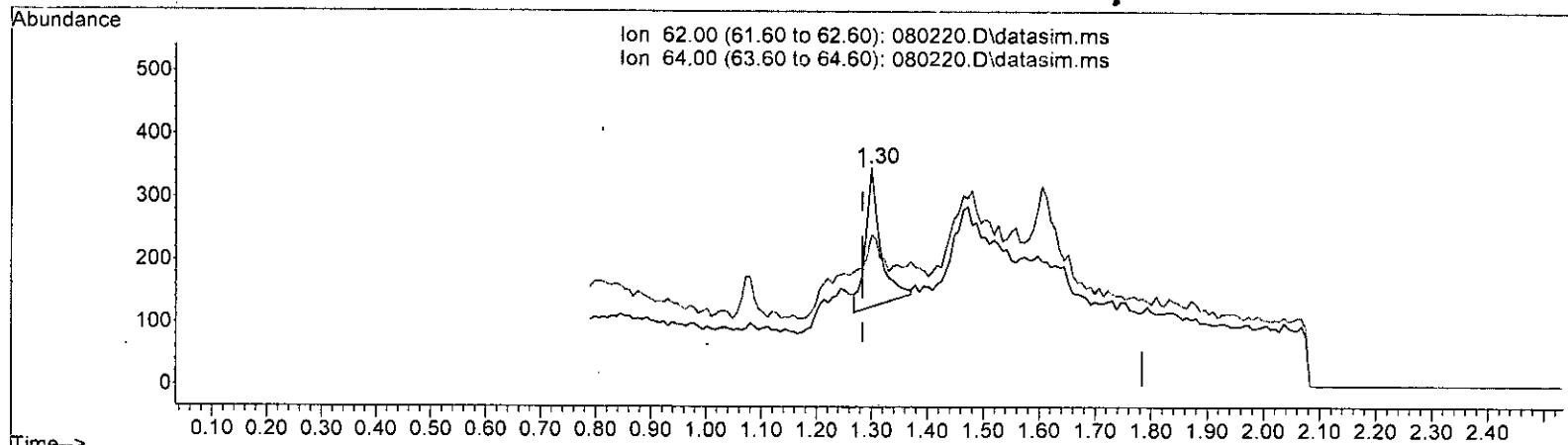




Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



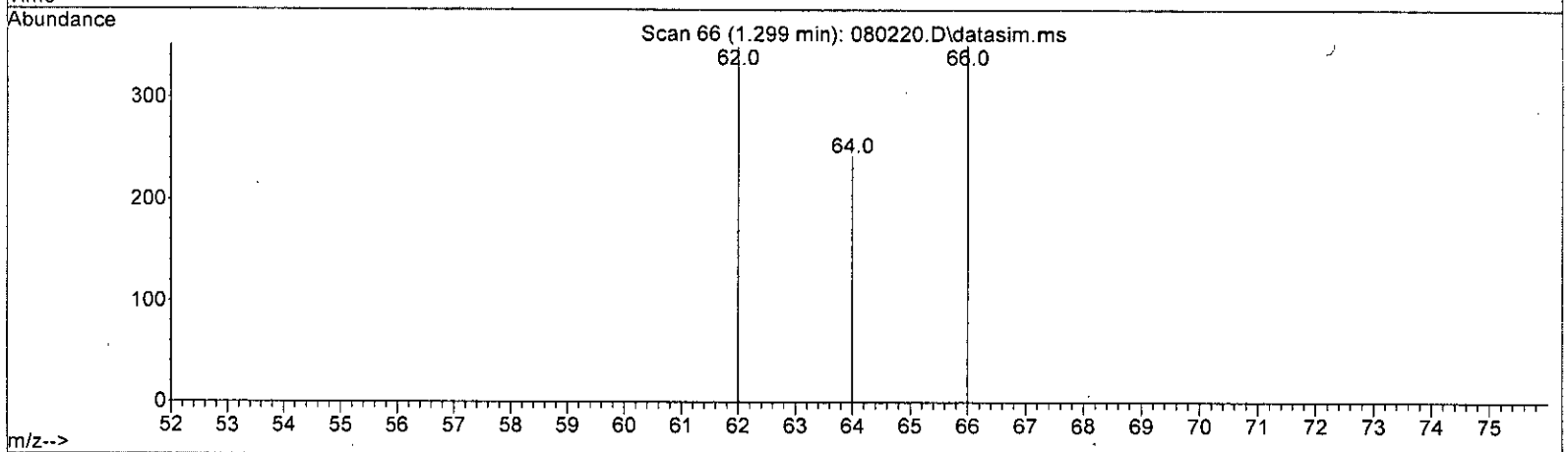
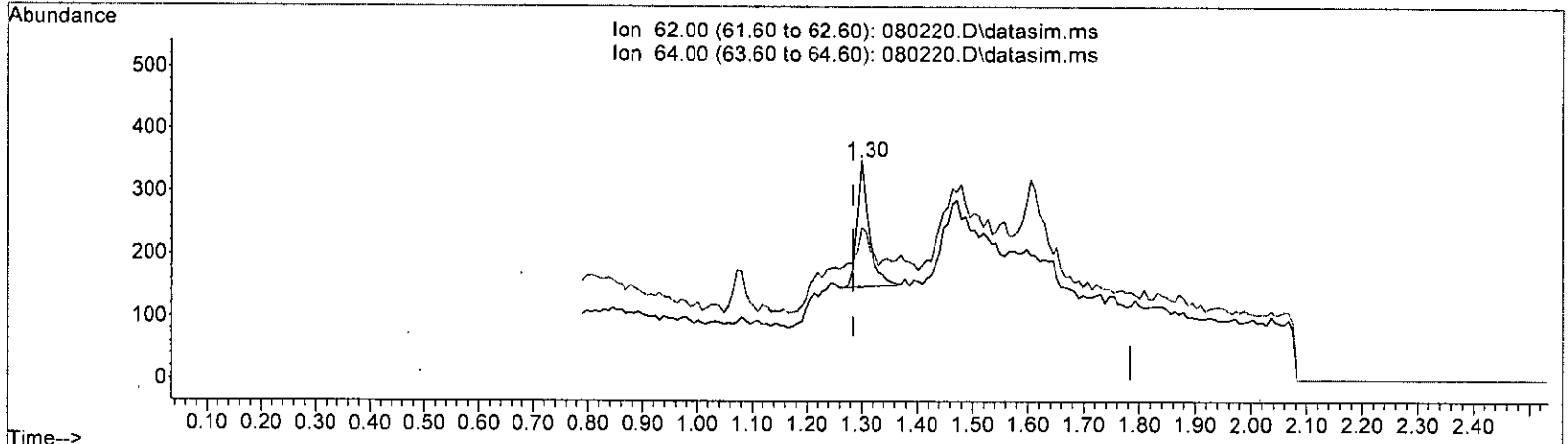
TIC: 080220.D\data.ms

(6) Vinyl chloride (TMP)		
1.299min (+ 0.015)	0.027 ppb	
response	409	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	29.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080220.D\data.ms

(6) Vinyl chloride (TMP)

1.299min (+ 0.015) 0.020 ppb m

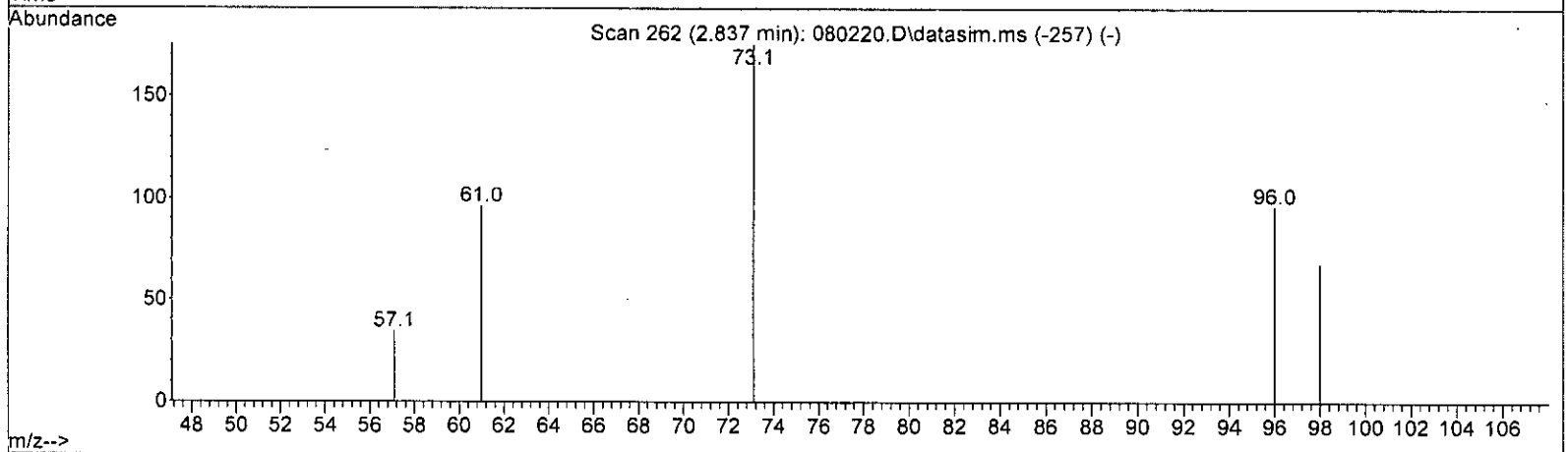
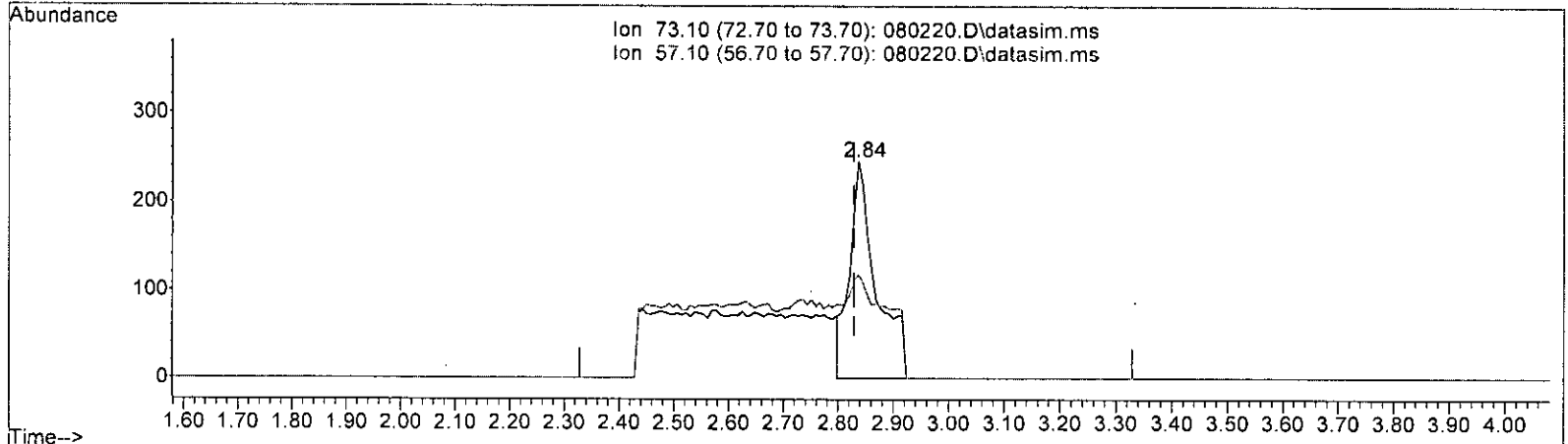
response 305

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	69.34#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080220.D\data.ms

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

2.837min (+ 0.008) 0.053 ppb

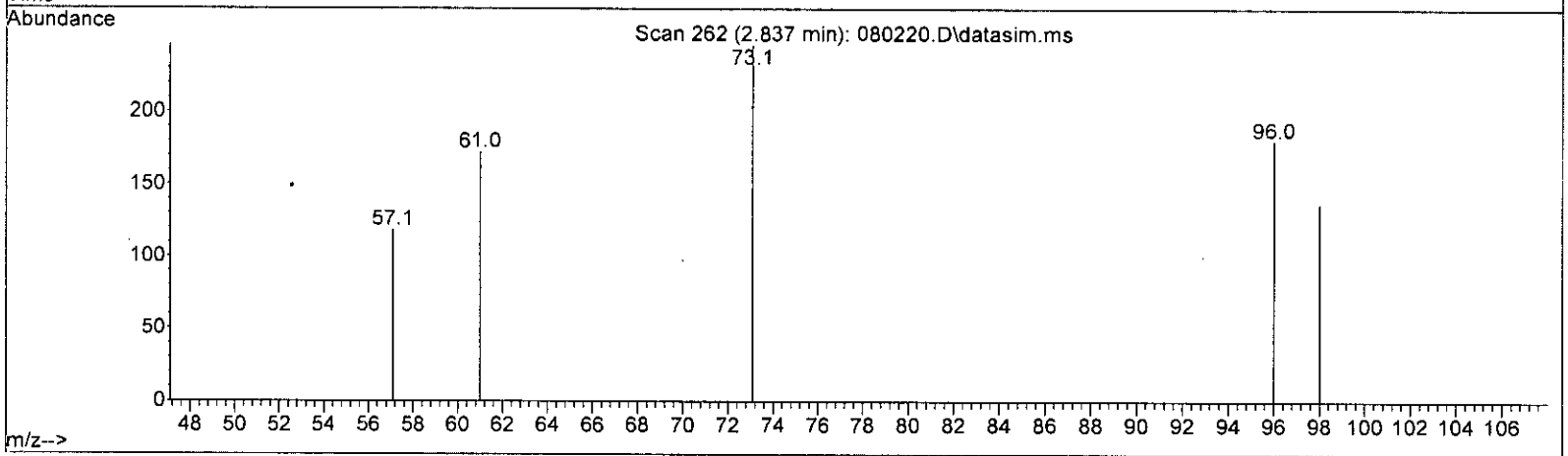
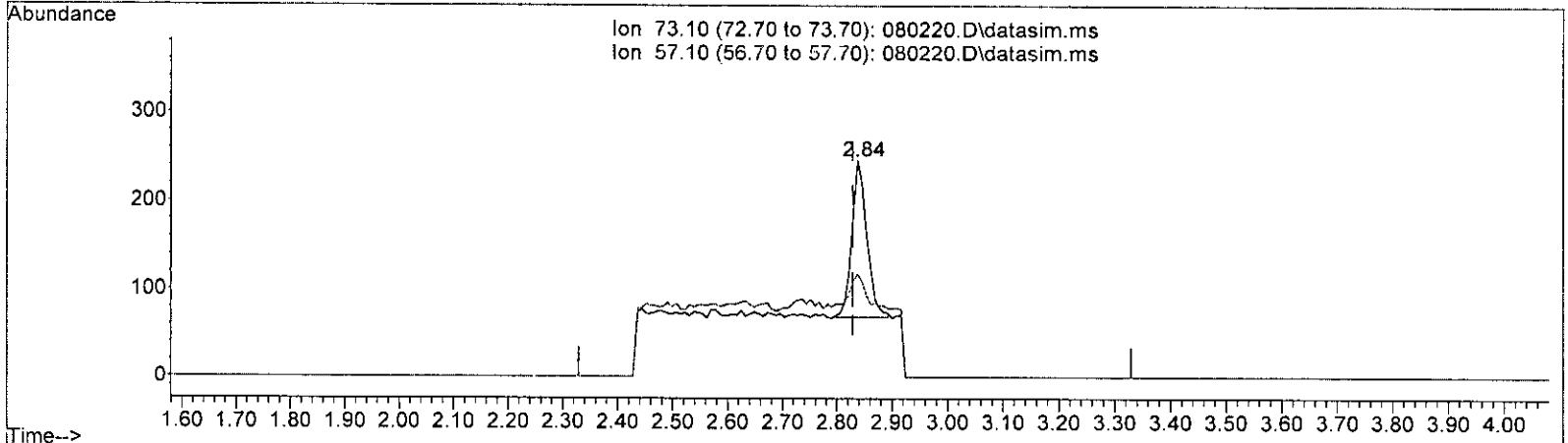
response 827

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	47.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080220.D\data.ms

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

2.837min (+ 0.008) 0.022 ppb m

response 337

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	47.97
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	87	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 S Dibromofluoromethane	10.000	10.097	-1.0	94	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.21#
6 TMP Vinyl chloride	0.020	0.020	0.0	102	0.02
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.52#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	-1.000	0.000	0.0	0	-2.25#
12 TMP 1,1-Dichloroethene	0.020	0.020	0.0	100	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.04#
14 TMP Methylene chloride	-1.000	-0.193	0.0	0	0.00
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.72#
16 TMP Methyl t-butyl ether (MTBE)	0.020	0.022	-10.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.020	0.018	10.0	104	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.020	0.024	-20.0	124	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.54#
21 TMP 2,2-Dichloropropane	-1.000	-0.094	0.0	0	0.00
22 TMP cis-1,2-Dichloroethene	0.020	0.026	-30.0#	109	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.93#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.69#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.48#
26 TMP 1,2-Dichloroethane (EDC)	0.020	0.016	20.0	99	0.00
27 TMP 1,1,1-Trichloroethane	0.020	0.025	-25.0#	129	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.21#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	10.146	-1.5	89	0.00
31 TMP Benzene	0.020	0.017	15.0	103	0.00
32 TMP Trichloroethene	0.020	0.018	10.0	101	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.12#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	10.002	-0.0	97	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.22#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.90#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
40 TMP Toluene	0.020	0.019	5.0	114	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.24#
42 TMP 1,1,2-Trichloroethane	0.020	0.023	-15.0	104	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.020	0.017	15.0	123	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.017	15.0	109	0.01
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.020	0.016	20.0	108	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.040	0.037	7.5	105	0.00
52 TMP o-Xylene	0.020	0.020	0.0	108	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.89#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.06#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	95	0.00
57 S 4-Bromofluorobenzene	10.000	9.874	1.3	92	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.61#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.50#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.56#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.69#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.80#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.41#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.43#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.60#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.91#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	87	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.278	-3.3	94	0.00
4 TMP Dichlorodifluoromethane	0.697	0.000#	100.0#	0#	-1.08#
5 TMP Chloromethane	0.636	0.000#	100.0#	0#	-1.21#
6 TMP Vinyl chloride	0.524	0.601	-14.7	102	0.02
7 TMP Bromomethane	0.407	0.000#	100.0#	0#	-1.52#
8 TMP Chloroethane	0.266	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.776	0.000#	100.0#	0#	-1.77#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.047	0.000#	100.0#	0#	-2.25#
12 TMP 1,1-Dichloroethene	0.351	0.491	-39.9#	100	0.00
13 TMP Hexane	0.281	0.000#	100.0#	0#	-3.04#
14 TMP Methylene chloride	0.232	0.000#	100.0#	0#	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.000#	100.0#	0#	-2.72#
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.665	-19.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.381	-49.4#	104	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.348	0.483	-38.8#	124	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.000#	100.0#	0#	-3.54#
21 TMP 2,2-Dichloropropane	0.247	0.000#	100.0#	0#	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.394	-46.5#	109	0.00
23 TMP Chloroform	0.384	0.000#	100.0#	0#	-3.93#
24 TMP 2-Butanone (MEK)	0.131	0.000#	100.0#	0#	-3.69#
25 TMP t-Amyl methyl ether (TAME)	0.541	0.000#	100.0#	0#	-4.48#
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.647	-104.7#	99	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.527	-46.8#	129	0.00
28 TMP 1,1-Dichloropropene	0.286	0.000#	100.0#	0#	-4.21#
29 TMP Carbon tetrachloride	0.317	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.063	0.063	0.0	89	0.00
31 TMP Benzene	0.840	1.185	-41.1#	103	0.00
32 TMP Trichloroethene	0.274	0.383	-39.8#	101	0.00
33 TMP 1,2-Dichloropropane	0.192	0.000#	100.0#	0#	-5.12#
34 TMP Bromodichloromethane	0.265	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.932	0.940	-0.9	97	0.00
36 TMP Dibromomethane	0.149	0.000#	100.0#	0#	-5.22#
37 TMP 4-Methyl-2-pentanone	0.042	0.000#	100.0#	0#	-5.90#
38 TMP cis-1,3-Dichloropropene	0.310	0.000#	100.0#	0#	-5.75#
39 I Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
40 TMP Toluene	0.774	1.395	-80.2#	114	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.000#	100.0#	0#	-6.24#
42 TMP 1,1,2-Trichloroethane	0.216	0.270	-25.0#	104	0.00
43 TMP 2-Hexanone	0.210	0.000#	100.0#	0#	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.329	0.592	-79.9#	123	0.00
46 TMP Dibromochloromethane	0.305	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.416	-32.5#	109	0.01
48 TMP Chlorobenzene	0.846	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.339	1.883	-40.6#	108	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.560	0.798	-42.5#	105	0.00
52 TMP o-Xylene	0.553	0.771	-39.4#	108	0.00
53 TMP Styrene	0.814	0.000#	100.0#	0#	-7.89#
54 TMP Isopropylbenzene	1.267	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.232	0.000#	100.0#	0#	-8.06#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
57 5 4-Bromofluorobenzene	0.749	0.715	4.5	92	0.00
58 TMP n-Propylbenzene	2.492	0.000#	100.0#	0#	-8.61#
59 TMP Bromobenzene	0.689	0.000#	100.0#	0#	-8.50#
60 TMP 1,3,5-Trimethylbenzene	1.961	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,1,2-Tetrachloroethane	0.576	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.427	0.000#	100.0#	0#	-8.56#
63 TMP 2-Chlorotoluene	1.486	0.000#	100.0#	0#	-8.69#
64 TMP 4-Chlorotoluene	1.755	0.000#	100.0#	0#	-8.80#
65 TMP tert-Butylbenzene	1.793	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.030	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	2.486	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.169	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.287	0.000#	100.0#	0#	-9.41#
70 TMP 1,4-Dichlorobenzene	1.303	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.233	0.000#	100.0#	0#	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.922	0.000#	100.0#	0#	-11.43#
74 TMP Hexachlorobutadiene	0.469	0.000#	100.0#	0#	-11.60#
75 TMP Naphthalene	2.177	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.859	0.000#	100.0#	0#	-11.91#

(#) = Out of Range

SPCC's out = 51 CCC's out = 0



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	253557	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	201769	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	116321	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	70521	10.097	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.00%
30) 1,2-Dichloroethane-d4	4.35	102	16040	10.146	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	101.50%
35) Toluene-d8	5.97	98	238257	10.002	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	100.00%
57) 4-Bromofluorobenzene	8.37	95	83134	9.874	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	98.70%
Target Compounds						
2) Ethanol	1.95	45	334	No Calib		Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.30	62	305m	0.020	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	2.39	45	1492	No Calib		
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.19	96	249	0.020	ppb	79
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	2.61	84	2107	Below Cal	#	70
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.84	73	337m	0.022	ppb	
17] trans-1,2-Dichloroethene	2.83	96	193	0.018	ppb	97
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.18	63	245	0.024	ppb	99
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	3.67	77	466	Below Cal		48
22] cis-1,2-Dichloroethene	3.67	96	200	0.026	ppb	89
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.41	62	328	0.016	ppb	94
27] 1,1,1-Trichloroethane	4.08	97	267	0.025	ppb	98
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.38	78	601	0.017	ppb	91
32] Trichloroethene	4.93	95	194	0.018	ppb	86
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

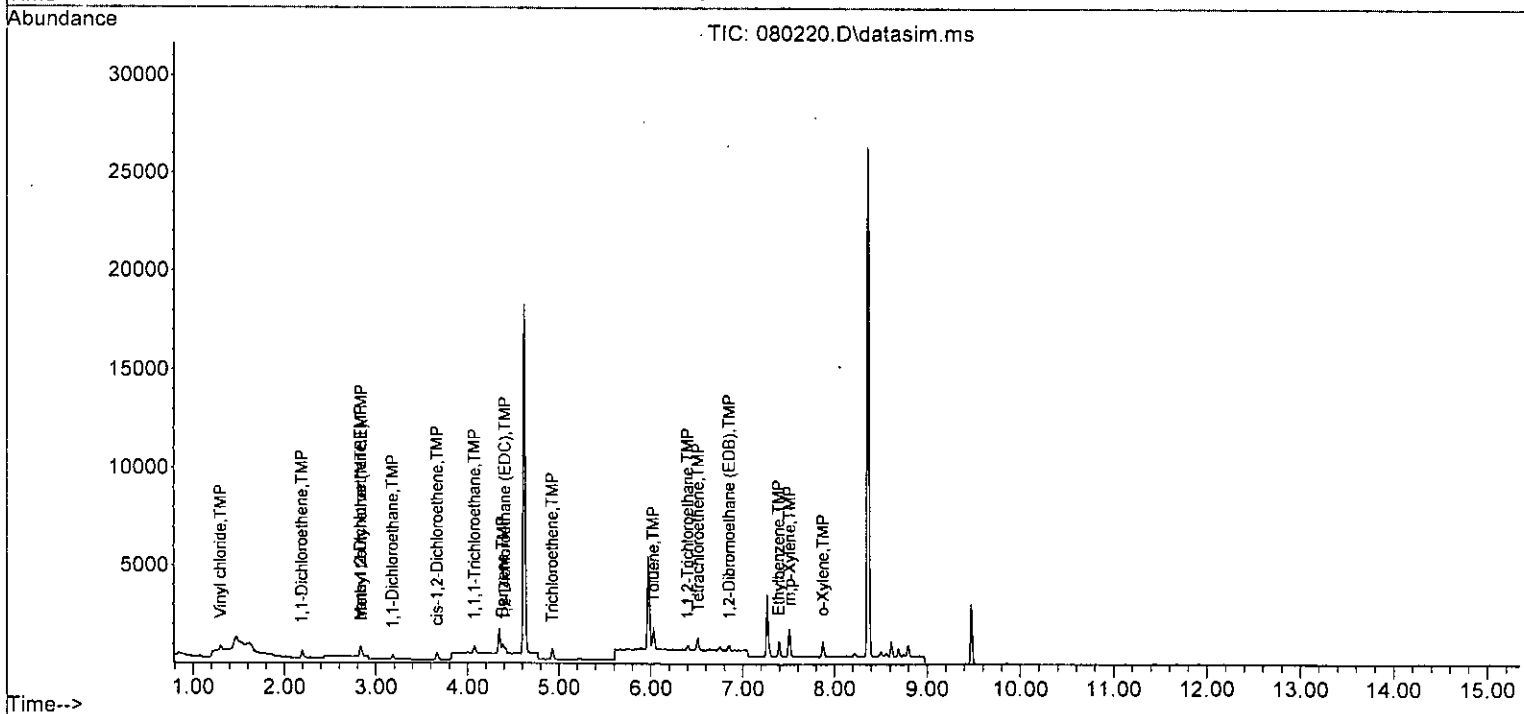
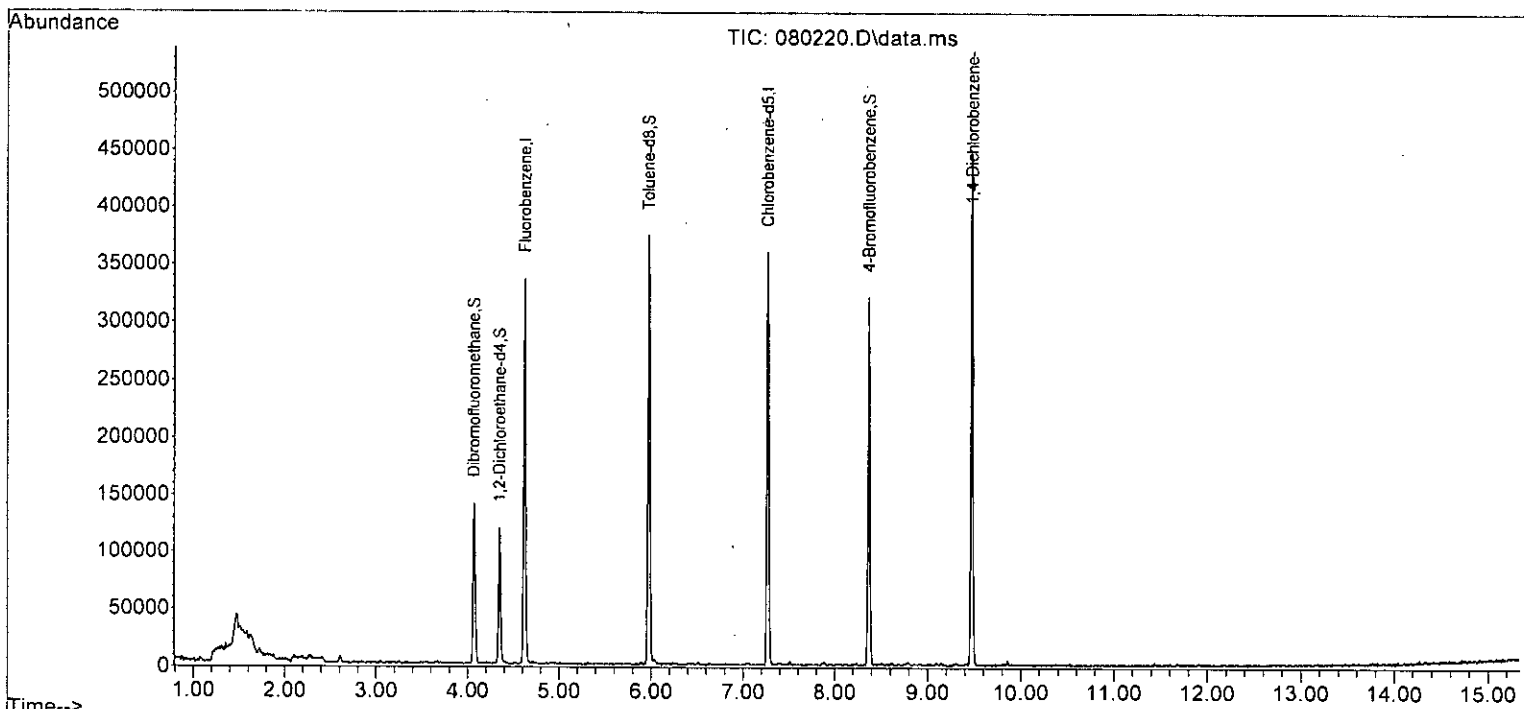
Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	563	0.019	ppb	93
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.40	83	109	0.023	ppb	92
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	239	0.017	ppb	97
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.85	107	168	0.017	ppb	84
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.39	91	760	0.016	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.51	106	644	0.037	ppb	83
52] o-Xylene	7.87	106	311	0.020	ppb	97
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080220.D  
 Acq On : 02 Aug 2023 04:57 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

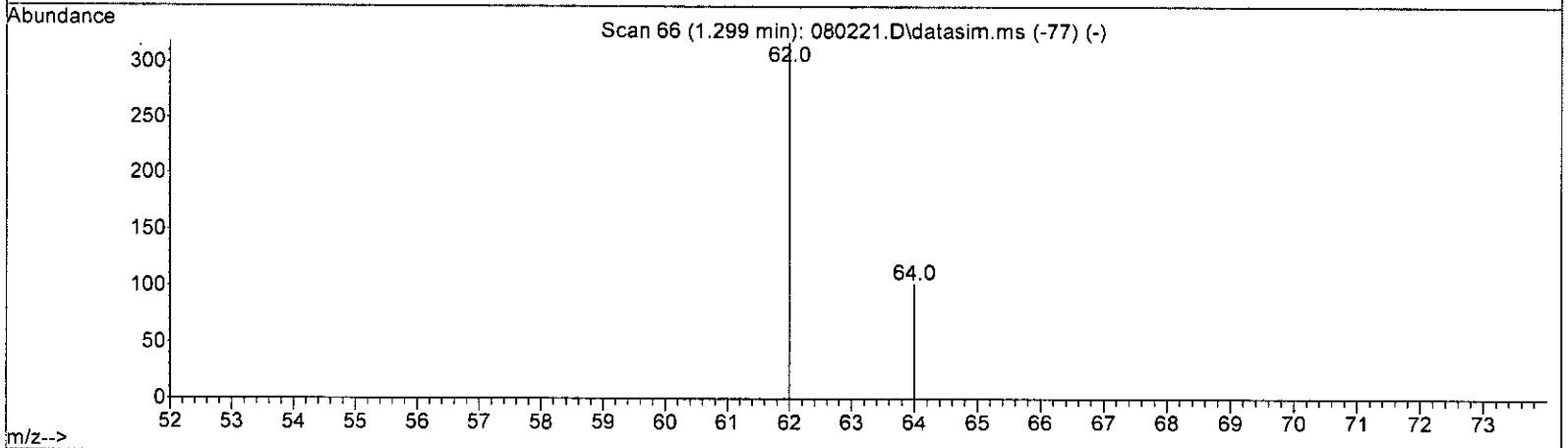
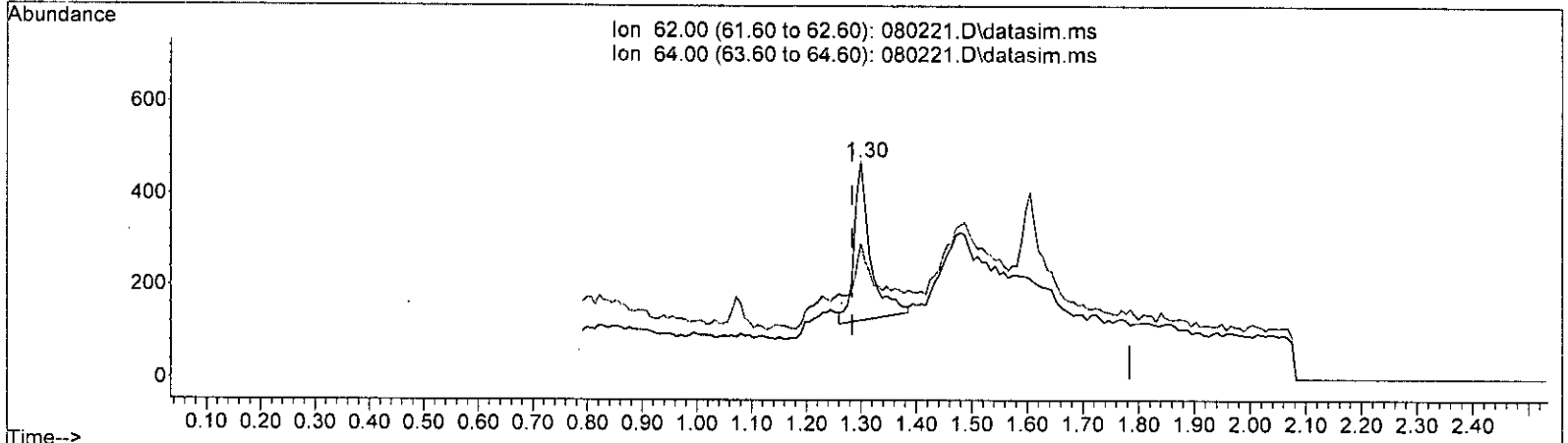
Quant Time: Aug 03 09:53:37 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080221.D\data.ms

(6) Vinyl chloride (TMP)

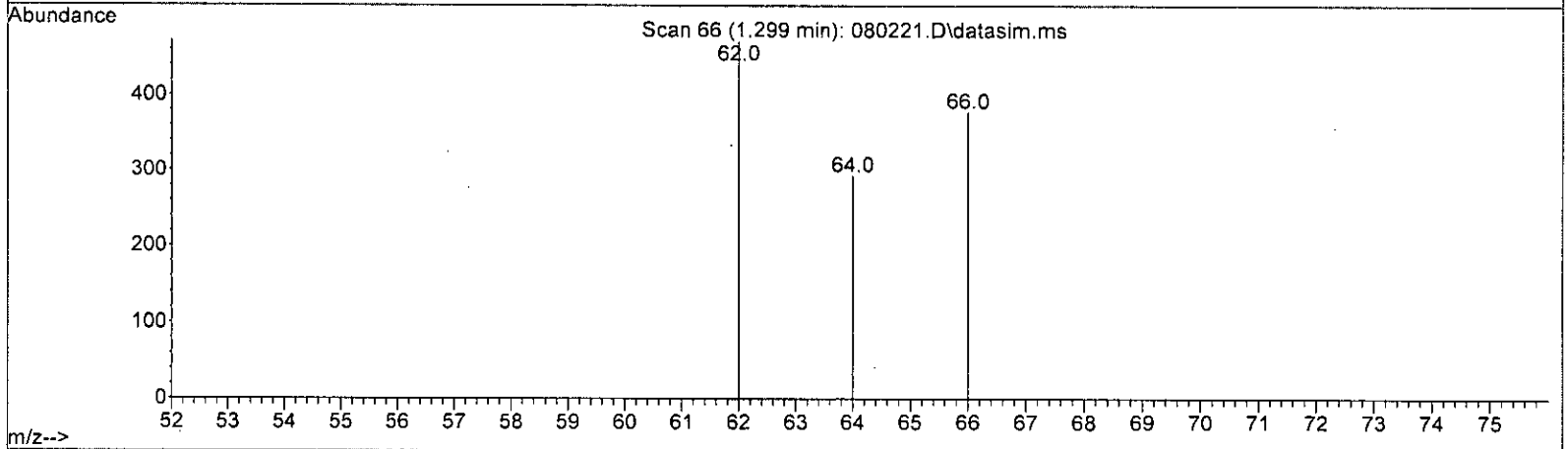
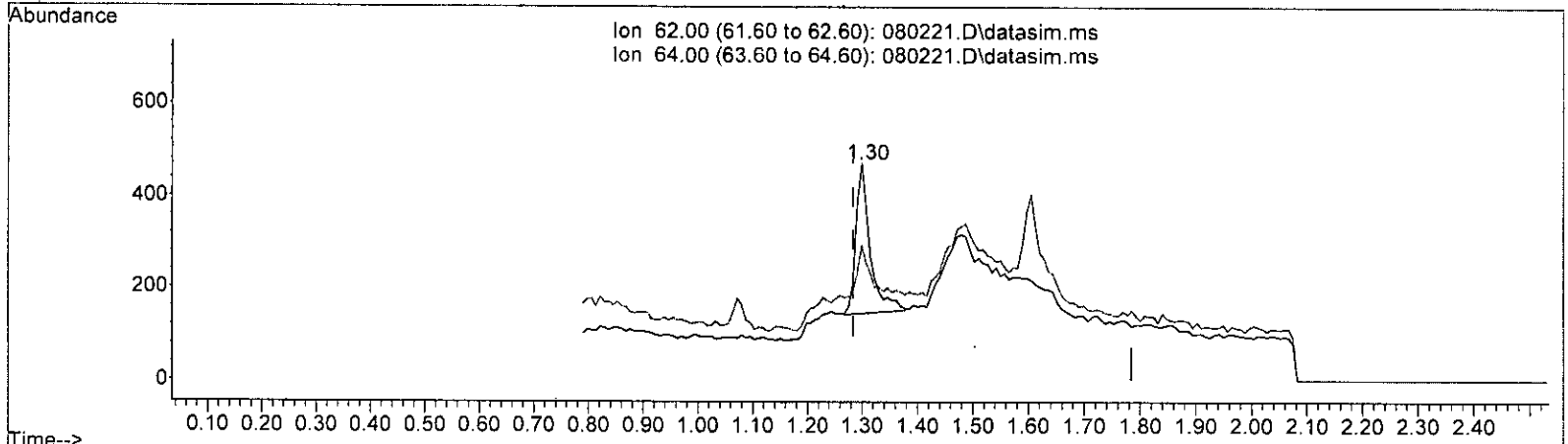
1.299min (+ 0.015) 0.043 ppb

response	705	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	33.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080221.D\data.ms

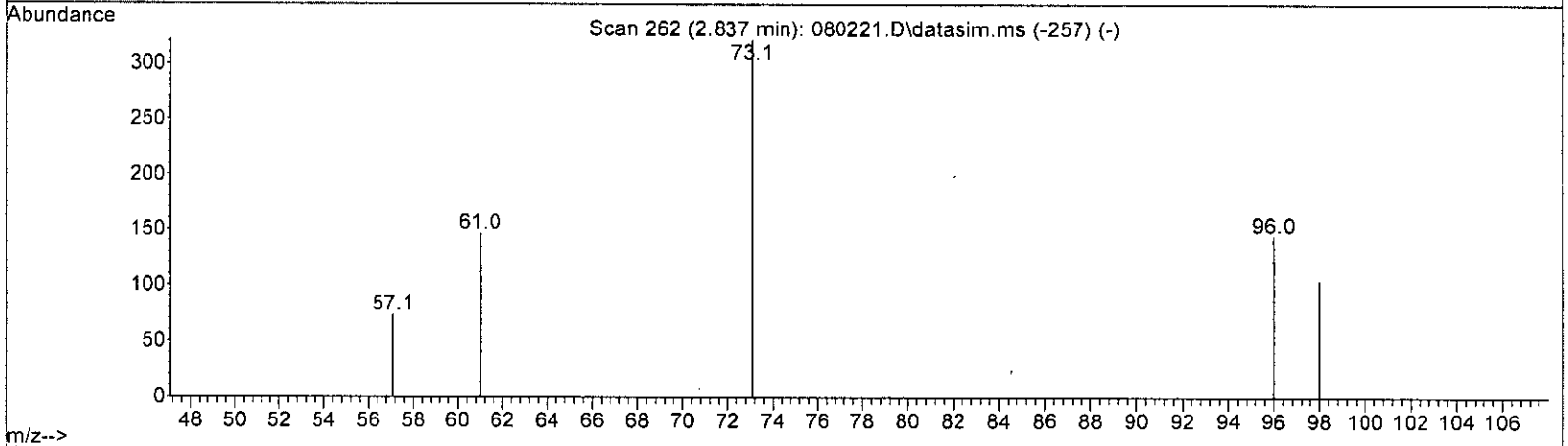
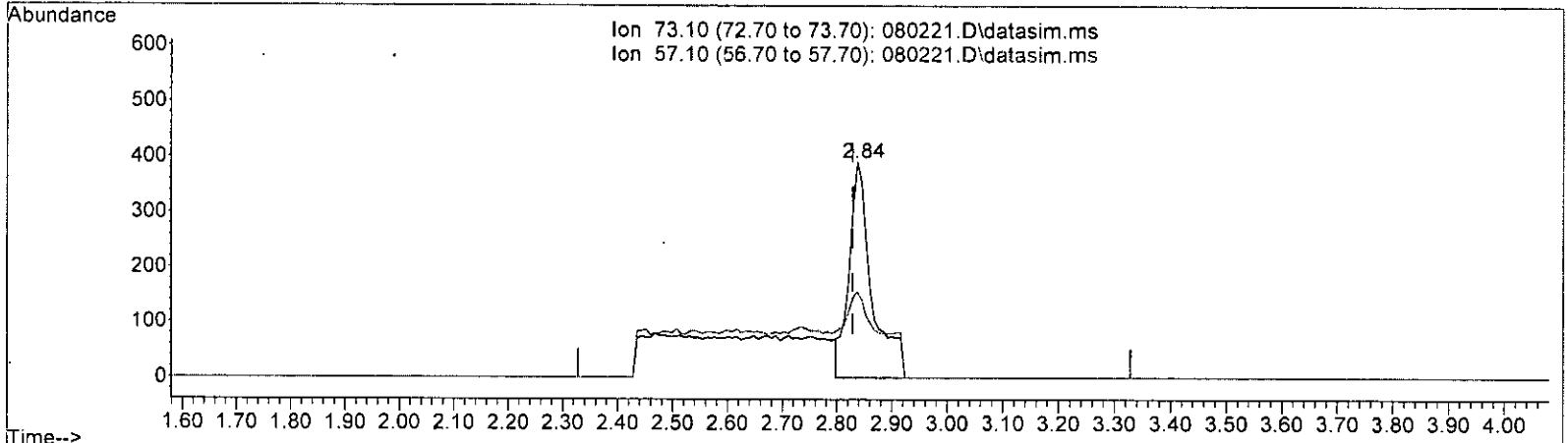
(6) Vinyl chloride (TMP)  
 1.299min (+ 0.015) 0.036 ppb m  
 response 586

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	62.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080221.D\data.ms

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

2.837min (+ 0.008) 0.066 ppb

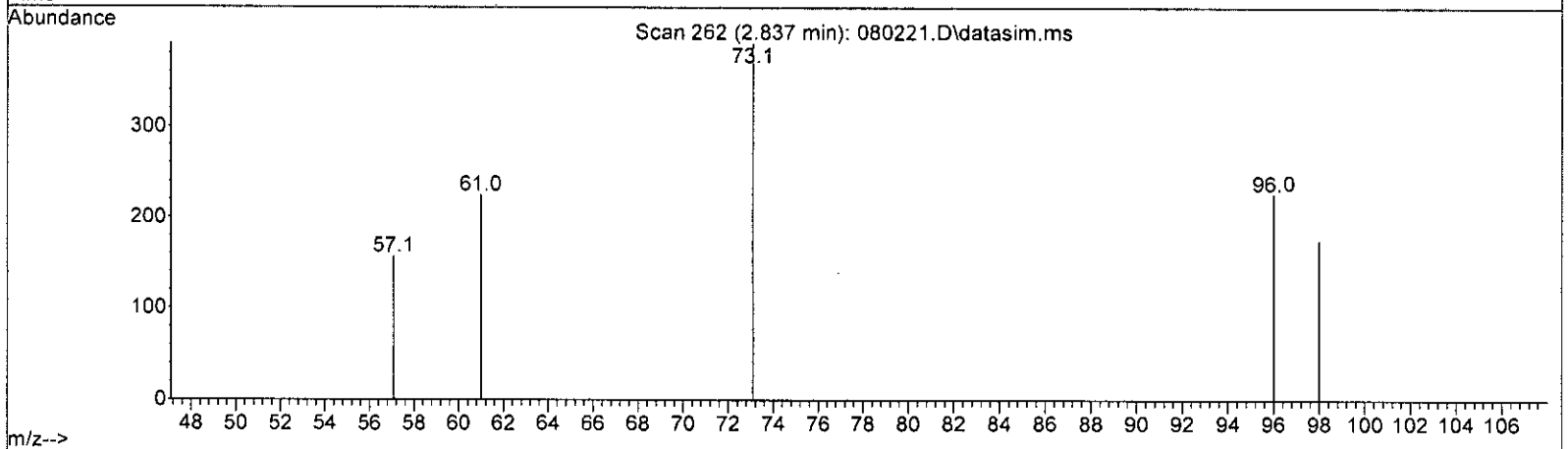
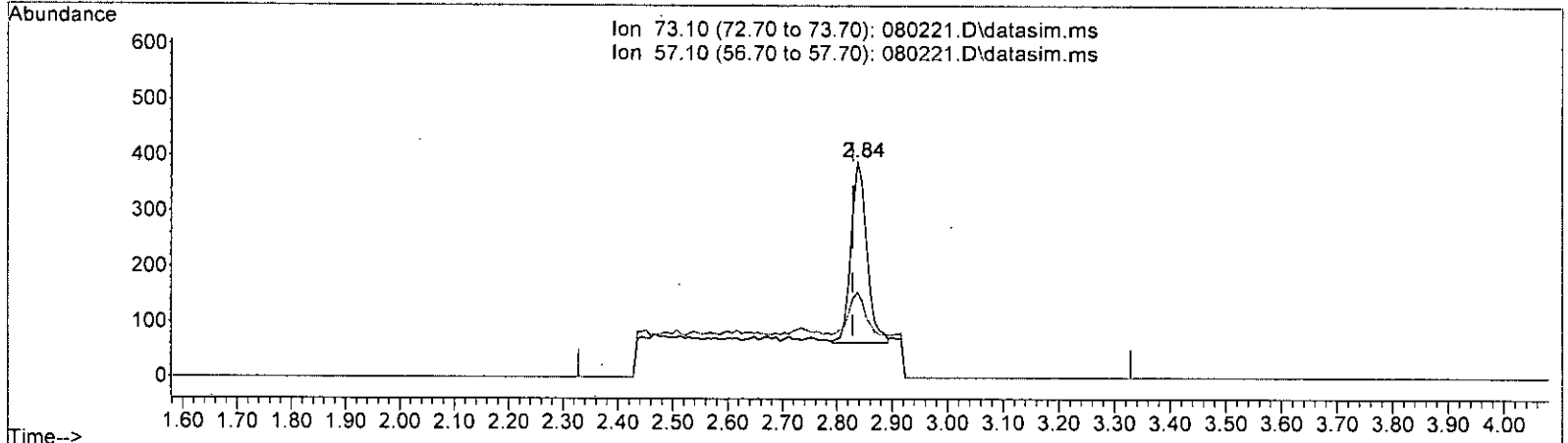
response 1116

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	39.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080221.D\data.ms

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

2.837min (+ 0.008) 0.039 ppb m

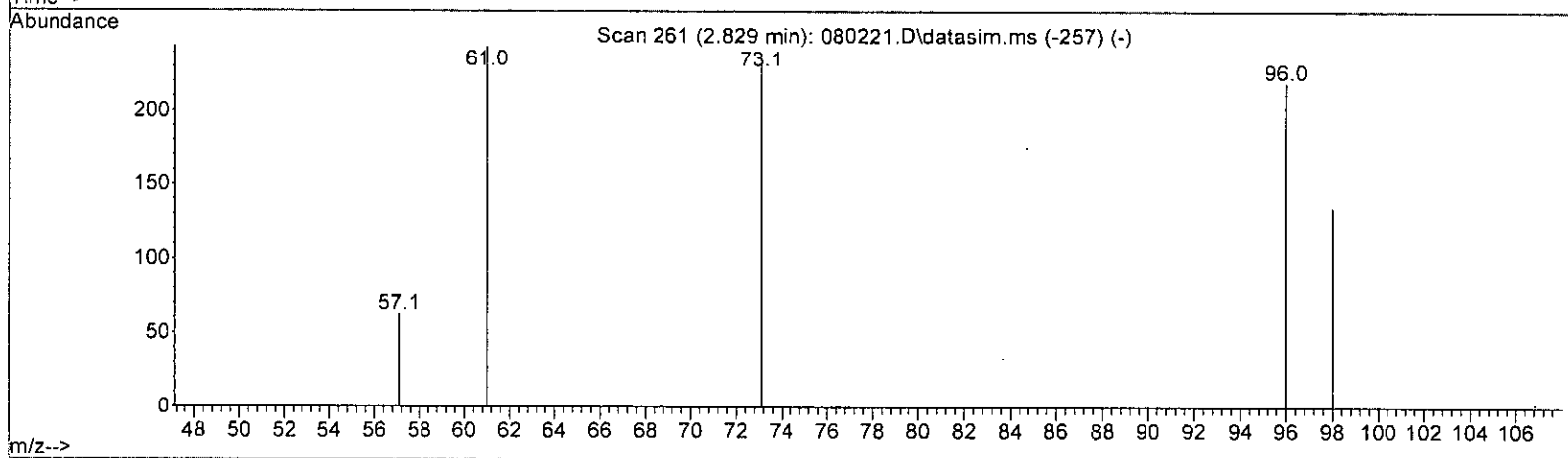
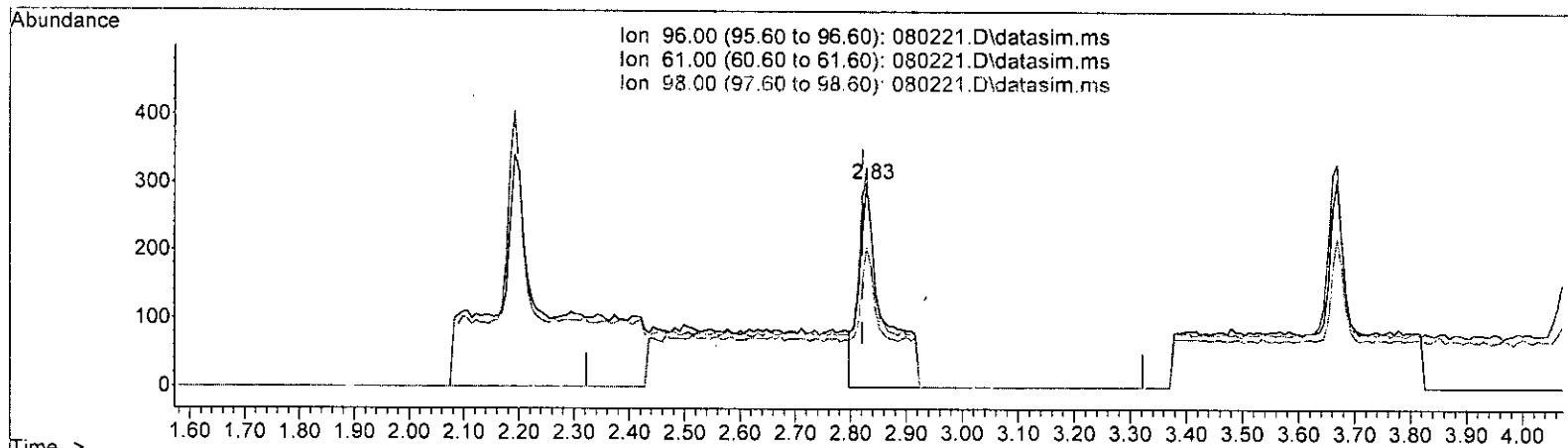
response 654

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	39.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080221.D\data.ms

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

2.829min (+ 0.007) 0.112 ppb

response 897

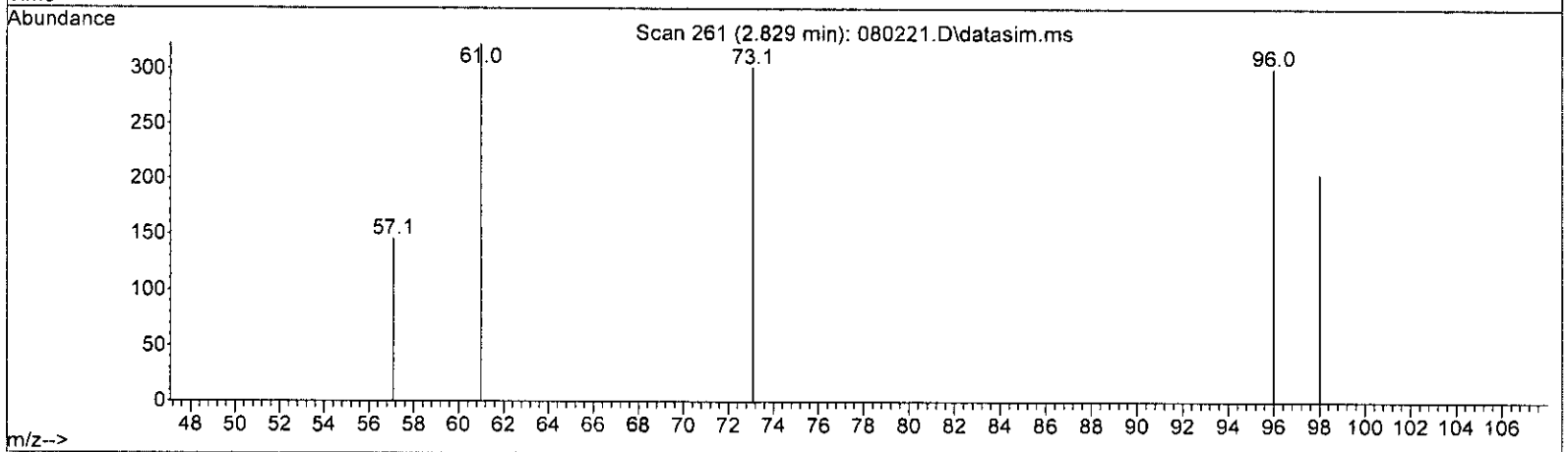
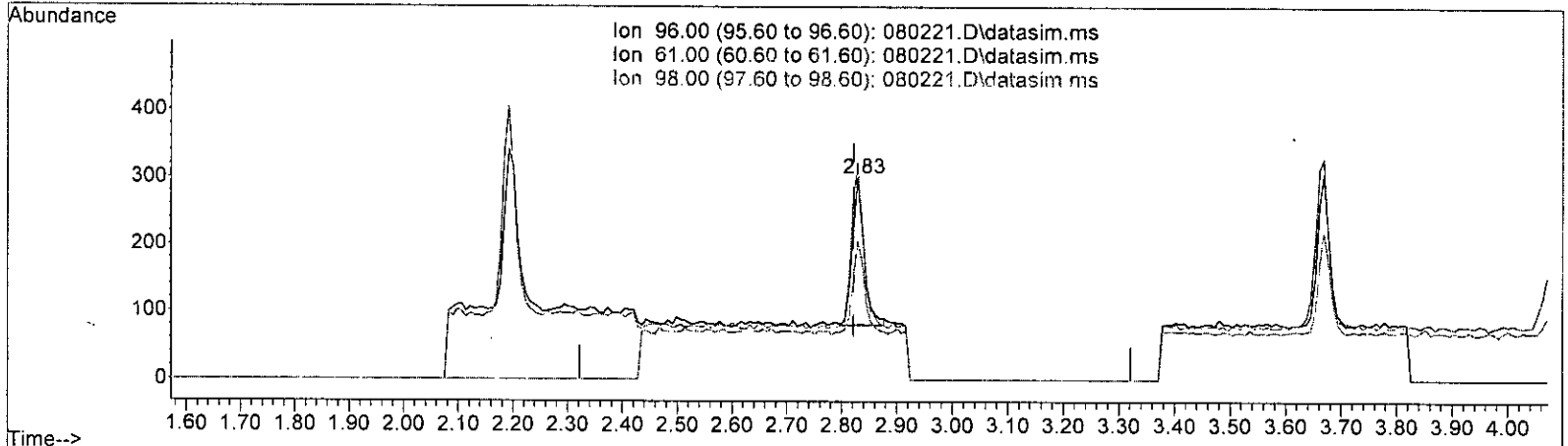
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	107.33
98.00	65.30	68.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080221.D\data.ms

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

2.829min (+ 0.007) 0.034 ppb m

response 324

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	107.33
98.00	65.30	68.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	103	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	8.967	10.3	94	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.21#
6 TMP	Vinyl chloride	0.040	0.036	10.0	99	0.02
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.52#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.25#
12 TMP	1,1-Dichloroethene	0.040	0.034	15.0	80	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.04#
14 TMP	Methylene chloride	-1.000	-0.200	0.0	0	0.02
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.72#
16 TMP	Methyl t-butyl ether (MTBE)	0.040	0.039	2.5	110	0.00
17 TMP	trans-1,2-Dichloroethene	0.040	0.034	15.0	96	0.00
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP	1,1-Dichloroethane	0.040	0.038	5.0	103	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.54#
21 TMP	2,2-Dichloropropane	-1.000	-0.104	0.0	0	0.00
22 TMP	cis-1,2-Dichloroethene	0.040	0.041	-2.5	106	0.00
23 TMP	Chloroform	-1.000	0.000	0.0	0	-3.93#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.69#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.48#
26 TMP	1,2-Dichloroethane (EDC)	0.040	0.037	7.5	92	0.00
27 TMP	1,1,1-Trichloroethane	0.040	0.038	5.0	106	0.00
28 TMP	1,1-Dichloropropane	-1.000	0.000	0.0	0	-4.21#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S	1,2-Dichloroethane-d4	10.000	8.860	11.4	86	0.00
31 TMP	Benzene	0.040	0.034	15.0	103	0.00
32 TMP	Trichloroethene	0.040	0.036	10.0	108	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.12#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S	Toluene-d8	10.000	9.145	8.6	96	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.22#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.90#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
40 TMP	Toluene	0.040	0.035	12.5	97	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.24#
42 TMP	1,1,2-Trichloroethane	0.040	0.049	-22.5#	114	0.00
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.040	0.039	2.5	110	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.040	0.040	0.0	97	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.040	0.038	5.0	103	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.080	0.078	2.5	102	0.00
52 TMP o-Xylene	0.040	0.040	0.0	102	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.89#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.06#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	10.000	9.901	1.0	95	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.61#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.50#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.56#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.69#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.80#
65 TMP tert-Butylbenzene	-1.000	0.007	0.0	0	0.05
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.41#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.43#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.60#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.91#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 5	Dibromofluoromethane	0.269	0.247	8.2	94	0.00
4 TMP	Dichlorodifluoromethane	0.697	0.000#	100.0#	0#	-1.08#
5 TMP	Chloromethane	0.636	0.000#	100.0#	0#	-1.21#
6 TMP	Vinyl chloride	0.524	0.532	-1.5	99	0.02
7 TMP	Bromomethane	0.407	0.000#	100.0#	0#	-1.52#
8 TMP	Chloroethane	0.266	0.000#	100.0#	0#	-1.59#
9 TMP	Trichlorofluoromethane	0.776	0.000#	100.0#	0#	-1.77#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.047	0.000#	100.0#	0#	-2.25#
12 TMP	1,1-Dichloroethene	0.351	0.372	-6.0	80	0.00
13 TMP	Hexane	0.281	0.000#	100.0#	0#	-3.04#
14 TMP	Methylene chloride	0.232	0.000#	100.0#	0#	0.02
15 TMP	t-Butyl alcohol (TBA)	0.026	0.000#	100.0#	0#	-2.72#
16 TMP	Methyl t-butyl ether (MTBE)	0.559	0.594	-6.3	110	0.00
17 TMP	trans-1,2-Dichloroethene	0.255	0.294	-15.3	96	0.00
18 TMP	Diisopropyl ether (DIPE)	0.591	0.000#	100.0#	0#	-3.24#
19 TMP	1,1-Dichloroethane	0.348	0.382	-9.8	103	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.257	0.000#	100.0#	0#	-3.54#
21 TMP	2,2-Dichloropropane	0.247	0.000#	100.0#	0#	0.00
22 TMP	cis-1,2-Dichloroethene	0.269	0.311	-15.6	106	0.00
23 TMP	Chloroform	0.384	0.000#	100.0#	0#	-3.93#
24 TMP	2-Butanone (MEK)	0.131	0.000#	100.0#	0#	-3.69#
25 TMP	t-Amyl methyl ether (TAME)	0.541	0.000#	100.0#	0#	-4.48#
26 TMP	1,2-Dichloroethane (EDC)	0.316	0.473	-49.7#	92	0.00
27 TMP	1,1,1-Trichloroethane	0.359	0.396	-10.3	106	0.00
28 TMP	1,1-Dichloropropene	0.286	0.000#	100.0#	0#	-4.21#
29 TMP	Carbon tetrachloride	0.317	0.000#	100.0#	0#	-4.21#
30 S	1,2-Dichloroethane-d4	0.063	0.055	12.7	86	0.00
31 TMP	Benzene	0.840	0.974	-16.0	103	0.00
32 TMP	Trichloroethene	0.274	0.320	-16.8	108	0.00
33 TMP	1,2-Dichloropropane	0.192	0.000#	100.0#	0#	-5.12#
34 TMP	Bromodichloromethane	0.265	0.000#	100.0#	0#	-5.37#
35 S	Toluene-d8	0.932	0.859	7.8	96	0.00
36 TMP	Dibromomethane	0.149	0.000#	100.0#	0#	-5.22#
37 TMP	4-Methyl-2-pentanone	0.042	0.000#	100.0#	0#	-5.90#
38 TMP	cis-1,3-Dichloropropene	0.310	0.000#	100.0#	0#	-5.75#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
40 TMP	Toluene	0.774	1.026	-32.6#	97	0.00
41 TMP	trans-1,3-Dichloropropene	0.354	0.000#	100.0#	0#	-6.24#
42 TMP	1,1,2-Trichloroethane	0.216	0.295	-36.6#	114	0.00
43 TMP	2-Hexanone	0.210	0.000#	100.0#	0#	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.329	0.480	-45.9#	110	0.00
46 TMP Dibromochloromethane	0.305	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.386	-22.9#	97	0.00
48 TMP Chlorobenzene	0.846	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.339	1.715	-28.1#	103	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.560	0.713	-27.3#	102	0.00
52 TMP o-Xylene	0.553	0.697	-26.0#	102	0.00
53 TMP Styrene	0.814	0.000#	100.0#	0#	-7.89#
54 TMP Isopropylbenzene	1.267	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.232	0.000#	100.0#	0#	-8.06#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	0.749	0.717	4.3	95	0.00
58 TMP n-Propylbenzene	2.492	0.000#	100.0#	0#	-8.61#
59 TMP Bromobenzene	0.689	0.000#	100.0#	0#	-8.50#
60 TMP 1,3,5-Trimethylbenzene	1.961	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.427	0.000#	100.0#	0#	-8.56#
63 TMP 2-Chlorotoluene	1.486	0.000#	100.0#	0#	-8.69#
64 TMP 4-Chlorotoluene	1.755	0.000#	100.0#	0#	-8.80#
65 TMP tert-Butylbenzene	1.793	0.000#	100.0#	0#	0.05
66 TMP 1,2,4-Trimethylbenzene	2.030	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	2.486	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.169	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.287	0.000#	100.0#	0#	-9.41#
70 TMP 1,4-Dichlorobenzene	1.303	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.233	0.000#	100.0#	0#	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.922	0.000#	100.0#	0#	-11.43#
74 TMP Hexachlorobutadiene	0.469	0.000#	100.0#	0#	-11.60#
75 TMP Naphthalene	2.177	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.859	0.000#	100.0#	0#	-11.91#

(#) = Out of Range

SPCC's out = 51 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	275148	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	200985	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.47	152	119916	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	67962	8.967	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery =	89.70%			
30) 1,2-Dichloroethane-d4	4.35	102	15199	8.860	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery =	88.60%			
35) Toluene-d8	5.97	98	236384	9.145	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery =	91.40%			
57) 4-Bromofluorobenzene	8.37	95	85931	9.901	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery =	99.00%			
Target Compounds							
							Qvalue
2) Ethanol	1.96	45	580	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D. d			
5) Chloromethane	0.00		0	N.D. d			
6] Vinyl chloride	1.30	62	586m	0.036	ppb		
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D. d			
9) Trichlorofluoromethane	0.00		0	N.D. d			
10) 2-Propanol	2.39	45	1912	No Calib			
11) Acetone	0.00		0	N.D. d			
12] 1,1-Dichloroethene	2.19	96	409	0.034	ppb		95
13) Hexane	0.00		0	N.D. d			
14) Methylene chloride	2.61	84	2235	Below Cal			86
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d			
16] Methyl t-butyl ether (...)	2.84	73	654m	0.039	ppb		
17] trans-1,2-Dichloroethene	2.83	96	324m	0.034	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D. d			
19] 1,1-Dichloroethane	3.18	63	420	0.038	ppb		99
20) Ethyl t-butyl ether (E...)	0.00		0	N.D. d			
21) 2,2-Dichloropropane	3.66	77	439	Below Cal			88
22] cis-1,2-Dichloroethene	3.67	96	342	0.041	ppb		99
23) Chloroform	0.00		0	N.D. d			
24) 2-Butanone (MEK)	0.00		0	N.D. d			
25) t-Amyl methyl ether (T...)	0.00		0	N.D. d			
26] 1,2-Dichloroethane (EDC)	4.41	62	521	0.037	ppb		96
27] 1,1,1-Trichloroethane	4.08	97	436	0.038	ppb		98
28) 1,1-Dichloropropene	0.00		0	N.D. d			
29) Carbon tetrachloride	0.00		0	N.D. d			
31] Benzene	4.38	78	1072	0.034	ppb		91
32] Trichloroethene	4.93	95	352	0.036	ppb		87
33) 1,2-Dichloropropane	0.00		0	N.D. d			
34) Bromodichloromethane	0.00		0	N.D. d			
36) Dibromomethane	0.00		0	N.D. d			

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

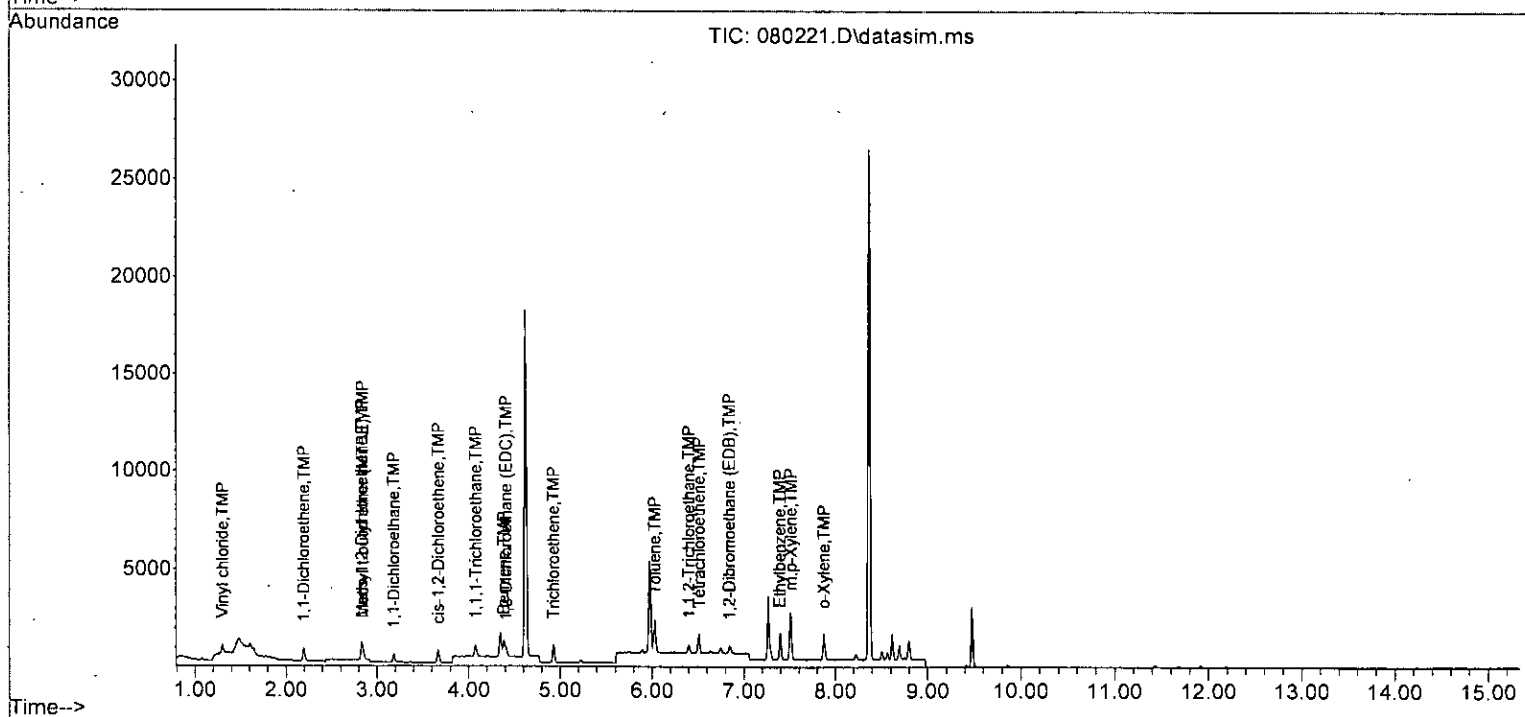
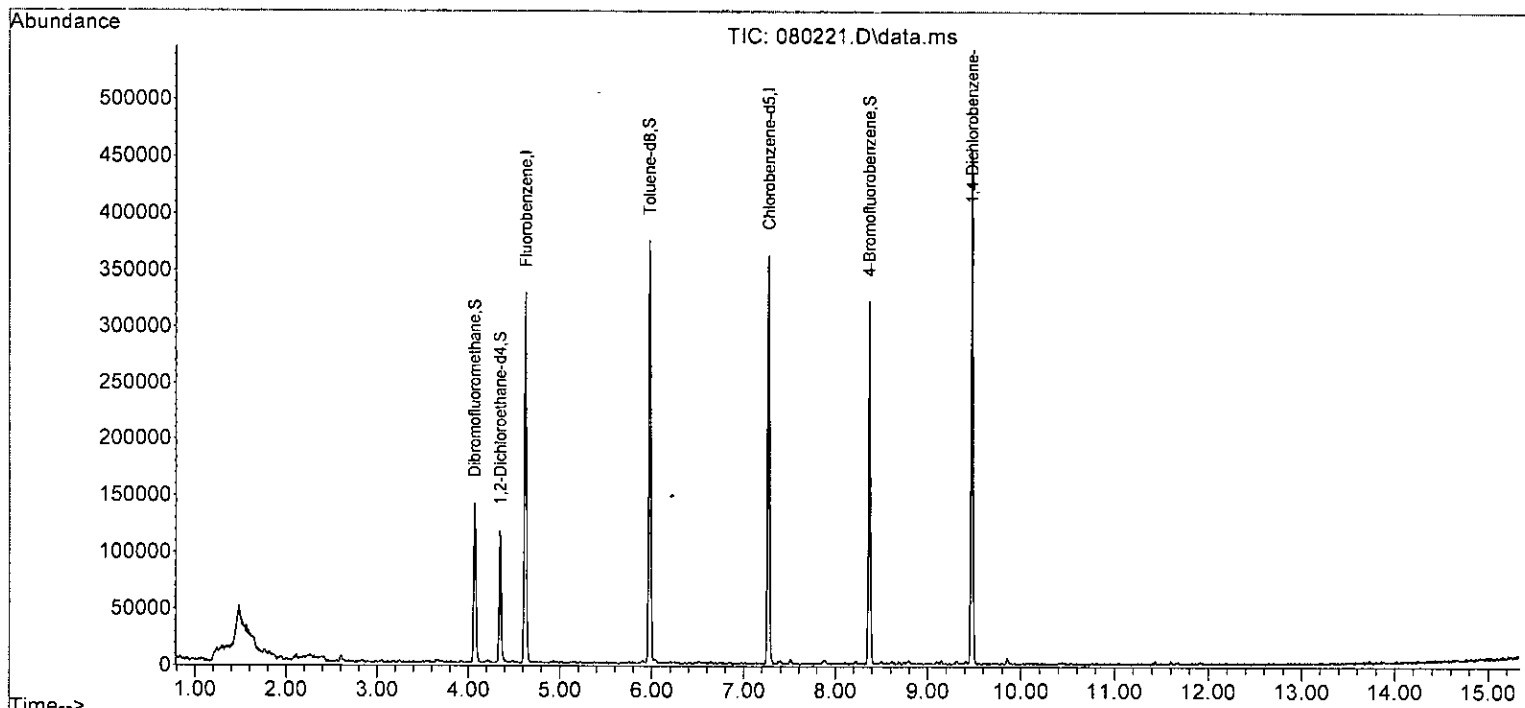
Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	825	0.035	ppb	99
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.40	83	237	0.049	ppb	92
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	386	0.039	ppb	92
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.84	107	310	0.040	ppb	100
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.39	91	1379	0.038	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.51	106	1146	0.078	ppb	84
52] o-Xylene	7.87	106	560	0.040	ppb	100
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	9.15	119	169	N.D.		
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080221.D  
 Acq On : 02 Aug 2023 05:20 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:39 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

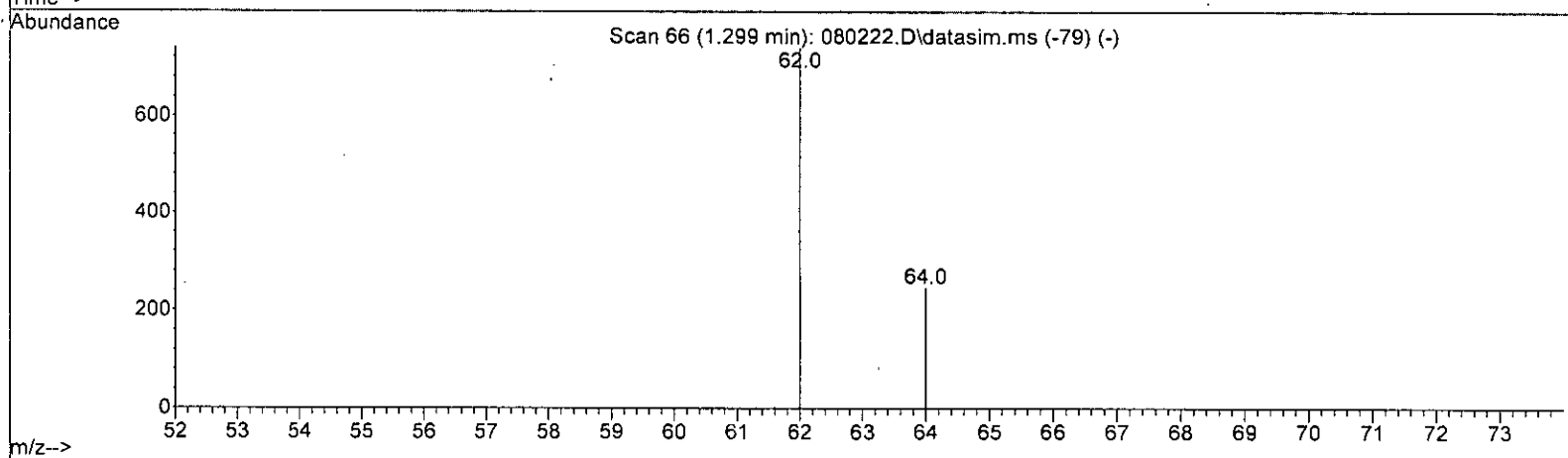
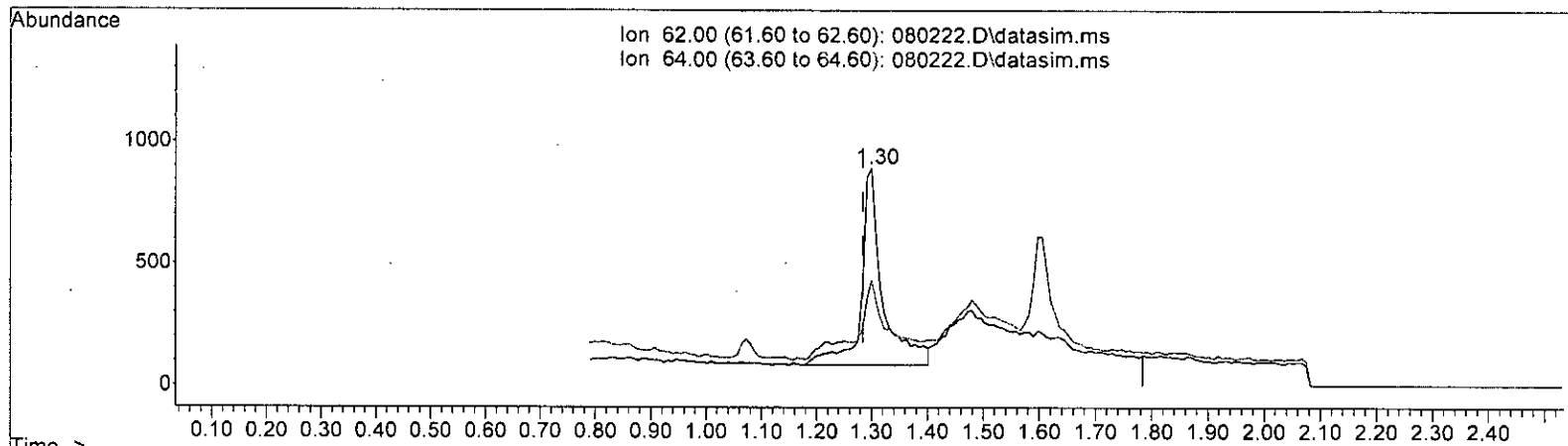




Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



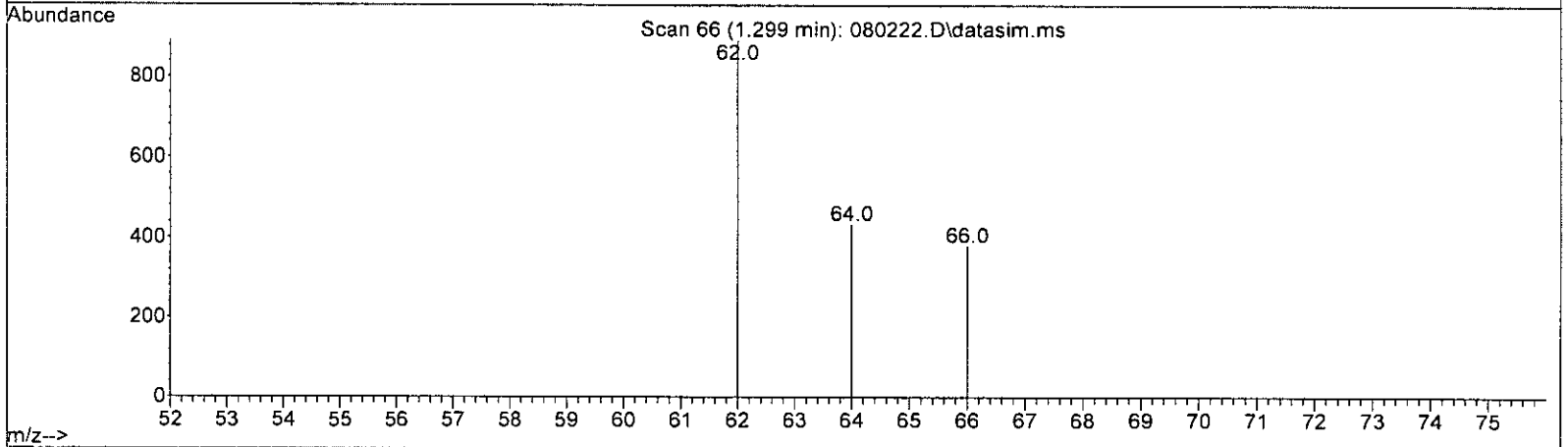
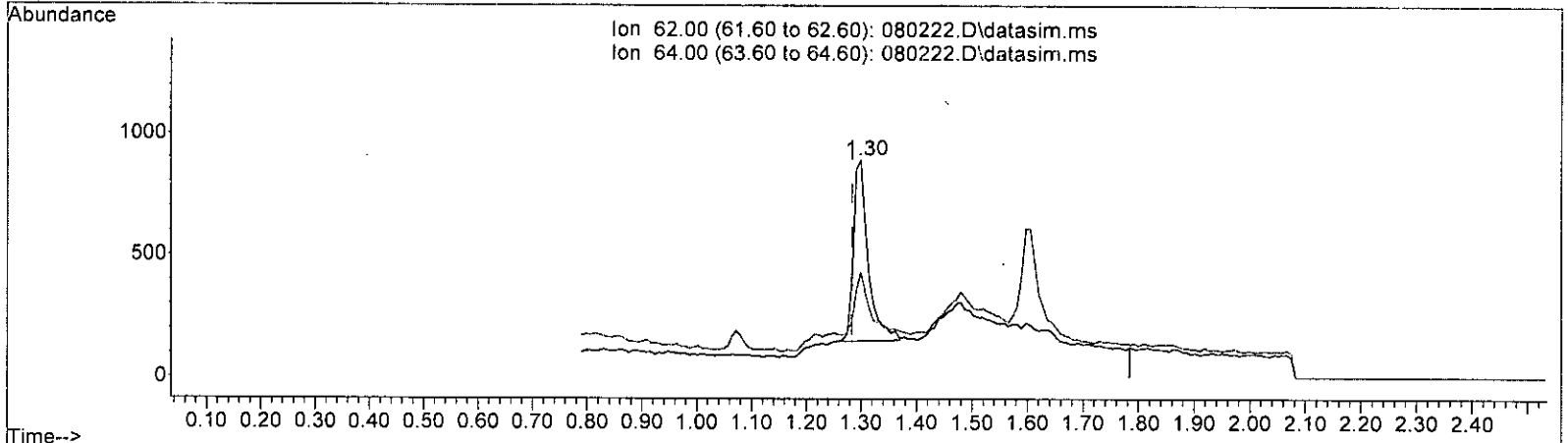
TIC: 080222.D\data.ms

(6) Vinyl chloride (TMP)		
1.299min (+ 0.015)	0.144 ppb	
response	2181	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	40.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080222.D\data.ms

(6) Vinyl chloride (TMP)

1.299min (+ 0.015) 0.090 ppb m

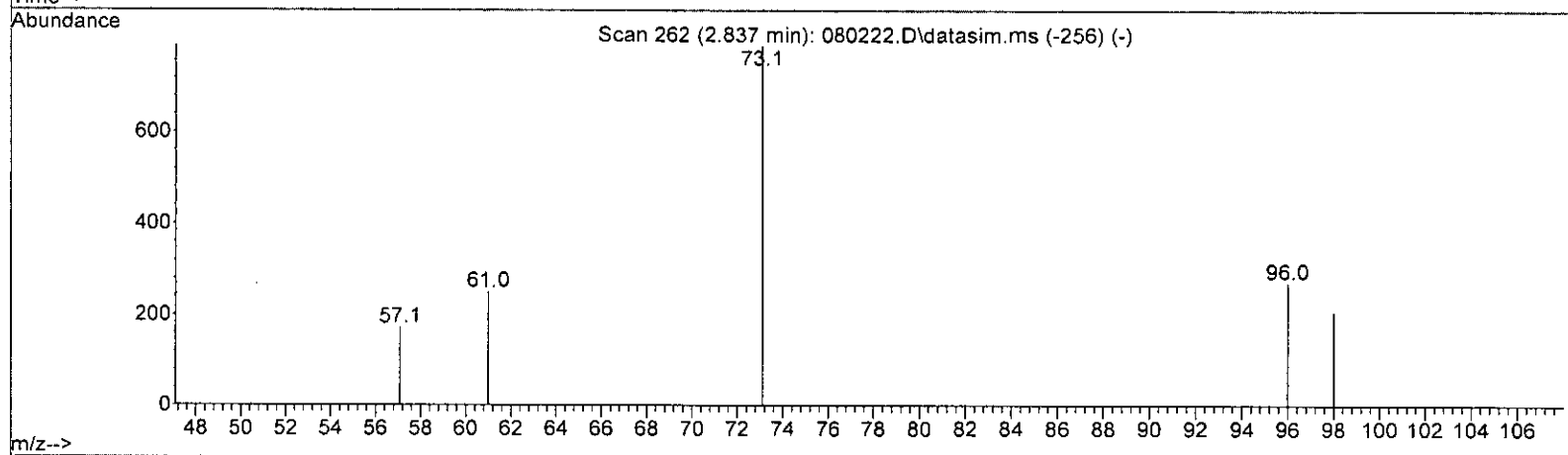
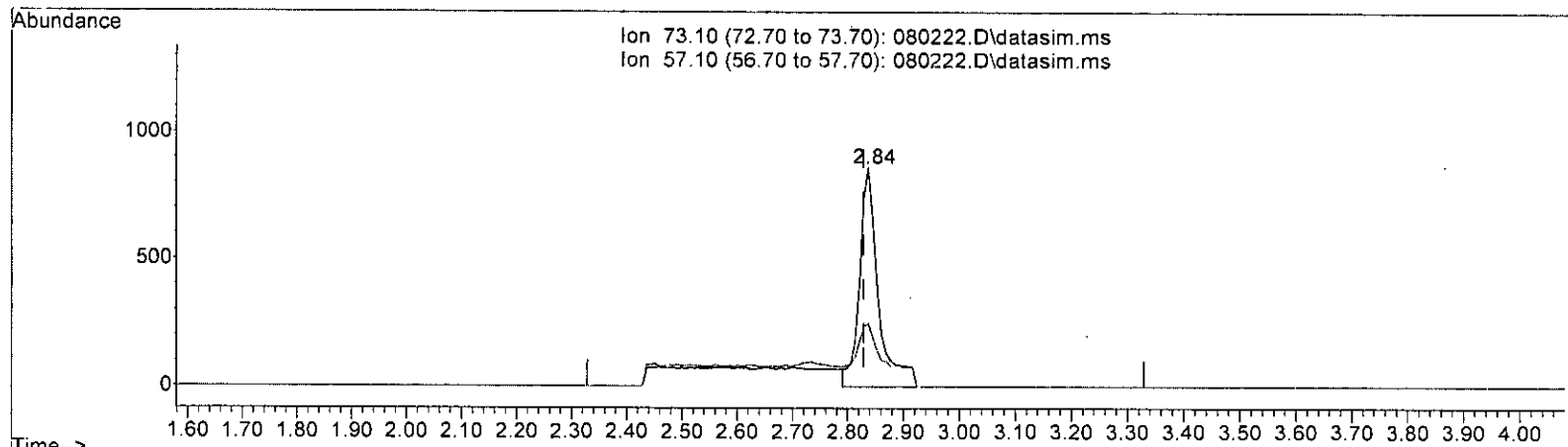
response 1362

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	48.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080222.D\data.ms

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

2.837min (+ 0.008) 0.128 ppb

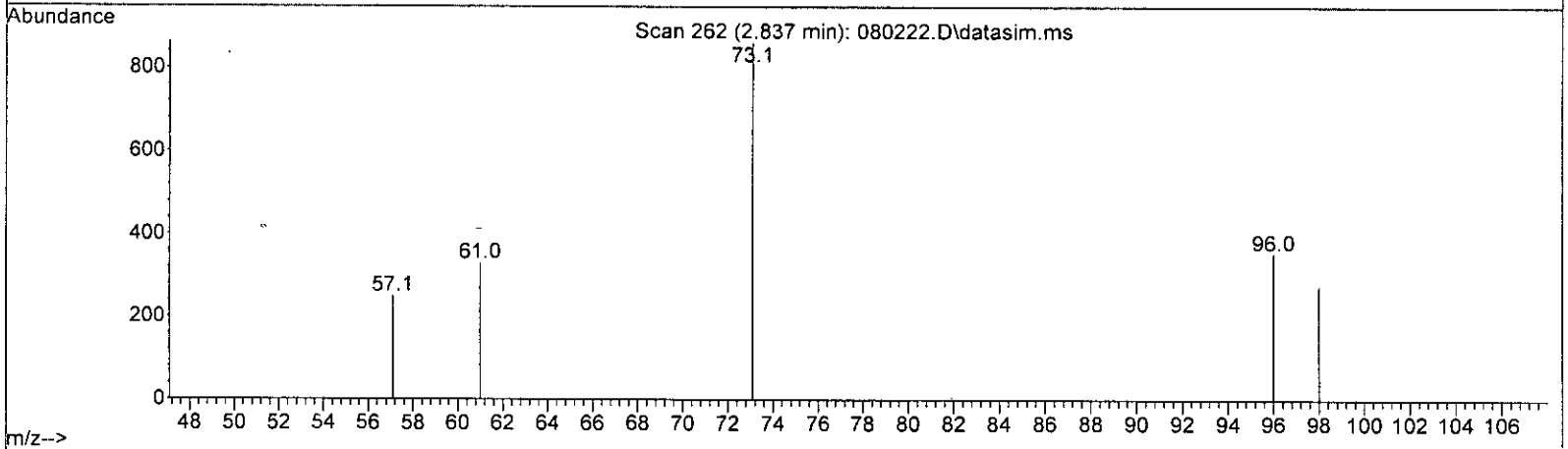
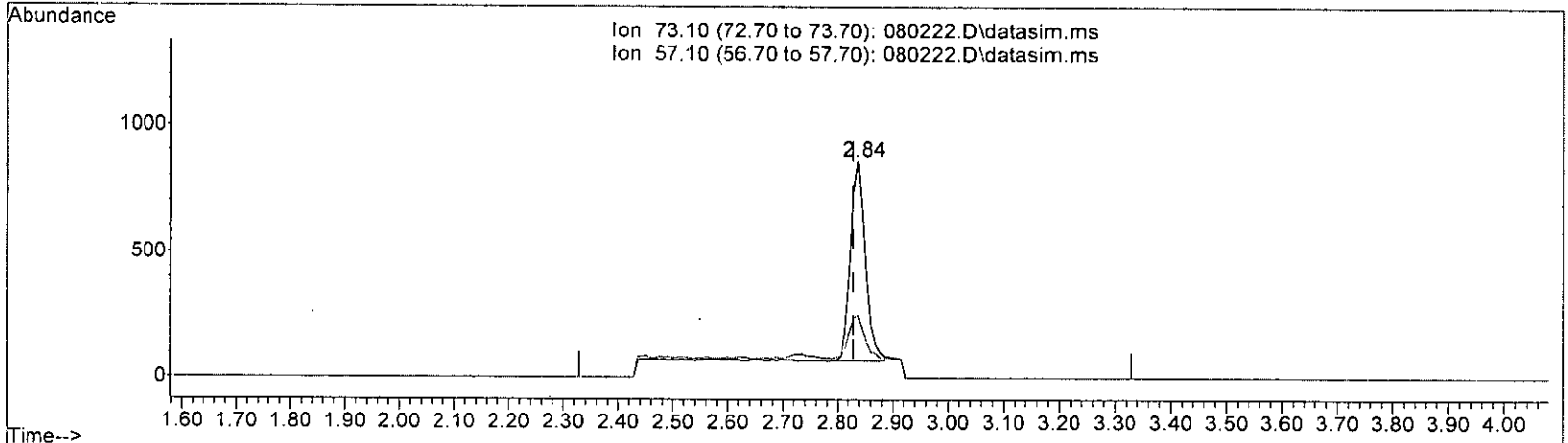
response 2012

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	28.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080222.D\data.ms

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

2.837min (+ 0.008) 0.093 ppb m

response 1464

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	28.95
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	97	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 S Dibromofluoromethane	10.000	9.985	0.2	99	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.21#
6 TMP Vinyl chloride	0.100	0.090	10.0	104	0.02
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.52#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	-1.000	0.000	0.0	0	-2.25#
12 TMP 1,1-Dichloroethene	0.100	0.096	4.0	107	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.04#
14 TMP Methylene chloride	-1.000	-0.108	0.0	0	0.00
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.72#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.093	7.0	99	0.00
17 TMP trans-1,2-Dichloroethene	0.100	0.093	7.0	101	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.100	0.097	3.0	104	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.54#
21 TMP 2,2-Dichloropropane	-1.000	0.007	0.0	0	0.00
22 TMP cis-1,2-Dichloroethene	0.100	0.098	2.0	103	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.93#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.69#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.48#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.094	6.0	101	0.00
27 TMP 1,1,1-Trichloroethane	0.100	0.095	5.0	108	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.21#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	9.981	0.2	93	0.00
31 TMP Benzene	0.100	0.093	7.0	103	0.00
32 TMP Trichloroethene	0.100	0.095	5.0	105	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.12#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	10.058	-0.6	97	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.22#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.90#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	98	0.00
40 TMP Toluene	0.100	0.091	9.0	111	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.24#
42 TMP 1,1,2-Trichloroethane	0.100	0.096	4.0	102	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.100	0.091	9.0	107	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.099	1.0	116	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.100	0.093	7.0	106	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.200	0.187	6.5	106	0.00
52 TMP o-Xylene	0.100	0.091	9.0	104	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.89#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.06#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	10.000	9.978	0.2	94	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.61#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.50#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.56#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.69#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.80#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.41#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.43#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.60#
75 TMP Naphthalene	0.100	0.099	1.0	93	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.91#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	97	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.275	-2.2	99	0.00
4 TMP Dichlorodifluoromethane	0.697	0.000#	100.0#	0#	-1.08#
5 TMP Chloromethane	0.636	0.000#	100.0#	0#	-1.21#
6 TMP Vinyl chloride	0.524	0.531	-1.3	104	0.02
7 TMP Bromomethane	0.407	0.000#	100.0#	0#	-1.52#
8 TMP Chloroethane	0.266	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.776	0.000#	100.0#	0#	-1.77#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.047	0.000#	100.0#	0#	-2.25#
12 TMP 1,1-Dichloroethene	0.351	0.378	-7.7	107	0.00
13 TMP Hexane	0.281	0.000#	100.0#	0#	-3.04#
14 TMP Methylene chloride	0.232	0.000#	100.0#	0#	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.000#	100.0#	0#	-2.72#
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.571	-2.1	99	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.274	-7.5	101	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.348	0.384	-10.3	104	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.000#	100.0#	0#	-3.54#
21 TMP 2,2-Dichloropropane	0.247	0.000#	100.0#	0#	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.298	-10.8	103	0.00
23 TMP Chloroform	0.384	0.000#	100.0#	0#	-3.93#
24 TMP 2-Butanone (MEK)	0.131	0.000#	100.0#	0#	-3.69#
25 TMP t-Amyl methyl ether (TAME)	0.541	0.000#	100.0#	0#	-4.48#
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.352	-11.4	101	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.400	-11.4	108	0.00
28 TMP 1,1-Dichloropropene	0.286	0.000#	100.0#	0#	-4.21#
29 TMP Carbon tetrachloride	0.317	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.063	0.062	1.6	93	0.00
31 TMP Benzene	0.840	0.911	-8.5	103	0.00
32 TMP Trichloroethene	0.274	0.303	-10.6	105	0.00
33 TMP 1,2-Dichloropropane	0.192	0.000#	100.0#	0#	-5.12#
34 TMP Bromodichloromethane	0.265	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.932	0.945	-1.4	97	0.00
36 TMP Dibromomethane	0.149	0.000#	100.0#	0#	-5.22#
37 TMP 4-Methyl-2-pentanone	0.042	0.000#	100.0#	0#	-5.90#
38 TMP cis-1,3-Dichloropropene	0.310	0.000#	100.0#	0#	-5.75#
39 I Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
40 TMP Toluene	0.774	0.848	-9.6	111	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.000#	100.0#	0#	-6.24#
42 TMP 1,1,2-Trichloroethane	0.216	0.230	-6.5	102	0.00
43 TMP 2-Hexanone	0.210	0.000#	100.0#	0#	-6.63#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.329	0.372	-13.1	107	0.00
46 TMP Dibromochloromethane	0.305	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.337	-7.3	116	0.00
48 TMP Chlorobenzene	0.846	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.339	1.464	-9.3	106	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.560	0.610	-8.9	106	0.00
52 TMP o-Xylene	0.553	0.581	-5.1	104	0.00
53 TMP Styrene	0.814	0.000#	100.0#	0#	-7.89#
54 TMP Isopropylbenzene	1.267	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.232	0.000#	100.0#	0#	-8.06#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	0.749	0.722	3.6	94	0.00
58 TMP n-Propylbenzene	2.492	0.000#	100.0#	0#	-8.61#
59 TMP Bromobenzene	0.689	0.000#	100.0#	0#	-8.50#
60 TMP 1,3,5-Trimethylbenzene	1.961	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.427	0.000#	100.0#	0#	-8.56#
63 TMP 2-Chlorotoluene	1.486	0.000#	100.0#	0#	-8.69#
64 TMP 4-Chlorotoluene	1.755	0.000#	100.0#	0#	-8.80#
65 TMP tert-Butylbenzene	1.793	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.030	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	2.486	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.169	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.287	0.000#	100.0#	0#	-9.41#
70 TMP 1,4-Dichlorobenzene	1.303	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.233	0.000#	100.0#	0#	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.922	0.000#	100.0#	0#	-11.43#
74 TMP Hexachlorobutadiene	0.469	0.000#	100.0#	0#	-11.60#
75 TMP Naphthalene	2.177	2.350	-7.9	93	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	0.000#	100.0#	0#	-11.91#

(#) = Out of Range

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



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	256552	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	205165	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	117936	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	70565	9.985	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery =	99.90%			
30) 1,2-Dichloroethane-d4	4.35	102	15966	9.981	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery =	99.80%			
35) Toluene-d8	5.97	98	242433	10.058	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery =	100.60%			
57) 4-Bromofluorobenzene	8.37	95	85174	9.978	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery =	99.80%			
Target Compounds							
2) Ethanol	1.94	45	132	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.30	62	1362m	0.090	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.40	45	1987	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	969	0.096	ppb	99	
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	2.61	84	2666	Below Cal		90	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.84	73	1464m	0.093	ppb		
17] trans-1,2-Dichloroethene	2.83	96	702	0.093	ppb	98	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.18	63	984	0.097	ppb	98	
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	3.65	77	1109	N.D.			
22] cis-1,2-Dichloroethene	3.67	96	764	0.098	ppb	93	
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.41	62	903	0.094	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	1025	0.095	ppb	93	
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.38	78	2338	0.093	ppb	97	
32] Trichloroethene	4.93	95	778	0.095	ppb	# 79	
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

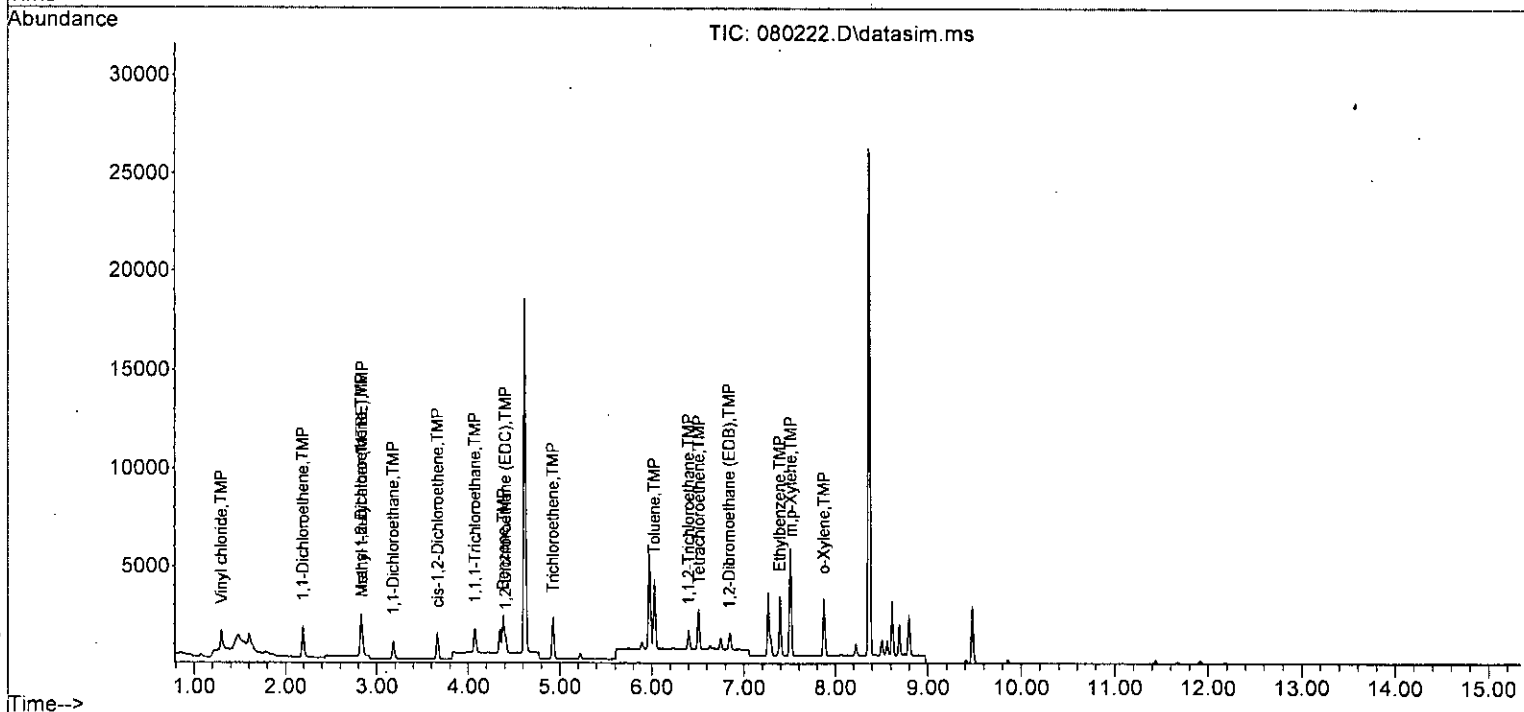
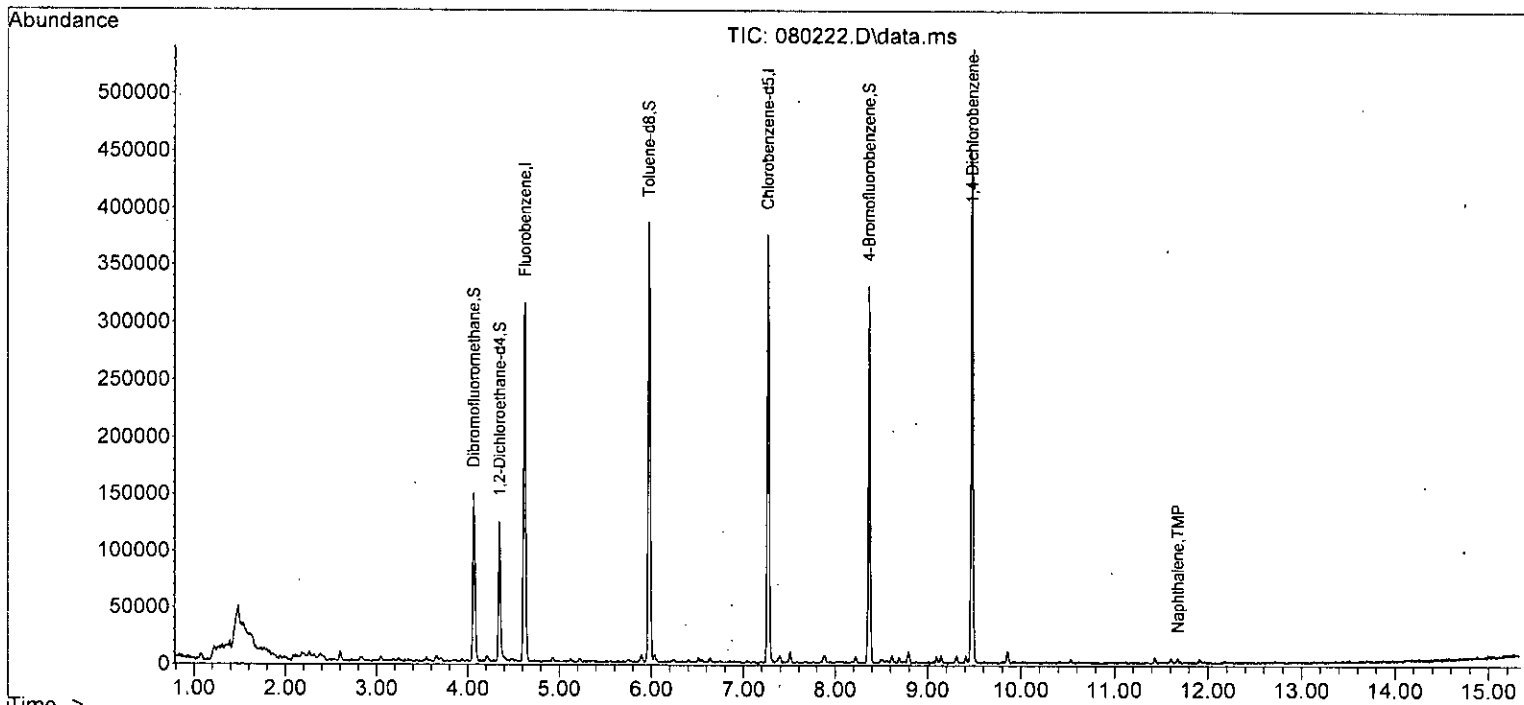
Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	1740	0.091	ppb	97
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.40	83	472	0.096	ppb	97
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	763	0.091	ppb	95
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.84	107	691	0.099	ppb	98
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.39	91	3003	0.093	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.51	106	2503	0.187	ppb #	79
52] o-Xylene	7.87	106	1191	0.091	ppb	94
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.68	128	2772	0.099	ppb	88
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080222.D  
 Acq On : 02 Aug 2023 05:42 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

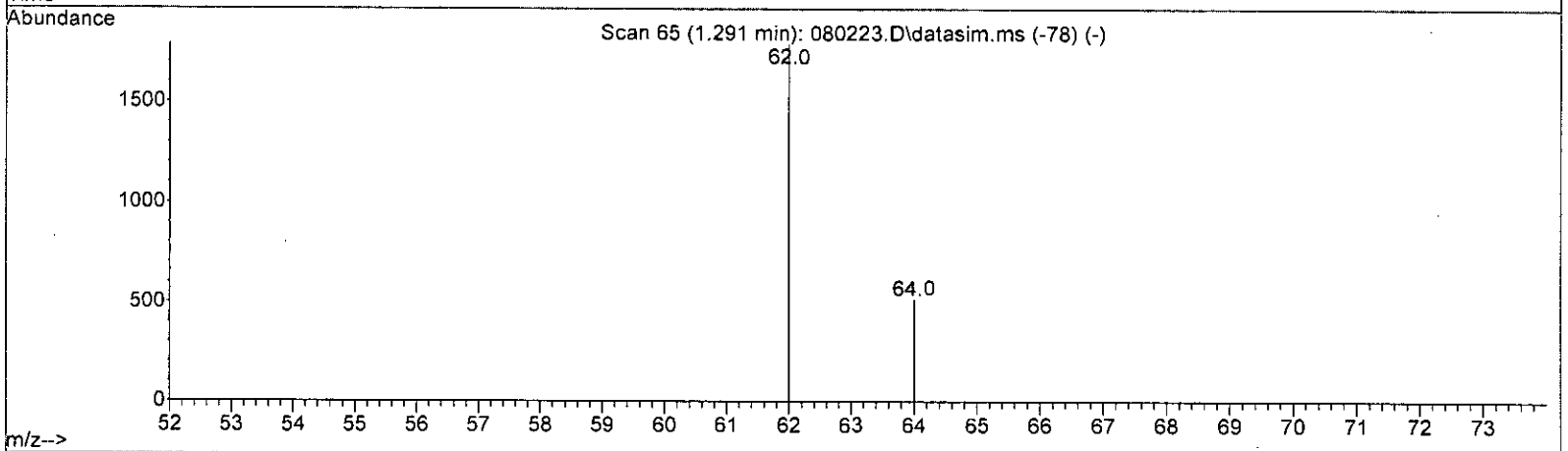
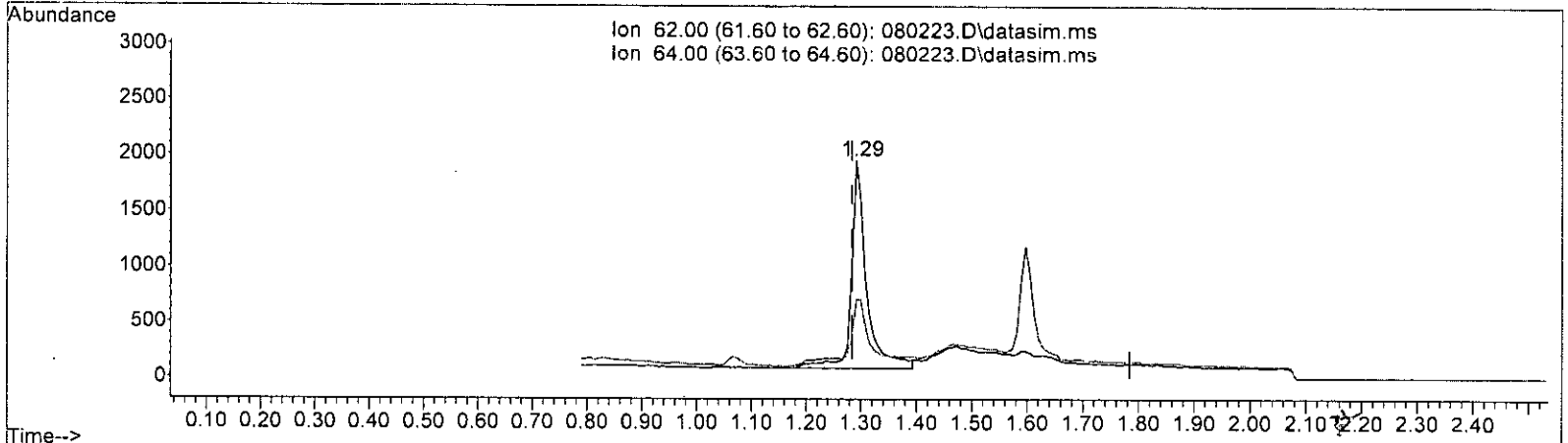
Quant Time: Aug 03 09:53:41 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080223.D\data.ms

(6) Vinyl chloride (TMP)

1.291min (+ 0.007) 0.239 ppb

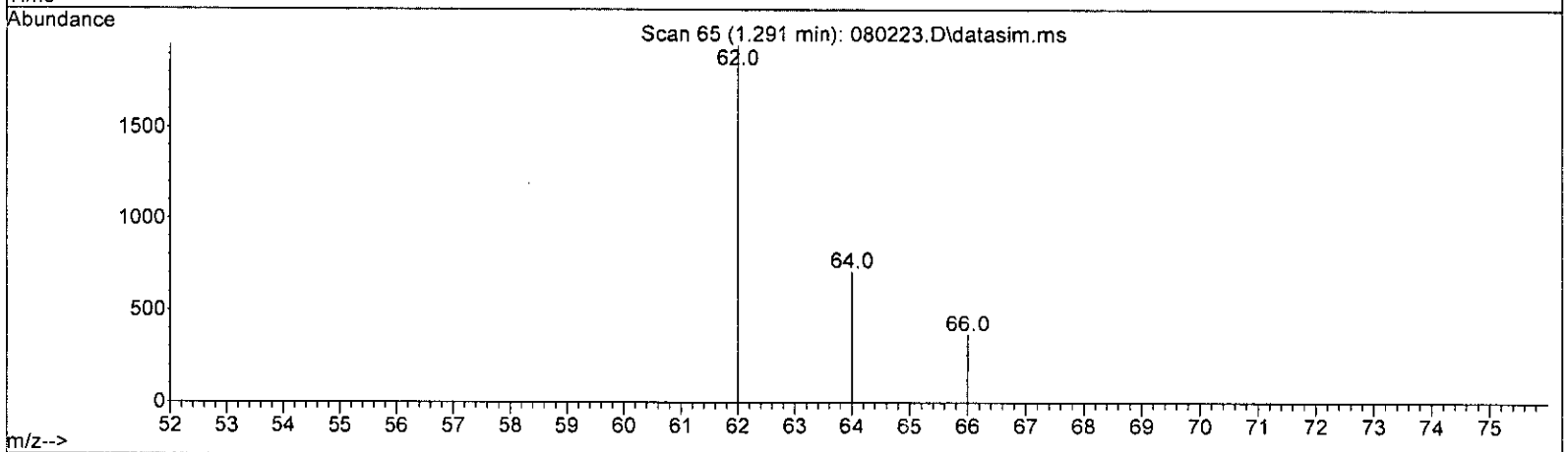
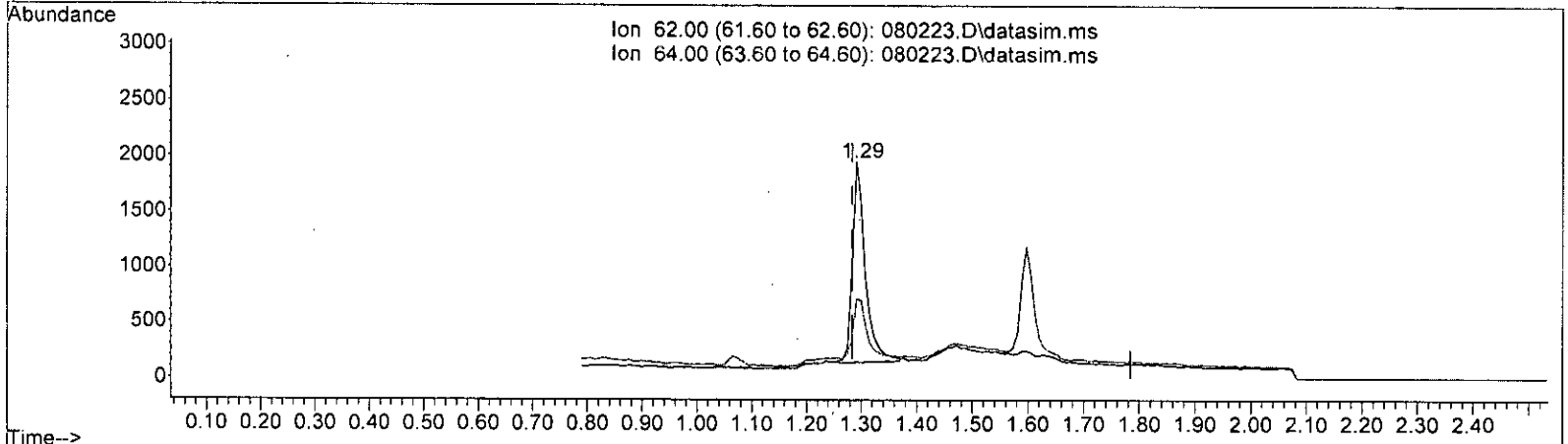
response 3582

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	32.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080223.D\data.ms

(6) Vinyl chloride (TMP)

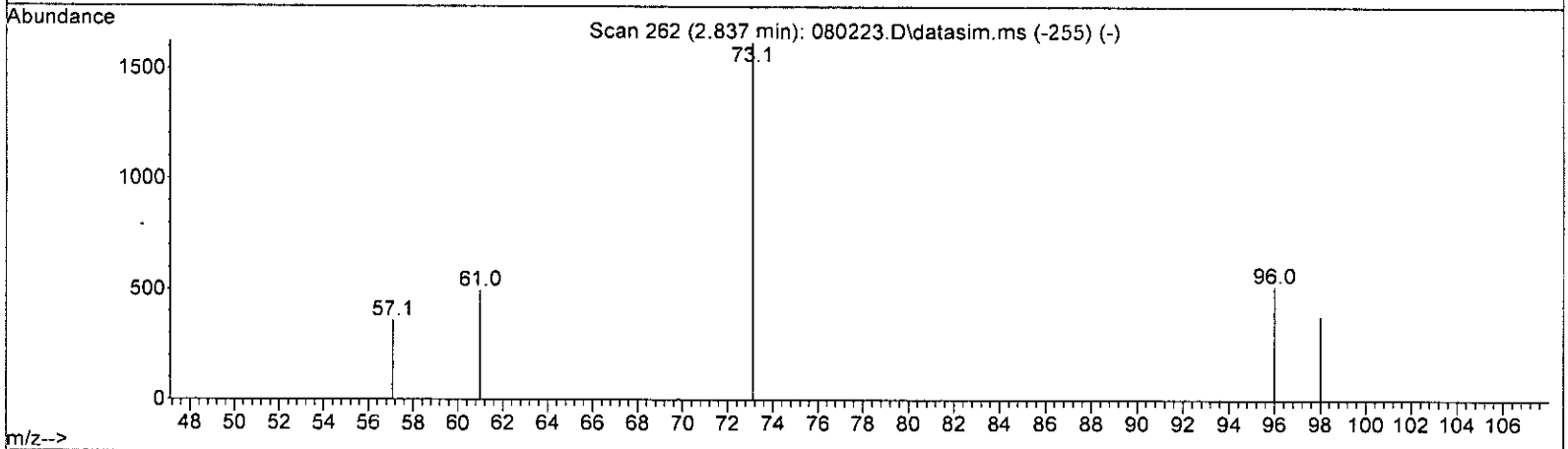
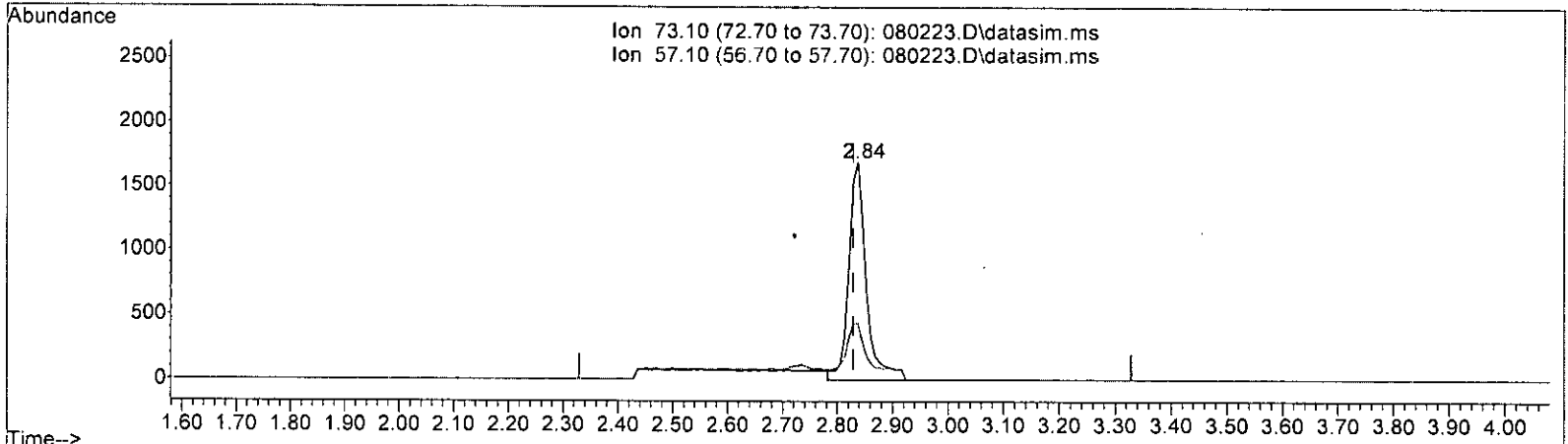
1.291min (+ 0.007) 0.191 ppb m

response	2866	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	36.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080223.D\data.ms

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

2.837min (+ 0.008) 0.235 ppb

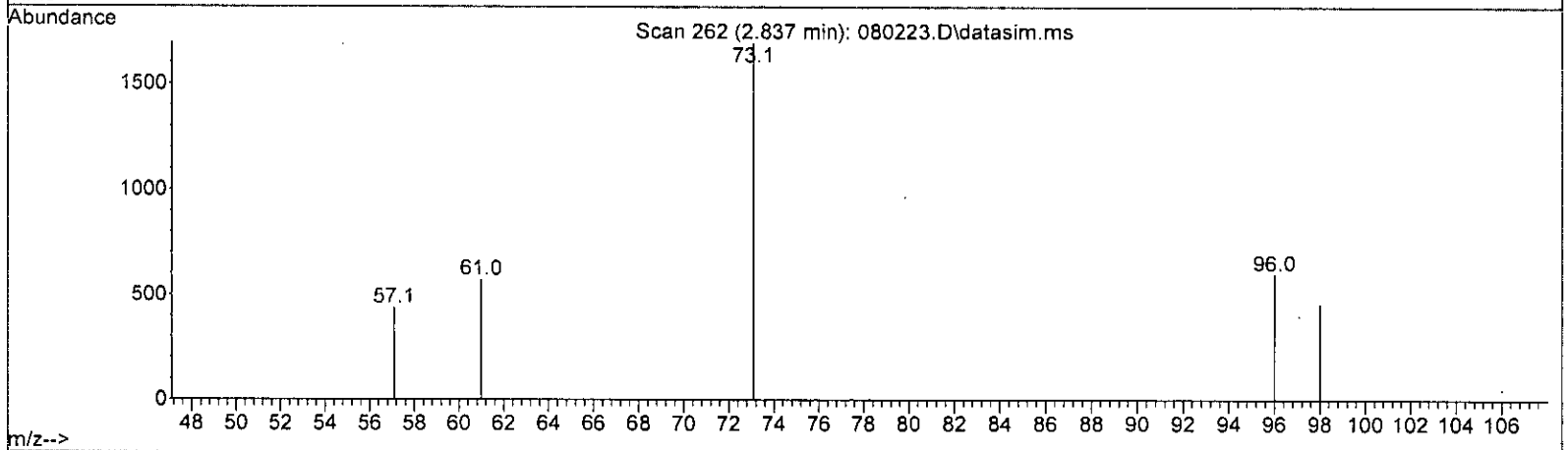
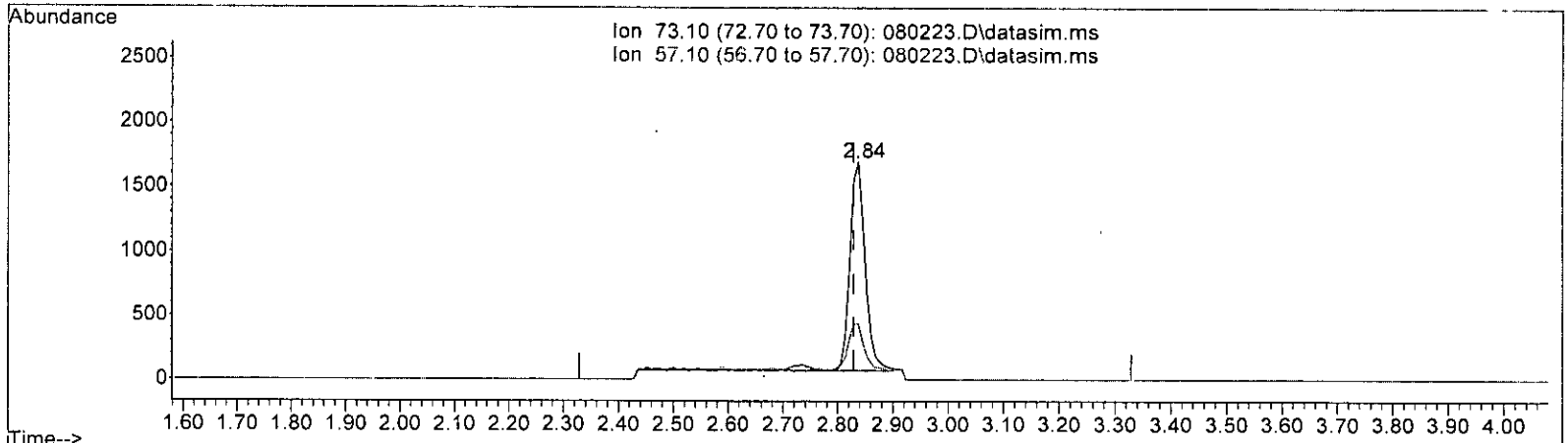
response 3656

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	25.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080223.D\data.ms

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

2.837min (+ 0.008) 0.198 ppb m

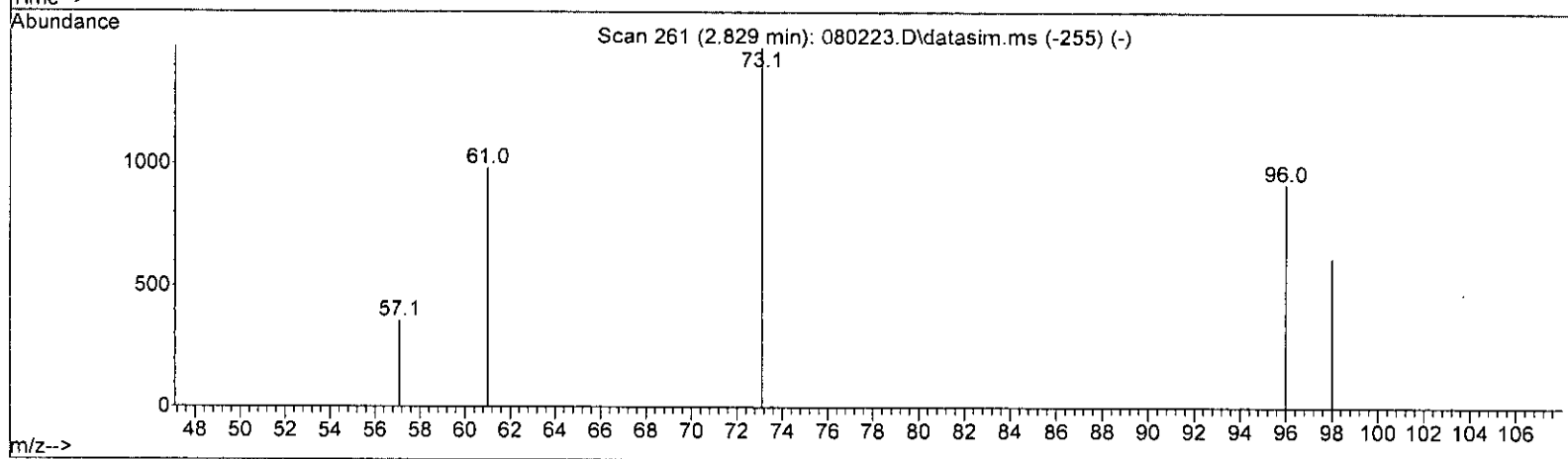
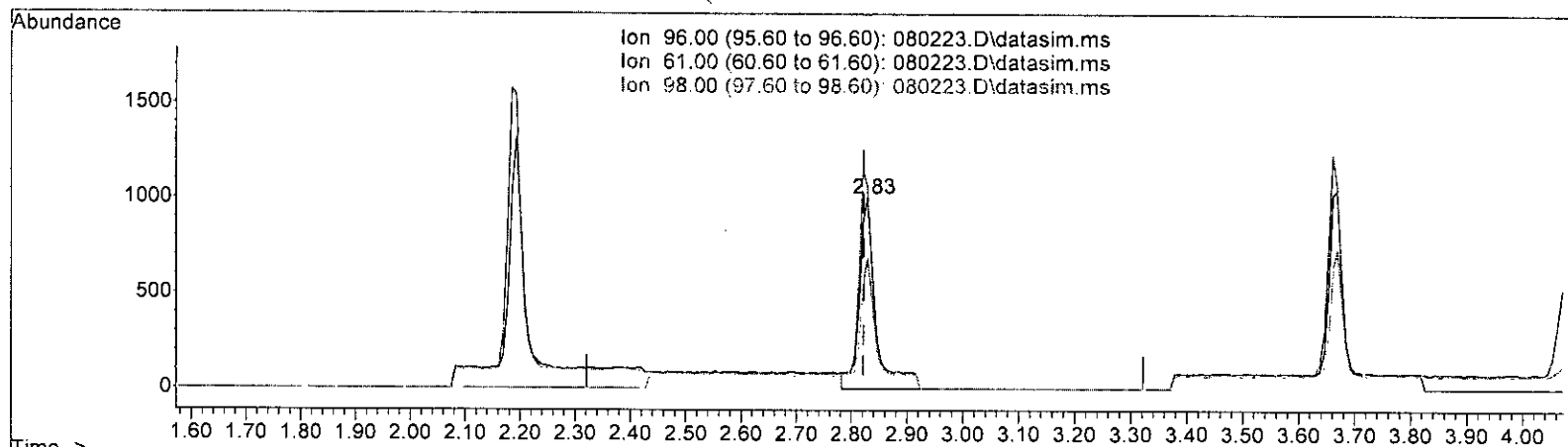
response 3076

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	25.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080223.D\data.ms

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

2.829min (+ 0.007) 0.293 ppb

response 2044

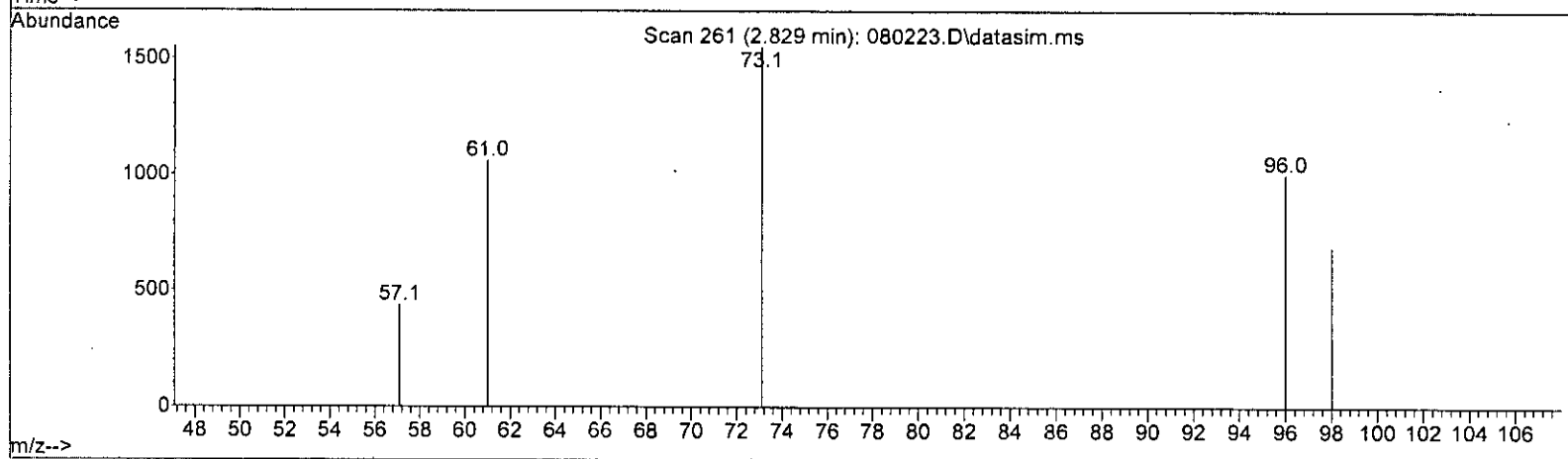
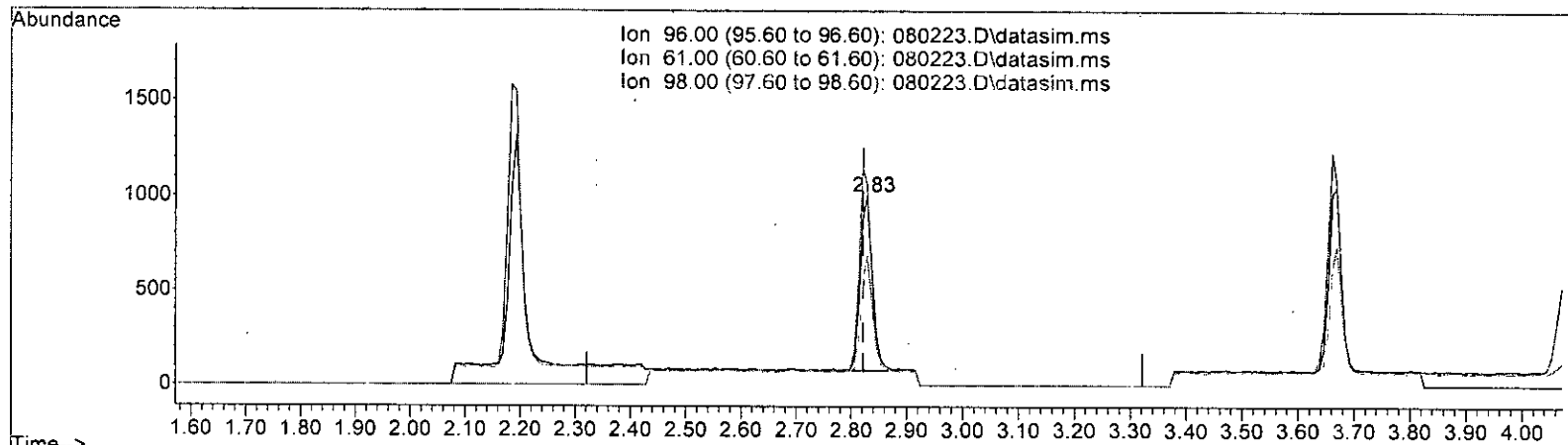
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	105.69
98.00	65.30	68.53
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080223.D\data.ms

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

2.829min (+ 0.007) 0.197 ppb m

response 1396

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	105.69
98.00	65.30	68.53
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	95	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.00
3 S	Dibromofluoromethane	10.000	9.897	1.0	95	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.21#
6 TMP	Vinyl chloride	0.200	0.191	4.5	107	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.52#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	0.200	0.254	-27.0#	123	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.25#
12 TMP	1,1-Dichloroethene	0.200	0.198	1.0	96	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.04#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.72#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.198	1.0	97	0.00
17 TMP	trans-1,2-Dichloroethene	0.200	0.197	1.5	102	0.00
18 TMP	Diisopropyl ether (DIPE)	0.200	0.198	1.0	117	0.00
19 TMP	1,1-Dichloroethane	0.200	0.199	0.5	105	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.199	0.5	110	0.00
21 TMP	2,2-Dichloropropane	0.200	0.123	38.5#	98	0.02
22 TMP	cis-1,2-Dichloroethene	0.200	0.197	1.5	107	0.00
23 TMP	Chloroform	0.200	0.238	-19.0	113	0.00
24 TMP	2-Butanone (MEK)	1.000	1.177	-17.7	104	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.209	-4.5	84	0.02
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.202	-1.0	104	0.00
27 TMP	1,1,1-Trichloroethane	0.200	0.198	1.0	109	0.00
28 TMP	1,1-Dichloropropene	0.200	0.247	-23.5#	122	0.00
29 TMP	Carbon tetrachloride	0.200	0.258	-29.0#	138	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.607	3.9	93	0.00
31 TMP	Benzene	0.200	0.202	-1.0	106	0.00
32 TMP	Trichloroethene	0.200	0.201	-0.5	108	0.00
33 TMP	1,2-Dichloropropane	0.200	0.250	-25.0#	137	0.00
34 TMP	Bromodichloromethane	0.200	0.197	1.5	109	0.00
35 S	Toluene-d8	10.000	9.877	1.2	96	0.00
36 TMP	Dibromomethane	0.200	0.188	6.0	77	0.00
37 TMP	4-Methyl-2-pentanone	-1.000	1.025	0.0	0	0.01
38 TMP	cis-1,3-Dichloropropene	0.200	0.233	-16.5	123	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	95	0.00
40 TMP	Toluene	0.200	0.204	-2.0	109	0.00
41 TMP	trans-1,3-Dichloropropene	0.200	0.185	7.5	80	0.00
42 TMP	1,1,2-Trichloroethane	0.200	0.202	-1.0	108	0.00
43 TMP	2-Hexanone	-1.000	0.925	0.0	0	0.01

OK 8/3 JLM

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.210	-5.0	95	0.00
45 TMP Tetrachloroethene	0.200	0.204	-2.0	110	0.00
46 TMP Dibromochloromethane	0.200	0.221	-10.5	110	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.201	-0.5	106	0.00
48 TMP Chlorobenzene	0.200	0.230	-15.0	119	0.00
49 TMP Ethylbenzene	0.200	0.204	-2.0	108	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.160	20.0#	82	0.00
51 TMP m,p-Xylene	0.400	0.403	-0.8	107	0.00
52 TMP o-Xylene	0.200	0.199	0.5	107	0.00
53 TMP Styrene	0.200	0.221	-10.5	152	0.00
54 TMP Isopropylbenzene	0.200	0.190	5.0	94	0.00
55 TMP Bromoform	0.200	0.176	12.0	79	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	10.000	10.082	-0.8	91	0.00
58 TMP n-Propylbenzene	0.200	0.200	0.0	99	0.00
59 TMP Bromobenzene	0.200	0.207	-3.5	106	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.198	1.0	93	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.212	-6.0	97	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.198	1.0	96	0.00
63 TMP 2-Chlorotoluene	0.200	0.202	-1.0	89	0.00
64 TMP 4-Chlorotoluene	0.200	0.233	-16.5	100	0.00
65 TMP tert-Butylbenzene	0.200	0.194	3.0	102	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.201	-0.5	98	0.00
67 TMP sec-Butylbenzene	0.200	0.208	-4.0	121	0.00
68 TMP p-Isopropyltoluene	0.200	0.204	-2.0	132	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.201	-0.5	105	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.206	-3.0	93	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.215	-7.5	112	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.219	-9.5	101	0.00
74 TMP Hexachlorobutadiene	0.200	0.196	2.0	87	0.00
75 TMP Naphthalene	0.200	0.200	0.0	111	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.230	-15.0	106	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.00
3 S	Dibromofluoromethane	0.269	0.273	-1.5	95	0.00
4 TMP	Dichlorodifluoromethane	0.697	0.000#	100.0#	0#	-1.08#
5 TMP	Chloromethane	0.636	0.000#	100.0#	0#	-1.21#
6 TMP	Vinyl chloride	0.524	0.564	-7.6	107	0.00
7 TMP	Bromomethane	0.407	0.000#	100.0#	0#	-1.52#
8 TMP	Chloroethane	0.266	0.000#	100.0#	0#	-1.59#
9 TMP	Trichlorofluoromethane	0.776	1.168	-50.5#	123	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.047	0.000#	100.0#	0#	-2.25#
12 TMP	1,1-Dichloroethene	0.351	0.376	-7.1	96	0.00
13 TMP	Hexane	0.281	0.000#	100.0#	0#	-3.04#
14 TMP	Methylene chloride	0.232	0.000#	100.0#	0#	-2.60#
15 TMP	t-Butyl alcohol (TBA)	0.026	0.000#	100.0#	0#	-2.72#
16 TMP	Methyl t-butyl ether (MTBE)	0.559	0.605	-8.2	97	0.00
17 TMP	trans-1,2-Dichloroethene	0.255	0.275	-7.8	102	0.00
18 TMP	Diisopropyl ether (DIPE)	0.591	0.659	-11.5	117	0.00
19 TMP	1,1-Dichloroethane	0.348	0.396	-13.8	105	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.257	0.288	-12.1	110	0.00
21 TMP	2,2-Dichloropropane	0.247	0.358	-44.9#	98	0.02
22 TMP	cis-1,2-Dichloroethene	0.269	0.301	-11.9	107	0.00
23 TMP	Chloroform	0.384	0.516	-34.4#	113	0.00
24 TMP	2-Butanone (MEK)	0.131	0.174	-32.8#	104	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.541	0.598	-10.5	84	0.02
26 TMP	1,2-Dichloroethane (EDC)	0.316	0.330	-4.4	104	0.00
27 TMP	1,1,1-Trichloroethane	0.359	0.414	-15.3	109	0.00
28 TMP	1,1-Dichloropropene	0.286	0.411	-43.7#	122	0.00
29 TMP	Carbon tetrachloride	0.317	0.498	-57.1#	138	0.00
30 S	1,2-Dichloroethane-d4	0.063	0.060	4.8	93	0.00
31 TMP	Benzene	0.840	0.938	-11.7	106	0.00
32 TMP	Trichloroethene	0.274	0.308	-12.4	108	0.00
33 TMP	1,2-Dichloropropane	0.192	0.277	-44.3#	137	0.00
34 TMP	Bromodichloromethane	0.265	0.296	-11.7	109	0.00
35 S	Toluene-d8	0.932	0.928	0.4	96	0.00
36 TMP	Dibromomethane	0.149	0.155	-4.0	77	0.00
37 TMP	4-Methyl-2-pentanone	0.042	0.000#	100.0#	0#	0.01
38 TMP	cis-1,3-Dichloropropene	0.310	0.411	-32.6#	123	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
40 TMP	Toluene	0.774	0.869	-12.3	109	0.00
41 TMP	trans-1,3-Dichloropropene	0.354	0.361	-2.0	80	0.00
42 TMP	1,1,2-Trichloroethane	0.216	0.243	-12.5	108	0.00
43 TMP	2-Hexanone	0.210	0.000#	100.0#	0#	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.421	-16.6	95	0.00
45 TMP Tetrachloroethene	0.329	0.380	-15.5	110	0.00
46 TMP Dibromochloromethane	0.305	0.379	-24.3#	110	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.327	-4.1	106	0.00
48 TMP Chlorobenzene	0.846	1.121	-32.5#	119	0.00
49 TMP Ethylbenzene	1.339	1.513	-13.0	108	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.274	7.4	82	0.00
51 TMP m,p-Xylene	0.560	0.627	-12.0	107	0.00
52 TMP o-Xylene	0.553	0.613	-10.8	107	0.00
53 TMP Styrene	0.814	1.063	-30.6#	152	0.00
54 TMP Isopropylbenzene	1.267	1.376	-8.6	94	0.00
55 TMP Bromoform	0.232	0.220	5.2	79	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	0.749	0.730	2.5	91	0.00
58 TMP n-Propylbenzene	2.492	2.858	-14.7	99	0.00
59 TMP Bromobenzene	0.689	0.810	-17.6	106	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.157	-10.0	93	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.661	-14.8	97	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.447#	-4.7	96	0.00
63 TMP 2-Chlorotoluene	1.486	1.659	-11.6	89	0.00
64 TMP 4-Chlorotoluene	1.755	2.300	-31.1#	100	0.00
65 TMP tert-Butylbenzene	1.793	1.972	-10.0	102	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.292	-12.9	98	0.00
67 TMP sec-Butylbenzene	2.486	3.043	-22.4#	121	0.00
68 TMP p-Isopropyltoluene	2.169	2.613	-20.5#	132	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.491	-15.9	105	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.510	-15.9	93	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.525	-23.7#	112	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.922	1.166	-26.5#	101	0.00
74 TMP Hexachlorobutadiene	0.469	0.562	-19.8	87	0.00
75 TMP Naphthalene	2.177	2.366	-8.7	111	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	1.129	-31.4#	106	0.00

(#) = Out of Range

SPCC's out = 13 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	254051	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.26	117	200471	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	114532	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	69262	9.897	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery =	99.00%			
30) 1,2-Dichloroethane-d4	4.35	102	15218	9.607	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery =	96.10%			
35) Toluene-d8	5.97	98	235730	9.877	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery =	98.80%			
57) 4-Bromofluorobenzene	8.37	95	83574	10.082	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery =	100.80%			
Target Compounds							
							Qvalue
2) Ethanol	1.95	45	274	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.29	62	2866m	0.191	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	1.77	101	5933	0.254	ppb		96
10) 2-Propanol	2.39	45	2014	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	1910	0.198	ppb		99
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.84	73	3076m	0.198	ppb		
17] trans-1,2-Dichloroethene	2.83	96	1396m	0.197	ppb		
18) Diisopropyl ether (DIPE)	3.24	45	3347	0.198	ppb		86
19] 1,1-Dichloroethane	3.18	63	2010	0.199	ppb		99
20) Ethyl t-butyl ether (E...)	3.55	87	1461	0.199	ppb		82
21) 2,2-Dichloropropane	3.67	77	1817	0.123	ppb		75
22] cis-1,2-Dichloroethene	3.67	96	1528	0.197	ppb		93
23) Chloroform	3.94	83	2621	0.238	ppb		87
24) 2-Butanone (MEK)	3.70	43	4423	1.177	ppb		83
25) t-Amyl methyl ether (T...)	4.50	73	3037	0.209	ppb		85
26] 1,2-Dichloroethane (EDC)	4.41	62	1677	0.202	ppb		98
27] 1,1,1-Trichloroethane	4.08	97	2104	0.198	ppb		92
28) 1,1-Dichloropropene	4.22	75	2089	0.247	ppb		75
29) Carbon tetrachloride	4.21	117	2532	0.258	ppb		76
31] Benzene	4.38	78	4766	0.202	ppb		97
32] Trichloroethene	4.93	95	1565	0.201	ppb		83
33) 1,2-Dichloropropane	5.13	63	1409	0.250	ppb	#	83
34) Bromodichloromethane	5.37	83	1502	0.197	ppb	#	43
36) Dibromomethane	5.22	93	789	0.188	ppb		92

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

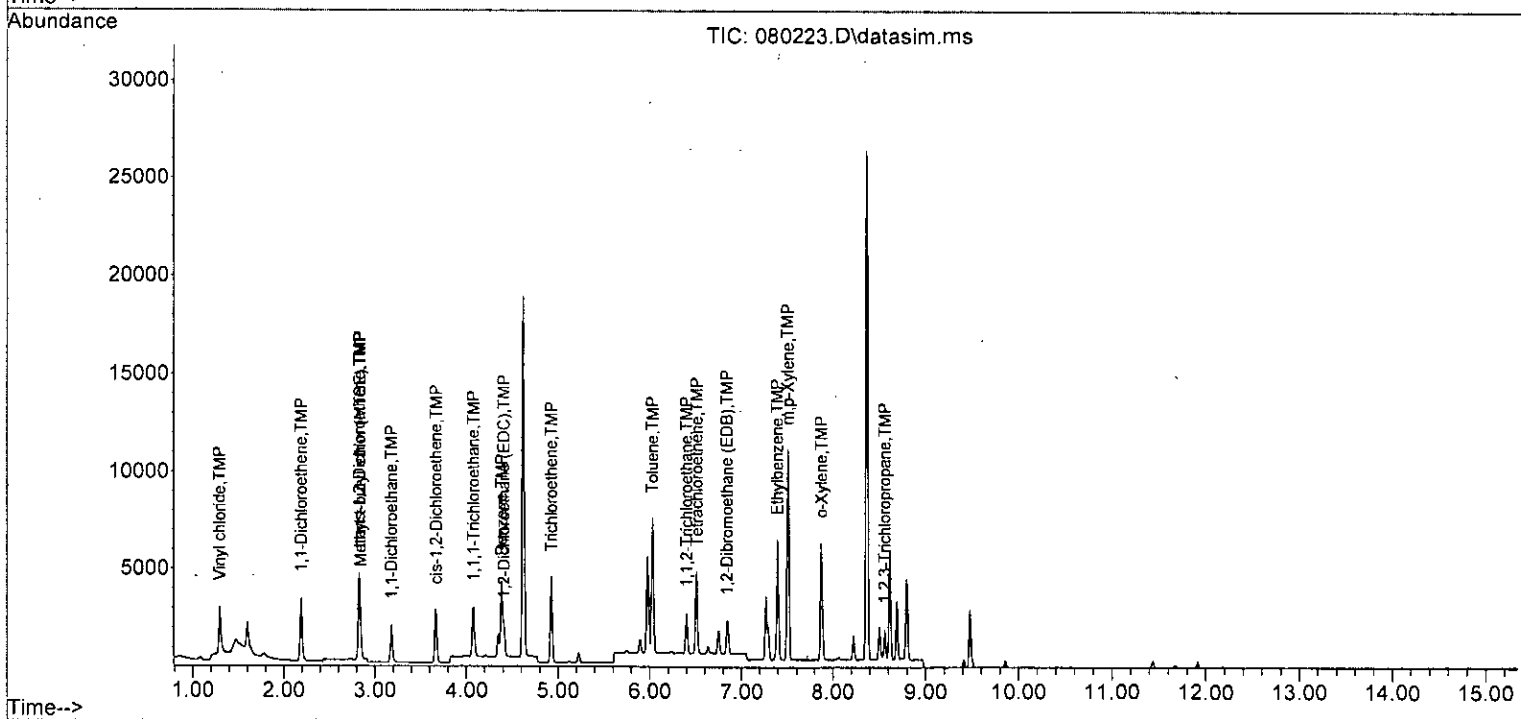
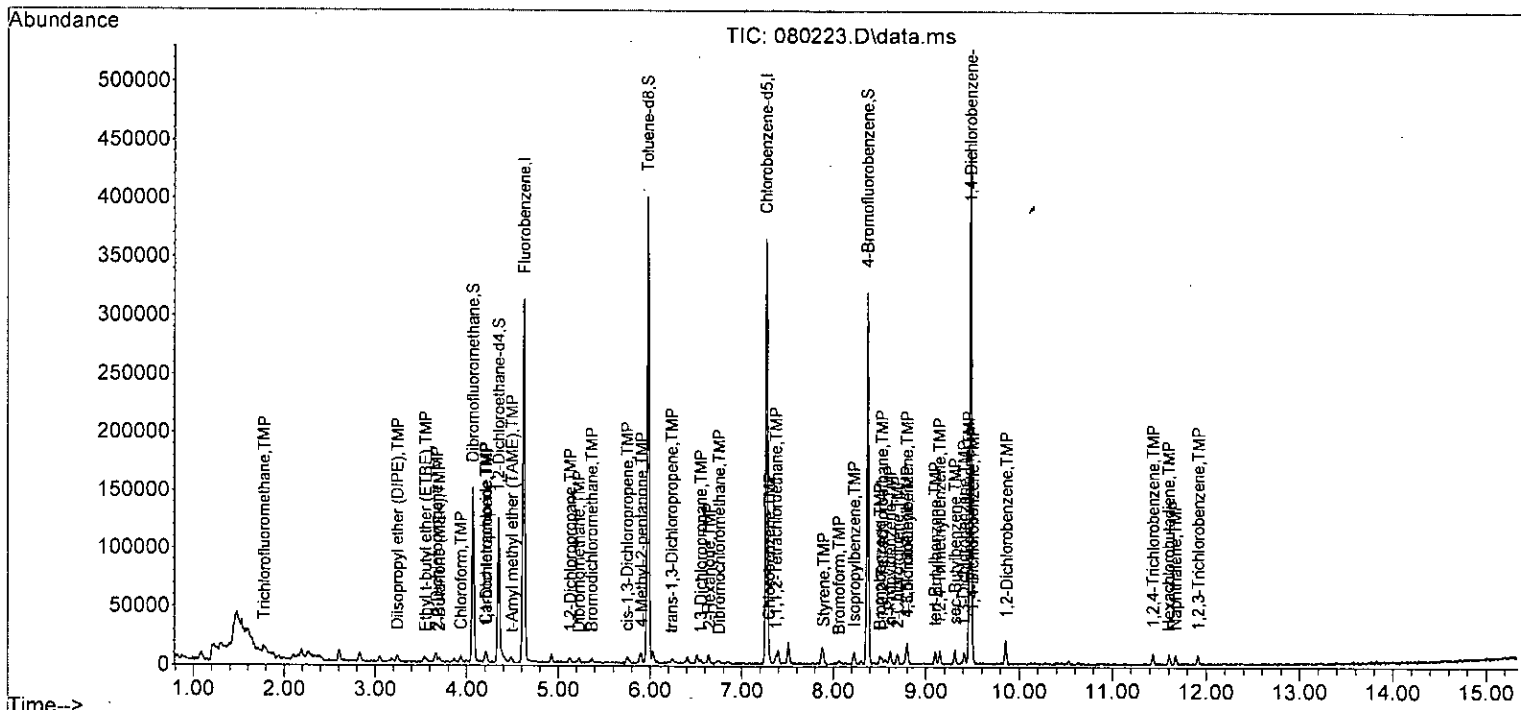
Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	1170	1.025	ppb #	63
38) cis-1,3-Dichloropropene	5.75	75	2089	0.233	ppb	87
40] Toluene	6.03	92	3486	0.204	ppb	97
41) trans-1,3-Dichloropropene	6.24	75	1448	0.185	ppb	85
42] 1,1,2-Trichloroethane	6.40	83	973	0.202	ppb	94
43) 2-Hexanone	6.64	43	4311	0.925	ppb	97
44) 1,3-Dichloropropane	6.55	76	1687	0.210	ppb	92
45] Tetrachloroethene	6.51	164	1524	0.204	ppb	98
46) Dibromochloromethane	6.75	129	1521	0.221	ppb	89
47] 1,2-Dibromoethane (EDB)	6.84	107	1310	0.201	ppb	100
48) Chlorobenzene	7.30	112	4496	0.230	ppb	88
49] Ethylbenzene	7.39	91	6068	0.204	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	1097	0.160	ppb #	82
51] m,p-Xylene	7.50	106	5029	0.403	ppb	99
52] o-Xylene	7.87	106	2457	0.199	ppb	99
53) Styrene	7.90	104	4264	0.221	ppb	74
54) Isopropylbenzene	8.23	105	5518	0.190	ppb	94
55) Bromoform	8.06	173	884	0.176	ppb	72
58) n-Propylbenzene	8.61	91	6546	0.200	ppb	89
59) Bromobenzene	8.50	156	1856	0.207	ppb	89
60) 1,3,5-Trimethylbenzene	8.80	105	4942	0.198	ppb	87
61) 1,1,2,2-Tetrachloroethane	8.53	83	1513	0.212	ppb	90
62] 1,2,3-Trichloropropane	8.56	75	1024	0.198	ppb	96
63) 2-Chlorotoluene	8.69	91	3801	0.202	ppb	95
64) 4-Chlorotoluene	8.80	91	5269	0.233	ppb	97
65) tert-Butylbenzene	9.10	119	4518	0.194	ppb	80
66) 1,2,4-Trimethylbenzene	9.15	105	5251	0.201	ppb	100
67) sec-Butylbenzene	9.31	105	6970	0.208	ppb	95
68) p-Isopropyltoluene	9.46	119	5985	0.204	ppb	91
69) 1,3-Dichlorobenzene	9.41	146	3415	0.201	ppb	89
70) 1,4-Dichlorobenzene	9.50	146	3460	0.206	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	3493	0.215	ppb	84
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.43	180	2670	0.219	ppb	94
74) Hexachlorobutadiene	11.60	225	1287	0.196	ppb	80
75) Naphthalene	11.67	128	5419	0.200	ppb	91
76) 1,2,3-Trichlorobenzene	11.92	180	2586	0.230	ppb	84

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080223.D  
 Acq On : 02 Aug 2023 06:05 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:43 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

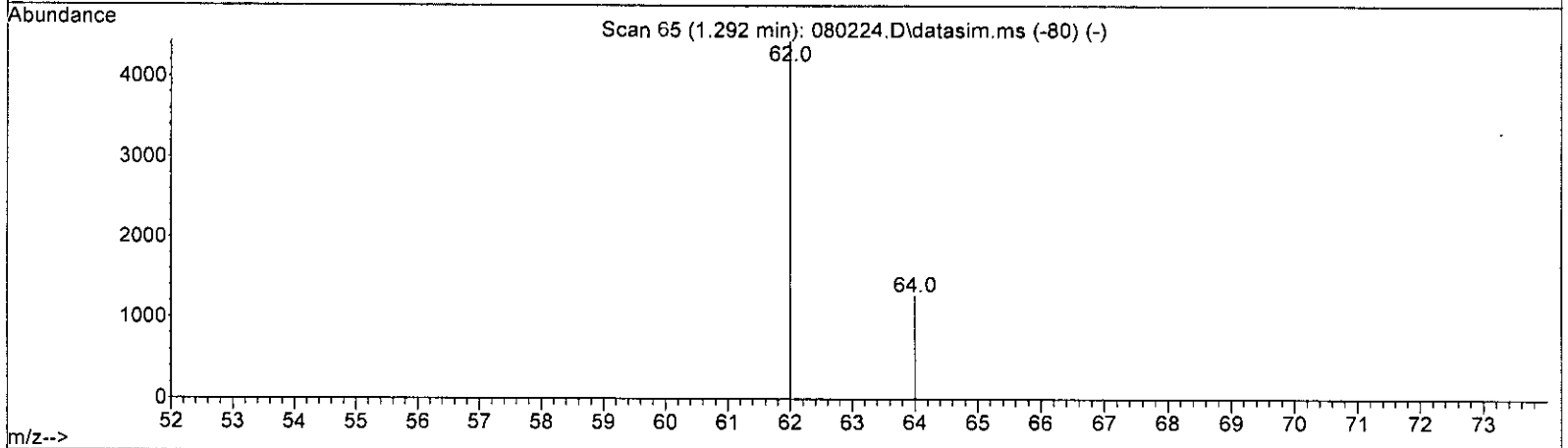
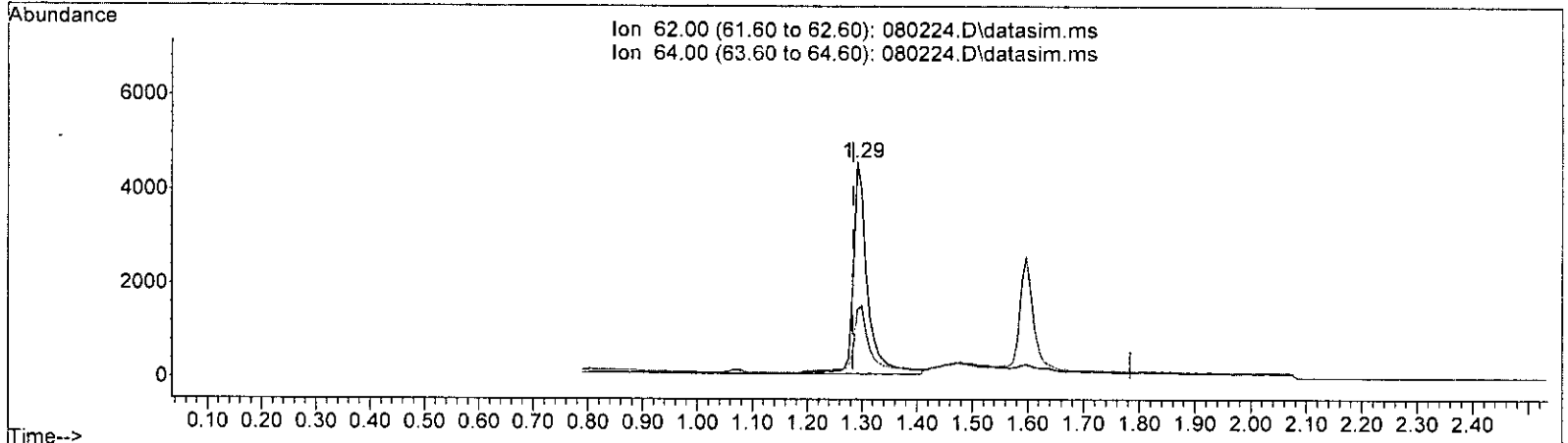




Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

(6) Vinyl chloride (TMP)

1.292min (+ 0.008) 0.554 ppb

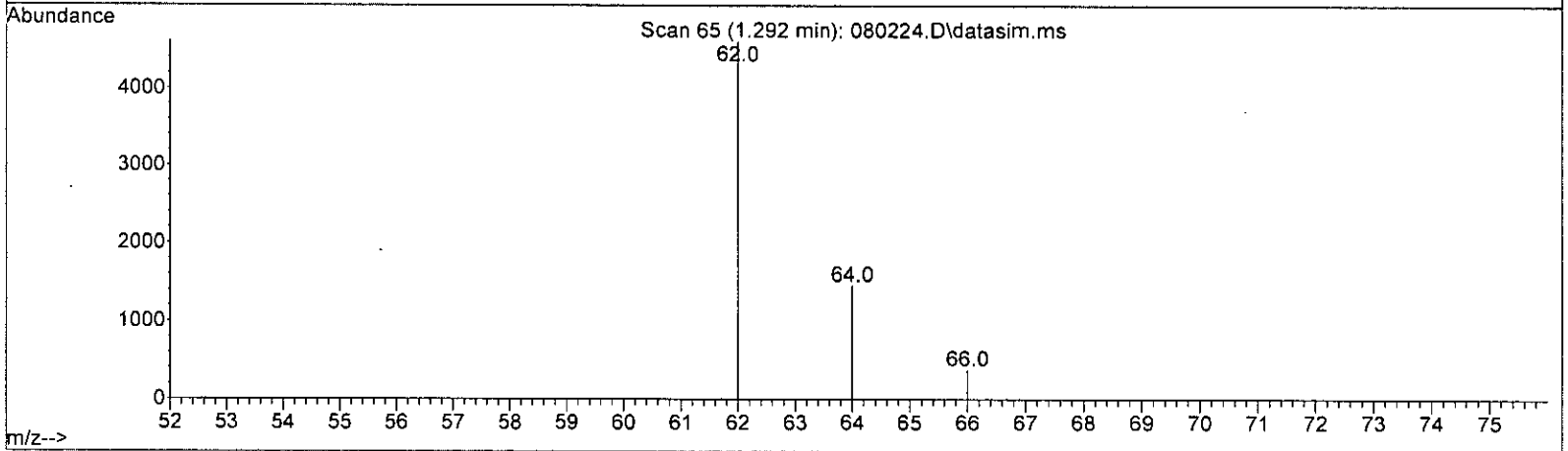
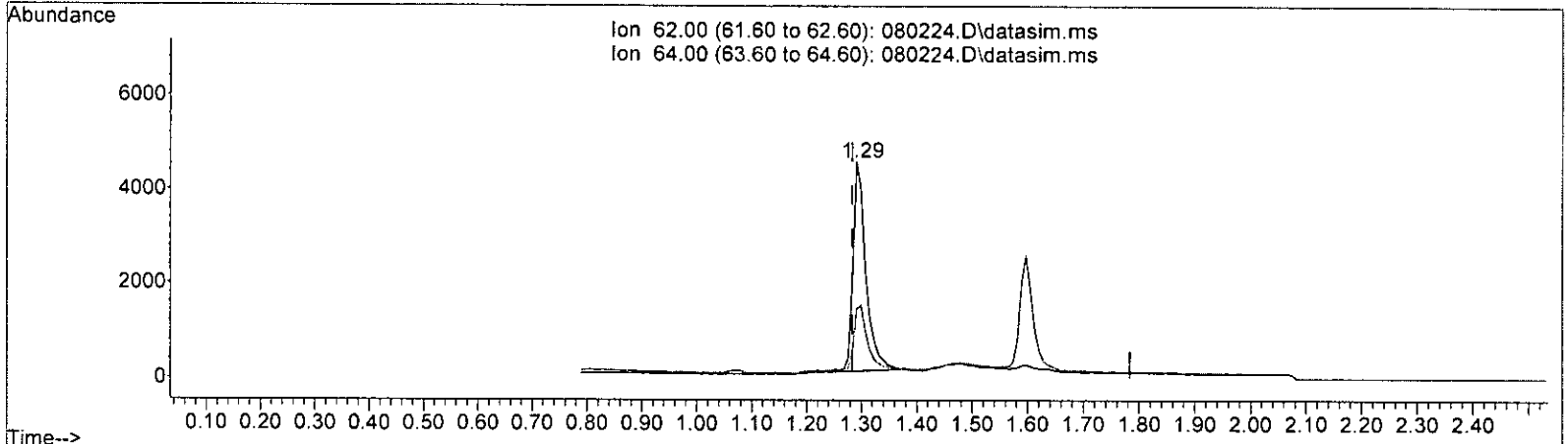
response 8135

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	29.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

(6) Vinyl chloride (TMP)

1.292min (+ 0.008) 0.485 ppb m

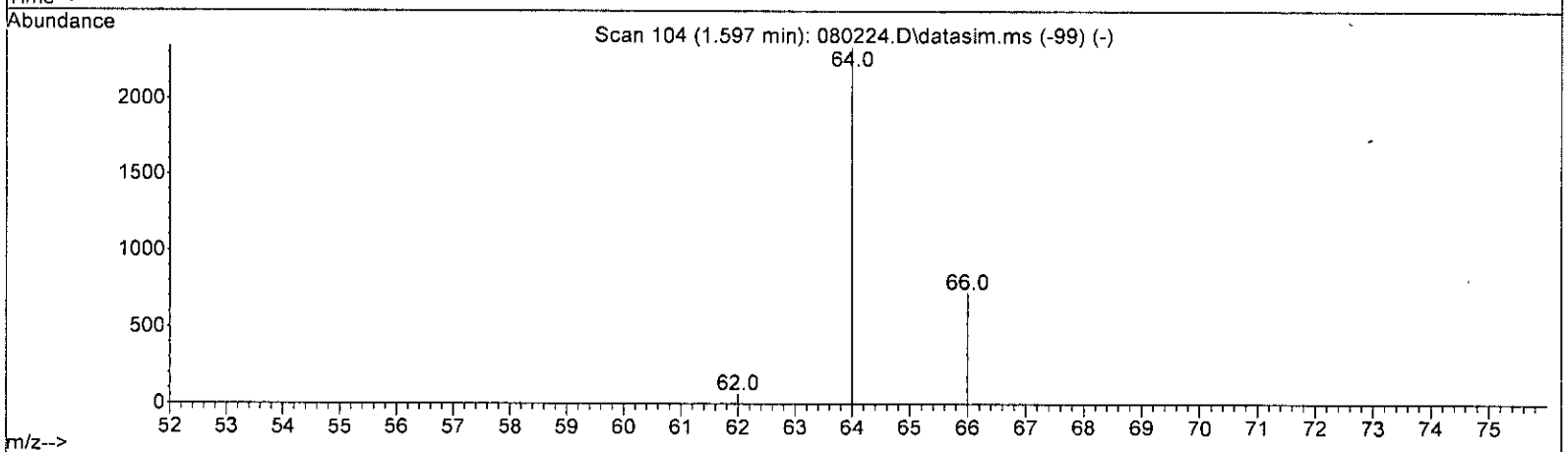
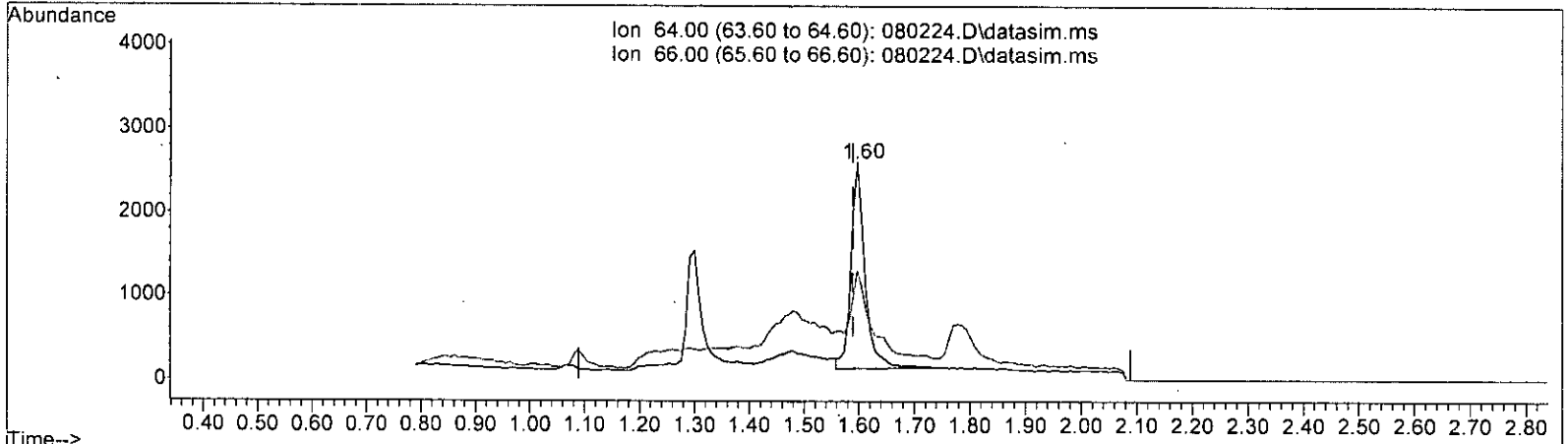
response 7110

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	31.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

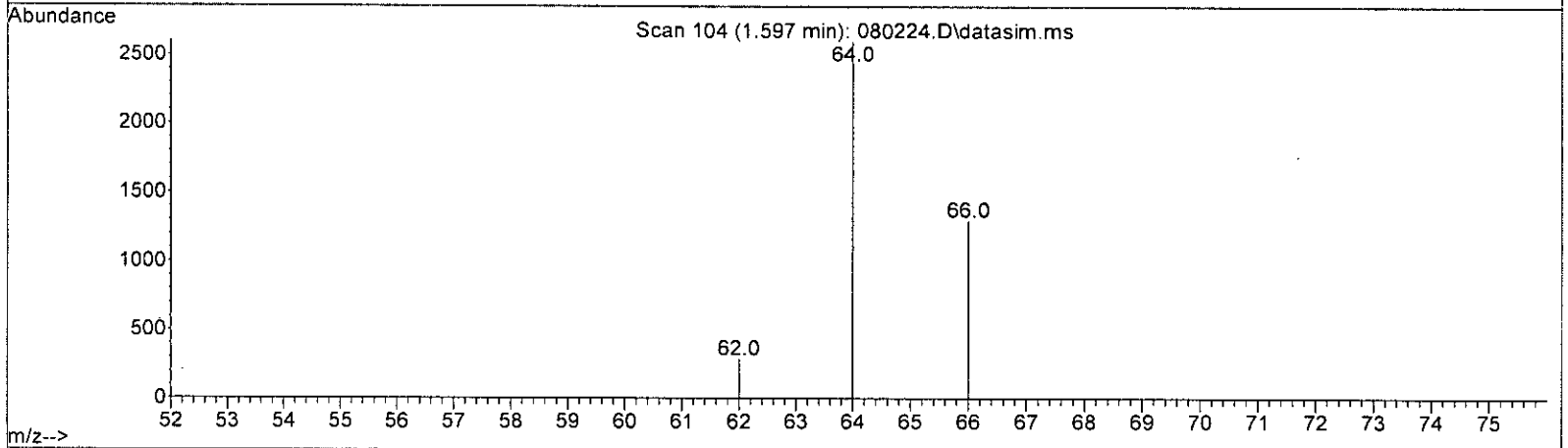
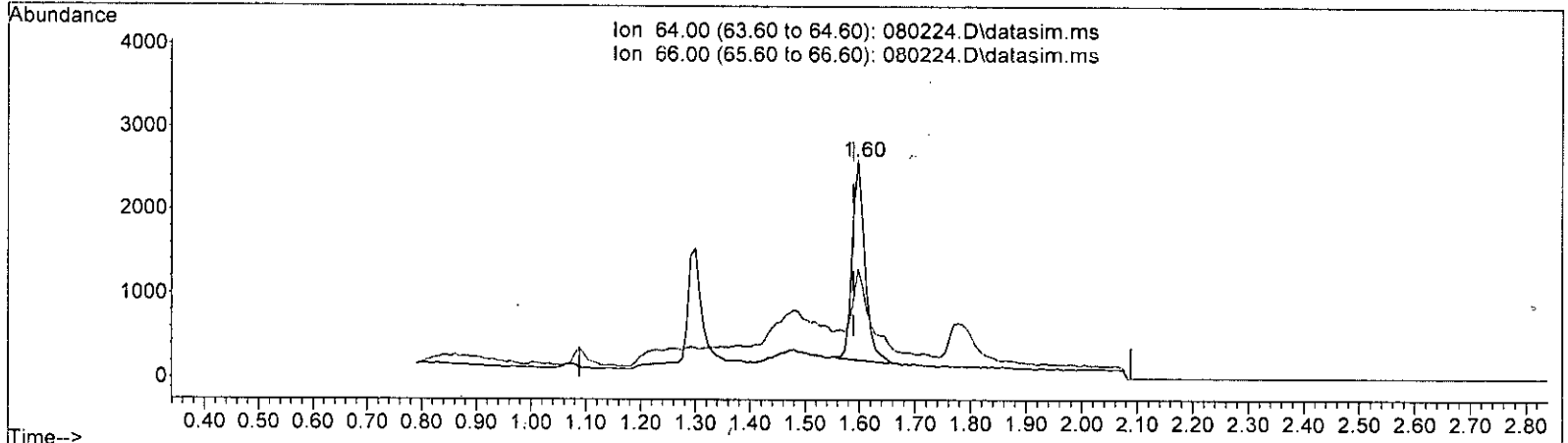
(8) Chloroethane (TMP)  
 1.597min (+ 0.008) 0.584 ppb  
 response 4325

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.20	42.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

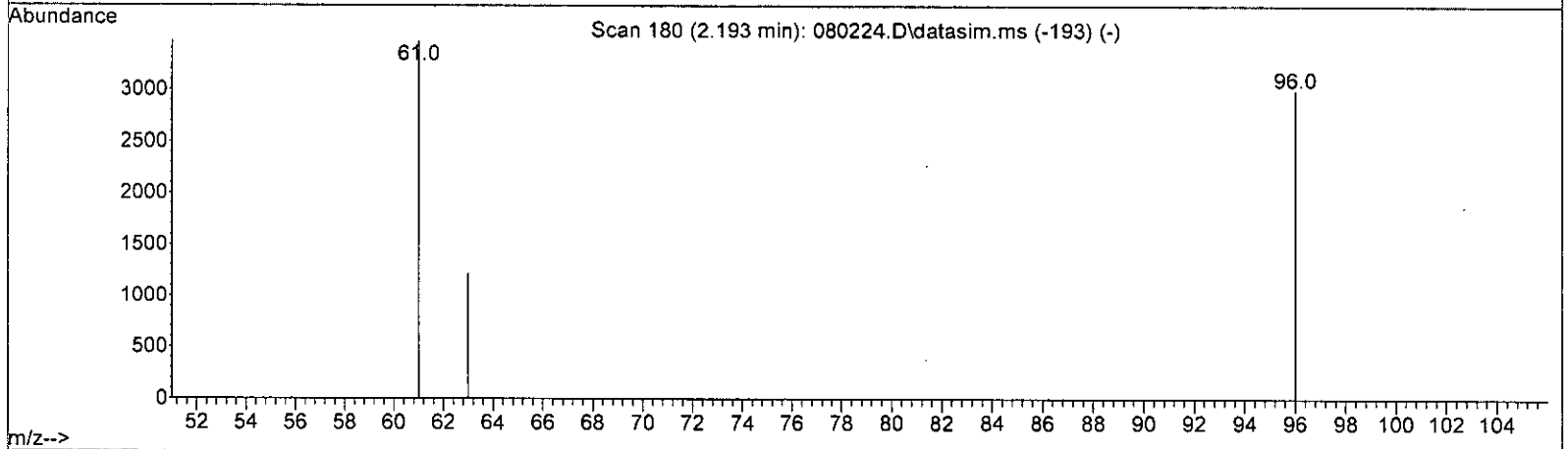
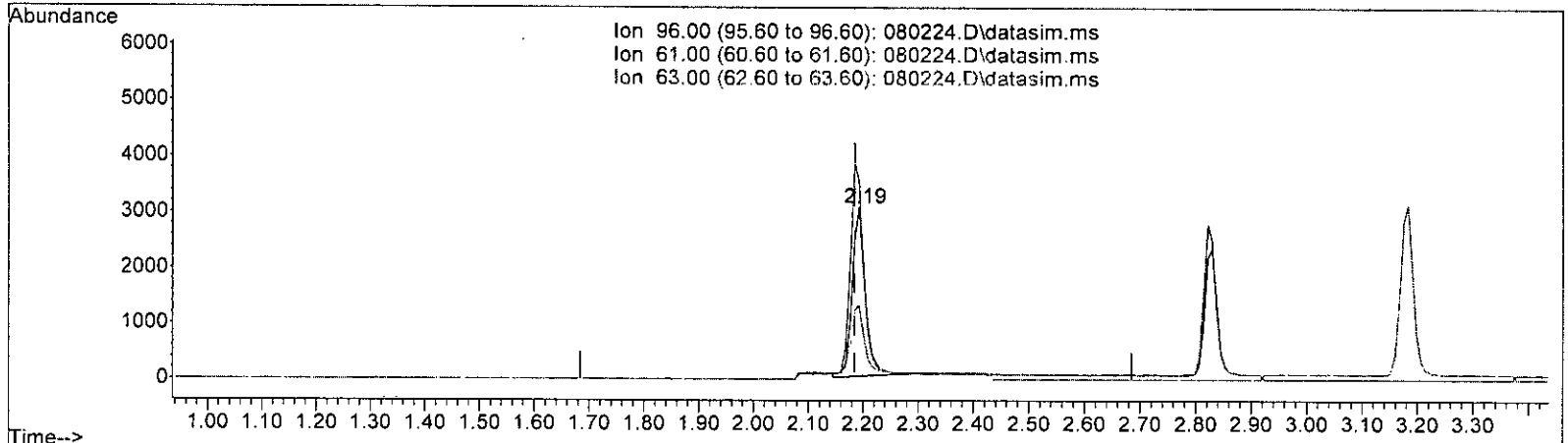
(8) Chloroethane (TMP)  
 1.597min (+ 0.008) 0.511 ppb m  
 response 3784

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.20	49.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



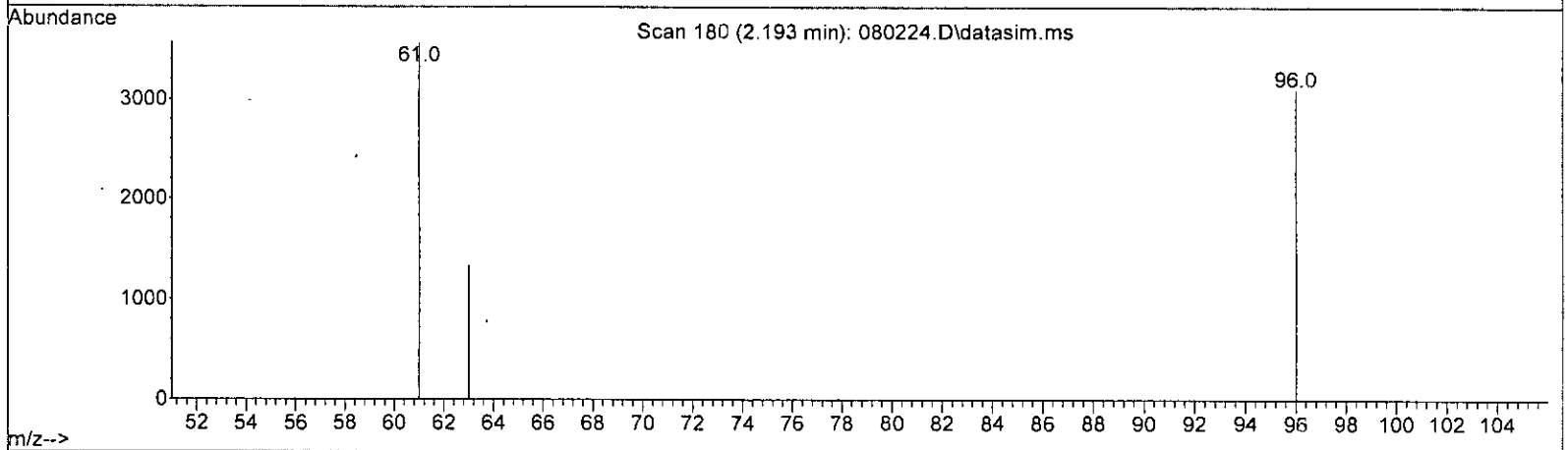
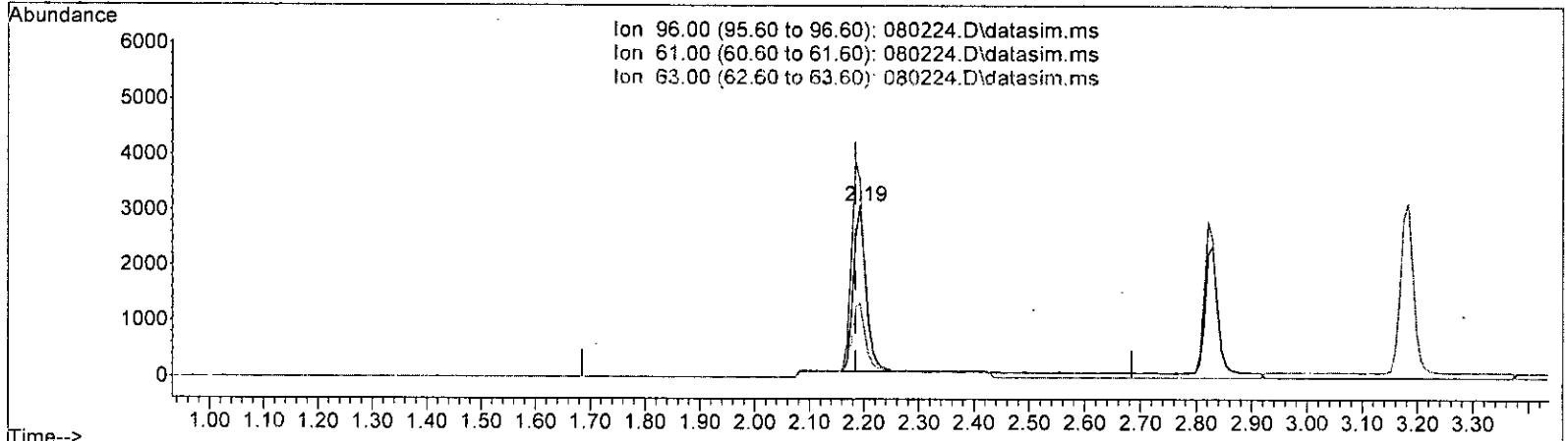
TIC: 080224.D\data.ms

(12) 1,1-Dichloroethene (TMP)		
2.193min (+ 0.008)	0.546 ppb	
response	5062	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	120.10	116.19
63.00	40.90	40.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 0.512 ppb m

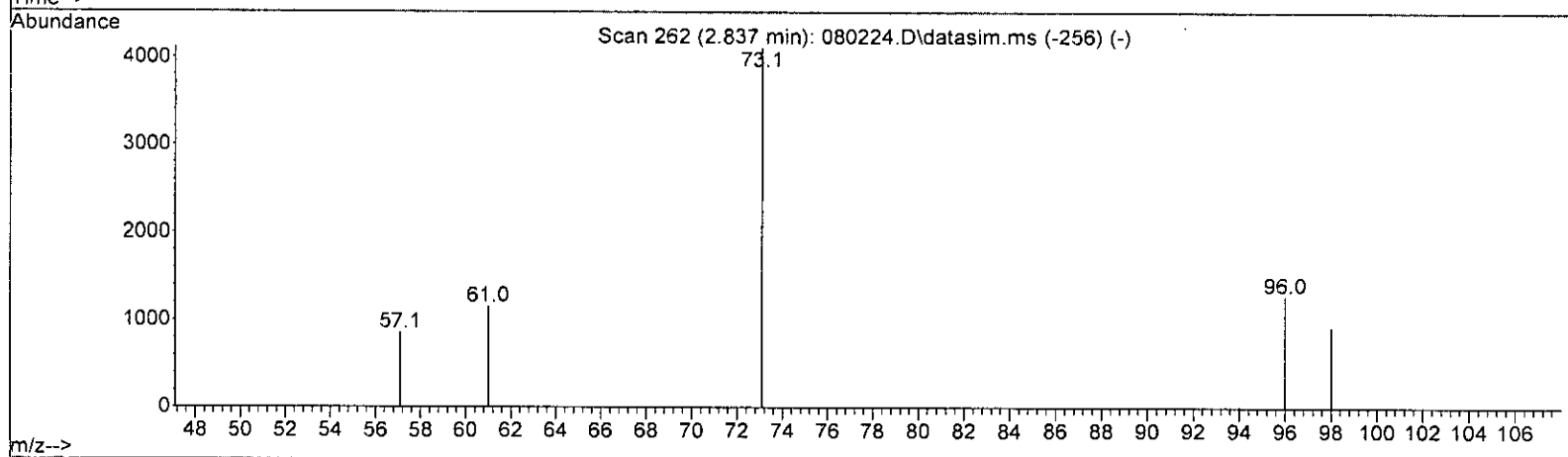
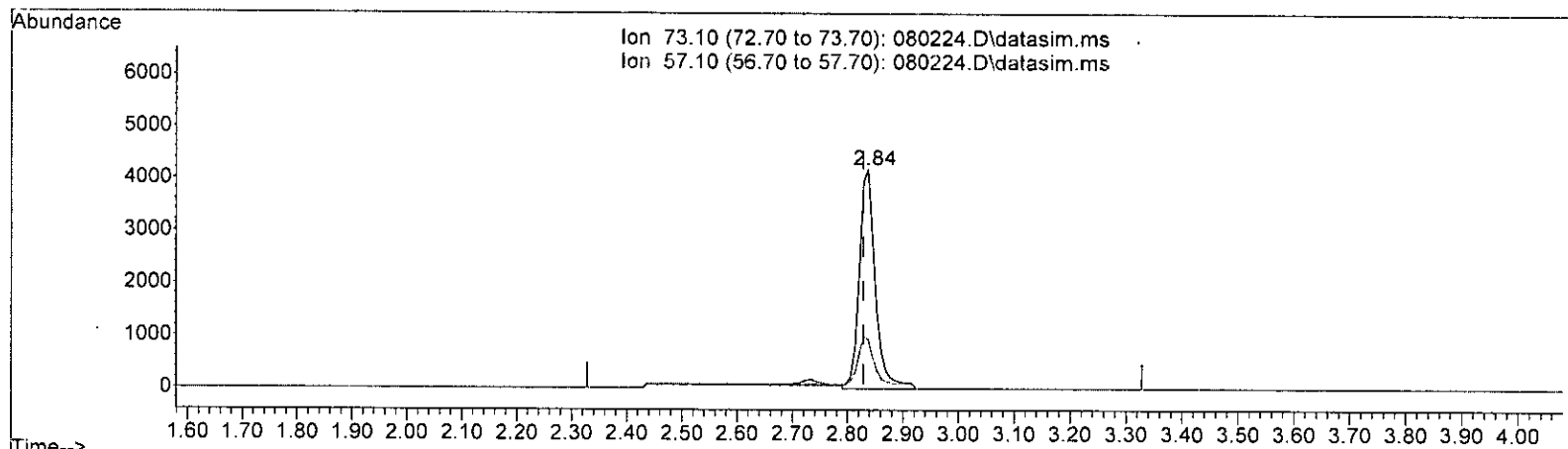
response 4752

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	120.10	115.22
63.00	40.90	43.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

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

2.837min (+ 0.008) 0.551 ppb

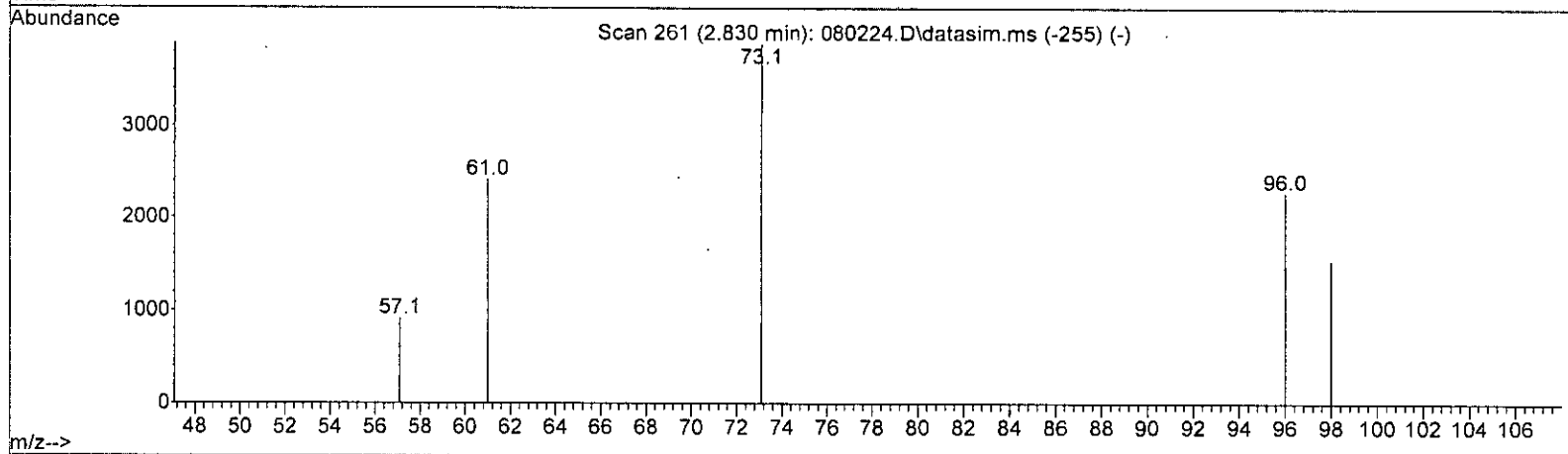
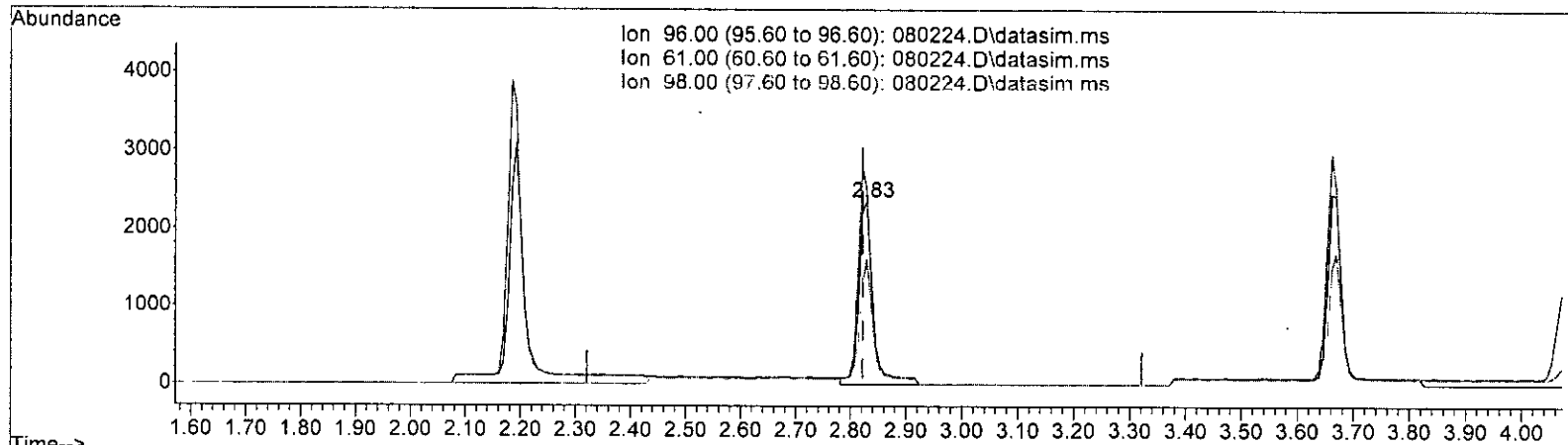
response 8388

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	22.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.830min (+ 0.008) 0.618 ppb  
 response 4141

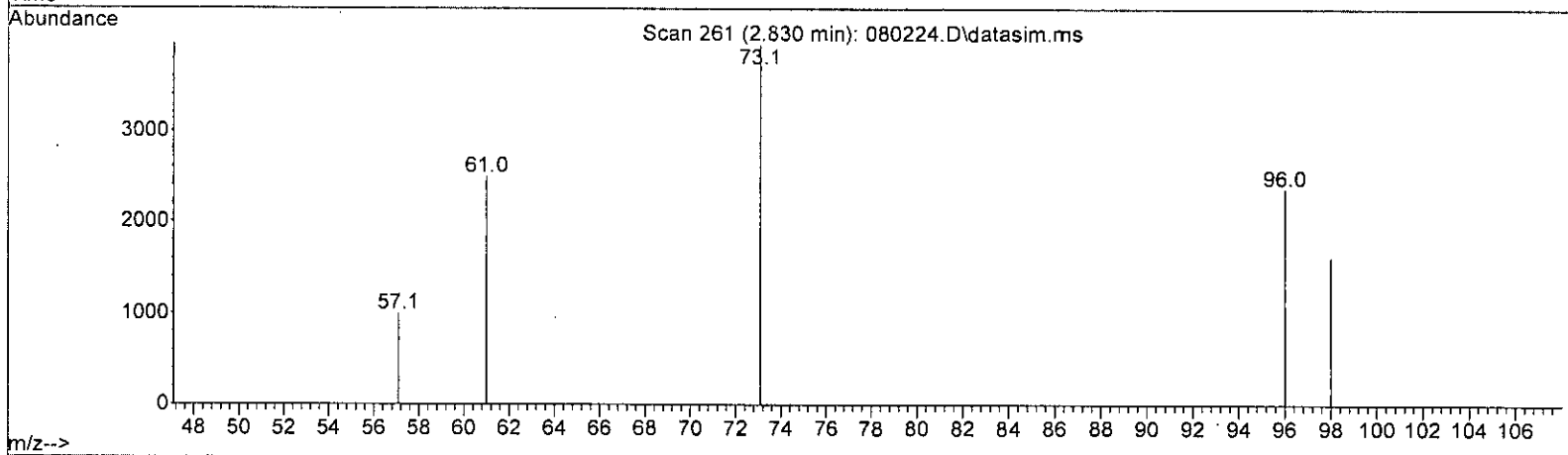
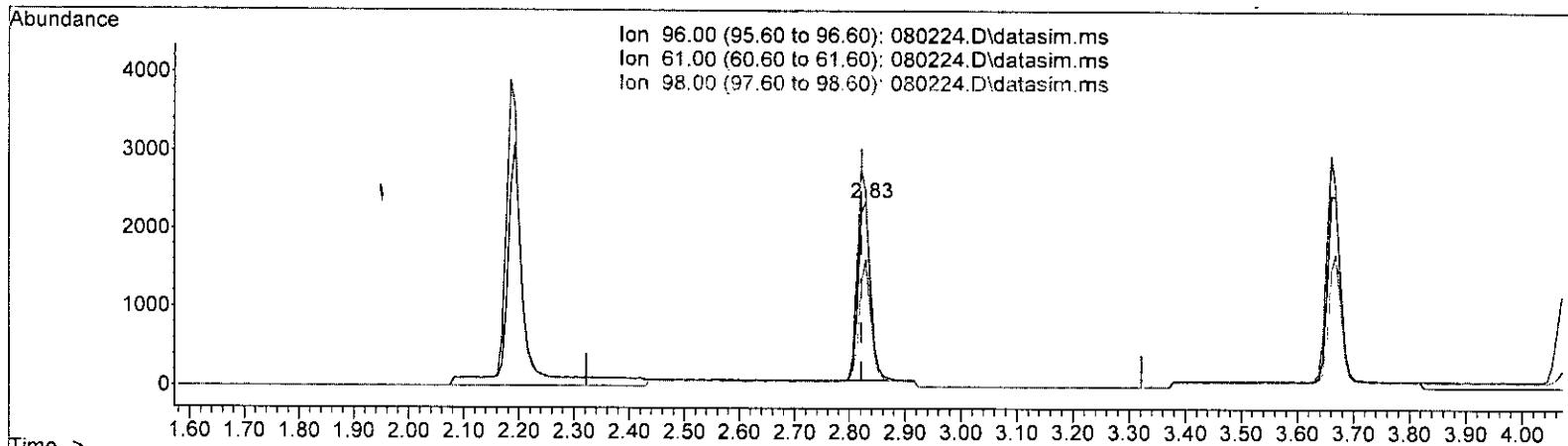
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	105.61
98.00	65.30	68.30
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

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

2.830min (+ 0.008) 0.515 ppb m

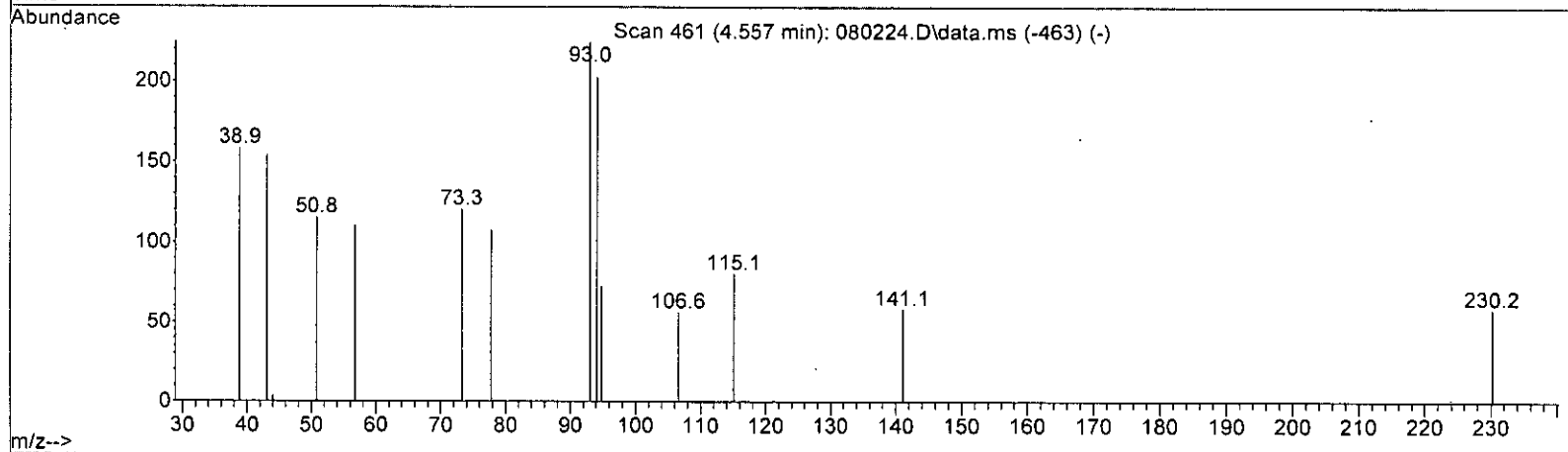
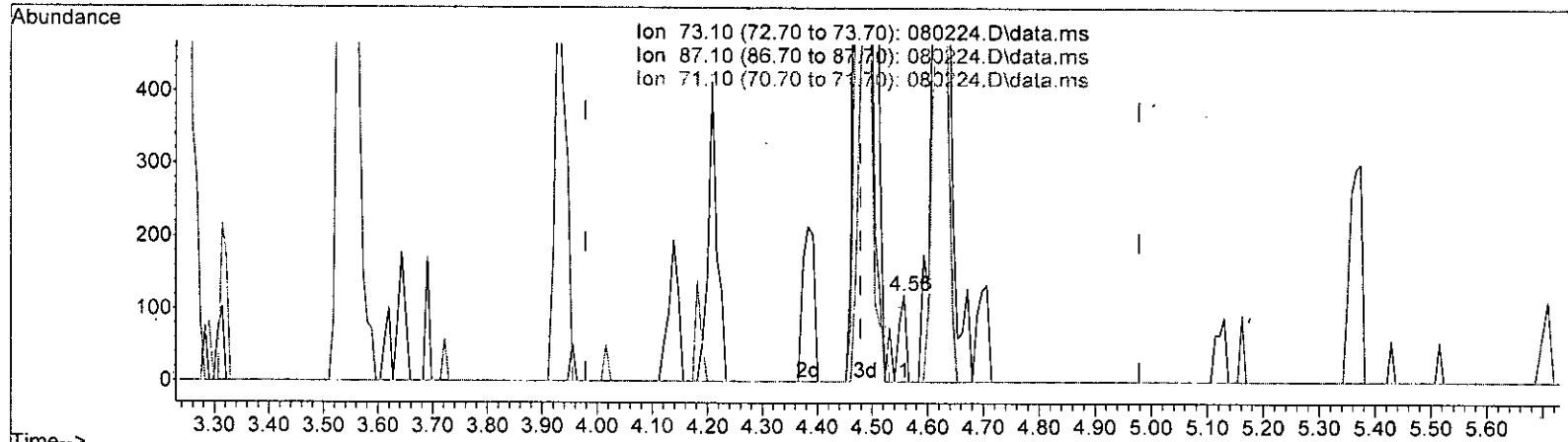
response 3466

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	105.61
98.00	65.30	68.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

(25) t-Amyl methyl ether (TAME) (TMP)

4.557min (+ 0.078) 0.007 ppb

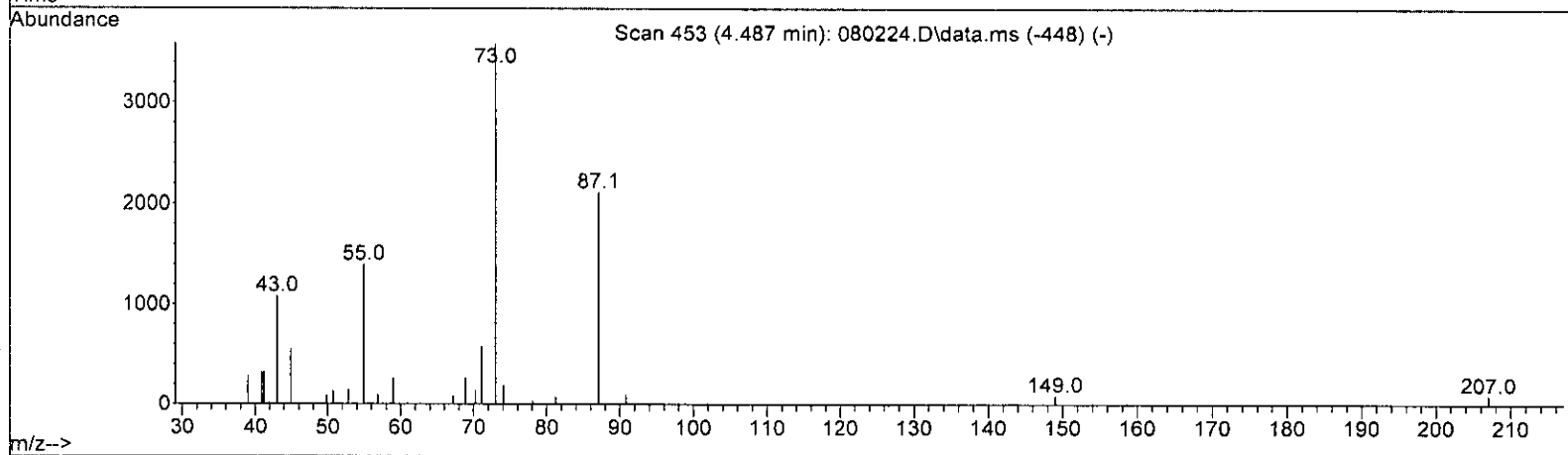
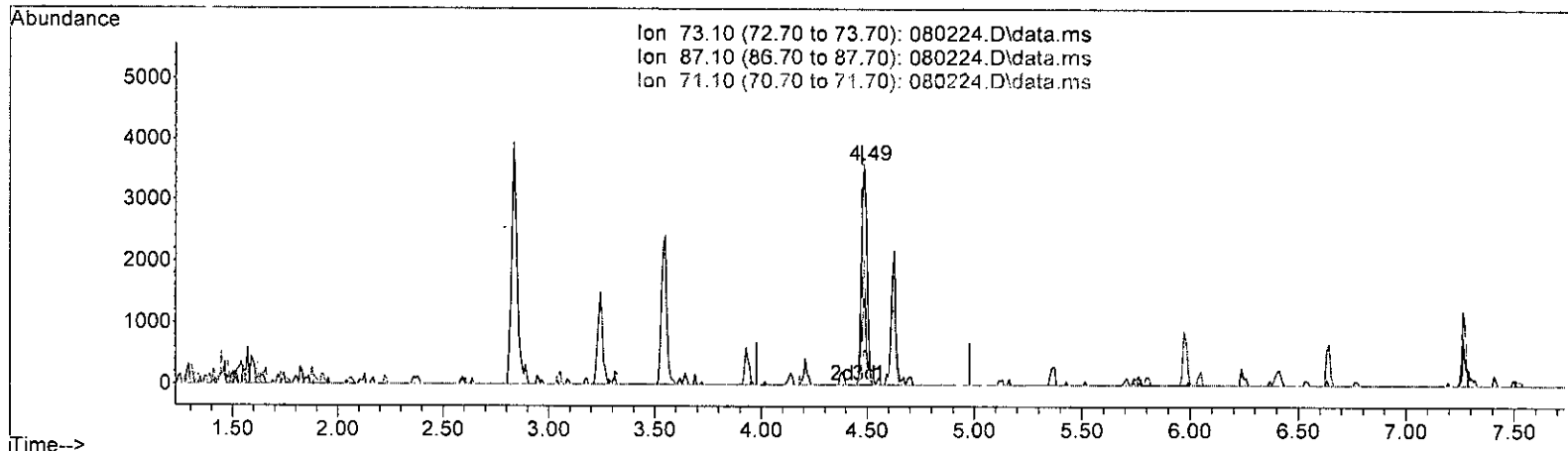
response 106

Ion	Exp%	Act%
73.10	100.00	100.00
87.10	28.40	0.00
71.10	11.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080224.D\data.ms

(25) t-Amyl methyl ether (TAME) (TMP)		
4.487min (+ 0.008)	0.455 ppb m	
response	6467	
Ion	Exp%	Act%
73.10	100.00	100.00
87.10	28.40	58.81#
71.10	11.00	16.12
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	95	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 S Dibromofluoromethane	10.000	10.118	-1.2	97	0.00
4 TMP Dichlorodifluoromethane	0.500	0.480	4.0	112	0.00
5 TMP Chloromethane	0.500	0.548	-9.6	131	0.00
6 TMP Vinyl chloride	0.500	0.485	3.0	112	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.52#
8 TMP Chloroethane	0.500	0.511	-2.2	97	0.00
9 TMP Trichlorofluoromethane	0.500	0.517	-3.4	120	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	2.500	0.000	100.0#	0	-2.25#
12 TMP 1,1-Dichloroethene	0.500	0.512	-2.4	115	0.00
13 TMP Hexane	0.500	0.551	-10.2	115	0.00
14 TMP Methylene chloride	-1.000	0.470	0.0	0	0.00
15 TMP t-Butyl alcohol (TBA)	2.500	2.971	-18.8	95	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.500	0.515	-3.0	111	0.00
17 TMP trans-1,2-Dichloroethene	0.500	0.515	-3.0	112	0.00
18 TMP Diisopropyl ether (DIPE)	0.500	0.559	-11.8	123	0.00
19 TMP 1,1-Dichloroethane	0.500	0.504	-0.8	113	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.500	0.582	-16.4	122	0.00
21 TMP 2,2-Dichloropropane	0.500	0.455	9.0	96	0.00
22 TMP cis-1,2-Dichloroethene	0.500	0.501	-0.2	115	0.00
23 TMP Chloroform	0.500	0.528	-5.6	106	0.00
24 TMP 2-Butanone (MEK)	2.500	2.771	-10.8	119	0.02
25 TMP t-Amyl methyl ether (TAME)	0.500	0.455	9.0	92	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.500	0.531	-6.2	112	0.00
27 TMP 1,1,1-Trichloroethane	0.500	0.506	-1.2	118	0.00
28 TMP 1,1-Dichloropropene	0.500	0.603	-20.6#	126	0.00
29 TMP Carbon tetrachloride	0.500	0.504	-0.8	136	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.652	-6.5	101	0.00
31 TMP Benzene	0.500	0.528	-5.6	114	0.00
32 TMP Trichloroethene	0.500	0.515	-3.0	114	0.00
33 TMP 1,2-Dichloropropane	0.500	0.498	0.4	101	0.00
34 TMP Bromodichloromethane	0.500	0.462	7.6	100	0.00
35 S Toluene-d8	10.000	10.070	-0.7	95	0.00
36 TMP Dibromomethane	0.500	0.527	-5.4	127	0.00
37 TMP 4-Methyl-2-pentanone	2.500	2.938	-17.5	130	0.00
38 TMP cis-1,3-Dichloropropene	0.500	0.398	20.4#	98	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
40 TMP Toluene	0.500	0.525	-5.0	118	0.00
41 TMP trans-1,3-Dichloropropene	0.500	0.515	-3.0	116	0.01
42 TMP 1,1,2-Trichloroethane	0.500	0.498	0.4	115	0.00
43 TMP 2-Hexanone	2.500	2.589	-3.6	106	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.567	-13.4	115	0.00
45 TMP Tetrachloroethene	0.500	0.514	-2.8	121	0.00
46 TMP Dibromochloromethane	0.500	0.486	2.8	119	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.514	-2.8	114	0.00
48 TMP Chlorobenzene	0.500	0.534	-6.8	123	0.00
49 TMP Ethylbenzene	0.500	0.522	-4.4	117	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.583	-16.6	140	0.00
51 TMP m,p-Xylene	1.000	1.022	-2.2	117	0.00
52 TMP o-Xylene	0.500	0.501	-0.2	116	0.00
53 TMP Styrene	0.500	0.497	0.6	110	0.00
54 TMP Isopropylbenzene	0.500	0.508	-1.6	122	0.00
55 TMP Bromoform	0.500	0.541	-8.2	104	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	10.000	10.163	-1.6	95	0.00
58 TMP n-Propylbenzene	0.500	0.533	-6.6	121	0.00
59 TMP Bromobenzene	0.500	0.531	-6.2	125	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.499	0.2	118	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.561	-12.2	114	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.518	-3.6	108	0.00
63 TMP 2-Chlorotoluene	0.500	0.479	4.2	108	0.00
64 TMP 4-Chlorotoluene	0.500	0.480	4.0	105	0.00
65 TMP tert-Butylbenzene	0.500	0.482	3.6	118	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.488	2.4	117	0.00
67 TMP sec-Butylbenzene	0.500	0.484	3.2	120	0.00
68 TMP p-Isopropyltoluene	0.500	0.489	2.2	128	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.500	0.0	109	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.514	-2.8	114	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.503	-0.6	113	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.450	10.0	107	0.00
74 TMP Hexachlorobutadiene	0.500	0.498	0.4	136	0.00
75 TMP Naphthalene	0.500	0.470	6.0	110	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.468	6.4	112	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	95	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.279	-3.7	97	0.00
4 TMP Dichlorodifluoromethane	0.697	0.777	-11.5	112	0.00
5 TMP Chloromethane	0.636	0.824	-29.6#	131	0.00
6 TMP Vinyl chloride	0.524	0.571	-9.0	112	0.00
7 TMP Bromomethane	0.407	0.000#	100.0#	0#	-1.52#
8 TMP Chloroethane	0.266	0.304	-14.3	97	0.00
9 TMP Trichlorofluoromethane	0.776	0.949	-22.3#	120	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.047	0.000#	100.0#	0#	-2.25#
12 TMP 1,1-Dichloroethene	0.351	0.382	-8.8	115	0.00
13 TMP Hexane	0.281	0.362	-28.8#	115	0.00
14 TMP Methylene chloride	0.232	0.000#	100.0#	0#	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.029#	-11.5	95	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.630	-12.7	111	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.279	-9.4	112	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.746	-26.2#	123	0.00
19 TMP 1,1-Dichloroethane	0.348	0.400	-14.9	113	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.337	-31.1#	122	0.00
21 TMP 2,2-Dichloropropane	0.247	0.305	-23.5#	96	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.305	-13.4	115	0.00
23 TMP Chloroform	0.384	0.458	-19.3	106	0.00
24 TMP 2-Butanone (MEK)	0.131	0.164	-25.2#	119	0.02
25 TMP t-Amyl methyl ether (TAME)	0.541	0.520	3.9	92	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.320	-1.3	112	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.424	-18.1	118	0.00
28 TMP 1,1-Dichloropropene	0.286	0.401	-40.2#	126	0.00
29 TMP Carbon tetrachloride	0.317	0.389	-22.7#	136	0.00
30 S 1,2-Dichloroethane-d4	0.063	0.066	-4.8	101	0.00
31 TMP Benzene	0.840	0.956	-13.8	114	0.00
32 TMP Trichloroethene	0.274	0.309	-12.8	114	0.00
33 TMP 1,2-Dichloropropane	0.192	0.221	-15.1	101	0.00
34 TMP Bromodichloromethane	0.265	0.277	-4.5	100	0.00
35 S Toluene-d8	0.932	0.946	-1.5	95	0.00
36 TMP Dibromomethane	0.149	0.174	-16.8	127	0.00
37 TMP 4-Methyl-2-pentanone	0.042	0.053	-26.2#	130	0.00
38 TMP cis-1,3-Dichloropropene	0.310	0.281	9.4	98	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
40 TMP Toluene	0.774	0.852	-10.1	118	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.401	-13.3	116	0.01
42 TMP 1,1,2-Trichloroethane	0.216	0.239	-10.6	115	0.00
43 TMP 2-Hexanone	0.210	0.241	-14.8	106	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.454	-25.8#	115	0.00
45 TMP Tetrachloroethene	0.329	0.366	-11.2	121	0.00
46 TMP Dibromochloromethane	0.305	0.334	-9.5	119	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.324	-3.2	114	0.00
48 TMP Chlorobenzene	0.846	1.044	-23.4#	123	0.00
49 TMP Ethylbenzene	1.339	1.502	-12.2	117	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.399	-34.8#	140	0.00
51 TMP m,p-Xylene	0.560	0.621	-10.9	117	0.00
52 TMP o-Xylene	0.553	0.607	-9.8	116	0.00
53 TMP Styrene	0.814	0.958	-17.7	110	0.00
54 TMP Isopropylbenzene	1.267	1.473	-16.3	122	0.00
55 TMP Bromoform	0.232	0.271	-16.8	104	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	0.749	0.736	1.7	95	0.00
58 TMP n-Propylbenzene	2.492	3.046	-22.2#	121	0.00
59 TMP Bromobenzene	0.689	0.832	-20.8#	125	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.177	-11.0	118	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.700	-21.5#	114	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.468#	-9.6	108	0.00
63 TMP 2-Chlorotoluene	1.486	1.574	-5.9	108	0.00
64 TMP 4-Chlorotoluene	1.755	1.894	-7.9	105	0.00
65 TMP tert-Butylbenzene	1.793	1.959	-9.3	118	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.231	-9.9	117	0.00
67 TMP sec-Butylbenzene	2.486	2.837	-14.1	120	0.00
68 TMP p-Isopropyltoluene	2.169	2.512	-15.8	128	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.481	-15.1	109	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.511	-16.0	114	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.423	-15.4	113	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.922	0.955	-3.6	107	0.00
74 TMP Hexachlorobutadiene	0.469	0.572	-22.0#	136	0.00
75 TMP Naphthalene	2.177	2.221	-2.0	110	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	0.921	-7.2	112	0.00

(#) = Out of Range

SPCC's out = 7 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	248855	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	200766	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	116291	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	69360	10.118	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	101.20%		
30) 1,2-Dichloroethane-d4	4.35	102	16528	10.652	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery =	106.50%		
35) Toluene-d8	5.97	98	235440	10.070	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery =	100.70%		
57) 4-Bromofluorobenzene	8.37	95	85541	10.163	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery =	101.60%		
Target Compounds						
						Qvalue
2) Ethanol	1.96	45	976	No Calib		
4) Dichlorodifluoromethane	1.09	85	9662	0.480	ppb	93
5) Chloromethane	1.22	50	10248	0.548	ppb	94
6] Vinyl chloride	1.29	62	7110m	0.485	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8] Chloroethane	1.60	64	3784m	0.511	ppb	
9) Trichlorofluoromethane	1.78	101	11803	0.517	ppb	80
10) 2-Propanol	2.39	45	2556	No Calib		
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.19	96	4752m	0.512	ppb	
13) Hexane	3.05	57	4499	0.551	ppb	91
14) Methylene chloride	2.61	84	6113	0.470	ppb	88
15) t-Butyl alcohol (TBA)	2.75	59	1827	2.971	ppb	80
16] Methyl t-butyl ether (...)	2.84	73	7840m	0.515	ppb	
17] trans-1,2-Dichloroethene	2.83	96	3466m	0.515	ppb	
18) Diisopropyl ether (DIPE)	3.24	45	9278	0.559	ppb	98
19] 1,1-Dichloroethane	3.18	63	4983	0.504	ppb	96
20) Ethyl t-butyl ether (E...)	3.55	87	4197	0.582	ppb	# 77
21) 2,2-Dichloropropane	3.67	77	3791	0.455	ppb	98
22] cis-1,2-Dichloroethene	3.66	96	3801	0.501	ppb	91
23) Chloroform	3.94	83	5701	0.528	ppb	95
24) 2-Butanone (MEK)	3.71	43	10198	2.771	ppb	93
25) t-Amyl methyl ether (T...)	4.49	73	6467m	0.455	ppb	
26] 1,2-Dichloroethane (EDC)	4.41	62	3978	0.531	ppb	97
27] 1,1,1-Trichloroethane	4.08	97	5274	0.506	ppb	94
28) 1,1-Dichloropropene	4.22	75	4994	0.603	ppb	98
29) Carbon tetrachloride	4.21	117	4841	0.504	ppb	75
31] Benzene	4.39	78	11895	0.528	ppb	97
32] Trichloroethene	4.93	95	3845	0.515	ppb	84
33) 1,2-Dichloropropane	5.13	63	2749	0.498	ppb	99
34) Bromodichloromethane	5.37	83	3447	0.462	ppb	83
36) Dibromomethane	5.22	93	2164	0.527	ppb	93



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

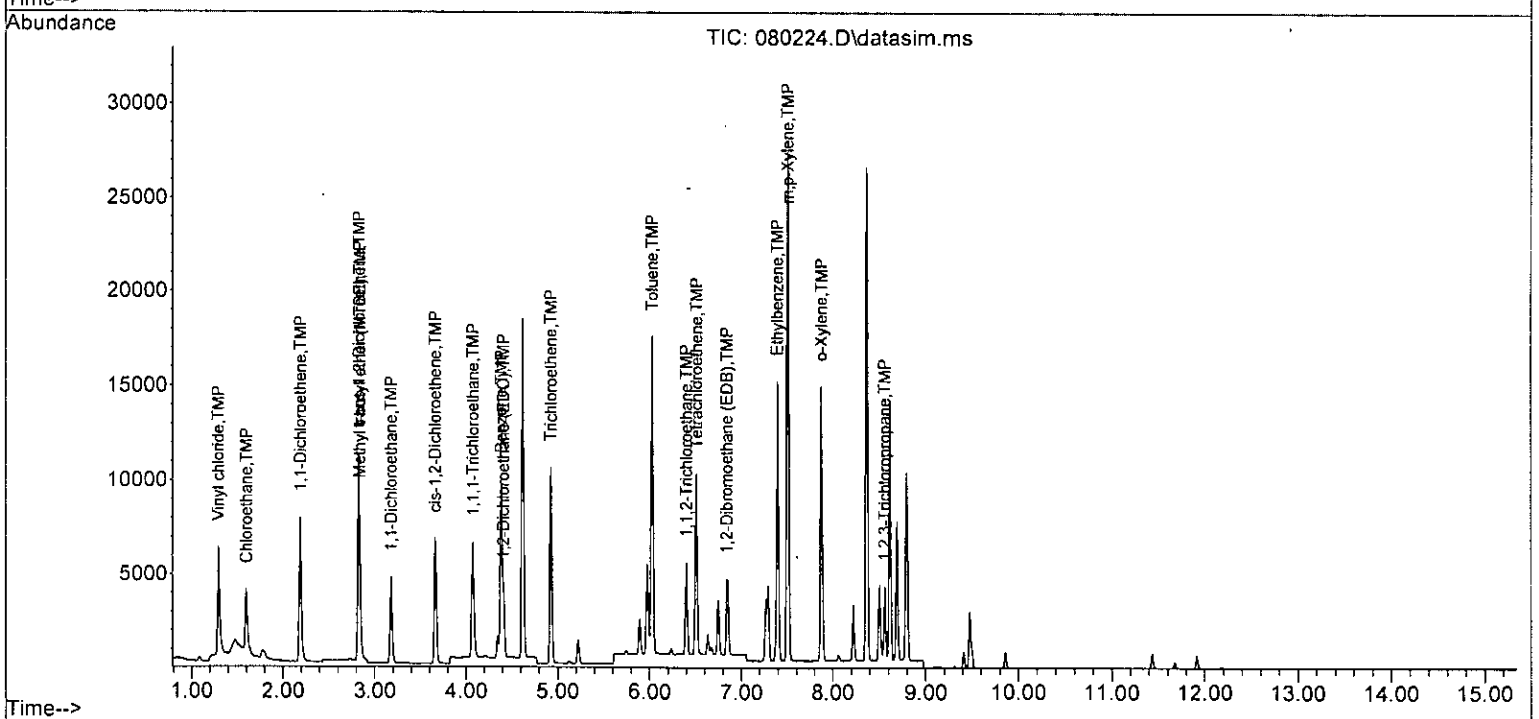
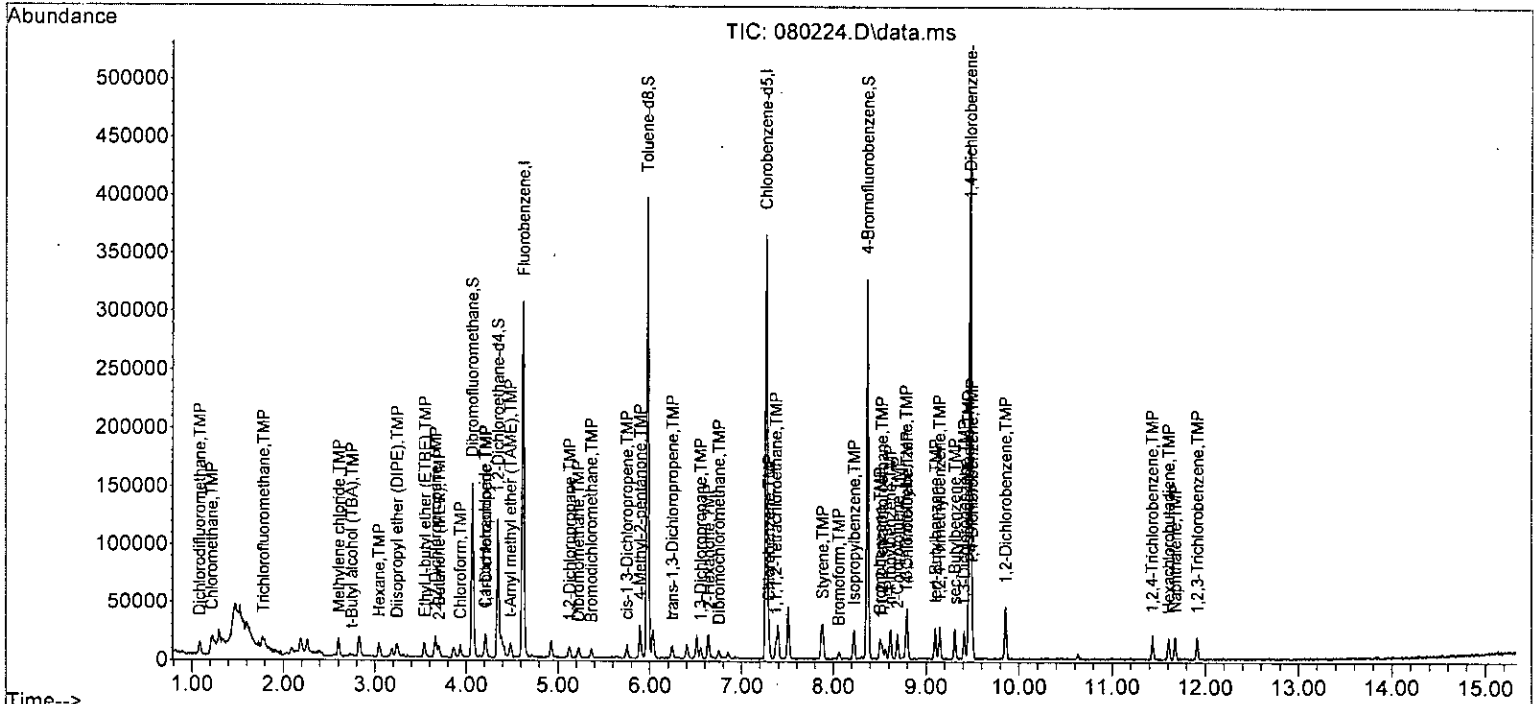
Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	3285	2.938	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	3492	0.398	ppb #	59
40] Toluene	6.03	92	8552	0.525	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	4027	0.515	ppb	73
42] 1,1,2-Trichloroethane	6.40	83	2400	0.498	ppb	100
43) 2-Hexanone	6.64	43	12081	2.589	ppb	93
44) 1,3-Dichloropropane	6.55	76	4557	0.567	ppb	78
45] Tetrachloroethene	6.51	164	3671	0.514	ppb	98
46) Dibromochloromethane	6.75	129	3352	0.486	ppb	93
47] 1,2-Dibromoethane (EDB)	6.84	107	3256	0.514	ppb	99
48) Chlorobenzene	7.30	112	10479	0.534	ppb	90
49] Ethylbenzene	7.39	91	15079	0.522	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	4006	0.583	ppb	90
51] m,p-Xylene	7.50	106	12469	1.022	ppb	98
52] o-Xylene	7.88	106	6091	0.501	ppb	99
53) Styrene	7.89	104	9621	0.497	ppb	86
54) Isopropylbenzene	8.23	105	14789	0.508	ppb	96
55) Bromoform	8.06	173	2716	0.541	ppb	88
58) n-Propylbenzene	8.61	91	17712	0.533	ppb	96
59) Bromobenzene	8.50	156	4839	0.531	ppb	90
60) 1,3,5-Trimethylbenzene	8.79	105	12658	0.499	ppb	94
61) 1,1,2,2-Tetrachloroethane	8.53	83	4073	0.561	ppb	82
62] 1,2,3-Trichloropropane	8.56	75	2724	0.518	ppb	98
63) 2-Chlorotoluene	8.69	91	9150	0.479	ppb	97
64) 4-Chlorotoluene	8.80	91	11011	0.480	ppb	92
65) tert-Butylbenzene	9.10	119	11388	0.482	ppb	75
66) 1,2,4-Trimethylbenzene	9.15	105	12971	0.488	ppb	93
67) sec-Butylbenzene	9.31	105	16494	0.484	ppb	94
68) p-Isopropyltoluene	9.46	119	14604	0.489	ppb	89
69) 1,3-Dichlorobenzene	9.41	146	8613	0.500	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	8785	0.514	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	8272	0.503	ppb	89
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.43	180	5554	0.450	ppb	94
74) Hexachlorobutadiene	11.61	225	3327	0.498	ppb	82
75) Naphthalene	11.68	128	12917	0.470	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	5354	0.468	ppb	97

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080224.D  
 Acq On : 02 Aug 2023 06:27 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

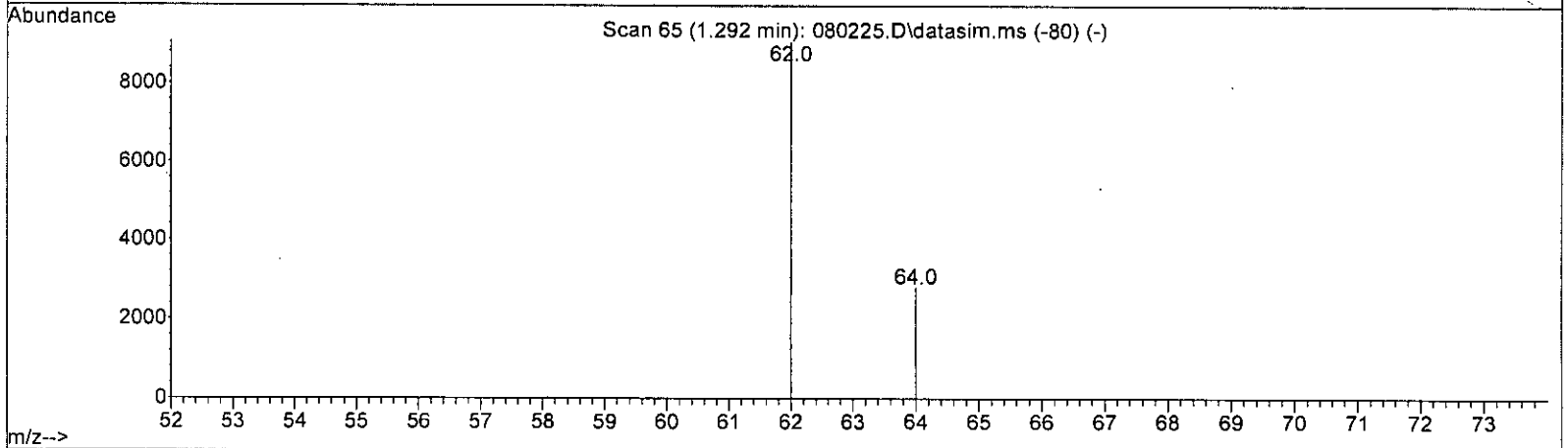
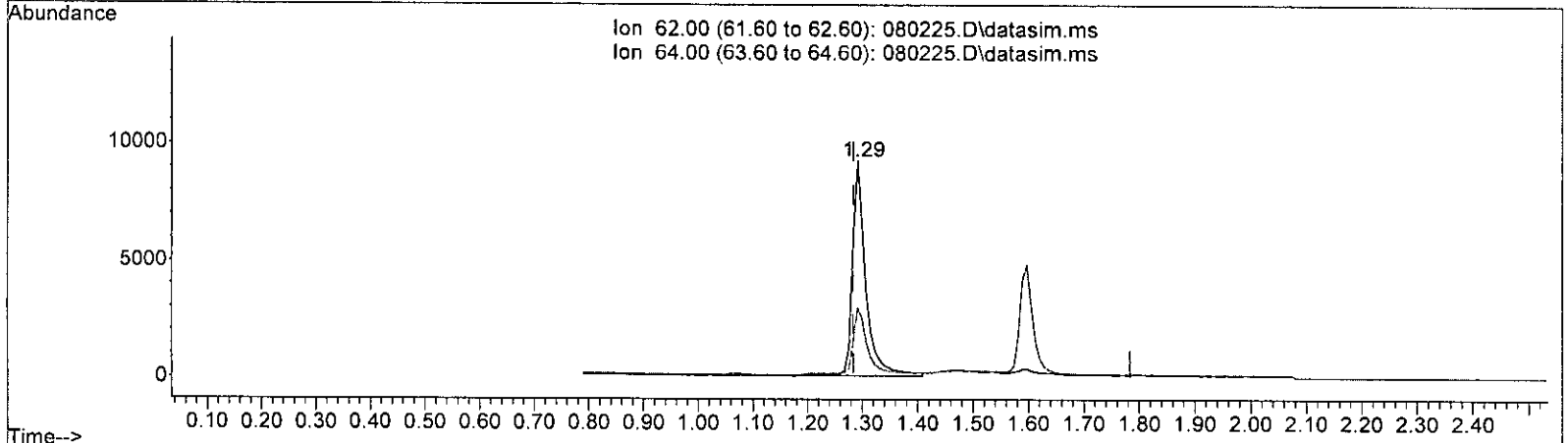
Quant Time: Aug 03 09:53:45 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080225.D\data.ms

(6) Vinyl chloride (TMP)

1.292min (+ 0.008) 1.041 ppb

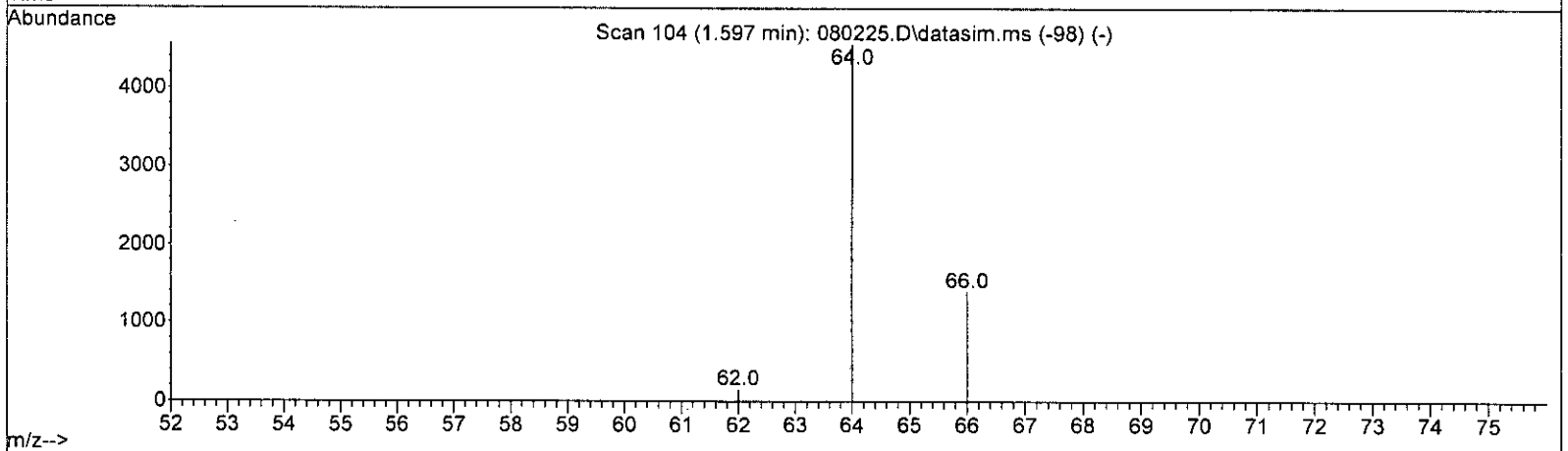
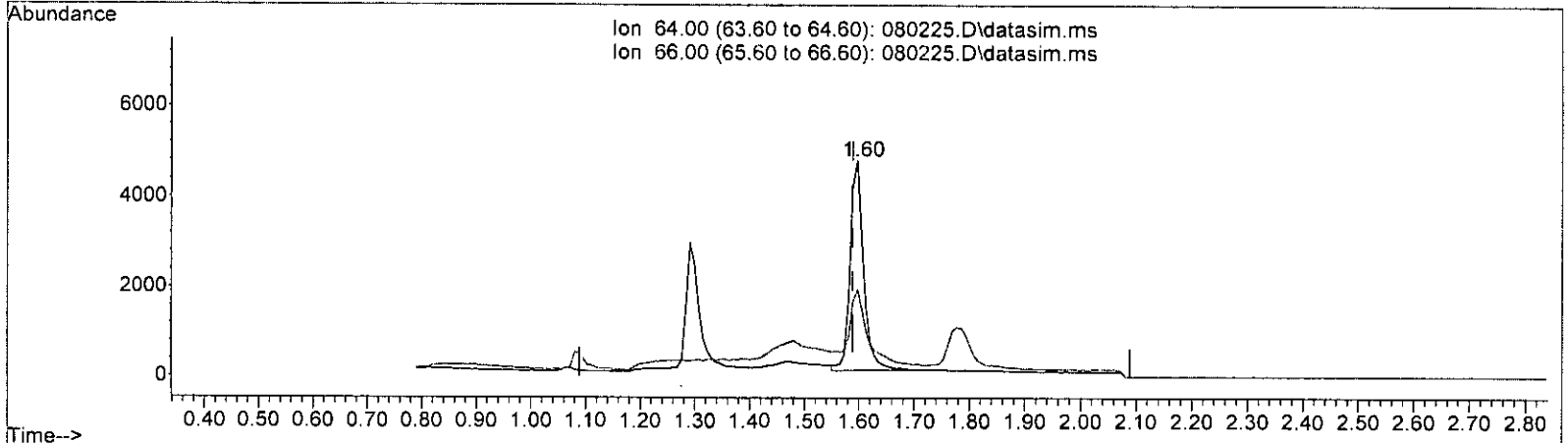
response : 15311

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	31.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080225.D\data.ms

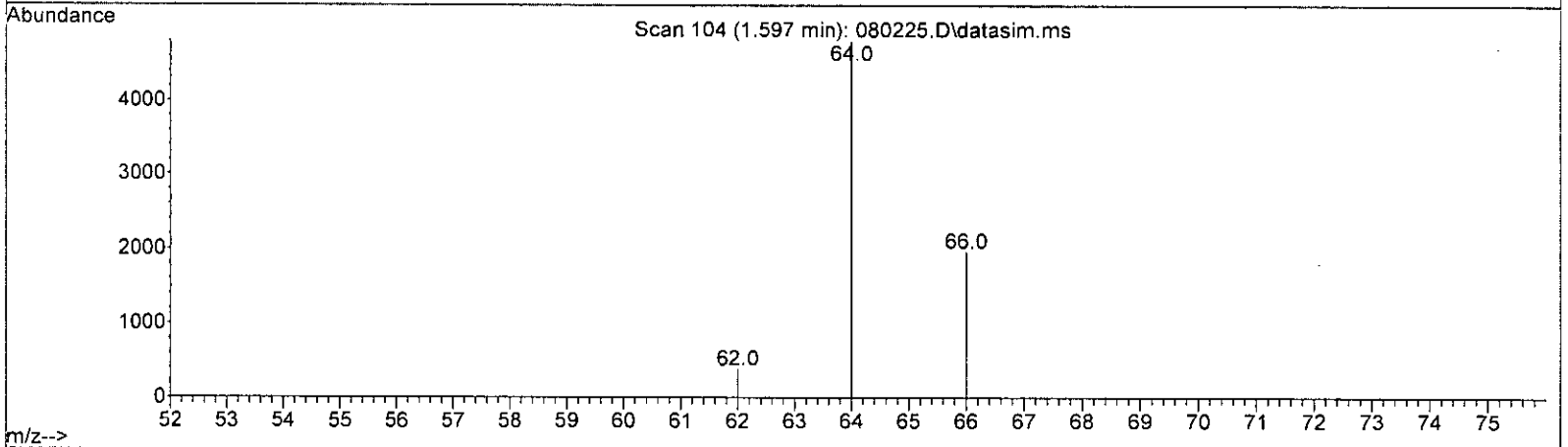
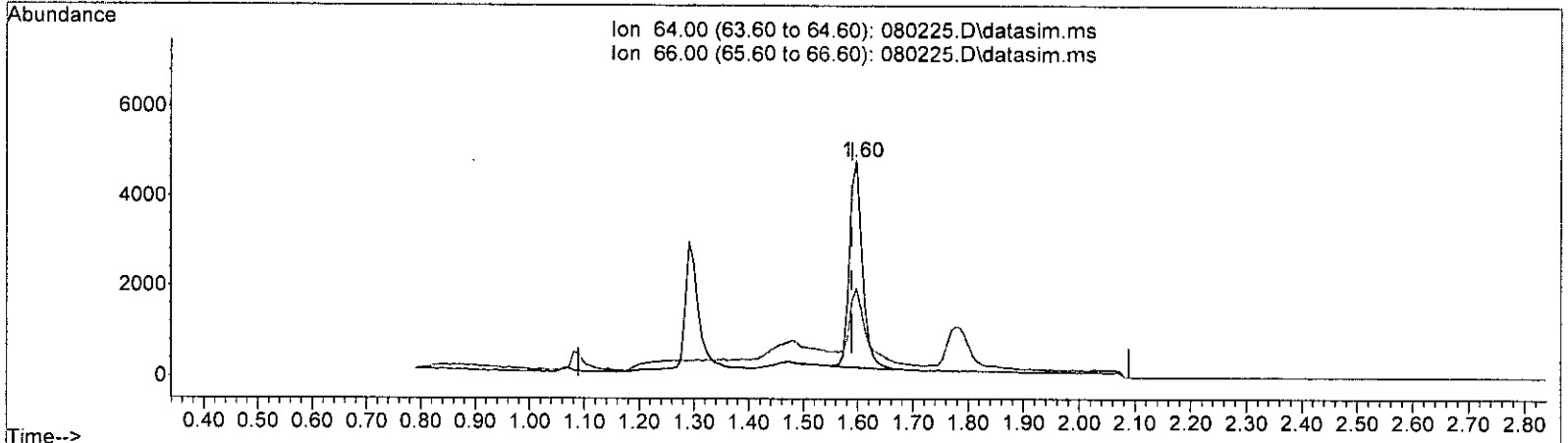
(8) Chloroethane (TMP)  
 1.597min (+ 0.008) 1.063 ppb  
 response 7891

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.20	36.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



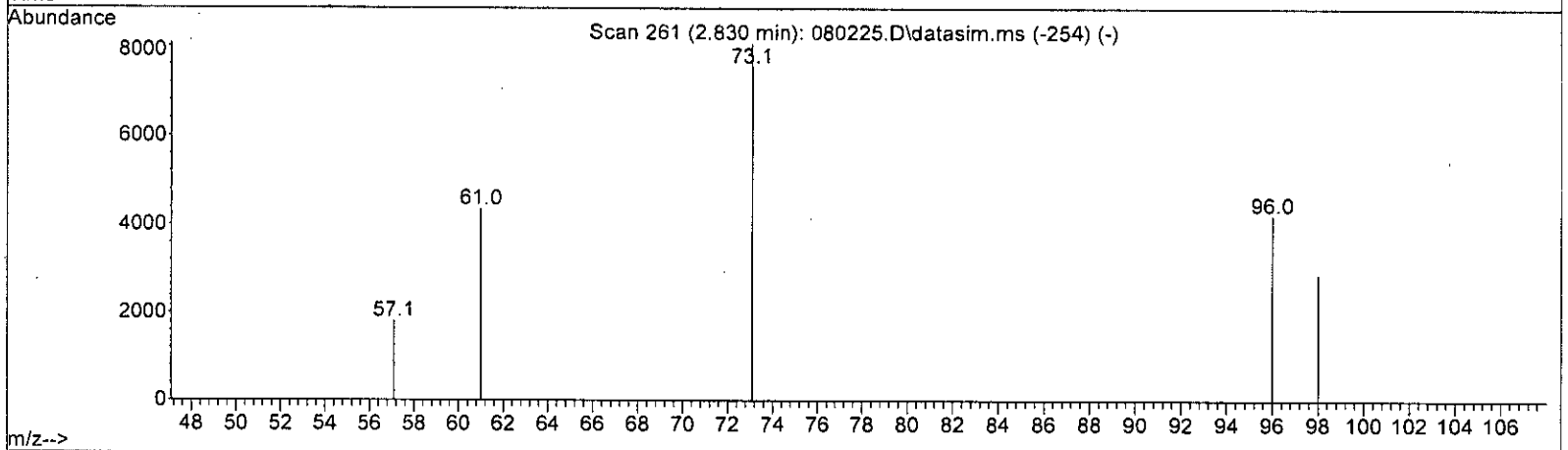
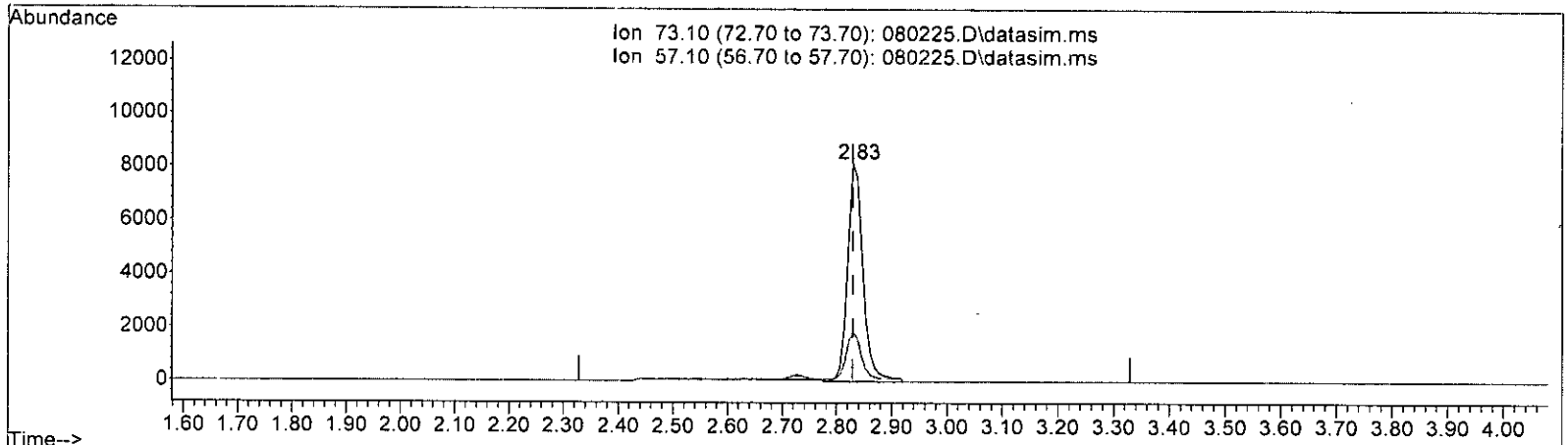
TIC: 080225.D\data.ms

(8) Chloroethane (TMP)		
Retention Time	Concentration	Response
1.597min (+ 0.008)	0.993 ppb m	7371
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.20	40.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080225.D\data.ms

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

2.830min (+ 0.001) 1.043 ppb

response 15929

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	20.70	23.04
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	94	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.134	-1.3	95	0.00
4 TMP Dichlorodifluoromethane	1.000	0.942	5.8	112	0.00
5 TMP Chloromethane	1.000	1.045	-4.5	116	0.00
6 TMP Vinyl chloride	1.000	0.975	2.5	109	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.52#
8 TMP Chloroethane	1.000	0.993	0.7	105	0.00
9 TMP Trichlorofluoromethane	1.000	0.938	6.2	113	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	5.000	5.270	-5.4	113	0.00
12 TMP 1,1-Dichloroethene	1.000	1.037	-3.7	113	0.00
13 TMP Hexane	1.000	0.992	0.8	112	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	5.000	5.109	-2.2	82	0.00
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.002	-0.2	104	0.00
17 TMP trans-1,2-Dichloroethene	1.000	1.120	-12.0	113	0.00
18 TMP Diisopropyl ether (DIPE)	1.000	1.000	0.0	115	0.00
19 TMP 1,1-Dichloroethane	1.000	1.000	0.0	114	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	1.059	-5.9	118	0.00
21 TMP 2,2-Dichloropropane	1.000	1.089	-8.9	120	0.00
22 TMP cis-1,2-Dichloroethene	1.000	0.979	2.1	114	0.00
23 TMP Chloroform	1.000	0.953	4.7	101	0.00
24 TMP 2-Butanone (MEK)	5.000	4.683	6.3	104	0.00
25 TMP t-Amyl methyl ether (TAME)	1.000	1.006	-0.6	107	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.067	-6.7	113	0.00
27 TMP 1,1,1-Trichloroethane	1.000	0.986	1.4	114	0.00
28 TMP 1,1-Dichloropropene	1.000	0.925	7.5	106	0.00
29 TMP Carbon tetrachloride	1.000	0.972	2.8	120	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.175	-1.8	94	0.00
31 TMP Benzene	1.000	1.042	-4.2	114	0.00
32 TMP Trichloroethene	1.000	1.040	-4.0	115	0.00
33 TMP 1,2-Dichloropropane	1.000	0.993	0.7	119	0.00
34 TMP Bromodichloromethane	1.000	0.992	0.8	115	0.00
35 S Toluene-d8	10.000	10.029	-0.3	93	0.00
36 TMP Dibromomethane	1.000	1.070	-7.0	120	0.00
37 TMP 4-Methyl-2-pentanone	5.000	4.017	19.7	84	0.00
38 TMP cis-1,3-Dichloropropene	1.000	0.964	3.6	115	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
40 TMP Toluene	1.000	1.034	-3.4	115	0.00
41 TMP trans-1,3-Dichloropropene	1.000	1.005	-0.5	119	0.01
42 TMP 1,1,2-Trichloroethane	1.000	0.973	2.7	109	0.00
43 TMP 2-Hexanone	5.000	5.002	-0.0	98	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.031	-3.1	119	0.00
45 TMP Tetrachloroethene	1.000	1.049	-4.9	118	0.00
46 TMP Dibromochloromethane	1.000	0.866	13.4	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.032	-3.2	112	0.00
48 TMP Chlorobenzene	1.000	0.969	3.1	110	0.00
49 TMP Ethylbenzene	1.000	1.042	-4.2	114	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	0.971	2.9	114	0.00
51 TMP m,p-Xylene	2.000	2.032	-1.6	114	0.00
52 TMP o-Xylene	1.000	1.003	-0.3	114	0.00
53 TMP Styrene	1.000	0.987	1.3	119	0.00
54 TMP Isopropylbenzene	1.000	1.017	-1.7	121	0.00
55 TMP Bromoform	1.000	0.990	1.0	119	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	97	0.00
57 S 4-Bromofluorobenzene	10.000	10.241	-2.4	94	0.00
58 TMP n-Propylbenzene	1.000	1.023	-2.3	120	0.00
59 TMP Bromobenzene	1.000	1.129	-12.9	123	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	0.955	4.5	113	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	0.976	2.4	111	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.000	0.0	101	0.00
63 TMP 2-Chlorotoluene	1.000	1.005	-0.5	116	0.00
64 TMP 4-Chlorotoluene	1.000	1.018	-1.8	119	0.00
65 TMP tert-Butylbenzene	1.000	0.948	5.2	109	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	0.957	4.3	116	0.00
67 TMP sec-Butylbenzene	1.000	0.961	3.9	121	0.00
68 TMP p-Isopropyltoluene	1.000	0.942	5.8	112	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.060	-6.0	125	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.001	-0.1	119	0.00
71 TMP 1,2-Dichlorobenzene	1.000	0.973	2.7	114	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.896	10.4	89	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	0.958	4.2	120	0.00
74 TMP Hexachlorobutadiene	1.000	0.963	3.7	127	0.00
75 TMP Naphthalene	1.000	0.880	12.0	109	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	0.924	7.6	114	0.00

(#) = Out of Range

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



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	94	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.02
3 S Dibromofluoromethane	0.269	0.279	-3.7	95	0.00
4 TMP Dichlorodifluoromethane	0.697	0.762	-9.3	112	0.00
5 TMP Chloromethane	0.636	0.785	-23.4#	116	0.00
6 TMP Vinyl chloride	0.524	0.575	-9.7	109	0.00
7 TMP Bromomethane	0.407	0.000#	100.0#	0#	-1.52#
8 TMP Chloroethane	0.266	0.295	-10.9	105	0.00
9 TMP Trichlorofluoromethane	0.776	0.861	-11.0	113	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.047	0.056	-19.1	113	0.00
12 TMP 1,1-Dichloroethene	0.351	0.384	-9.4	113	0.00
13 TMP Hexane	0.281	0.325	-15.7	112	0.00
14 TMP Methylene chloride	0.232	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.026	0.025#	3.8	82	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.613	-9.7	104	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.299	-17.3	113	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.667	-12.9	115	0.00
19 TMP 1,1-Dichloroethane	0.348	0.397	-14.1	114	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.307	-19.5	118	0.00
21 TMP 2,2-Dichloropropane	0.247	0.307	-24.3#	120	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.299	-11.2	114	0.00
23 TMP Chloroform	0.384	0.413	-7.6	101	0.00
24 TMP 2-Butanone (MEK)	0.131	0.139	-6.1	104	0.00
25 TMP t-Amyl methyl ether (TAME)	0.541	0.575	-6.3	107	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.313	0.9	113	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.413	-15.0	114	0.00
28 TMP 1,1-Dichloropropene	0.286	0.308	-7.7	106	0.00
29 TMP Carbon tetrachloride	0.317	0.375	-18.3	120	0.00
30 S 1,2-Dichloroethane-d4	0.063	0.063	0.0	94	0.00
31 TMP Benzene	0.840	0.936	-11.4	114	0.00
32 TMP Trichloroethene	0.274	0.310	-13.1	115	0.00
33 TMP 1,2-Dichloropropane	0.192	0.220	-14.6	119	0.00
34 TMP Bromodichloromethane	0.265	0.298	-12.5	115	0.00
35 S Toluene-d8	0.932	0.942	-1.1	93	0.00
36 TMP Dibromomethane	0.149	0.177	-18.8	120	0.00
37 TMP 4-Methyl-2-pentanone	0.042	0.036	14.3	84	0.00
38 TMP cis-1,3-Dichloropropene	0.310	0.340	-9.7	115	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
40 TMP Toluene	0.774	0.827	-6.8	115	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.391	-10.5	119	0.01
42 TMP 1,1,2-Trichloroethane	0.216	0.234	-8.3	109	0.00
43 TMP 2-Hexanone	0.210	0.233	-11.0	98	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.412	-14.1	119	0.00
45 TMP Tetrachloroethene	0.329	0.367	-11.6	118	0.00
46 TMP Dibromochloromethane	0.305	0.298	2.3	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.323	-2.9	112	0.00
48 TMP Chlorobenzene	0.846	0.946	-11.8	110	0.00
49 TMP Ethylbenzene	1.339	1.485	-10.9	114	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.332	-12.2	114	0.00
51 TMP m,p-Xylene	0.560	0.612	-9.3	114	0.00
52 TMP o-Xylene	0.553	0.603	-9.0	114	0.00
53 TMP Styrene	0.814	0.952	-17.0	119	0.00
54 TMP Isopropylbenzene	1.267	1.476	-16.5	121	0.00
55 TMP Bromoform	0.232	0.247	-6.5	119	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
57 S 4-Bromofluorobenzene	0.749	0.741	1.1	94	0.00
58 TMP n-Propylbenzene	2.492	2.924	-17.3	120	0.00
59 TMP Bromobenzene	0.689	0.886	-28.6#	123	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.084	-6.3	113	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.609	-5.7	111	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.452#	-5.9	101	0.00
63 TMP 2-Chlorotoluene	1.486	1.650	-11.0	116	0.00
64 TMP 4-Chlorotoluene	1.755	2.008	-14.4	119	0.00
65 TMP tert-Butylbenzene	1.793	1.928	-7.5	109	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.188	-7.8	116	0.00
67 TMP sec-Butylbenzene	2.486	2.816	-13.3	121	0.00
68 TMP p-Isopropyltoluene	2.169	2.417	-11.4	112	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.569	-21.9#	125	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.472	-13.0	119	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.377	-11.7	114	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.108	6.9	89	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.018	-10.4	120	0.00
74 TMP Hexachlorobutadiene	0.469	0.553	-17.9	127	0.00
75 TMP Naphthalene	2.177	2.080	4.5	109	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	0.908	-5.7	114	0.00

(#) = Out of Range

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	249516	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	199911	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	115620	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	69649	10.134	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	101.30%	
30) 1,2-Dichloroethane-d4	4.35	102	15830	10.175	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	101.80%	
35) Toluene-d8	5.97	98	235103	10.029	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.30%	
57) 4-Bromofluorobenzene	8.37	95	85700	10.241	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	102.40%	
Target Compounds						
2) Ethanol	1.96	45	931	No Calib	#	Qvalue
4) Dichlorodifluoromethane	1.09	85	19005	0.942	ppb	94
5) Chloromethane	1.22	50	19579	1.045	ppb	93
6] Vinyl chloride	1.29	62	14346m	0.975	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8] Chloroethane	1.60	64	7371m	0.993	ppb	
9) Trichlorofluoromethane	1.78	101	21487	0.938	ppb	84
10) 2-Propanol	2.39	45	2298	No Calib		
11) Acetone	2.25	58	7020	5.270	ppb	96
12] 1,1-Dichloroethene	2.19	96	9585	1.037	ppb	93
13) Hexane	3.05	57	8114	0.992	ppb	68
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	2.73	59	3150	5.109	ppb	88
16] Methyl t-butyl ether (...)	2.83	73	15301m	1.002	ppb	
17] trans-1,2-Dichloroethene	2.82	96	7471	1.120	ppb	91
18) Diisopropyl ether (DIPE)	3.24	45	16643	1.000	ppb	97
19] 1,1-Dichloroethane	3.17	63	9910	1.000	ppb	95
20) Ethyl t-butyl ether (E...)	3.54	87	7655	1.059	ppb	# 77
21) 2,2-Dichloropropane	3.66	77	7662	1.089	ppb	97
22] cis-1,2-Dichloroethene	3.66	96	7450	0.979	ppb	94
23) Chloroform	3.94	83	10312	0.953	ppb	99
24) 2-Butanone (MEK)	3.70	43	17280	4.683	ppb	89
25) t-Amyl methyl ether (T...)	4.49	73	14346	1.006	ppb	96
26] 1,2-Dichloroethane (EDC)	4.41	62	7806	1.067	ppb	97
27] 1,1,1-Trichloroethane	4.07	97	10314	0.986	ppb	96
28) 1,1-Dichloropropene	4.21	75	7685	0.925	ppb	89
29) Carbon tetrachloride	4.21	117	9358	0.972	ppb	90
31] Benzene	4.39	78	23348	1.042	ppb	98
32] Trichloroethene	4.93	95	7731	1.040	ppb	83
33) 1,2-Dichloropropane	5.12	63	5491	0.993	ppb	97
34) Bromodichloromethane	5.37	83	7430	0.992	ppb	91
36) Dibromomethane	5.22	93	4404	1.070	ppb	83

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

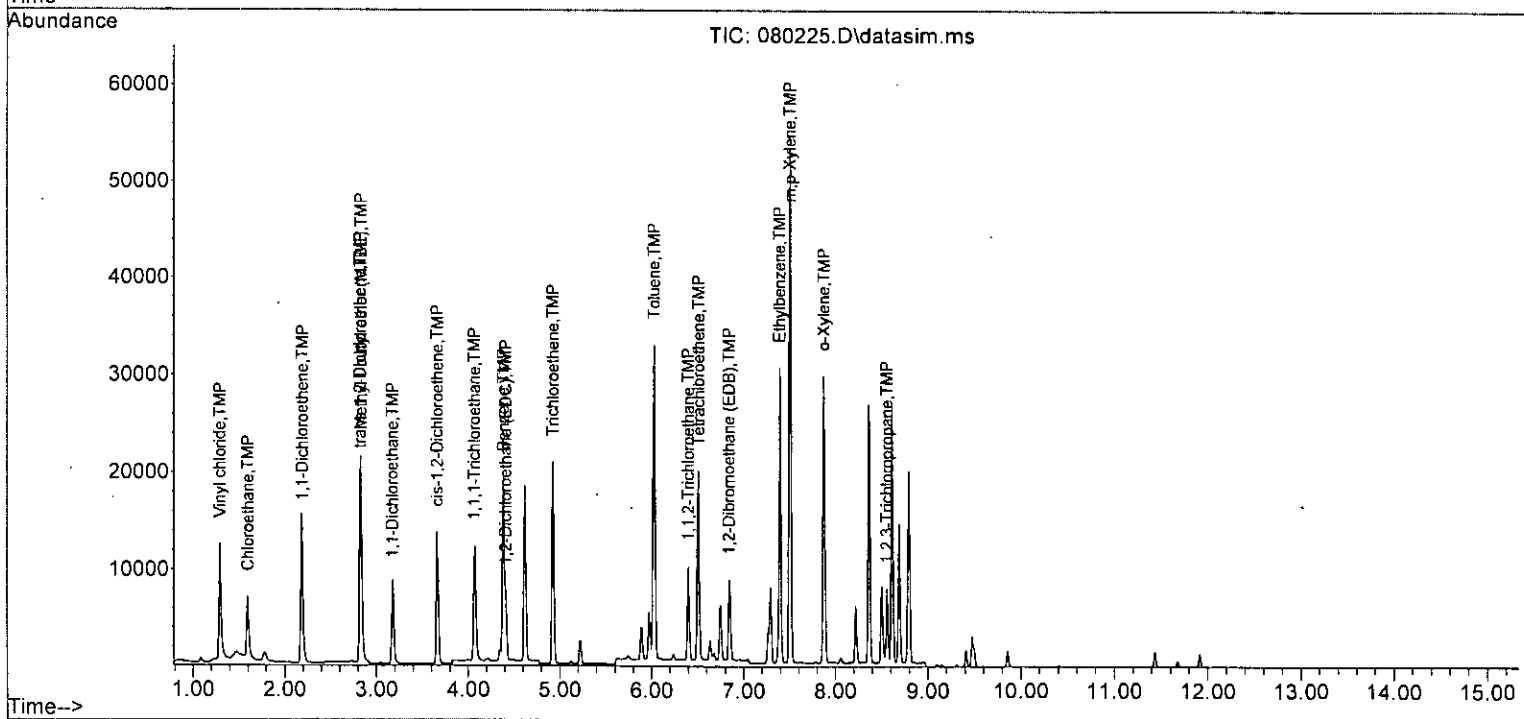
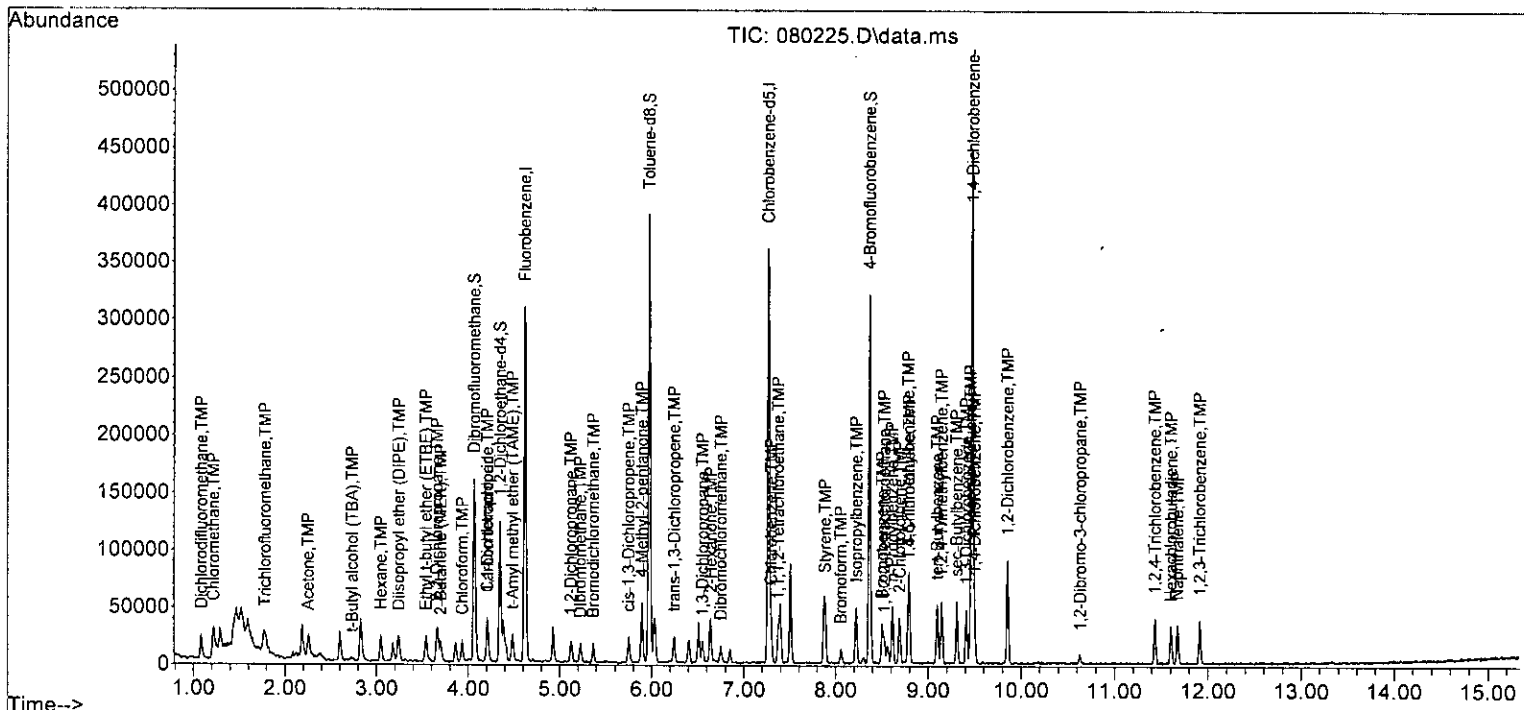
Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	4504	4.017	ppb #	66
38) cis-1,3-Dichloropropene	5.75	75	8488	0.964	ppb	75
40] Toluene	6.03	92	16532	1.034	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	7825	1.005	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	4668	0.973	ppb	97
43) 2-Hexanone	6.64	43	23245	5.002	ppb	97
44) 1,3-Dichloropropane	6.55	76	8246	1.031	ppb	85
45] Tetrachloroethene	6.51	164	7331	1.049	ppb	99
46) Dibromochloromethane	6.75	129	5950	0.866	ppb	95
47] 1,2-Dibromoethane (EDB)	6.84	107	6455	1.032	ppb	98
48) Chlorobenzene	7.30	112	18917	0.969	ppb	96
49] Ethylbenzene	7.39	91	29680	1.042	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	6647	0.971	ppb	87
51] m,p-Xylene	7.50	106	24487	2.032	ppb	98
52] o-Xylene	7.87	106	12056	1.003	ppb	100
53) Styrene	7.89	104	19034	0.987	ppb	96
54) Isopropylbenzene	8.23	105	29508	1.017	ppb	100
55) Bromoform	8.06	173	4946	0.990	ppb	91
58) n-Propylbenzene	8.61	91	33804	1.023	ppb	93
59) Bromobenzene	8.50	156	10239	1.129	ppb	95
60) 1,3,5-Trimethylbenzene	8.79	105	24096	0.955	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.53	83	7044	0.976	ppb	95
62] 1,2,3-Trichloropropane	8.56	75	5231	1.000	ppb	99
63) 2-Chlorotoluene	8.69	91	19082	1.005	ppb	93
64) 4-Chlorotoluene	8.80	91	23219	1.018	ppb	98
65) tert-Butylbenzene	9.10	119	22288	0.948	ppb	93
66) 1,2,4-Trimethylbenzene	9.15	105	25295	0.957	ppb	97
67) sec-Butylbenzene	9.31	105	32556	0.961	ppb	95
68) p-Isopropyltoluene	9.46	119	27942	0.942	ppb	95
69) 1,3-Dichlorobenzene	9.41	146	18145	1.060	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	17015	1.001	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	15917	0.973	ppb	88
72) 1,2-Dibromo-3-chloropr...	10.63	75	1247	0.896	ppb	98
73) 1,2,4-Trichlorobenzene	11.43	180	11769	0.958	ppb	92
74) Hexachlorobutadiene	11.61	225	6395	0.963	ppb	95
75) Naphthalene	11.68	128	24048	0.880	ppb	93
76) 1,2,3-Trichlorobenzene	11.91	180	10504	0.924	ppb	96

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080225.D  
 Acq On : 02 Aug 2023 06:50 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

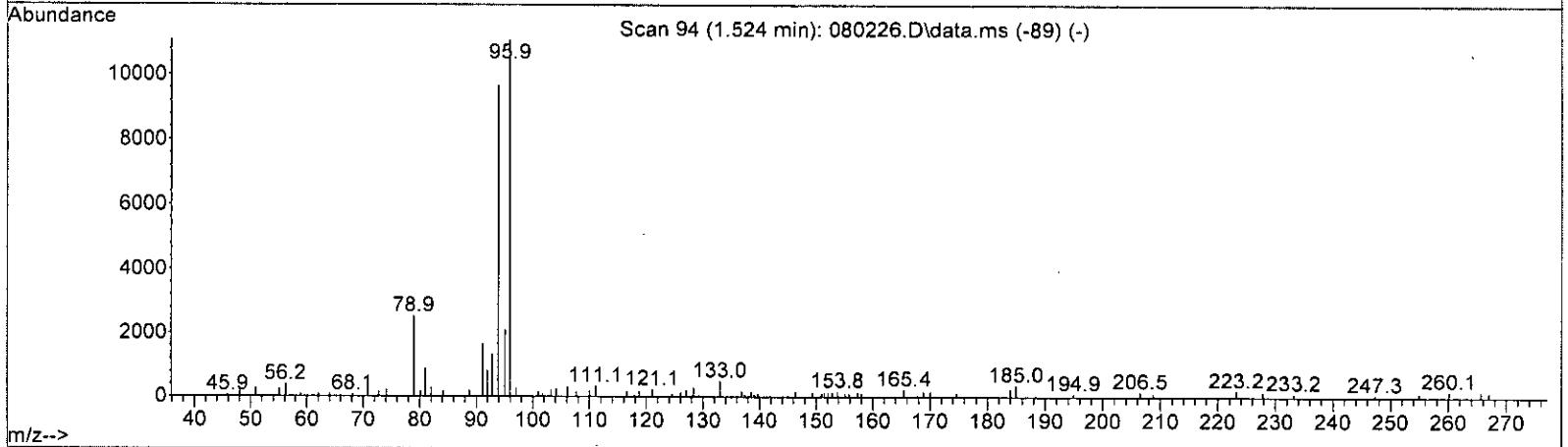
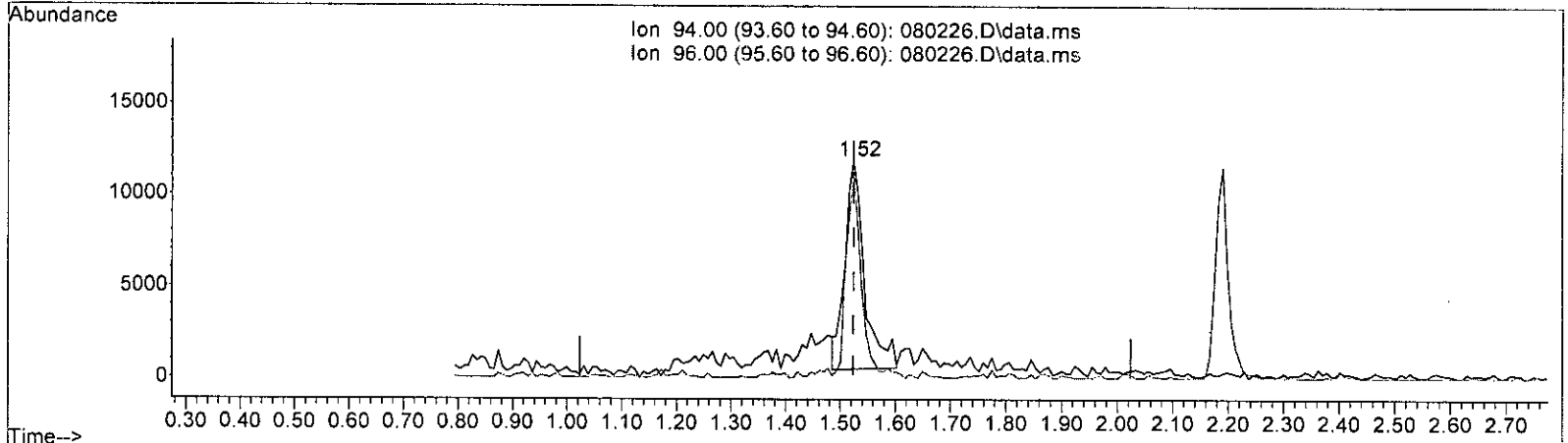
Quant Time: Aug 03 09:53:47 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080226.D\data.ms

(7) Bromomethane (TMP)

1.524min (+ 0.000) 2.557 ppb

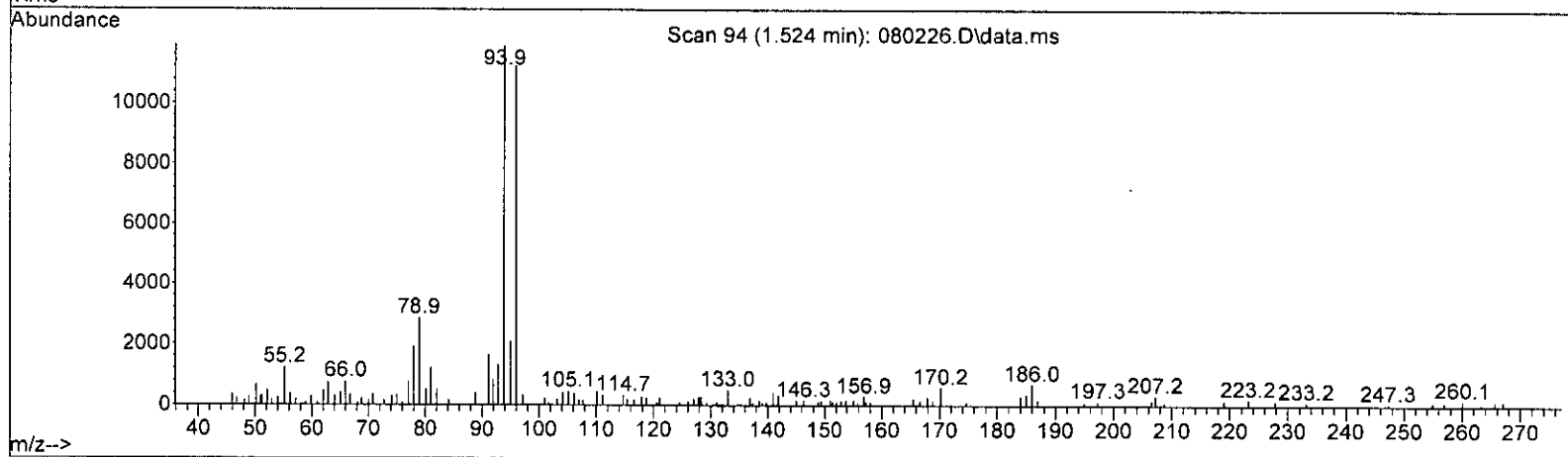
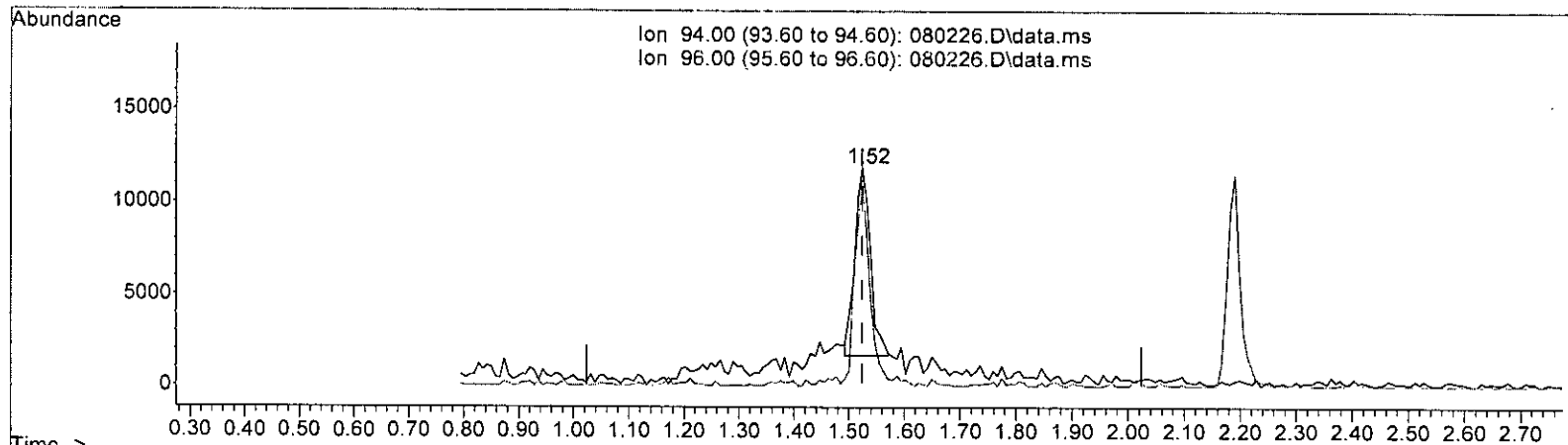
response 28225

Ion	Exp%	Act%
94.00	100.00	100.00
96.00	87.80	98.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080226.D\data.ms

(7) Bromomethane (TMP)

1.524min (+ 0.000) 1.812 ppb m

response	20006
Ion	Exp% Act%
94.00	100.00 100.00
96.00	87.80 94.39
0.00	0.00 0.00
0.00	0.00 0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	93	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.00
3 S	Dibromofluoromethane	10.000	10.291	-2.9	98	0.00
4 TMP	Dichlorodifluoromethane	2.000	1.824	8.8	112	0.00
5 TMP	Chloromethane	2.000	2.001	-0.0	112	0.00
6 TMP	Vinyl chloride	2.000	2.029	-1.4	106	0.00
7 TMP	Bromomethane	2.000	1.812	9.4	73	0.00
8 TMP	Chloroethane	2.000	2.039	-2.0	106	0.00
9 TMP	Trichlorofluoromethane	2.000	1.949	2.5	116	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	10.000	9.472	5.3	101	0.00
12 TMP	1,1-Dichloroethene	2.000	2.012	-0.6	105	0.00
13 TMP	Hexane	2.000	2.034	-1.7	103	0.00
14 TMP	Methylene chloride	2.000	1.928	3.6	102	0.00
15 TMP	t-Butyl alcohol (TBA)	10.000	9.854	1.5	82	0.00
16 TMP	Methyl t-butyl ether (MTBE)	2.000	2.021	-1.0	102	0.00
17 TMP	trans-1,2-Dichloroethene	2.000	2.171	-8.5	107	0.00
18 TMP	Diisopropyl ether (DIPE)	2.000	1.937	3.1	105	0.00
19 TMP	1,1-Dichloroethane	2.000	1.980	1.0	105	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	2.000	1.877	6.2	98	0.00
21 TMP	2,2-Dichloropropane	2.000	2.237	-11.9	112	0.00
22 TMP	cis-1,2-Dichloroethene	2.000	1.953	2.3	106	0.00
23 TMP	Chloroform	2.000	1.949	2.5	109	0.00
24 TMP	2-Butanone (MEK)	10.000	9.267	7.3	108	0.00
25 TMP	t-Amyl methyl ether (TAME)	2.000	1.958	2.1	95	0.00
26 TMP	1,2-Dichloroethane (EDC)	2.000	2.109	-5.4	104	0.00
27 TMP	1,1,1-Trichloroethane	2.000	1.956	2.2	108	0.00
28 TMP	1,1-Dichloropropene	2.000	1.887	5.6	104	0.00
29 TMP	Carbon tetrachloride	2.000	1.908	4.6	109	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.284	-2.8	95	0.00
31 TMP	Benzene	2.000	2.082	-4.1	105	0.00
32 TMP	Trichloroethene	2.000	2.052	-2.6	107	0.00
33 TMP	1,2-Dichloropropane	2.000	1.890	5.5	99	0.00
34 TMP	Bromodichloromethane	2.000	1.946	2.7	103	0.00
35 S	Toluene-d8	10.000	9.771	2.3	91	0.00
36 TMP	Dibromomethane	2.000	2.090	-4.5	101	0.00
37 TMP	4-Methyl-2-pentanone	10.000	9.524	4.8	99	0.00
38 TMP	cis-1,3-Dichloropropene	2.000	1.959	2.0	103	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	91	0.00
40 TMP	Toluene	2.000	2.142	-7.1	105	0.00
41 TMP	trans-1,3-Dichloropropene	2.000	1.980	1.0	104	0.01
42 TMP	1,1,2-Trichloroethane	2.000	2.013	-0.6	101	0.00
43 TMP	2-Hexanone	10.000	10.410	-4.1	106	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.072	-3.6	97	0.00
45 TMP Tetrachloroethene	2.000	2.169	-8.5	109	0.00
46 TMP Dibromochloromethane	2.000	2.062	-3.1	106	0.00
47 TMP 1,2-Dibromoethane (EDB)	2.000	2.102	-5.1	102	0.00
48 TMP Chlorobenzene	2.000	2.021	-1.0	100	0.00
49 TMP Ethylbenzene	2.000	2.162	-8.1	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	2.169	-8.5	117	0.00
51 TMP m,p-Xylene	4.000	4.244	-6.1	105	0.00
52 TMP o-Xylene	2.000	2.094	-4.7	105	0.00
53 TMP Styrene	2.000	2.074	-3.7	110	0.00
54 TMP Isopropylbenzene	2.000	2.083	-4.2	106	0.00
55 TMP Bromoform	2.000	1.905	4.7	99	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	93	0.00
57 S 4-Bromofluorobenzene	10.000	9.844	1.6	87	0.00
58 TMP n-Propylbenzene	2.000	2.163	-8.1	113	0.00
59 TMP Bromobenzene	2.000	1.927	3.6	97	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	1.979	1.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.023	-1.2	99	0.00
62 TMP 1,2,3-Trichloropropane	2.000	2.066	-3.3	97	0.00
63 TMP 2-Chlorotoluene	2.000	2.084	-4.2	106	0.00
64 TMP 4-Chlorotoluene	2.000	2.069	-3.4	108	0.00
65 TMP tert-Butylbenzene	2.000	1.992	0.4	107	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	2.005	-0.2	107	0.00
67 TMP sec-Butylbenzene	2.000	1.985	0.7	112	0.00
68 TMP p-Isopropyltoluene	2.000	1.945	2.7	108	0.00
69 TMP 1,3-Dichlorobenzene	2.000	2.145	-7.3	115	0.00
70 TMP 1,4-Dichlorobenzene	2.000	2.090	-4.5	108	0.00
71 TMP 1,2-Dichlorobenzene	2.000	2.115	-5.8	111	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	1.898	5.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	2.058	-2.9	118	0.00
74 TMP Hexachlorobutadiene	2.000	2.079	-4.0	123	0.00
75 TMP Naphthalene	2.000	1.862	6.9	101	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	2.060	-3.0	110	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	93	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.283	-5.2	98	0.00
4 TMP Dichlorodifluoromethane	0.697	0.738	-5.9	112	0.00
5 TMP Chloromethane	0.636	0.751	-18.1	112	0.00
6 TMP Vinyl chloride	0.524	0.598	-14.1	106	0.00
7 TMP Bromomethane	0.407	0.406	0.2	73	0.00
8 TMP Chloroethane	0.266	0.303	-13.9	106	0.00
9 TMP Trichlorofluoromethane	0.776	0.894	-15.2	116	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.047	0.051	-8.5	101	0.00
12 TMP 1,1-Dichloroethene	0.351	0.372	-6.0	105	0.00
13 TMP Hexane	0.281	0.333	-18.5	103	0.00
14 TMP Methylene chloride	0.232	0.302	-30.2#	102	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.024#	7.7	82	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.619	-10.7	102	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.289	-13.3	107	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.646	-9.3	105	0.00
19 TMP 1,1-Dichloroethane	0.348	0.393	-12.9	105	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.272	-5.8	98	0.00
21 TMP 2,2-Dichloropropane	0.247	0.294	-19.0	112	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.298	-10.8	106	0.00
23 TMP Chloroform	0.384	0.423	-10.2	109	0.00
24 TMP 2-Butanone (MEK)	0.131	0.137	-4.6	108	0.00
25 TMP t-Amyl methyl ether (TAME)	0.541	0.560	-3.5	95	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.305	3.5	104	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.410	-14.2	108	0.00
28 TMP 1,1-Dichloropropene	0.286	0.314	-9.8	104	0.00
29 TMP Carbon tetrachloride	0.317	0.368	-16.1	109	0.00
30 S 1,2-Dichloroethane-d4	0.063	0.064	-1.6	95	0.00
31 TMP Benzene	0.840	0.930	-10.7	105	0.00
32 TMP Trichloroethene	0.274	0.304	-10.9	107	0.00
33 TMP 1,2-Dichloropropane	0.192	0.209	-8.9	99	0.00
34 TMP Bromodichloromethane	0.265	0.292	-10.2	103	0.00
35 S Toluene-d8	0.932	0.918	1.5	91	0.00
36 TMP Dibromomethane	0.149	0.172	-15.4	101	0.00
37 TMP 4-Methyl-2-pentanone	0.042	0.043	-2.4	99	0.00
38 TMP cis-1,3-Dichloropropene	0.310	0.346	-11.6	103	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
40 TMP Toluene	0.774	0.849	-9.7	105	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.386	-9.0	104	0.01
42 TMP 1,1,2-Trichloroethane	0.216	0.242	-12.0	101	0.00
43 TMP 2-Hexanone	0.210	0.242	-15.2	106	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.414	-14.7	97	0.00
45 TMP Tetrachloroethene	0.329	0.376	-14.3	109	0.00
46 TMP Dibromochloromethane	0.305	0.354	-16.1	106	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.327	-4.1	102	0.00
48 TMP Chlorobenzene	0.846	0.987	-16.7	100	0.00
49 TMP Ethylbenzene	1.339	1.532	-14.4	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.371	-25.3#	117	0.00
51 TMP m,p-Xylene	0.560	0.637	-13.7	105	0.00
52 TMP o-Xylene	0.553	0.628	-13.6	105	0.00
53 TMP Styrene	0.814	1.000	-22.9#	110	0.00
54 TMP Isopropylbenzene	1.267	1.511	-19.3	106	0.00
55 TMP Bromoform	0.232	0.238	-2.6	99	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
57 S 4-Bromofluorobenzene	0.749	0.713	4.8	87	0.00
58 TMP n-Propylbenzene	2.492	3.090	-24.0#	113	0.00
59 TMP Bromobenzene	0.689	0.755	-9.6	97	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.159	-10.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.632	-9.7	99	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.467#	-9.4	97	0.00
63 TMP 2-Chlorotoluene	1.486	1.710	-15.1	106	0.00
64 TMP 4-Chlorotoluene	1.755	2.040	-16.2	108	0.00
65 TMP tert-Butylbenzene	1.793	2.024	-12.9	107	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.291	-12.9	107	0.00
67 TMP sec-Butylbenzene	2.486	2.907	-16.9	112	0.00
68 TMP p-Isopropyltoluene	2.169	2.496	-15.1	108	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.587	-23.3#	115	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.536	-17.9	108	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.497	-21.4#	111	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.114	1.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.093	-18.5	118	0.00
74 TMP Hexachlorobutadiene	0.469	0.597	-27.3#	123	0.00
75 TMP Naphthalene	2.177	2.201	-1.1	101	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	1.012	-17.8	110	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	246589	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	189172	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	111024	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	69902	10.291	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.90%	
30) 1,2-Dichloroethane-d4	4.35	102	15811	10.284	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	102.80%	
35) Toluene-d8	5.97	98	226371	9.771	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	97.70%	
57) 4-Bromofluorobenzene	8.37	95	79106	9.844	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	98.40%	
Target Compounds						
						Qvalue
2) Ethanol	1.95	45	391	No Calib	#	
4) Dichlorodifluoromethane	1.09	85	36374	1.824	ppb	94
5) Chloromethane	1.22	50	37049	2.001	ppb	94
6] Vinyl chloride	1.29	62	29502	2.029	ppb	93
7) Bromomethane	1.52	94	20006m	1.812	ppb	
8] Chloroethane	1.59	64	14957	2.039	ppb	99
9) Trichlorofluoromethane	1.77	101	44097	1.949	ppb	93
10) 2-Propanol	2.39	45	2260	No Calib		
11) Acetone	2.25	58	12470	9.472	ppb	96
12] 1,1-Dichloroethene	2.18	96	18324	2.012	ppb	86
13) Hexane	3.05	57	16445	2.034	ppb	95
14) Methylene chloride	2.60	84	14881	1.928	ppb	94
15) t-Butyl alcohol (TBA)	2.72	59	6004	9.854	ppb	93
16] Methyl t-butyl ether (...)	2.83	73	30515	2.021	ppb	96
17] trans-1,2-Dichloroethene	2.82	96	14241	2.171	ppb	93
18) Diisopropyl ether (DIPE)	3.24	45	31851	1.937	ppb	97
19] 1,1-Dichloroethane	3.17	63	19389	1.980	ppb	96
20) Ethyl t-butyl ether (E...)	3.54	87	13404	1.877	ppb	88
21) 2,2-Dichloropropane	3.66	77	14475	2.237	ppb	92
22] cis-1,2-Dichloroethene	3.66	96	14689	1.953	ppb	95
23) Chloroform	3.94	83	20845	1.949	ppb	87
24) 2-Butanone (MEK)	3.70	43	33798	9.267	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	27595	1.958	ppb	99
26] 1,2-Dichloroethane (EDC)	4.41	62	15046	2.109	ppb	99
27] 1,1,1-Trichloroethane	4.07	97	20218	1.956	ppb	97
28) 1,1-Dichloropropene	4.21	75	15495	1.887	ppb	92
29) Carbon tetrachloride	4.21	117	18143	1.908	ppb	98
31] Benzene	4.38	78	45878	2.082	ppb	98
32] Trichloroethene	4.93	95	15016	2.052	ppb #	79
33) 1,2-Dichloropropane	5.12	63	10330	1.890	ppb	95
34) Bromodichloromethane	5.37	83	14398	1.946	ppb	92
36) Dibromomethane	5.22	93	8498	2.090	ppb	85

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

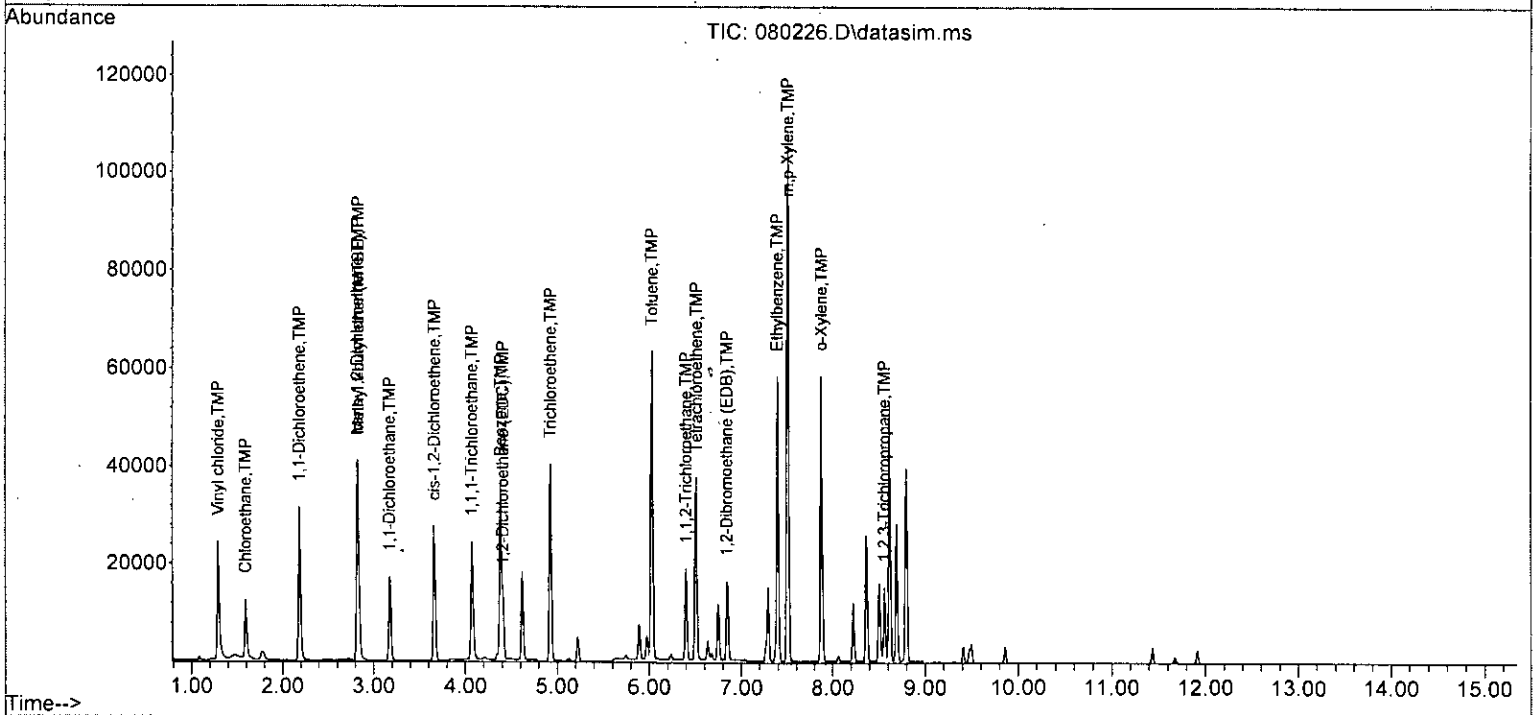
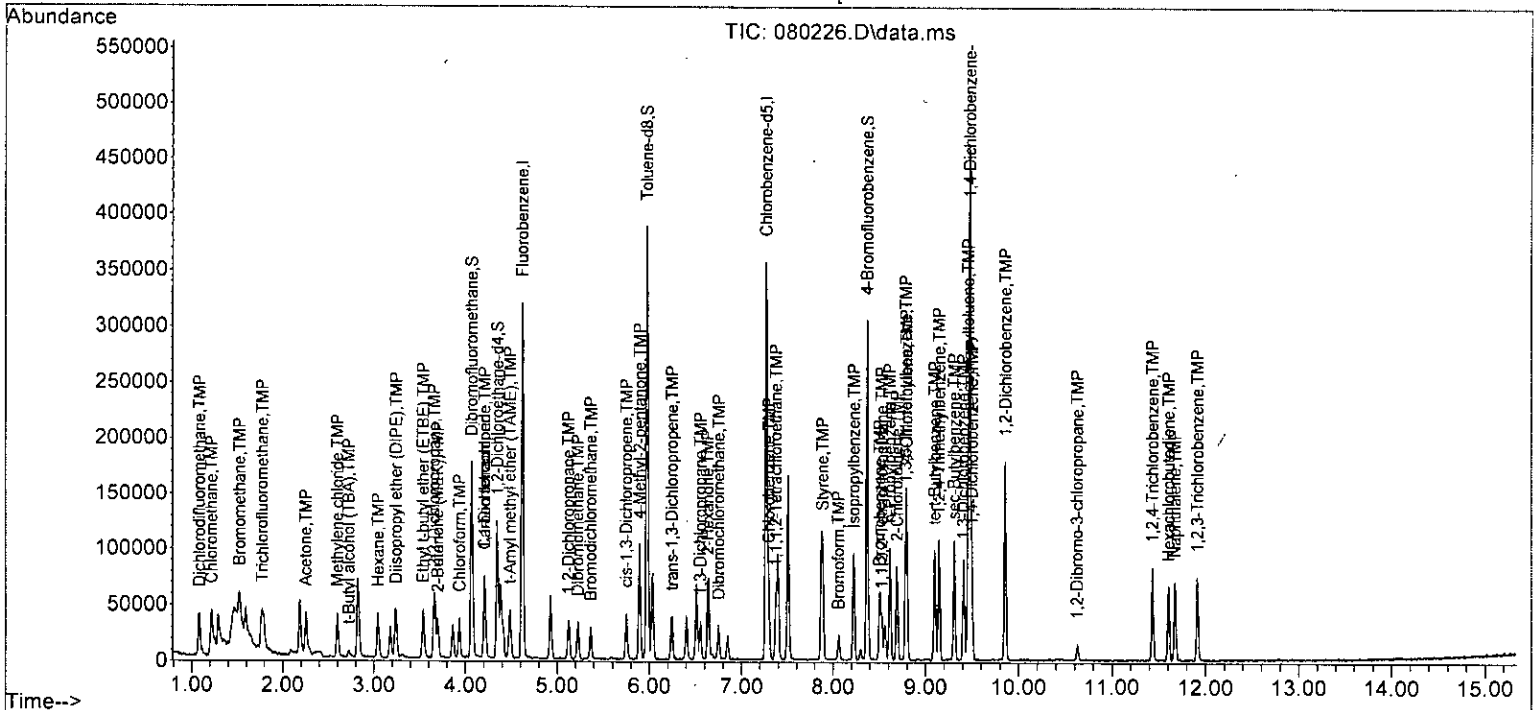
Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.89	85	10553	9.524	ppb	92
38) cis-1,3-Dichloropropene	5.75	75	17053	1.959	ppb	97
40] Toluene	6.03	92	32135	2.142	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	14592	-1.980	ppb	88
42] 1,1,2-Trichloroethane	6.40	83	9140	2.013	ppb	99
43) 2-Hexanone	6.63	43	45777	10.410	ppb	92
44) 1,3-Dichloropropane	6.55	76	15682	2.072	ppb	96
45] Tetrachloroethene	6.51	164	14225	2.169	ppb	99
46) Dibromochloromethane	6.75	129	13400	2.062	ppb	88
47] 1,2-Dibromoethane (EDB)	6.84	107	12379	2.102	ppb	100
48) Chlorobenzene	7.30	112	37346	2.021	ppb	96
49] Ethylbenzene	7.39	91	57968	2.162	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	14051	2.169	ppb	93
51] m,p-Xylene	7.50	106	48191	4.244	ppb	99
52] o-Xylene	7.87	106	23750	2.094	ppb	100
53) Styrene	7.89	104	37840	2.074	ppb	94
54) Isopropylbenzene	8.23	105	57155	2.083	ppb	98
55) Bromoform	8.06	173	9009	1.905	ppb	93
58) n-Propylbenzene	8.61	91	68617	2.163	ppb	93
59) Bromobenzene	8.50	156	16774	1.927	ppb	93
60) 1,3,5-Trimethylbenzene	8.79	105	47942	1.979	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.53	83	14024	2.023	ppb	93
62] 1,2,3-Trichloropropane	8.56	75	10373	2.066	ppb	100
63) 2-Chlorotoluene	8.69	91	37978	2.084	ppb	97
64) 4-Chlorotoluene	8.80	91	45305	2.069	ppb	99
65) tert-Butylbenzene	9.10	119	44946	1.992	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	50876	2.005	ppb	97
67) sec-Butylbenzene	9.31	105	64548	1.985	ppb	98
68) p-Isopropyltoluene	9.46	119	55422	1.945	ppb	97
69) 1,3-Dichlorobenzene	9.41	146	35242	2.145	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	34107	2.090	ppb	97
71) 1,2-Dichlorobenzene	9.86	146	33233	2.115	ppb	84
72) 1,2-Dibromo-3-chloropr...	10.63	75	2538	1.898	ppb	84
73) 1,2,4-Trichlorobenzene	11.43	180	24265	2.058	ppb	91
74) Hexachlorobutadiene	11.61	225	13254	2.079	ppb	88
75) Naphthalene	11.68	128	48883	1.862	ppb	96
76) 1,2,3-Trichlorobenzene	11.91	180	22482	2.060	ppb	91

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080226.D  
 Acq On : 02 Aug 2023 07:13 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:49 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080227.D  
 Acq On : 02 Aug 2023 07:35 pm  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:51 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	90	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.00
3 5	Dibromofluoromethane	10.000	10.635	-6.3	98	0.00
4 TMP	Dichlorodifluoromethane	5.000	5.157	-3.1	0	0.00
5 TMP	Chloromethane	5.000	5.039	-0.8	0	0.00
6 TMP	Vinyl chloride	5.000	5.304	-6.1	0	0.00
7 TMP	Bromomethane	5.000	5.322	-6.4	0	0.00
8 TMP	Chloroethane	5.000	5.156	-3.1	0	0.00
9 TMP	Trichlorofluoromethane	5.000	4.930	1.4	0	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	25.000	24.931	0.3	0	0.00
12 TMP	1,1-Dichloroethene	5.000	5.171	-3.4	0	0.00
13 TMP	Hexane	5.000	4.930	1.4	0	0.00
14 TMP	Methylene chloride	5.000	5.063	-1.3	0	0.00
15 TMP	t-Butyl alcohol (TBA)	25.000	21.667	13.3	0	0.00
16 TMP	Methyl t-butyl ether (MTBE)	5.000	5.058	-1.2	0	0.00
17 TMP	trans-1,2-Dichloroethene	5.000	5.291	-5.8	0	0.00
18 TMP	Diisopropyl ether (DIPE)	5.000	5.045	-0.9	0	0.00
19 TMP	1,1-Dichloroethane	5.000	4.977	0.5	0	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	5.000	4.657	6.9	0	0.00
21 TMP	2,2-Dichloropropane	5.000	5.431	-8.6	0	0.00
22 TMP	cis-1,2-Dichloroethene	5.000	4.905	1.9	0	0.00
23 TMP	Chloroform	5.000	4.982	0.4	0	0.00
24 TMP	2-Butanone (MEK)	25.000	24.033	3.9	0	0.00
25 TMP	t-Amyl methyl ether (TAME)	5.000	4.973	0.5	0	0.00
26 TMP	1,2-Dichloroethane (EDC)	5.000	5.213	-4.3	0	0.00
27 TMP	1,1,1-Trichloroethane	5.000	4.937	1.3	0	0.00
28 TMP	1,1-Dichloropropene	5.000	4.754	4.9	0	0.00
29 TMP	Carbon tetrachloride	5.000	4.690	6.2	0	0.00
30 5	1,2-Dichloroethane-d4	10.000	10.034	-0.3	85	0.00
31 TMP	Benzene	5.000	5.207	-4.1	0	0.00
32 TMP	Trichloroethene	5.000	5.111	-2.2	0	0.00
33 TMP	1,2-Dichloropropane	5.000	4.633	7.3	0	0.00
34 TMP	Bromodichloromethane	5.000	4.769	4.6	0	0.00
35 5	Toluene-d8	10.000	10.296	-3.0	95	0.00
36 TMP	Dibromomethane	5.000	4.764	4.7	0	0.00
37 TMP	4-Methyl-2-pentanone	25.000	23.300	6.8	0	0.00
38 TMP	cis-1,3-Dichloropropene	5.000	4.720	5.6	0	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	91	0.00
40 TMP	Toluene	5.000	5.084	-1.7	0	0.00
41 TMP	trans-1,3-Dichloropropene	5.000	4.827	3.5	0	0.01
42 TMP	1,1,2-Trichloroethane	5.000	4.755	4.9	0	0.00
43 TMP	2-Hexanone	25.000	23.963	4.1	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080227.D  
 Acq On : 02 Aug 2023 07:35 pm  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:51 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.742	5.2	0	0.00
45 TMP Tetrachloroethene	5.000	5.082	-1.6	0	0.00
46 TMP Dibromochloromethane	5.000	4.791	4.2	0	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	4.974	0.5	0	0.00
48 TMP Chlorobenzene	5.000	4.941	1.2	0	0.00
49 TMP Ethylbenzene	5.000	5.126	-2.5	0	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.989	0.2	0	0.00
51 TMP m,p-Xylene	10.000	10.061	-0.6	0	0.00
52 TMP o-Xylene	5.000	4.986	0.3	0	0.00
53 TMP Styrene	5.000	4.845	3.1	0	0.00
54 TMP Isopropylbenzene	5.000	4.913	1.7	0	0.00
55 TMP Bromoform	5.000	4.690	6.2	0	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	10.000	10.109	-1.1	94	0.00
58 TMP n-Propylbenzene	5.000	4.713	5.7	0	0.00
59 TMP Bromobenzene	5.000	4.645	7.1	0	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.842	3.2	0	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	4.699	6.0	0	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.810	3.8	0	0.00
63 TMP 2-Chlorotoluene	5.000	4.900	2.0	0	0.00
64 TMP 4-Chlorotoluene	5.000	4.868	2.6	0	0.00
65 TMP tert-Butylbenzene	5.000	4.858	2.8	0	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.750	5.0	0	0.00
67 TMP sec-Butylbenzene	5.000	4.735	5.3	0	0.00
68 TMP p-Isopropyltoluene	5.000	4.750	5.0	0	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.828	3.4	0	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.819	3.6	0	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.860	2.8	0	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	4.703	5.9	0	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.622	7.6	0	0.00
74 TMP Hexachlorobutadiene	5.000	4.984	0.3	0	0.00
75 TMP Naphthalene	5.000	4.528	9.4	0	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.704	5.9	0	0.00

(#) = Out of Range

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



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080227.D  
 Acq On : 02 Aug 2023 07:35 pm  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:51 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	90	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.293	-8.9	98	0.00
4 TMP Dichlorodifluoromethane	0.697	0.834	-19.7	0#	0.00
5 TMP Chloromethane	0.636	0.757	-19.0	0#	0.00
6 TMP Vinyl chloride	0.524	0.626	-19.5	0#	0.00
7 TMP Bromomethane	0.407	0.477	-17.2	0#	0.00
8 TMP Chloroethane	0.266	0.307	-15.4	0#	0.00
9 TMP Trichlorofluoromethane	0.776	0.905	-16.6	0#	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.047	0.053	-12.8	0#	0.00
12 TMP 1,1-Dichloroethene	0.351	0.381	-8.5	0#	0.00
13 TMP Hexane	0.281	0.323	-14.9	0#	0.00
14 TMP Methylene chloride	0.232	0.274	-18.1	0#	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.021#	19.2	0#	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.619	-10.7	0#	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.281	-10.2	0#	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.673	-13.9	0#	0.00
19 TMP 1,1-Dichloroethane	0.348	0.395	-13.5	0#	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.270	-5.1	0#	0.00
21 TMP 2,2-Dichloropropane	0.247	0.273	-10.5	0#	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.299	-11.2	0#	0.00
23 TMP Chloroform	0.384	0.432	-12.5	0#	0.00
24 TMP 2-Butanone (MEK)	0.131	0.142	-8.4	0#	0.00
25 TMP t-Amyl methyl ether (TAME)	0.541	0.569	-5.2	0#	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.299	5.4	0#	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.414	-15.3	0#	0.00
28 TMP 1,1-Dichloropropene	0.286	0.317	-10.8	0#	0.00
29 TMP Carbon tetrachloride	0.317	0.362	-14.2	0#	0.00
30 S 1,2-Dichloroethane-d4	0.063	0.063	0.0	85	0.00
31 TMP Benzene	0.840	0.928	-10.5	0#	0.00
32 TMP Trichloroethene	0.274	0.303	-10.6	0#	0.00
33 TMP 1,2-Dichloropropane	0.192	0.205	-6.8	0#	0.00
34 TMP Bromodichloromethane	0.265	0.286	-7.9	0#	0.00
35 S Toluene-d8	0.932	0.967	-3.8	95	0.00
36 TMP Dibromomethane	0.149	0.157	-5.4	0#	0.00
37 TMP 4-Methyl-2-pentanone	0.042	0.042	0.0	0#	0.00
38 TMP cis-1,3-Dichloropropene	0.310	0.333	-7.4	0#	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
40 TMP Toluene	0.774	0.803	-3.7	0#	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.376	-6.2	0#	0.01
42 TMP 1,1,2-Trichloroethane	0.216	0.228	-5.6	0#	0.00
43 TMP 2-Hexanone	0.210	0.223	-6.2	0#	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080227.D  
 Acq On : 02 Aug 2023 07:35 pm  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:51 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.379	-5.0	0#	0.00
45 TMP Tetrachloroethene	0.329	0.351	-6.7	0#	0.00
46 TMP Dibromochloromethane	0.305	0.329	-7.9	0#	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.309	1.6	0#	0.00
48 TMP Chlorobenzene	0.846	0.966	-14.2	0#	0.00
49 TMP Ethylbenzene	1.339	1.449	-8.2	0#	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.342	-15.5	0#	0.00
51 TMP m,p-Xylene	0.560	0.603	-7.7	0#	0.00
52 TMP o-Xylene	0.553	0.597	-8.0	0#	0.00
53 TMP Styrene	0.814	0.934	-14.7	0#	0.00
54 TMP Isopropylbenzene	1.267	1.426	-12.5	0#	0.00
55 TMP Bromoform	0.232	0.235	-1.3	0#	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	0.749	0.732	2.3	94	0.00
58 TMP n-Propylbenzene	2.492	2.693	-8.1	0#	0.00
59 TMP Bromobenzene	0.689	0.728	-5.7	0#	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.114	-7.8	0#	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.587	-1.9	0#	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.435#	-1.9	0#	0.00
63 TMP 2-Chlorotoluene	1.486	1.609	-8.3	0#	0.00
64 TMP 4-Chlorotoluene	1.755	1.920	-9.4	0#	0.00
65 TMP tert-Butylbenzene	1.793	1.975	-10.2	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.171	-6.9	0#	0.00
67 TMP sec-Butylbenzene	2.486	2.774	-11.6	0#	0.00
68 TMP p-Isopropyltoluene	2.169	2.438	-12.4	0#	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.429	-11.0	0#	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.417	-8.7	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.376	-11.6	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.113	2.6	0#	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	0.982	-6.5	0#	0.00
74 TMP Hexachlorobutadiene	0.469	0.572	-22.0#	0#	0.00
75 TMP Naphthalene	2.177	2.141	1.7	0#	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	0.925	-7.7	0#	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080227.D  
 Acq On : 02 Aug 2023 07:35 pm  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:51 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	237817	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	190012	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	112030	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	69670	10.635	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	106.40%	
30) 1,2-Dichloroethane-d4	4.35	102	14878	10.034	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	100.30%	
35) Toluene-d8	5.97	98	230040	10.296	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	103.00%	
57) 4-Bromofluorobenzene	8.37	95	81972	10.109	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	101.10%	
Target Compounds						
2) Ethanol	1.95	45	775	No Calib	#	Qvalue
4) Dichlorodifluoromethane	1.08	85	99174	5.157	ppb	96
5) Chloromethane	1.21	50	89982	5.039	ppb	99
6] Vinyl chloride	1.28	62	74382	5.304	ppb	98
7) Bromomethane	1.52	94	56663	5.322	ppb	93
8] Chloroethane	1.59	64	36476	5.156	ppb	99
9) Trichlorofluoromethane	1.78	101	107601	4.930	ppb	91
10) 2-Propanol	2.39	45	2506	No Calib		
11) Acetone	2.25	58	31653	24.931	ppb	86
12] 1,1-Dichloroethene	2.19	96	45319	5.171	ppb	99
13) Hexane	3.05	57	38453	4.930	ppb	94
14) Methylene chloride	2.60	84	32637	5.063	ppb	98
15) t-Butyl alcohol (TBA)	2.72	59	12732	21.667	ppb	90
16] Methyl t-butyl ether (...)	2.83	73	73647	5.058	ppb	100
17] trans-1,2-Dichloroethene	2.82	96	33380	5.291	ppb	99
18) Diisopropyl ether (DIPE)	3.24	45	79996	5.045	ppb	97
19] 1,1-Dichloroethane	3.18	63	46991	4.977	ppb	99
20) Ethyl t-butyl ether (E...)	3.54	87	32070	4.657	ppb	92
21) 2,2-Dichloropropane	3.66	77	32494	5.431	ppb	94
22] cis-1,2-Dichloroethene	3.66	96	35583	4.905	ppb	99
23) Chloroform	3.94	83	51381	4.982	ppb	88
24) 2-Butanone (MEK)	3.69	43	84528	24.033	ppb	100
25) t-Amyl methyl ether (T...)	4.49	73	67602	4.973	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	35574	5.213	ppb	99
27] 1,1,1-Trichloroethane	4.07	97	49222	4.937	ppb	100
28) 1,1-Dichloropropene	4.21	75	37657	4.754	ppb	97
29) Carbon tetrachloride	4.21	117	43011	4.690	ppb	94
31] Benzene	4.39	78	110385	5.207	ppb	100
32] Trichloroethene	4.92	95	35991	5.111	ppb	99
33) 1,2-Dichloropropane	5.12	63	24422	4.633	ppb	98
34) Bromodichloromethane	5.37	83	34032	4.769	ppb	94
36) Dibromomethane	5.22	93	18684	4.764	ppb	95

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080227.D  
 Acq On : 02 Aug 2023 07:35 pm  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCM511

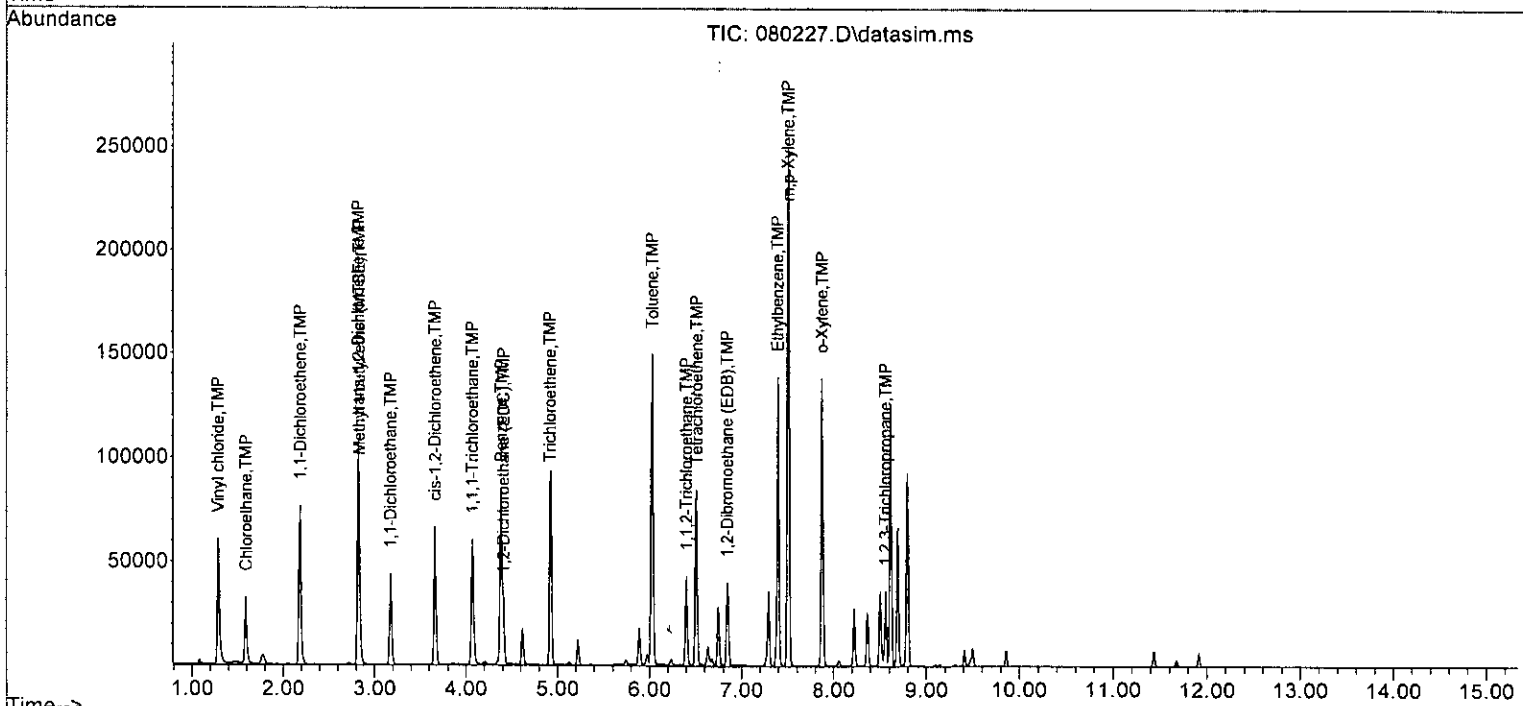
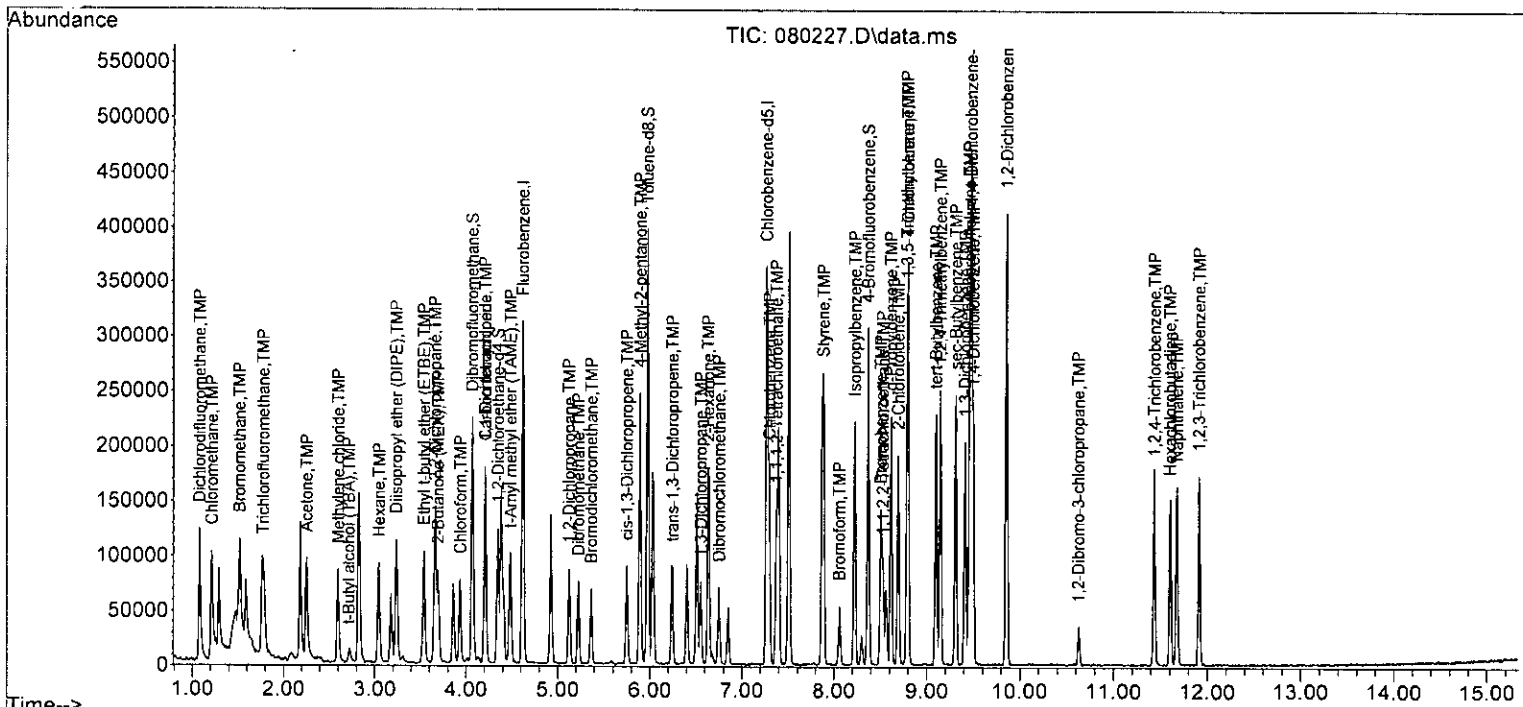
Quant Time: Aug 03 09:53:51 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	24899	23.300	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	39622	4.720	ppb	94
40] Toluene	6.03	92	76280	5.084	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	35738	4.827	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	21690	4.755	ppb	100
43) 2-Hexanone	6.63	43	105845	23.963	ppb	95
44) 1,3-Dichloropropane	6.55	76	36038	4.742	ppb	98
45] Tetrachloroethene	6.51	164	33317	5.082	ppb	99
46) Dibromochloromethane	6.75	129	31271	4.791	ppb	96
47] 1,2-Dibromoethane (EDB)	6.84	107	29347	4.974	ppb	100
48) Chlorobenzene	7.30	112	91738	4.941	ppb	98
49] Ethylbenzene	7.39	91	137641	5.126	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	32471	4.989	ppb	93
51] m,p-Xylene	7.50	106	114493	10.061	ppb	100
52] o-Xylene	7.88	106	56709	4.986	ppb	99
53) Styrene	7.89	104	88782	4.845	ppb	98
54) Isopropylbenzene	8.23	105	135439	4.913	ppb	100
55) Bromoform	8.06	173	22281	4.690	ppb	93
58) n-Propylbenzene	8.61	91	150836	4.713	ppb	99
59) Bromobenzene	8.50	156	40805	4.645	ppb	95
60) 1,3,5-Trimethylbenzene	8.79	105	118388	4.842	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	32869	4.699	ppb	92
62] 1,2,3-Trichloropropane	8.56	75	24368	4.810	ppb	98
63) 2-Chlorotoluene	8.69	91	90108	4.900	ppb	98
64) 4-Chlorotoluene	8.80	91	107554	4.868	ppb	99
65) tert-Butylbenzene	9.10	119	110618	4.858	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	121589	4.750	ppb	97
67) sec-Butylbenzene	9.31	105	155377	4.735	ppb	97
68) p-Isopropyltoluene	9.46	119	136583	4.750	ppb	96
69) 1,3-Dichlorobenzene	9.41	146	80059	4.828	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	79369	4.819	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	77058	4.860	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.63	75	6345	4.703	ppb	88
73) 1,2,4-Trichlorobenzene	11.44	180	54999	4.622	ppb	96
74) Hexachlorobutadiene	11.60	225	32054	4.984	ppb	93
75) Naphthalene	11.68	128	119956	4.528	ppb	98
76) 1,2,3-Trichlorobenzene	11.91	180	51810	4.704	ppb	99

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080227.D  
 Acq On : 02 Aug 2023 07:35 pm  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:51 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080228.D  
 Acq On : 02 Aug 2023 07:58 pm  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:53 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.961	0.4	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.263	-2.6	100	0.00
5 TMP Chloromethane	10.000	9.917	0.8	100	0.00
6 TMP Vinyl chloride	10.000	10.731	-7.3	100	0.00
7 TMP Bromomethane	10.000	10.270	-2.7	100	0.00
8 TMP Chloroethane	10.000	10.308	-3.1	100	0.00
9 TMP Trichlorofluoromethane	10.000	9.728	2.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	100	0.00
11 TMP Acetone	50.000	48.834	2.3	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.443	-4.4	100	0.00
13 TMP Hexane	10.000	9.453	5.5	100	0.00
14 TMP Methylene chloride	10.000	9.874	1.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	49.838	0.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.122	-1.2	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.598	-6.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.821	1.8	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.197	-2.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.860	1.4	100	0.00
21 TMP 2,2-Dichloropropane	10.000	10.901	-9.0	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.104	-1.0	100	0.00
23 TMP Chloroform	10.000	9.683	3.2	100	0.00
24 TMP 2-Butanone (MEK)	50.000	50.997	-2.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.860	1.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.576	-5.8	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.025	-0.3	100	0.00
28 TMP 1,1-Dichloropropene	10.000	9.331	6.7	100	0.00
29 TMP Carbon tetrachloride	10.000	9.709	2.9	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.676	3.2	100	0.00
31 TMP Benzene	10.000	10.590	-5.9	100	0.00
32 TMP Trichloroethene	10.000	10.405	-4.0	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.825	1.8	100	0.00
34 TMP Bromodichloromethane	10.000	10.158	-1.6	100	0.00
35 S Toluene-d8	10.000	9.908	0.9	100	0.00
36 TMP Dibromomethane	10.000	9.773	2.3	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	49.045	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.769	2.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.353	-3.5	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.566	4.3	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.767	2.3	100	0.00
43 TMP 2-Hexanone	50.000	51.213	-2.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080228.D  
 Acq On : 02 Aug 2023 07:58 pm  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:53 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.781	2.2	100	0.00
45 TMP Tetrachloroethene	10.000	10.447	-4.5	100	0.00
46 TMP Dibromochloromethane	10.000	9.911	0.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.394	-3.9	100	0.00
48 TMP Chlorobenzene	10.000	9.970	0.3	100	0.00
49 TMP Ethylbenzene	10.000	10.500	-5.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.994	0.1	100	0.00
51 TMP m,p-Xylene	20.000	20.579	-2.9	100	0.00
52 TMP o-Xylene	10.000	10.271	-2.7	100	0.00
53 TMP Styrene	10.000	9.777	2.2	100	0.00
54 TMP Isopropylbenzene	10.000	10.039	-0.4	100	0.00
55 TMP Bromoform	10.000	9.340	6.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.679	3.2	100	0.00
58 TMP n-Propylbenzene	10.000	9.553	4.5	100	0.00
59 TMP Bromobenzene	10.000	9.826	1.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.890	1.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.998	0.0	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.005	-0.1	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.852	1.5	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.713	2.9	100	0.00
65 TMP tert-Butylbenzene	10.000	9.887	1.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.659	3.4	100	0.00
67 TMP sec-Butylbenzene	10.000	9.757	2.4	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.754	2.5	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.856	1.4	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.983	0.2	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.853	1.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.438	5.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.499	5.0	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.630	3.7	100	0.00
75 TMP Naphthalene	10.000	9.668	3.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.593	4.1	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080228.D  
 Acq On : 02 Aug 2023 07:58 pm  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:53 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.00
3 S	Dibromofluoromethane	0.269	0.274	-1.9	100	0.00
4 TMP	Dichlorodifluoromethane	0.697	0.830	-19.1	100	0.00
5 TMP	Chloromethane	0.636	0.745	-17.1	100	0.00
6 TMP	Vinyl chloride	0.524	0.633	-20.8#	100	0.00
7 TMP	Bromomethane	0.407	0.460	-13.0	100	0.00
8 TMP	Chloroethane	0.266	0.307	-15.4	100	0.00
9 TMP	Trichlorofluoromethane	0.776	0.893	-15.1	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	100	0.00
11 TMP	Acetone	0.047	0.052	-10.6	100	0.00
12 TMP	1,1-Dichloroethene	0.351	0.385	-9.7	100	0.00
13 TMP	Hexane	0.281	0.310	-10.3	100	0.00
14 TMP	Methylene chloride	0.232	0.255	-9.9	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.026	0.025#	3.8	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.559	0.620	-10.9	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.255	0.281	-10.2	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.591	0.655	-10.8	100	0.00
19 TMP	1,1-Dichloroethane	0.348	0.405	-16.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.257	0.286	-11.3	100	0.00
21 TMP	2,2-Dichloropropane	0.247	0.270	-9.3	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.269	0.308	-14.5	100	0.00
23 TMP	Chloroform	0.384	0.420	-9.4	100	0.00
24 TMP	2-Butanone (MEK)	0.131	0.151	-15.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.541	0.564	-4.3	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.316	0.303	4.1	100	0.00
27 TMP	1,1,1-Trichloroethane	0.359	0.420	-17.0	100	0.00
28 TMP	1,1-Dichloropropene	0.286	0.311	-8.7	100	0.00
29 TMP	Carbon tetrachloride	0.317	0.374	-18.0	100	0.00
30 S	1,2-Dichloroethane-d4	0.063	0.060	4.8	100	0.00
31 TMP	Benzene	0.840	0.943	-12.3	100	0.00
32 TMP	Trichloroethene	0.274	0.308	-12.4	100	0.00
33 TMP	1,2-Dichloropropane	0.192	0.218	-13.5	100	0.00
34 TMP	Bromodichloromethane	0.265	0.305	-15.1	100	0.00
35 S	Toluene-d8	0.932	0.931	0.1	100	0.00
36 TMP	Dibromomethane	0.149	0.161	-8.1	100	0.00
37 TMP	4-Methyl-2-pentanone	0.042	0.044	-4.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.310	0.345	-11.3	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.774	0.816	-5.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.354	0.373	-5.4	100	0.00
42 TMP	1,1,2-Trichloroethane	0.216	0.234	-8.3	100	0.00
43 TMP	2-Hexanone	0.210	0.238	-13.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080228.D  
 Acq On : 02 Aug 2023 07:58 pm  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:53 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.391	-8.3	100	0.00
45 TMP Tetrachloroethene	0.329	0.360	-9.4	100	0.00
46 TMP Dibromochloromethane	0.305	0.340	-11.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.322	-2.5	100	0.00
48 TMP Chlorobenzene	0.846	0.974	-15.1	100	0.00
49 TMP Ethylbenzene	1.339	1.482	-10.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.342	-15.5	100	0.00
51 TMP m,p-Xylene	0.560	0.616	-10.0	100	0.00
52 TMP o-Xylene	0.553	0.614	-11.0	100	0.00
53 TMP Styrene	0.814	0.943	-15.8	100	0.00
54 TMP Isopropylbenzene	1.267	1.456	-14.9	100	0.00
55 TMP Bromoform	0.232	0.234	-0.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.749	0.701	6.4	100	0.00
58 TMP n-Propylbenzene	2.492	2.729	-9.5	100	0.00
59 TMP Bromobenzene	0.689	0.770	-11.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.158	-10.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.624	-8.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.452#	-5.9	100	0.00
63 TMP 2-Chlorotoluene	1.486	1.617	-8.8	100	0.00
64 TMP 4-Chlorotoluene	1.755	1.916	-9.2	100	0.00
65 TMP tert-Butylbenzene	1.793	2.009	-12.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.207	-8.7	100	0.00
67 TMP sec-Butylbenzene	2.486	2.858	-15.0	100	0.00
68 TMP p-Isopropyltoluene	2.169	2.503	-15.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.459	-13.4	100	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.468	-12.7	100	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.394	-13.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.114	1.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.009	-9.4	100	0.00
74 TMP Hexachlorobutadiene	0.469	0.553	-17.9	100	0.00
75 TMP Naphthalene	2.177	2.286	-5.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	0.943	-9.8	100	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080228.D  
 Acq On : 02 Aug 2023 07:58 pm  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Aug 03 09:53:53 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	243405	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	194160	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	115138	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	66786	9.961	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	99.60%		
30) 1,2-Dichloroethane-d4	4.35	102	14684	9.676	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery =	96.80%		
35) Toluene-d8	5.97	98	226567	9.908	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery =	99.10%		
57) 4-Bromofluorobenzene	8.37	95	80657	9.679	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery =	96.80%		
Target Compounds						
						Qvalue
2) Ethanol	1.95	45	245	No Calib		
4) Dichlorodifluoromethane	1.08	85	202002	10.263	ppb	100
5) Chloromethane	1.21	50	181264	9.917	ppb	100
6] Vinyl chloride	1.28	62	154015	10.731	ppb	100
7) Bromomethane	1.52	94	111901	10.270	ppb	100
8] Chloroethane	1.59	64	74633	10.308	ppb	100
9) Trichlorofluoromethane	1.77	101	217302	9.728	ppb	100
10) 2-Propanol	2.38	45	2007	No Calib		
11) Acetone	2.25	58	63458	48.834	ppb	100
12] 1,1-Dichloroethene	2.18	96	93624	10.443	ppb	100
13) Hexane	3.04	57	75457	9.453	ppb	100
14) Methylene chloride	2.60	84	62133	9.874	ppb	100
15) t-Butyl alcohol (TBA)	2.72	59	29974	49.838	ppb	100
16] Methyl t-butyl ether (...)	2.83	73	150854	10.122	ppb	100
17] trans-1,2-Dichloroethene	2.82	96	68358	10.598	ppb	100
18) Diisopropyl ether (DIPE)	3.24	45	159396	9.821	ppb	100
19] 1,1-Dichloroethane	3.17	63	98547	10.197	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	69493	9.860	ppb	100
21) 2,2-Dichloropropane	3.66	77	65734	10.901	ppb	100
22] cis-1,2-Dichloroethene	3.66	96	75021	10.104	ppb	100
23) Chloroform	3.93	83	102214	9.683	ppb	100
24) 2-Butanone (MEK)	3.69	43	183583	50.997	ppb	100
25) t-Amyl methyl ether (T...)	4.48	73	137193	9.860	ppb	100
26] 1,2-Dichloroethane (EDC)	4.41	62	73648	10.576	ppb	100
27] 1,1,1-Trichloroethane	4.07	97	102293	10.025	ppb	100
28) 1,1-Dichloropropene	4.21	75	75648	9.331	ppb	100
29) Carbon tetrachloride	4.21	117	91144	9.709	ppb	100
31] Benzene	4.39	78	229554	10.590	ppb	100
32] Trichloroethene	4.92	95	74942	10.405	ppb	100
33) 1,2-Dichloropropane	5.12	63	53008	9.825	ppb	100
34) Bromodichloromethane	5.37	83	74202	10.158	ppb	100
36) Dibromomethane	5.22	93	39226	9.773	ppb	100

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080228.D  
 Acq On : 02 Aug 2023 07:58 pm  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

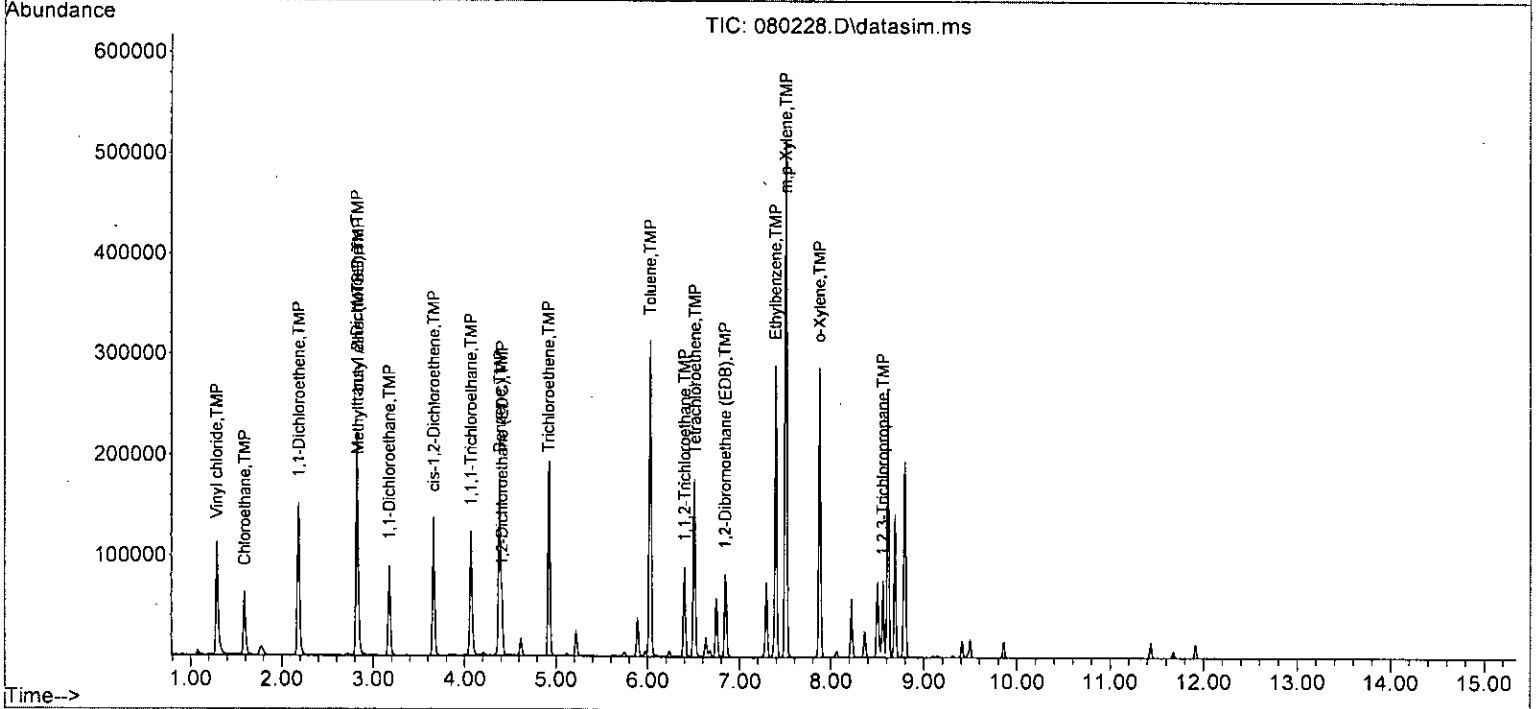
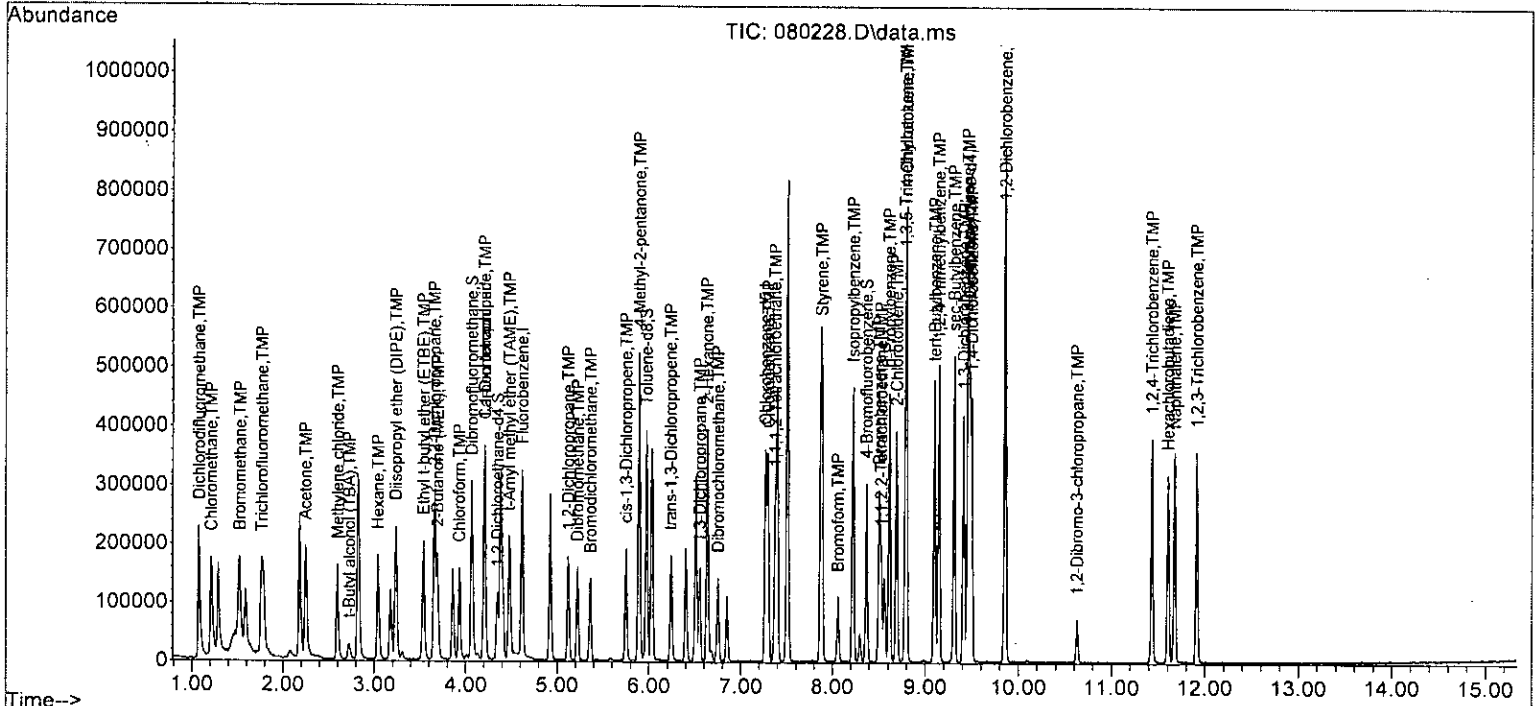
Quant Time: Aug 03 09:53:53 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	53642	49.045	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	83926	9.769	ppb	100
40] Toluene	6.03	92	158442	10.353	ppb	100
41) trans-1,3-Dichloropropene	6.24	75	72372	9.566	ppb	100
42] 1,1,2-Trichloroethane	6.40	83	45522	9.767	ppb	100
43) 2-Hexanone	6.63	43	231147	51.213	ppb	100
44) 1,3-Dichloropropane	6.55	76	75964	9.781	ppb	100
45] Tetrachloroethene	6.51	164	69865	10.447	ppb	100
46) Dibromochloromethane	6.75	129	66107	9.911	ppb	100
47] 1,2-Dibromoethane (EDB)	6.84	107	62607	10.394	ppb	100
48) Chlorobenzene	7.30	112	189139	9.970	ppb	100
49] Ethylbenzene	7.39	91	287786	10.500	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	66460	9.994	ppb	100
51] m,p-Xylene	7.50	106	239107	20.579	ppb	100
52] o-Xylene	7.87	106	119280	10.271	ppb	100
53) Styrene	7.89	104	183053	9.777	ppb	100
54) Isopropylbenzene	8.23	105	282786	10.039	ppb	100
55) Bromoform	8.06	173	45338	9.340	ppb	100
58) n-Propylbenzene	8.61	91	314247	9.553	ppb	100
59) Bromobenzene	8.50	156	88711	9.826	ppb	100
60) 1,3,5-Trimethylbenzene	8.79	105	248510	9.890	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	71871	9.998	ppb	100
62] 1,2,3-Trichloropropane	8.56	75	52098	10.005	ppb	100
63) 2-Chlorotoluene	8.69	91	186208	9.852	ppb	100
64) 4-Chlorotoluene	8.80	91	220547	9.713	ppb	100
65) tert-Butylbenzene	9.10	119	231357	9.887	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	254135	9.659	ppb	100
67) sec-Butylbenzene	9.31	105	329022	9.757	ppb	100
68) p-Isopropyltoluene	9.46	119	288230	9.754	ppb	100
69) 1,3-Dichlorobenzene	9.41	146	167971	9.856	ppb	100
70) 1,4-Dichlorobenzene	9.50	146	168972	9.983	ppb	100
71) 1,2-Dichlorobenzene	9.86	146	160554	9.853	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.63	75	13087	9.438	ppb	100
73) 1,2,4-Trichlorobenzene	11.43	180	116172	9.499	ppb	100
74) Hexachlorobutadiene	11.60	225	63656	9.630	ppb	100
75) Naphthalene	11.68	128	263229	9.668	ppb	100
76) 1,2,3-Trichlorobenzene	11.91	180	108577	9.593	ppb	100

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
Data File : 080228.D  
Acq On : 02 Aug 2023 07:58 pm  
Operator : LM  
Sample : 10 ppb 8260 ICAL 69-198n  
Misc : soil/water  
ALS Vial : 18 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Aug 03 09:53:53 2023  
Quant Method : D:\Methods\Inst11\080223vms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Aug 03 09:44:33 2023  
Response via : Initial Calibration  
DataAcq Meth:VM042423.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080229.D  
 Acq On : 02 Aug 2023 08:20 pm  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:55 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	93	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.04
3 S Dibromofluoromethane	10.000	10.252	-2.5	98	0.00
4 TMP Dichlorodifluoromethane	20.000	20.738	-3.7	103	0.02
5 TMP Chloromethane	20.000	20.048	-0.2	102	0.02
6 TMP Vinyl chloride	20.000	21.227	-6.1	99	0.02
7 TMP Bromomethane	20.000	20.668	-3.3	105	0.00
8 TMP Chloroethane	20.000	20.075	-0.4	100	0.02
9 TMP Trichlorofluoromethane	20.000	19.485	2.6	100	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	100.000	101.576	-1.6	107	0.02
12 TMP 1,1-Dichloroethene	20.000	20.685	-3.4	102	0.00
13 TMP Hexane	20.000	18.754	6.2	104	0.02
14 TMP Methylene chloride	20.000	20.080	-0.4	97	0.00
15 TMP t-Butyl alcohol (TBA)	100.000	98.154	1.8	90	0.00
16 TMP Methyl t-butyl ether (MTBE)	20.000	20.259	-1.3	96	0.00
17 TMP trans-1,2-Dichloroethene	20.000	20.938	-4.7	101	0.00
18 TMP Diisopropyl ether (DIPE)	20.000	19.381	3.1	91	0.00
19 TMP 1,1-Dichloroethane	20.000	20.017	-0.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	20.000	19.467	2.7	94	0.00
21 TMP 2,2-Dichloropropane	20.000	21.282	-6.4	98	0.00
22 TMP cis-1,2-Dichloroethene	20.000	19.480	2.6	99	0.00
23 TMP Chloroform	20.000	19.294	3.5	98	0.00
24 TMP 2-Butanone (MEK)	100.000	92.009	8.0	103	0.00
25 TMP t-Amyl methyl ether (TAME)	20.000	20.040	-0.2	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	20.000	20.905	-4.5	100	0.00
27 TMP 1,1,1-Trichloroethane	20.000	19.842	0.8	101	0.00
28 TMP 1,1-Dichloropropene	20.000	19.241	3.8	102	0.00
29 TMP Carbon tetrachloride	20.000	19.543	2.3	105	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.780	-7.8	101	0.00
31 TMP Benzene	20.000	20.961	-4.8	100	0.00
32 TMP Trichloroethene	20.000	20.512	-2.6	101	0.00
33 TMP 1,2-Dichloropropane	20.000	19.236	3.8	100	0.00
34 TMP Bromodichloromethane	20.000	20.141	-0.7	101	0.00
35 S Toluene-d8	10.000	10.167	-1.7	97	0.00
36 TMP Dibromomethane	20.000	20.128	-0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	100.000	104.913	-4.9	98	0.00
38 TMP cis-1,3-Dichloropropene	20.000	19.373	3.1	97	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	95	0.00
40 TMP Toluene	20.000	20.536	-2.7	101	0.00
41 TMP trans-1,3-Dichloropropene	20.000	19.684	1.6	100	0.01
42 TMP 1,1,2-Trichloroethane	20.000	19.225	3.9	99	0.00
43 TMP 2-Hexanone	100.000	101.132	-1.1	104	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080229.D  
 Acq On : 02 Aug 2023 08:20 pm  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:55 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.334	3.3	99	0.00
45 TMP Tetrachloroethene	20.000	20.389	-1.9	103	0.00
46 TMP Dibromochloromethane	20.000	20.029	-0.1	101	0.00
47 TMP 1,2-Dibromoethane (EDB)	20.000	20.613	-3.1	101	0.01
48 TMP Chlorobenzene	20.000	19.498	2.5	102	0.00
49 TMP Ethylbenzene	20.000	20.725	-3.6	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	20.370	-1.9	104	0.00
51 TMP m,p-Xylene	40.000	40.687	-1.7	102	0.00
52 TMP o-Xylene	20.000	20.359	-1.8	102	0.00
53 TMP Styrene	20.000	19.677	1.6	102	0.00
54 TMP Isopropylbenzene	20.000	20.087	-0.4	102	0.00
55 TMP Bromoform	20.000	20.067	-0.3	102	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	10.000	9.646	3.5	91	0.00
58 TMP n-Propylbenzene	20.000	19.552	2.2	103	0.00
59 TMP Bromobenzene	20.000	18.994	5.0	101	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	20.063	-0.3	102	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	20.151	-0.8	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	20.100	-0.5	98	0.00
63 TMP 2-Chlorotoluene	20.000	19.711	1.4	102	0.00
64 TMP 4-Chlorotoluene	20.000	18.886	5.6	100	0.00
65 TMP tert-Butylbenzene	20.000	19.729	1.4	101	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	19.688	1.6	100	0.00
67 TMP sec-Butylbenzene	20.000	19.752	1.2	104	0.00
68 TMP p-Isopropyltoluene	20.000	20.081	-0.4	106	0.00
69 TMP 1,3-Dichlorobenzene	20.000	19.231	3.8	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	19.854	0.7	104	0.00
71 TMP 1,2-Dichlorobenzene	20.000	19.861	0.7	105	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	19.994	0.0	99	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	19.401	3.0	104	0.00
74 TMP Hexachlorobutadiene	20.000	20.191	-1.0	118	0.00
75 TMP Naphthalene	20.000	20.463	-2.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	19.408	3.0	106	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080229.D  
 Acq On : 02 Aug 2023 08:20 pm  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:55 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	93	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.04
3 S	Dibromofluoromethane	0.269	0.282	-4.8	98	0.00
4 TMP	Dichlorodifluoromethane	0.697	0.838	-20.2#	103	0.02
5 TMP	Chloromethane	0.636	0.753	-18.4	102	0.02
6 TMP	Vinyl chloride	0.524	0.626	-19.5	99	0.02
7 TMP	Bromomethane	0.407	0.463	-13.8	105	0.00
8 TMP	Chloroethane	0.266	0.299	-12.4	100	0.02
9 TMP	Trichlorofluoromethane	0.776	0.894	-15.2	100	0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.047	0.054	-14.9	107	0.02
12 TMP	1,1-Dichloroethene	0.351	0.381	-8.5	102	0.00
13 TMP	Hexane	0.281	0.308	-9.6	104	0.02
14 TMP	Methylene chloride	0.232	0.253	-9.1	97	0.00
15 TMP	t-Butyl alcohol (TBA)	0.026	0.024#	7.7	90	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.559	0.620	-10.9	96	0.00
17 TMP	trans-1,2-Dichloroethene	0.255	0.277	-8.6	101	0.00
18 TMP	Diisopropyl ether (DIPE)	0.591	0.646	-9.3	91	0.00
19 TMP	1,1-Dichloroethane	0.348	0.397	-14.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.257	0.282	-9.7	94	0.00
21 TMP	2,2-Dichloropropane	0.247	0.262	-6.1	98	0.00
22 TMP	cis-1,2-Dichloroethene	0.269	0.297	-10.4	99	0.00
23 TMP	Chloroform	0.384	0.418	-8.9	98	0.00
24 TMP	2-Butanone (MEK)	0.131	0.136	-3.8	103	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.541	0.573	-5.9	96	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.316	0.299	5.4	100	0.00
27 TMP	1,1,1-Trichloroethane	0.359	0.416	-15.9	101	0.00
28 TMP	1,1-Dichloropropene	0.286	0.320	-11.9	102	0.00
29 TMP	Carbon tetrachloride	0.317	0.377	-18.9	105	0.00
30 S	1,2-Dichloroethane-d4	0.063	0.067	-6.3	101	0.00
31 TMP	Benzene	0.840	0.933	-11.1	100	0.00
32 TMP	Trichloroethene	0.274	0.303	-10.6	101	0.00
33 TMP	1,2-Dichloropropane	0.192	0.213	-10.9	100	0.00
34 TMP	Bromodichloromethane	0.265	0.302	-14.0	101	0.00
35 S	Toluene-d8	0.932	0.955	-2.5	97	0.00
36 TMP	Dibromomethane	0.149	0.166	-11.4	100	0.00
37 TMP	4-Methyl-2-pentanone	0.042	0.047	-11.9	98	0.00
38 TMP	cis-1,3-Dichloropropene	0.310	0.342	-10.3	97	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
40 TMP	Toluene	0.774	0.809	-4.5	101	0.00
41 TMP	trans-1,3-Dichloropropene	0.354	0.384	-8.5	100	0.01
42 TMP	1,1,2-Trichloroethane	0.216	0.231	-6.9	99	0.00
43 TMP	2-Hexanone	0.210	0.235	-11.9	104	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080229.D  
 Acq On : 02 Aug 2023 08:20 pm  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:55 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.387	-7.2	99	0.00
45 TMP Tetrachloroethene	0.329	0.351	-6.7	103	0.00
46 TMP Dibromochloromethane	0.305	0.344	-12.8	101	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.320	-1.9	101	0.01
48 TMP Chlorobenzene	0.846	0.953	-12.6	102	0.00
49 TMP Ethylbenzene	1.339	1.462	-9.2	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.349	-17.9	104	0.00
51 TMP m,p-Xylene	0.560	0.608	-8.6	102	0.00
52 TMP o-Xylene	0.553	0.609	-10.1	102	0.00
53 TMP Styrene	0.814	0.949	-16.6	102	0.00
54 TMP Isopropylbenzene	1.267	1.457	-15.0	102	0.00
55 TMP Bromoform	0.232	0.251	-8.2	102	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	0.749	0.698	6.8	91	0.00
58 TMP n-Propylbenzene	2.492	2.793	-12.1	103	0.00
59 TMP Bromobenzene	0.689	0.745	-8.1	101	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.189	-11.6	102	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.629	-9.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.454#	-6.3	98	0.00
63 TMP 2-Chlorotoluene	1.486	1.618	-8.9	102	0.00
64 TMP 4-Chlorotoluene	1.755	1.862	-6.1	100	0.00
65 TMP tert-Butylbenzene	1.793	2.005	-11.8	101	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.249	-10.8	100	0.00
67 TMP sec-Butylbenzene	2.486	2.893	-16.4	104	0.00
68 TMP p-Isopropyltoluene	2.169	2.577	-18.8	106	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.423	-10.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.459	-12.0	104	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.405	-13.9	105	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.120	-3.4	99	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.030	-11.7	104	0.00
74 TMP Hexachlorobutadiene	0.469	0.580	-23.7#	118	0.00
75 TMP Naphthalene	2.177	2.419	-11.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	0.954	-11.1	106	0.00

(#) = Out of Range

5PCC's out = 3 CCC's out = 0



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080229.D  
 Acq On : 02 Aug 2023 08:20 pm  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Aug 03 09:53:55 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	240336	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	194192	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	113999	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	67871	10.252	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	102.50%		
30) 1,2-Dichloroethane-d4	4.35	102	16153	10.780	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery =	107.80%		
35) Toluene-d8	5.97	98	229562	10.167	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery =	101.70%		
57) 4-Bromofluorobenzene	8.37	95	79593	9.646	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery =	96.50%		
Target Compounds						
2) Ethanol	1.99	45	593	No Calib		Qvalue
4) Dichlorodifluoromethane	1.09	85	403024	20.738	ppb	99
5) Chloromethane	1.23	50	361823	20.048	ppb	99
6] Vinyl chloride	1.30	62	300806	21.227	ppb	95
7) Bromomethane	1.53	94	222368	20.668	ppb	87
8] Chloroethane	1.60	64	143513	20.075	ppb	98
9) Trichlorofluoromethane	1.79	101	429762	19.485	ppb	99
10) 2-Propanol	2.39	45	2482	No Calib		
11) Acetone	2.26	58	130331	101.576	ppb	94
12] 1,1-Dichloroethene	2.19	96	183044	20.685	ppb	86
13) Hexane	3.05	57	147816	18.754	ppb	89
14) Methylene chloride	2.61	84	121522	20.080	ppb	97
15) t-Butyl alcohol (TBA)	2.73	59	58288	98.154	ppb	99
16] Methyl t-butyl ether (...)	2.84	73	298110	20.259	ppb	99
17] trans-1,2-Dichloroethene	2.83	96	133278	20.938	ppb	96
18) Diisopropyl ether (DIPE)	3.24	45	310582	19.381	ppb	97
19] 1,1-Dichloroethane	3.18	63	191009	20.017	ppb	99
20) Ethyl t-butyl ether (E...)	3.55	87	135481	19.467	ppb	94
21) 2,2-Dichloropropane	3.67	77	125768	21.282	ppb	95
22] cis-1,2-Dichloroethene	3.67	96	142809	19.480	ppb	99
23) Chloroform	3.94	83	201103	19.294	ppb	98
24) 2-Butanone (MEK)	3.70	43	327043	92.009	ppb	100
25) t-Amyl methyl ether (T...)	4.49	73	275313	20.040	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	143540	20.905	ppb	95
27] 1,1,1-Trichloroethane	4.08	97	199905	19.842	ppb	97
28) 1,1-Dichloropropene	4.22	75	154021	19.241	ppb	98
29) Carbon tetrachloride	4.21	117	181140	19.543	ppb	97
31] Benzene	4.38	78	448427	20.961	ppb	94
32] Trichloroethene	4.93	95	145819	20.512	ppb	89
33) 1,2-Dichloropropane	5.13	63	102471	19.236	ppb	98
34) Bromodichloromethane	5.37	83	145268	20.141	ppb	96
36) Dibromomethane	5.22	93	79769	20.128	ppb	98

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080229.D  
 Acq On : 02 Aug 2023 08:20 pm  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

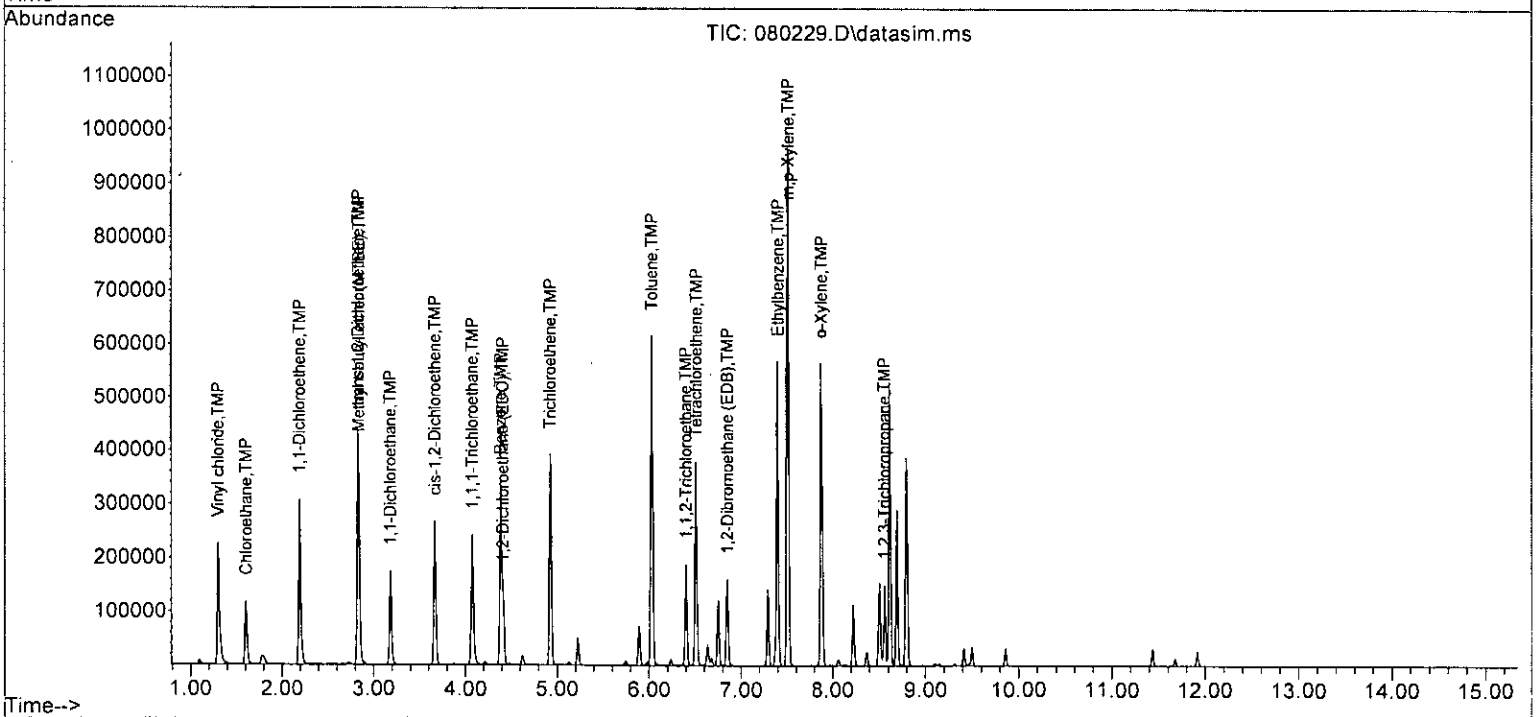
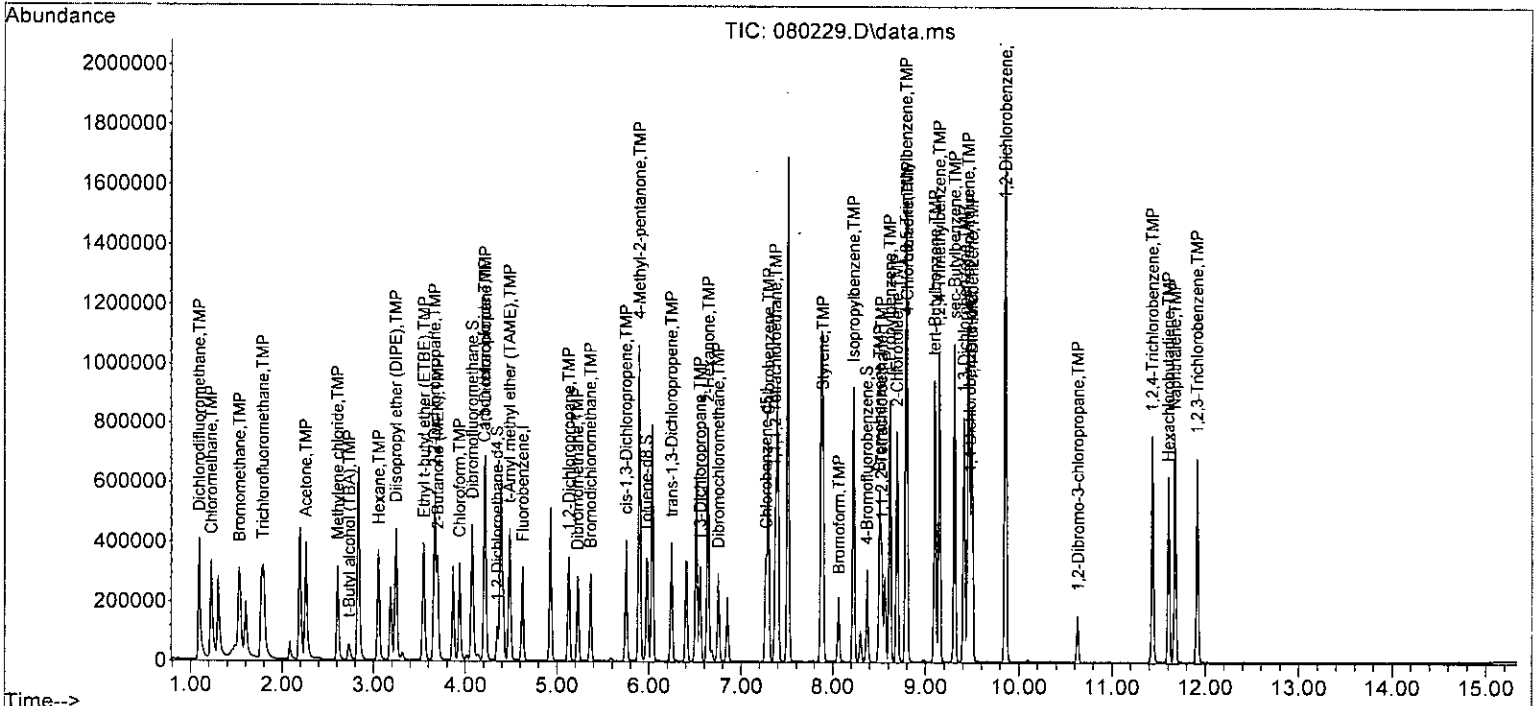
Quant Time: Aug 03 09:53:55 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.89	85	113300	104.913	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	164336	19.373	ppb	96
40] Toluene	6.03	92	314086	20.536	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	148946	19.684	ppb	93
42] 1,1,2-Trichloroethane	6.40	83	89617	19.225	ppb	95
43) 2-Hexanone	6.64	43	456530	101.132	ppb	97
44) 1,3-Dichloropropane	6.55	76	150183	19.334	ppb	99
45] Tetrachloroethene	6.51	164	136268	20.389	ppb	98
46) Dibromochloromethane	6.75	129	133616	20.029	ppb	91
47] 1,2-Dibromoethane (EDB)	6.85	107	124119	20.613	ppb	93
48) Chlorobenzene	7.30	112	369951	19.498	ppb	98
49] Ethylbenzene	7.40	91	567855	20.725	ppb	91
50) 1,1,1,2-Tetrachloroethane	7.38	131	135485	20.370	ppb	99
51] m,p-Xylene	7.51	106	472619	40.687	ppb	83
52] o-Xylene	7.87	106	236417	20.359	ppb	97
53) Styrene	7.90	104	368466	19.677	ppb	91
54) Isopropylbenzene	8.23	105	565896	20.087	ppb	99
55) Bromoform	8.07	173	97426	20.067	ppb	94
58) n-Propylbenzene	8.61	91	636792	19.552	ppb	96
59) Bromobenzene	8.50	156	169788	18.994	ppb	99
60) 1,3,5-Trimethylbenzene	8.79	105	499125	20.063	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	143430	20.151	ppb	98
62] 1,2,3-Trichloropropane	8.56	75	103624	20.100	ppb	98
63) 2-Chlorotoluene	8.69	91	368858	19.711	ppb	98
64) 4-Chlorotoluene	8.80	91	424575	18.886	ppb	91
65) tert-Butylbenzene	9.10	119	457127	19.729	ppb	94
66) 1,2,4-Trimethylbenzene	9.15	105	512868	19.688	ppb	98
67) sec-Butylbenzene	9.31	105	659488	19.752	ppb	100
68) p-Isopropyltoluene	9.46	119	587545	20.081	ppb	96
69) 1,3-Dichlorobenzene	9.41	146	324493	19.231	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	332721	19.854	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	320444	19.861	ppb	96
72) 1,2-Dibromo-3-chloropr...	10.63	75	27449	19.994	ppb	75
73) 1,2,4-Trichlorobenzene	11.43	180	234926	19.401	ppb	99
74) Hexachlorobutadiene	11.61	225	132145	20.191	ppb	91
75) Naphthalene	11.68	128	551634	20.463	ppb	98
76) 1,2,3-Trichlorobenzene	11.91	180	217499	19.408	ppb	98

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080229.D  
 Acq On : 02 Aug 2023 08:20 pm  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 69-1980  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:55 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080230.D  
 Acq On : 02 Aug 2023 08:43 pm  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:57 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	94	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.118	-1.2	95	0.00
4 TMP Dichlorodifluoromethane	50.000	51.949	-3.9	113	0.02
5 TMP Chloromethane	50.000	49.297	1.4	114	0.02
6 TMP Vinyl chloride	50.000	52.604	-5.2	113	0.02
7 TMP Bromomethane	50.000	50.416	-0.8	116	0.00
8 TMP Chloroethane	50.000	49.872	0.3	112	0.02
9 TMP Trichlorofluoromethane	50.000	48.291	3.4	112	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	250.000	248.146	0.7	110	0.02
12 TMP 1,1-Dichloroethene	50.000	51.187	-2.4	112	0.00
13 TMP Hexane	50.000	47.850	4.3	115	0.02
14 TMP Methylene chloride	50.000	50.916	-1.8	110	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	246.595	1.4	88	0.00
16 TMP Methyl t-butyl ether (MTBE)	50.000	50.321	-0.6	108	0.00
17 TMP trans-1,2-Dichloroethene	50.000	51.668	-3.3	113	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	49.146	1.7	110	0.00
19 TMP 1,1-Dichloroethane	50.000	49.069	1.9	112	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	50.092	-0.2	111	0.00
21 TMP 2,2-Dichloropropane	50.000	52.403	-4.8	113	0.00
22 TMP cis-1,2-Dichloroethene	50.000	48.891	2.2	112	0.00
23 TMP Chloroform	50.000	49.418	1.2	112	0.00
24 TMP 2-Butanone (MEK)	250.000	251.472	-0.6	107	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	51.409	-2.8	109	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	51.757	-3.5	110	0.00
27 TMP 1,1,1-Trichloroethane	50.000	49.815	0.4	114	0.00
28 TMP 1,1-Dichloropropene	50.000	48.096	3.8	112	0.00
29 TMP Carbon tetrachloride	50.000	48.418	3.2	114	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.207	-2.1	96	0.00
31 TMP Benzene	50.000	52.074	-4.1	111	0.00
32 TMP Trichloroethene	50.000	51.929	-3.9	111	0.00
33 TMP 1,2-Dichloropropane	50.000	48.817	2.4	111	0.00
34 TMP Bromodichloromethane	50.000	51.057	-2.1	114	0.00
35 S Toluene-d8	10.000	10.261	-2.6	93	0.00
36 TMP Dibromomethane	50.000	50.149	-0.3	109	0.00
37 TMP 4-Methyl-2-pentanone	250.000	258.377	-3.4	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	51.911	-3.8	113	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	95	0.00
40 TMP Toluene	50.000	51.230	-2.5	112	0.00
41 TMP trans-1,3-Dichloropropene	50.000	50.488	-1.0	110	0.01
42 TMP 1,1,2-Trichloroethane	50.000	48.222	3.6	109	0.00
43 TMP 2-Hexanone	250.000	251.140	-0.5	110	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080230.D  
 Acq On : 02 Aug 2023 08:43 pm  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:57 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	47.790	4.4	108	0.00
45 TMP Tetrachloroethene	50.000	50.645	-1.3	116	0.00
46 TMP Dibromochloromethane	50.000	49.730	0.5	108	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	51.372	-2.7	110	0.00
48 TMP Chlorobenzene	50.000	48.625	2.8	113	0.00
49 TMP Ethylbenzene	50.000	51.243	-2.5	113	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	50.705	-1.4	115	0.00
51 TMP m,p-Xylene	100.000	101.755	-1.8	114	0.00
52 TMP o-Xylene	50.000	50.946	-1.9	113	0.00
53 TMP Styrene	50.000	49.295	1.4	113	0.00
54 TMP Isopropylbenzene	50.000	50.257	-0.5	114	0.00
55 TMP Bromoform	50.000	50.339	-0.7	106	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	95	0.00
57 S 4-Bromofluorobenzene	10.000	9.977	0.2	93	0.00
58 TMP n-Propylbenzene	50.000	49.140	1.7	113	0.00
59 TMP Bromobenzene	50.000	49.250	1.5	114	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	51.310	-2.6	114	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	48.799	2.4	108	0.00
62 TMP 1,2,3-Trichloropropane	50.000	50.351	-0.7	104	0.00
63 TMP 2-Chlorotoluene	50.000	50.132	-0.3	112	0.00
64 TMP 4-Chlorotoluene	50.000	49.221	1.6	115	0.00
65 TMP tert-Butylbenzene	50.000	52.395	-4.8	117	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	51.817	-3.6	114	0.00
67 TMP sec-Butylbenzene	50.000	51.390	-2.8	117	0.00
68 TMP p-Isopropyltoluene	50.000	51.571	-3.1	116	0.00
69 TMP 1,3-Dichlorobenzene	50.000	50.034	-0.1	116	0.00
70 TMP 1,4-Dichlorobenzene	50.000	49.708	0.6	115	0.00
71 TMP 1,2-Dichlorobenzene	50.000	50.164	-0.3	114	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	51.492	-3.0	101	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.939	-1.9	119	0.00
74 TMP Hexachlorobutadiene	50.000	51.195	-2.4	130	0.00
75 TMP Naphthalene	50.000	53.571	-7.1	109	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	51.077	-2.2	117	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080230.D  
 Acq On : 02 Aug 2023 08:43 pm  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:57 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	94	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.269	0.279	-3.7	95	0.00
4 TMP	Dichlorodifluoromethane	0.697	0.840	-20.5#	113	0.02
5 TMP	Chloromethane	0.636	0.740	-16.4	114	0.02
6 TMP	Vinyl chloride	0.524	0.620	-18.3	113	0.02
7 TMP	Bromomethane	0.407	0.451	-10.8	116	0.00
8 TMP	Chloroethane	0.266	0.297	-11.7	112	0.02
9 TMP	Trichlorofluoromethane	0.776	0.886	-14.2	112	0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.047	0.053	-12.8	110	0.02
12 TMP	1,1-Dichloroethene	0.351	0.377	-7.4	112	0.00
13 TMP	Hexane	0.281	0.314	-11.7	115	0.02
14 TMP	Methylene chloride	0.232	0.252	-8.6	110	0.00
15 TMP	t-Butyl alcohol (TBA)	0.026	0.024#	7.7	88	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.559	0.616	-10.2	108	0.00
17 TMP	trans-1,2-Dichloroethene	0.255	0.274	-7.5	113	0.00
18 TMP	Diisopropyl ether (DIPE)	0.591	0.655	-10.8	110	0.00
19 TMP	1,1-Dichloroethane	0.348	0.390	-12.1	112	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.257	0.290	-12.8	111	0.00
21 TMP	2,2-Dichloropropane	0.247	0.256	-3.6	113	0.00
22 TMP	cis-1,2-Dichloroethene	0.269	0.298	-10.8	112	0.00
23 TMP	Chloroform	0.384	0.429	-11.7	112	0.00
24 TMP	2-Butanone (MEK)	0.131	0.149	-13.7	107	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.541	0.588	-8.7	109	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.316	0.295	6.6	110	0.00
27 TMP	1,1,1-Trichloroethane	0.359	0.418	-16.4	114	0.00
28 TMP	1,1-Dichloropropene	0.286	0.320	-11.9	112	0.00
29 TMP	Carbon tetrachloride	0.317	0.373	-17.7	114	0.00
30 S	1,2-Dichloroethane-d4	0.063	0.064	-1.6	96	0.00
31 TMP	Benzene	0.840	0.927	-10.4	111	0.00
32 TMP	Trichloroethene	0.274	0.307	-12.0	111	0.00
33 TMP	1,2-Dichloropropane	0.192	0.216	-12.5	111	0.00
34 TMP	Bromodichloromethane	0.265	0.306	-15.5	114	0.00
35 S	Toluene-d8	0.932	0.964	-3.4	93	0.00
36 TMP	Dibromomethane	0.149	0.165	-10.7	109	0.00
37 TMP	4-Methyl-2-pentanone	0.042	0.046	-9.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.310	0.366	-18.1	113	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
40 TMP	Toluene	0.774	0.807	-4.3	112	0.00
41 TMP	trans-1,3-Dichloropropene	0.354	0.393	-11.0	110	0.01
42 TMP	1,1,2-Trichloroethane	0.216	0.232	-7.4	109	0.00
43 TMP	2-Hexanone	0.210	0.234	-11.4	110	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080230.D  
 Acq On : 02 Aug 2023 08:43 pm  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:57 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.382	-5.8	108	0.00
45 TMP Tetrachloroethene	0.329	0.348	-5.8	116	0.00
46 TMP Dibromochloromethane	0.305	0.342	-12.1	108	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.319	-1.6	110	0.00
48 TMP Chlorobenzene	0.846	0.950	-12.3	113	0.00
49 TMP Ethylbenzene	1.339	1.446	-8.0	113	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.347	-17.2	115	0.00
51 TMP m,p-Xylene	0.560	0.609	-8.7	114	0.00
52 TMP o-Xylene	0.553	0.609	-10.1	113	0.00
53 TMP Styrene	0.814	0.951	-16.8	113	0.00
54 TMP Isopropylbenzene	1.267	1.458	-15.1	114	0.00
55 TMP Bromoform	0.232	0.252	-8.6	106	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
57 S 4-Bromofluorobenzene	0.749	0.722	3.6	93	0.00
58 TMP n-Propylbenzene	2.492	2.808	-12.7	113	0.00
59 TMP Bromobenzene	0.689	0.772	-12.0	114	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.240	-14.2	114	0.00
61 TMP 1,1,1,2-Tetrachloroethane	0.576	0.609	-5.7	108	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.455#	-6.6	104	0.00
63 TMP 2-Chlorotoluene	1.486	1.646	-10.8	112	0.00
64 TMP 4-Chlorotoluene	1.755	1.941	-10.6	115	0.00
65 TMP tert-Butylbenzene	1.793	2.130	-18.8	117	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.368	-16.7	114	0.00
67 TMP sec-Butylbenzene	2.486	3.010	-21.1#	117	0.00
68 TMP p-Isopropyltoluene	2.169	2.647	-22.0#	116	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.481	-15.1	116	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.461	-12.1	115	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.420	-15.2	114	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.124	-6.9	101	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.082	-17.4	119	0.00
74 TMP Hexachlorobutadiene	0.469	0.588	-25.4#	130	0.00
75 TMP Naphthalene	2.177	2.534	-16.4	109	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	1.004	-16.9	117	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080230.D  
 Acq On : 02 Aug 2023 08:43 pm  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:57 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	239696	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	195661	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	112061	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	66802	10.118	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	101.20%		
30) 1,2-Dichloroethane-d4	4.35	102	15254	10.207	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery =	102.10%		
35) Toluene-d8	5.97	98	231069	10.261	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery =	102.60%		
57) 4-Bromofluorobenzene	8.37	95	80918	9.977	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery =	99.80%		
Target Compounds						
						Qvalue
2) Ethanol	1.96	45	1681	No Calib	#	
4) Dichlorodifluoromethane	1.09	85	1006884	51.949	ppb	93
5) Chloromethane	1.23	50	887314	49.297	ppb	98
6] Vinyl chloride	1.30	62	743474	52.604	ppb	93
7) Bromomethane	1.53	94	540975	50.416	ppb	90
8] Chloroethane	1.60	64	355578	49.872	ppb	97
9) Trichlorofluoromethane	1.79	101	1062256	48.291	ppb	99
10) 2-Propanol	2.39	45	2184	No Calib		
11) Acetone	2.26	58	317544	248.146	ppb	91
12] 1,1-Dichloroethene	2.19	96	451670	51.187	ppb	89
13) Hexane	3.05	57	376149	47.850	ppb	93
14) Methylene chloride	2.61	84	302521	50.916	ppb	97
15) t-Butyl alcohol (TBA)	2.73	59	146049	246.595	ppb	87
16] Methyl t-butyl ether (...)	2.84	73	738509	50.321	ppb	100
17] trans-1,2-Dichloroethene	2.83	96	327915	51.668	ppb	98
18) Diisopropyl ether (DIPE)	3.24	45	785471	49.146	ppb	97
19] 1,1-Dichloroethane	3.18	63	466996	49.069	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	347682	50.092	ppb	96
21) 2,2-Dichloropropane	3.67	77	307399	52.403	ppb	96
22] cis-1,2-Dichloroethene	3.67	96	357464	48.891	ppb	98
23) Chloroform	3.94	83	513727	49.418	ppb	93
24) 2-Butanone (MEK)	3.70	43	891475	251.472	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	704405	51.409	ppb	99
26] 1,2-Dichloroethane (EDC)	4.41	62	354134	51.757	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	500531	49.815	ppb	97
28) 1,1-Dichloropropene	4.22	75	383969	48.096	ppb	99
29) Carbon tetrachloride	4.21	117	447577	48.418	ppb	100
31] Benzene	4.38	78	1110774	52.074	ppb	94
32] Trichloroethene	4.93	95	368091	51.929	ppb	88
33) 1,2-Dichloropropane	5.13	63	259361	48.817	ppb	98
34) Bromodichloromethane	5.37	83	367265	51.057	ppb	96
36) Dibromomethane	5.22	93	198222	50.149	ppb	92



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080230.D  
 Acq On : 02 Aug 2023 08:43 pm  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

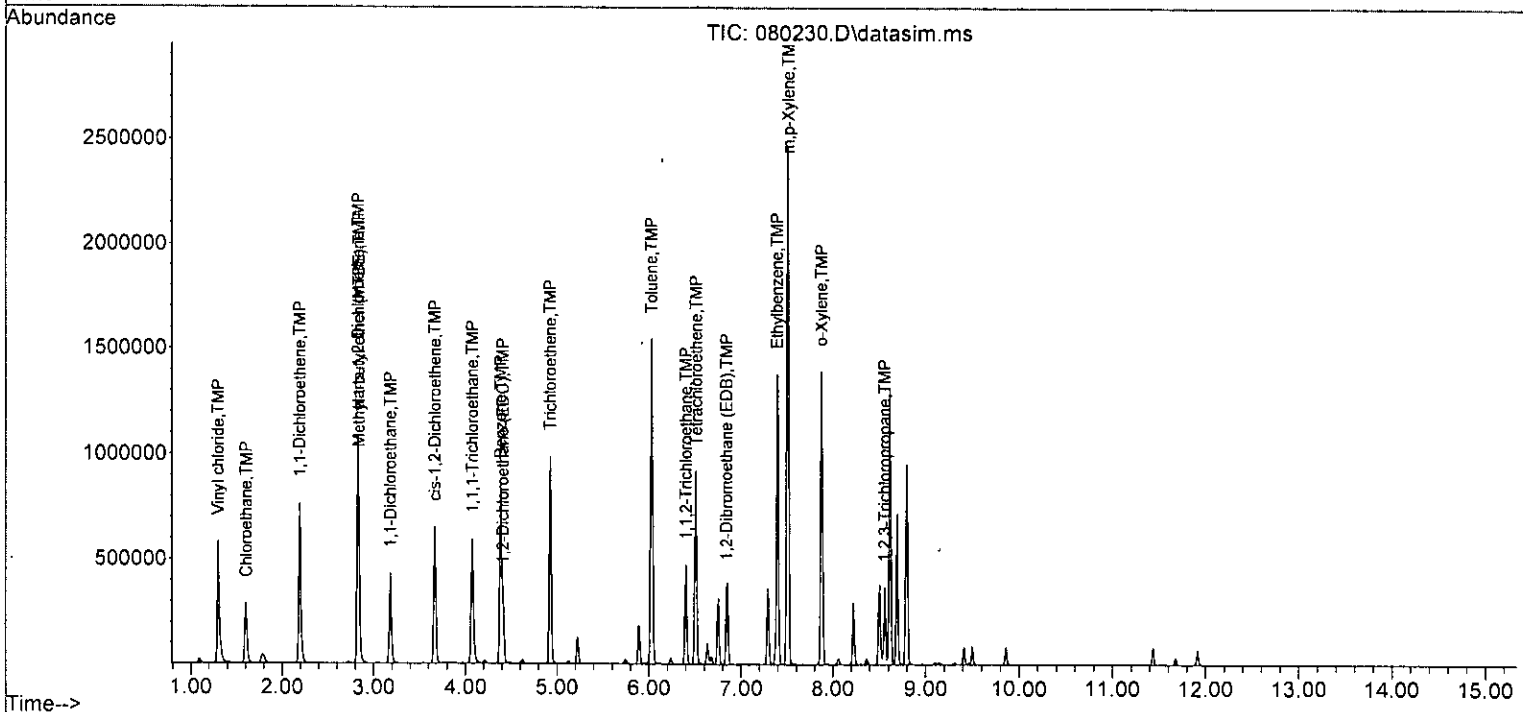
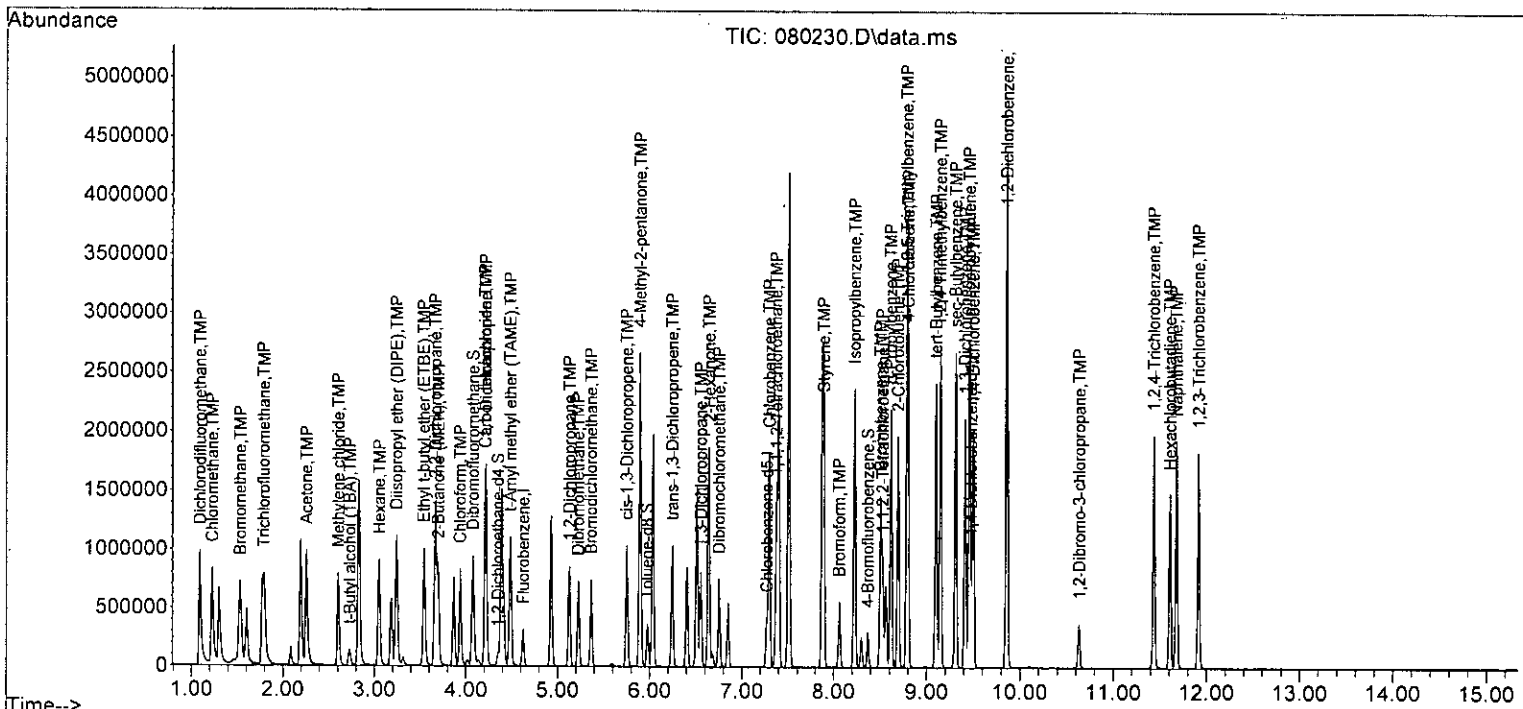
Quant Time: Aug 03 09:53:57 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	278289	258.377	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	439178	51.911	ppb	96
40] Toluene	6.03	92	789085	51.230	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	384937	50.488	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	226492	48.222	ppb	95
43) 2-Hexanone	6.64	43	1142272	251.140	ppb	98
44) 1,3-Dichloropropane	6.55	76	374027	47.790	ppb	98
45] Tetrachloroethene	6.51	164	340867	50.645	ppb	99
46) Dibromochloromethane	6.75	129	334268	49.730	ppb	95
47] 1,2-Dibromoethane (EDB)	6.84	107	311596	51.372	ppb	98
48) Chlorobenzene	7.30	112	929563	48.625	ppb	97
49] Ethylbenzene	7.39	91	1414226	51.243	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	339799	50.705	ppb	99
51] m,p-Xylene	7.51	106	1190637	101.755	ppb	82
52] o-Xylene	7.87	106	595964	50.946	ppb	99
53) Styrene	7.90	104	930070	49.295	ppb	94
54) Isopropylbenzene	8.23	105	1426604	50.257	ppb	96
55) Bromoform	8.06	173	246251	50.339	ppb	97
58) n-Propylbenzene	8.61	91	1573267	49.140	ppb	97
59) Bromobenzene	8.50	156	432762	49.250	ppb	98
60) 1,3,5-Trimethylbenzene	8.79	105	1254807	51.310	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	341434	48.799	ppb	99
62] 1,2,3-Trichloropropane	8.56	75	255174	50.351	ppb	99
63) 2-Chlorotoluene	8.69	91	922212	50.132	ppb	98
64) 4-Chlorotoluene	8.80	91	1087742	49.221	ppb	92
65) tert-Butylbenzene	9.10	119	1193351	52.395	ppb	96
66) 1,2,4-Trimethylbenzene	9.15	105	1326833	51.817	ppb	98
67) sec-Butylbenzene	9.31	105	1686677	51.390	ppb	99
68) p-Isopropyltoluene	9.46	119	1483229	51.571	ppb	97
69) 1,3-Dichlorobenzene	9.41	146	829900	50.034	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	818857	49.708	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	795592	50.164	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	69490	51.492	ppb	80
73) 1,2,4-Trichlorobenzene	11.43	180	606340	50.939	ppb	96
74) Hexachlorobutadiene	11.61	225	329364	51.195	ppb	93
75) Naphthalene	11.68	128	1419573	53.571	ppb	98
76) 1,2,3-Trichlorobenzene	11.91	180	562669	51.077	ppb	99

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080230.D  
 Acq On : 02 Aug 2023 08:43 pm  
 Operator : LM  
 Sample : S0 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

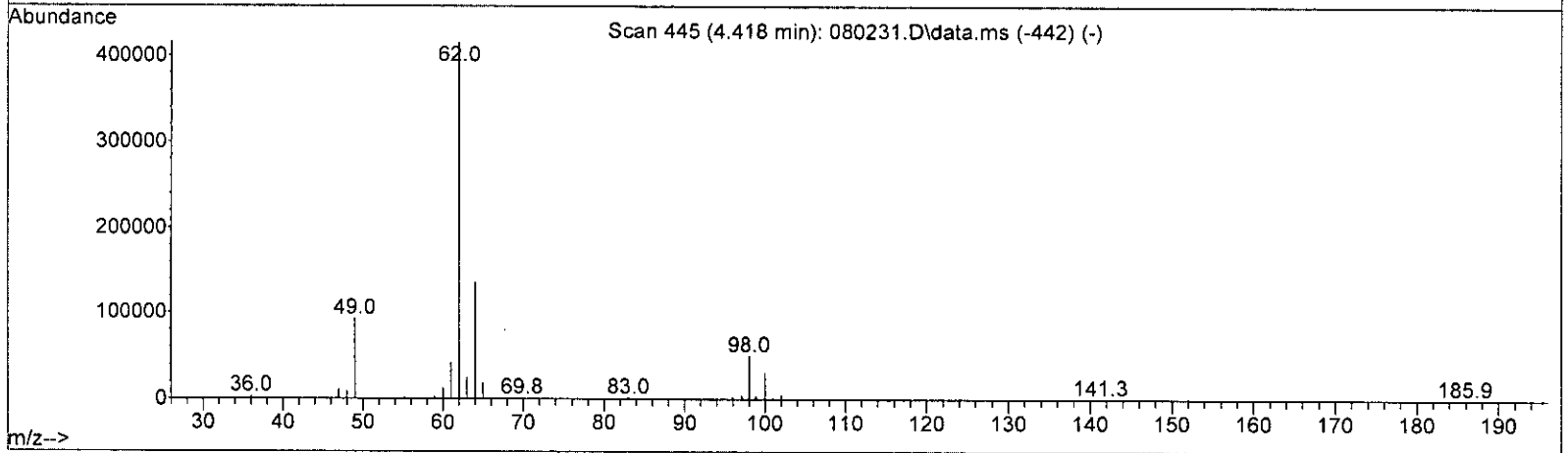
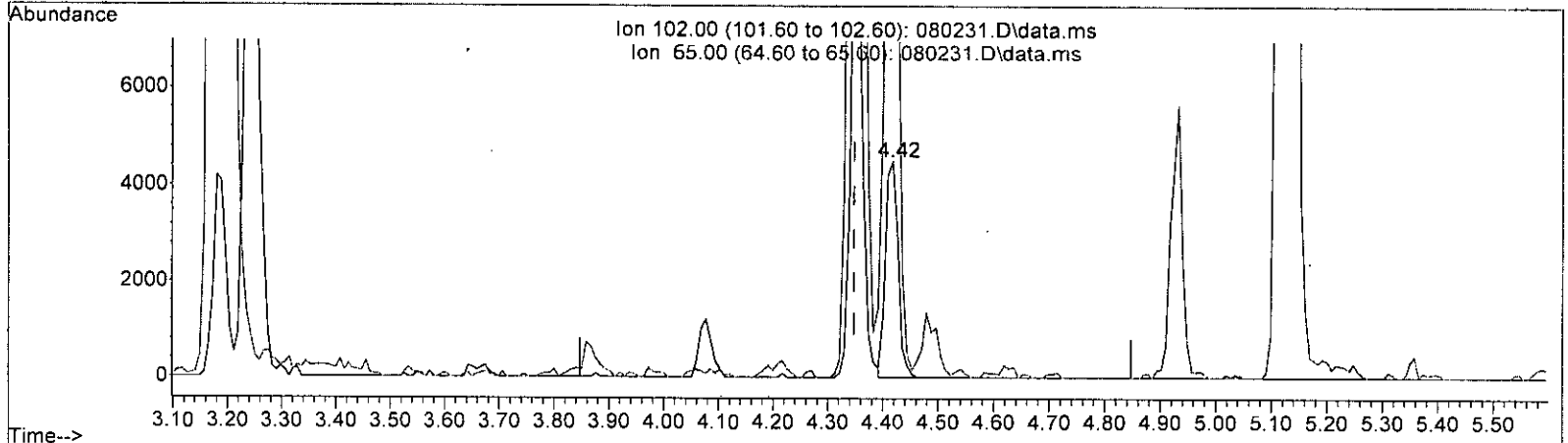
Quant Time: Aug 03 09:53:57 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



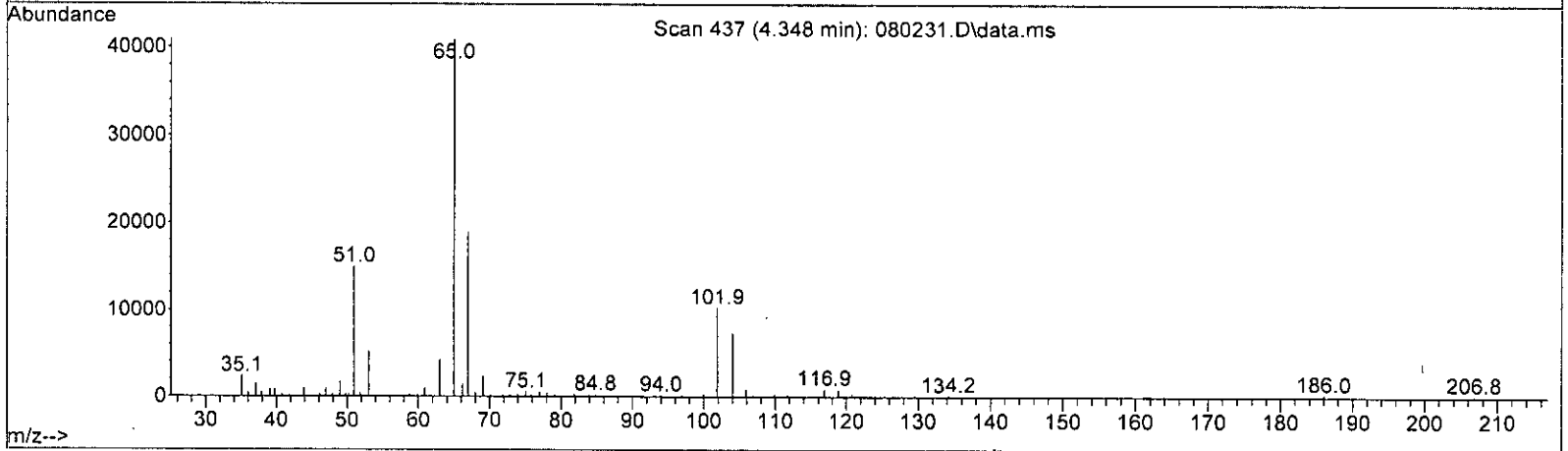
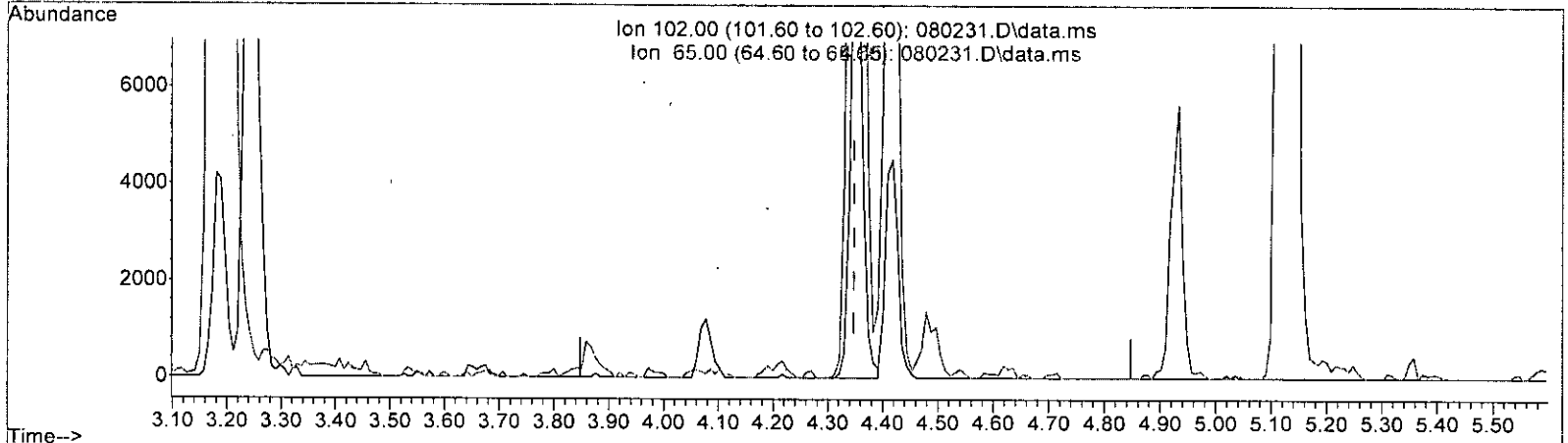
TIC: 080231.D\data.ms

(30) 1,2-Dichloroethane-d4 (S)		
4.418min (+ 0.070) 5.014 ppb		
response	7339	
Ion	Exp%	Act%
102.00	100.00	100.00
65.00	427.10	419.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080231.D\data.ms

(30) 1,2-Dichloroethane-d4 (S)			
4.348min (-0.000) 9.981 ppb m			
response	14610		
Ion	Exp%	Act%	
102.00	100.00	100.00	
65.00	427.10	399.73#	
0.00	0.00	0.00	
0.00	0.00	0.00	

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	93	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 5 Dibromofluoromethane	10.000	10.392	-3.9	98	0.00
4 TMP Dichlorodifluoromethane	100.000	105.367	-5.4	132	0.02
5 TMP Chloromethane	100.000	99.349	0.7	133	0.02
6 TMP Vinyl chloride	100.000	105.115	-5.1	133	0.02
7 TMP Bromomethane	100.000	101.518	-1.5	142	0.00
8 TMP Chloroethane	100.000	100.364	-0.4	134	0.00
9 TMP Trichlorofluoromethane	100.000	99.598	0.4	136	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	500.000	533.311	-6.7	127	0.00
12 TMP 1,1-Dichloroethene	100.000	103.296	-3.3	132	0.00
13 TMP Hexane	100.000	101.661	-1.7	136	0.02
14 TMP Methylene chloride	100.000	103.563	-3.6	132	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	509.058	-1.8	95	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	101.554	-1.6	126	0.00
17 TMP trans-1,2-Dichloroethene	100.000	104.066	-4.1	133	0.00
18 TMP Diisopropyl ether (DIPE)	100.000	100.107	-0.1	120	0.00
19 TMP 1,1-Dichloroethane	100.000	99.404	0.6	131	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	101.477	-1.5	128	0.00
21 TMP 2,2-Dichloropropane	100.000	102.973	-3.0	132	0.00
22 TMP cis-1,2-Dichloroethene	100.000	98.114	1.9	132	0.00
23 TMP Chloroform	100.000	100.758	-0.8	133	0.00
24 TMP 2-Butanone (MEK)	500.000	508.656	-1.7	115	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	105.342	-5.3	130	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	104.222	-4.2	130	0.00
27 TMP 1,1,1-Trichloroethane	100.000	100.668	-0.7	133	0.00
28 TMP 1,1-Dichloropropene	100.000	98.890	1.1	134	0.00
29 TMP Carbon tetrachloride	100.000	99.971	0.0	136	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.981	0.2	89	0.00
31 TMP Benzene	100.000	104.743	-4.7	131	0.00
32 TMP Trichloroethene	100.000	102.968	-3.0	128	0.00
33 TMP 1,2-Dichloropropane	100.000	101.237	-1.2	132	0.00
34 TMP Bromodichloromethane	100.000	106.581	-6.6	134	0.00
35 S Toluene-d8	10.000	10.620	-6.2	98	0.00
36 TMP Dibromomethane	100.000	101.881	-1.9	129	0.00
37 TMP 4-Methyl-2-pentanone	500.000	528.838	-5.8	111	0.00
38 TMP cis-1,3-Dichloropropene	100.000	106.065	-6.1	130	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
40 TMP Toluene	100.000	101.019	-1.0	132	0.00
41 TMP trans-1,3-Dichloropropene	100.000	104.625	-4.6	132	0.01
42 TMP 1,1,2-Trichloroethane	100.000	95.752	4.2	127	0.00
43 TMP 2-Hexanone	500.000	489.366	2.1	119	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	97.675	2.3	131	0.00
45 TMP Tetrachloroethene	100.000	101.041	-1.0	138	0.00
46 TMP Dibromochloromethane	100.000	102.296	-2.3	131	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	100.302	-0.3	125	0.01
48 TMP Chlorobenzene	100.000	96.971	3.0	135	0.00
49 TMP Ethylbenzene	100.000	100.653	-0.7	133	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	100.565	-0.6	135	0.00
51 TMP m,p-Xylene	200.000	201.242	-0.6	135	0.00
52 TMP o-Xylene	100.000	101.336	-1.3	134	0.00
53 TMP Styrene	100.000	98.664	1.3	135	0.00
54 TMP Isopropylbenzene	100.000	100.944	-0.9	135	0.00
55 TMP Bromoform	100.000	105.644	-5.6	127	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	10.000	10.018	-0.2	92	0.00
58 TMP n-Propylbenzene	100.000	98.649	1.4	137	0.00
59 TMP Bromobenzene	100.000	97.467	2.5	135	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	102.741	-2.7	137	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	98.550	1.5	127	0.00
62 TMP 1,2,3-Trichloropropane	100.000	98.743	1.3	117	0.00
63 TMP 2-Chlorotoluene	100.000	100.235	-0.2	134	0.00
64 TMP 4-Chlorotoluene	100.000	96.491	3.5	135	0.00
65 TMP tert-Butylbenzene	100.000	104.073	-4.1	138	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	103.414	-3.4	137	0.00
67 TMP sec-Butylbenzene	100.000	102.863	-2.9	140	0.00
68 TMP p-Isopropyltoluene	100.000	104.028	-4.0	140	0.00
69 TMP 1,3-Dichlorobenzene	100.000	97.579	2.4	137	0.00
70 TMP 1,4-Dichlorobenzene	100.000	97.483	2.5	136	0.00
71 TMP 1,2-Dichlorobenzene	100.000	98.041	2.0	137	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	107.123	-7.1	116	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	104.157	-4.2	145	0.00
74 TMP Hexachlorobutadiene	100.000	100.266	-0.3	152	0.00
75 TMP Naphthalene	100.000	110.495	-10.5	128	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	101.831	-1.8	140	0.00

(#) = Out of Range

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

## Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	93	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.286	-6.3	98	0.00
4 TMP Dichlorodifluoromethane	0.697	0.852	-22.2#	132	0.02
5 TMP Chloromethane	0.636	0.746	-17.3	133	0.02
6 TMP Vinyl chloride	0.524	0.620	-18.3	133	0.02
7 TMP Bromomethane	0.407	0.454	-11.5	142	0.00
8 TMP Chloroethane	0.266	0.299	-12.4	134	0.00
9 TMP Trichlorofluoromethane	0.776	0.914	-17.8	136	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.047	0.057	-21.3#	127	0.00
12 TMP 1,1-Dichloroethene	0.351	0.380	-8.3	132	0.00
13 TMP Hexane	0.281	0.333	-18.5	136	0.02
14 TMP Methylene chloride	0.232	0.255	-9.9	132	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.025#	3.8	95	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.622	-11.3	126	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.276	-8.2	133	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.667	-12.9	120	0.00
19 TMP 1,1-Dichloroethane	0.348	0.395	-13.5	131	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.294	-14.4	128	0.00
21 TMP 2,2-Dichloropropane	0.247	0.252	-2.0	132	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.299	-11.2	132	0.00
23 TMP Chloroform	0.384	0.437	-13.8	133	0.00
24 TMP 2-Butanone (MEK)	0.131	0.150	-14.5	115	0.00
25 TMP t-Amyl methyl ether (TAME)	0.541	0.602	-11.3	130	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.297	6.0	130	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.422	-17.5	133	0.00
28 TMP 1,1-Dichloropropene	0.286	0.329	-15.0	134	0.00
29 TMP Carbon tetrachloride	0.317	0.386	-21.8#	136	0.00
30 S 1,2-Dichloroethane-d4	0.063	0.062	1.6	89	0.00
31 TMP Benzene	0.840	0.932	-11.0	131	0.00
32 TMP Trichloroethene	0.274	0.304	-10.9	128	0.00
33 TMP 1,2-Dichloropropane	0.192	0.224	-16.7	132	0.00
34 TMP Bromodichloromethane	0.265	0.320	-20.8#	134	0.00
35 S Toluene-d8	0.932	0.998	-7.1	98	0.00
36 TMP Dibromomethane	0.149	0.168	-12.8	129	0.00
37 TMP 4-Methyl-2-pentanone	0.042	0.048	-14.3	111	0.00
38 TMP cis-1,3-Dichloropropene	0.310	0.374	-20.6#	130	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
40 TMP Toluene	0.774	0.795	-2.7	132	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.408	-15.3	132	0.01
42 TMP 1,1,2-Trichloroethane	0.216	0.230	-6.5	127	0.00
43 TMP 2-Hexanone	0.210	0.228	-8.6	119	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.391	-8.3	131	0.00
45 TMP Tetrachloroethene	0.329	0.348	-5.8	138	0.00
46 TMP Dibromochloromethane	0.305	0.351	-15.1	131	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.311	1.0	125	0.01
48 TMP Chlorobenzene	0.846	0.947	-11.9	135	0.00
49 TMP Ethylbenzene	1.339	1.420	-6.0	133	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.344	-16.2	135	0.00
51 TMP m,p-Xylene	0.560	0.602	-7.5	135	0.00
52 TMP o-Xylene	0.553	0.606	-9.6	134	0.00
53 TMP Styrene	0.814	0.951	-16.8	135	0.00
54 TMP Isopropylbenzene	1.267	1.464	-15.5	135	0.00
55 TMP Bromoform	0.232	0.264	-13.8	127	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	0.749	0.725	3.2	92	0.00
58 TMP n-Propylbenzene	2.492	2.818	-13.1	137	0.00
59 TMP Bromobenzene	0.689	0.764	-10.9	135	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.242	-14.3	137	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.615	-6.8	127	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.447#	-4.7	117	0.00
63 TMP 2-Chlorotoluene	1.486	1.645	-10.7	134	0.00
64 TMP 4-Chlorotoluene	1.755	1.903	-8.4	135	0.00
65 TMP tert-Butylbenzene	1.793	2.115	-18.0	138	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.363	-16.4	137	0.00
67 TMP sec-Butylbenzene	2.486	3.013	-21.2#	140	0.00
68 TMP p-Isopropyltoluene	2.169	2.670	-23.1#	140	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.444	-12.2	137	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.433	-10.0	136	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.388	-12.6	137	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.129	-11.2	116	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.106	-20.0	145	0.00
74 TMP Hexachlorobutadiene	0.469	0.576	-22.8#	152	0.00
75 TMP Naphthalene	2.177	2.613	-20.0#	128	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	1.001	-16.5	140	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	234777	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	195313	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	111715	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	67207	10.392	ppb	0.00	
Spiked Amount	10.000		Range 50 - 150	Recovery	=	103.90%	
30) 1,2-Dichloroethane-d4	4.35	102	14610m	9.981	ppb	0.00	
Spiked Amount	10.000		Range 79 - 128	Recovery	=	99.80%	
35) Toluene-d8	5.97	98	234237	10.620	ppb	0.00	
Spiked Amount	10.000		Range 84 - 121	Recovery	=	106.20%	
57) 4-Bromofluorobenzene	8.37	95	81001	10.018	ppb	0.00	
Spiked Amount	10.000		Range 84 - 116	Recovery	=	100.20%	
Target Compounds							
							Qvalue
2) Ethanol	1.96	45	3525	No Calib	#		
4) Dichlorodifluoromethane	1.09	85	2000345	105.367	ppb		95
5) Chloromethane	1.23	50	1751521	99.349	ppb		98
6] Vinyl chloride	1.30	62	1455158	105.115	ppb		91
7) Bromomethane	1.53	94	1066949	101.518	ppb		92
8] Chloroethane	1.60	64	700892	100.364	ppb		98
9) Trichlorofluoromethane	1.79	101	2145900	99.598	ppb		96
10) 2-Propanol	2.39	45	3346	No Calib			
11) Acetone	2.25	58	668456	533.311	ppb		97
12] 1,1-Dichloroethene	2.19	96	892709	103.296	ppb		93
13) Hexane	3.06	57	782755	101.661	ppb		93
14) Methylene chloride	2.61	84	599540	103.563	ppb		98
15) t-Butyl alcohol (TBA)	2.72	59	295308	509.058	ppb		92
16] Methyl t-butyl ether (...)	2.83	73	1459802	101.554	ppb		95
17] trans-1,2-Dichloroethene	2.83	96	646842	104.066	ppb		100
18) Diisopropyl ether (DIPE)	3.24	45	1567110	100.107	ppb		96
19] 1,1-Dichloroethane	3.18	63	926628	99.404	ppb		99
20) Ethyl t-butyl ether (E...)	3.54	87	689883	101.477	ppb		98
21) 2,2-Dichloropropane	3.66	77	590716	102.973	ppb		99
22] cis-1,2-Dichloroethene	3.67	96	702631	98.114	ppb		97
23) Chloroform	3.94	83	1025931	100.758	ppb		97
24) 2-Butanone (MEK)	3.69	43	1766190	508.656	ppb		99
25) t-Amyl methyl ether (T...)	4.49	73	1413769	105.342	ppb		97
26] 1,2-Dichloroethane (EDC)	4.41	62	698280	104.222	ppb		96
27] 1,1,1-Trichloroethane	4.08	97	990739	100.668	ppb		96
28) 1,1-Dichloropropene	4.22	75	773285	98.890	ppb		97
29) Carbon tetrachloride	4.21	117	905177	99.971	ppb		99
31] Benzene	4.39	78	2188202	104.743	ppb		94
32] Trichloroethene	4.93	95	714850	102.968	ppb		87
33) 1,2-Dichloropropane	5.13	63	526827	101.237	ppb		98
34) Bromodichloromethane	5.37	83	750925	106.581	ppb		95
36) Dibromomethane	5.22	93	394432	101.881	ppb		95

Data Path : D:\Proc\_GCM511\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 AL5 Vial : 21 Sample Multiplier: 1  
 InstName : GCM511

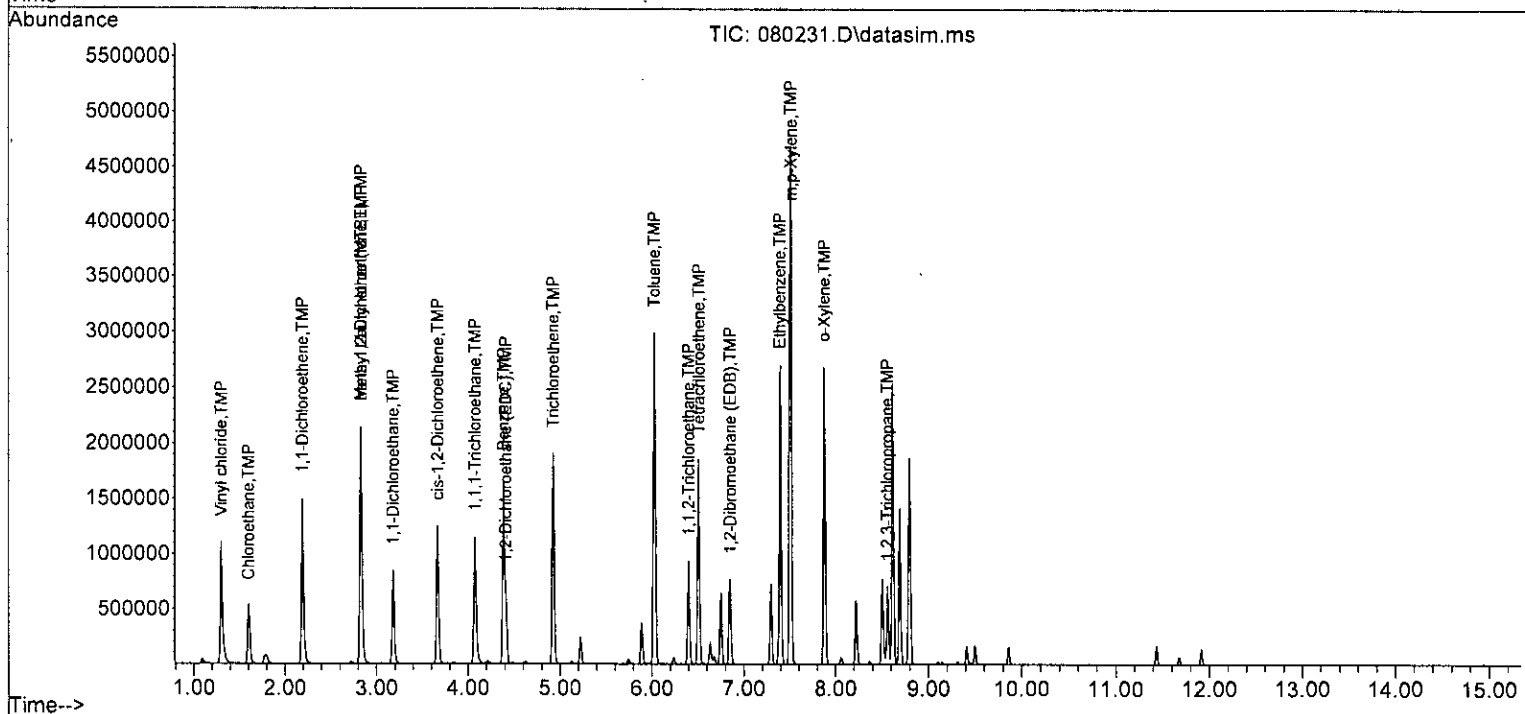
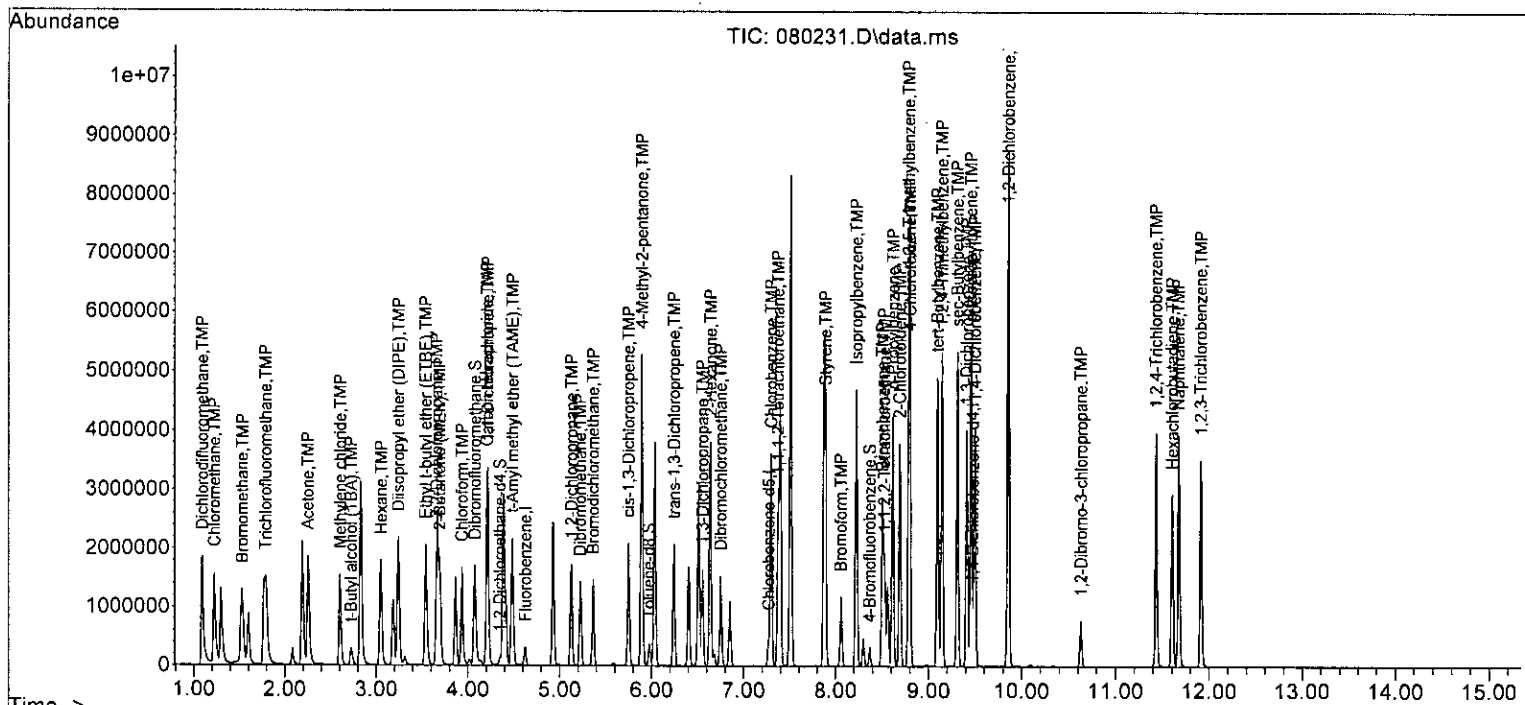
Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	557903	528.838	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	878919	106.065	ppb	97
40) Toluene	6.03	92	1552977	101.019	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	796269	104.625	ppb	94
42) 1,1,2-Trichloroethane	6.40	83	448931	95.752	ppb	96
43) 2-Hexanone	6.64	43	2221845	489.366	ppb	98
44) 1,3-Dichloropropane	6.55	76	763091	97.675	ppb	99
45) Tetrachloroethene	6.51	164	678731	101.041	ppb	99
46) Dibromochloromethane	6.75	129	686376	102.296	ppb	95
47) 1,2-Dibromoethane (EDB)	6.85	107	607238	100.302	ppb	92
48) Chlorobenzene	7.30	112	1850481	96.971	ppb	98
49) Ethylbenzene	7.39	91	2772668	100.653	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	672738	100.565	ppb	98
51) m,p-Xylene	7.51	106	2350346	201.242	ppb	82
52) o-Xylene	7.88	106	1183246	101.336	ppb	100
53) Styrene	7.90	104	1858229	98.664	ppb	94
54) Isopropylbenzene	8.23	105	2860292	100.944	ppb	98
55) Bromoform	8.06	173	515875	105.644	ppb	98
58) n-Propylbenzene	8.62	91	3148614	98.649	ppb	100
59) Bromobenzene	8.50	156	853806	97.467	ppb	97
60) 1,3,5-Trimethylbenzene	8.79	105	2504807	102.741	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	687395	98.550	ppb	99
62) 1,2,3-Trichloropropane	8.56	75	498873	98.743	ppb	99
63) 2-Chlorotoluene	8.69	91	1838191	100.235	ppb	99
64) 4-Chlorotoluene	8.80	91	2125804	96.491	ppb	93
65) tert-Butylbenzene	9.10	119	2363025	104.073	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	2639882	103.414	ppb	97
67) sec-Butylbenzene	9.31	105	3365641	102.863	ppb	100
68) p-Isopropyltoluene	9.46	119	2982708	104.028	ppb	97
69) 1,3-Dichlorobenzene	9.41	146	1613496	97.579	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	1600920	97.483	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	1550109	98.041	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	144121	107.123	ppb	89
73) 1,2,4-Trichlorobenzene	11.43	180	1235996	104.157	ppb	97
74) Hexachlorobutadiene	11.61	225	643072	100.266	ppb	93
75) Naphthalene	11.68	128	2918931	110.495	ppb	98
76) 1,2,3-Trichlorobenzene	11.91	180	1118309	101.831	ppb	98

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080231.D  
 Acq On : 02 Aug 2023 09:05 pm  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:53:59 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080232.D  
 Acq On : 02 Aug 2023 09:28 pm  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:01 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	95	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 S Dibromofluoromethane	10.000	9.222	7.8	89	0.00
4 TMP Dichlorodifluoromethane	150.000	151.870	-1.2	102	0.00
5 TMP Chloromethane	150.000	142.837	4.8	101	0.02
6 TMP Vinyl chloride	150.000	150.332	-0.2	102	0.02
7 TMP Bromomethane	150.000	147.035	2.0	102	0.00
8 TMP Chloroethane	150.000	144.550	3.6	101	0.00
9 TMP Trichlorofluoromethane	150.000	143.801	4.1	101	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	750.000	725.789	3.2	112	0.00
12 TMP 1,1-Dichloroethene	150.000	149.886	0.1	101	0.00
13 TMP Hexane	150.000	154.677	-3.1	105	0.00
14 TMP Methylene chloride	150.000	150.030	-0.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	750.000	739.912	1.3	97	0.00
16 TMP Methyl t-butyl ether (MTBE)	150.000	145.400	3.1	99	0.00
17 TMP trans-1,2-Dichloroethene	150.000	149.317	0.5	102	0.00
18 TMP Diisopropyl ether (DIPE)	150.000	145.423	3.1	93	0.00
19 TMP 1,1-Dichloroethane	150.000	142.349	5.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	150.000	147.786	1.5	99	0.00
21 TMP 2,2-Dichloropropane	150.000	143.083	4.6	100	0.00
22 TMP cis-1,2-Dichloroethene	150.000	140.516	6.3	101	0.00
23 TMP Chloroform	150.000	145.063	3.3	101	0.00
24 TMP 2-Butanone (MEK)	750.000	737.956	1.6	111	0.00
25 TMP t-Amyl methyl ether (TAME)	150.000	150.707	-0.5	98	0.00
26 TMP 1,2-Dichloroethane (EDC)	150.000	149.400	0.4	101	0.00
27 TMP 1,1,1-Trichloroethane	150.000	144.823	3.5	102	0.00
28 TMP 1,1-Dichloropropene	150.000	143.311	4.5	101	0.00
29 TMP Carbon tetrachloride	150.000	146.190	2.5	104	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.944	0.6	96	0.00
31 TMP Benzene	150.000	149.551	0.3	101	0.00
32 TMP Trichloroethene	150.000	151.139	-0.8	103	0.00
33 TMP 1,2-Dichloropropane	150.000	147.920	1.4	102	0.00
34 TMP Bromodichloromethane	150.000	156.645	-4.4	103	0.00
35 S Toluene-d8	10.000	10.027	-0.3	93	0.01
36 TMP Dibromomethane	150.000	146.052	2.6	102	0.00
37 TMP 4-Methyl-2-pentanone	750.000	769.499	-2.6	103	0.00
38 TMP cis-1,3-Dichloropropene	150.000	160.165	-6.8	103	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	95	0.00
40 TMP Toluene	150.000	148.872	0.8	102	0.00
41 TMP trans-1,3-Dichloropropene	150.000	154.646	-3.1	102	0.01
42 TMP 1,1,2-Trichloroethane	150.000	141.606	5.6	103	0.00
43 TMP 2-Hexanone	750.000	733.827	2.2	112	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080232.D  
 Acq On : 02 Aug 2023 09:28 pm  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:01 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	143.266	4.5	103	0.00
45 TMP Tetrachloroethene	150.000	148.708	0.9	104	0.00
46 TMP Dibromochloromethane	150.000	153.608	-2.4	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	150.000	149.302	0.5	105	0.01
48 TMP Chlorobenzene	150.000	142.929	4.7	104	0.00
49 TMP Ethylbenzene	150.000	149.030	0.6	103	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	146.634	2.2	103	0.00
51 TMP m,p-Xylene	300.000	300.222	-0.1	104	0.00
52 TMP o-Xylene	150.000	148.829	0.8	103	0.00
53 TMP Styrene	150.000	147.948	1.4	103	0.00
54 TMP Isopropylbenzene	150.000	148.744	0.8	103	0.00
55 TMP Bromoform	150.000	161.544	-7.7	106	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	10.000	10.263	-2.6	95	0.00
58 TMP n-Propylbenzene	150.000	151.552	-1.0	104	0.00
59 TMP Bromobenzene	150.000	152.936	-2.0	105	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	156.783	-4.5	103	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	146.061	2.6	101	0.00
62 TMP 1,2,3-Trichloropropane	150.000	152.058	-1.4	105	0.00
63 TMP 2-Chlorotoluene	150.000	154.646	-3.1	103	0.00
64 TMP 4-Chlorotoluene	150.000	150.974	-0.6	105	0.00
65 TMP tert-Butylbenzene	150.000	159.116	-6.1	104	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	159.287	-6.2	103	0.00
67 TMP sec-Butylbenzene	150.000	158.455	-5.6	106	0.00
68 TMP p-Isopropyltoluene	150.000	160.143	-6.8	106	0.00
69 TMP 1,3-Dichlorobenzene	150.000	150.728	-0.5	104	0.00
70 TMP 1,4-Dichlorobenzene	150.000	150.752	-0.5	105	0.00
71 TMP 1,2-Dichlorobenzene	150.000	149.151	0.6	104	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	165.744	-10.5	106	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	160.126	-6.8	105	0.00
74 TMP Hexachlorobutadiene	150.000	155.274	-3.5	112	0.00
75 TMP Naphthalene	150.000	167.260	-11.5	104	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	156.126	-4.1	105	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080232.D  
 Acq On : 02 Aug 2023 09:28 pm  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 AL5 Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:01 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.00
3 S	Dibromofluoromethane	0.269	0.254	5.6	89	0.00
4 TMP	Dichlorodifluoromethane	0.697	0.819	-17.5	102	0.00
5 TMP	Chloromethane	0.636	0.715	-12.4	101	0.02
6 TMP	Vinyl chloride	0.524	0.591	-12.8	102	0.02
7 TMP	Bromomethane	0.407	0.439	-7.9	102	0.00
8 TMP	Chloroethane	0.266	0.287	-7.9	101	0.00
9 TMP	Trichlorofluoromethane	0.776	0.880	-13.4	101	0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP	Acetone	0.047	0.052	-10.6	112	0.00
12 TMP	1,1-Dichloroethene	0.351	0.368	-4.8	101	0.00
13 TMP	Hexane	0.281	0.338	-20.3#	105	0.00
14 TMP	Methylene chloride	0.232	0.246	-6.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.026	0.024#	7.7	97	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.559	0.593	-6.1	99	0.00
17 TMP	trans-1,2-Dichloroethene	0.255	0.264	-3.5	102	0.00
18 TMP	Diisopropyl ether (DIPE)	0.591	0.646	-9.3	93	0.00
19 TMP	1,1-Dichloroethane	0.348	0.377	-8.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.257	0.285	-10.9	99	0.00
21 TMP	2,2-Dichloropropane	0.247	0.233	5.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.269	0.286	-6.3	101	0.00
23 TMP	Chloroform	0.384	0.419	-9.1	101	0.00
24 TMP	2-Butanone (MEK)	0.131	0.146	-11.5	111	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.541	0.574	-6.1	98	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.316	0.284	10.1	101	0.00
27 TMP	1,1,1-Trichloroethane	0.359	0.405	-12.8	102	0.00
28 TMP	1,1-Dichloropropene	0.286	0.318	-11.2	101	0.00
29 TMP	Carbon tetrachloride	0.317	0.376	-18.6	104	0.00
30 S	1,2-Dichloroethane-d4	0.063	0.062	1.6	96	0.00
31 TMP	Benzene	0.840	0.887	-5.6	101	0.00
32 TMP	Trichloroethene	0.274	0.298	-8.8	103	0.00
33 TMP	1,2-Dichloropropane	0.192	0.219	-14.1	102	0.00
34 TMP	Bromodichloromethane	0.265	0.313	-18.1	103	0.00
35 S	Toluene-d8	0.932	0.942	-1.1	93	0.01
36 TMP	Dibromomethane	0.149	0.161	-8.1	102	0.00
37 TMP	4-Methyl-2-pentanone	0.042	0.046	-9.5	103	0.00
38 TMP	cis-1,3-Dichloropropene	0.310	0.377	-21.6#	103	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
40 TMP	Toluene	0.774	0.781	-0.9	102	0.00
41 TMP	trans-1,3-Dichloropropene	0.354	0.402	-13.6	102	0.01
42 TMP	1,1,2-Trichloroethane	0.216	0.227	-5.1	103	0.00
43 TMP	2-Hexanone	0.210	0.227	-8.1	112	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM511\08-02-23\  
 Data File : 080232.D  
 Acq On : 02 Aug 2023 09:28 pm  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Aug 03 09:54:01 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.382	-5.8	103	0.00
45 TMP Tetrachloroethene	0.329	0.341	-3.6	104	0.00
46 TMP Dibromochloromethane	0.305	0.352	-15.4	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.309	1.6	105	0.01
48 TMP Chlorobenzene	0.846	0.931	-10.0	104	0.00
49 TMP Ethylbenzene	1.339	1.401	-4.6	103	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.335	-13.2	103	0.00
51 TMP m,p-Xylene	0.560	0.598	-6.8	104	0.00
52 TMP o-Xylene	0.553	0.593	-7.2	103	0.00
53 TMP Styrene	0.814	0.951	-16.8	103	0.00
54 TMP Isopropylbenzene	1.267	1.439	-13.6	103	0.00
55 TMP Bromoform	0.232	0.269	-15.9	106	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	0.749	0.743	0.8	95	0.00
58 TMP n-Propylbenzene	2.492	2.887	-15.9	104	0.00
59 TMP Bromobenzene	0.689	0.799	-16.0	105	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.281	-16.3	103	0.00
61 TMP 1,1,1,2-Tetrachloroethane	0.576	0.608	-5.6	101	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.458#	-7.3	105	0.00
63 TMP 2-Chlorotoluene	1.486	1.692	-13.9	103	0.00
64 TMP 4-Chlorotoluene	1.755	1.985	-13.1	105	0.00
65 TMP tert-Butylbenzene	1.793	2.156	-20.2#	104	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.427	-19.6	103	0.00
67 TMP sec-Butylbenzene	2.486	3.094	-24.5#	106	0.00
68 TMP p-Isopropyltoluene	2.169	2.740	-26.3#	106	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.487	-15.5	104	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.477	-13.4	105	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.407	-14.1	104	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.133	-14.7	106	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.134	-23.0#	105	0.00
74 TMP Hexachlorobutadiene	0.469	0.594	-26.7#	112	0.00
75 TMP Naphthalene	2.177	2.637	-21.1#	104	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	1.023	-19.1	105	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080232.D  
 Acq On : 02 Aug 2023 09:28 pm  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:01 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	241490	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	198094	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	108688	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	61343	9.222	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	92.20%
30) 1,2-Dichloroethane-d4	4.35	102	14973	9.944	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	99.40%
35) Toluene-d8	5.98	98	227484	10.027	ppb	0.01
Spiked Amount	10.000	Range	84 - 121	Recovery	=	100.30%
57) 4-Bromofluorobenzene	8.37	95	80737	10.263	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	102.60%

Target Compounds						Qvalue
2) Ethanol	1.95	45	1908	No Calib		
4) Dichlorodifluoromethane	1.09	85	2965615	151.870	ppb	96
5) Chloromethane	1.23	50	2590213	142.837	ppb	98
6] Vinyl chloride	1.30	62	2140619	150.332	ppb	90
7) Bromomethane	1.53	94	1589514	147.035	ppb	93
8] Chloroethane	1.60	64	1038328	144.550	ppb	98
9) Trichlorofluoromethane	1.78	101	3186870	143.801	ppb	97
10) 2-Propanol	2.35	45	206	No Calib		
11) Acetone	2.25	58	935720	725.789	ppb	93
12] 1,1-Dichloroethene	2.19	96	1332365	149.886	ppb	96
13) Hexane	3.05	57	1225009	154.677	ppb	93
14) Methylene chloride	2.61	84	891962	150.030	ppb	97
15) t-Butyl alcohol (TBA)	2.72	59	441501	739.912	ppb	91
16] Methyl t-butyl ether (...)	2.83	73	2149834	145.400	ppb	96
17] trans-1,2-Dichloroethene	2.83	96	954623	149.317	ppb	99
18) Diisopropyl ether (DIPE)	3.24	45	2341610	145.423	ppb	95
19] 1,1-Dichloroethane	3.18	63	1364886	142.349	ppb	99
20) Ethyl t-butyl ether (E...)	3.54	87	1033439	147.786	ppb	98
21) 2,2-Dichloropropane	3.66	77	843889	143.083	ppb	98
22] cis-1,2-Dichloroethene	3.67	96	1035059	140.516	ppb	95
23) Chloroform	3.94	83	1519281	145.063	ppb	96
24) 2-Butanone (MEK)	3.69	43	2635651	737.956	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	2080425	150.707	ppb	99
26] 1,2-Dichloroethane (EDC)	4.41	62	1029500	149.400	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	1466058	144.823	ppb	95
28) 1,1-Dichloropropene	4.22	75	1152677	143.311	ppb	97
29) Carbon tetrachloride	4.21	117	1361507	146.190	ppb	99
31] Benzene	4.38	78	3213541	149.551	ppb	94
32] Trichloroethene	4.93	95	1079249	151.139	ppb	88
33) 1,2-Dichloropropane	5.13	63	791770	147.920	ppb	98
34) Bromodichloromethane	5.37	83	1135205	156.645	ppb	98
36) Dibromomethane	5.22	93	581609	146.052	ppb	94



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080232.D  
 Acq On : 02 Aug 2023 09:28 pm  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

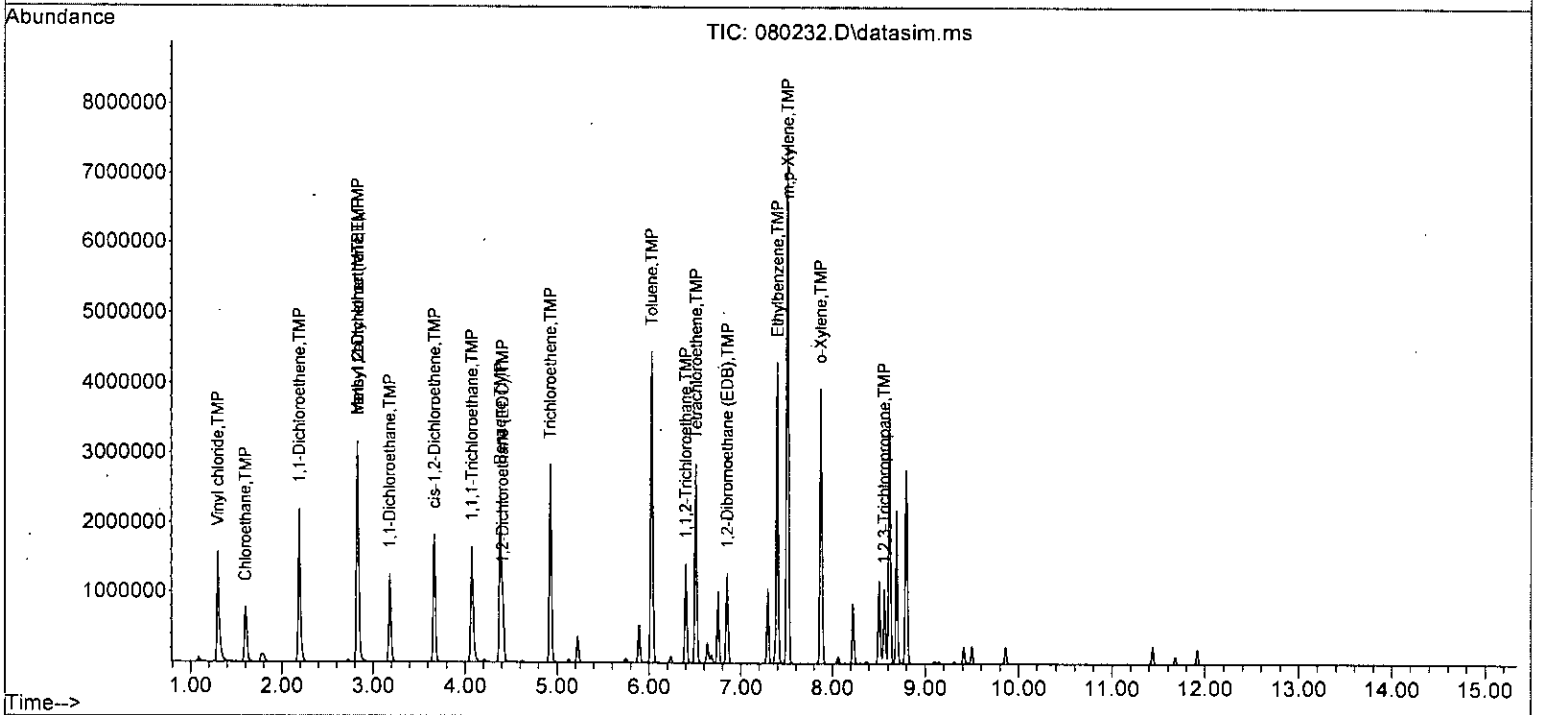
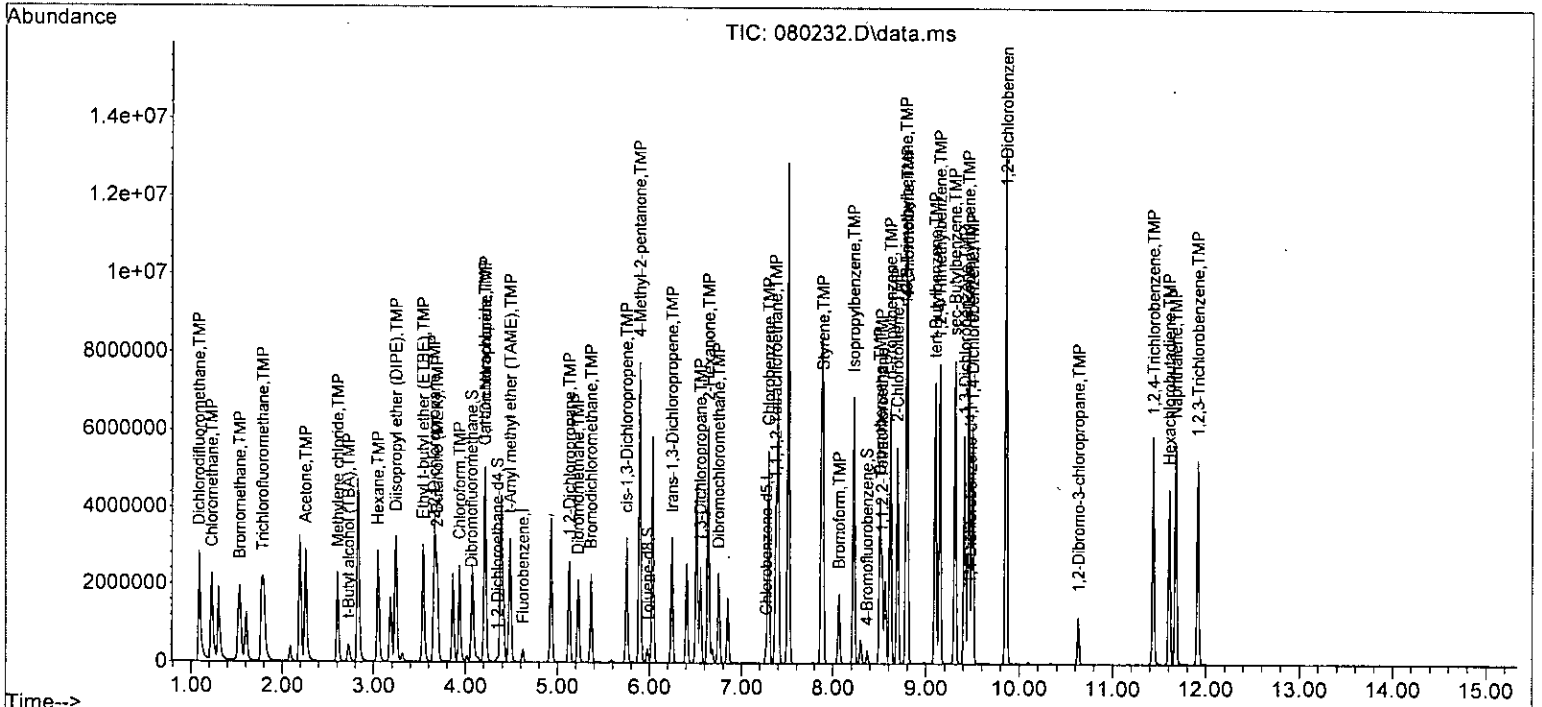
Quant Time: Aug 03 09:54:01 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.89	85	835003	769.499	ppb	99
38) cis-1,3-Dichloropropene	5.75	75	1365179	160.165	ppb	98
40] Toluene	6.03	92	2321080	148.872	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	1193730	154.646	ppb	95
42] 1,1,2-Trichloroethane	6.40	83	673368	141.606	ppb	95
43) 2-Hexanone	6.64	43	3379202	733.827	ppb	96
44) 1,3-Dichloropropane	6.55	76	1135207	143.266	ppb	97
45] Tetrachloroethene	6.51	164	1013100	148.708	ppb	98
46) Dibromochloromethane	6.75	129	1045343	153.608	ppb	94
47] 1,2-Dibromoethane (EDB)	6.85	107	916733	149.302	ppb	93
48) Chlorobenzene	7.30	112	2766345	142.929	ppb	98
49] Ethylbenzene	7.40	91	4163589	149.030	ppb	90
50) 1,1,1,2-Tetrachloroethane	7.38	131	994891	146.634	ppb	98
51] m,p-Xylene	7.51	106	3556188	300.222	ppb	84
52] o-Xylene	7.87	106	1762496	148.829	ppb	97
53) Styrene	7.90	104	2826126	147.948	ppb	94
54) Isopropylbenzene	8.23	105	4274733	148.744	ppb	98
55) Bromoform	8.07	173	800081	161.544	ppb	97
58) n-Propylbenzene	8.62	91	4706069	151.552	ppb	100
59) Bromobenzene	8.50	156	1303410	152.936	ppb	97
60) 1,3,5-Trimethylbenzene	8.79	105	3718772	156.783	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	991182	146.061	ppb	98
62] 1,2,3-Trichloropropane	8.56	75	747418	152.058	ppb	96
63) 2-Chlorotoluene	8.69	91	2759179	154.646	ppb	100
64) 4-Chlorotoluene	8.80	91	3235984	150.974	ppb	95
65) tert-Butylbenzene	9.10	119	3514933	159.116	ppb	94
66) 1,2,4-Trimethylbenzene	9.15	105	3956001	159.287	ppb	98
67) sec-Butylbenzene	9.31	105	5044098	158.455	ppb	99
68) p-Isopropyltoluene	9.46	119	4467223	160.143	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	2424804	150.728	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	2408648	150.752	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	2294316	149.151	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.63	75	216946	165.744	ppb	82
73) 1,2,4-Trichlorobenzene	11.44	180	1848664	160.126	ppb	97
74) Hexachlorobutadiene	11.61	225	968888	155.274	ppb	95
75) Naphthalene	11.68	128	4298772	167.260	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	1668124	156.126	ppb	98

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080232.D  
 Acq On : 02 Aug 2023 09:28 pm  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:01 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080233.D  
 Acq On : 02 Aug 2023 09:51 pm  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:03 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	97	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 S Dibromofluoromethane	10.000	9.494	5.1	98	0.00
4 TMP Dichlorodifluoromethane	200.000	197.175	1.4	107	0.00
5 TMP Chloromethane	200.000	184.863	7.6	106	0.00
6 TMP Vinyl chloride	200.000	195.501	2.2	107	0.00
7 TMP Bromomethane	200.000	188.482	5.8	105	0.00
8 TMP Chloroethane	200.000	186.698	6.7	106	0.00
9 TMP Trichlorofluoromethane	200.000	185.530	7.2	107	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	1000.000	982.195	1.8	111	0.00
12 TMP 1,1-Dichloroethene	200.000	194.287	2.9	106	0.00
13 TMP Hexane	200.000	203.072	-1.5	114	0.00
14 TMP Methylene chloride	200.000	195.547	2.2	106	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	968.206	3.2	91	0.00
16 TMP Methyl t-butyl ether (MTBE)	200.000	188.266	5.9	103	0.00
17 TMP trans-1,2-Dichloroethene	200.000	192.928	3.5	107	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	202.245	-1.1	105	0.00
19 TMP 1,1-Dichloroethane	200.000	184.083	8.0	105	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	190.306	4.8	103	0.00
21 TMP 2,2-Dichloropropane	200.000	198.723	0.6	116	0.00
22 TMP cis-1,2-Dichloroethene	200.000	181.611	9.2	106	0.00
23 TMP Chloroform	200.000	186.855	6.6	105	0.00
24 TMP 2-Butanone (MEK)	1000.000	942.765	5.7	105	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	197.096	1.5	104	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	192.733	3.6	105	0.00
27 TMP 1,1,1-Trichloroethane	200.000	186.452	6.8	107	0.00
28 TMP 1,1-Dichloropropene	200.000	188.057	6.0	108	0.00
29 TMP Carbon tetrachloride	200.000	188.795	5.6	108	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.320	6.8	97	0.00
31 TMP Benzene	200.000	191.736	4.1	106	0.00
32 TMP Trichloroethene	200.000	192.838	3.6	107	0.00
33 TMP 1,2-Dichloropropane	200.000	193.723	3.1	107	0.00
34 TMP Bromodichloromethane	200.000	203.764	-1.9	108	0.00
35 S Toluene-d8	10.000	9.871	1.3	94	0.01
36 TMP Dibromomethane	200.000	191.276	4.4	107	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	989.859	1.0	98	0.00
38 TMP cis-1,3-Dichloropropene	200.000	208.070	-4.0	107	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
40 TMP Toluene	200.000	197.717	1.1	107	0.00
41 TMP trans-1,3-Dichloropropene	200.000	211.268	-5.6	106	0.01
42 TMP 1,1,2-Trichloroethane	200.000	189.459	5.3	105	0.00
43 TMP 2-Hexanone	1000.000	968.156	3.2	107	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080233.D  
 Acq On : 02 Aug 2023 09:51 pm  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:03 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	192.993	3.5	106	0.00
45 TMP Tetrachloroethene	200.000	198.465	0.8	110	0.00
46 TMP Dibromochloromethane	200.000	206.830	-3.4	108	0.00
47 TMP 1,2-Dibromoethane (EDB)	200.000	197.897	1.1	106	0.01
48 TMP Chlorobenzene	200.000	189.953	5.0	108	0.00
49 TMP Ethylbenzene	200.000	197.506	1.2	108	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	193.579	3.2	107	0.00
51 TMP m,p-Xylene	400.000	395.172	1.2	109	0.00
52 TMP o-Xylene	200.000	198.185	0.9	108	0.00
53 TMP Styrene	200.000	197.832	1.1	108	0.00
54 TMP Isopropylbenzene	200.000	196.007	2.0	108	0.00
55 TMP Bromoform	200.000	215.699	-7.8	104	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	10.000	10.104	-1.0	96	0.00
58 TMP n-Propylbenzene	200.000	194.726	2.6	110	0.00
59 TMP Bromobenzene	200.000	194.417	2.8	108	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	202.012	-1.0	109	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	190.096	5.0	102	0.00
62 TMP 1,2,3-Trichloropropane	200.000	193.321	3.3	102	0.00
63 TMP 2-Chlorotoluene	200.000	199.323	0.3	109	0.00
64 TMP 4-Chlorotoluene	200.000	195.071	2.5	110	0.00
65 TMP tert-Butylbenzene	200.000	205.077	-2.5	109	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	205.541	-2.8	110	0.00
67 TMP sec-Butylbenzene	200.000	203.089	-1.5	112	0.00
68 TMP p-Isopropyltoluene	200.000	204.085	-2.0	112	0.00
69 TMP 1,3-Dichlorobenzene	200.000	193.059	3.5	111	0.00
70 TMP 1,4-Dichlorobenzene	200.000	193.972	3.0	111	0.00
71 TMP 1,2-Dichlorobenzene	200.000	191.759	4.1	108	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	213.043	-6.5	97	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	208.856	-4.4	113	0.00
74 TMP Hexachlorobutadiene	200.000	198.112	0.9	120	0.00
75 TMP Naphthalene	200.000	213.703	-6.9	104	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	201.899	-0.9	110	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080233.D  
 Acq On : 02 Aug 2023 09:51 pm  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:03 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	97	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.269	0.262	2.6	98	0.00
4 TMP Dichlorodifluoromethane	0.697	0.797	-14.3	107	0.00
5 TMP Chloromethane	0.636	0.694	-9.1	106	0.00
6 TMP Vinyl chloride	0.524	0.576	-9.9	107	0.00
7 TMP Bromomethane	0.407	0.422	-3.7	105	0.00
8 TMP Chloroethane	0.266	0.278	-4.5	106	0.00
9 TMP Trichlorofluoromethane	0.776	0.851	-9.7	107	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.047	0.052	-10.6	111	0.00
12 TMP 1,1-Dichloroethene	0.351	0.358	-2.0	106	0.00
13 TMP Hexane	0.281	0.333	-18.5	114	0.00
14 TMP Methylene chloride	0.232	0.241	-3.9	106	0.00
15 TMP t-Butyl alcohol (TBA)	0.026	0.024#	7.7	91	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.559	0.576	-3.0	103	0.00
17 TMP trans-1,2-Dichloroethene	0.255	0.255	0.0	107	0.00
18 TMP Diisopropyl ether (DIPE)	0.591	0.674	-14.0	105	0.00
19 TMP 1,1-Dichloroethane	0.348	0.365	-4.9	105	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.257	0.276	-7.4	103	0.00
21 TMP 2,2-Dichloropropane	0.247	0.243	1.6	116	0.00
22 TMP cis-1,2-Dichloroethene	0.269	0.277	-3.0	106	0.00
23 TMP Chloroform	0.384	0.405	-5.5	105	0.00
24 TMP 2-Butanone (MEK)	0.131	0.139	-6.1	105	0.00
25 TMP t-Amyl methyl ether (TAME)	0.541	0.563	-4.1	104	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.316	0.275	13.0	105	0.00
27 TMP 1,1,1-Trichloroethane	0.359	0.391	-8.9	107	0.00
28 TMP 1,1-Dichloropropene	0.286	0.313	-9.4	108	0.00
29 TMP Carbon tetrachloride	0.317	0.364	-14.8	108	0.00
30 S 1,2-Dichloroethane-d4	0.063	0.058	7.9	97	0.00
31 TMP Benzene	0.840	0.853	-1.5	106	0.00
32 TMP Trichloroethene	0.274	0.285	-4.0	107	0.00
33 TMP 1,2-Dichloropropane	0.192	0.215	-12.0	107	0.00
34 TMP Bromodichloromethane	0.265	0.306	-15.5	108	0.00
35 S Toluene-d8	0.932	0.927	0.5	94	0.01
36 TMP Dibromomethane	0.149	0.158	-6.0	107	0.00
37 TMP 4-Methyl-2-pentanone	0.042	0.044	-4.8	98	0.00
38 TMP cis-1,3-Dichloropropene	0.310	0.367	-18.4	107	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
40 TMP Toluene	0.774	0.778	-0.5	107	0.00
41 TMP trans-1,3-Dichloropropene	0.354	0.412	-16.4	106	0.01
42 TMP 1,1,2-Trichloroethane	0.216	0.227	-5.1	105	0.00
43 TMP 2-Hexanone	0.210	0.225	-7.1	107	0.01

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080233.D  
 Acq On : 02 Aug 2023 09:51 pm  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:03 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.361	0.386	-6.9	106	0.00
45 TMP Tetrachloroethene	0.329	0.341	-3.6	110	0.00
46 TMP Dibromochloromethane	0.305	0.355	-16.4	108	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.314	0.307	2.2	106	0.01
48 TMP Chlorobenzene	0.846	0.928	-9.7	108	0.00
49 TMP Ethylbenzene	1.339	1.393	-4.0	108	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.296	0.332	-12.2	107	0.00
51 TMP m,p-Xylene	0.560	0.591	-5.5	109	0.00
52 TMP o-Xylene	0.553	0.592	-7.1	108	0.00
53 TMP Styrene	0.814	0.954	-17.2	108	0.00
54 TMP Isopropylbenzene	1.267	1.422	-12.2	108	0.00
55 TMP Bromoform	0.232	0.270	-16.4	104	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	0.749	0.731	2.4	96	0.00
58 TMP n-Propylbenzene	2.492	2.782	-11.6	110	0.00
59 TMP Bromobenzene	0.689	0.762	-10.6	108	0.00
60 TMP 1,3,5-Trimethylbenzene	1.961	2.204	-12.4	109	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.576	0.593	-3.0	102	0.00
62 TMP 1,2,3-Trichloropropane	0.427	0.437#	-2.3	102	0.00
63 TMP 2-Chlorotoluene	1.486	1.636	-10.1	109	0.00
64 TMP 4-Chlorotoluene	1.755	1.923	-9.6	110	0.00
65 TMP tert-Butylbenzene	1.793	2.084	-16.2	109	0.00
66 TMP 1,2,4-Trimethylbenzene	2.030	2.348	-15.7	110	0.00
67 TMP sec-Butylbenzene	2.486	2.974	-19.6	112	0.00
68 TMP p-Isopropyltoluene	2.169	2.619	-20.7#	112	0.00
69 TMP 1,3-Dichlorobenzene	1.287	1.429	-11.0	111	0.00
70 TMP 1,4-Dichlorobenzene	1.303	1.426	-9.4	111	0.00
71 TMP 1,2-Dichlorobenzene	1.233	1.357	-10.1	108	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.116	0.128	-10.3	97	0.00
73 TMP 1,2,4-Trichlorobenzene	0.922	1.109	-20.3#	113	0.00
74 TMP Hexachlorobutadiene	0.469	0.569	-21.3#	120	0.00
75 TMP Naphthalene	2.177	2.527	-16.1	104	0.00
76 TMP 1,2,3-Trichlorobenzene	0.859	0.992	-15.5	110	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080233.D  
 Acq On : 02 Aug 2023 09:51 pm  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:03 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	247763	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	196456	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	111724	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	64793	9.494	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	94.90%	
30) 1,2-Dichloroethane-d4	4.35	102	14398	9.320	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	93.20%	
35) Toluene-d8	5.98	98	229764	9.871	ppb	0.01	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	98.70%	
57) 4-Bromofluorobenzene	8.37	95	81704	10.104	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	101.00%	
Target Compounds							
							Qvalue
2) Ethanol	1.94	45	1235	No Calib			
4) Dichlorodifluoromethane	1.09	85	3950316	197.175	ppb		95
5) Chloromethane	1.22	50	3439413	184.863	ppb		99
6] Vinyl chloride	1.29	62	2856102	195.501	ppb		98
7) Bromomethane	1.52	94	2090507	188.482	ppb		95
8] Chloroethane	1.60	64	1375918	186.698	ppb		97
9) Trichlorofluoromethane	1.78	101	4218445	185.530	ppb		97
10) 2-Propanol	2.39	45	4148	No Calib	#		
11) Acetone	2.25	58	1299184	982.195	ppb		100
12] 1,1-Dichloroethene	2.19	96	1771899	194.287	ppb		100
13) Hexane	3.05	57	1650066	203.072	ppb		93
14) Methylene chloride	2.61	84	1191788	195.547	ppb		97
15) t-Butyl alcohol (TBA)	2.72	59	592730	968.206	ppb		91
16] Methyl t-butyl ether (...)	2.83	73	2855959	188.266	ppb		97
17] trans-1,2-Dichloroethene	2.83	96	1265453	192.928	ppb		97
18) Diisopropyl ether (DIPE)	3.24	45	3341151	202.245	ppb		94
19] 1,1-Dichloroethane	3.18	63	1810896	184.083	ppb		97
20) Ethyl t-butyl ether (E...)	3.54	87	1365345	190.306	ppb		96
21) 2,2-Dichloropropane	3.66	77	1202094	198.723	ppb		98
22] cis-1,2-Dichloroethene	3.67	96	1372513	181.611	ppb		95
23) Chloroform	3.94	83	2007810	186.855	ppb		95
24) 2-Butanone (MEK)	3.69	43	3454602	942.765	ppb		99
25) t-Amyl methyl ether (T...)	4.49	73	2791475	197.096	ppb		99
26] 1,2-Dichloroethane (EDC)	4.41	62	1362542	192.733	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	1936496	186.452	ppb		95
28) 1,1-Dichloropropene	4.22	75	1551875	188.057	ppb		97
29) Carbon tetrachloride	4.21	117	1803971	188.795	ppb		100
31] Benzene	4.38	78	4226991	191.736	ppb		94
32] Trichloroethene	4.93	95	1412773	192.838	ppb		87
33) 1,2-Dichloropropane	5.13	63	1063879	193.723	ppb		98
34) Bromodichloromethane	5.37	83	1515041	203.764	ppb		96
36) Dibromomethane	5.22	93	781485	191.276	ppb		93

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080233.D  
 Acq On : 02 Aug 2023 09:51 pm  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:03 2023 /  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

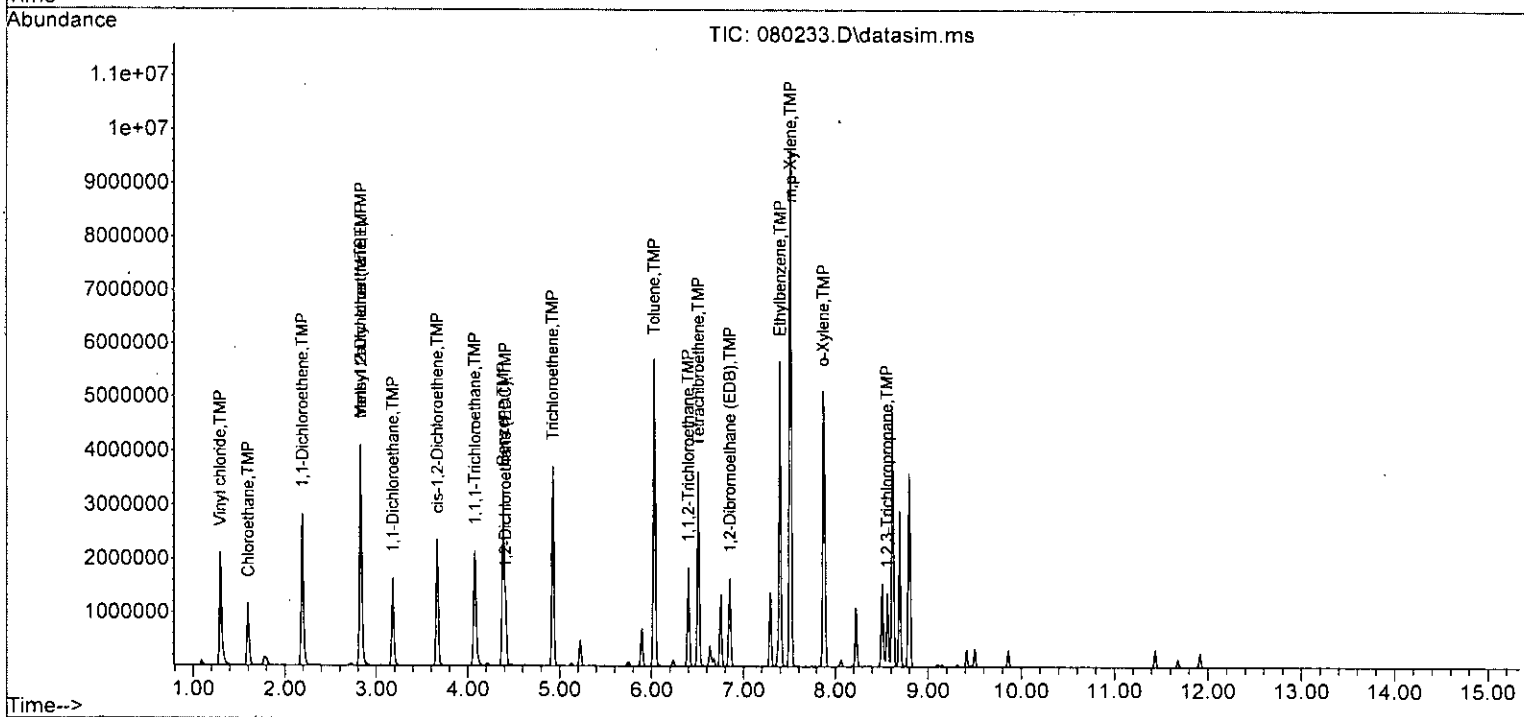
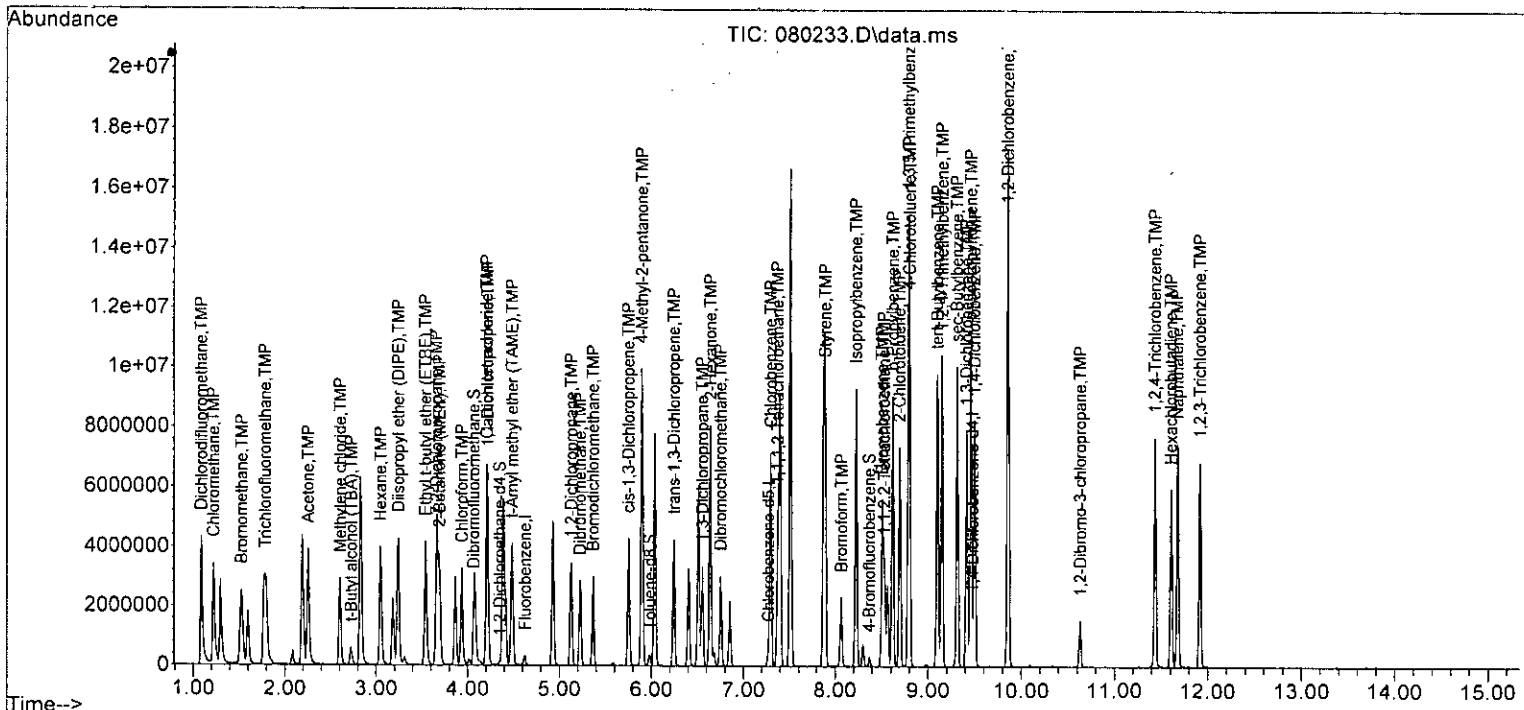
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.89	85	1102023	989.859	ppb	99
38) cis-1,3-Dichloropropene	5.75	75	1819561	208.070	ppb	97
40] Toluene	6.03	92	3057052	197.717	ppb	97
41) trans-1,3-Dichloropropene	6.25	75	1617311	211.268	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	893471	189.459	ppb	95
43) 2-Hexanone	6.64	43	4421398	968.156	ppb	97
44) 1,3-Dichloropropane	6.55	76	1516585	192.993	ppb	98
45] Tetrachloroethene	6.51	164	1340858	198.465	ppb	98
46) Dibromochloromethane	6.75	129	1395897	206.830	ppb	93
47] 1,2-Dibromoethane (EDB)	6.85	107	1205042	197.897	ppb	92
48) Chlorobenzene	7.30	112	3646071	189.953	ppb	97
49] Ethylbenzene	7.40	91	5472183	197.506	ppb	90
50) 1,1,1,2-Tetrachloroethane	7.38	131	1302545	193.579	ppb	99
51] m,p-Xylene	7.51	106	4642111	395.172	ppb	85
52] o-Xylene	7.87	106	2327567	198.185	ppb	97
53) Styrene	7.90	104	3747769	197.832	ppb	96
54) Isopropylbenzene	8.23	105	5586451	196.007	ppb	96
55) Bromoform	8.07	173	1059459	215.699	ppb	97
58) n-Propylbenzene	8.62	91	6215663	194.726	ppb	99
59) Bromobenzene	8.50	156	1703218	194.417	ppb	97
60) 1,3,5-Trimethylbenzene	8.80	105	4925405	202.012	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	1326037	190.096	ppb	99
62] 1,2,3-Trichloropropane	8.56	75	976779	193.321	ppb	96
63) 2-Chlorotoluene	8.69	91	3655623	199.323	ppb	100
64) 4-Chlorotoluene	8.80	91	4297971	195.071	ppb	95
65) tert-Butylbenzene	9.10	119	4656754	205.077	ppb	94
66) 1,2,4-Trimethylbenzene	9.15	105	5247322	205.541	ppb	98
67) sec-Butylbenzene	9.31	105	6645517	203.089	ppb	100
68) p-Isopropyltoluene	9.46	119	5852015	204.085	ppb	97
69) 1,3-Dichlorobenzene	9.41	146	3192555	193.059	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	3185778	193.972	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	3032119	191.759	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	286646	213.043	ppb	85
73) 1,2,4-Trichlorobenzene	11.44	180	2478618	208.856	ppb	98
74) Hexachlorobutadiene	11.61	225	1270720	198.112	ppb	95
75) Naphthalene	11.68	128	5645827	213.703	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	2217437	201.899	ppb	99

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



Data Path : D:\Proc\_GCMS11\08-02-23\  
Data File : 080233.D  
Acq On : 02 Aug 2023 09:51 pm  
Operator : LM  
Sample : 200 ppb 8260 ICAL 69-198u  
Misc : soil/water  
ALS Vial : 23 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Aug 03 09:54:03 2023  
Quant Method : D:\Methods\Inst11\080223vms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Aug 03 09:44:33 2023  
Response via : Initial Calibration  
DataAcq Meth:VM042423.M



Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080235.D  
 Acq On : 02 Aug 2023 10:36 pm  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:05 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	98	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	238	-0.02
3 S	Dibromofluoromethane	10.000	9.907	0.9	97	0.00
4 TMP	Dichlorodifluoromethane	10.000	10.150	-1.5	97	0.00
5 TMP	Chloromethane	10.000	9.370	6.3	92	0.00
6 TMP	Vinyl chloride	10.000	10.667	-6.7	97	0.00
7 TMP	Bromomethane	10.000	10.165	-1.6	97	0.00
8 TMP	Chloroethane	10.000	10.135	-1.3	96	0.00
9 TMP	Trichlorofluoromethane	10.000	9.856	1.4	99	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	101	0.00
11 TMP	Acetone	50.000	35.077	29.8#	70	0.00
12 TMP	1,1-Dichloroethene	10.000	11.420	-14.2	107	0.00
13 TMP	Hexane	10.000	10.723	-7.2	111	0.00
14 TMP	Methylene chloride	10.000	10.281	-2.8	102	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	51.102	-2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.642	-6.4	103	0.00
17 TMP	trans-1,2-Dichloroethene	10.000	11.102	-11.0	102	0.00
18 TMP	Diisopropyl ether (DIPE)	10.000	10.281	-2.8	102	0.00
19 TMP	1,1-Dichloroethane	10.000	10.404	-4.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.139	-1.4	100	0.00
21 TMP	2,2-Dichloropropane	10.000	10.440	-4.4	94	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.140	-1.4	98	0.00
23 TMP	Chloroform	10.000	9.942	0.6	100	0.00
24 TMP	2-Butanone (MEK)	50.000	39.125	21.8#	75	0.00
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.297	-3.0	102	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	10.666	-6.7	99	0.00
27 TMP	1,1,1-Trichloroethane	10.000	9.910	0.9	97	0.00
28 TMP	1,1-Dichloropropene	10.000	9.655	3.5	101	0.00
29 TMP	Carbon tetrachloride	10.000	9.732	2.7	98	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.281	-2.8	104	0.00
31 TMP	Benzene	10.000	10.685	-6.9	99	0.00
32 TMP	Trichloroethene	10.000	10.760	-7.6	101	0.00
33 TMP	1,2-Dichloropropane	10.000	9.980	0.2	99	0.00
34 TMP	Bromodichloromethane	10.000	9.967	0.3	96	0.00
35 S	Toluene-d8	10.000	10.312	-3.1	102	0.00
36 TMP	Dibromomethane	10.000	10.215	-2.1	102	0.00
37 TMP	4-Methyl-2-pentanone	50.000	51.804	-3.6	103	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	10.202	-2.0	102	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	10.000	10.377	-3.8	100	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	10.388	-3.9	109	0.01
42 TMP	1,1,2-Trichloroethane	10.000	9.931	0.7	102	0.00
43 TMP	2-Hexanone	50.000	45.492	9.0	89	0.00
44 TMP	1,3-Dichloropropane	10.000	10.146	-1.5	104	0.00
45 TMP	Tetrachloroethene	10.000	10.439	-4.4	100	0.00
46 TMP	Dibromochloromethane	10.000	9.621	3.8	97	0.00

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080235.D  
 Acq On : 02 Aug 2023 10:36 pm  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:05 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.413	-4.1	100	0.00
48 TMP Chlorobenzene	10.000	9.818	1.8	99	0.00
49 TMP Ethylbenzene	10.000	10.626	-6.3	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.276	7.2	93	0.00
51 TMP m,p-Xylene	20.000	20.433	-2.2	99	0.00
52 TMP o-Xylene	10.000	10.011	-0.1	98	0.00
53 TMP Styrene	10.000	9.895	1.1	101	0.00
54 TMP Isopropylbenzene	10.000	10.471	-4.7	104	0.00
55 TMP Bromoform	10.000	10.249	-2.5	110	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	97	0.00
57 S 4-Bromofluorobenzene	10.000	10.040	-0.4	101	0.00
58 TMP n-Propylbenzene	10.000	10.092	-0.9	103	0.00
59 TMP Bromobenzene	10.000	9.878	1.2	98	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.192	-1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.030	-0.3	97	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.376	-3.8	101	0.00
63 TMP 2-Chlorotoluene	10.000	10.245	-2.4	101	0.00
64 TMP 4-Chlorotoluene	10.000	9.988	0.1	100	0.00
65 TMP tert-Butylbenzene	10.000	10.014	-0.1	98	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.043	-0.4	101	0.00
67 TMP sec-Butylbenzene	10.000	10.099	-1.0	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.221	-2.2	102	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.129	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.775	2.2	95	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.912	0.9	98	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.797	2.0	101	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.014	-0.1	102	0.00
74 TMP Hexachlorobutadiene	10.000	10.384	-3.8	105	0.00
75 TMP Naphthalene	10.000	10.070	-0.7	101	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.135	-1.3	103	0.00

(#) = Out of Range

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080235.D  
 Acq On : 02 Aug 2023 10:36 pm  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:05 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	98	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	238#	-0.02
3 S	Dibromofluoromethane	0.275	0.273	0.7	97	0.00
4 TMP	Dichlorodifluoromethane	0.809	0.821	-1.5	97	0.00
5 TMP	Chloromethane	0.751	0.704	6.3	92	0.00
6 TMP	Vinyl chloride	0.590	0.629	-6.6	97	0.00
7 TMP	Bromomethane	0.446	0.455	-2.0	97	0.00
8 TMP	Chloroethane	0.297	0.301	-1.3	96	0.00
9 TMP	Trichlorofluoromethane	0.918	0.904	1.5	99	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	101	0.00
11 TMP	Acetone	0.053	0.037	30.2#	70	0.00
12 TMP	1,1-Dichloroethene	0.384	0.421	-9.6	107	0.00
13 TMP	Hexane	0.328	0.352	-7.3	111	0.00
14 TMP	Methylene chloride	0.260	0.265	-1.9	102	0.00
15 TMP	t-Butyl alcohol (TBA)	0.025	0.025#	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.612	0.652	-6.5	103	0.00
17 TMP	trans-1,2-Dichloroethene	0.285	0.294	-3.2	102	0.00
18 TMP	Diisopropyl ether (DIPE)	0.667	0.686	-2.8	102	0.00
19 TMP	1,1-Dichloroethane	0.397	0.413	-4.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.290	0.294	-1.4	100	0.00
21 TMP	2,2-Dichloropropane	0.277	0.259	6.5	94	0.00
22 TMP	cis-1,2-Dichloroethene	0.305	0.309	-1.3	98	0.00
23 TMP	Chloroform	0.434	0.431	0.7	100	0.00
24 TMP	2-Butanone (MEK)	0.148	0.116	21.6#	75	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.571	0.589	-3.2	102	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.342	0.305	10.8	99	0.00
27 TMP	1,1,1-Trichloroethane	0.419	0.415	1.0	97	0.00
28 TMP	1,1-Dichloropropene	0.333	0.322	3.3	101	0.00
29 TMP	Carbon tetrachloride	0.386	0.375	2.8	98	0.00
30 S	1,2-Dichloroethane-d4	0.062	0.064	-3.2	104	0.00
31 TMP	Benzene	0.945	0.952	-0.7	99	0.00
32 TMP	Trichloroethene	0.310	0.318	-2.6	101	0.00
33 TMP	1,2-Dichloropropane	0.222	0.221	0.5	99	0.00
34 TMP	Bromodichloromethane	0.300	0.299	0.3	96	0.00
35 S	Toluene-d8	0.939	0.969	-3.2	102	0.00
36 TMP	Dibromomethane	0.165	0.168	-1.8	102	0.00
37 TMP	4-Methyl-2-pentanone	0.045	0.047	-4.4	103	0.00
38 TMP	cis-1,3-Dichloropropene	0.353	0.360	-2.0	102	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.875	0.818	6.5	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.390	0.405	-3.8	109	0.01
42 TMP	1,1,2-Trichloroethane	0.240	0.238	0.8	102	0.00
43 TMP	2-Hexanone	0.232	0.212	8.6	89	0.00
44 TMP	1,3-Dichloropropane	0.400	0.406	-1.5	104	0.00
45 TMP	Tetrachloroethene	0.384	0.360	6.3	100	0.00
46 TMP	Dibromochloromethane	0.344	0.331	3.8	97	0.00

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080235.D  
 Acq On : 02 Aug 2023 10:36 pm  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:05 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 TMP 1,2-Dibromoethane (EDB)	0.348	0.323	7.2	100	0.00
48 TMP Chlorobenzene	0.977	0.959	1.8	99	0.00
49 TMP Ethylbenzene	1.510	1.500	0.7	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.343	0.318	7.3	93	0.00
51 TMP m,p-Xylene	0.632	0.611	3.3	99	0.00
52 TMP o-Xylene	0.623	0.599	3.9	98	0.00
53 TMP Styrene	0.964	0.954	1.0	101	0.00
54 TMP Isopropylbenzene	1.451	1.519	-4.7	104	0.00
55 TMP Bromoform	0.250	0.256	-2.4	110	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
57 S 4-Bromofluorobenzene	0.724	0.727	-0.4	101	0.00
58 TMP n-Propylbenzene	2.857	2.883	-0.9	103	0.00
59 TMP Bromobenzene	0.784	0.775	1.1	98	0.00
60 TMP 1,3,5-Trimethylbenzene	2.182	2.224	-1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.624	0.626	-0.3	97	0.00
62 TMP 1,2,3-Trichloropropane	0.452	0.469#	-3.8	101	0.00
63 TMP 2-Chlorotoluene	1.642	1.682	-2.4	101	0.00
64 TMP 4-Chlorotoluene	1.972	1.970	0.1	100	0.00
65 TMP tert-Butylbenzene	2.032	2.035	-0.1	98	0.00
66 TMP 1,2,4-Trimethylbenzene	2.285	2.295	-0.4	101	0.00
67 TMP sec-Butylbenzene	2.929	2.958	-1.0	100	0.00
68 TMP p-Isopropyltoluene	2.567	2.623	-2.2	102	0.00
69 TMP 1,3-Dichlorobenzene	1.480	1.499	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.470	1.437	2.2	95	0.00
71 TMP 1,2-Dichlorobenzene	1.415	1.403	0.8	98	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.120	0.118	1.7	101	0.00
73 TMP 1,2,4-Trichlorobenzene	1.062	1.064	-0.2	102	0.00
74 TMP Hexachlorobutadiene	0.574	0.596	-3.8	105	0.00
75 TMP Naphthalene	2.365	2.381	-0.7	101	0.00
76 TMP 1,2,3-Trichlorobenzene	0.983	0.996	-1.3	103	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080235.D  
 Acq On : 02 Aug 2023 10:36 pm  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:05 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	237756	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	194361	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	111755	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	64879	9.907	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.10%
30) 1,2-Dichloroethane-d4	4.35	102	15240	10.281	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	102.80%
35) Toluene-d8	5.97	98	230338	10.312	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	103.10%
57) 4-Bromofluorobenzene	8.37	95	81214	10.040	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.40%
Target Compounds						
						Qvalue
2) Ethanol	1.93	45	583	No Calib		
4) Dichlorodifluoromethane	1.08	85	195132	10.150	ppb	96
5) Chloromethane	1.21	50	167288	9.370	ppb	97
6] Vinyl chloride	1.29	62	149543	10.667	ppb	89
7) Bromomethane	1.52	94	108190	10.165	ppb	93
8] Chloroethane	1.59	64	71676	10.135	ppb	98
9) Trichlorofluoromethane	1.77	101	215039	9.856	ppb	97
10) 2-Propanol	2.39	45	2028	No Calib		
11) Acetone	2.25	58	44523	35.077	ppb	99
12] 1,1-Dichloroethene	2.18	96	99994	11.420	ppb	87
13) Hexane	3.05	57	83612	10.723	ppb	95
14) Methylene chloride	2.60	84	63065	10.281	ppb	95
15) t-Butyl alcohol (TBA)	2.72	59	30021	51.102	ppb	92
16] Methyl t-butyl ether (...)	2.83	73	154915	10.642	ppb	98
17] trans-1,2-Dichloroethene	2.82	96	69942	11.102	ppb	93
18) Diisopropyl ether (DIPE)	3.24	45	162989	10.281	ppb	94
19] 1,1-Dichloroethane	3.17	63	98215	10.404	ppb	97
20) Ethyl t-butyl ether (E...)	3.54	87	69805	10.139	ppb	89
21) 2,2-Dichloropropane	3.66	77	61533	10.440	ppb	95
22] cis-1,2-Dichloroethene	3.66	96	73540	10.140	ppb	95
23) Chloroform	3.94	83	102514	9.942	ppb	100
24) 2-Butanone (MEK)	3.69	43	137577	39.125	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	139948	10.297	ppb	96
26] 1,2-Dichloroethane (EDC)	4.41	62	72550	10.666	ppb	99
27] 1,1,1-Trichloroethane	4.07	97	98764	9.910	ppb	98
28) 1,1-Dichloropropene	4.21	75	76458	9.655	ppb	97
29) Carbon tetrachloride	4.21	117	89237	9.732	ppb	99
31] Benzene	4.39	78	226233	10.685	ppb	98
32] Trichloroethene	4.93	95	75692	10.760	ppb	79
33) 1,2-Dichloropropane	5.12	63	52592	9.980	ppb	99
34) Bromodichloromethane	5.37	83	71111	9.967	ppb	95
36) Dibromomethane	5.22	93	40049	10.215	ppb	95
37) 4-Methyl-2-pentanone	5.90	85	55345	51.804	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	85613	10.202	ppb	97
40] Toluene	6.03	92	158986	10.377	ppb	100

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080235.D  
 Acq On : 02 Aug 2023 10:36 pm  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS11

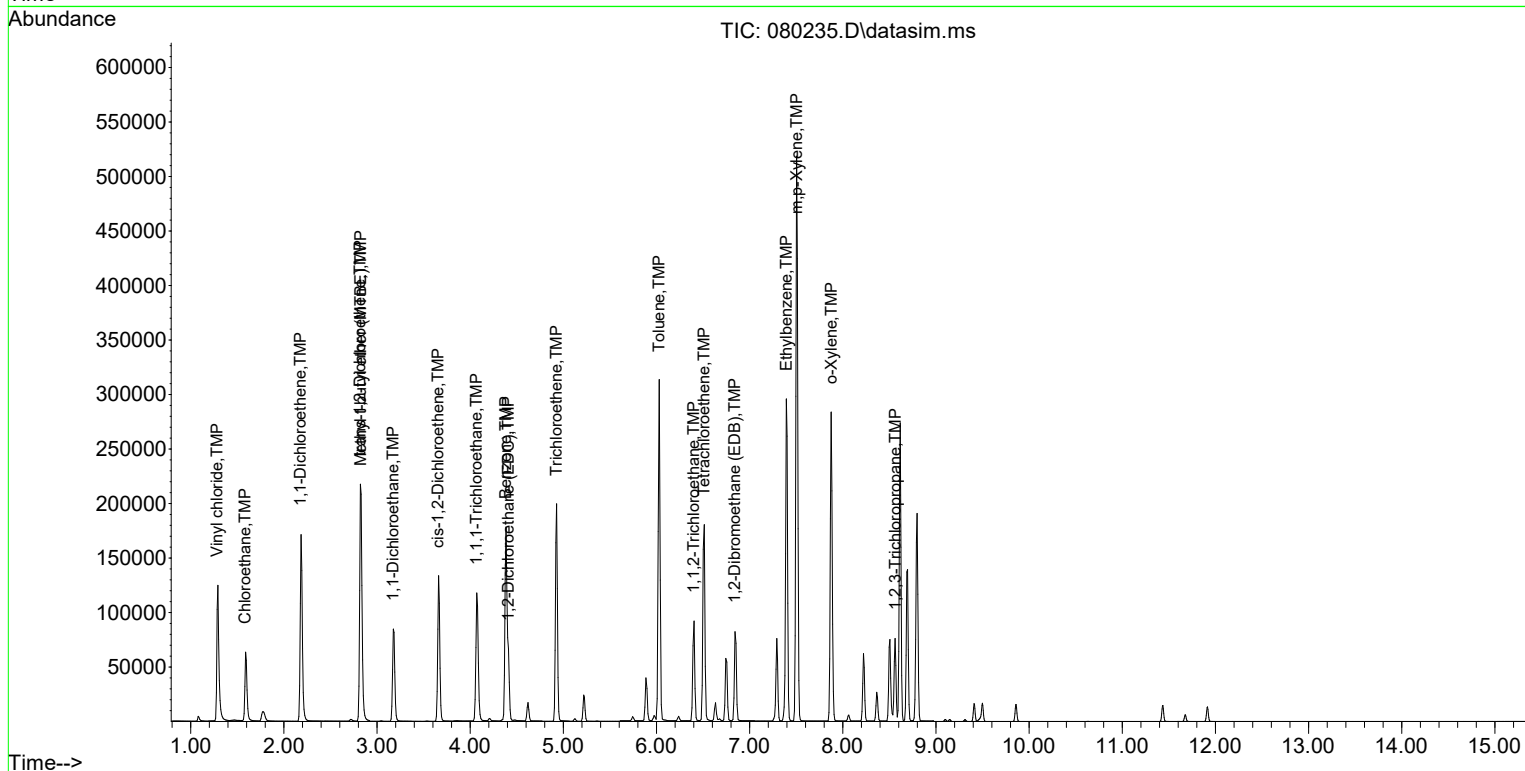
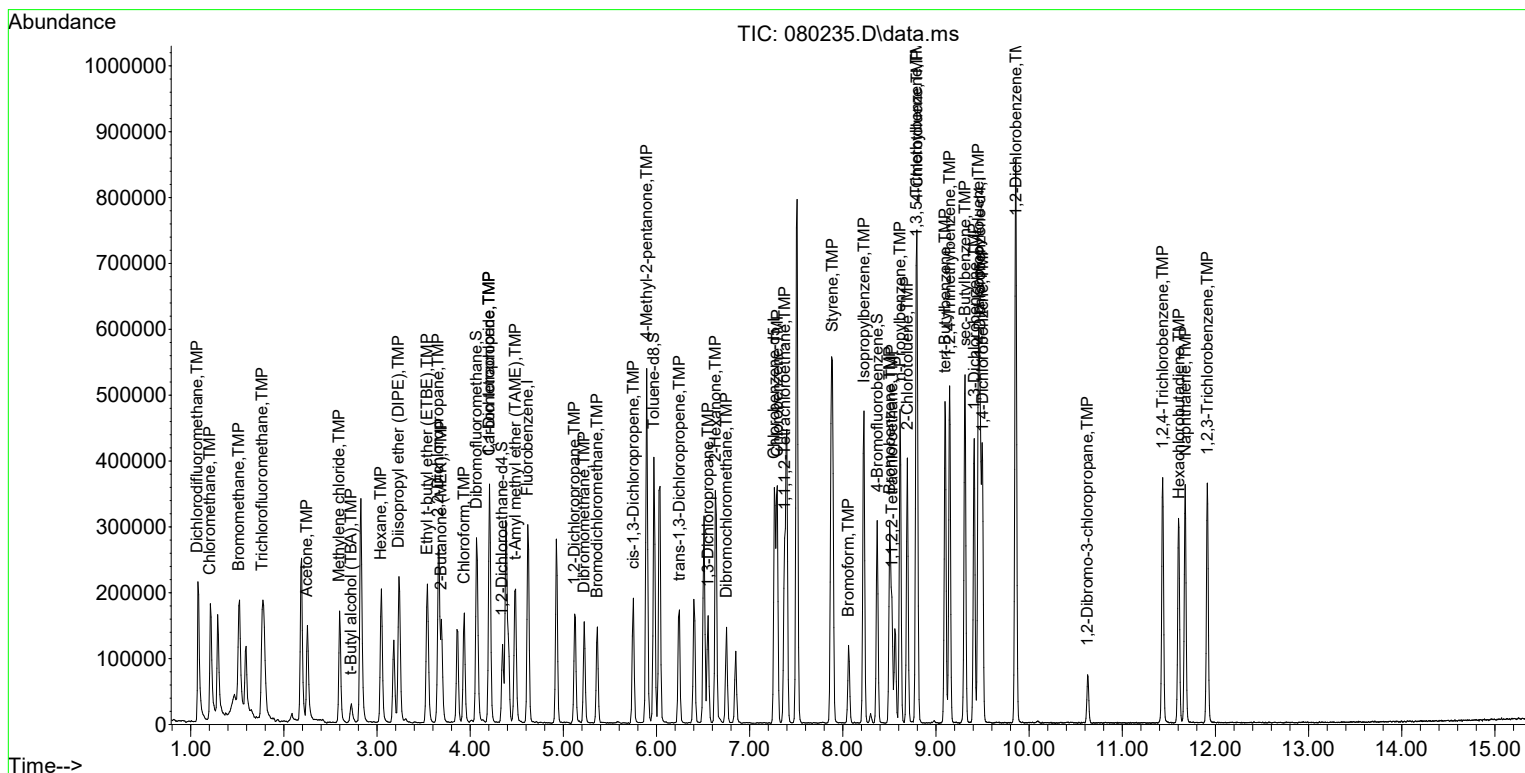
Quant Time: Aug 03 09:54:05 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) trans-1,3-Dichloropropene	6.25	75	78674	10.388	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	46335	9.931	ppb	98
43) 2-Hexanone	6.63	43	205540	45.492	ppb	97
44] 1,3-Dichloropropane	6.55	76	78879	10.146	ppb	97
45] Tetrachloroethene	6.51	164	69884	10.439	ppb	100
46) Dibromochloromethane	6.75	129	64241	9.621	ppb	99
47] 1,2-Dibromoethane (EDB)	6.84	107	62783	10.413	ppb	99
48) Chlorobenzene	7.30	112	186443	9.818	ppb	98
49] Ethylbenzene	7.39	91	291537	10.626	ppb	100
50] 1,1,1,2-Tetrachloroethane	7.38	131	61749	9.276	ppb	95
51] m,p-Xylene	7.50	106	237653	20.433	ppb	99
52] o-Xylene	7.87	106	116389	10.011	ppb	99
53) Styrene	7.89	104	185462	9.895	ppb	99
54) Isopropylbenzene	8.23	105	295263	10.471	ppb	98
55) Bromoform	8.06	173	49804	10.249	ppb	98
58) n-Propylbenzene	8.61	91	322227	10.092	ppb	98
59) Bromobenzene	8.50	156	86564	9.878	ppb	97
60] 1,3,5-Trimethylbenzene	8.79	105	248578	10.192	ppb	98
61] 1,1,2,2-Tetrachloroethane	8.53	83	69984	10.030	ppb	97
62] 1,2,3-Trichloropropane	8.56	75	52439	10.376	ppb	98
63) 2-Chlorotoluene	8.69	91	187945	10.245	ppb	98
64) 4-Chlorotoluene	8.80	91	220123	9.988	ppb	99
65) tert-Butylbenzene	9.10	119	227460	10.014	ppb	95
66] 1,2,4-Trimethylbenzene	9.15	105	256453	10.043	ppb	100
67) sec-Butylbenzene	9.31	105	330566	10.099	ppb	97
68) p-Isopropyltoluene	9.46	119	293156	10.221	ppb	98
69] 1,3-Dichlorobenzene	9.41	146	167547	10.129	ppb	97
70] 1,4-Dichlorobenzene	9.50	146	160589	9.775	ppb	98
71] 1,2-Dichlorobenzene	9.86	146	156778	9.912	ppb	99
72] 1,2-Dibromo-3-chloropr...	10.63	75	13186	9.797	ppb	86
73] 1,2,4-Trichlorobenzene	11.43	180	118876	10.014	ppb	98
74) Hexachlorobutadiene	11.61	225	66621	10.384	ppb	92
75) Naphthalene	11.68	128	266121	10.070	ppb	99
76] 1,2,3-Trichlorobenzene	11.91	180	111340	10.135	ppb	100

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

Data Path : D:\Proc\_GCMS11\08-02-23\  
 Data File : 080235.D  
 Acq On : 02 Aug 2023 10:36 pm  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 03 09:54:05 2023  
 Quant Method : D:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 09:44:33 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M





**EPA 8260D**  
**CCV Summaries**

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 06:58 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:13 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	79716	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	63853	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	32246	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	23073	10.667	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	106.70%		
30) 1,2-Dichloroethane-d4	4.45	102	4929	10.290	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	102.90%		
35) Toluene-d8	6.10	98	91818	10.367	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	103.70%		
57) 4-Bromofluorobenzene	8.50	95	27146	9.347	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	93.50%		
Target Compounds							
2) Ethanol	2.33	45	470	No Calib			Qvalue
4) Dichlorodifluoromethane	1.12	85	79789	11.046	ppb	99	
5) Chloromethane	1.26	50	76818	10.154	ppb	96	
6] Vinyl chloride	1.33	62	61421	10.023	ppb	99	
7) Bromomethane	1.58	94	32444	10.803	ppb	92	
8] Chloroethane	1.65	64	25379	9.869	ppb	99	
9) Trichlorofluoromethane	1.85	101	105683	11.072	ppb	94	
10) 2-Propanol	2.33	45	470	No Calib			
11) Acetone	2.33	58	16128	51.108	ppb	97	
12] 1,1-Dichloroethene	2.27	96	22990	10.662	ppb	95	
13) Hexane	3.16	57	32218	10.264	ppb	98	
14) Methylene chloride	2.69	84	19680	10.135	ppb	92	
15) t-Butyl alcohol (TBA)	2.82	59	13138	50.704	ppb	95	
16] Methyl t-butyl ether (...)	2.93	73	50514	10.102	ppb	95	
17] trans-1,2-Dichloroethene	2.92	96	22068	10.867	ppb	# 82	
18) Diisopropyl ether (DIPE)	3.35	45	75511	10.119	ppb	94	
19] 1,1-Dichloroethane	3.27	63	39014	10.071	ppb	96	
20) Ethyl t-butyl ether (E...)	3.66	87	22460	10.684	ppb	# 88	
21) 2,2-Dichloropropane	3.76	77	28071	13.105	ppb	90	
22] cis-1,2-Dichloroethene	3.77	96	23463	10.193	ppb	98	
23) Chloroform	4.04	83	38011	10.500	ppb	95	
24) 2-Butanone (MEK)	3.79	43	75572	49.223	ppb	98	
25) t-Amyl methyl ether (T...)	4.61	73	48985	10.348	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.52	62	33517	11.089	ppb	100	
27] 1,1,1-Trichloroethane	4.19	97	35794	11.067	ppb	98	
28) 1,1-Dichloropropene	4.33	75	28891	10.557	ppb	96	
29) Carbon tetrachloride	4.33	117	31225	11.050	ppb	94	
31] Benzene	4.50	78	80757	10.433	ppb	99	
32] Trichloroethene	5.04	95	24926	10.498	ppb	97	
33) 1,2-Dichloropropane	5.24	63	20795	9.685	ppb	100	
34) Bromodichloromethane	5.48	83	26814	10.285	ppb	97	
36) Dibromomethane	5.34	93	14478	10.466	ppb	95	

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 06:58 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

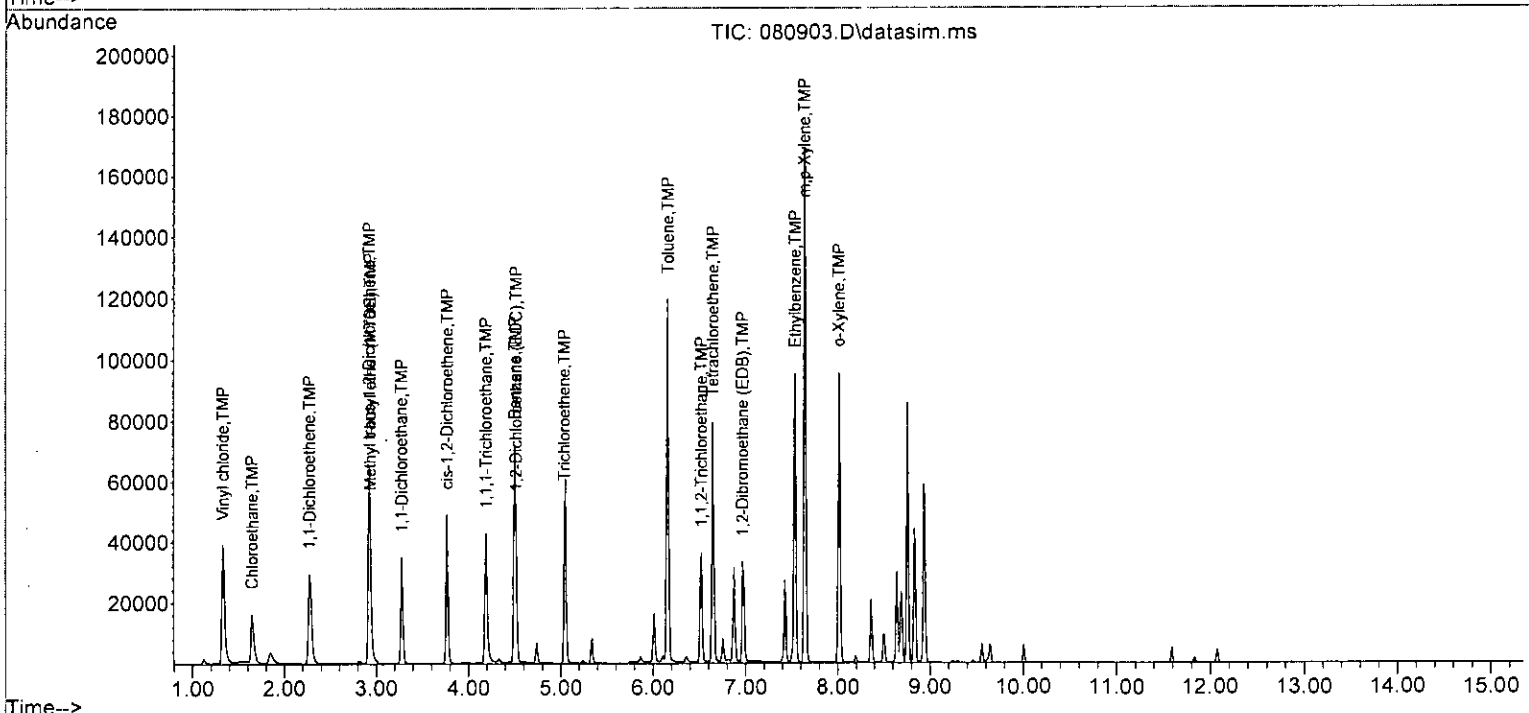
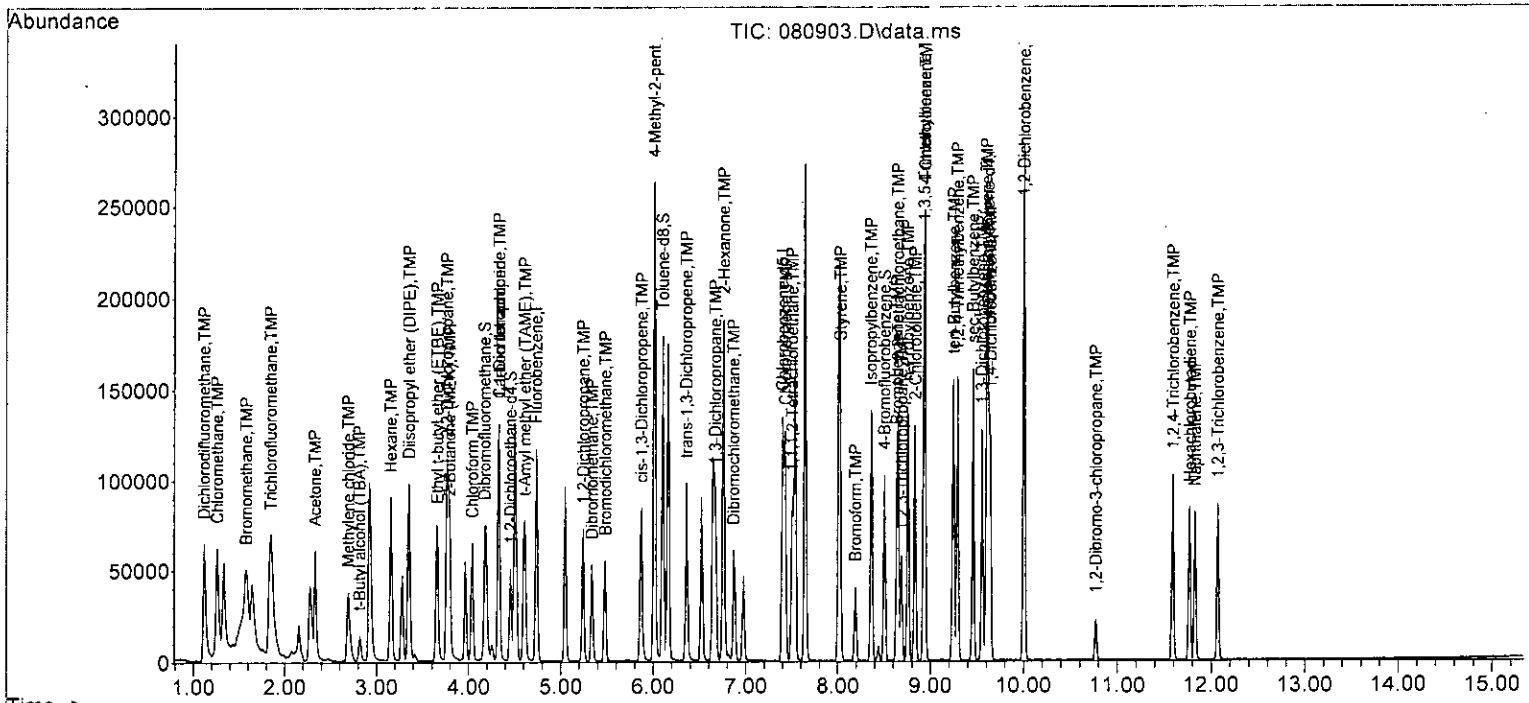
Quant Time: Aug 10 08:05:13 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	23280	51.730	ppb	91
38) cis-1,3-Dichloropropene	5.87	75	38154	10.649	ppb	94
40] Toluene	6.16	92	63798	10.133	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	35661	10.592	ppb	97
42] 1,1,2-Trichloroethane	6.52	83	19777	9.576	ppb #	70
43) 2-Hexanone	6.76	43	131114	45.550	ppb	97
44) 1,3-Dichloropropane	6.67	76	35204	9.643	ppb	95
45] Tetrachloroethene	6.64	164	26970	10.823	ppb	97
46) Dibromochloromethane	6.87	129	29499	10.634	ppb	97
47] 1,2-Dibromoethane (EDB)	6.97	107	27178	10.142	ppb	97
48) Chlorobenzene	7.43	112	58560	9.854	ppb	97
49] Ethylbenzene	7.54	91	97222	10.286	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	22669	10.788	ppb	97
51] m,p-Xylene	7.64	106	77559	20.973	ppb	98
52] o-Xylene	8.01	106	37215	10.215	ppb	100
53) Styrene	8.03	104	57375	9.913	ppb	99
54) Isopropylbenzene	8.36	105	86667	9.930	ppb	99
55) Bromoform	8.19	173	16482	10.804	ppb	97
58) n-Propylbenzene	8.75	91	103658	9.666	ppb	99
59) Bromobenzene	8.64	156	25393	9.669	ppb	87
60) 1,3,5-Trimethylbenzene	8.93	105	73542	9.869	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.65	83	23649	9.555	ppb	97
62) 1,2,3-Trichloropropane	8.69	75	17955	8.464	ppb	98
63) 2-Chlorotoluene	8.84	91	59986	9.552	ppb	97
64) 4-Chlorotoluene	8.94	91	72086	9.904	ppb	100
65) tert-Butylbenzene	9.25	119	68272	10.023	ppb	97
66) 1,2,4-Trimethylbenzene	9.29	105	76915	9.760	ppb	99
67) sec-Butylbenzene	9.45	105	98602	9.837	ppb	98
68) p-Isopropyltoluene	9.60	119	84348	10.081	ppb	97
69) 1,3-Dichlorobenzene	9.55	146	46888	10.075	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	47076	9.894	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	43351	9.804	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.77	75	4140	8.808	ppb	83
73) 1,2,4-Trichlorobenzene	11.59	180	28297	9.668	ppb	98
74) Hexachlorobutadiene	11.77	225	16016	10.166	ppb	95
75) Naphthalene	11.82	128	57837	8.391	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	24120	9.060	ppb	99

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

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 06:58 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:13 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



Data Path : S:\Proc\_GCMS13\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 06:58 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:13 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	83	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	10.667	-6.7	86	0.01
4 TMP	Dichlorodifluoromethane	10.000	11.046	-10.5	91	0.01
5 TMP	Chloromethane	10.000	10.154	-1.5	87	0.01
6 TMP	Vinyl chloride	10.000	10.023	-0.2	87	0.01
7 TMP	Bromomethane	10.000	10.803	-8.0	91	0.01
8 TMP	Chloroethane	10.000	9.869	1.3	89	0.01
9 TMP	Trichlorofluoromethane	10.000	11.072	-10.7	91	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	50.000	51.108	-2.2	91	0.01
12 TMP	1,1-Dichloroethene	10.000	10.662	-6.6	86	0.01
13 TMP	Hexane	10.000	10.264	-2.6	84	0.01
14 TMP	Methylene chloride	10.000	10.135	-1.3	83	0.01
15 TMP	t-Butyl alcohol (TBA)	50.000	50.704	-1.4	89	0.01
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.102	-1.0	85	0.01
17 TMP	trans-1,2-Dichloroethene	10.000	10.867	-8.7	86	0.01
18 TMP	Diisopropyl ether (DIPE)	10.000	10.119	-1.2	84	0.01
19 TMP	1,1-Dichloroethane	10.000	10.071	-0.7	84	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.684	-6.8	88	0.01
21 TMP	2,2-Dichloropropane	10.000	13.105	-31.1#	113	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.193	-1.9	85	0.01
23 TMP	Chloroform	10.000	10.500	-5.0	87	0.01
24 TMP	2-Butanone (MEK)	50.000	49.223	1.6	86	0.01
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.348	-3.5	85	0.01
26 TMP	1,2-Dichloroethane (EDC)	10.000	11.089	-10.9	86	0.00
27 TMP	1,1,1-Trichloroethane	10.000	11.067	-10.7	91	0.00
28 TMP	1,1-Dichloropropene	10.000	10.557	-5.6	86	0.01
29 TMP	Carbon tetrachloride	10.000	11.050	-10.5	91	0.01
30 S	1,2-Dichloroethane-d4	10.000	10.290	-2.9	81	0.00
31 TMP	Benzene	10.000	10.433	-4.3	82	0.01
32 TMP	Trichloroethene	10.000	10.498	-5.0	83	0.00
33 TMP	1,2-Dichloropropane	10.000	9.685	3.1	81	0.01
34 TMP	Bromodichloromethane	10.000	10.285	-2.9	85	0.01
35 S	Toluene-d8	10.000	10.367	-3.7	85	0.00
36 TMP	Dibromomethane	10.000	10.466	-4.7	87	0.00
37 TMP	4-Methyl-2-pentanone	50.000	51.730	-3.5	84	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	10.649	-6.5	88	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	88	0.00
40 TMP	Toluene	10.000	10.133	-1.3	84	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	10.592	-5.9	93	0.00
42 TMP	1,1,2-Trichloroethane	10.000	9.576	4.2	83	0.01
43 TMP	2-Hexanone	50.000	45.550	8.9	79	0.00

Evaluate Continuing Calibration Report

Data Path : S:\Proc\_GCMS13\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 06:58 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:13 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	10.000	9.643	3.6	85	0.00
45	TMP Tetrachloroethene	10.000	10.823	-8.2	90	0.00
46	TMP Dibromochloromethane	10.000	10.634	-6.3	96	0.00
47	TMP 1,2-Dibromoethane (EDB)	10.000	10.142	-1.4	87	0.00
48	TMP Chlorobenzene	10.000	9.854	1.5	85	0.00
49	TMP Ethylbenzene	10.000	10.286	-2.9	84	0.00
50	TMP 1,1,1,2-Tetrachloroethane	10.000	10.788	-7.9	95	0.00
51	TMP m,p-Xylene	20.000	20.973	-4.9	86	0.00
52	TMP o-Xylene	10.000	10.215	-2.1	86	0.00
53	TMP Styrene	10.000	9.913	0.9	86	0.00
54	TMP Isopropylbenzene	10.000	9.930	0.7	87	0.00
55	TMP Bromoform	10.000	10.804	-8.0	101	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	89	0.00
57	S 4-Bromofluorobenzene	10.000	9.347	6.5	85	0.00
58	TMP n-Propylbenzene	10.000	9.666	3.3	85	-0.01
59	TMP Bromobenzene	10.000	9.669	3.3	87	-0.01
60	TMP 1,3,5-Trimethylbenzene	10.000	9.869	1.3	85	0.00
61	TMP 1,1,2,2-Tetrachloroethane	10.000	9.555	4.5	88	0.00
62	TMP 1,2,3-Trichloropropane	10.000	8.464	15.4	83	0.00
63	TMP 2-Chlorotoluene	10.000	9.552	4.5	83	0.00
64	TMP 4-Chlorotoluene	10.000	9.904	1.0	87	0.00
65	TMP tert-Butylbenzene	10.000	10.023	-0.2	89	0.00
66	TMP 1,2,4-Trimethylbenzene	10.000	9.760	2.4	87	0.00
67	TMP sec-Butylbenzene	10.000	9.837	1.6	88	0.00
68	TMP p-Isopropyltoluene	10.000	10.081	-0.8	89	0.00
69	TMP 1,3-Dichlorobenzene	10.000	10.075	-0.7	90	0.00
70	TMP 1,4-Dichlorobenzene	10.000	9.894	1.1	90	0.00
71	TMP 1,2-Dichlorobenzene	10.000	9.804	2.0	88	0.00
72	TMP 1,2-Dibromo-3-chloropropane	10.000	8.808	11.9	89	0.00
73	TMP 1,2,4-Trichlorobenzene	10.000	9.668	3.3	90	0.00
74	TMP Hexachlorobutadiene	10.000	10.166	-1.7	90	0.00
75	TMP Naphthalene	10.000	8.391	16.1	80	0.00
76	TMP 1,2,3-Trichlorobenzene	10.000	9.060	9.4	83	0.00

(#) = Out of Range

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

Data Path : S:\Proc\_GCMS13\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 06:58 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:13 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	83	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.271	0.289	-6.6	86	0.01
4 TMP	Dichlorodifluoromethane	0.906	1.001	-10.5	91	0.01
5 TMP	Chloromethane	0.949	0.964	-1.6	87	0.01
6 TMP	Vinyl chloride	0.769	0.770	-0.1	87	0.01
7 TMP	Bromomethane	0.377	0.407	-8.0	91	0.01
8 TMP	Chloroethane	0.323	0.318	1.5	89	0.01
9 TMP	Trichlorofluoromethane	1.197	1.326	-10.8	91	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.040	0.040	0.0	91	0.01
12 TMP	1,1-Dichloroethene	0.288	0.288	0.0	86	0.01
13 TMP	Hexane	0.394	0.404	-2.5	84	0.01
14 TMP	Methylene chloride	0.244	0.247	-1.2	83	0.01
15 TMP	t-Butyl alcohol (TBA)	0.033	0.033	0.0	89	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.634	-1.1	85	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.277	1.8	86	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.947	-1.2	84	0.01
19 TMP	1,1-Dichloroethane	0.486	0.489	-0.6	84	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.282	-6.8	88	0.01
21 TMP	2,2-Dichloropropane	0.269	0.352	-30.9#	113	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.294	-1.7	85	0.01
23 TMP	Chloroform	0.454	0.477	-5.1	87	0.01
24 TMP	2-Butanone (MEK)	0.193	0.190	1.6	86	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.614	-3.4	85	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.420	9.1	86	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.449	-10.6	91	0.00
28 TMP	1,1-Dichloropropene	0.343	0.362	-5.5	86	0.01
29 TMP	Carbon tetrachloride	0.354	0.392	-10.7	91	0.01
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	81	0.00
31 TMP	Benzene	1.042	1.013	2.8	82	0.01
32 TMP	Trichloroethene	0.326	0.313	4.0	83	0.00
33 TMP	1,2-Dichloropropane	0.269	0.261	3.0	81	0.01
34 TMP	Bromodichloromethane	0.327	0.336	-2.8	85	0.01
35 S	Toluene-d8	1.111	1.152	-3.7	85	0.00
36 TMP	Dibromomethane	0.174	0.182	-4.6	87	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.058	-3.6	84	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.479	-6.7	88	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
40 TMP	Toluene	1.092	0.999	8.5	84	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.558	-5.9	93	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.310	4.0	83	0.01
43 TMP	2-Hexanone	0.451	0.411	8.9	79	0.00

Evaluate Continuing Calibration Report

Data Path : S:\Proc\_GCMS13\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 06:58 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:13 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.551	3.7	85	0.00
45 TMP Tetrachloroethene	0.446	0.422	5.4	90	0.00
46 TMP Dibromochloromethane	0.434	0.462	-6.5	96	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.426	9.2	87	0.00
48 TMP Chlorobenzene	0.931	0.917	1.5	85	0.00
49 TMP Ethylbenzene	1.609	1.523	5.3	84	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.355	-7.9	95	0.00
51 TMP m,p-Xylene	0.630	0.607	3.7	86	0.00
52 TMP o-Xylene	0.606	0.583	3.8	86	0.00
53 TMP Styrene	0.906	0.899	0.8	86	0.00
54 TMP Isopropylbenzene	1.367	1.357	0.7	87	0.00
55 TMP Bromoform	0.239	0.258	-7.9	101	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
57 S 4-Bromofluorobenzene	0.901	0.842	6.5	85	0.00
58 TMP n-Propylbenzene	3.326	3.215	3.3	85	-0.01
59 TMP Bromobenzene	0.814	0.787	3.3	87	-0.01
60 TMP 1,3,5-Trimethylbenzene	2.311	2.281	1.3	85	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.733	4.6	88	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.557	15.3	83	0.00
63 TMP 2-Chlorotoluene	1.947	1.860	4.5	83	0.00
64 TMP 4-Chlorotoluene	2.257	2.236	0.9	87	0.00
65 TMP tert-Butylbenzene	2.112	2.117	-0.2	89	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.385	2.4	87	0.00
67 TMP sec-Butylbenzene	3.109	3.058	1.6	88	0.00
68 TMP p-Isopropyltoluene	2.595	2.616	-0.8	89	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.454	-0.8	90	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.460	1.0	90	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.344	2.0	88	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.128	12.3	89	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.878	3.3	90	0.00
74 TMP Hexachlorobutadiene	0.489	0.497	-1.6	90	0.00
75 TMP Naphthalene	2.138	1.794	16.1	80	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.748	9.4	83	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 07:07 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:08 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.62	96	239676	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	191861	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.47	152	113393	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	66059	10.006	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.10%		
30) 1,2-Dichloroethane-d4	4.35	102	15757	10.544	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	105.40%		
35) Toluene-d8	5.97	98	230900	10.254	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	102.50%		
57) 4-Bromofluorobenzene	8.37	95	81106	9.882	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	98.80%		
Target Compounds							
							Qvalue
2) Ethanol	1.94	45	590	No Calib	#		
4) Dichlorodifluoromethane	1.09	85	196640	10.146	ppb	93	
5) Chloromethane	1.22	50	186509	10.363	ppb	97	
6] Vinyl chloride	1.30	62	157347	11.120	ppb	90	
7) Bromomethane	1.53	94	116490	10.888	ppb	95	
8] Chloroethane	1.61	64	75143	10.541	ppb	97	
9) Trichlorofluoromethane	1.78	101	216898	9.861	ppb	96	
10) 2-Propanol	2.39	45	2025	No Calib			
11) Acetone	2.26	58	40756	31.852	ppb	94	
12] 1,1-Dichloroethene	2.19	96	92438	10.471	ppb	100	
13) Hexane	3.05	57	77220	9.824	ppb	94	
14) Methylene chloride	2.61	84	63539	10.275	ppb	94	
15) t-Butyl alcohol (TBA)	2.72	59	29632	50.036	ppb	81	
16] Methyl t-butyl ether (...)	2.83	73	148854	10.153	ppb	96	
17] trans-1,2-Dichloroethene	2.83	96	67910	10.690	ppb	97	
18) Diisopropyl ether (DIPE)	3.24	45	154117	9.644	ppb	95	
19] 1,1-Dichloroethane	3.18	63	96768	10.169	ppb	97	
20) Ethyl t-butyl ether (E...)	3.54	87	67930	9.788	ppb	98	
21) 2,2-Dichloropropane	3.66	77	69816	11.771	ppb	93	
22] cis-1,2-Dichloroethene	3.66	96	73809	10.096	ppb	91	
23) Chloroform	3.94	83	103503	9.957	ppb	99	
24) 2-Butanone (MEK)	3.70	43	127965	36.100	ppb	99	
25) t-Amyl methyl ether (T...)	4.49	73	138172	10.091	ppb	94	
26] 1,2-Dichloroethane (EDC)	4.41	62	72509	10.574	ppb	99	
27] 1,1,1-Trichloroethane	4.07	97	100472	10.000	ppb	96	
28) 1,1-Dichloropropene	4.21	75	76815	9.623	ppb	99	
29) Carbon tetrachloride	4.21	117	88695	9.596	ppb	98	
31] Benzene	4.39	78	227787	10.672	ppb	97	
32] Trichloroethene	4.93	95	71973	10.148	ppb	79	
33) 1,2-Dichloropropane	5.12	63	53510	10.072	ppb	96	
34) Bromodichloromethane	5.37	83	70396	9.787	ppb	96	
36) Dibromomethane	5.22	93	39160	9.908	ppb	96	

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 07:07 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

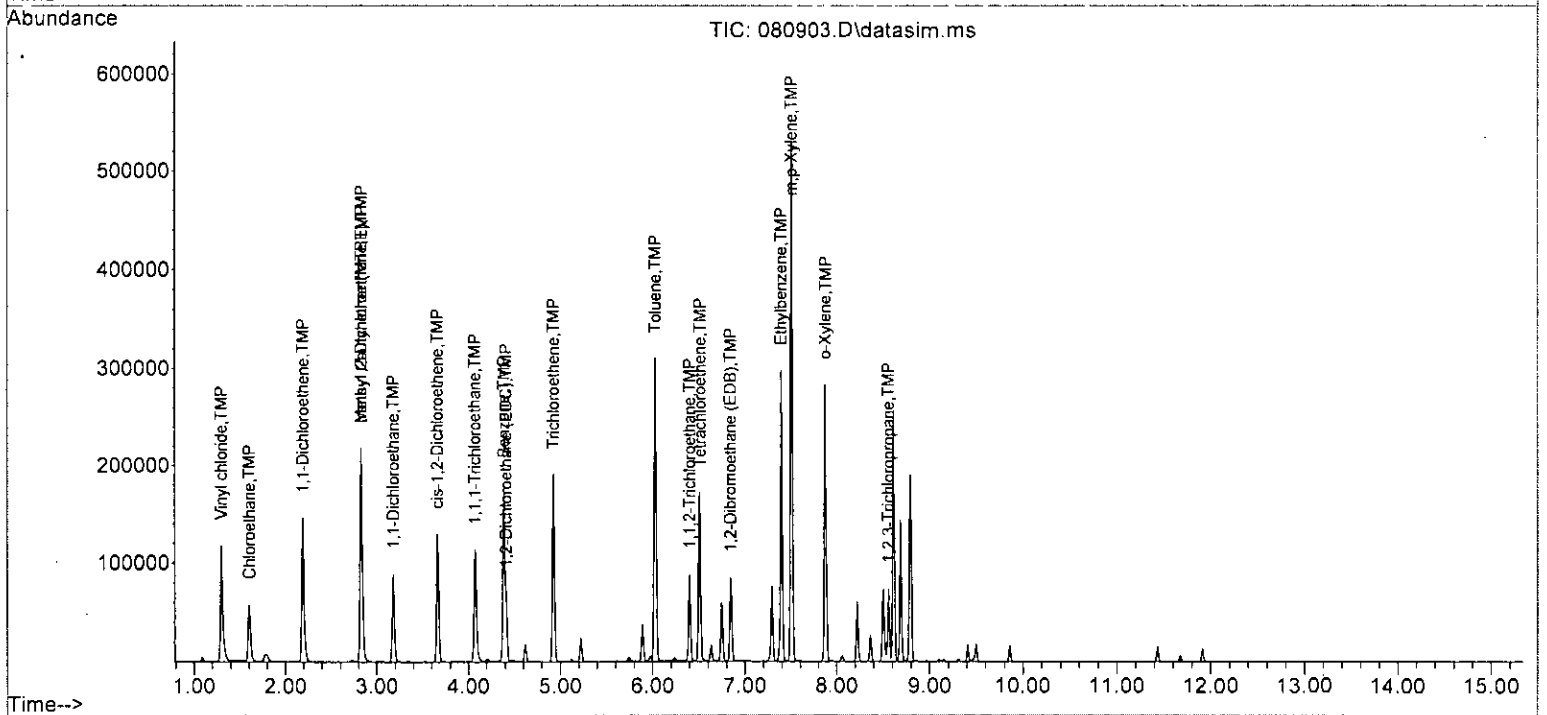
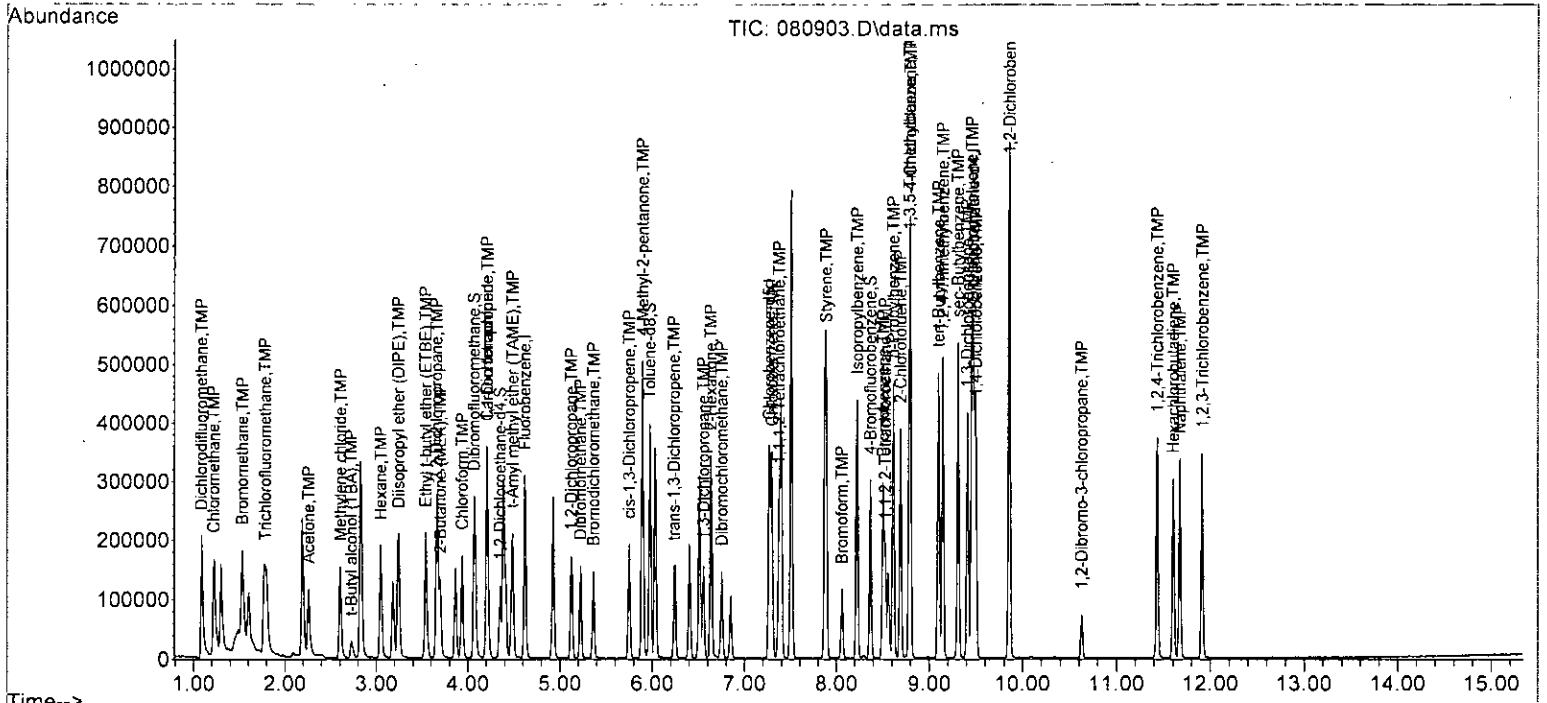
Quant Time: Aug 10 09:04:08 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	54229	50.353	ppb	99
38) cis-1,3-Dichloropropene	5.75	75	84140	9.946	ppb	96
40] Toluene	6.03	92	156624	10.356	ppb	100
41) trans-1,3-Dichloropropene	6.24	75	76631	10.250	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	44955	9.761	ppb	99
43) 2-Hexanone	6.63	43	199136	44.646	ppb	96
44) 1,3-Dichloropropane	6.55	76	76885	10.018	ppb	99
45] Tetrachloroethene	6.51	164	68513	10.367	ppb	100
46) Dibromochloromethane	6.75	129	67179	10.192	ppb	88
47] 1,2-Dibromoethane (EDB)	6.84	107	61295	10.298	ppb	100
48) Chlorobenzene	7.30	112	182428	9.732	ppb	98
49] Ethylbenzene	7.39	91	282560	10.433	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	64993	9.890	ppb	96
51] m,p-Xylene	7.50	106	235705	20.530	ppb	98
52] o-Xylene	7.88	106	116462	10.148	ppb	97
53) Styrene	7.89	104	181882	9.831	ppb	99
54) Isopropylbenzene	8.23	105	272373	9.785	ppb	97
55) Bromoform	8.06	173	49849	10.392	ppb	93
58) n-Propylbenzene	8.61	91	307655	9.496	ppb	98
59) Bromobenzene	8.50	156	82221	9.247	ppb	94
60) 1,3,5-Trimethylbenzene	8.79	105	242468	9.798	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	70659	9.980	ppb	99
62] 1,2,3-Trichloropropane	8.56	75	50509	9.849	ppb	97
63) 2-Chlorotoluene	8.69	91	185973	9.991	ppb	99
64) 4-Chlorotoluene	8.80	91	216445	9.679	ppb	94
65) tert-Butylbenzene	9.10	119	227522	9.872	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	253925	9.800	ppb	96
67) sec-Butylbenzene	9.31	105	328752	9.899	ppb	98
68) p-Isopropyltoluene	9.46	119	284134	9.763	ppb	97
69) 1,3-Dichlorobenzene	9.41	146	164493	9.801	ppb	99
70) 1,4-Dichlorobenzene	9.50	146	165232	9.912	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	158060	9.849	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	12764	9.347	ppb	86
73) 1,2,4-Trichlorobenzene	11.43	180	113465	9.420	ppb	94
74) Hexachlorobutadiene	11.60	225	63501	9.754	ppb	99
75) Naphthalene	11.68	128	244842	9.131	ppb	98
76) 1,2,3-Trichlorobenzene	11.91	180	103921	9.323	ppb	98

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

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 07:07 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:08 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 07:07 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:08 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	98	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	241	0.00
3 S	Dibromofluoromethane	10.000	10.006	-0.1	99	0.00
4 TMP	Dichlorodifluoromethane	10.000	10.146	-1.5	97	0.00
5 TMP	Chloromethane	10.000	10.363	-3.6	103	0.00
6 TMP	Vinyl chloride	10.000	11.120	-11.2	102	0.02
7 TMP	Bromomethane	10.000	10.888	-8.9	104	0.00
8 TMP	Chloroethane	10.000	10.541	-5.4	101	0.02
9 TMP	Trichlorofluoromethane	10.000	9.861	1.4	100	0.02
10 TMP	2-Propanol	-1.000	0.000	0.0	101	0.02
11 TMP	Acetone	50.000	31.852	36.3#	64	0.02
12 TMP	1,1-Dichloroethene	10.000	10.471	-4.7	99	0.00
13 TMP	Hexane	10.000	9.824	1.8	102	0.00
14 TMP	Methylene chloride	10.000	10.275	-2.8	102	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	50.036	-0.1	99	0.00
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.153	-1.5	99	0.00
17 TMP	trans-1,2-Dichloroethene	10.000	10.690	-6.9	99	0.00
18 TMP	Diisopropyl ether (DIPE)	10.000	9.644	3.6	97	0.00
19 TMP	1,1-Dichloroethane	10.000	10.169	-1.7	98	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	9.788	2.1	98	0.00
21 TMP	2,2-Dichloropropane	10.000	11.771	-17.7	106	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.096	-1.0	98	0.00
23 TMP	Chloroform	10.000	9.957	0.4	101	0.00
24 TMP	2-Butanone (MEK)	50.000	36.100	27.8#	70	0.00
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.091	-0.9	101	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	10.574	-5.7	98	0.00
27 TMP	1,1,1-Trichloroethane	10.000	10.000	0.0	98	0.00
28 TMP	1,1-Dichloropropene	10.000	9.623	3.8	102	0.00
29 TMP	Carbon tetrachloride	10.000	9.596	4.0	97	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.544	-5.4	107	0.00
31 TMP	Benzene	10.000	10.672	-6.7	99	0.00
32 TMP	Trichloroethene	10.000	10.148	-1.5	96	0.00
33 TMP	1,2-Dichloropropane	10.000	10.072	-0.7	101	0.00
34 TMP	Bromodichloromethane	10.000	9.787	2.1	95	0.00
35 S	Toluene-d8	10.000	10.254	-2.5	102	0.00
36 TMP	Dibromomethane	10.000	9.908	0.9	100	0.00
37 TMP	4-Methyl-2-pentanone	50.000	50.353	-0.7	101	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	9.946	0.5	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP	Toluene	10.000	10.356	-3.6	99	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	10.250	-2.5	106	0.00
42 TMP	1,1,2-Trichloroethane	10.000	9.761	2.4	99	0.00
43 TMP	2-Hexanone	50.000	44.646	10.7	86	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 07:07 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:08 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.018	-0.2	101	0.00
45 TMP Tetrachloroethene	10.000	10.367	-3.7	98	0.00
46 TMP Dibromochloromethane	10.000	10.192	-1.9	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.298	-3.0	98	0.00
48 TMP Chlorobenzene	10.000	9.732	2.7	96	0.00
49 TMP Ethylbenzene	10.000	10.433	-4.3	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.890	1.1	98	0.00
51 TMP m,p-Xylene	20.000	20.530	-2.7	99	0.00
52 TMP o-Xylene	10.000	10.148	-1.5	98	0.00
53 TMP Styrene	10.000	9.831	1.7	99	0.00
54 TMP Isopropylbenzene	10.000	9.785	2.1	96	0.00
55 TMP Bromoform	10.000	10.392	-3.9	110	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	10.000	9.882	1.2	101	0.00
58 TMP n-Propylbenzene	10.000	9.496	5.0	98	0.00
59 TMP Bromobenzene	10.000	9.247	7.5	93	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.798	2.0	98	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.980	0.2	98	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.849	1.5	97	0.00
63 TMP 2-Chlorotoluene	10.000	9.991	0.1	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.679	3.2	98	0.00
65 TMP tert-Butylbenzene	10.000	9.872	1.3	98	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.800	2.0	100	0.00
67 TMP sec-Butylbenzene	10.000	9.899	1.0	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.763	2.4	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.801	2.0	98	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.912	0.9	98	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.849	1.5	98	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.347	6.5	98	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.420	5.8	98	0.00
74 TMP Hexachlorobutadiene	10.000	9.754	2.5	100	0.00
75 TMP Naphthalene	10.000	9.131	8.7	93	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.323	6.8	96	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 07:07 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:08 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	98	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	241#	0.00
3 S	Dibromofluoromethane	0.275	0.276	-0.4	99	0.00
4 TMP	Dichlorodifluoromethane	0.809	0.820	-1.4	97	0.00
5 TMP	Chloromethane	0.751	0.778	-3.6	103	0.00
6 TMP	Vinyl chloride	0.590	0.656	-11.2	102	0.02
7 TMP	Bromomethane	0.446	0.486	-9.0	104	0.00
8 TMP	Chloroethane	0.297	0.314	-5.7	101	0.02
9 TMP	Trichlorofluoromethane	0.918	0.905	1.4	100	0.02
10 TMP	2-Propanol	0.000	0.000	0.0	101	0.02
11 TMP	Acetone	0.053	0.034	35.8#	64	0.02
12 TMP	1,1-Dichloroethene	0.384	0.386	-0.5	99	0.00
13 TMP	Hexane	0.328	0.322	1.8	102	0.00
14 TMP	Methylene chloride	0.260	0.265	-1.9	102	0.00
15 TMP	t-Butyl alcohol (TBA)	0.025	0.025#	0.0	99	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.612	0.621	-1.5	99	0.00
17 TMP	trans-1,2-Dichloroethene	0.285	0.283	0.7	99	0.00
18 TMP	Diisopropyl ether (DIPE)	0.667	0.643	3.6	97	0.00
19 TMP	1,1-Dichloroethane	0.397	0.404	-1.8	98	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.290	0.283	2.4	98	0.00
21 TMP	2,2-Dichloropropane	0.277	0.291	-5.1	106	0.00
22 TMP	cis-1,2-Dichloroethene	0.305	0.308	-1.0	98	0.00
23 TMP	Chloroform	0.434	0.432	0.5	101	0.00
24 TMP	2-Butanone (MEK)	0.148	0.107	27.7#	70	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.571	0.576	-0.9	101	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.342	0.303	11.4	98	0.00
27 TMP	1,1,1-Trichloroethane	0.419	0.419	0.0	98	0.00
28 TMP	1,1-Dichloropropene	0.333	0.320	3.9	102	0.00
29 TMP	Carbon tetrachloride	0.386	0.370	4.1	97	0.00
30 S	1,2-Dichloroethane-d4	0.062	0.066	-6.5	107	0.00
31 TMP	Benzene	0.945	0.950	-0.5	99	0.00
32 TMP	Trichloroethene	0.310	0.300	3.2	96	0.00
33 TMP	1,2-Dichloropropane	0.222	0.223	-0.5	101	0.00
34 TMP	Bromodichloromethane	0.300	0.294	2.0	95	0.00
35 S	Toluene-d8	0.939	0.963	-2.6	102	0.00
36 TMP	Dibromomethane	0.165	0.163	1.2	100	0.00
37 TMP	4-Methyl-2-pentanone	0.045	0.045	0.0	101	0.00
38 TMP	cis-1,3-Dichloropropene	0.353	0.351	0.6	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP	Toluene	0.875	0.816	6.7	99	0.00
41 TMP	trans-1,3-Dichloropropene	0.390	0.399	-2.3	106	0.00
42 TMP	1,1,2-Trichloroethane	0.240	0.234	2.5	99	0.00
43 TMP	2-Hexanone	0.232	0.208	10.3	86	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080903.D  
 Acq On : 09 Aug 2023 . 07:07 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:08 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	0.400	0.401	-0.3	101	0.00
45	TMP Tetrachloroethene	0.384	0.357	7.0	98	0.00
46	TMP Dibromochloromethane	0.344	0.350	-1.7	102	0.00
47	TMP 1,2-Dibromoethane (EDB)	0.348	0.319	8.3	98	0.00
48	TMP Chlorobenzene	0.977	0.951	2.7	96	0.00
49	TMP Ethylbenzene	1.510	1.473	2.5	98	0.00
50	TMP 1,1,1,2-Tetrachloroethane	0.343	0.339	1.2	98	0.00
51	TMP m,p-Xylene	0.632	0.614	2.8	99	0.00
52	TMP o-Xylene	0.623	0.607	2.6	98	0.00
53	TMP Styrene	0.964	0.948	1.7	99	0.00
54	TMP Isopropylbenzene	1.451	1.420	2.1	96	0.00
55	TMP Bromoform	0.250	0.260	-4.0	110	0.00
56	I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
57	S 4-Bromofluorobenzene	0.724	0.715	1.2	101	0.00
58	TMP n-Propylbenzene	2.857	2.713	5.0	98	0.00
59	TMP Bromobenzene	0.784	0.725	7.5	93	0.00
60	TMP 1,3,5-Trimethylbenzene	2.182	2.138	2.0	98	0.00
61	TMP 1,1,2,2-Tetrachloroethane	0.624	0.623	0.2	98	0.00
62	TMP 1,2,3-Trichloropropane	0.452	0.445#	1.5	97	0.00
63	TMP 2-Chlorotoluene	1.642	1.640	0.1	100	0.00
64	TMP 4-Chlorotoluene	1.972	1.909	3.2	98	0.00
65	TMP tert-Butylbenzene	2.032	2.006	1.3	98	0.00
66	TMP 1,2,4-Trimethylbenzene	2.285	2.239	2.0	100	0.00
67	TMP sec-Butylbenzene	2.929	2.899	1.0	100	0.00
68	TMP p-Isopropyltoluene	2.567	2.506	2.4	99	0.00
69	TMP 1,3-Dichlorobenzene	1.480	1.451	2.0	98	0.00
70	TMP 1,4-Dichlorobenzene	1.470	1.457	0.9	98	0.00
71	TMP 1,2-Dichlorobenzene	1.415	1.394	1.5	98	0.00
72	TMP 1,2-Dibromo-3-chloropropane	0.120	0.113	5.8	98	0.00
73	TMP 1,2,4-Trichlorobenzene	1.062	1.001	5.7	98	0.00
74	TMP Hexachlorobutadiene	0.574	0.560	2.4	100	0.00
75	TMP Naphthalene	2.365	2.159	8.7	93	0.00
76	TMP 1,2,3-Trichlorobenzene	0.983	0.916	6.8	96	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

**EPA 8260D**  
**Quality Assurance Data**



Spike Recovery and RPD Summary Report - WATER

Method : Y:\Methods\Inst13\072823vms13.M (RTE Integrator)  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration

Non-Spiked Sample: 080928.D

Spike Sample	Spike Duplicate Sample
File ID : 080929.D	080929.D
Sample : 308141-01 ms	308141-01 ms
Acq Time: 09 Aug 2023 06:23 pm	09 Aug 2023 06:23 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Ethanol	0.0	0	0	0	0	0	99#	20	0-300
Dichlorodifluorometh	0.0	10	11	11	110	110	0	20	49-149
Chloromethane	0.1	10	10	10	101	101	0	20	34-143
Vinyl chloride	0.1	10	10	10	102	102	0	20	43-149
Bromomethane	0.2	10	14	14	135	135	0	20	28-182
Chloroethane	0.0	10	12	12	117	117	0	20	59-157
Trichlorofluorometha	0.0	10	11	11	114	114	0	20	59-141
2-Propanol	0.0	0	0	0	0	0	99#	20	0-300
Acetone	1.3	50	35	35	67	67	0	20	20-139
1,1-Dichloroethene	0.0	10	11	11	109	109	0	20	67-138
Hexane	0.0	10	10	10	102	102	0	20	50-161
Methylene chloride	0.7	10	10	10	97	97	0	20	29-192
t-Butyl alcohol (TBA	0.0	50	55	55	110	110	0	20	46-208
Methyl t-butyl ether	0.1	10	10	10	103	103	0	20	70-130
trans-1,2-Dichloroet	0.0	10	11	11	109	109	0	20	70-130
Diisopropyl ether (D	0.0	10	10	10	100	100	0	20	70-130
1,1-Dichloroethane	0.0	10	10	10	102	102	0	20	70-130
Ethyl t-butyl ether	0.0	10	11	11	106	106	0	20	70-128
2,2-Dichloropropane	0.0	10	11	11	111	111	0	20	71-148
cis-1,2-Dichloroethe	0.0	10	10	10	103	103	0	20	70-130
Chloroform	0.0	10	11	11	106	106	0	20	70-130
2-Butanone (MEK)	0.1	50	43	43	86	86	0	20	50-157
t-Amyl methyl ether	0.0	10	11	11	105	105	0	20	70-130
1,2-Dichloroethane (	0.0	10	11	11	114	114	0	20	70-130
1,1,1-Trichloroethan	0.0	10	11	11	112	112	0	20	70-130
1,1-Dichloropropene	0.0	10	11	11	107	107	0	20	70-130
Carbon tetrachloride	0.0	10	11	11	113	113	0	20	70-130
Benzene	0.0	10	11	11	107	107	0	20	70-130
Trichloroethene	0.1	10	11	11	105	105	0	20	70-130
1,2-Dichloropropane	0.0	10	10	10	100	100	0	20	70-130
Bromodichloromethane	0.0	10	11	11	112	112	0	20	70-130
Dibromomethane	0.0	10	10	10	105	105	0	20	70-130
4-Methyl-2-pentanone	0.0	50	55	55	109	109	0	20	70-130
cis-1,3-Dichloroprop	0.0	10	11	11	108	108	0	20	70-130
Toluene	0.0	10	11	11	105	105	0	20	70-130
trans-1,3-Dichloropr	0.0	10	10	10	105	105	0	20	70-130
1,1,2-Trichloroethan	0.0	10	10	10	101	101	0	20	70-130

2-Hexanone	0.0	50	45	45	90	90	0	20	66-132
1,3-Dichloropropane	0.0	10	10	10	101	101	0	20	70-130
Tetrachloroethene	0.0	10	11	11	113	113	0	20	70-130
Dibromochloromethane	0.0	10	11	11	107	107	0	20	63-142
1,2-Dibromoethane (E)	0.0	10	10	10	105	105	0	20	70-130
Chlorobenzene	0.0	10	10	10	103	103	0	20	70-130
Ethylbenzene	0.0	10	11	11	107	107	0	20	70-130
1,1,1,2-Tetrachloroe	0.0	10	11	11	111	111	0	20	70-130
m,p-Xylene	0.0	20	22	22	108	108	0	20	70-130
o-Xylene	0.0	10	11	11	106	106	0	20	70-130
Styrene	0.0	10	10	10	102	102	0	20	70-130
Isopropylbenzene	0.0	10	10	10	103	103	0	20	70-130
Bromoform	0.0	10	11	11	113	113	0	20	50-157
n-Propylbenzene	0.0	10	10	10	99	99	0	20	70-130
Bromobenzene	0.0	10	10	10	102	102	0	20	70-130
1,3,5-Trimethylbenze	0.0	10	10	10	102	102	0	20	52-150
1,1,2,2-Tetrachloroe	0.0	10	11	11	106	106	0	20	75-140
1,2,3-Trichloropropa	0.0	10	9	9	89	89	0	20	40-153
2-Chlorotoluene	0.0	10	10	10	99	99	0	20	70-130
4-Chlorotoluene	0.0	10	10	10	101	101	0	20	70-130
tert-Butylbenzene	0.0	10	10	10	103	103	0	20	70-130
1,2,4-Trimethylbenze	0.0	10	10	10	100	100	0	20	70-130
sec-Butylbenzene	0.0	10	10	10	98	98	0	20	70-130
p-Isopropyltoluene	0.0	10	10	10	104	104	0	20	70-130
1,3-Dichlorobenzene	0.0	10	10	10	104	104	0	20	70-130
1,4-Dichlorobenzene	0.0	10	10	10	99	99	0	20	70-130
1,2-Dichlorobenzene	0.0	10	10	10	102	102	0	20	70-130
1,2-Dibromo-3-chloro	0.0	10	9	9	91	91	0	20	70-130
1,2,4-Trichlorobenze	0.0	10	10	10	96	96	0	20	70-130
Hexachlorobutadiene	0.0	10	10	10	104	104	0	20	70-130
Naphthalene	0.0	10	9	9	89	89	0	20	61-133
1,2,3-Trichlorobenze	0.0	10	9	9	94	94	0	20	69-143

# - Fails Limit Check

072823vms13.M

Thu Aug 10 08:13:27 2023

Spike Recovery and RPD Summary Report - WATER

Method : Y:\Methods\Inst13\072823vms13.M (RTE Integrator)  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration

Non-Spiked Sample: 080907.D

Spike Sample	Spike Duplicate Sample
File ID : 080904.D	080905.D
Sample : 03-1811 lcs	03-1811 lcsd
Acq Time: 09 Aug 2023 07:21 am	09 Aug 2023 07:45 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Ethanol	0.0	0	0	0	0	0	99#	20	0-300
Dichlorodifluorometh	0.0	10	11	11	105	107	2	20	49-149
Chloromethane	0.0	10	10	10	100	104	4	20	34-143
Vinyl chloride	0.0	10	10	10	99	102	3	20	43-149
Bromomethane	0.0	10	15	14	145	142	2	20	28-182
Chloroethane	0.0	10	11	12	115	117	2	20	59-157
Trichlorofluorometha	0.0	10	10	12	102	118	15	20	59-141
2-Propanol	0.0	0	0	0	0	0	99#	20	0-300
Acetone	0.8	50	33	35	65	68	4	20	20-139
1,1-Dichloroethene	0.0	10	11	11	107	108	1	20	67-138
Hexane	0.0	10	10	11	103	105	2	20	50-161
Methylene chloride	0.4	10	10	11	98	105	7	20	29-192
t-Butyl alcohol (TBA	0.0	50	53	55	106	111	5	20	46-208
Methyl t-butyl ether	0.0	10	10	10	102	104	2	20	70-130
trans-1,2-Dichloroet	0.0	10	11	11	108	108	1	20	70-130
Diisopropyl ether (D	0.0	10	10	10	100	101	1	20	70-130
1,1-Dichloroethane	0.0	10	10	10	101	101	0	20	70-130
Ethyl t-butyl ether	0.0	10	11	11	106	110	4	20	70-128
2,2-Dichloropropane	0.0	10	12	15	120	147	21#	20	71-148
cis-1,2-Dichloroethe	0.0	10	10	10	102	102	1	20	70-130
Chloroform	0.0	10	10	11	105	107	2	20	70-130
2-Butanone (MEK)	0.1	50	41	42	83	83	1	20	50-157
t-Amyl methyl ether	0.0	10	11	11	106	108	2	20	70-130
1,2-Dichloroethane (	0.0	10	11	11	111	113	2	20	70-130
1,1,1-Trichloroethan	0.0	10	11	11	111	113	2	20	70-130
1,1-Dichloropropene	0.0	10	10	11	102	108	6	20	70-130
Carbon tetrachloride	0.0	10	11	12	114	118	3	20	70-130
Benzene	0.0	10	11	11	106	107	2	20	70-130
Trichloroethene	0.0	10	10	10	105	105	0	20	70-130
1,2-Dichloropropane	0.0	10	10	10	98	98	0	20	70-130
Bromodichloromethane	0.0	10	11	11	106	109	2	20	70-130
Dibromomethane	0.0	10	10	11	101	109	7	20	70-130
4-Methyl-2-pentanone	0.0	50	50	51	100	102	2	20	70-130
cis-1,3-Dichloroprop	0.0	10	11	11	109	108	1	20	70-130
Toluene	0.0	10	10	11	104	105	1	20	70-130
trans-1,3-Dichloropr	0.0	10	10	11	105	108	3	20	70-130
1,1,2-Trichloroethan	0.0	10	10	10	99	100	1	20	70-130

2-Hexanone	0.1	50	44	45	87	89	2	20	66-132
1,3-Dichloropropane	0.0	10	10	10	100	99	1	20	70-130
Tetrachloroethene	0.0	10	11	11	112	113	1	20	70-130
Dibromochloromethane	0.0	10	11	11	113	113	0	20	63-142
1,2-Dibromoethane (E)	0.0	10	10	11	104	106	2	20	70-130
Chlorobenzene	0.0	10	10	10	102	102	0	20	70-130
Ethylbenzene	0.0	10	11	11	108	108	1	20	70-130
1,1,1,2-Tetrachloroe	0.0	10	11	11	112	111	1	20	70-130
m,p-Xylene	0.0	20	22	22	108	110	2	20	70-130
o-Xylene	0.0	10	11	11	106	107	1	20	70-130
Styrene	0.0	10	10	11	103	106	3	20	70-130
Isopropylbenzene	0.0	10	11	11	106	105	1	20	70-130
Bromoform	0.0	10	11	11	112	113	1	20	50-157
n-Propylbenzene	0.0	10	10	10	99	98	1	20	70-130
Bromobenzene	0.0	10	10	10	100	99	1	20	70-130
1,3,5-Trimethylbenze	0.0	10	10	10	101	102	1	20	52-150
1,1,2,2-Tetrachloroe	0.0	10	10	10	102	101	1	20	75-140
1,2,3-Trichloropropa	0.0	10	9	9	88	90	2	20	40-153
2-Chlorotoluene	0.0	10	10	10	98	98	0	20	70-130
4-Chlorotoluene	0.0	10	10	10	100	101	1	20	70-130
tert-Butylbenzene	0.0	10	10	10	102	101	1	20	70-130
1,2,4-Trimethylbenze	0.0	10	10	10	99	100	0	20	70-130
sec-Butylbenzene	0.0	10	10	10	100	99	1	20	70-130
p-Isopropyltoluene	0.0	10	10	10	103	103	1	20	70-130
1,3-Dichlorobenzene	0.0	10	10	10	103	102	1	20	70-130
1,4-Dichlorobenzene	0.0	10	10	10	101	101	0	20	70-130
1,2-Dichlorobenzene	0.0	10	10	10	101	101	1	20	70-130
1,2-Dibromo-3-chloro	0.0	10	9	9	93	89	4	20	70-130
1,2,4-Trichlorobenze	0.0	10	10	10	100	98	2	20	70-130
Hexachlorobutadiene	0.0	10	11	11	108	109	1	20	70-130
Naphthalene	0.0	10	9	9	86	88	2	20	61-133
1,2,3-Trichlorobenze	0.0	10	9	10	94	96	2	20	69-143

# - Fails Limit Check

072823vms13.M

Thu Aug 10 08:12:58 2023

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080904.D  
 Acq On : 09 Aug 2023 07:21 am  
 Operator : MD  
 Sample : 03-1811 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:16 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	77888	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	61051	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	31185	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	22131	10.471	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	104.70%		
30) 1,2-Dichloroethane-d4	4.45	102	4613	9.856	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	98.60%		
35) Toluene-d8	6.10	98	87595	10.122	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	101.20%		
57) 4-Bromofluorobenzene	8.50	95	26348	9.380	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	93.80%		
Target Compounds							
2) Ethanol	2.33	45	552	No Calib			Qvalue
4) Dichlorodifluoromethane	1.12	85	74154	10.507	ppb	99	
5) Chloromethane	1.25	50	73612	9.959	ppb	99	
6] Vinyl chloride	1.33	62	59139	9.878	ppb	96	
7) Bromomethane	1.58	94	42599	14.518	ppb	94	
8] Chloroethane	1.65	64	28893	11.499	ppb	97	
9) Trichlorofluoromethane	1.85	101	95356	10.225	ppb	97	
10) 2-Propanol	2.33	45	552	No Calib	#		
11) Acetone	2.32	58	10287	33.364	ppb	89	
12] 1,1-Dichloroethene	2.27	96	22513	10.686	ppb	98	
13) Hexane	3.16	57	31737	10.348	ppb	96	
14) Methylene chloride	2.68	84	19251	10.147	ppb	89	
15) t-Butyl alcohol (TBA)	2.81	59	13391	52.894	ppb	100	
16] Methyl t-butyl ether (...)	2.93	73	49855	10.204	ppb	93	
17] trans-1,2-Dichloroethene	2.92	96	21353	10.761	ppb	# 80	
18) Diisopropyl ether (DIPE)	3.34	45	72912	10.000	ppb	94	
19] 1,1-Dichloroethane	3.27	63	38193	10.091	ppb	98	
20) Ethyl t-butyl ether (E...)	3.65	87	21830	10.628	ppb	97	
21) 2,2-Dichloropropane	3.76	77	25122	12.004	ppb	97	
22] cis-1,2-Dichloroethene	3.77	96	22886	10.175	ppb	98	
23) Chloroform	4.04	83	37017	10.465	ppb	93	
24) 2-Butanone (MEK)	3.78	43	62129	41.417	ppb	99	
25) t-Amyl methyl ether (T...)	4.60	73	49063	10.608	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.52	62	32872	11.131	ppb	100	
27] 1,1,1-Trichloroethane	4.19	97	35110	11.110	ppb	98	
28) 1,1-Dichloropropene	4.32	75	27375	10.238	ppb	97	
29) Carbon tetrachloride	4.33	117	31459	11.394	ppb	97	
31] Benzene	4.50	78	79836	10.556	ppb	100	
32] Trichloroethene	5.04	95	24285	10.468	ppb	99	
33) 1,2-Dichloropropane	5.24	63	20581	9.810	ppb	99	
34) Bromodichloromethane	5.48	83	27087	10.634	ppb	99	
36) Dibromomethane	5.34	93	13676	10.118	ppb	98	

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080904.D  
 Acq On : 09 Aug 2023 07:21 am  
 Operator : MD  
 Sample : 03-1811 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS13

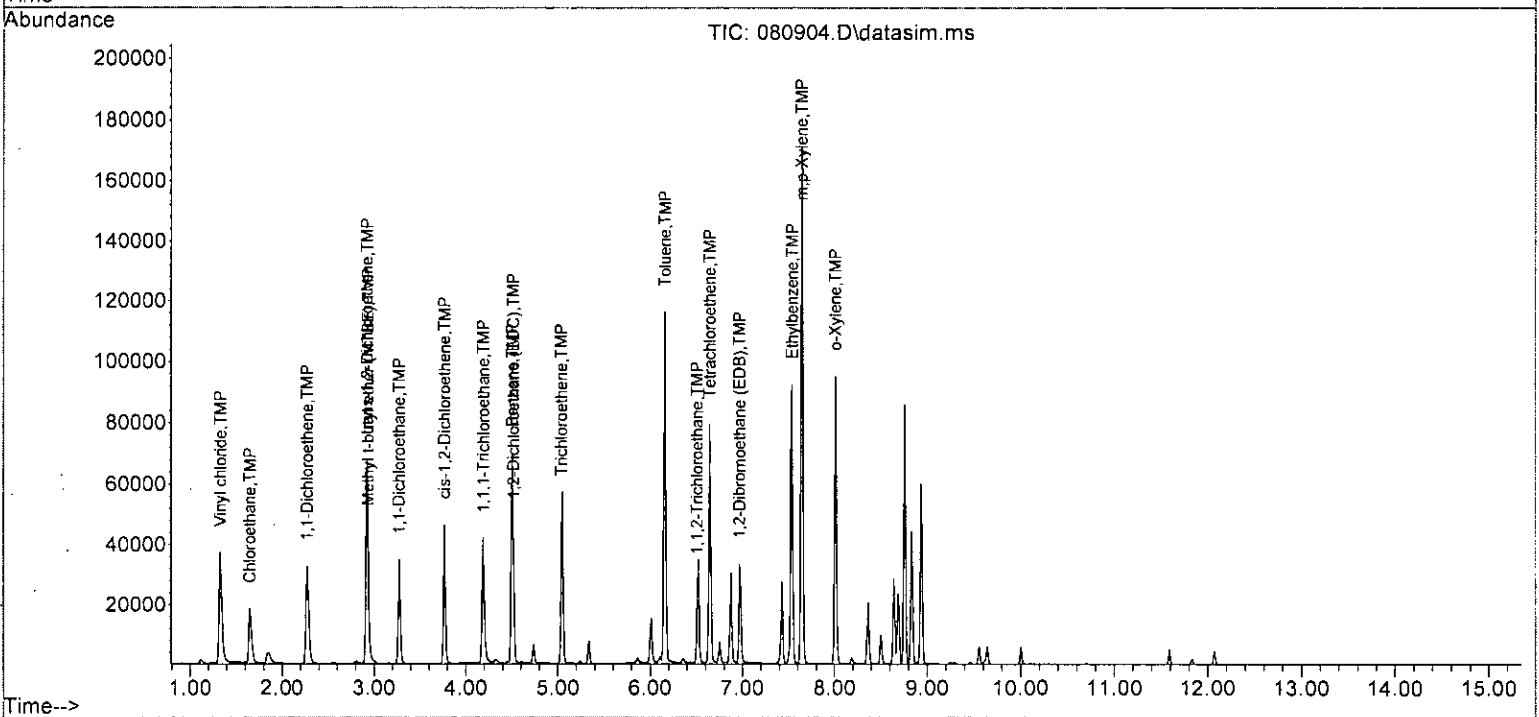
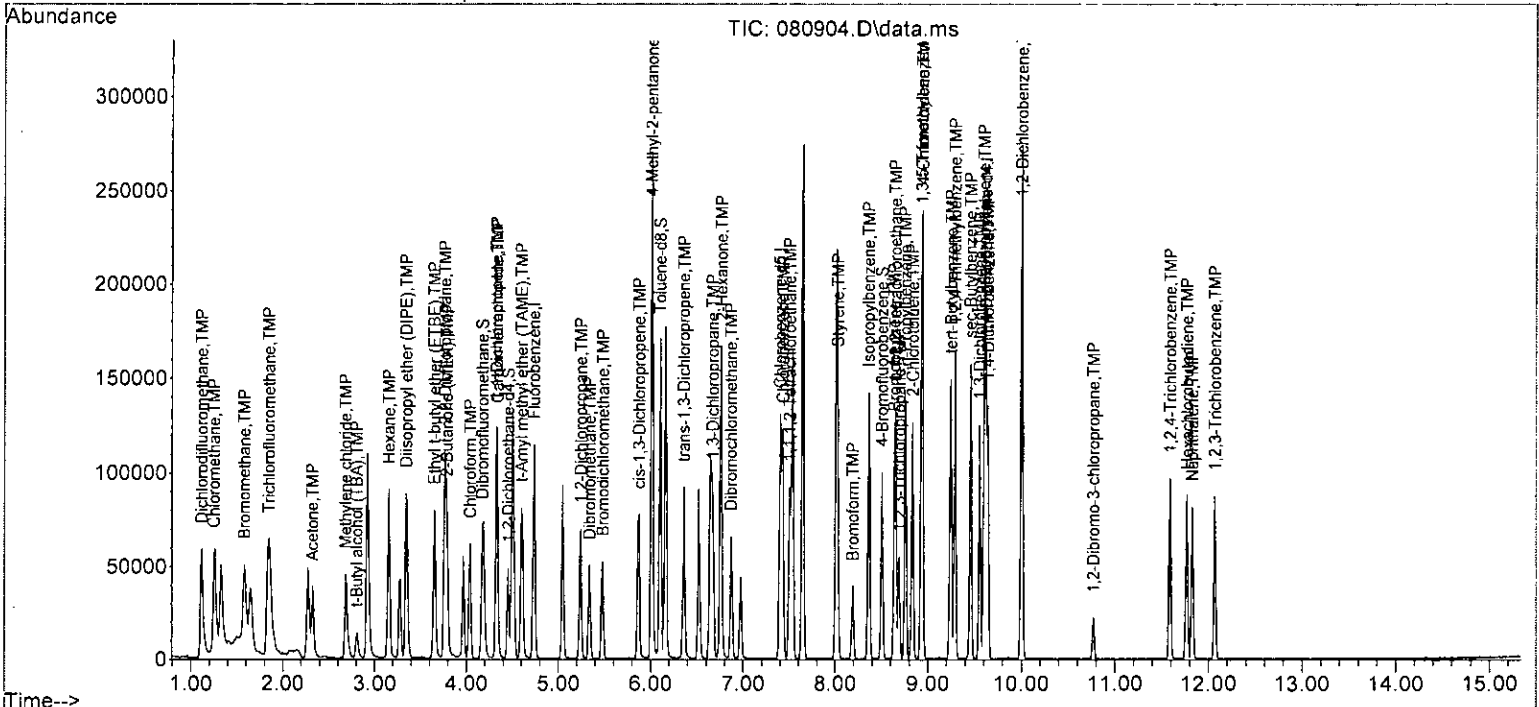
Quant Time: Aug 10 08:05:16 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	21957	49.935	ppb	94
38) cis-1,3-Dichloropropene	5.87	75	38213	10.916	ppb	90
40] Toluene	6.16	92	62769	10.427	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	33717	10.474	ppb	98
42] 1,1,2-Trichloroethane	6.51	83	19634	9.943	ppb	95
43) 2-Hexanone	6.76	43	120002	43.603	ppb	94
44) 1,3-Dichloropropane	6.67	76	34984	10.022	ppb	92
45] Tetrachloroethene	6.64	164	26799	11.249	ppb	97
46) Dibromochloromethane	6.87	129	30042	11.327	ppb	94
47] 1,2-Dibromoethane (EDB)	6.97	107	26661	10.405	ppb	97
48) Chlorobenzene	7.43	112	57687	10.153	ppb	97
49] Ethylbenzene	7.54	91	97152	10.751	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	22440	11.169	ppb	98
51] m,p-Xylene	7.64	106	76442	21.621	ppb	99
52] o-Xylene	8.01	106	36997	10.622	ppb	98
53) Styrene	8.03	104	56820	10.268	ppb	99
54) Isopropylbenzene	8.36	105	88351	10.588	ppb	99
55) Bromoform	8.19	173	16355	11.213	ppb	99
58) n-Propylbenzene	8.75	91	103360	9.966	ppb	99
59) Bromobenzene	8.64	156	25376	9.992	ppb	89
60) 1,3,5-Trimethylbenzene	8.93	105	72876	10.113	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.65	83	24526	10.246	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	18103	8.824	ppb	95
63) 2-Chlorotoluene	8.84	91	59649	9.822	ppb	94
64) 4-Chlorotoluene	8.94	91	70336	9.992	ppb	100
65) tert-Butylbenzene	9.25	119	67007	10.172	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	75725	9.936	ppb	98
67) sec-Butylbenzene	9.45	105	97334	10.041	ppb	97
68) p-Isopropyltoluene	9.60	119	83556	10.326	ppb	98
69) 1,3-Dichlorobenzene	9.55	146	46480	10.327	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	46312	10.065	ppb	94
71) 1,2-Dichlorobenzene	10.00	146	43004	10.056	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	4214	9.270	ppb	87
73) 1,2,4-Trichlorobenzene	11.59	180	28314	10.003	ppb	100
74) Hexachlorobutadiene	11.77	225	16455	10.800	ppb	96
75) Naphthalene	11.82	128	57886	8.684	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	24171	9.388	ppb	97

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

Data Path : Y:\Proc\_GCMS13\08-09-23\  
Data File : 080904.D  
Acq On : 09 Aug 2023 07:21 am  
Operator : MD  
Sample : 03-1811 lcs  
Misc : water  
ALS Vial : 2 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Aug 10 08:05:16 2023  
Quant Method : Y:\Methods\Inst13\072823vms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : 5at Jul 29 09:22:43 2023  
Response via : Initial Calibration  
DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080905.D  
 Acq On : 09 Aug 2023 07:45 am  
 Operator : MD  
 Sample : 03-1811 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	75232	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	59557	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	31225	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	22558	11.050	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	110.50%	
30) 1,2-Dichloroethane-d4	4.45	102	4939	10.925	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	109.30%	
35) Toluene-d8	6.10	98	86532	10.352	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	103.50%	
57) 4-Bromofluorobenzene	8.50	95	26467	9.411	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	94.10%	
Target Compounds							
2) Ethanol	2.33	45	353	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	73032	10.713	ppb		99
5) Chloromethane	1.25	50	74044	10.371	ppb		98
6] Vinyl chloride	1.32	62	59011	10.204	ppb		99
7) Bromomethane	1.57	94	40295	14.217	ppb		90
8] Chloroethane	1.65	64	28444	11.720	ppb		93
9) Trichlorofluoromethane	1.84	101	106577	11.832	ppb		98
10) 2-Propanol	2.33	45	353	No Calib	#		
11) Acetone	2.32	58	10313	34.629	ppb	#	79
12] 1,1-Dichloroethene	2.27	96	22043	10.832	ppb		92
13) Hexane	3.16	57	31183	10.526	ppb		95
14) Methylene chloride	2.68	84	19903	10.861	ppb		96
15) t-Butyl alcohol (TBA)	2.81	59	13553	55.423	ppb		98
16] Methyl t-butyl ether (...)	2.92	73	49126	10.410	ppb		98
17] trans-1,2-Dichloroethene	2.91	96	20737	10.820	ppb		94
18) Diisopropyl ether (DIPE)	3.34	45	71413	10.140	ppb		96
19] 1,1-Dichloroethane	3.27	63	36860	10.083	ppb		99
20) Ethyl t-butyl ether (E...)	3.65	87	21903	11.040	ppb	#	85
21) 2,2-Dichloropropane	3.76	77	29815	14.749	ppb		99
22] cis-1,2-Dichloroethene	3.77	96	22227	10.231	ppb		96
23) Chloroform	4.04	83	36622	10.719	ppb		98
24) 2-Butanone (MEK)	3.78	43	60549	41.789	ppb		97
25) t-Amyl methyl ether (T...)	4.60	73	48170	10.783	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	32305	11.326	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	34537	11.315	ppb		98
28) 1,1-Dichloropropene	4.32	75	28018	10.848	ppb		97
29) Carbon tetrachloride	4.32	117	31420	11.782	ppb		96
31] Benzene	4.50	78	78437	10.737	ppb		98
32] Trichloroethene	5.04	95	23465	10.471	ppb		96
33) 1,2-Dichloropropane	5.23	63	19792	9.767	ppb		100
34) Bromodichloromethane	5.47	83	26792	10.889	ppb		97
36) Dibromomethane	5.34	93	14196	10.874	ppb		98



Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080905.D  
 Acq On : 09 Aug 2023 07:45 am  
 Operator : MD  
 Sample : 03-1811 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCM513

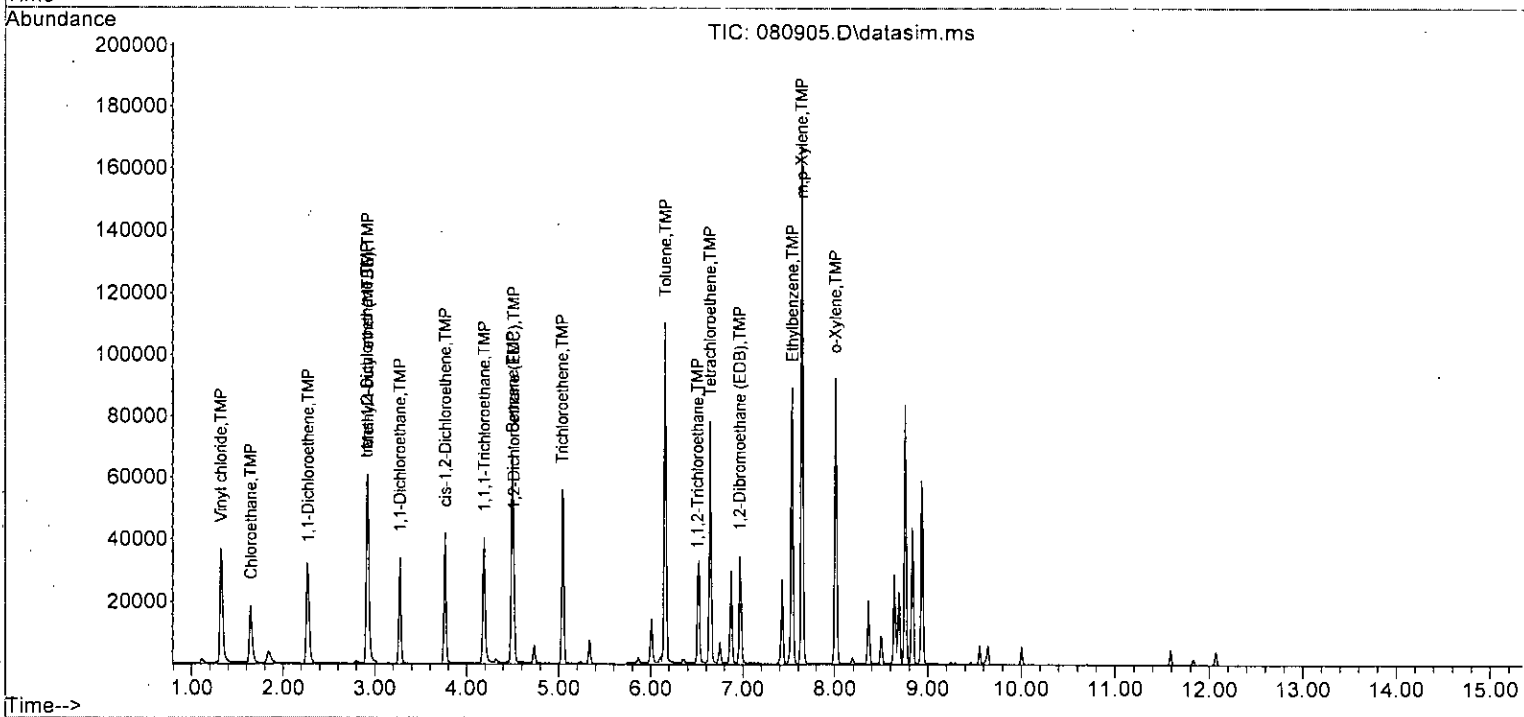
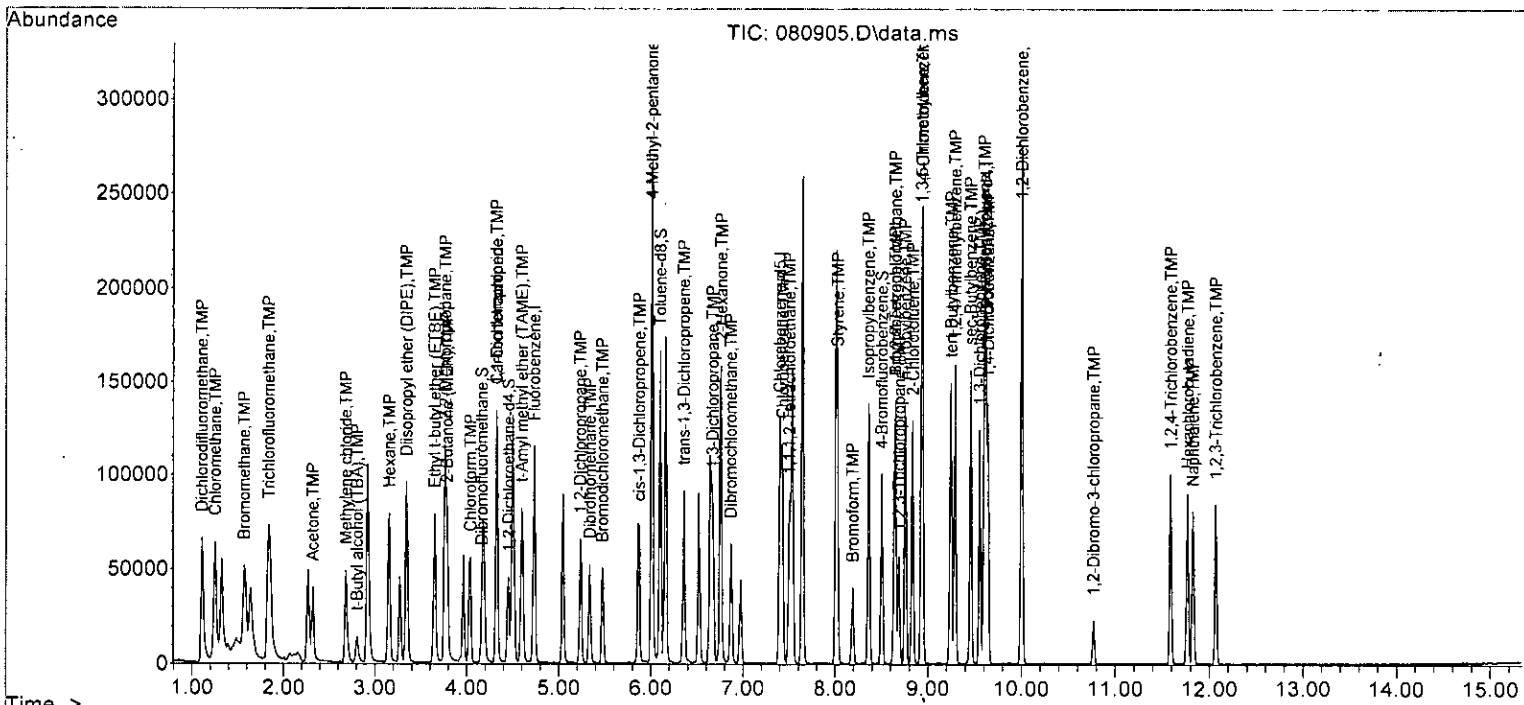
Quant Time: Aug 10 08:05:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	21711	51.119	ppb	92
38) cis-1,3-Dichloropropene	5.87	75	36589	10.821	ppb	93
40] Toluene	6.16	92	61728	10.512	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	33781	10.757	ppb	98
42] 1,1,2-Trichloroethane	6.51	83	19362	10.051	ppb	96
43) 2-Hexanone	6.76	43	119501	44.510	ppb	96
44) 1,3-Dichloropropane	6.67	76	33827	9.934	ppb	91
45] Tetrachloroethene	6.64	164	26338	11.333	ppb	97
46) Dibromochloromethane	6.87	129	29200	11.285	ppb	92
47] 1,2-Dibromoethane (EDB)	6.97	107	26524	10.612	ppb	99
48) Chlorobenzene	7.43	112	56491	10.191	ppb	99
49] Ethylbenzene	7.54	91	95551	10.839	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	21739	11.091	ppb	97
51] m,p-Xylene	7.64	106	75846	21.991	ppb	98
52] o-Xylene	8.01	106	36520	10.748	ppb	99
53) Styrene	8.03	104	57082	10.574	ppb	100
54) Isopropylbenzene	8.36	105	85525	10.506	ppb	100
55) Bromoform	8.19	173	16075	11.298	ppb	98
58) n-Propylbenzene	8.75	91	102438	9.865	ppb	99
59) Bromobenzene	8.65	156	25176	9.900	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	73941	10.247	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	24222	10.106	ppb	99
62) 1,2,3-Trichloropropane	8.69	75	18501	9.007	ppb	98
63) 2-Chlorotoluene	8.84	91	59866	9.845	ppb	99
64) 4-Chlorotoluene	8.94	91	71311	10.117	ppb	98
65) tert-Butylbenzene	9.25	119	66407	10.068	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	76037	9.964	ppb	99
67) sec-Butylbenzene	9.45	105	96568	9.949	ppb	98
68) p-Isopropyltoluene	9.60	119	83207	10.270	ppb	98
69) 1,3-Dichlorobenzene	9.55	146	46165	10.244	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	46533	10.100	ppb	95
71) 1,2-Dichlorobenzene	10.00	146	43346	10.123	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	4067	8.935	ppb	81
73) 1,2,4-Trichlorobenzene	11.59	180	27780	9.802	ppb	97
74) Hexachlorobutadiene	11.77	225	16571	10.862	ppb	96
75) Naphthalene	11.82	128	58844	8.816	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	24799	9.620	ppb	97

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

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080905.D  
 Acq On : 09 Aug 2023 07:45 am  
 Operator : MD  
 Sample : 03-1811 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

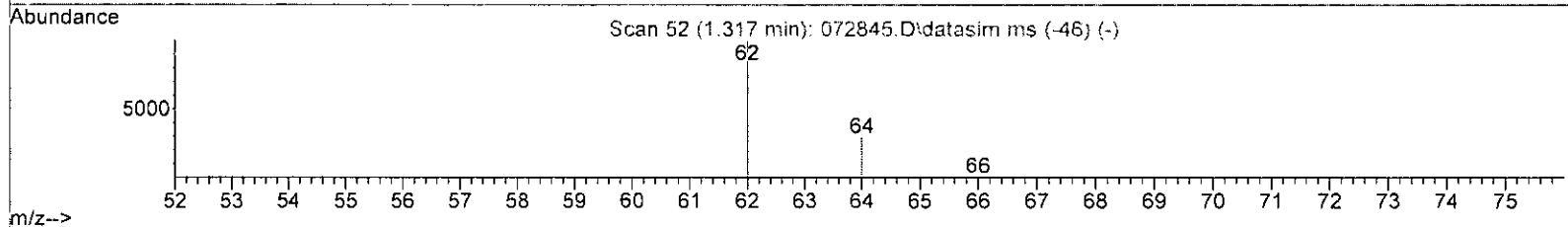
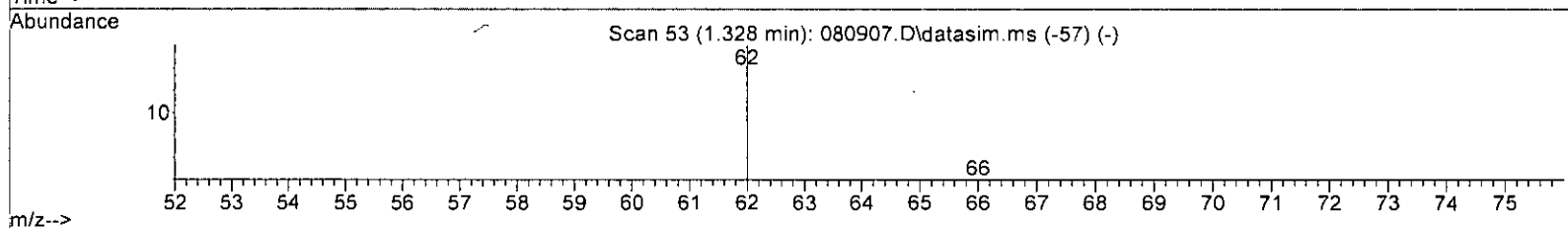
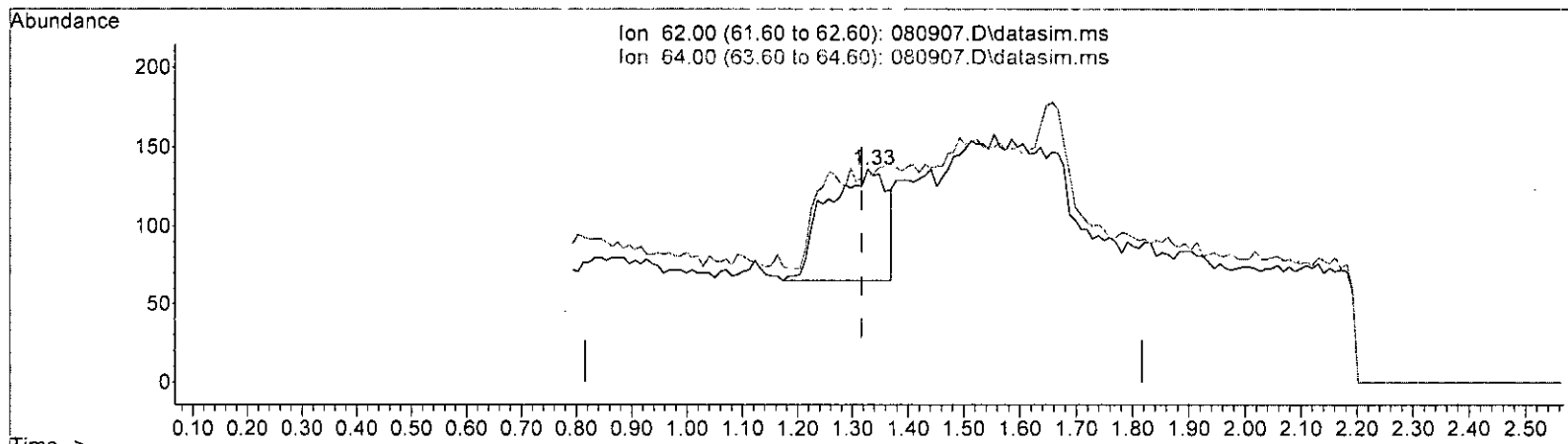
Quant Time: Aug 10 08:05:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



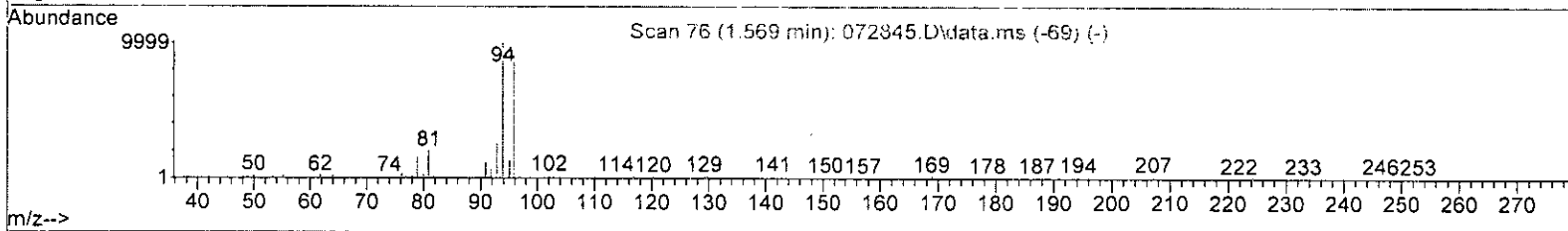
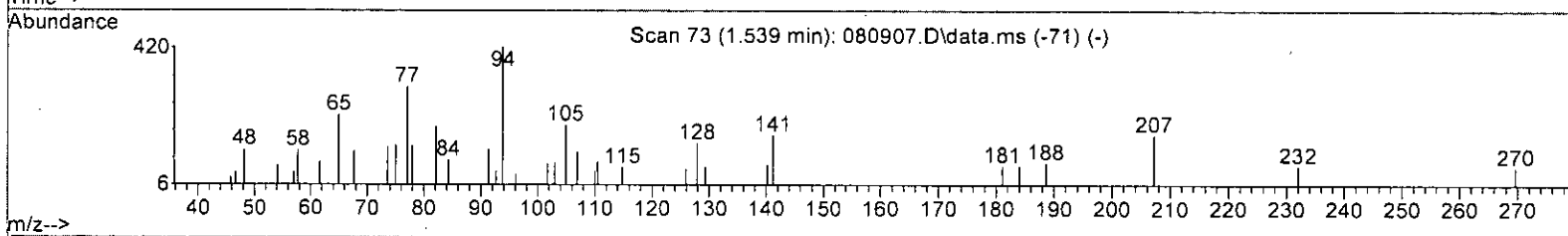
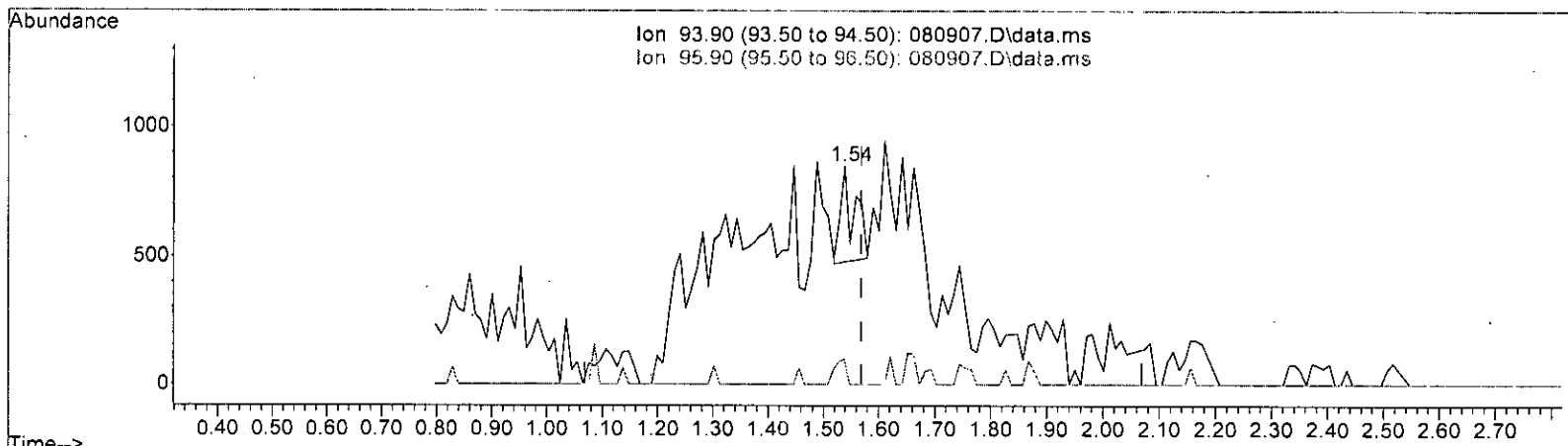
TIC: 080907.D\data.ms

(6) Vinyl chloride (TMP)		
Retention Time	Concentration	Response
1.328min (+ 0.011)	0.082 ppb	540
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	81.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 080907.D\data.ms

(7) Bromomethane (TMP)

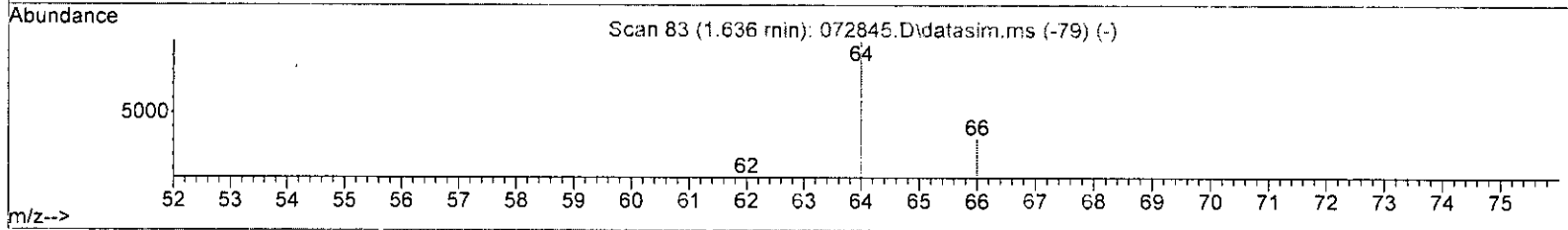
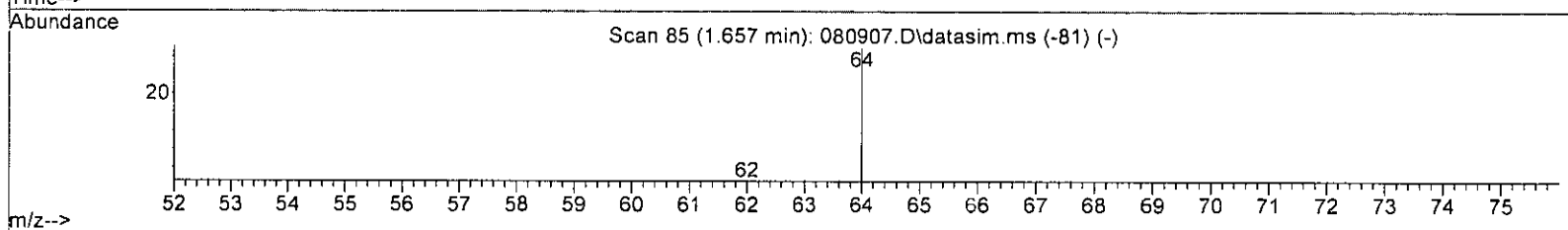
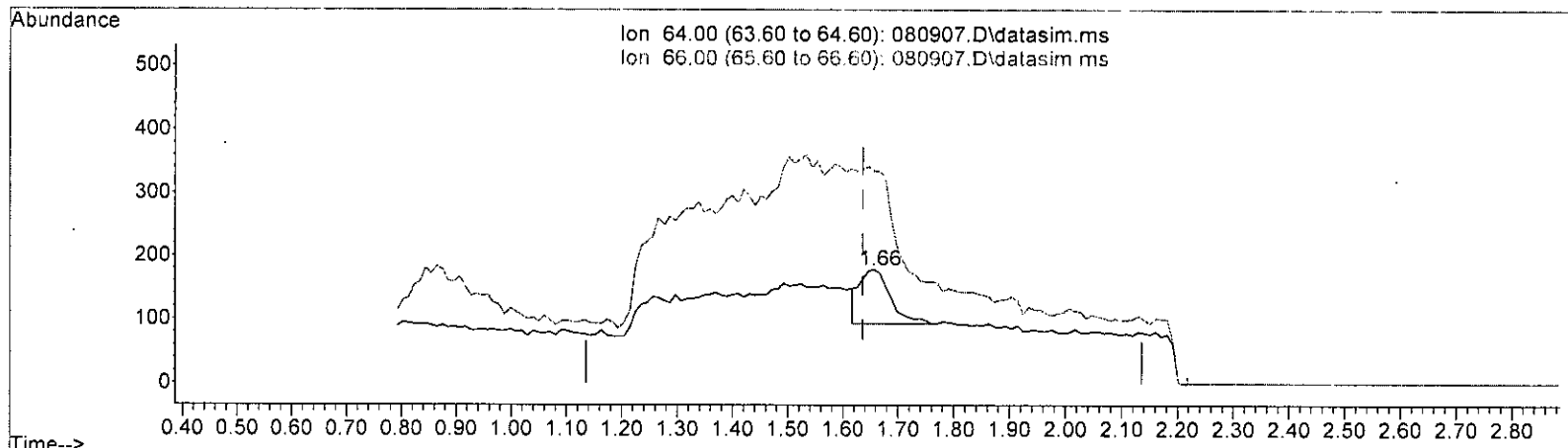
1.539min (-0.030) 0.207 ppb

response	668
Ion	Exp% Act%
93.90	100.00 100.00
95.90	100.70 27.89#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 080907.D\data.ms

(8) Chloroethane (TMP)

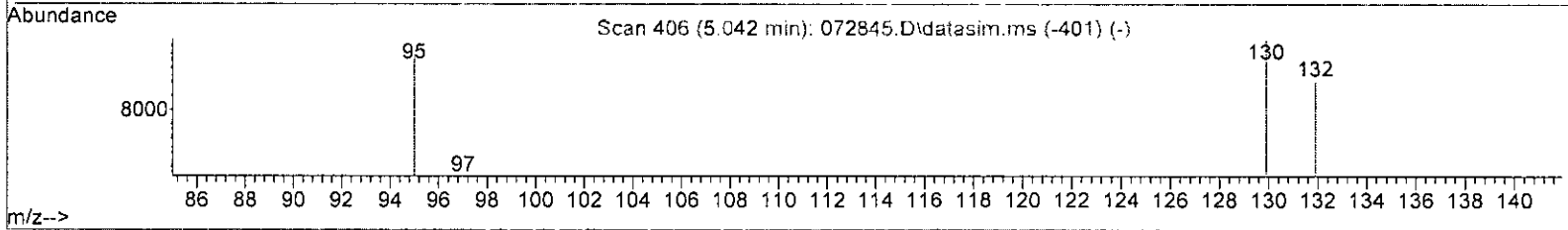
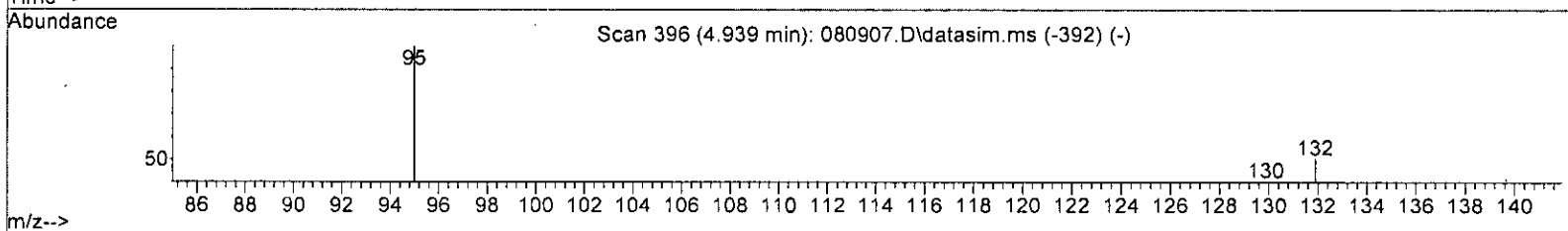
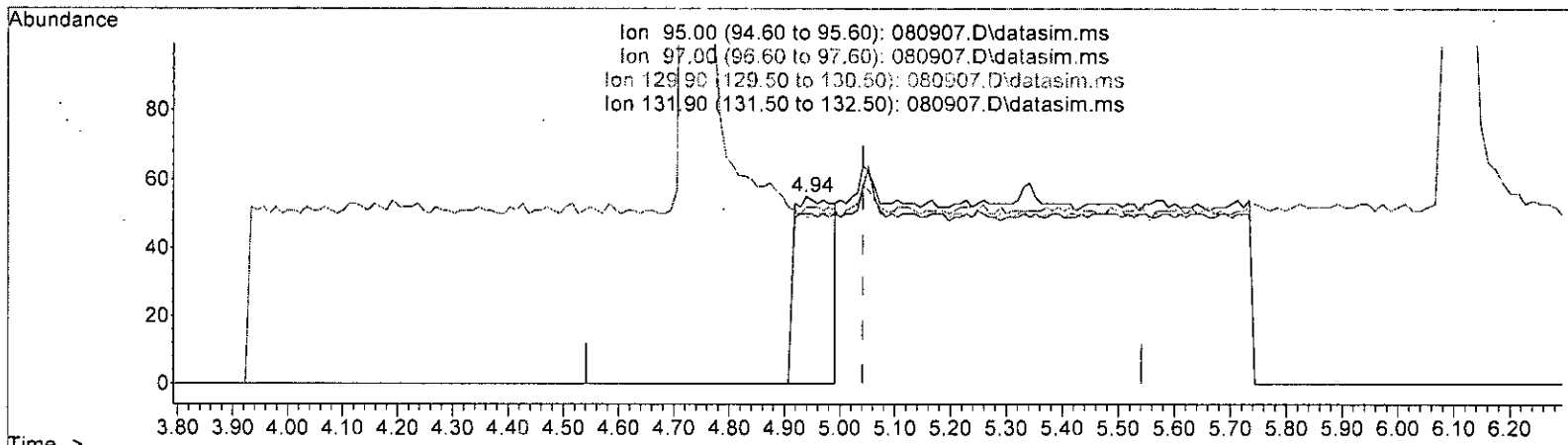
1.657min (+ 0.021) 0.120 ppb

response	332
Ion	Exp% Act%
64.00	100.00 100.00
66.00	29.80 208.24#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 080907.D\data.ms

(32) Trichloroethene (TMP)		
4.939min (-0.103) 0.091 ppb		
response	269	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	1.82#
129.90	98.60	89.09
131.90	86.60	90.91

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

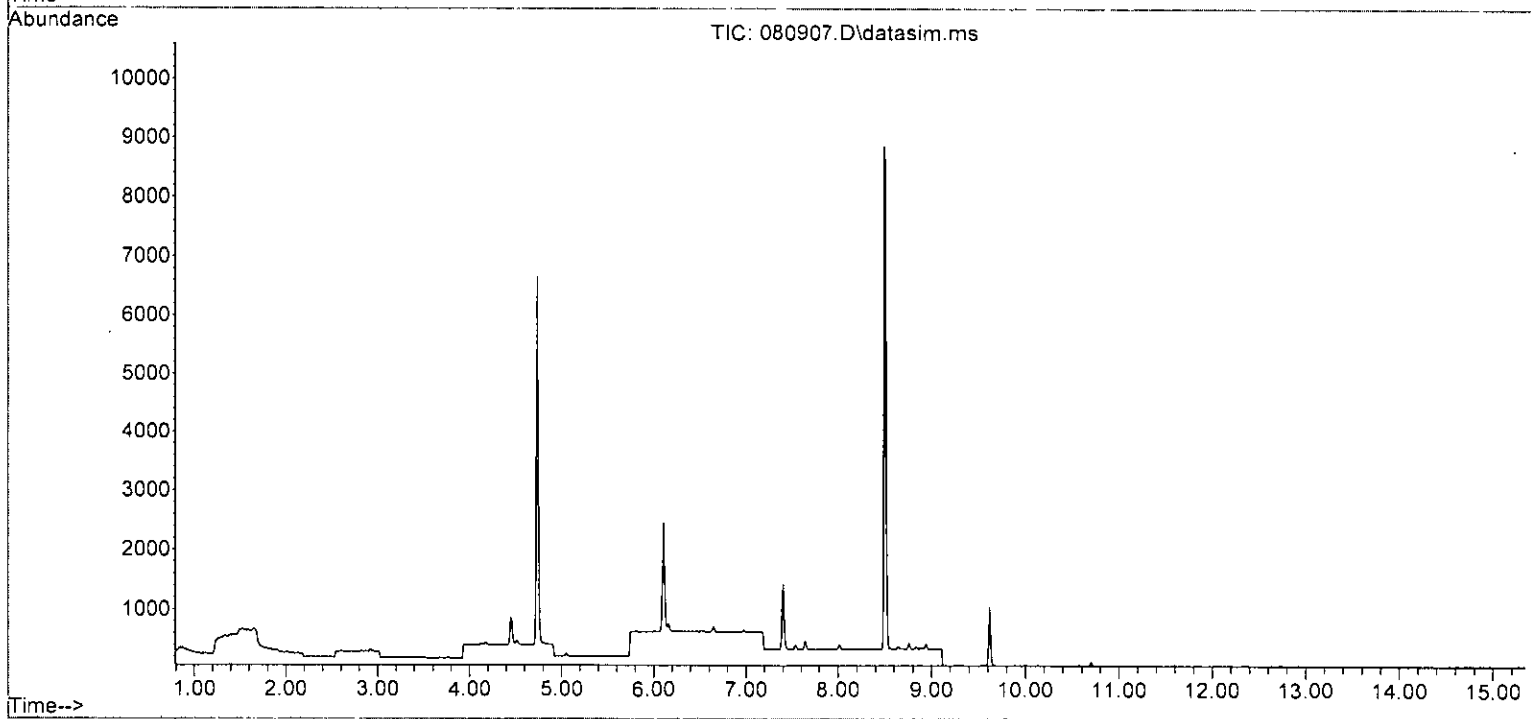
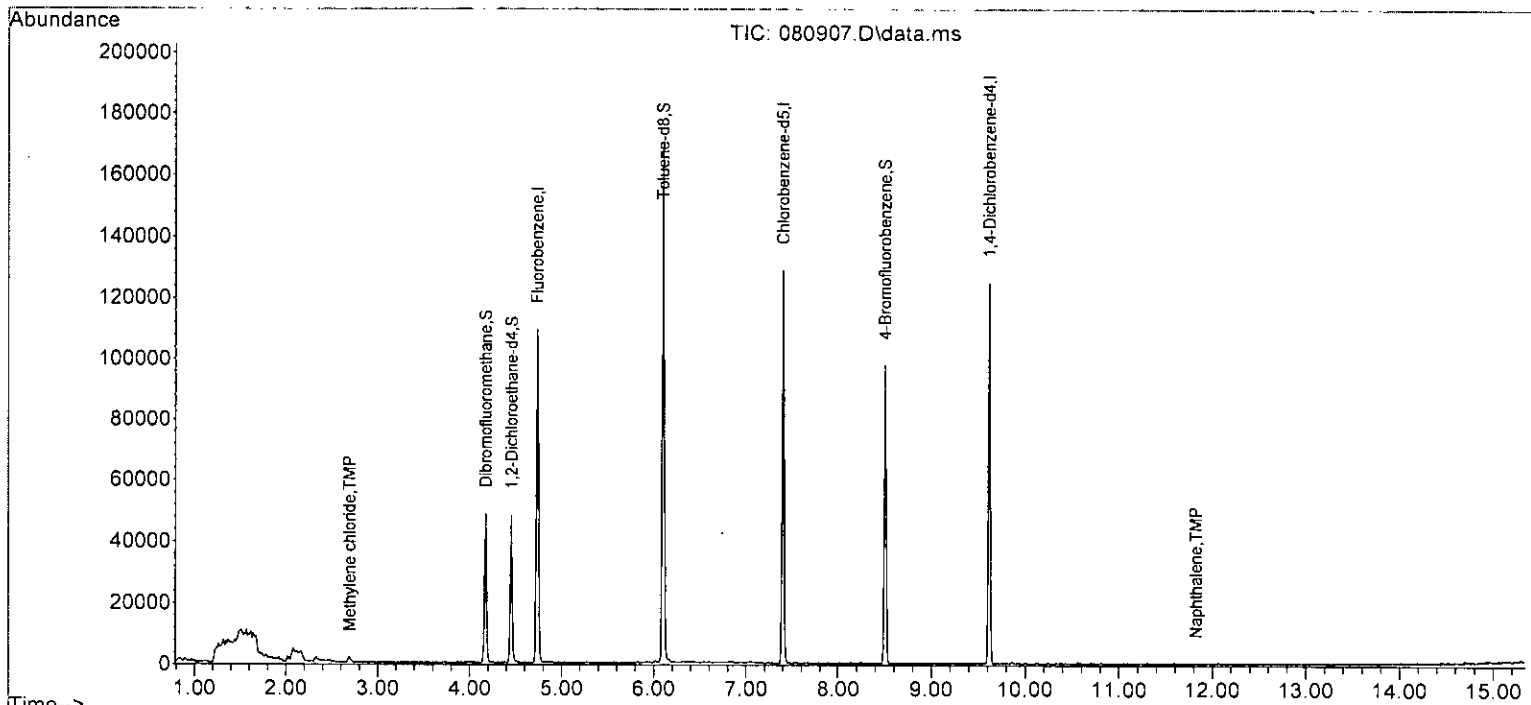
Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	85622	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	61218	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	30538	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	22541	9.702	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.00%	
30) 1,2-Dichloroethane-d4	4.45	102	5064	9.843	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	98.40%	
35) Toluene-d8	6.10	98	89845	9.445	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	94.40%	
57) 4-Bromofluorobenzene	8.50	95	25653	9.327	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	93.30%	
Target Compounds						
						Qvalue
14) Methylene chloride	2.69	84	822	0.394	ppb	88
26] .1,2-Dichloroethane (EDC)	4.52	62	74	Below Cal		97
40] Toluene	6.16	92	65	Below Cal		100
45] Tetrachloroethene	6.64	164	35	Below Cal		94
49] Ethylbenzene	7.54	91	85	Below Cal		98
51] m,p-Xylene	7.64	106	77	Below Cal		100
52] o-Xylene	8.01	106	32	Below Cal		90
75) Naphthalene	11.82	128	237	0.036	ppb	68

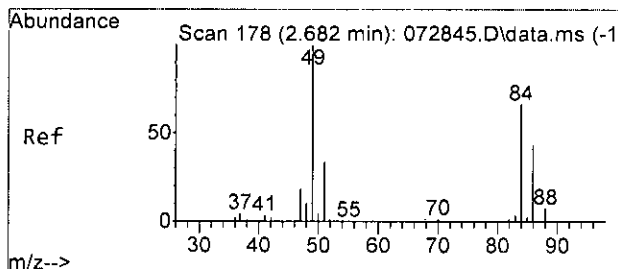
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

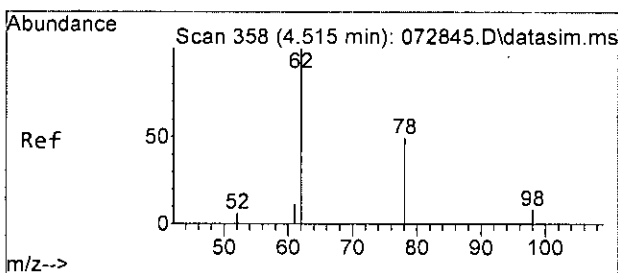
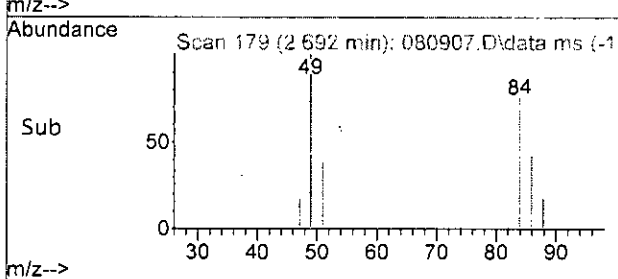
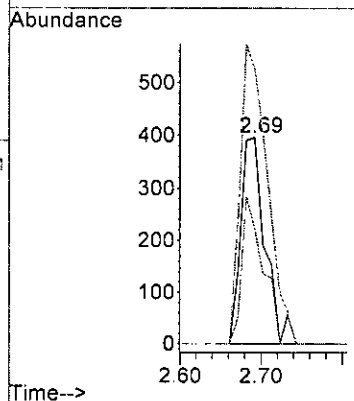
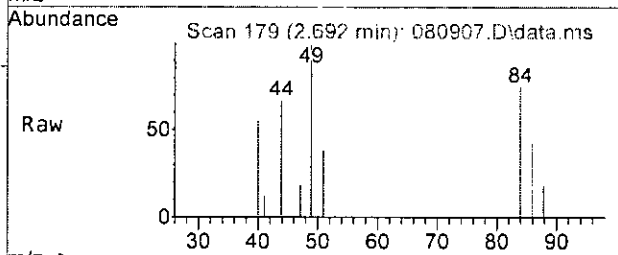






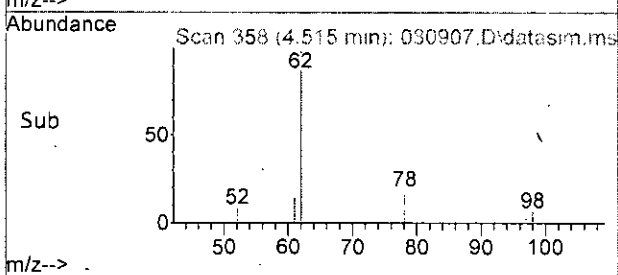
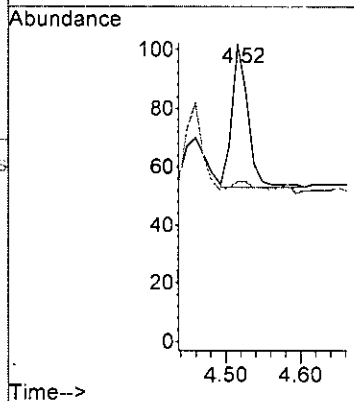
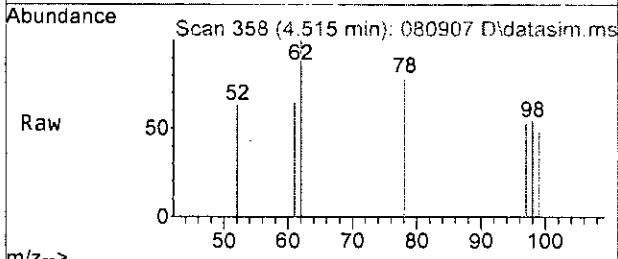
#14  
 Methylene chloride  
 Concen: 0.394 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 080907.D  
 Acq: 09 Aug 2023 08:31 am

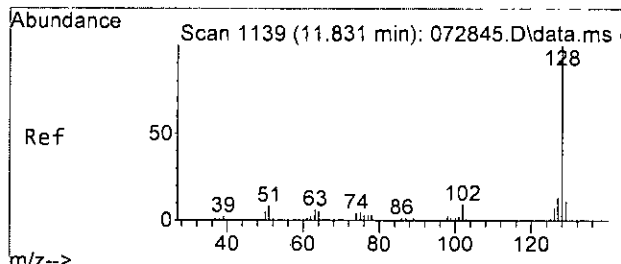
Tgt Ion: 84 Resp: 822  
 Ion Ratio Lower Upper  
 84 100  
 86 56.3 29.1 89.1  
 49 132.6 122.1 182.1



#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.000 min  
 Lab File: 080907.D  
 Acq: 09 Aug 2023 08:31 am

Tgt Ion: 62 Resp: 74  
 Ion Ratio Lower Upper  
 62 100  
 98 6.1 0.0 37.3

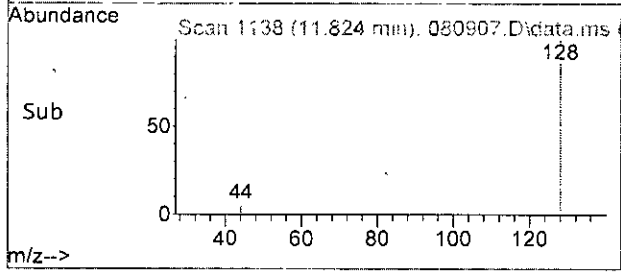
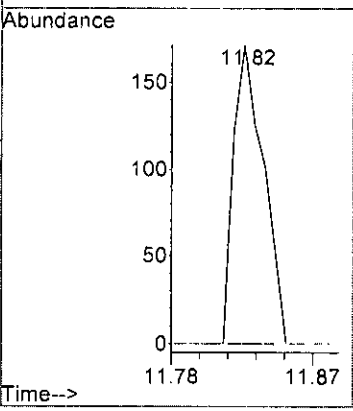
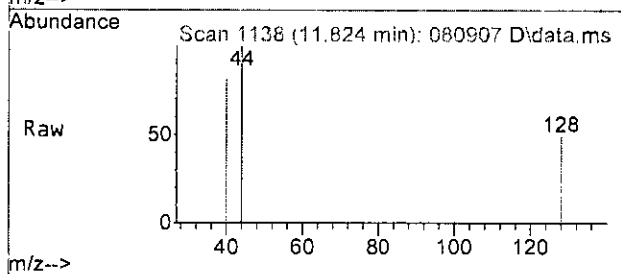




#75  
 Naphthalene  
 Concen: 0.036 ppb  
 RT: 11.82 min Scan# 1138  
 Delta R.T. -0.007 min  
 Lab File: 080907.D  
 Acq: 09 Aug 2023 08:31 am

Tgt Ion: 128 Resp: 237

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	40.8
127	0.0	0.0	43.7



Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	85622	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	61218	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	30538	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	22541	9.702	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.00%	
30) 1,2-Dichloroethane-d4	4.45	102	5064	9.843	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	98.40%	
35) Toluene-d8	6.10	98	89845	9.445	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	94.40%	
57) 4-Bromofluorobenzene	8.50	95	25653	9.327	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	93.30%	
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	91	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	0.00		0	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D. d			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.34	45	91	No Calib	#		
11) Acetone	2.33	58	263	N.D.			
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.69	84	822	0.394	ppb	88	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	151	N.D.			
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	74	Below Cal		97	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	0.00		0	N.D.			
32) Trichloroethene	0.00		0	N.D. d			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

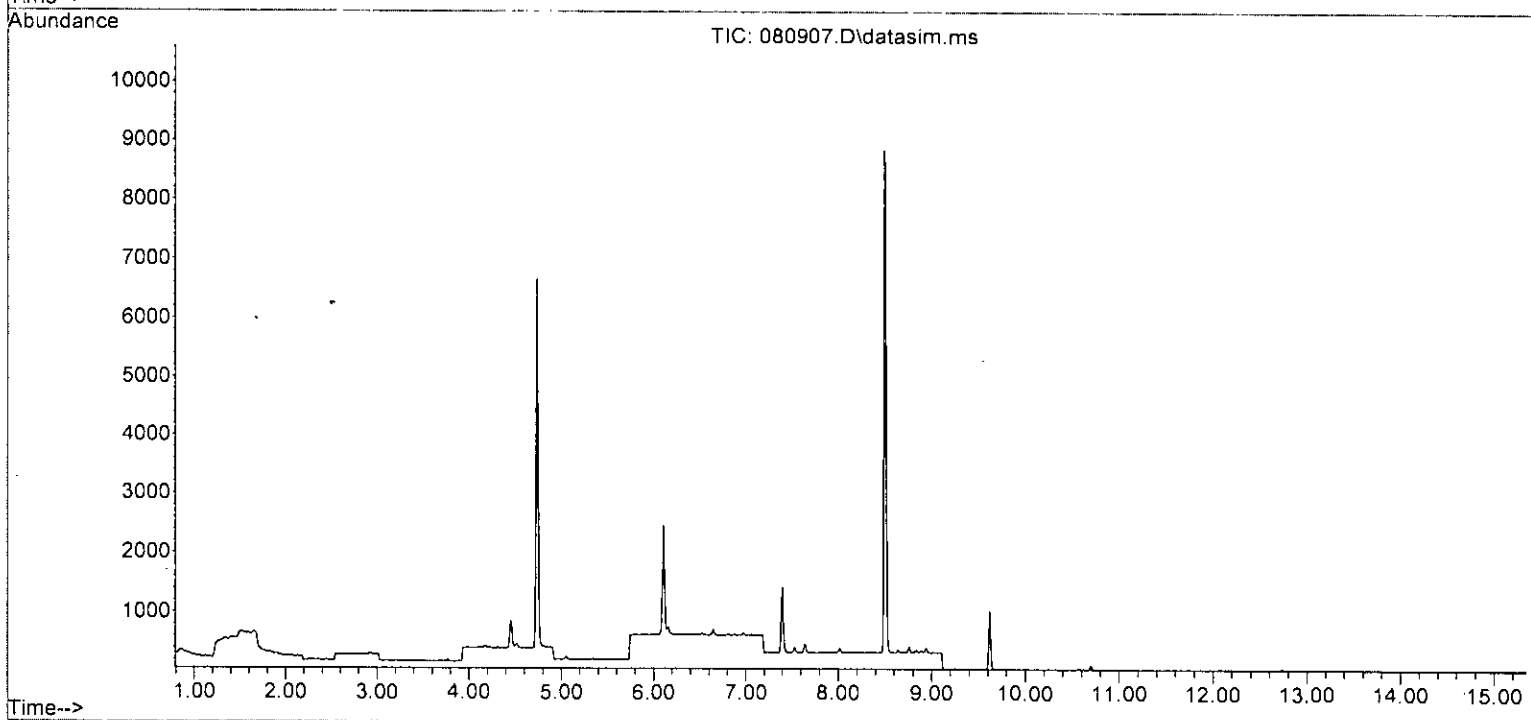
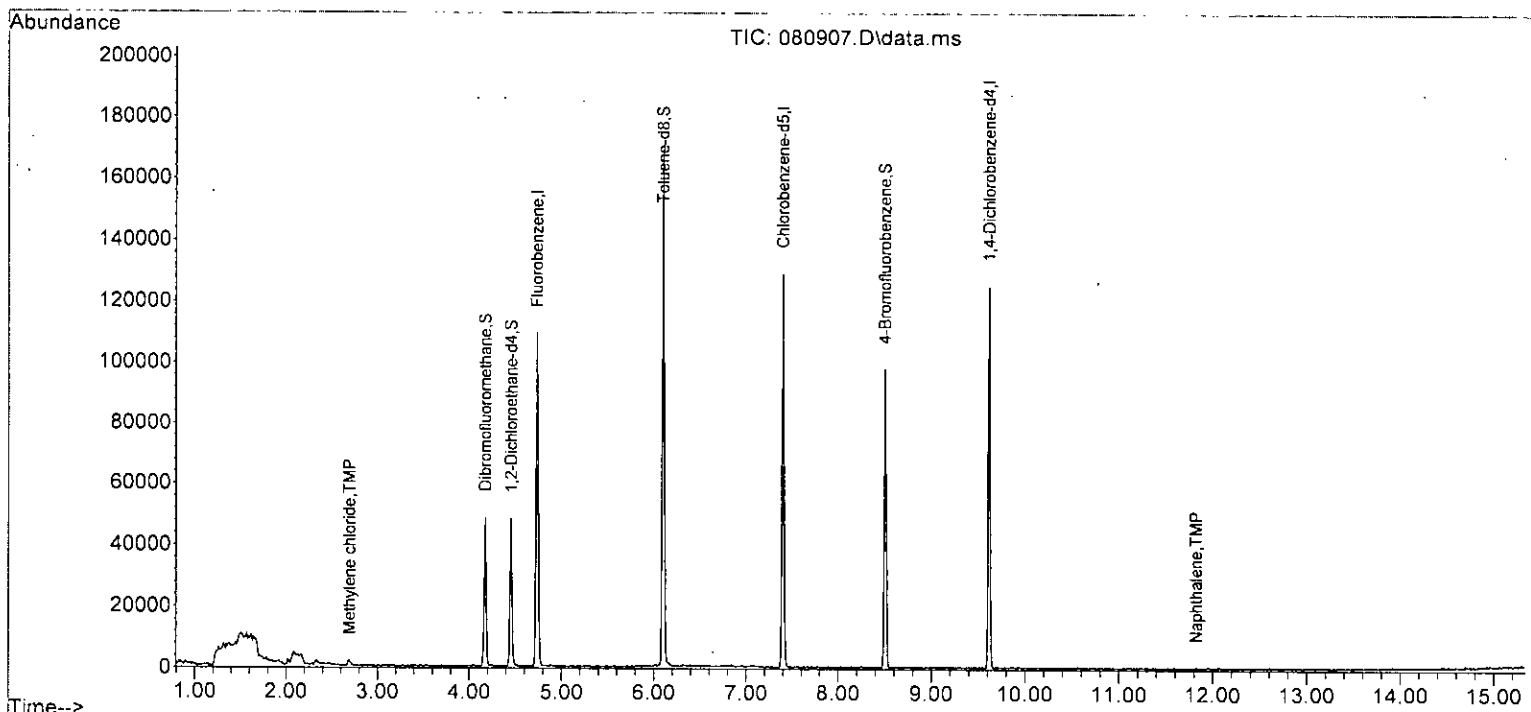
Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	65		Below Cal	100
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.52	83	23		N.D.	
43) 2-Hexanone	6.76	43	179		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.64	164	35		Below Cal	94
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	85		Below Cal	98
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	77		Below Cal	100
52] o-Xylene	8.01	106	32		Below Cal	90
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.37	105	32		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.76	91	190		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.76	91	190		N.D.	
64) 4-Chlorotoluene	8.76	91	190		N.D.	
65) tert-Butylbenzene	9.23	119	38		N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	38		N.D.	
67) sec-Butylbenzene	9.46	105	94		N.D.	
68) p-Isopropyltoluene	9.60	119	89		N.D.	
69) 1,3-Dichlorobenzene	9.63	146	26		N.D.	
70) 1,4-Dichlorobenzene	9.63	146	26		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.59	180	126		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.82	128	237	0.036	ppb	68
76) 1,2,3-Trichlorobenzene	12.07	180	62		N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080907.D  
 Acq On : 09 Aug 2023 08:31 am  
 Operator : MD  
 Sample : 03-1811 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

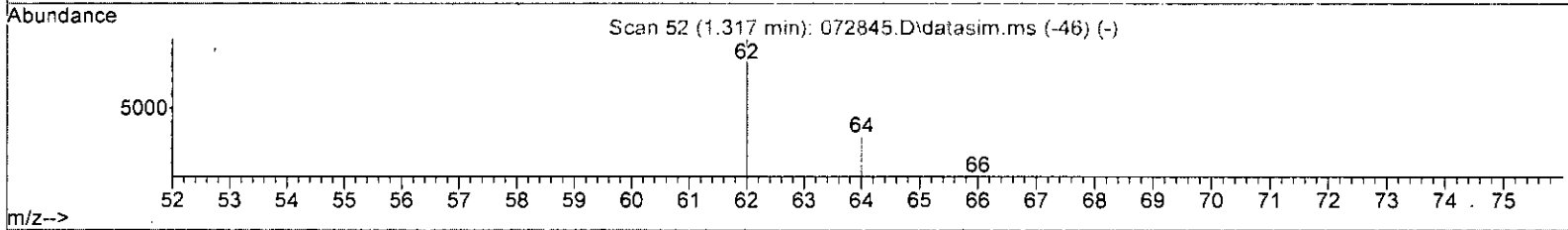
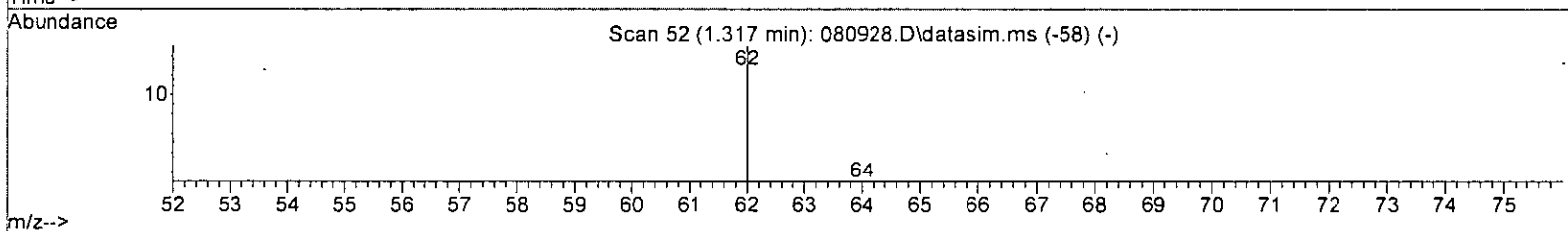
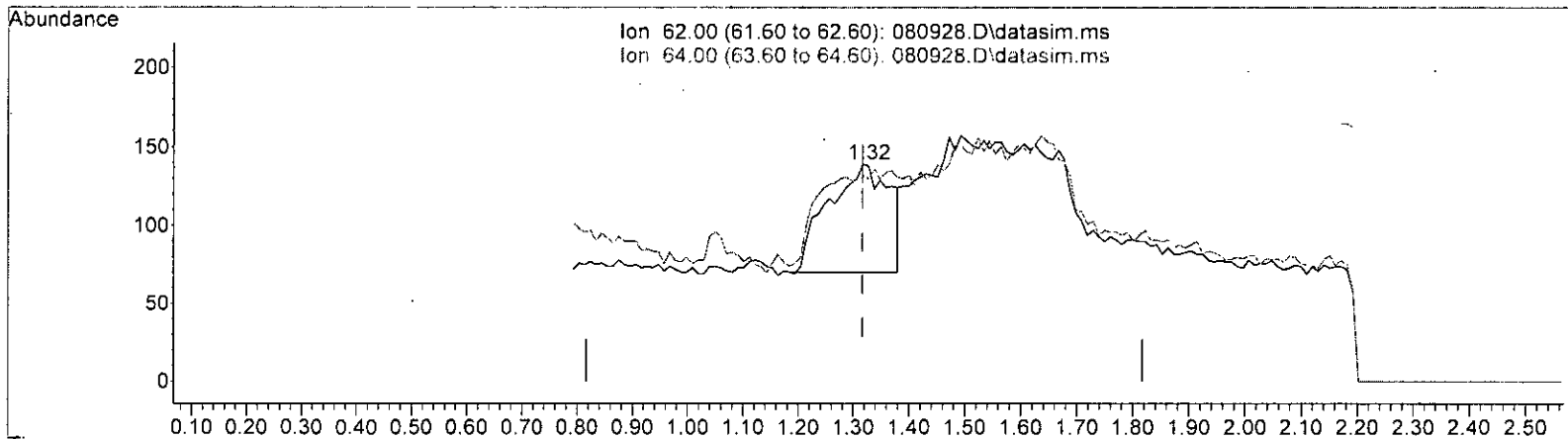
Quant Time: Aug 10 08:05:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



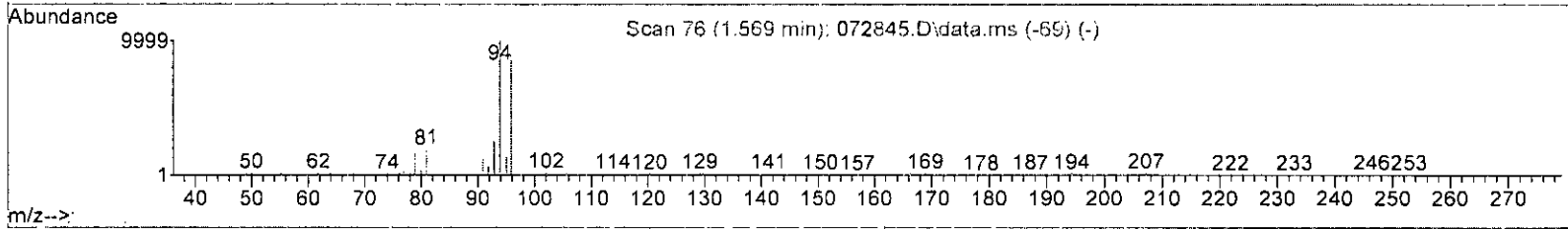
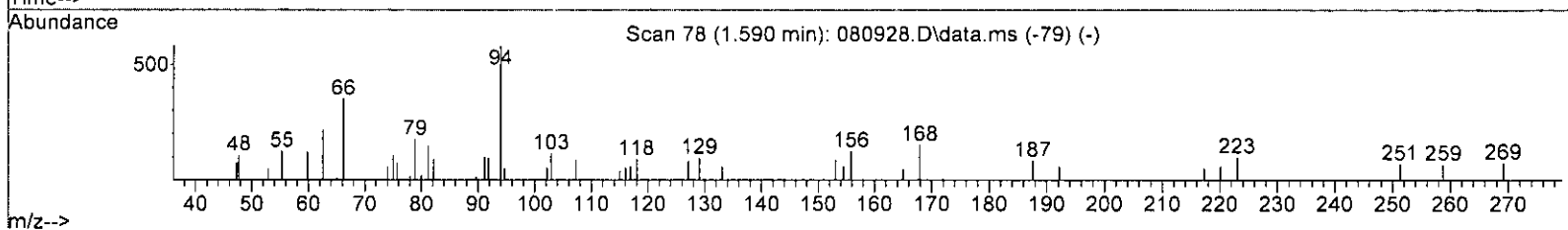
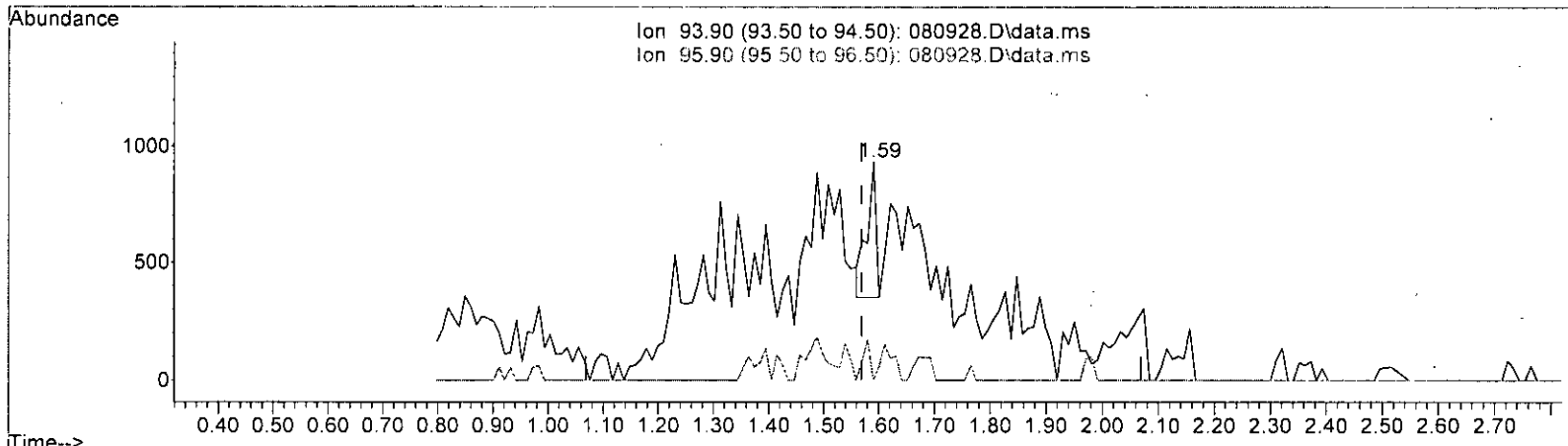
TIC: 080928.D\data.ms

(6) Vinyl chloride (TMP)		
1.317min (+ 0.000)	0.084	ppb
response	532	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	84.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



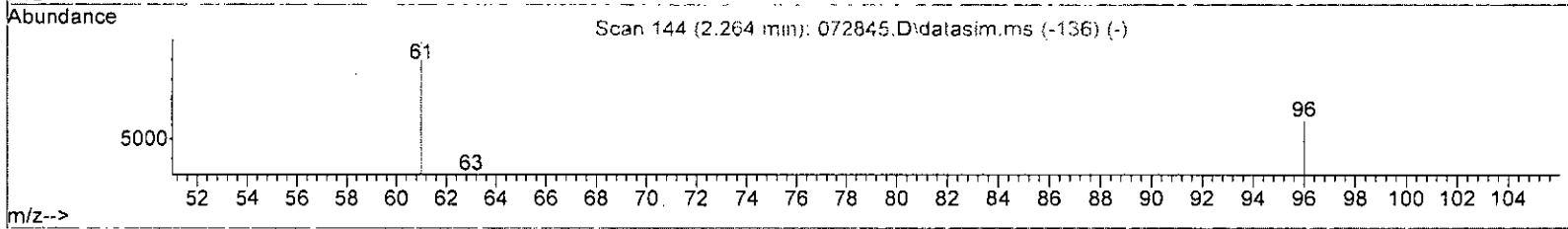
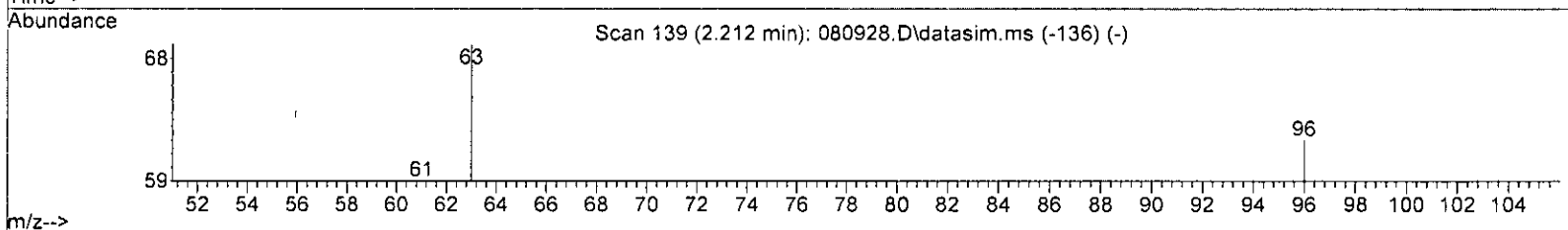
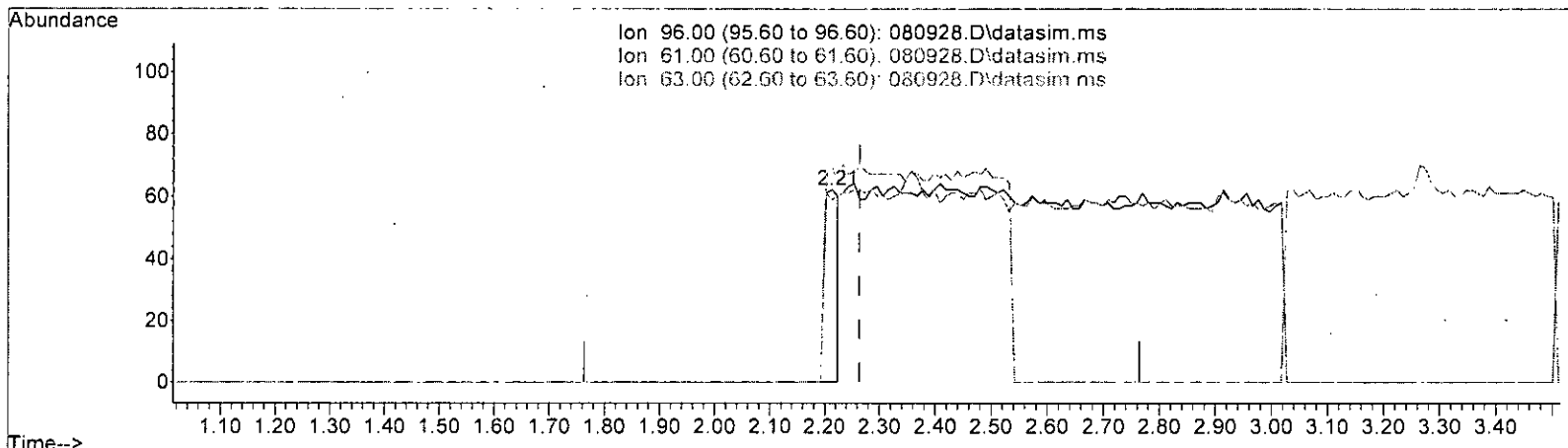
TIC: 080928.D\data.ms

(7) Bromomethane (TMP)		
Retention Time	Concentration	Response
1.590min (+ 0.021)	0.211 ppb	654
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 080928.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.212min (-0.052) 0.041 ppb

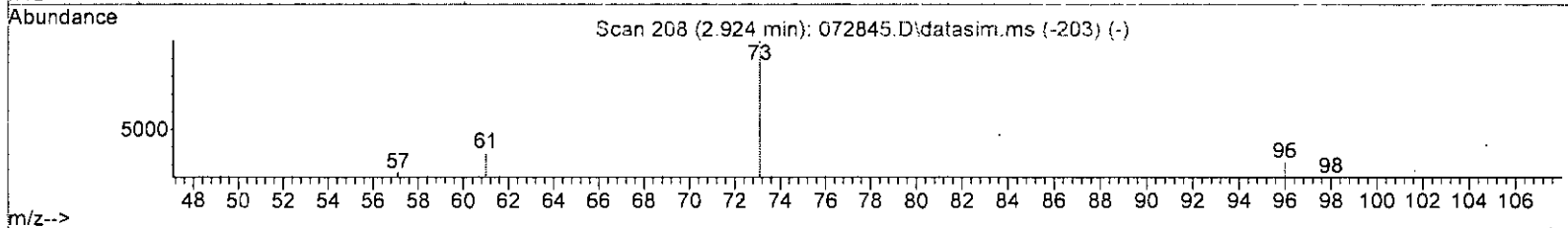
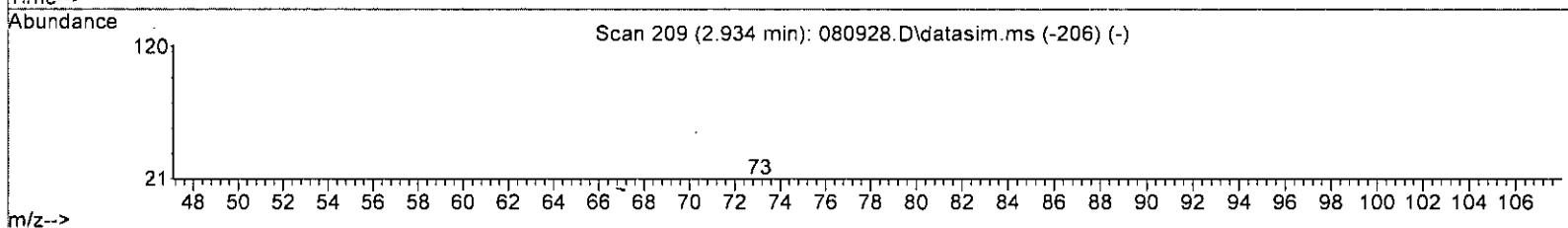
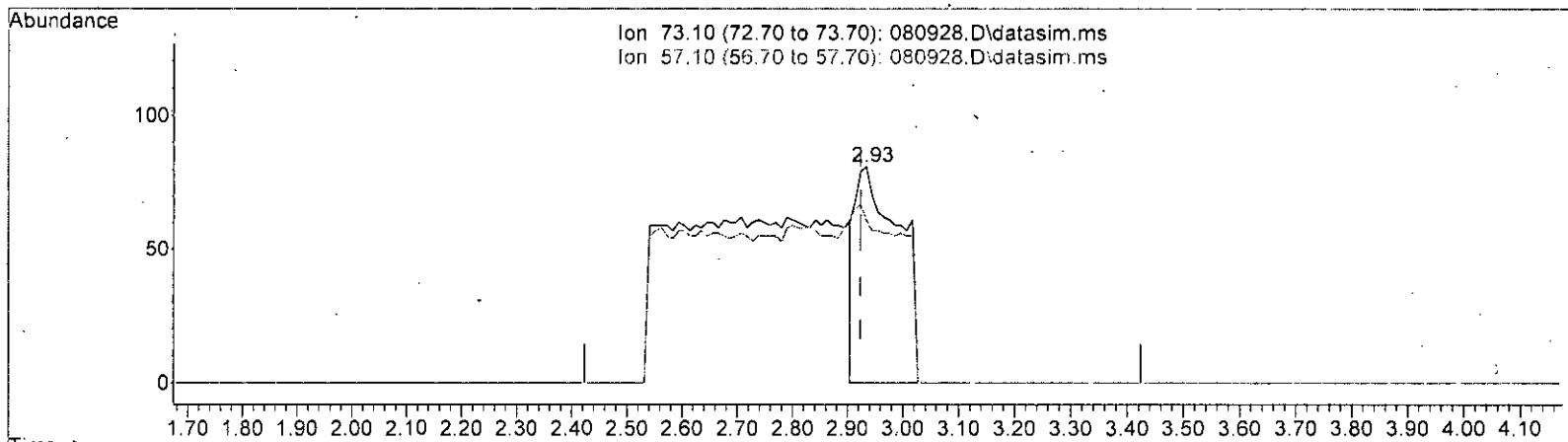
response	113
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 95.16#
63.00	54.90 111.29#
0.00	0.00 0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 080928.D\data.ms

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

2.934min (+ 0.010) 0.087 ppb

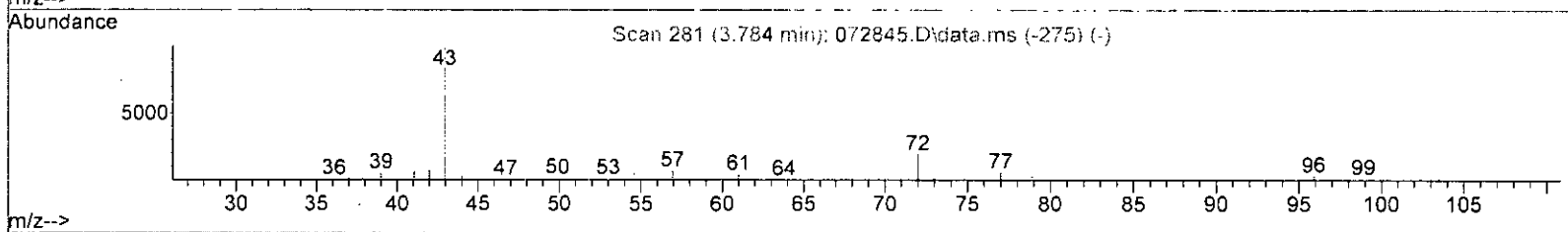
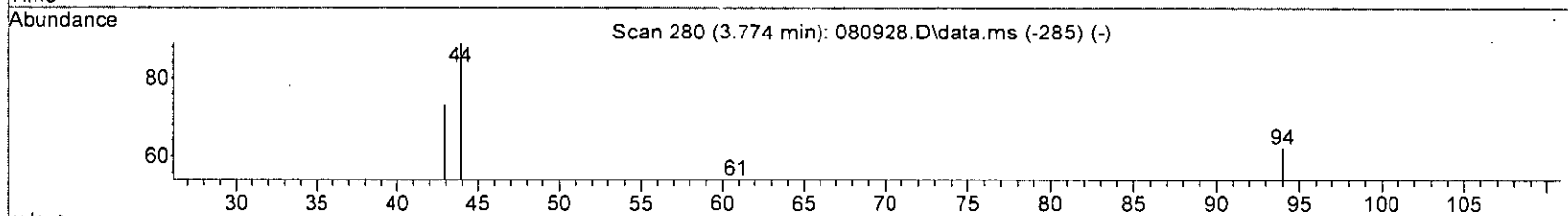
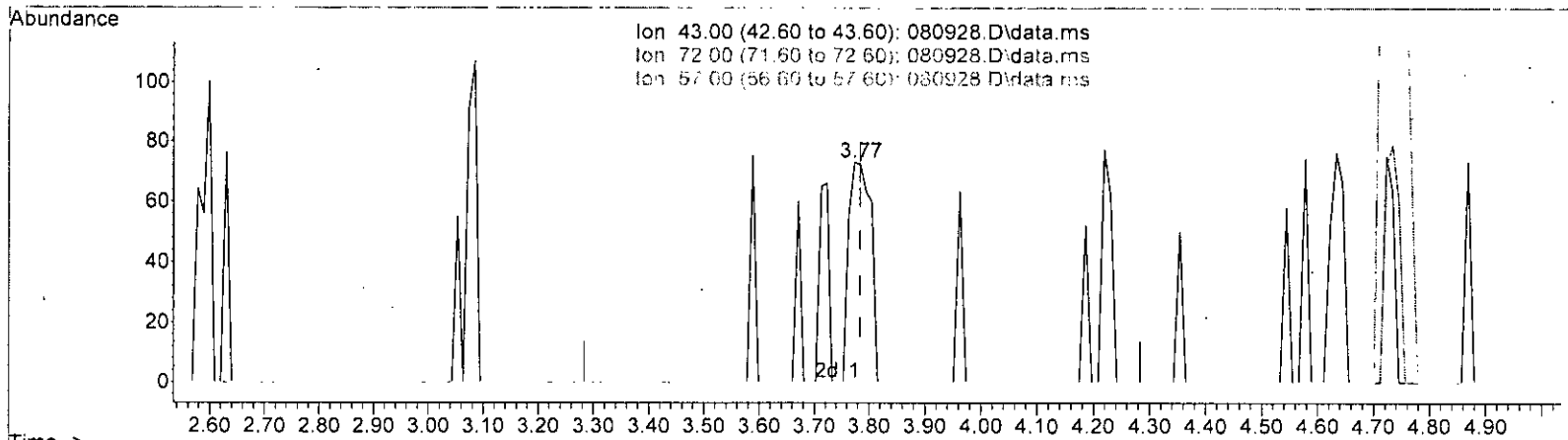
response 447

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	75.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



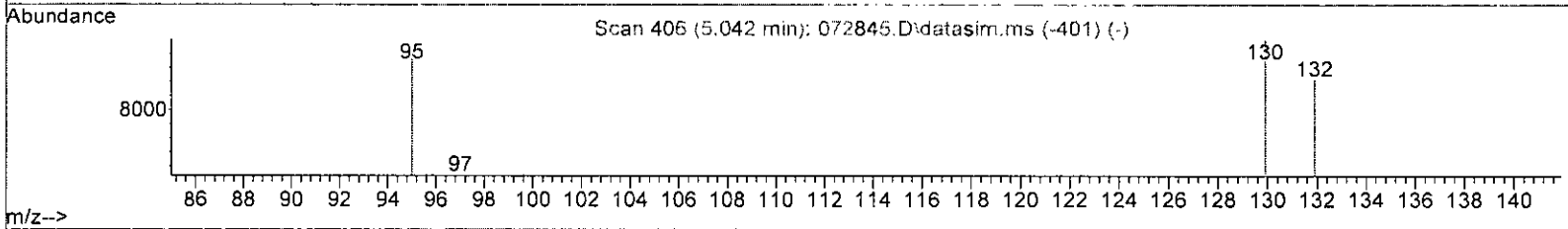
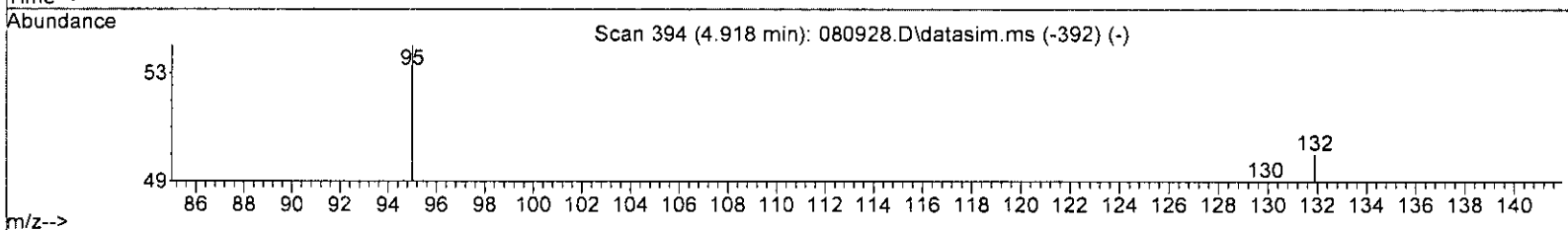
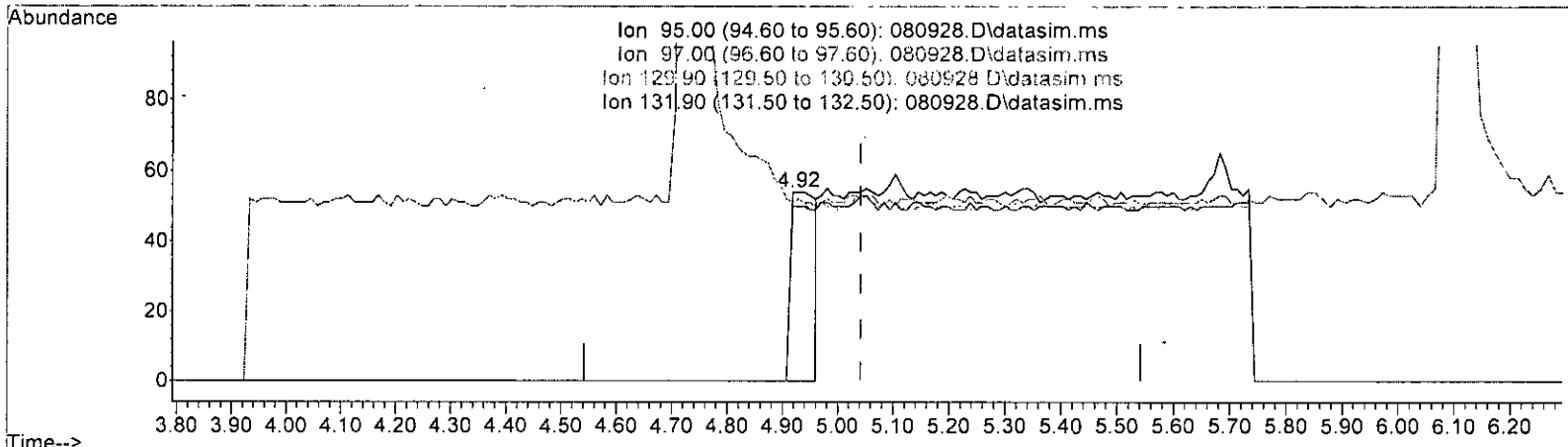
TIC: 080928.D\data.ms

(24) 2-Butanone (MEK) (TMP)		
3.774min (-0.010) 0.126 ppb		
response	200	
Ion	Exp%	Act%
43.00	100.00	100.00
72.00	17.30	0.00
57.00	7.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 080928.D\data.ms

(32) Trichloroethene (TMP)  
 4.918min (-0.124) 0.055 ppb

response	Ion	Exp%	Act%
170	95.00	100.00	100.00
	97.00	60.80	1.85#
	129.90	98.60	90.74
	131.90	86.60	92.59

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

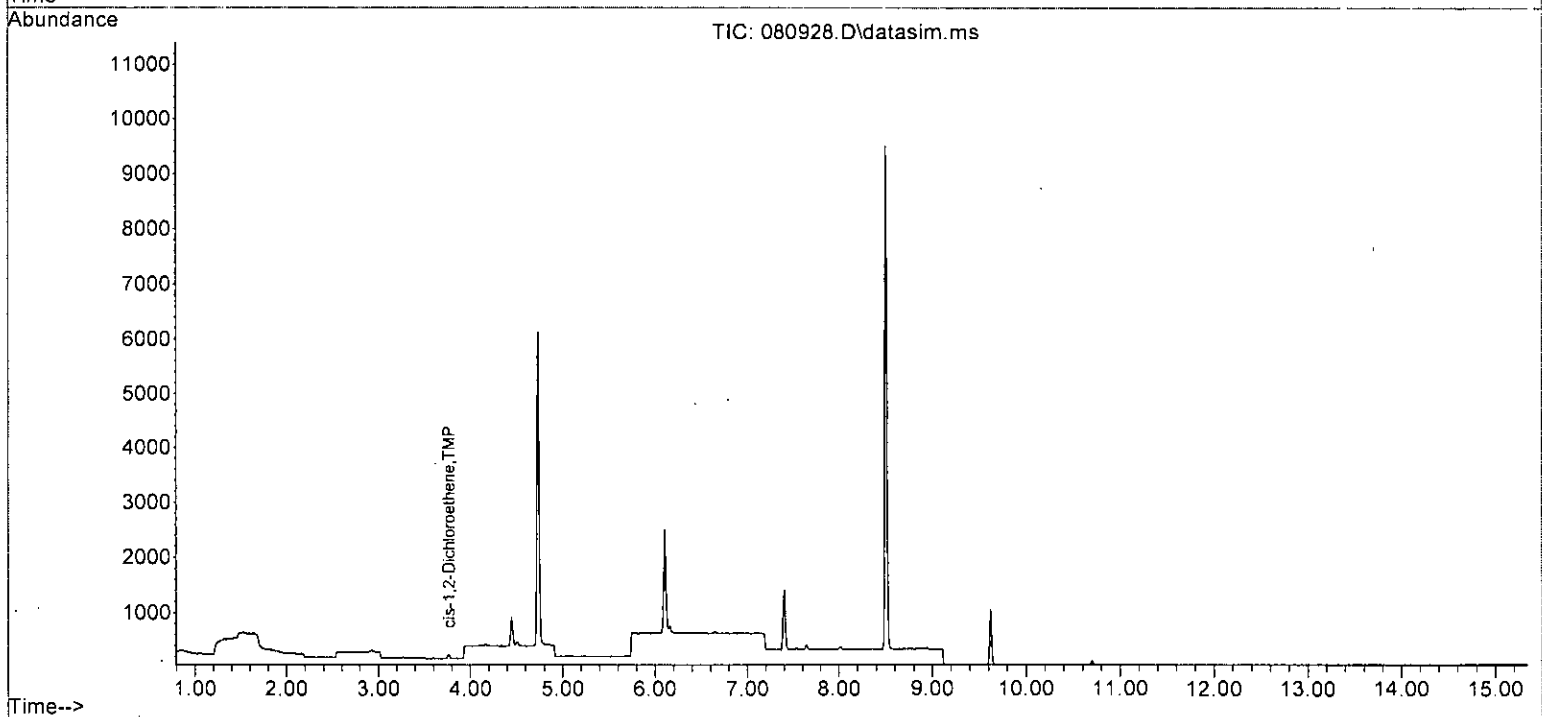
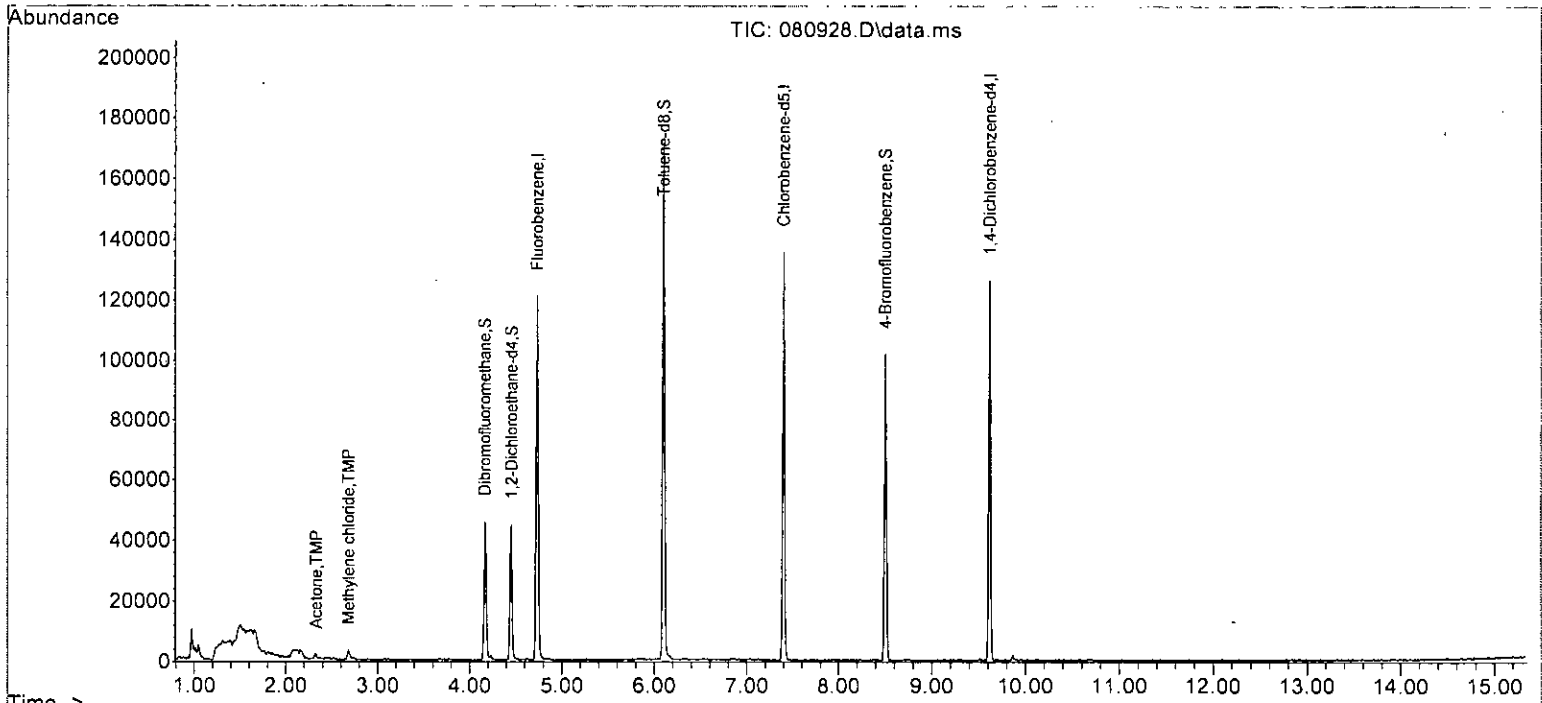
Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

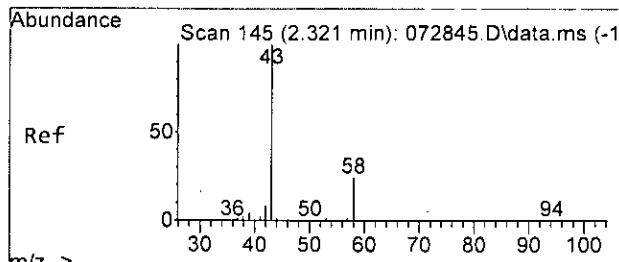
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	82259	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	62681	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	30353	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	23152	10.372	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	= 103.70%		
30) 1,2-Dichloroethane-d4	4.45	102	5395	10.915	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	= 109.10%		
35) Toluene-d8	6.10	98	91357	9.996	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	= 100.00%		
57) 4-Bromofluorobenzene	8.50	95	26760	9.788	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	= 97.90%		
Target Compounds						
11) Acetone	2.33	58	433	1.330	ppb	92
14) Methylene chloride	2.68	84	1400	0.699	ppb	89
22] cis-1,2-Dichloroethene	3.77	96	49	0.021	ppb #	77
26] 1,2-Dichloroethane (EDC)	4.52	62	66	Below Cal		94
31] Benzene	4.50	78	54	Below Cal		91
40] Toluene	6.16	92	71	Below Cal		93
45] Tetrachloroethene	6.64	164	22	Below Cal #		72
49] Ethylbenzene	7.53	91	37	Below Cal		90
51] m,p-Xylene	7.64	106	41	Below Cal		95
52] o-Xylene	8.01	106	24	Below Cal		98
-----						

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

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

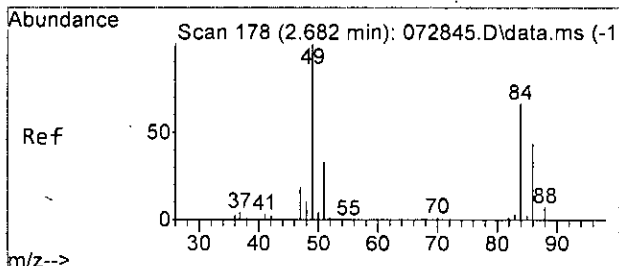
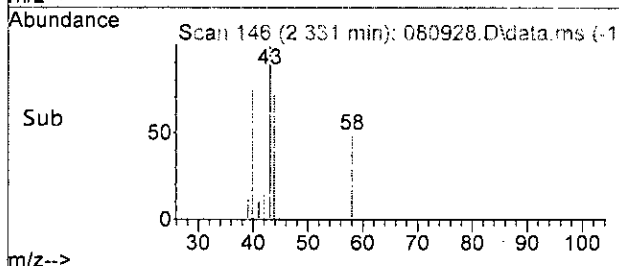
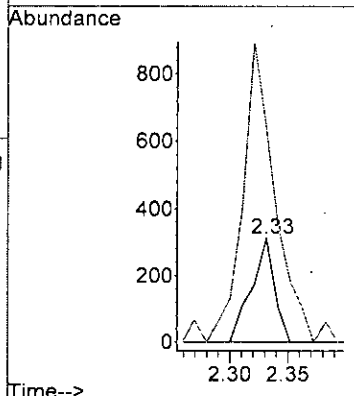
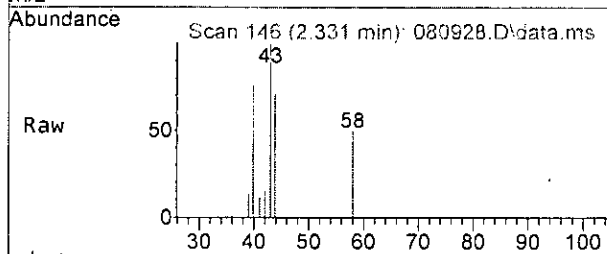
Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





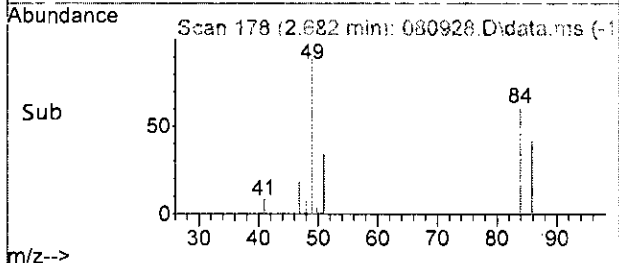
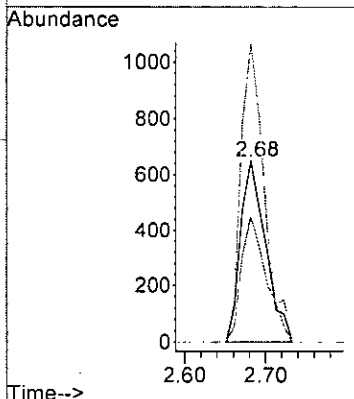
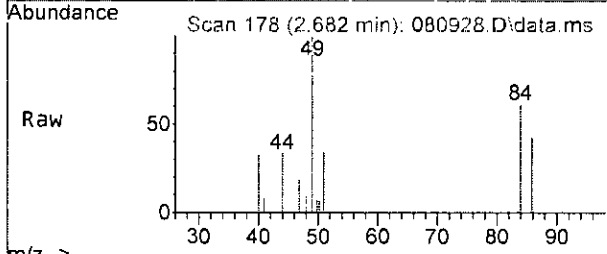
#11  
 Acetone  
 Concen: 1.330 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 080928.D  
 Acq: 09 Aug 2023 06:00 pm

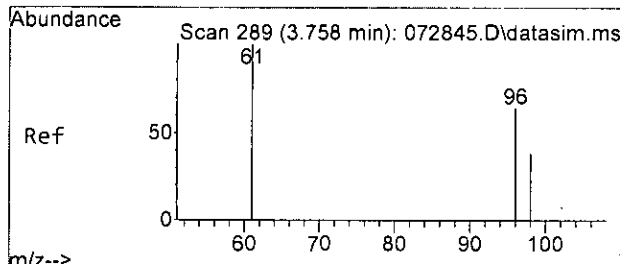
Tgt Ion: 58 Resp: 433  
 Ion Ratio Lower Upper  
 58 100  
 43 412.7 363.1 423.1



#14  
 Methylene chloride  
 Concen: 0.699 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 080928.D  
 Acq: 09 Aug 2023 06:00 pm

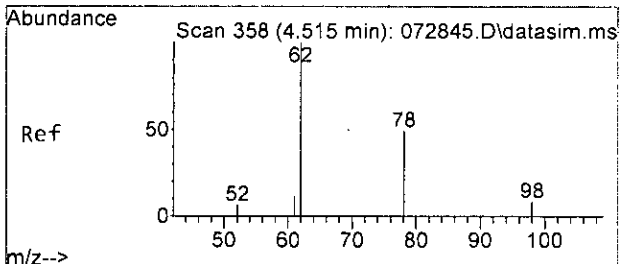
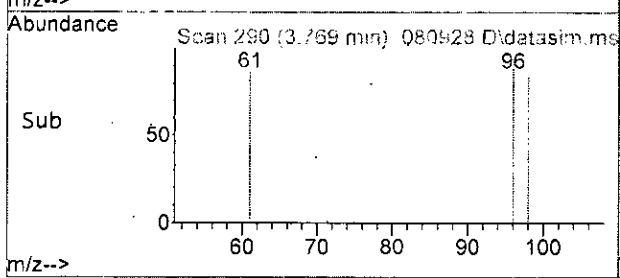
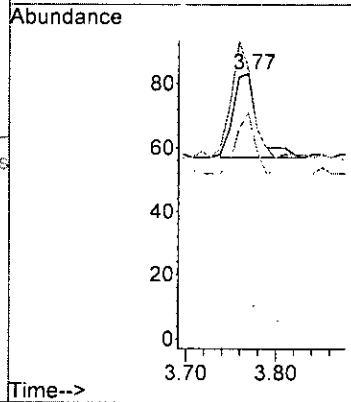
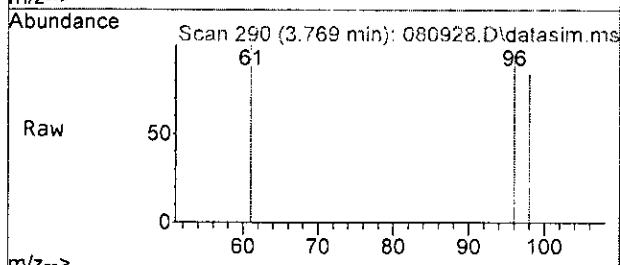
Tgt Ion: 84 Resp: 1400  
 Ion Ratio Lower Upper  
 84 100  
 86 69.3 29.1 89.1  
 49 164.1 122.1 182.1





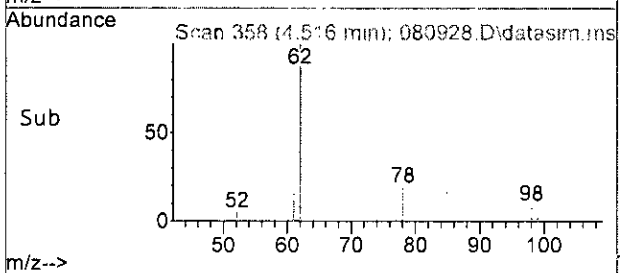
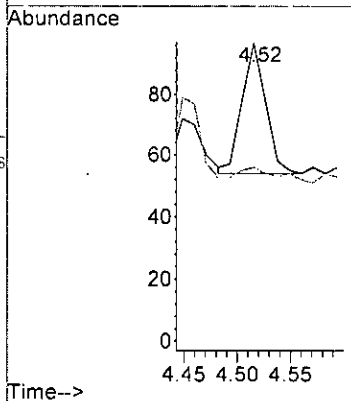
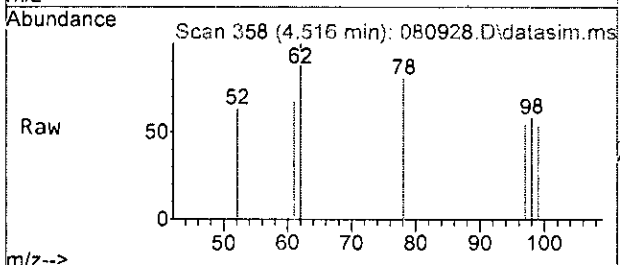
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.021 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 080928.D  
 Acq: 09 Aug 2023 06:00 pm

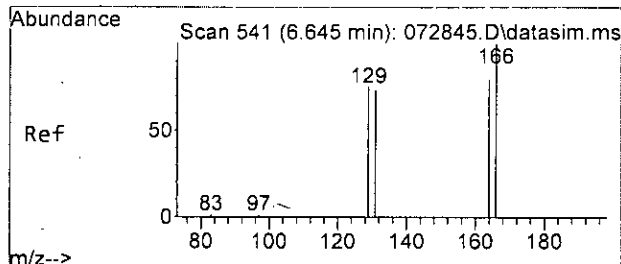
Tgt Ion: 96 Resp: 49  
 Ion Ratio Lower Upper  
 96 100  
 61 103.8 112.0 172.0#  
 98 73.1 38.6 98.6



#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.001 min  
 Lab File: 080928.D  
 Acq: 09 Aug 2023 06:00 pm

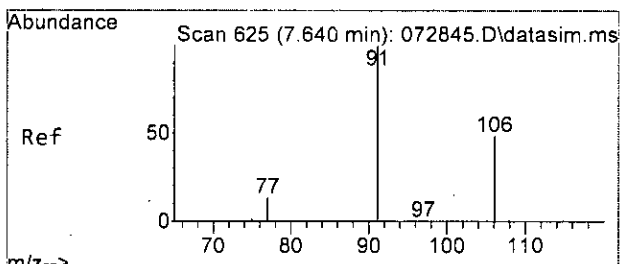
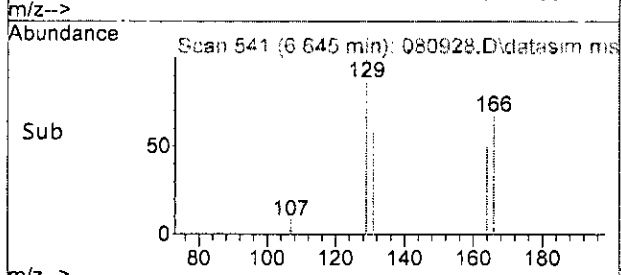
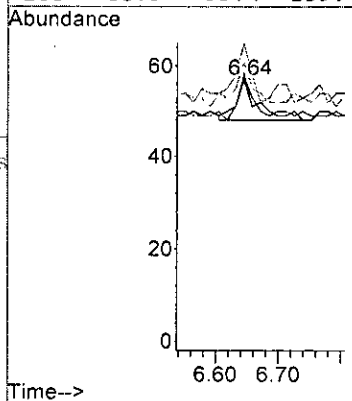
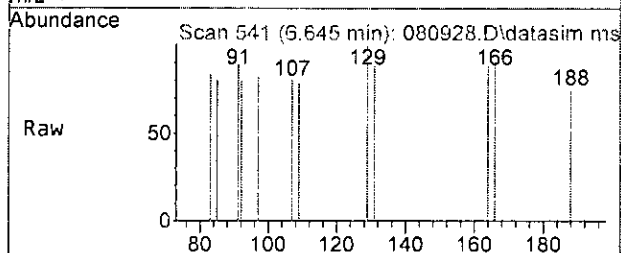
Tgt Ion: 62 Resp: 66  
 Ion Ratio Lower Upper  
 62 100  
 98 9.3 0.0 37.3





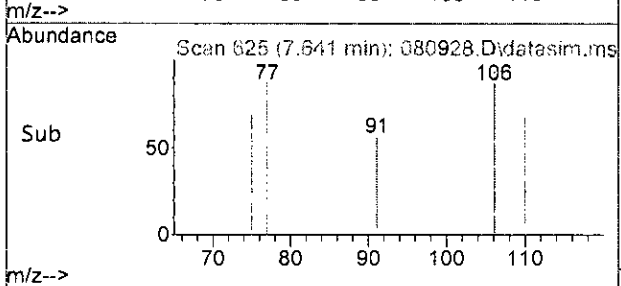
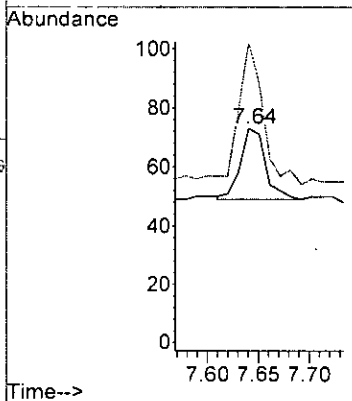
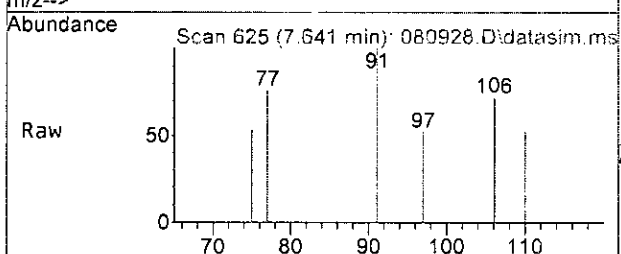
#45  
 Tetrachloroethene  
 Concen: Below Cal  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 080928.D  
 Acq: 09 Aug 2023 06:00 pm

Tgt Ion	Resp	Lower	Upper
164	100		
129	133.3	60.7	120.7#
131	88.9	60.4	120.4
166	88.9	99.4	159.4#



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 080928.D  
 Acq: 09 Aug 2023 06:00 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	200.0	178.3	238.3





Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	82259	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	62681	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	30353	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	23152	10.372	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	103.70%	
30) 1,2-Dichloroethane-d4	4.45	102	5395	10.915	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	109.10%	
35) Toluene-d8	6.10	98	91357	9.996	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	100.00%	
57) 4-Bromofluorobenzene	8.50	95	26760	9.788	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	97.90%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.24	50	1125	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.33	58	433	1.330	ppb		92
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	1400	0.699	ppb		89
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D. d			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22] cis-1,2-Dichloroethene	3.77	96	49	0.021	ppb	#	77
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	0.00		0	N.D. d			
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	66	Below Cal			94
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	54	Below Cal			91
32) Trichloroethene	0.00		0	N.D. d			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

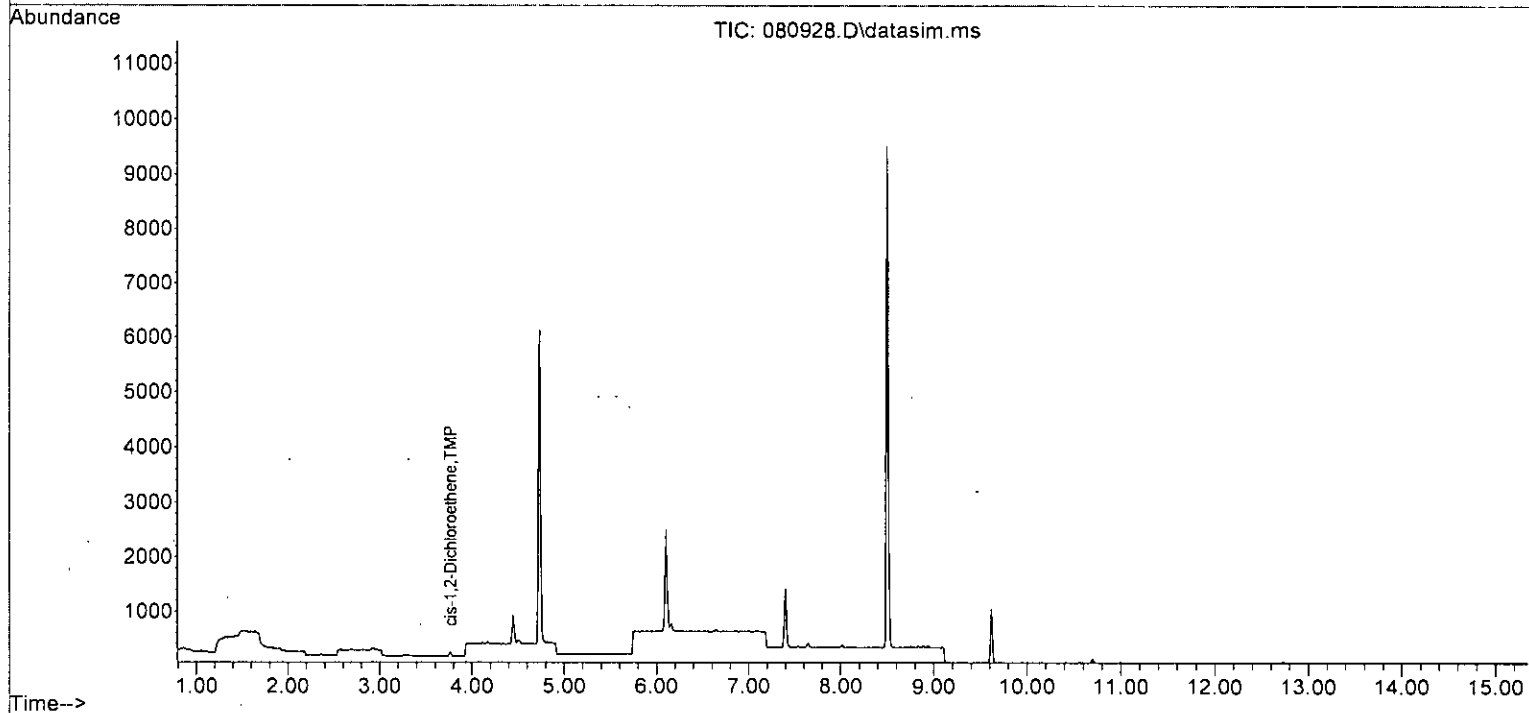
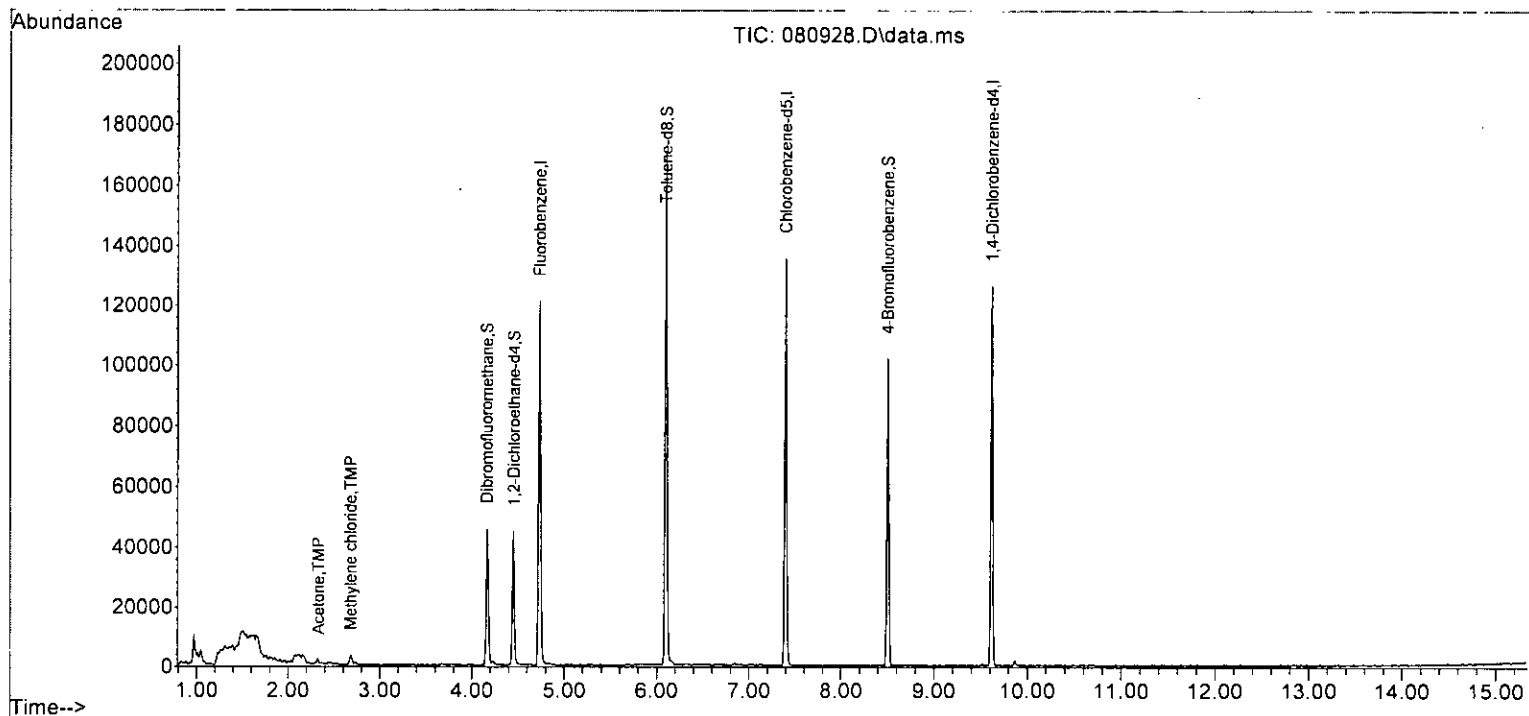
Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	71	Below Cal		93
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	6.80	43	120		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.64	164	22	Below Cal	#	72
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.53	91	37	Below Cal		90
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	41	Below Cal		95
52] o-Xylene	8.01	106	24	Below Cal		98
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D.	
64) 4-Chlorotoluene	0.00		0		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D.	
67) sec-Butylbenzene	0.00		0		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080928.D  
 Acq On : 09 Aug 2023 06:00 pm  
 Operator : MD  
 Sample : 308141-01  
 Misc : water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:46 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080929.D  
 Acq On : 09 Aug 2023 06:23 pm  
 Operator : MD  
 Sample : 308141-01 ms  
 Misc : water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:50 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	77977	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	61070	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	31025	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	22687	10.722	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	107.20%		
30) 1,2-Dichloroethane-d4	4.45	102	4936	10.534	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	105.30%		
35) Toluene-d8	6.10	98	88049	10.163	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	101.60%		
57) 4-Bromofluorobenzene	8.50	95	27370	9.795	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	97.90%		
Target Compounds							
							Qvalue
2) Ethanol	2.32	45	223	No Calib			
4) Dichlorodifluoromethane	1.12	85	77944	11.031	ppb	100	
5) Chloromethane	1.26	50	75788	10.241	ppb	99	
6] Vinyl chloride	1.33	62	61394	10.242	ppb	97	
7) Bromomethane	1.58	94	40214	13.689	ppb	82	
8] Chloroethane	1.65	64	29420	11.696	ppb	99	
9) Trichlorofluoromethane	1.85	101	106222	11.377	ppb	98	
10) 2-Propanol	2.32	45	223	No Calib			
11) Acetone	2.33	58	10825	35.069	ppb	92	
12] 1,1-Dichloroethene	2.27	96	23048	10.927	ppb	96	
13) Hexane	3.16	57	31308	10.196	ppb	94	
14) Methylene chloride	2.69	84	19835	10.443	ppb	97	
15) t-Butyl alcohol (TBA)	2.81	59	13930	54.960	ppb	96	
16] Methyl t-butyl ether (...)	2.93	73	50824	10.390	ppb	94	
17] trans-1,2-Dichloroethene	2.92	96	21681	10.914	ppb	# 82	
18) Diisopropyl ether (DIPE)	3.35	45	73183	10.026	ppb	94	
19] 1,1-Dichloroethane	3.27	63	38758	10.229	ppb	97	
20) Ethyl t-butyl ether (E...)	3.65	87	21714	10.559	ppb	93	
21) 2,2-Dichloropropane	3.76	77	23361	11.150	ppb	95	
22] cis-1,2-Dichloroethene	3.77	96	23283	10.340	ppb	97	
23) Chloroform	4.04	83	37701	10.647	ppb	98	
24) 2-Butanone (MEK)	3.78	43	64676	43.066	ppb	99	
25) t-Amyl methyl ether (T...)	4.60	73	48637	10.504	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.52	62	33819	11.440	ppb	100	
27] 1,1,1-Trichloroethane	4.19	97	35504	11.222	ppb	97	
28) 1,1-Dichloropropene	4.33	75	28689	10.717	ppb	97	
29) Carbon tetrachloride	4.33	117	31296	11.322	ppb	95	
31] Benzene	4.50	78	81072	10.707	ppb	99	
32] Trichloroethene	5.04	95	24576	10.581	ppb	97	
33) 1,2-Dichloropropane	5.24	63	20945	9.972	ppb	100	
34) Bromodichloromethane	5.48	83	28474	11.165	ppb	99	
36) Dibromomethane	5.34	93	14181	10.480	ppb	94	

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080929.D  
 Acq On : 09 Aug 2023 06:23 pm  
 Operator : MD  
 Sample : 308141-01 ms  
 Misc : water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

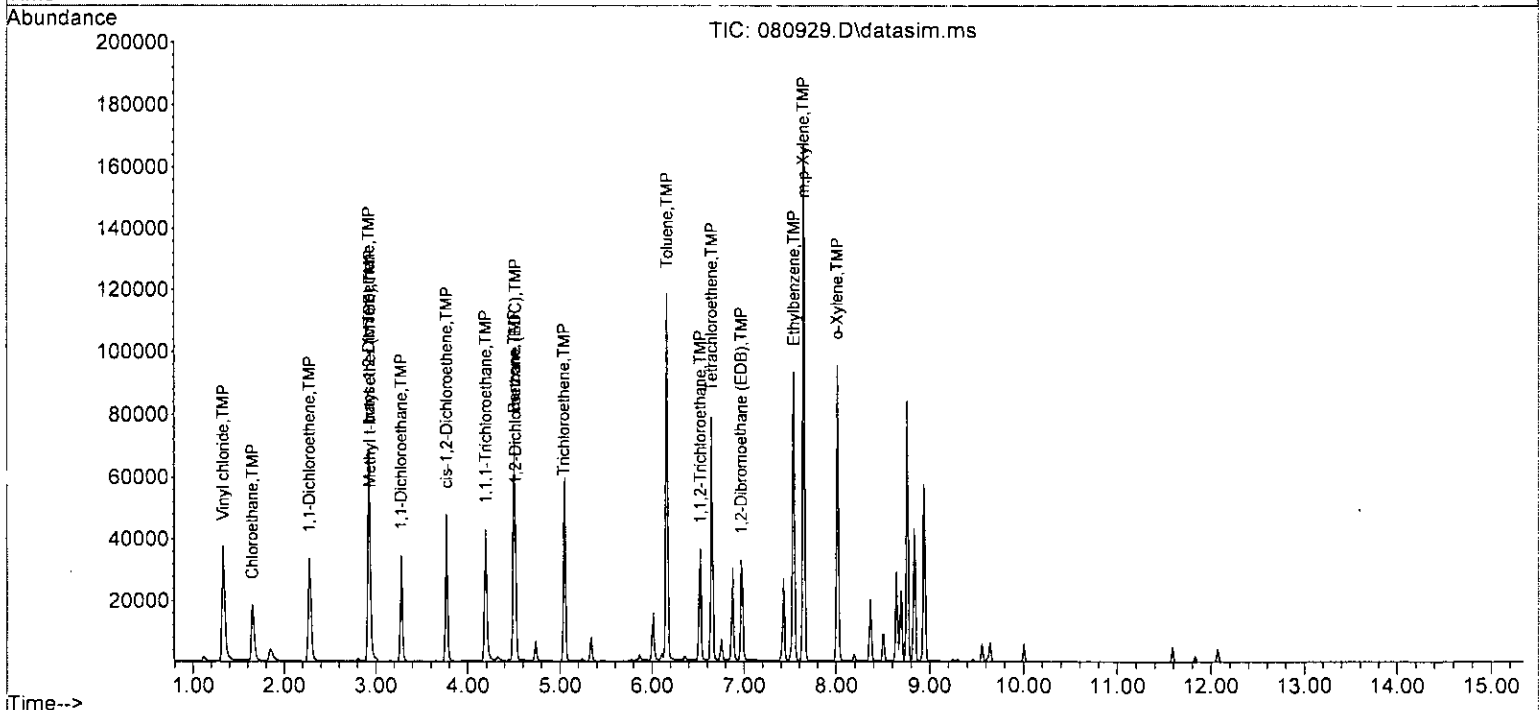
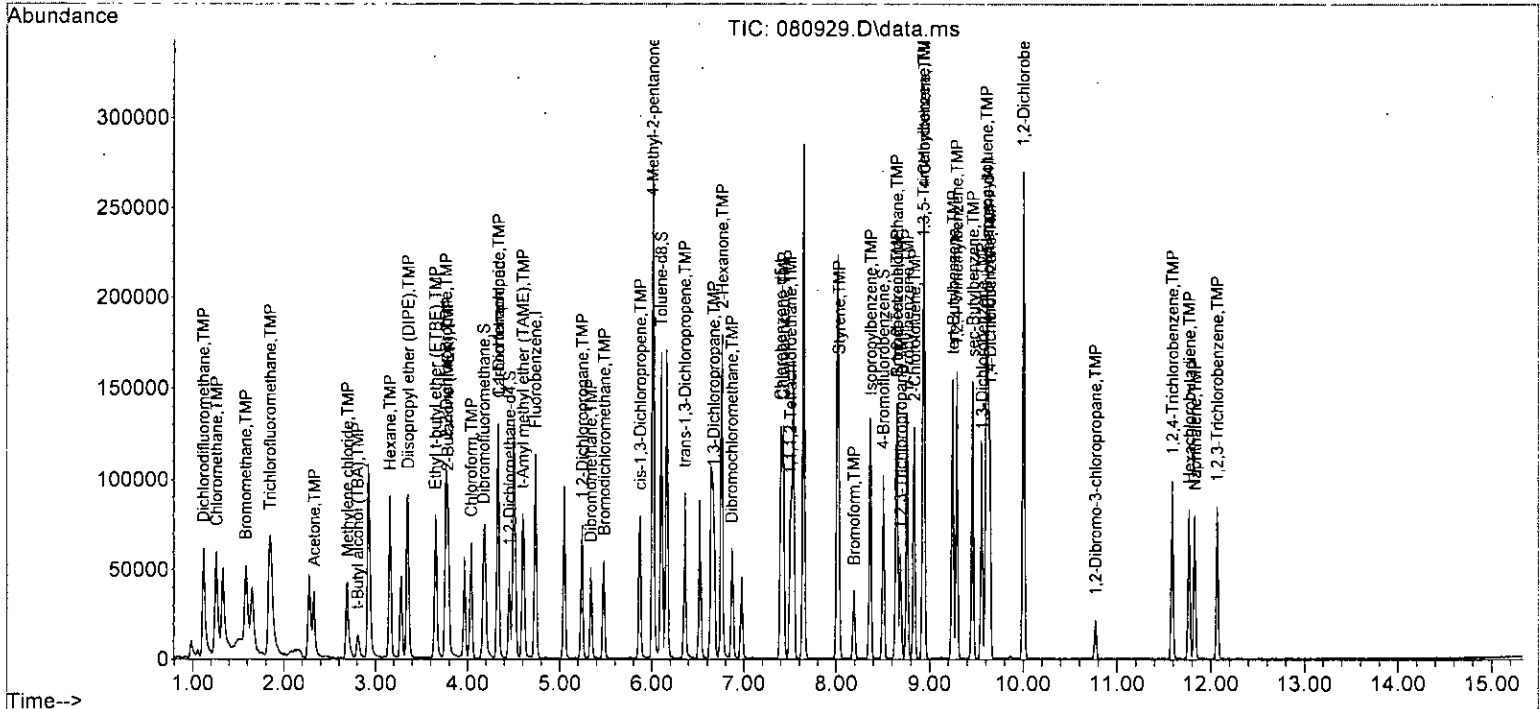
Quant Time: Aug 10 08:06:50 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	24037	54.603	ppb #	85
38) cis-1,3-Dichloropropene	5.87	75	37688	10.754	ppb	94
40] Toluene	6.16	92	63413	10.531	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	33704	10.466	ppb	99
42] 1,1,2-Trichloroethane	6.52	83	19870	10.059	ppb #	70
43) 2-Hexanone	6.76	43	123465	44.847	ppb	95
44) 1,3-Dichloropropane	6.67	76	35334	10.120	ppb	93
45] Tetrachloroethene	6.64	164	26821	11.255	ppb	97
46) Dibromochloromethane	6.87	129	28405	10.706	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	26833	10.469	ppb	98
48) Chlorobenzene	7.43	112	58458	10.285	ppb	98
49] Ethylbenzene	7.54	91	97158	10.748	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	22227	11.059	ppb	98
51] m,p-Xylene	7.64	106	76655	21.674	ppb	98
52] o-Xylene	8.01	106	37035	10.630	ppb	99
53) Styrene	8.03	104	56603	10.225	ppb	99
54) Isopropylbenzene	8.37	105	86156	10.322	ppb	99
55) Bromoform	8.19	173	16486	11.299	ppb	98
58) n-Propylbenzene	8.76	91	101915	9.878	ppb	98
59) Bromobenzene	8.65	156	25697	10.170	ppb	99
60) 1,3,5-Trimethylbenzene	8.93	105	73253	10.217	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.65	83	25183	10.575	ppb	99
62) 1,2,3-Trichloropropane	8.69	75	18140	8.888	ppb	95
63) 2-Chlorotoluene	8.84	91	59883	9.911	ppb	97
64) 4-Chlorotoluene	8.94	91	70736	10.101	ppb	100
65) tert-Butylbenzene	9.25	119	67389	10.282	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	76049	10.030	ppb	97
67) sec-Butylbenzene	9.46	105	94994	9.850	ppb	95
68) p-Isopropyltoluene	9.61	119	83527	10.376	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	46429	10.369	ppb	96
70) 1,4-Dichlorobenzene	9.64	146	45289	9.893	ppb	97
71) 1,2-Dichlorobenzene	10.00	146	43513	10.228	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	4096	9.057	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	26986	9.583	ppb	95
74) Hexachlorobutadiene	11.77	225	15820	10.437	ppb	97
75) Naphthalene	11.83	128	58843	8.873	ppb	97
76) 1,2,3-Trichlorobenzene	12.07	180	24106	9.411	ppb	97

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

Data Path : Y:\Proc\_GCMS13\08-09-23\  
 Data File : 080929.D  
 Acq On : 09 Aug 2023 06:23 pm  
 Operator : MD  
 Sample : 308141-01 ms  
 Misc : water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 10 08:06:50 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



**EPA 8260D**  
**Sample Data**

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080924.D  
 Acq On : 09 Aug 2023 03:14 pm  
 Operator : MD  
 Sample : 308148-01 1/100  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:05:06 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

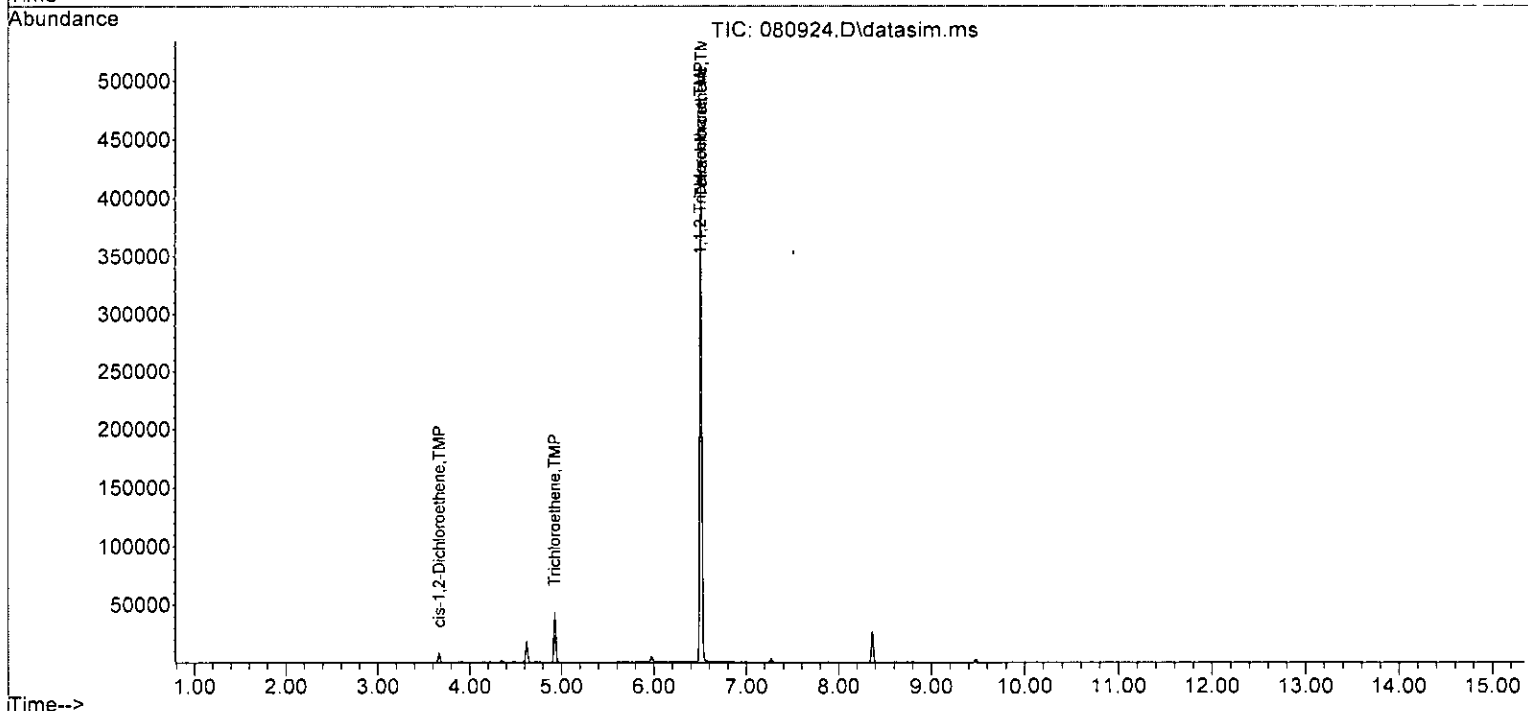
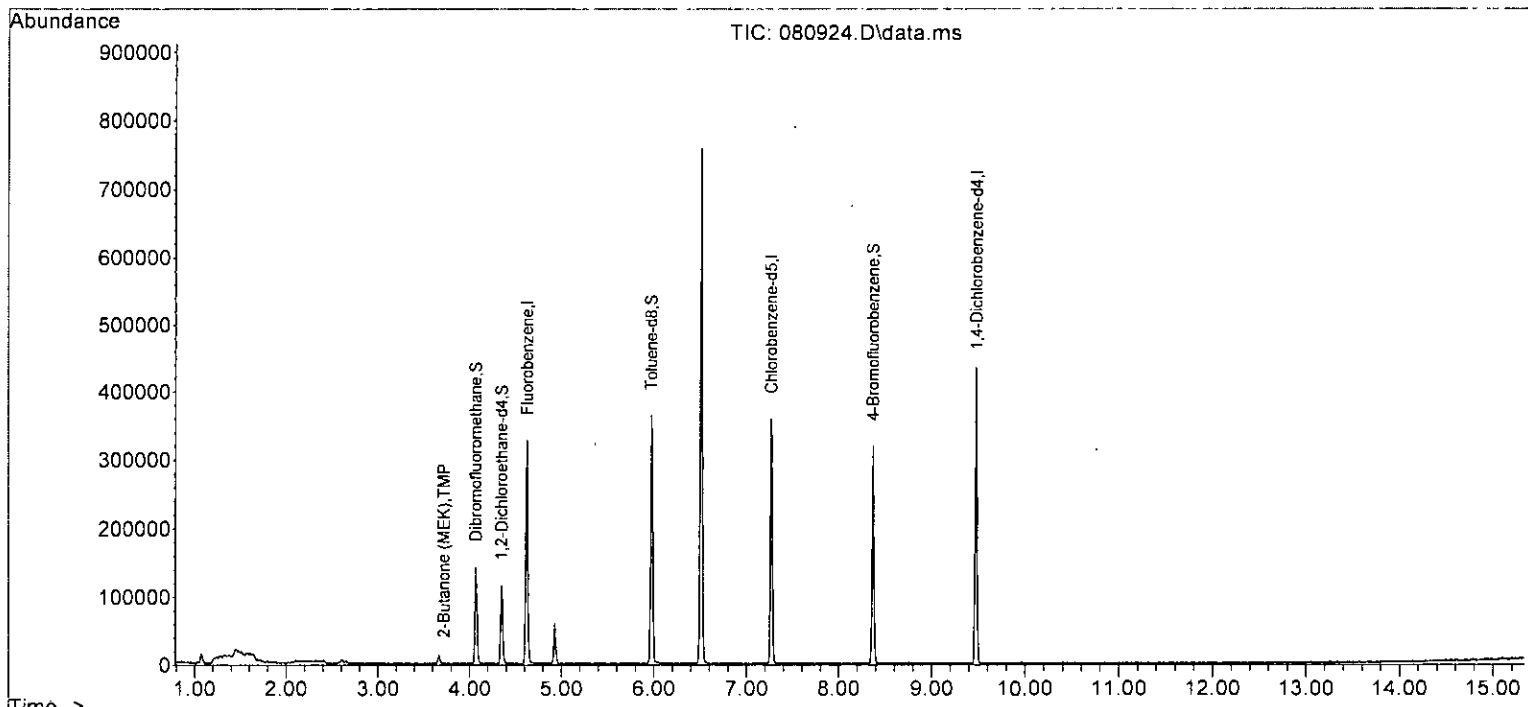
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	252203	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	194290	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	115157	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	70365	10.129	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%
30) 1,2-Dichloroethane-d4	4.35	102	16280	10.353	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	103.50%
35) Toluene-d8	5.97	98	231272	9.761	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.60%
57) 4-Bromofluorobenzene	8.37	95	82585	9.908	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.10%
Target Compounds						
						Qvalue
14) Methylene chloride	2.61	84	2067	Below Cal	#	84
17] trans-1,2-Dichloroethene	2.83	96	63	Below Cal		86
21) 2,2-Dichloropropane	3.64	77	303	Below Cal		48
22] cis-1,2-Dichloroethene	3.67	96	4420	0.575	ppb	94
24) 2-Butanone (MEK)	3.72	43	915	0.245	ppb	58
26] 1,2-Dichloroethane (EDC)	4.41	62	170	Below Cal		93
31] Benzene	4.39	78	119	Below Cal		95
32] Trichloroethene	4.93	95	16049	2.145	ppb	86
42] 1,1,2-Trichloroethane	6.50	83	2774	0.595	ppb	# 20
45] Tetrachloroethene	6.51	164	162145	24.252	ppb	98
49] Ethylbenzene	7.39	91	135	Below Cal		94
51] m,p-Xylene	7.50	106	112	Below Cal		98

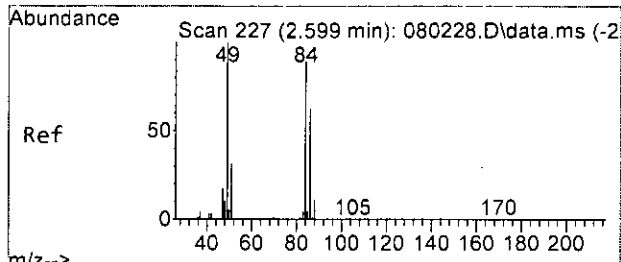
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080924.D  
 Acq On : 09 Aug 2023 03:14 pm  
 Operator : MD  
 Sample : 308148-01 1/100  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:05:06 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

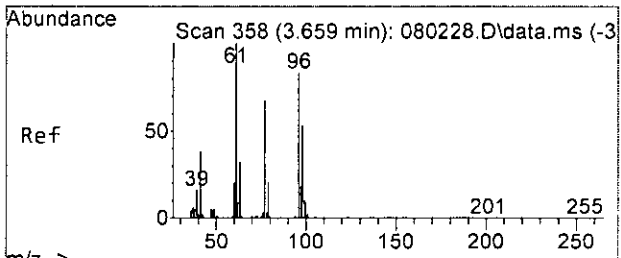
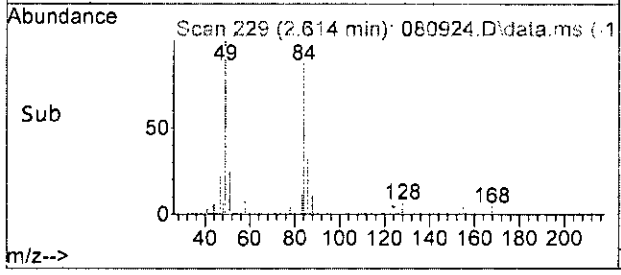
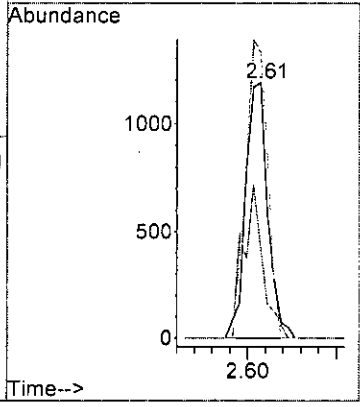
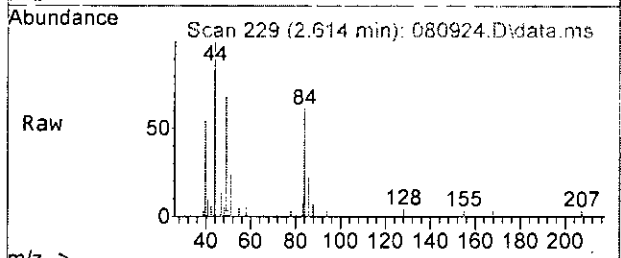




#14  
 Methylene chloride  
 Concen: Below Cal  
 RT: 2.61 min Scan# 229  
 Delta R.T. 0.016 min  
 Lab File: 080924.D  
 Acq: 09 Aug 2023 03:14 pm

Tgt Ion: 84 Resp: 2067

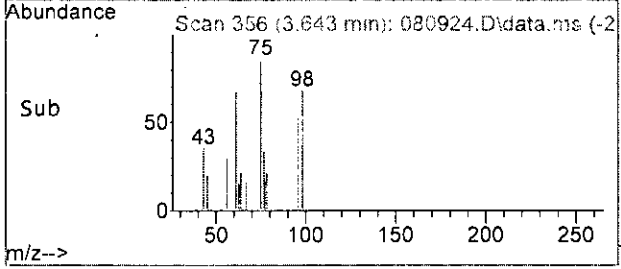
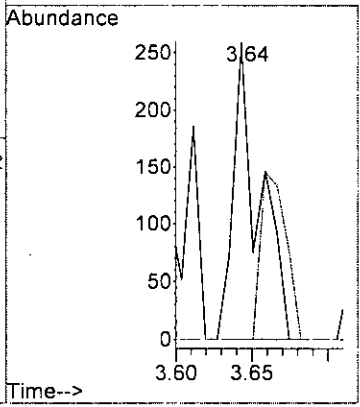
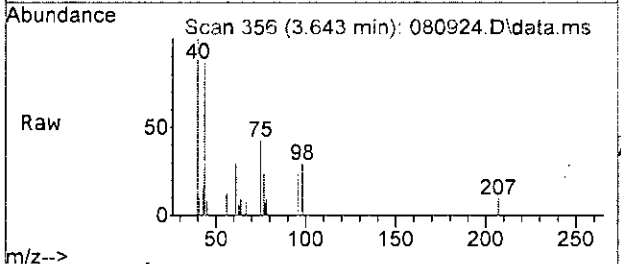
Ion	Ratio	Lower	Upper
84	100		
86	36.7	40.3	100.3#
49	112.0	82.6	142.6

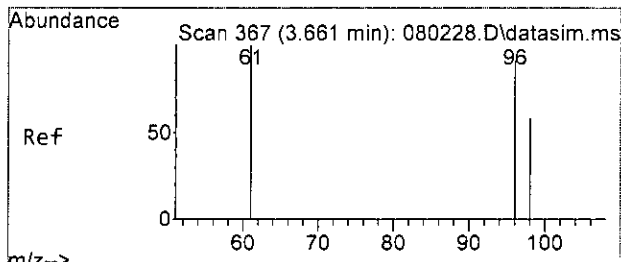


#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.64 min Scan# 356  
 Delta R.T. -0.016 min  
 Lab File: 080924.D  
 Acq: 09 Aug 2023 03:14 pm

Tgt Ion: 77 Resp: 303

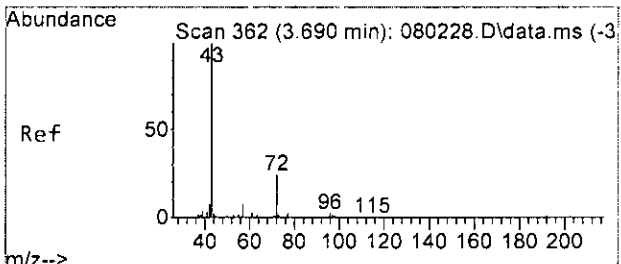
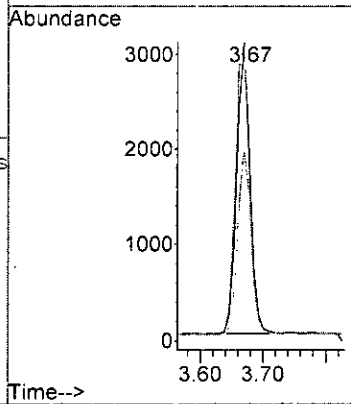
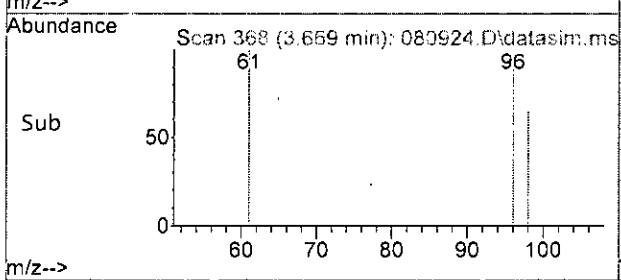
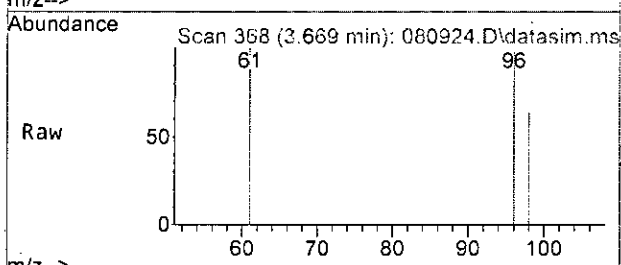
Ion	Ratio	Lower	Upper
77	100		
97	0.0	0.0	57.2





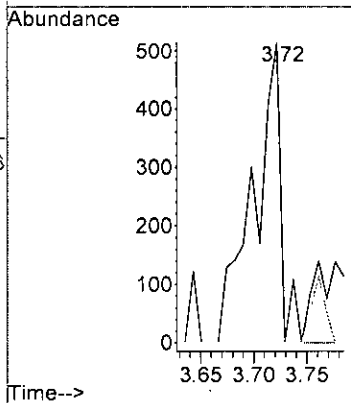
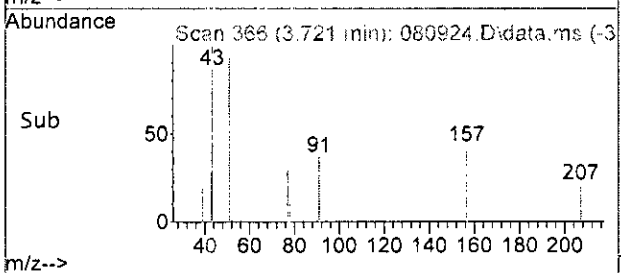
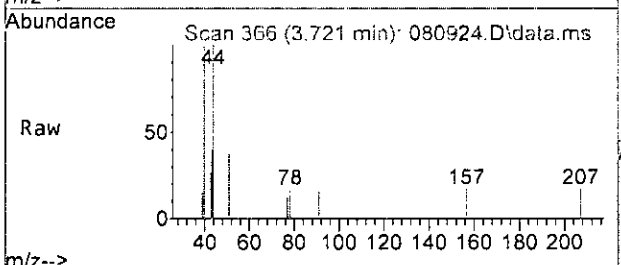
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.575 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.008 min  
 Lab File: 080924.D  
 Acq: 09 Aug 2023 03:14 pm

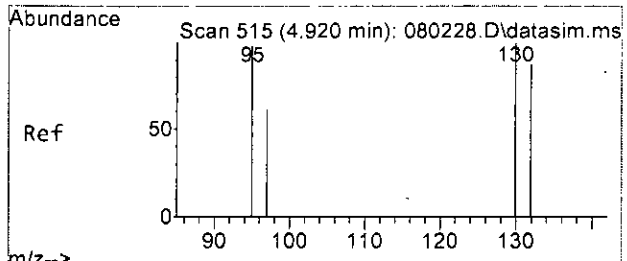
Tgt Ion	Resp	Lower	Upper
96	4420		
61	101.2	80.3	140.3
98	64.6	34.4	94.4



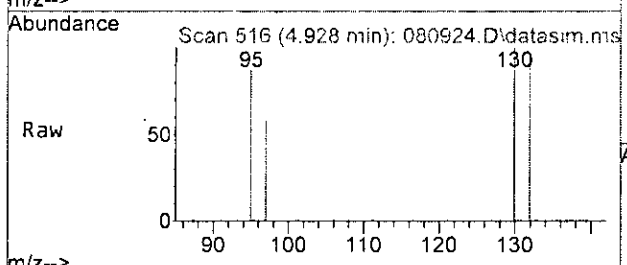
#24  
 2-Butanone (MEK)  
 Concen: 0.245 ppb  
 RT: 3.72 min Scan# 366  
 Delta R.T. 0.031 min  
 Lab File: 080924.D  
 Acq: 09 Aug 2023 03:14 pm

Tgt Ion	Resp	Lower	Upper
43	915		
72	0.0	0.0	54.2
57	0.0	0.0	27.4



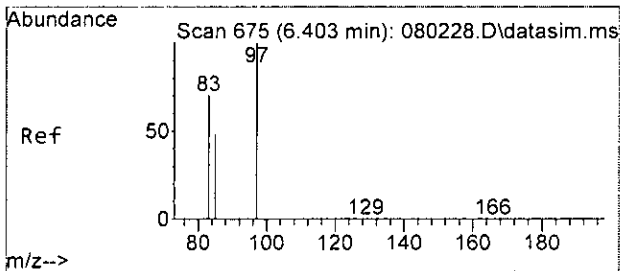
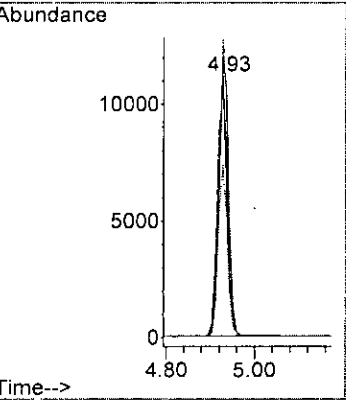
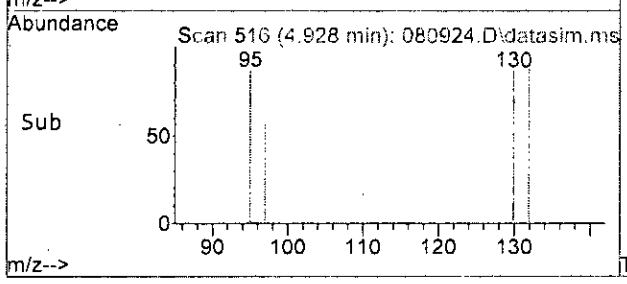


#32  
 Trichloroethene  
 Concen: 2.145 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. 0.008 min  
 Lab File: 080924.D  
 Acq: 09 Aug 2023 03:14 pm

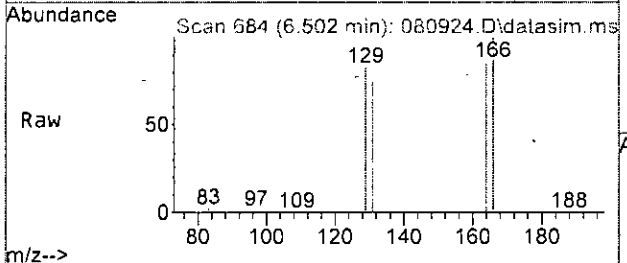


Tgt Ion: 95 Resp: 16049

Ion	Ratio	Lower	Upper
95	100		
97	66.3	31.8	91.8
130	114.9	72.0	132.0
132	107.9	58.7	118.7

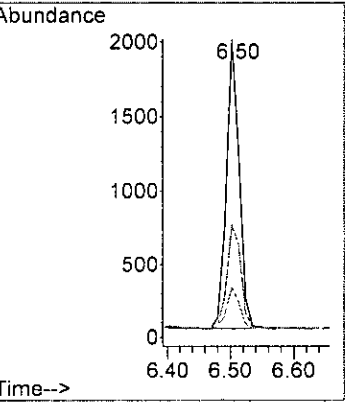
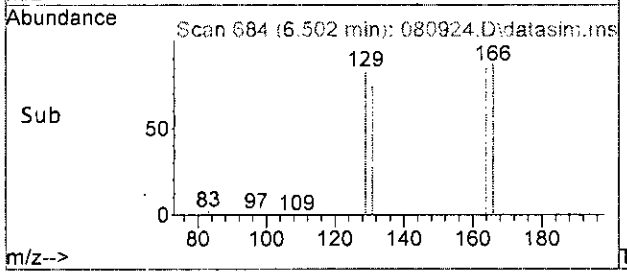


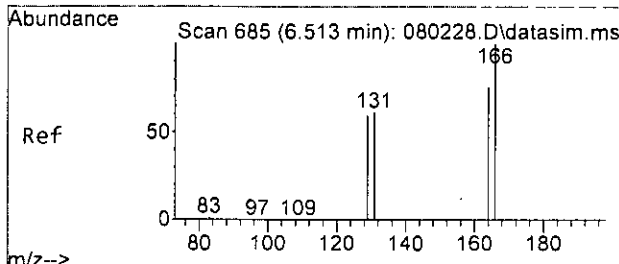
#42  
 1,1,2-Trichloroethane  
 Concen: 0.595 ppb  
 RT: 6.50 min Scan# 684  
 Delta R.T. 0.099 min  
 Lab File: 080924.D  
 Acq: 09 Aug 2023 03:14 pm



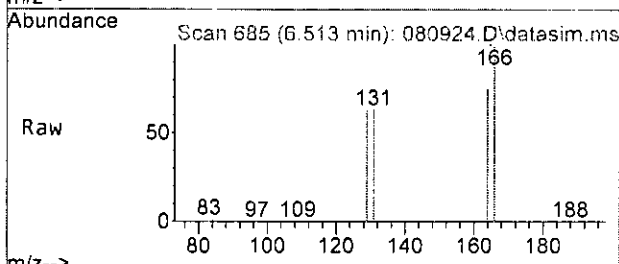
Tgt Ion: 83 Resp: 2774

Ion	Ratio	Lower	Upper
83	100		
97	36.2	113.6	173.6#
85	14.5	38.9	98.9#

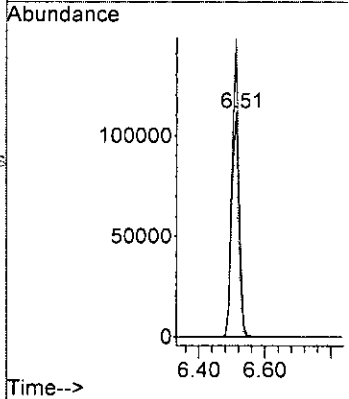
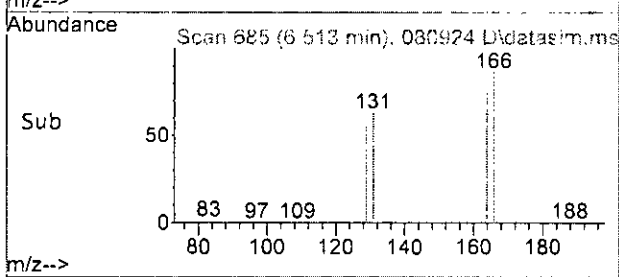




#45  
 Tetrachloroethene  
 Concen: 24.252 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 080924.D  
 Acq: 09 Aug 2023 03:14 pm



Tgt Ion:164 Resp: 162145  
 Ion Ratio Lower Upper  
 164 100  
 129 81.7 49.5 109.5  
 131 83.1 52.2 112.2  
 166 132.6 104.1 164.1



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080924.D  
 Acq On : 09 Aug 2023 03:14 pm  
 Operator : MD  
 Sample : 308148-01 1/100  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:05:06 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	252203	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	194290	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	115157	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	70365	10.129	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%
30) 1,2-Dichloroethane-d4	4.35	102	16280	10.353	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	103.50%
35) Toluene-d8	5.97	98	231272	9.761	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.60%
57) 4-Bromofluorobenzene	8.37	95	82585	9.908	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.10%
Target Compounds						
2) Ethanol	1.96	45	268	No Calib	#	
4) Dichlorodifluoromethane	1.09	85	111	N.D.		
5) Chloromethane	1.23	50	501	N.D.		
6) Vinyl chloride	1.30	62	122	N.D.		
7) Bromomethane	1.52	94	878	N.D.		
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	2.39	45	964	No Calib		
11) Acetone	2.26	58	686	N.D.		
12) 1,1-Dichloroethene	2.20	96	79	N.D.		
13) Hexane	3.05	57	55	N.D.		
14) Methylene chloride	2.61	84	2067	Below Cal	#	84
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17] trans-1,2-Dichloroethene	2.83	96	63	Below Cal		86
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.64	77	303	Below Cal		48
22] cis-1,2-Dichloroethene	3.67	96	4420	0.575	ppb	94,
23) Chloroform	3.94	83	200	N.D.		
24) 2-Butanone (MEK)	3.72	43	915	0.245	ppb	58
25) t-Amyl methyl ether (T...)	4.51	73	96	N.D.		
26] 1,2-Dichloroethane (EDC)	4.41	62	170	Below Cal		93
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.39	78	119	Below Cal		95
32] Trichloroethene	4.93	95	16049	2.145	ppb	86
33) 1,2-Dichloropropane	5.12	63	71	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080924.D  
 Acq On : 09 Aug 2023 03:14 pm  
 Operator : MD  
 Sample : 308148-01 1/100  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

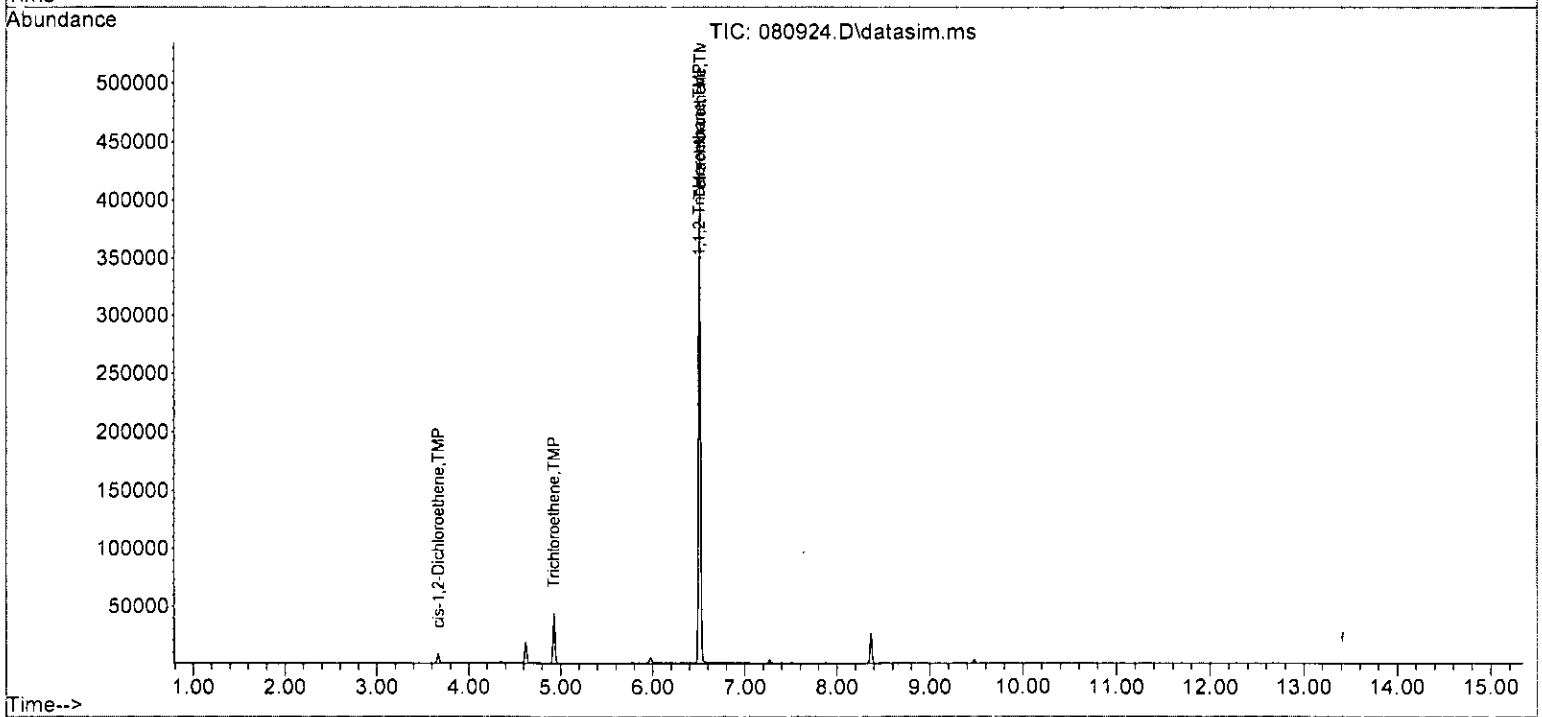
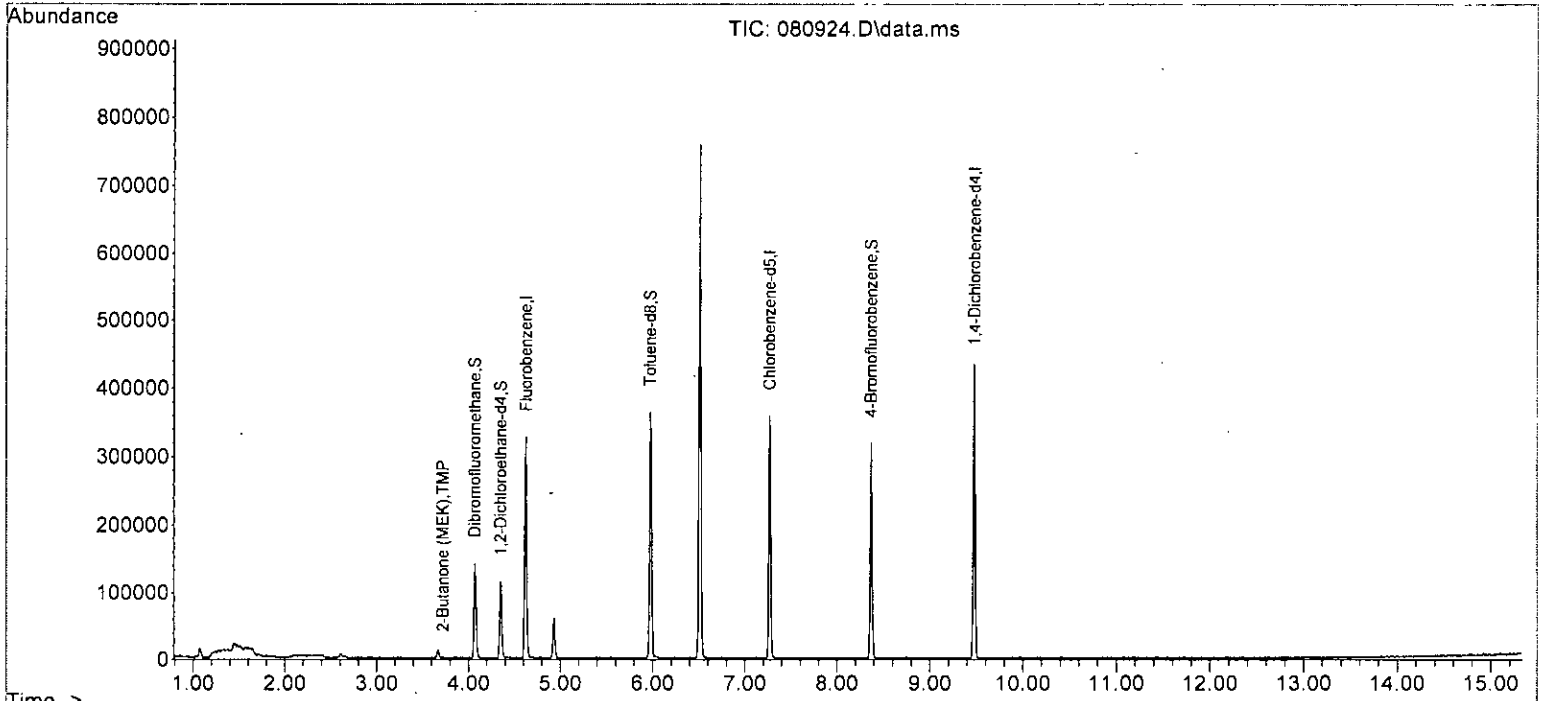
Quant Time: Aug 10 09:05:06 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	5.71	75	72		N.D.	
40) Toluene	6.03	92	265		N.D.	
41) trans-1,3-Dichloropropene	6.24	75	50		N.D.	
42] 1,1,2-Trichloroethane	6.50	83	2774	0.595	ppb #	20
43) 2-Hexanone	6.64	43	251		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	162145	24.252	ppb	98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	7.30	112	191		N.D.	
49] Ethylbenzene	7.39	91	135	Below Cal		94
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.50	106	112	Below Cal		98
52) o-Xylene	0.00		0		N.D.	
53) Styrene	7.89	104	62		N.D.	
54) Isopropylbenzene	8.23	105	122		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.71	91	178		N.D.	
59) Bromobenzene	8.37	156	59		N.D.	
60) 1,3,5-Trimethylbenzene	8.79	105	101		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.71	91	178		N.D.	
64) 4-Chlorotoluene	8.83	91	86		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	183		N.D.	
67) sec-Butylbenzene	9.31	105	84		N.D.	
68) p-Isopropyltoluene	9.46	119	258		N.D.	
69) 1,3-Dichlorobenzene	9.42	146	108		N.D.	
70) 1,4-Dichlorobenzene	9.49	146	203		N.D.	
71) 1,2-Dichlorobenzene	9.86	146	142		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.43	180	302		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	102		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080924.D  
 Acq On : 09 Aug 2023 03:14 pm  
 Operator : MD  
 Sample : 308148-01 1/100  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:05:06 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

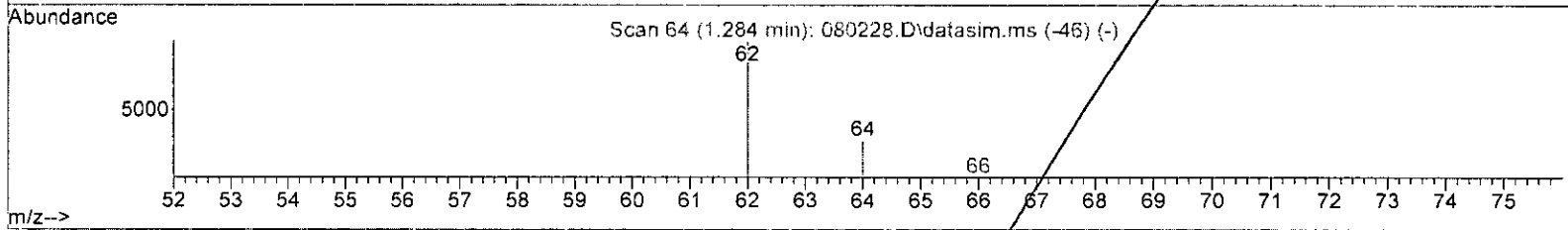
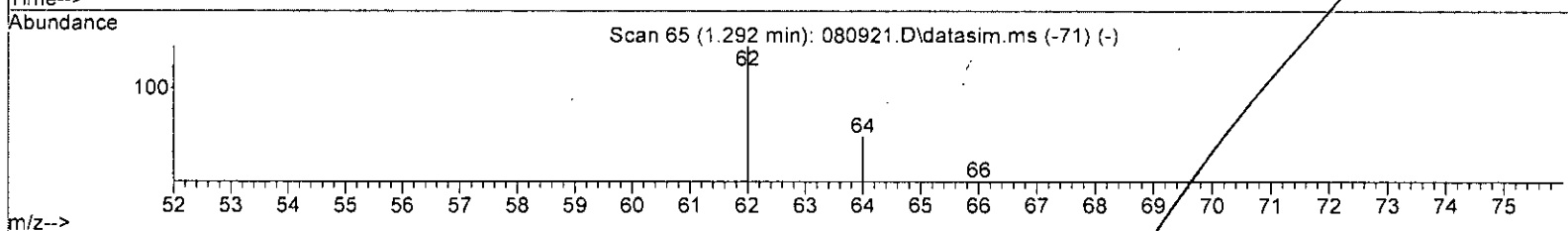
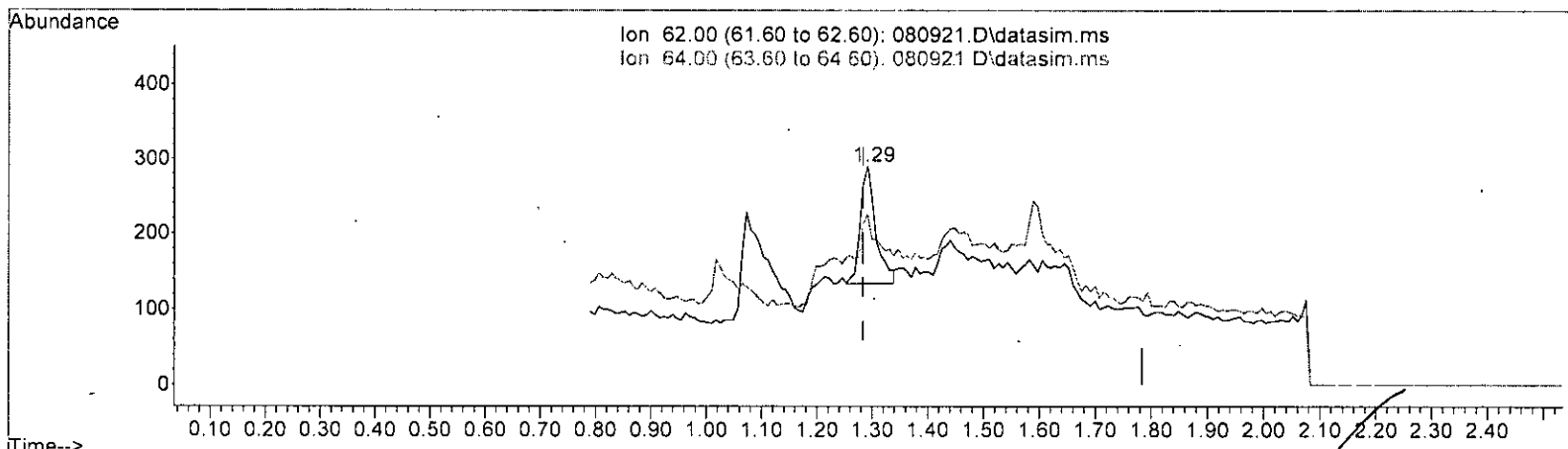




Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



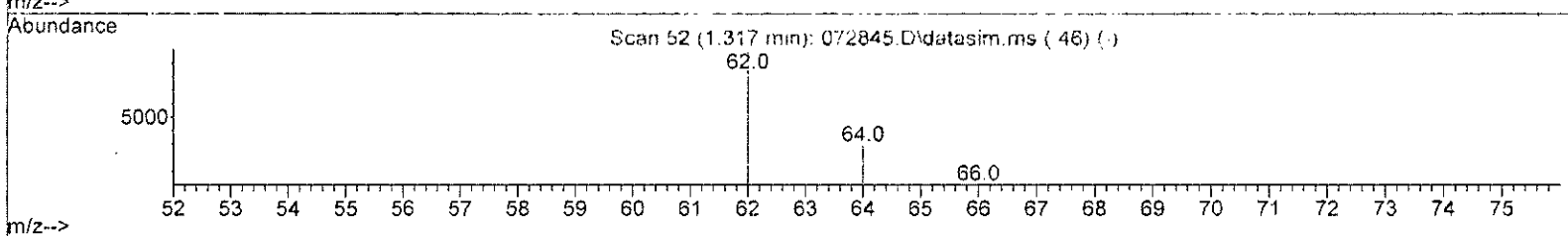
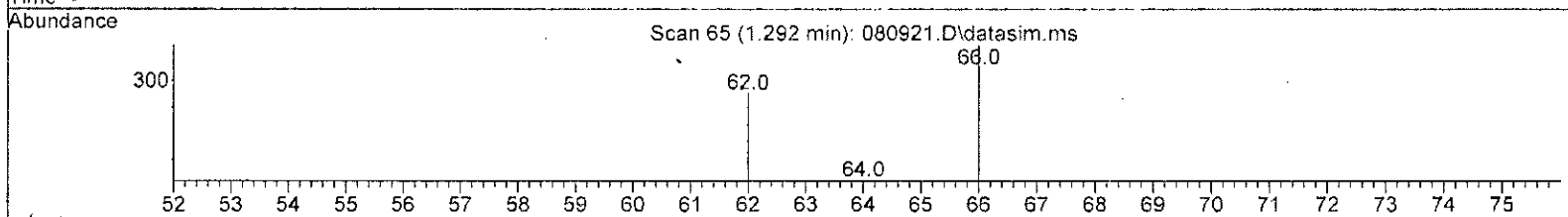
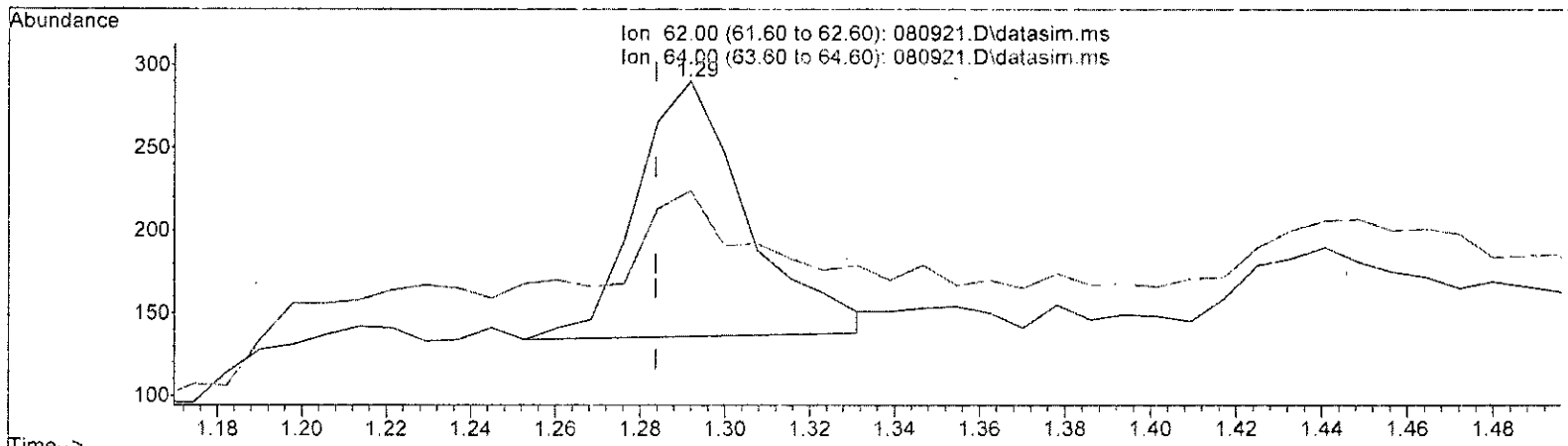
TIC: 080921.D\data.ms *m 8/80*

(6) Vinyl chloride (TMP)		
1.292min (+ 0.008)	0.021	ppb
response	300	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	35.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : S:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080921.D\data.ms

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	27.70	77.24#
0.00	0.00	0.00
0.00	0.00	0.00

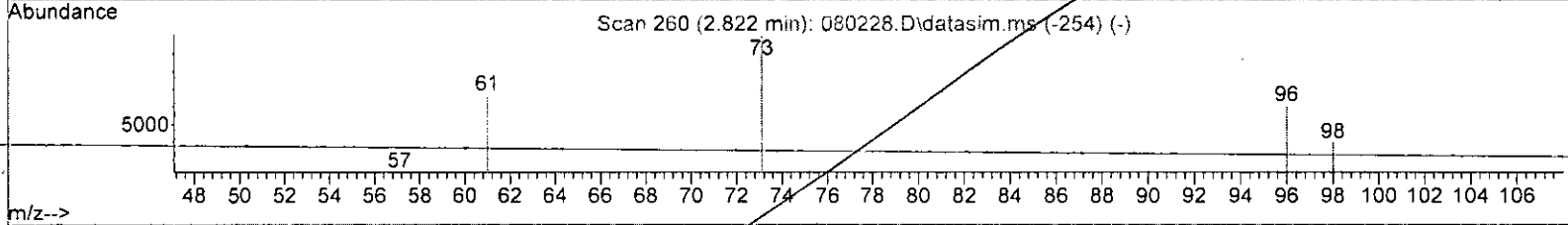
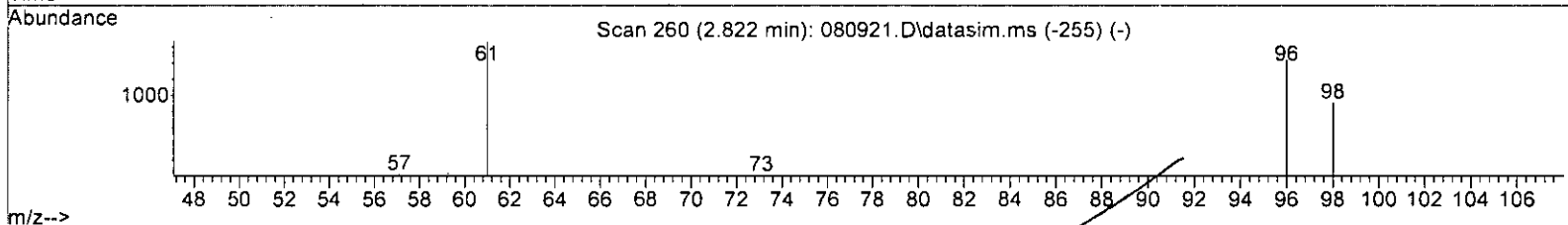
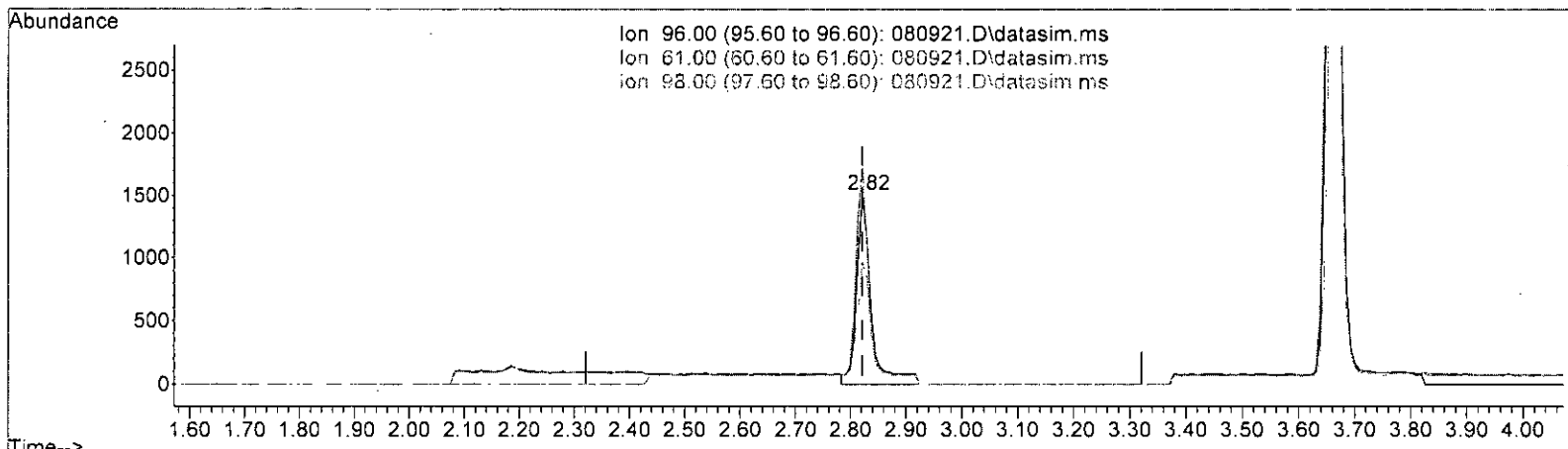
(6) Vinyl chloride (TMP)  
 1.292min (+ 0.008) 0.019 ppb m  
 response 280

*YA*  
*08/11/23*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080921.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m 8/10*

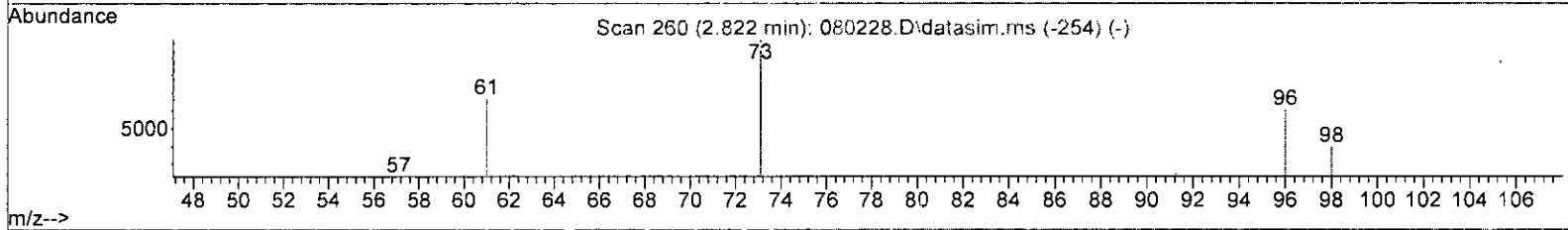
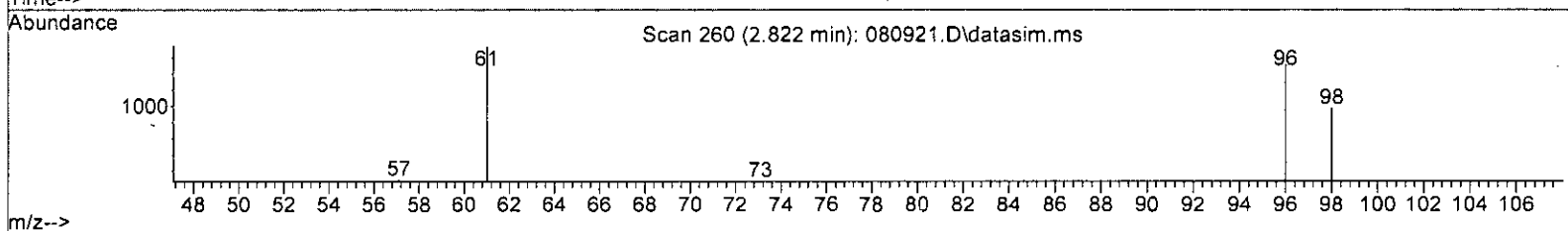
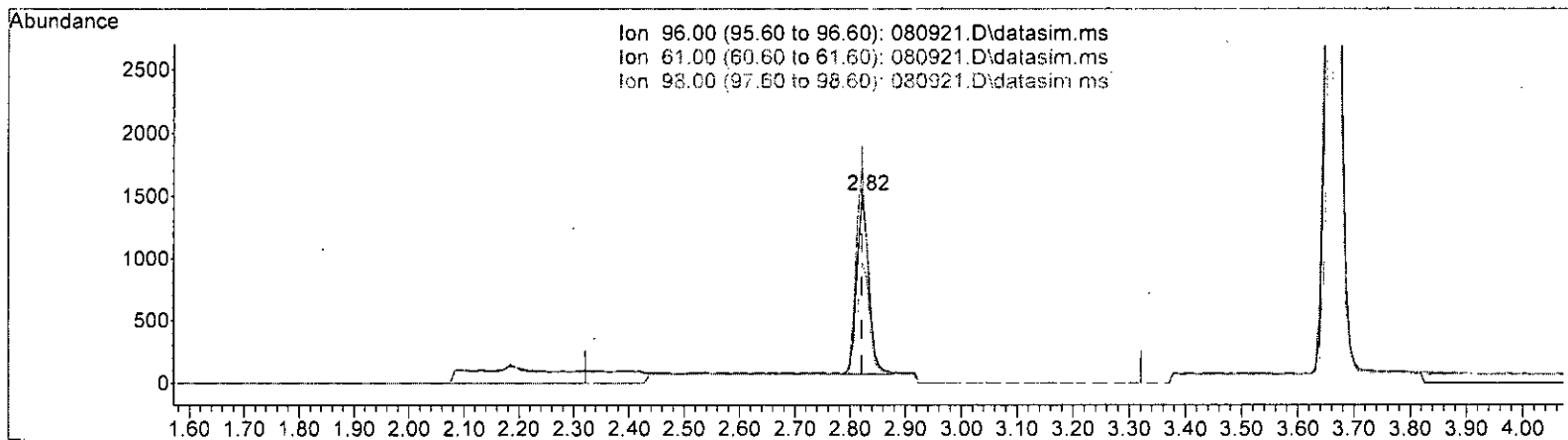
2.822min (+ 0.000) 0.404 ppb

response	2702
Ion	Exp% Act%
96.00	100.00 100.00
61.00	109.90 115.18
98.00	65.30 64.15
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080921.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m 8/10*

2.822min (+ 0.000) 0.315 ppb m

response	2126	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	115.18
98.00	65.30	64.15
0.00	0.00	0.00

Data Path : S:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

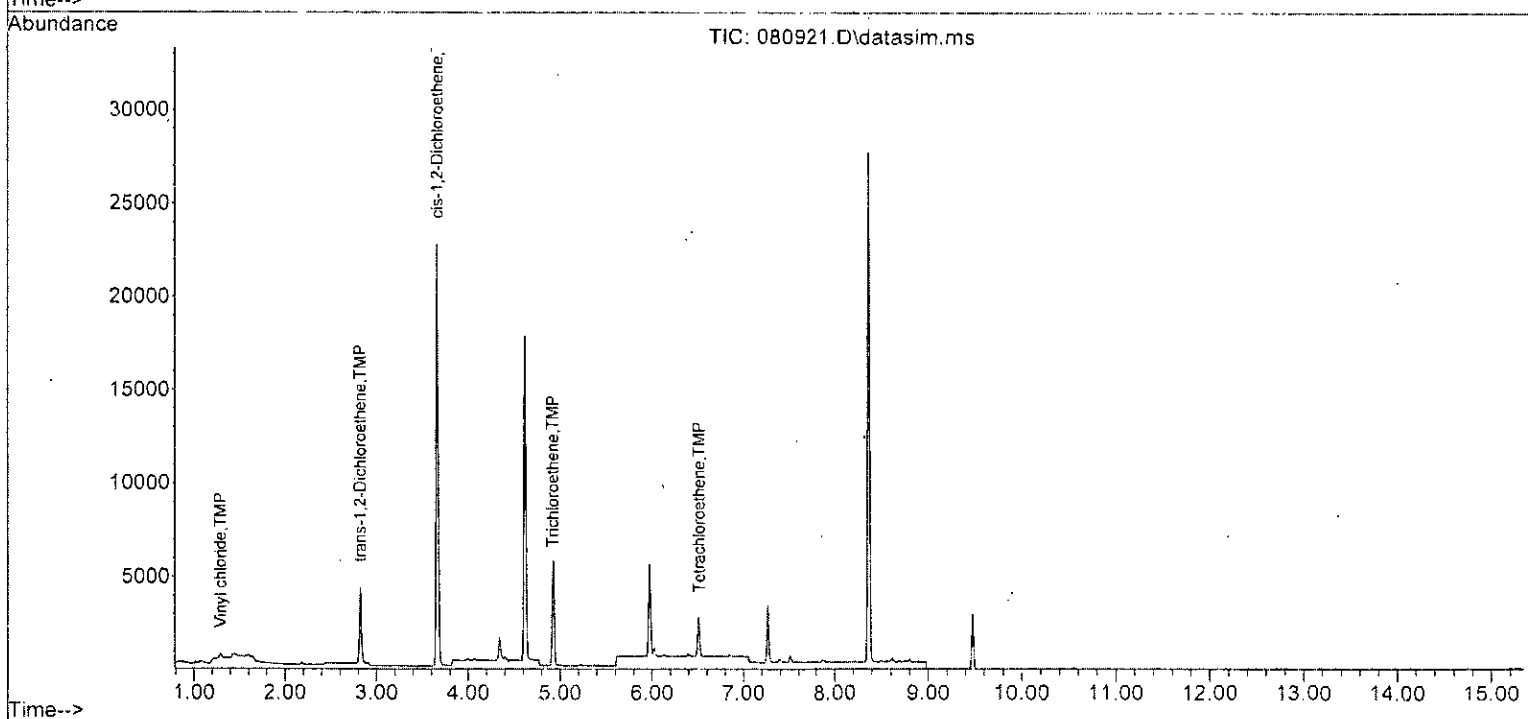
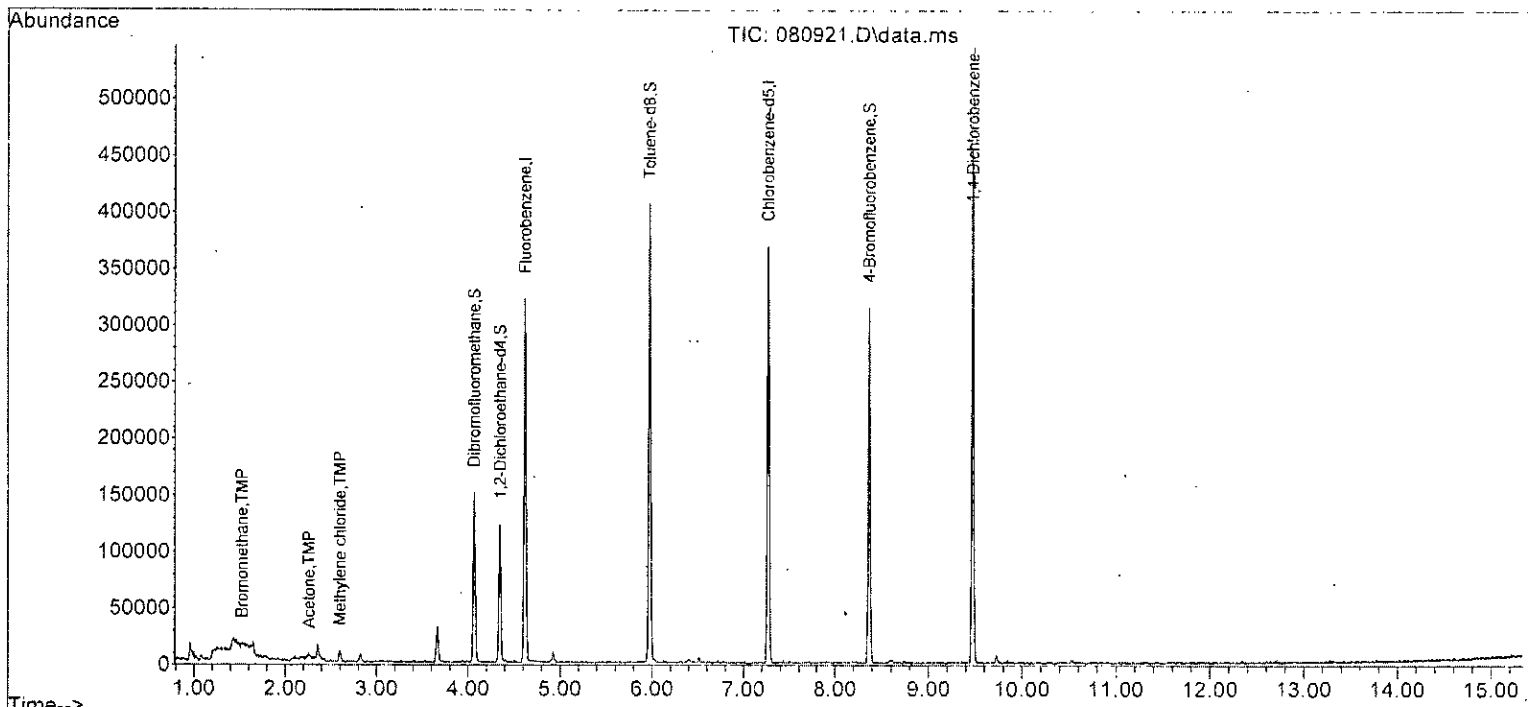
Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

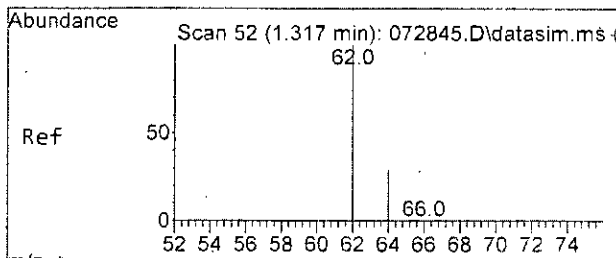
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	245731	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	198358	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	116353	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	70304	10.386	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	103.90%		
30) 1,2-Dichloroethane-d4	4.35	102	15832	10.333	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	103.30%		
35) Toluene-d8	5.97	98	231711	10.037	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	100.40%		
57) 4-Bromofluorobenzene	8.37	95	87097	10.342	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	103.40%		
Target Compounds						
						Qvalue
6] Vinyl chloride	1.29	62	280m	0.019	ppb	
7) Bromomethane	1.52	94	1907	0.174	ppb	# 6
11) Acetone	2.26	58	1624	1.238	ppb	93
14) Methylene chloride	2.60	84	3914	0.118	ppb	90
17] trans-1,2-Dichloroethene	2.82	96	2126m	0.315	ppb	
21) 2,2-Dichloropropane	3.64	77	158	Below Cal		48
22] cis-1,2-Dichloroethene	3.66	96	12234	1.632	ppb	96
31] Benzene	4.39	78	170	Below Cal		95
32] Trichloroethene	4.92	95	2124	0.285	ppb	97
40] Toluene	6.03	92	216	Below Cal		100
45] Tetrachloroethene	6.51	164	840	0.106	ppb	97
49] Ethylbenzene	7.39	91	161	Below Cal		99
51] m,p-Xylene	7.50	106	146	Below Cal		97
52] o-Xylene	7.88	106	63	Below Cal		94

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

Data Path : S:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

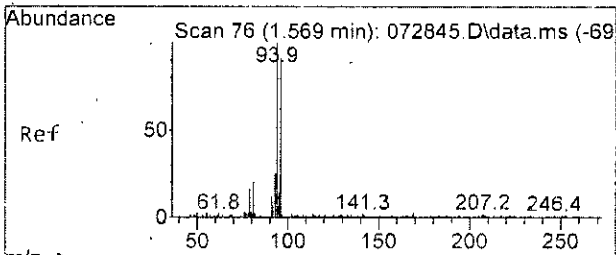
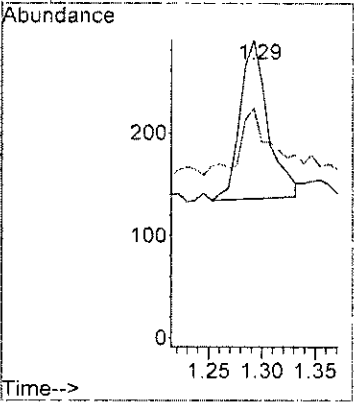
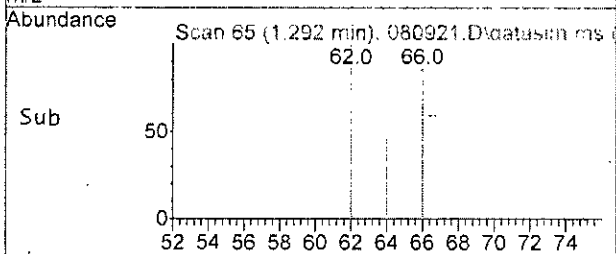
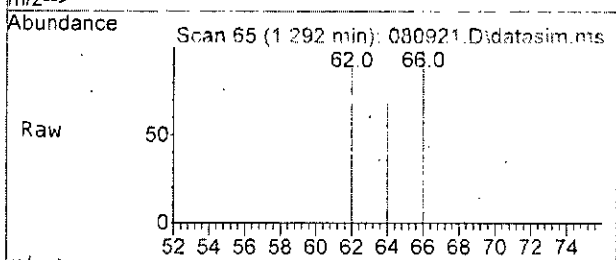
Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M





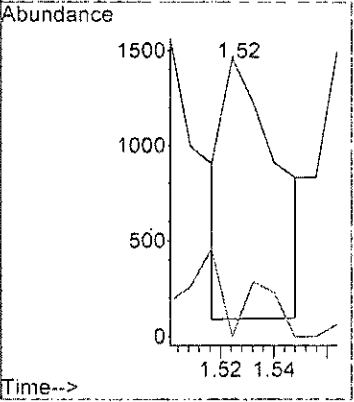
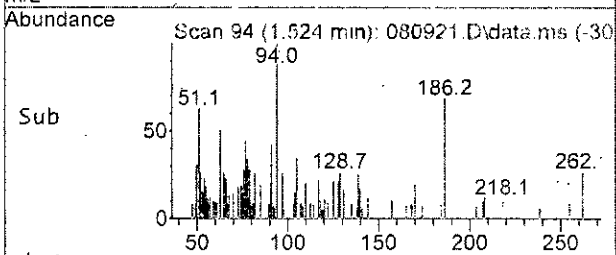
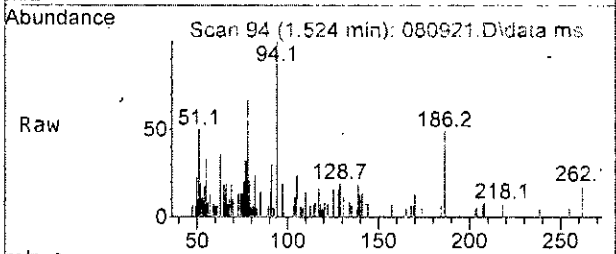
#6  
 Vinyl chloride  
 Concen: 0.019 ppb m  
 RT: 1.29 min Scan# 65  
 Delta R.T. 0.008 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm

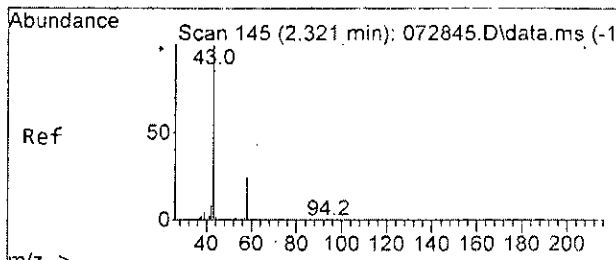
Tgt Ion: 62 Resp: 280  
 Ion Ratio Lower Upper  
 62 100  
 64 77.2 0.0 57.7#



#7  
 Bromomethane  
 Concen: 0.174 ppb  
 RT: 1.52 min Scan# 94  
 Delta R.T. 0.000 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm

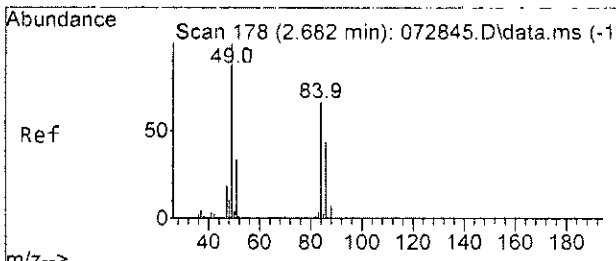
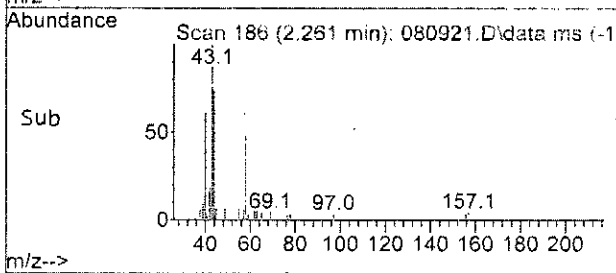
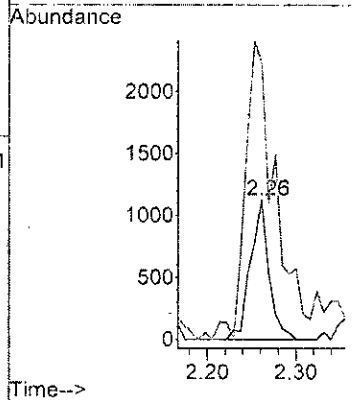
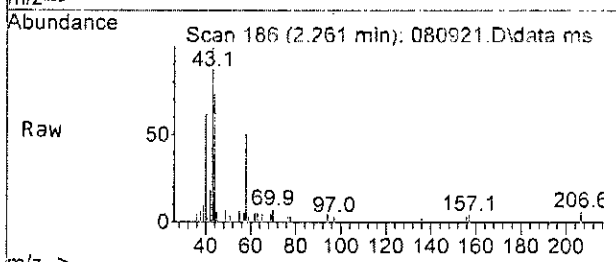
Tgt Ion: 94 Resp: 1907  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 57.8 117.8#





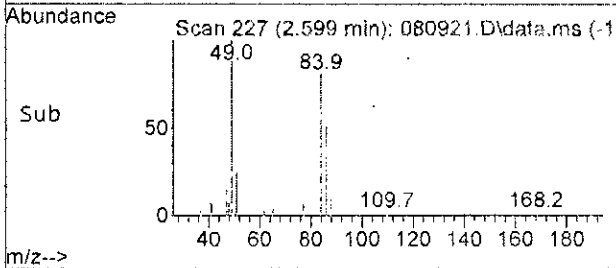
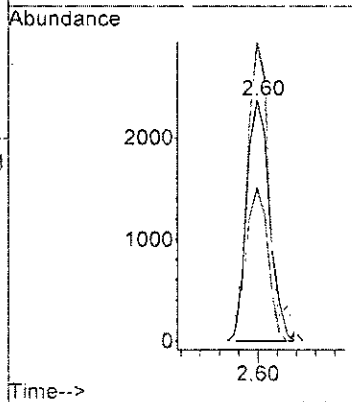
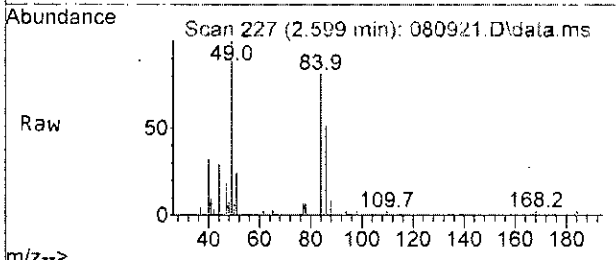
#11  
 Acetone  
 Concen: 1.238 ppb  
 RT: 2.26 min Scan# 186  
 Delta R.T. 0.016 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm

Tgt Ion: 58 Resp: 1624  
 Ion Ratio Lower Upper  
 58 100  
 43 347.5 303.0 363.0

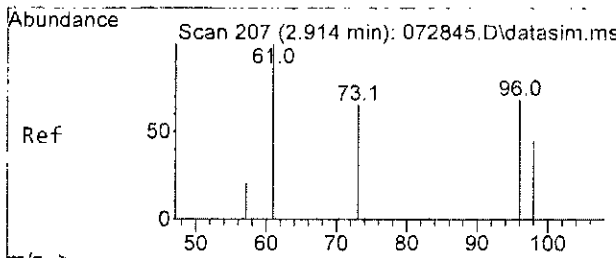


#14  
 Methylene chloride  
 Concen: 0.118 ppb  
 RT: 2.60 min Scan# 227  
 Delta R.T. 0.000 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm

Tgt Ion: 84 Resp: 3914  
 Ion Ratio Lower Upper  
 84 100  
 86 63.4 40.3 100.3  
 49 124.1 82.6 142.6

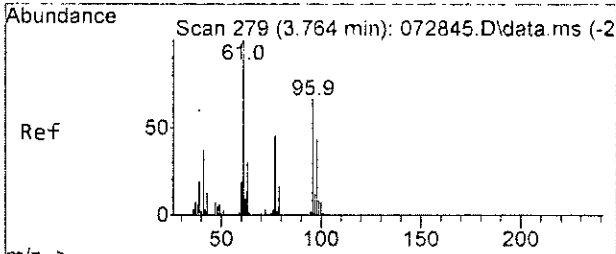
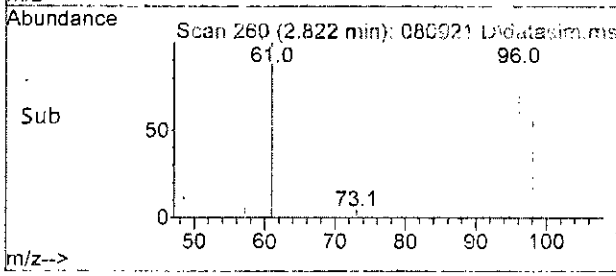
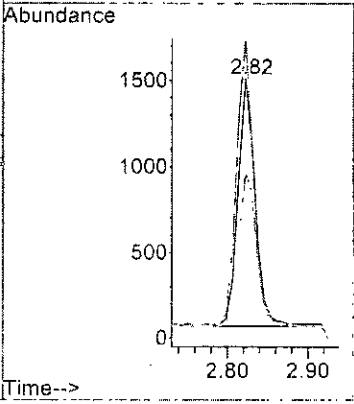
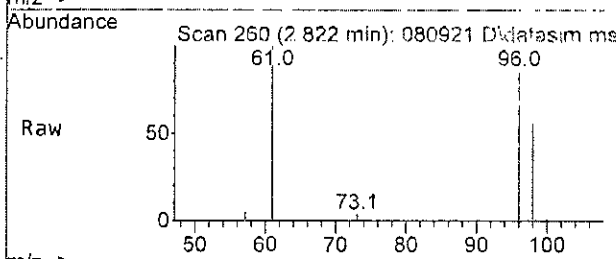






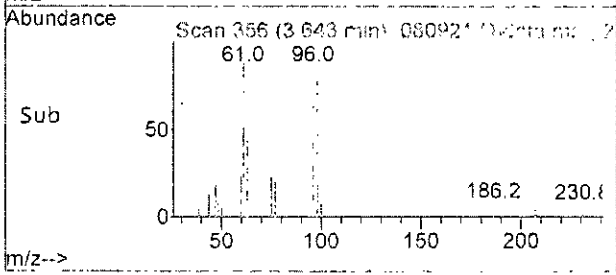
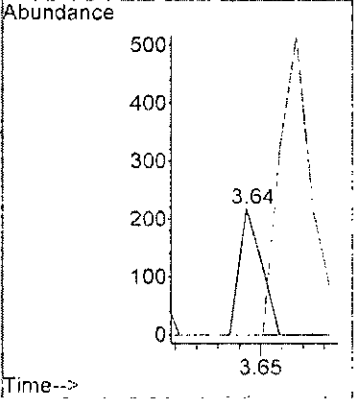
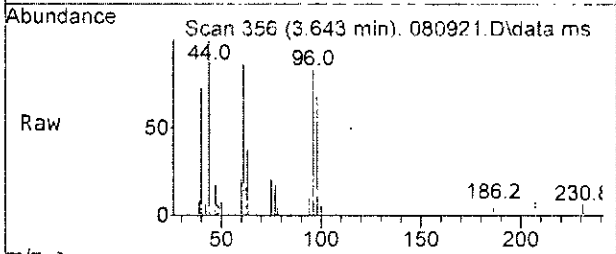
#17  
 trans-1,2-Dichloroethene  
 Concen: 0.315 ppb m  
 RT: 2.82 min Scan# 260  
 Delta R.T. 0.000 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm

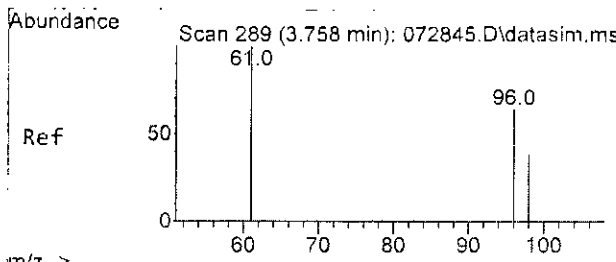
Tgt Ion: 96 Resp: 2126  
 Ion Ratio Lower Upper  
 96 100  
 61 115.2 79.9 139.9  
 98 64.1 35.3 95.3



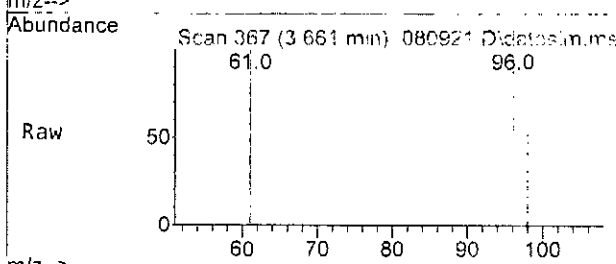
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.64 min Scan# 356  
 Delta R.T. -0.015 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm

Tgt Ion: 77 Resp: 158  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 0.0 57.2



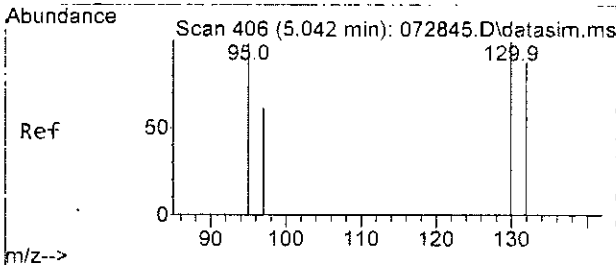
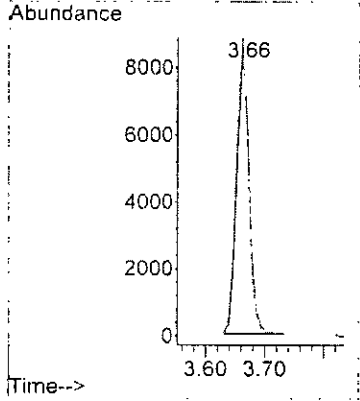
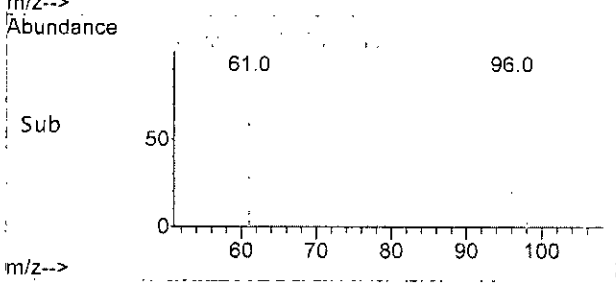


#22  
 cis-1,2-Dichloroethene  
 Concen: 1.632 ppb  
 RT: 3.66 min Scan# 367  
 Delta R.T. 0.000 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm

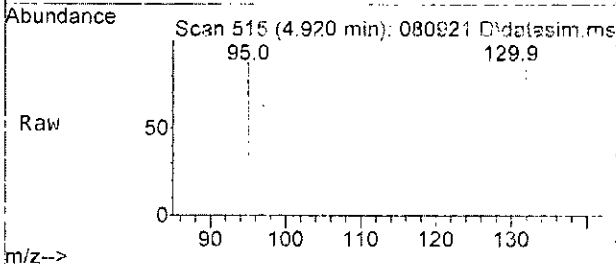


Tgt Ion: 96 Resp: 12234

Ion	Ratio	Lower	Upper
96	100		
61	104.5	80.3	140.3
98	63.2	34.4	94.4

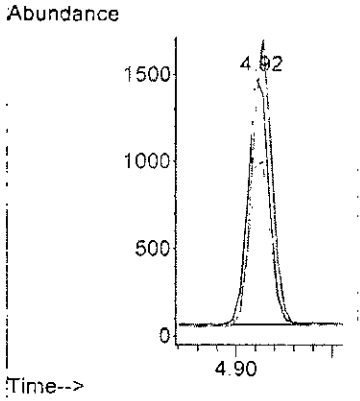
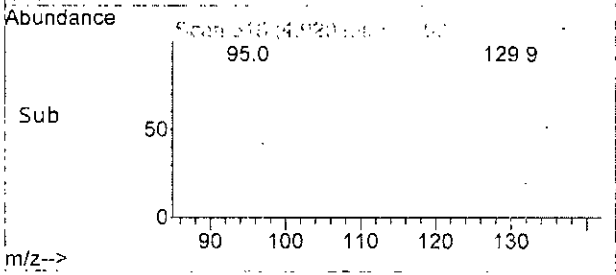


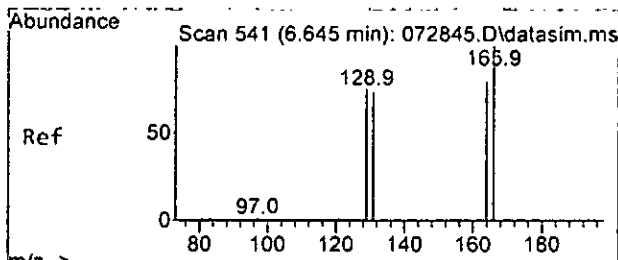
#32  
 Trichloroethene  
 Concen: 0.285 ppb  
 RT: 4.92 min Scan# 515  
 Delta R.T. 0.000 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm



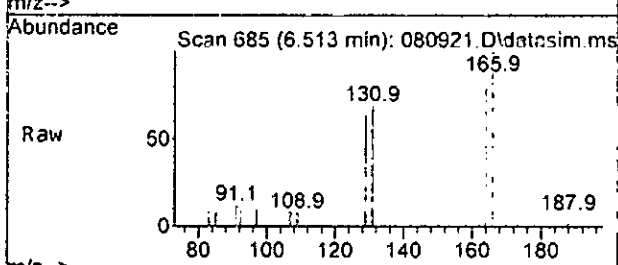
Tgt Ion: 95 Resp: 2124

Ion	Ratio	Lower	Upper
95	100		
97	63.3	31.8	91.8
130	97.9	72.0	132.0
132	86.5	58.7	118.7



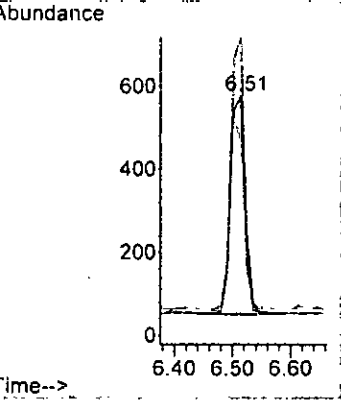
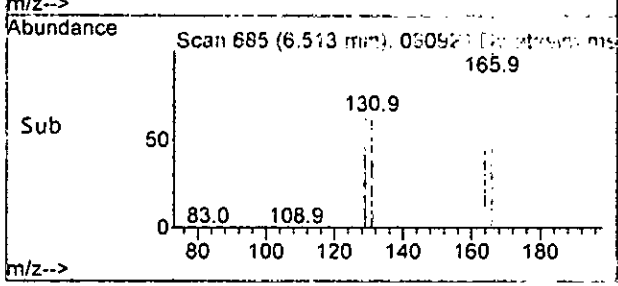


#45  
 Tetrachloroethene  
 Concen: 0.106 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 080921.D  
 Acq: 09 Aug 2023 02:06 pm



Tgt Ion: 164 Resp: 840

Ion	Ratio	Lower	Upper
164	100		
129	78.5	49.5	109.5
131	82.1	52.2	112.2
166	126.5	104.1	164.1



Data Path : S:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.62	96	245731	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	198358	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.47	152	116353	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	70304	10.386	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.90%		
30) 1,2-Dichloroethane-d4	4.35	102	15832	10.333	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	103.30%		
35) Toluene-d8	5.97	98	231711	10.037	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	100.40%		
57) 4-Bromofluorobenzene	8.37	95	87097	10.342	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	103.40%		
Target Compounds							
							Qvalue
2) Ethanol	1.92	45	340	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.22	50	1524	N.D.			
6] Vinyl chloride	1.29	62	280m	0.019	ppb		
7) Bromomethane	1.52	94	1907	0.174	ppb	#	6
8) Chloroethane	1.59	64	511	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.39	45	1417	No Calib			
11) Acetone	2.26	58	1624	1.238	ppb		93
12) 1,1-Dichloroethene	2.19	96	109	N.D.			
13) Hexane	3.06	57	161	N.D.			
14) Methylene chloride	2.60	84	3914	0.118	ppb		90
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.82	96	2126m	0.315	ppb		
18) Diisopropyl ether (DIPE)	3.31	45	77	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.64	77	158	Below Cal			48
22] cis-1,2-Dichloroethene	3.66	96	12234	1.632	ppb		96
23) Chloroform	3.93	83	119	N.D.			
24) 2-Butanone (MEK)	3.70	43	297	N.D.			
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.41	62	227	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.39	78	170	Below Cal			95
32] Trichloroethene	4.92	95	2124	0.285	ppb		97
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	5.26	93	55	N.D.			

Data Path : S:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

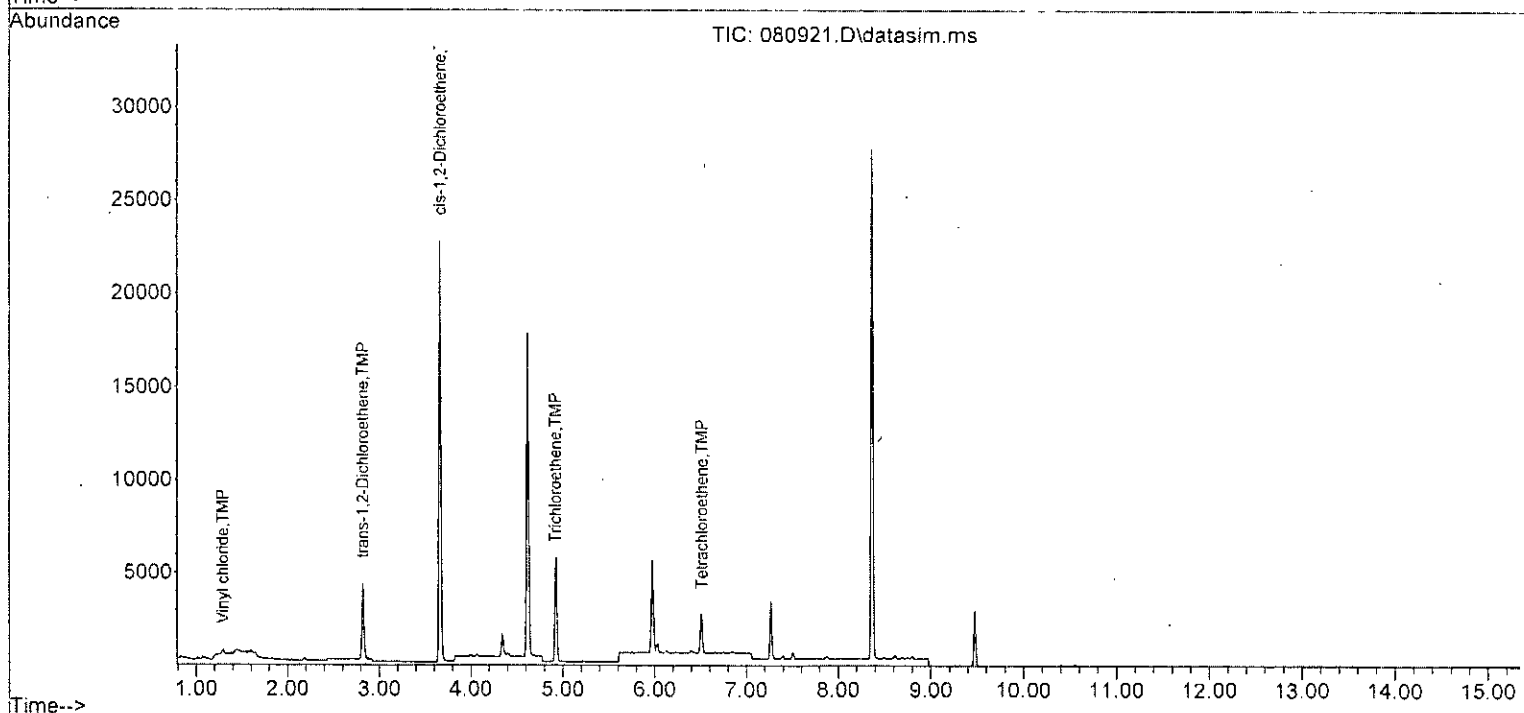
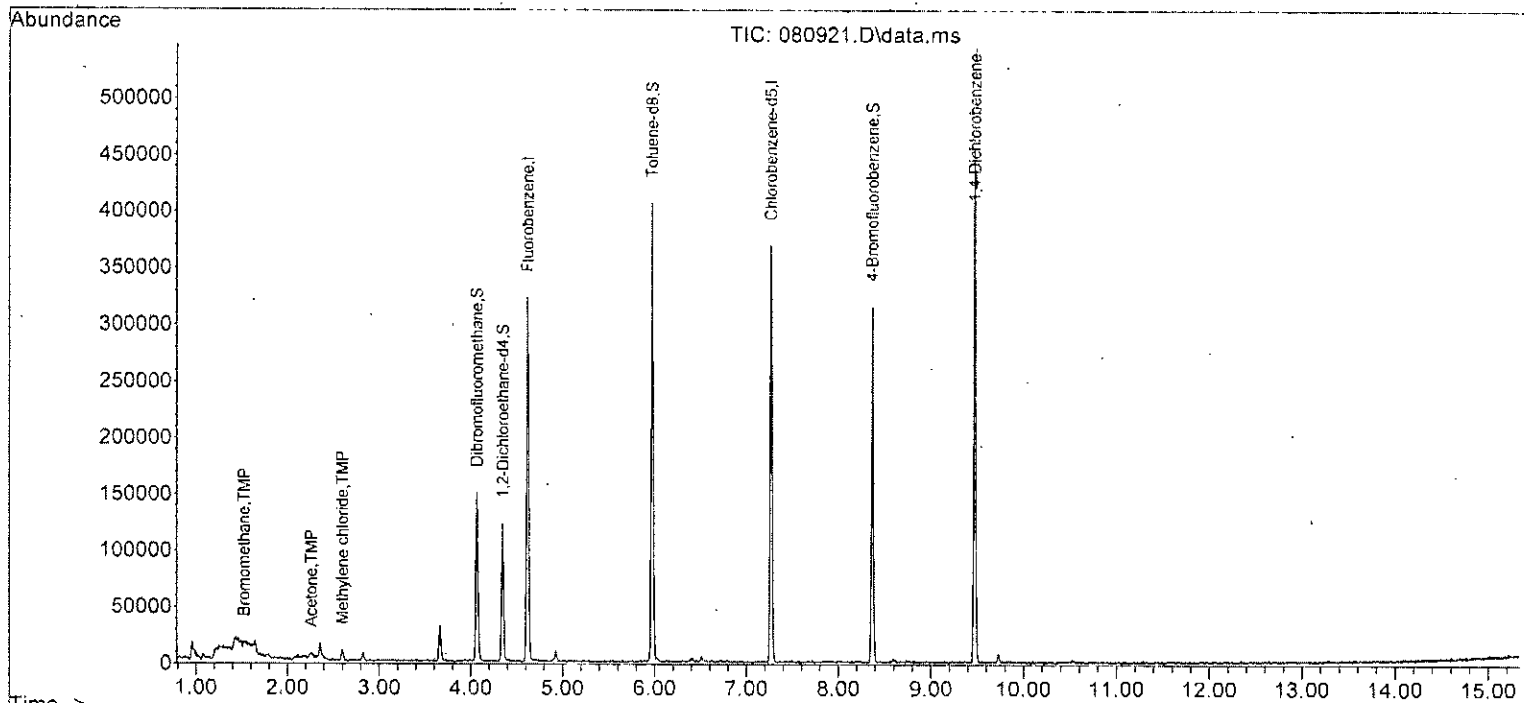
Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.99	85	87	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.03	92	216	Below Cal	100
41) trans-1,3-Dichloropropene	6.23	75	123	N.D.	
42) 1,1,2-Trichloroethane	6.39	83	156	N.D.	
43) 2-Hexanone	6.62	43	84	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.51	164	840	0.106 ppb	97
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.39	91	161	Below Cal	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.50	106	146	Below Cal	97
52] o-Xylene	7.88	106	63	Below Cal	94
53) Styrene	7.90	104	91	N.D.	
54) Isopropylbenzene	8.23	105	248	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	8.46	91	55	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	8.78	105	188	N.D.	
61) 1,1,2,2-Tetrachloroethane	8.37	83	83	N.D.	
62) 1,2,3-Trichloropropane	8.59	75	57	N.D.	
63) 2-Chlorotoluene	8.80	91	387	N.D.	
64) 4-Chlorotoluene	8.80	91	387	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.14	105	212	N.D.	
67) sec-Butylbenzene	9.32	105	364	N.D.	
68) p-Isopropyltoluene	9.51	119	59	N.D.	
69) 1,3-Dichlorobenzene	9.41	146	106	N.D.	
70) 1,4-Dichlorobenzene	9.49	146	205	N.D.	
71) 1,2-Dichlorobenzene	9.86	146	139	N.D.	
72) 1,2-Dibromo-3-chloropr...	10.47	75	53	N.D.	
73) 1,2,4-Trichlorobenzene	11.43	180	164	N.D.	
74) Hexachlorobutadiene	11.60	225	81	N.D.	
75) Naphthalene	11.67	128	435	N.D.	
76) 1,2,3-Trichlorobenzene	11.91	180	184	N.D.	

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

Data Path : S:\Proc\_GCMS11\08-09-23\  
 Data File : 080921.D  
 Acq On : 09 Aug 2023 02:06 pm  
 Operator : MD  
 Sample : 308148-02  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:54 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080920.D  
 Acq On : 09 Aug 2023 01:43 pm  
 Operator : MD  
 Sample : 308148-03  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

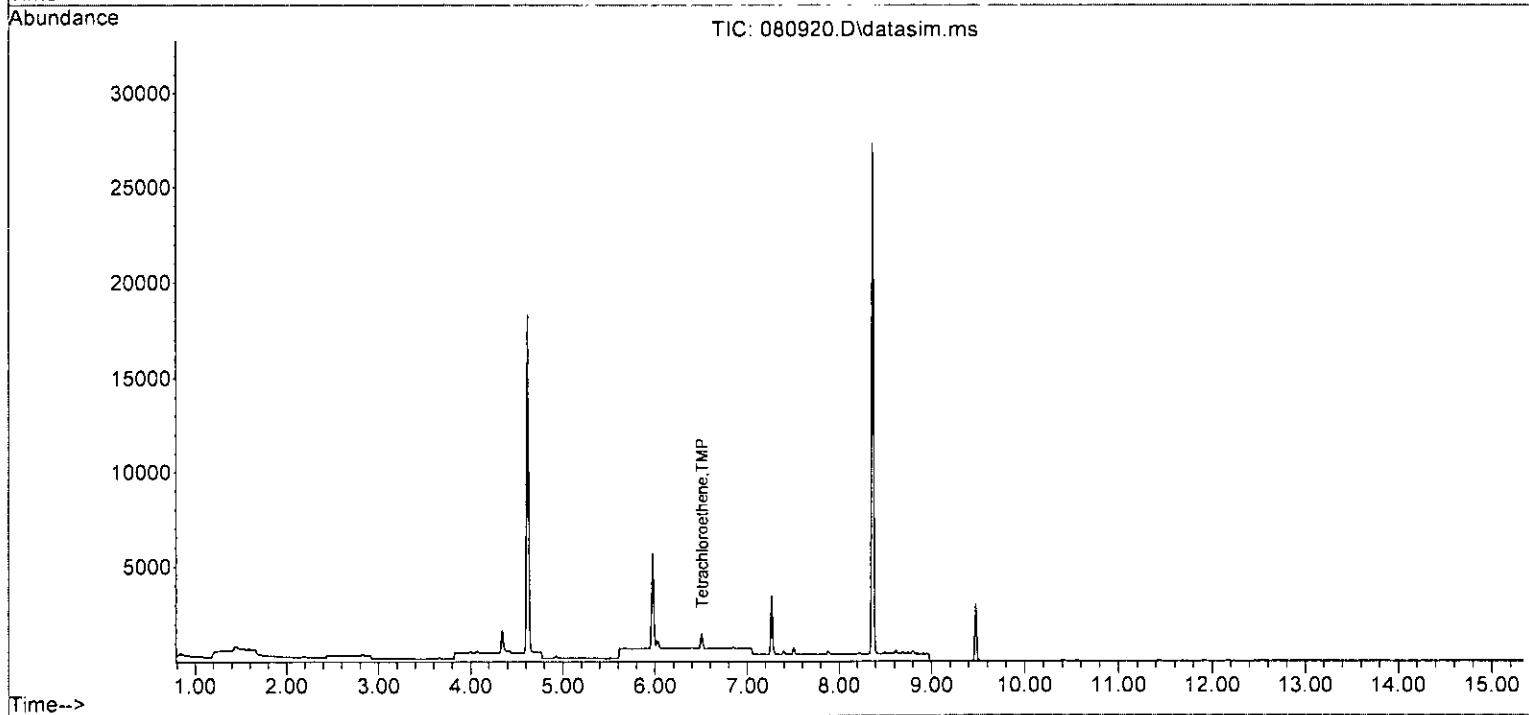
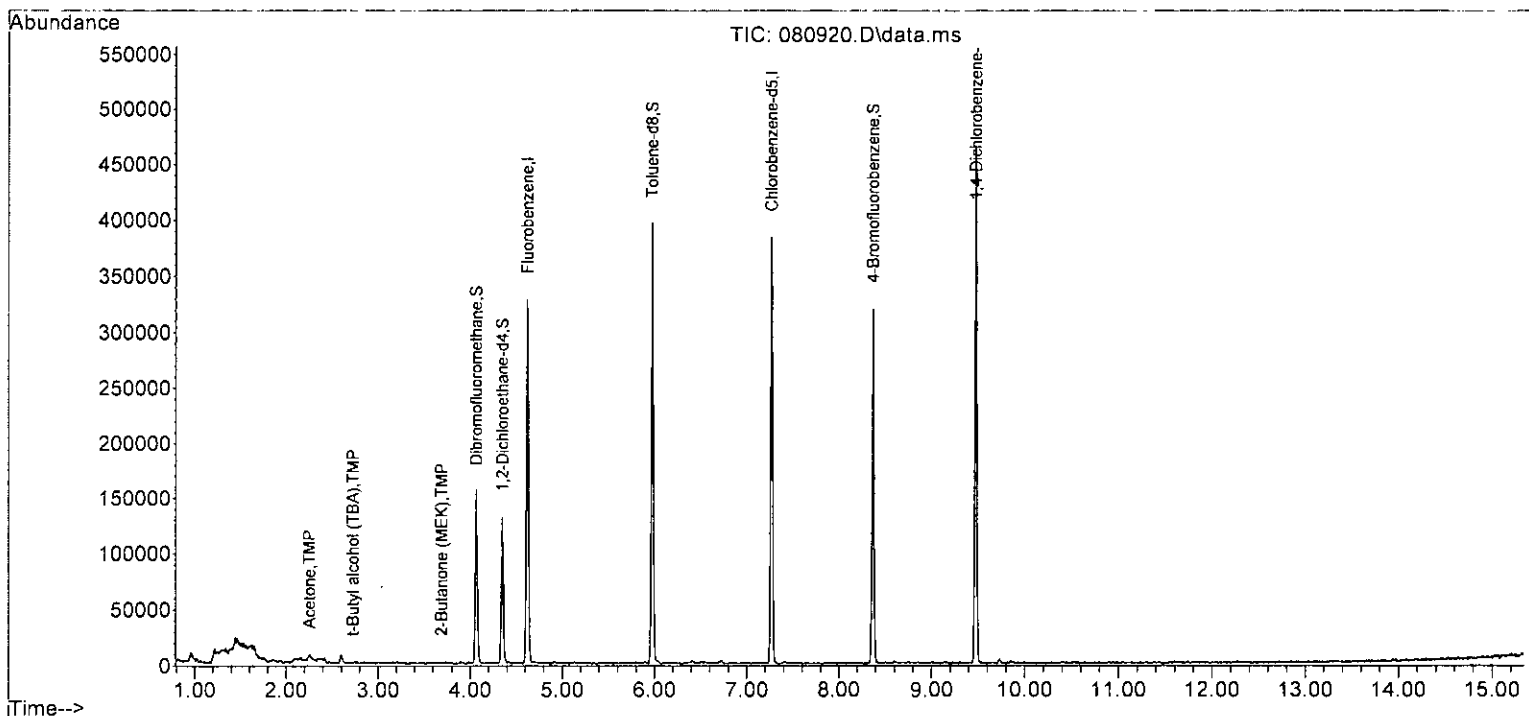
Quant Time: Aug 10 09:04:50 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	253755	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	206129	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	118357	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	69583	9.955	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.50%
30) 1,2-Dichloroethane-d4	4.35	102	17040	10.770	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	107.70%
35) Toluene-d8	5.97	98	229272	9.617	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	96.20%
57) 4-Bromofluorobenzene	8.37	95	82550	9.636	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	96.40%
Target Compounds						
					Qvalue	
11) Acetone	2.25	58	1710	1.262	ppb #	79
14) Methylene chloride	2.60	84	2973	Below Cal		78
15) t-Butyl alcohol (TBA)	2.72	59	491	0.783	ppb	58
17] trans-1,2-Dichloroethene	2.82	96	51	Below Cal		94
21) 2,2-Dichloropropane	3.64	77	146	Below Cal		48
24) 2-Butanone (MEK)	3.69	43	854	0.228	ppb	58
26] 1,2-Dichloroethane (EDC)	4.41	62	165	Below Cal		93
31] Benzene	4.38	78	112	Below Cal		87
32] Trichloroethene	4.92	95	50	Below Cal		69
40] Toluene	6.03	92	170	Below Cal		93
45] Tetrachloroethene	6.51	164	286	0.023	ppb	88
49] Ethylbenzene	7.39	91	193	Below Cal		96
51] m,p-Xylene	7.50	106	164	Below Cal		96
52] o-Xylene	7.87	106	63	Below Cal	#	75

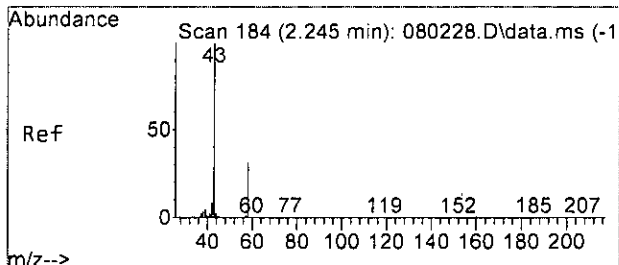
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080920.D  
 Acq On : 09 Aug 2023 01:43 pm  
 Operator : MD  
 Sample : 308148-03  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:50 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

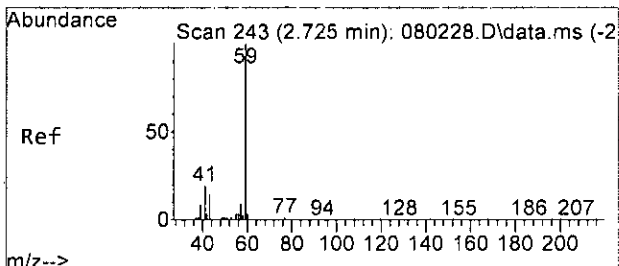
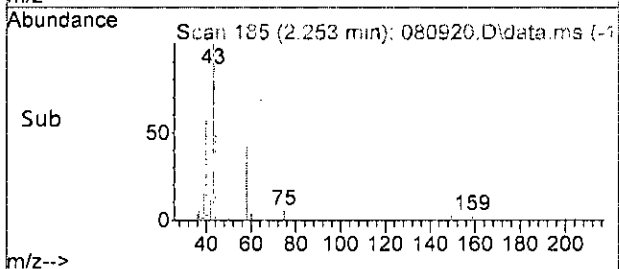
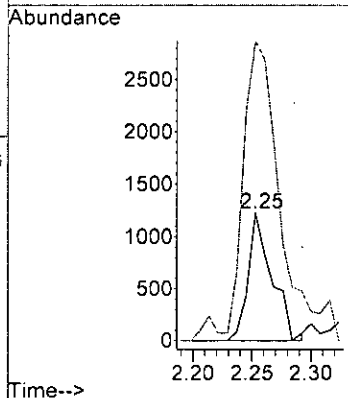
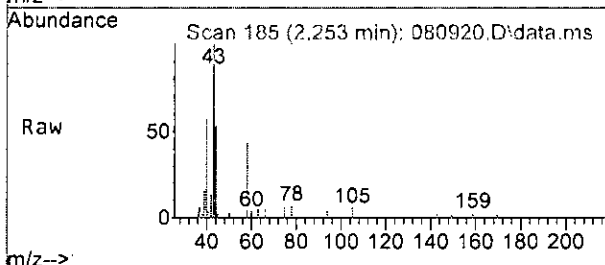






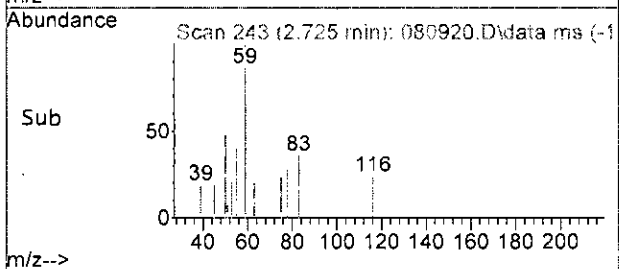
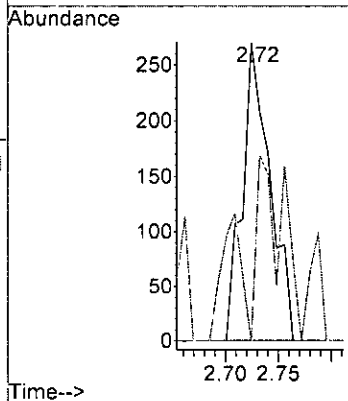
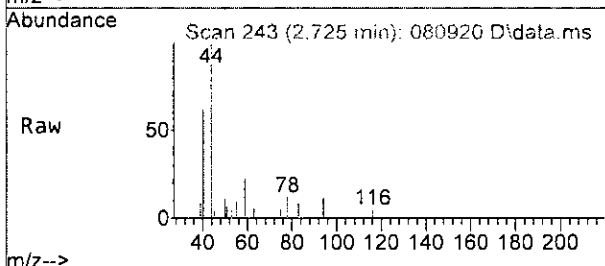
#11  
 Acetone  
 Concen: 1.262 ppb  
 RT: 2.25 min Scan# 185  
 Delta R.T. 0.008 min  
 Lab File: 080920.D  
 Acq: 09 Aug 2023 01:43 pm

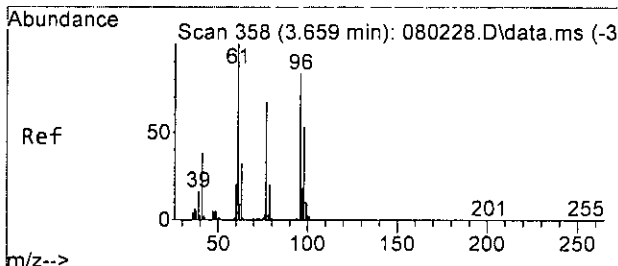
Tgt Ion: 58 Resp: 1710  
 Ion Ratio Lower Upper  
 58 100  
 43 377.0 303.0 363.0#



#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.783 ppb  
 RT: 2.72 min Scan# 243  
 Delta R.T. -0.000 min  
 Lab File: 080920.D  
 Acq: 09 Aug 2023 01:43 pm

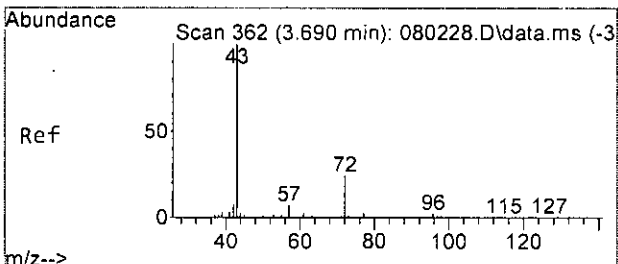
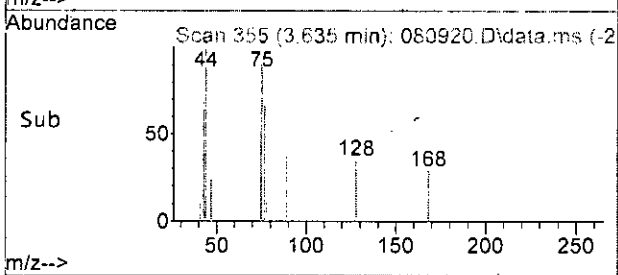
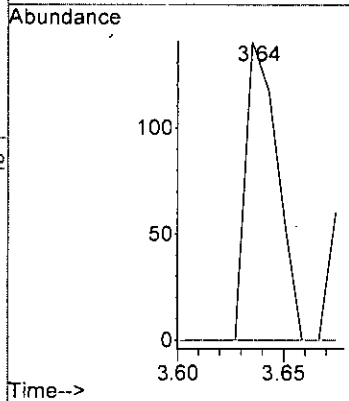
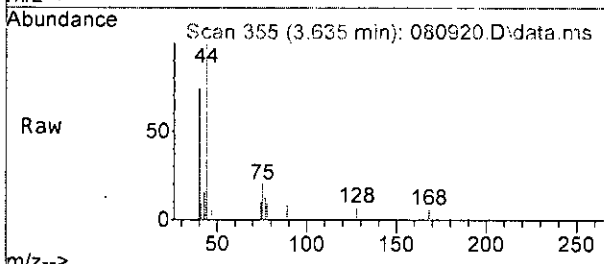
Tgt Ion: 59 Resp: 491  
 Ion Ratio Lower Upper  
 59 100  
 41 0.0 0.0 49.2





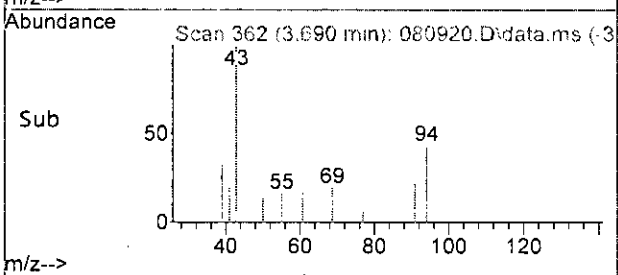
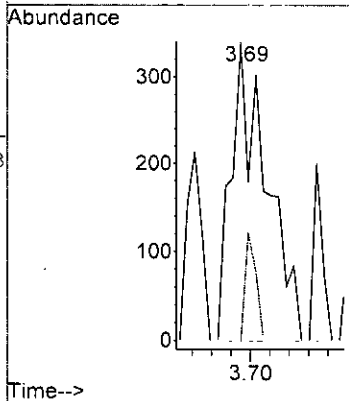
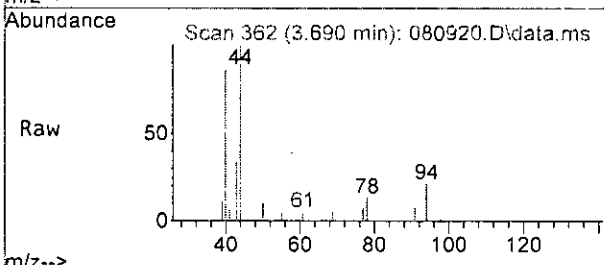
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.64 min Scan# 355  
 Delta R.T. -0.024 min  
 Lab File: 080920.D  
 Acq: 09 Aug 2023 01:43 pm

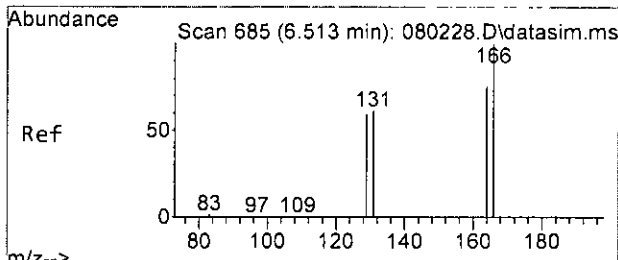
Tgt Ion: 77 Resp: 146  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 0.0 57.2



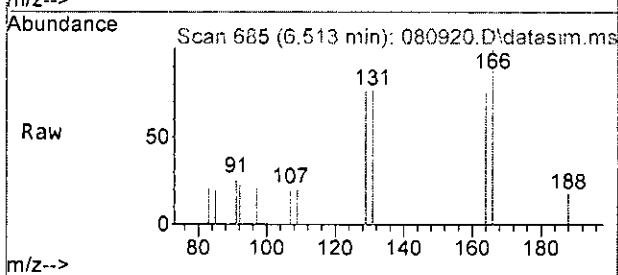
#24  
 2-Butanone (MEK)  
 Concen: 0.228 ppb  
 RT: 3.69 min Scan# 362  
 Delta R.T. -0.000 min  
 Lab File: 080920.D  
 Acq: 09 Aug 2023 01:43 pm

Tgt Ion: 43 Resp: 854  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 0.0 54.2  
 57 0.0 0.0 27.4

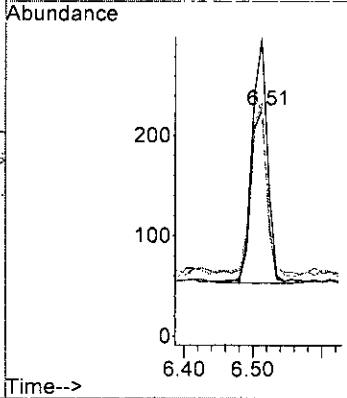
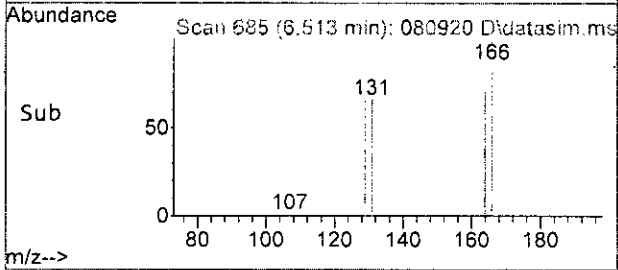




#45  
 Tetrachloroethene  
 Concen: 0.023 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. -0.000 min  
 Lab File: 080920.D  
 Acq: 09 Aug 2023 01:43 pm



Tgt Ion:164 Resp: 286  
 Ion Ratio Lower Upper  
 164 100  
 129 94.8 49.5 109.5  
 131 98.3 52.2 112.2  
 166 141.0 104.1 164.1



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080920.D  
 Acq On : 09 Aug 2023 01:43 pm  
 Operator : MD  
 Sample : 308148-03  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:50 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.62	96	253755	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	206129	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.47	152	118357	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	69583	9.955	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.50%		
30) 1,2-Dichloroethane-d4	4.35	102	17040	10.770	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	107.70%		
35) Toluene-d8	5.97	98	229272	9.617	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	96.20%		
57) 4-Bromofluorobenzene	8.37	95	82550	9.636	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	96.40%		
Target Compounds							
2) Ethanol	1.92	45	219	No Calib			Qvalue
4) Dichlorodifluoromethane	1.10	85	77	N.D.			
5) Chloromethane	1.21	50	4118	N.D.			
6) Vinyl chloride	1.29	62	115	N.D.			
7) Bromomethane	0.00		0	N.D.			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	1.81	101	81	N.D.			
10) 2-Propanol	2.39	45	2459	No Calib			
11) Acetone	2.25	58	1710	1.262	ppb	# 79	
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	3.05	57	64	N.D.			
14) Methylene chloride	2.60	84	2973	Below Cal		78	
15) t-Butyl alcohol (TBA)	2.72	59	491	0.783	ppb	- 58	
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.82	96	51	Below Cal		94	
18) Diisopropyl ether (DIPE)	3.23	45	62	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.64	77	146	Below Cal		48	
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	3.93	83	83	N.D.			
24) 2-Butanone (MEK)	3.69	43	854	0.228	ppb	58	
25) t-Amyl methyl ether (T...)	4.43	73	133	N.D.			
26] 1,2-Dichloroethane (EDC)	4.41	62	165	Below Cal		93	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	4.17	75	67	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.38	78	112	Below Cal		87	
32] Trichloroethene	4.92	95	50	Below Cal		69	
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080920.D  
 Acq On : 09 Aug 2023 01:43 pm  
 Operator : MD  
 Sample : 308148-03  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

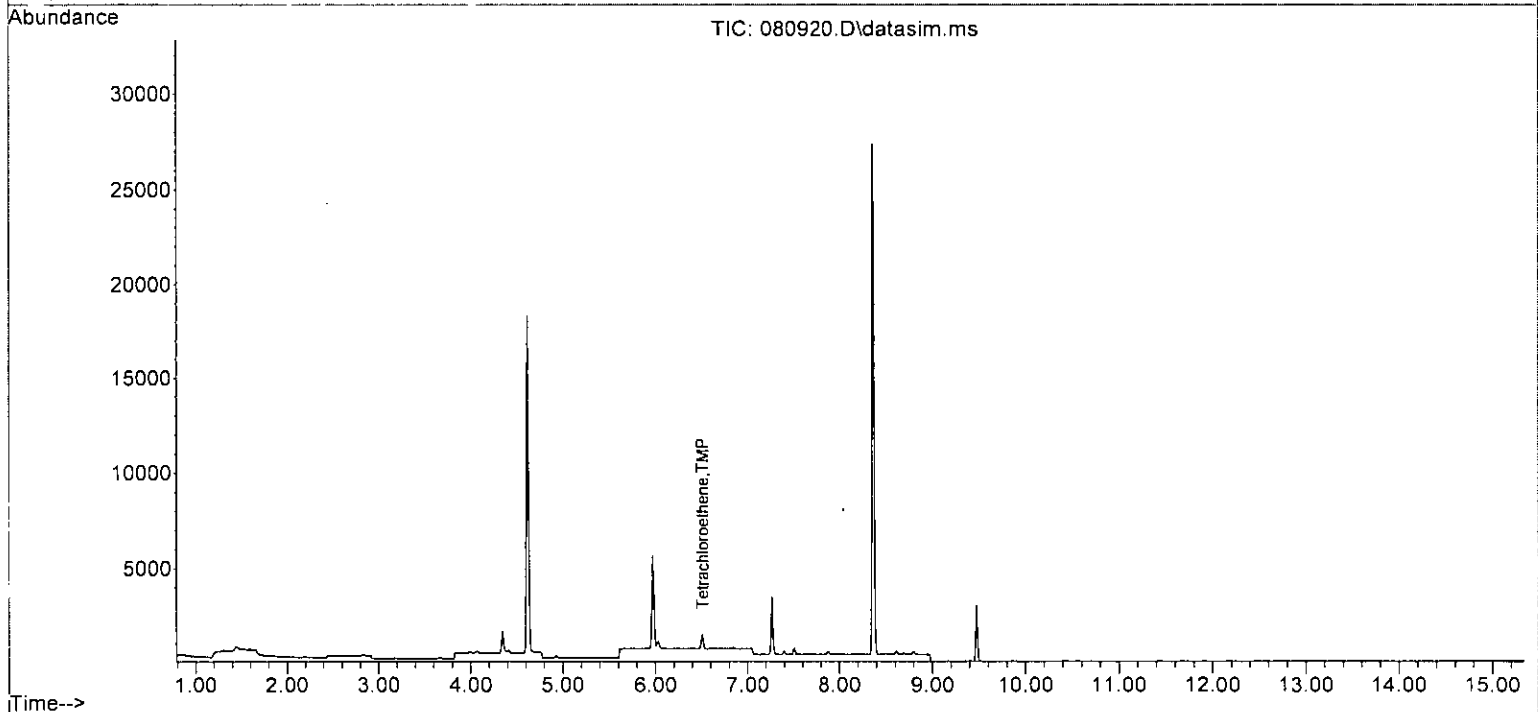
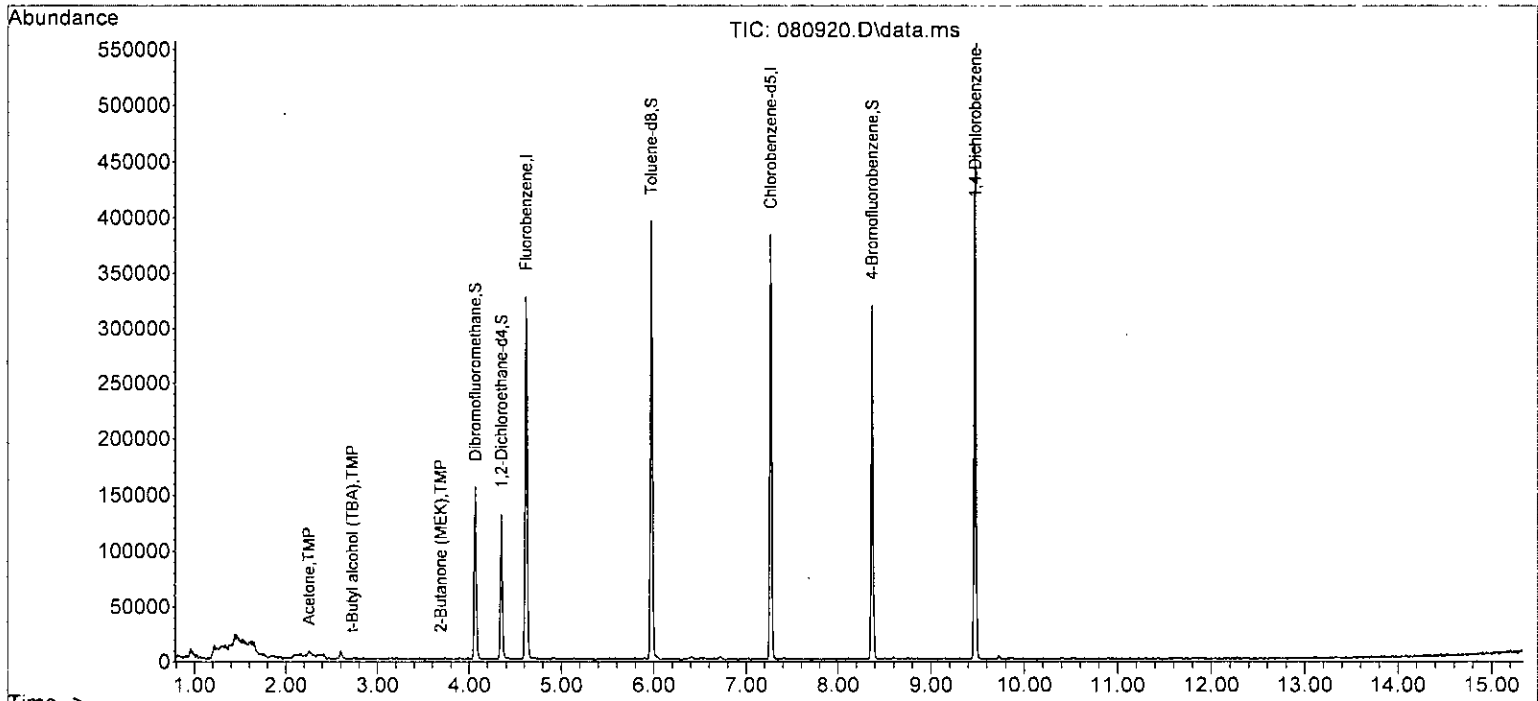
Quant Time: Aug 10 09:04:50 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.99	85	86		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.03	92	170	Below Cal		93
41) trans-1,3-Dichloropropene	6.22	75	181		N.D.	
42) 1,1,2-Trichloroethane	6.39	83	61		N.D.	
43) 2-Hexanone	6.55	43	65		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	286	0.023 ppb		88
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	7.29	112	65		N.D.	
49] Ethylbenzene	7.39	91	193	Below Cal		96
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.50	106	164	Below Cal		96
52] o-Xylene	7.87	106	63	Below Cal	#	75
53) Styrene	7.88	104	74		N.D.	
54) Isopropylbenzene	8.23	105	240		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.61	91	438		N.D.	
59) Bromobenzene	8.50	156	100		N.D.	
60) 1,3,5-Trimethylbenzene	8.86	105	103		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.69	91	206		N.D.	
64) 4-Chlorotoluene	8.79	91	273		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.14	105	163		N.D.	
67) sec-Butylbenzene	9.31	105	201		N.D.	
68) p-Isopropyltoluene	9.46	119	458		N.D.	
69) 1,3-Dichlorobenzene	9.41	146	213		N.D.	
70) 1,4-Dichlorobenzene	9.50	146	270		N.D.	
71) 1,2-Dichlorobenzene	9.85	146	133		N.D.	
72) 1,2-Dibromo-3-chloropr...	10.41	75	53		N.D.	
73) 1,2,4-Trichlorobenzene	11.43	180	219		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	383		N.D.	
76) 1,2,3-Trichlorobenzene	11.91	180	287		N.D.	

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

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080920.D  
 Acq On : 09 Aug 2023 01:43 pm  
 Operator : MD  
 Sample : 308148-03  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:50 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080923.D  
 Acq On : 09 Aug 2023 02:51 pm  
 Operator : MD  
 Sample : 308148-04  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

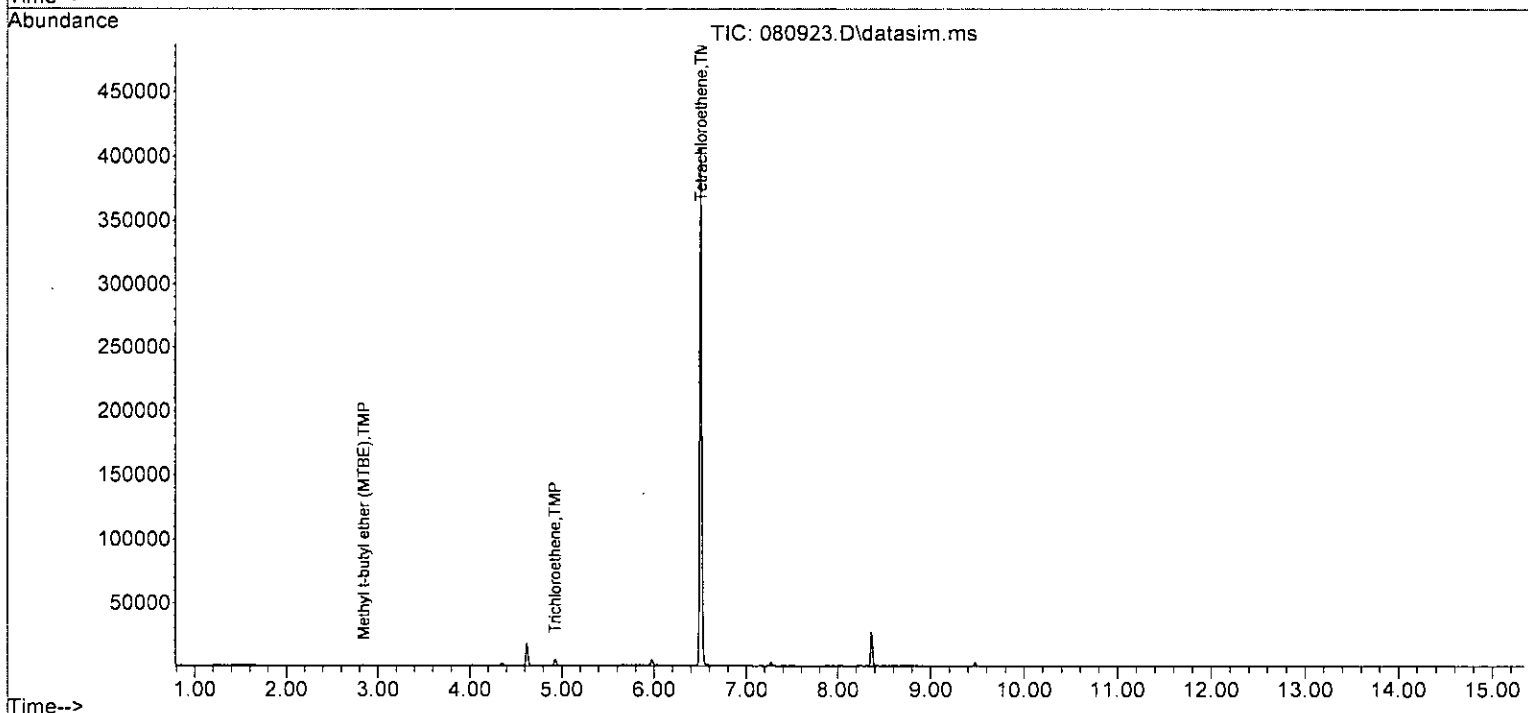
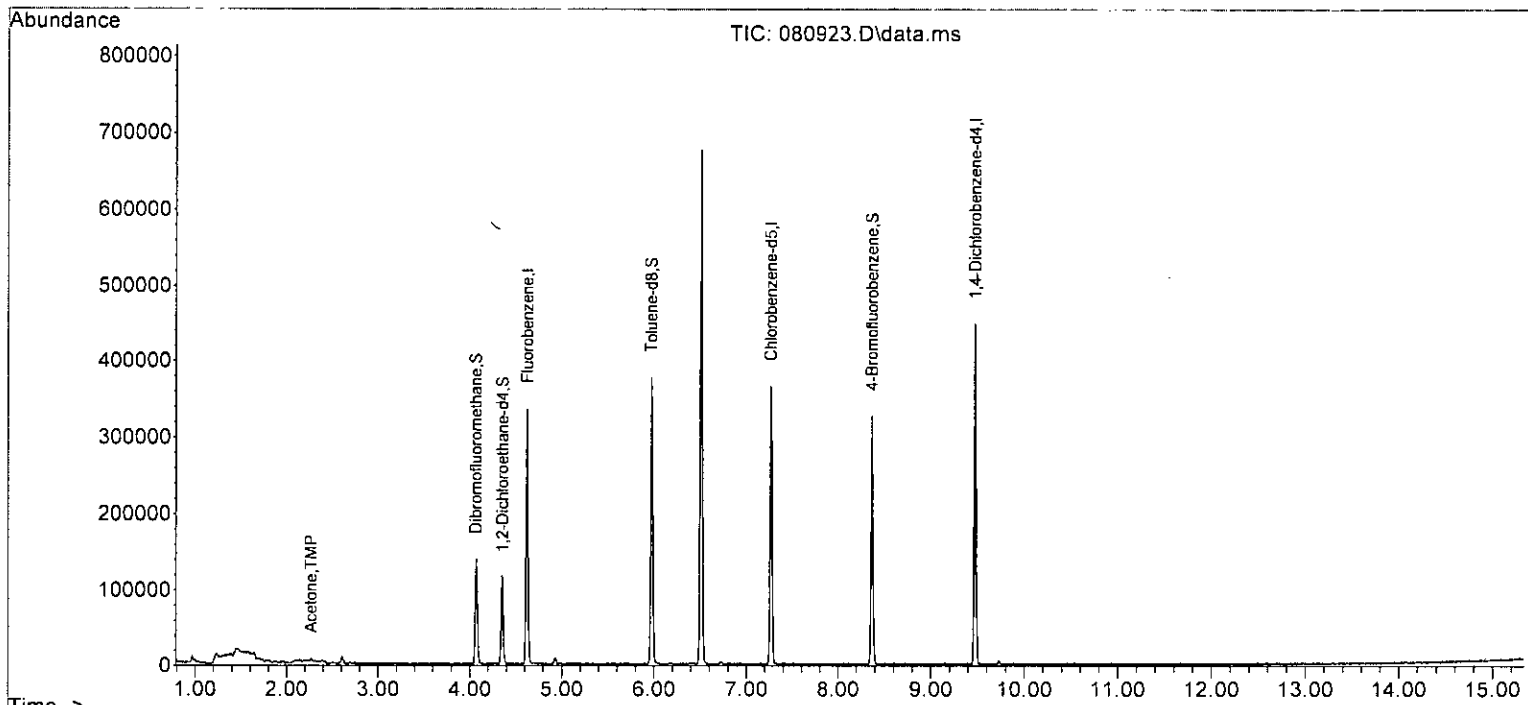
Quant Time: Aug 10 09:05:02 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	253440	10.000	ppb	0.00
39) Chlorobenzene-d5	7.26	117	199980	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	116046	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	68846	9.862	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.60%
30) 1,2-Dichloroethane-d4	4.36	102	15461	9.784	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	97.80%
35) Toluene-d8	5.97	98	235385	9.886	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	98.90%
57) 4-Bromofluorobenzene	8.37	95	86974	10.355	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	103.50%
Target Compounds						
11) Acetone	2.27	58	1376	1.017	ppb	94
14) Methylene chloride	2.61	84	3048	Below Cal		87
16] Methyl t-butyl ether (...)	2.85	73	545	0.035	ppb #	11
21) 2,2-Dichloropropane	3.67	77	138	Below Cal		46
26] 1,2-Dichloroethane (EDC)	4.41	62	162	Below Cal		94
31] Benzene	4.38	78	119	Below Cal		97
32] Trichloroethene	4.93	95	1940	0.251	ppb	91
40] Toluene	6.03	92	201	Below Cal		98
45] Tetrachloroethene	6.51	164	148449	21.570	ppb	99
49] Ethylbenzene	7.39	91	155	Below Cal		100
51] m,p-Xylene	7.51	106	133	Below Cal		82
52] o-Xylene	7.87	106	50	Below Cal #		68

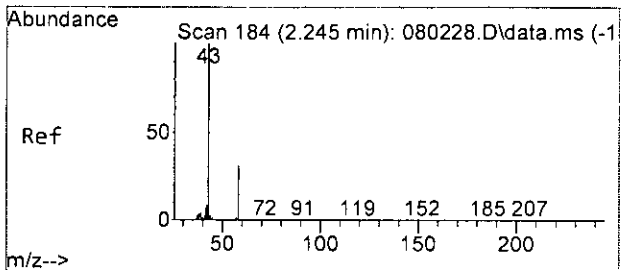
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080923.D  
 Acq On : 09 Aug 2023 02:51 pm  
 Operator : MD  
 Sample : 308148-04  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:05:02 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

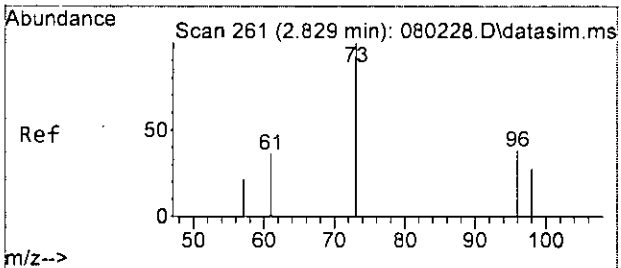
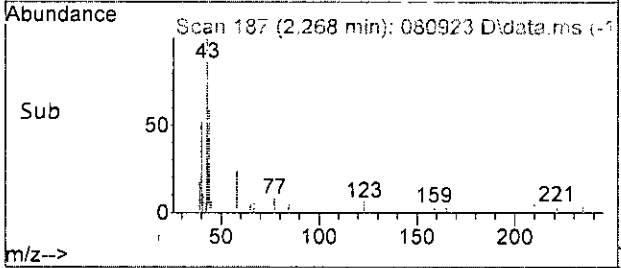
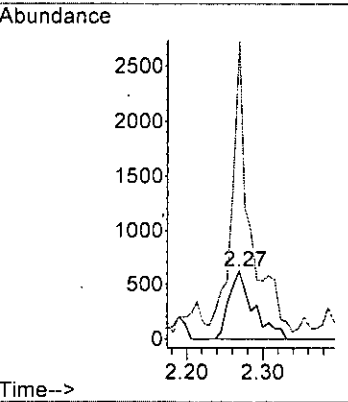
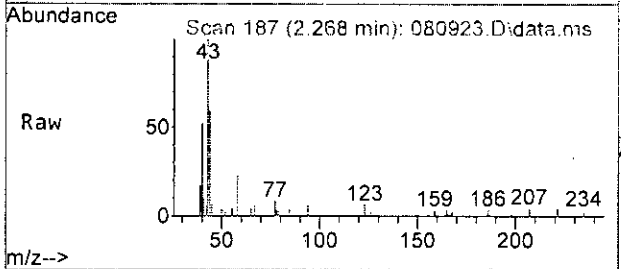






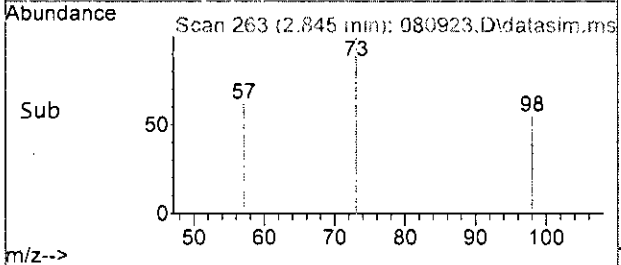
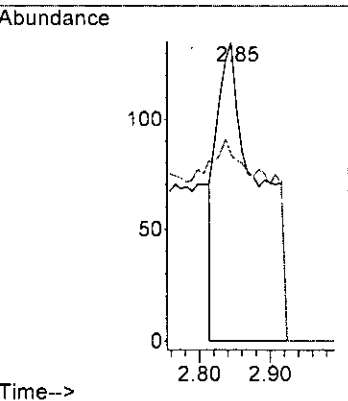
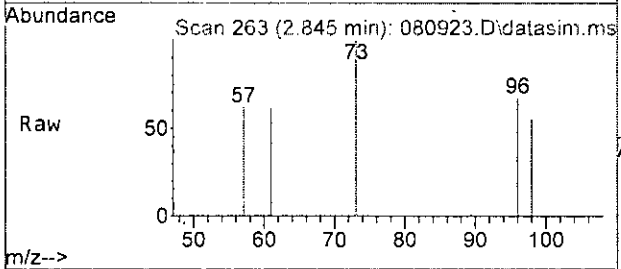
#11  
 Acetone  
 Concen: 1.017 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. 0.023 min  
 Lab File: 080923.D  
 Acq: 09 Aug 2023 02:51 pm

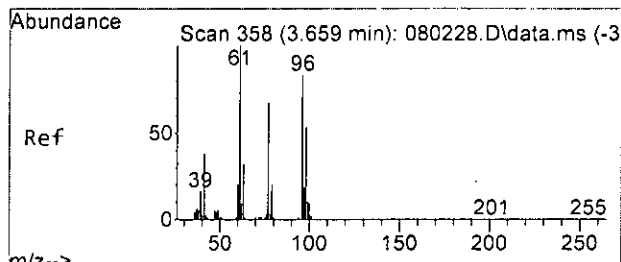
Tgt Ion: 58 Resp: 1376  
 Ion Ratio Lower Upper  
 58 100  
 43 321.3 303.0 363.0



#16  
 Methyl t-butyl ether (MTBE)  
 Concen: 0.035 ppb  
 RT: 2.85 min Scan# 263  
 Delta R.T. 0.016 min  
 Lab File: 080923.D  
 Acq: 09 Aug 2023 02:51 pm

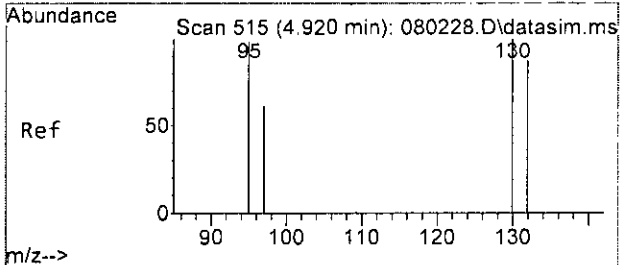
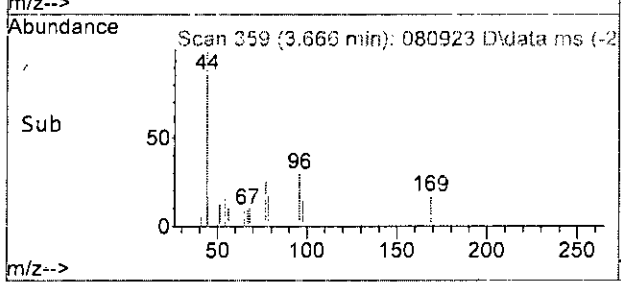
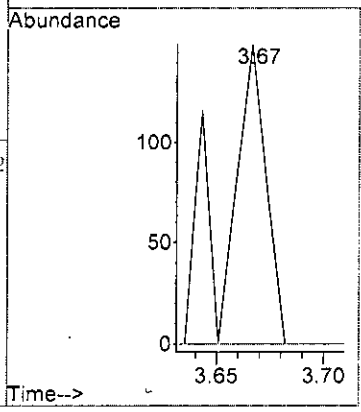
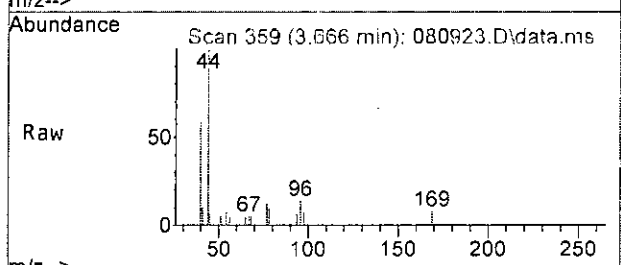
Tgt Ion: 73 Resp: 545  
 Ion Ratio Lower Upper  
 73 100  
 57 62.2 0.0 50.7#





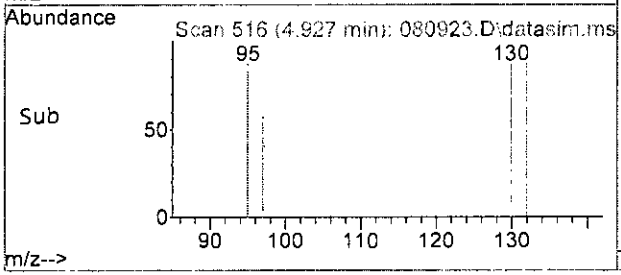
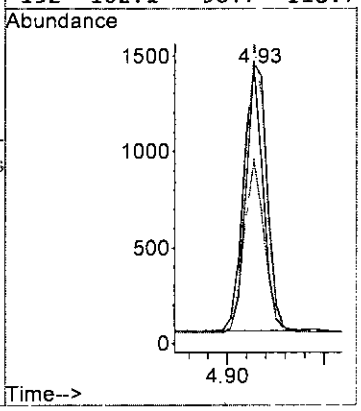
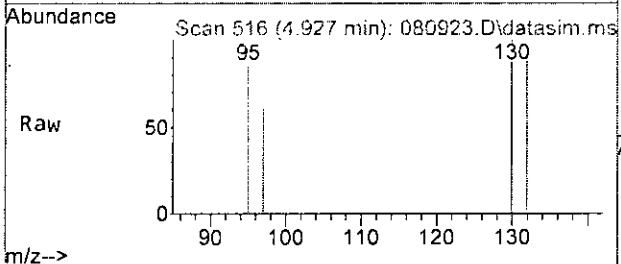
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.67 min Scan# 359  
 Delta R.T. 0.008 min  
 Lab File: 080923.D  
 Acq: 09 Aug 2023 02:51 pm

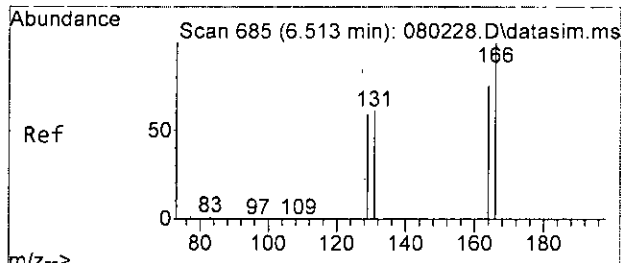
Tgt Ion	Resp	Lower	Upper
77	100		
97	55.0	0.0	57.2



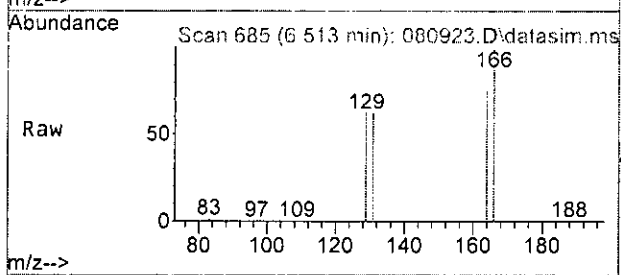
#32  
 Trichloroethene  
 Concen: 0.251 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. 0.008 min  
 Lab File: 080923.D  
 Acq: 09 Aug 2023 02:51 pm

Tgt Ion	Resp	Lower	Upper
95	100		
97	65.2	31.8	91.8
130	109.5	72.0	132.0
132	102.1	58.7	118.7



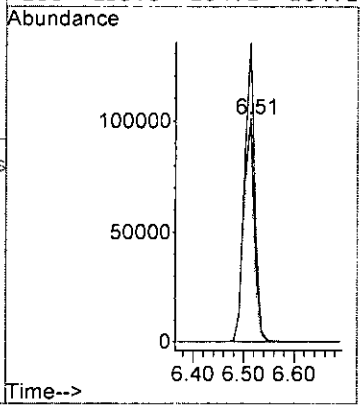
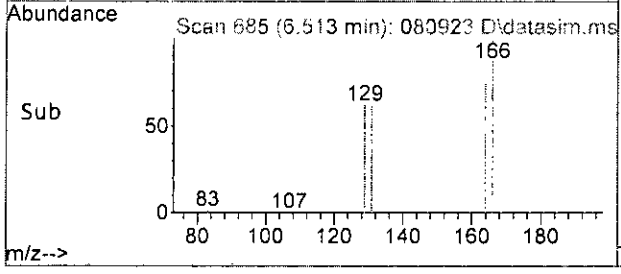


#45  
 Tetrachloroethene  
 Concen: 21.570 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. -0.000 min  
 Lab File: 080923.D  
 Acq: 09 Aug 2023 02:51 pm



Tgt Ion:164 Resp: 148449

Ion	Ratio	Lower	Upper
164	100		
129	82.4	49.5	109.5
131	83.0	52.2	112.2
166	133.8	104.1	164.1



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080923.D  
 Acq On : 09 Aug 2023 02:51 pm  
 Operator : MD  
 Sample : 308148-04  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:05:02 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	253440	10.000	ppb	0.00
39) Chlorobenzene-d5	7.26	117	199980	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	116046	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	68846	9.862	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.60%
30) 1,2-Dichloroethane-d4	4.36	102	15461	9.784	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	97.80%
35) Toluene-d8	5.97	98	235385	9.886	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	98.90%
57) 4-Bromofluorobenzene	8.37	95	86974	10.355	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	103.50%
Target Compounds						
2) Ethanol	1.94	45	930	No Calib	#	
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.23	50	4923	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) Bromomethane	0.00		0	N.D. d		
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	1.81	101	207	N.D.		
10) 2-Propanol	2.39	45	657	No Calib		
11) Acetone	2.27	58	1376	1.017	ppb	94
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	3.07	57	199	N.D.		
14) Methylene chloride	2.61	84	3048	Below Cal		87
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16] Methyl t-butyl ether (...)	2.85	73	545	0.035	ppb	# 11
17) trans-1,2-Dichloroethene	0.00		0	N.D.		
18) Diisopropyl ether (DIPE)	3.21	45	87	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.67	77	138	Below Cal		46
22) cis-1,2-Dichloroethene	3.67	96	73	N.D.		
23) Chloroform	3.95	83	440	N.D.		
24) 2-Butanone (MEK)	3.71	43	310	N.D.		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26] 1,2-Dichloroethane (EDC)	4.41	62	162	Below Cal		94
27) 1,1,1-Trichloroethane	4.08	97	54	N.D.		
28) 1,1-Dichloropropene	4.21	75	60	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.38	78	119	Below Cal		97
32] Trichloroethene	4.93	95	1940	0.251	ppb	91
33) 1,2-Dichloropropane	5.21	63	126	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080923.D  
 Acq On : 09 Aug 2023 02:51 pm  
 Operator : MD  
 Sample : 308148-04  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

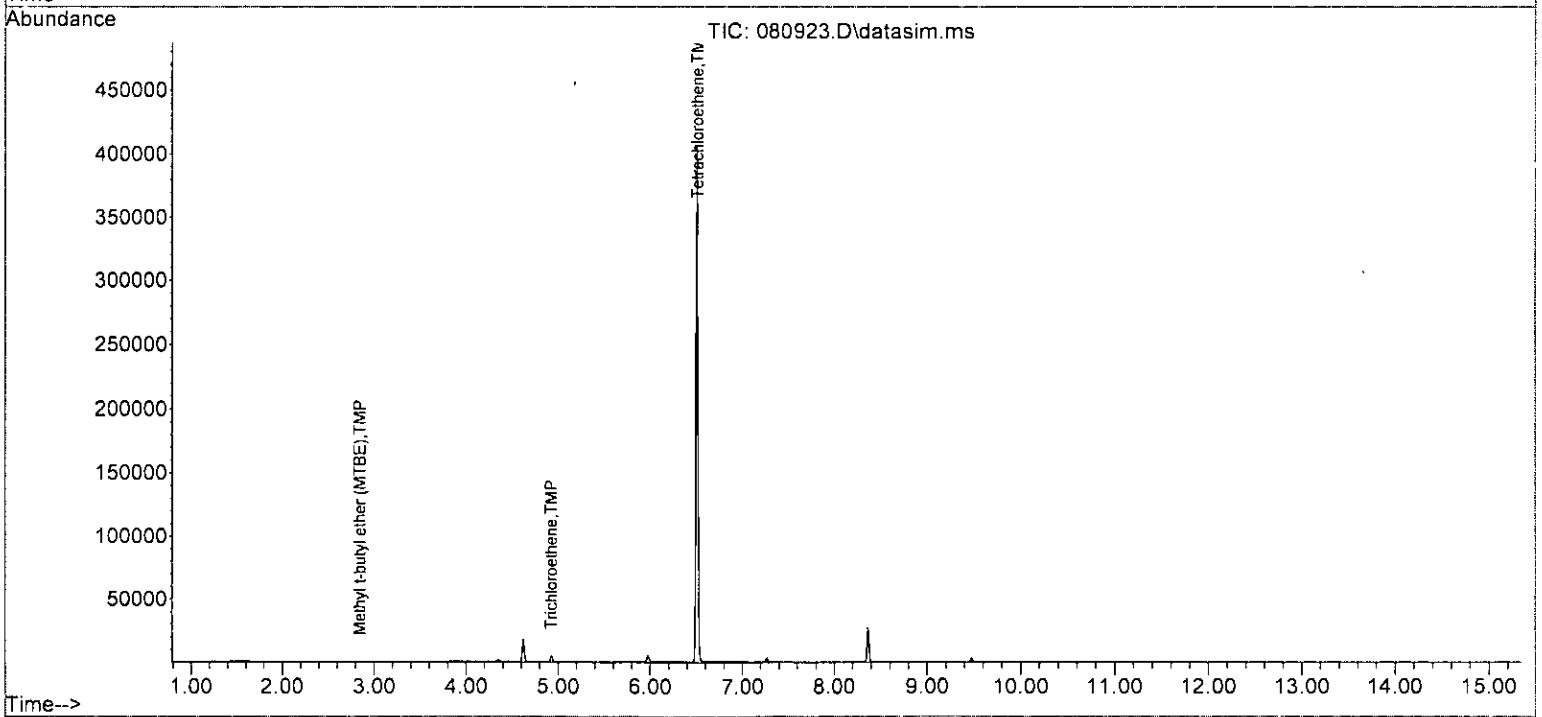
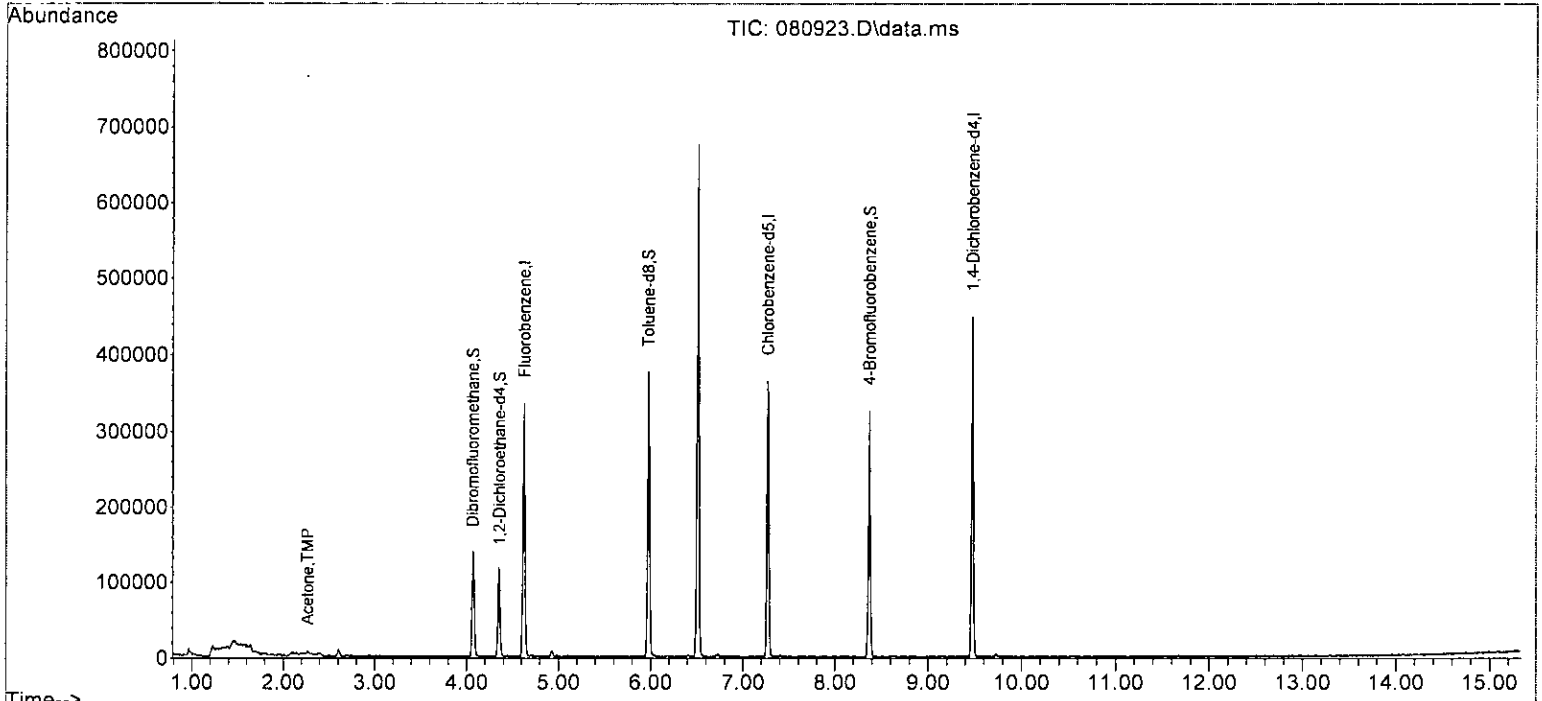
Quant Time: Aug 10 09:05:02 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	5.76	75	94		N.D.	
40] Toluene	6.03	92	201	Below Cal		98
41) trans-1,3-Dichloropropene	6.38	75	65		N.D.	
42) 1,1,2-Trichloroethane	6.40	83	143		N.D.	
43) 2-Hexanone	6.66	43	254		N.D.	
44) 1,3-Dichloropropane	6.47	76	191		N.D.	
45] Tetrachloroethene	6.51	164	148449	21.570	ppb	99
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.39	91	155	Below Cal		100
50) 1,1,1,2-Tetrachloroethane	7.41	131	79		N.D.	
51] m,p-Xylene	7.51	106	133	Below Cal		82
52] o-Xylene	7.87	106	50	Below Cal	#	68
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.23	105	153		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.61	91	273		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.83	105	79		N.D.	
61) 1,1,2,2-Tetrachloroethane	8.37	83	51		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.72	91	96		N.D.	
64) 4-Chlorotoluene	8.80	91	132		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	471		N.D.	
67) sec-Butylbenzene	9.31	105	216		N.D.	
68) p-Isopropyltoluene	9.46	119	395		N.D.	
69) 1,3-Dichlorobenzene	9.42	146	116		N.D.	
70) 1,4-Dichlorobenzene	9.50	146	104		N.D.	
71) 1,2-Dichlorobenzene	9.87	146	89		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.44	180	227		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.67	128	354		N.D.	
76) 1,2,3-Trichlorobenzene	11.92	180	231		N.D.	

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

Data Path : Y:\Proc\_GCMS11\08-09-23\  
Data File : 080923.D  
Acq On : 09 Aug 2023 02:51 pm  
Operator : MD  
Sample : 308148-04  
Misc : water  
ALS Vial : 14 Sample Multiplier: 1  
InstName : GCMS11

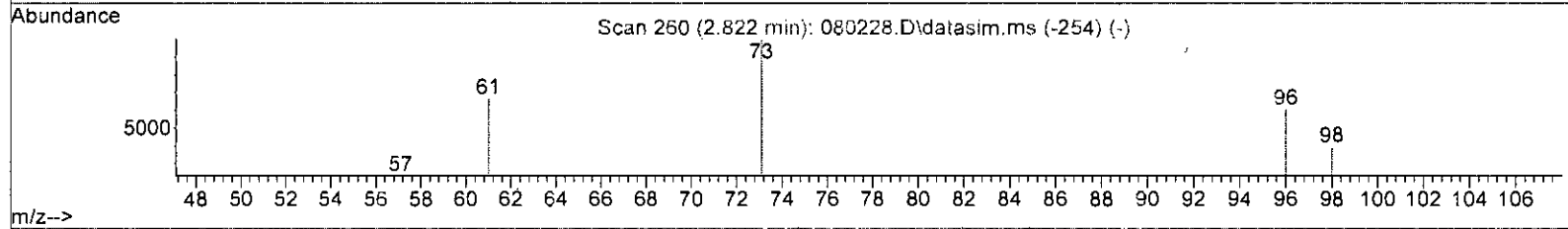
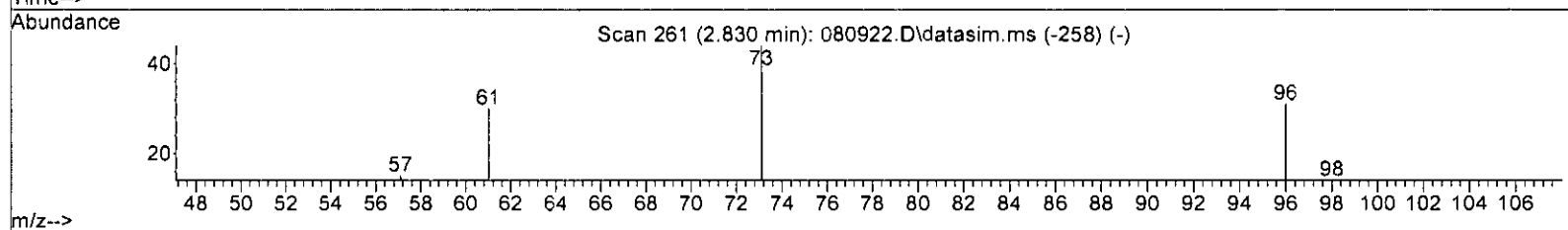
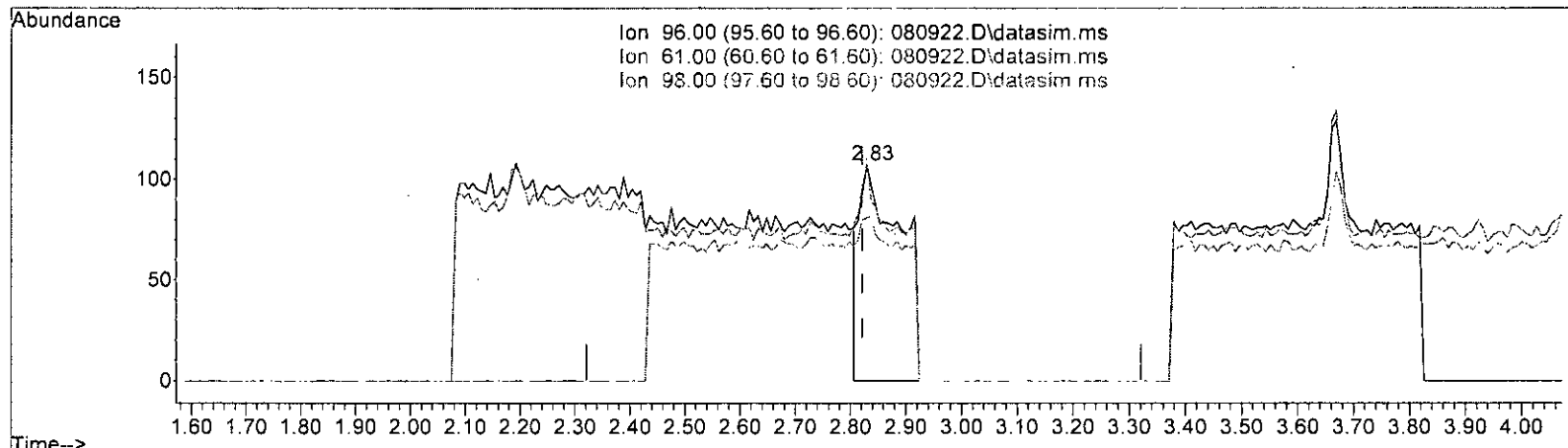
Quant Time: Aug 10 09:05:02 2023  
Quant Method : Y:\Methods\Inst11\080223vms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Aug 03 10:33:12 2023  
Response via : Initial Calibration  
DataAcq Meth:VM042423.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080922.D  
 Acq On : 09 Aug 2023 02:29 pm  
 Operator : MD  
 Sample : 308148-05  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:58 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080922.D\data.ms

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

2.830min (+ 0.008) 0.071 ppb

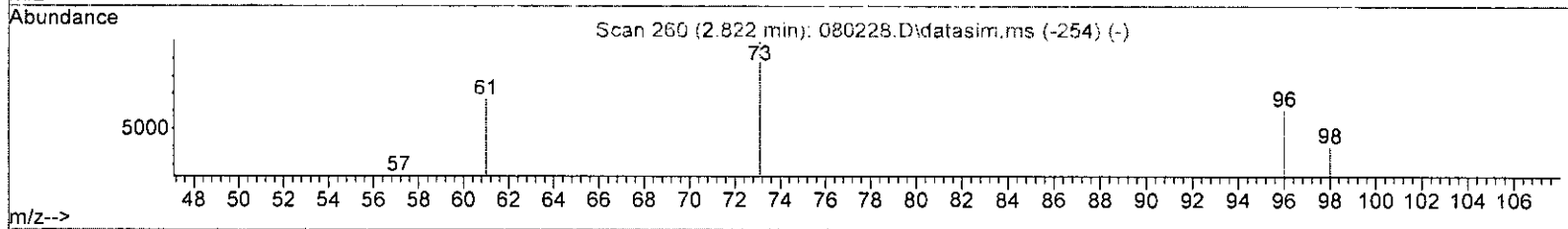
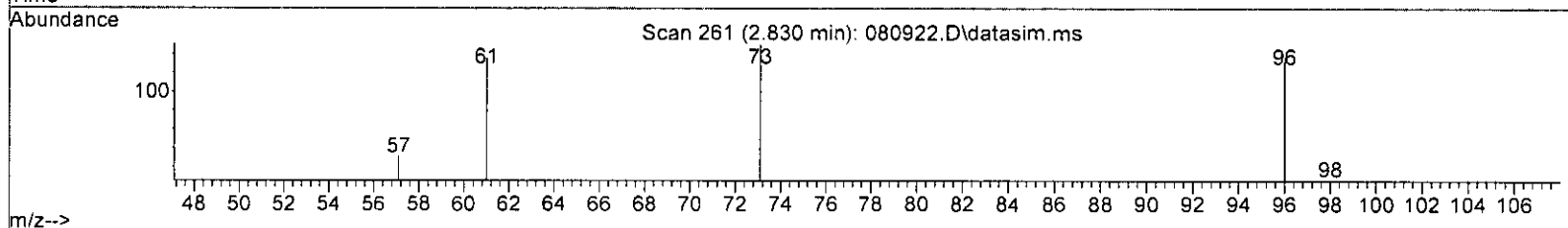
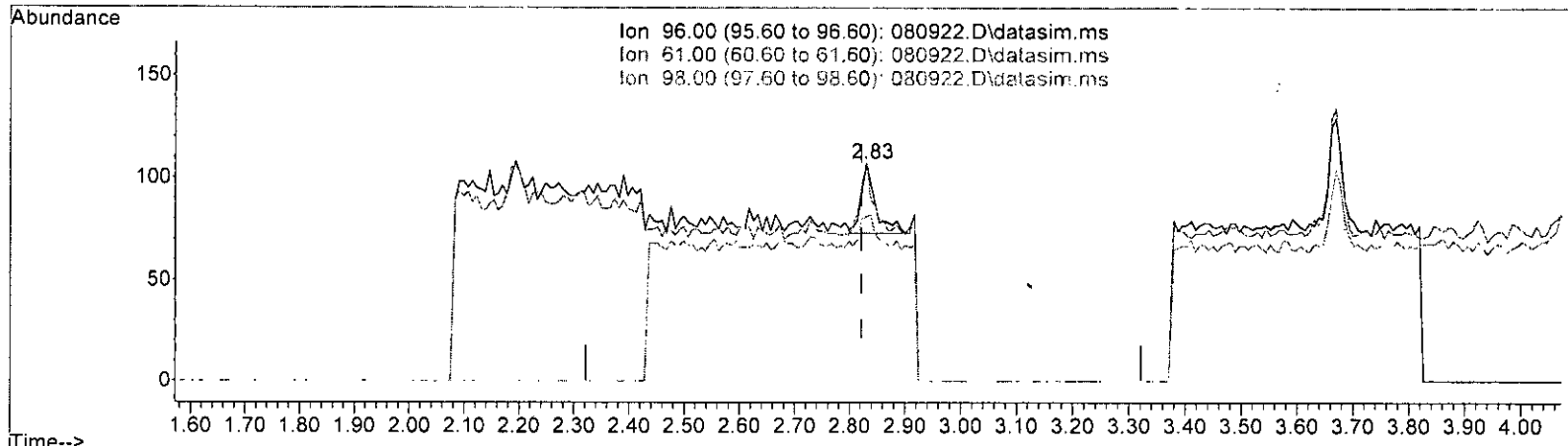
response 548

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	109.90	100.00
98.00	65.30	75.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080922.D  
 Acq On : 09 Aug 2023 02:29 pm  
 Operator : MD  
 Sample : 308148-05  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:58 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



TIC: 080922.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.830min (+ 0.008) -0.002 ppb m

response	62
Ion	Exp% Act%
96.00	100.00 100.00
61.00	109.90 100.00
98.00	65.30 75.70
0.00	0.00 0.00



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080922.D  
 Acq On : 09 Aug 2023 02:29 pm  
 Operator : MD  
 Sample : 308148-05  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

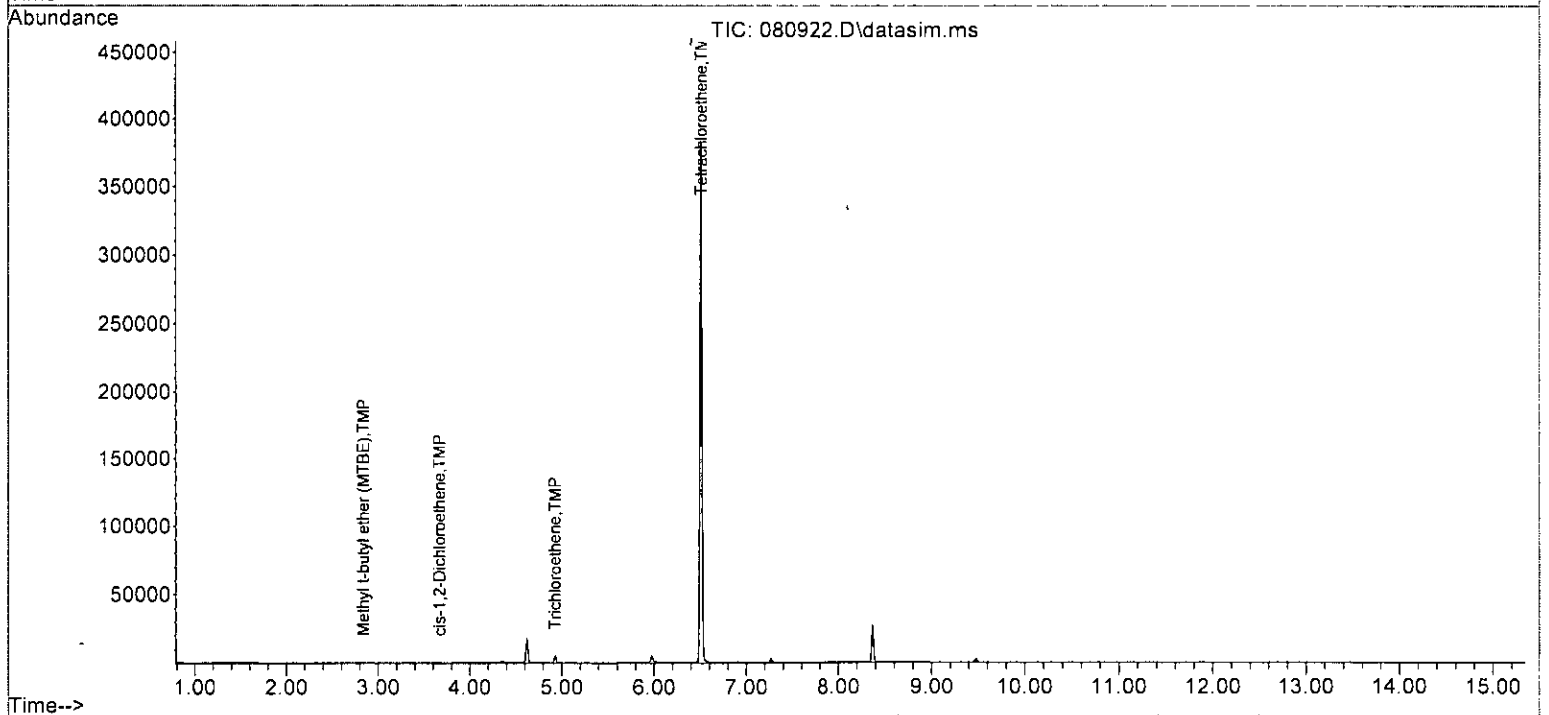
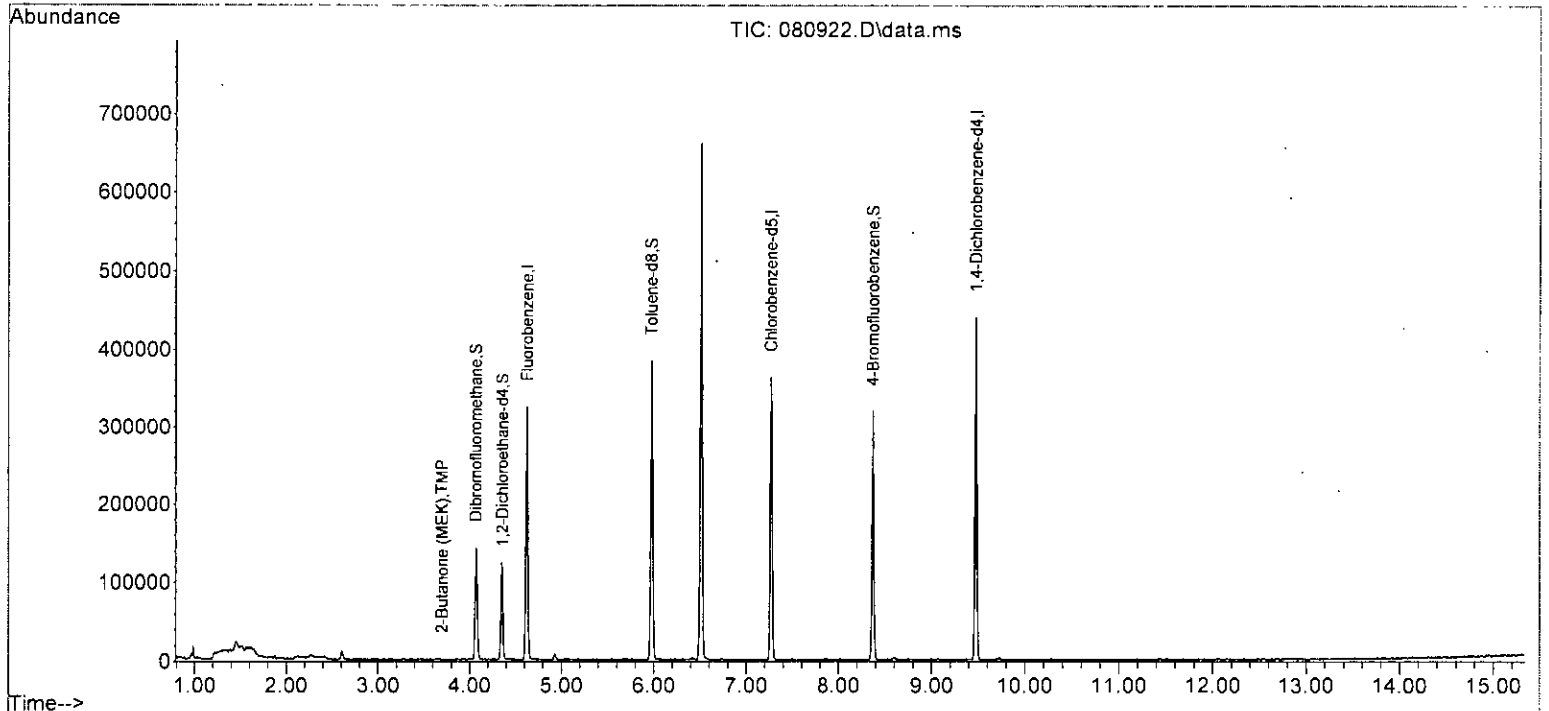
Quant Time: Aug 10 09:04:58 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

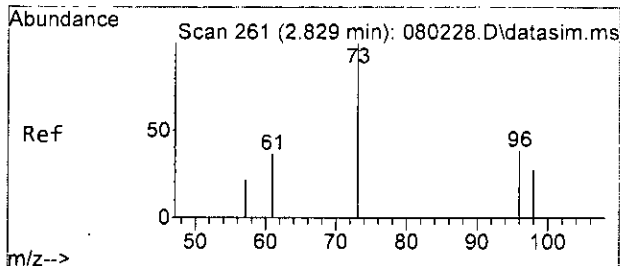
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	251658	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	197292	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	113126	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	71912	10.374	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	103.70%
30) 1,2-Dichloroethane-d4	4.36	102	16995	10.831	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	108.30%
35) Toluene-d8	5.97	98	230942	9.768	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.70%
57) 4-Bromofluorobenzene	8.37	95	85516	10.444	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	104.40%
Target Compounds						
16] Methyl t-butyl ether (...)	2.84	73	571	0.037	ppb	# 8
17] trans-1,2-Dichloroethene	2.83	96	62m	Below Cal		
21] 2,2-Dichloropropane	3.64	77	303	Below Cal		48
22] cis-1,2-Dichloroethene	3.67	96	89	0.012	ppb	97
24] 2-Butanone (MEK)	3.70	43	392	0.105	ppb	58
26] 1,2-Dichloroethane (EDC)	4.41	62	163	Below Cal		100
31] Benzene	4.39	78	129	Below Cal		75
32] Trichloroethene	4.93	95	1868	0.244	ppb	89
40] Toluene	6.03	92	169	Below Cal		91
45] Tetrachloroethene	6.51	164	143585	21.147	ppb	99
49] Ethylbenzene	7.40	91	154	Below Cal		97
51] m,p-Xylene	7.50	106	124	Below Cal		99
52] o-Xylene	7.88	106	53	Below Cal		# 79
-----						

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

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080922.D  
 Acq On : 09 Aug 2023 02:29 pm  
 Operator : MD  
 Sample : 308148-05  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

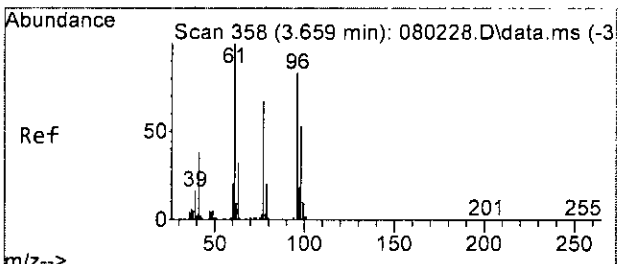
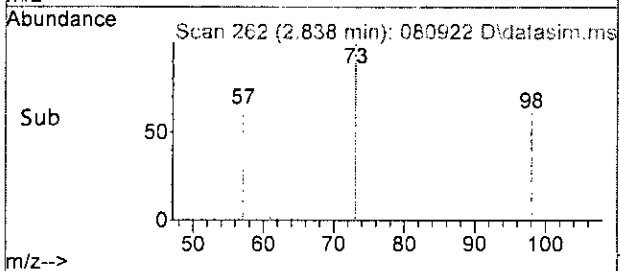
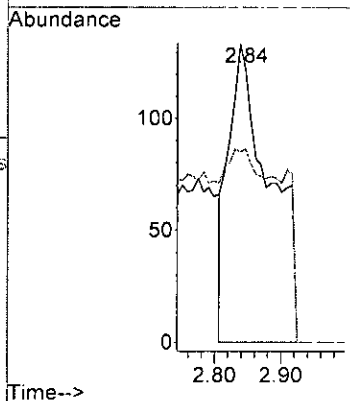
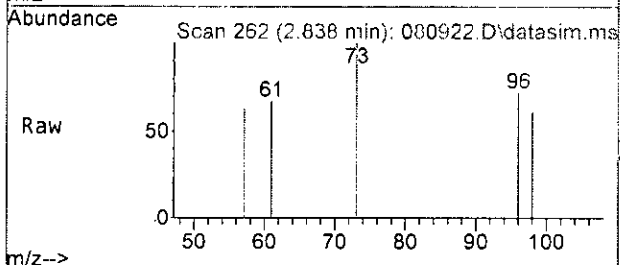
Quant Time: Aug 10 09:04:58 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M





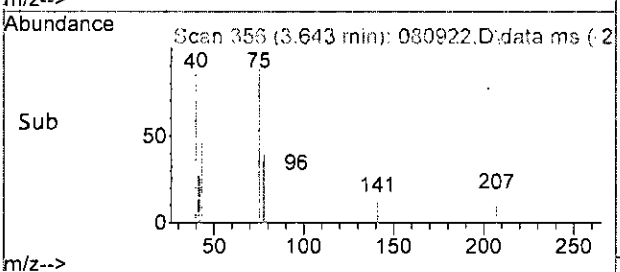
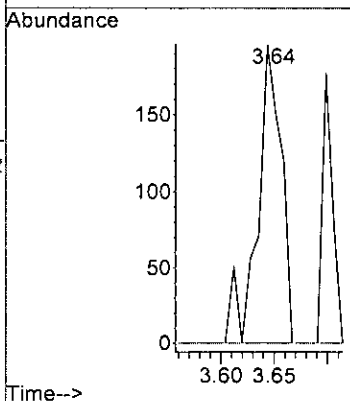
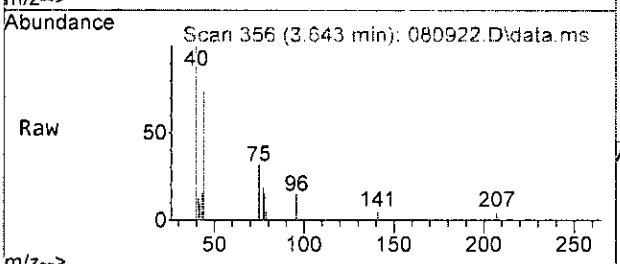
#16  
 Methyl t-butyl ether (MTBE)  
 Concen: 0.037 ppb  
 RT: 2.84 min Scan# 262  
 Delta R.T. 0.008 min  
 Lab File: 080922.D  
 Acq: 09 Aug 2023 02:29 pm

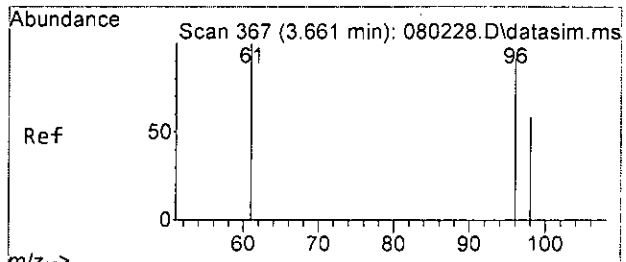
Tgt Ion: 73 Resp: 571  
 Ion Ratio Lower Upper  
 73 100  
 57 63.4 0.0 50.7#



#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.64 min Scan# 356  
 Delta R.T. -0.015 min  
 Lab File: 080922.D  
 Acq: 09 Aug 2023 02:29 pm

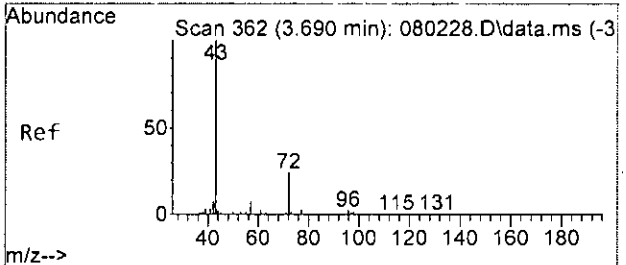
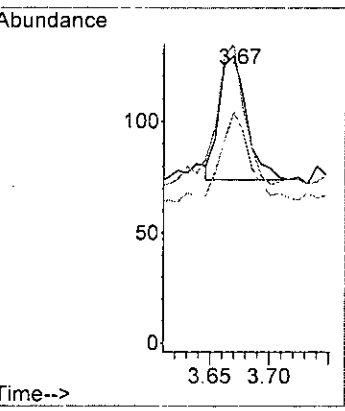
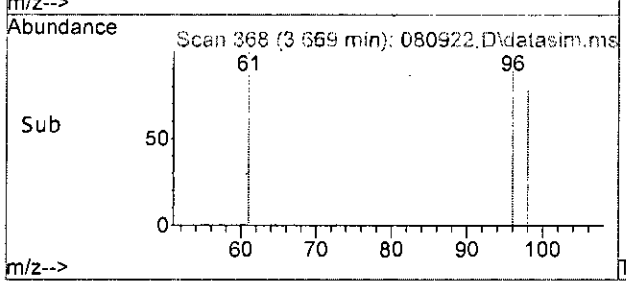
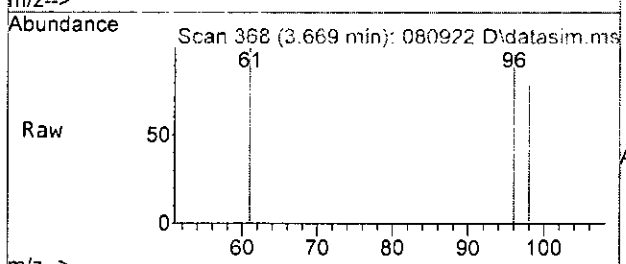
Tgt Ion: 77 Resp: 303  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 0.0 57.2





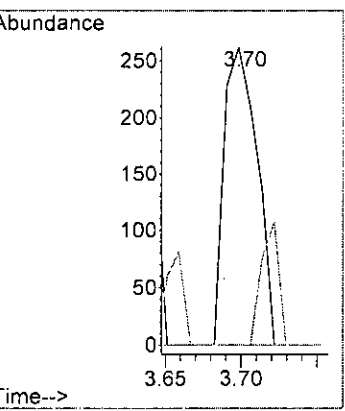
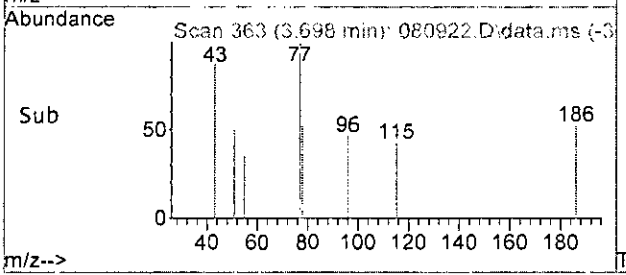
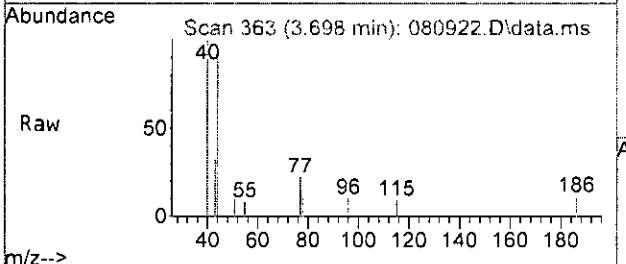
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.012 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.008 min  
 Lab File: 080922.D  
 Acq: 09 Aug 2023 02:29 pm

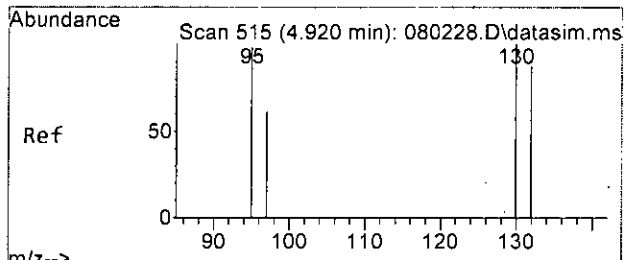
Tgt Ion	Resp	Lower	Upper
96	100		
61	109.1	80.3	140.3
98	69.1	34.4	94.4



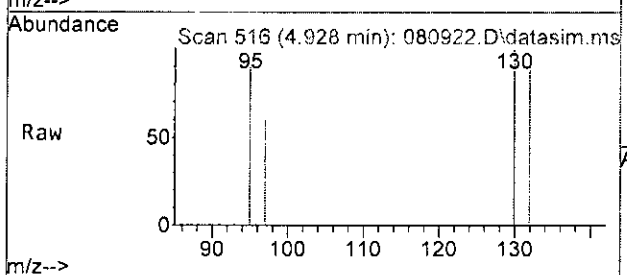
#24  
 2-Butanone (MEK)  
 Concen: 0.105 ppb  
 RT: 3.70 min Scan# 363  
 Delta R.T. 0.008 min  
 Lab File: 080922.D  
 Acq: 09 Aug 2023 02:29 pm

Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	54.2
57	0.0	0.0	27.4



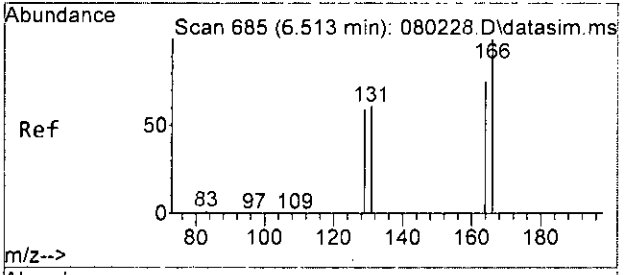
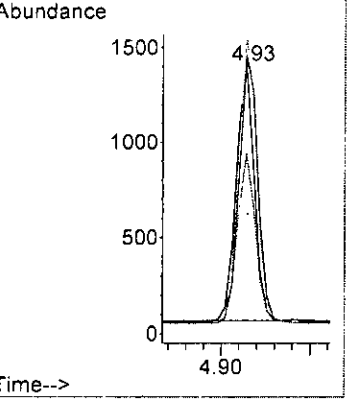
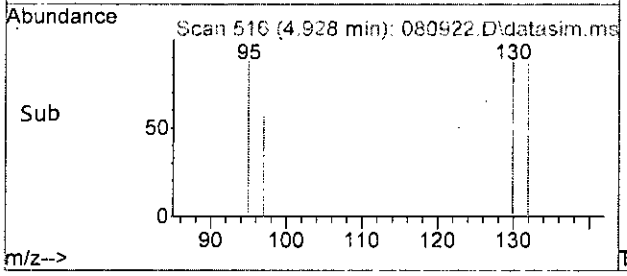


#32  
 Trichloroethene  
 Concen: 0.244 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. 0.008 min  
 Lab File: 080922.D  
 Acq: 09 Aug 2023 02:29 pm

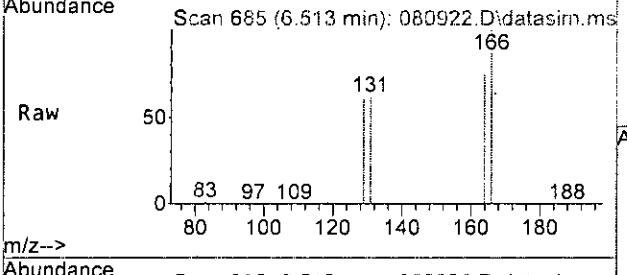


Tgt Ion: 95 Resp: 1868

Ion	Ratio	Lower	Upper
95	100		
97	65.6	31.8	91.8
130	112.4	72.0	132.0
132	104.9	58.7	118.7

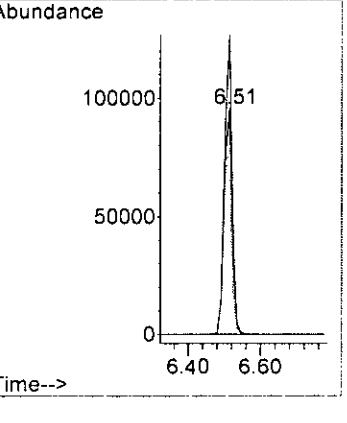
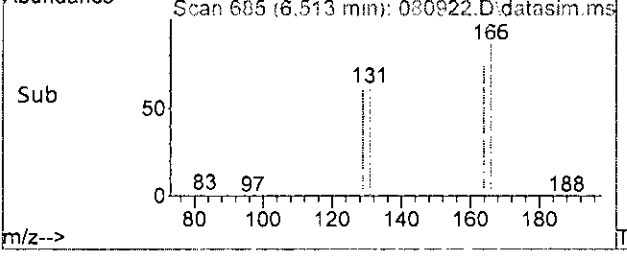


#45  
 Tetrachloroethene  
 Concen: 21.147 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 080922.D  
 Acq: 09 Aug 2023 02:29 pm



Tgt Ion: 164 Resp: 143585

Ion	Ratio	Lower	Upper
164	100		
129	80.9	49.5	109.5
131	82.9	52.2	112.2
166	133.1	104.1	164.1



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080922.D  
 Acq On : 09 Aug 2023 02:29 pm  
 Operator : MD  
 Sample : 308148-05  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:58 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	251658	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	197292	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.47	152	113126	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	71912	10.374	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	103.70%
30) 1,2-Dichloroethane-d4	4.36	102	16995	10.831	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	108.30%
35) Toluene-d8	5.97	98	230942	9.768	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.70%
57) 4-Bromofluorobenzene	8.37	95	85516	10.444	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	104.40%
Target Compounds						
2) Ethanol	1.93	45	557	No Calib		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.22	50	1663	N.D.		
6) Vinyl chloride	1.30	62	78	N.D.		
7) Bromomethane	0.00		0	N.D.		
8) Chloroethane	1.61	64	371	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	2.41	45	1211	No Calib		
11) Acetone	2.26	58	1279	N.D.		
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	3.06	57	183	N.D.		
14) Methylene chloride	2.61	84	3600	N.D.		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16] Methyl t-butyl ether (...)	2.84	73	571	0.037 ppb	#	8
17] trans-1,2-Dichloroethene	2.83	96	62m	Below Cal		
18) Diisopropyl ether (DIPE)	3.24	45	109	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.64	77	303	Below Cal		48
22] cis-1,2-Dichloroethene	3.67	96	89	0.012 ppb		97
23) Chloroform	3.95	83	112	N.D.		
24) 2-Butanone (MEK)	3.70	43	392	0.105 ppb		58
25) t-Amyl methyl ether (T...)	4.46	73	88	N.D.		
26] 1,2-Dichloroethane (EDC)	4.41	62	163	Below Cal		100
27) 1,1,1-Trichloroethane	4.08	97	58	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.39	78	129	Below Cal		75
32] Trichloroethene	4.93	95	1868	0.244 ppb		89
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080922.D  
 Acq On : 09 Aug 2023 02:29 pm  
 Operator : MD  
 Sample : 308148-05  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

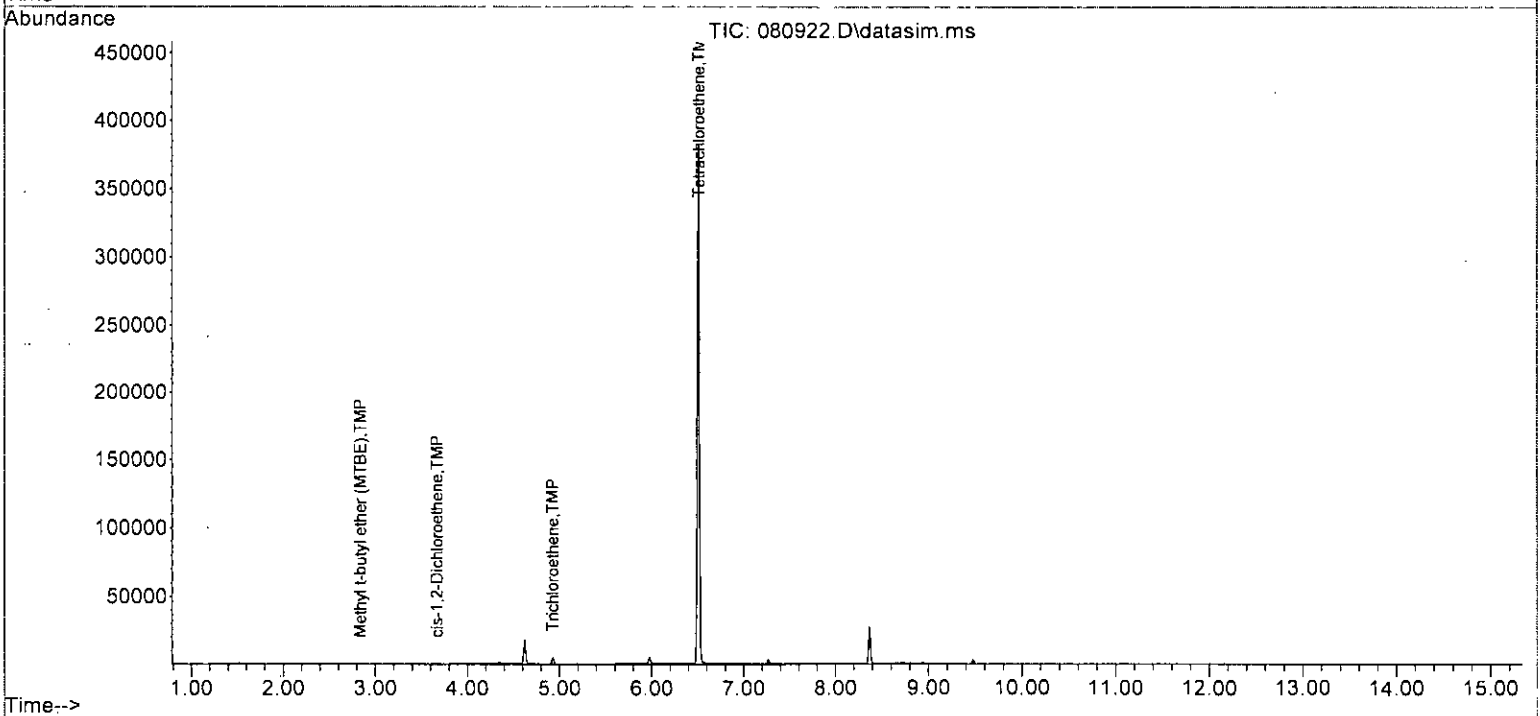
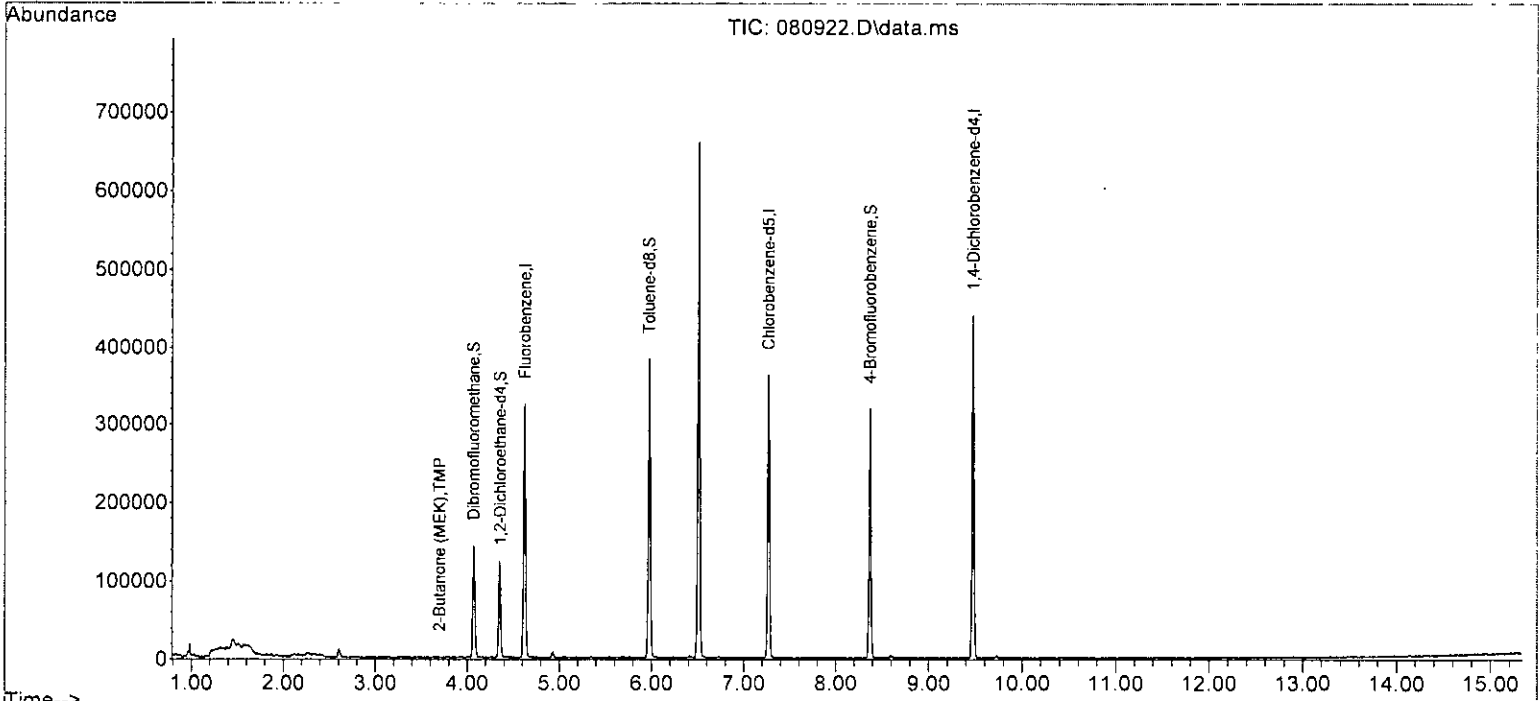
Quant Time: Aug 10 09:04:58 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.03	92	169	Below Cal	91
41) trans-1,3-Dichloropropene	6.38	75	159	N.D.	
42) 1,1,2-Trichloroethane	0.00		0	N.D. d	
43) 2-Hexanone	6.65	43	216	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.51	164	143585	21.147 ppb	99
46) Dibromochloromethane	6.73	129	68	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	7.30	112	74	N.D.	
49] Ethylbenzene	7.40	91	154	Below Cal	97
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.50	106	124	Below Cal	99
52] o-Xylene	7.88	106	53	Below Cal #	79
53) Styrene	7.89	104	186	N.D.	
54) Isopropylbenzene	8.21	105	101	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	8.61	91	286	N.D.	
59) Bromobenzene	8.37	156	73	N.D.	
60) 1,3,5-Trimethylbenzene	8.76	105	89	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	8.60	75	57	N.D.	
63) 2-Chlorotoluene	8.70	91	115	N.D.	
64) 4-Chlorotoluene	8.80	91	179	N.D.	
65) tert-Butylbenzene	9.10	119	102	N.D.	
66) 1,2,4-Trimethylbenzene	9.14	105	218	N.D.	
67) sec-Butylbenzene	9.30	105	227	N.D.	
68) p-Isopropyltoluene	9.46	119	286	N.D.	
69) 1,3-Dichlorobenzene	9.50	146	291	N.D.	
70) 1,4-Dichlorobenzene	9.50	146	291	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	11.43	180	194	N.D.	
74) Hexachlorobutadiene	11.57	225	61	N.D.	
75) Naphthalene	11.68	128	472	N.D.	
76) 1,2,3-Trichlorobenzene	11.91	180	295	N.D.	

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

Data Path : Y:\Proc\_GCMS11\08-09-23\  
Data File : 080922.D  
Acq On : 09 Aug 2023 02:29 pm  
Operator : MD  
Sample : 308148-05  
Misc : water  
ALS Vial : 13 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Aug 10 09:04:58 2023  
Quant Method : Y:\Methods\Inst11\080223vms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Aug 03 10:33:12 2023  
Response via : Initial Calibration  
DataAcq Meth:VM042423.M





Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080919.D  
 Acq On : 09 Aug 2023 01:21 pm  
 Operator : MD  
 Sample : 308148-06  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

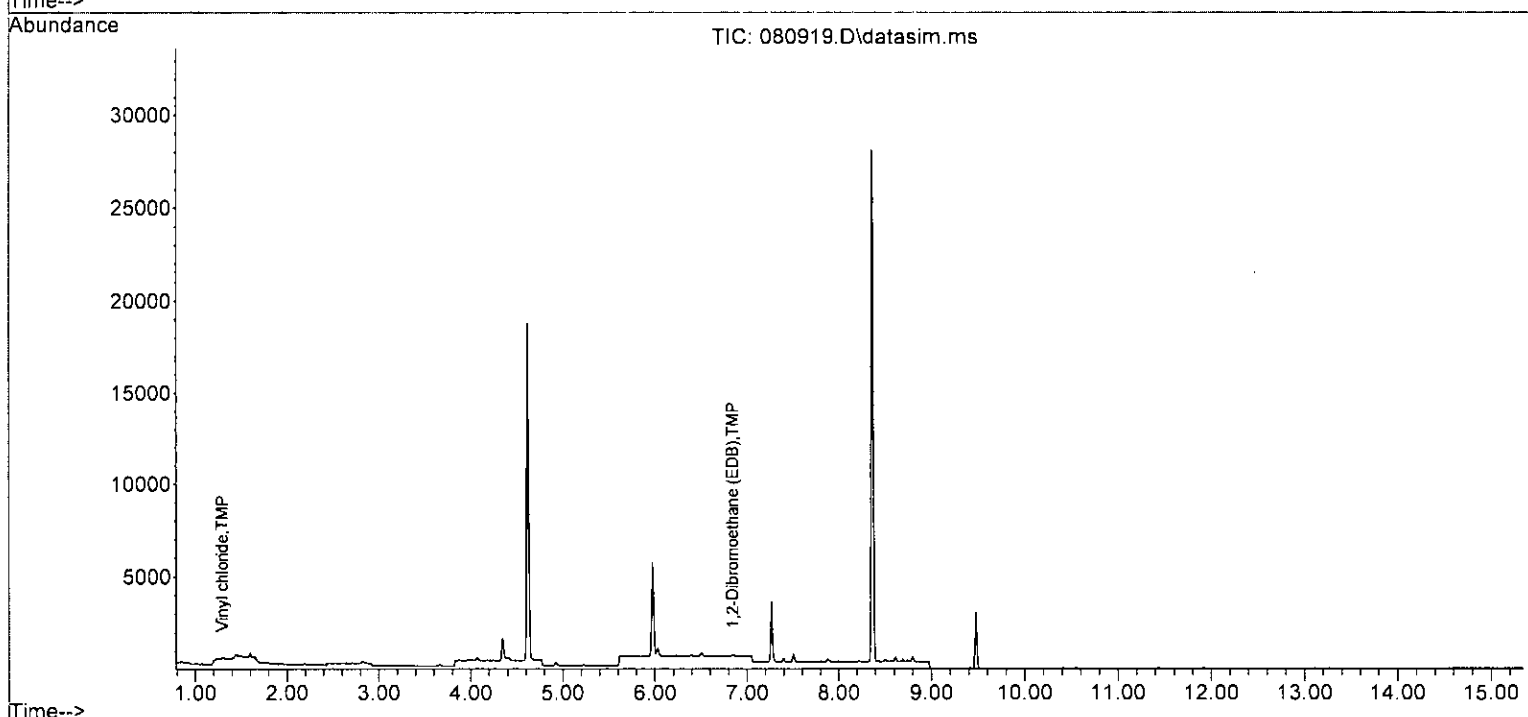
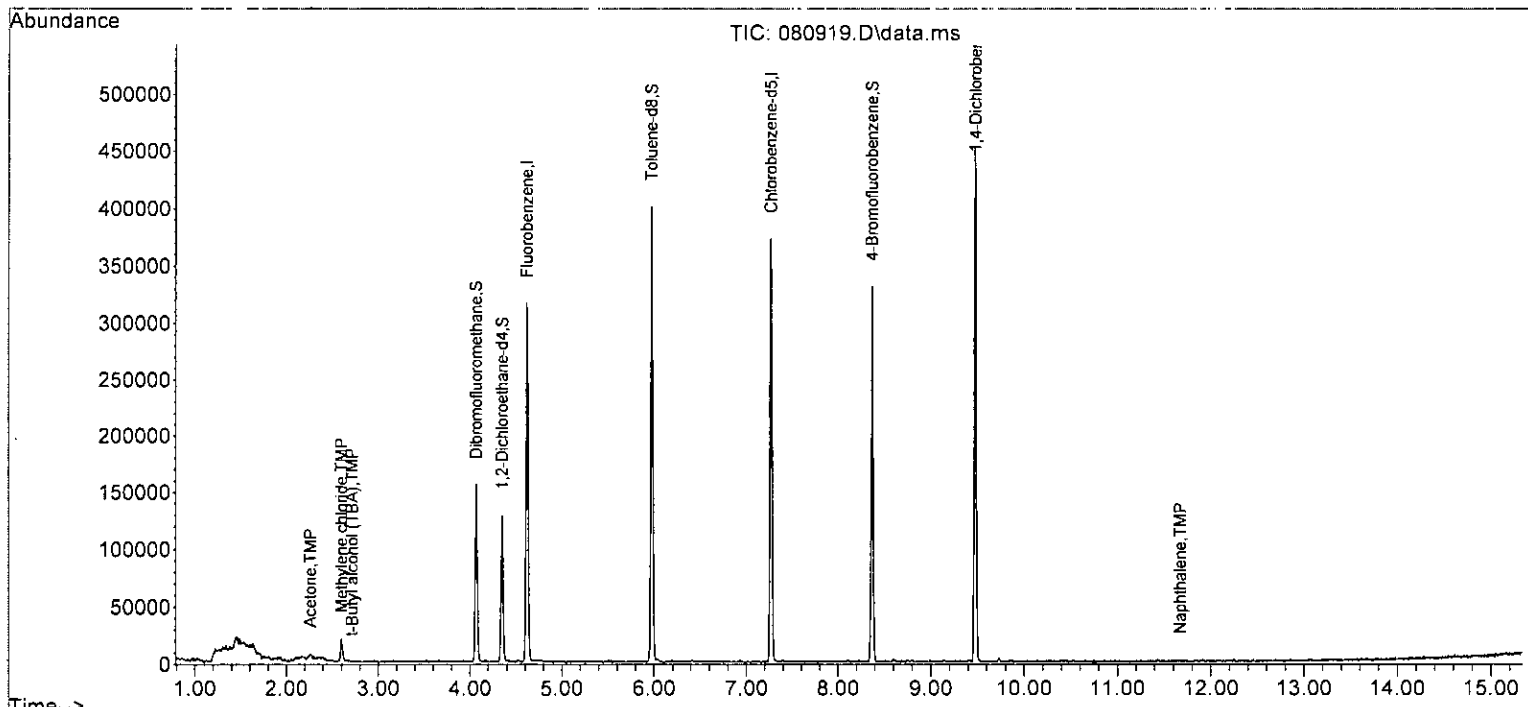
Quant Time: Aug 10 09:04:46 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

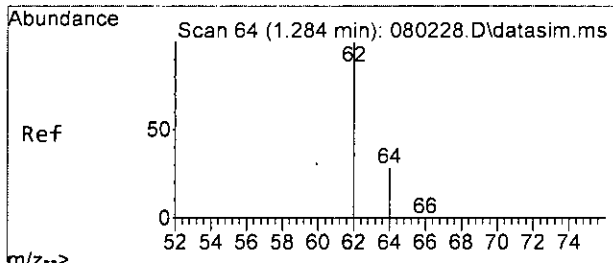
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	251362	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	205360	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	116351	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	69224	9.998	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.00%	
30) 1,2-Dichloroethane-d4	4.35	102	16325	10.417	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	104.20%	
35) Toluene-d8	5.97	98	239303	10.133	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	101.30%	
57) 4-Bromofluorobenzene	8.37	95	89023	10.571	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	105.70%	
Target Compounds						
						Qvalue
6] Vinyl chloride	1.29	62	170	0.011	ppb	71
11) Acetone	2.26	58	1812	1.350	ppb #	83
14) Methylene chloride	2.60	84	7462	0.679	ppb	88
15) t-Butyl alcohol (TBA)	2.72	59	119	0.192	ppb	58
17] trans-1,2-Dichloroethene	2.83	96	70	Below Cal		95
21) 2,2-Dichloropropane	3.62	77	175	Below Cal		48
26] 1,2-Dichloroethane (EDC)	4.41	62	187	Below Cal		95
31] Benzene	4.38	78	137	Below Cal		69
40] Toluene	6.03	92	212	Below Cal		97
45] Tetrachloroethene	6.51	164	75	Below Cal		95
47] 1,2-Dibromoethane (EDB)	6.84	107	73	0.002	ppb	97
49] Ethylbenzene	7.39	91	242	Below Cal		99
51] m,p-Xylene	7.50	106	189	Below Cal		99
52] o-Xylene	7.87	106	66	Below Cal		95
75) Naphthalene	11.67	128	647	0.024	ppb	94
-----						

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

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080919.D  
 Acq On : 09 Aug 2023 01:21 pm  
 Operator : MD  
 Sample : 308148-06  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

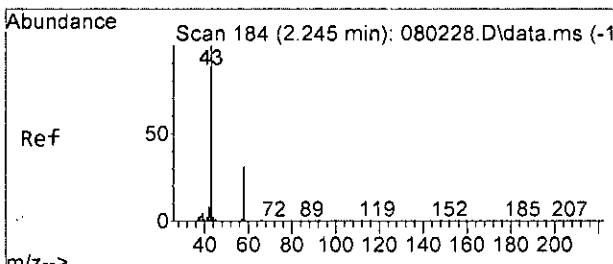
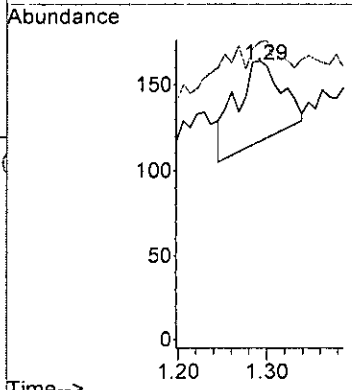
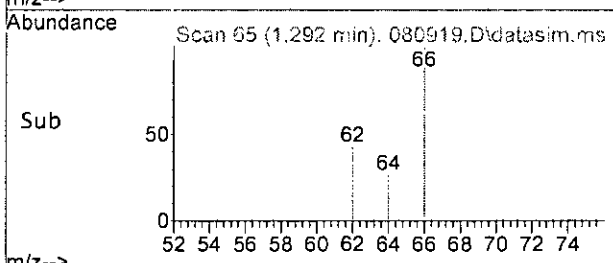
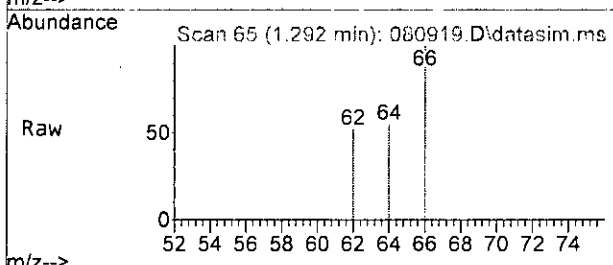
Quant Time: Aug 10 09:04:46 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M





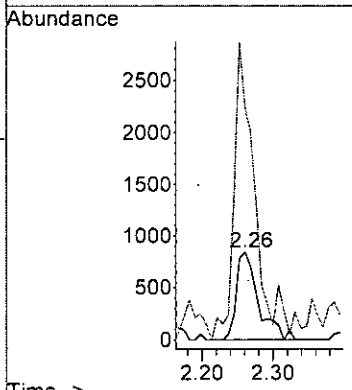
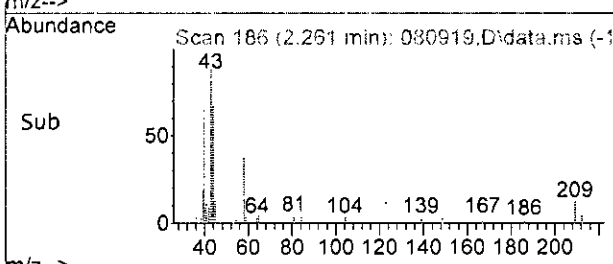
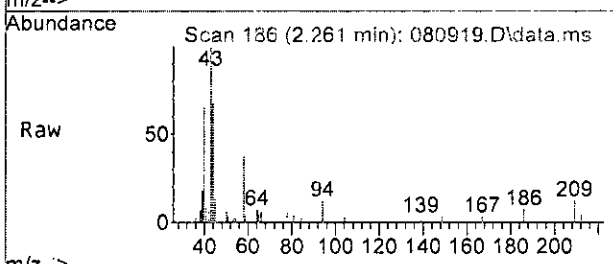
#6  
 Vinyl chloride  
 Concen: 0.011 ppb  
 RT: 1.29 min Scan# 65  
 Delta R.T. 0.008 min  
 Lab File: 080919.D  
 Acq: 09 Aug 2023 01:21 pm

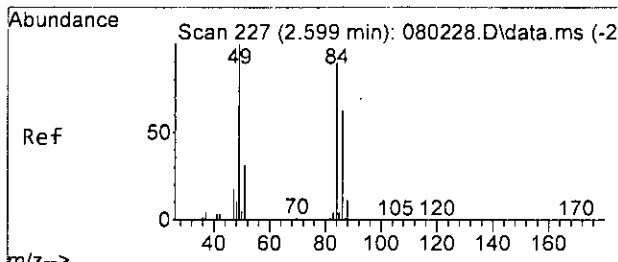
Tgt Ion: 62 Resp: 170  
 Ion Ratio Lower Upper  
 62 100  
 64 42.9 0.0 57.7



#11  
 Acetone  
 Concen: 1.350 ppb  
 RT: 2.26 min Scan# 186  
 Delta R.T. 0.016 min  
 Lab File: 080919.D  
 Acq: 09 Aug 2023 01:21 pm

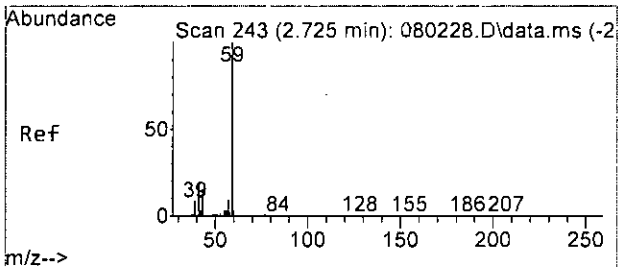
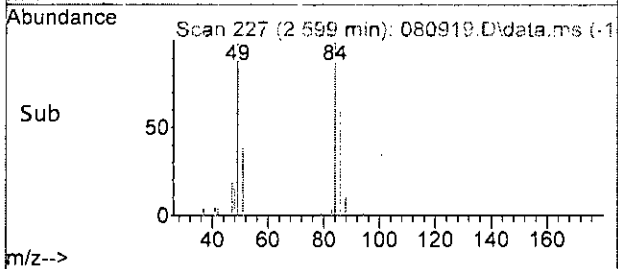
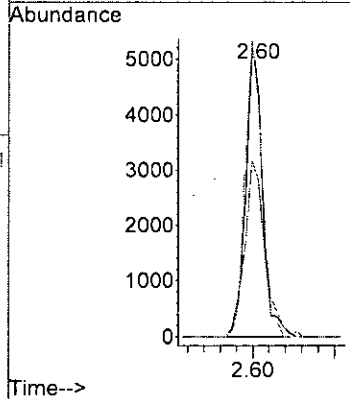
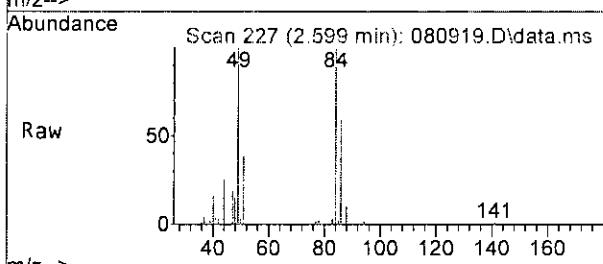
Tgt Ion: 58 Resp: 1812  
 Ion Ratio Lower Upper  
 58 100  
 43 297.1 303.0 363.0#





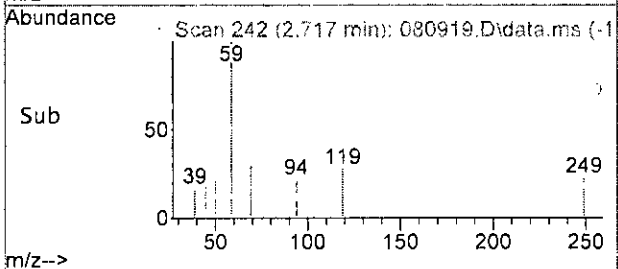
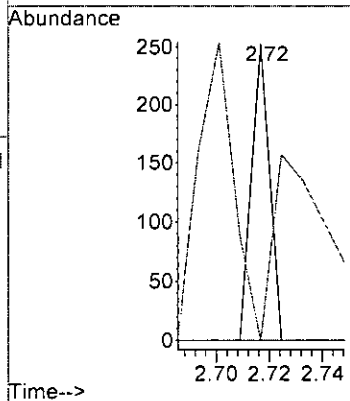
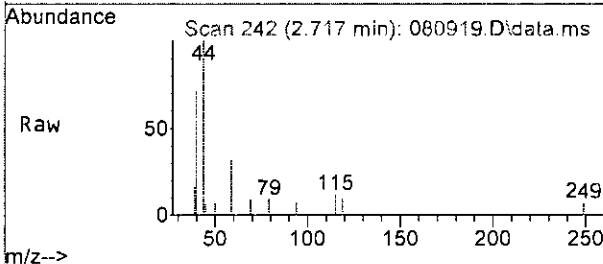
#14  
 Methylene chloride  
 Concen: 0.679 ppb  
 RT: 2.60 min Scan# 227  
 Delta R.T. -0.000 min  
 Lab File: 080919.D  
 Acq: 09 Aug 2023 01:21 pm

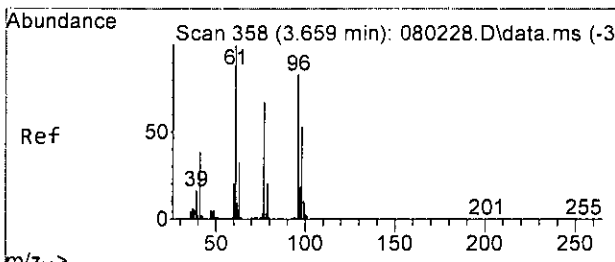
Tgt Ion	Resp	Lower	Upper
84	7462		
84	100		
86	59.8	40.3	100.3
49	100.6	82.6	142.6



#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.192 ppb  
 RT: 2.72 min Scan# 242  
 Delta R.T. -0.008 min  
 Lab File: 080919.D  
 Acq: 09 Aug 2023 01:21 pm

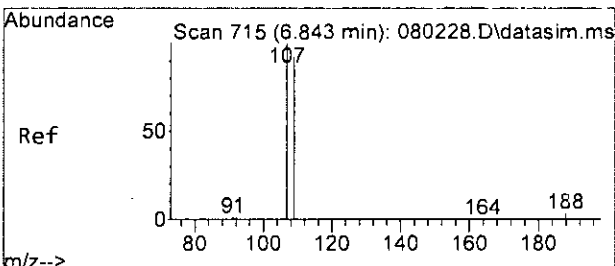
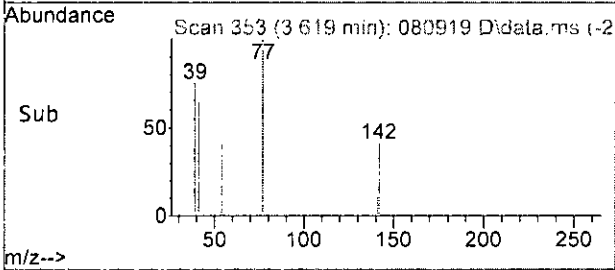
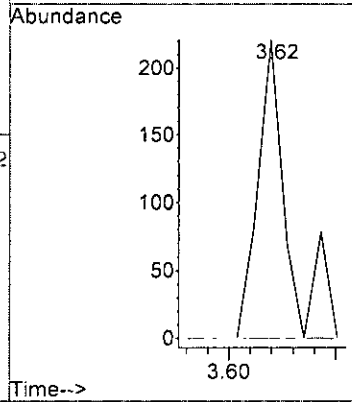
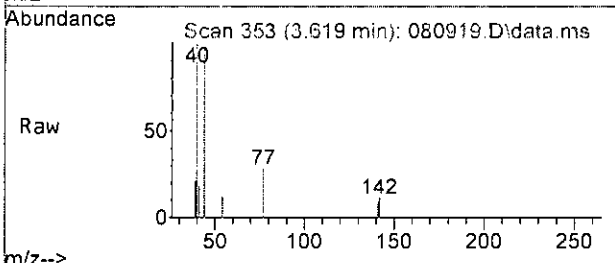
Tgt Ion	Resp	Lower	Upper
59	119		
59	100		
41	0.0	0.0	49.2





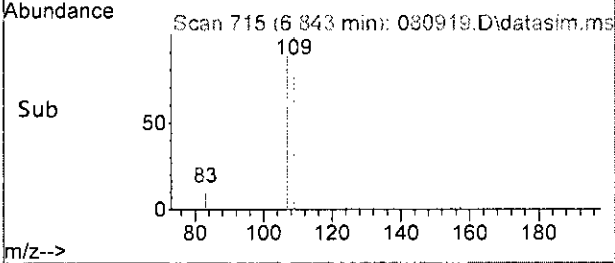
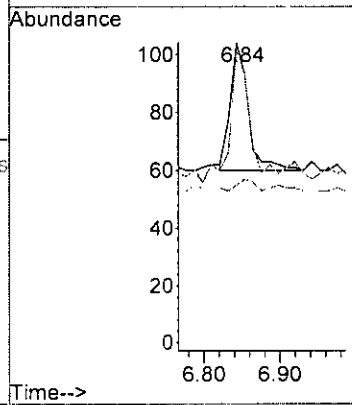
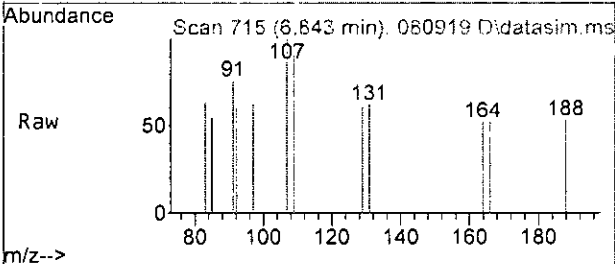
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.62 min Scan# 353  
 Delta R.T. -0.039 min  
 Lab File: 080919.D  
 Acq: 09 Aug 2023 01:21 pm

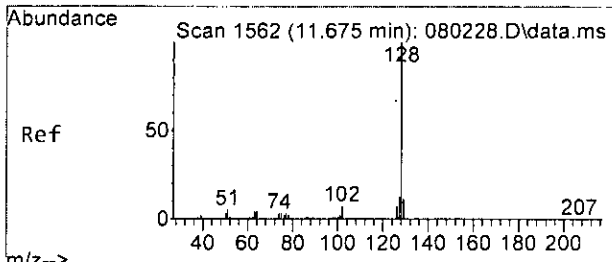
Tgt Ion: 77 Resp: 175  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 0.0 57.2



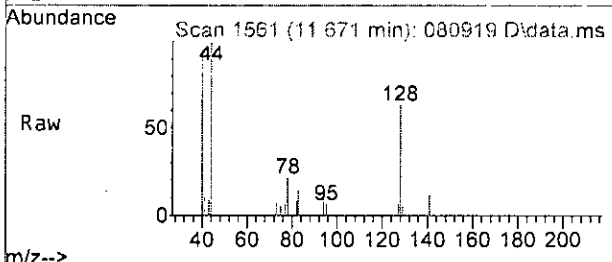
#47  
 1,2-Dibromoethane (EDB)  
 Concen: 0.002 ppb  
 RT: 6.84 min Scan# 715  
 Delta R.T. -0.000 min  
 Lab File: 080919.D  
 Acq: 09 Aug 2023 01:21 pm

Tgt Ion: 107 Resp: 73  
 Ion Ratio Lower Upper  
 107 100  
 109 95.5 62.3 122.3  
 188 4.5 0.0 33.0



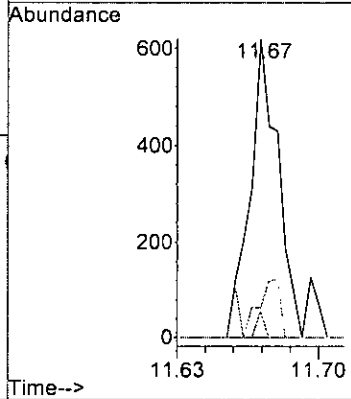
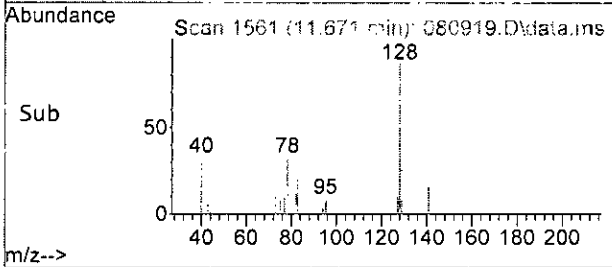


#75  
 Naphthalene  
 Concen: 0.024 ppb  
 RT: 11.67 min Scan# 1561  
 Delta R.T. -0.004 min  
 Lab File: 080919.D  
 Acq: 09 Aug 2023 01:21 pm



Tgt Ion:128 Resp: 647

Ion	Ratio	Lower	Upper
128	100		
129	8.9	0.0	41.0
127	10.2	0.0	42.4



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080919.D  
 Acq On : 09 Aug 2023 01:21 pm  
 Operator : MD  
 Sample : 308148-06  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:46 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.62	96	251362	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	205360	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	116351	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	69224	9.998	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	100.00%	
30) 1,2-Dichloroethane-d4	4.35	102	16325	10.417	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	104.20%	
35) Toluene-d8	5.97	98	239303	10.133	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	101.30%	
57) 4-Bromofluorobenzene	8.37	95	89023	10.571	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	105.70%	
Target Compounds							
2) Ethanol	1.93	45	1150	No Calib	#		
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.22	50	2544	N.D.			
6] Vinyl chloride	1.29	62	170	0.011	ppb	71	
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	1.60	64	573	N.D.			
9) Trichlorofluoromethane	1.75	101	54	N.D.			
10) 2-Propanol	2.39	45	991	No Calib			
11) Acetone	2.26	58	1812	1.350	ppb	#	83
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	3.04	57	236	N.D.			
14) Methylene chloride	2.60	84	7462	0.679	ppb		88
15) t-Butyl alcohol (TBA)	2.72	59	119	0.192	ppb		58
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.83	96	70	Below Cal			95
18) Diisopropyl ether (DIPE)	3.20	45	63	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.62	77	175	Below Cal			48
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	3.94	83	128	N.D.			
24) 2-Butanone (MEK)	3.66	43	371	N.D.			
25) t-Amyl methyl ether (T...)	4.45	73	114	N.D.			
26] 1,2-Dichloroethane (EDC)	4.41	62	187	Below Cal			95
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	4.15	75	66	N.D.			
29) Carbon tetrachloride	4.12	117	66	N.D.			
31] Benzene	4.38	78	137	Below Cal			69
32) Trichloroethene	4.93	95	59	N.D.			
33) 1,2-Dichloropropane	5.11	63	80	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080919.D  
 Acq On : 09 Aug 2023 01:21 pm  
 Operator : MD  
 Sample : 308148-06  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:46 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M

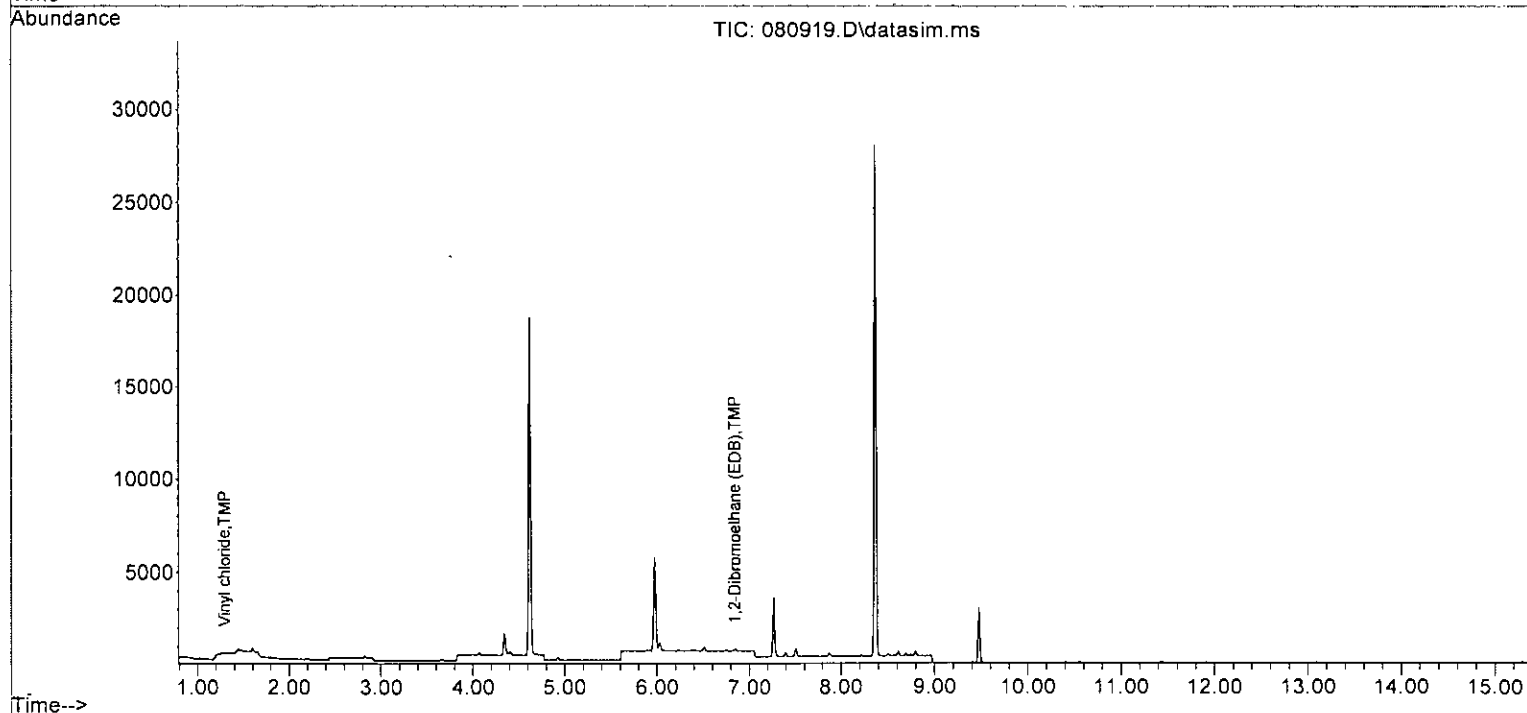
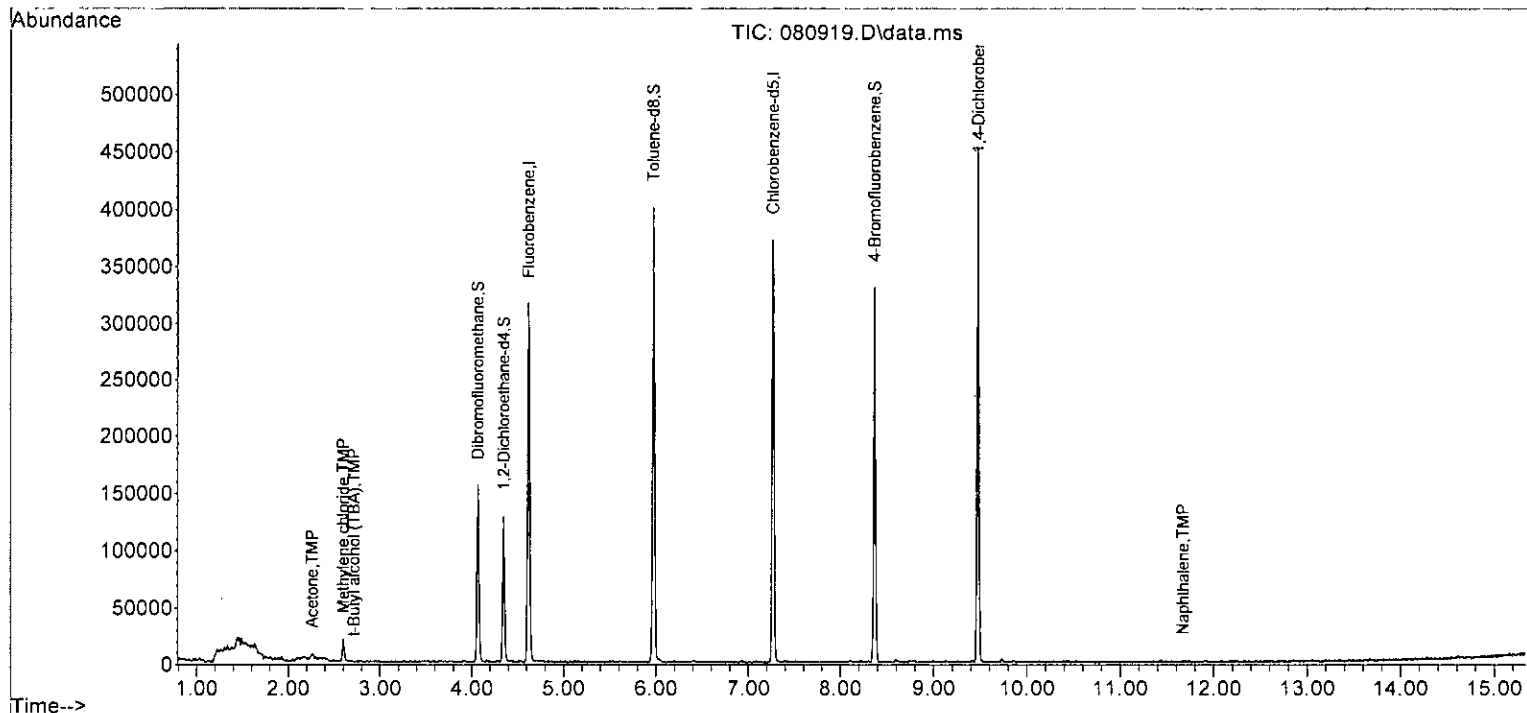
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	5.72	75	67		N.D.	
40] Toluene	6.03	92	212	Below Cal		97
41) trans-1,3-Dichloropropene	6.28	75	199		N.D.	
42) 1,1,2-Trichloroethane	6.40	83	79		N.D.	
43) 2-Hexanone	6.62	43	120		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	75	Below Cal		95
46) Dibromochloromethane	6.74	129	71		N.D.	
47] 1,2-Dibromoethane (EDB)	6.84	107	73	0.002 ppb		97
48) Chlorobenzene	7.29	112	69		N.D.	
49] Ethylbenzene	7.39	91	242	Below Cal		99
50) 1,1,1,2-Tetrachloroethane	7.44	131	81		N.D.	
51] m,p-Xylene	7.50	106	189	Below Cal		99
52] o-Xylene	7.87	106	66	Below Cal		95
53) Styrene	7.89	104	183		N.D.	
54) Isopropylbenzene	8.23	105	265		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.62	91	632		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.79	105	381		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.80	91	396		N.D.	
64) 4-Chlorotoluene	8.80	91	396		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.16	105	450		N.D.	
67) sec-Butylbenzene	9.31	105	395		N.D.	
68) p-Isopropyltoluene	9.46	119	287		N.D.	
69) 1,3-Dichlorobenzene	9.41	146	419		N.D.	
70) 1,4-Dichlorobenzene	9.50	146	516		N.D.	
71) 1,2-Dichlorobenzene	9.87	146	246		N.D.	
72) 1,2-Dibromo-3-chloropr...	10.78	75	54		N.D.	
73) 1,2,4-Trichlorobenzene	11.44	180	510		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.67	128	647	0.024 ppb		94
76) 1,2,3-Trichlorobenzene	11.92	180	253		N.D.	

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



Data Path : Y:\Proc\_GCMS11\08-09-23\  
 Data File : 080919.D  
 Acq On : 09 Aug 2023 01:21 pm  
 Operator : MD  
 Sample : 308148-06  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Aug 10 09:04:46 2023  
 Quant Method : Y:\Methods\Inst11\080223vms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Aug 03 10:33:12 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM042423.M



F&B Project 308175

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

308175

SAMPLE CHAIN OF CUSTODY

08/09/23

Page # 1 of 2

Report To Jennifer Marsalla

Company Anchor OEA

Address 1201 3rd Ave # 21000

City, State, ZIP Seattle WA 98101

Phone 206-287-9130 Email LABDATA@ANCHOROEA.COM

SAMPLERS (signature) JBS

PROJECT NAME Carson Cleaners

PO # 212280-01.01

REMARKS see QRAPP

INVOICE TO LABDATA ATTACH @ANCHOROEA.COM

Project specific RIs? - Yes / No

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
MW20-GW-20230809	01 A-C	08/09	08:15	GW	3									"MW-20"
MW22-GW-20230809	02	08/09	12:00	GW	3									"MW-22"
MW28-GW-20230809	03	08/09	09:20	GW	3									"MW-28"
CC-MW20-GW-20230809	04	08/09	10:30	GW	3									"CC MW-28"
BP-MW28-GW-20230809	05 A-F	08/09	13:05	GW	6									MS/MSD
RR-MW21-GW-20230809	06 A-F	08/09	12:10	GW	3									
MW23-GW-20230809	07	08/09	10:45	GW	3									"MW-23"
MW27-GW-20230809	08	08/09	09:45	GW	3									"MW-27"
MW25-GW-20230809	09	08/09	08:50	GW	3									"MW-25"
MW18-GW-20230809	10	08/09	08:00	GW	3									"MW-18"

Friedman & Bruya, Inc.  
Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: JBS		Stephen Smith		Anchor OEA		8-9-23	1648
Received by: HONGSE		HONGSE		FBI		8/9/23	16:48
Relinquished by:							
Received by:				Samples received at			PC

(2)

308175

Report To Jennifer Morales

Company ANCHOR DGA

Address 101 3rd Ave # 2000

City, State, ZIP Seattle WA 98101

Phone 206-451-9130 Email LABDATA@ANCHOR.DGA.COM

SAMPLE CHAIN OF CUSTODY

08/09/23

Page # 2 of 2

SAMPLERS (signature) [Signature]

PROJECT NAME

Carson Cleaners

PO #

21250-01,01

REMARKS

See SQAPP

INVOICE TO

LABDATA@ANCHOR.DGA.COM

Project specific RIS? - Yes / No

ANCHOR.DGA.COM

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
CC-MUJ-2S-6W-20230809	-11A-C	08/09	1430	GW	3					X					
BP-MUJ-29-6W-20230809	-12 <sup>AC</sup>	08/09	1550	GW	3					X					
CC-MUJ-2D-6W-20230809	-13 <sup>AC</sup>	08/09	1600	GW	3					X					
TB-20230807	-14 <sup>AB</sup>	08/07	07:00	water	2					X					TRIP GRANULE

Friedman & Bruya, Inc.  
Ph. (206) 285-8282

Relinquished by: [Signature]	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: [Signature]		Stephen Spear	ANCHOR DGA	8-9-23	16:48
Relinquished by:		HONG WANG	TRSI	8/9/23	16:48
Received by:					
Samples received at 7 °C					

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 308175 CLIENT ANCHOR QEA INITIALS/ DATE: 8/9/23 HR

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

Cooler/Sample temperature 3 °C Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? [X] YES [ ] NO

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

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

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

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

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

Sample ID's [X] Yes [ ] No # of Containers [X] Yes [ ] No Date Sampled [X] Yes [ ] No Relinquished [X] Yes [ ] No Time Sampled [X] Yes [ ] No Requested analysis [X] Yes [ ] No

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

Were appropriate sample containers used? [X] YES [ ] NO [ ] Unknown

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

Are samples requiring no headspace, headspace free? [ ] NA [X] YES [ ] NO

Air Samples: Were any additional canisters/tubes received? [X] NA [ ] YES [ ] NO

If Yes: Number of unused TO15 canisters \_\_\_\_\_ Number of unused TO17 tubes \_\_\_\_\_

Explain "no" items from above (use the back if needed)

# Laboratory Worksheets

# VOC EXTRACTION WORKSHEET (WATER)

(1042)

HT \_\_\_\_\_

Project #: 308175  
 Client: Anchor  
 QC Batch ID: 03-1819  
 Samples checked against COC 4

Date Received: 08/09/23  
 Date Extracted: 08.11.23  
 Date Analyzed: \_\_\_\_\_  
 GCMS  4  11  13, Seq. Date 1

<b>Analysis Method:</b> <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8260 SIM <input type="checkbox"/> 524.2 SIM <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> 8260 Normal List <input checked="" type="checkbox"/> <del>eVOCs</del> <input checked="" type="checkbox"/> PCE/Daughters <input type="checkbox"/> BTEX <input type="checkbox"/> BTEX+N <input type="checkbox"/> Other _____	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/L (ppb) <input type="checkbox"/> Other _____	<b>Extraction Method:</b> <input checked="" type="checkbox"/> 5030
Due Date: <u>08/16</u>		<input checked="" type="checkbox"/> Historical Data Attached <span style="margin-left: 20px;">See RIs below</span>	
		<input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Need EDF	

Sample ID	pH Lot: 10D3112	Sample Volume (mL)	Final Volume (mL)	Dilutions		Dilution Factor	Foamy Sample	Observations
				Amt. Extract	Amt. Solvent mL			
01	A	CE				FS		
02				4.3 mL		1/10		
03				4.3 mL		1/10		
04						FS		
05								MS/MSD
06								
07				4.3 mL		1/10		
08						FS		
09				4.3 mL		1/10		
10						FS		
11								
12								
Initials								

	✓	Volume	Conc. (µpm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	DI Water			
Other							
Internal Standard(s)/ Surrogate(s)		100 µl	250	Surrogate mix			
	<input checked="" type="checkbox"/>	10 ppm Surr/IS Mix spiked at instr. to yield 10 ppb			68-198	W	8/11
	<input checked="" type="checkbox"/>	25 ppm Surr/IS Mix spiked at instr. to yield 5 ppb					

Project Leader Initials: MK      NOTES: \_\_\_\_\_

Vinyl chloride	<0.02	
trans-1,2-Dichloroethene	<0.05	
cis-1,2-Dichloroethene	<0.05	
Trichloroethene	<0.05	
Tetrachloroethene	<0.05	µg/L

Tier IV

Calculated by W 8/14/23      Reviewed by YA 08/14/23 draft  
W 8/15/23 final      YA 08/15/23 final



VOC EXTRACTION WORKSHEET (WATER)

(202)

Project #: 308175  
 Client: Anchor  
 QC Batch ID: 03-1814  
 Samples checked against COC: m

HT \_\_\_\_\_  
 Date Received: 08/09/23  
 Date Extracted: 08/11/23  
 Date Analyzed: \_\_\_\_\_  
 GCMS  4  11  13, Seq. Date 1

<b>Analysis Method:</b> <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8260 SIM <input type="checkbox"/> 524.2 SIM <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> 8260 Normal List <input checked="" type="checkbox"/> <del>cVOCs</del> <input checked="" type="checkbox"/> PCE/Daughters <input type="checkbox"/> BTEX <input type="checkbox"/> BTEX+N <input type="checkbox"/> Other _____	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/L (ppb) <input type="checkbox"/> Other _____	<b>Extraction Method:</b> <input checked="" type="checkbox"/> 5030 <input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Need EDF
Due Date: <u>08/16</u>	<input checked="" type="checkbox"/> Historical Data Attached		

Sample ID	pH Lot: 10D3112	Sample Volume (mL)	Final Volume (mL)	Dilutions		Dilution Factor	Foamy Sample	Observations
				Amt. Extract	Amt. Solvent mL			
13	4	421				FS		
14	1							
<del>m 8/11</del>								
-07	1					1/10		
-08	1					FS		

Initials \_\_\_\_\_

	<input checked="" type="checkbox"/>	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	DI Water			
Other							
Internal Standard(s)/ Surrogate(s)		100 µl	250	Surrogate mix			
	<input checked="" type="checkbox"/>	10 ppm Surr/IS Mix spiked at ins.r. to yield 10 ppb			68-198	m	8/11
	<input checked="" type="checkbox"/>	25 ppm Surr/IS Mix spiked at ins.r. to yield 5 ppb					

Project Leader Initials: m  
 NOTES: \_\_\_\_\_  
 Initials: \_\_\_\_\_

Calculated by m 8/14/23 Reviewed by YA 08/14/23 draft  
m 8/15/23 hinal YA 02/15/23 final  
 FORMS\LAB\EXTRACT\8260 Rev. 04/19/23

# BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 08.11.29 5:00 Technician: W/MD

QA Batch: **03-1819**

pH Lot:

- |  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>Matrix</b><br><input type="checkbox"/> Soil<br><input checked="" type="checkbox"/> Water<br><input type="checkbox"/> Product/Wipe<br><input type="checkbox"/> Air<br><input type="checkbox"/> Other _____ | <b>Solvent</b><br><input type="checkbox"/> Methylene Chloride<br><input type="checkbox"/> Acetone<br><input type="checkbox"/> Methanol<br><input type="checkbox"/> Hexane<br><input type="checkbox"/> DI Water<br><input type="checkbox"/> Other _____ | <b>Solvent</b><br>Solvent _____<br>Lot # _____ | <b>Analysis</b><br><input type="checkbox"/> Diesel <input checked="" type="checkbox"/> 8260<br><input type="checkbox"/> Gas/BTEX <input type="checkbox"/> 8270<br><input type="checkbox"/> HCID <input type="checkbox"/> Phenols<br><input type="checkbox"/> TO15 / APH <input type="checkbox"/> TO17<br><input type="checkbox"/> PCB<br><input type="checkbox"/> Pest / Tox<br><input type="checkbox"/> 1,4-Dioxane<br><input type="checkbox"/> Other _____ | <b>Clean Up:</b><br><input type="checkbox"/> Na2SO3<br><input type="checkbox"/> Silica<br><input type="checkbox"/> Other _____ | <input type="checkbox"/> TBA<br><input type="checkbox"/> H2SO4 |
|--|--|--|--|--|--|

Sample ID	pH Waters only	Sample Weight/ Volume	Extraction Solvent Volume	Final Volume	Dilutions		Clean Up (Circle)			Observations
					Amt. Extract	Amt. Solvent	Silica	Filter	TBA	
LCS		43		43						
LCS D										
MS										308175-05
MS D										
MS										

Initials

### Samples in Batch

308175-01		-05		-09		-13		-2
	-02		-06		-10		-14	308172-19
	-03		-07		-11	308171-01		308184-06
	-04		-08		-12	308114-01		

Date/Initials

Matrix Spikes:  
8.6  $\mu$ L of 50 ppm of 8260 ACS/MS  
 Amount Concentration Analytes and Solvent

Lot # 70.18 W 8/11

Matrix Spikes:  
 Amount  $\mu$ L of \_\_\_\_\_ ppm of \_\_\_\_\_  
 Concentration Analytes and Solvent

Lot # \_\_\_\_\_

Matrix Spikes:  
 Amount  $\mu$ L of \_\_\_\_\_ ppm of \_\_\_\_\_  
 Concentration Analytes and Solvent

Lot # \_\_\_\_\_

Surrogates:  
5  $\mu$ L of 10 ppm of 8260 IS/BU  
 Amount Concentration Analytes and Solvent

Lot # 68.199

Internal Standards:  
 Amount  $\mu$ L of \_\_\_\_\_ ppm of \_\_\_\_\_  
 Concentration Analytes and Solvent

Lot # \_\_\_\_\_

Notes:

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

**Reported MDL Data and Calculations**

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

Analysis: 8260 Standard(s) spiked: 68-53, 68-93  
 Matrix: Water Volume spiked: 17.2 uL (C), 43 uL (C), 8.6 uL (B), 4.3 uL (A)  
 Instrument ID: GCMS #13 Date(s) Extracted: 01/04/23, 01/05/23, 01/18/23, 01/19/23, 01/25/23  
 Reporting Units: ug/L Date(s) Analyzed: 01/04/23, 01/05/23, 01/18/23, 01/19/23, 01/25/23  
 Date Calculated: 01/05/23, 01/06/23, 01/19/23, 01/20/23, 01/26/23  
 Calculation Analyst: LM

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.288	0.575	1.438	0.096	0.227	0.200	113
Chloromethane	1.055	2.110	5.274	0.352	1.856	2.000	93
Vinyl chloride	0.012	0.024	0.060	0.004	0.024	0.020	118
Bromomethane	2.087	4.175	10.437	0.696	2.166	2.000	108
Chloroethane	0.050	0.100	0.250	0.017	0.201	0.200	100
Trichlorofluoromethane	0.191	0.382	0.955	0.064	0.219	0.200	109
2-Propanol							
Acetone	2.866	5.731	14.328	0.956	7.504	10.000	75
1,1-Dichloroethene	0.021	0.042	0.106	0.007	0.049	0.050	97
Hexane	0.166	0.332	0.829	0.055	0.216	0.200	108
Methylene chloride	0.823	1.646	4.115	0.275	2.641	2.000	132
t-Butyl alcohol (TBA)	4.474	8.949	22.371	1.492	8.588	10.000	86
Methyl t-butyl ether (MTBE)	0.014	0.029	0.072	0.005	0.047	0.050	94
trans-1,2-Dichloroethene	0.016	0.031	0.078	0.005	0.053	0.050	105
Diisopropyl ether (DIPE)	0.096	0.193	0.482	0.032	0.207	0.200	103
1,1-Dichloroethane	0.017	0.034	0.084	0.006	0.052	0.050	104
Ethyl t-butyl ether (ETBE)	0.176	0.351	0.878	0.059	0.202	0.200	101
2,2-Dichloropropane	0.325	0.651	1.627	0.109	0.104	0.200	52
cis-1,2-Dichloroethene	0.020	0.039	0.099	0.007	0.049	0.050	98
Chloroform	0.182	0.363	0.908	0.061	0.217	0.200	108
2-Butanone (MEK)	1.863	3.727	9.317	0.622	7.630	10.000	76
t-Amyl methyl ether (TAME)	0.115	0.230	0.575	0.038	0.214	0.200	107
1,2-Dichloroethane (EDC)	0.037	0.074	0.185	0.012	0.201	0.200	101
1,1,1-Trichloroethane	0.017	0.035	0.087	0.006	0.050	0.050	100
1,1-Dichloropropene	0.123	0.246	0.616	0.041	0.223	0.200	111
Carbon tetrachloride	0.159	0.317	0.794	0.053	0.203	0.200	101
Benzene	0.019	0.038	0.095	0.006	0.049	0.050	98
Trichloroethene	0.030	0.061	0.152	0.010	0.048	0.050	95
1,2-Dichloropropane	0.236	0.473	1.182	0.079	0.235	0.200	117
Bromodichloromethane	0.200	0.401	1.001	0.067	0.201	0.200	101
Dibromomethane	0.125	0.249	0.623	0.042	0.213	0.200	106
4-Methyl-2-pentanone	3.428	6.855	17.138	1.143	8.612	10.000	86
cis-1,3-Dichloropropene	0.150	0.299	0.748	0.050	0.168	0.200	84
Toluene	0.062	0.123	0.308	0.021	0.054	0.050	107
trans-1,3-Dichloropropene	0.117	0.235	0.587	0.039	0.183	0.200	92
1,1,2-Trichloroethane	0.084	0.168	0.421	0.028	0.223	0.200	112
2-Hexanone	3.665	7.329	18.324	1.222	9.012	10.000	90
1,3-Dichloropropane	0.115	0.230	0.576	0.038	0.239	0.200	119
Tetrachloroethene	0.043	0.086	0.214	0.014	0.046	0.050	92
Dibromochloromethane	0.206	0.413	1.031	0.069	0.210	0.200	105
1,2-Dibromoethane (EDB)	0.004	0.007	0.019	0.001	0.023	0.020	114
Chlorobenzene	0.100	0.200	0.499	0.033	0.219	0.200	109
Ethylbenzene	0.023	0.046	0.116	0.008	0.022	0.020	108
1,1,1,2-Tetrachloroethane	0.157	0.314	0.786	0.052	0.224	0.200	112
m,p-Xylene	0.044	0.087	0.218	0.015	0.043	0.040	108
o-Xylene	0.023	0.047	0.117	0.008	0.019	0.020	94
Styrene	0.171	0.342	0.855	0.057	0.149	0.200	74
Isopropylbenzene	0.032	0.063	0.158	0.011	0.207	0.200	104
Bromoform	0.169	0.338	0.844	0.056	0.213	0.200	107
n-Propylbenzene	0.101	0.203	0.507	0.034	0.217	0.200	109
Bromobenzene	0.195	0.389	0.973	0.065	0.233	0.200	116
1,3,5-Trimethylbenzene	0.044	0.087	0.218	0.015	0.201	0.200	101
1,1,1,2-Tetrachloroethane	0.172	0.344	0.860	0.057	0.260	0.200	130
1,2,3-Trichloropropane	0.010	0.019	0.048	0.003	0.032	0.050	65
2-Chlorotoluene	0.259	0.518	1.294	0.086	0.178	0.200	89
4-Chlorotoluene	0.098	0.196	0.490	0.033	0.219	0.200	109
tert-Butylbenzene	0.055	0.110	0.276	0.018	0.210	0.200	105
1,2,4-Trimethylbenzene	0.084	0.169	0.422	0.028	0.205	0.200	103
sec-Butylbenzene	0.075	0.150	0.376	0.025	0.195	0.200	97
p-Isopropyltoluene	0.068	0.137	0.342	0.023	0.195	0.200	97
1,3-Dichlorobenzene	0.112	0.223	0.558	0.037	0.224	0.200	112
1,4-Dichlorobenzene	0.133	0.265	0.663	0.044	0.236	0.200	118
1,2-Dichlorobenzene	0.123	0.246	0.615	0.041	0.222	0.200	111
1,2-Dibromo-3-chloropropane	0.795	1.591	3.977	0.265	1.799	2.000	90
1,2,4-Trichlorobenzene	0.226	0.452	1.130	0.075	0.224	0.200	112
Hexachlorobutadiene	0.285	0.570	1.426	0.095	0.240	0.200	120
Naphthalene	0.191	0.382	0.956	0.064	0.173	0.200	87
1,2,3-Trichlorobenzene	0.206	0.412	1.030	0.069	0.212	0.200	106

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

Comment:

Operator: MD

AWB7131

Data Path: D:\GCMS13\GCMS13\_Data\07-28-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	072801	VM040623	rinse
2)	Sample	100	072802	VM040623	rinse
3)	Sample	1	072803	VM040623	10 ppb 8260 CCV 69-198N
4)	Sample	2	072804	VM040623	03-1785 lcs
5)	Sample	3	072805	VM040623	03-1785 lcsd
6)	Sample	100	072806	VM040623	rinse
7)	Sample	4	072807	VM040623	03-1785 mb
8)	Sample	5	072808	VM040623	03-1783 mb 1/0.5
9)	Sample	100	072809	VM040623	rinse
10)	Sample	6	072810	VM040623	03-1783 lcs
11)	Sample	100	072811	VM040623	rinse
12)	Sample	7	072812	VM040623	03-1783 mb
13)	Sample	8	072813	VM040623	03-1783 mb 1/0.5 rr
14)	Sample	9	072814	VM040623	307360-03
15)	Sample	10	072815	VM040623	307360-03 ms
16)	Sample	11	072816	VM040623	307360-03 msd
17)	Sample	100	072817	VM040623	rinse
18)	Sample	100	072818	VM040623	rinse
19)	Sample	12	072819	VM040623	307367-01 1/0.5
20)	Sample	13	072820	VM040623	307367-02 1/0.5
21)	Sample	14	072821	VM040623	307367-03 1/0.5
22)	Sample	15	072822	VM040623	307367-04 1/0.5
23)	Sample	16	072823	VM040623	307367-05 1/0.5
24)	Sample	17	072824	VM040623	307367-05 1/0.5 rr
25)	Sample	18	072825	VM040623	307367-06 1/0.5
26)	Sample	19	072826	VM040623	307367-07 1/0.5
27)	Sample	20	072827	VM040623	307367-08 1/0.5
28)	Sample	21	072828	VM040623	307367-09 1/0.5
29)	Sample	100	072829	VM040623	50 ng BFB 69-21a
30)	Sample	100	072830	VM040623	rinse
31)	Sample	100	072831	VM040623	rinse
32)	Sample	100	072832	VM040623	rinse
33)	Sample	100	072833	VM040623	rinse
34)	Sample	100	072834	VM040623	rinse
35)	Sample	100	072835	VM040623	rinse
36)	Sample	22	072836	VM040623	0.01 ppb 8260 ICAL 69-198e
37)	Sample	23	072837	VM040623	0.02 ppb 8260 ICAL 69-198f
38)	Sample	24	072838	VM040623	0.04 ppb 8260 ICAL 69-198g
39)	Sample	25	072839	VM040623	0.1 ppb 8260 ICAL 69-198h
40)	Sample	26	072840	VM040623	0.2 ppb 8260 ICAL 69-198i
41)	Sample	27	072841	VM040623	0.5 ppb 8260 ICAL 69-198j

Sequence.Name: D:\GCMS13\sequence\07-28-23.sequence.xml

Comment:

Operator: MD

Data Path: D:\GCMS13\GCMS13\_Data\07-28-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	28	072842	VM040623	1 ppb	8260	ICAL	69-198k
43)	Sample	29	072843	VM040623	2 ppb	8260	ICAL	69-198l
44)	Sample	30	072844	VM040623	5 ppb	8260	ICAL	69-198m
45)	Sample	31	072845	VM040623	10 ppb	8260	ICAL	69-198n
46)	Sample	32	072846	VM040623	20 ppb	8260	ICAL	69-198o
47)	Sample	33	072847	VM040623	50 ppb	8260	ICAL	69-198q
48)	Sample	34	072848	VM040623	100 ppb	8260	ICAL	69-198s
49)	Sample	35	072849	VM040623	150 ppb	8260	ICAL	69-198t
50)	Sample	36	072850	VM040623	200 ppb	8260	ICAL	69-198u
51)	Sample	37	072851	VM040623	rinse			
52)	Sample	38	072852	VM040623	10 ppb	8260	SCV	69-195c
53)	Sample	100	072853	VM040623	rinse			
54)	Sample	100	072854	VM040623	rinse			

Sequence Name: D:\GCMS13\sequence\07-28-23.sequence.xml

Comment:

Operator: MD

*ANWB 7/28*

Data Path: D:\GCMS13\GCMS13\_Data\07-28-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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Line Type	ALS	File	Method	Sample Name/Misc Info
1) Sample	100	072801	VM040623	rinse
2) Sample	100	072802	VM040623	rinse
3) Sample	1	072803	VM040623	10 ppb 8260 CCV 69-198N
4) Sample	2	072804	VM040623	03-1785 lcs
5) Sample	3	072805	VM040623	03-1785 lcsd
6) Sample	100	072806	VM040623	rinse
7) Sample	4	072807	VM040623	03-1785 mb
8) Sample	5	072808	VM040623	03-1783 mb 1/0.5



## Injection Log

Data Directory: Y:\Proc\_GCMS13\07-28-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 072801.D rinse	VM040623.M	100	1.000	28 Jul 2023 06:17 am
2) 072802.D rinse	VM040623.M	100	1.000	28 Jul 2023 06:41 am
3) 072803.D 10 ppb 8260 CCV 69.. soil/water	VM040623.M	1	1.000	28 Jul 2023 07:04 am
4) 072804.D 03-1785 lcs	VM040623.M water	2	1.000	28 Jul 2023 07:27 am
5) 072805.D 03-1785 lcsd	VM040623.M water	3	1.000	28 Jul 2023 07:51 am
6) 072806.D rinse	VM040623.M	100	1.000	28 Jul 2023 08:14 am
7) 072807.D 03-1785 mb	VM040623.M water	4	1.000	28 Jul 2023 08:37 am
8) 072808.D 03-1783 mb 1/0.5	VM040623.M soil	5	1.000	28 Jul 2023 09:00 am
9) 072809.D rinse	VM040623.M soil/water	100	1.000	28 Jul 2023 10:24 am
10) 072810.D 03-1783 lcs	VM040623.M soil	6	1.000	28 Jul 2023 10:47 am
11) 072811.D rinse	VM040623.M soil	100	1.000	28 Jul 2023 11:10 am
12) 072812.D 03-1783 mb	VM040623.M soil	7	1.000	28 Jul 2023 11:34 am
13) 072813.D 03-1783 mb 1/0.5 rr	VM040623.M soil	8	1.000	28 Jul 2023 11:57 am
14) 072814.D 307360-03	VM040623.M soil	9	1.000	28 Jul 2023 12:21 pm
15) 072815.D 307360-03 ms	VM040623.M soil	10	1.000	28 Jul 2023 12:44 pm
16) 072816.D 307360-03 msd	VM040623.M soil	11	1.000	28 Jul 2023 01:08 pm
17) 072817.D rinse	VM040623.M	100	1.000	28 Jul 2023 01:31 pm
18) 072818.D rinse	VM040623.M	100	1.000	28 Jul 2023 01:54 pm
19) 072819.D 307367-01 1/0.5	VM040623.M soil	12	1.000	28 Jul 2023 02:17 pm
20) 072820.D 307367-02 1/0.5	VM040623.M soil	13	1.000	28 Jul 2023 02:40 pm
21) 072821.D	VM040623.M			

307367-03 1/0.5	soil		14	1.000	28 Jul 2023	03:04 pm
22) 072822.D		VM040623.M				
307367-04 1/0.5	soil		15	1.000	28 Jul 2023	03:27 pm
23) 072823.D		VM040623.M				
307367-05 1/0.5	soil		16	1.000	28 Jul 2023	03:51 pm
24) 072824.D		VM040623.M				
307367-05 1/0.5 rr	soil		17	1.000	28 Jul 2023	04:14 pm
25) 072825.D		VM040623.M				
307367-06 1/0.5	soil		18	1.000	28 Jul 2023	04:38 pm
26) 072826.D		VM040623.M				
307367-07 1/0.5	soil		19	1.000	28 Jul 2023	05:01 pm
27) 072827.D		VM040623.M				
307367-08 1/0.5	soil		20	1.000	28 Jul 2023	05:24 pm
28) 072828.D		VM040623.M				
307367-09 1/0.5	soil		21	1.000	28 Jul 2023	05:48 pm
29) 072829.D		VM040623.M				
50 ng BFB 69-21a	direct inj		22	1.000	28 Jul 2023	06:14 pm
30) 072830.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	06:44 pm
31) 072831.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	07:07 pm
32) 072832.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	07:30 pm
33) 072833.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	07:53 pm
34) 072834.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	08:16 pm
35) 072835.D		VM040623.M				
rinse			100	1.000	28 Jul 2023	08:39 pm
36) 072836.D		VM040623.M				
0.01 ppb 8260 ICAL..	soil/water		22	1.000	28 Jul 2023	09:02 pm
37) 072837.D		VM040623.M				
0.02 ppb 8260 ICAL..	soil/water		23	1.000	28 Jul 2023	09:26 pm
38) 072838.D		VM040623.M				
0.04 ppb 8260 ICAL..	soil/water		24	1.000	28 Jul 2023	09:49 pm
39) 072839.D		VM040623.M				
0.1 ppb 8260 ICAL ..	soil/water		25	1.000	28 Jul 2023	10:12 pm
40) 072840.D		VM040623.M				
0.2 ppb 8260 ICAL ..	soil/water		26	1.000	28 Jul 2023	10:36 pm
41) 072841.D		VM040623.M				
0.5 ppb 8260 ICAL ..	soil/water		27	1.000	28 Jul 2023	10:59 pm
42) 072842.D		VM040623.M				
1 ppb 8260 ICAL 69..	soil/water		28	1.000	28 Jul 2023	11:23 pm
43) 072843.D		VM040623.M				
2 ppb 8260 ICAL 69..	soil/water		29	1.000	28 Jul 2023	11:46 pm

44) 072844.D	VM040623.M				
5 ppb 8260 ICAL 69.. soil/water		30	1.000	29 Jul 2023	12:09 am
-----					
45) 072845.D	VM040623.M				
10 ppb 8260 ICAL 6.. soil/water		31	1.000	29 Jul 2023	12:32 am
-----					
46) 072846.D	VM040623.M				
20 ppb 8260 ICAL 6.. soil/water		32	1.000	29 Jul 2023	12:55 am
-----					
47) 072847.D	VM040623.M				
50 ppb 8260 ICAL 6.. soil/water		33	1.000	29 Jul 2023	01:19 am
-----					
48) 072848.D	VM040623.M				
100 ppb 8260 ICAL .. soil/water		34	1.000	29 Jul 2023	01:42 am
-----					
49) 072849.D	VM040623.M				
150 ppb 8260 ICAL .. soil/water		35	1.000	29 Jul 2023	02:05 am
-----					
50) 072850.D	VM040623.M				
200 ppb 8260 ICAL .. soil/water		36	1.000	29 Jul 2023	02:28 am
-----					
51) 072851.D	VM040623.M				
rinse	soil/water	37	1.000	29 Jul 2023	02:52 am
-----					
52) 072852.D	VM040623.M				
10 ppb 8260 SCV 69.. soil/water		38	1.000	29 Jul 2023	03:15 am
-----					
53) 072853.D	VM040623.M				
rinse		100	1.000	29 Jul 2023	03:38 am
-----					
54) 072854.D	VM040623.M				
rinse		100	1.000	29 Jul 2023	04:00 am
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Sequence Name: D:\GCMS13\sequence\08-11-23.sequence.xml

Comment:

Operator: MD

*ANUS 8/11*

Data Path: D:\GCMS13\GCMS13\_Data\08-11-23\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	081101	VM040623	rinse
2)	Sample	100	081102	VM040623	rinse
3)	Sample	1	081103	VM040623	10 ppb 8260 CCV 70-18N
4)	Sample	2	081104	VM040623	03-1819 lcs
5)	Sample	3	081105	VM040623	03-1819 lcsd
6)	Sample	100	081106	VM040623	rinse
7)	Sample	4	081107	VM040623	03-1819 mb
8)	Sample	5	081108	VM040623	03-1818 mb 1/0.5
9)	Sample	6	081109	VM040623	308146-01 1/0.5
10)	Sample	100	081110	VM040623	rinse
11)	Sample	7	081111	VM040623	308175-05 ms
12)	Sample	8	081112	VM040623	308175-05 msd
13)	Sample	100	081113	VM040623	rinse
14)	Sample	100	081114	VM040623	rinse
15)	Sample	100	081115	VM040623	rinse
16)	Sample	9	081116	VM040623	308175-14
17)	Sample	10	081117	VM040623	308175-04
18)	Sample	11	081118	VM040623	308175-12
19)	Sample	12	081119	VM040623	308175-11
20)	Sample	13	081120	VM040623	308175-10
21)	Sample	14	081121	VM040623	308175-13
22)	Sample	15	081122	VM040623	308175-05
23)	Sample	16	081123	VM040623	308175-06
24)	Sample	17	081124	VM040623	308175-08
25)	Sample	18	081125	VM040623	308175-01
26)	Sample	19	081126	VM040623	308175-09 1/10
27)	Sample	20	081127	VM040623	308175-07 1/10
28)	Sample	21	081128	VM040623	308175-02 1/10
29)	Sample	22	081129	VM040623	308175-03 1/10
30)	Sample	100	081130	VM040623	rinse
31)	Sample	100	081131	VM040623	rinse

## Injection Log

Data Directory: Y:\Proc\_GCMS13\08-11-23\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081101.D rinse	VM040623.M	100	1.000	11 Aug 2023 05:54 am
2) 081102.D rinse	VM040623.M	100	1.000	11 Aug 2023 06:17 am
3) 081103.D 10 ppb 8260 CCV 70.. soil/water	VM040623.M	1	1.000	11 Aug 2023 06:41 am
4) 081104.D 03-1819 lcs	VM040623.M water	2	1.000	11 Aug 2023 07:04 am
5) 081105.D 03-1819 lcsd	VM040623.M water	3	1.000	11 Aug 2023 07:27 am
6) 081106.D rinse	VM040623.M	100	1.000	11 Aug 2023 07:50 am
7) 081107.D 03-1819 mb	VM040623.M water	4	1.000	11 Aug 2023 08:14 am
8) 081108.D 03-1818 mb 1/0.5	VM040623.M soil	5	1.000	11 Aug 2023 08:37 am
9) 081109.D 308146-01 1/0.5	VM040623.M soil	6	1.000	11 Aug 2023 09:00 am
10) 081110.D rinse	VM040623.M	100	1.000	11 Aug 2023 09:24 am
11) 081111.D 308175-05 ms	VM040623.M water	7	1.000	11 Aug 2023 09:47 am
12) 081112.D 308175-05 msd	VM040623.M water	8	1.000	11 Aug 2023 10:10 am
13) 081113.D rinse	VM040623.M	100	1.000	11 Aug 2023 10:33 am
14) 081114.D rinse	VM040623.M	100	1.000	11 Aug 2023 10:56 am
15) 081115.D rinse	VM040623.M	100	1.000	11 Aug 2023 11:19 am
16) 081116.D 308175-14	VM040623.M water	9	1.000	11 Aug 2023 11:43 am
17) 081117.D 308175-04	VM040623.M water	10	1.000	11 Aug 2023 12:06 pm
18) 081118.D 308175-12	VM040623.M water	11	1.000	11 Aug 2023 12:29 pm
19) 081119.D 308175-11	VM040623.M water	12	1.000	11 Aug 2023 12:52 pm
20) 081120.D 308175-10	VM040623.M water	13	1.000	11 Aug 2023 01:15 pm
21) 081121.D	VM040623.M			

308175-13	water	VM040623.M	14	1.000	11 Aug 2023	01:38 pm
22) 081122.D		VM040623.M				
308175-05	water		15	1.000	11 Aug 2023	02:02 pm
23) 081123.D		VM040623.M				
308175-06	water		16	1.000	11 Aug 2023	02:25 pm
24) 081124.D		VM040623.M				
308175-08	water		17	1.000	11 Aug 2023	02:49 pm
25) 081125.D		VM040623.M				
308175-01	water		18	1.000	11 Aug 2023	03:12 pm
26) 081126.D		VM040623.M				
308175-09 1/10	water		19	1.000	11 Aug 2023	03:36 pm
27) 081127.D		VM040623.M				
308175-07 1/10	water		20	1.000	11 Aug 2023	03:59 pm
28) 081128.D		VM040623.M				
308175-02 1/10	water		21	1.000	11 Aug 2023	04:22 pm
29) 081129.D		VM040623.M				
308175-03 1/10	water		22	1.000	11 Aug 2023	04:46 pm
30) 081130.D		VM040623.M				
rinse	water		100	1.000	11 Aug 2023	05:09 pm
31) 081131.D		VM040623.M				
rinse	water		100	1.000	11 Aug 2023	05:32 pm

**EPA 8260D**  
**Checklists**

# GC/MS ICAL Checklist

Instrument: GC/MS 13

Sequence Date: 7.28.23

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓	7/29
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes:

Attach this sheet to raw data package.

YA 07/31/21

Supervisor Initials and Date



## GC/MS Data Daily Checklist

Instrument: GC/MS 13

Sequence Date: 8.11.23

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	8/14/23
Internal Standards within limits (50-200% of the CCVs)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	see below	
Non-Conformance Report filled out (if needed)		

Notes: brachonometric 7 2,2-dichloro T

Attach this sheet to raw data package.

YA 08/14/23  
Supervisor Initials and Date

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

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\07-28-23\072829.D

Tune Time : 28 Jul 2023 06:14 pm

Daily Calibration File : Y:\Proc\_GCMS13\07-28-23\072845.D

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

95959 72838 36121

File	Sample	Surrogate Recovery %				Internal Standard Responses		
072836.D	0.01 ppb 8	91	91	89	101	117316	78480	37244
072837.D	0.02 ppb 8	101	103	102	98	103848	79424	37411
072838.D	0.04 ppb 8	98	101	99	102	106121	79209	36554
072839.D	0.1 ppb 82	102	100	99	104	105154	79313	36878
072840.D	0.2 ppb 82	103	104	101	101	105364	79174	36712
072841.D	0.5 ppb 82	102	97	100	99	102881	77973	36990
072842.D	1 ppb 8260	92	87	90	99	112825	78090	37483
072843.D	2 ppb 8260	100	102	101	103	101892	77698	36400
072844.D	5 ppb 8260	101	103	101	100	100020	74975	37029
072845.D	10 ppb 826	103	106	102	98	95959	72838	36121
072846.D	20 ppb 826	101	109	103	97	94770	71267	36487
072847.D	50 ppb 826	103	98	104	100	92141	71248	36130
072848.D	100 ppb 82	99	102	104	99	91235	71914	36683
072849.D	150 ppb 82	102	97	102	99	93669	74153	37105
072850.D	200 ppb 82	102	101	104	98	93512	75125	37469
072852.D	10 ppb 826	102	95	102	97	101222	75344	38427

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

Created: Sat Jul 29 10:05:26 2023 GCMS13

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\08-11-23\081103.D

Tune Time : 11 Aug 2023 06:41 am

Daily Calibration File : Y:\Proc\_GCMS13\08-11-23\081103.D

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

76072 61246 31763

File	Sample	Surrogate Recovery %				Internal Standard Responses		
081104.D	03-1819 1c	107	106	101	93	73022	58926	30685
081105.D	03-1819 1c	106	98	105	93	73586	60189	30139
081107.D	03-1819 mb	97	95	92	96	83632	60629	29808
081108.D	03-1818 mb	105	97	100	96	77670	62115	30253
081109.D	308146-01	104	98	99	100	76787	60017	31353
081111.D	308175-05	103	104	104	96	93045	73562	37370
081112.D	308175-05	101	106	104	95	92521	73965	36656
081116.D	308175-14	91	93	91	97	110551	77625	38722
081117.D	308175-04	95	91	91	96	104608	74402	37370
081118.D	308175-12	96	94	94	96	103469	73768	36692
081119.D	308175-11	95	94	91	97	103386	73938	35070
081120.D	308175-10	100	101	98	96	96412	72728	35904
081121.D	308175-13	102	100	98	96	90795	70961	34954
081122.D	308175-05	103	107	98	95	89595	68344	33542
081123.D	308175-06	101	103	99	93	89845	66446	33360
081124.D	308175-08	103	100	116	95	80447	65145	33492
081125.D	308175-01	105	106	102	95	85356	65435	32884
081126.D	308175-09	103	103	100	93	83470	66738	32663
081127.D	308175-07	93	96	92	95	88495	61953	31469

-----  
081128.D 308175-02 105 102 98 95 79845 63615 31948  
-----

081129.D 308175-03 103 106 100 98 81940 62227 31387  
-----

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

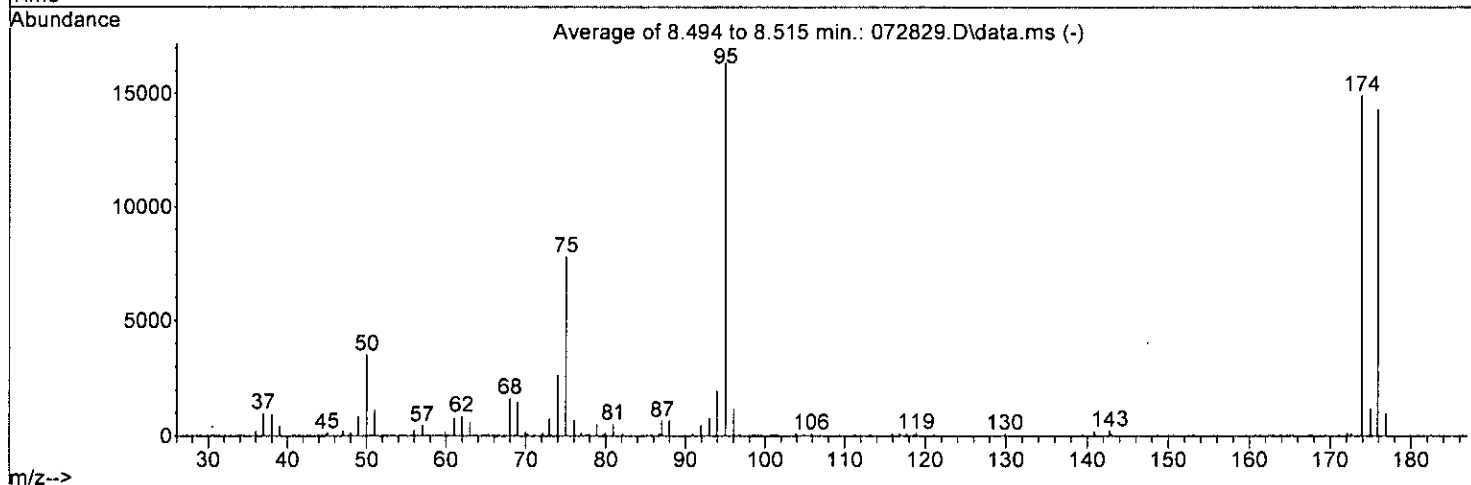
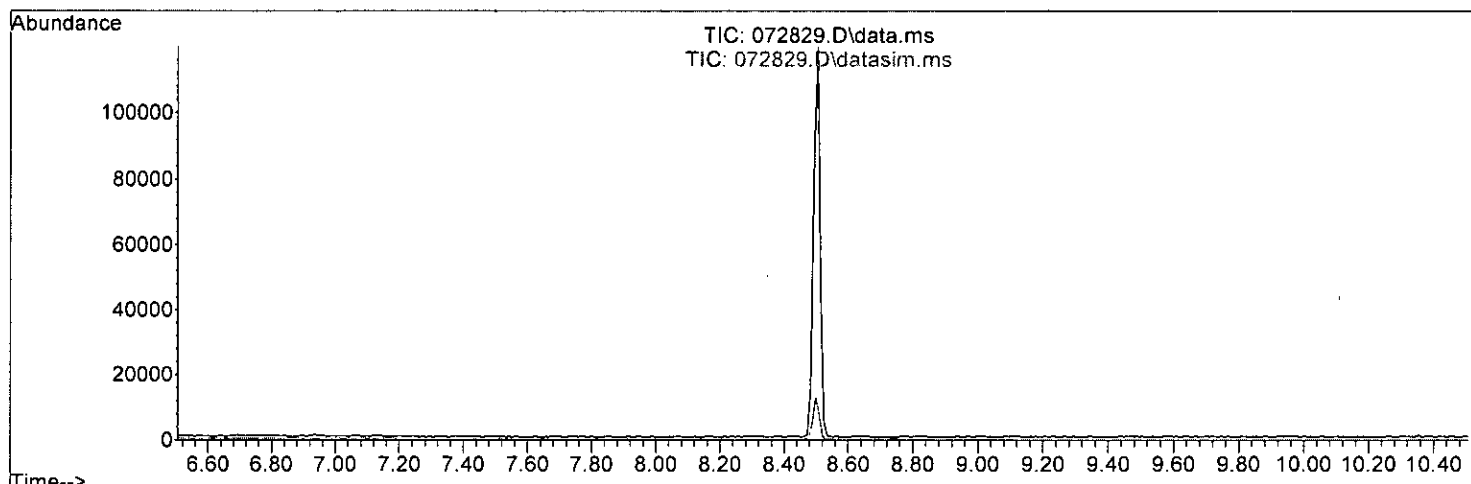
Created: Mon Aug 14 07:46:46 2023 GCMS13

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072829.D  
 Acq On : 28 Jul 2023 06:14 pm  
 Operator : MD  
 Sample : 50 ng BFB 69-21a  
 Misc : direct inj  
 ALS Vial : 22 Sample Multiplier: 1

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

Method : Y:\Methods\Inst13\072723vms13LL.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition LL  
 Last Update : Fri Jul 28 09:17:36 2023



AutoFind: Scans 689, 690, 691; Background Corrected with Scan 684

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	109.7	16352	PASS
96	95	5	9	7.0	1151	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	91.1	14900	PASS
175	174	5	9	7.9	1178	PASS
176	174	95	105	95.7	14266	PASS
177	176	5	10	6.7	950	PASS

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



Response Factor Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : 072823vms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response Via : Initial Calibration

Calibration Files  
 0.02=072837.D 0.04=072838.D 0.1=072839.D 0.2=072840.D 0.5=072841.D 1=072842.D 2=072843.D 5=072844.D 10=072845.D 20=072846.D  
 50=072847.D 100=072848.D 150=072849.D 200=072850.D 0.01=072836.D

Compound	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	0.01	Avg	%RSD
1) I Fluorobenzene																0.000#	-1.00
2) TMP Ethanol																0.271	3.70
3) 5 Dibromofluorom...	0.275	0.267	0.276	0.279	0.278	0.249	0.270	0.275	0.280	0.274	0.278	0.267	0.278	0.276	0.248	0.271	3.70
4) TMP Dichlorodifluo...																0.906	5.74
5) TMP Chloromethane																0.949	3.50
6) TMP Vinyl chloride	0.958	0.947	0.605	0.741	0.849	0.645	0.814	0.729	0.738	0.748	0.751	0.743	0.755			0.769	12.72
7) TMP Bromomethane																0.377	11.23
8) TMP Chloroethane																0.323	14.31
9) TMP Trichlorofluor...																1.197	7.85
10) TMP 2-Propanol																0.000	-1.00
11) TMP Acetone																0.040	6.55
12) TMP 1,1-Dichloroet...	0.337	0.342	0.281	0.263	0.396	0.236	0.281	0.270	0.279	0.272	0.271	0.268	0.273			0.288	14.42
13) TMP Hexane																0.394	5.77
14) TMP Methylene chlo...																0.244	7.84
15) TMP t-Butyl alcoho...																0.033	4.16
16) TMP Methyl t-butyl...	0.741	0.688	0.624	0.591	0.714	0.551	0.647	0.604	0.623	0.619	0.606	0.600	0.583	0.591		0.627	8.50
17) TMP trans-1,2-Dich...	0.351	0.332	0.299	0.283	0.364	0.233	0.282	0.257	0.267	0.261	0.260	0.252	0.251	0.255		0.282	14.25
18) TMP Diisopropyl et...																0.936	4.81
19) TMP 1,1-Dichloroet...	0.611	0.580	0.459	0.468	0.468	0.427	0.524	0.456	0.485	0.476	0.473	0.460	0.456	0.459		0.486	10.56
20) TMP Ethyl t-butyl ...																0.264	5.38
21) TMP 2,2-Dichloropr...																0.269	6.13
22) TMP cis-1,2-Dichlo...	0.380	0.342	0.269	0.276	0.280	0.254	0.309	0.271	0.286	0.281	0.280	0.271	0.271	0.272		0.289	11.69
23) TMP Chloroform																0.454	5.66
24) TMP 2-Butanone (MEK)																0.193	6.53
25) TMP t-Amyl methyl ...																0.594	5.19
26) TMP 1,2-Dichloroet...	0.857	0.792	0.460	0.418	0.411	0.375	0.449	0.389	0.409	0.394	0.389	0.378	0.374	0.375		0.462	33.85
27) TMP 1,1,1-Trichlor...	0.467	0.417	0.367	0.391	0.403	0.360	0.439	0.390	0.409	0.407	0.410	0.408	0.404	0.409		0.406	6.54
28) TMP 1,1-Dichloropr...																0.343	8.06
29) TMP Carbon tetrach...																0.354	6.70
30) 5 1,2-Dichloroet...	0.062	0.061	0.060	0.062	0.058	0.052	0.061	0.062	0.063	0.066	0.059	0.062	0.058	0.061	0.054	0.060	5.71
31) TMP Benzene	1.363	1.312	0.969	1.017	1.006	0.912	1.126	0.976	1.024	1.001	0.989	0.967	0.961	0.967	1.042	1.042	12.87
32) TMP Trichloroethene	0.510	0.417	0.301	0.293	0.319	0.270	0.344	0.302	0.312	0.304	0.300	0.297	0.291	0.301	0.326	0.326	19.46
33) TMP 1,2-Dichloropr...																0.269	6.41
34) TMP Bromodichlorom...																0.327	8.72
35) 5 Toluene-d8	1.133	1.098	1.096	1.118	1.113	1.004	1.120	1.117	1.129	1.144	1.156	1.154	1.139	1.152	0.994	1.111	4.42
36) TMP Dibromomethane																0.174	5.60
37) TMP 4-Methyl-2-pen...																0.056	4.32

Response Factor Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : 072823vms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 38) TMP cis-1,3-Dichloro... 0.425 0.423 0.371 0.456 0.409 0.450 0.450 0.475 0.484 0.494 0.506 0.449 8.98

		-----IS1D-----															
39) I	Chlorobenzene-d5	1.511	1.461	1.044	1.058	1.041	1.019	1.123	0.998	1.043	1.040	1.018	0.991	0.976	0.970	1.092	15.70
40) TMP	Toluene				0.525	0.477	0.416	0.530	0.516	0.527	0.529	0.560	0.573	0.570	0.578	0.527	9.00
41) TMP	trans-1,3-Dichloro...				0.323	0.325	0.318	0.353	0.317	0.328	0.329	0.327	0.316	0.311	0.308	0.323	3.71
42) TMP	1,1,2-Trichloro...															0.451	3.01
43) TMP	2-Hexanone				0.468	0.433	0.460	0.436	0.453	0.465	0.465	0.468	0.444	0.439	0.442	0.451	3.01
44) TMP	1,3-Dichloropr...				0.491	0.620	0.587	0.669	0.564	0.569	0.571	0.576	0.555	0.546	0.541	0.572	7.91
45) TMP	Tetrachloroethene	0.768	0.578	0.439	0.417	0.410	0.404	0.453	0.395	0.413	0.409	0.402	0.390	0.384	0.387	0.446	23.47
46) TMP	Dibromochlorom...				0.392	0.427	0.417	0.422	0.419	0.424	0.443	0.457	0.457	0.458	0.464	0.434	5.26
47) TMP	1,2-Dibromoeth...	0.579	0.597	0.401	0.414	0.419	0.407	0.456	0.413	0.429	0.437	0.434	0.420	0.416	0.415	0.803	23.41
48) TMP	Chlorobenzene				0.868	0.929	0.926	1.057	0.891	0.943	0.954	0.936	0.924	0.906	0.905	0.931	5.21
49) TMP	Ethylbenzene	2.115	2.052	1.463	1.497	1.521	1.504	1.707	1.518	1.586	1.594	1.565	1.496	1.466	1.438	1.609	13.22
50) TMP	1,1,1,2-Tetrac...				0.359	0.305	0.316	0.327	0.311	0.327	0.338	0.341	0.334	0.333	0.329	0.329	4.51
51) TMP	m,p-Xylene	0.840	0.800	0.576	0.582	0.596	0.586	0.664	0.597	0.622	0.625	0.612	0.585	0.571	0.564	0.630	13.50
52) TMP	o-Xylene	0.768	0.754	0.551	0.564	0.572	0.566	0.642	0.573	0.597	0.602	0.597	0.576	0.564	0.560	0.606	11.51
53) TMP	Styrene				0.950	0.878	0.788	0.972	0.887	0.915	0.932	0.942	0.914	0.902	0.892	0.906	5.37
54) TMP	Isopropylbenzene				1.459	1.345	1.293	1.402	1.313	1.373	1.392	1.405	1.371	1.341	1.344	1.367	3.42
55) TMP	Bromoform				0.258	0.231	0.206	0.229	0.219	0.224	0.232	0.252	0.253	0.259	0.264	0.239	8.00

		-----IS1D-----																
56) I	1,4-Dichlorobenzen...	0.886	0.921	0.937	0.907	0.891	0.894	0.930	0.896	0.885	0.878	0.905	0.892	0.887	0.887	0.912	0.901	1.97
57) 5	4-Bromofluorob...				3.104	3.691	3.226	3.827	3.180	3.380	3.290	3.315	3.208	3.188	3.174	3.326	6.89	
58) TMP	n-Propylbenzene				0.903	0.846	0.777	0.913	0.756	0.810	0.789	0.795	0.779	0.796	0.796	0.814	6.32	
59) TMP	Bromobenzene				2.323	2.190	2.268	2.562	2.235	2.384	2.334	2.346	2.270	2.262	2.245	2.311	4.35	
60) TMP	1,3,5-Trimethy...				0.941	0.820	0.736	0.801	0.726	0.745	0.744	0.755	0.730	0.730	0.716	0.768	8.58	
61) TMP	1,1,2,2-Tetrac...				0.865	0.806	0.778	0.713	0.680	0.571	0.599	0.588	0.589	0.575	0.567	0.658	16.37	
62) TMP	1,2,3-Trichlor...				1.979	2.067	1.955	2.210	1.849	1.994	1.956	1.911	1.837	1.841	1.822	1.947	6.01	
63) TMP	2-Chlorotoluene				2.186	2.223	2.231	2.550	2.259	2.289	2.274	2.276	2.187	2.187	2.168	2.257	4.70	
64) TMP	4-Chlorotoluene				2.166	2.135	1.997	2.302	2.068	2.121	2.094	2.115	2.080	2.085	2.073	2.112	3.62	
65) TMP	tert-Butylbenzene				2.404	2.382	2.384	2.625	2.332	2.444	2.472	2.491	2.453	2.445	2.451	2.444	3.10	
66) TMP	1,2,4-Trimethy...				3.150	3.064	2.996	3.405	2.968	3.114	3.104	3.136	3.076	3.079	3.104	3.109	3.62	
67) TMP	sec-Butylbenzene				2.122	2.580	2.568	2.864	2.484	2.626	2.649	2.709	2.640	2.638	2.662	2.595	7.05	
68) TMP	p-Isopropyltol...				1.342	1.486	1.403	1.552	1.397	1.443	1.448	1.462	1.434	1.451	1.458	1.443	3.70	
69) TMP	1,3-Dichlorobe...				1.568	1.461	1.495	1.579	1.424	1.440	1.461	1.468	1.436	1.451	1.448	1.475	3.51	
70) TMP	1,4-Dichlorobe...				1.419	1.288	1.314	1.537	1.316	1.368	1.365	1.379	1.365	1.363	1.370	1.371	4.79	
71) TMP	1,2-Dichlorobe...				0.175	0.141	0.152	0.128	0.128	0.129	0.139	0.141	0.145	0.152	0.156	0.146	9.45	
72) TMP	1,2-Dibromo-3-...				0.919	0.887	0.760	0.924	0.835	0.874	0.895	0.921	0.962	0.982	1.026	0.908	7.94	
73) TMP	1,2,4-Trichlor...				0.410	0.530	0.485	0.504	0.475	0.494	0.475	0.494	0.485	0.500	0.523	0.489	6.44	
74) TMP	Hexachlorobuta...				2.183	2.122	1.903	1.827	2.173	1.940	2.006	2.073	2.243	2.394	2.438	2.138	9.21	
75) TMP	Naphthalene				0.799	0.770	0.717	0.902	0.760	0.800	0.798	0.848	0.864	0.900	0.923	0.826	8.05	
76) TMP	1,2,3-Trichlor...																	

(#) = Out of Range

## Compound List Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : 072823vms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Fluorobenzene	96	4.73	1.000	A	1	A	B
2	T Ethanol	45	2.31	0.488	A	1	A	B
3	S Dibromofluoromethane	113	4.16	0.880	A	0	A	B
4	T Dichlorodifluoromethane	85	1.11	0.234	A	1	A	B
5	T Chloromethane	50	1.25	0.264	A	1	A	B
6	T Vinyl chloride	-62	1.32	0.278	A	1	A	B
7	T Bromomethane	94	1.57	0.331	A	1	A	B
8	T Chloroethane	-64	1.64	0.346	A	1	A	B
9	T Trichlorofluoromethane	101	1.84	0.388	A	1	A	B
10	T 2-Propanol	45	2.31	0.488	A	1	A	B
11	T Acetone	58	2.32	0.490	A	1	A	B
12	T 1,1-Dichloroethene	-96	2.26	0.478	L	2	A	B
13	T Hexane	57	3.15	0.665	A	2	A	B
14	T Methylene chloride	84	2.68	0.567	A	2	A	B
15	T t-Butyl alcohol (TBA)	59	2.81	0.593	A	1	A	B
16	T Methyl t-butyl ether (MTBE)	-73	2.92	0.618	A	1	A	B
17	T trans-1,2-Dichloroethene	-96	2.91	0.616	L	2	A	B
18	T Diisopropyl ether (DIPE)	45	3.34	0.706	A	3	A	B
19	T 1,1-Dichloroethane	-63	3.27	0.692	A	2	A	B
20	T Ethyl t-butyl ether (ETBE)	87	3.65	0.771	A	3	A	B
21	T 2,2-Dichloropropane	77	3.76	0.795	A	1	A	B
22	T cis-1,2-Dichloroethene	-96	3.76	0.794	A	2	A	B
23	T Chloroform	83	4.03	0.851	A	1	A	B
24	T 2-Butanone (MEK)	43	3.78	0.799	A	2	A	B
25	T t-Amyl methyl ether (TAME)	73	4.60	0.972	A	2	A	B
26	T 1,2-Dichloroethane (EDC)	-62	4.51	0.954	L	1	A	B
27	T 1,1,1-Trichloroethane	-97	4.19	0.885	A	2	A	B
28	T 1,1-Dichloropropene	75	4.32	0.913	A	2	A	B
29	T Carbon tetrachloride	117	4.32	0.913	A	1	A	B
30	S 1,2-Dichloroethane-d4	102	4.45	0.941	A	1	A	B
31	T Benzene	-78	4.49	0.949	L	1	A	B
32	T Trichloroethene	-95	5.04	1.065	L	3	A	B
33	T 1,2-Dichloropropane	63	5.23	1.105	A	1	A	B
34	T Bromodichloromethane	83	5.47	1.155	A	2	A	B
35	S Toluene-d8	98	6.10	1.289	A	1	A	B
36	T Dibromomethane	93	5.34	1.127	A	2	A	B
37	T 4-Methyl-2-pentanone	85	6.01	1.269	A	2	A	B
38	T cis-1,3-Dichloropropene	75	5.86	1.238	A	2	A	B
39	I Chlorobenzene-d5	117	7.40	1.000	A	1	A	B
40	T Toluene	-92	6.16	0.833	L	1	A	B
41	T trans-1,3-Dichloropropene	75	6.36	0.859	A	2	A	B
42	T 1,1,2-Trichloroethane	-83	6.51	0.880	A	2	A	B
43	T 2-Hexanone	43	6.76	0.914	A	3	A	B
44	T 1,3-Dichloropropane	76	6.67	0.901	A	1	A	B
45	T Tetrachloroethene	-164	6.64	0.898	L	3	A	B
46	T Dibromochloromethane	129	6.87	0.928	A	1	A	B
47	T 1,2-Dibromoethane (EDB)	-107	6.97	0.942	L	2	A	B
48	T Chlorobenzene	112	7.43	1.004	A	2	A	B
49	T Ethylbenzene	-91	7.54	1.019	L	1	A	B
50	T 1,1,1,2-Tetrachloroethane	131	7.50	1.014	A	2	A	B
51	T m,p-Xylene	-106	7.64	1.033	L	1	A	B
52	T o-Xylene	-106	8.01	1.083	L	1	A	B
53	T Styrene	104	8.03	1.085	A	1	A	B
54	T Isopropylbenzene	105	8.36	1.130	A	1	A	B
55	T Bromoform	173	8.19	1.108	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.62	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.50	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.76	0.911	A	1	A	B
59	T	Bromobenzene	156	8.65	0.899	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.93	0.928	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.65	0.899	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.69	0.903	A	3	A	B
63	T	2-Chlorotoluene	91	8.84	0.918	A	1	A	B
64	T	4-Chlorotoluene	91	8.94	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.25	0.961	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.29	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.45	0.983	A	1	A	B
68	T	p-Isopropyltoluene	119	9.61	0.999	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.55	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.64	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	10.00	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.77	1.120	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.59	1.205	A	2	A	B
74	T	Hexachlorobutadiene	225	11.77	1.223	A	2	A	B
75	T	Naphthalene	128	11.83	1.230	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	12.07	1.254	A	2	A	B

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

#Qual = number of qualifiers

A/H = Area or Height

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

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072823vms13.M Sat Jul 29 10:04:00 2023

Calibration Status Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : 072823vms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response Via : Initial Calibration

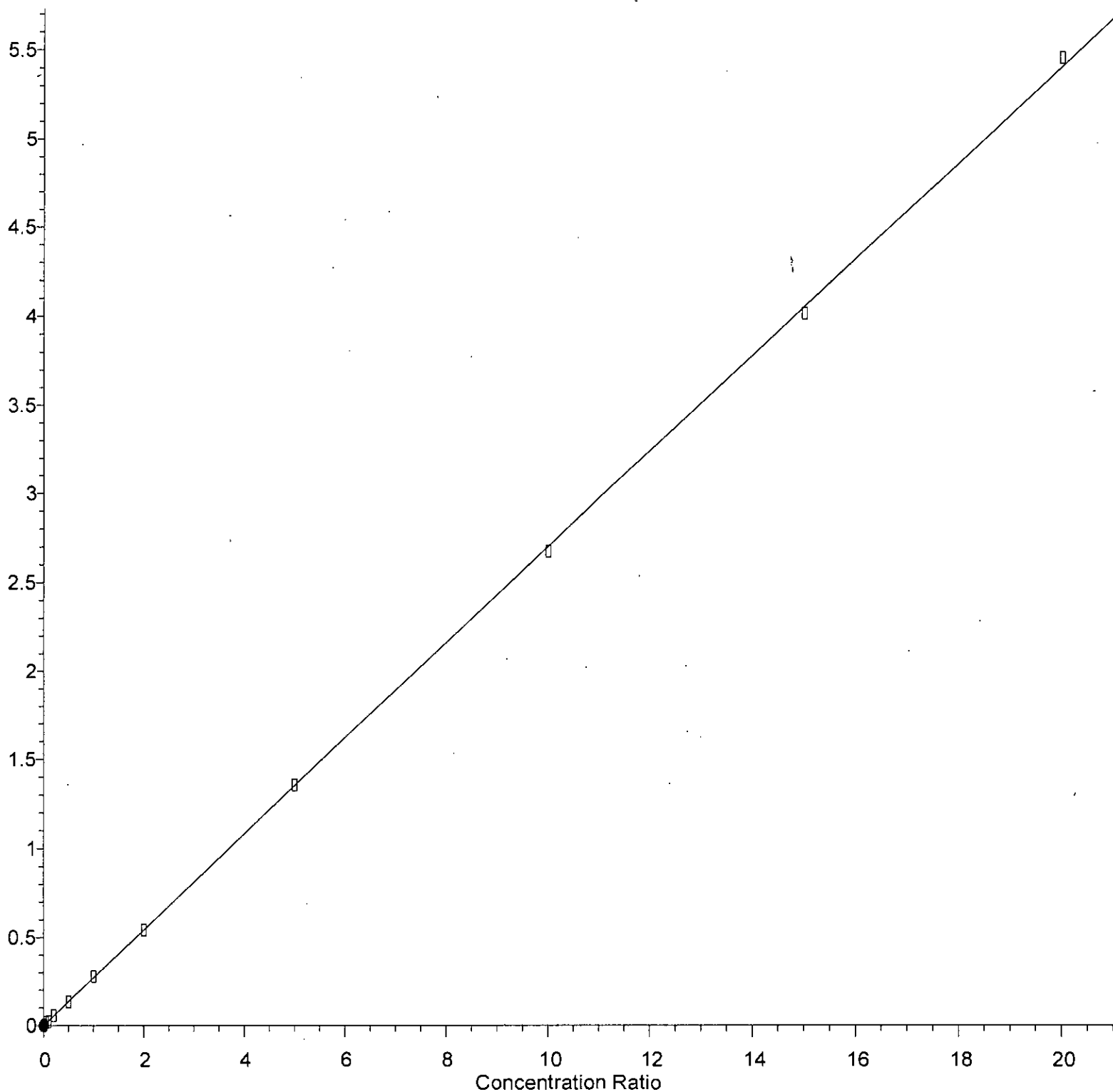
#	ID	Conc	ISTD Conc	Path\File
1	0.02	0	10	Y:\Proc_GCMS13\07-28-23\072837.D
2	0.04	0	10	Y:\Proc_GCMS13\07-28-23\072838.D
3	0.1	0	10	Y:\Proc_GCMS13\07-28-23\072839.D
4	0.2	0	10	Y:\Proc_GCMS13\07-28-23\072840.D
5	0.5	1	10	Y:\Proc_GCMS13\07-28-23\072841.D
6	1	1	10	Y:\Proc_GCMS13\07-28-23\072842.D
7	2	2	10	Y:\Proc_GCMS13\07-28-23\072843.D
8	5	5	10	Y:\Proc_GCMS13\07-28-23\072844.D
9	10	10	10	Y:\Proc_GCMS13\07-28-23\072845.D
10	20	20	10	Y:\Proc_GCMS13\07-28-23\072846.D
11	50	50	10	Y:\Proc_GCMS13\07-28-23\072847.D
12	100	100	10	Y:\Proc_GCMS13\07-28-23\072848.D
13	150	150	10	Y:\Proc_GCMS13\07-28-23\072849.D
14	200	200	10	Y:\Proc_GCMS13\07-28-23\072850.D
15	0.01	-1	10	Y:\Proc_GCMS13\07-28-23\072836.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Jul 29 09:10 2023	Jul 29 09:07 2023	28 Jul 2023 09:26 pm
2	0.04	Jul 29 09:10 2023	Jul 29 09:08 2023	28 Jul 2023 09:49 pm
3	0.1	Jul 29 09:10 2023	Jul 29 09:08 2023	28 Jul 2023 10:12 pm
4	0.2	Jul 29 09:10 2023	Jul 29 09:09 2023	28 Jul 2023 10:36 pm
5	0.5	Jul 29 09:10 2023	Jul 29 09:06 2023	28 Jul 2023 10:59 pm
6	1	Jul 29 09:10 2023	Jul 29 09:10 2023	28 Jul 2023 11:23 pm
7	2	Jul 29 09:10 2023	Jul 29 09:10 2023	28 Jul 2023 11:46 pm
8	5	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 12:09 am
9	10	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 12:32 am
10	20	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 12:55 am
11	50	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 01:19 am
12	100	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 01:42 am
13	150	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 02:05 am
14	200	Jul 29 09:10 2023	Jul 29 09:06 2023	29 Jul 2023 02:28 am
15	0.01	Jul 29 09:10 2023	Jul 29 09:05 2023	28 Jul 2023 09:02 pm

072823vms13.M Sat Jul 29 10:04:07 2023

1,1-Dichloroethene

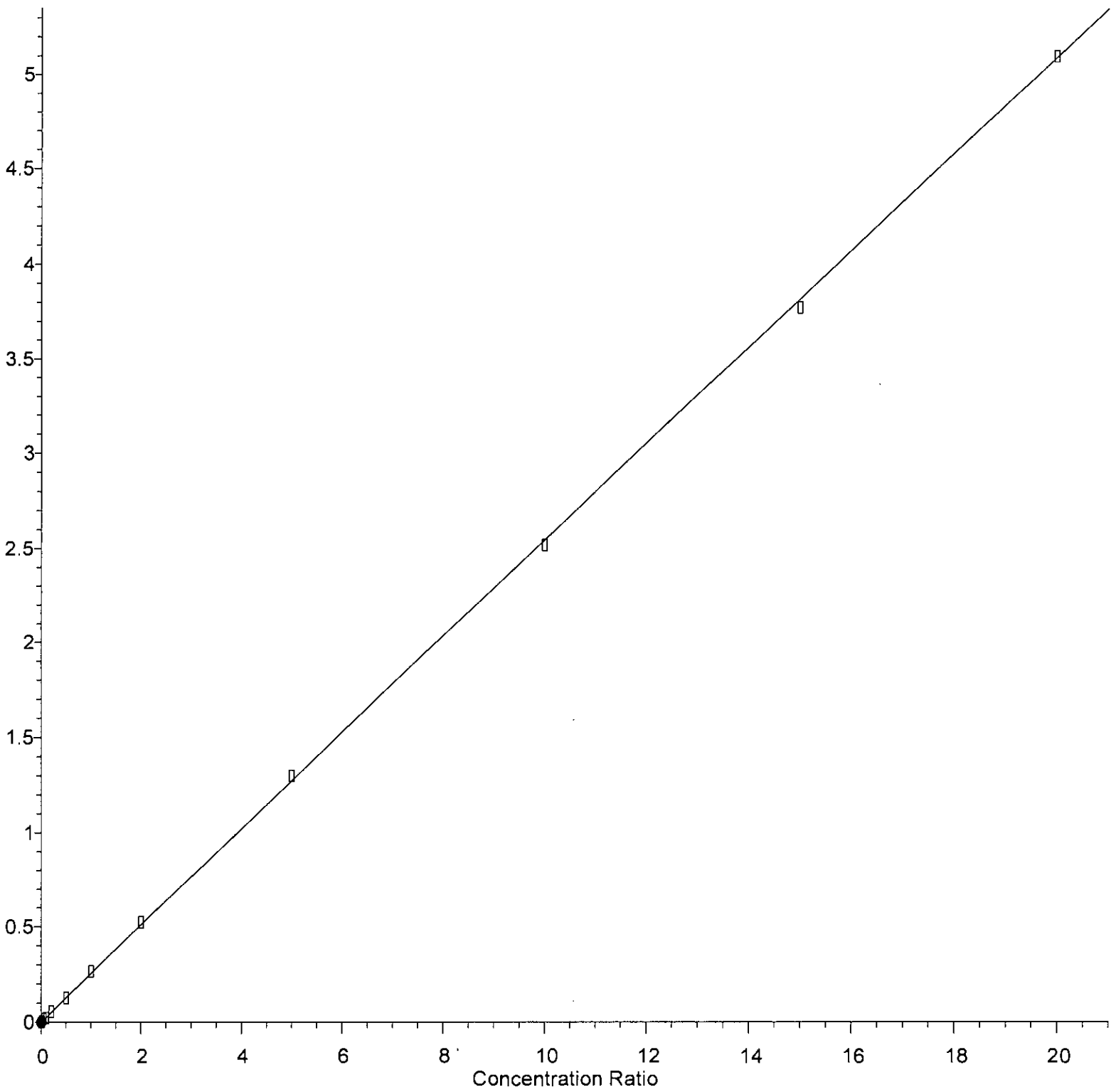
Response Ratio



Response = 2.702e-001 \* Amt + 2.684e-004  
Coef of Det (r^2) = 0.999675 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

trans-1,2-Dichloroethene

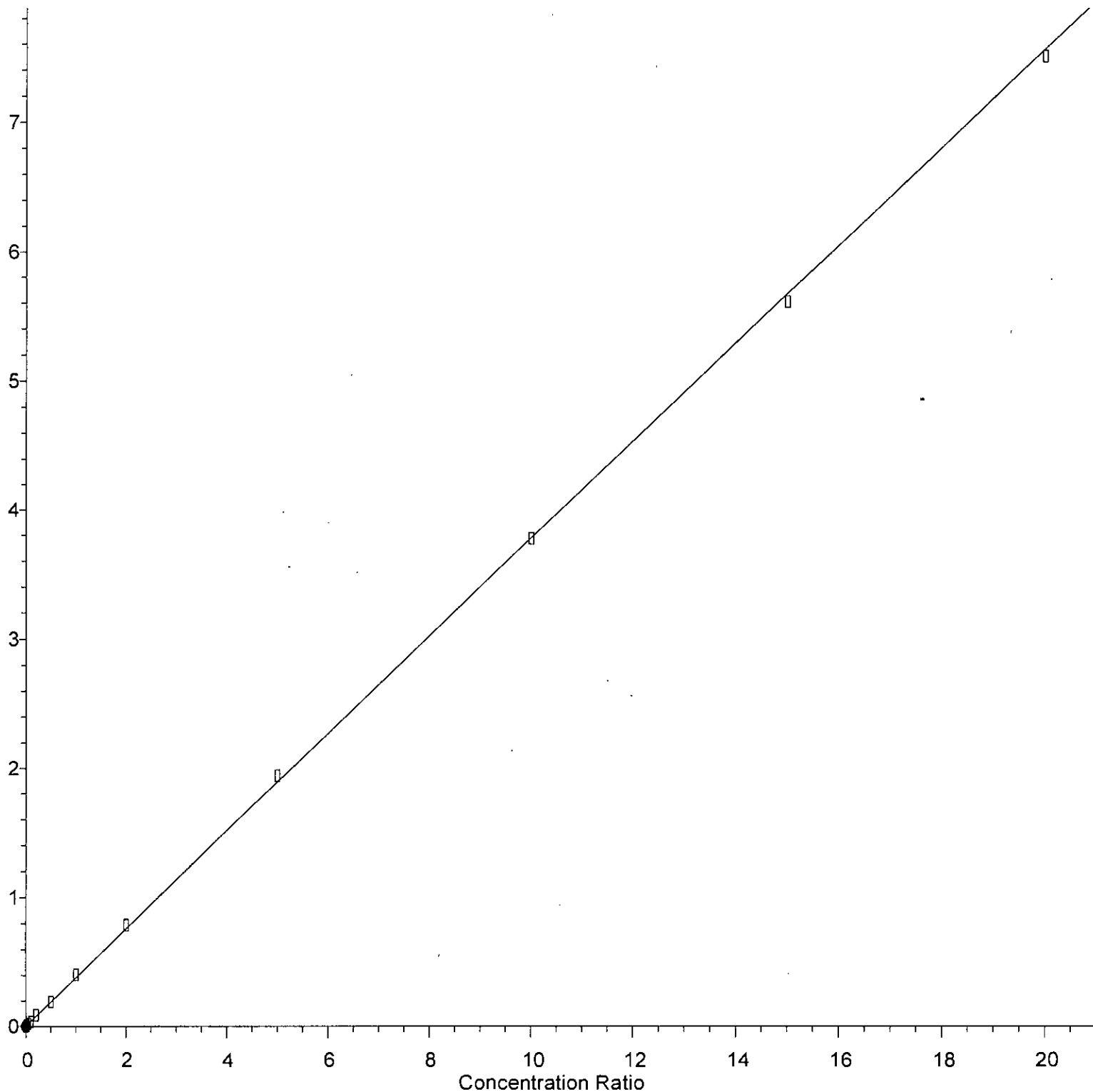
Response Ratio



Response = 2.544e-001 \* Amt + 4.115e-004  
Coef of Det (r^2) = 0.999619 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

1,2-Dichloroethane (EDC)

Response Ratio

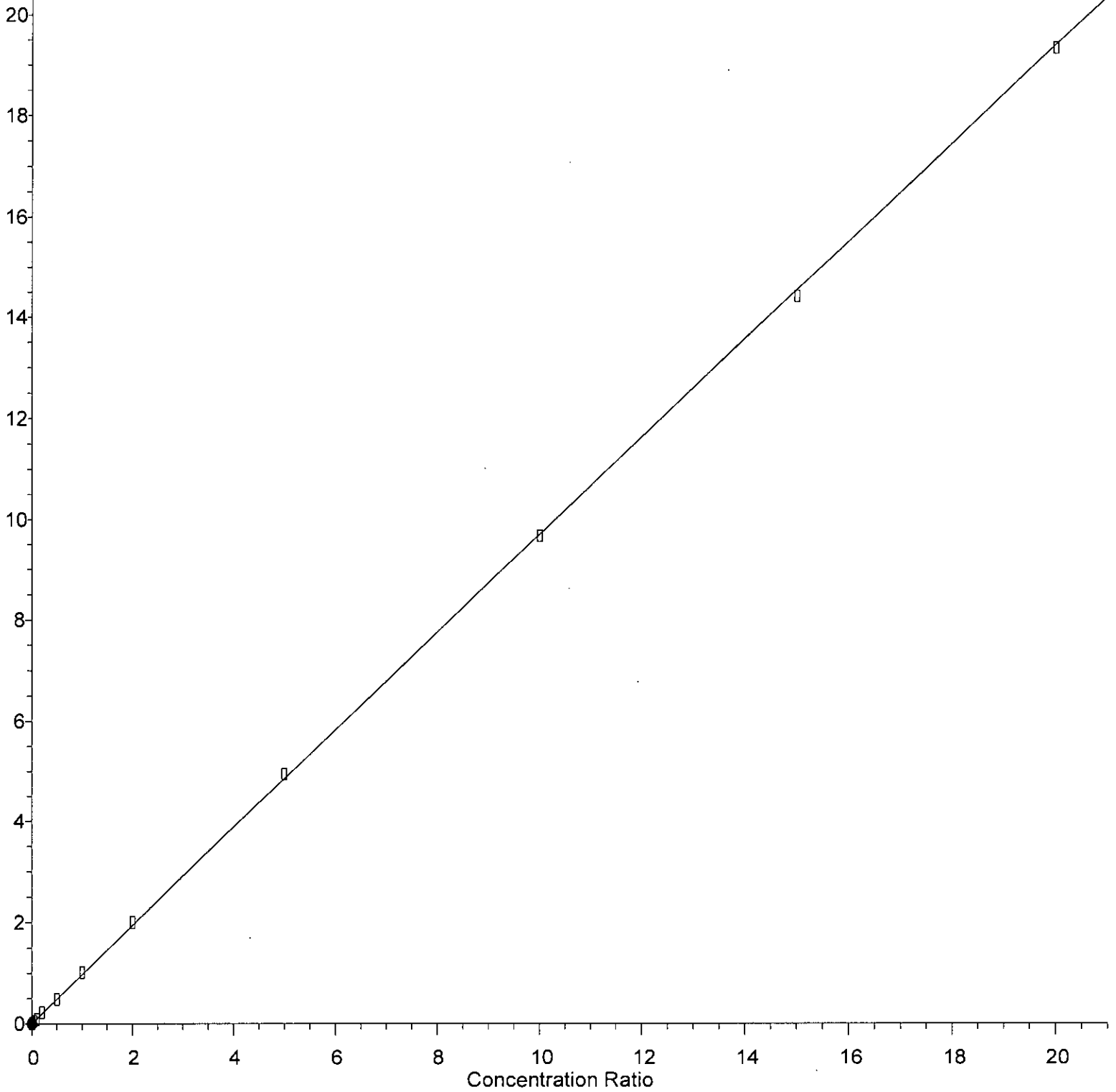


Response = 3.780e-001 \* Amt + 1.250e-003  
Coef of Det (r^2) = 0.999591 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023



Benzene

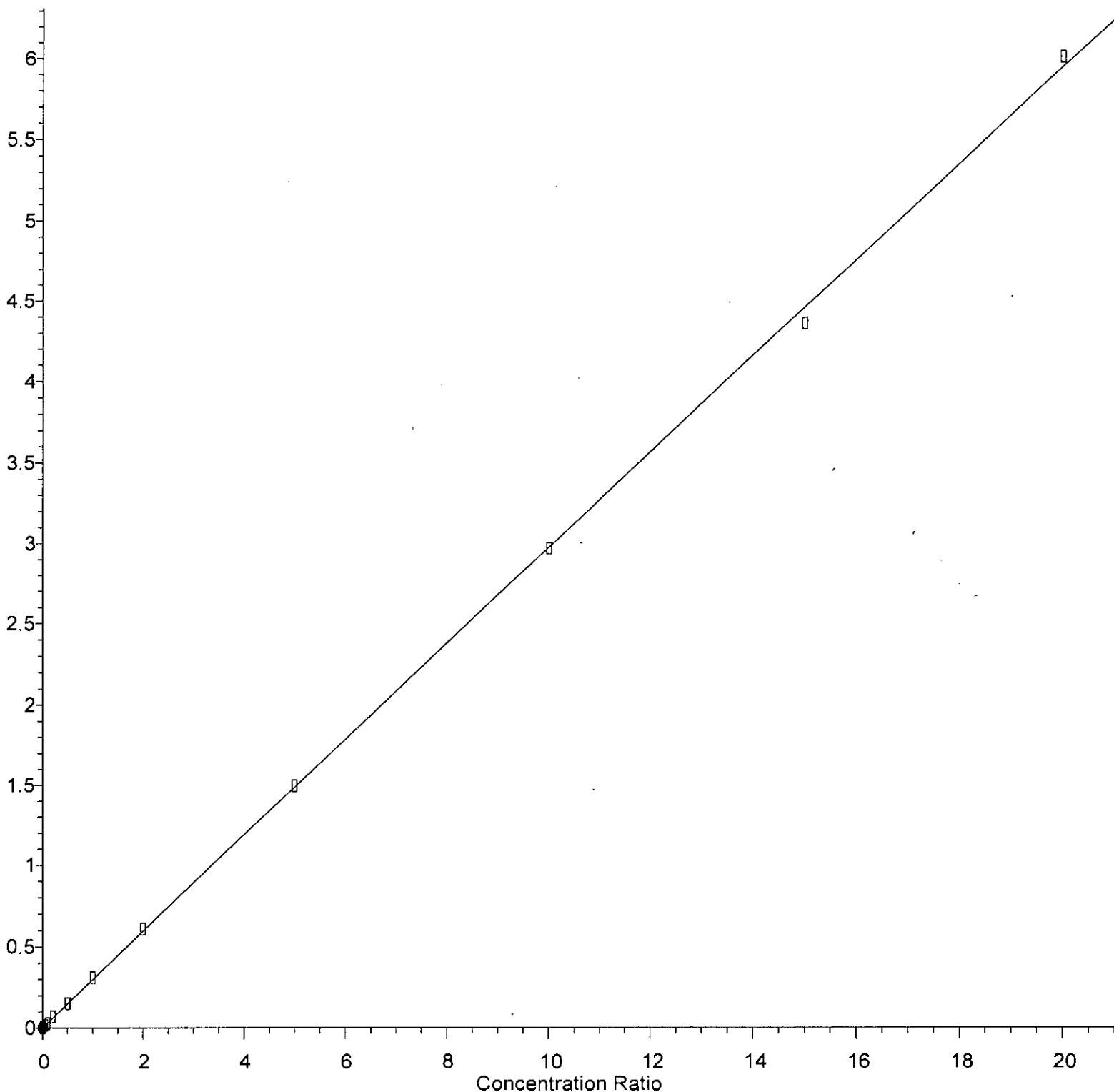
Response Ratio



Response = 9.700e-001 \* Amt + 1.076e-003  
Coef of Det (r^2) = 0.999738 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Trichloroethene

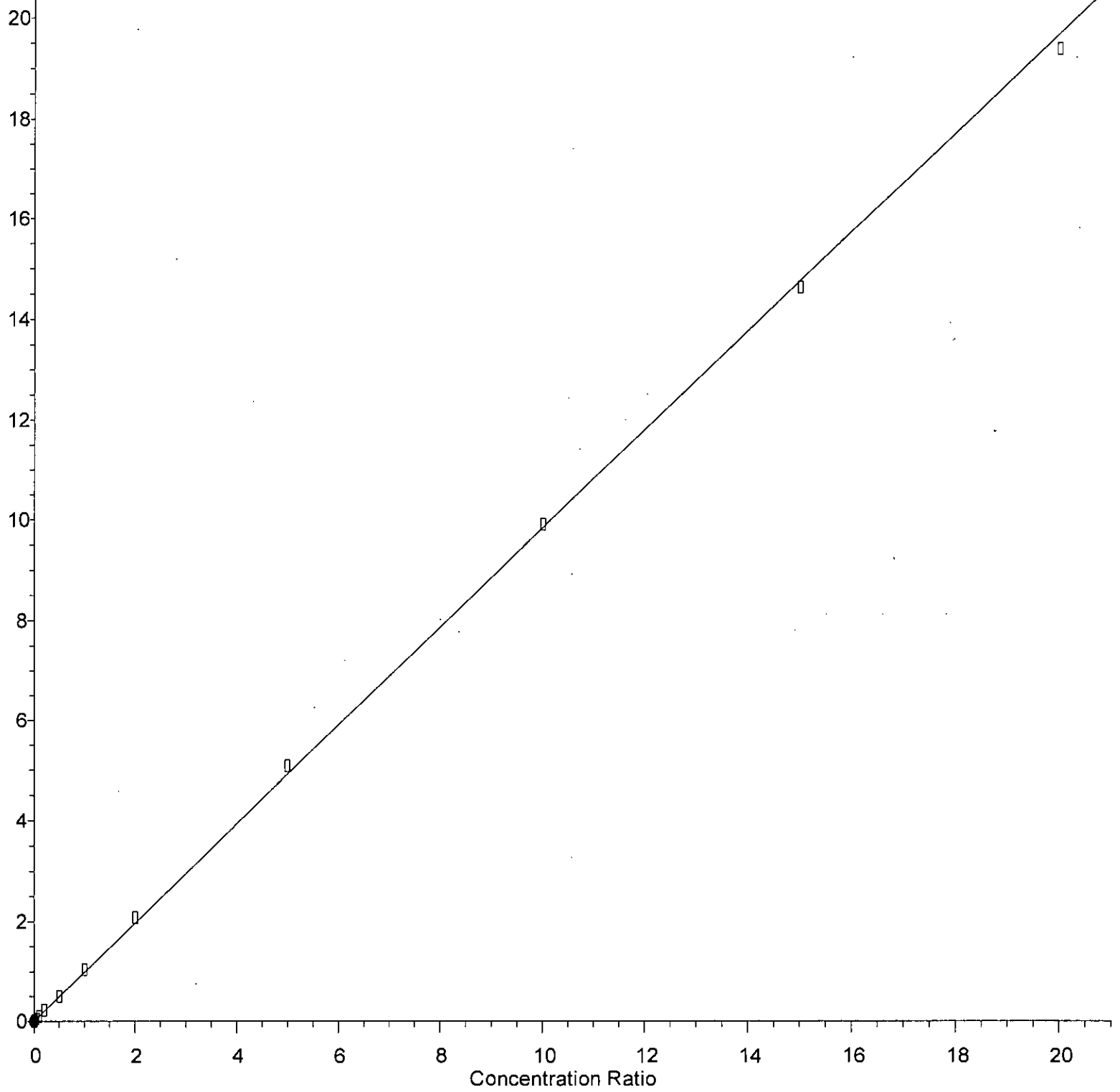
Response Ratio



Response = 2.975e-001 \* Amt + 4.204e-004  
Coef of Det (r^2) = 0.999633 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Toluene

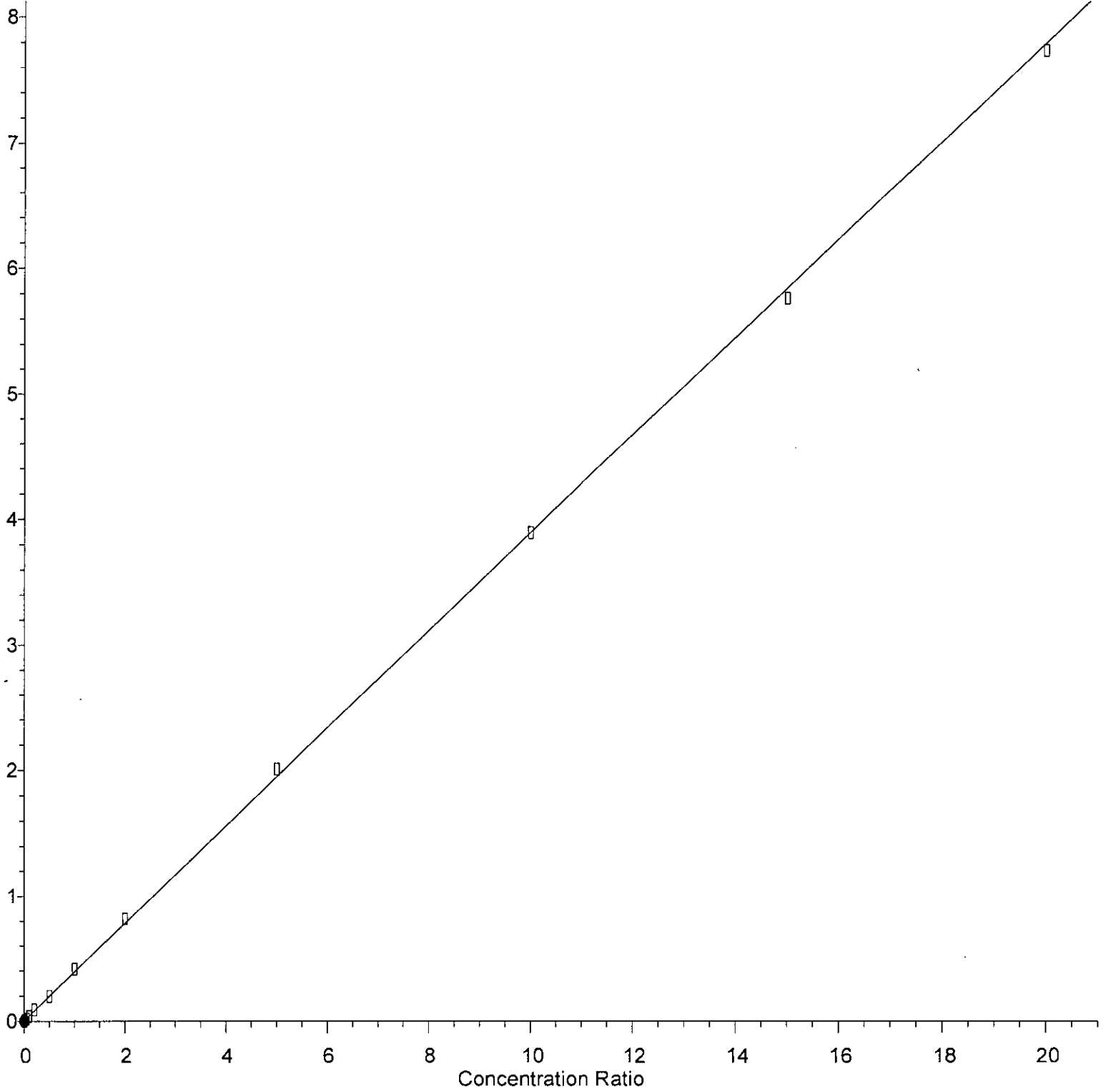
Response Ratio



Response = 9.845e-001 \* Amt + 1.609e-003  
Coef of Det (r^2) = 0.999524 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

Tetrachloroethene

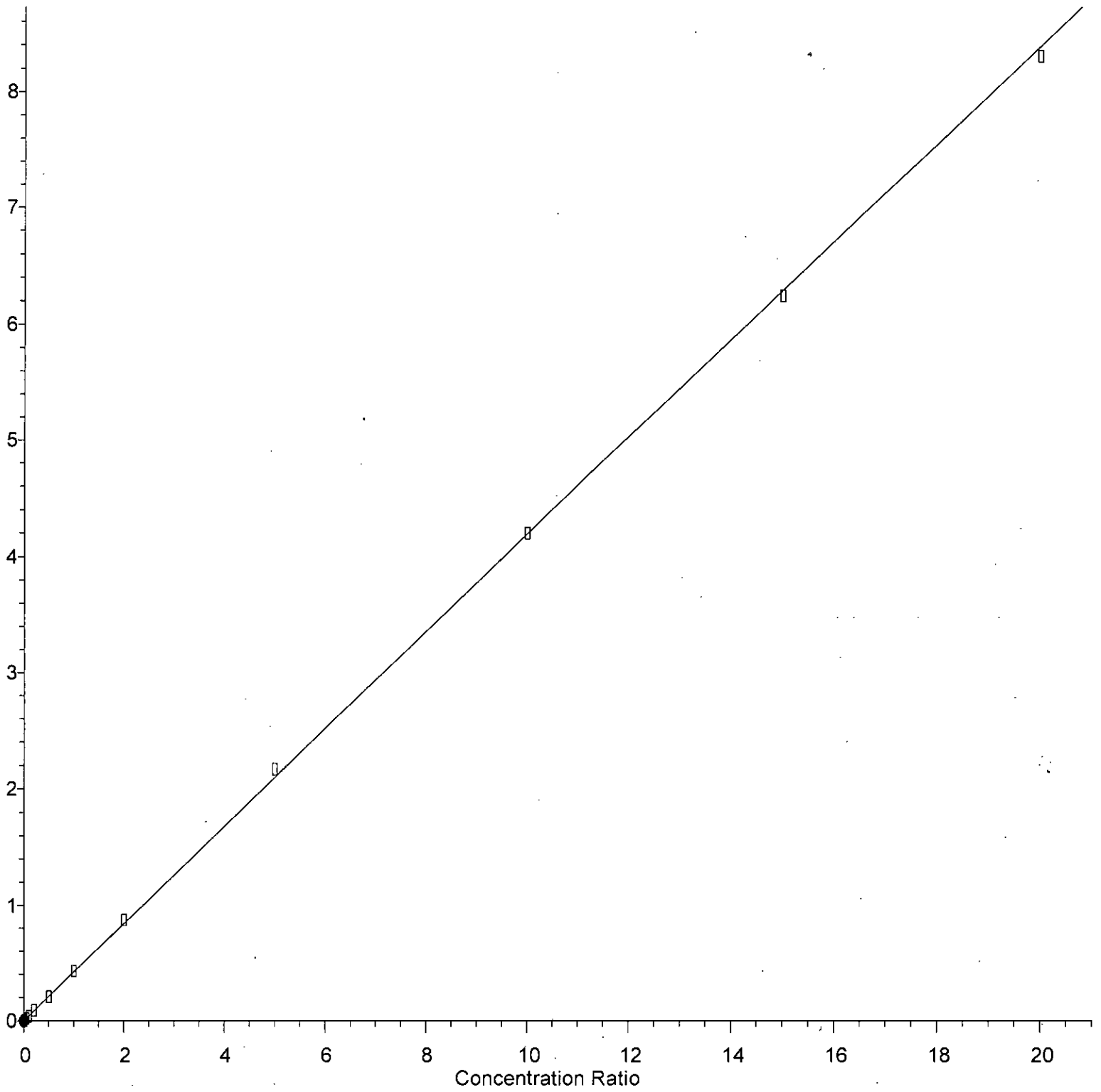
Response Ratio



Response = 3.895e-001 \* Amt + 8.458e-004  
Coef of Det (r^2) = 0.999586 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

1,2-Dibromoethane (EDB)

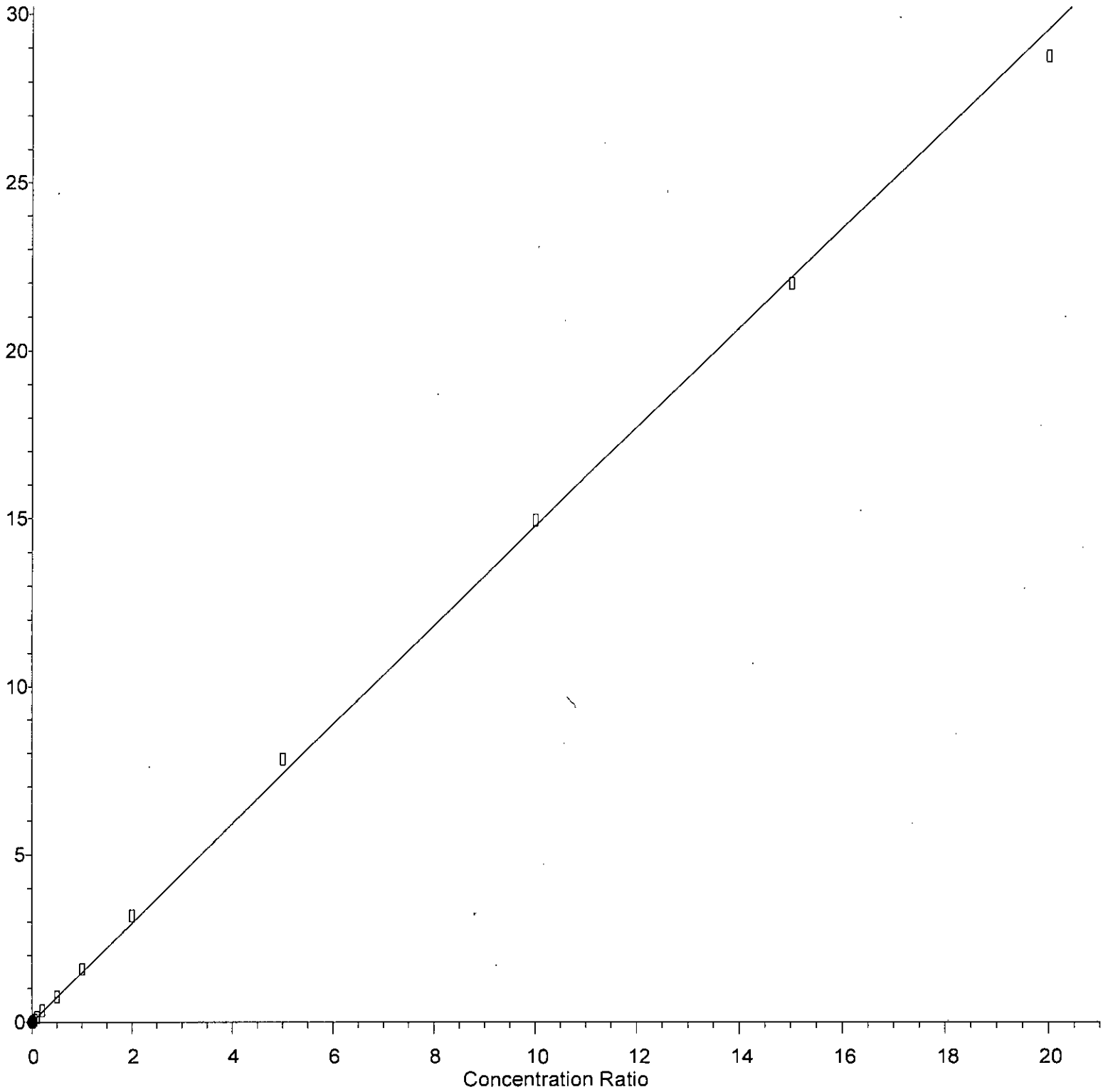
Response Ratio



Response =  $4.193e-001 * Amt + 3.871e-004$   
Coef of Det ( $r^2$ ) = 0.999723 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

# Ethylbenzene

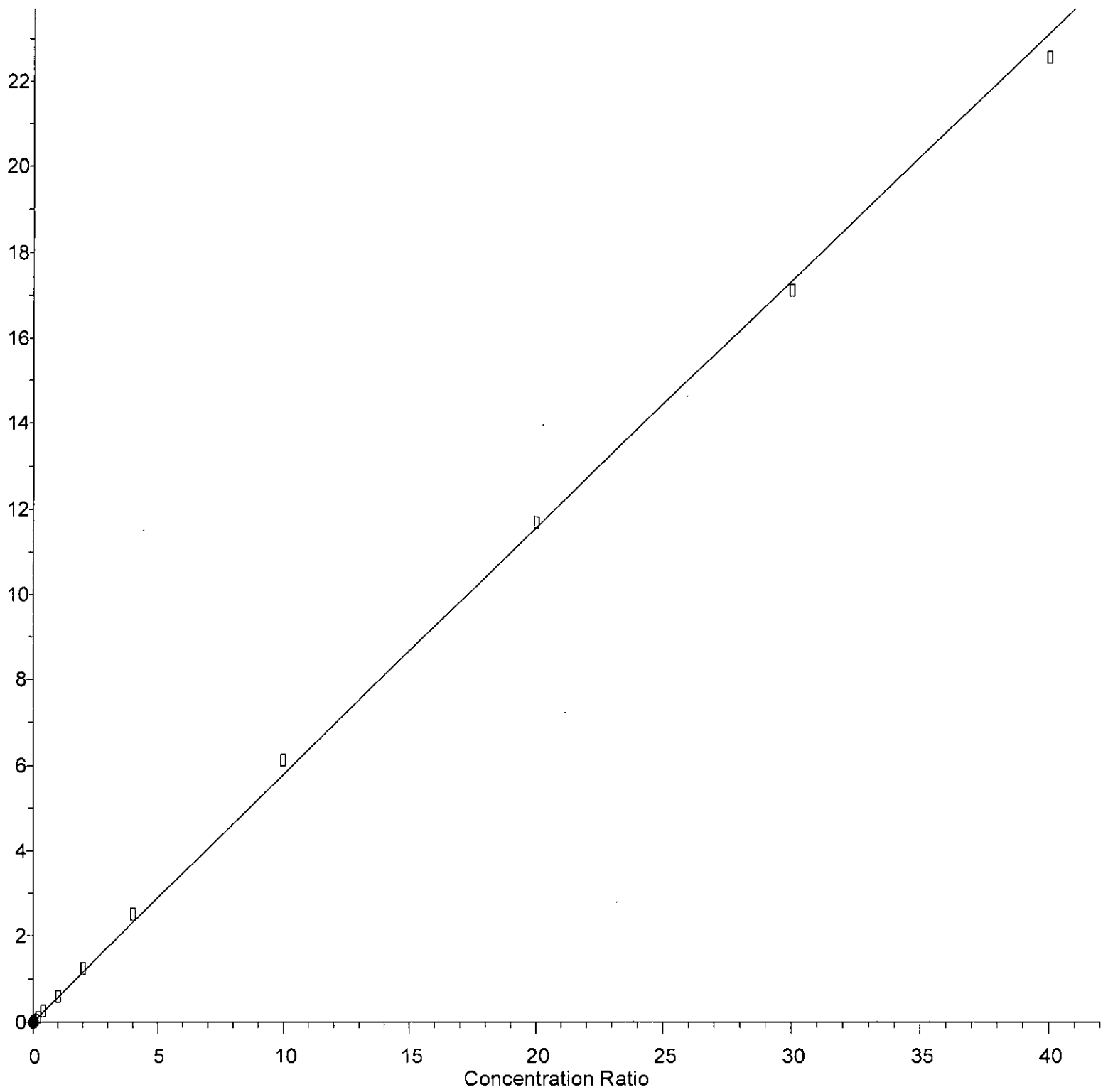
Response Ratio



Response = 1.478e+000 \* Amt + 1.941e-003  
Coef of Det (r^2) = 0.998950 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

m,p-Xylene

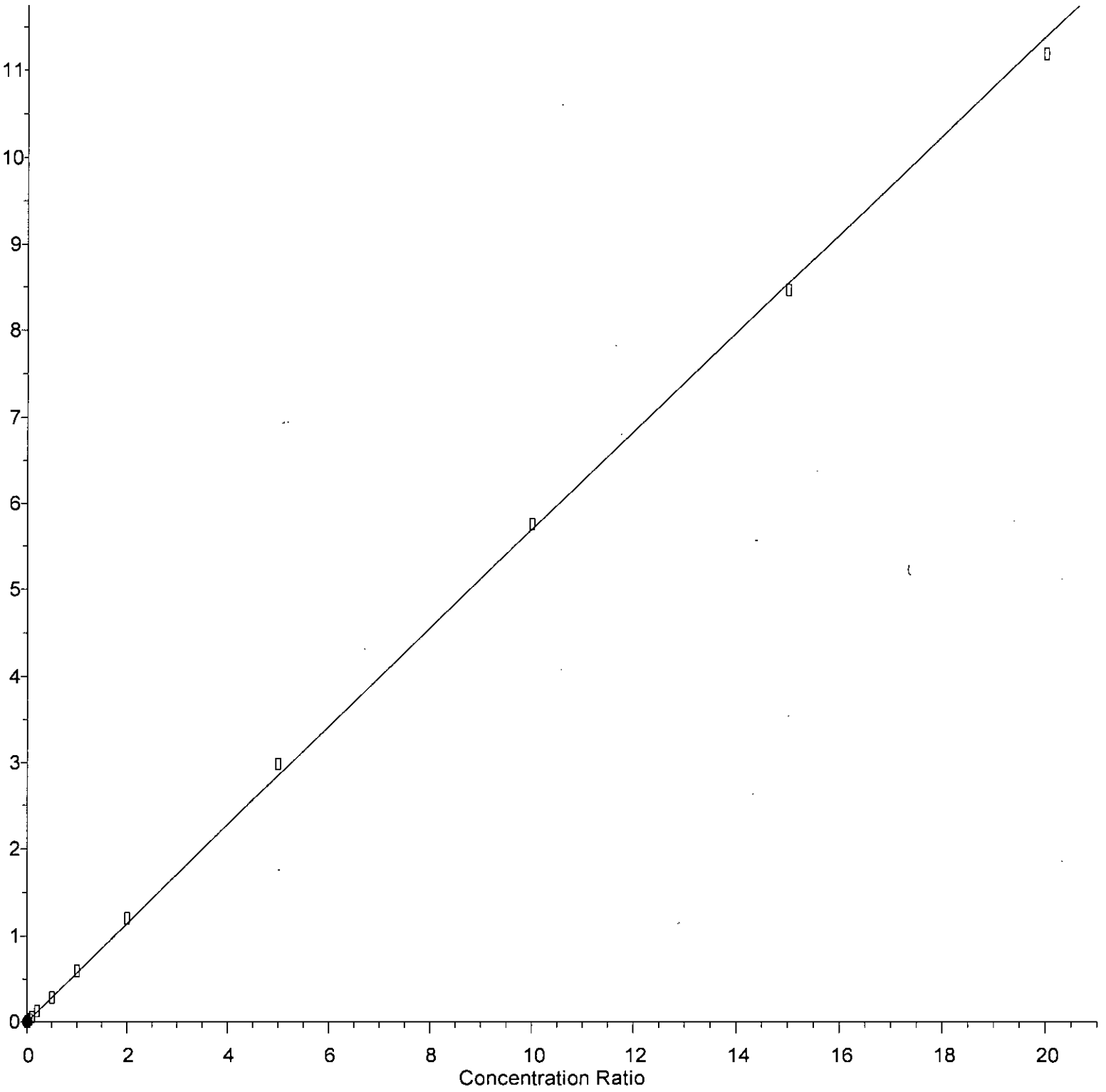
Response Ratio



Response = 5.784e-001 \* Amt + 1.541e-003  
Coef of Det (r^2) = 0.998962 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023

o-Xylene

Response Ratio



Response = 5.700e-001 \* Amt + 5.393e-004  
Coef of Det (r^2) = 0.999400 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\072823vms13.M  
Calibration Table Last Updated: Sat Jul 29 09:22:43 2023



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	117316	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	78480	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37244	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	29108	9.144	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	91.40%	
30) 1,2-Dichloroethane-d4	4.45	102	6387	9.060	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	90.60%	
35) Toluene-d8	6.10	98	116631	8.948	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	89.50%	
57) 4-Bromofluorobenzene	8.50	95	33980	10.130	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0				N.D.
4) Dichlorodifluoromethane	0.00		0				N.D. d
5) Chloromethane	0.00		0				N.D. d
6) Vinyl chloride	0.00		0				N.D. d
7) Bromomethane	0.00		0				N.D.
8) Chloroethane	0.00		0				N.D. d
9) Trichlorofluoromethane	0.00		0				N.D. d
10) 2-Propanol	0.00		0				N.D.
11) Acetone	0.00		0				N.D. d
12) 1,1-Dichloroethene	0.00		0				N.D. d
13) Hexane	0.00		0				N.D. d
14) Methylene chloride	0.00		0				N.D. d
15) t-Butyl alcohol (TBA)	0.00		0				N.D.
16) Methyl t-butyl ether (...)	0.00		0				N.D. d
17) trans-1,2-Dichloroethene	0.00		0				N.D. d
18) Diisopropyl ether (DIPE)	0.00		0				N.D. d
19) 1,1-Dichloroethane	0.00		0				N.D. d
20) Ethyl t-butyl ether (E...)	0.00		0				N.D.
21) 2,2-Dichloropropane	0.00		0				N.D.
22) cis-1,2-Dichloroethene	0.00		0				N.D. d
23) Chloroform	0.00		0				N.D.
24) 2-Butanone (MEK)	0.00		0				N.D. d
25) t-Amyl methyl ether (T...)	0.00		0				N.D.
26) 1,2-Dichloroethane (EDC)	0.00		0				N.D. d
27) 1,1,1-Trichloroethane	0.00		0				N.D. d
28) 1,1-Dichloropropene	0.00		0				N.D.
29) Carbon tetrachloride	0.00		0				N.D.
31) Benzene	0.00		0				N.D. d
32) Trichloroethene	0.00		0				N.D. d
33) 1,2-Dichloropropane	0.00		0				N.D.
34) Bromodichloromethane	0.00		0				N.D.
36) Dibromomethane	0.00		0				N.D.

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

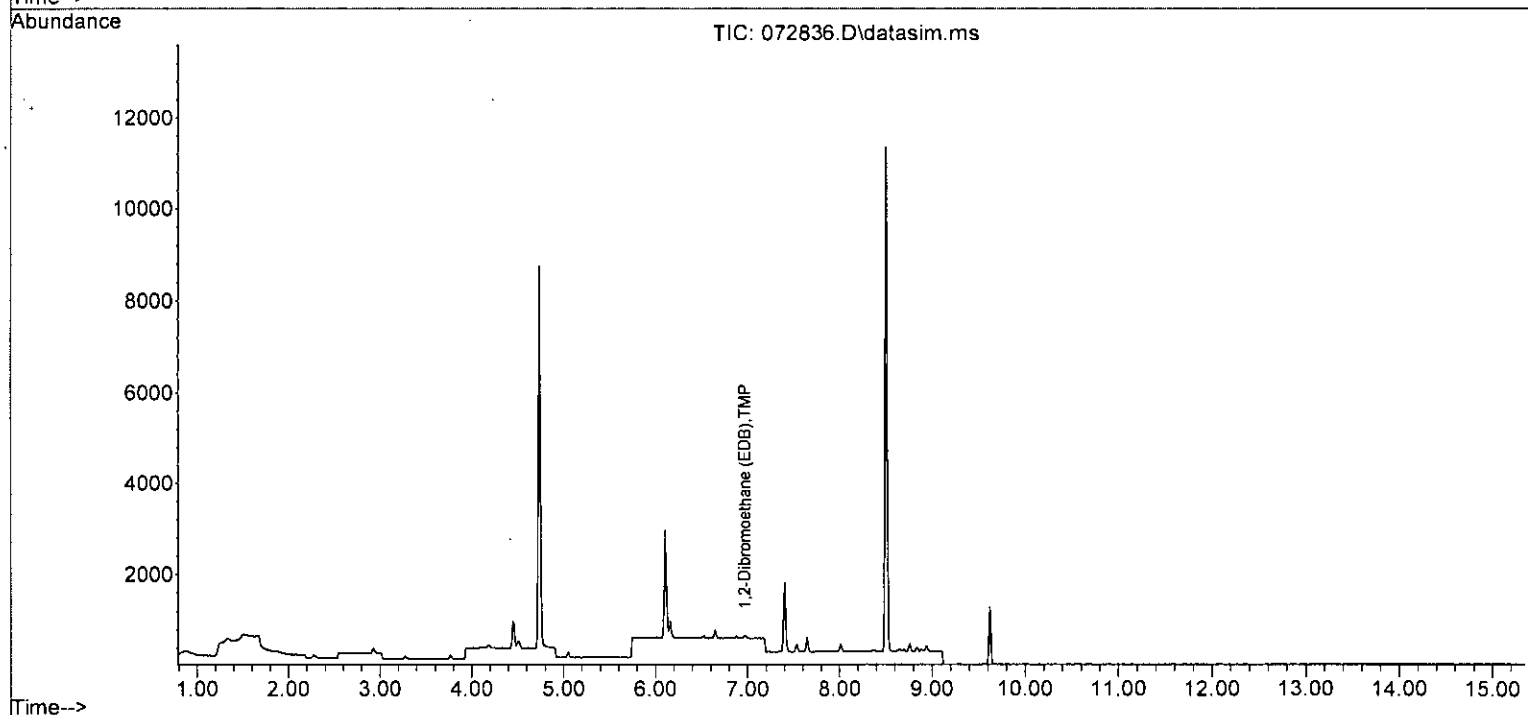
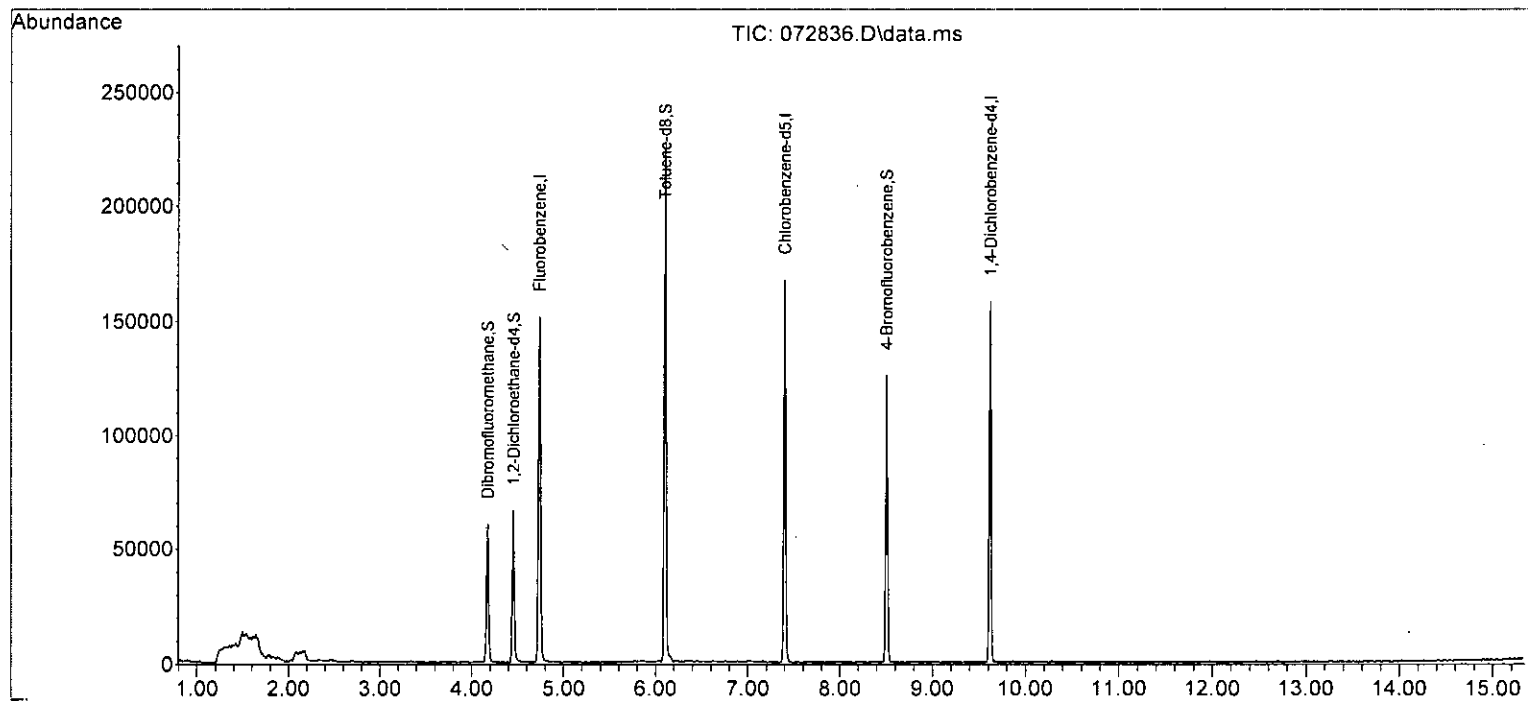
Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40) Toluene	0.00		0		N.D. d	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	0.00		0		N.D. d	
46) Dibromochloromethane	0.00		0		N.D.	
47] 1,2-Dibromoethane (EDB)	6.97	107	63	0.010	ppb	77
48) Chlorobenzene	0.00		0		N.D.	
49) Ethylbenzene	0.00		0		N.D. d	
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51) m,p-Xylene	0.00		0		N.D. d	
52) o-Xylene	0.00		0		N.D. d	
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S Dibromofluoromethane	10.000	9.144	8.6	100	0.01
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP Vinyl chloride	-1.000	0.000	0.0	0	-1.32#
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP 1,1-Dichloroethene	-1.000	0.000	0.0	0	-2.26#
13 TMP Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-2.92#
17 TMP trans-1,2-Dichloroethene	-1.000	0.000	0.0	0	-2.91#
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP 1,1-Dichloroethane	-1.000	0.000	0.0	0	-3.27#
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP cis-1,2-Dichloroethene	-1.000	0.000	0.0	0	-3.76#
23 TMP Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP 1,2-Dichloroethane (EDC)	-1.000	0.000	0.0	0	-4.51#
27 TMP 1,1,1-Trichloroethane	-1.000	0.000	0.0	0	-4.19#
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S 1,2-Dichloroethane-d4	10.000	9.060	9.4	100	0.00
31 TMP Benzene	-1.000	0.000	0.0	0	-4.49#
32 TMP Trichloroethene	-1.000	0.000	0.0	0	-5.04#
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S Toluene-d8	10.000	8.948	10.5	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	-1.000	0.000	0.0	0	-6.16#
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP 1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-6.64#
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.010	0.010	0.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	-1.000	0.000	0.0	0	-7.54#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51 TMP m,p-Xylene	-1.000	0.000	0.0	0	-7.64#
52 TMP o-Xylene	-1.000	0.000	0.0	0	-8.01#
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.130	-1.3	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.69#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.248	8.5	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.000#	100.0#	0#	-1.32#
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.000#	100.0#	0#	-2.26#
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.000#	100.0#	0#	-2.92#
17 TMP	trans-1,2-Dichloroethene	0.282	0.000#	100.0#	0#	-2.91#
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.000#	100.0#	0#	-3.27#
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.000#	100.0#	0#	-3.76#
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.000#	100.0#	0#	-4.51#
27 TMP	1,1,1-Trichloroethane	0.406	0.000#	100.0#	0#	-4.19#
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.054	10.0	100	0.00
31 TMP	Benzene	1.042	0.000#	100.0#	0#	-4.49#
32 TMP	Trichloroethene	0.326	0.000#	100.0#	0#	-5.04#
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	0.994	10.5	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	0.000#	100.0#	0#	-6.16#
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072836.D  
 Acq On : 28 Jul 2023 09:02 pm  
 Operator : MD  
 Sample : 0.01 ppb 8260 ICAL 69-198e  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:22:58 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.000#	100.0#	0#	-6.64#
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.803	-71.2#	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	0.000#	100.0#	0#	-7.54#
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.000#	100.0#	0#	-7.64#
52 TMP o-Xylene	0.606	0.000#	100.0#	0#	-8.01#
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.912	-1.2	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.000#	100.0#	0#	-8.69#
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

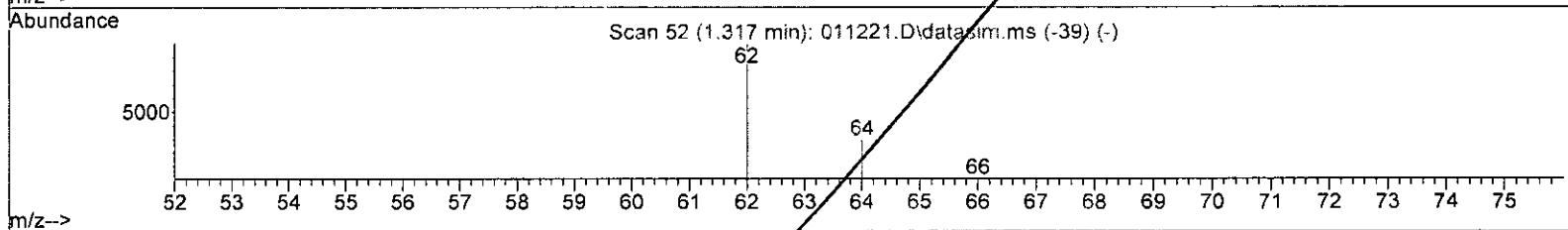
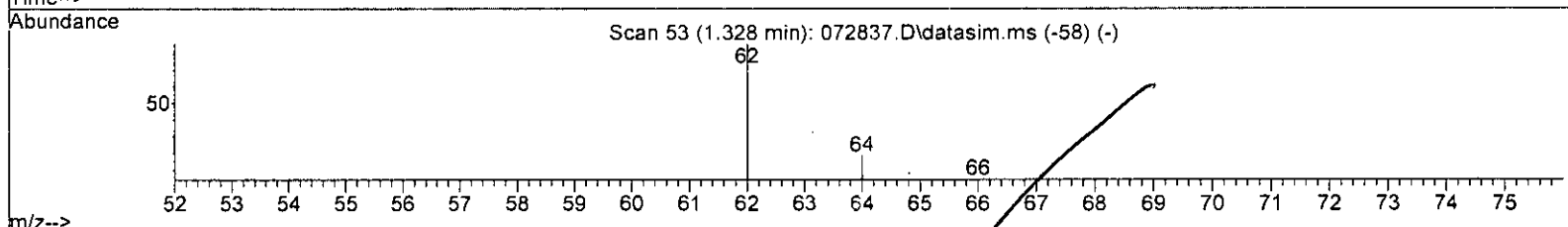
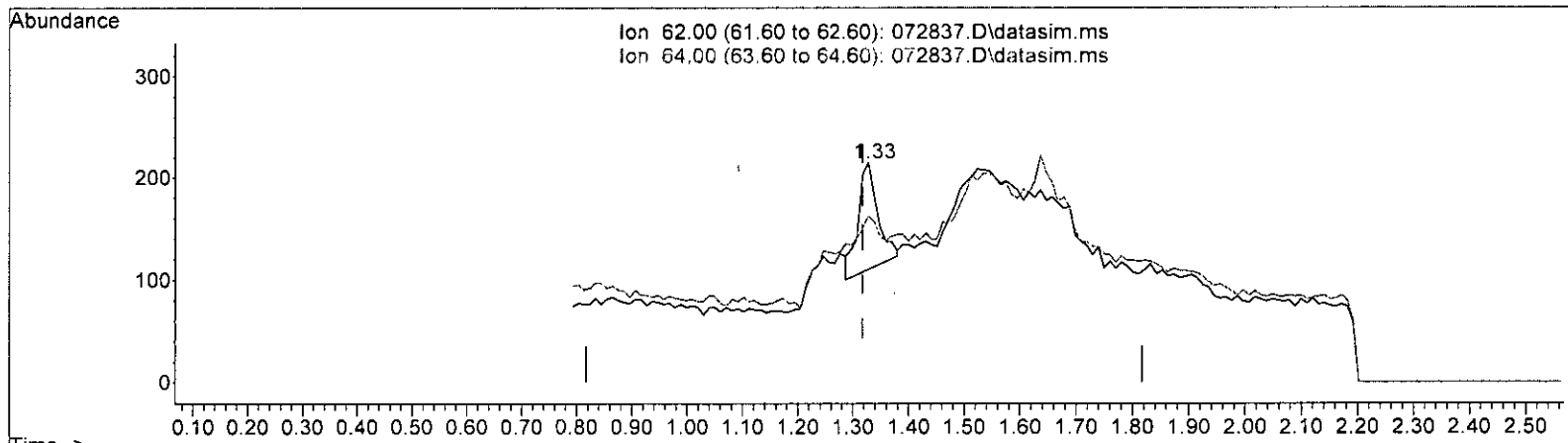
(#) = Out of Range

SPCC's out = 67 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.032 ppb

response 258

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	29.67
0.00	0.00	0.00
0.00	0.00	0.00

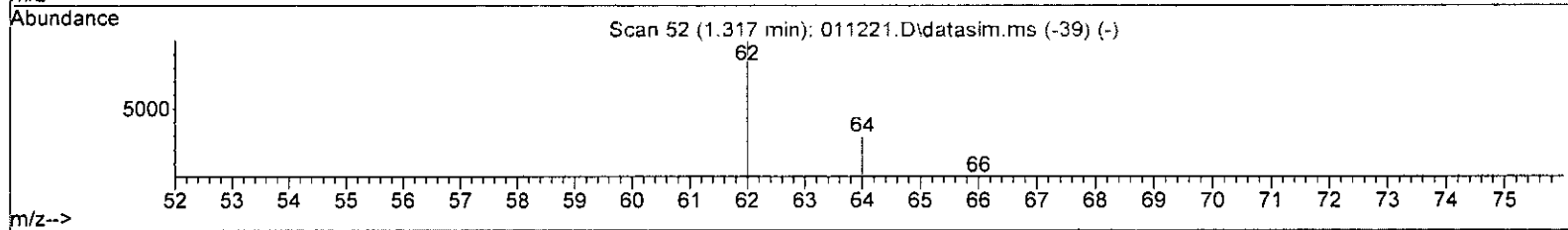
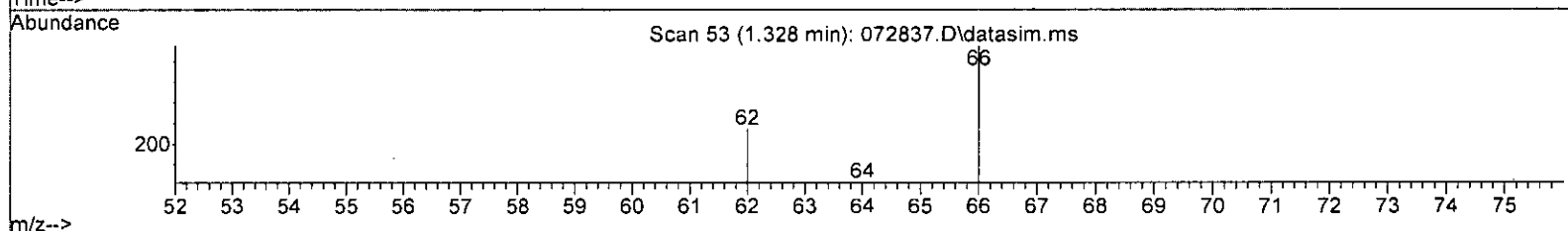
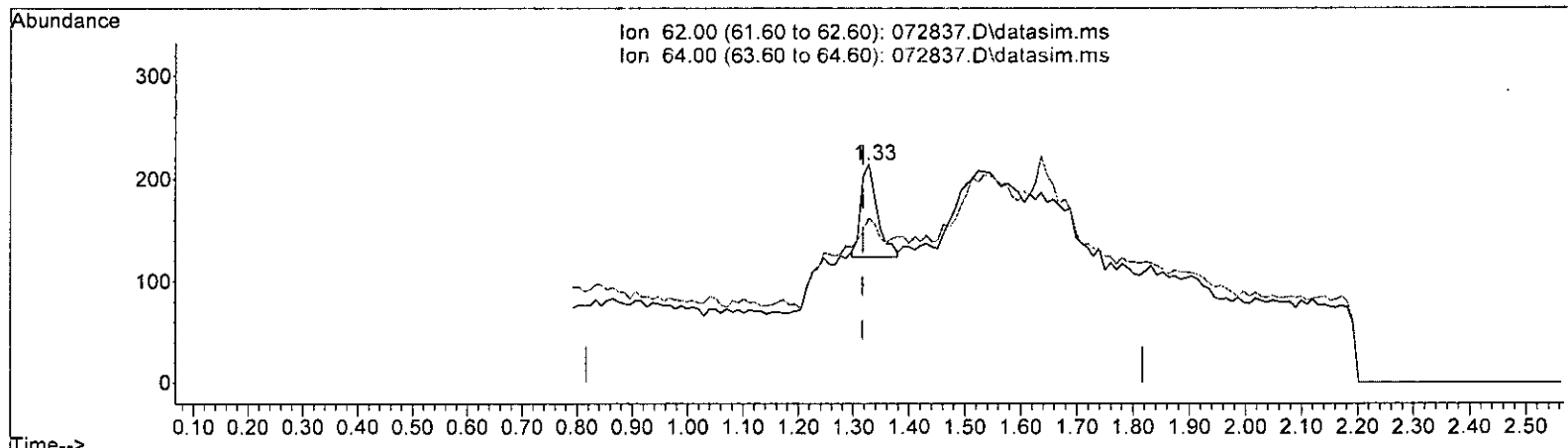
m 7/29



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.023 ppb m

response 185

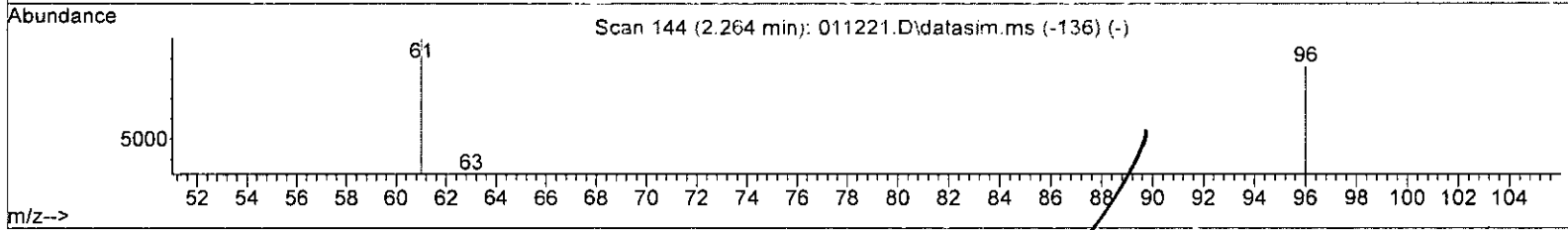
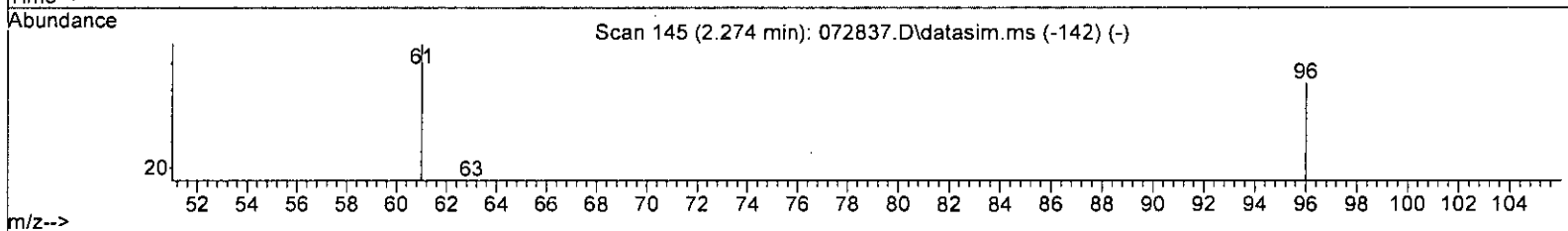
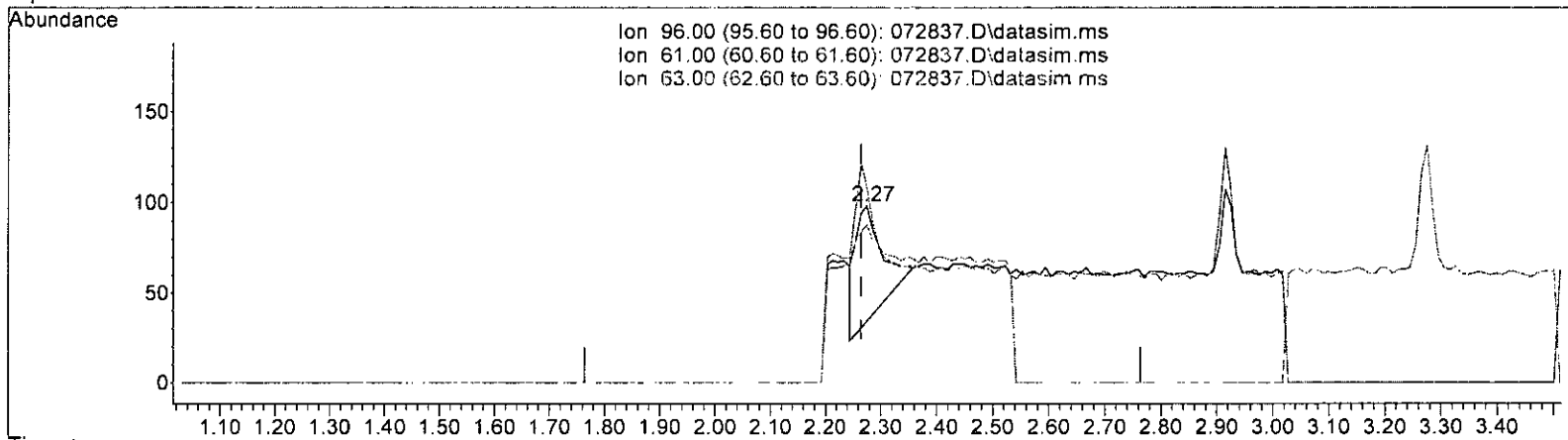
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	75.70#
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.067 ppb

response 215

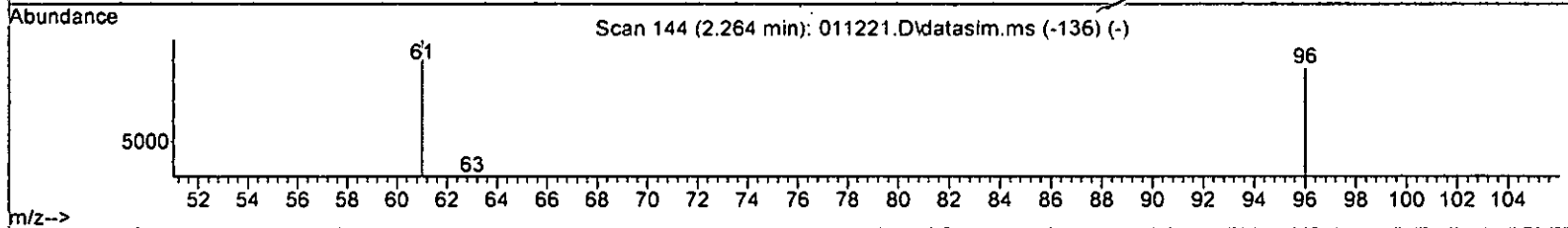
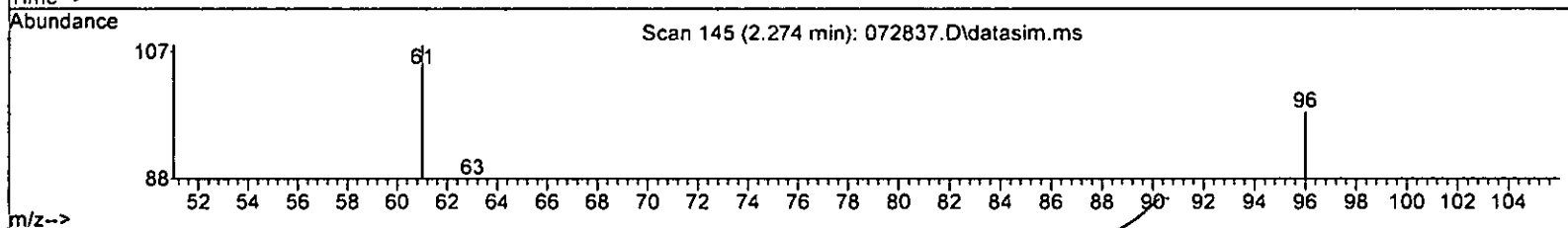
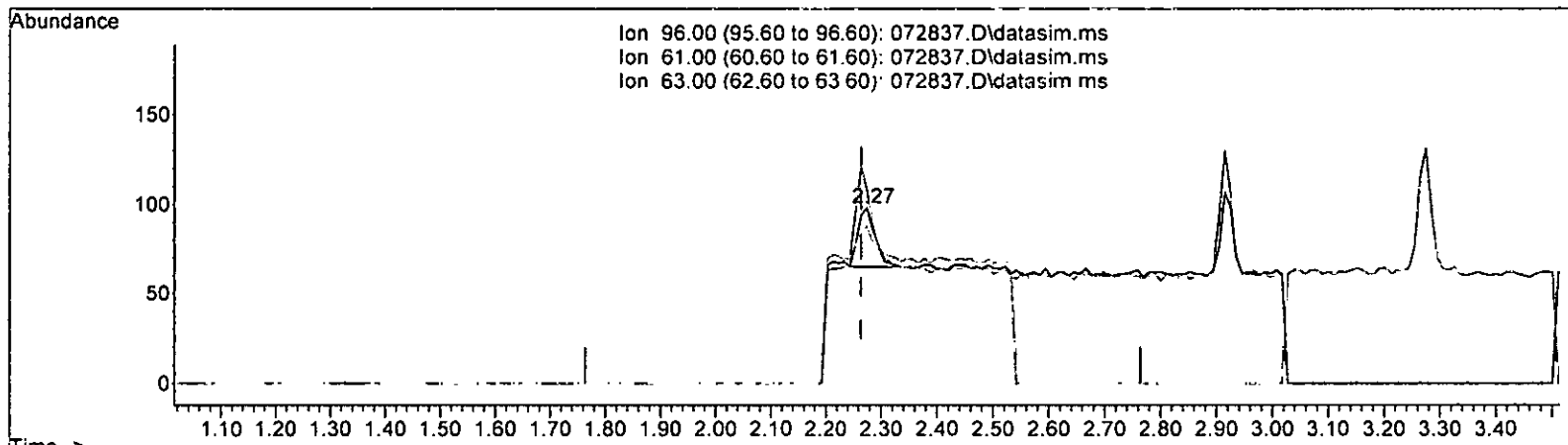
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	123.53#
63.00	54.90	55.88
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.015 ppb m

response 70

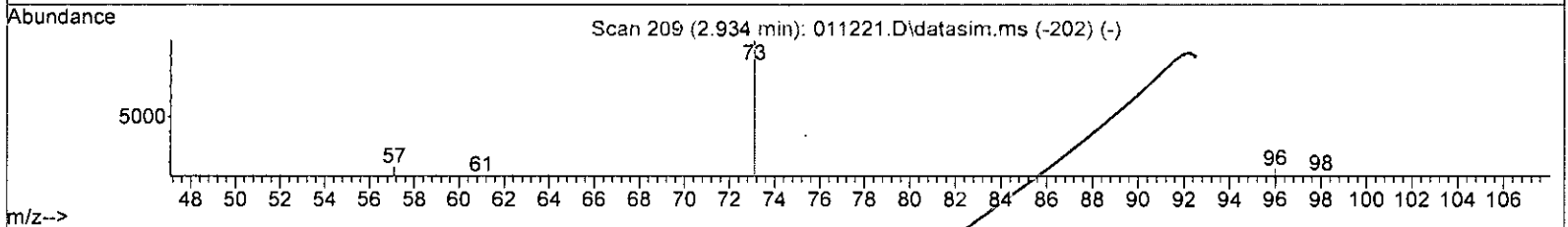
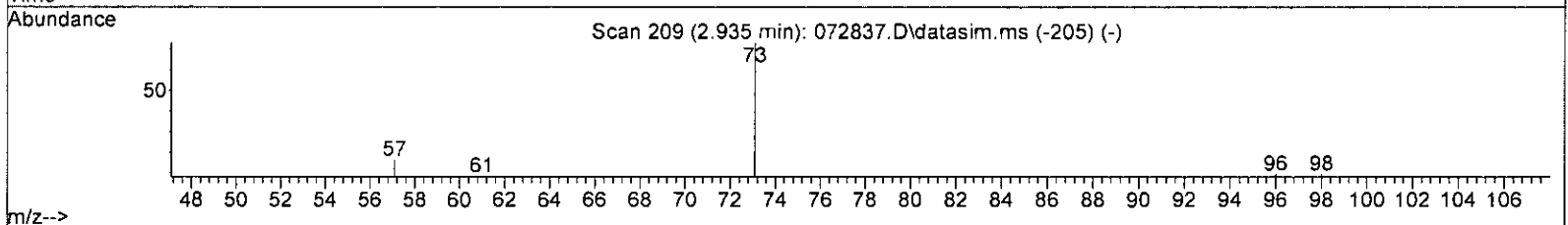
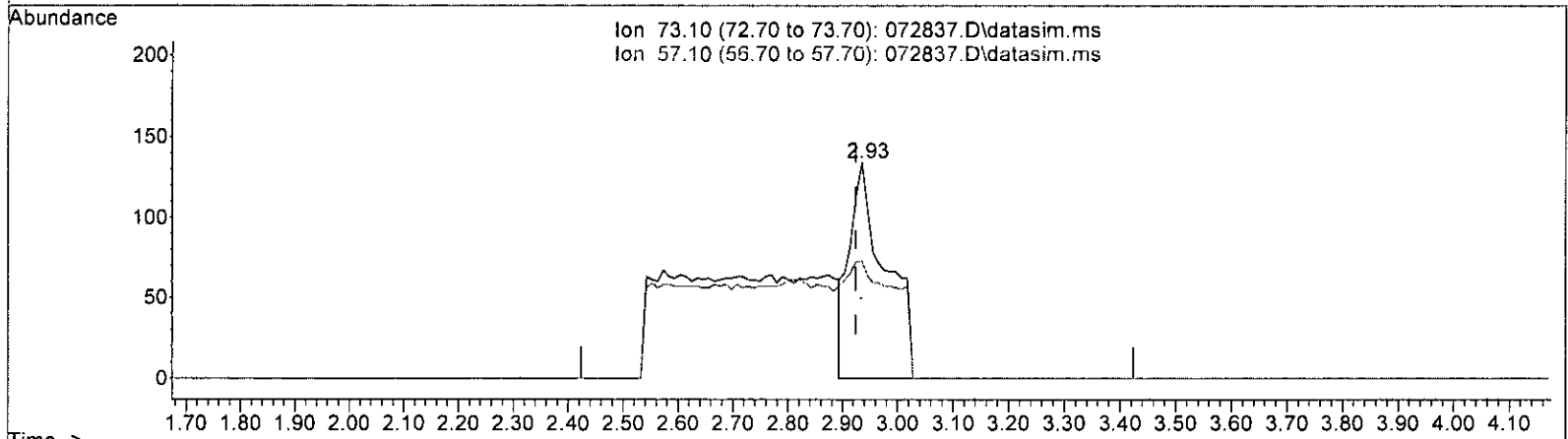
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	110.20#
63.00	54.90	89.80#
0.00	0.00	0.00

7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

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

2.935min (+ 0.011) 0.092 ppb

response 601

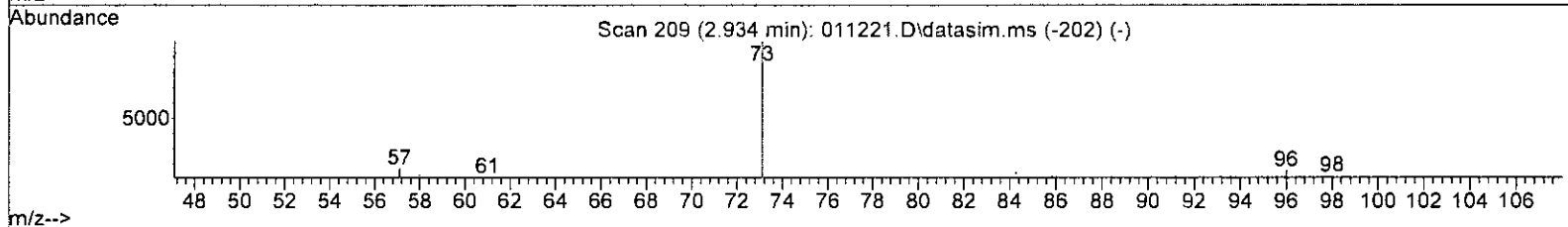
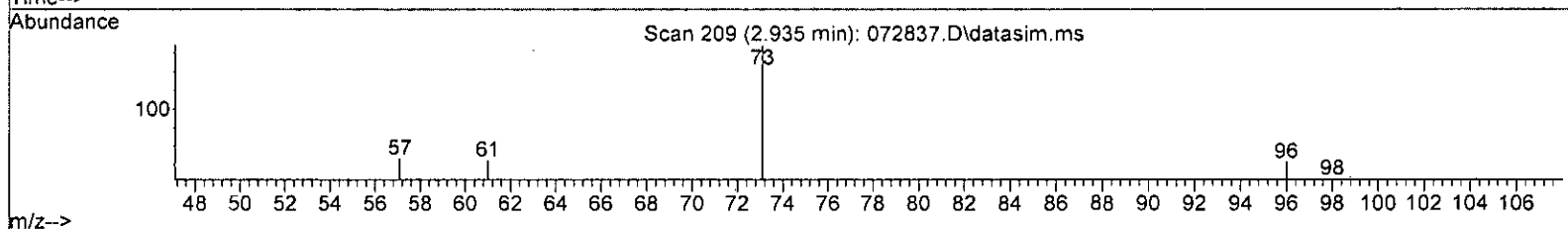
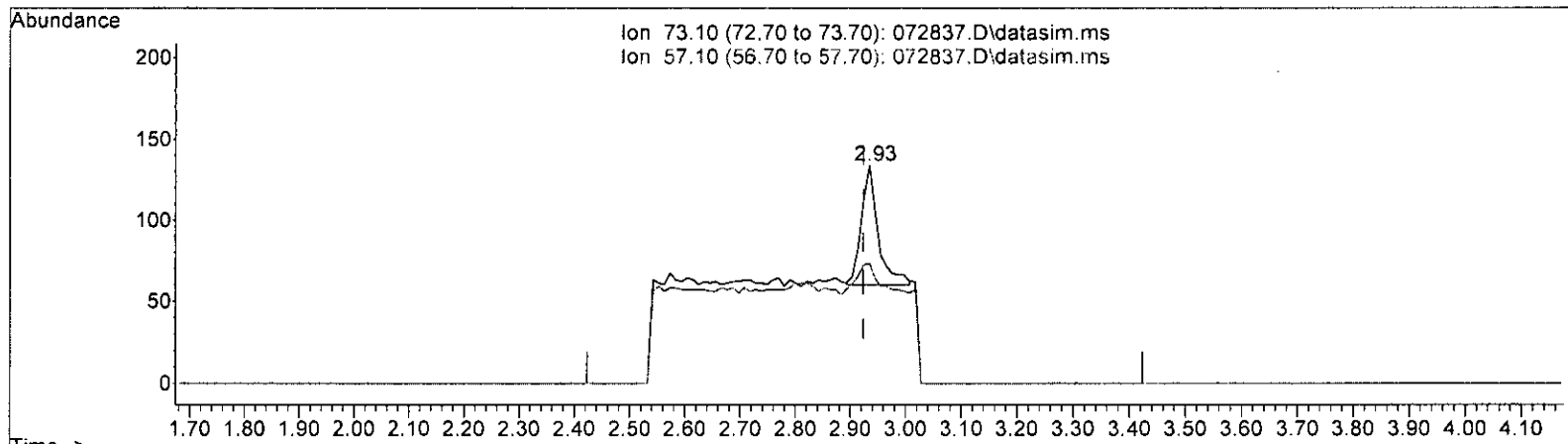
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	54.48
0.00	0.00	0.00
0.00	0.00	0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

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

2.935min (+ 0.011) 0.024 ppb m

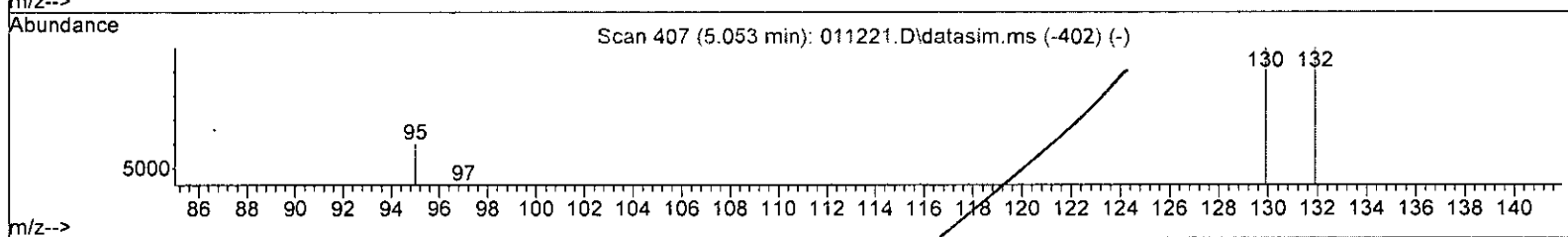
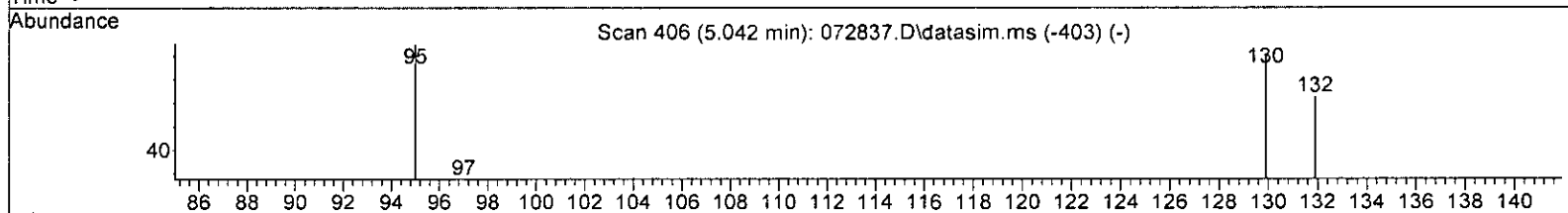
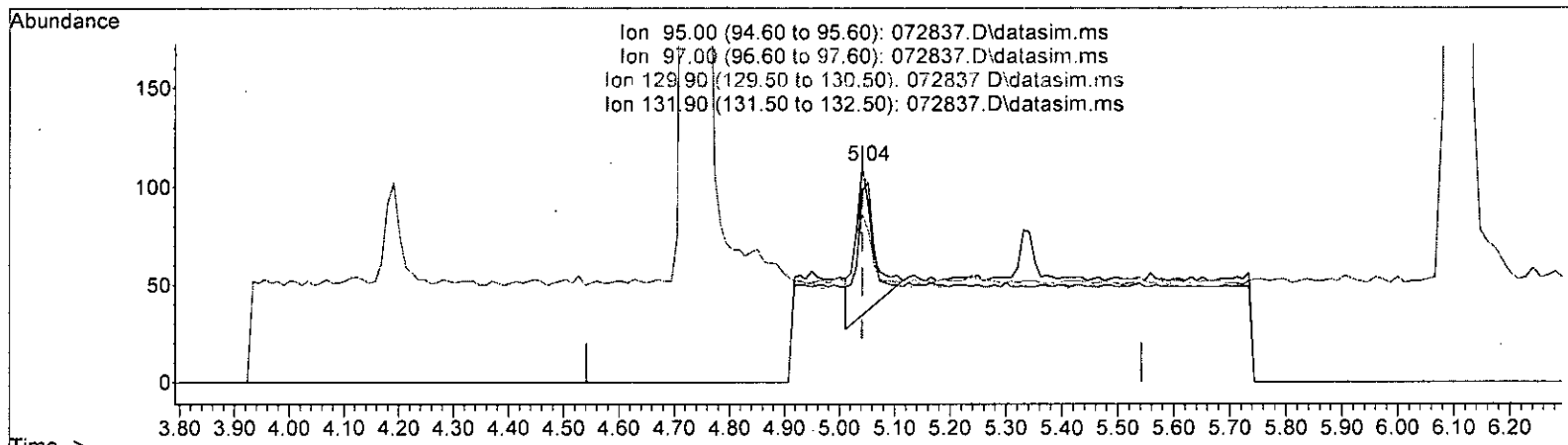
response	154	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	54.48
0.00	0.00	0.00
0.00	0.00	0.00

m 7/20

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.042 ppb

response 172

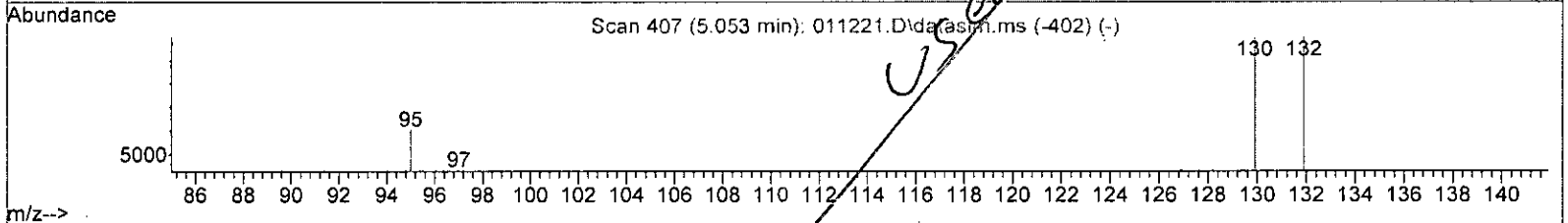
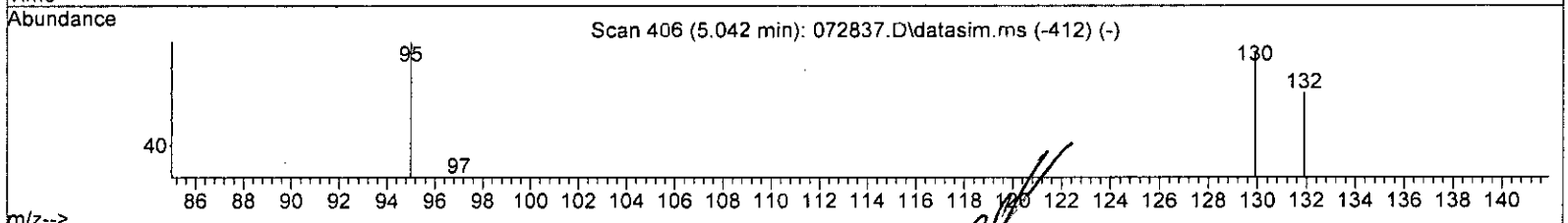
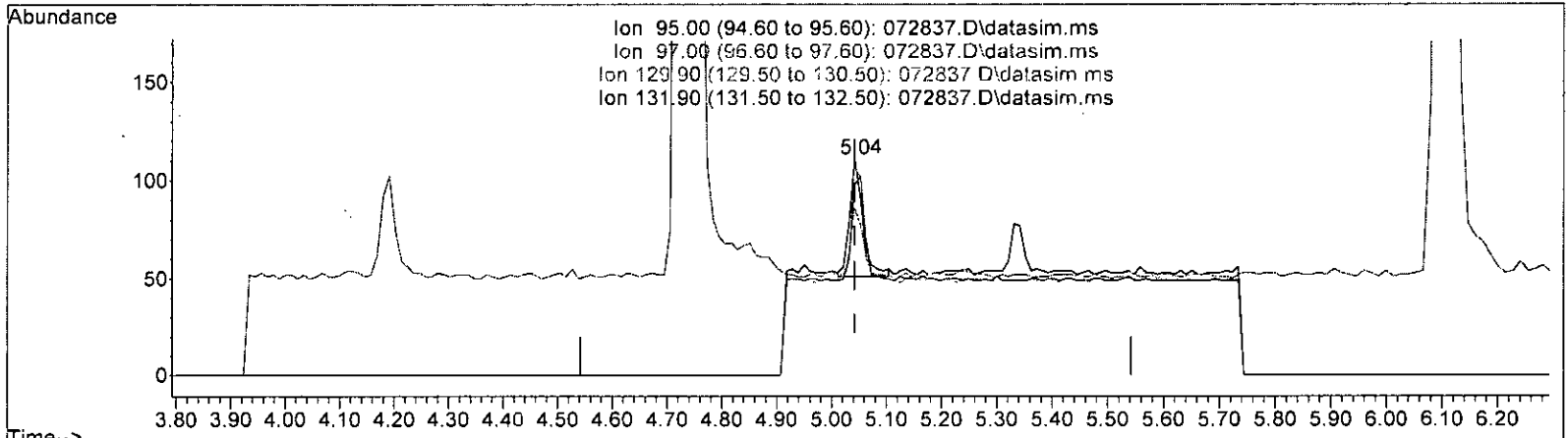
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	59.32
129.90	98.60	94.92
131.90	86.60	83.05

M 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072837.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.018 ppb m

response	100	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	77.48
129.90	98.60	95.50
131.90	86.60	88.29

7/29

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	103848	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	79424	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37411	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	28543	10.129	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%
30) 1,2-Dichloroethane-d4	4.45	102	6452	10.339	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	103.40%
35) Toluene-d8	6.10	98	117679	10.199	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.00%
57) 4-Bromofluorobenzene	8.50	95	33144	9.836	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.33	62	185m	0.023	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.27	96	70m	0.015	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	154m	0.024	ppb	
17] trans-1,2-Dichloroethene	2.91	96	73	0.011	ppb	89
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.27	63	127	0.025	ppb	97
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	79	0.026	ppb	94
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.52	62	178	0.012	ppb	91
27] 1,1,1-Trichloroethane	4.19	97	97	0.023	ppb	95
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	283	0.017	ppb	91
32] Trichloroethene	5.04	95	100m	0.018	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

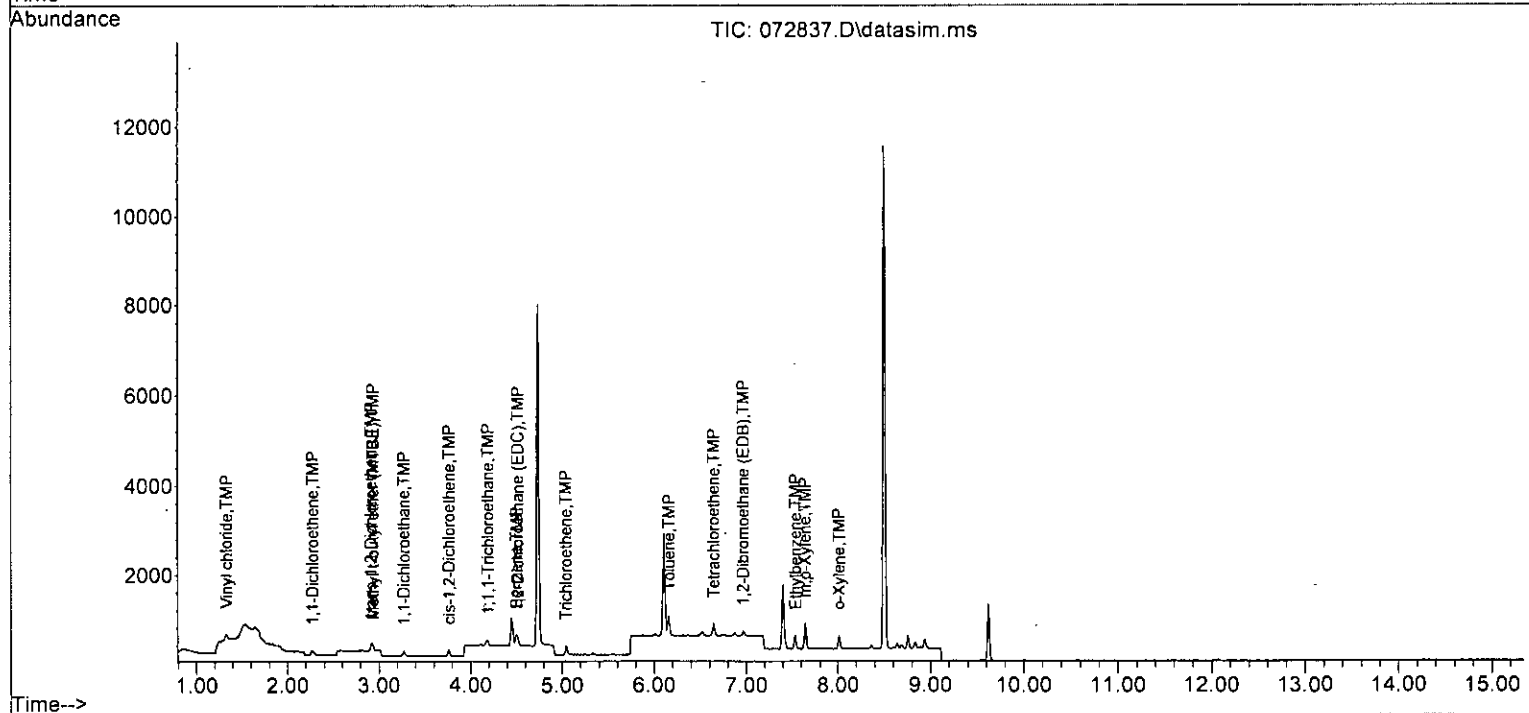
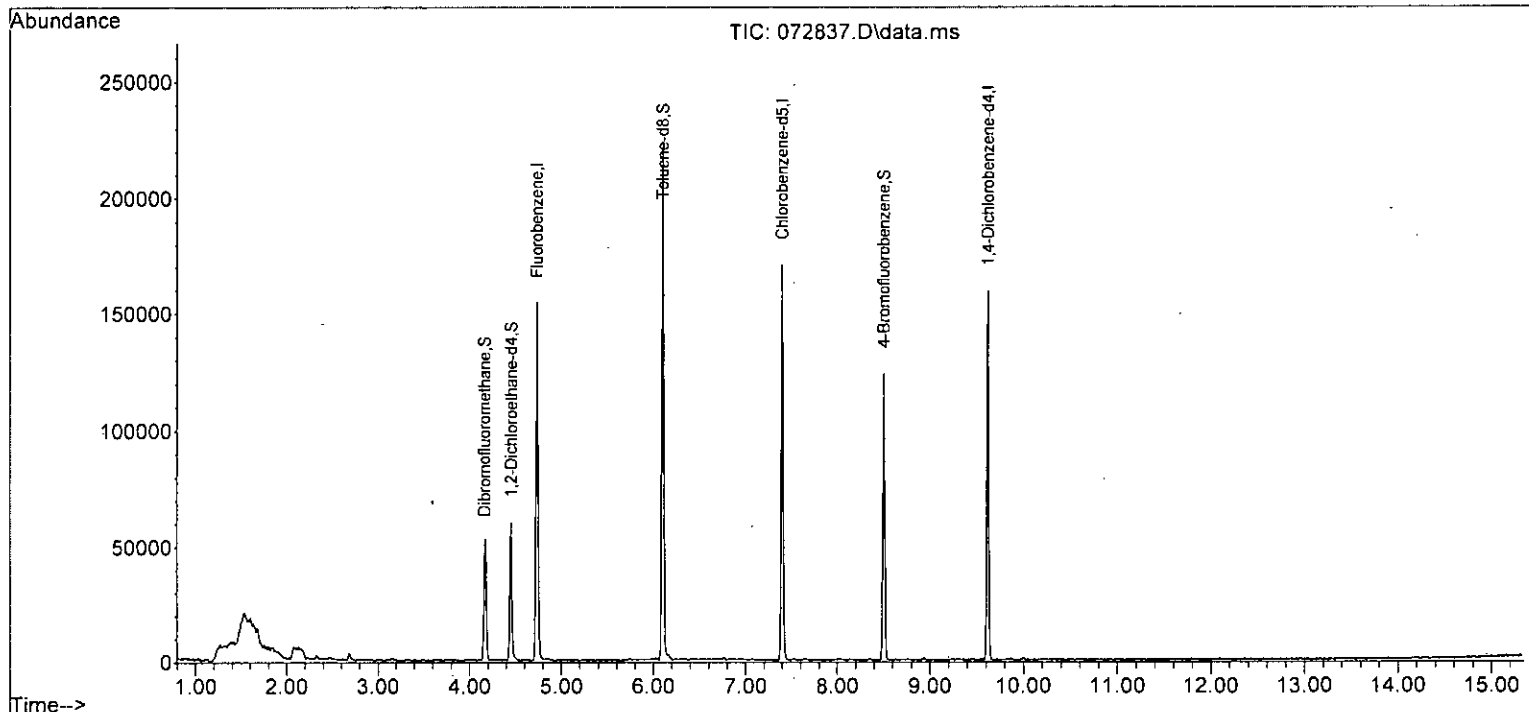
Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40] Toluene	6.16	92	240	0.014	ppb	90
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D. d	
45] Tetrachloroethene	6.64	164	122	0.018	ppb	95
46) Dibromochloromethane	0.00		0		N.D.	
47] 1,2-Dibromoethane (EDB)	6.97	107	92	0.018	ppb	92
48) Chlorobenzene	0.00		0		N.D. d	
49] Ethylbenzene	7.54	91	336	0.015	ppb	94
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	267	0.031	ppb	93
52] o-Xylene	8.01	106	122	0.017	ppb	97
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S	Dibromofluoromethane	10.000	10.129	-1.3	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.020	0.023	-15.0	93	0.01
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.020	0.015	25.0#	100	0.01
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.020	0.024	-20.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.020	0.011	45.0#	100	0.00
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.020	0.025	-25.0#	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.020	0.026	-30.0#	100	0.01
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.020	0.012	40.0#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.020	0.023	-15.0	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S	1,2-Dichloroethane-d4	10.000	10.339	-3.4	100	0.00
31 TMP	Benzene	0.020	0.017	15.0	100	0.01
32 TMP	Trichloroethene	0.020	0.018	10.0	94	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S	Toluene-d8	10.000	10.199	-2.0	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.020	0.014	30.0#	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.020	0.018	10.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.018	10.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.020	0.015	25.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51 TMP m,p-Xylene	0.040	0.031	22.5#	100	0.00
52 TMP o-Xylene	0.020	0.017	15.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.836	1.6	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.69#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.275	-1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.891	-15.9	93	0.01
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.337	-17.0	100	0.01
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.741	-18.2	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.351	-24.5#	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.611	-25.7#	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.380	-31.5#	100	0.01
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.857	-85.5#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.467	-15.0	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	1.042	1.363	-30.8#	100	0.01
32 TMP	Trichloroethene	0.326	0.481	-47.5#	94	0.00
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	1.133	-2.0	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.511	-38.4#	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072837.D  
 Acq On : 28 Jul 2023 09:26 pm  
 Operator : MD  
 Sample : 0.02 ppb 8260 ICAL 69-198f  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:02 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.768	-72.2#	100	0.00
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.579	-23.5#	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	2.115	-31.4#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.840	-33.3#	100	0.00
52 TMP o-Xylene	0.606	0.768	-26.7#	100	0.00
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.886	1.7	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.000#	100.0#	0#	-8.69#
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

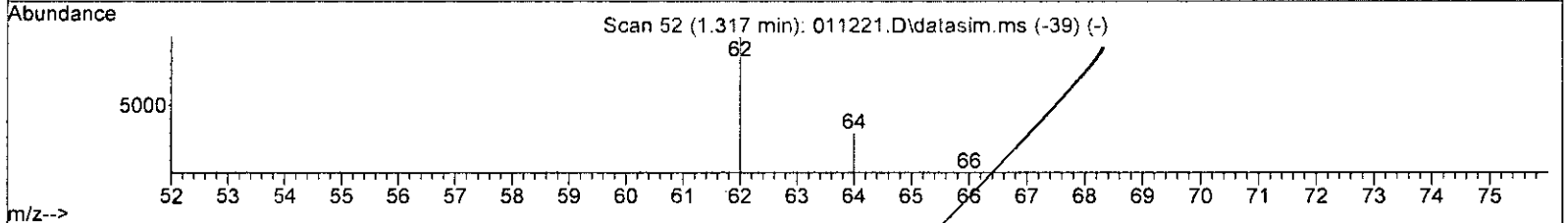
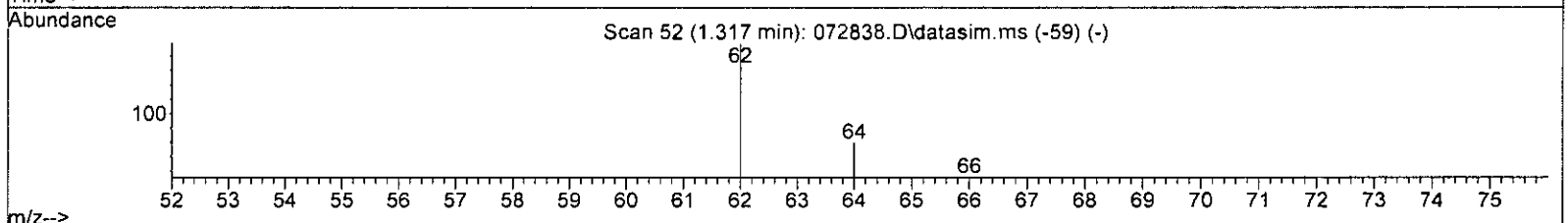
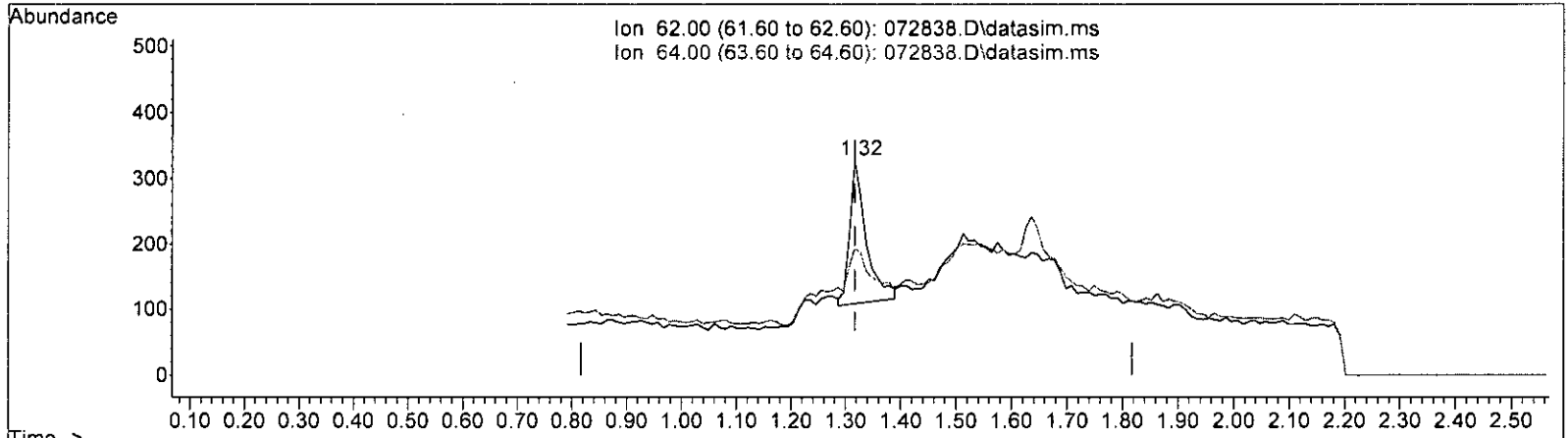
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260.ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

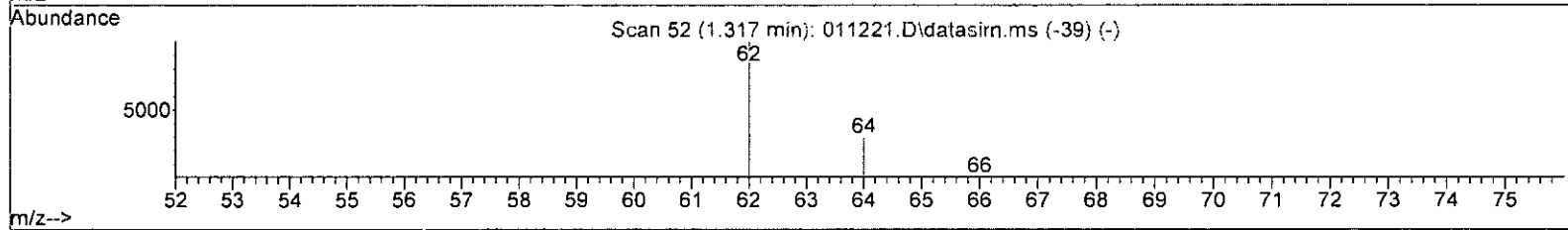
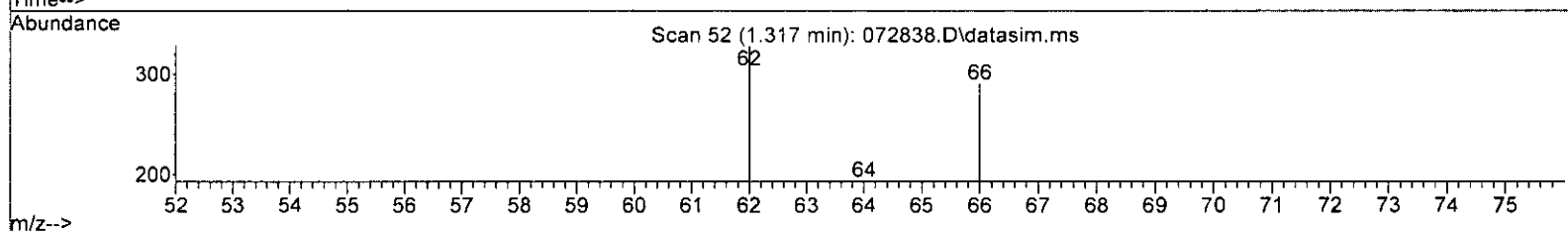
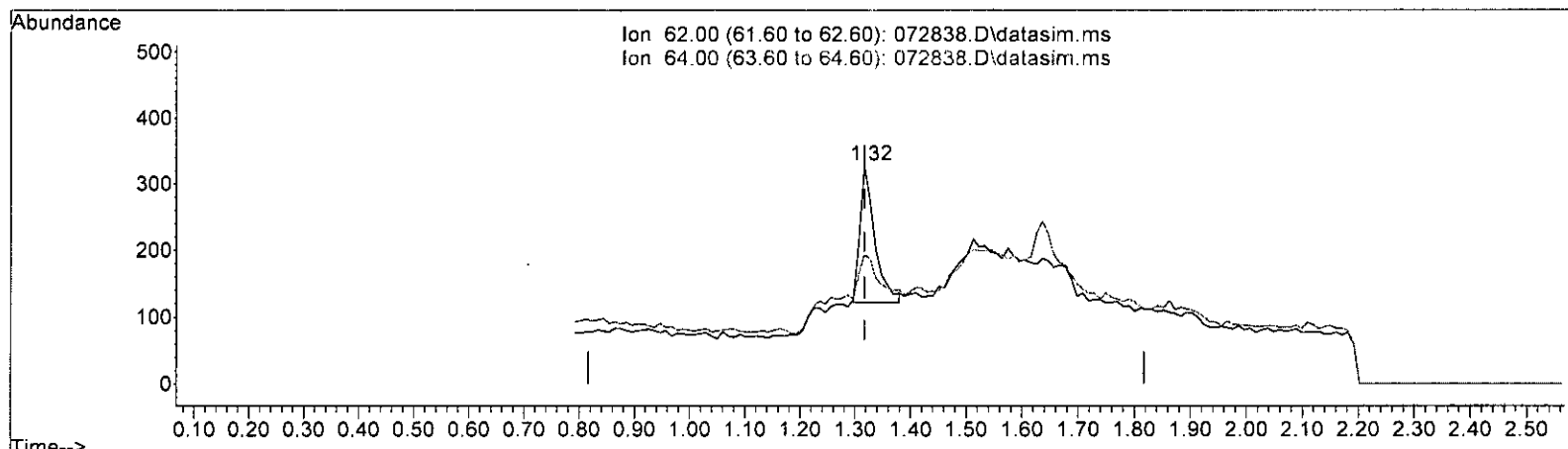
*m 7/29*

(6) Vinyl chloride (TMP)		
1.317min (+ 0.000)	0.056 ppb	
response	460	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	28.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(6) Vinyl chloride (TMP) *ms 7/29*

1.317min (+ 0.000) 0.047 ppb m

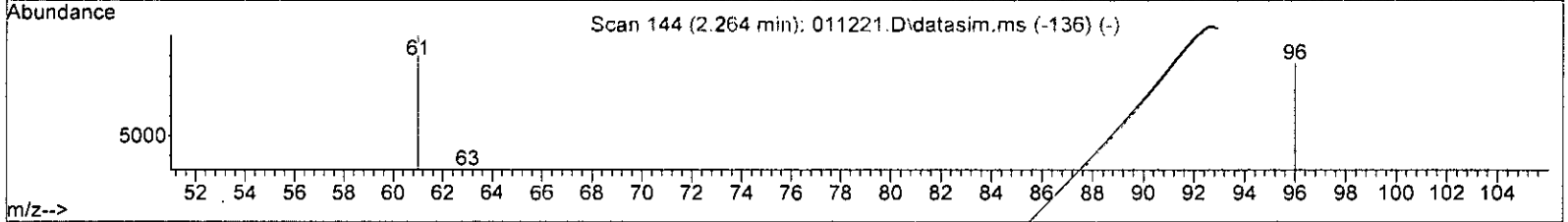
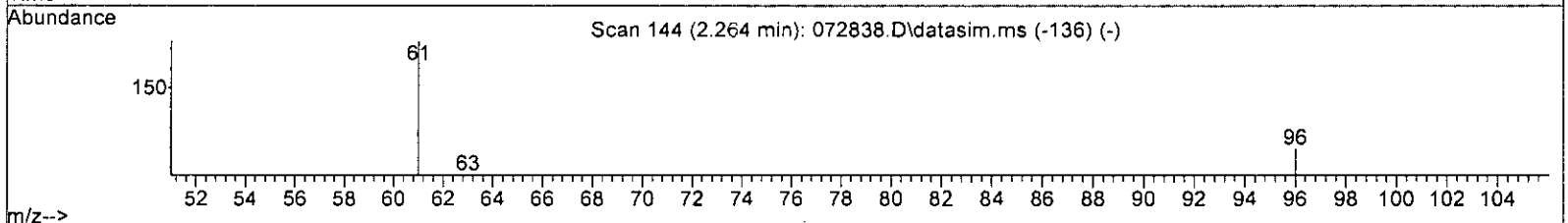
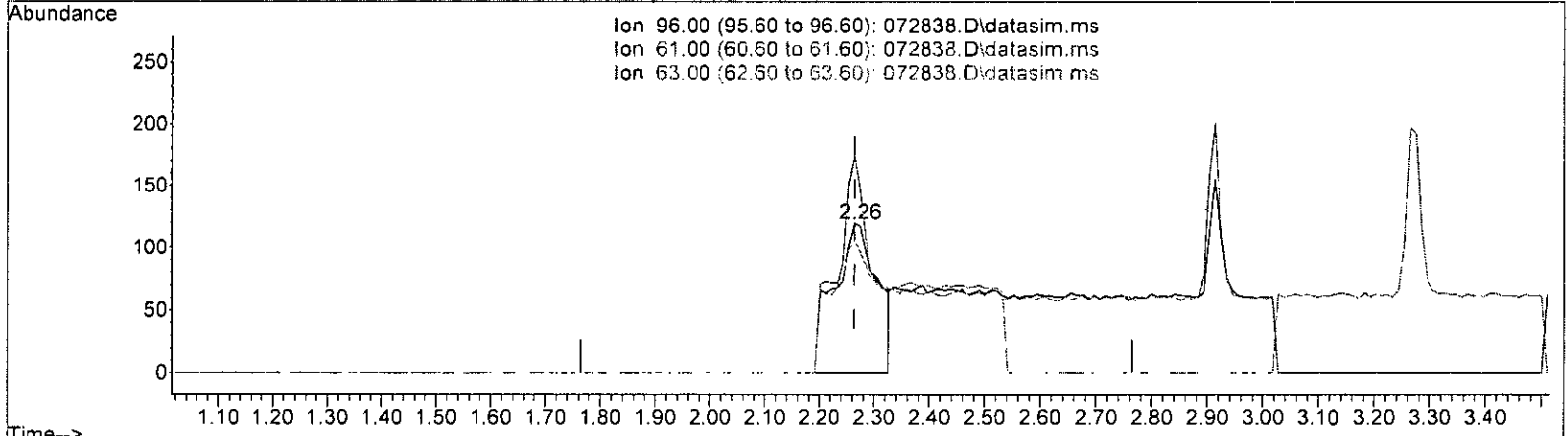
response	381	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	58.84
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (-0.000) 0.219 ppb

response 656

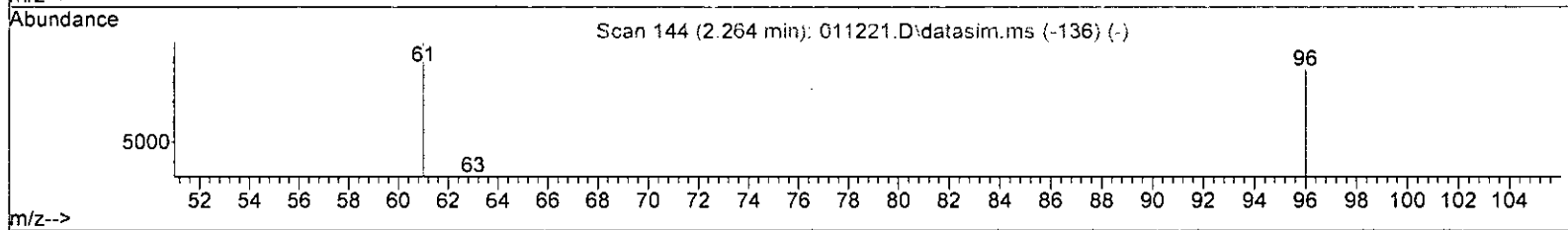
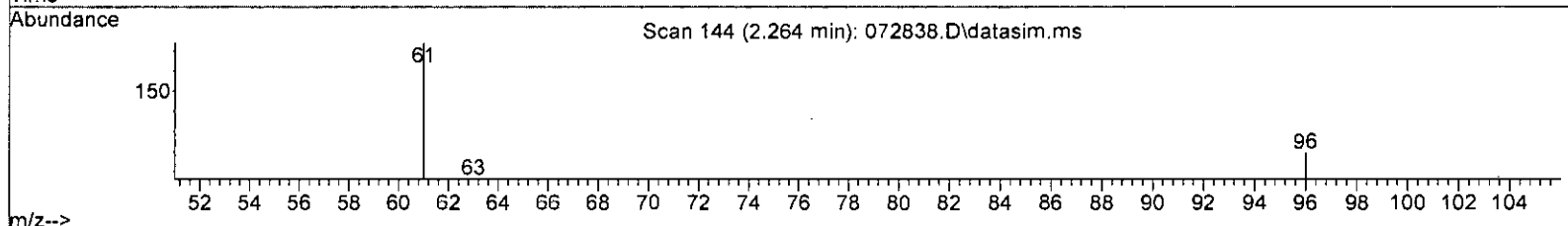
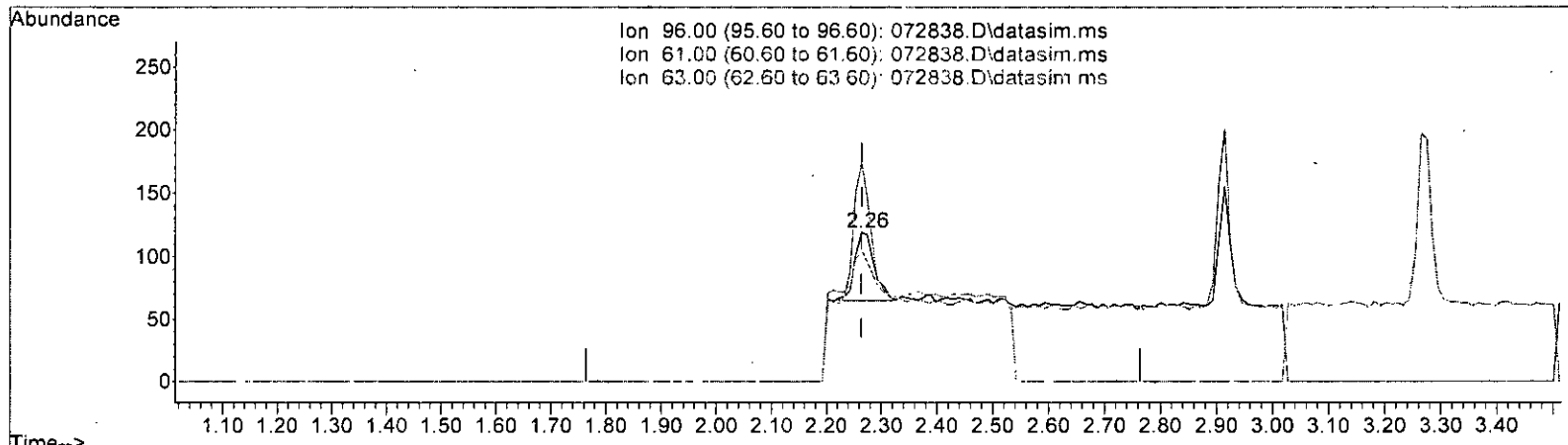
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	146.22
63.00	54.90	89.08#
0.00	0.00	0.00

*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.264min (-0.000) 0.036 ppb m

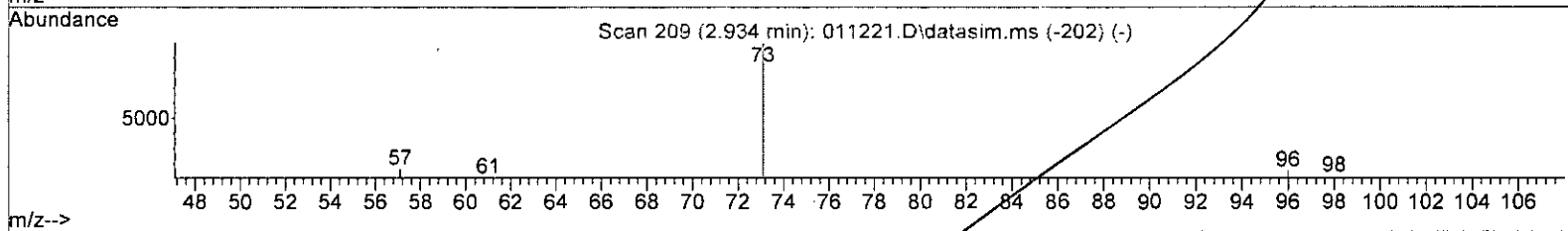
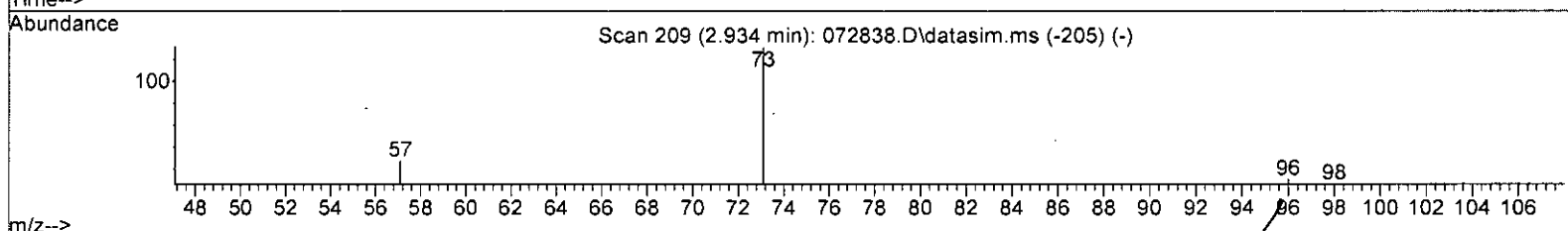
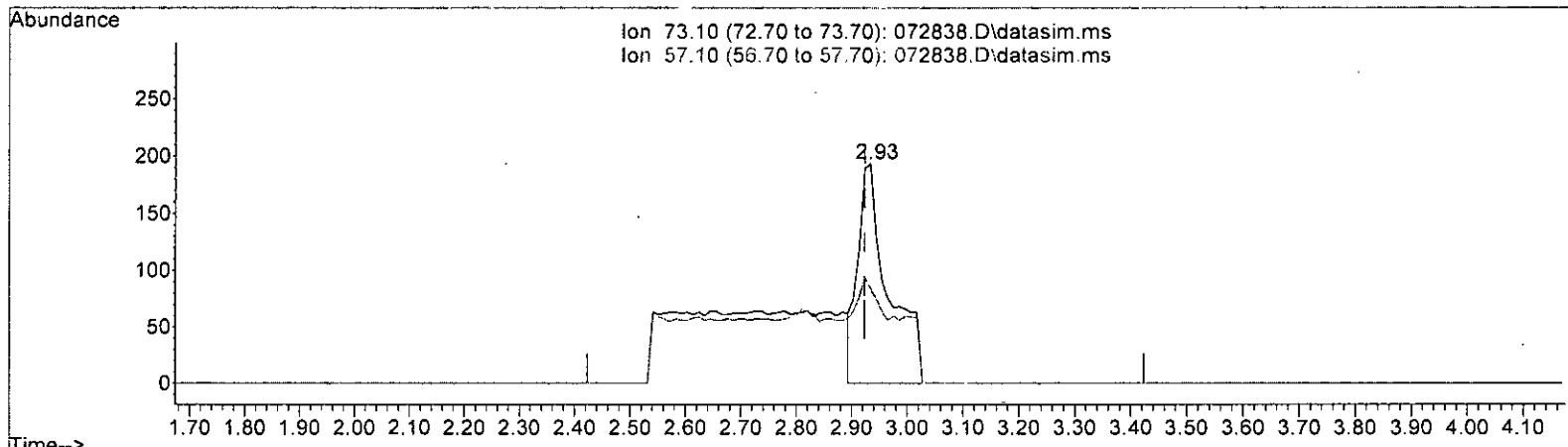
response	132
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 146.22
63.00	54.90 89.08#
0.00	0.00 0.00

W 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

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

2.934min (+ 0.010) 0.111 ppb

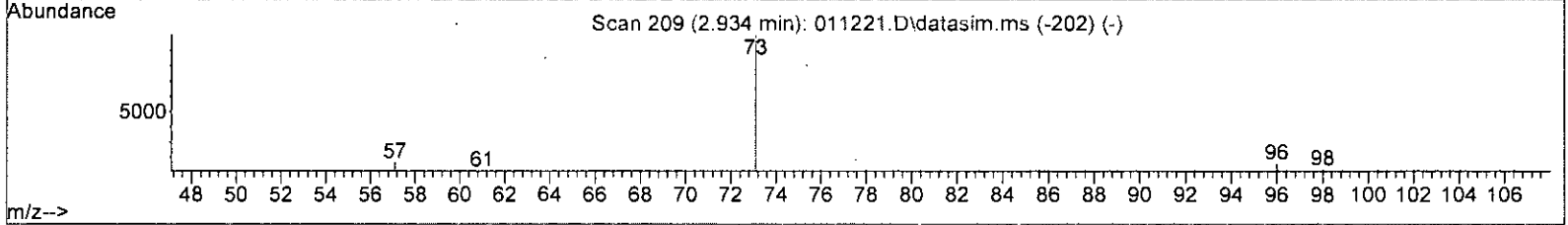
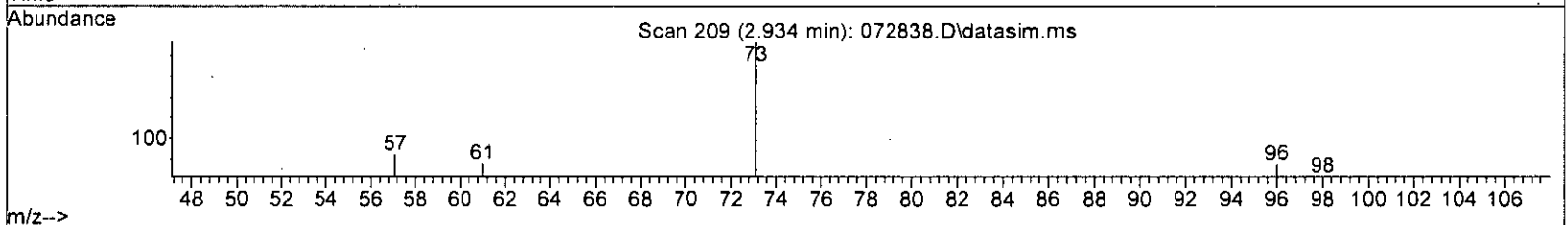
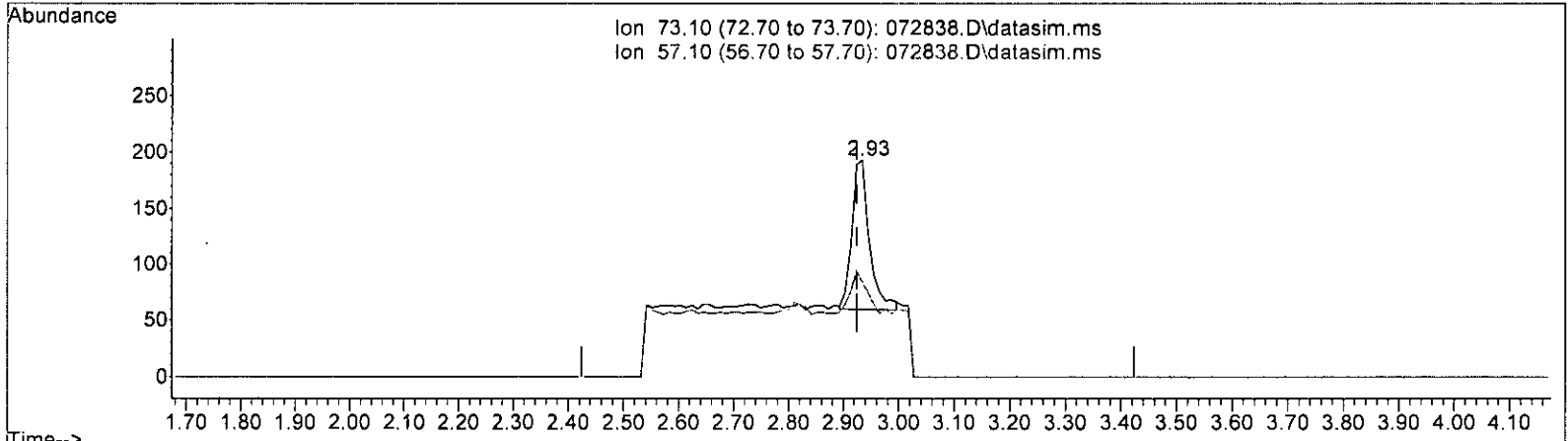
response	740	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	43.52
0.00	0.00	0.00
0.00	0.00	0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

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

2.934min (+ 0.010) 0.044 ppb m

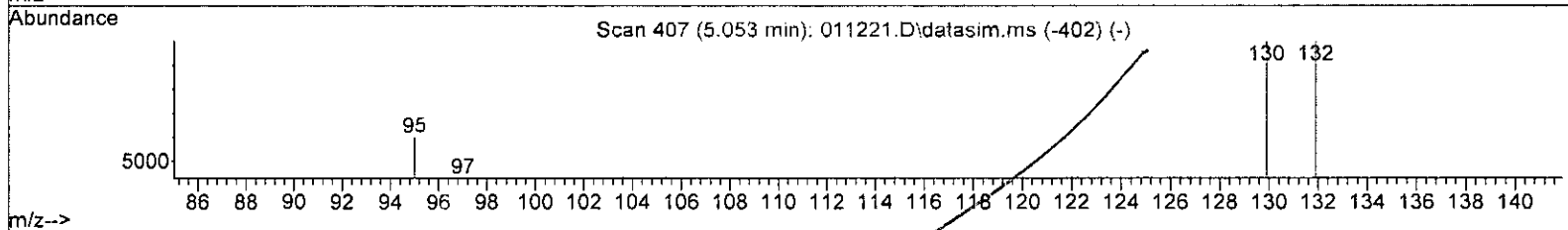
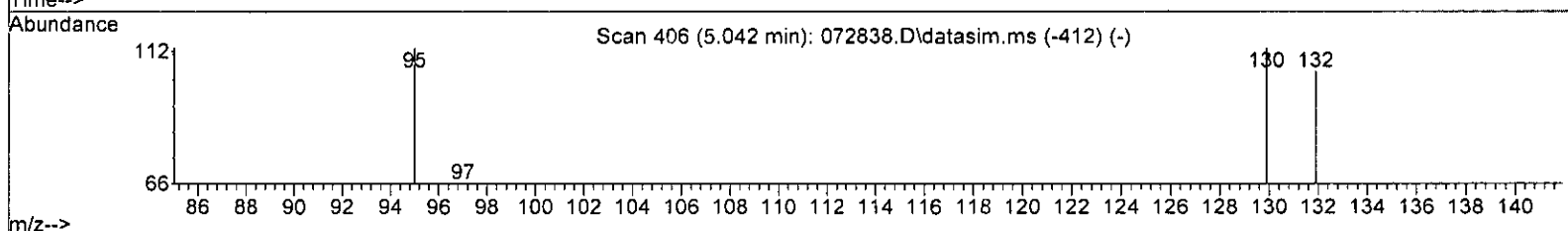
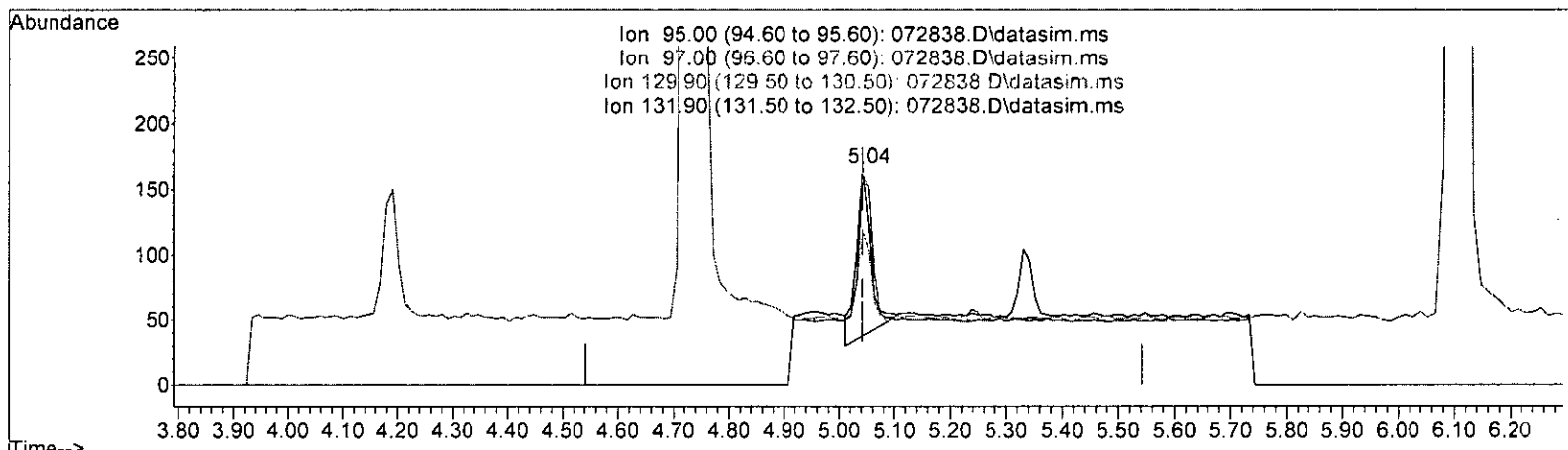
*m 7/29*

response	293
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 43.52
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(32) Trichloroethene (TMP)  
 5.042min (+ 0.000) 0.059 ppb

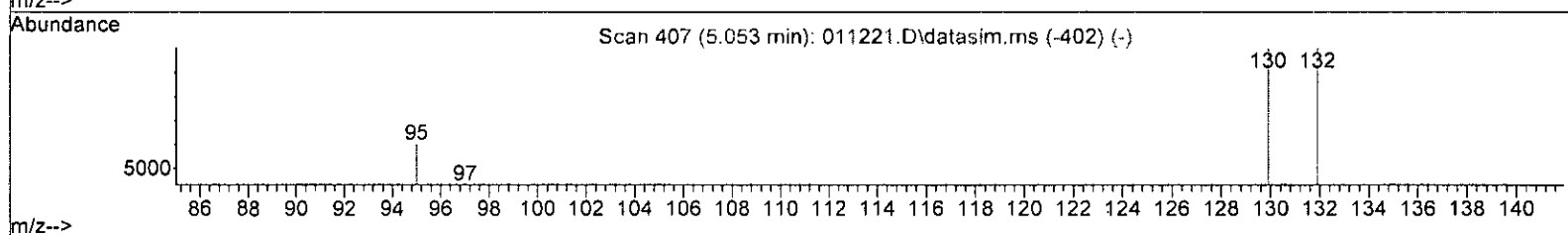
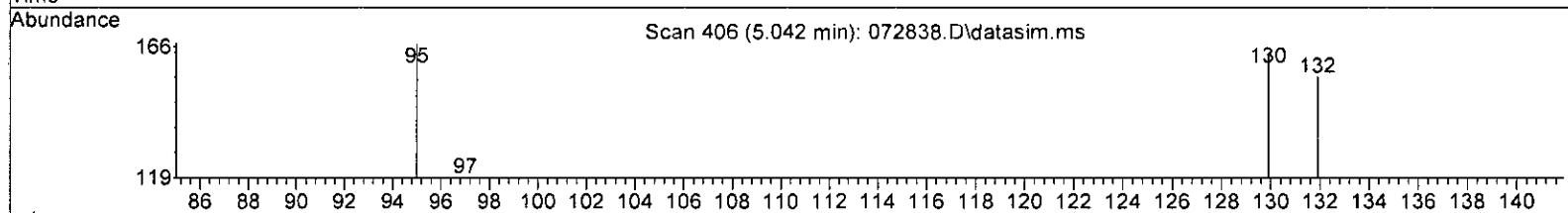
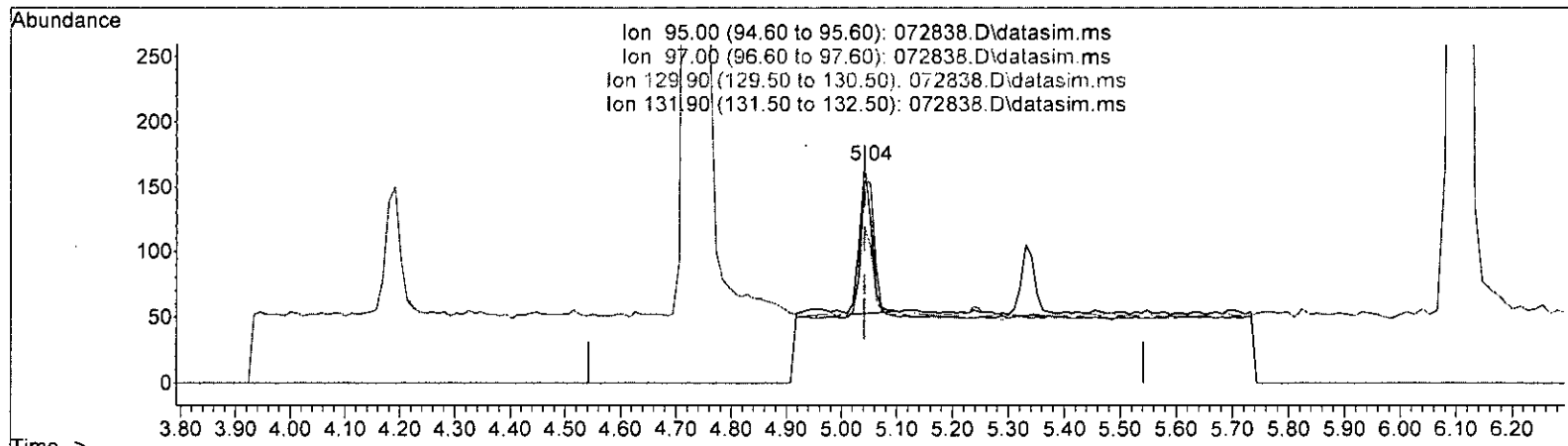
response	230	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	59.65
129.90	98.60	99.12
131.90	86.60	92.11

*v 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072838.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.038 ppb m

response 165

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	71.26
129.90	98.60	97.60
131.90	86.60	92.81

*m 7/29*

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	106121	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	79209	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36554	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	28291	9.825	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.20%	
30) 1,2-Dichloroethane-d4	4.45	102	6455	10.123	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	101.20%	
35) Toluene-d8	6.10	98	116473	9.879	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	98.80%	
57) 4-Bromofluorobenzene	8.50	95	33679	10.229	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	102.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.	d		
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.32	62	381m	0.047	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	132m	0.036	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	293m	0.044	ppb		
17] trans-1,2-Dichloroethene	2.91	96	141	0.036	ppb		91
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.26	63	246	0.048	ppb		90
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.76	96	145	0.047	ppb		87
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.52	62	336	0.051	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	177	0.041	ppb		96
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.49	78	557	0.043	ppb		86
32] Trichloroethene	5.04	95	165m	0.038	ppb		
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

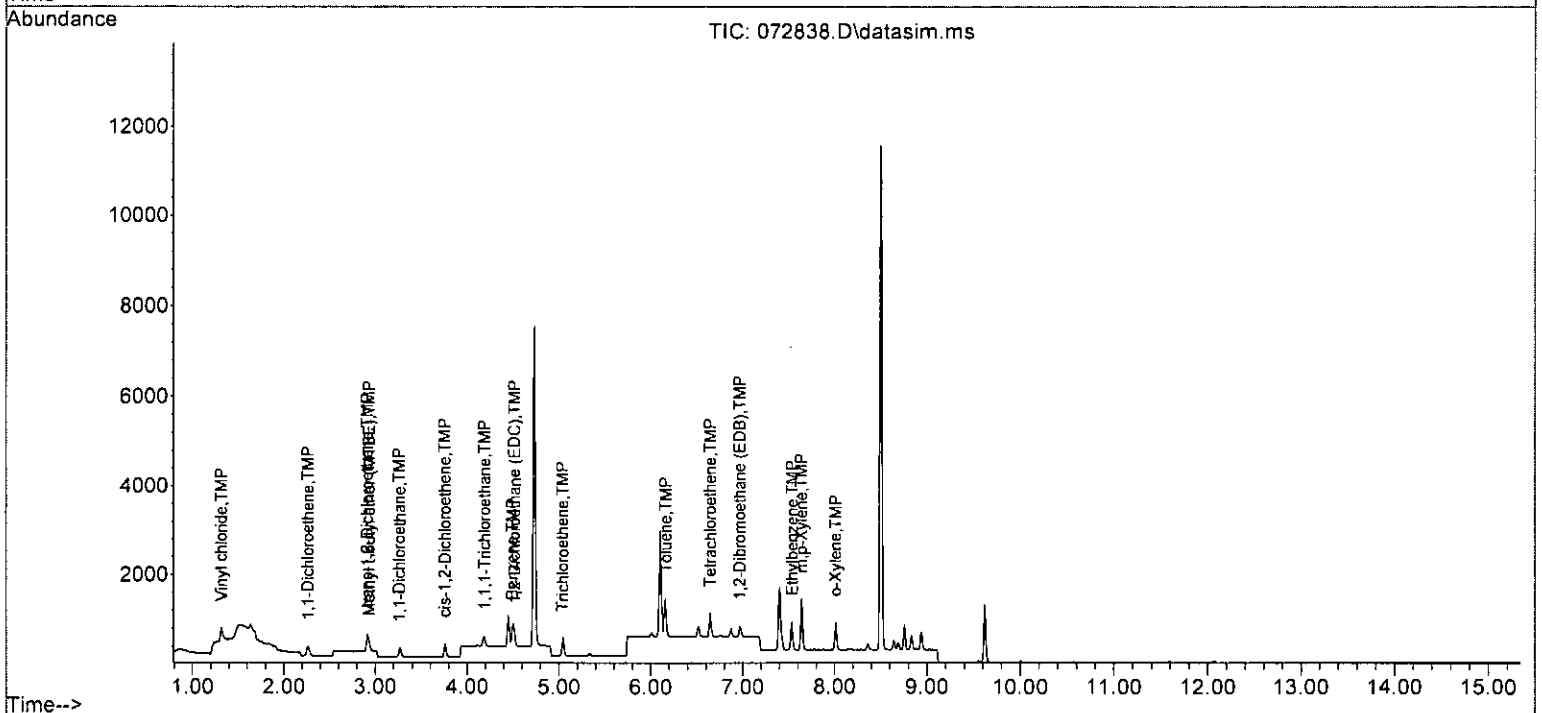
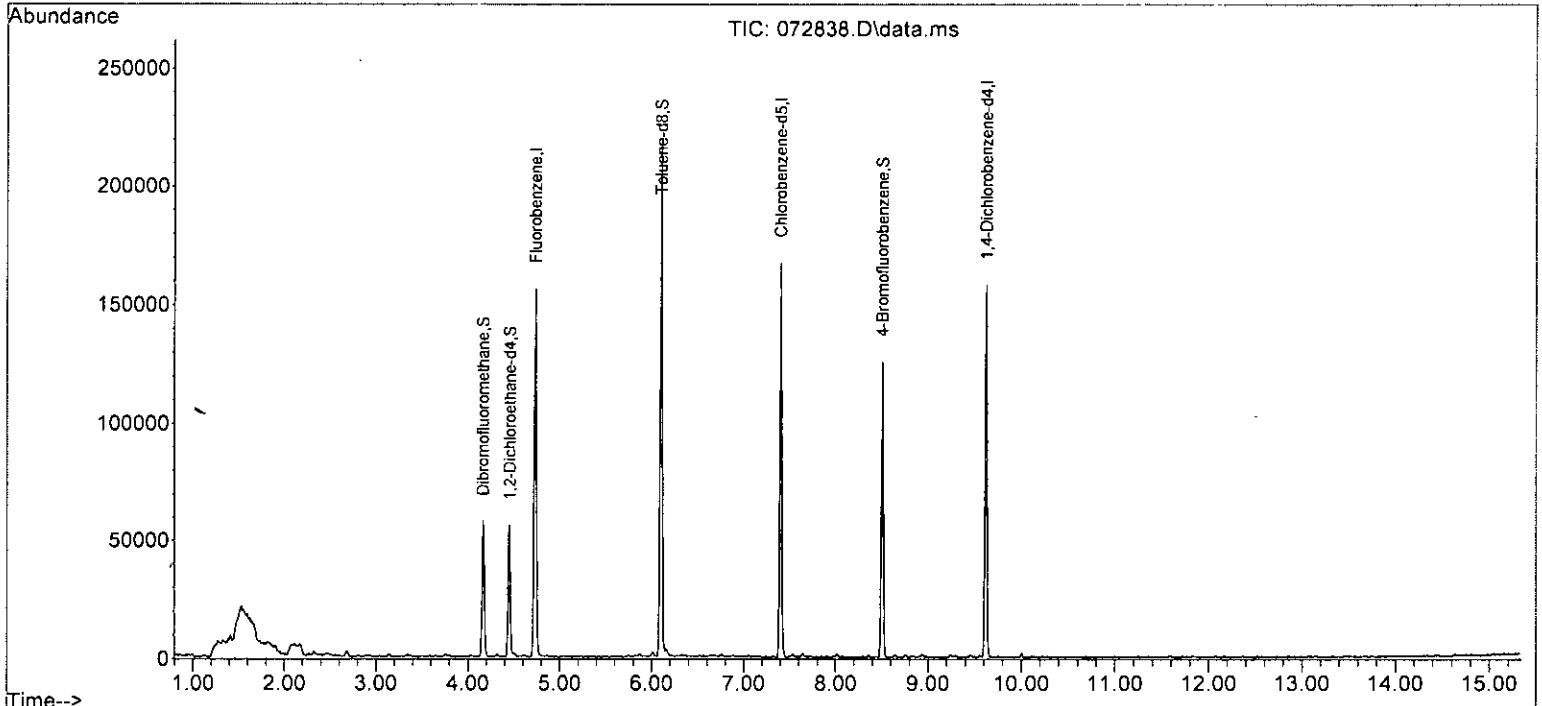
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.16	92	463	0.043	ppb	90
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.64	164	183	0.038	ppb	95
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.97	107	189	0.048	ppb	100
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.54	91	650	0.042	ppb	97
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.64	106	507	0.084	ppb	100
52] o-Xylene	8.01	106	239	0.043	ppb	99
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
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 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S	Dibromofluoromethane	10.000	9.825	1.8	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.040	0.047	-17.5	95	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.040	0.036	10.0	91	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.040	0.044	-10.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.040	0.036	10.0	100	0.00
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.040	0.048	-20.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.040	0.047	-17.5	100	0.00
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.040	0.051	-27.5#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.040	0.041	-2.5	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S	1,2-Dichloroethane-d4	10.000	10.123	-1.2	100	0.00
31 TMP	Benzene	0.040	0.043	-7.5	100	0.00
32 TMP	Trichloroethene	0.040	0.038	5.0	93	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S	Toluene-d8	10.000	9.879	1.2	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.040	0.043	-7.5	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45	TMP Tetrachloroethene	0.040	0.038	5.0	100	0.00
46	TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47	TMP 1,2-Dibromoethane (EDB)	0.040	0.048	-20.0	100	0.00
48	TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49	TMP Ethylbenzene	0.040	0.042	-5.0	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51	TMP m,p-Xylene	0.080	0.084	-5.0	100	0.00
52	TMP o-Xylene	0.040	0.043	-7.5	100	0.00
53	TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54	TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55	TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	5 4-Bromofluorobenzene	10.000	10.229	-2.3	100	0.00
58	TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59	TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60	TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61	TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62	TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.69#
63	TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64	TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65	TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66	TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67	TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68	TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69	TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70	TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71	TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72	TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73	TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74	TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75	TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76	TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

5PCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
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Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.267	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.898	-16.8	95	0.00
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.311	-8.0	91	0.00
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.690	-10.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.332	-17.7	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.580	-19.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.342	-18.3	100	0.00
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.792	-71.4#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.417	-2.7	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	1.042	1.312	-25.9#	100	0.00
32 TMP	Trichloroethene	0.326	0.389	-19.3	93	0.00
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	1.098	1.2	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.461	-33.8#	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072838.D  
 Acq On : 28 Jul 2023 09:49 pm  
 Operator : MD  
 Sample : 0.04 ppb 8260 ICAL 69-198g  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:05 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.578	-29.6#	100	0.00
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.597	-27.3#	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	2.052	-27.5#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.800	-27.0#	100	0.00
52 TMP o-Xylene	0.606	0.754	-24.4#	100	0.00
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.921	-2.2	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.000#	100.0#	0#	-8.69#
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

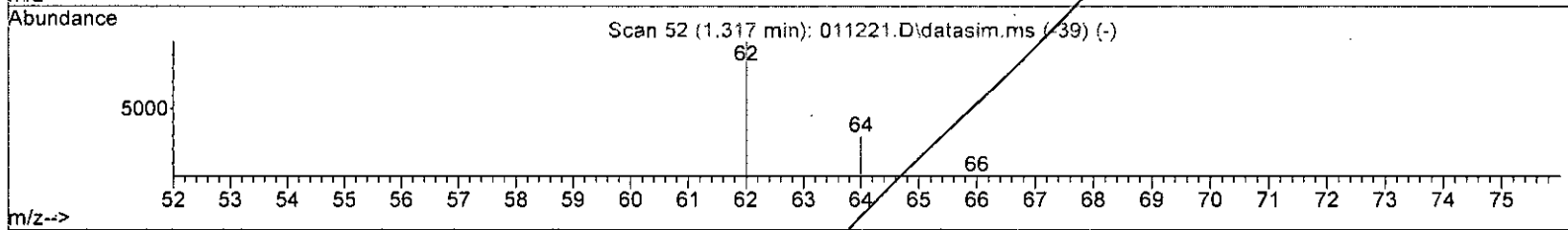
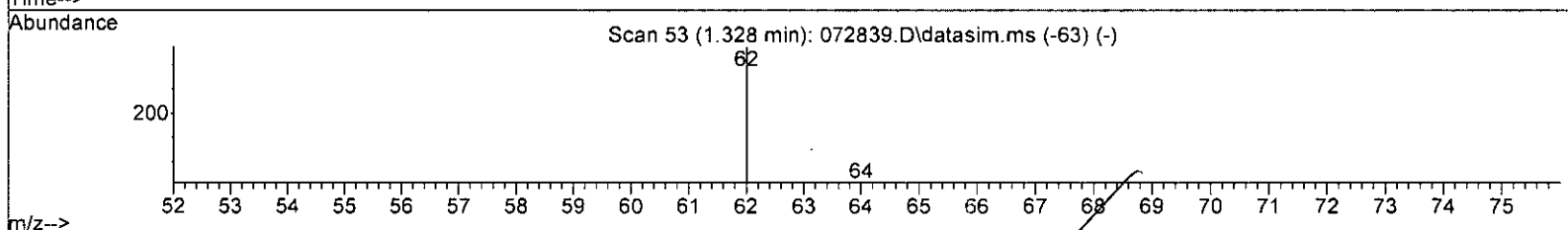
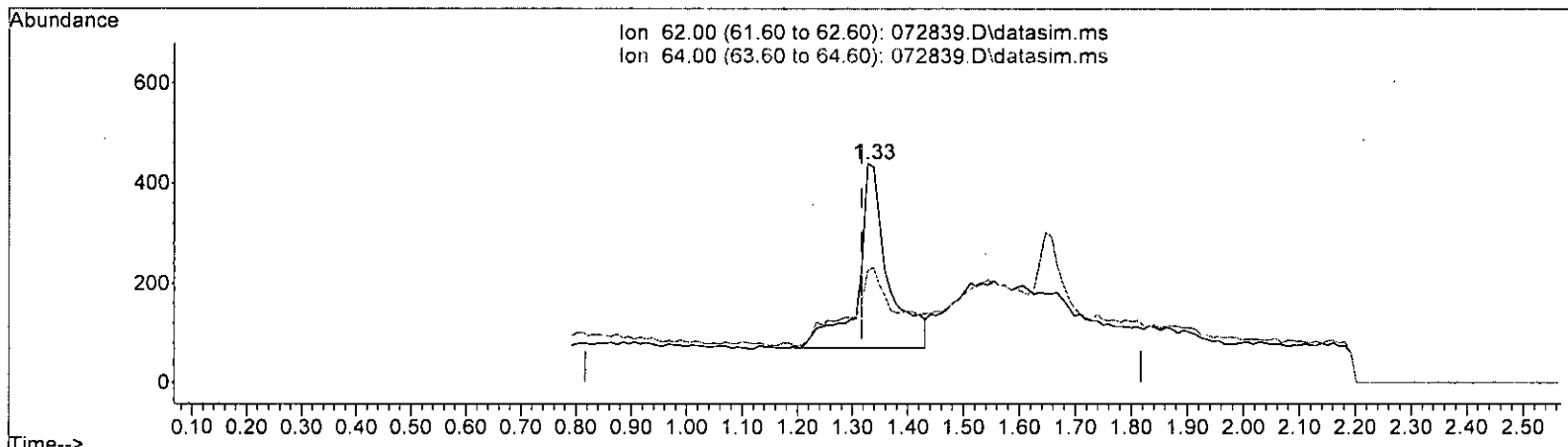
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:08 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072839.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.000 ppb

response 1391

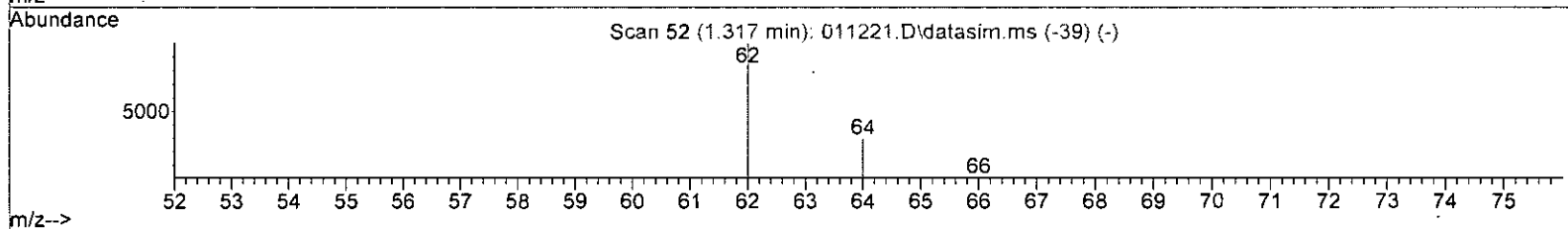
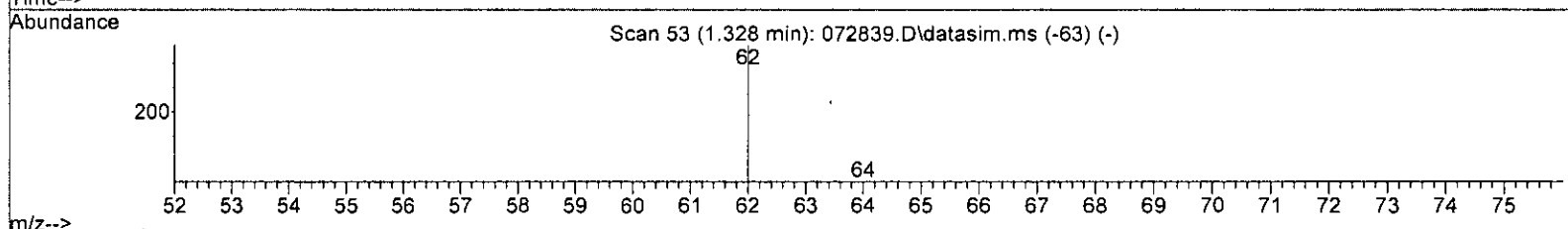
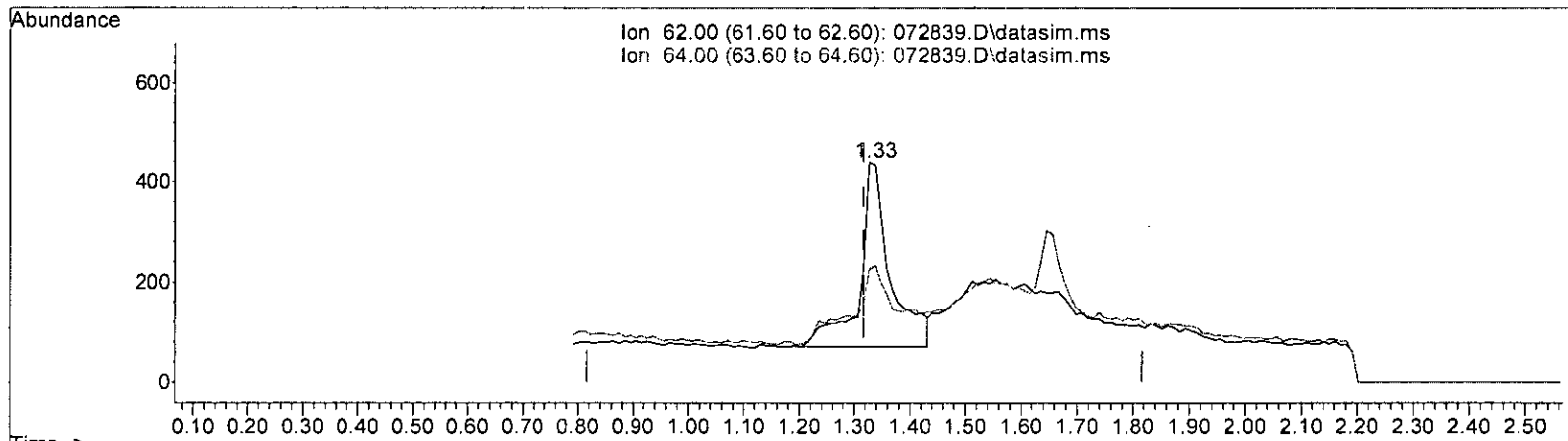
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	39.51
0.00	0.00	0.00
0.00	0.00	0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

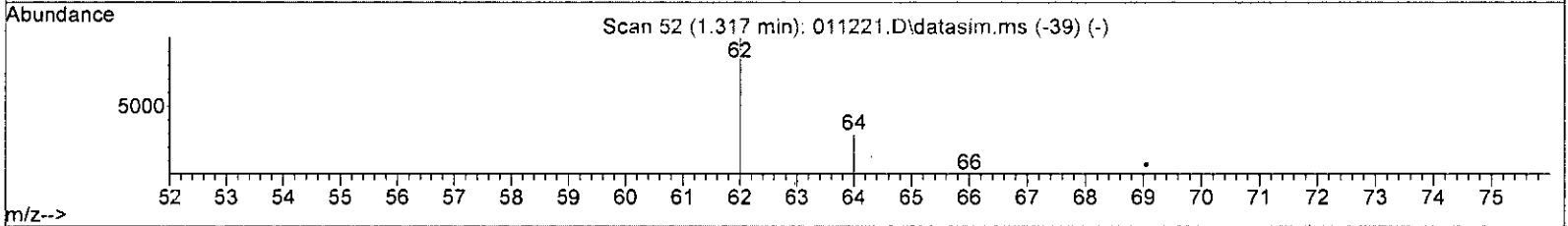
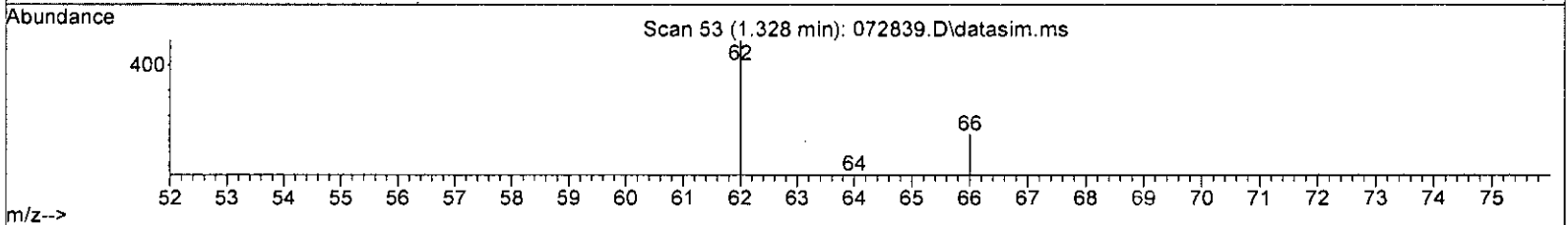
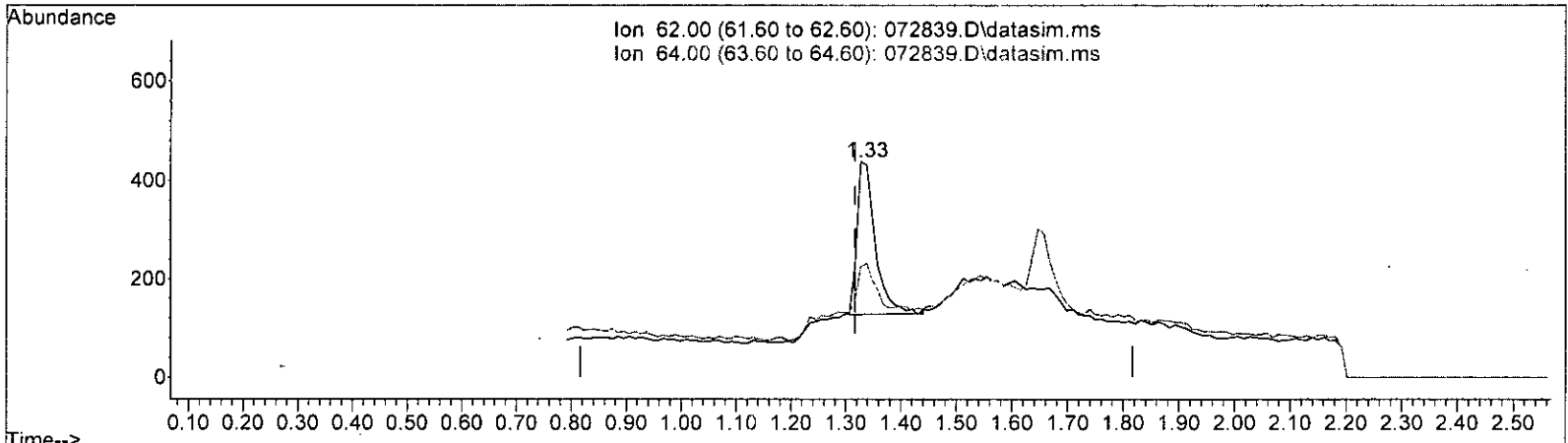
Retention Time (min)	Abundance	Ion	Exp%	Act%
1.328	1391	62.00	100.00	100.00
1.328	1391	64.00	28.90	39.51
1.328	1391	0.00	0.00	0.00
1.328	1391	0.00	0.00	0.00

(6) Vinyl chloride (TMP)  
 1.328min (+ 0.011) 0.172 ppb  
 response 1391  
*m 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms *m 7/29*

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.089 ppb m

response 717

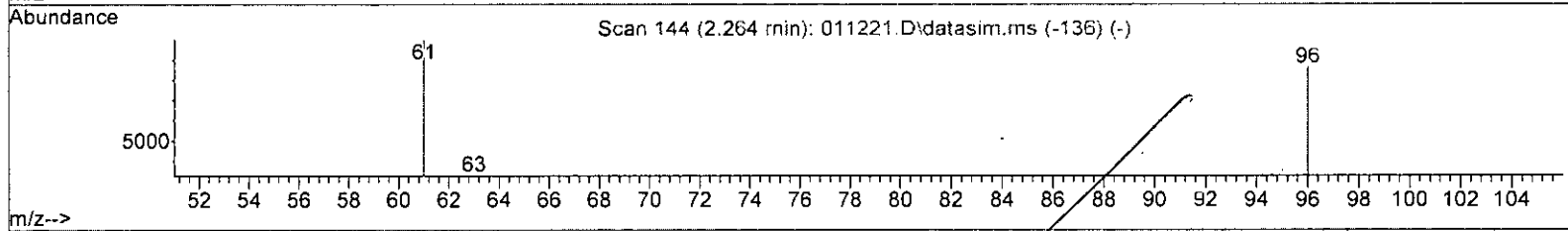
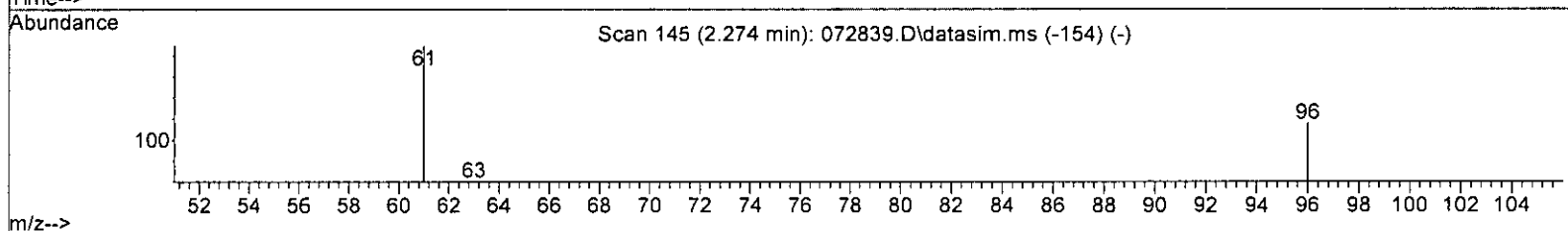
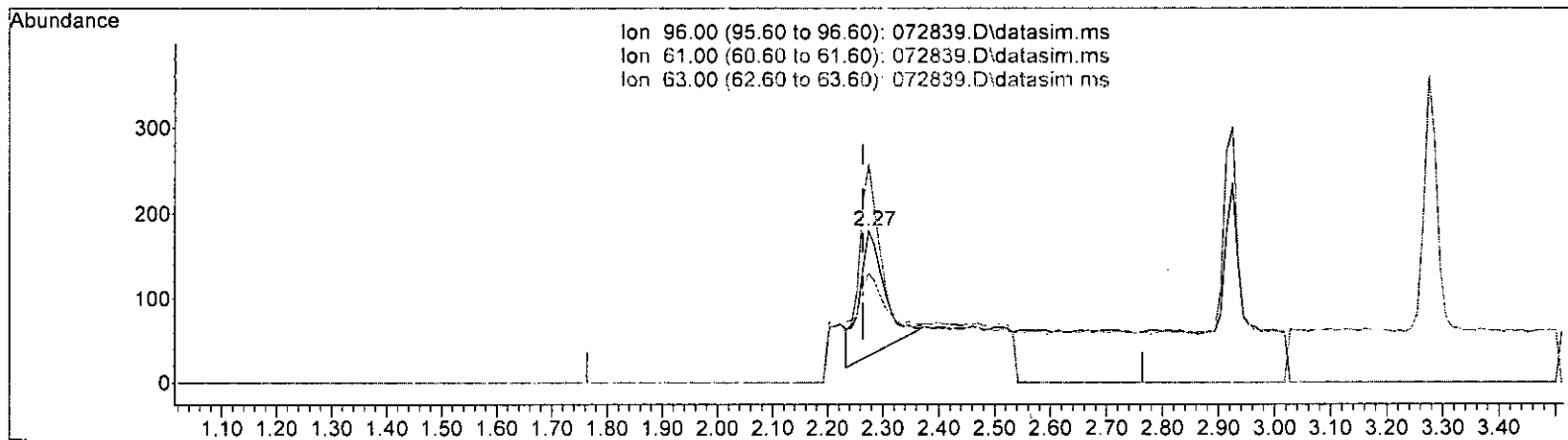
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	51.37
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(12) 1,1-Dichloroethene (TMP) *m 7/20*

2.274min (+ 0.010) 0.152 ppb

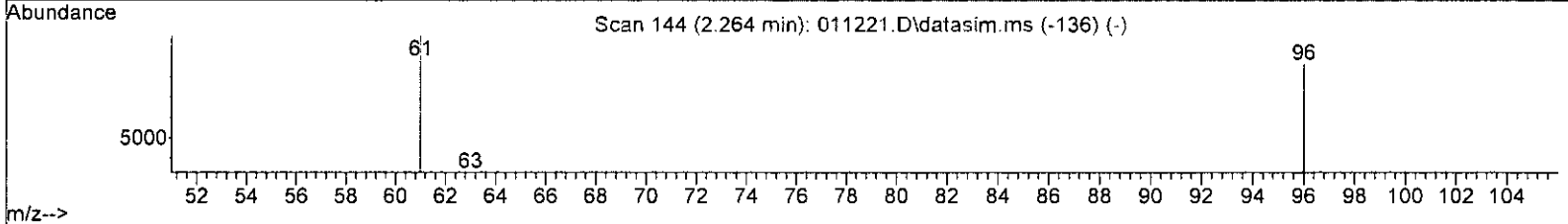
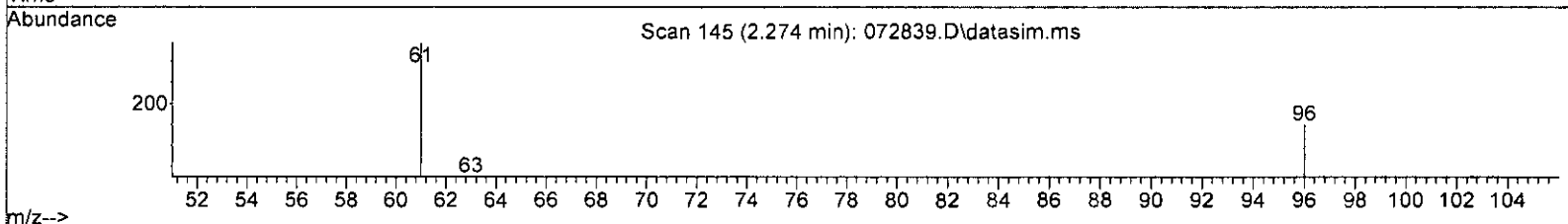
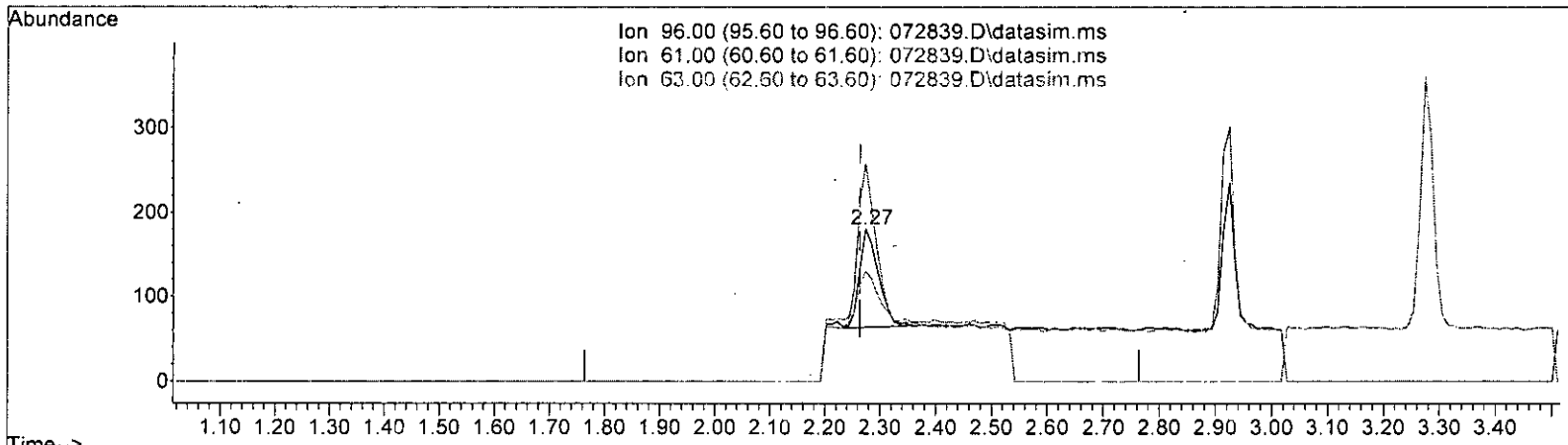
response 460

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	168.10
63.00	54.90	51.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(12) 1,1-Dichloroethene (TMP) *as 7/29*

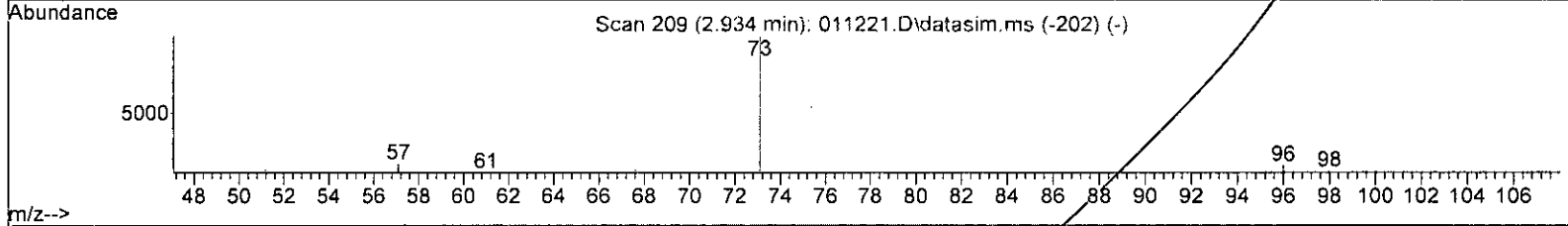
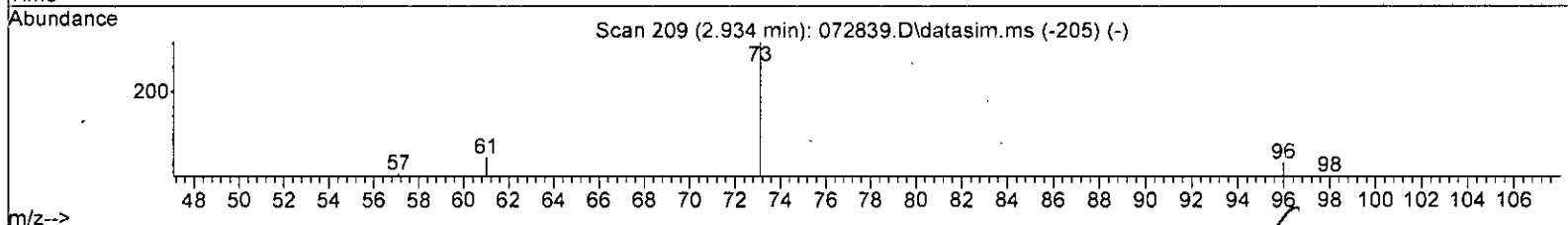
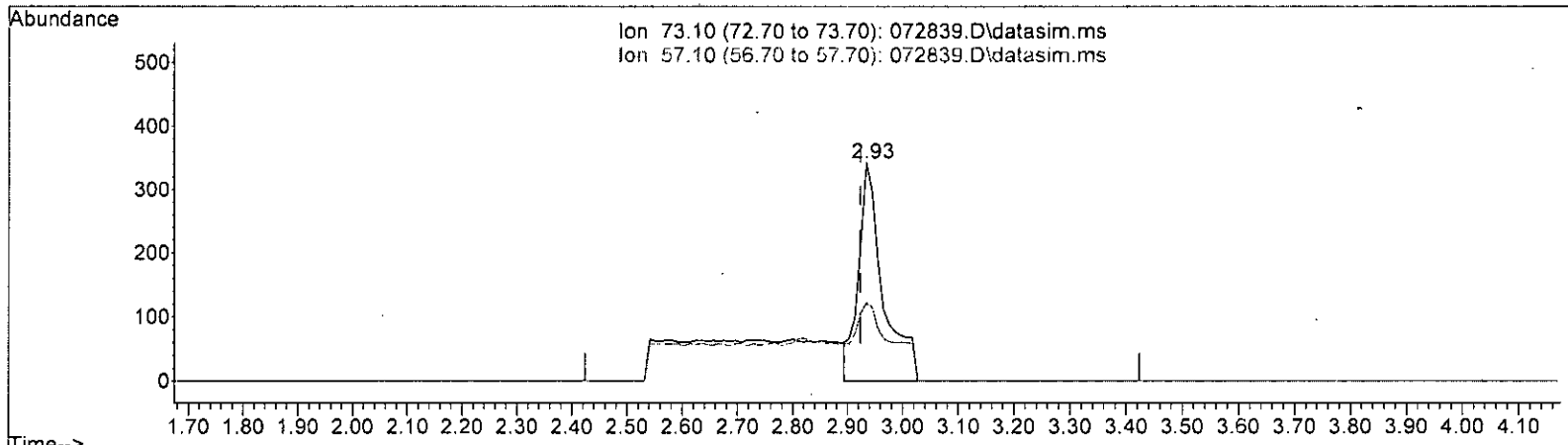
2.274min (+ 0.010) 0.088 ppb m

response	279
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 142.78
63.00	54.90 72.22
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP) *u 7/29*

2.934min (+ 0.010) 0.158 ppb

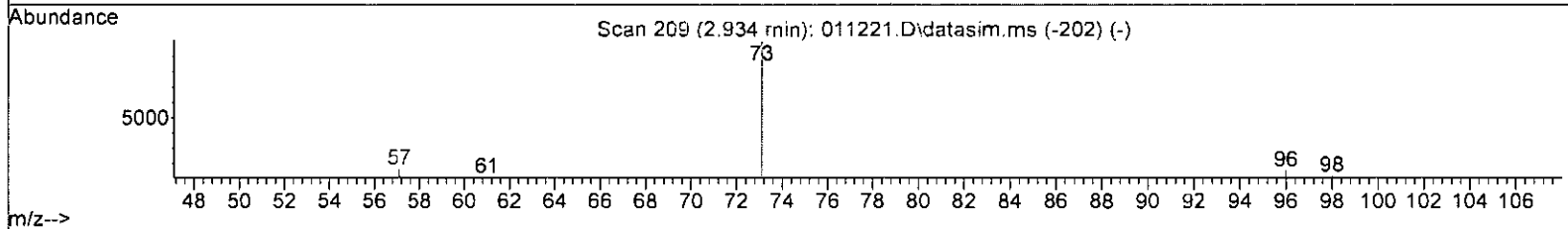
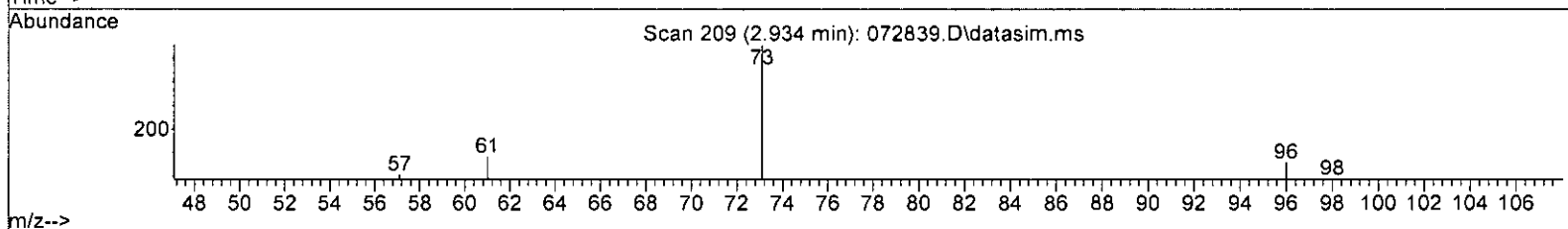
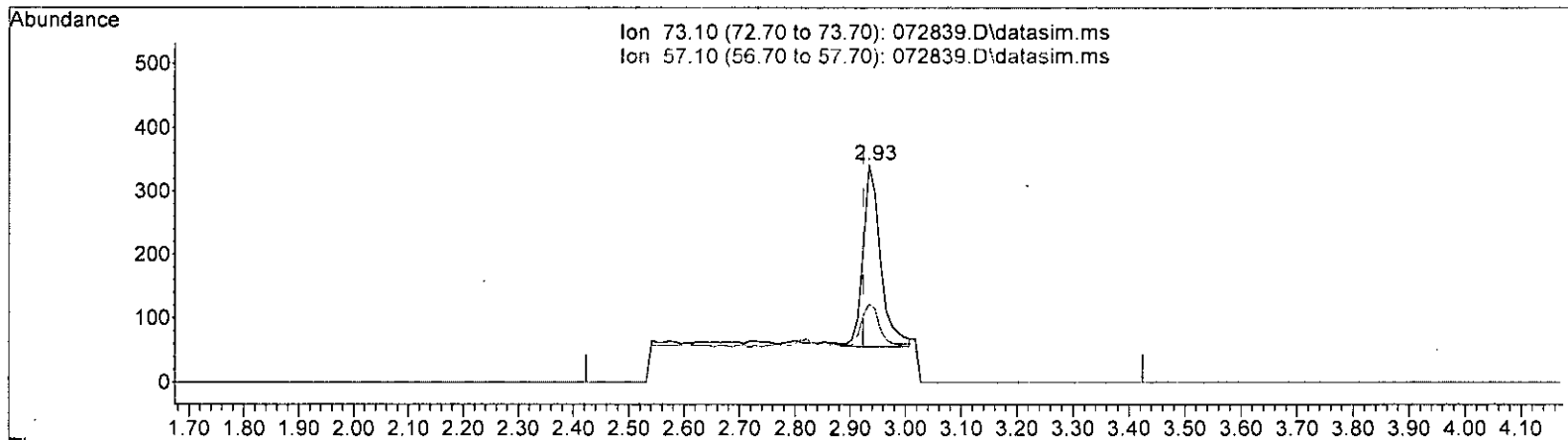
response 1042

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	35.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

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

2.934min (+ 0.010) 0.094 ppb m

response 621

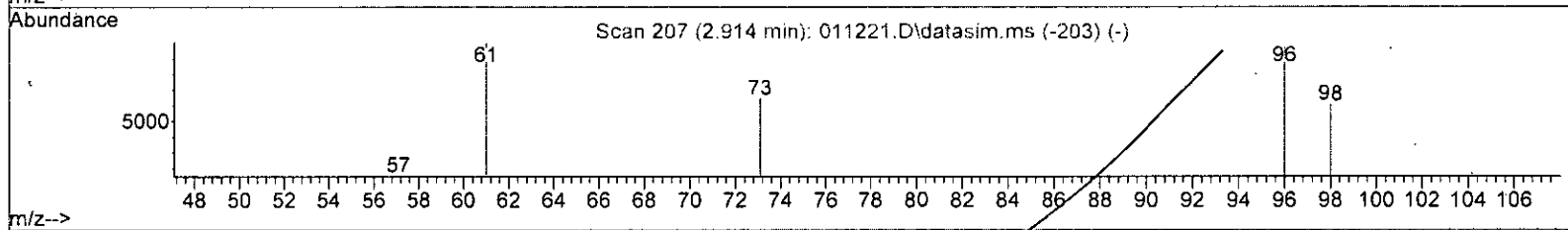
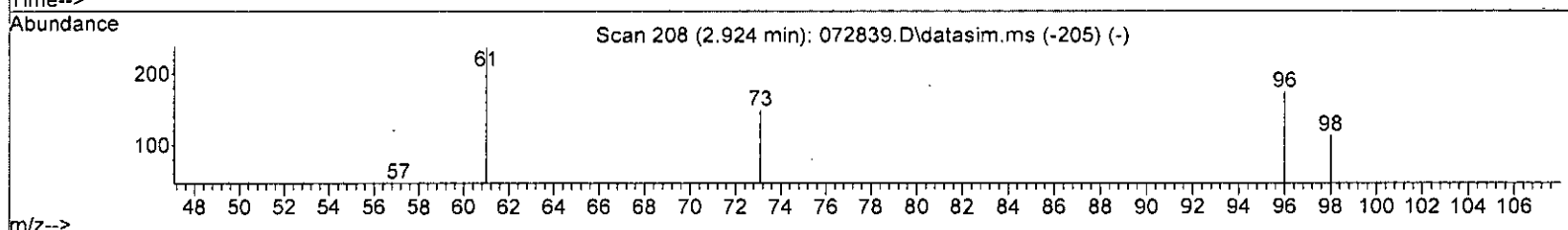
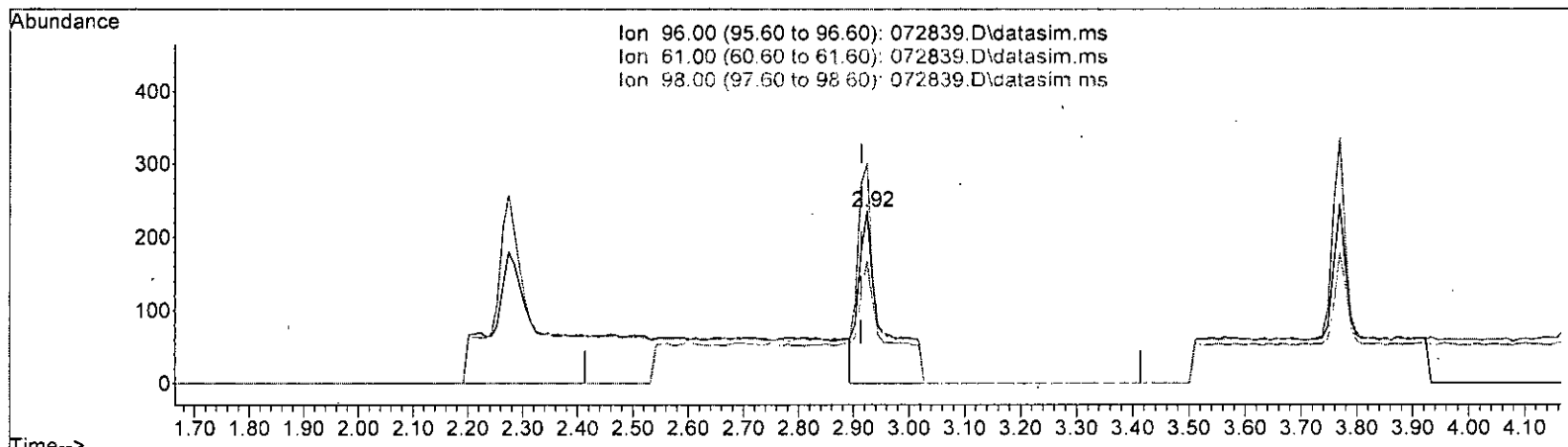
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	35.38
0.00	0.00	0.00
0.00	0.00	0.00

*MD 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) m 7/29

2.924min (+ 0.010) 0.251 ppb

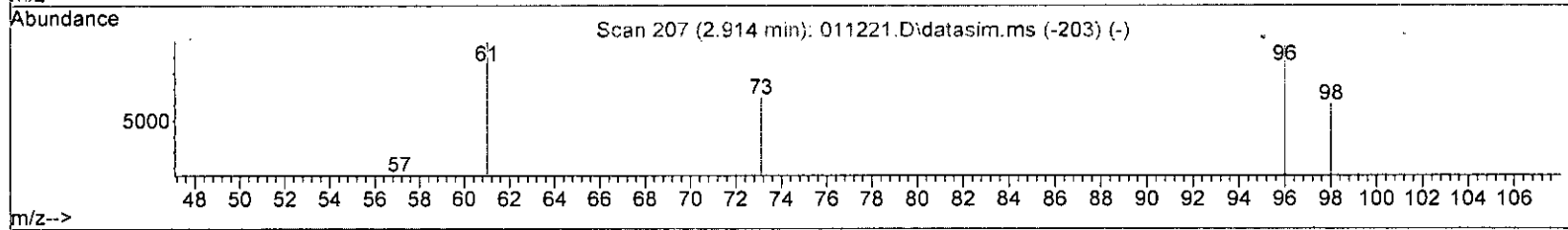
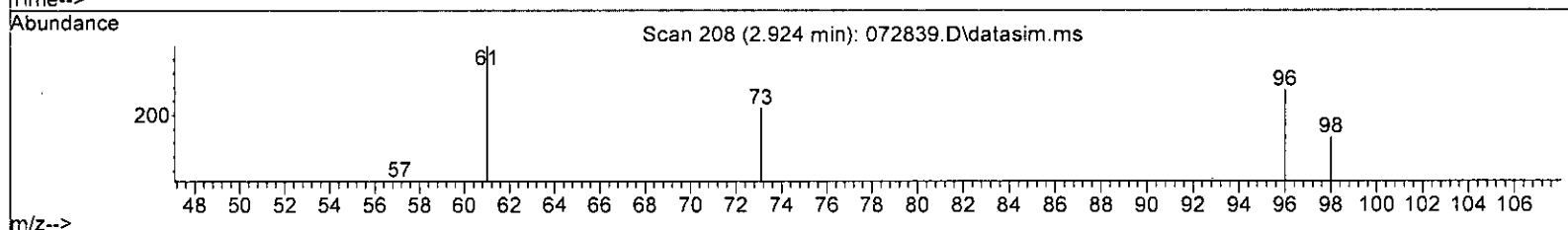
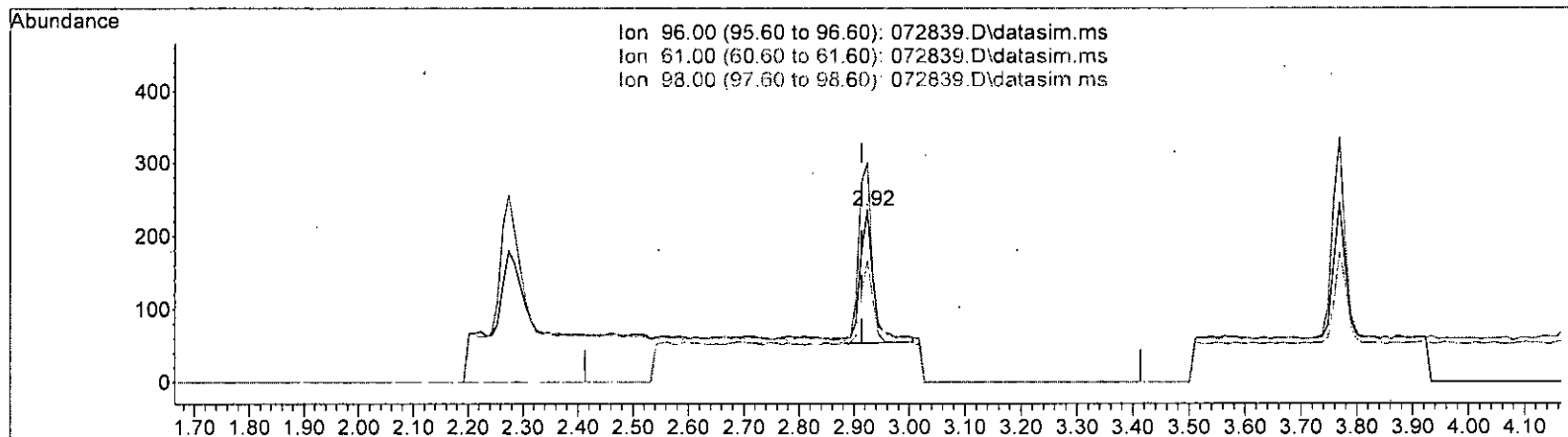
response 715

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	127.66#
98.00	60.80	71.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072839.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *u 7/28*

2.924min (+ 0.010) 0.101 ppb m

response 314

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	127.66#
98.00	60.80	71.06
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	105154	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	79313	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36878	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	29004	10.165	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.60%	
30) 1,2-Dichloroethane-d4	4.45	102	6300	9.970	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	99.70%	
35) Toluene-d8	6.10	98	115234	9.863	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	98.60%	
57) 4-Bromofluorobenzene	8.50	95	34572	10.408	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	104.10%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.	d		
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	717m	0.089	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.27	96	279m	0.088	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	621m	0.094	ppb		
17] trans-1,2-Dichloroethene	2.92	96	314m	0.101	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.27	63	483	0.095	ppb		96
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.77	96	283	0.093	ppb		96
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.52	62	484	0.089	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	386	0.090	ppb		97
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.50	78	1019	0.089	ppb		97
32] Trichloroethene	5.04	95	316	0.087	ppb		93
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

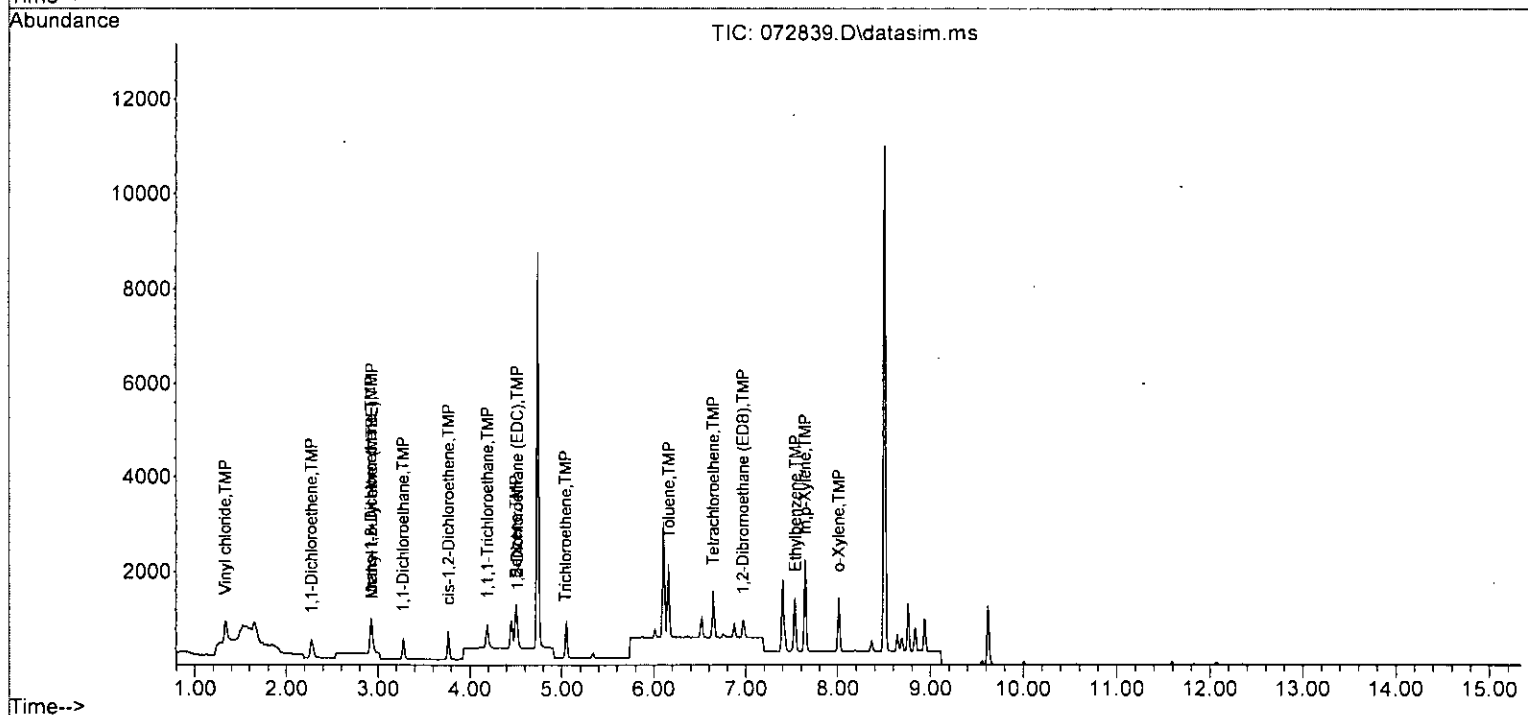
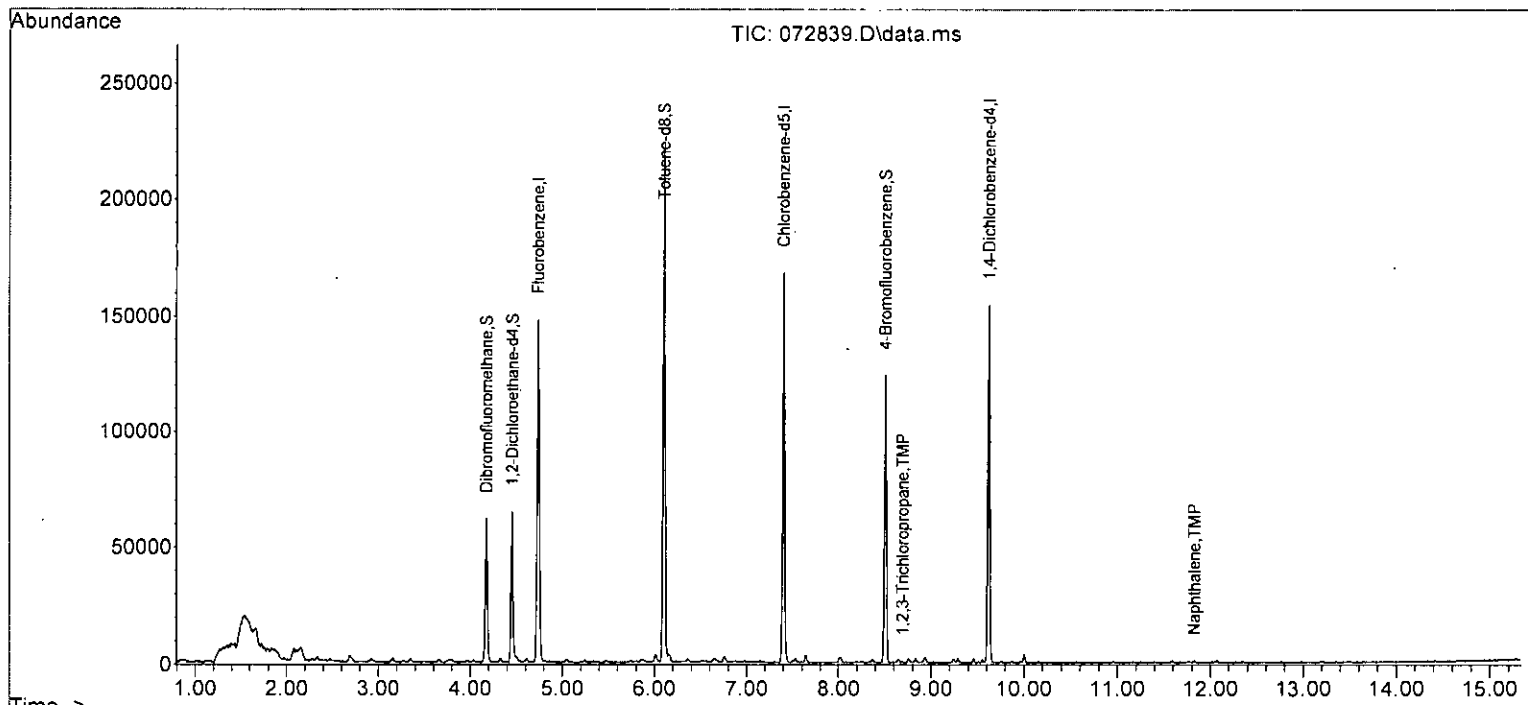
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.16	92	828	0.090	ppb	95
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.64	164	348	0.091	ppb	96
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.97	107	318	0.086	ppb	97
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.54	91	1160	0.086	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.64	106	913	0.172	ppb	100
52] o-Xylene	8.01	106	437	0.087	ppb	99
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	8.69	75	319	0.131	ppb #	42
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.82	128	805	0.102	ppb	82
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

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



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
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 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.31#
3 S	Dibromofluoromethane	10.000	10.165	-1.6	100	0.01
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.100	0.089	11.0	113	0.01
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.84#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.100	0.088	12.0	94	0.01
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.100	0.094	6.0	95	0.01
17 TMP	trans-1,2-Dichloroethene	0.100	0.101	-1.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.100	0.095	5.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.100	0.093	7.0	100	0.01
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.03#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.100	0.089	11.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.100	0.090	10.0	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.32#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.32#
30 S	1,2-Dichloroethane-d4	10.000	9.970	0.3	100	0.00
31 TMP	Benzene	0.100	0.089	11.0	100	0.01
32 TMP	Trichloroethene	0.100	0.087	13.0	100	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.23#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.47#
35 S	Toluene-d8	10.000	9.863	1.4	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.86#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.100	0.090	10.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.51#
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.100	0.091	9.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.086	14.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.100	0.086	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.50#
51 TMP m,p-Xylene	0.200	0.172	14.0	100	0.00
52 TMP o-Xylene	0.100	0.087	13.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.36#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.19#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.408	-4.1	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.76#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.65#
62 TMP 1,2,3-Trichloropropane	0.100	0.131	-31.0#	100	0.00
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.94#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.29#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.45#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.55#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	0.100	0.102	-2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.07#

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-2.31#
3 S	Dibromofluoromethane	0.271	0.276	-1.8	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.682	11.3	113	0.01
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.197	0.000#	100.0#	0#	-1.84#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.288	0.265	8.0	94	0.01
13 TMP	Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.591	5.7	95	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.299	-6.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.000#	100.0#	0#	-3.34#
19 TMP	1,1-Dichloroethane	0.486	0.459	5.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.000#	100.0#	0#	-3.65#
21 TMP	2,2-Dichloropropane	0.269	0.000#	100.0#	0#	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.289	0.269	6.9	100	0.01
23 TMP	Chloroform	0.454	0.000#	100.0#	0#	-4.03#
24 TMP	2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.000#	100.0#	0#	-4.60#
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.460	0.4	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.367	9.6	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.000#	100.0#	0#	-4.32#
29 TMP	Carbon tetrachloride	0.354	0.000#	100.0#	0#	-4.32#
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	1.042	0.969	7.0	100	0.01
32 TMP	Trichloroethene	0.326	0.301	7.7	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.000#	100.0#	0#	-5.23#
34 TMP	Bromodichloromethane	0.327	0.000#	100.0#	0#	-5.47#
35 S	Toluene-d8	1.111	1.096	1.4	100	0.00
36 TMP	Dibromomethane	0.174	0.000#	100.0#	0#	-5.34#
37 TMP	4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.449	0.000#	100.0#	0#	-5.86#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.044	4.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.000#	100.0#	0#	-6.36#
42 TMP	1,1,2-Trichloroethane	0.323	0.000#	100.0#	0#	-6.51#
43 TMP	2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072839.D  
 Acq On : 28 Jul 2023 10:12 pm  
 Operator : MD  
 Sample : 0.1 ppb 8260 ICAL 69-198h  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:36:41 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.446	0.439	1.6	100	0.00
46 TMP Dibromochloromethane	0.434	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.401	14.5	100	0.00
48 TMP Chlorobenzene	0.931	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.609	1.463	9.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.000#	100.0#	0#	-7.50#
51 TMP m,p-Xylene	0.630	0.576	8.6	100	0.00
52 TMP o-Xylene	0.606	0.551	9.1	100	0.00
53 TMP Styrene	0.906	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.367	0.000#	100.0#	0#	-8.36#
55 TMP Bromoform	0.239	0.000#	100.0#	0#	-8.19#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.937	-4.0	100	0.00
58 TMP n-Propylbenzene	3.326	0.000#	100.0#	0#	-8.76#
59 TMP Bromobenzene	0.814	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	2.311	0.000#	100.0#	0#	-8.93#
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.000#	100.0#	0#	-8.65#
62 TMP 1,2,3-Trichloropropane	0.658	0.865	-31.5#	100	0.00
63 TMP 2-Chlorotoluene	1.947	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	2.257	0.000#	100.0#	0#	-8.94#
65 TMP tert-Butylbenzene	2.112	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	2.444	0.000#	100.0#	0#	-9.29#
67 TMP sec-Butylbenzene	3.109	0.000#	100.0#	0#	-9.45#
68 TMP p-Isopropyltoluene	2.595	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.443	0.000#	100.0#	0#	-9.55#
70 TMP 1,4-Dichlorobenzene	1.475	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.371	0.000#	100.0#	0#	-10.00#
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.489	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	2.138	2.183	-2.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.000#	100.0#	0#	-12.07#

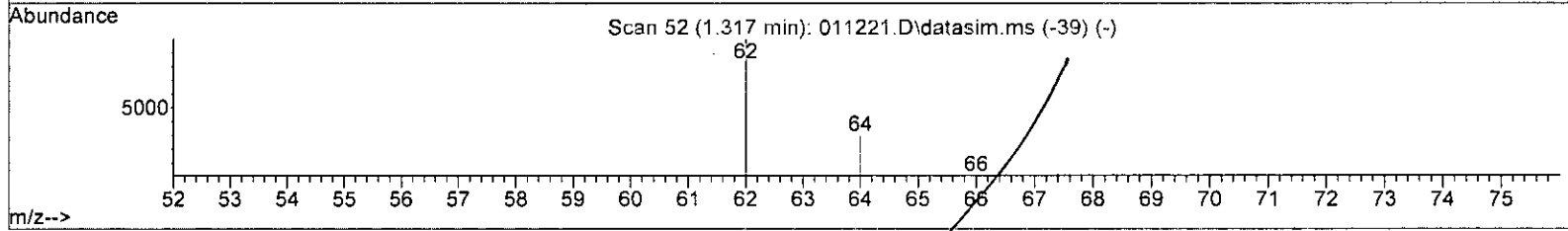
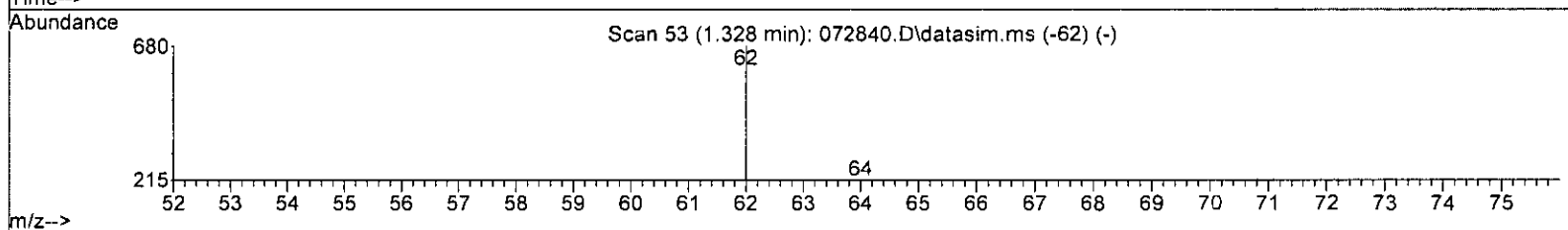
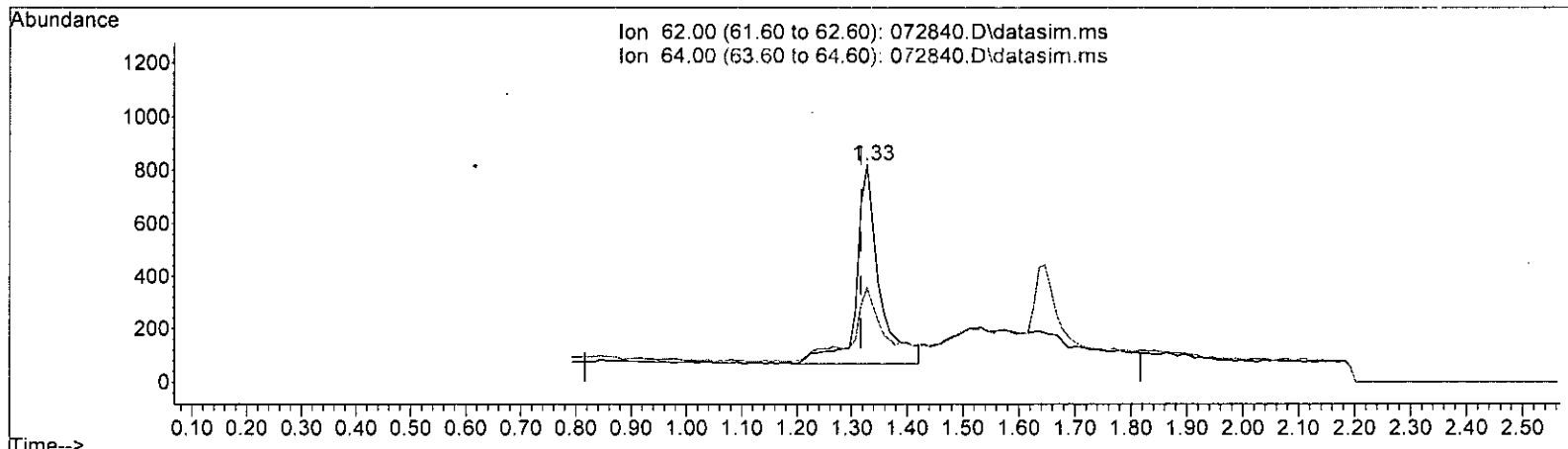
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

*m 7/29*

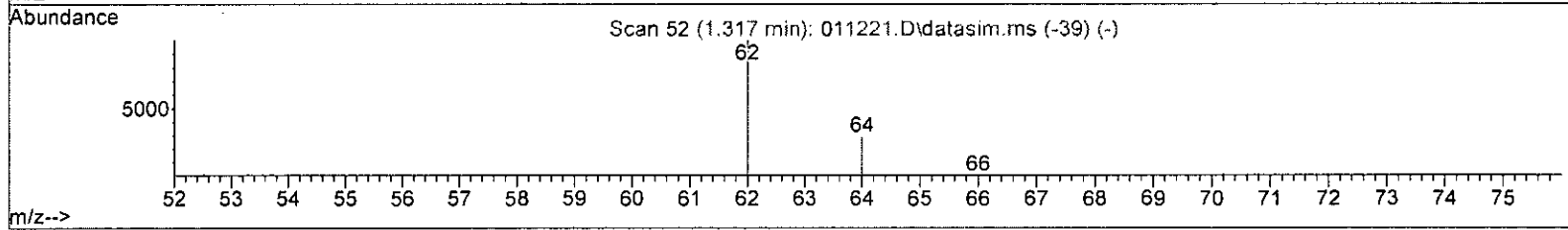
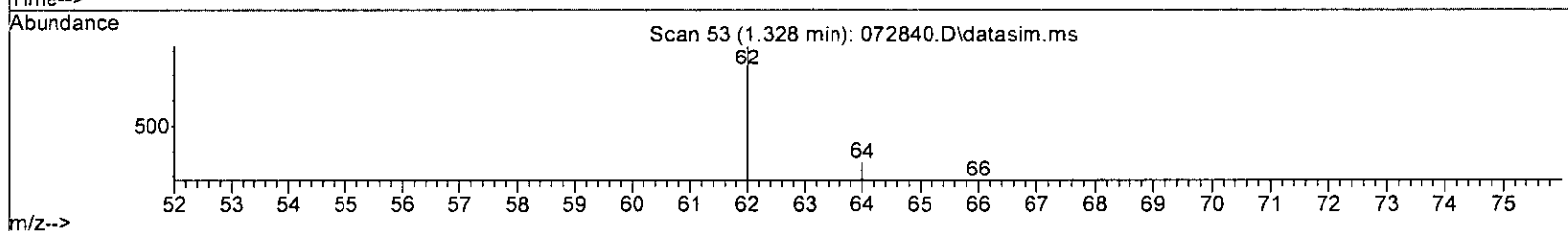
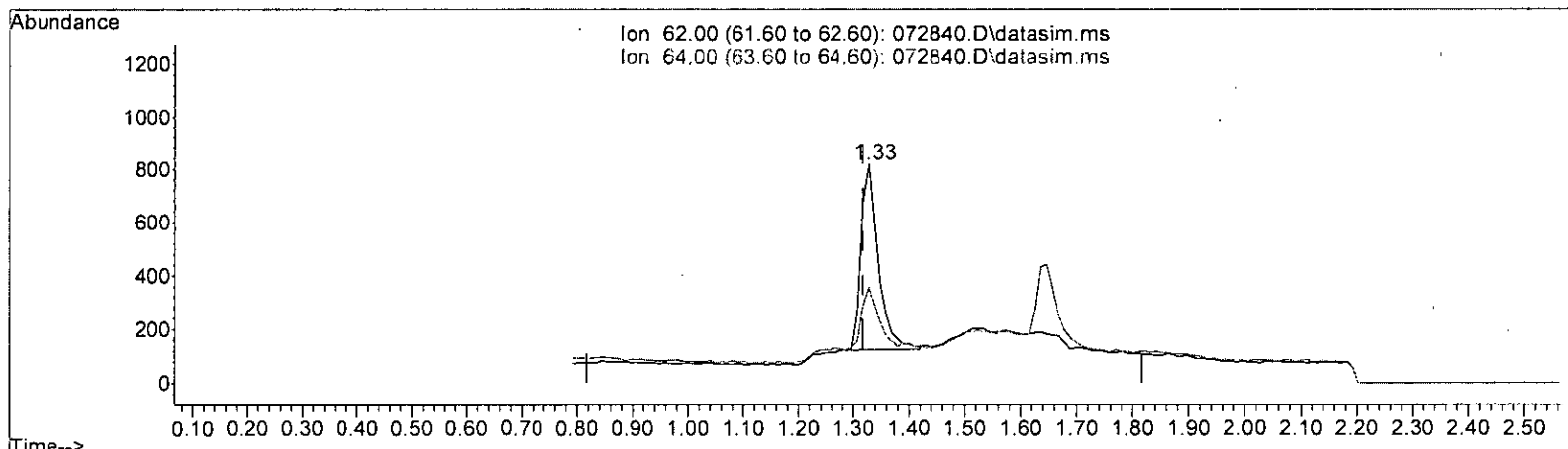
(6) Vinyl chloride (TMP)  
 1.328min (+ 0.011) 0.268 ppb  
 response 2169

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	37.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



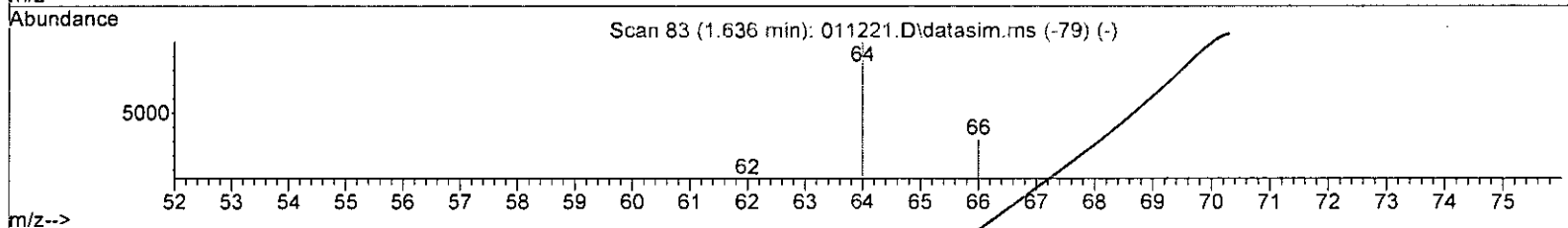
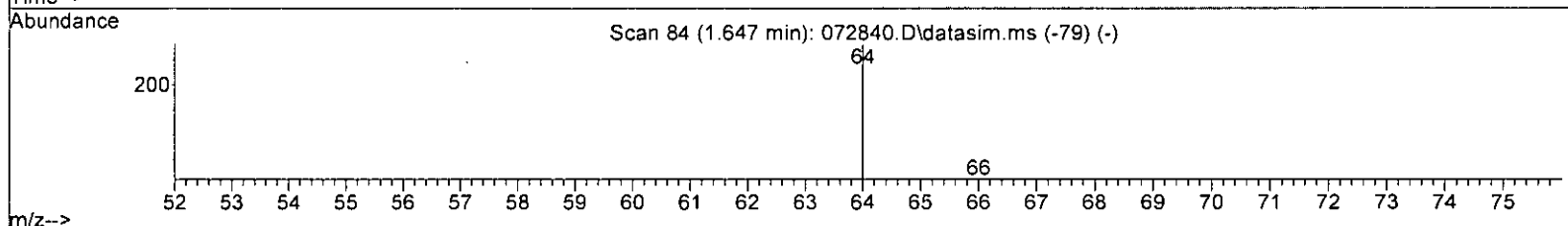
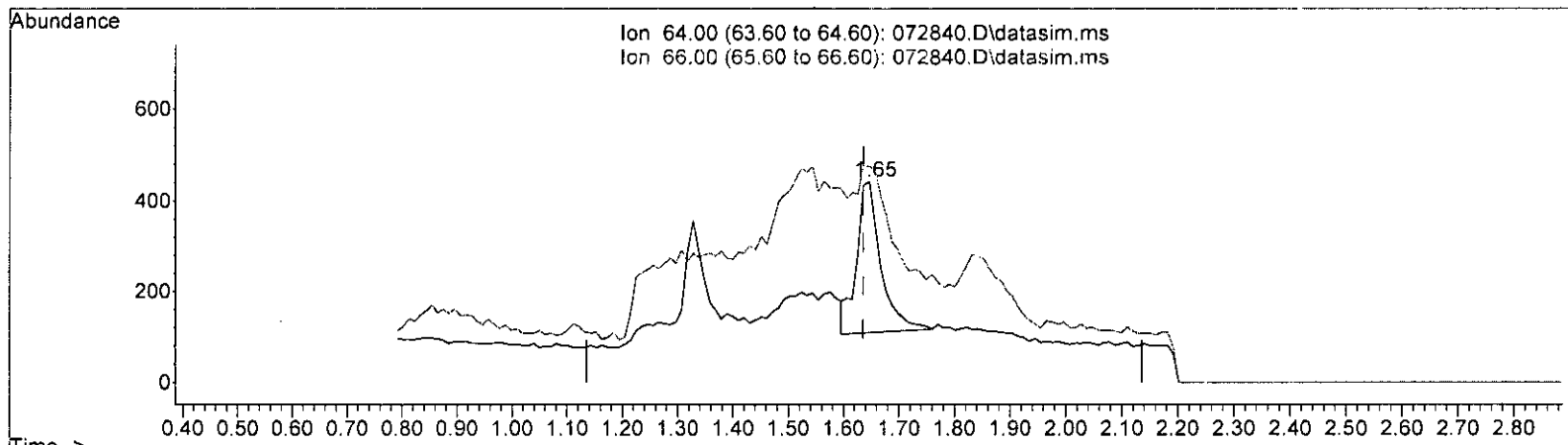
TIC: 072840.D\data.ms *m 7/29*

(6) Vinyl chloride (TMP)			
1.328min (+ 0.011)		0.183 ppb m	
response	1480		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	43.41	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(8) Chloroethane (TMP)

1.647min (+ 0.011) 0.296 ppb

response 1007

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.80	72.70#
0.00	0.00	0.00
0.00	0.00	0.00

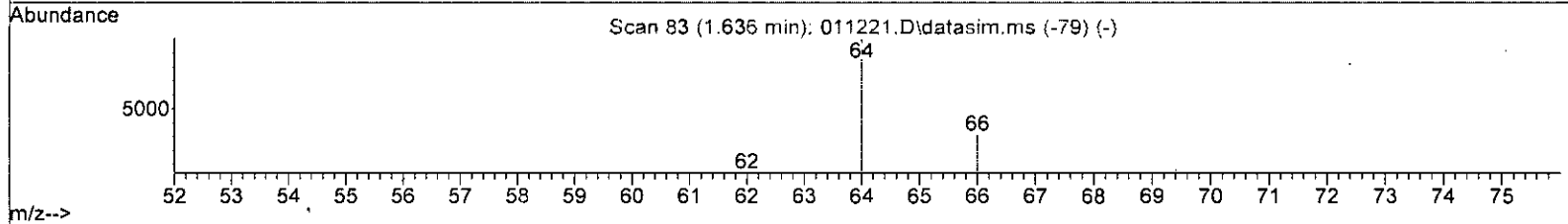
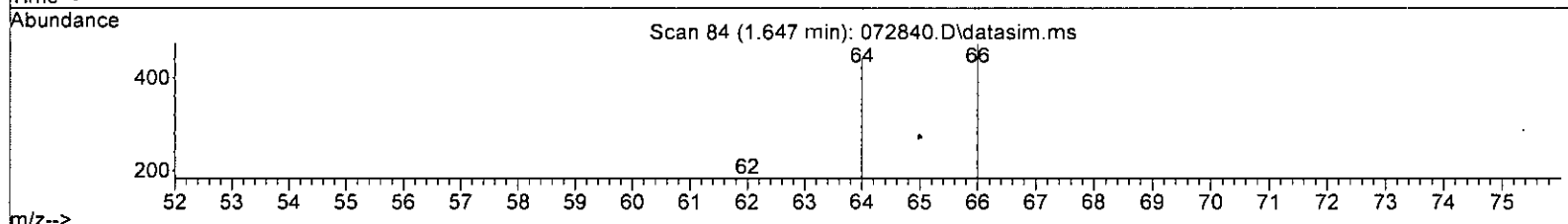
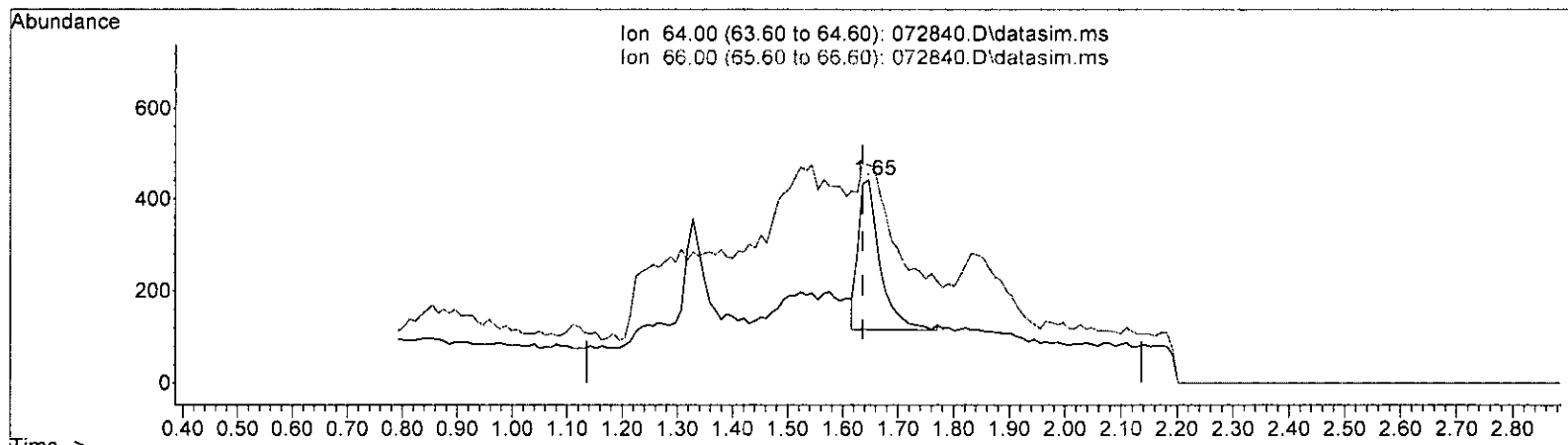
*m 7/20*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(8) Chloroethane (TMP) *m 7/29*

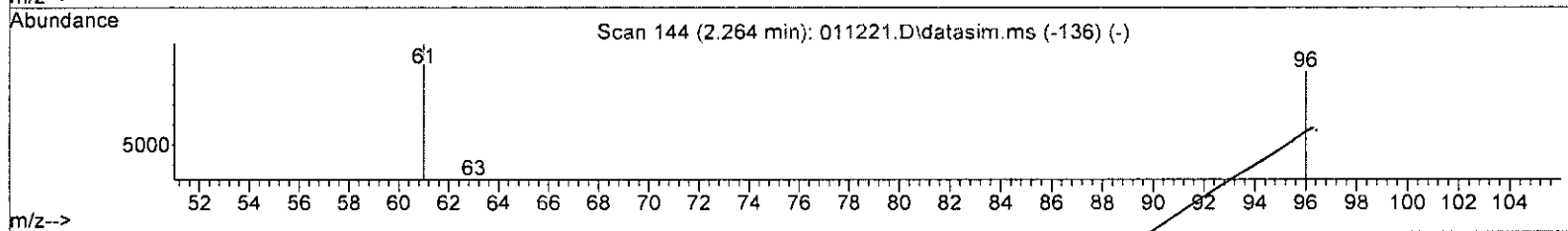
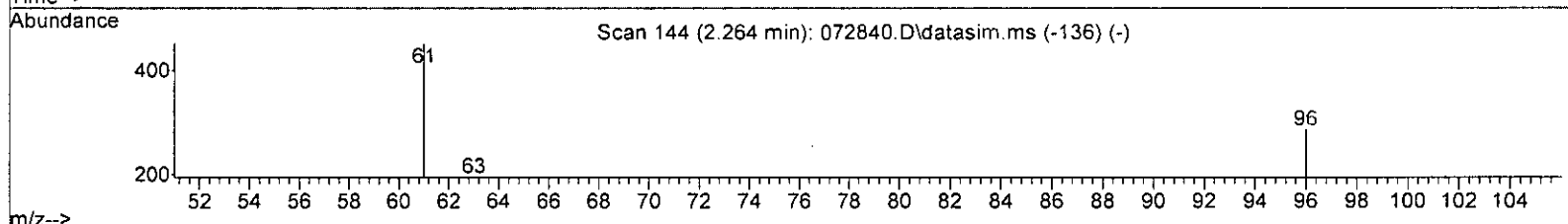
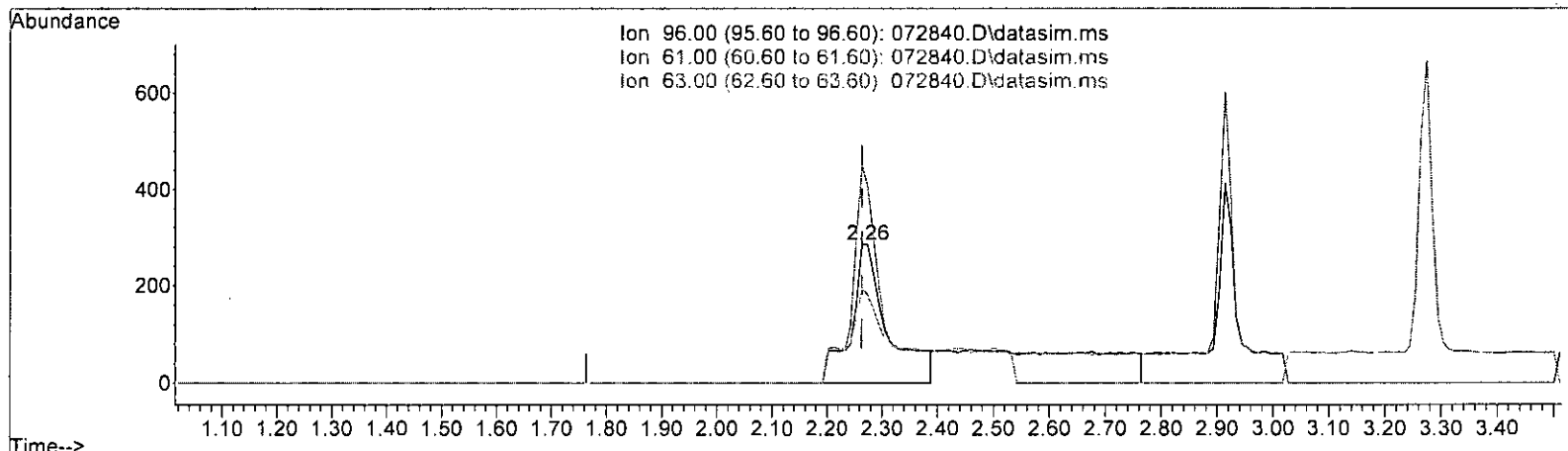
1.647min (+ 0.011) 0.258 ppb m

response	876
Ion	Exp% Act%
64.00	100.00 100.00
66.00	29.80 107.47#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (-0.000) 0.450 ppb

response 1311

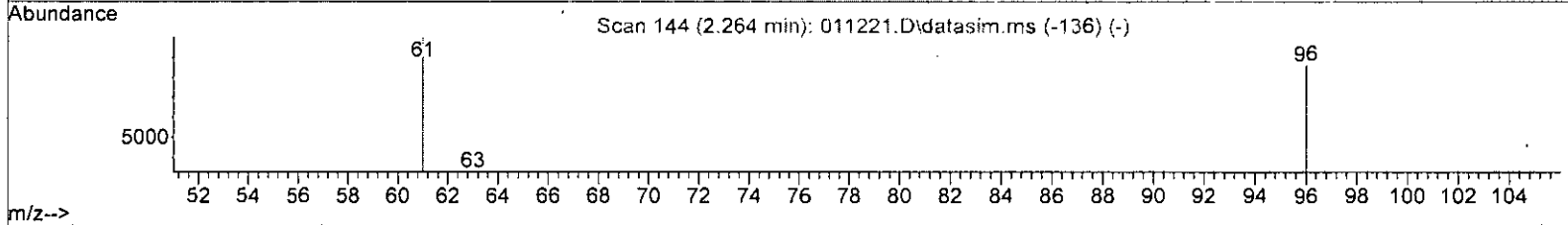
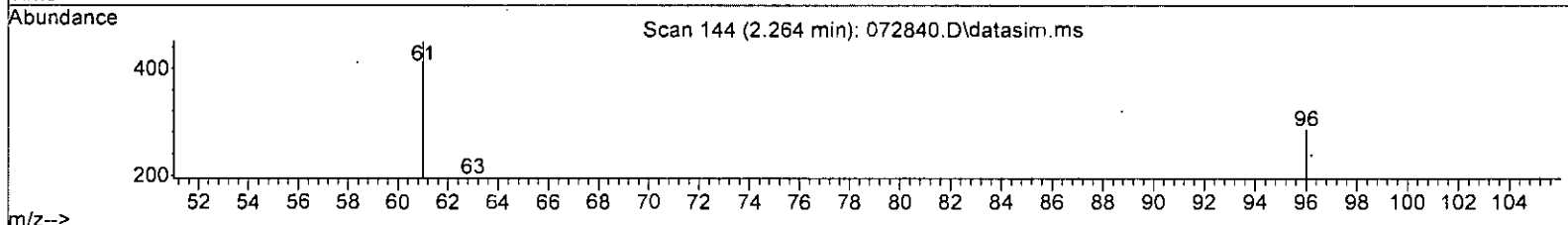
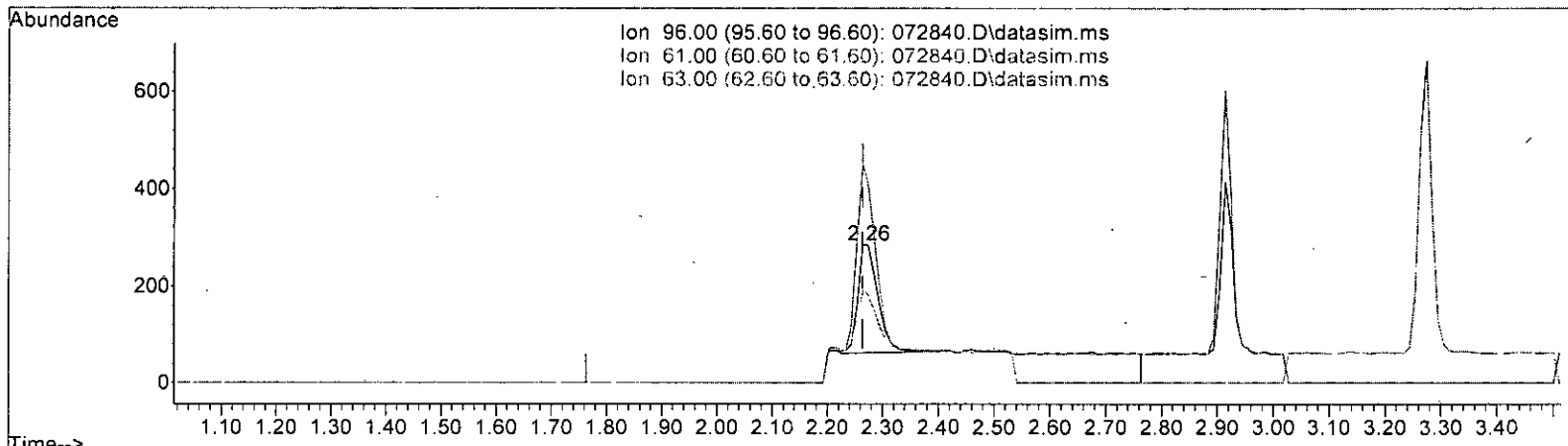
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	158.80
63.00	54.90	68.31
0.00	0.00	0.00

*m/z*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(12) 1,1-Dichloroethene (TMP) *W 7/29*

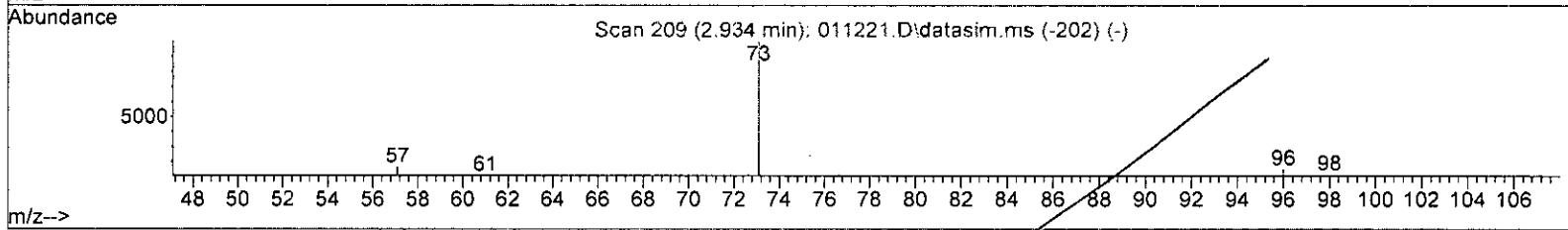
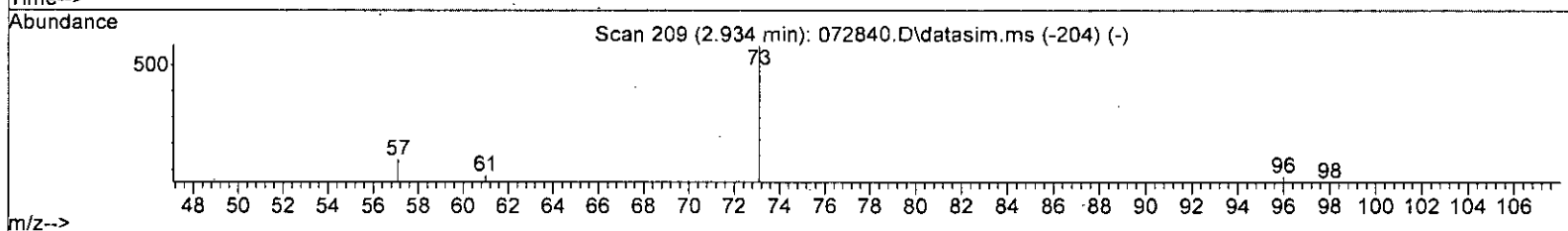
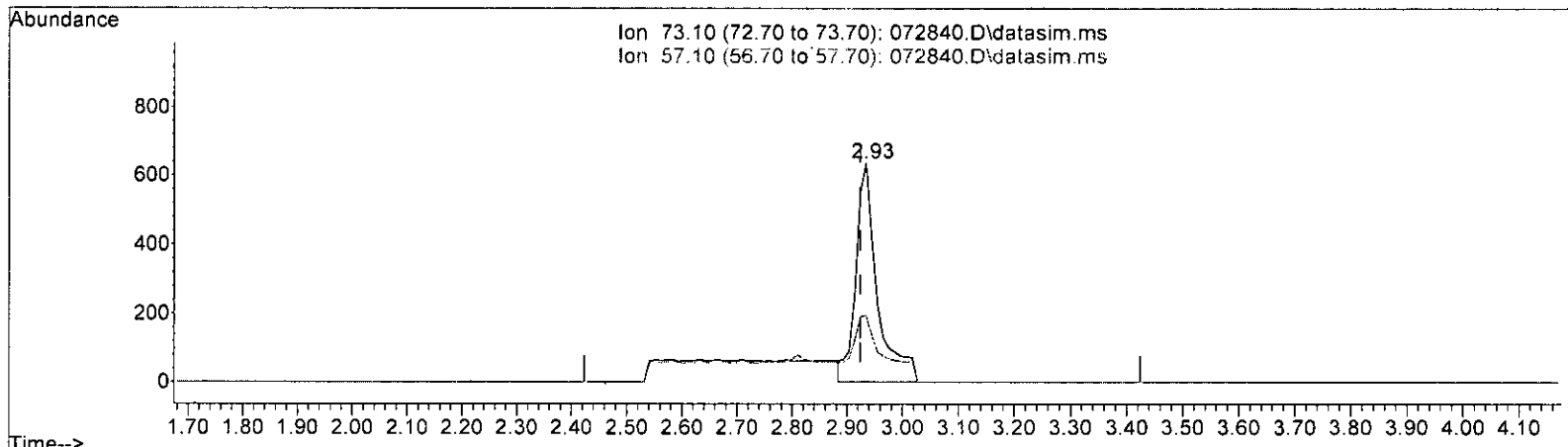
2.264min (-0.000) 0.188 ppb m

response	564	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	158.80
63.00	54.90	68.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP) *m 7/20*

2.934min (+ 0.010) 0.259 ppb

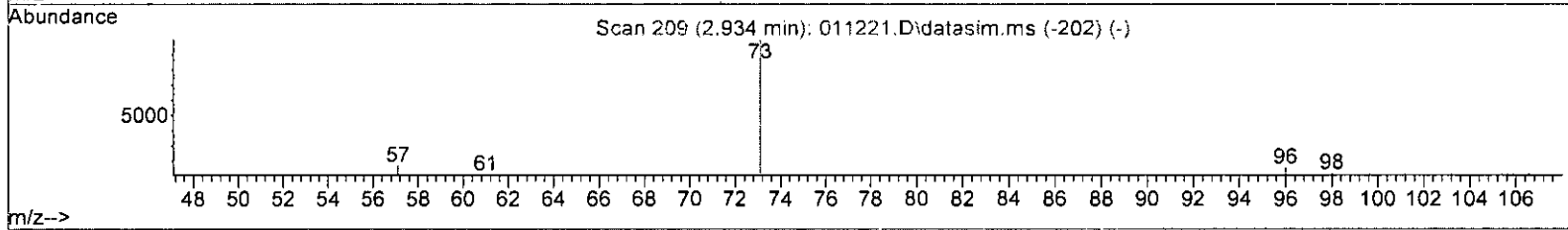
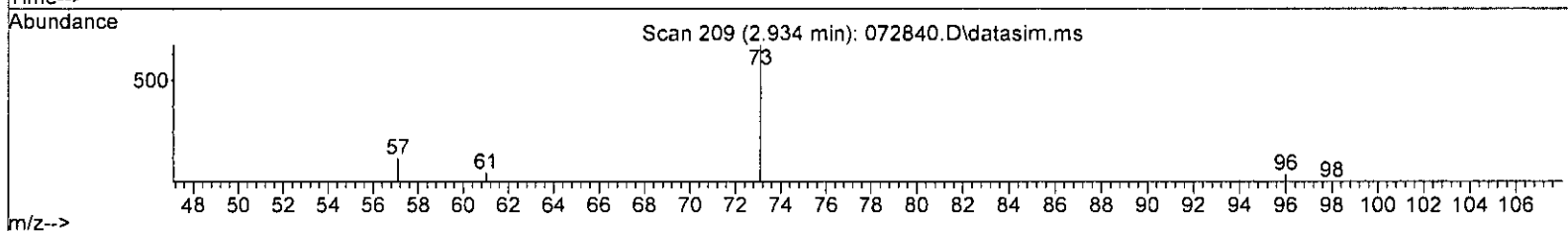
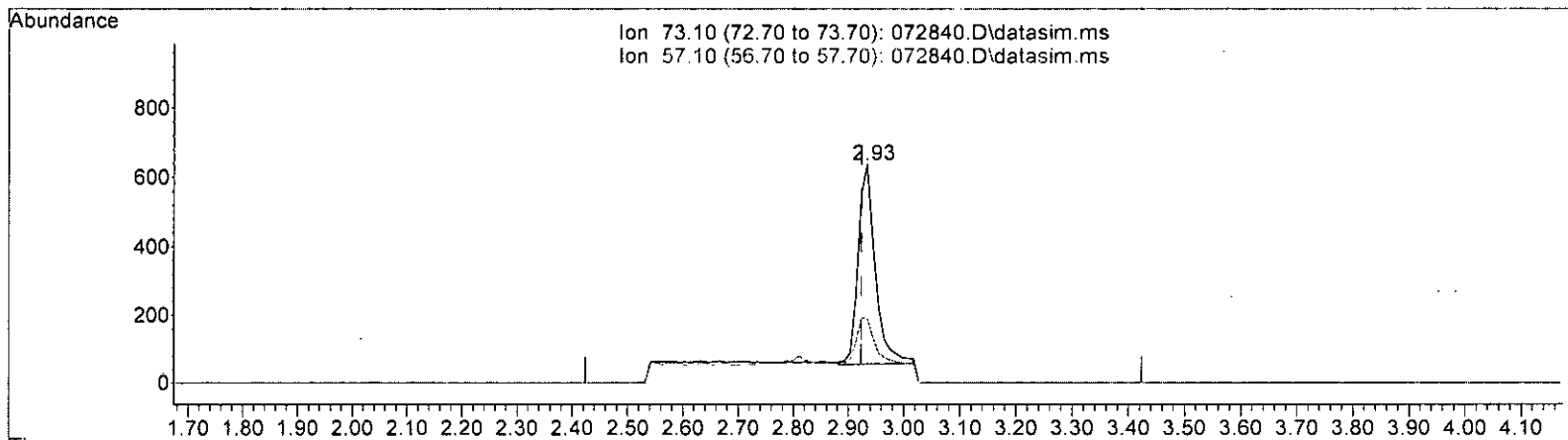
response 1710

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	30.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

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

2.934min (+ 0.010) 0.190 ppb m

response 1255

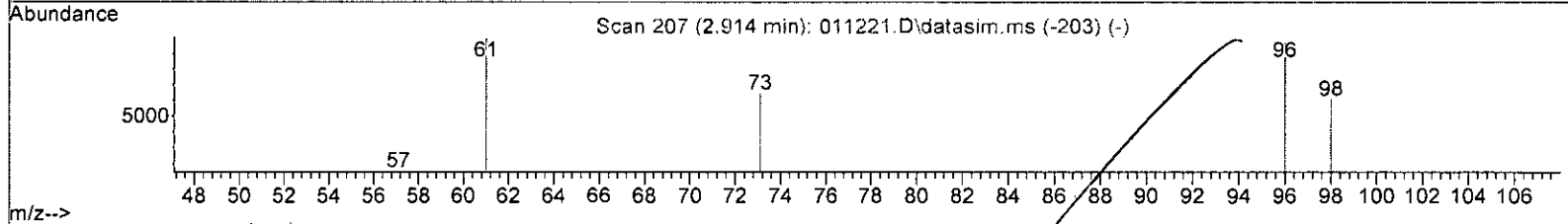
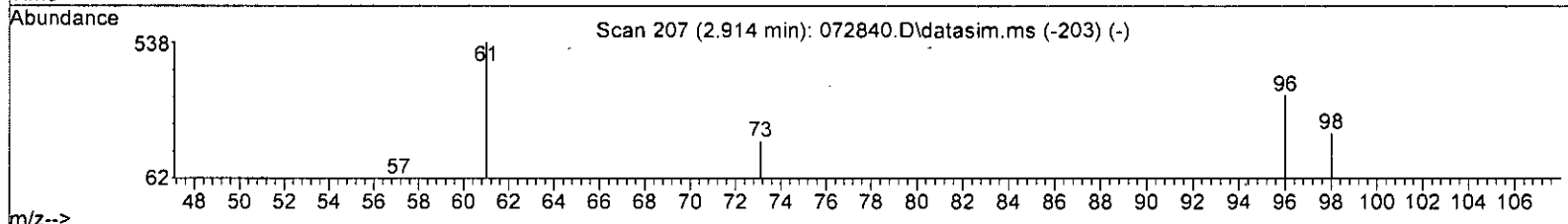
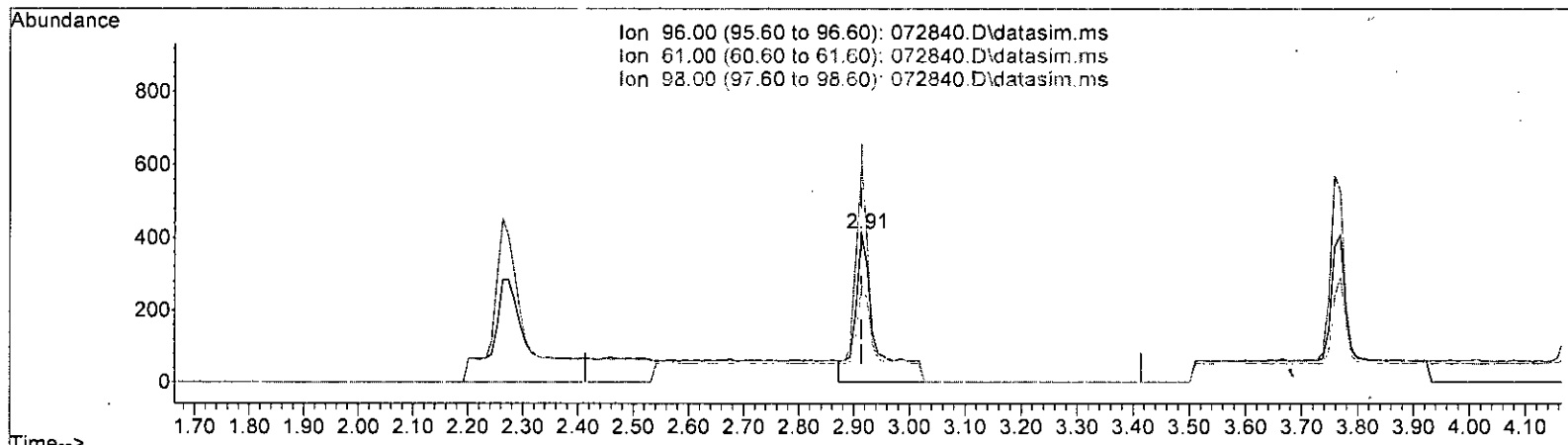
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	30.50
0.00	0.00	0.00
0.00	0.00	0.00

*MD 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072840.D\data.ms

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

2.914min (-0.000) 0.377 ppb

response 1054

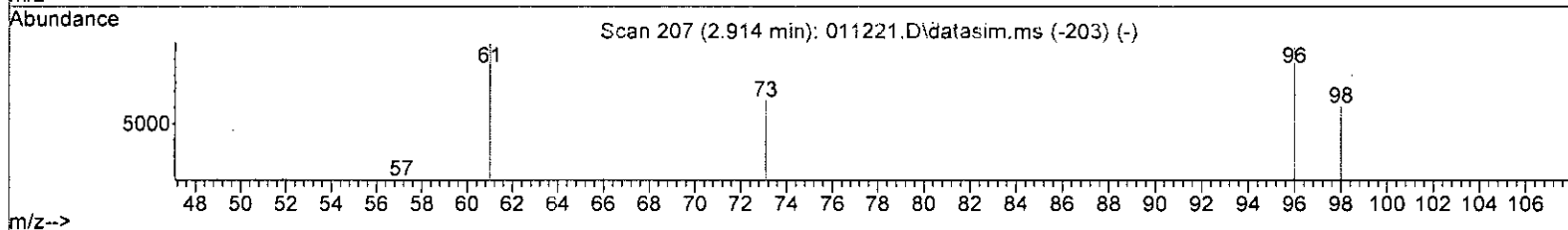
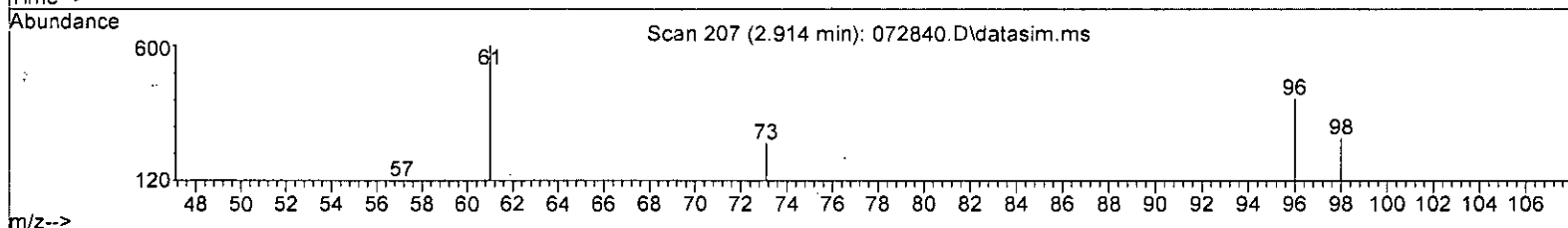
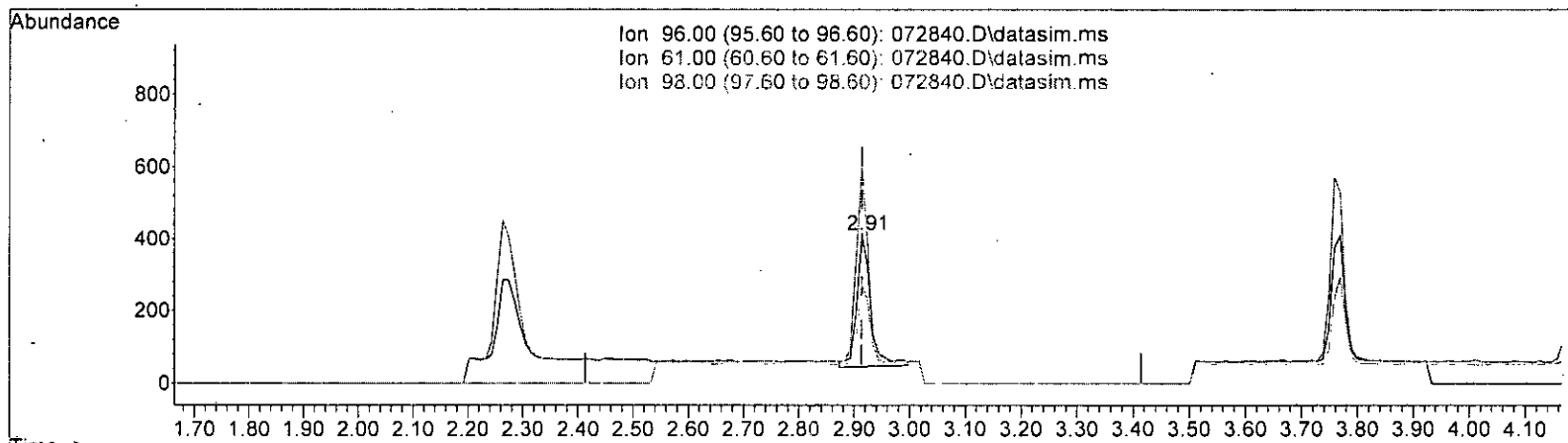
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	145.87
98.00	60.80	65.78
0.00	0.00	0.00

*MD 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072840.D\data.ms

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

2.914min (-0.000) 0.219 ppb m

response 631

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	145.87
98.00	60.80	65.78
0.00	0.00	0.00

*MD 7/29*

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	105364	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	79174	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36712	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	29349	10.265	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%		
30) 1,2-Dichloroethane-d4	4.45	102	6567	10.372	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	103.70%		
35) Toluene-d8	6.10	98	117788	10.062	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	100.60%		
57) 4-Bromofluorobenzene	8.50	95	33295	10.069	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	100.70%		
Target Compounds							
2) Ethanol	2.32	45	171	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	1480m	0.183	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.65	64	876m	0.258	ppb		
9) Trichlorofluoromethane	1.85	101	2328	0.185	ppb		69
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	564m	0.188	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	1255m	0.190	ppb		
17] trans-1,2-Dichloroethene	2.91	96	631m	0.219	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	2171	0.220	ppb		95
19] 1,1-Dichloroethane	3.27	63	986	0.193	ppb		100
20) Ethyl t-butyl ether (E...)	3.66	87	593	0.213	ppb	#	61
21) 2,2-Dichloropropane	3.75	77	575	0.203	ppb		54
22] cis-1,2-Dichloroethene	3.77	96	582	0.191	ppb		95
23) Chloroform	4.04	83	943	0.197	ppb		97
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.61	73	1239	0.198	ppb		92
26] 1,2-Dichloroethane (EDC)	4.52	62	881	0.188	ppb		97
27] 1,1,1-Trichloroethane	4.19	97	823	0.193	ppb		99
28) 1,1-Dichloropropene	4.32	75	628	0.174	ppb		74
29) Carbon tetrachloride	4.32	117	786	0.210	ppb		72
31] Benzene	4.50	78	2144	0.199	ppb		100
32] Trichloroethene	5.04	95	617	0.183	ppb		100
33) 1,2-Dichloropropane	5.24	63	628	0.221	ppb	#	88
34) Bromodichloromethane	5.47	83	605	0.176	ppb		85
36) Dibromomethane	5.34	93	344	0.188	ppb	#	74



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

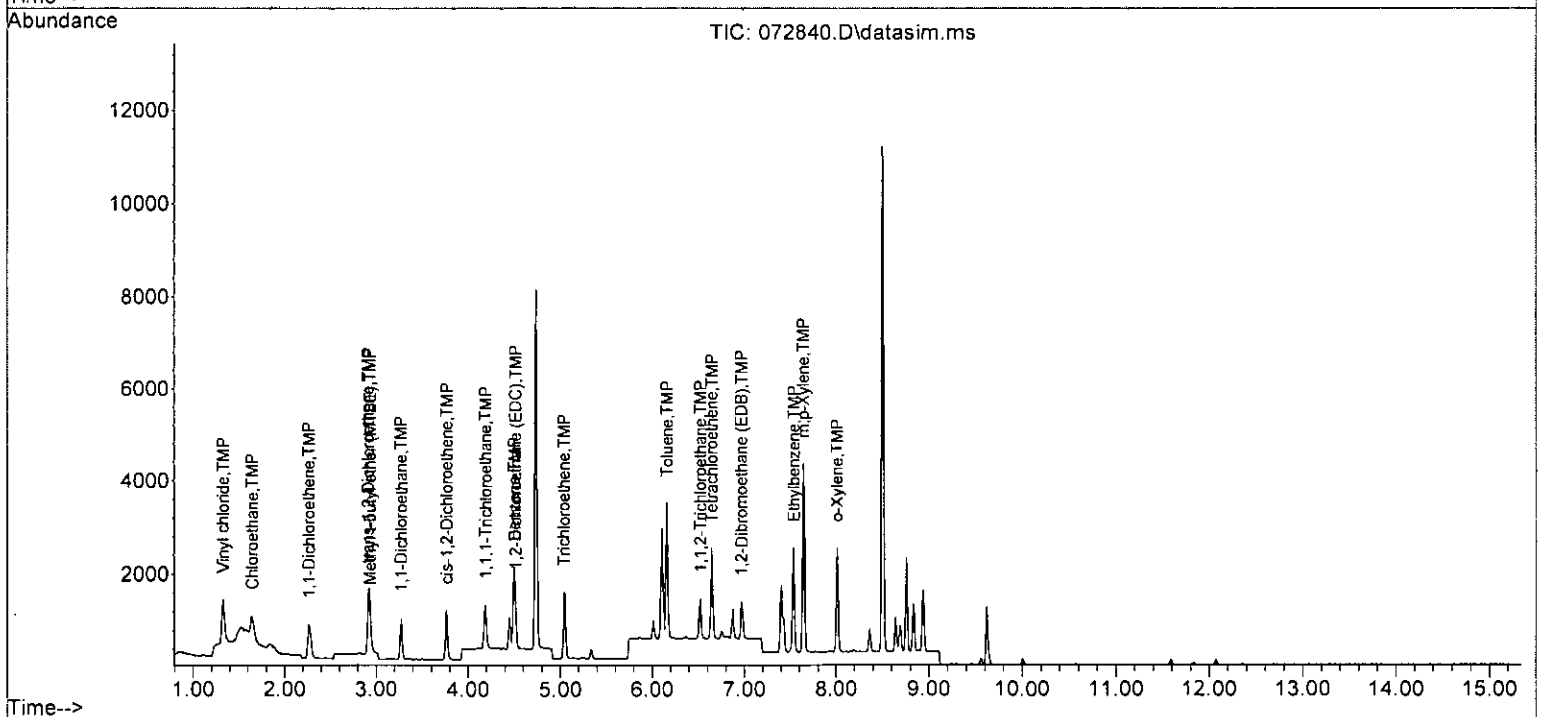
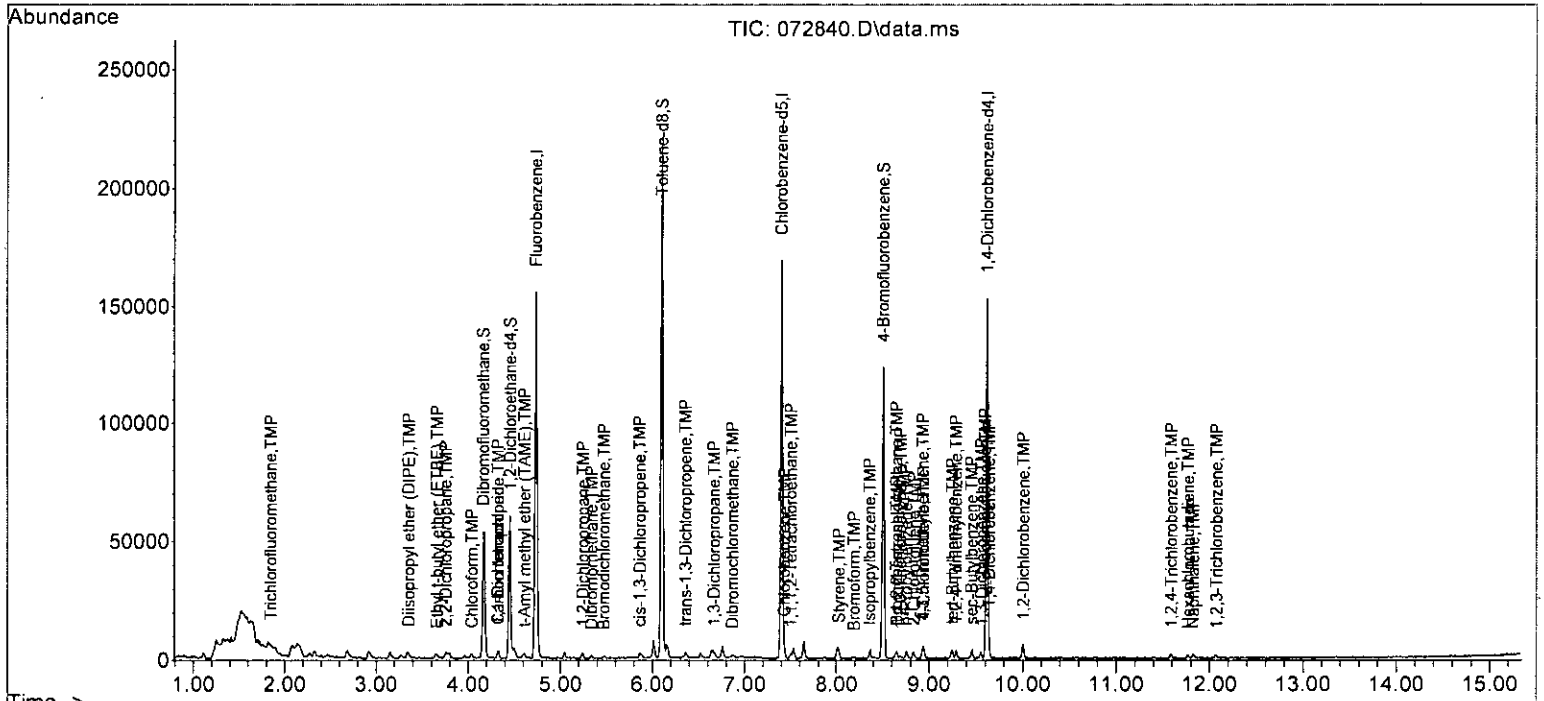
Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	5.86	75	895	0.189	ppb	85
40] Toluene	6.16	92	1675	0.199	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	832	0.199	ppb	69
42] 1,1,2-Trichloroethane	6.52	83	511	0.200	ppb #	71
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	6.67	76	778	0.172	ppb	96
45] Tetrachloroethene	6.64	164	660	0.192	ppb	97
46) Dibromochloromethane	6.87	129	620	0.180	ppb	68
47] 1,2-Dibromoethane (EDB)	6.97	107	655	0.188	ppb	96
48) Chlorobenzene	7.43	112	1374	0.186	ppb	96
49] Ethylbenzene	7.54	91	2370	0.189	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	568	0.218	ppb	85
51] m,p-Xylene	7.64	106	1843	0.376	ppb	98
52] o-Xylene	8.01	106	893	0.188	ppb	100
53) Styrene	8.03	104	1504	0.210	ppb	100
54) Isopropylbenzene	8.36	105	2310	0.213	ppb	77
55) Bromoform	8.19	173	408	0.216	ppb	85
58) n-Propylbenzene	8.75	91	2279	0.187	ppb	100
59) Bromobenzene	8.65	156	663	0.222	ppb	88
60) 1,3,5-Trimethylbenzene	8.93	105	1706	0.201	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	691	0.245	ppb	68
62) 1,2,3-Trichloropropane	8.69	75	592	0.245	ppb	70
63) 2-Chlorotoluene	8.84	91	1453	0.203	ppb	97
64) 4-Chlorotoluene	8.94	91	1605	0.194	ppb	99
65) tert-Butylbenzene	9.25	119	1590	0.205	ppb	88
66) 1,2,4-Trimethylbenzene	9.29	105	1765	0.197	ppb	98
67) sec-Butylbenzene	9.45	105	2313	0.203	ppb	90
68) p-Isopropyltoluene	9.60	119	1558	0.164	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	985	0.186	ppb	91
70) 1,4-Dichlorobenzene	9.64	146	1151	0.212	ppb	79
71) 1,2-Dichlorobenzene	10.01	146	1042	0.207	ppb	84
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.59	180	675	0.203	ppb	88
74) Hexachlorobutadiene	11.77	225	301	0.168	ppb	79
75) Naphthalene	11.82	128	1558	0.199	ppb	88
76) 1,2,3-Trichlorobenzene	12.07	180	587	0.194	ppb	81

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	10.265	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.200	0.183	8.5	95	0.01
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	0.200	0.258	-29.0#	101	0.01
9 TMP	Trichlorofluoromethane	0.200	0.185	7.5	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.200	0.188	6.0	102	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.15#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.190	5.0	101	0.01
17 TMP	trans-1,2-Dichloroethene	0.200	0.219	-9.5	106	0.00
18 TMP	Diisopropyl ether (DIPE)	0.200	0.220	-10.0	100	0.01
19 TMP	1,1-Dichloroethane	0.200	0.193	3.5	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.213	-6.5	100	0.01
21 TMP	2,2-Dichloropropane	0.200	0.203	-1.5	100	-0.01
22 TMP	cis-1,2-Dichloroethene	0.200	0.191	4.5	100	0.01
23 TMP	Chloroform	0.200	0.197	1.5	100	0.01
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.198	1.0	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.188	6.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.200	0.193	3.5	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.174	13.0	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.210	-5.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.372	-3.7	100	0.00
31 TMP	Benzene	0.200	0.199	0.5	100	0.01
32 TMP	Trichloroethene	0.200	0.183	8.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.221	-10.5	100	0.01
34 TMP	Bromodichloromethane	0.200	0.176	12.0	100	0.00
35 S	Toluene-d8	10.000	10.062	-0.6	100	0.00
36 TMP	Dibromomethane	0.200	0.188	6.0	100	0.00
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.200	0.189	5.5	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.200	0.199	0.5	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.200	0.199	0.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.200	0.200	0.0	100	0.01
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.172	14.0	100	0.00
45 TMP Tetrachloroethene	0.200	0.192	4.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.180	10.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.188	6.0	100	0.00
48 TMP Chlorobenzene	0.200	0.186	7.0	100	0.00
49 TMP Ethylbenzene	0.200	0.189	5.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.218	-9.0	100	0.00
51 TMP m,p-Xylene	0.400	0.376	6.0	100	0.00
52 TMP o-Xylene	0.200	0.188	6.0	100	0.00
53 TMP Styrene	0.200	0.210	-5.0	100	0.00
54 TMP Isopropylbenzene	0.200	0.213	-6.5	100	0.00
55 TMP Bromoform	0.200	0.216	-8.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.069	-0.7	100	0.00
58 TMP n-Propylbenzene	0.200	0.187	6.5	100	-0.01
59 TMP Bromobenzene	0.200	0.222	-11.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.201	-0.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.245	-22.5#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.245	-22.5#	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.203	-1.5	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.194	3.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.205	-2.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.197	1.5	100	0.00
67 TMP sec-Butylbenzene	0.200	0.203	-1.5	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.164	18.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.186	7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.212	-6.0	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.207	-3.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.200	0.000	100.0#	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.203	-1.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.168	16.0	100	0.00
75 TMP Naphthalene	0.200	0.199	0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.194	3.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.01
3 S Dibromofluoromethane	0.271	0.279	-3.0	100	0.00
4 TMP Dichlorodifluoromethane	0.906	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.769	0.702	8.7	95	0.01
7 TMP Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.323	0.416	-28.8#	101	0.01
9 TMP Trichlorofluoromethane	1.197	1.105	7.7	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP Acetone	0.040	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.288	0.268	6.9	102	0.00
13 TMP Hexane	0.394	0.000#	100.0#	0#	-3.15#
14 TMP Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.596	4.9	101	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.299	-6.0	106	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	1.030	-10.0	100	0.01
19 TMP 1,1-Dichloroethane	0.486	0.468	3.7	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.281	-6.4	100	0.01
21 TMP 2,2-Dichloropropane	0.269	0.273	-1.5	100	-0.01
22 TMP cis-1,2-Dichloroethene	0.289	0.276	4.5	100	0.01
23 TMP Chloroform	0.454	0.447	1.5	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.594	0.588	1.0	100	0.01
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.418	9.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.391	3.7	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.298	13.1	100	0.00
29 TMP Carbon tetrachloride	0.354	0.373	-5.4	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	1.042	1.017	2.4	100	0.01
32 TMP Trichloroethene	0.326	0.293	10.1	100	0.00
33 TMP 1,2-Dichloropropane	0.269	0.298	-10.8	100	0.01
34 TMP Bromodichloromethane	0.327	0.287	12.2	100	0.00
35 S Toluene-d8	1.111	1.118	-0.6	100	0.00
36 TMP Dibromomethane	0.174	0.163	6.3	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.449	0.425	5.3	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	1.058	3.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.525	0.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.323	0.0	100	0.01
43 TMP 2-Hexanone	0.451	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072840.D  
 Acq On : 28 Jul 2023 10:36 pm  
 Operator : MD  
 Sample : 0.2 ppb 8260 ICAL 69-198i  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.491	14.2	100	0.00
45 TMP Tetrachloroethene	0.446	0.417	6.5	100	0.00
46 TMP Dibromochloromethane	0.434	0.392	9.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.414	11.7	100	0.00
48 TMP Chlorobenzene	0.931	0.868	6.8	100	0.00
49 TMP Ethylbenzene	1.609	1.497	7.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.359	-9.1	100	0.00
51 TMP m,p-Xylene	0.630	0.582	7.6	100	0.00
52 TMP o-Xylene	0.606	0.564	6.9	100	0.00
53 TMP Styrene	0.906	0.950	-4.9	100	0.00
54 TMP Isopropylbenzene	1.367	1.459	-6.7	100	0.00
55 TMP Bromoform	0.239	0.258	-7.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.907	-0.7	100	0.00
58 TMP n-Propylbenzene	3.326	3.104	6.7	100	-0.01
59 TMP Bromobenzene	0.814	0.903	-10.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.323	-0.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.941	-22.5#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.806	-22.5#	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.979	-1.6	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.186	3.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.166	-2.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.404	1.6	100	0.00
67 TMP sec-Butylbenzene	3.109	3.150	-1.3	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.122	18.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.342	7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.568	-6.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.419	-3.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.908	0.919	-1.2	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.410	16.2	100	0.00
75 TMP Naphthalene	2.138	2.122	0.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.799	3.3	100	0.00

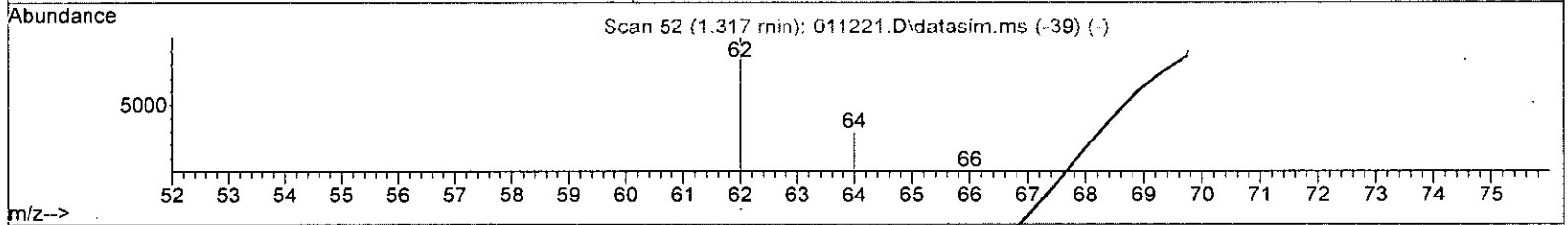
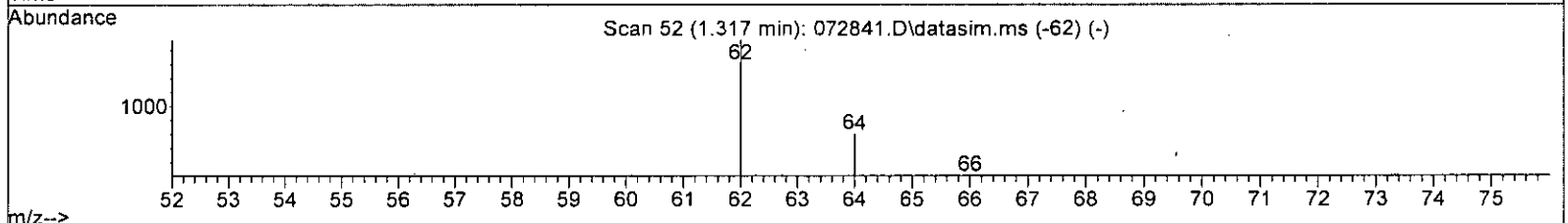
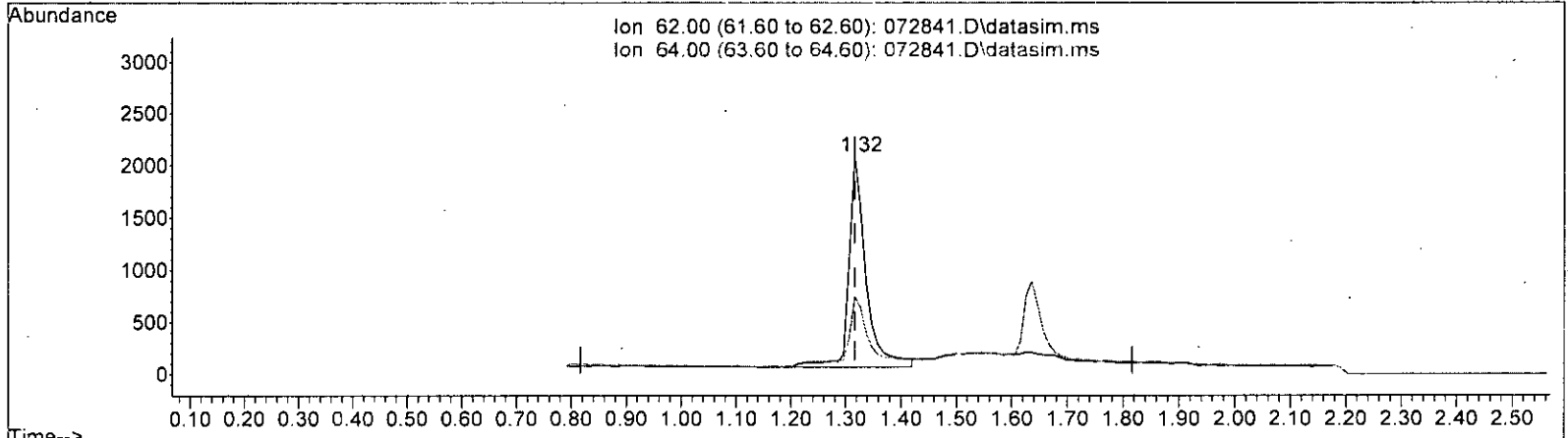
(#) = Out of Range

SPCC's out = 12 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

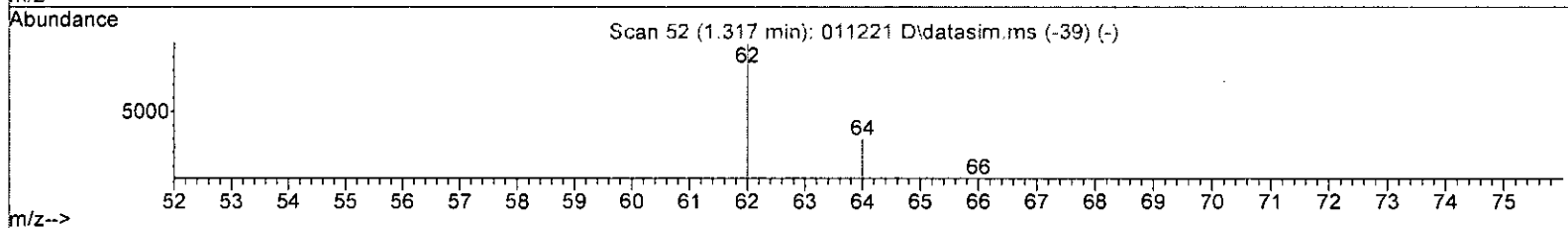
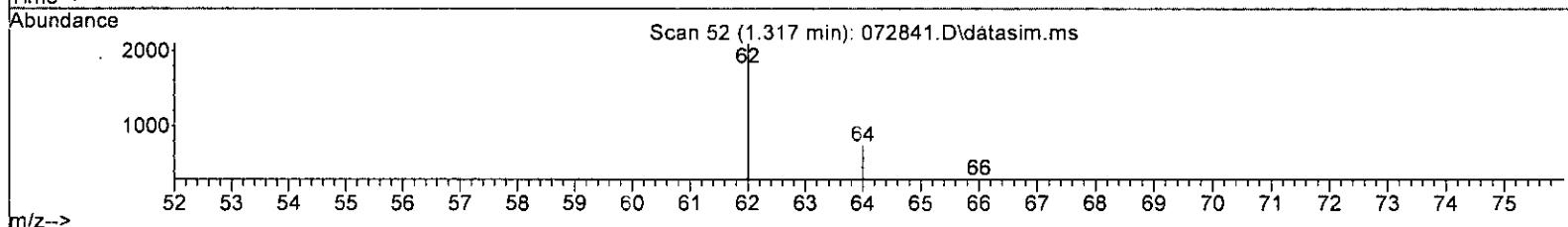
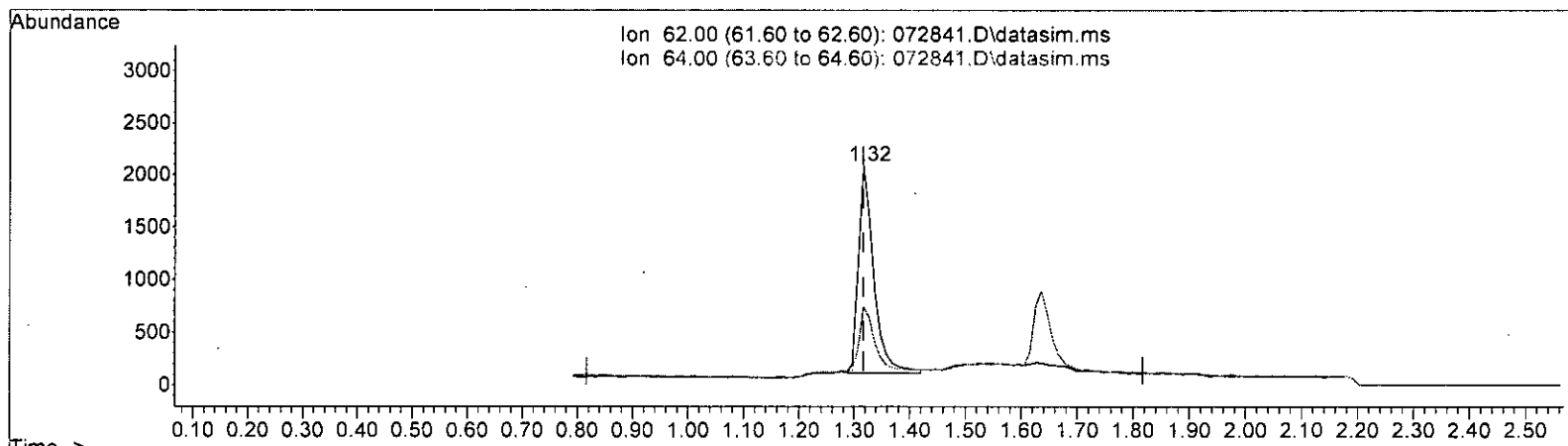
*m 7/29*

(6) Vinyl chloride (TMP)		
retention	response	ppb
1.317min (+ 0.000)	4368	0.552
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	32.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms *W 7/20*

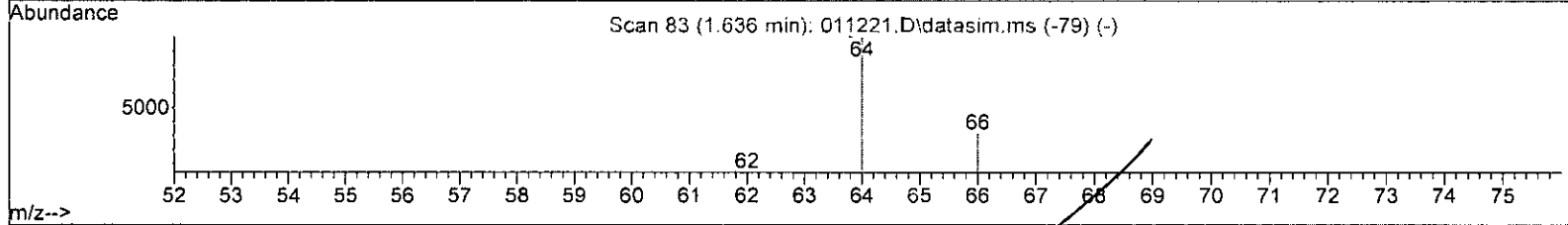
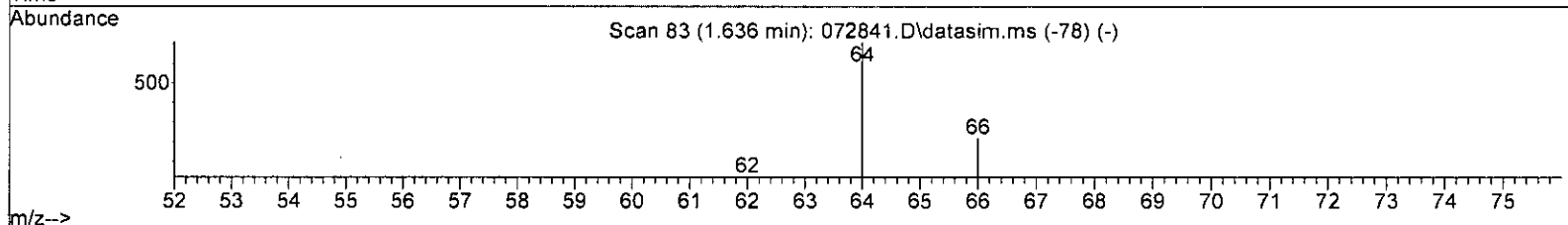
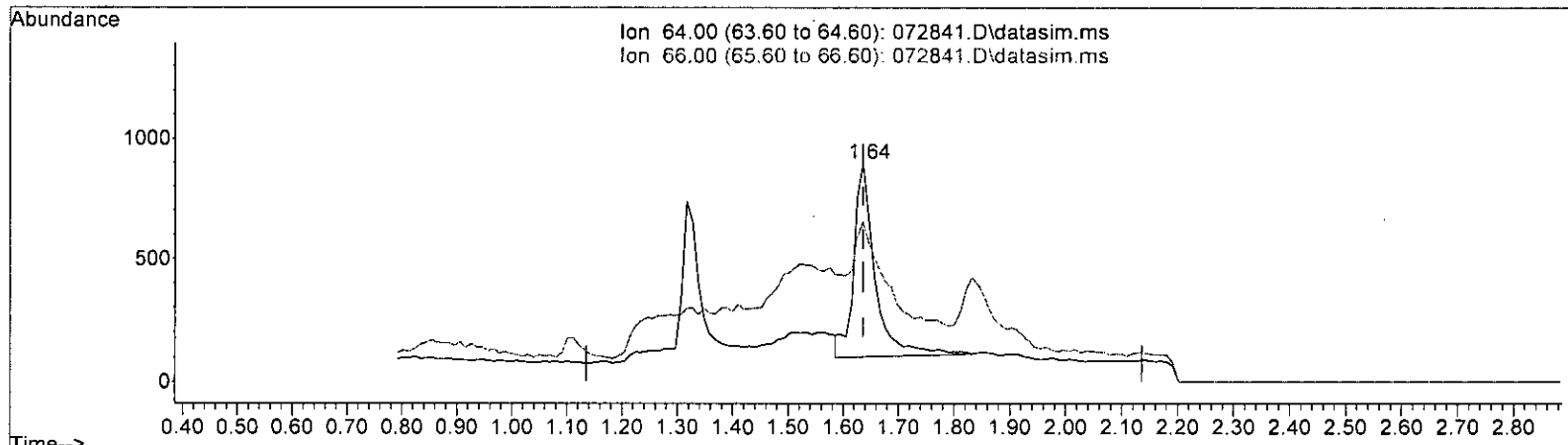
(6) Vinyl chloride (TMP)			
1.317min (+ 0.000) 0.478 ppb m			
response	3777		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	35.27	
0.00	0.00	0.00	
0.00	0.00	0.00	



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(8) Chloroethane (TMP)

1.636min (+ 0.000) 0.637 ppb

response 2115

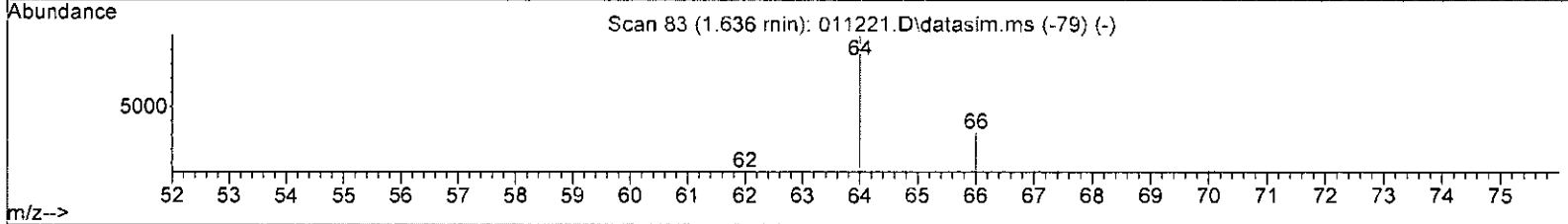
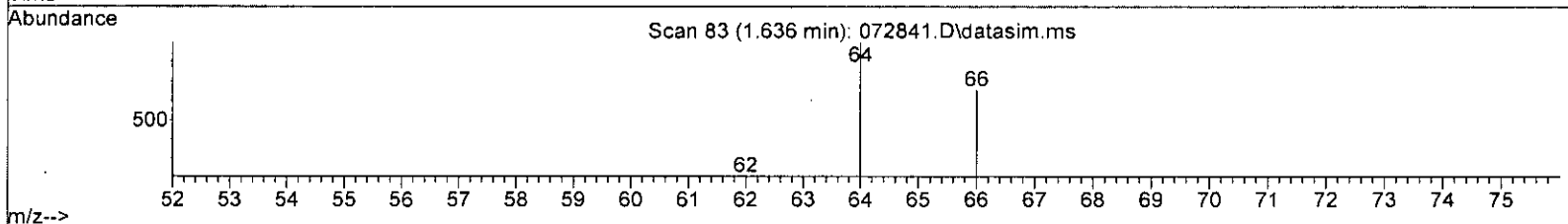
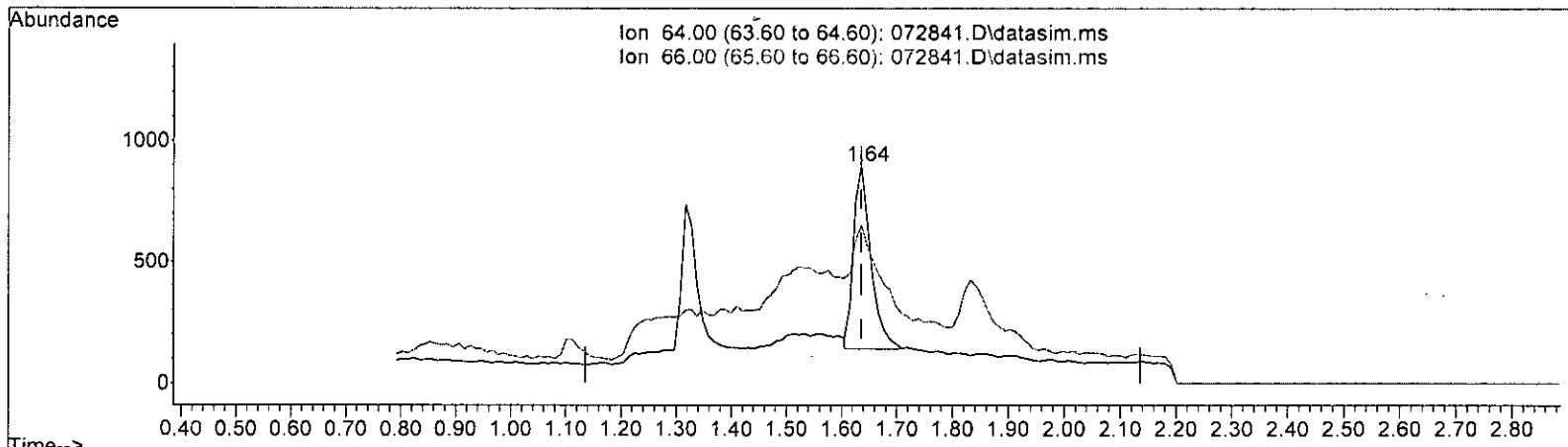
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.80	29.04
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: M 7/29*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(8) Chloroethane (TMP) *m 7/20*

1.636min (+ 0.000) 0.494 ppb m

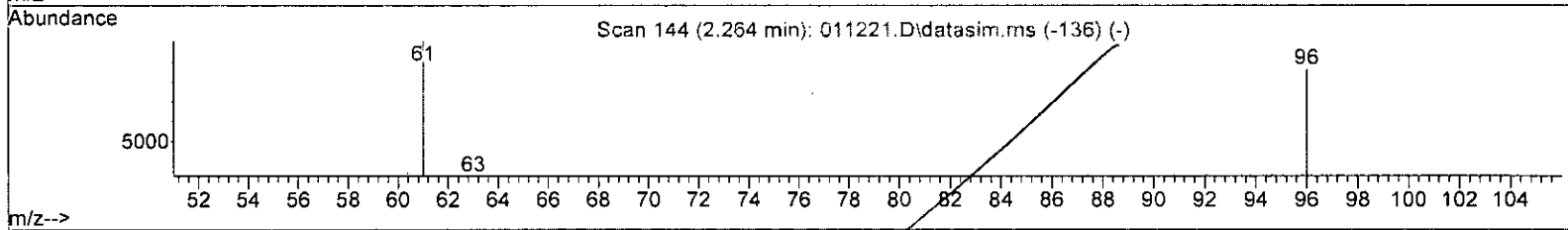
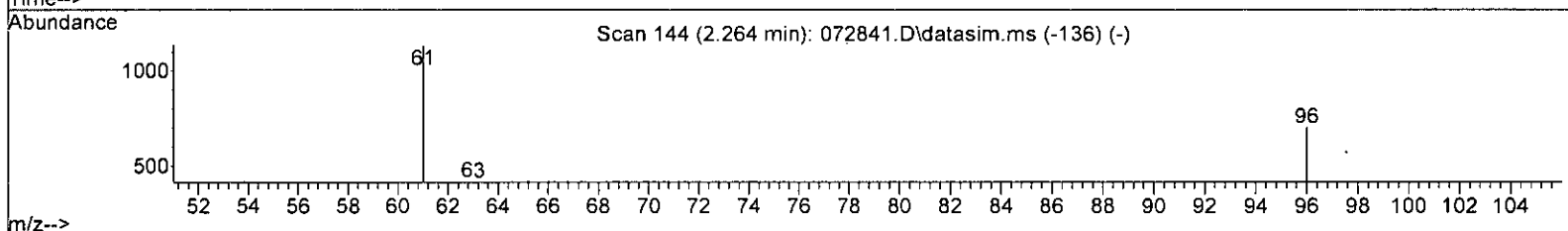
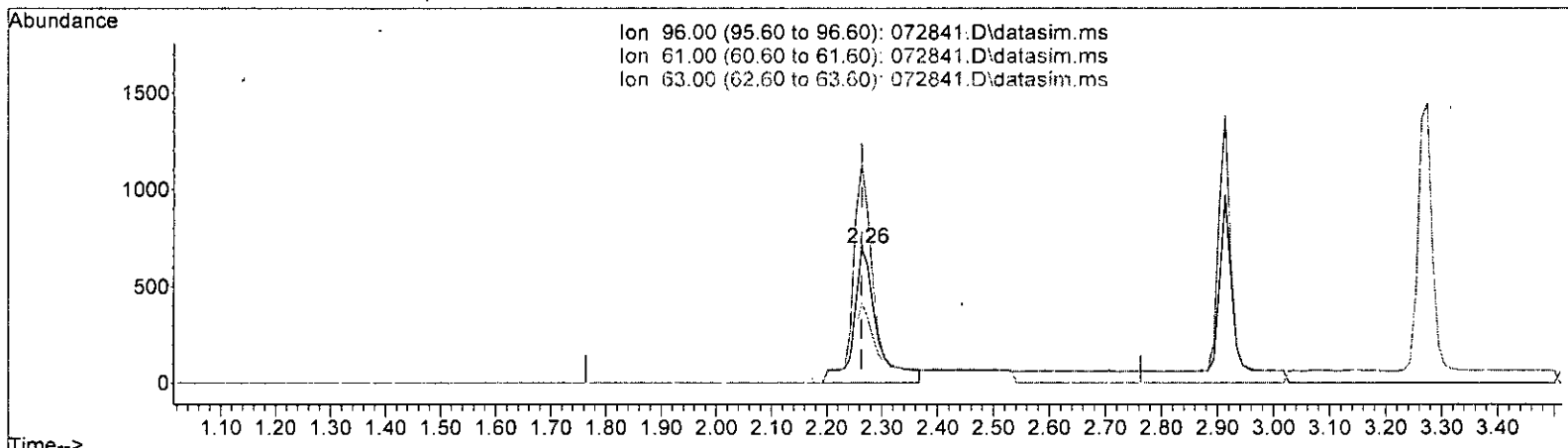
response 1639

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.80	72.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.264min (-0.000) 0.723 ppb

response 2038

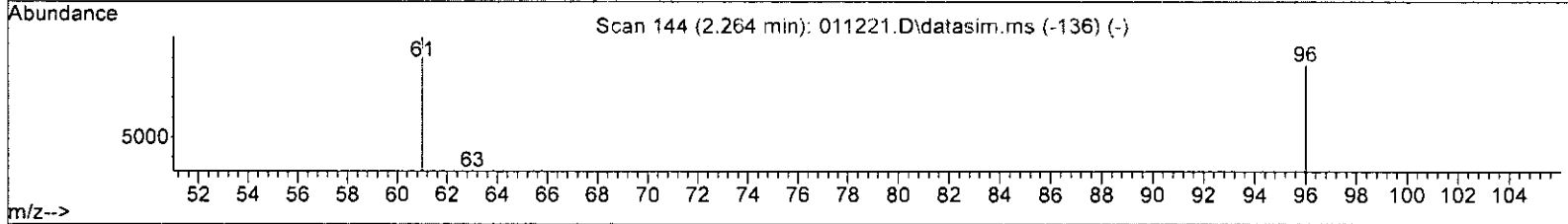
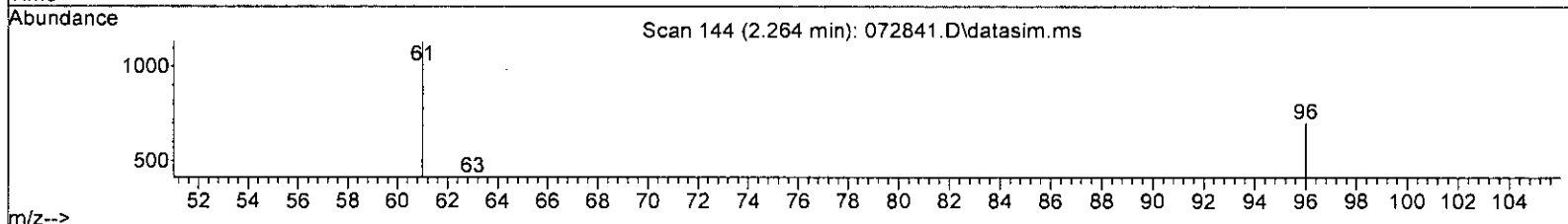
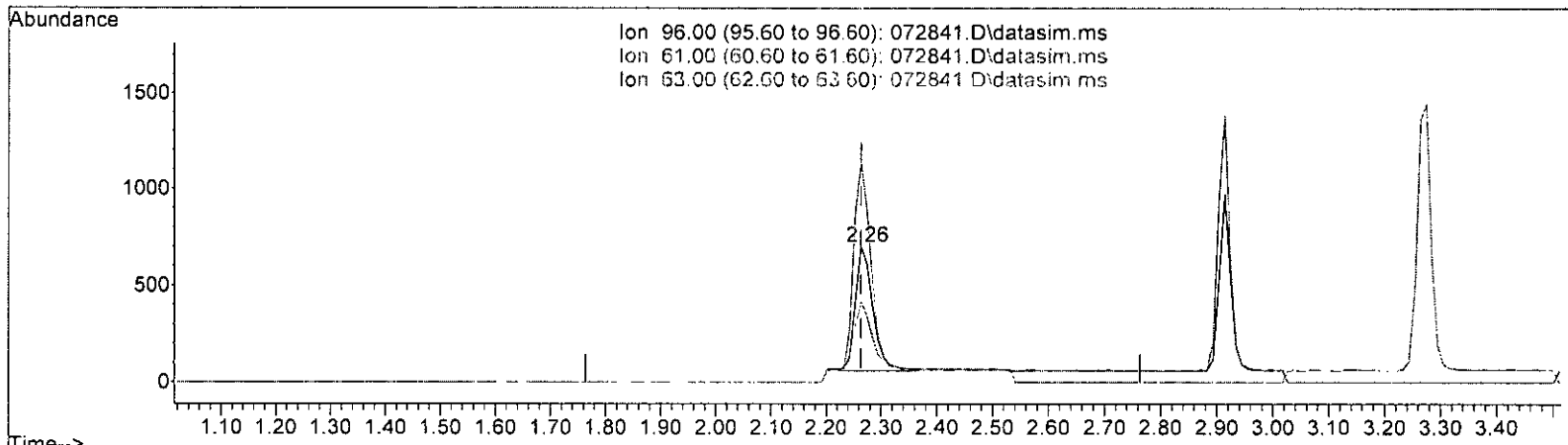
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	162.32
63.00	54.90	59.46
0.00	0.00	0.00

*MD 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(12) 1,1-Dichloroethene (TMP) *6/7/20*

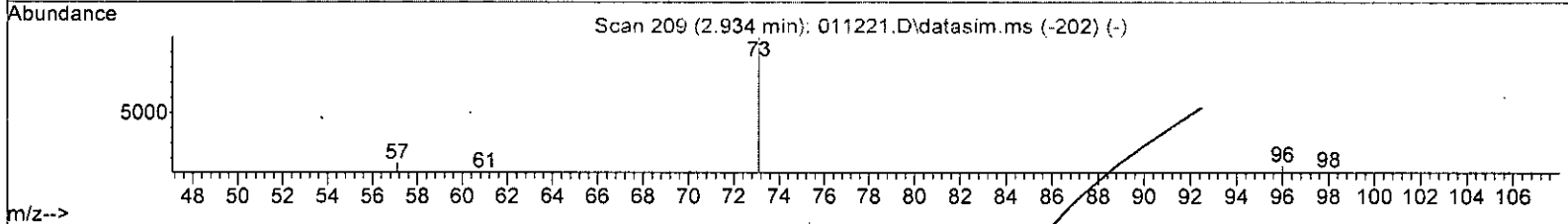
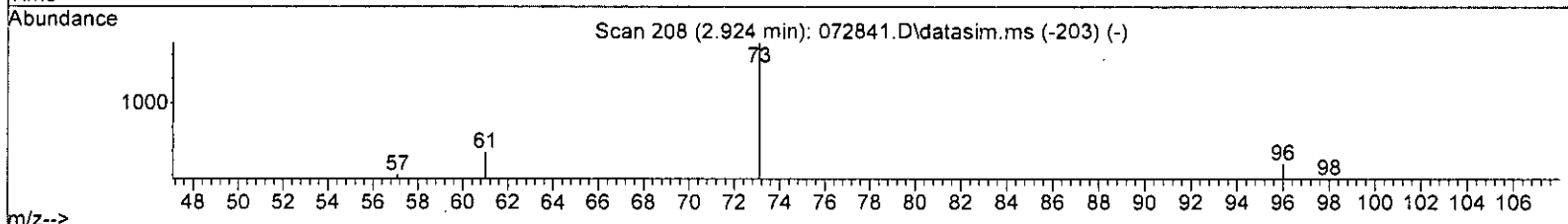
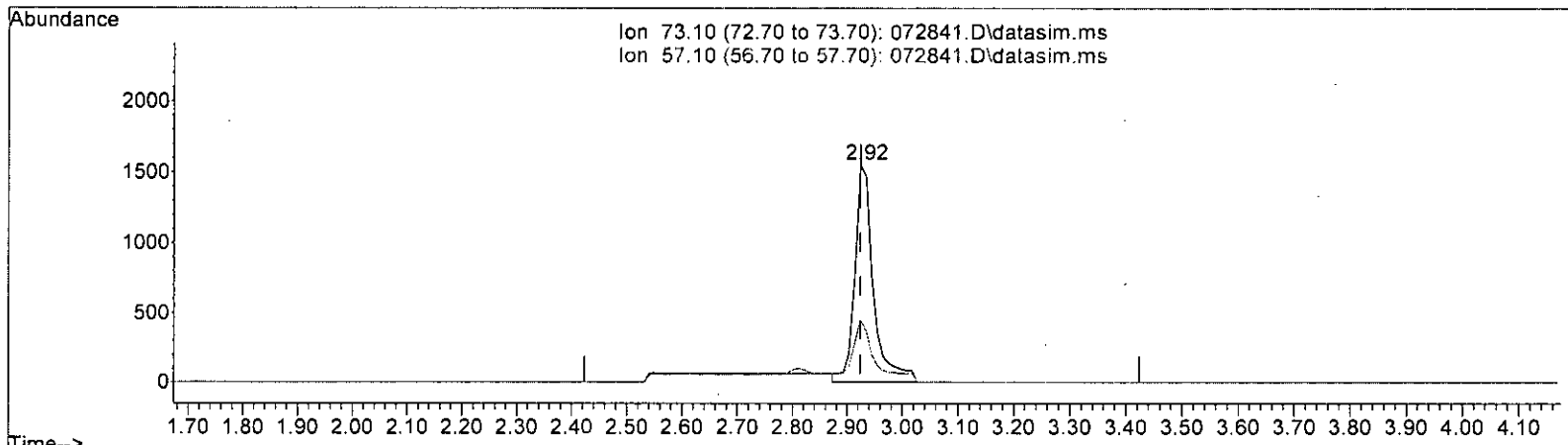
2.264min (-0.000) 0.489 ppb m

response	1387
Ion	Exp% Act%
96.00	100.00 100.00
61.00	162.90 162.32
63.00	54.90 59.46
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

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

2.924min (-0.000) 0.569 ppb

response 3674

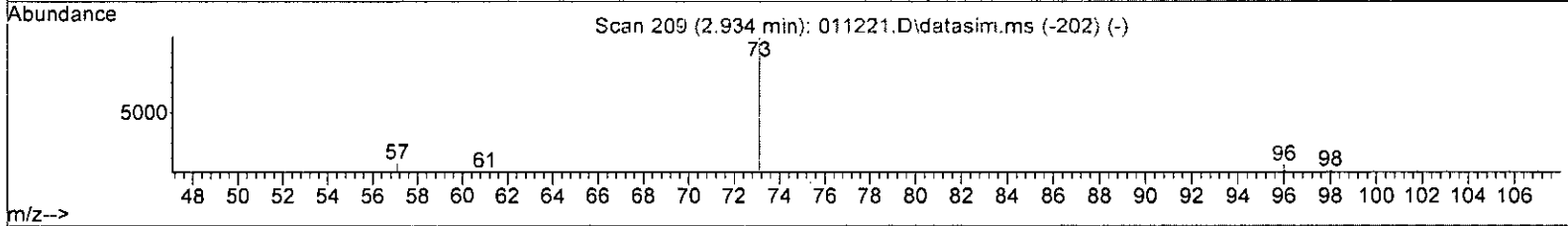
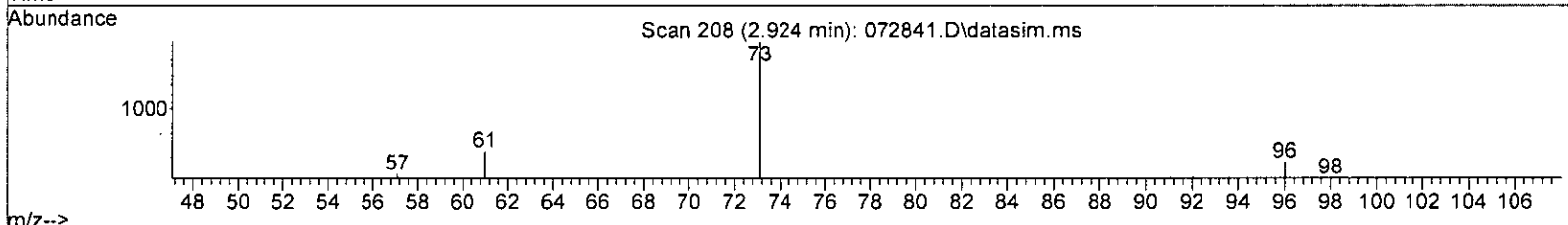
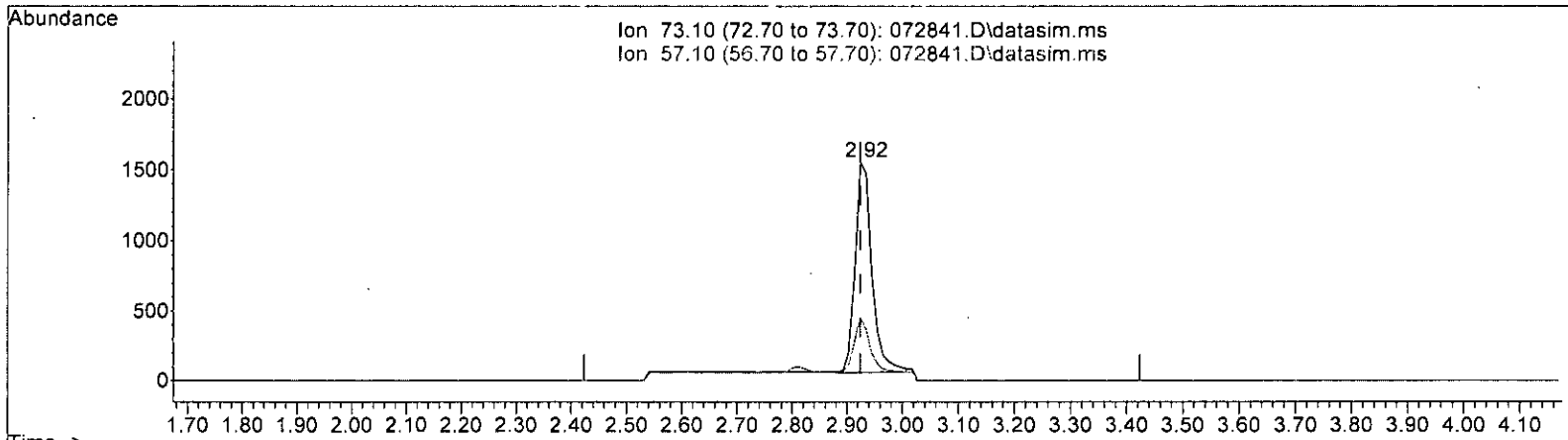
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	29.41
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/21*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP) m 7/29

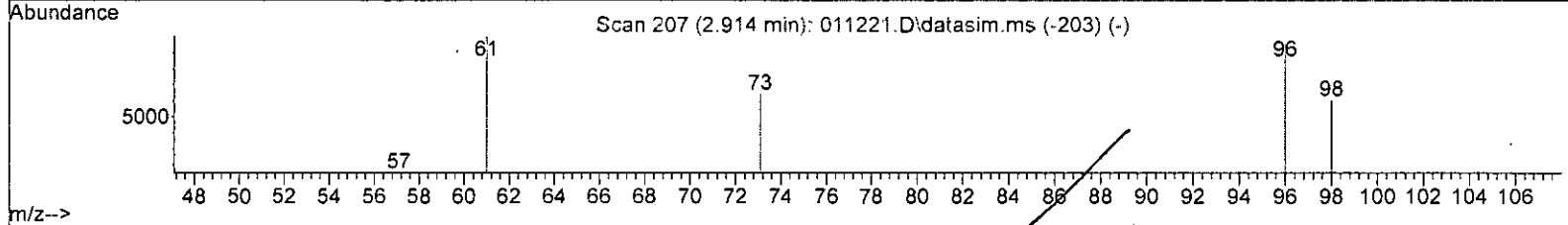
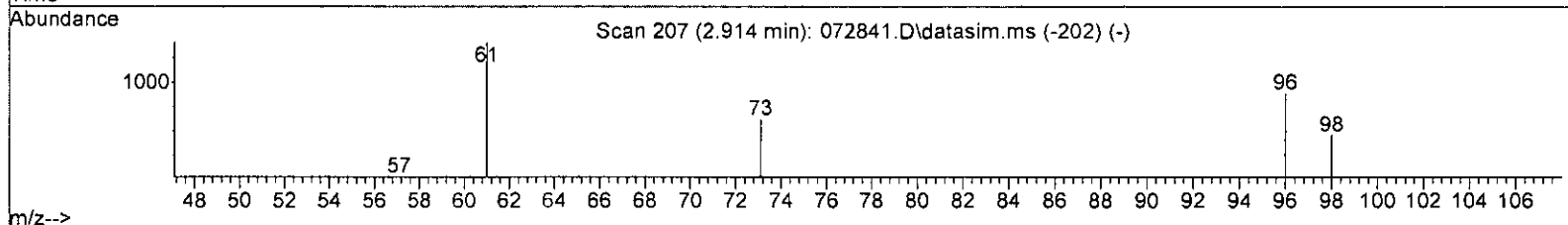
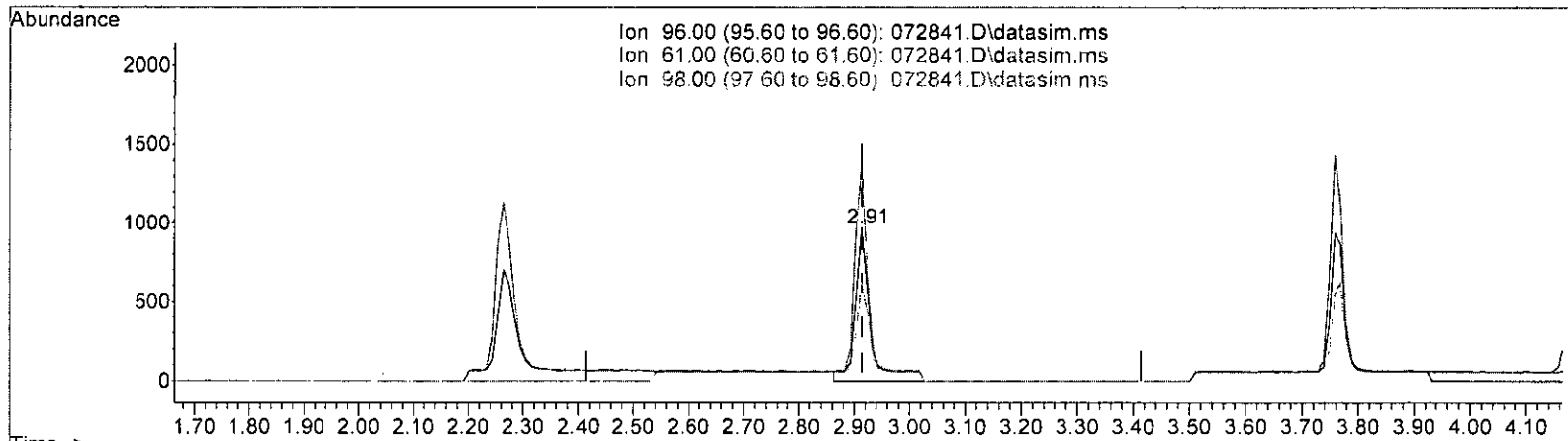
2.924min (-0.000) 0.488 ppb m

response	3150
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 29.41
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

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

2.914min (-0.000) 0.698 ppb

response 1870

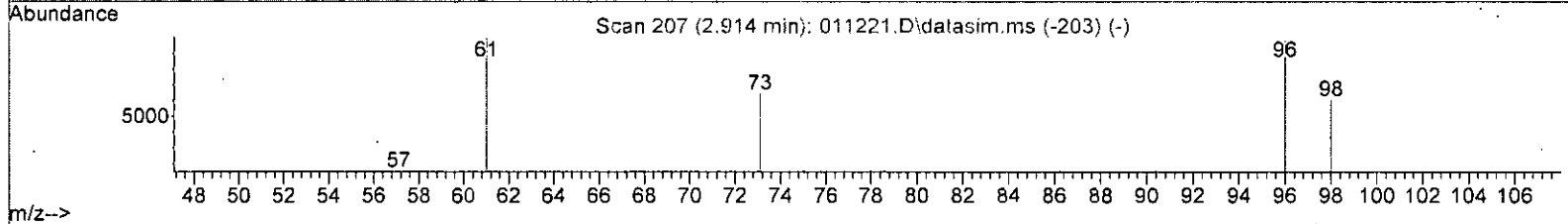
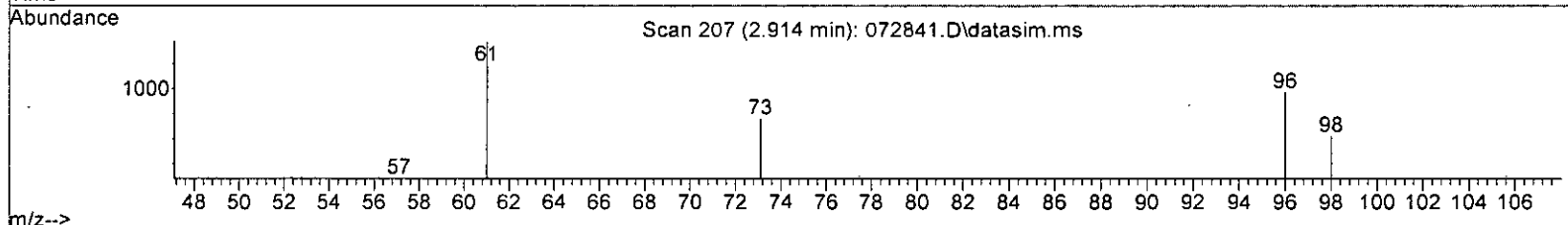
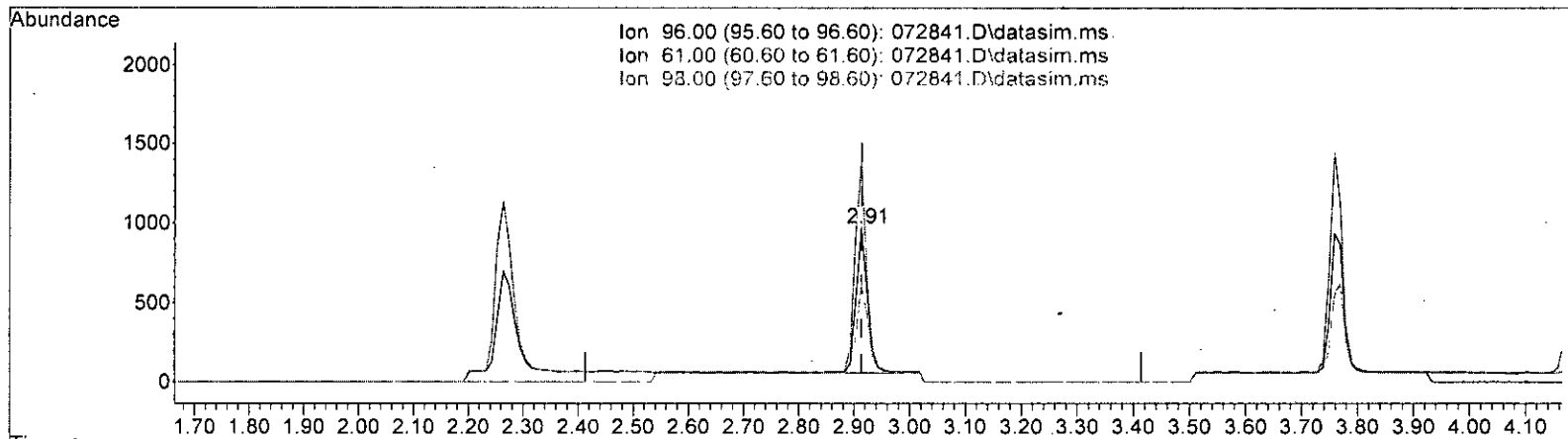
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	142.46
98.00	60.80	63.84
0.00	0.00	0.00

*MD/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) 47/28

2.914min (-0.000) 0.499 ppb m

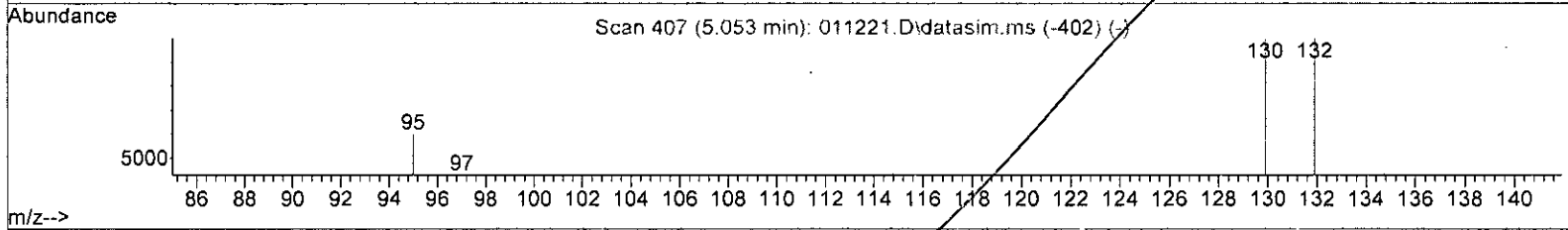
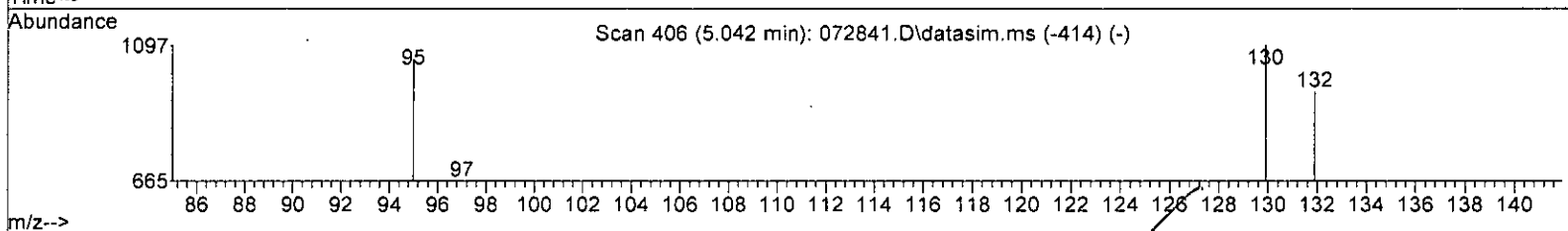
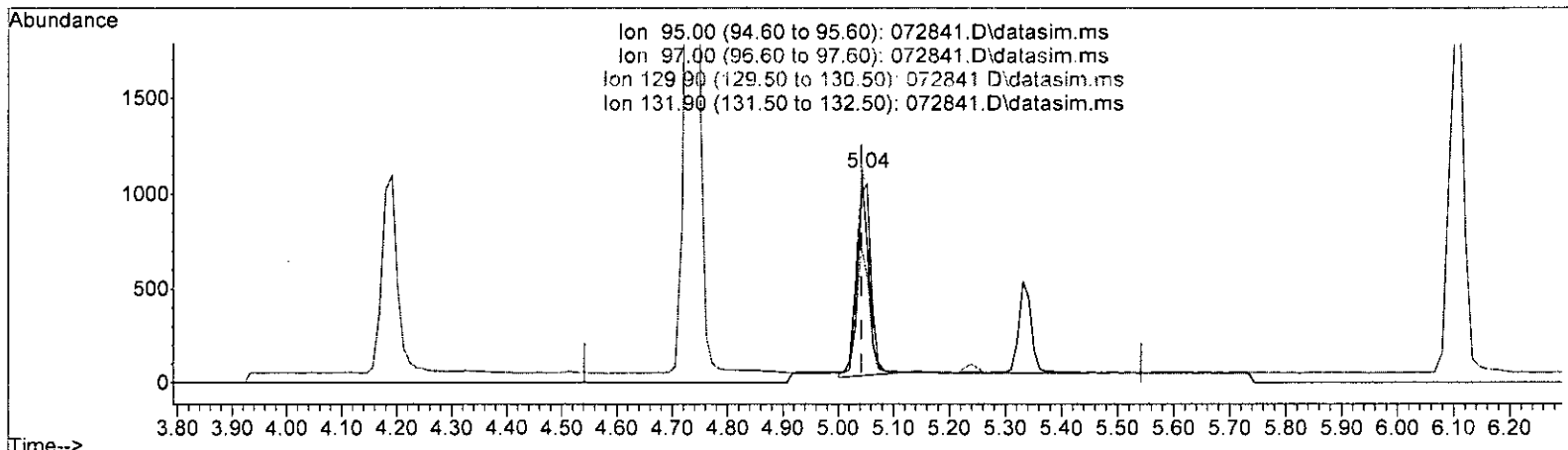
response	1349
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 142.46
98.00	60.80 63.84
0.00	0.00 0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(32) Trichloroethene (TME) *in 7/29*

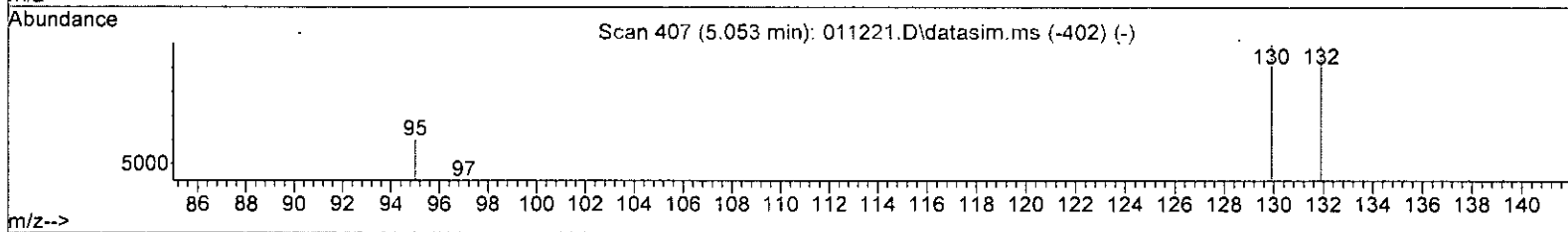
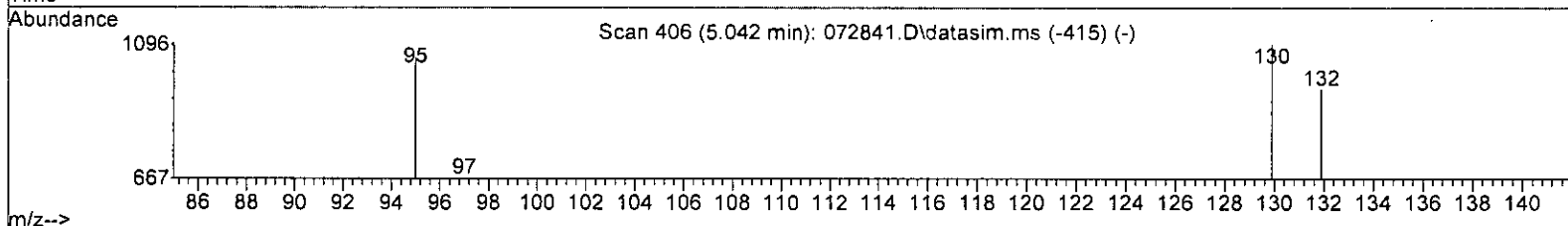
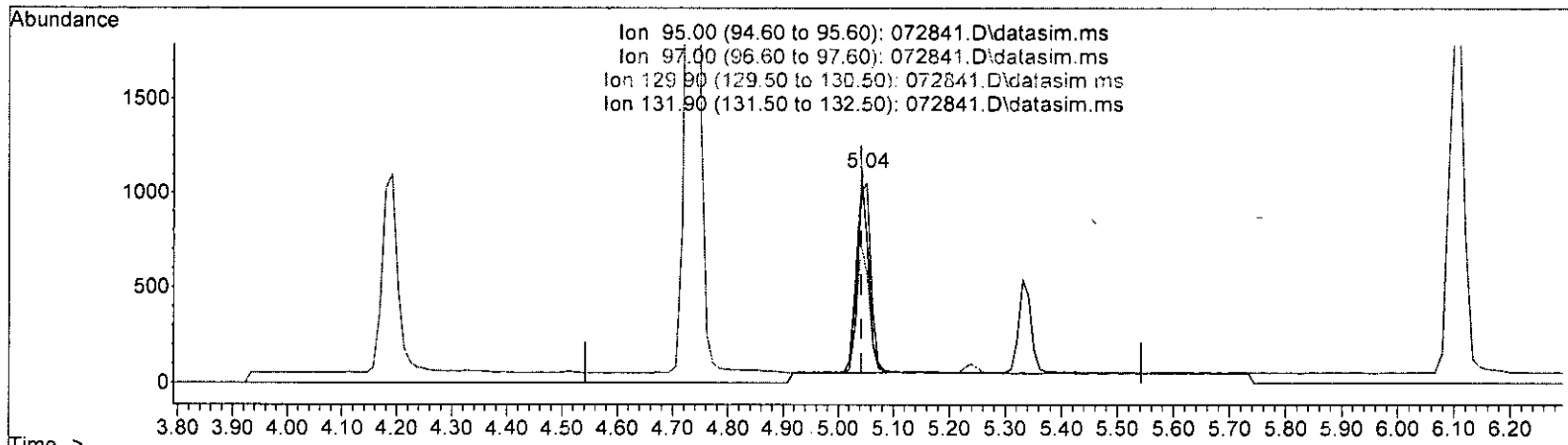
5.042min (+ 0.000) 0.522 ppb

response	1641
Ion	Exp% Act%
95.00	100.00 100.00
97.00	60.80 63.32
129.90	98.60 104.36
131.90	86.60 90.43

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072841.D\data.ms

(32) Trichloroethene (TMP) *m 7/29*

5.042min (+ 0.000) 0.490 ppb m

response 1543

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	64.86
129.90	98.60	103.69
131.90	86.60	90.45

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	102881	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	77973	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36990	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.16	113	28589	10.241	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.40%	
30) 1,2-Dichloroethane-d4	4.45	102	5991	9.691	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	96.90%	
35) Toluene-d8	6.10	98	114557	10.022	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	100.20%	
57) 4-Bromofluorobenzene	8.50	95	32961	9.893	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.90%	
<b>Target Compounds</b>							
2) Ethanol	2.32	45	243	No Calib			
4) Dichlorodifluoromethane	1.12	85	4667	0.501	ppb	92	
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.32	62	3777m	0.478	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.64	64	1639m	0.494	ppb		
9) Trichlorofluoromethane	1.83	101	6226	0.505	ppb	93	
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	2.32	58	1113	2.733	ppb	# 77	
12] 1,1-Dichloroethene	2.26	96	1387m	0.489	ppb		
13) Hexane	3.15	57	2208	0.545	ppb	97	
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.92	73	3150m	0.488	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1349m	0.499	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	4602	0.478	ppb	93	
19] 1,1-Dichloroethane	3.27	63	2408	0.482	ppb	97	
20) Ethyl t-butyl ether (E...)	3.65	87	1357	0.500	ppb	93	
21) 2,2-Dichloropropane	3.76	77	1449	0.524	ppb	57	
22] cis-1,2-Dichloroethene	3.76	96	1438	0.484	ppb	87	
23) Chloroform	4.03	83	2392	0.512	ppb	89	
24) 2-Butanone (MEK)	3.78	43	5317	2.683	ppb	97	
25) t-Amyl methyl ether (T...)	4.61	73	3071	0.503	ppb	92	
26] 1,2-Dichloroethane (EDC)	4.52	62	2116	0.511	ppb	97	
27] 1,1,1-Trichloroethane	4.19	97	2075	0.497	ppb	98	
28) 1,1-Dichloropropene	4.32	75	1950	0.552	ppb	97	
29) Carbon tetrachloride	4.32	117	1771	0.486	ppb	94	
31] Benzene	4.49	78	5175	0.507	ppb	90	
32] Trichloroethene	5.04	95	1543m	0.490	ppb		
33) 1,2-Dichloropropane	5.23	63	1412	0.510	ppb	# 88	
34) Bromodichloromethane	5.47	83	1739	0.517	ppb	85	
36) Dibromomethane	5.34	93	972	0.544	ppb	95	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

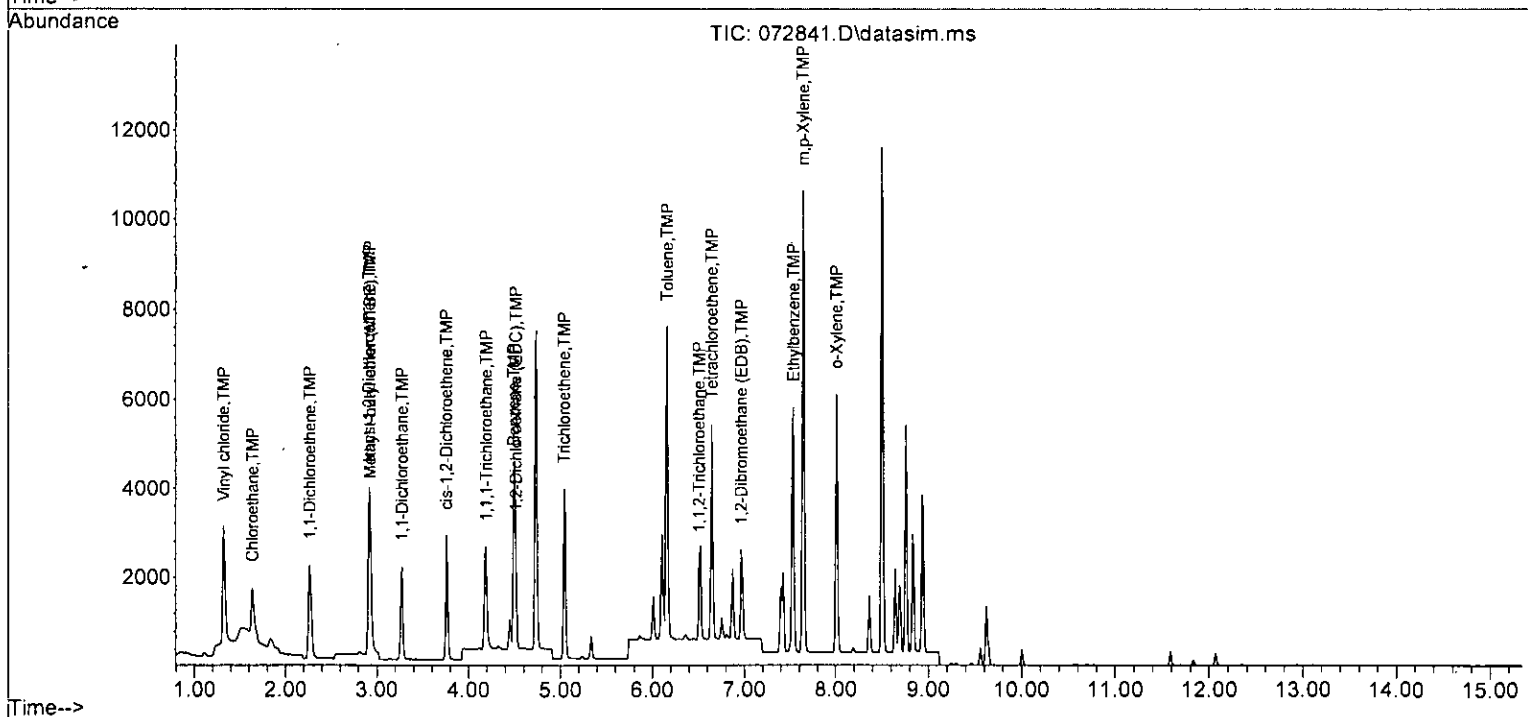
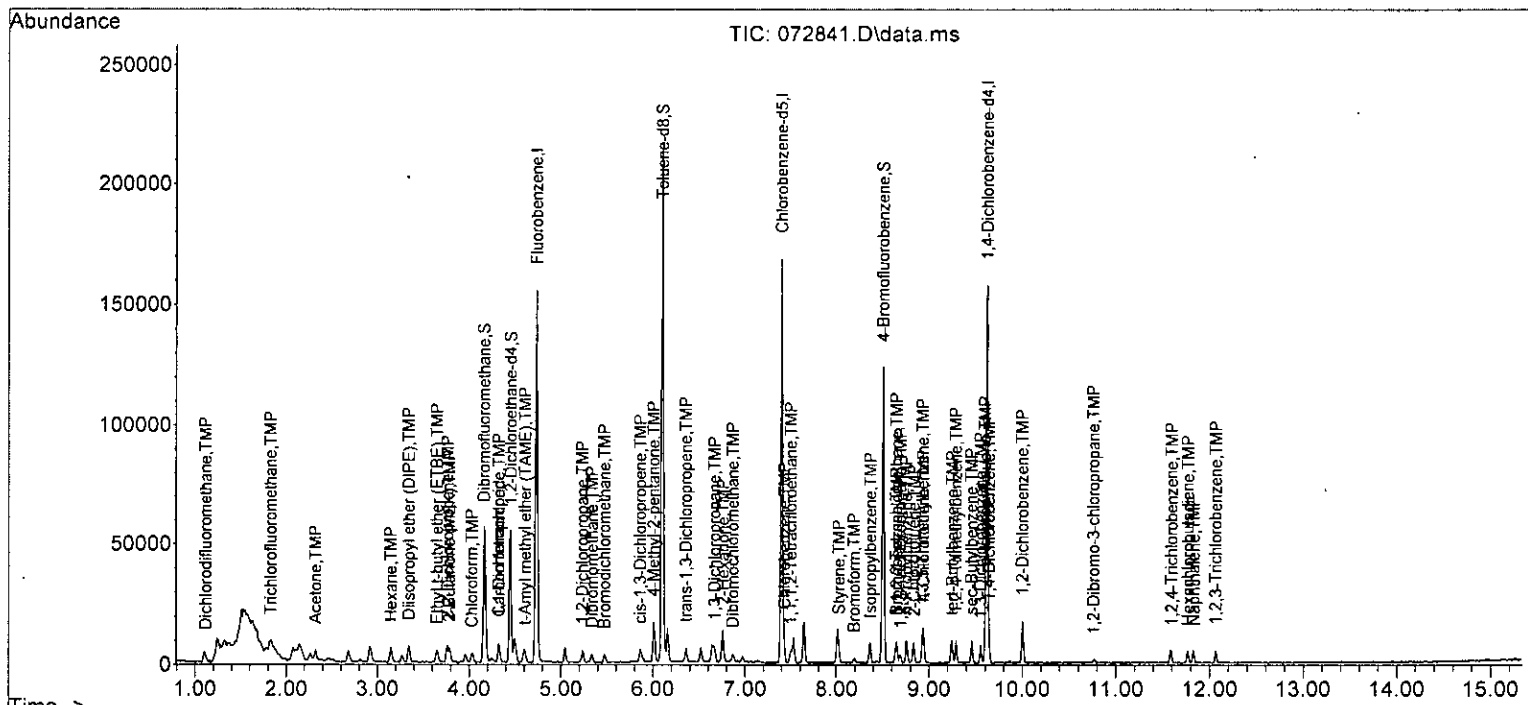
Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	1370	2.359	ppb #	64
38) cis-1,3-Dichloropropene	5.86	75	2177	0.471	ppb	89
40] Toluene	6.16	92	4058	0.512	ppb	95
41) trans-1,3-Dichloropropene	6.36	75	1858	0.452	ppb	95
42] 1,1,2-Trichloroethane	6.51	83	1267	0.502	ppb	92
43) 2-Hexanone	6.76	43	9119	2.594	ppb	96
44) 1,3-Dichloropropane	6.67	76	2417	0.542	ppb	82
45] Tetrachloroethene	6.64	164	1597	0.504	ppb	96
46) Dibromochloromethane	6.87	129	1663	0.491	ppb	98
47] 1,2-Dibromoethane (EDB)	6.97	107	1635	0.491	ppb	98
48) Chlorobenzene	7.43	112	3620	0.499	ppb	98
49] Ethylbenzene	7.54	91	5928	0.501	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	1190	0.464	ppb	95
51] m,p-Xylene	7.64	106	4646	1.004	ppb	100
52] o-Xylene	8.01	106	2230	0.492	ppb	99
53) Styrene	8.03	104	3423	0.484	ppb	96
54) Isopropylbenzene	8.37	105	5242	0.492	ppb	92
55) Bromoform	8.19	173	901	0.484	ppb	77
58) n-Propylbenzene	8.75	91	6826	0.555	ppb	92
59) Bromobenzene	8.65	156	1564	0.519	ppb	87
60) 1,3,5-Trimethylbenzene	8.93	105	4051	0.474	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.65	83	1516	0.534	ppb	82
62) 1,2,3-Trichloropropane	8.69	75	1438	0.591	ppb	97
63) 2-Chlorotoluene	8.84	91	3823	0.531	ppb	91
64) 4-Chlorotoluene	8.94	91	4111	0.492	ppb	99
65) tert-Butylbenzene	9.25	119	3949	0.505	ppb	90
66) 1,2,4-Trimethylbenzene	9.29	105	4406	0.487	ppb	99
67) sec-Butylbenzene	9.45	105	5666	0.493	ppb	96
68) p-Isopropyltoluene	9.60	119	4772	0.497	ppb	94
69) 1,3-Dichlorobenzene	9.55	146	2749	0.515	ppb	93
70) 1,4-Dichlorobenzene	9.64	146	2702	0.495	ppb	79
71) 1,2-Dichlorobenzene	10.00	146	2383	0.470	ppb	80
72) 1,2-Dibromo-3-chloropr...	10.76	75	323	0.599	ppb #	54
73) 1,2,4-Trichlorobenzene	11.60	180	1640	0.488	ppb	77
74) Hexachlorobutadiene	11.77	225	980	0.542	ppb	88
75) Naphthalene	11.83	128	3520	0.445	ppb	95
76) 1,2,3-Trichlorobenzene	12.07	180	1425	0.467	ppb	74

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	10.241	-2.4	100	0.00
4 TMP	Dichlorodifluoromethane	0.500	0.501	-0.2	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.500	0.478	4.4	86	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	0.500	0.494	1.2	77	0.00
9 TMP	Trichlorofluoromethane	0.500	0.505	-1.0	100	-0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.31#
11 TMP	Acetone	2.500	2.733	-9.3	100	0.00
12 TMP	1,1-Dichloroethene	0.500	0.489	2.2	68	0.00
13 TMP	Hexane	0.500	0.545	-9.0	100	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.500	0.488	2.4	86	0.00
17 TMP	trans-1,2-Dichloroethene	0.500	0.499	0.2	72	0.00
18 TMP	Diisopropyl ether (DIPE)	0.500	0.478	4.4	100	0.00
19 TMP	1,1-Dichloroethane	0.500	0.482	3.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.500	0.500	0.0	100	0.00
21 TMP	2,2-Dichloropropane	0.500	0.524	-4.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.500	0.484	3.2	100	0.00
23 TMP	Chloroform	0.500	0.512	-2.4	100	0.00
24 TMP	2-Butanone (MEK)	2.500	2.683	-7.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.500	0.503	-0.6	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.500	0.511	-2.2	100	0.00
27 TMP	1,1,1-Trichloroethane	0.500	0.497	0.6	100	0.00
28 TMP	1,1-Dichloropropene	0.500	0.552	-10.4	100	0.00
29 TMP	Carbon tetrachloride	0.500	0.486	2.8	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.691	3.1	100	0.00
31 TMP	Benzene	0.500	0.507	-1.4	100	0.00
32 TMP	Trichloroethene	0.500	0.490	2.0	94	0.00
33 TMP	1,2-Dichloropropane	0.500	0.510	-2.0	100	0.00
34 TMP	Bromodichloromethane	0.500	0.517	-3.4	100	0.00
35 S	Toluene-d8	10.000	10.022	-0.2	100	0.00
36 TMP	Dibromomethane	0.500	0.544	-8.8	100	0.00
37 TMP	4-Methyl-2-pentanone	2.500	2.359	5.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.500	0.471	5.8	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.500	0.512	-2.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.500	0.452	9.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.500	0.502	-0.4	100	0.00
43 TMP	2-Hexanone	2.500	2.594	-3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.542	-8.4	100	0.00
45 TMP Tetrachloroethene	0.500	0.504	-0.8	100	0.00
46 TMP Dibromochloromethane	0.500	0.491	1.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.491	1.8	100	0.00
48 TMP Chlorobenzene	0.500	0.499	0.2	100	0.00
49 TMP Ethylbenzene	0.500	0.501	-0.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.464	7.2	100	0.00
51 TMP m,p-Xylene	1.000	1.004	-0.4	100	0.00
52 TMP o-Xylene	0.500	0.492	1.6	100	0.00
53 TMP Styrene	0.500	0.484	3.2	100	0.00
54 TMP Isopropylbenzene	0.500	0.492	1.6	100	0.01
55 TMP Bromoform	0.500	0.484	3.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.893	1.1	100	0.00
58 TMP n-Propylbenzene	0.500	0.555	-11.0	100	-0.01
59 TMP Bromobenzene	0.500	0.519	-3.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.474	5.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.534	-6.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.591	-18.2	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.531	-6.2	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.492	1.6	100	0.00
65 TMP tert-Butylbenzene	0.500	0.505	-1.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.487	2.6	100	0.00
67 TMP sec-Butylbenzene	0.500	0.493	1.4	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.497	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.515	-3.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.495	1.0	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.470	6.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.500	0.599	-19.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.500	0.488	2.4	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.542	-8.4	100	0.00
75 TMP Naphthalene	0.500	0.445	11.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.467	6.6	100	0.00

(#) = Out of Range

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

## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.01
3 S	Dibromofluoromethane	0.271	0.278	-2.6	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.907	-0.1	100	0.00
5 TMP	Chloromethane	0.949	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.769	0.734	4.6	86	0.00
7 TMP	Bromomethane	0.377	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.323	0.319	1.2	77	0.00
9 TMP	Trichlorofluoromethane	1.197	1.210	-1.1	100	-0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.31#
11 TMP	Acetone	0.040	0.043	-7.5	100	0.00
12 TMP	1,1-Dichloroethene	0.288	0.270	6.2	68	0.00
13 TMP	Hexane	0.394	0.429	-8.9	100	0.00
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.033	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.612	2.4	86	0.00
17 TMP	trans-1,2-Dichloroethene	0.282	0.262	7.1	72	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.895	4.4	100	0.00
19 TMP	1,1-Dichloroethane	0.486	0.468	3.7	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.264	0.0	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.282	-4.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.280	3.1	100	0.00
23 TMP	Chloroform	0.454	0.465	-2.4	100	0.00
24 TMP	2-Butanone (MEK)	0.193	0.207	-7.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.597	-0.5	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.411	11.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.403	0.7	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.379	-10.5	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.344	2.8	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP	Benzene	1.042	1.006	3.5	100	0.00
32 TMP	Trichloroethene	0.326	0.300	8.0	94	0.00
33 TMP	1,2-Dichloropropane	0.269	0.274	-1.9	100	0.00
34 TMP	Bromodichloromethane	0.327	0.338	-3.4	100	0.00
35 S	Toluene-d8	1.111	1.113	-0.2	100	0.00
36 TMP	Dibromomethane	0.174	0.189	-8.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.053	5.4	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.423	5.8	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.041	4.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.477	9.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.325	-0.6	100	0.00
43 TMP	2-Hexanone	0.451	0.468	-3.8	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072841.D  
 Acq On : 28 Jul 2023 10:59 pm  
 Operator : MD  
 Sample : 0.5 ppb 8260 ICAL 69-198j  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:15 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.620	-8.4	100	0.00
45 TMP Tetrachloroethene	0.446	0.410	8.1	100	0.00
46 TMP Dibromochloromethane	0.434	0.427	1.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.419	10.7	100	0.00
48 TMP Chlorobenzene	0.931	0.929	0.2	100	0.00
49 TMP Ethylbenzene	1.609	1.521	5.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.305	7.3	100	0.00
51 TMP m,p-Xylene	0.630	0.596	5.4	100	0.00
52 TMP o-Xylene	0.606	0.572	5.6	100	0.00
53 TMP Styrene	0.906	0.878	3.1	100	0.00
54 TMP Isopropylbenzene	1.367	1.345	1.6	100	0.01
55 TMP Bromoform	0.239	0.231	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.891	1.1	100	0.00
58 TMP n-Propylbenzene	3.326	3.691	-11.0	100	-0.01
59 TMP Bromobenzene	0.814	0.846	-3.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.190	5.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.820	-6.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.778	-18.2	100	0.00
63 TMP 2-Chlorotoluene	1.947	2.067	-6.2	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.223	1.5	100	0.00
65 TMP tert-Butylbenzene	2.112	2.135	-1.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.382	2.5	100	0.00
67 TMP sec-Butylbenzene	3.109	3.064	1.4	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.580	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.486	-3.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.461	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.288	6.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.175	-19.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.887	2.3	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.530	-8.4	100	0.00
75 TMP Naphthalene	2.138	1.903	11.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.770	6.8	100	0.00

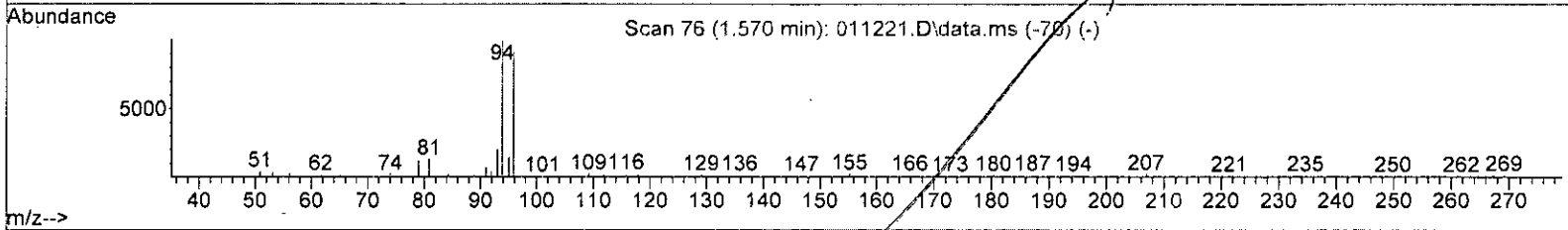
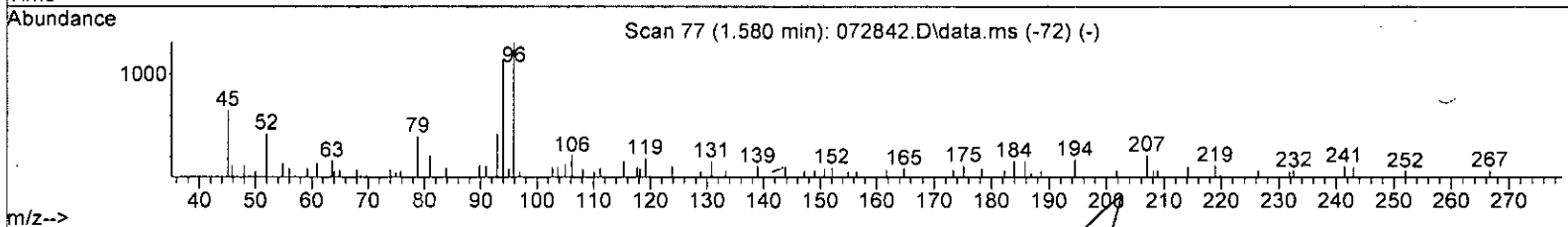
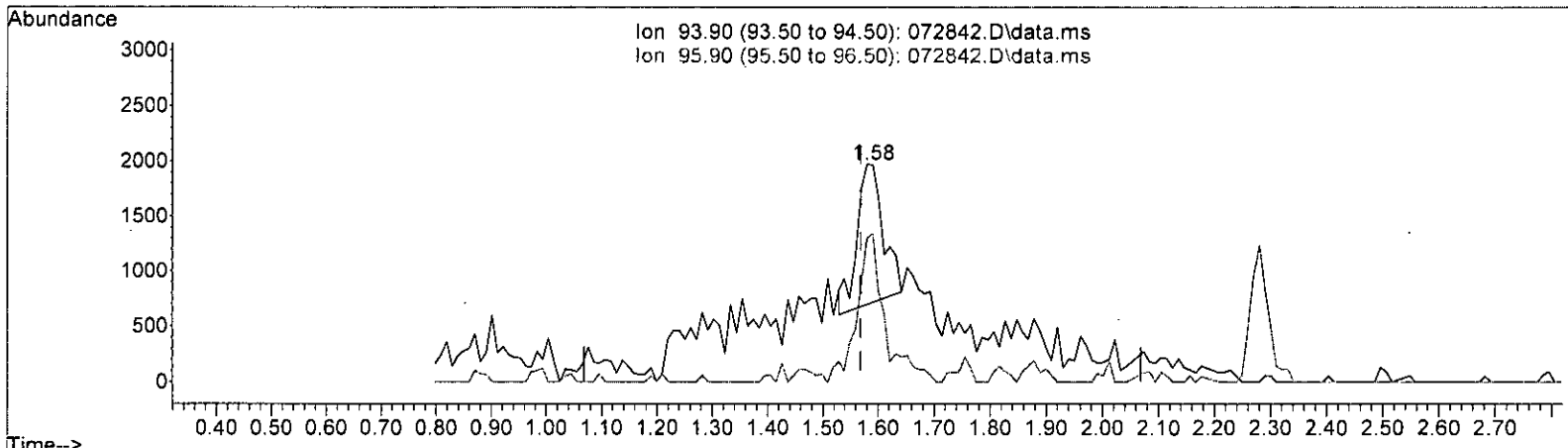
(#) = Out of Range

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

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

M 7/29

(7) Bromomethane (TMP)

1.580min (+ 0.011) 0.976 ppb

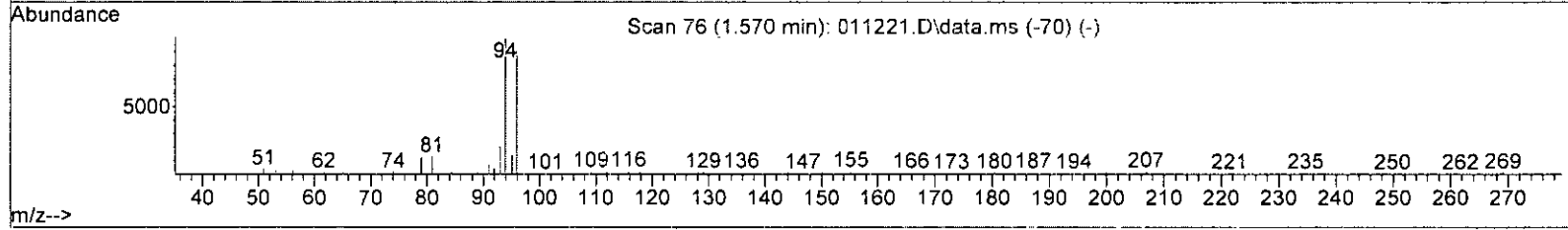
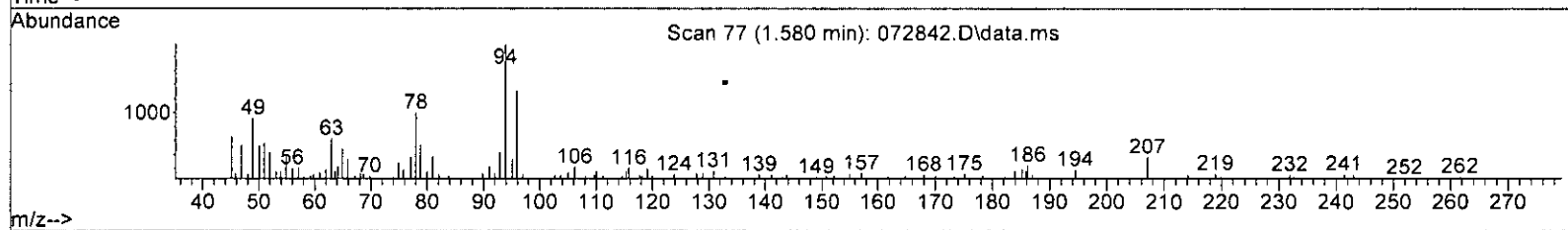
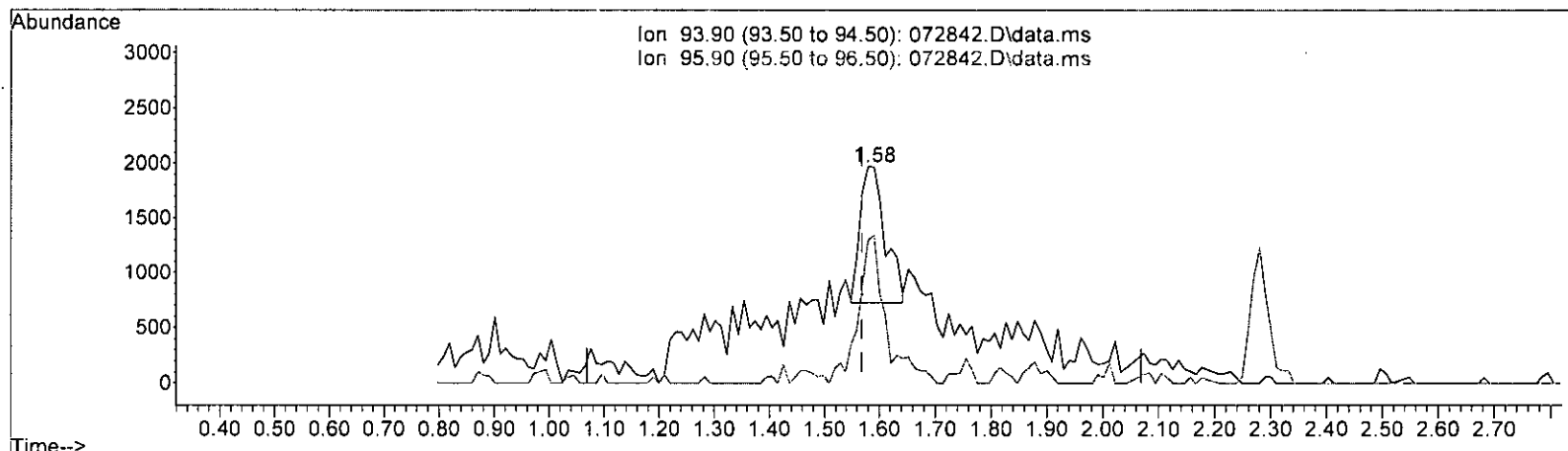
response 4150

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	96.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072842.D\data.ms

(7) Bromomethane (TMP)

1.580min (+ 0.011) 0.912 ppb m

response 3876

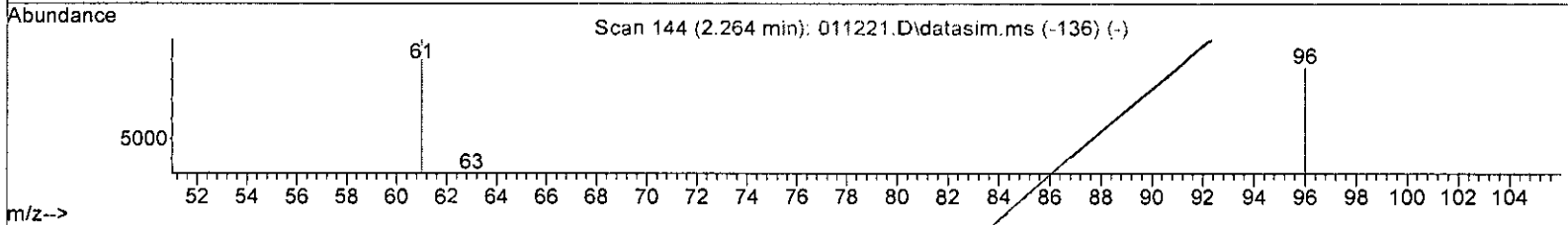
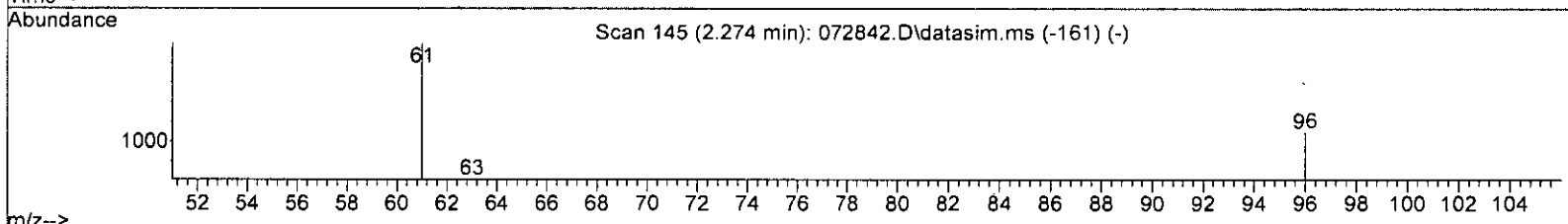
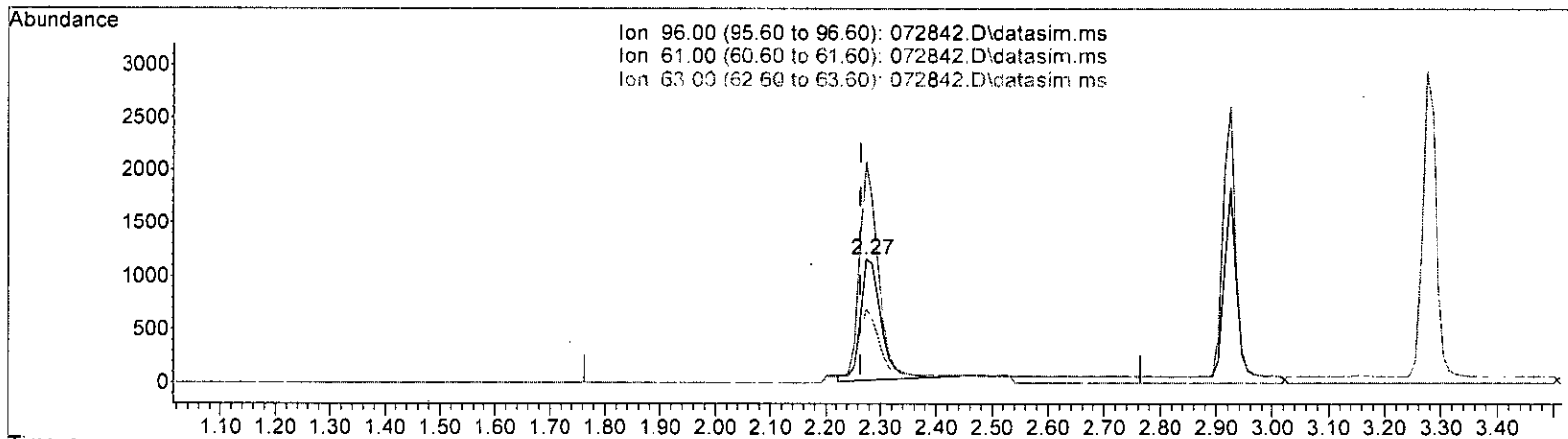
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	66.09#
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/28*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072842.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.960 ppb

response 2958

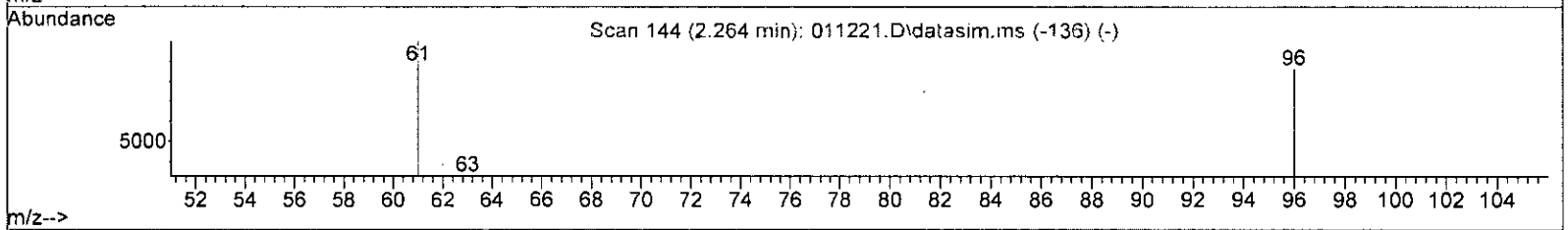
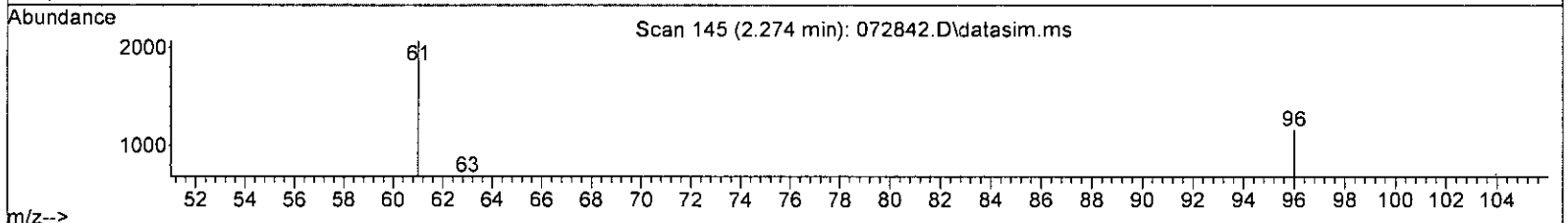
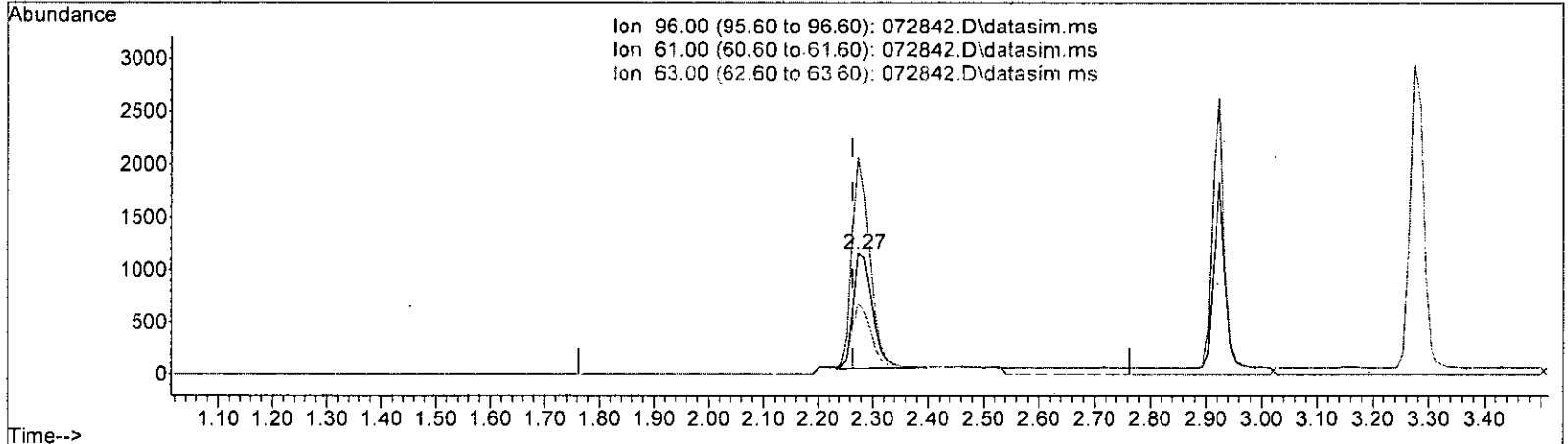
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	182.63
63.00	54.90	56.22
0.00	0.00	0.00

*m/z/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.866 ppb m

response 2670

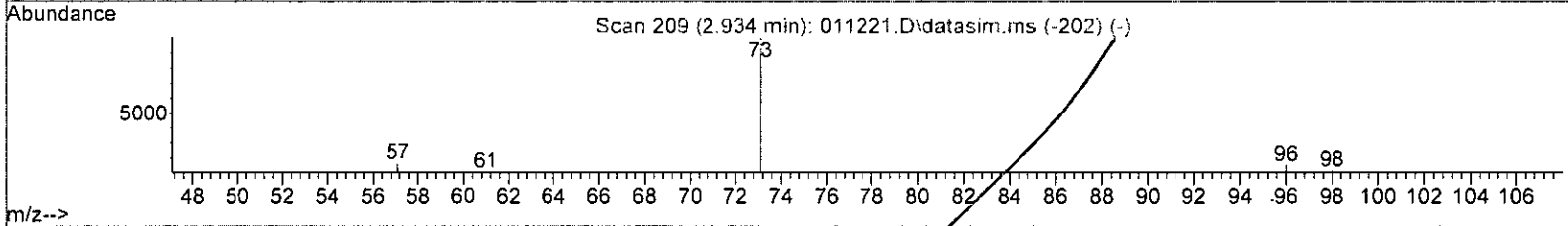
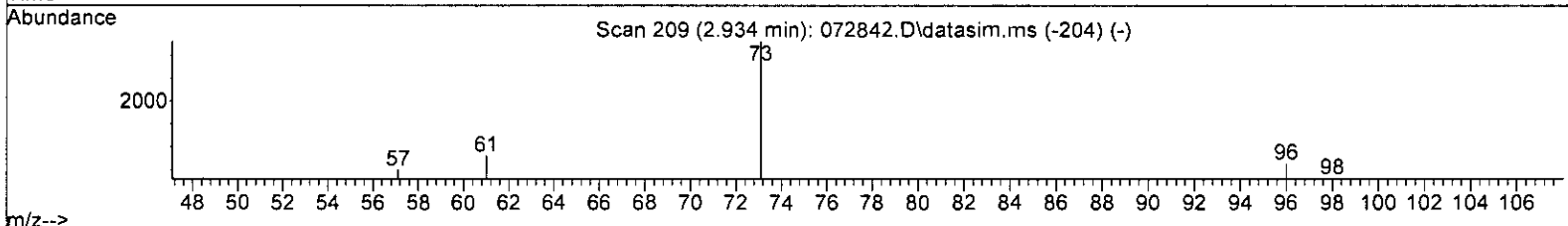
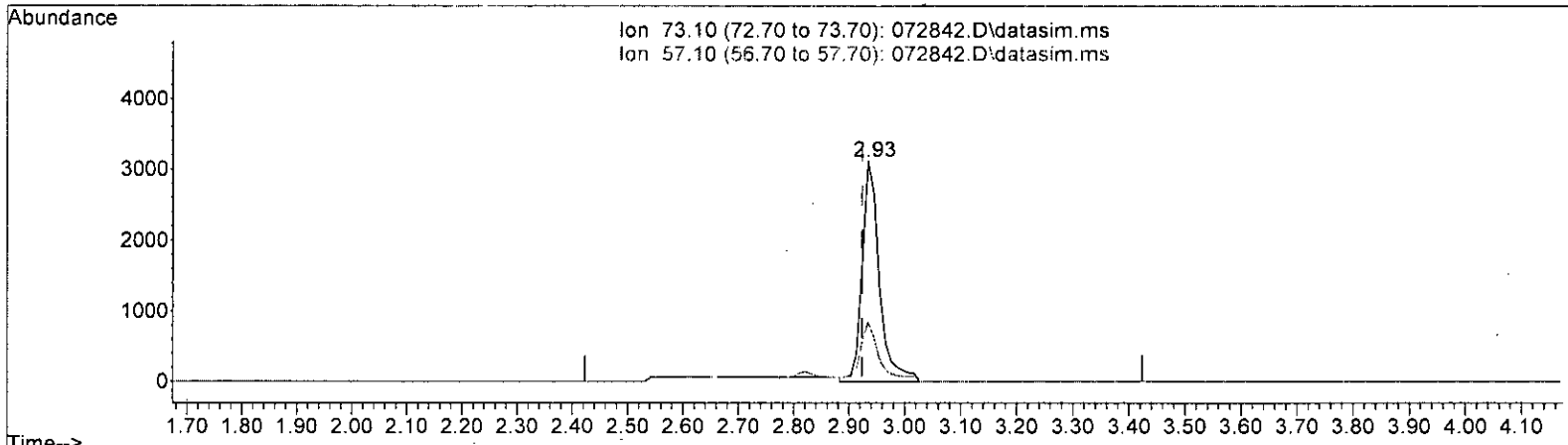
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	162.90	178.15
63.00	54.90	59.33
0.00	0.00	0.00

*m 2/21*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

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

2.934min (+ 0.010) 0.936 ppb

response 6626

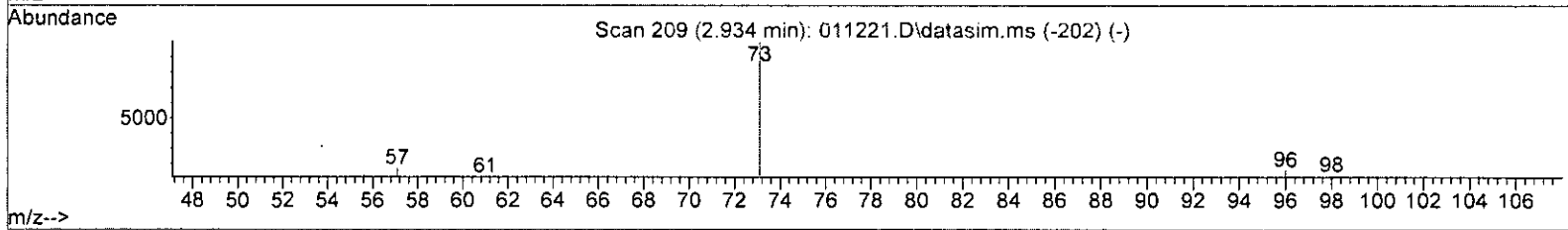
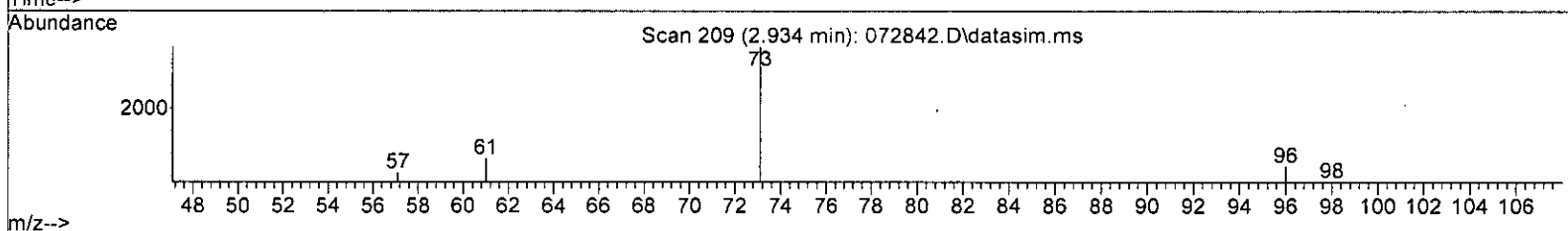
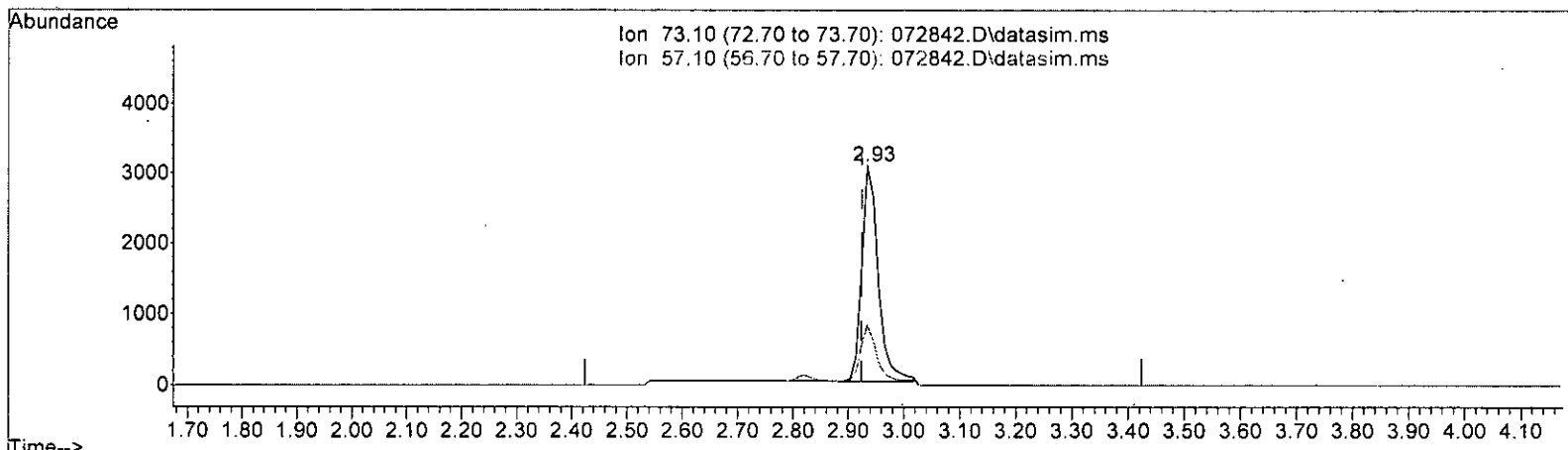
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	27.20
0.00	0.00	0.00
0.00	0.00	0.00

m 7/29

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

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

2.934min (+ 0.010) 0.875 ppb m

response 6192

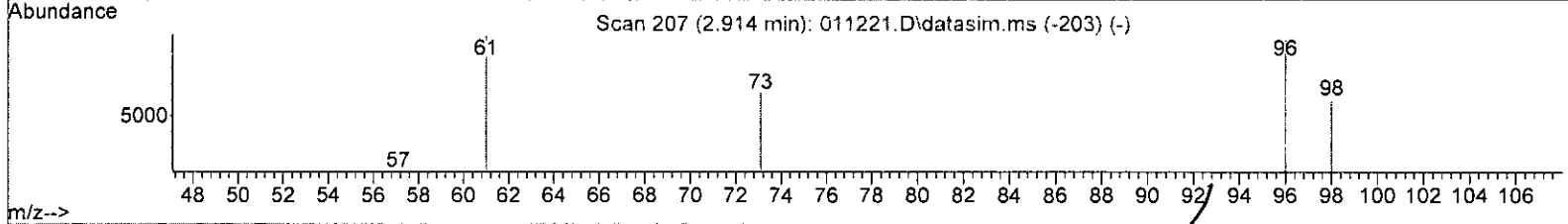
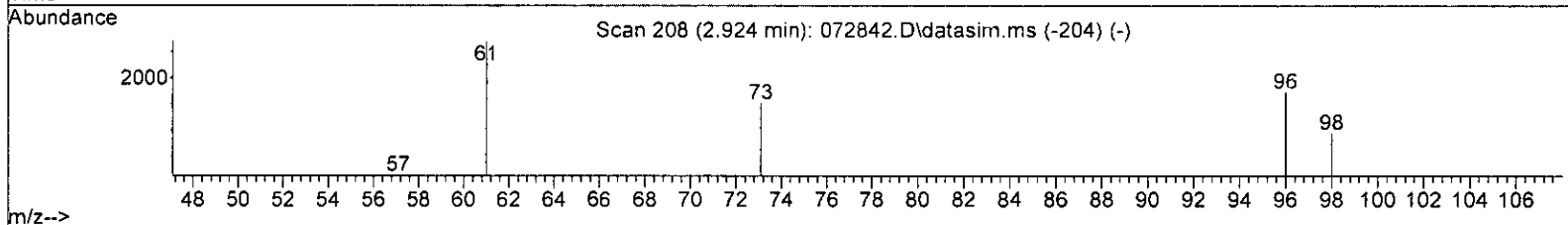
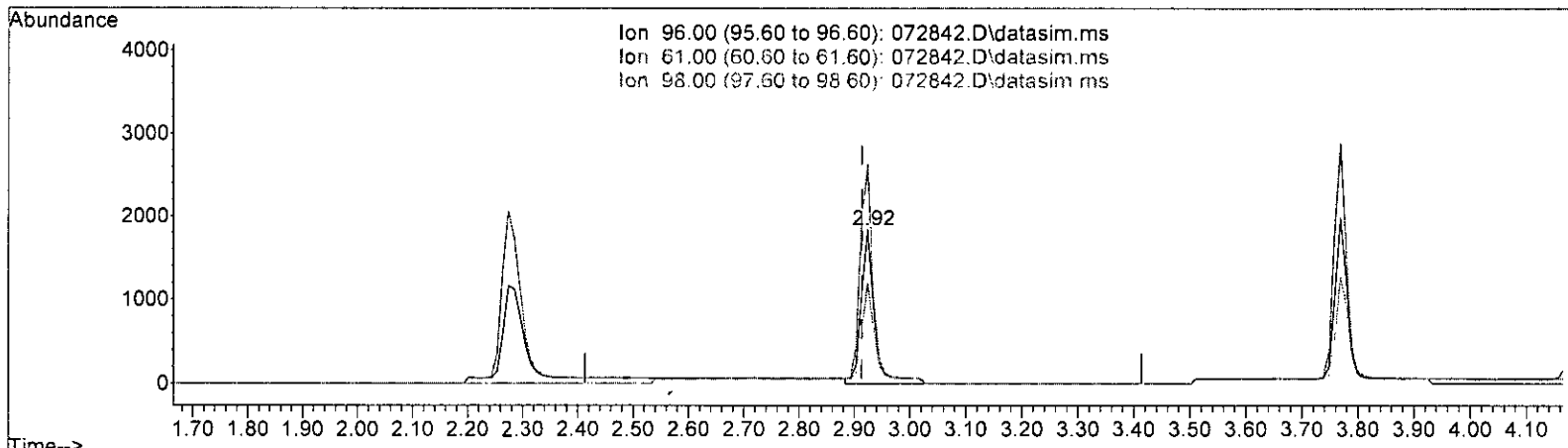
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	27.00	27.20
0.00	0.00	0.00
0.00	0.00	0.00

*m 7/20*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms

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

2.924min (+ 0.010) 1.057 ppb

response 3080

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	143.01
98.00	60.80	65.28
0.00	0.00	0.00

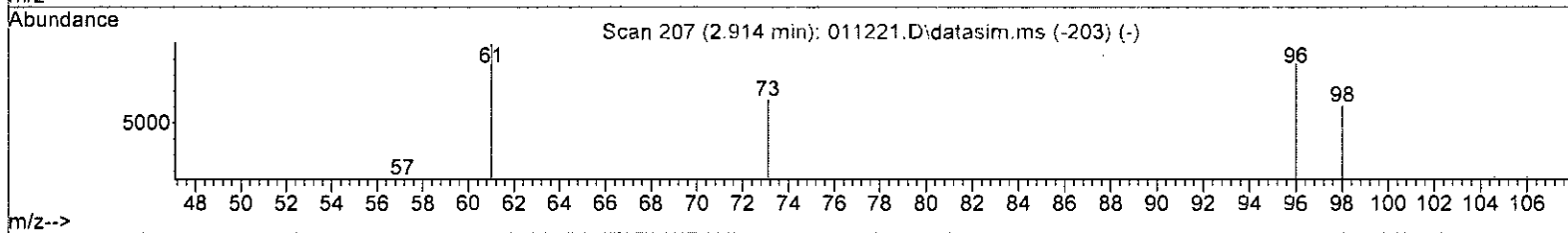
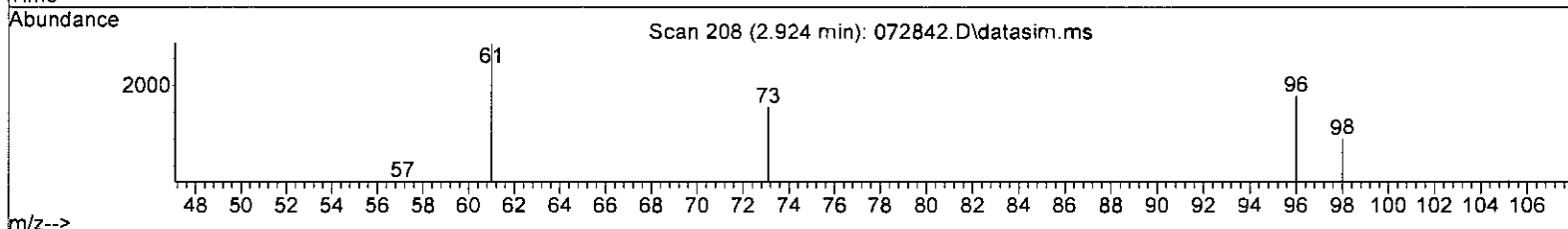
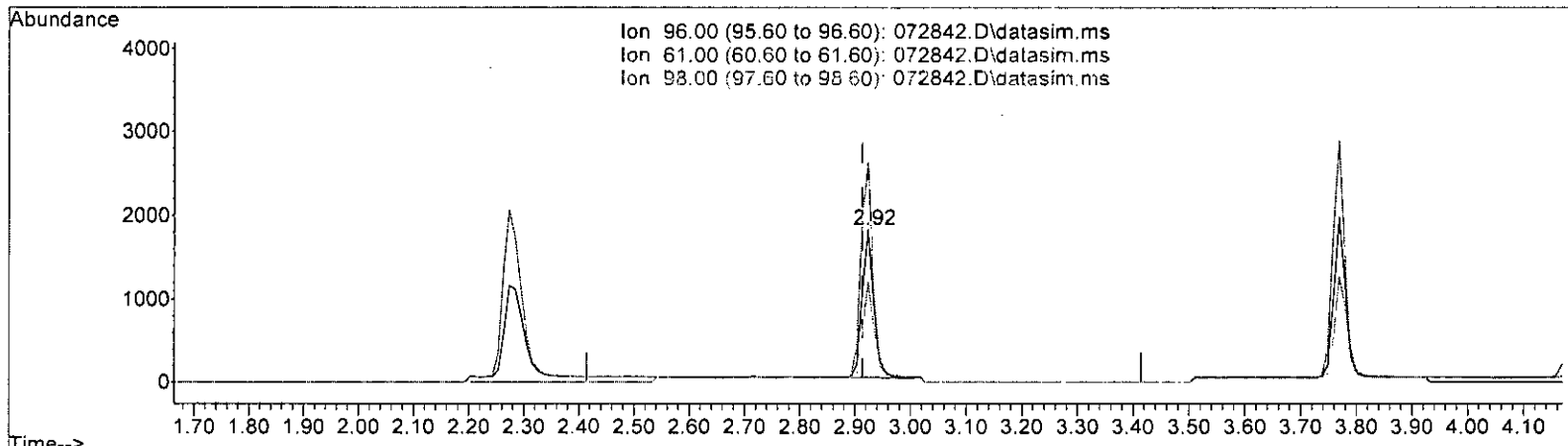
*in 7/29*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072842.D\data.ms *m/z 21*

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

2.924min (+ 0.010) 0.900 ppb m

response	2629
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 143.01
98.00	60.80 65.28
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	112825	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	78090	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37483	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	28110	9.182	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	91.80%	
30) 1,2-Dichloroethane-d4	4.45	102	5878	8.670	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	86.70%	
35) Toluene-d8	6.10	98	113289	9.038	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	90.40%	
57) 4-Bromofluorobenzene	8.50	95	33528	9.931	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	99.30%	
Target Compounds						
2) Ethanol	2.33	45	136	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	8628	0.844	ppb	94
5) Chloromethane	1.26	50	10562	0.986	ppb	85
6] Vinyl chloride	1.33	62	7953	0.917	ppb	99
7) Bromomethane	1.58	94	3879m	0.913	ppb	
8] Chloroethane	1.65	64	3359	0.923	ppb	76
9) Trichlorofluoromethane	1.85	101	10925	0.809	ppb	100
10) 2-Propanol	2.33	45	136	No Calib		
11) Acetone	2.33	58	2097	4.695	ppb	97
12] 1,1-Dichloroethene	2.27	96	2611m	0.846	ppb	
13) Hexane	3.16	57	3935	0.886	ppb	98
14) Methylene chloride	2.69	84	3024	1.100	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	1780	4.854	ppb	59
16] Methyl t-butyl ether (...)	2.93	73	6192m	0.875	ppb	
17] trans-1,2-Dichloroethene	2.92	96	2629m	0.900	ppb	
18) Diisopropyl ether (DIPE)	3.35	45	9706	0.919	ppb	98
19] 1,1-Dichloroethane	3.27	63	4818	0.879	ppb	95
20) Ethyl t-butyl ether (E...)	3.66	87	2553	0.858	ppb	# 86
21) 2,2-Dichloropropane	3.76	77	2981	0.983	ppb	93
22] cis-1,2-Dichloroethene	3.77	96	2868	0.880	ppb	95
23) Chloroform	4.04	83	4822	0.941	ppb	94
24) 2-Butanone (MEK)	3.79	43	9366	4.310	ppb	95
25) t-Amyl methyl ether (T...)	4.61	73	5900	0.881	ppb	90
26] 1,2-Dichloroethane (EDC)	4.52	62	4235	0.960	ppb	99
27] 1,1,1-Trichloroethane	4.19	97	4062	0.887	ppb	96
28) 1,1-Dichloropropene	4.33	75	3279	0.847	ppb	86
29) Carbon tetrachloride	4.33	117	3383	0.846	ppb	# 63
31] Benzene	4.50	78	10288	0.929	ppb	98
32] Trichloroethene	5.04	95	3048	0.894	ppb	93
33) 1,2-Dichloropropane	5.24	63	2792	0.919	ppb	# 88
34) Bromodichloromethane	5.48	83	2945	0.798	ppb	94
36) Dibromomethane	5.34	93	1738	0.888	ppb	81

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

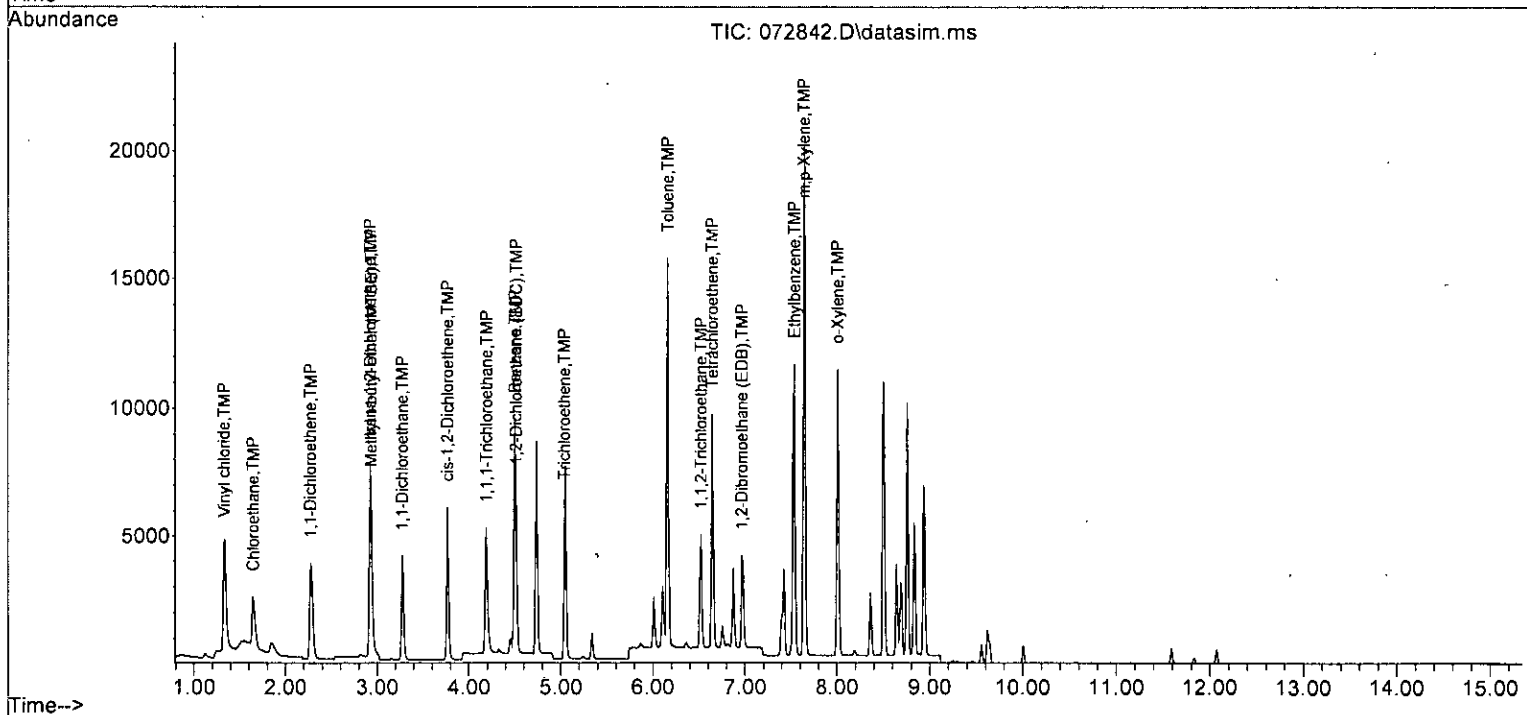
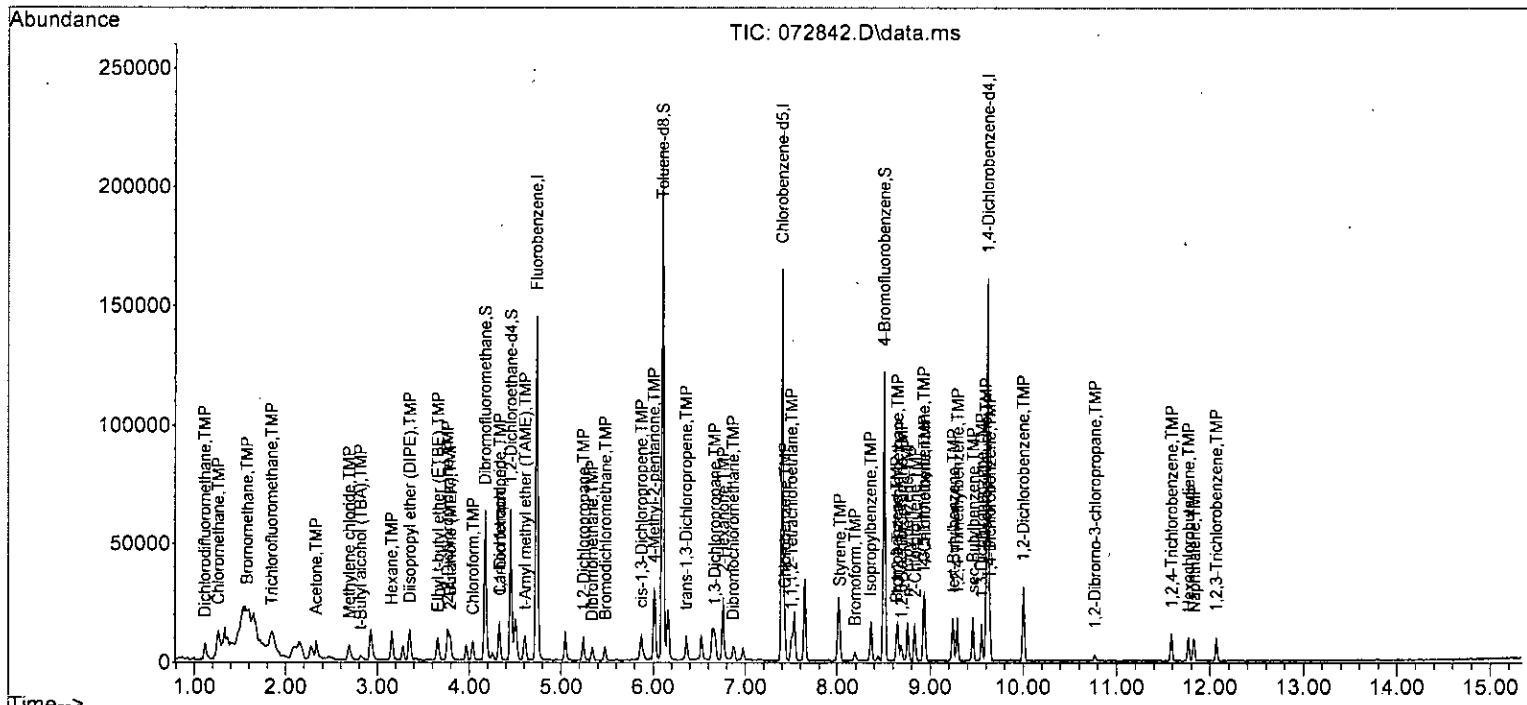
Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	2998	4.707	ppb	91
38) cis-1,3-Dichloropropene	5.87	75	4183	0.825	ppb	93
40] Toluene	6.16	92	7959	1.019	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	3252	0.790	ppb	95
42] 1,1,2-Trichloroethane	6.52	83	2485	0.984	ppb #	73
43) 2-Hexanone	6.76	43	16887	4.797	ppb	98
44) 1,3-Dichloropropane	6.67	76	4582	1.026	ppb	90
45] Tetrachloroethene	6.64	164	3151	1.014	ppb	95
46) Dibromochloromethane	6.87	129	3253	0.959	ppb	88
47] 1,2-Dibromoethane (EDB)	6.97	107	3179	0.962	ppb	96
48) Chlorobenzene	7.43	112	7234	0.995	ppb	97
49] Ethylbenzene	7.54	91	11743	1.004	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.50	131	2466	0.960	ppb	87
51] m,p-Xylene	7.64	106	9153	2.000	ppb	99
52] o-Xylene	8.01	106	4419	0.983	ppb	98
53) Styrene	8.03	104	6153	0.869	ppb	89
54) Isopropylbenzene	8.36	105	10096	0.946	ppb	98
55) Bromoform	8.19	173	1608	0.862	ppb	83
58) n-Propylbenzene	8.75	91	12092	0.970	ppb	96
59) Bromobenzene	8.64	156	2911	0.954	ppb	90
60) 1,3,5-Trimethylbenzene	8.93	105	8500	0.981	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.65	83	2757	0.958	ppb	94
62) 1,2,3-Trichloropropane	8.69	75	2673	1.084	ppb	91
63) 2-Chlorotoluene	8.84	91	7328	1.004	ppb	96
64) 4-Chlorotoluene	8.94	91	8361	0.988	ppb	97
65) tert-Butylbenzene	9.25	119	7487	0.946	ppb	95
66) 1,2,4-Trimethylbenzene	9.29	105	8935	0.975	ppb	99
67) sec-Butylbenzene	9.46	105	11229	0.964	ppb	99
68) p-Isopropyltoluene	9.60	119	9627	0.990	ppb	98
69) 1,3-Dichlorobenzene	9.55	146	5258	0.972	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	5603	1.013	ppb	97
71) 1,2-Dichlorobenzene	10.00	146	4925	0.958	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.77	75	529	0.968	ppb	89
73) 1,2,4-Trichlorobenzene	11.59	180	2850	0.838	ppb	83
74) Hexachlorobutadiene	11.77	225	1817	0.992	ppb	86
75) Naphthalene	11.83	128	6850	0.855	ppb	94
76) 1,2,3-Trichlorobenzene	12.07	180	2689	0.869	ppb	90

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	9.182	8.2	100	0.01
4 TMP	Dichlorodifluoromethane	1.000	0.844	15.6	100	0.01
5 TMP	Chloromethane	1.000	0.986	1.4	100	0.01
6 TMP	Vinyl chloride	1.000	0.917	8.3	109	0.01
7 TMP	Bromomethane	1.000	0.913	8.7	104	0.01
8 TMP	Chloroethane	1.000	0.923	7.7	100	0.01
9 TMP	Trichlorofluoromethane	1.000	0.809	19.1	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	5.000	4.695	6.1	100	0.01
12 TMP	1,1-Dichloroethene	1.000	0.846	15.4	98	0.01
13 TMP	Hexane	1.000	0.886	11.4	100	0.01
14 TMP	Methylene chloride	-1.000	1.100	0.0	0	0.01
15 TMP	t-Butyl alcohol (TBA)	5.000	4.854	2.9	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	1.000	0.875	12.5	100	0.01
17 TMP	trans-1,2-Dichloroethene	1.000	0.900	10.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	1.000	0.919	8.1	100	0.01
19 TMP	1,1-Dichloroethane	1.000	0.879	12.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	1.000	0.858	14.2	100	0.01
21 TMP	2,2-Dichloropropane	1.000	0.983	1.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	1.000	0.880	12.0	100	0.01
23 TMP	Chloroform	1.000	0.941	5.9	100	0.01
24 TMP	2-Butanone (MEK)	5.000	4.310	13.8	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	1.000	0.881	11.9	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	1.000	0.960	4.0	100	0.00
27 TMP	1,1,1-Trichloroethane	1.000	0.887	11.3	100	0.00
28 TMP	1,1-Dichloropropene	1.000	0.847	15.3	100	0.01
29 TMP	Carbon tetrachloride	1.000	0.846	15.4	100	0.01
30 S	1,2-Dichloroethane-d4	10.000	8.670	13.3	100	0.00
31 TMP	Benzene	1.000	0.929	7.1	100	0.01
32 TMP	Trichloroethene	1.000	0.894	10.6	100	0.00
33 TMP	1,2-Dichloropropane	1.000	0.919	8.1	100	0.01
34 TMP	Bromodichloromethane	1.000	0.798	20.2#	100	0.01
35 S	Toluene-d8	10.000	9.038	9.6	100	0.00
36 TMP	Dibromomethane	1.000	0.888	11.2	100	0.00
37 TMP	4-Methyl-2-pentanone	5.000	4.707	5.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	1.000	0.825	17.5	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	1.000	1.019	-1.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	1.000	0.790	21.0#	100	0.00
42 TMP	1,1,2-Trichloroethane	1.000	0.984	1.6	100	0.01
43 TMP	2-Hexanone	5.000	4.797	4.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.026	-2.6	100	0.00
45 TMP Tetrachloroethene	1.000	1.014	-1.4	100	0.00
46 TMP Dibromochloromethane	1.000	0.959	4.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	1.000	0.962	3.8	100	0.00
48 TMP Chlorobenzene	1.000	0.995	0.5	100	0.00
49 TMP Ethylbenzene	1.000	1.004	-0.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	0.960	4.0	100	0.00
51 TMP m,p-Xylene	2.000	2.000	0.0	100	0.00
52 TMP o-Xylene	1.000	0.983	1.7	100	0.00
53 TMP Styrene	1.000	0.869	13.1	100	0.00
54 TMP Isopropylbenzene	1.000	0.946	5.4	100	0.00
55 TMP Bromoform	1.000	0.862	13.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.931	0.7	100	0.00
58 TMP n-Propylbenzene	1.000	0.970	3.0	100	-0.01
59 TMP Bromobenzene	1.000	0.954	4.6	100	-0.01
60 TMP 1,3,5-Trimethylbenzene	1.000	0.981	1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	0.958	4.2	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.084	-8.4	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.004	-0.4	100	0.00
64 TMP 4-Chlorotoluene	1.000	0.988	1.2	100	0.00
65 TMP tert-Butylbenzene	1.000	0.946	5.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	0.975	2.5	100	0.00
67 TMP sec-Butylbenzene	1.000	0.964	3.6	100	0.00
68 TMP p-Isopropyltoluene	1.000	0.990	1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	0.972	2.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.013	-1.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	0.958	4.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.968	3.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	0.838	16.2	100	0.00
74 TMP Hexachlorobutadiene	1.000	0.992	0.8	100	0.00
75 TMP Naphthalene	1.000	0.855	14.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	0.869	13.1	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.271	0.249	8.1	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.765	15.6	100	0.01
5 TMP	Chloromethane	0.949	0.936	1.4	100	0.01
6 TMP	Vinyl chloride	0.769	0.705	8.3	109	0.01
7 TMP	Bromomethane	0.377	0.344	8.8	104	0.01
8 TMP	Chloroethane	0.323	0.298	7.7	100	0.01
9 TMP	Trichlorofluoromethane	1.197	0.968	19.1	100	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.040	0.037	7.5	100	0.01
12 TMP	1,1-Dichloroethene	0.288	0.231	19.8	98	0.01
13 TMP	Hexane	0.394	0.349	11.4	100	0.01
14 TMP	Methylene chloride	0.244	0.000#	100.0#	0#	0.01
15 TMP	t-Butyl alcohol (TBA)	0.033	0.032	3.0	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.549	12.4	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.233	17.4	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.860	8.1	100	0.01
19 TMP	1,1-Dichloroethane	0.486	0.427	12.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.226	14.4	100	0.01
21 TMP	2,2-Dichloropropane	0.269	0.264	1.9	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.254	12.1	100	0.01
23 TMP	Chloroform	0.454	0.427	5.9	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.166	14.0	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.523	12.0	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.375	18.8	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.360	11.3	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.291	15.2	100	0.01
29 TMP	Carbon tetrachloride	0.354	0.300	15.3	100	0.01
30 S	1,2-Dichloroethane-d4	0.060	0.052	13.3	100	0.00
31 TMP	Benzene	1.042	0.912	12.5	100	0.01
32 TMP	Trichloroethene	0.326	0.270	17.2	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.247	8.2	100	0.01
34 TMP	Bromodichloromethane	0.327	0.261	20.2#	100	0.01
35 S	Toluene-d8	1.111	1.004	9.6	100	0.00
36 TMP	Dibromomethane	0.174	0.154	11.5	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.053	5.4	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.371	17.4	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.019	6.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.416	21.1#	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.318	1.5	100	0.01
43 TMP	2-Hexanone	0.451	0.433	4.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072842.D  
 Acq On : 28 Jul 2023 11:23 pm  
 Operator : MD  
 Sample : 1 ppb 8260 ICAL 69-198k  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:19 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.587	-2.6	100	0.00
45 TMP Tetrachloroethene	0.446	0.404	9.4	100	0.00
46 TMP Dibromochloromethane	0.434	0.417	3.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.407	13.2	100	0.00
48 TMP Chlorobenzene	0.931	0.926	0.5	100	0.00
49 TMP Ethylbenzene	1.609	1.504	6.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.316	4.0	100	0.00
51 TMP m,p-Xylene	0.630	0.586	7.0	100	0.00
52 TMP o-Xylene	0.606	0.566	6.6	100	0.00
53 TMP Styrene	0.906	0.788	13.0	100	0.00
54 TMP Isopropylbenzene	1.367	1.293	5.4	100	0.00
55 TMP Bromoform	0.239	0.206	13.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.894	0.8	100	0.00
58 TMP n-Propylbenzene	3.326	3.226	3.0	100	-0.01
59 TMP Bromobenzene	0.814	0.777	4.5	100	-0.01
60 TMP 1,3,5-Trimethylbenzene	2.311	2.268	1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.736	4.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.713	-8.4	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.955	-0.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.231	1.2	100	0.00
65 TMP tert-Butylbenzene	2.112	1.997	5.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.384	2.5	100	0.00
67 TMP sec-Butylbenzene	3.109	2.996	3.6	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.568	1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.403	2.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.495	-1.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.314	4.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.141	3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.760	16.3	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.485	0.8	100	0.00
75 TMP Naphthalene	2.138	1.827	14.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.717	13.2	100	0.00

(#) = Out of Range

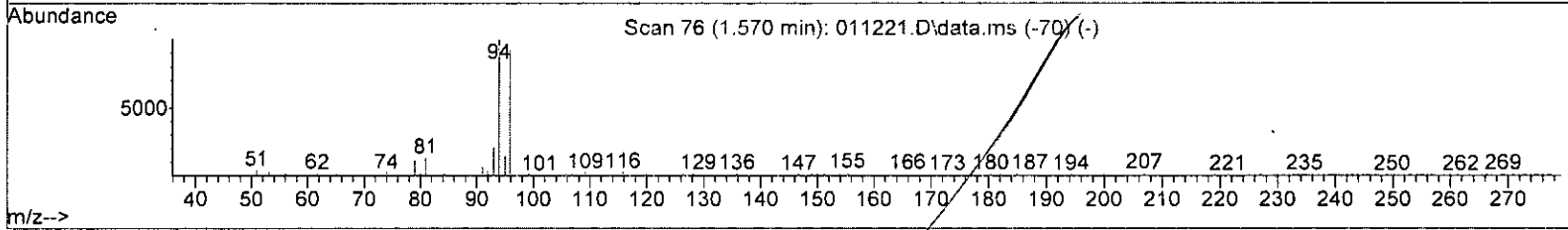
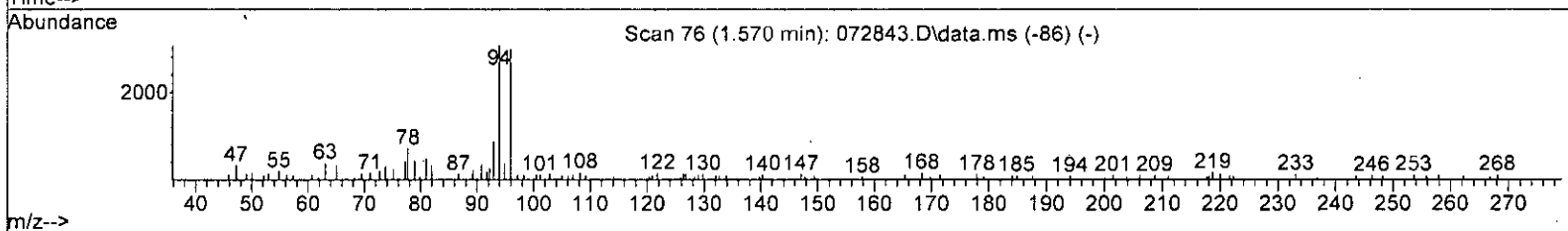
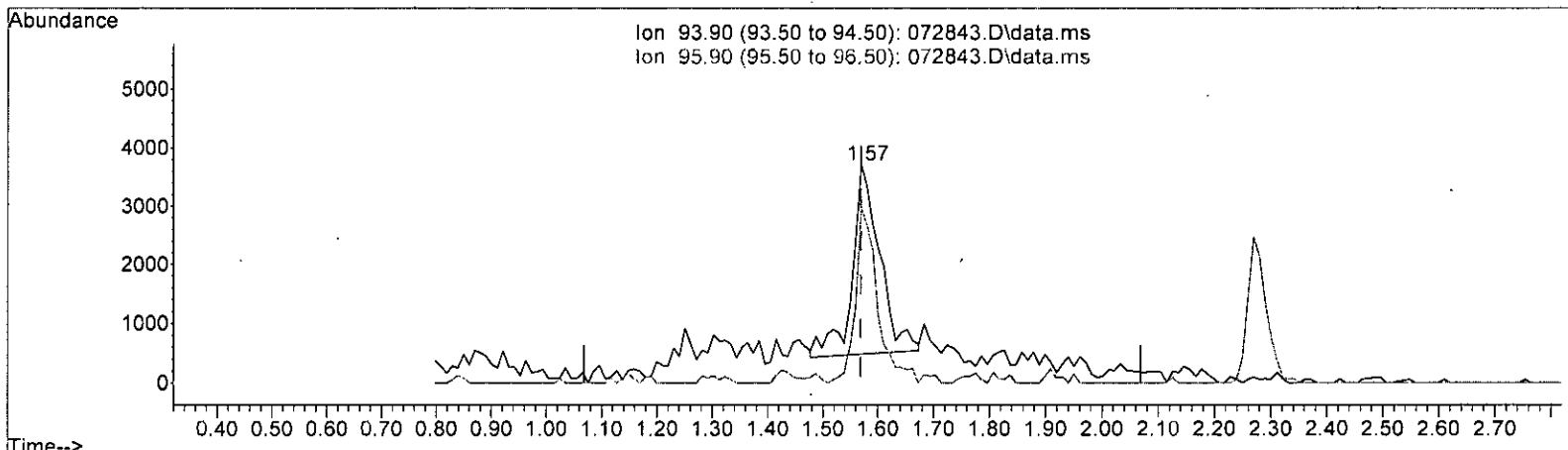
SPCC's out = 2 CCC's out = 0



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms

(7) Bromomethane (TMP) *MD*

1.570min (+ 0.001) 2.908 ppb

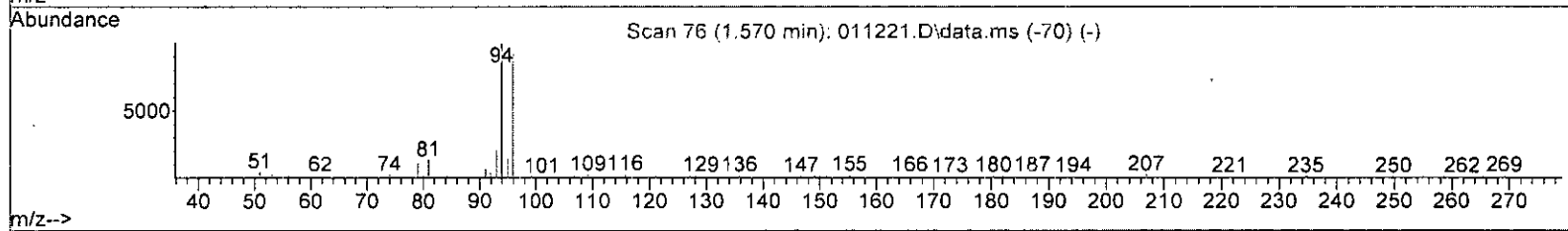
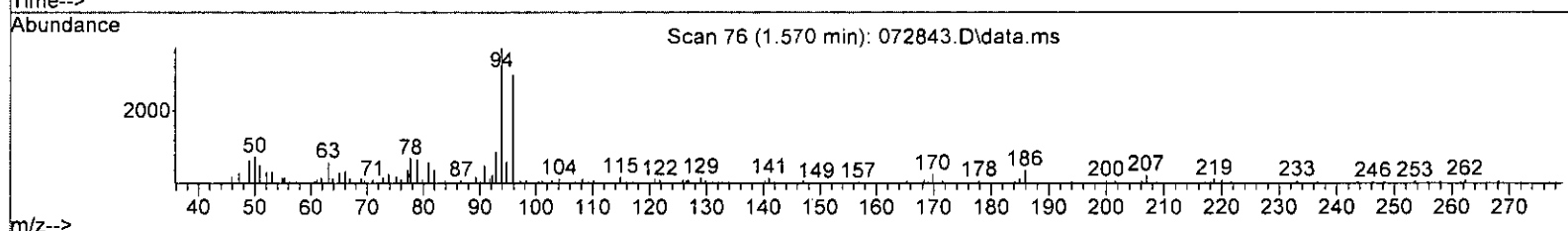
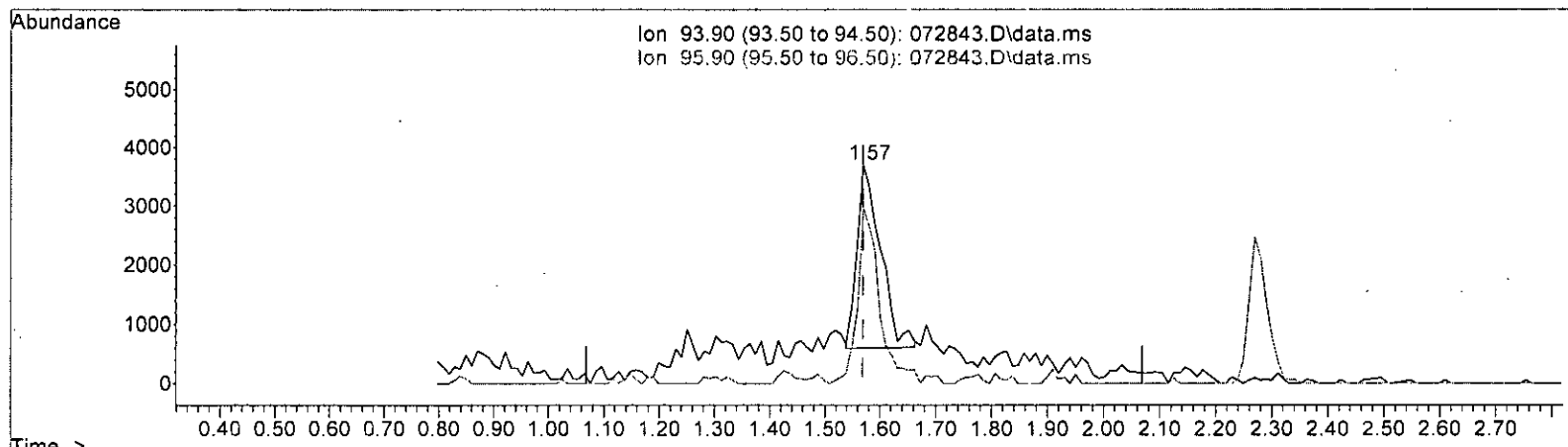
response 11162

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	93.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



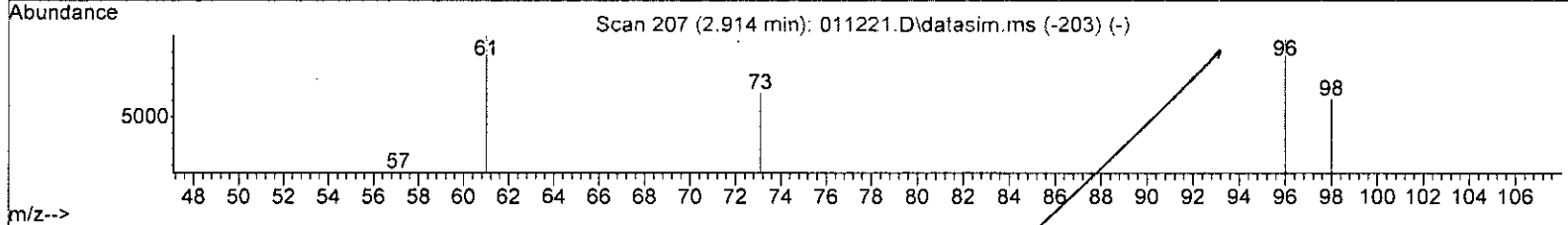
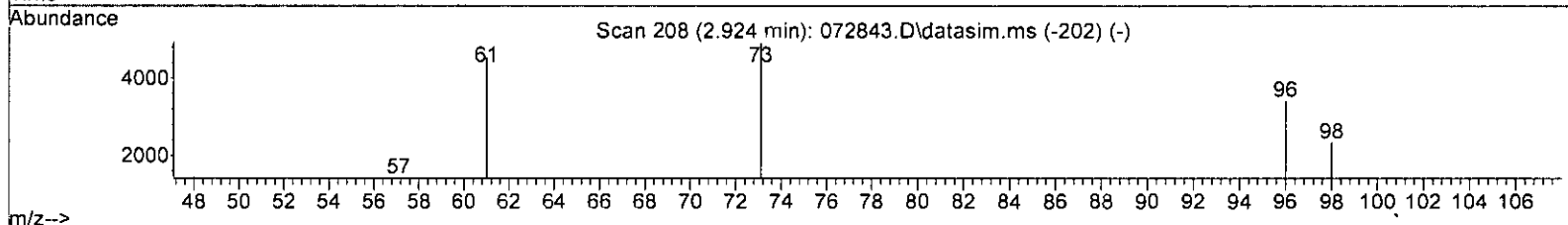
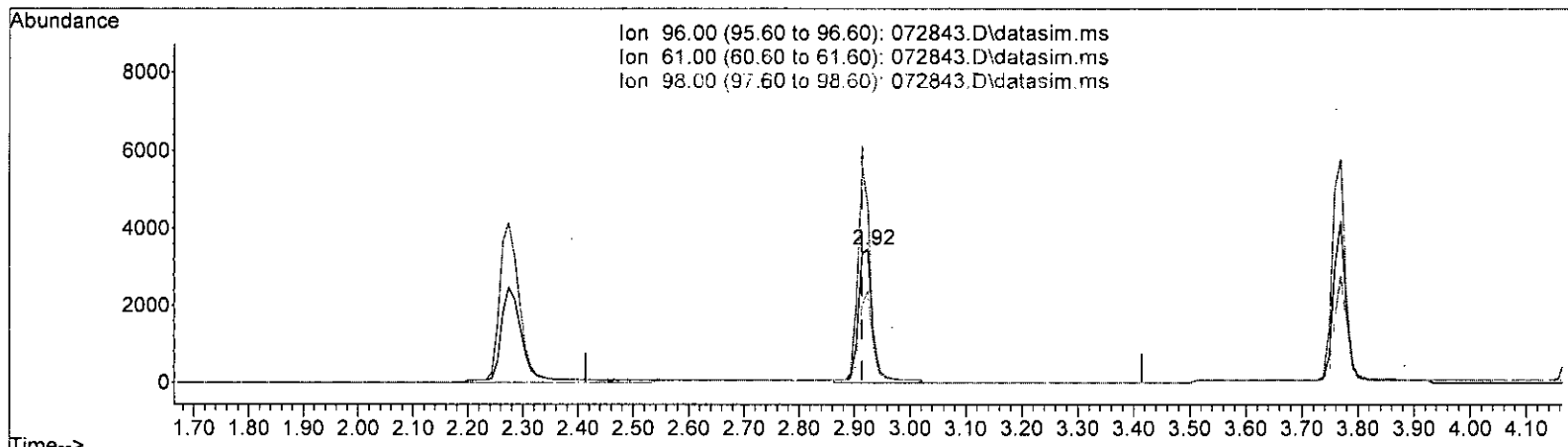
TIC: 072843.D\data.ms *m 7/20*

(7) Bromomethane (TMP)		
Retention Time	Concentration	Response
1.570min (+ 0.001)	2.382 ppb m	9142
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	100.70	80.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m 7/29*

2.924min (+ 0.010) 2.407 ppb

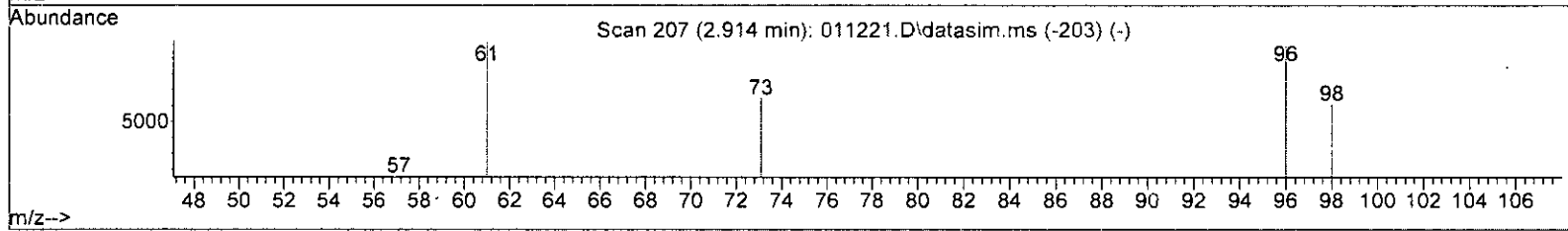
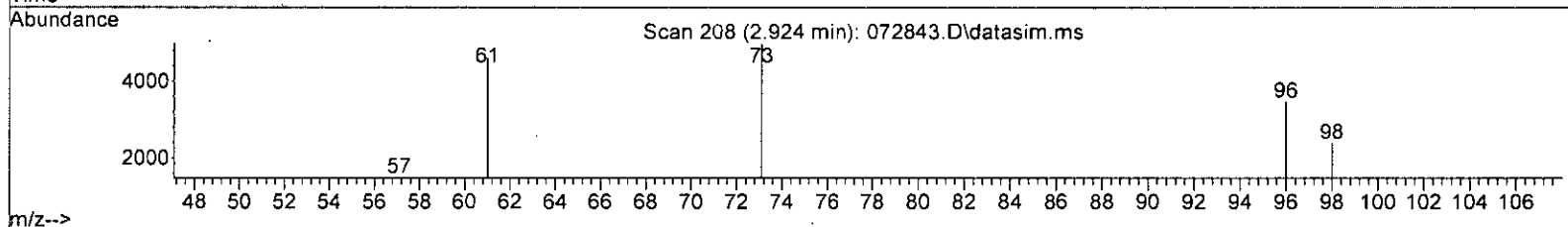
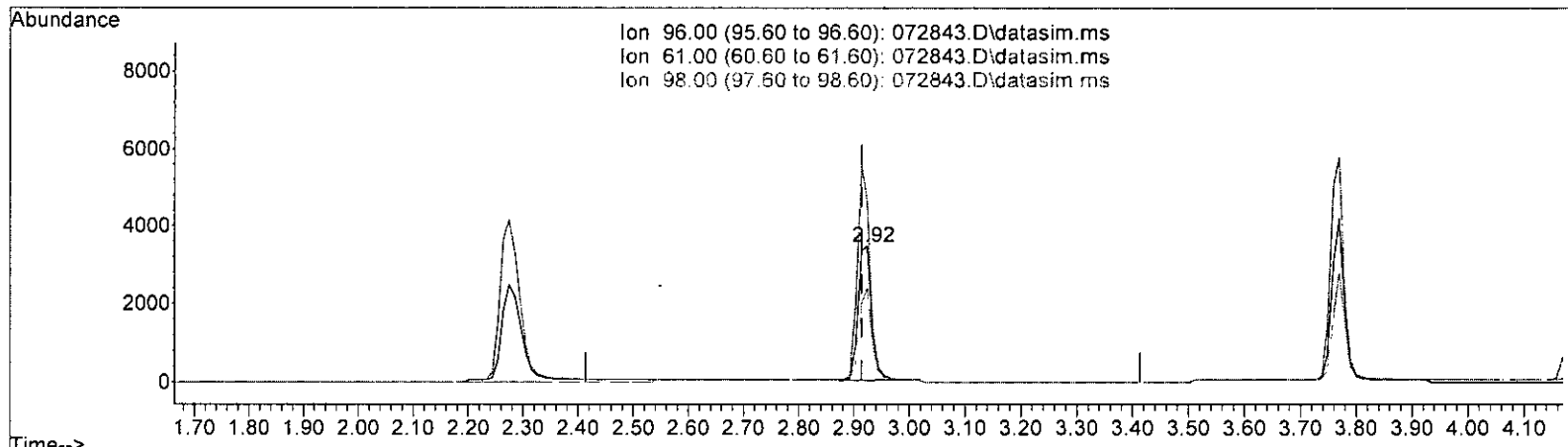
response 6280

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	132.65#
98.00	60.80	68.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms *7/29*

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

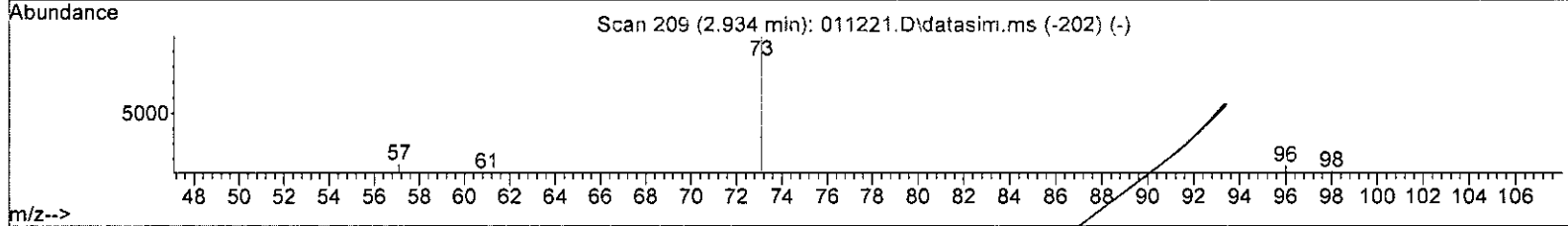
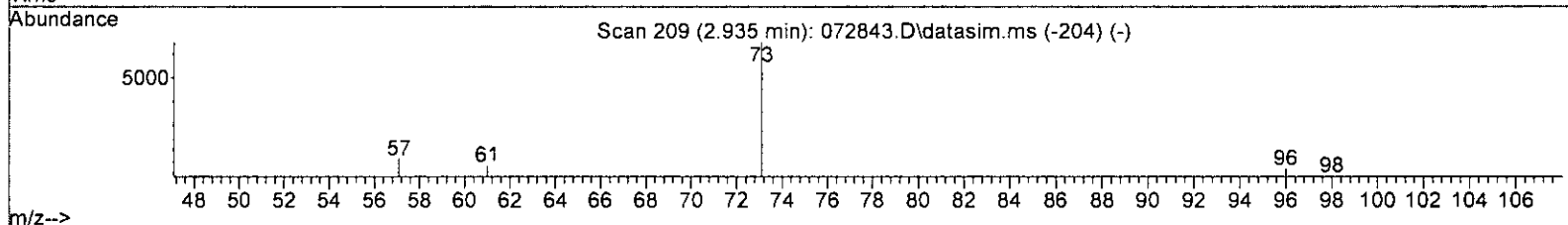
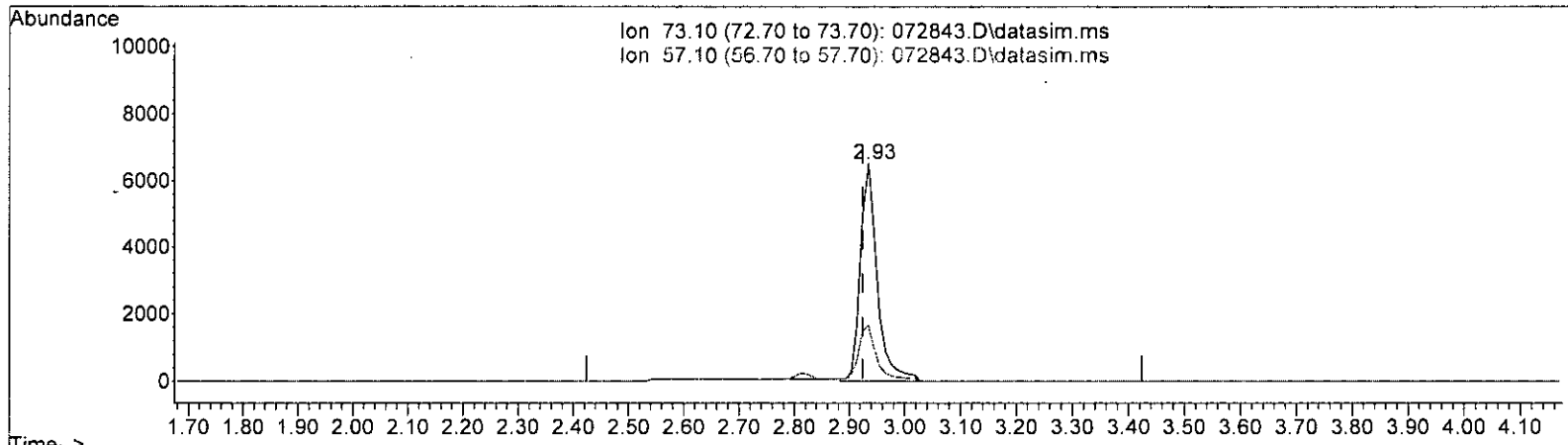
2.924min (+ 0.010) 2.205 ppb m

response	5758	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	132.65#
98.00	60.80	68.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



TIC: 072843.D\data.ms *v-7/29*

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

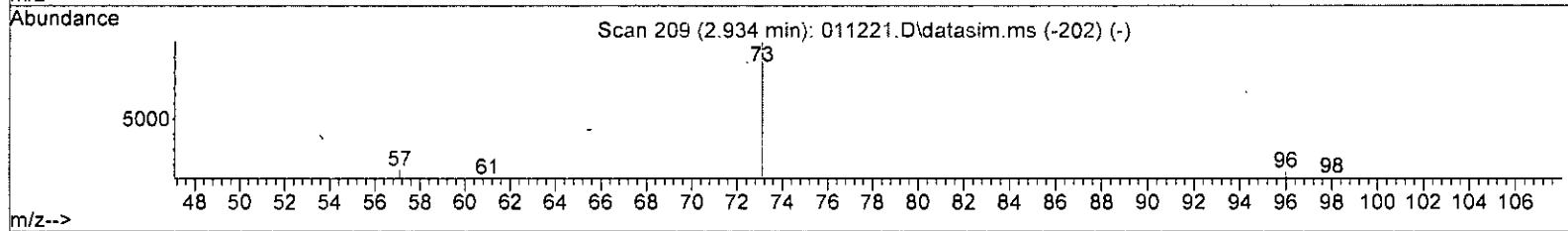
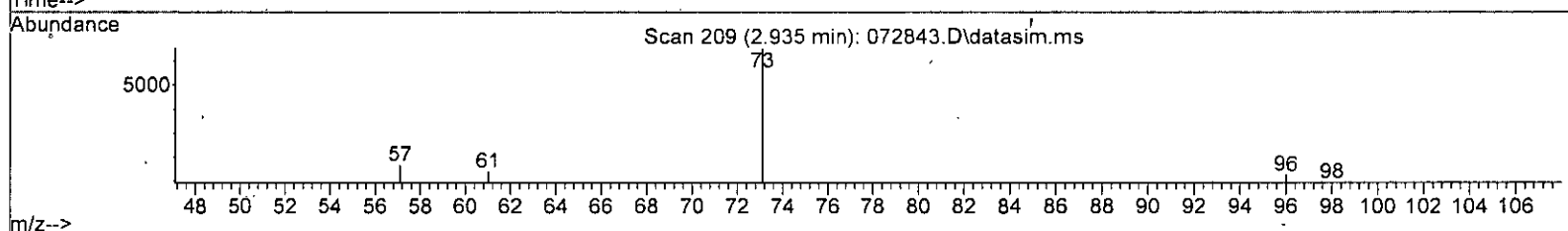
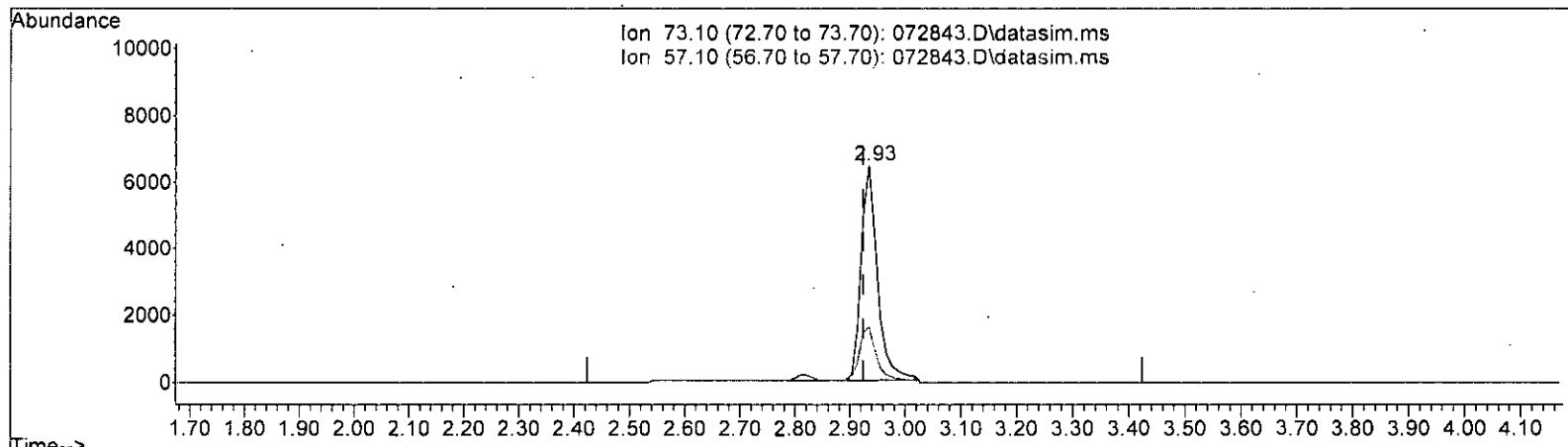
2.935min (+ 0.011) 2.136 ppb

response	13654
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 25.24
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 072843.D\data.ms

*m 7/29*

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

2.935min (+ 0.011) 2.050 ppb m

response	13105
Ion	Exp% Act%
73.10	100.00 100.00
57.10	27.00 25.24
0.00	0.00 0.00
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	101892	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	77698	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36400	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	27545	9.963	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.60%	
30) 1,2-Dichloroethane-d4	4.45	102	6260	10.224	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.20%	
35) Toluene-d8	6.10	98	114079	10.077	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	100.80%	
57) 4-Bromofluorobenzene	8.50	95	33850	10.325	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	103.20%	
Target Compounds							
2) Ethanol	2.34	45	229	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	18921	2.049	ppb		94
5) Chloromethane	1.26	50	20268	2.096	ppb		99
6] Vinyl chloride	1.33	62	16598	2.119	ppb		96
7) Bromomethane	1.57	94	9142m	2.382	ppb		
8] Chloroethane	1.65	64	6878	2.093	ppb		90
9) Trichlorofluoromethane	1.85	101	26729	2.191	ppb		92
10) 2-Propanol	2.34	45	229	No Calib	#		
11) Acetone	2.33	58	4303	10.668	ppb		99
12] 1,1-Dichloroethene	2.27	96	6766	2.447	ppb		97
13) Hexane	3.16	57	8059	2.009	ppb		91
14) Methylene chloride	2.68	84	5884	2.371	ppb		98
15) t-Butyl alcohol (TBA)	2.82	59	3423	10.335	ppb		89
16] Methyl t-butyl ether (...	2.93	73	13105m	2.050	ppb		
17] trans-1,2-Dichloroethene	2.92	96	5758m	2.205	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	20210	2.119	ppb		94
19] 1,1-Dichloroethane	3.27	63	10674	2.156	ppb		99
20) Ethyl t-butyl ether (E...	3.65	87	5546	2.064	ppb		95
21) 2,2-Dichloropropane	3.76	77	6046	2.208	ppb		96
22] cis-1,2-Dichloroethene	3.77	96	6305	2.143	ppb		98
23) Chloroform	4.04	83	10693	2.311	ppb		89
24) 2-Butanone (MEK)	3.79	43	20065	10.225	ppb		98
25) t-Amyl methyl ether (T...	4.61	73	13378	2.211	ppb		97
26] 1,2-Dichloroethane (EDC)	4.52	62	9144	2.341	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	8954	2.166	ppb		99
28) 1,1-Dichloropropene	4.32	75	7758	2.218	ppb		92
29) Carbon tetrachloride	4.32	117	7297	2.020	ppb		98
31] Benzene	4.50	78	22951	2.311	ppb		100
32] Trichloroethene	5.04	95	7005	2.297	ppb		96
33) 1,2-Dichloropropane	5.24	63	6193	2.257	ppb		100
34) Bromodichloromethane	5.48	83	7162	2.149	ppb		94
36) Dibromomethane	5.34	93	3822	2.162	ppb		93

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

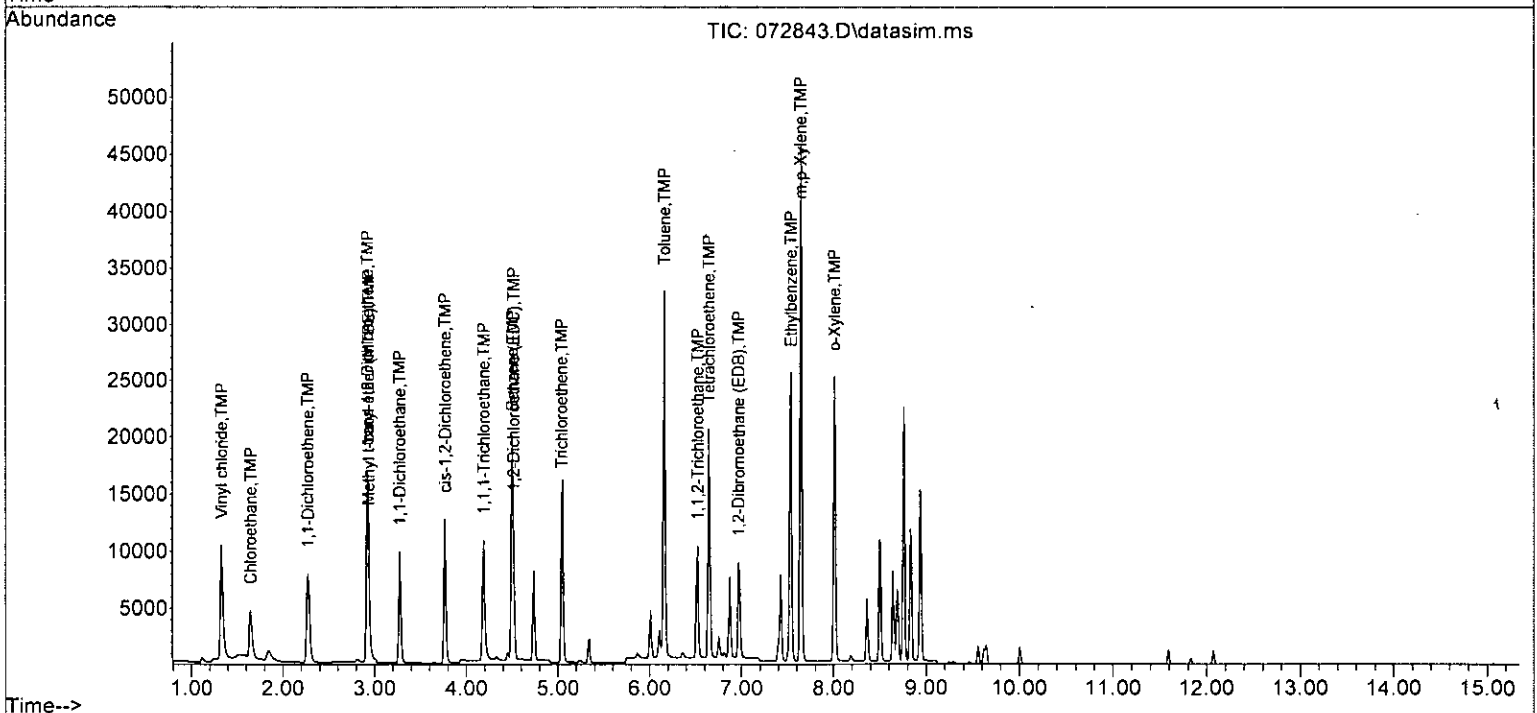
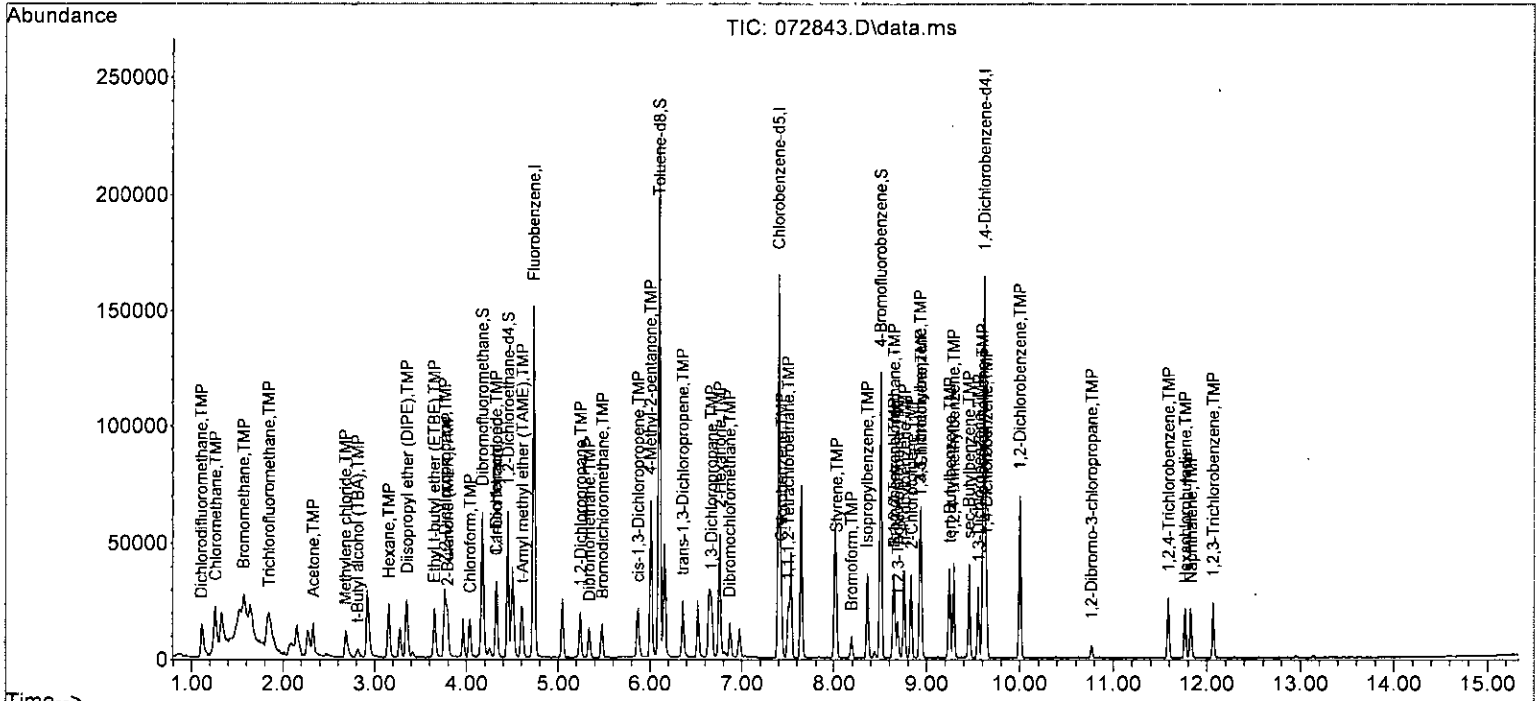
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	5719	9.942	ppb	97
38) cis-1,3-Dichloropropene	5.87	75	9298	2.030	ppb	92
40] Toluene	6.16	92	17454	2.265	ppb	94
41) trans-1,3-Dichloropropene	6.36	75	8233	2.010	ppb	89
42] 1,1,2-Trichloroethane	6.52	83	5486	2.183	ppb #	72
43) 2-Hexanone	6.76	43	35746	10.206	ppb	98
44) 1,3-Dichloropropane	6.67	76	10395	2.340	ppb	92
45] Tetrachloroethene	6.64	164	7032	2.302	ppb	96
46) Dibromochloromethane	6.87	129	6555	1.942	ppb	100
47] 1,2-Dibromoethane (EDB)	6.97	107	7079	2.164	ppb	97
48) Chlorobenzene	7.43	112	16421	2.271	ppb	98
49] Ethylbenzene	7.54	91	26533	2.297	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	5085	1.989	ppb	86
51] m,p-Xylene	7.64	106	20631	4.564	ppb	97
52] o-Xylene	8.01	106	9983	2.245	ppb	100
53) Styrene	8.03	104	15104	2.145	ppb	96
54) Isopropylbenzene	8.36	105	21779	2.051	ppb	95
55) Bromoform	8.19	173	3565	1.921	ppb	93
58) n-Propylbenzene	8.76	91	27858	2.301	ppb	95
59) Bromobenzene	8.65	156	6649	2.243	ppb	90
60) 1,3,5-Trimethylbenzene	8.93	105	18652	2.217	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.65	83	5828	2.086	ppb	97
62) 1,2,3-Trichloropropane	8.69	75	4953	2.068	ppb	97
63) 2-Chlorotoluene	8.84	91	16092	2.270	ppb	97
64) 4-Chlorotoluene	8.94	91	18566	2.260	ppb	92
65) tert-Butylbenzene	9.25	119	16761	2.180	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	19110	2.148	ppb	94
67) sec-Butylbenzene	9.45	105	24787	2.191	ppb	100
68) p-Isopropyltoluene	9.60	119	20851	2.208	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	11296	2.150	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	11496	2.140	ppb	91
71) 1,2-Dichlorobenzene	10.00	146	11187	2.241	ppb	92
72) 1,2-Dibromo-3-chloropr...	10.77	75	1108	2.088	ppb	86
73) 1,2,4-Trichlorobenzene	11.59	180	6725	2.036	ppb	96
74) Hexachlorobutadiene	11.77	225	3668	2.063	ppb	93
75) Naphthalene	11.83	128	15822	2.034	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	6568	2.186	ppb	92

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



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
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 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.03
3 5	Dibromofluoromethane	10.000	9.963	0.4	100	0.01
4 TMP	Dichlorodifluoromethane	2.000	2.049	-2.4	100	0.00
5 TMP	Chloromethane	2.000	2.096	-4.8	100	0.01
6 TMP	Vinyl chloride	2.000	2.119	-6.0	100	0.01
7 TMP	Bromomethane	2.000	2.382	-19.1	94	0.00
8 TMP	Chloroethane	2.000	2.093	-4.6	100	0.01
9 TMP	Trichlorofluoromethane	2.000	2.191	-9.5	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.03
11 TMP	Acetone	10.000	10.668	-6.7	100	0.01
12 TMP	1,1-Dichloroethene	2.000	2.447	-22.4#	118	0.01
13 TMP	Hexane	2.000	2.009	-0.4	100	0.01
14 TMP	Methylene chloride	2.000	2.371	-18.6	100	0.00
15 TMP	t-Butyl alcohol (TBA)	10.000	10.335	-3.4	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	2.000	2.050	-2.5	99	0.01
17 TMP	trans-1,2-Dichloroethene	2.000	2.205	-10.3	100	0.01
18 TMP	Diisopropyl ether (DIPE)	2.000	2.119	-6.0	100	0.01
19 TMP	1,1-Dichloroethane	2.000	2.156	-7.8	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	2.000	2.064	-3.2	100	0.00
21 TMP	2,2-Dichloropropane	2.000	2.208	-10.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	2.000	2.143	-7.1	100	0.01
23 TMP	Chloroform	2.000	2.311	-15.5	100	0.01
24 TMP	2-Butanone (MEK)	10.000	10.225	-2.2	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	2.000	2.211	-10.5	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	2.000	2.341	-17.1	100	0.00
27 TMP	1,1,1-Trichloroethane	2.000	2.166	-8.3	100	0.00
28 TMP	1,1-Dichloropropene	2.000	2.218	-10.9	100	0.00
29 TMP	Carbon tetrachloride	2.000	2.020	-1.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.224	-2.2	100	0.00
31 TMP	Benzene	2.000	2.311	-15.5	100	0.01
32 TMP	Trichloroethene	2.000	2.297	-14.9	100	0.00
33 TMP	1,2-Dichloropropane	2.000	2.257	-12.9	100	0.01
34 TMP	Bromodichloromethane	2.000	2.149	-7.5	100	0.01
35 S	Toluene-d8	10.000	10.077	-0.8	100	0.00
36 TMP	Dibromomethane	2.000	2.162	-8.1	100	0.00
37 TMP	4-Methyl-2-pentanone	10.000	9.942	0.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	2.000	2.030	-1.5	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	2.000	2.265	-13.3	100	0.00
41 TMP	trans-1,3-Dichloropropene	2.000	2.010	-0.5	100	0.00
42 TMP	1,1,2-Trichloroethane	2.000	2.183	-9.1	100	0.01
43 TMP	2-Hexanone	10.000	10.206	-2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	2.000	2.340	-17.0	100	0.00
45	TMP Tetrachloroethene	2.000	2.302	-15.1	100	0.00
46	TMP Dibromochloromethane	2.000	1.942	2.9	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	2.000	2.164	-8.2	100	0.00
48	TMP Chlorobenzene	2.000	2.271	-13.5	100	0.00
49	TMP Ethylbenzene	2.000	2.297	-14.9	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	2.000	1.989	0.5	100	0.00
51	TMP m,p-Xylene	4.000	4.564	-14.1	100	0.00
52	TMP o-Xylene	2.000	2.245	-12.3	100	0.00
53	TMP Styrene	2.000	2.145	-7.3	100	0.00
54	TMP Isopropylbenzene	2.000	2.051	-2.6	100	0.00
55	TMP Bromoform	2.000	1.921	3.9	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	10.325	-3.2	100	0.00
58	TMP n-Propylbenzene	2.000	2.301	-15.1	100	0.00
59	TMP Bromobenzene	2.000	2.243	-12.1	100	0.00
60	TMP 1,3,5-Trimethylbenzene	2.000	2.217	-10.9	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	2.000	2.086	-4.3	100	0.00
62	TMP 1,2,3-Trichloropropane	2.000	2.068	-3.4	100	0.00
63	TMP 2-Chlorotoluene	2.000	2.270	-13.5	100	0.00
64	TMP 4-Chlorotoluene	2.000	2.260	-13.0	100	0.00
65	TMP tert-Butylbenzene	2.000	2.180	-9.0	100	0.00
66	TMP 1,2,4-Trimethylbenzene	2.000	2.148	-7.4	100	0.00
67	TMP sec-Butylbenzene	2.000	2.191	-9.5	100	0.00
68	TMP p-Isopropyltoluene	2.000	2.208	-10.4	100	0.00
69	TMP 1,3-Dichlorobenzene	2.000	2.150	-7.5	100	0.00
70	TMP 1,4-Dichlorobenzene	2.000	2.140	-7.0	100	0.00
71	TMP 1,2-Dichlorobenzene	2.000	2.241	-12.1	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	2.000	2.088	-4.4	100	0.00
73	TMP 1,2,4-Trichlorobenzene	2.000	2.036	-1.8	100	0.00
74	TMP Hexachlorobutadiene	2.000	2.063	-3.2	100	0.00
75	TMP Naphthalene	2.000	2.034	-1.7	100	0.00
76	TMP 1,2,3-Trichlorobenzene	2.000	2.186	-9.3	100	0.00

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	#	0.03
3 S	Dibromofluoromethane	0.271	0.270	0.4	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.928	-2.4	100	0.00
5 TMP	Chloromethane	0.949	0.995	-4.8	100	0.01
6 TMP	Vinyl chloride	0.769	0.814	-5.9	100	0.01
7 TMP	Bromomethane	0.377	0.449	-19.1	94	0.00
8 TMP	Chloroethane	0.323	0.338	-4.6	100	0.01
9 TMP	Trichlorofluoromethane	1.197	1.312	-9.6	100	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	#	0.03
11 TMP	Acetone	0.040	0.042	-5.0	100	0.01
12 TMP	1,1-Dichloroethene	0.288	0.332	-15.3	118	0.01
13 TMP	Hexane	0.394	0.395	-0.3	100	0.01
14 TMP	Methylene chloride	0.244	0.289	-18.4	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.033	0.034	-3.0	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.643	-2.6	99	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.283	-0.4	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.992	-6.0	100	0.01
19 TMP	1,1-Dichloroethane	0.486	0.524	-7.8	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.272	-3.0	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.297	-10.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.309	-6.9	100	0.01
23 TMP	Chloroform	0.454	0.525	-15.6	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.197	-2.1	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.656	-10.4	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.449	2.8	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.439	-8.1	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.381	-11.1	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.358	-1.1	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	1.042	1.126	-8.1	100	0.01
32 TMP	Trichloroethene	0.326	0.344	-5.5	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.304	-13.0	100	0.01
34 TMP	Bromodichloromethane	0.327	0.351	-7.3	100	0.01
35 S	Toluene-d8	1.111	1.120	-0.8	100	0.00
36 TMP	Dibromomethane	0.174	0.188	-8.0	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.056	0.0	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.456	-1.6	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.123	-2.8	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.530	-0.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.353	-9.3	100	0.01
43 TMP	2-Hexanone	0.451	0.460	-2.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072843.D  
 Acq On : 28 Jul 2023 11:46 pm  
 Operator : MD  
 Sample : 2 ppb 8260 ICAL 69-1981  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:23 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.669	-17.0	100	0.00
45 TMP Tetrachloroethene	0.446	0.453	-1.6	100	0.00
46 TMP Dibromochloromethane	0.434	0.422	2.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.456	2.8	100	0.00
48 TMP Chlorobenzene	0.931	1.057	-13.5	100	0.00
49 TMP Ethylbenzene	1.609	1.707	-6.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.327	0.6	100	0.00
51 TMP m,p-Xylene	0.630	0.664	-5.4	100	0.00
52 TMP o-Xylene	0.606	0.642	-5.9	100	0.00
53 TMP Styrene	0.906	0.972	-7.3	100	0.00
54 TMP Isopropylbenzene	1.367	1.402	-2.6	100	0.00
55 TMP Bromoform	0.239	0.229	4.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.930	-3.2	100	0.00
58 TMP n-Propylbenzene	3.326	3.827	-15.1	100	0.00
59 TMP Bromobenzene	0.814	0.913	-12.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.562	-10.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.801	-4.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.680	-3.3	100	0.00
63 TMP 2-Chlorotoluene	1.947	2.210	-13.5	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.550	-13.0	100	0.00
65 TMP tert-Butylbenzene	2.112	2.302	-9.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.625	-7.4	100	0.00
67 TMP sec-Butylbenzene	3.109	3.405	-9.5	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.864	-10.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.552	-7.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.579	-7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.537	-12.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.152	-4.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.924	-1.8	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.504	-3.1	100	0.00
75 TMP Naphthalene	2.138	2.173	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.902	-9.2	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	100020	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	74975	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37029	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	27492	10.130	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%
30) 1,2-Dichloroethane-d4	4.45	102	6179	10.281	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.80%
35) Toluene-d8	6.10	98	111742	10.055	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	100.60%
57) 4-Bromofluorobenzene	8.50	95	33195	9.953	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	99.50%
Target Compounds						
2) Ethanol	2.33	45	499	No Calib		
4) Dichlorodifluoromethane	1.11	85	46045	5.081	ppb	98
5) Chloromethane	1.25	50	44543	4.693	ppb	97
6] Vinyl chloride	1.33	62	36473	4.744	ppb	92
7) Bromomethane	1.57	94	19833	5.263	ppb	82
8] Chloroethane	1.64	64	14496	4.493	ppb	100
9) Trichlorofluoromethane	1.85	101	58512	4.886	ppb	98
10) 2-Propanol	2.33	45	499	No Calib	#	
11) Acetone	2.32	58	9031	22.809	ppb	97
12] 1,1-Dichloroethene	2.26	96	13479	4.977	ppb	89
13) Hexane	3.16	57	18948	4.811	ppb	98
14) Methylene chloride	2.68	84	11322	4.647	ppb	92
15) t-Butyl alcohol (TBA)	2.82	59	7622	23.445	ppb	97
16] Methyl t-butyl ether (...)	2.93	73	30213	4.815	ppb	93
17] trans-1,2-Dichloroethene	2.91	96	12842	5.031	ppb	94
18) Diisopropyl ether (DIPE)	3.34	45	45903	4.903	ppb	97
19] 1,1-Dichloroethane	3.27	63	22820	4.695	ppb	99
20) Ethyl t-butyl ether (E...)	3.65	87	12644	4.793	ppb	94
21) 2,2-Dichloropropane	3.76	77	12910	4.804	ppb	91
22] cis-1,2-Dichloroethene	3.77	96	13536	4.687	ppb	96
23) Chloroform	4.04	83	21575	4.750	ppb	99
24) 2-Butanone (MEK)	3.78	43	49858	25.882	ppb	98
25) t-Amyl methyl ether (T...)	4.60	73	29104	4.900	ppb	98
26] 1,2-Dichloroethane (EDC)	4.52	62	19440	5.108	ppb	98
27] 1,1,1-Trichloroethane	4.19	97	19485	4.801	ppb	99
28) 1,1-Dichloropropene	4.32	75	17199	5.009	ppb	94
29) Carbon tetrachloride	4.32	117	16265	4.588	ppb	94
31] Benzene	4.49	78	48807	5.020	ppb	89
32] Trichloroethene	5.04	95	15087	5.057	ppb	99
33) 1,2-Dichloropropane	5.23	63	12631	4.689	ppb	100
34) Bromodichloromethane	5.48	83	16042	4.904	ppb	92
36) Dibromomethane	5.34	93	8508	4.902	ppb	90

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

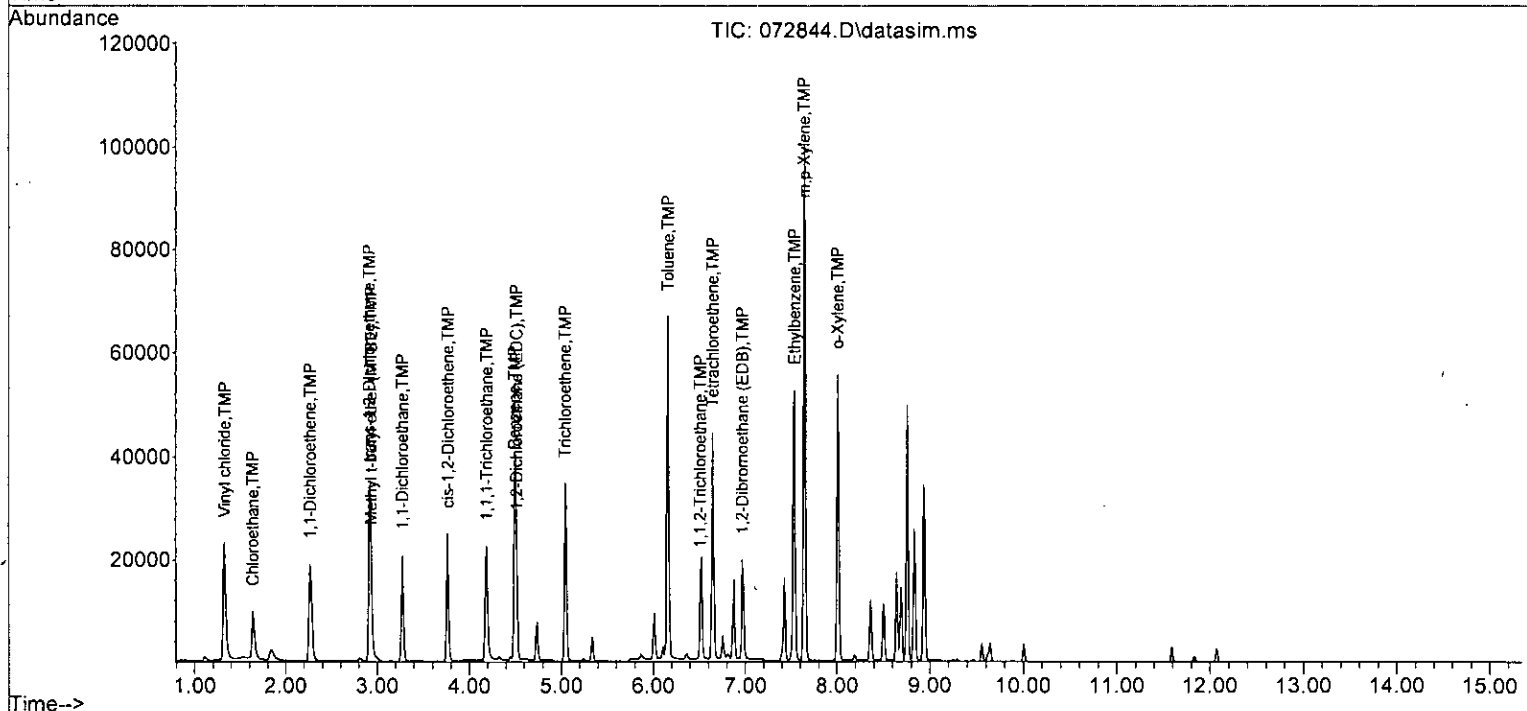
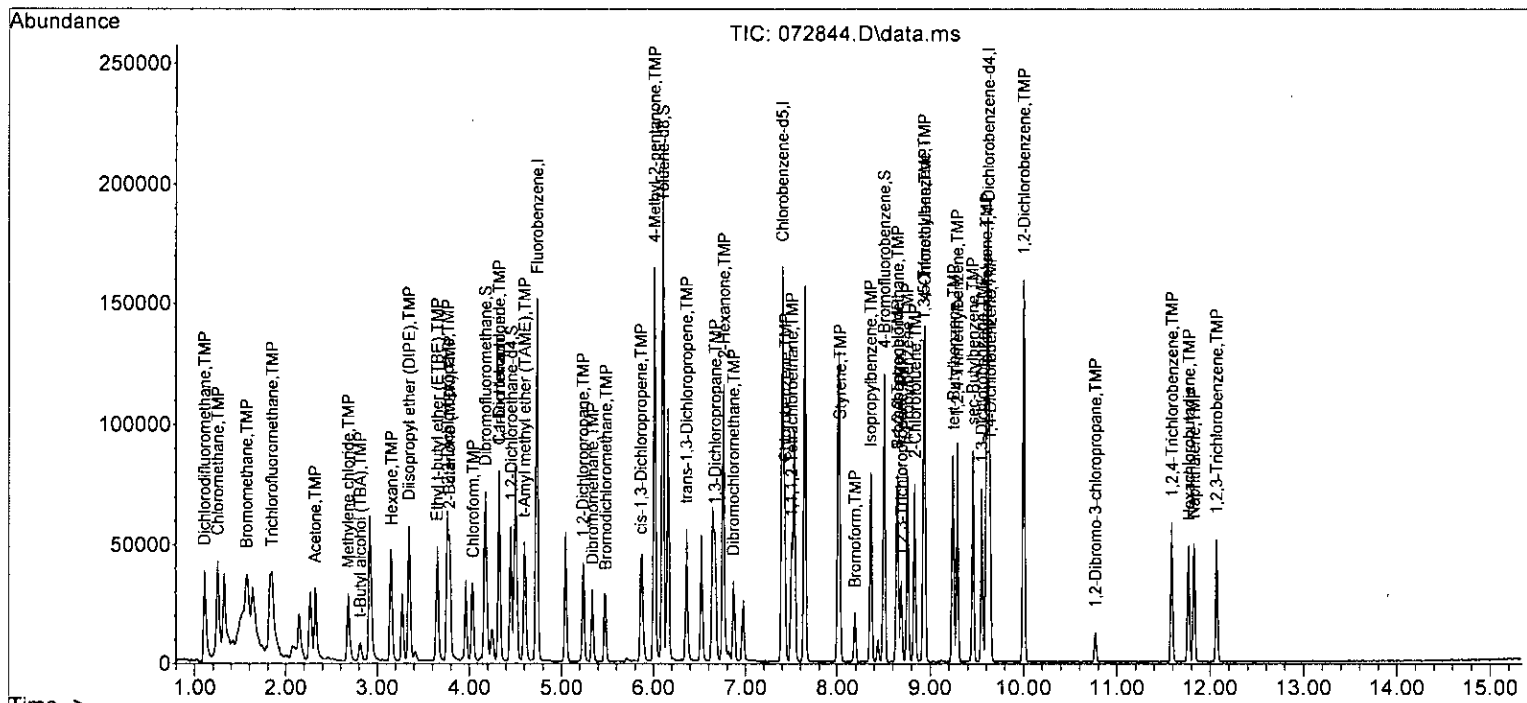
Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QI	on	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85		13259	23.482	ppb	98
38) cis-1,3-Dichloropropene	5.86	75		20442	4.547	ppb	99
40] Toluene	6.16	92		37405	5.051	ppb	97
41) trans-1,3-Dichloropropene	6.36	75		19330	4.889	ppb	99
42] 1,1,2-Trichloroethane	6.51	83		11896	4.905	ppb	94
43) 2-Hexanone	6.76	43		81806	24.204	ppb	95
44) 1,3-Dichloropropane	6.67	76		21148	4.933	ppb	96
45] Tetrachloroethene	6.65	164		14789	5.043	ppb	96
46) Dibromochloromethane	6.87	129		15726	4.828	ppb	95
47] 1,2-Dibromoethane (EDB)	6.97	107		15484	4.916	ppb	97
48) Chlorobenzene	7.43	112		33393	4.785	ppb	99
49] Ethylbenzene	7.54	91		56901	5.120	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131		11667	4.728	ppb	97
51] m,p-Xylene	7.64	106		44782	10.300	ppb	100
52] o-Xylene	8.01	106		21468	5.014	ppb	99
53) Styrene	8.03	104		33237	4.891	ppb	99
54) Isopropylbenzene	8.36	105		49208	4.802	ppb	97
55) Bromoform	8.19	173		8226	4.592	ppb	97
58) n-Propylbenzene	8.75	91		58876	4.781	ppb	98
59) Bromobenzene	8.65	156		13990	4.639	ppb	95
60) 1,3,5-Trimethylbenzene	8.93	105		41374	4.835	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83		13440	4.729	ppb	95
62) 1,2,3-Trichloropropane	8.69	75		10575	4.341	ppb	96
63) 2-Chlorotoluene	8.84	91		34233	4.747	ppb	100
64) 4-Chlorotoluene	8.94	91		41825	5.004	ppb	99
65) tert-Butylbenzene	9.25	119		38285	4.894	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105		43174	4.771	ppb	97
67) sec-Butylbenzene	9.45	105		54945	4.773	ppb	99
68) p-Isopropyltoluene	9.60	119		45983	4.786	ppb	98
69) 1,3-Dichlorobenzene	9.55	146		25867	4.840	ppb	97
70) 1,4-Dichlorobenzene	9.64	146		26364	4.825	ppb	98
71) 1,2-Dichlorobenzene	10.00	146		24359	4.797	ppb	96
72) 1,2-Dibromo-3-chloropr...	10.77	75		2367	4.385	ppb	89
73) 1,2,4-Trichlorobenzene	11.59	180		15456	4.599	ppb	99
74) Hexachlorobutadiene	11.77	225		8800	4.864	ppb	97
75) Naphthalene	11.82	128		35913	4.537	ppb	97
76) 1,2,3-Trichlorobenzene	12.07	180		14062	4.600	ppb	97

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
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Quant Time: Jul 29 09:23:27 2023  
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 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	10.130	-1.3	100	0.01
4 TMP	Dichlorodifluoromethane	5.000	5.081	-1.6	100	0.00
5 TMP	Chloromethane	5.000	4.693	6.1	100	0.00
6 TMP	Vinyl chloride	5.000	4.744	5.1	100	0.01
7 TMP	Bromomethane	5.000	5.263	-5.3	100	0.00
8 TMP	Chloroethane	5.000	4.493	10.1	100	0.00
9 TMP	Trichlorofluoromethane	5.000	4.886	2.3	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	25.000	22.809	8.8	100	0.00
12 TMP	1,1-Dichloroethene	5.000	4.977	0.5	100	0.00
13 TMP	Hexane	5.000	4.811	3.8	100	0.01
14 TMP	Methylene chloride	5.000	4.647	7.1	100	0.00
15 TMP	t-Butyl alcohol (TBA)	25.000	23.445	6.2	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	5.000	4.815	3.7	100	0.01
17 TMP	trans-1,2-Dichloroethene	5.000	5.031	-0.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	5.000	4.903	1.9	100	0.00
19 TMP	1,1-Dichloroethane	5.000	4.695	6.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	5.000	4.793	4.1	100	0.00
21 TMP	2,2-Dichloropropane	5.000	4.804	3.9	100	0.00
22 TMP	cis-1,2-Dichloroethene	5.000	4.687	6.3	100	0.01
23 TMP	Chloroform	5.000	4.750	5.0	100	0.01
24 TMP	2-Butanone (MEK)	25.000	25.882	-3.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	5.000	4.900	2.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	5.000	5.108	-2.2	100	0.00
27 TMP	1,1,1-Trichloroethane	5.000	4.801	4.0	100	0.00
28 TMP	1,1-Dichloropropene	5.000	5.009	-0.2	100	0.00
29 TMP	Carbon tetrachloride	5.000	4.588	8.2	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.281	-2.8	100	0.00
31 TMP	Benzene	5.000	5.020	-0.4	100	0.00
32 TMP	Trichloroethene	5.000	5.057	-1.1	100	0.00
33 TMP	1,2-Dichloropropane	5.000	4.689	6.2	100	0.00
34 TMP	Bromodichloromethane	5.000	4.904	1.9	100	0.01
35 S	Toluene-d8	10.000	10.055	-0.5	100	0.00
36 TMP	Dibromomethane	5.000	4.902	2.0	100	0.00
37 TMP	4-Methyl-2-pentanone	25.000	23.482	6.1	100	0.00
38 TMP	cis-1,3-Dichloropropene	5.000	4.547	9.1	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	5.000	5.051	-1.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	5.000	4.889	2.2	100	0.00
42 TMP	1,1,2-Trichloroethane	5.000	4.905	1.9	100	0.00
43 TMP	2-Hexanone	25.000	24.204	3.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.933	1.3	100	0.00
45 TMP Tetrachloroethene	5.000	5.043	-0.9	100	0.00
46 TMP Dibromochloromethane	5.000	4.828	3.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	4.916	1.7	100	0.00
48 TMP Chlorobenzene	5.000	4.785	4.3	100	0.00
49 TMP Ethylbenzene	5.000	5.120	-2.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.728	5.4	100	0.00
51 TMP m,p-Xylene	10.000	10.300	-3.0	100	0.00
52 TMP o-Xylene	5.000	5.014	-0.3	100	0.00
53 TMP Styrene	5.000	4.891	2.2	100	0.00
54 TMP Isopropylbenzene	5.000	4.802	4.0	100	0.00
55 TMP Bromoform	5.000	4.592	8.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.953	0.5	100	0.00
58 TMP n-Propylbenzene	5.000	4.781	4.4	100	-0.01
59 TMP Bromobenzene	5.000	4.639	7.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.835	3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	4.729	5.4	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.341	13.2	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.747	5.1	100	0.00
64 TMP 4-Chlorotoluene	5.000	5.004	-0.1	100	0.00
65 TMP tert-Butylbenzene	5.000	4.894	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.771	4.6	100	0.00
67 TMP sec-Butylbenzene	5.000	4.773	4.5	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.786	4.3	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.840	3.2	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.825	3.5	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.797	4.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	4.385	12.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.599	8.0	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.864	2.7	100	0.00
75 TMP Naphthalene	5.000	4.537	9.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.600	8.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	0.02
3 S Dibromofluoromethane	0.271	0.275	-1.5	100	0.01
4 TMP Dichlorodifluoromethane	0.906	0.921	-1.7	100	0.00
5 TMP Chloromethane	0.949	0.891	6.1	100	0.00
6 TMP Vinyl chloride	0.769	0.729	5.2	100	0.01
7 TMP Bromomethane	0.377	0.397	-5.3	100	0.00
8 TMP Chloroethane	0.323	0.290	10.2	100	0.00
9 TMP Trichlorofluoromethane	1.197	1.170	2.3	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.02
11 TMP Acetone	0.040	0.036	10.0	100	0.00
12 TMP 1,1-Dichloroethene	0.288	0.270	6.2	100	0.00
13 TMP Hexane	0.394	0.379	3.8	100	0.01
14 TMP Methylene chloride	0.244	0.226	7.4	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.030	9.1	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.604	3.7	100	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.257	8.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	0.918	1.9	100	0.00
19 TMP 1,1-Dichloroethane	0.486	0.456	6.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.253	4.2	100	0.00
21 TMP 2,2-Dichloropropane	0.269	0.258	4.1	100	0.00
22 TMP cis-1,2-Dichloroethene	0.289	0.271	6.2	100	0.01
23 TMP Chloroform	0.454	0.431	5.1	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.199	-3.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.594	0.582	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.389	15.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.390	3.9	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.344	-0.3	100	0.00
29 TMP Carbon tetrachloride	0.354	0.325	8.2	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	1.042	0.976	6.3	100	0.00
32 TMP Trichloroethene	0.326	0.302	7.4	100	0.00
33 TMP 1,2-Dichloropropane	0.269	0.253	5.9	100	0.00
34 TMP Bromodichloromethane	0.327	0.321	1.8	100	0.01
35 S Toluene-d8	1.111	1.117	-0.5	100	0.00
36 TMP Dibromomethane	0.174	0.170	2.3	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.053	5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.409	8.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	0.998	8.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.516	2.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.317	1.9	100	0.00
43 TMP 2-Hexanone	0.451	0.436	3.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072844.D  
 Acq On : 29 Jul 2023 12:09 am  
 Operator : MD  
 Sample : 5 ppb 8260 ICAL 69-198m  
 Misc : soil/water  
 ALS Vial : 30 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:27 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.564	1.4	100	0.00
45 TMP Tetrachloroethene	0.446	0.395	11.4	100	0.00
46 TMP Dibromochloromethane	0.434	0.419	3.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.413	11.9	100	0.00
48 TMP Chlorobenzene	0.931	0.891	4.3	100	0.00
49 TMP Ethylbenzene	1.609	1.518	5.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.311	5.5	100	0.00
51 TMP m,p-Xylene	0.630	0.597	5.2	100	0.00
52 TMP o-Xylene	0.606	0.573	5.4	100	0.00
53 TMP Styrene	0.906	0.887	2.1	100	0.00
54 TMP Isopropylbenzene	1.367	1.313	4.0	100	0.00
55 TMP Bromoform	0.239	0.219	8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.896	0.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.180	4.4	100	-0.01
59 TMP Bromobenzene	0.814	0.756	7.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.235	3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.726	5.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.571	13.2	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.849	5.0	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.259	-0.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.068	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.332	4.6	100	0.00
67 TMP sec-Butylbenzene	3.109	2.968	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.484	4.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.397	3.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.424	3.5	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.316	4.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.128	12.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.835	8.0	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.475	2.9	100	0.00
75 TMP Naphthalene	2.138	1.940	9.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.760	8.0	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	95959	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	72838	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36121	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.16	113	26865	10.318	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.20%		
30) 1,2-Dichloroethane-d4	4.45	102	6089	10.560	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	105.60%		
35) Toluene-d8	6.10	98	108338	10.162	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	101.60%		
57) 4-Bromofluorobenzene	8.50	95	31951	9.821	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	98.20%		
<b>Target Compounds</b>							
2) Ethanol	2.31	45	389	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	87868	10.105	ppb	96	
5) Chloromethane	1.25	50	88003	9.663	ppb	95	
6] Vinyl chloride	1.32	62	70834	9.603	ppb	100	
7) Bromomethane	1.57	94	35849	9.917	ppb	88	
8] Chloroethane	1.64	64	28661	9.259	ppb	98	
9) Trichlorofluoromethane	1.84	101	116514	10.141	ppb	98	
10) 2-Propanol	2.31	45	389	No Calib			
11) Acetone	2.32	58	17669	46.514	ppb	94	
12] 1,1-Dichloroethene	2.26	96	26761	10.310	ppb	96	
13) Hexane	3.15	57	38394	10.161	ppb	95	
14) Methylene chloride	2.68	84	23668	10.126	ppb	98	
15) t-Butyl alcohol (TBA)	2.81	59	14845	47.594	ppb	100	
16] Methyl t-butyl ether (...)	2.92	73	59741	9.925	ppb	97	
17] trans-1,2-Dichloroethene	2.91	96	25626	10.482	ppb	88	
18) Diisopropyl ether (DIPE)	3.34	45	89610	9.976	ppb	97	
19] 1,1-Dichloroethane	3.27	63	46573	9.988	ppb	97	
20) Ethyl t-butyl ether (E...)	3.65	87	25652	10.136	ppb	91	
21) 2,2-Dichloropropane	3.76	77	24858	9.641	ppb	96	
22] cis-1,2-Dichloroethene	3.76	96	27461	9.910	ppb	89	
23) Chloroform	4.03	83	43672	10.022	ppb	92	
24) 2-Butanone (MEK)	3.78	43	87779	47.496	ppb	97	
25) t-Amyl methyl ether (T...)	4.60	73	57687	10.124	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.52	62	38895	10.689	ppb	98	
27] 1,1,1-Trichloroethane	4.19	97	39241	10.079	ppb	98	
28) 1,1-Dichloropropene	4.32	75	33670	10.221	ppb	96	
29) Carbon tetrachloride	4.32	117	34198	10.054	ppb	100	
31] Benzene	4.49	78	98240	10.543	ppb	90	
32] Trichloroethene	5.04	95	29897	10.460	ppb	97	
33) 1,2-Dichloropropane	5.23	63	25530	9.878	ppb	100	
34) Bromodichloromethane	5.47	83	31515	10.042	ppb	95	
36) Dibromomethane	5.34	93	16688	10.022	ppb	94	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

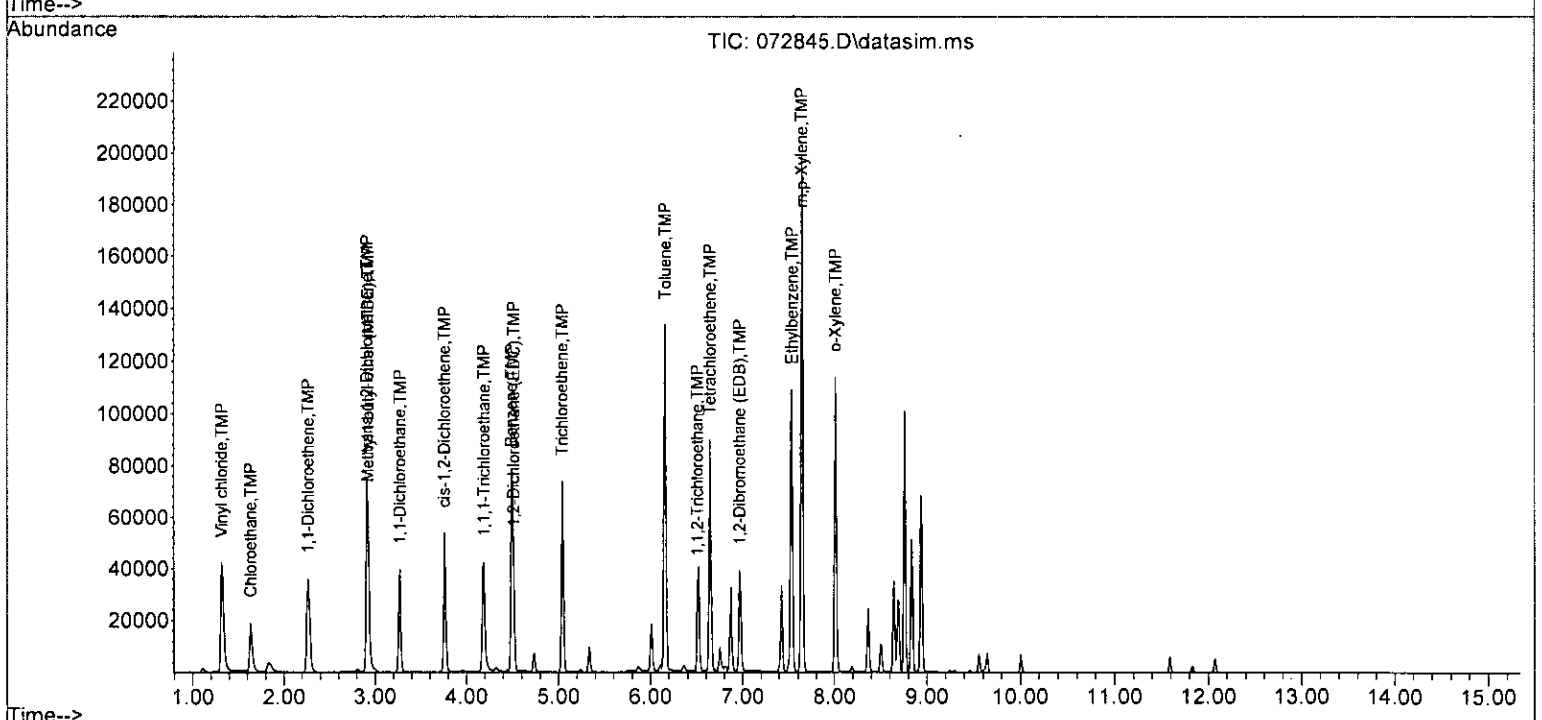
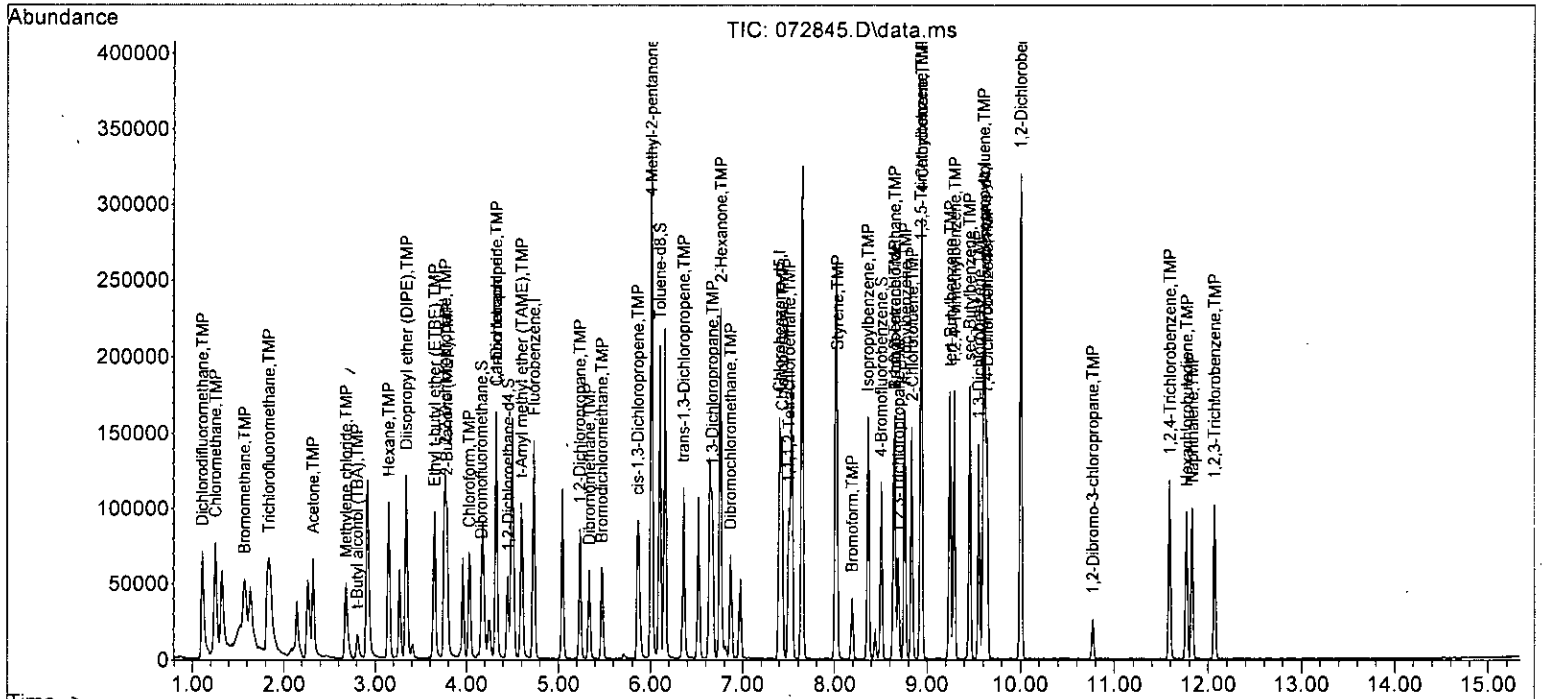
Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	27772	51.265	ppb	96
38) cis-1,3-Dichloropropene	5.86	75	43195	10.016	ppb	99
40] Toluene	6.16	92	75998	10.582	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	38392	9.996	ppb	96
42] 1,1,2-Trichloroethane	6.51	83	23918	10.152	ppb	95
43) 2-Hexanone	6.76	43	164945	50.235	ppb	97
44) 1,3-Dichloropropane	6.67	76	41461	9.956	ppb	92
45] Tetrachloroethene	6.64	164	30113	10.594	ppb	97
46) Dibromochloromethane	6.87	129	30885	9.760	ppb	97
47] 1,2-Dibromoethane (EDB)	6.97	107	31261	10.226	ppb	97
48) Chlorobenzene	7.43	112	68689	10.133	ppb	98
49] Ethylbenzene	7.54	91	115511	10.714	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	23851	9.950	ppb	96
51] m,p-Xylene	7.64	106	90607	21.480	ppb	99
52] o-Xylene	8.01	106	43491	10.466	ppb	99
53) Styrene	8.03	104	66668	10.098	ppb	97
54) Isopropylbenzene	8.36	105	99972	10.042	ppb	99
55) Bromoform	8.19	173	16317	9.377	ppb	99
58) n-Propylbenzene	8.76	91	122078	10.163	ppb	99
59) Bromobenzene	8.65	156	29256	9.945	ppb	99
60) 1,3,5-Trimethylbenzene	8.93	105	86108	10.316	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	26921	9.710	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	21625	9.101	ppb	96
63) 2-Chlorotoluene	8.84	91	72041	10.241	ppb	98
64) 4-Chlorotoluene	8.94	91	82698	10.143	ppb	99
65) tert-Butylbenzene	9.25	119	76610	10.040	ppb	100
66) 1,2,4-Trimethylbenzene	9.29	105	88293	10.002	ppb	97
67) sec-Butylbenzene	9.45	105	112495	10.019	ppb	100
68) p-Isopropyltoluene	9.61	119	94848	10.120	ppb	98
69) 1,3-Dichlorobenzene	9.55	146	52120	9.998	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	52026	9.762	ppb	96
71) 1,2-Dichlorobenzene	10.00	146	49422	9.978	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	4659	8.848	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	31559	9.626	ppb	99
74) Hexachlorobutadiene	11.77	225	17846	10.112	ppb	97
75) Naphthalene	11.83	128	72467	9.386	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	28903	9.692	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.00
3 S Dibromofluoromethane	10.000	10.318	-3.2	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.105	-1.1	100	0.00
5 TMP Chloromethane	10.000	9.663	3.4	100	0.00
6 TMP Vinyl chloride	10.000	9.603	4.0	100	0.00
7 TMP Bromomethane	10.000	9.917	0.8	100	0.00
8 TMP Chloroethane	10.000	9.259	7.4	100	0.00
9 TMP Trichlorofluoromethane	10.000	10.141	-1.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	46.514	7.0	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.310	-3.1	100	0.00
13 TMP Hexane	10.000	10.161	-1.6	100	0.00
14 TMP Methylene chloride	10.000	10.126	-1.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	47.594	4.8	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	9.925	0.7	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.482	-4.8	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.976	0.2	100	0.00
19 TMP 1,1-Dichloroethane	10.000	9.988	0.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.136	-1.4	100	0.00
21 TMP 2,2-Dichloropropane	10.000	9.641	3.6	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.910	0.9	100	0.00
23 TMP Chloroform	10.000	10.022	-0.2	100	0.00
24 TMP 2-Butanone (MEK)	50.000	47.496	5.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.124	-1.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.689	-6.9	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.079	-0.8	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.221	-2.2	100	0.00
29 TMP Carbon tetrachloride	10.000	10.054	-0.5	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.560	-5.6	100	0.00
31 TMP Benzene	10.000	10.543	-5.4	100	0.00
32 TMP Trichloroethene	10.000	10.460	-4.6	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.878	1.2	100	0.00
34 TMP Bromodichloromethane	10.000	10.042	-0.4	100	0.00
35 S Toluene-d8	10.000	10.162	-1.6	100	0.00
36 TMP Dibromomethane	10.000	10.022	-0.2	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	51.265	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	10.016	-0.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.582	-5.8	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.996	0.0	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.152	-1.5	100	0.00
43 TMP 2-Hexanone	50.000	50.235	-0.5	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.956	0.4	100	0.00
45 TMP Tetrachloroethene	10.000	10.594	-5.9	100	0.00
46 TMP Dibromochloromethane	10.000	9.760	2.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.226	-2.3	100	0.00
48 TMP Chlorobenzene	10.000	10.133	-1.3	100	0.00
49 TMP Ethylbenzene	10.000	10.714	-7.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.950	0.5	100	0.00
51 TMP m,p-Xylene	20.000	21.480	-7.4	100	0.00
52 TMP o-Xylene	10.000	10.466	-4.7	100	0.00
53 TMP Styrene	10.000	10.098	-1.0	100	0.00
54 TMP Isopropylbenzene	10.000	10.042	-0.4	100	0.00
55 TMP Bromoform	10.000	9.377	6.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.821	1.8	100	0.00
58 TMP n-Propylbenzene	10.000	10.163	-1.6	100	0.00
59 TMP Bromobenzene	10.000	9.945	0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.316	-3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.710	2.9	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.101	9.0	100	0.00
63 TMP 2-Chlorotoluene	10.000	10.241	-2.4	100	0.00
64 TMP 4-Chlorotoluene	10.000	10.143	-1.4	100	0.00
65 TMP tert-Butylbenzene	10.000	10.040	-0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.002	-0.0	100	0.00
67 TMP sec-Butylbenzene	10.000	10.019	-0.2	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.120	-1.2	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.998	0.0	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.762	2.4	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.978	0.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	8.848	11.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.626	3.7	100	0.00
74 TMP Hexachlorobutadiene	10.000	10.112	-1.1	100	0.00
75 TMP Naphthalene	10.000	9.386	6.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.692	3.1	100	0.00

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.00
3 S	Dibromofluoromethane	0.271	0.280	-3.3	100	0.00
4 TMP	Dichlorodifluoromethane	0.906	0.916	-1.1	100	0.00
5 TMP	Chloromethane	0.949	0.917	3.4	100	0.00
6 TMP	Vinyl chloride	0.769	0.738	4.0	100	0.00
7 TMP	Bromomethane	0.377	0.374	0.8	100	0.00
8 TMP	Chloroethane	0.323	0.299	7.4	100	0.00
9 TMP	Trichlorofluoromethane	1.197	1.214	-1.4	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.040	0.037	7.5	100	0.00
12 TMP	1,1-Dichloroethene	0.288	0.279	3.1	100	0.00
13 TMP	Hexane	0.394	0.400	-1.5	100	0.00
14 TMP	Methylene chloride	0.244	0.247	-1.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.033	0.031	6.1	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.623	0.6	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.282	0.267	5.3	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.934	0.2	100	0.00
19 TMP	1,1-Dichloroethane	0.486	0.485	0.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.267	-1.1	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.259	3.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.286	1.0	100	0.00
23 TMP	Chloroform	0.454	0.455	-0.2	100	0.00
24 TMP	2-Butanone (MEK)	0.193	0.183	5.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.601	-1.2	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.405	12.3	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.409	-0.7	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.351	-2.3	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.356	-0.6	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP	Benzene	1.042	1.024	1.7	100	0.00
32 TMP	Trichloroethene	0.326	0.312	4.3	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.266	1.1	100	0.00
34 TMP	Bromodichloromethane	0.327	0.328	-0.3	100	0.00
35 S	Toluene-d8	1.111	1.129	-1.6	100	0.00
36 TMP	Dibromomethane	0.174	0.174	0.0	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.058	-3.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.450	-0.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	1.043	4.5	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.527	0.0	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.328	-1.5	100	0.00
43 TMP	2-Hexanone	0.451	0.453	-0.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072845.D  
 Acq On : 29 Jul 2023 12:32 am  
 Operator : MD  
 Sample : 10 ppb 8260 ICAL 69-198n  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:31 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.569	0.5	100	0.00
45 TMP Tetrachloroethene	0.446	0.413	7.4	100	0.00
46 TMP Dibromochloromethane	0.434	0.424	2.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.429	8.5	100	0.00
48 TMP Chlorobenzene	0.931	0.943	-1.3	100	0.00
49 TMP Ethylbenzene	1.609	1.586	1.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.327	0.6	100	0.00
51 TMP m,p-Xylene	0.630	0.622	1.3	100	0.00
52 TMP o-Xylene	0.606	0.597	1.5	100	0.00
53 TMP Styrene	0.906	0.915	-1.0	100	0.00
54 TMP Isopropylbenzene	1.367	1.373	-0.4	100	0.00
55 TMP Bromoform	0.239	0.224	6.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.885	1.8	100	0.00
58 TMP n-Propylbenzene	3.326	3.380	-1.6	100	0.00
59 TMP Bromobenzene	0.814	0.810	0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.384	-3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.745	3.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.599	9.0	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.994	-2.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.289	-1.4	100	0.00
65 TMP tert-Butylbenzene	2.112	2.121	-0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.444	0.0	100	0.00
67 TMP sec-Butylbenzene	3.109	3.114	-0.2	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.626	-1.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.443	0.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.440	2.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.368	0.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.129	11.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.874	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.494	-1.0	100	0.00
75 TMP Naphthalene	2.138	2.006	6.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.800	3.1	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	94770	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	71267	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36487	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	25988	10.106	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.10%
30) 1,2-Dichloroethane-d4	4.45	102	6226	10.933	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	109.30%
35) Toluene-d8	6.10	98	108389	10.294	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.90%
57) 4-Bromofluorobenzene	8.50	95	32035	9.748	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	97.50%
Target Compounds						
2) Ethanol	2.33	45	697	No Calib		
4) Dichlorodifluoromethane	1.12	85	169125	19.695	ppb	98
5) Chloromethane	1.26	50	176757	19.653	ppb	96
6] Vinyl chloride	1.33	62	139912	19.206	ppb	99
7) Bromomethane	1.58	94	67669	18.954	ppb	92
8] Chloroethane	1.65	64	55966	18.306	ppb	100
9) Trichlorofluoromethane	1.85	101	228754	20.160	ppb	97
10) 2-Propanol	2.33	45	697	No Calib		
11) Acetone	2.33	58	35244	93.944	ppb #	86
12] 1,1-Dichloroethene	2.27	96	51504	20.100	ppb	92
13) Hexane	3.16	57	74919	20.076	ppb	99
14) Methylene chloride	2.69	84	45069	19.523	ppb	97
15) t-Butyl alcohol (TBA)	2.82	59	31295	101.593	ppb	96
16] Methyl t-butyl ether (...)	2.93	73	117260	19.725	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	49517	20.525	ppb	86
18) Diisopropyl ether (DIPE)	3.35	45	177953	20.059	ppb	97
19] 1,1-Dichloroethane	3.27	63	90258	19.599	ppb	95
20) Ethyl t-butyl ether (E...)	3.66	87	51148	20.465	ppb	91
21) 2,2-Dichloropropane	3.77	77	47162	18.521	ppb	97
22] cis-1,2-Dichloroethene	3.77	96	53320	19.484	ppb	96
23) Chloroform	4.04	83	84848	19.715	ppb	97
24) 2-Butanone (MEK)	3.79	43	170305	93.307	ppb	98
25) t-Amyl methyl ether (T...)	4.61	73	112776	20.040	ppb	96
26] 1,2-Dichloroethane (EDC)	4.52	62	74754	20.833	ppb	99
27] 1,1,1-Trichloroethane	4.19	97	77077	20.045	ppb	95
28) 1,1-Dichloropropene	4.33	75	65433	20.112	ppb	95
29) Carbon tetrachloride	4.33	117	67468	20.084	ppb	98
31] Benzene	4.50	78	189748	20.630	ppb	98
32] Trichloroethene	5.05	95	57710	20.458	ppb #	73
33) 1,2-Dichloropropane	5.24	63	50082	19.620	ppb	100
34) Bromodichloromethane	5.48	83	62745	20.244	ppb	99
36) Dibromomethane	5.34	93	32837	19.967	ppb	93

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

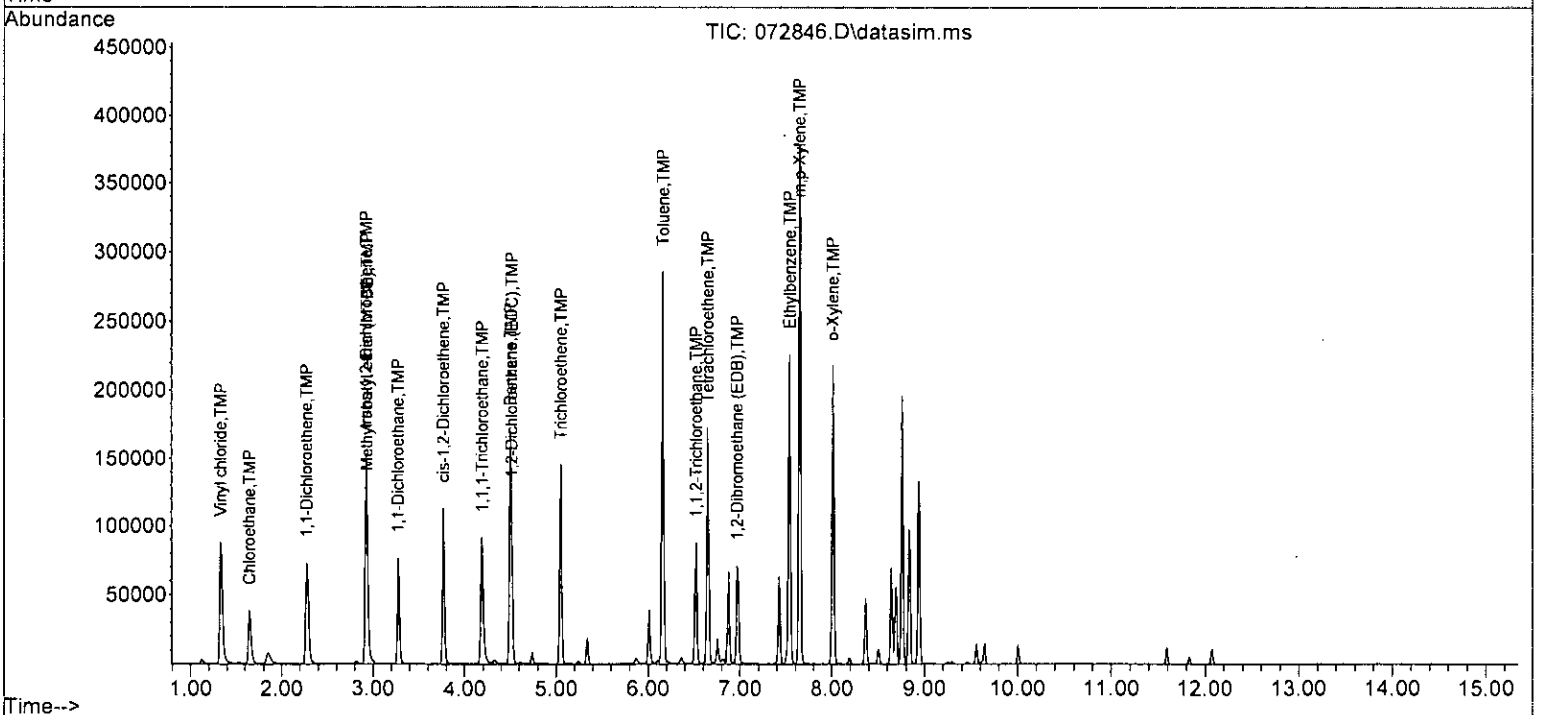
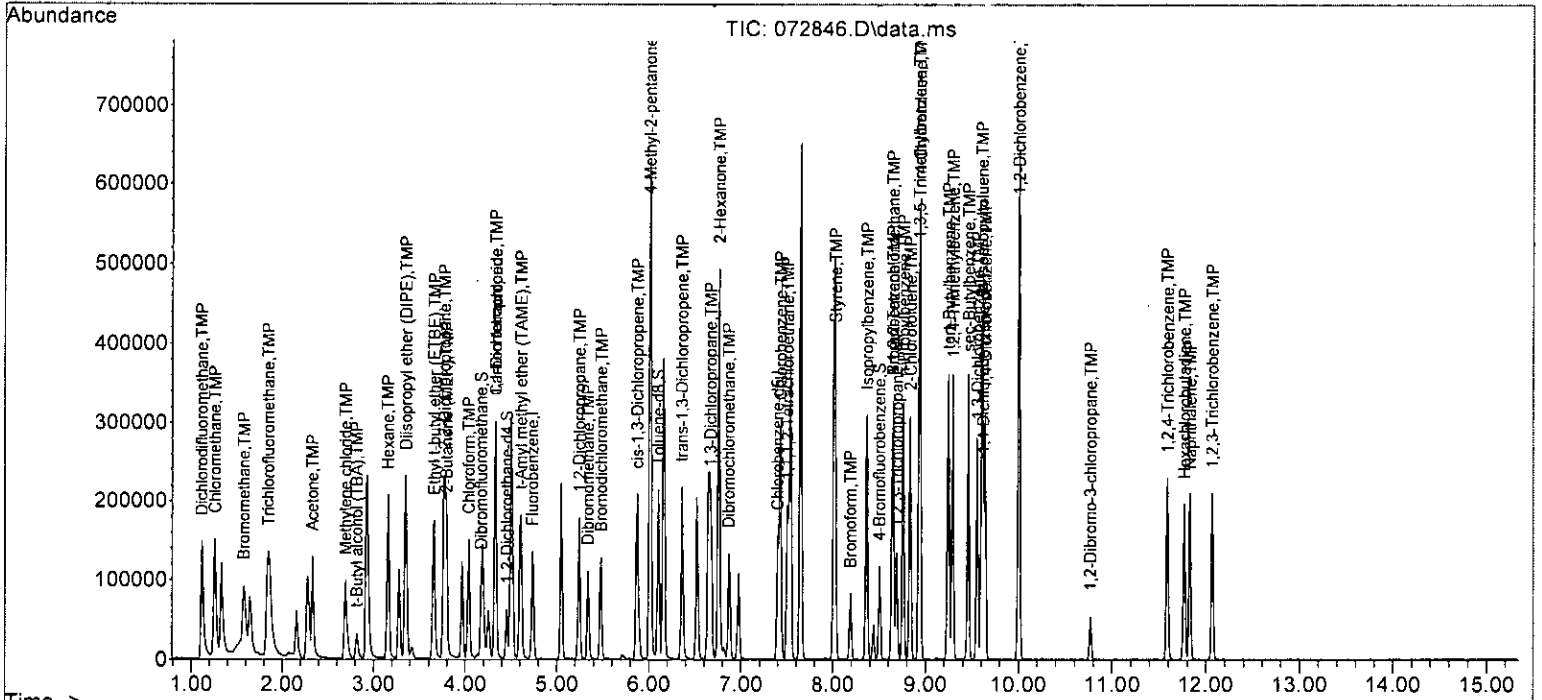
Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	55483	103.703	ppb	97
38) cis-1,3-Dichloropropene	5.87	75	85372	20.044	ppb	97
40] Toluene	6.16	92	148288	21.119	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	75386	20.061	ppb	96
42] 1,1,2-Trichloroethane	6.52	83	46964	20.374	ppb #	74
43) 2-Hexanone	6.76	43	331241	103.104	ppb	97
44) 1,3-Dichloropropane	6.67	76	81410	19.980	ppb	93
45] Tetrachloroethene	6.64	164	58364	21.006	ppb	95
46) Dibromochloromethane	6.87	129	63167	20.402	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	62317	20.844	ppb	96
48) Chlorobenzene	7.43	112	135934	20.494	ppb	98
49] Ethylbenzene	7.54	91	227163	21.547	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	48192	20.548	ppb	98
51] m,p-Xylene	7.64	106	178277	43.222	ppb	98
52] o-Xylene	8.01	106	85859	21.126	ppb	98
53) Styrene	8.03	104	132773	20.553	ppb	100
54) Isopropylbenzene	8.37	105	198348	20.362	ppb	98
55) Bromoform	8.19	173	33078	19.427	ppb	99
58) n-Propylbenzene	8.76	91	240075	19.785	ppb	97
59) Bromobenzene	8.65	156	57556	19.369	ppb	97
60) 1,3,5-Trimethylbenzene	8.93	105	170354	20.204	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.65	83	54315	19.394	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	42937	17.888	ppb	98
63) 2-Chlorotoluene	8.84	91	142745	20.089	ppb	98
64) 4-Chlorotoluene	8.94	91	165909	20.144	ppb	99
65) tert-Butylbenzene	9.25	119	152802	19.825	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	180399	20.231	ppb	100
67) sec-Butylbenzene	9.46	105	226495	19.969	ppb	97
68) p-Isopropyltoluene	9.61	119	193316	20.419	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	105659	20.064	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	106602	19.801	ppb	99
71) 1,2-Dichlorobenzene	10.00	146	99592	19.905	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	10142	19.068	ppb	93
73) 1,2,4-Trichlorobenzene	11.59	180	65277	19.711	ppb	99
74) Hexachlorobutadiene	11.77	225	34666	19.446	ppb	99
75) Naphthalene	11.83	128	151257	19.394	ppb	100
76) 1,2,3-Trichlorobenzene	12.07	180	58203	19.321	ppb	98

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-1980  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	10.106	-1.1	100	0.01
4 TMP	Dichlorodifluoromethane	20.000	19.695	1.5	100	0.00
5 TMP	Chloromethane	20.000	19.653	1.7	100	0.00
6 TMP	Vinyl chloride	20.000	19.206	4.0	100	0.01
7 TMP	Bromomethane	20.000	18.954	5.2	100	0.01
8 TMP	Chloroethane	20.000	18.306	8.5	100	0.01
9 TMP	Trichlorofluoromethane	20.000	20.160	-0.8	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	100.000	93.944	6.1	100	0.01
12 TMP	1,1-Dichloroethene	20.000	20.100	-0.5	100	0.01
13 TMP	Hexane	20.000	20.076	-0.4	100	0.01
14 TMP	Methylene chloride	20.000	19.523	2.4	100	0.00
15 TMP	t-Butyl alcohol (TBA)	100.000	101.593	-1.6	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	20.000	19.725	1.4	100	0.01
17 TMP	trans-1,2-Dichloroethene	20.000	20.525	-2.6	100	0.01
18 TMP	Diisopropyl ether (DIPE)	20.000	20.059	-0.3	100	0.01
19 TMP	1,1-Dichloroethane	20.000	19.599	2.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	20.000	20.465	-2.3	100	0.01
21 TMP	2,2-Dichloropropane	20.000	18.521	7.4	100	0.01
22 TMP	cis-1,2-Dichloroethene	20.000	19.484	2.6	100	0.01
23 TMP	Chloroform	20.000	19.715	1.4	100	0.01
24 TMP	2-Butanone (MEK)	100.000	93.307	6.7	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	20.000	20.040	-0.2	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	20.000	20.833	-4.2	100	0.00
27 TMP	1,1,1-Trichloroethane	20.000	20.045	-0.2	100	0.00
28 TMP	1,1-Dichloropropene	20.000	20.112	-0.6	100	0.01
29 TMP	Carbon tetrachloride	20.000	20.084	-0.4	100	0.01
30 S	1,2-Dichloroethane-d4	10.000	10.933	-9.3	100	0.00
31 TMP	Benzene	20.000	20.630	-3.1	100	0.01
32 TMP	Trichloroethene	20.000	20.458	-2.3	100	0.01
33 TMP	1,2-Dichloropropane	20.000	19.620	1.9	100	0.01
34 TMP	Bromodichloromethane	20.000	20.244	-1.2	100	0.01
35 S	Toluene-d8	10.000	10.294	-2.9	100	0.00
36 TMP	Dibromomethane	20.000	19.967	0.2	100	0.00
37 TMP	4-Methyl-2-pentanone	100.000	103.703	-3.7	100	0.00
38 TMP	cis-1,3-Dichloropropene	20.000	20.044	-0.2	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	20.000	21.119	-5.6	100	0.00
41 TMP	trans-1,3-Dichloropropene	20.000	20.061	-0.3	100	0.00
42 TMP	1,1,2-Trichloroethane	20.000	20.374	-1.9	100	0.01
43 TMP	2-Hexanone	100.000	103.104	-3.1	100	0.00

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	20.000	19.980	0.1	100	0.00
45	TMP Tetrachloroethene	20.000	21.006	-5.0	100	0.00
46	TMP Dibromochloromethane	20.000	20.402	-2.0	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	20.000	20.844	-4.2	100	0.00
48	TMP Chlorobenzene	20.000	20.494	-2.5	100	0.00
49	TMP Ethylbenzene	20.000	21.547	-7.7	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	20.000	20.548	-2.7	100	0.00
51	TMP m,p-Xylene	40.000	43.222	-8.1	100	0.00
52	TMP o-Xylene	20.000	21.126	-5.6	100	0.00
53	TMP Styrene	20.000	20.553	-2.8	100	0.00
54	TMP Isopropylbenzene	20.000	20.362	-1.8	100	0.01
55	TMP Bromoform	20.000	19.427	2.9	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	9.748	2.5	100	0.00
58	TMP n-Propylbenzene	20.000	19.785	1.1	100	0.00
59	TMP Bromobenzene	20.000	19.369	3.2	100	0.00
60	TMP 1,3,5-Trimethylbenzene	20.000	20.204	-1.0	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	20.000	19.394	3.0	100	0.00
62	TMP 1,2,3-Trichloropropane	20.000	17.888	10.6	100	0.00
63	TMP 2-Chlorotoluene	20.000	20.089	-0.4	100	0.00
64	TMP 4-Chlorotoluene	20.000	20.144	-0.7	100	0.00
65	TMP tert-Butylbenzene	20.000	19.825	0.9	100	0.00
66	TMP 1,2,4-Trimethylbenzene	20.000	20.231	-1.2	100	0.00
67	TMP sec-Butylbenzene	20.000	19.969	0.2	100	0.00
68	TMP p-Isopropyltoluene	20.000	20.419	-2.1	100	0.00
69	TMP 1,3-Dichlorobenzene	20.000	20.064	-0.3	100	0.00
70	TMP 1,4-Dichlorobenzene	20.000	19.801	1.0	100	0.00
71	TMP 1,2-Dichlorobenzene	20.000	19.905	0.5	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	20.000	19.068	4.7	100	0.00
73	TMP 1,2,4-Trichlorobenzene	20.000	19.711	1.4	100	0.00
74	TMP Hexachlorobutadiene	20.000	19.446	2.8	100	0.00
75	TMP Naphthalene	20.000	19.394	3.0	100	0.00
76	TMP 1,2,3-Trichlorobenzene	20.000	19.321	3.4	100	0.00

(#) = Out of Range

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



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.02
3 S Dibromofluoromethane	0.271	0.274	-1.1	100	0.01
4 TMP Dichlorodifluoromethane	0.906	0.892	1.5	100	0.00
5 TMP Chloromethane	0.949	0.933	1.7	100	0.00
6 TMP Vinyl chloride	0.769	0.738	4.0	100	0.01
7 TMP Bromomethane	0.377	0.357	5.3	100	0.01
8 TMP Chloroethane	0.323	0.295	8.7	100	0.01
9 TMP Trichlorofluoromethane	1.197	1.207	-0.8	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.040	0.037	7.5	100	0.01
12 TMP 1,1-Dichloroethene	0.288	0.272	5.6	100	0.01
13 TMP Hexane	0.394	0.395	-0.3	100	0.01
14 TMP Methylene chloride	0.244	0.238	2.5	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.033	0.0	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.619	1.3	100	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.261	7.4	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.936	0.939	-0.3	100	0.01
19 TMP 1,1-Dichloroethane	0.486	0.476	2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.270	-2.3	100	0.01
21 TMP 2,2-Dichloropropane	0.269	0.249	7.4	100	0.01
22 TMP cis-1,2-Dichloroethene	0.289	0.281	2.8	100	0.01
23 TMP Chloroform	0.454	0.448	1.3	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.180	6.7	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.594	0.595	-0.2	100	0.01
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.394	14.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.407	-0.2	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.345	-0.6	100	0.01
29 TMP Carbon tetrachloride	0.354	0.356	-0.6	100	0.01
30 S 1,2-Dichloroethane-d4	0.060	0.066	-10.0	100	0.00
31 TMP Benzene	1.042	1.001	3.9	100	0.01
32 TMP Trichloroethene	0.326	0.304	6.7	100	0.01
33 TMP 1,2-Dichloropropane	0.269	0.264	1.9	100	0.01
34 TMP Bromodichloromethane	0.327	0.331	-1.2	100	0.01
35 S Toluene-d8	1.111	1.144	-3.0	100	0.00
36 TMP Dibromomethane	0.174	0.173	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.059	-5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.450	-0.2	100	0.01
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	1.040	4.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.529	-0.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.329	-1.9	100	0.01
43 TMP 2-Hexanone	0.451	0.465	-3.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072846.D  
 Acq On : 29 Jul 2023 12:55 am  
 Operator : MD  
 Sample : 20 ppb 8260 ICAL 69-198o  
 Misc : soil/water  
 ALS Vial : 32 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:35 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.571	0.2	100	0.00
45 TMP Tetrachloroethene	0.446	0.409	8.3	100	0.00
46 TMP Dibromochloromethane	0.434	0.443	-2.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.437	6.8	100	0.00
48 TMP Chlorobenzene	0.931	0.954	-2.5	100	0.00
49 TMP Ethylbenzene	1.609	1.594	0.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.338	-2.7	100	0.00
51 TMP m,p-Xylene	0.630	0.625	0.8	100	0.00
52 TMP o-Xylene	0.606	0.602	0.7	100	0.00
53 TMP Styrene	0.906	0.932	-2.9	100	0.00
54 TMP Isopropylbenzene	1.367	1.392	-1.8	100	0.01
55 TMP Bromoform	0.239	0.232	2.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.878	2.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.290	1.1	100	0.00
59 TMP Bromobenzene	0.814	0.789	3.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.334	-1.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.744	3.1	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.588	10.6	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.956	-0.5	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.274	-0.8	100	0.00
65 TMP tert-Butylbenzene	2.112	2.094	0.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.472	-1.1	100	0.00
67 TMP sec-Butylbenzene	3.109	3.104	0.2	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.649	-2.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.448	-0.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.461	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.365	0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.139	4.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.895	1.4	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.475	2.9	100	0.00
75 TMP Naphthalene	2.138	2.073	3.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.798	3.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	92141	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	71248	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36130	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	25653	10.260	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.60%	
30) 1,2-Dichloroethane-d4	4.45	102	5406	9.764	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	97.60%	
35) Toluene-d8	6.10	98	106485	10.402	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	104.00%	
57) 4-Bromofluorobenzene	8.50	95	32704	10.050	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.50%	
Target Compounds							
							Qvalue
2) Ethanol	2.33	45	1666	No Calib			
4) Dichlorodifluoromethane	1.11	85	424485	50.842	ppb		98
5) Chloromethane	1.25	50	439335	50.242	ppb		100
6] Vinyl chloride	1.33	62	344438	48.630	ppb		95
7) Bromomethane	1.57	94	163235	47.025	ppb		94
8] Chloroethane	1.65	64	136217	45.828	ppb		97
9) Trichlorofluoromethane	1.85	101	553370	50.159	ppb		98
10) 2-Propanol	2.33	45	1666	No Calib			
11) Acetone	2.32	58	96377	264.226	ppb		98
12] 1,1-Dichloroethene	2.27	96	124872	50.139	ppb		97
13) Hexane	3.16	57	179854	49.570	ppb		97
14) Methylene chloride	2.68	84	108843	48.494	ppb		96
15) t-Butyl alcohol (TBA)	2.81	59	74374	248.330	ppb		98
16] Methyl t-butyl ether (...)	2.93	73	279410	48.341	ppb		93
17] trans-1,2-Dichloroethene	2.91	96	119794	51.095	ppb		98
18) Diisopropyl ether (DIPE)	3.34	45	435483	50.488	ppb		98
19] 1,1-Dichloroethane	3.27	63	218097	48.710	ppb		99
20) Ethyl t-butyl ether (E...)	3.65	87	123680	50.898	ppb		96
21) 2,2-Dichloropropane	3.76	77	111479	45.027	ppb		97
22] cis-1,2-Dichloroethene	3.77	96	129033	48.495	ppb		96
23) Chloroform	4.04	83	209871	50.156	ppb		94
24) 2-Butanone (MEK)	3.78	43	466458	262.855	ppb		99
25) t-Amyl methyl ether (T...)	4.60	73	280288	51.227	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	178997	51.356	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	188771	50.494	ppb		99
28) 1,1-Dichloropropene	4.32	75	160548	50.755	ppb		98
29) Carbon tetrachloride	4.32	117	170135	52.090	ppb		100
31] Benzene	4.50	78	455671	50.973	ppb		99
32] Trichloroethene	5.04	95	138003	50.337	ppb		98
33) 1,2-Dichloropropane	5.24	63	122330	49.291	ppb		100
34) Bromodichloromethane	5.48	83	157042	52.114	ppb		99
36) Dibromomethane	5.34	93	79532	49.740	ppb		96

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

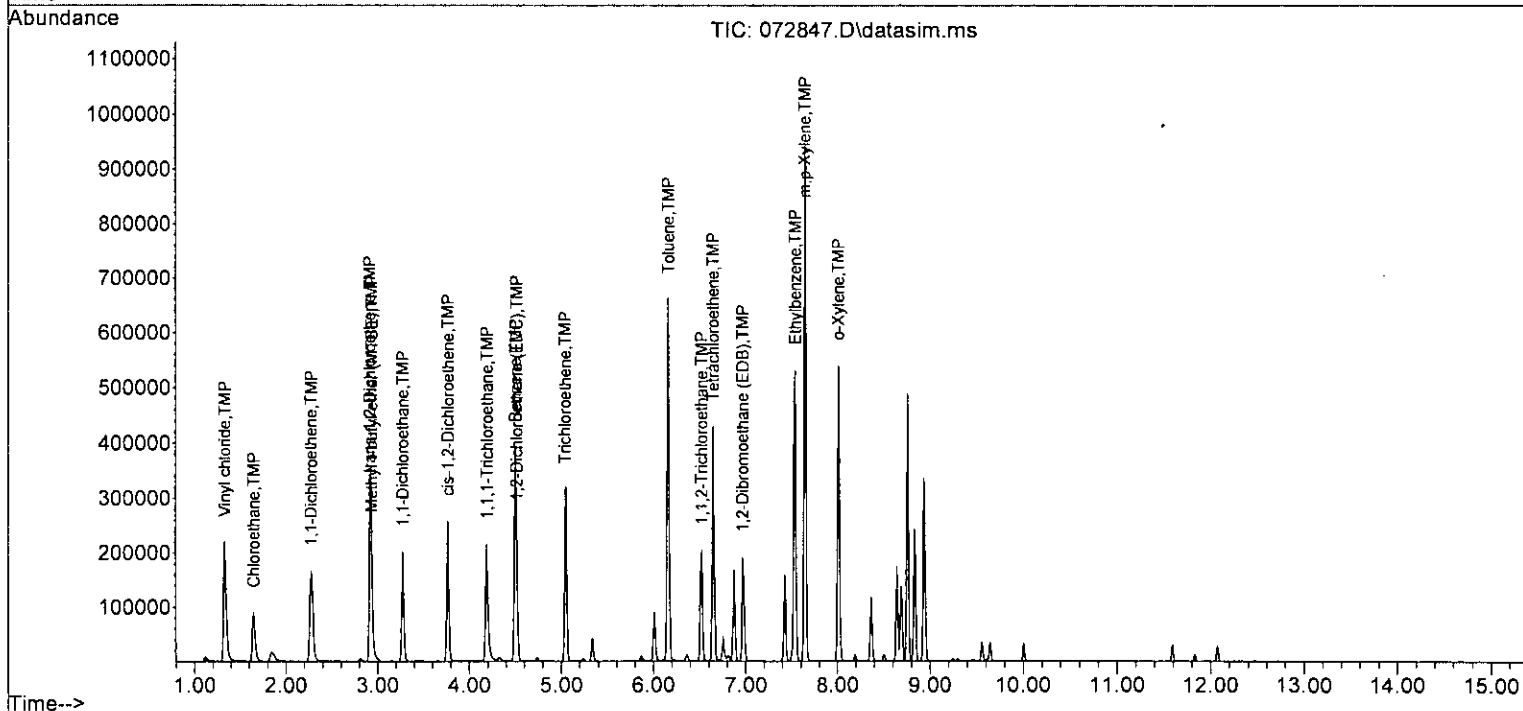
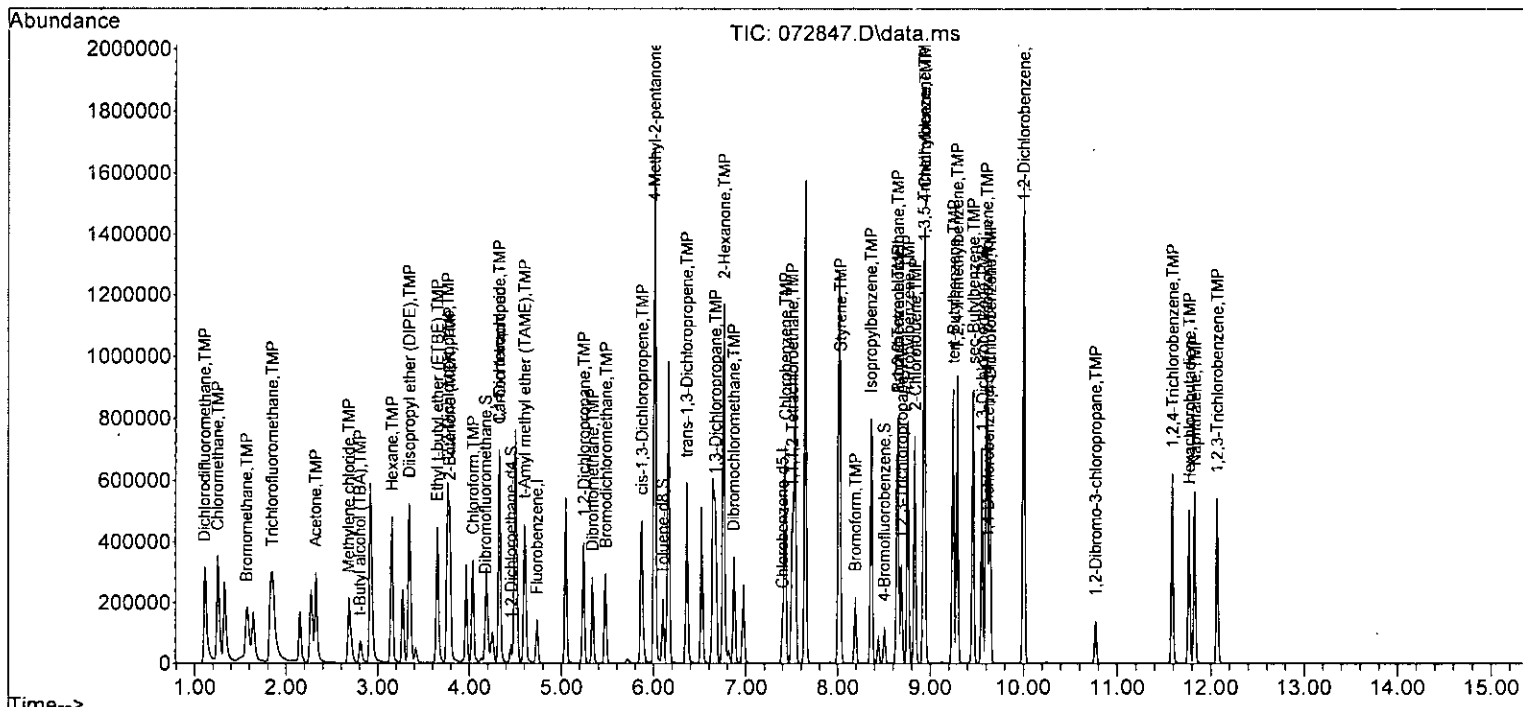
Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	136617	262.636	ppb	95
38) cis-1,3-Dichloropropene	5.87	75	218768	52.828	ppb	93
40] Toluene	6.16	92	362588	51.678	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	199322	53.055	ppb	98
42] 1,1,2-Trichloroethane	6.52	83	116648	50.617	ppb #	71
43) 2-Hexanone	6.76	43	833504	259.511	ppb	95
44) 1,3-Dichloropropane	6.67	76	205093	50.347	ppb	95
45] Tetrachloroethene	6.64	164	143194	51.583	ppb	96
46) Dibromochloromethane	6.87	129	162888	52.624	ppb	98
47] 1,2-Dibromoethane (EDB)	6.97	107	154593	51.737	ppb	97
48) Chlorobenzene	7.43	112	333445	50.285	ppb	99
49] Ethylbenzene	7.54	91	557507	52.914	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	121390	51.771	ppb	99
51] m,p-Xylene	7.64	106	436367	105.862	ppb	99
52] o-Xylene	8.01	106	212687	52.361	ppb	98
53) Styrene	8.03	104	335584	51.962	ppb	99
54) Isopropylbenzene	8.36	105	500426	51.387	ppb	100
55) Bromoform	8.19	173	89828	52.772	ppb	96
58) n-Propylbenzene	8.76	91	598850	49.840	ppb	98
59) Bromobenzene	8.65	156	143672	48.827	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	423793	50.759	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	136430	49.196	ppb	99
62) 1,2,3-Trichloropropane	8.69	75	106493	44.806	ppb	98
63) 2-Chlorotoluene	8.84	91	345192	49.060	ppb	100
64) 4-Chlorotoluene	8.94	91	411244	50.425	ppb	99
65) tert-Butylbenzene	9.25	119	382032	50.055	ppb	100
66) 1,2,4-Trimethylbenzene	9.29	105	450008	50.965	ppb	99
67) sec-Butylbenzene	9.46	105	566496	50.440	ppb	97
68) p-Isopropyltoluene	9.61	119	489428	52.207	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	264179	50.662	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	265121	49.732	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	249083	50.274	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	25419	48.264	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	166312	50.716	ppb	97
74) Hexachlorobutadiene	11.77	225	89178	50.519	ppb	97
75) Naphthalene	11.83	128	405212	52.469	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	153166	51.348	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.260	-2.6	100	0.01
4 TMP Dichlorodifluoromethane	50.000	50.842	-1.7	100	0.00
5 TMP Chloromethane	50.000	50.242	-0.5	100	0.00
6 TMP Vinyl chloride	50.000	48.630	2.7	100	0.01
7 TMP Bromomethane	50.000	47.025	6.0	100	0.00
8 TMP Chloroethane	50.000	45.828	8.3	100	0.01
9 TMP Trichlorofluoromethane	50.000	50.159	-0.3	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	250.000	264.226	-5.7	100	0.00
12 TMP 1,1-Dichloroethene	50.000	50.139	-0.3	100	0.01
13 TMP Hexane	50.000	49.570	0.9	100	0.01
14 TMP Methylene chloride	50.000	48.494	3.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	248.330	0.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	50.000	48.341	3.3	100	0.01
17 TMP trans-1,2-Dichloroethene	50.000	51.095	-2.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	50.488	-1.0	100	0.00
19 TMP 1,1-Dichloroethane	50.000	48.710	2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	50.898	-1.8	100	0.00
21 TMP 2,2-Dichloropropane	50.000	45.027	9.9	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	48.495	3.0	100	0.01
23 TMP Chloroform	50.000	50.156	-0.3	100	0.01
24 TMP 2-Butanone (MEK)	250.000	262.855	-5.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	51.227	-2.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	51.356	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	50.494	-1.0	100	0.00
28 TMP 1,1-Dichloropropene	50.000	50.755	-1.5	100	0.00
29 TMP Carbon tetrachloride	50.000	52.090	-4.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.764	2.4	100	0.00
31 TMP Benzene	50.000	50.973	-1.9	100	0.01
32 TMP Trichloroethene	50.000	50.337	-0.7	100	0.00
33 TMP 1,2-Dichloropropane	50.000	49.291	1.4	100	0.01
34 TMP Bromodichloromethane	50.000	52.114	-4.2	100	0.01
35 S Toluene-d8	10.000	10.402	-4.0	100	0.00
36 TMP Dibromomethane	50.000	49.740	0.5	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	262.636	-5.1	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	52.828	-5.7	100	0.01
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	51.678	-3.4	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	53.055	-6.1	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	50.617	-1.2	100	0.01
43 TMP 2-Hexanone	250.000	259.511	-3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	50.347	-0.7	100	0.00
45 TMP Tetrachloroethene	50.000	51.583	-3.2	100	0.00
46 TMP Dibromochloromethane	50.000	52.624	-5.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	51.737	-3.5	100	0.00
48 TMP Chlorobenzene	50.000	50.285	-0.6	100	0.00
49 TMP Ethylbenzene	50.000	52.914	-5.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	51.771	-3.5	100	0.00
51 TMP m,p-Xylene	100.000	105.862	-5.9	100	0.00
52 TMP o-Xylene	50.000	52.361	-4.7	100	0.00
53 TMP Styrene	50.000	51.962	-3.9	100	0.00
54 TMP Isopropylbenzene	50.000	51.387	-2.8	100	0.00
55 TMP Bromoform	50.000	52.772	-5.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.050	-0.5	100	0.00
58 TMP n-Propylbenzene	50.000	49.840	0.3	100	0.00
59 TMP Bromobenzene	50.000	48.827	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	50.759	-1.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	49.196	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	44.806	10.4	100	0.00
63 TMP 2-Chlorotoluene	50.000	49.060	1.9	100	0.00
64 TMP 4-Chlorotoluene	50.000	50.425	-0.8	100	0.00
65 TMP tert-Butylbenzene	50.000	50.055	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	50.965	-1.9	100	0.00
67 TMP sec-Butylbenzene	50.000	50.440	-0.9	100	0.00
68 TMP p-Isopropyltoluene	50.000	52.207	-4.4	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	50.662	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	49.732	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	50.274	-0.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	48.264	3.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.716	-1.4	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.519	-1.0	100	0.00
75 TMP Naphthalene	50.000	52.469	-4.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	51.348	-2.7	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	0.02
3 S Dibromofluoromethane	0.271	0.278	-2.6	100	0.01
4 TMP Dichlorodifluoromethane	0.906	0.921	-1.7	100	0.00
5 TMP Chloromethane	0.949	0.954	-0.5	100	0.00
6 TMP Vinyl chloride	0.769	0.748	2.7	100	0.01
7 TMP Bromomethane	0.377	0.354	6.1	100	0.00
8 TMP Chloroethane	0.323	0.296	8.4	100	0.01
9 TMP Trichlorofluoromethane	1.197	1.201	-0.3	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.02
11 TMP Acetone	0.040	0.042	-5.0	100	0.00
12 TMP 1,1-Dichloroethene	0.288	0.271	5.9	100	0.01
13 TMP Hexane	0.394	0.390	1.0	100	0.01
14 TMP Methylene chloride	0.244	0.236	3.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.032	3.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.606	3.3	100	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.260	7.8	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	0.945	-1.0	100	0.00
19 TMP 1,1-Dichloroethane	0.486	0.473	2.7	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.268	-1.5	100	0.00
21 TMP 2,2-Dichloropropane	0.269	0.242	10.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.289	0.280	3.1	100	0.01
23 TMP Chloroform	0.454	0.456	-0.4	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.202	-4.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.594	0.608	-2.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.389	15.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.410	-1.0	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.348	-1.5	100	0.00
29 TMP Carbon tetrachloride	0.354	0.369	-4.2	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.042	0.989	5.1	100	0.01
32 TMP Trichloroethene	0.326	0.300	8.0	100	0.00
33 TMP 1,2-Dichloropropane	0.269	0.266	1.1	100	0.01
34 TMP Bromodichloromethane	0.327	0.341	-4.3	100	0.01
35 S Toluene-d8	1.111	1.156	-4.1	100	0.00
36 TMP Dibromomethane	0.174	0.173	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.059	-5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.475	-5.8	100	0.01
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	1.018	6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.560	-6.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.327	-1.2	100	0.01
43 TMP 2-Hexanone	0.451	0.468	-3.8	100	0.00



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072847.D  
 Acq On : 29 Jul 2023 01:19 am  
 Operator : MD  
 Sample : 50 ppb 8260 ICAL 69-198q  
 Misc : soil/water  
 ALS Vial : 33 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:38 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.576	-0.7	100	0.00
45 TMP Tetrachloroethene	0.446	0.402	9.9	100	0.00
46 TMP Dibromochloromethane	0.434	0.457	-5.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.434	7.5	100	0.00
48 TMP Chlorobenzene	0.931	0.936	-0.5	100	0.00
49 TMP Ethylbenzene	1.609	1.565	2.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.341	-3.6	100	0.00
51 TMP m,p-Xylene	0.630	0.612	2.9	100	0.00
52 TMP o-Xylene	0.606	0.597	1.5	100	0.00
53 TMP Styrene	0.906	0.942	-4.0	100	0.00
54 TMP Isopropylbenzene	1.367	1.405	-2.8	100	0.00
55 TMP Bromoform	0.239	0.252	-5.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.905	-0.4	100	0.00
58 TMP n-Propylbenzene	3.326	3.315	0.3	100	0.00
59 TMP Bromobenzene	0.814	0.795	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.346	-1.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.755	1.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.589	10.5	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.911	1.8	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.276	-0.8	100	0.00
65 TMP tert-Butylbenzene	2.112	2.115	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.491	-1.9	100	0.00
67 TMP sec-Butylbenzene	3.109	3.136	-0.9	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.709	-4.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.462	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.468	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.379	-0.6	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.141	3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.921	-1.4	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.494	-1.0	100	0.00
75 TMP Naphthalene	2.138	2.243	-4.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.848	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	91235	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	71914	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36683	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	24405	9.858	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.60%	
30) 1,2-Dichloroethane-d4	4.45	102	5612	10.237	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.40%	
35) Toluene-d8	6.10	98	105285	10.387	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	103.90%	
57) 4-Bromofluorobenzene	8.50	95	32732	9.907	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	99.10%	
Target Compounds							
							Qvalue
2) Ethanol	2.32	45	3155	No Calib			
4) Dichlorodifluoromethane	1.11	85	858946	103.900	ppb	100	
5) Chloromethane	1.25	50	882686	101.945	ppb	100	
6] Vinyl chloride	1.33	62	684898	97.659	ppb	92	
7) Bromomethane	1.57	94	325811	94.793	ppb	97	
8] Chloroethane	1.64	64	269619	91.610	ppb	99	
9) Trichlorofluoromethane	1.84	101	1153395	105.585	ppb	98	
10) 2-Propanol	2.32	45	3155	No Calib			
11) Acetone	2.32	58	183501	508.081	ppb	98	
12] 1,1-Dichloroethene	2.27	96	244058	98.977	ppb	93	
13) Hexane	3.15	57	352914	98.233	ppb	97	
14) Methylene chloride	2.68	84	215152	96.812	ppb	94	
15) t-Butyl alcohol (TBA)	2.81	59	149031	502.546	ppb	100	
16] Methyl t-butyl ether (...)	2.92	73	547864	95.728	ppb	98	
17] trans-1,2-Dichloroethene	2.91	96	229851	99.025	ppb	93	
18) Diisopropyl ether (DIPE)	3.34	45	839010	98.237	ppb	97	
19] 1,1-Dichloroethane	3.27	63	419606	94.645	ppb	98	
20) Ethyl t-butyl ether (E...)	3.65	87	241551	100.392	ppb	93	
21) 2,2-Dichloropropane	3.76	77	262454	107.060	ppb	95	
22] cis-1,2-Dichloroethene	3.77	96	247471	93.932	ppb	95	
23) Chloroform	4.04	83	404230	97.564	ppb	94	
24) 2-Butanone (MEK)	3.78	43	891473	507.345	ppb	98	
25) t-Amyl methyl ether (T...)	4.60	73	543163	100.258	ppb	100	
26] 1,2-Dichloroethane (EDC)	4.52	62	344696	99.910	ppb	99	
27] 1,1,1-Trichloroethane	4.19	97	372152	100.535	ppb	99	
28) 1,1-Dichloropropene	4.32	75	314387	100.377	ppb	96	
29) Carbon tetrachloride	4.32	117	331983	102.653	ppb	98	
31] Benzene	4.50	78	882581	99.719	ppb	98	
32] Trichloroethene	5.04	95	271031	99.855	ppb	98	
33) 1,2-Dichloropropane	5.24	63	239092	97.294	ppb	99	
34) Bromodichloromethane	5.48	83	309208	103.628	ppb	98	
36) Dibromomethane	5.34	93	158004	99.798	ppb	96	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

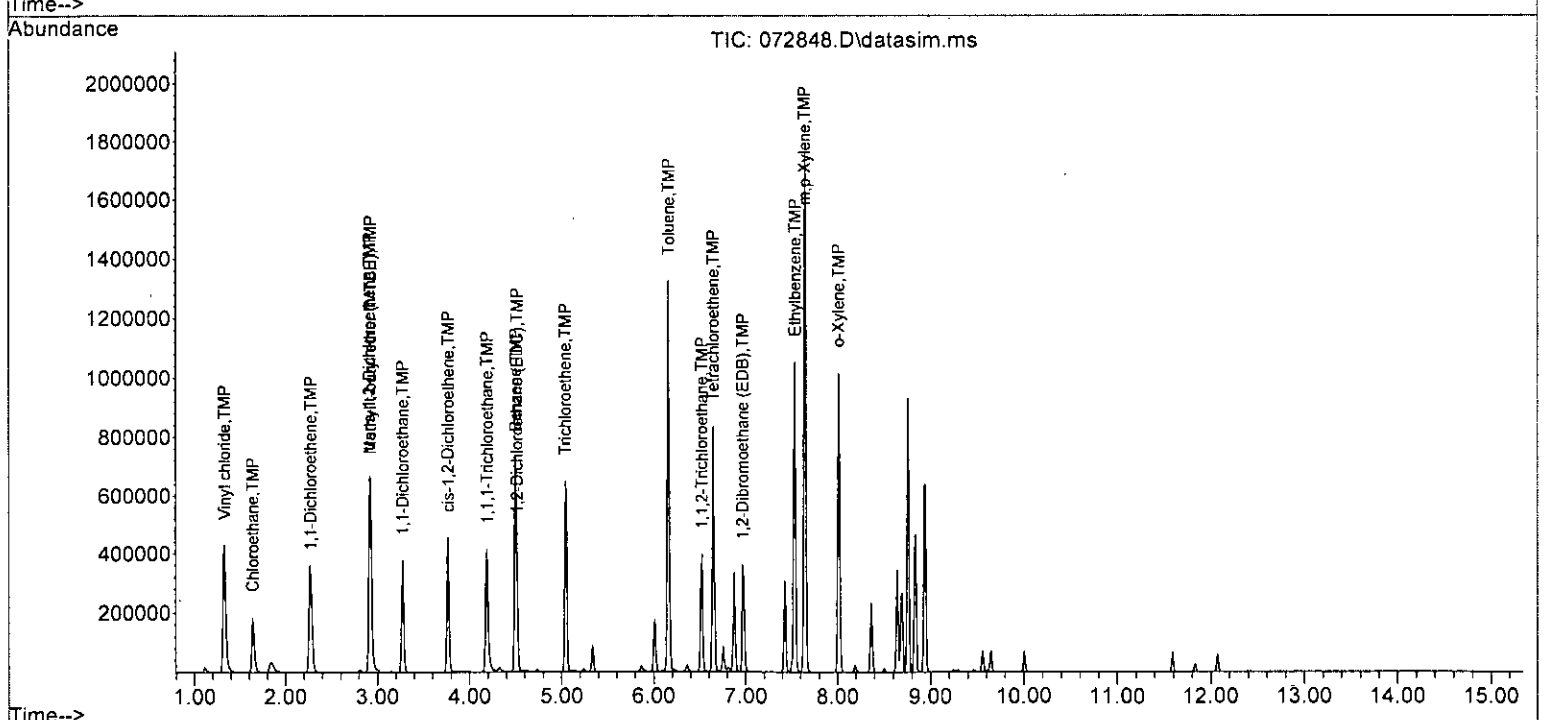
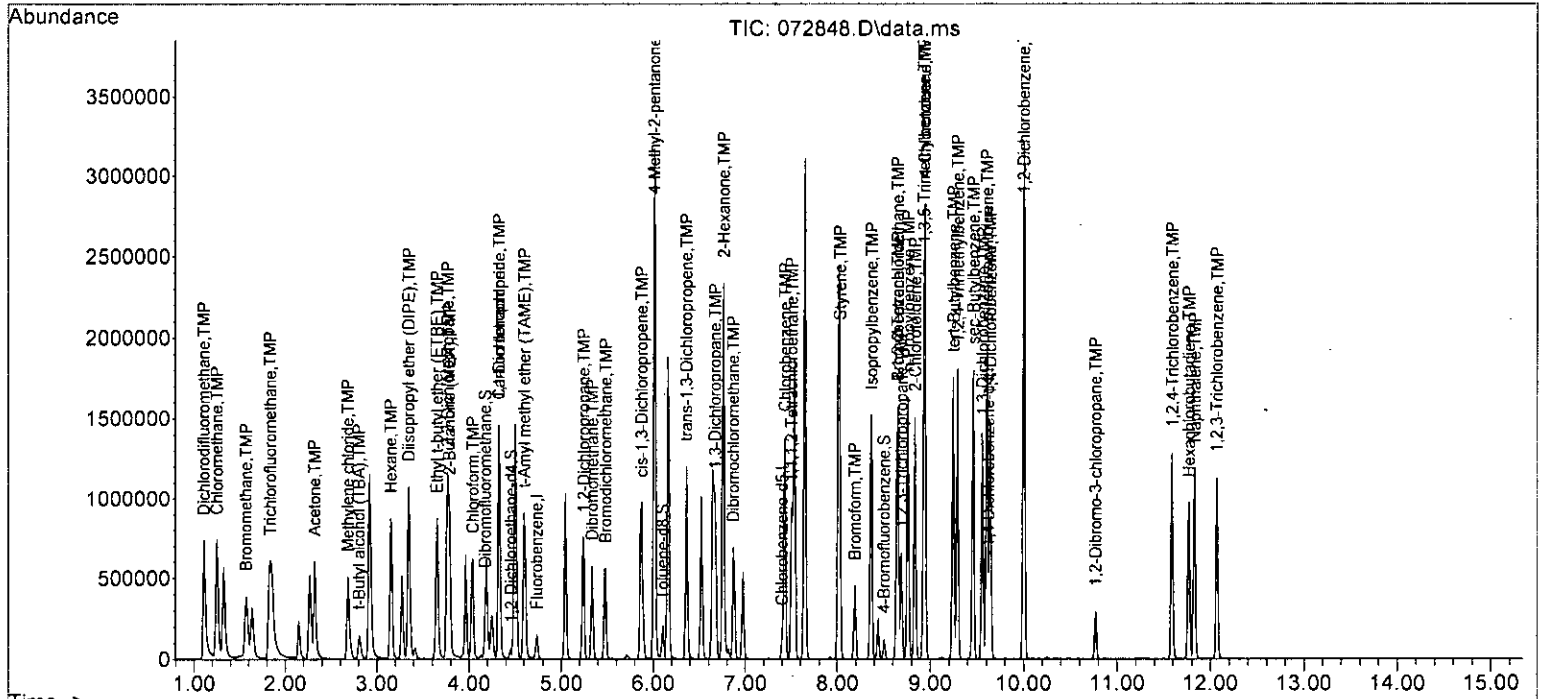
Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	265094	514.684	ppb	94
38) cis-1,3-Dichloropropene	5.87	75	441604	107.696	ppb	94
40] Toluene	6.16	92	713011	100.696	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	412135	108.686	ppb	99
42] 1,1,2-Trichloroethane	6.52	83	227603	97.849	ppb #	70
43) 2-Hexanone	6.76	43	1596247	492.388	ppb	96
44) 1,3-Dichloropropane	6.67	76	399227	97.097	ppb	97
45] Tetrachloroethene	6.64	164	280136	100.000	ppb	97
46) Dibromochloromethane	6.87	129	328656	105.196	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	302155	100.193	ppb	97
48) Chlorobenzene	7.43	112	664758	99.320	ppb	98
49] Ethylbenzene	7.54	91	1075657	101.159	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	240299	101.535	ppb	98
51] m,p-Xylene	7.64	106	840987	202.157	ppb	99
52] o-Xylene	8.01	106	414110	101.013	ppb	99
53) Styrene	8.03	104	656980	100.785	ppb	98
54) Isopropylbenzene	8.37	105	985644	100.276	ppb	99
55) Bromoform	8.19	173	182075	105.975	ppb	98
58) n-Propylbenzene	8.76	91	1176862	96.469	ppb	98
59) Bromobenzene	8.65	156	285694	95.630	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	832581	98.217	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	267612	95.044	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	210815	87.361	ppb	99
63) 2-Chlorotoluene	8.84	91	673896	94.333	ppb	100
64) 4-Chlorotoluene	8.94	91	802309	96.894	ppb	99
65) tert-Butylbenzene	9.25	119	763103	98.478	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	899815	100.372	ppb	99
67) sec-Butylbenzene	9.46	105	1128217	98.940	ppb	97
68) p-Isopropyltoluene	9.61	119	968294	101.730	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	526190	99.388	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	526798	97.329	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	500675	99.531	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	53352	99.773	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	352904	105.993	ppb	98
74) Hexachlorobutadiene	11.77	225	177818	99.215	ppb	98
75) Naphthalene	11.83	128	861095	109.819	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	316816	104.609	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	9.858	1.4	100	0.01
4 TMP	Dichlorodifluoromethane	100.000	103.900	-3.9	100	0.00
5 TMP	Chloromethane	100.000	101.945	-1.9	100	0.00
6 TMP	Vinyl chloride	100.000	97.659	2.3	100	0.01
7 TMP	Bromomethane	100.000	94.793	5.2	100	0.00
8 TMP	Chloroethane	100.000	91.610	8.4	100	0.00
9 TMP	Trichlorofluoromethane	100.000	105.585	-5.6	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP	Acetone	500.000	508.081	-1.6	100	0.00
12 TMP	1,1-Dichloroethene	100.000	98.977	1.0	100	0.01
13 TMP	Hexane	100.000	98.233	1.8	100	0.00
14 TMP	Methylene chloride	100.000	96.812	3.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	500.000	502.546	-0.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	100.000	95.728	4.3	100	0.00
17 TMP	trans-1,2-Dichloroethene	100.000	99.025	1.0	100	0.00
18 TMP	Diisopropyl ether (DIPE)	100.000	98.237	1.8	100	0.00
19 TMP	1,1-Dichloroethane	100.000	94.645	5.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	100.000	100.392	-0.4	100	0.00
21 TMP	2,2-Dichloropropane	100.000	107.060	-7.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	100.000	93.932	6.1	100	0.01
23 TMP	Chloroform	100.000	97.564	2.4	100	0.01
24 TMP	2-Butanone (MEK)	500.000	507.345	-1.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	100.000	100.258	-0.3	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	100.000	99.910	0.1	100	0.00
27 TMP	1,1,1-Trichloroethane	100.000	100.535	-0.5	100	0.00
28 TMP	1,1-Dichloropropene	100.000	100.377	-0.4	100	0.00
29 TMP	Carbon tetrachloride	100.000	102.653	-2.7	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.237	-2.4	100	0.00
31 TMP	Benzene	100.000	99.719	0.3	100	0.01
32 TMP	Trichloroethene	100.000	99.855	0.1	100	0.00
33 TMP	1,2-Dichloropropane	100.000	97.294	2.7	100	0.01
34 TMP	Bromodichloromethane	100.000	103.628	-3.6	100	0.01
35 S	Toluene-d8	10.000	10.387	-3.9	100	0.00
36 TMP	Dibromomethane	100.000	99.798	0.2	100	0.00
37 TMP	4-Methyl-2-pentanone	500.000	514.684	-2.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	100.000	107.696	-7.7	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	100.000	100.696	-0.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	100.000	108.686	-8.7	100	0.00
42 TMP	1,1,2-Trichloroethane	100.000	97.849	2.2	100	0.01
43 TMP	2-Hexanone	500.000	492.388	1.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	97.097	2.9	100	0.00
45 TMP Tetrachloroethene	100.000	100.000	0.0	100	0.00
46 TMP Dibromochloromethane	100.000	105.196	-5.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	100.193	-0.2	100	0.00
48 TMP Chlorobenzene	100.000	99.320	0.7	100	0.00
49 TMP Ethylbenzene	100.000	101.159	-1.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	101.535	-1.5	100	0.00
51 TMP m,p-Xylene	200.000	202.157	-1.1	100	0.00
52 TMP o-Xylene	100.000	101.013	-1.0	100	0.00
53 TMP Styrene	100.000	100.785	-0.8	100	0.00
54 TMP Isopropylbenzene	100.000	100.276	-0.3	100	0.01
55 TMP Bromoform	100.000	105.975	-6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.907	0.9	100	0.00
58 TMP n-Propylbenzene	100.000	96.469	3.5	100	0.00
59 TMP Bromobenzene	100.000	95.630	4.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	98.217	1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	95.044	5.0	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	87.361	12.6	100	0.00
63 TMP 2-Chlorotoluene	100.000	94.333	5.7	100	0.00
64 TMP 4-Chlorotoluene	100.000	96.894	3.1	100	0.00
65 TMP tert-Butylbenzene	100.000	98.478	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	100.372	-0.4	100	0.00
67 TMP sec-Butylbenzene	100.000	98.940	1.1	100	0.00
68 TMP p-Isopropyltoluene	100.000	101.730	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	99.388	0.6	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	97.329	2.7	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	99.531	0.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	99.773	0.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	105.993	-6.0	100	0.00
74 TMP Hexachlorobutadiene	100.000	99.215	0.8	100	0.00
75 TMP Naphthalene	100.000	109.819	-9.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	104.609	-4.6	100	0.00

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.01
3 S	Dibromofluoromethane	0.271	0.267	1.5	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.941	-3.9	100	0.00
5 TMP	Chloromethane	0.949	0.967	-1.9	100	0.00
6 TMP	Vinyl chloride	0.769	0.751	2.3	100	0.01
7 TMP	Bromomethane	0.377	0.357	5.3	100	0.00
8 TMP	Chloroethane	0.323	0.296	8.4	100	0.00
9 TMP	Trichlorofluoromethane	1.197	1.264	-5.6	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP	Acetone	0.040	0.040	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.288	0.268	6.9	100	0.01
13 TMP	Hexane	0.394	0.387	1.8	100	0.00
14 TMP	Methylene chloride	0.244	0.236	3.3	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.033	0.033	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.600	4.3	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.282	0.252	10.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.936	0.920	1.7	100	0.00
19 TMP	1,1-Dichloroethane	0.486	0.460	5.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.265	-0.4	100	0.00
21 TMP	2,2-Dichloropropane	0.269	0.288	-7.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.271	6.2	100	0.01
23 TMP	Chloroform	0.454	0.443	2.4	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.195	-1.0	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.595	-0.2	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.378	18.2	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.408	-0.5	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.345	-0.6	100	0.00
29 TMP	Carbon tetrachloride	0.354	0.364	-2.8	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	1.042	0.967	7.2	100	0.01
32 TMP	Trichloroethene	0.326	0.297	8.9	100	0.00
33 TMP	1,2-Dichloropropane	0.269	0.262	2.6	100	0.01
34 TMP	Bromodichloromethane	0.327	0.339	-3.7	100	0.01
35 S	Toluene-d8	1.111	1.154	-3.9	100	0.00
36 TMP	Dibromomethane	0.174	0.173	0.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.058	-3.6	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.484	-7.8	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	0.991	9.2	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.573	-8.7	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.316	2.2	100	0.01
43 TMP	2-Hexanone	0.451	0.444	1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072848.D  
 Acq On : 29 Jul 2023 01:42 am  
 Operator : MD  
 Sample : 100 ppb 8260 ICAL 69-198s  
 Misc : soil/water  
 ALS Vial : 34 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:42 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.555	3.0	100	0.00
45 TMP Tetrachloroethene	0.446	0.390	12.6	100	0.00
46 TMP Dibromochloromethane	0.434	0.457	-5.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.420	10.4	100	0.00
48 TMP Chlorobenzene	0.931	0.924	0.8	100	0.00
49 TMP Ethylbenzene	1.609	1.496	7.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.334	-1.5	100	0.00
51 TMP m,p-Xylene	0.630	0.585	7.1	100	0.00
52 TMP o-Xylene	0.606	0.576	5.0	100	0.00
53 TMP Styrene	0.906	0.914	-0.9	100	0.00
54 TMP Isopropylbenzene	1.367	1.371	-0.3	100	0.01
55 TMP Bromoform	0.239	0.253	-5.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.892	1.0	100	0.00
58 TMP n-Propylbenzene	3.326	3.208	3.5	100	0.00
59 TMP Bromobenzene	0.814	0.779	4.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.270	1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.730	4.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.575	12.6	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.837	5.6	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.187	3.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.080	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.453	-0.4	100	0.00
67 TMP sec-Butylbenzene	3.109	3.076	1.1	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.640	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.434	0.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.436	2.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.365	0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.145	0.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.962	-5.9	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.485	0.8	100	0.00
75 TMP Naphthalene	2.138	2.347	-9.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.864	-4.6	100	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	93669	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	74153	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37105	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	26043	10.246	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.50%	
30) 1,2-Dichloroethane-d4	4.45	102	5437	9.660	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	96.60%	
35) Toluene-d8	6.10	98	106647	10.248	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.50%	
57) 4-Bromofluorobenzene	8.50	95	32924	9.852	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.50%	
Target Compounds							
							Qvalue
2) Ethanol	2.33	45	4471	No Calib			
4) Dichlorodifluoromethane	1.12	85	1297799	152.905	ppb	99	
5) Chloromethane	1.26	50	1354900	152.416	ppb	98	
6] Vinyl chloride	1.34	62	1044475	145.060	ppb	93	
7) Bromomethane	1.58	94	503364	142.645	ppb	95	
8] Chloroethane	1.65	64	419615	138.869	ppb	99	
9) Trichlorofluoromethane	1.85	101	1744208	155.520	ppb	98	
10) 2-Propanol	2.33	45	4471	No Calib			
11) Acetone	2.33	58	278202	750.275	ppb	98	
12] 1,1-Dichloroethene	2.27	96	376092	148.564	ppb	91	
13) Hexane	3.16	57	544481	147.616	ppb	98	
14) Methylene chloride	2.69	84	331527	145.301	ppb	95	
15) t-Butyl alcohol (TBA)	2.82	59	233339	766.394	ppb	96	
16] Methyl t-butyl ether (...)	2.93	73	818978	139.381	ppb	96	
17] trans-1,2-Dichloroethene	2.92	96	353285	148.256	ppb	86	
18) Diisopropyl ether (DIPE)	3.35	45	1298990	148.143	ppb	97	
19] 1,1-Dichloroethane	3.27	63	640688	140.757	ppb	95	
20) Ethyl t-butyl ether (E...)	3.66	87	371406	150.350	ppb	92	
21) 2,2-Dichloropropane	3.77	77	387257	153.865	ppb	95	
22] cis-1,2-Dichloroethene	3.77	96	380491	140.669	ppb	96	
23) Chloroform	4.04	83	626415	147.261	ppb	95	
24) 2-Butanone (MEK)	3.79	43	1366583	757.524	ppb	98	
25) t-Amyl methyl ether (T...)	4.61	73	823572	148.066	ppb	99	
26] 1,2-Dichloroethane (EDC)	4.52	62	525235	148.299	ppb	99	
27] 1,1,1-Trichloroethane	4.19	97	567216	149.249	ppb	96	
28) 1,1-Dichloropropene	4.33	75	483006	150.206	ppb	95	
29) Carbon tetrachloride	4.33	117	522464	157.353	ppb	97	
31] Benzene	4.50	78	1350037	148.576	ppb	97	
32] Trichloroethene	5.05	95	408322	146.534	ppb	# 73	
33) 1,2-Dichloropropane	5.24	63	366854	145.405	ppb	100	
34) Bromodichloromethane	5.48	83	487047	158.988	ppb	98	
36) Dibromomethane	5.34	93	246336	151.547	ppb	92	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

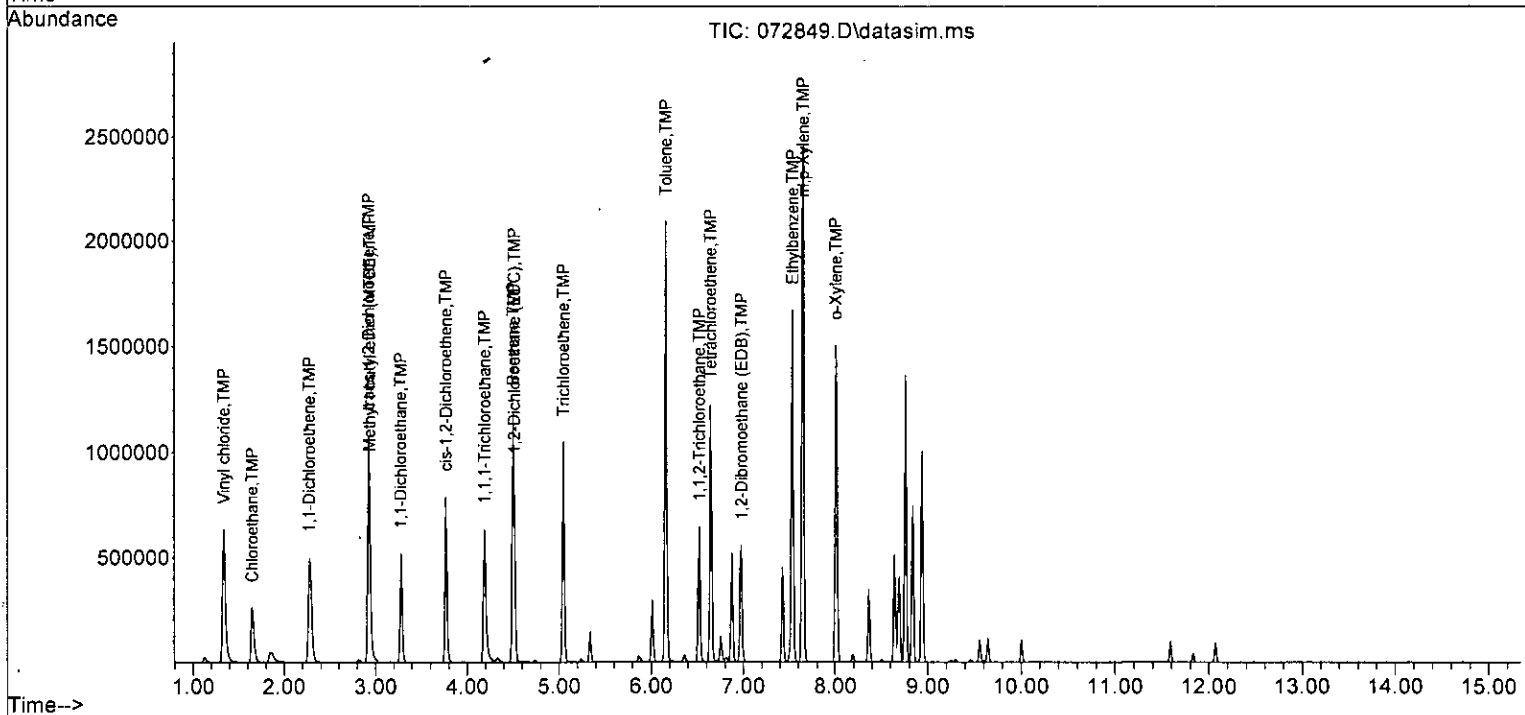
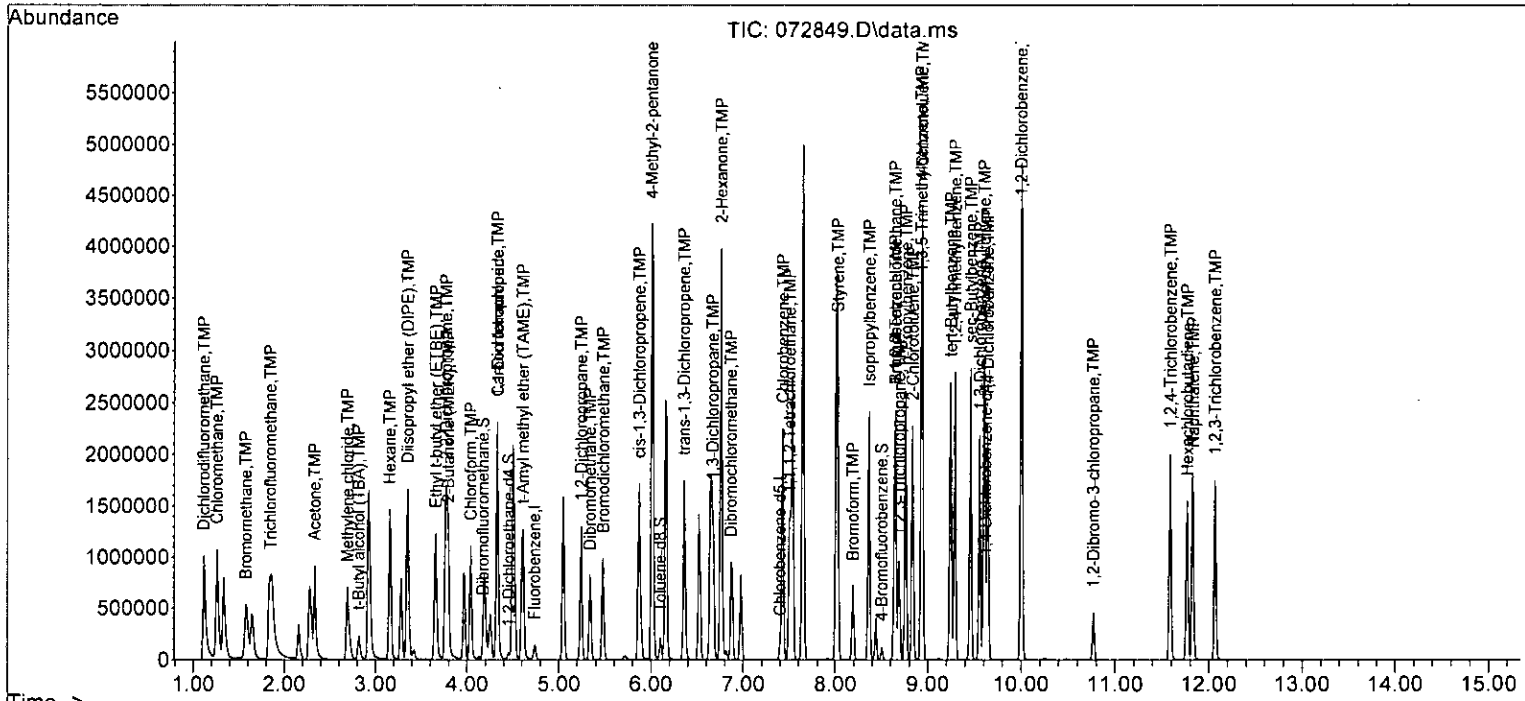
Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	399775	756.000	ppb	96
38) cis-1,3-Dichloropropene	5.87	75	694666	165.010	ppb	93
40] Toluene	6.16	92	1085210	148.641	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	633800	162.095	ppb	99
42] 1,1,2-Trichloroethane	6.52	83	346392	144.422	ppb #	77
43) 2-Hexanone	6.76	43	2444230	731.197	ppb	96
44) 1,3-Dichloropropane	6.67	76	607453	143.279	ppb	97
45] Tetrachloroethene	6.64	164	427433	147.984	ppb	95
46) Dibromochloromethane	6.87	129	509071	158.023	ppb	96
47] 1,2-Dibromoethane (EDB)	6.98	107	463187	148.958	ppb	92
48) Chlorobenzene	7.43	112	1007193	145.939	ppb	99
49] Ethylbenzene	7.54	91	1630639	148.728	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.50	131	370158	151.683	ppb	100
51] m,p-Xylene	7.65	106	1270286	296.144	ppb #	78
52] o-Xylene	8.01	106	627561	148.463	ppb	99
53) Styrene	8.03	104	1003810	149.341	ppb	98
54) Isopropylbenzene	8.37	105	1491760	147.183	ppb	99
55) Bromoform	8.19	173	288045	162.591	ppb	99
58) n-Propylbenzene	8.76	91	1774109	143.772	ppb	98
59) Bromobenzene	8.65	156	443029	146.608	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	1259153	146.849	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	406314	142.664	ppb	100
62) 1,2,3-Trichloropropane	8.69	75	315803	129.379	ppb	99
63) 2-Chlorotoluene	8.84	91	1024567	141.789	ppb	99
64) 4-Chlorotoluene	8.94	91	1217119	145.318	ppb	97
65) tert-Butylbenzene	9.25	119	1160690	148.082	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	1360618	150.047	ppb	97
67) sec-Butylbenzene	9.46	105	1713418	148.551	ppb	97
68) p-Isopropyltoluene	9.61	119	1468262	152.503	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	807390	150.767	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	807813	147.551	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	758756	149.120	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	84716	156.625	ppb	87
73) 1,2,4-Trichlorobenzene	11.59	180	546556	162.289	ppb	97
74) Hexachlorobutadiene	11.77	225	278282	153.504	ppb	99
75) Naphthalene	11.83	128	1332664	168.028	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	500891	163.508	ppb	99

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
Data File : 072849.D  
Acq On : 29 Jul 2023 02:05 am  
Operator : MD  
Sample : 150 ppb 8260 ICAL 69-198t  
Misc : soil/water  
ALS Vial : 35 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
Quant Method : Y:\Methods\Inst13\072823vms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Sat Jul 29 09:22:43 2023  
Response via : Initial Calibration  
DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.02
3 S	Dibromofluoromethane	10.000	10.246	-2.5	100	0.01
4 TMP	Dichlorodifluoromethane	150.000	152.905	-1.9	100	0.01
5 TMP	Chloromethane	150.000	152.416	-1.6	100	0.01
6 TMP	Vinyl chloride	150.000	145.060	3.3	100	0.02
7 TMP	Bromomethane	150.000	142.645	4.9	100	0.01
8 TMP	Chloroethane	150.000	138.869	7.4	100	0.01
9 TMP	Trichlorofluoromethane	150.000	155.520	-3.7	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	750.000	750.275	-0.0	100	0.01
12 TMP	1,1-Dichloroethene	150.000	148.564	1.0	100	0.01
13 TMP	Hexane	150.000	147.616	1.6	100	0.01
14 TMP	Methylene chloride	150.000	145.301	3.1	100	0.01
15 TMP	t-Butyl alcohol (TBA)	750.000	766.394	-2.2	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	150.000	139.381	7.1	100	0.01
17 TMP	trans-1,2-Dichloroethene	150.000	148.256	1.2	100	0.01
18 TMP	Diisopropyl ether (DIPE)	150.000	148.143	1.2	100	0.01
19 TMP	1,1-Dichloroethane	150.000	140.757	6.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	150.000	150.350	-0.2	100	0.01
21 TMP	2,2-Dichloropropane	150.000	153.865	-2.6	100	0.01
22 TMP	cis-1,2-Dichloroethene	150.000	140.669	6.2	100	0.01
23 TMP	Chloroform	150.000	147.261	1.8	100	0.01
24 TMP	2-Butanone (MEK)	750.000	757.524	-1.0	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	150.000	148.066	1.3	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	150.000	148.299	1.1	100	0.00
27 TMP	1,1,1-Trichloroethane	150.000	149.249	0.5	100	0.00
28 TMP	1,1-Dichloropropene	150.000	150.206	-0.1	100	0.01
29 TMP	Carbon tetrachloride	150.000	157.353	-4.9	100	0.01
30 S	1,2-Dichloroethane-d4	10.000	9.660	3.4	100	0.00
31 TMP	Benzene	150.000	148.576	0.9	100	0.01
32 TMP	Trichloroethene	150.000	146.534	2.3	100	0.01
33 TMP	1,2-Dichloropropane	150.000	145.405	3.1	100	0.01
34 TMP	Bromodichloromethane	150.000	158.988	-6.0	100	0.01
35 S	Toluene-d8	10.000	10.248	-2.5	100	0.00
36 TMP	Dibromomethane	150.000	151.547	-1.0	100	0.00
37 TMP	4-Methyl-2-pentanone	750.000	756.000	-0.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	150.000	165.010	-10.0	100	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	150.000	148.641	0.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	150.000	162.095	-8.1	100	0.00
42 TMP	1,1,2-Trichloroethane	150.000	144.422	3.7	100	0.01
43 TMP	2-Hexanone	750.000	731.197	2.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	143.279	4.5	100	0.00
45 TMP Tetrachloroethene	150.000	147.984	1.3	100	0.00
46 TMP Dibromochloromethane	150.000	158.023	-5.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	150.000	148.958	0.7	100	0.01
48 TMP Chlorobenzene	150.000	145.939	2.7	100	0.00
49 TMP Ethylbenzene	150.000	148.728	0.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	151.683	-1.1	100	0.00
51 TMP m,p-Xylene	300.000	296.144	1.3	100	0.01
52 TMP o-Xylene	150.000	148.463	1.0	100	0.00
53 TMP Styrene	150.000	149.341	0.4	100	0.00
54 TMP Isopropylbenzene	150.000	147.183	1.9	100	0.01
55 TMP Bromoform	150.000	162.591	-8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.852	1.5	100	0.00
58 TMP n-Propylbenzene	150.000	143.772	4.2	100	0.00
59 TMP Bromobenzene	150.000	146.608	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	146.849	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	142.664	4.9	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	129.379	13.7	100	0.00
63 TMP 2-Chlorotoluene	150.000	141.789	5.5	100	0.00
64 TMP 4-Chlorotoluene	150.000	145.318	3.1	100	0.00
65 TMP tert-Butylbenzene	150.000	148.082	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	150.047	-0.0	100	0.00
67 TMP sec-Butylbenzene	150.000	148.551	1.0	100	0.00
68 TMP p-Isopropyltoluene	150.000	152.503	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	150.767	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	147.551	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	149.120	0.6	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	156.625	-4.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	162.289	-8.2	100	0.00
74 TMP Hexachlorobutadiene	150.000	153.504	-2.3	100	0.00
75 TMP Naphthalene	150.000	168.028	-12.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	163.508	-9.0	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.271	0.278	-2.6	100	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.924	-2.0	100	0.01
5 TMP	Chloromethane	0.949	0.964	-1.6	100	0.01
6 TMP	Vinyl chloride	0.769	0.743	3.4	100	0.02
7 TMP	Bromomethane	0.377	0.358	5.0	100	0.01
8 TMP	Chloroethane	0.323	0.299	7.4	100	0.01
9 TMP	Trichlorofluoromethane	1.197	1.241	-3.7	100	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.040	0.040	0.0	100	0.01
12 TMP	1,1-Dichloroethene	0.288	0.268	6.9	100	0.01
13 TMP	Hexane	0.394	0.388	1.5	100	0.01
14 TMP	Methylene chloride	0.244	0.236	3.3	100	0.01
15 TMP	t-Butyl alcohol (TBA)	0.033	0.033	0.0	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.583	7.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.251	11.0	100	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.925	1.2	100	0.01
19 TMP	1,1-Dichloroethane	0.486	0.456	6.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.264	0.0	100	0.01
21 TMP	2,2-Dichloropropane	0.269	0.276	-2.6	100	0.01
22 TMP	cis-1,2-Dichloroethene	0.289	0.271	6.2	100	0.01
23 TMP	Chloroform	0.454	0.446	1.8	100	0.01
24 TMP	2-Butanone (MEK)	0.193	0.195	-1.0	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.586	1.3	100	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.374	19.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.404	0.5	100	0.00
28 TMP	1,1-Dichloropropene	0.343	0.344	-0.3	100	0.01
29 TMP	Carbon tetrachloride	0.354	0.372	-5.1	100	0.01
30 S	1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP	Benzene	1.042	0.961	7.8	100	0.01
32 TMP	Trichloroethene	0.326	0.291	10.7	100	0.01
33 TMP	1,2-Dichloropropane	0.269	0.261	3.0	100	0.01
34 TMP	Bromodichloromethane	0.327	0.347	-6.1	100	0.01
35 5	Toluene-d8	1.111	1.139	-2.5	100	0.00
36 TMP	Dibromomethane	0.174	0.175	-0.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.057	-1.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.494	-10.0	100	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	1.092	0.976	10.6	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.570	-8.2	100	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.311	3.7	100	0.01
43 TMP	2-Hexanone	0.451	0.439	2.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072849.D  
 Acq On : 29 Jul 2023 02:05 am  
 Operator : MD  
 Sample : 150 ppb 8260 ICAL 69-198t  
 Misc : soil/water  
 ALS Vial : 35 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:45 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.546	4.5	100	0.00
45 TMP Tetrachloroethene	0.446	0.384	13.9	100	0.00
46 TMP Dibromochloromethane	0.434	0.458	-5.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.416	11.3	100	0.01
48 TMP Chlorobenzene	0.931	0.906	2.7	100	0.00
49 TMP Ethylbenzene	1.609	1.466	8.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.333	-1.2	100	0.00
51 TMP m,p-Xylene	0.630	0.571	9.4	100	0.01
52 TMP o-Xylene	0.606	0.564	6.9	100	0.00
53 TMP Styrene	0.906	0.902	0.4	100	0.00
54 TMP Isopropylbenzene	1.367	1.341	1.9	100	0.01
55 TMP Bromoform	0.239	0.259	-8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.887	1.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.188	4.1	100	0.00
59 TMP Bromobenzene	0.814	0.796	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.262	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.730	4.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.567	13.8	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.841	5.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.187	3.1	100	0.00
65 TMP tert-Butylbenzene	2.112	2.085	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.445	-0.0	100	0.00
67 TMP sec-Butylbenzene	3.109	3.079	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.638	-1.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.451	-0.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.451	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.363	0.6	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.152	-4.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.982	-8.1	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.500	-2.2	100	0.00
75 TMP Naphthalene	2.138	2.394	-12.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.900	-9.0	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	93512	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	75125	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37469	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	25802	10.169	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.70%	
30) 1,2-Dichloroethane-d4	4.45	102	5684	10.115	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	101.20%	
35) Toluene-d8	6.10	98	107685	10.365	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	103.60%	
57) 4-Bromofluorobenzene	8.50	95	33237	9.849	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.50%	
Target Compounds							
							Qvalue
2) Ethanol	2.33	45	6738	No Calib			
4) Dichlorodifluoromethane	1.12	85	1768449	208.707	ppb	100	
5) Chloromethane	1.26	50	1841805	207.537	ppb	99	
6] Vinyl chloride	1.33	62	1412542	196.508	ppb	100	
7) Bromomethane	1.58	94	717543	203.682	ppb	94	
8] Chloroethane	1.65	64	590194	195.650	ppb	98	
9) Trichlorofluoromethane	1.85	101	2389790	213.441	ppb	99	
10) 2-Propanol	2.33	45	6738	No Calib			
11) Acetone	2.33	58	387026	1045.511	ppb	100	
12] 1,1-Dichloroethene	2.27	96	509995	201.801	ppb	95	
13) Hexane	3.16	57	795461	216.023	ppb	97	
14) Methylene chloride	2.69	84	450936	197.967	ppb	97	
15) t-Butyl alcohol (TBA)	2.82	59	325181	1069.839	ppb	96	
16] Methyl t-butyl ether (...)	2.93	73	1104483	188.287	ppb	95	
17] trans-1,2-Dichloroethene	2.92	96	476464	200.290	ppb	83	
18) Diisopropyl ether (DIPE)	3.35	45	1758837	200.922	ppb	96	
19] 1,1-Dichloroethane	3.27	63	858123	188.843	ppb	96	
20) Ethyl t-butyl ether (E...)	3.66	87	504533	204.584	ppb	89	
21) 2,2-Dichloropropane	3.76	77	502980	200.180	ppb	94	
22] cis-1,2-Dichloroethene	3.77	96	508811	188.426	ppb	98	
23) Chloroform	4.04	83	845659	199.136	ppb	96	
24) 2-Butanone (MEK)	3.78	43	1886824	1047.661	ppb	99	
25) t-Amyl methyl ether (T...)	4.61	73	1121350	201.940	ppb	99	
26] 1,2-Dichloroethane (EDC)	4.52	62	701866	198.514	ppb	99	
27] 1,1,1-Trichloroethane	4.19	97	765438	201.745	ppb	97	
28) 1,1-Dichloropropene	4.33	75	656448	204.486	ppb	95	
29) Carbon tetrachloride	4.33	117	713361	215.208	ppb	98	
31] Benzene	4.50	78	1807901	199.304	ppb	97	
32] Trichloroethene	5.05	95	562243	202.115	ppb	# 71	
33) 1,2-Dichloropropane	5.24	63	500177	198.582	ppb	100	
34) Bromodichloromethane	5.48	83	660622	216.010	ppb	98	
36) Dibromomethane	5.34	93	330400	203.605	ppb	93	



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

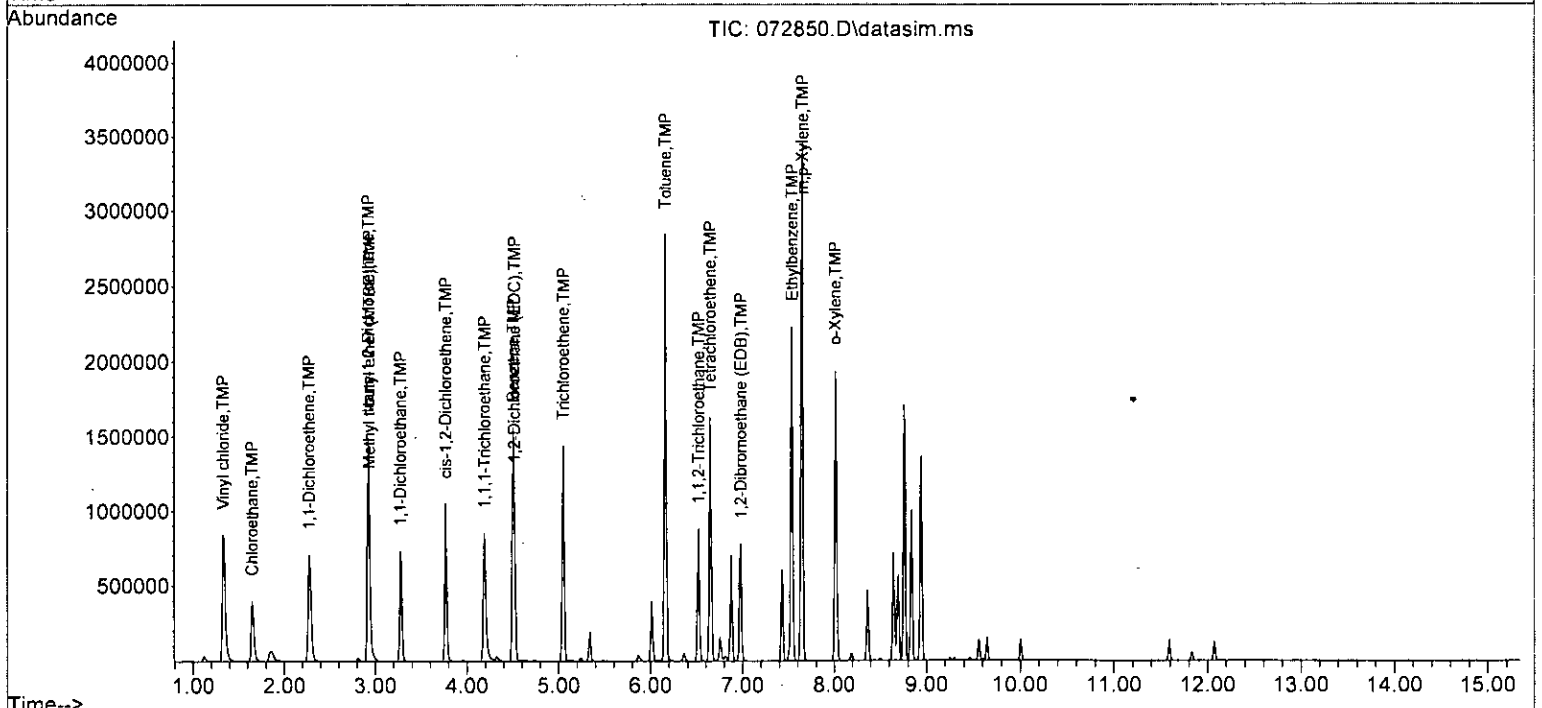
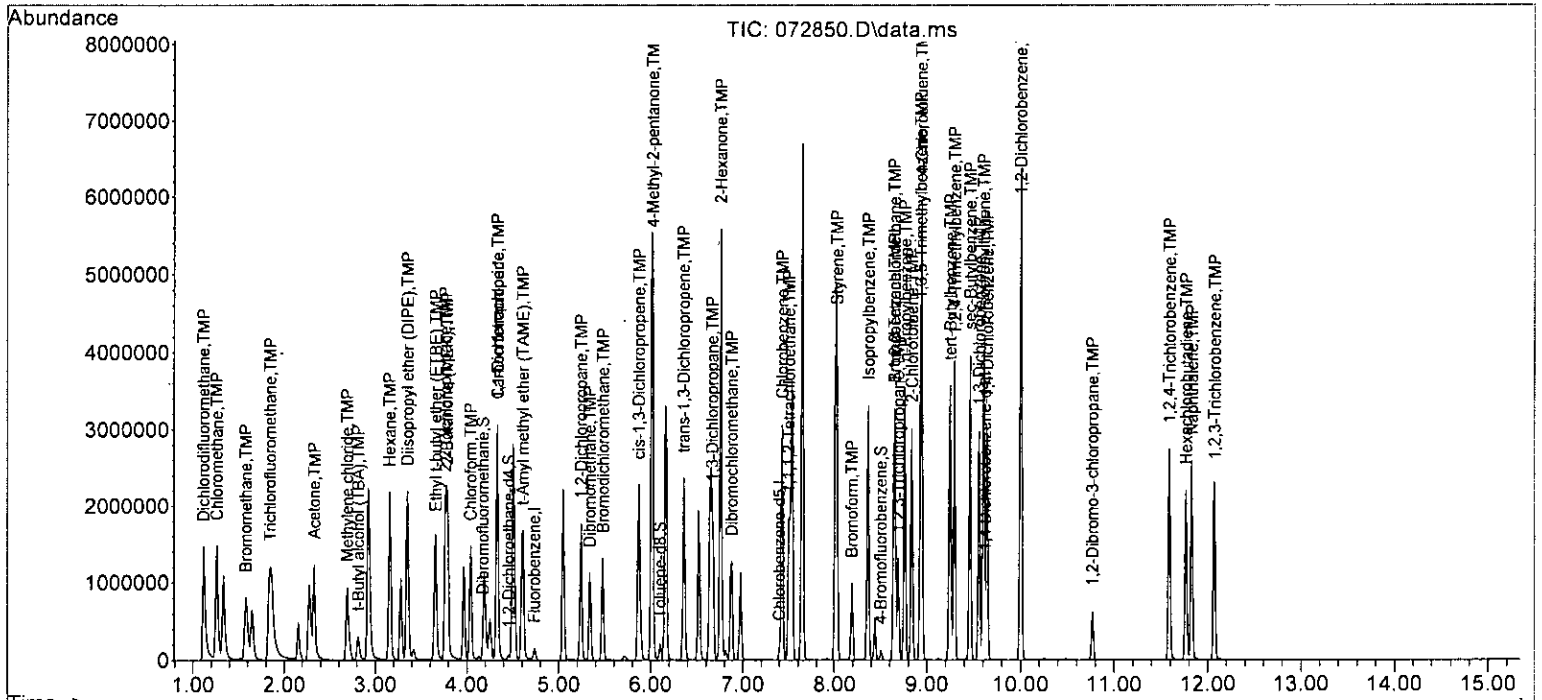
Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	544493	1031.399	ppb	88
38) cis-1,3-Dichloropropene	5.87	75	946841	225.289	ppb	93
40] Toluene	6.16	92	1456723	196.950	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	868376	219.214	ppb	98
42] 1,1,2-Trichloroethane	6.52	83	463442	190.723	ppb #	75
43) 2-Hexanone	6.76	43	3321031	980.640	ppb	97
44) 1,3-Dichloropropane	6.67	76	812401	189.141	ppb	96
45] Tetrachloroethene	6.64	164	580810	198.491	ppb	95
46) Dibromochloromethane	6.88	129	696727	213.476	ppb	93
47] 1,2-Dibromoethane (EDB)	6.98	107	623838	198.029	ppb	93
48) Chlorobenzene	7.43	112	1359784	194.479	ppb	99
49] Ethylbenzene	7.54	91	2160879	194.544	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.50	131	493761	199.715	ppb	99
51] m,p-Xylene	7.65	106	1696167	390.323	ppb #	80
52] o-Xylene	8.01	106	840897	196.361	ppb	100
53) Styrene	8.03	104	1339836	196.754	ppb	98
54) Isopropylbenzene	8.37	105	2019372	196.662	ppb	98
55) Bromoform	8.19	173	396797	221.080	ppb	99
58) n-Propylbenzene	8.76	91	2378719	190.897	ppb	98
59) Bromobenzene	8.65	156	596172	195.369	ppb	99
60) 1,3,5-Trimethylbenzene	8.93	105	1682360	194.300	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	536607	186.581	ppb	100
62) 1,2,3-Trichloropropane	8.69	75	421130	170.853	ppb	99
63) 2-Chlorotoluene	8.84	91	1365486	187.133	ppb	100
64) 4-Chlorotoluene	8.94	91	1624515	192.075	ppb	98
65) tert-Butylbenzene	9.25	119	1553511	196.273	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	1836500	200.559	ppb	99
67) sec-Butylbenzene	9.46	105	2325845	199.689	ppb	97
68) p-Isopropyltoluene	9.61	119	1994900	205.189	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	1092758	202.072	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	1084912	196.239	ppb	96
71) 1,2-Dichlorobenzene	10.00	146	1027022	199.882	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	116583	213.448	ppb	87
73) 1,2,4-Trichlorobenzene	11.59	180	769016	226.125	ppb	98
74) Hexachlorobutadiene	11.77	225	392024	214.145	ppb	100
75) Naphthalene	11.83	128	1826726	228.083	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	691970	223.688	ppb	98

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

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.169	-1.7	100	0.01
4 TMP Dichlorodifluoromethane	200.000	208.707	-4.4	100	0.00
5 TMP Chloromethane	200.000	207.537	-3.8	100	0.00
6 TMP Vinyl chloride	200.000	196.508	1.7	100	0.01
7 TMP Bromomethane	200.000	203.682	-1.8	100	0.01
8 TMP Chloroethane	200.000	195.650	2.2	100	0.01
9 TMP Trichlorofluoromethane	200.000	213.441	-6.7	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP Acetone	1000.000	1045.511	-4.6	100	0.00
12 TMP 1,1-Dichloroethene	200.000	201.801	-0.9	100	0.01
13 TMP Hexane	200.000	216.023	-8.0	100	0.01
14 TMP Methylene chloride	200.000	197.967	1.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	1069.839	-7.0	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	200.000	188.287	5.9	100	0.01
17 TMP trans-1,2-Dichloroethene	200.000	200.290	-0.1	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	200.922	-0.5	100	0.01
19 TMP 1,1-Dichloroethane	200.000	188.843	5.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	204.584	-2.3	100	0.01
21 TMP 2,2-Dichloropropane	200.000	200.180	-0.1	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	188.426	5.8	100	0.01
23 TMP Chloroform	200.000	199.136	0.4	100	0.01
24 TMP 2-Butanone (MEK)	1000.000	1047.661	-4.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	201.940	-1.0	100	0.01
26 TMP 1,2-Dichloroethane (EDC)	200.000	198.514	0.7	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	201.745	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	200.000	204.486	-2.2	100	0.01
29 TMP Carbon tetrachloride	200.000	215.208	-7.6	100	0.01
30 S 1,2-Dichloroethane-d4	10.000	10.115	-1.2	100	0.00
31 TMP Benzene	200.000	199.304	0.3	100	0.01
32 TMP Trichloroethene	200.000	202.115	-1.1	100	0.01
33 TMP 1,2-Dichloropropane	200.000	198.582	0.7	100	0.01
34 TMP Bromodichloromethane	200.000	216.010	-8.0	100	0.01
35 S Toluene-d8	10.000	10.365	-3.7	100	0.00
36 TMP Dibromomethane	200.000	203.605	-1.8	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	1031.399	-3.1	100	0.01
38 TMP cis-1,3-Dichloropropene	200.000	225.289	-12.6	100	0.01
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	196.950	1.5	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	219.214	-9.6	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	190.723	4.6	100	0.01
43 TMP 2-Hexanone	1000.000	980.640	1.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	189.141	5.4	100	0.00
45 TMP Tetrachloroethene	200.000	198.491	0.8	100	0.00
46 TMP Dibromochloromethane	200.000	213.476	-6.7	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	198.029	1.0	100	0.01
48 TMP Chlorobenzene	200.000	194.479	2.8	100	0.00
49 TMP Ethylbenzene	200.000	194.544	2.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	199.715	0.1	100	0.00
51 TMP m,p-Xylene	400.000	390.323	2.4	100	0.01
52 TMP o-Xylene	200.000	196.361	1.8	100	0.00
53 TMP Styrene	200.000	196.754	1.6	100	0.00
54 TMP Isopropylbenzene	200.000	196.662	1.7	100	0.01
55 TMP *Bromoform	200.000	221.080	-10.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.849	1.5	100	0.00
58 TMP n-Propylbenzene	200.000	190.897	4.6	100	0.00
59 TMP Bromobenzene	200.000	195.369	2.3	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	194.300	2.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	186.581	6.7	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	170.853	14.6	100	0.00
63 TMP 2-Chlorotoluene	200.000	187.133	6.4	100	0.00
64 TMP 4-Chlorotoluene	200.000	192.075	4.0	100	0.00
65 TMP tert-Butylbenzene	200.000	196.273	1.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	200.559	-0.3	100	0.00
67 TMP sec-Butylbenzene	200.000	199.689	0.2	100	0.00
68 TMP p-Isopropyltoluene	200.000	205.189	-2.6	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	202.072	-1.0	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	196.239	1.9	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	199.882	0.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	213.448	-6.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	226.125	-13.1	100	0.00
74 TMP Hexachlorobutadiene	200.000	214.145	-7.1	100	0.00
75 TMP Naphthalene	200.000	228.083	-14.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	223.688	-11.8	100	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.02
3 S Dibromofluoromethane	0.271	0.276	-1.8	100	0.01
4 TMP Dichlorodifluoromethane	0.906	0.946	-4.4	100	0.00
5 TMP Chloromethane	0.949	0.985	-3.8	100	0.00
6 TMP Vinyl chloride	0.769	0.755	1.8	100	0.01
7 TMP Bromomethane	0.377	0.384	-1.9	100	0.01
8 TMP Chloroethane	0.323	0.316	2.2	100	0.01
9 TMP Trichlorofluoromethane	1.197	1.278	-6.8	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.040	0.041	-2.5	100	0.00
12 TMP 1,1-Dichloroethene	0.288	0.273	5.2	100	0.01
13 TMP Hexane	0.394	0.425	-7.9	100	0.01
14 TMP Methylene chloride	0.244	0.241	1.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.035	-6.1	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.591	5.7	100	0.01
17 TMP trans-1,2-Dichloroethene	0.282	0.255	9.6	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	0.940	-0.4	100	0.01
19 TMP 1,1-Dichloroethane	0.486	0.459	5.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.270	-2.3	100	0.01
21 TMP 2,2-Dichloropropane	0.269	0.269	0.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.289	0.272	5.9	100	0.01
23 TMP Chloroform	0.454	0.452	0.4	100	0.01
24 TMP 2-Butanone (MEK)	0.193	0.202	-4.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.594	0.600	-1.0	100	0.01
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.375	18.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.409	-0.7	100	0.00
28 TMP 1,1-Dichloropropene	0.343	0.351	-2.3	100	0.01
29 TMP Carbon tetrachloride	0.354	0.381	-7.6	100	0.01
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	1.042	0.967	7.2	100	0.01
32 TMP Trichloroethene	0.326	0.301	7.7	100	0.01
33 TMP 1,2-Dichloropropane	0.269	0.267	0.7	100	0.01
34 TMP Bromodichloromethane	0.327	0.353	-8.0	100	0.01
35 S Toluene-d8	1.111	1.152	-3.7	100	0.00
36 TMP Dibromomethane	0.174	0.177	-1.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.058	-3.6	100	0.01
38 TMP cis-1,3-Dichloropropene	0.449	0.506	-12.7	100	0.01
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	1.092	0.970	11.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.578	-9.7	100	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.308	4.6	100	0.01
43 TMP 2-Hexanone	0.451	0.442	2.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072850.D  
 Acq On : 29 Jul 2023 02:28 am  
 Operator : MD  
 Sample : 200 ppb 8260 ICAL 69-198u  
 Misc : soil/water  
 ALS Vial : 36 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.541	5.4	100	0.00
45 TMP Tetrachloroethene	0.446	0.387	13.2	100	0.00
46 TMP Dibromochloromethane	0.434	0.464	-6.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.415	11.5	100	0.01
48 TMP Chlorobenzene	0.931	0.905	2.8	100	0.00
49 TMP Ethylbenzene	1.609	1.438	10.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.329	0.0	100	0.00
51 TMP m,p-Xylene	0.630	0.564	10.5	100	0.01
52 TMP o-Xylene	0.606	0.560	7.6	100	0.00
53 TMP Styrene	0.906	0.892	1.5	100	0.00
54 TMP Isopropylbenzene	1.367	1.344	1.7	100	0.01
55 TMP Bromoform	0.239	0.264	-10.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.901	0.887	1.6	100	0.00
58 TMP n-Propylbenzene	3.326	3.174	4.6	100	0.00
59 TMP Bromobenzene	0.814	0.796	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.245	2.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.716	6.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.562	14.6	100	0.00
63 TMP 2-Chlorotoluene	1.947	1.822	6.4	100	0.00
64 TMP 4-Chlorotoluene	2.257	2.168	3.9	100	0.00
65 TMP tert-Butylbenzene	2.112	2.073	1.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.451	-0.3	100	0.00
67 TMP sec-Butylbenzene	3.109	3.104	0.2	100	0.00
68 TMP p-Isopropyltoluene	2.595	2.662	-2.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.458	-1.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.448	1.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.370	0.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.156	-6.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	1.026	-13.0	100	0.00
74 TMP Hexachlorobutadiene	0.489	0.523	-7.0	100	0.00
75 TMP Naphthalene	2.138	2.438	-14.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.923	-11.7	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	101222	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	75344	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	38427	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	28065	10.218	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.20%	
30) 1,2-Dichloroethane-d4	4.45	102	5797	9.531	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	95.30%	
35) Toluene-d8	6.10	98	114368	10.170	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	101.70%	
57) 4-Bromofluorobenzene	8.50	95	33672	9.729	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	97.30%	
Target Compounds							
2) Ethanol	2.32	45	404	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	86891	9.474	ppb	100	
5) Chloromethane	1.25	50	92549	9.634	ppb	98	
6] Vinyl chloride	1.33	62	75465	9.699	ppb	92	
7) Bromomethane	1.57	94	39796	10.436	ppb	94	
8] Chloroethane	1.64	64	29659	9.083	ppb	99	
9) Trichlorofluoromethane	1.84	101	118885	9.809	ppb	98	
10) 2-Propanol	2.32	45	404	No Calib	#		
11) Acetone	2.32	58	17969	44.844	ppb	92	
12] 1,1-Dichloroethene	2.26	96	31508	11.508	ppb	92	
13) Hexane	3.15	57	40935	10.270	ppb	96	
14) Methylene chloride	2.68	84	24401	9.896	ppb	93	
15) t-Butyl alcohol (TBA)	2.81	59	17682	53.742	ppb	96	
16] Methyl t-butyl ether (...)	2.92	73	65170	10.264	ppb	99	
17] trans-1,2-Dichloroethene	2.91	96	27484	10.658	ppb	91	
18) Diisopropyl ether (DIPE)	3.34	45	99630	10.514	ppb	98	
19] 1,1-Dichloroethane	3.27	63	49141	9.990	ppb	98	
20) Ethyl t-butyl ether (E...)	3.65	87	28485	10.671	ppb	90	
21) 2,2-Dichloropropane	3.76	77	26669	9.805	ppb	92	
22] cis-1,2-Dichloroethene	3.77	96	28767	9.842	ppb	94	
23) Chloroform	4.03	83	45205	9.834	ppb	100	
24) 2-Butanone (MEK)	3.78	43	102892	52.779	ppb	100	
25) t-Amyl methyl ether (T...)	4.60	73	62746	10.439	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.52	62	40452	10.539	ppb	98	
27] 1,1,1-Trichloroethane	4.19	97	40457	9.851	ppb	98	
28) 1,1-Dichloropropene	4.32	75	34061	9.802	ppb	95	
29) Carbon tetrachloride	4.32	117	36295	10.116	ppb	97	
31] Benzene	4.49	78	102323	10.410	ppb	89	
32] Trichloroethene	5.04	95	32036	10.626	ppb	98	
33) 1,2-Dichloropropane	5.23	63	27356	10.034	ppb	99	
34) Bromodichloromethane	5.47	83	33541	10.132	ppb	94	
36) Dibromomethane	5.34	93	17331	9.867	ppb	97	

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

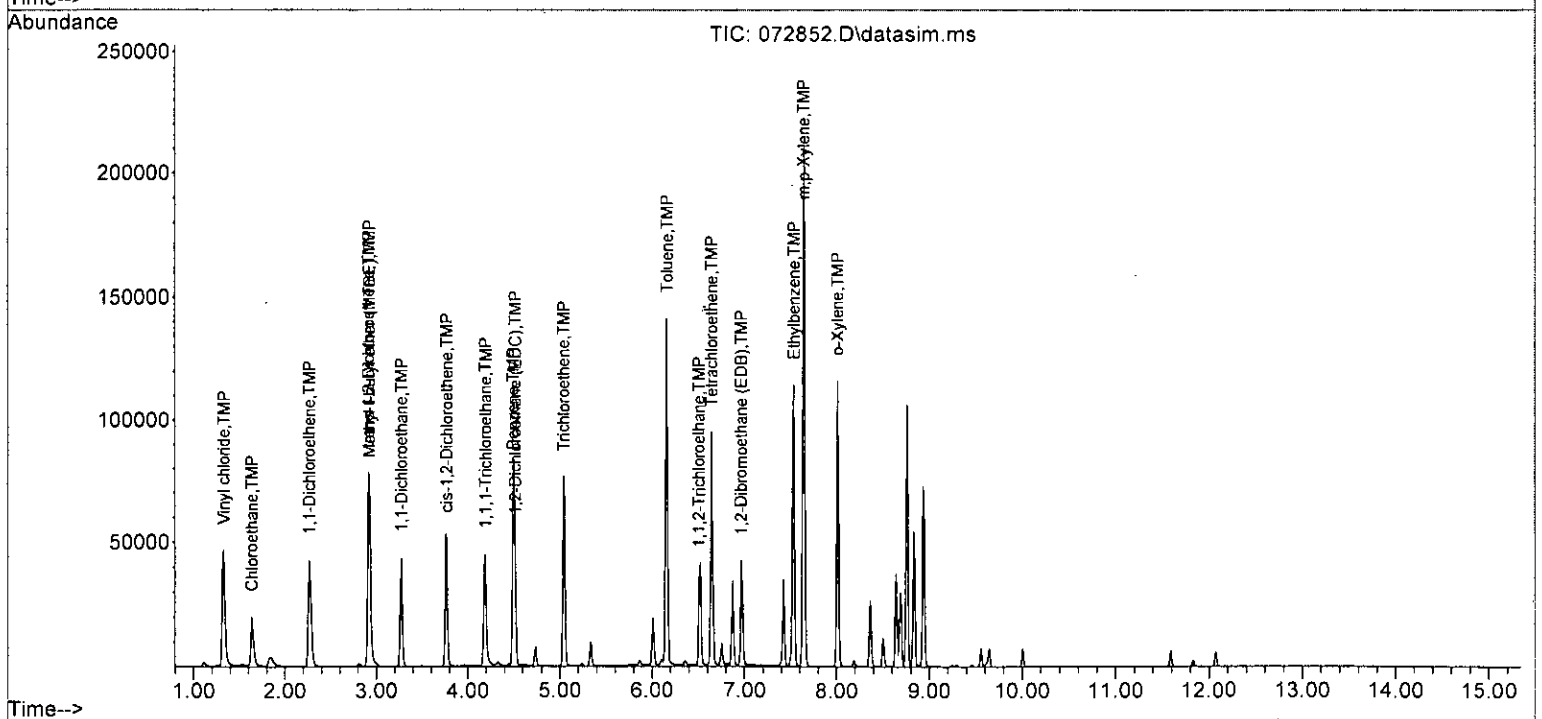
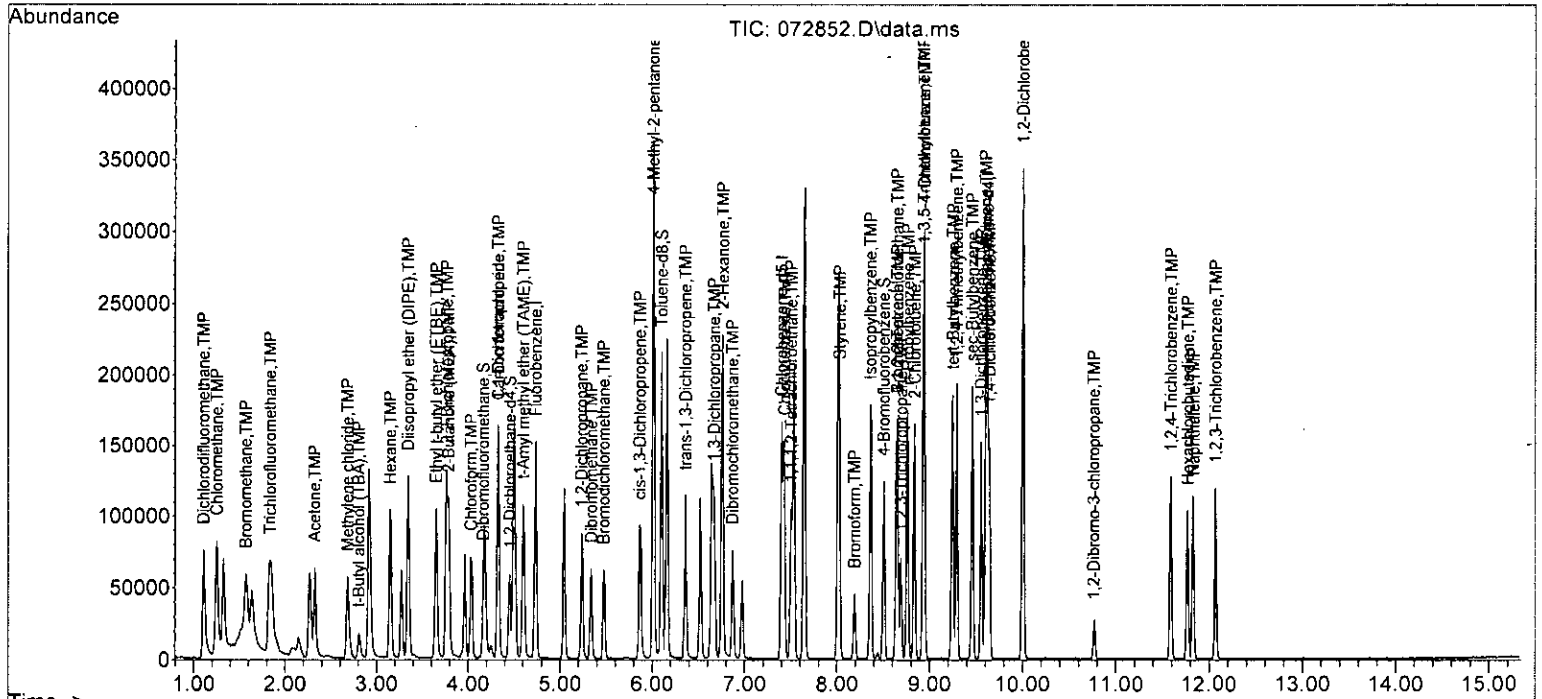
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	29384	51.421	ppb	93
38) cis-1,3-Dichloropropene	5.86	75	45943	10.099	ppb	97
40] Toluene	6.16	92	79119	10.650	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	41028	10.327	ppb	98
42] 1,1,2-Trichloroethane	6.51	83	25190	10.336	ppb	95
43) 2-Hexanone	6.76	43	163505	48.140	ppb	95
44) 1,3-Dichloropropane	6.67	76	45089	10.467	ppb	98
45] Tetrachloroethene	6.64	164	31768	10.805	ppb	97
46) Dibromochloromethane	6.87	129	33864	10.346	ppb	97
47] 1,2-Dibromoethane (EDB)	6.97	107	32974	10.428	ppb	98
48) Chlorobenzene	7.43	112	73237	10.444	ppb	98
49] Ethylbenzene	7.54	91	121389	10.884	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	24952	10.063	ppb	97
51] m,p-Xylene	7.64	106	94788	21.724	ppb	98
52] o-Xylene	8.01	106	45207	10.517	ppb	99
53) Styrene	8.03	104	70398	10.308	ppb	97
54) Isopropylbenzene	8.36	105	111903	10.866	ppb	98
55) Bromoform	8.19	173	18528	10.293	ppb	99
58) n-Propylbenzene	8.76	91	130317	10.197	ppb	98
59) Bromobenzene	8.65	156	30482	9.740	ppb	99
60) 1,3,5-Trimethylbenzene	8.93	105	90357	10.175	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	28844	9.779	ppb	97
62) 1,2,3-Trichloropropane	8.69	75	22729	8.991	ppb	98
63) 2-Chlorotoluene	8.84	91	76398	10.209	ppb	98
64) 4-Chlorotoluene	8.94	91	87475	10.085	ppb	100
65) tert-Butylbenzene	9.25	119	81786	10.075	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	95071	10.124	ppb	100
67) sec-Butylbenzene	9.45	105	118422	9.914	ppb	98
68) p-Isopropyltoluene	9.60	119	101465	10.176	ppb	97
69) 1,3-Dichlorobenzene	9.55	146	56268	10.146	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	53999	9.524	ppb	97
71) 1,2-Dichlorobenzene	10.00	146	53190	10.094	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.76	75	5245	9.363	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	34357	9.851	ppb	98
74) Hexachlorobutadiene	11.77	225	18389	9.795	ppb	97
75) Naphthalene	11.83	128	81878	9.968	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	32139	10.130	ppb	99

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



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M



Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
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Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	105	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.01
3 S	Dibromofluoromethane	10.000	10.218	-2.2	104	0.00
4 TMP	Dichlorodifluoromethane	10.000	9.474	5.3	99	0.00
5 TMP	Chloromethane	10.000	9.634	3.7	105	0.00
6 TMP	Vinyl chloride	10.000	9.699	3.0	107	0.01
7 TMP	Bromomethane	10.000	10.436	-4.4	111	0.00
8 TMP	Chloroethane	10.000	9.083	9.2	103	0.00
9 TMP	Trichlorofluoromethane	10.000	9.809	1.9	102	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP	Acetone	50.000	44.844	10.3	102	0.00
12 TMP	1,1-Dichloroethene	10.000	11.508	-15.1	118	0.00
13 TMP	Hexane	10.000	10.270	-2.7	107	0.00
14 TMP	Methylene chloride	10.000	9.896	1.0	103	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	53.742	-7.5	119	0.00
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.264	-2.6	109	0.00
17 TMP	trans-1,2-Dichloroethene	10.000	10.658	-6.6	107	0.00
18 TMP	Diisopropyl ether (DIPE)	10.000	10.514	-5.1	111	0.00
19 TMP	1,1-Dichloroethane	10.000	9.990	0.1	106	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.671	-6.7	111	0.00
21 TMP	2,2-Dichloropropane	10.000	9.805	2.0	107	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	9.842	1.6	105	0.01
23 TMP	Chloroform	10.000	9.834	1.7	104	0.00
24 TMP	2-Butanone (MEK)	50.000	52.779	-5.6	117	0.00
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.439	-4.4	109	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	10.539	-5.4	104	0.00
27 TMP	1,1,1-Trichloroethane	10.000	9.851	1.5	103	0.00
28 TMP	1,1-Dichloropropene	10.000	9.802	2.0	101	0.00
29 TMP	Carbon tetrachloride	10.000	10.116	-1.2	106	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.531	4.7	95	0.00
31 TMP	Benzene	10.000	10.410	-4.1	104	0.00
32 TMP	Trichloroethene	10.000	10.626	-6.3	107	0.00
33 TMP	1,2-Dichloropropane	10.000	10.034	-0.3	107	0.00
34 TMP	Bromodichloromethane	10.000	10.132	-1.3	106	0.00
35 S	Toluene-d8	10.000	10.170	-1.7	106	0.00
36 TMP	Dibromomethane	10.000	9.867	1.3	104	0.00
37 TMP	4-Methyl-2-pentanone	50.000	51.421	-2.8	106	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	10.099	-1.0	106	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	103	0.00
40 TMP	Toluene	10.000	10.650	-6.5	104	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	10.327	-3.3	107	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.336	-3.4	105	0.00
43 TMP	2-Hexanone	50.000	48.140	3.7	99	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.467	-4.7	109	0.00
45 TMP Tetrachloroethene	10.000	10.805	-8.0	105	0.00
46 TMP Dibromochloromethane	10.000	10.346	-3.5	110	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.428	-4.3	105	0.00
48 TMP Chlorobenzene	10.000	10.444	-4.4	107	0.00
49 TMP Ethylbenzene	10.000	10.884	-8.8	105	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.063	-0.6	105	0.00
51 TMP m,p-Xylene	20.000	21.724	-8.6	105	0.00
52 TMP o-Xylene	10.000	10.517	-5.2	104	0.00
53 TMP Styrene	10.000	10.308	-3.1	106	0.00
54 TMP Isopropylbenzene	10.000	10.866	-8.7	112	0.00
55 TMP Bromoform	10.000	10.293	-2.9	114	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	106	0.00
57 S 4-Bromofluorobenzene	10.000	9.729	2.7	105	0.00
58 TMP n-Propylbenzene	10.000	10.197	-2.0	107	0.00
59 TMP Bromobenzene	10.000	9.740	2.6	104	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.175	-1.8	105	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.779	2.2	107	0.00
62 TMP 1,2,3-Trichloropropane	10.000	8.991	10.1	105	0.00
63 TMP 2-Chlorotoluene	10.000	10.209	-2.1	106	0.00
64 TMP 4-Chlorotoluene	10.000	10.085	-0.9	106	0.00
65 TMP tert-Butylbenzene	10.000	10.075	-0.7	107	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.124	-1.2	108	0.00
67 TMP sec-Butylbenzene	10.000	9.914	0.9	105	0.00
68 TMP p-Isopropyltoluene	10.000	10.176	-1.8	107	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.146	-1.5	108	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.524	4.8	104	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.094	-0.9	108	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.363	6.4	113	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.851	1.5	109	0.00
74 TMP Hexachlorobutadiene	10.000	9.795	2.1	103	0.00
75 TMP Naphthalene	10.000	9.968	0.3	113	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.130	-1.3	111	0.00

(#) = Out of Range

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

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	105	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.01
3 S Dibromofluoromethane	0.271	0.277	-2.2	104	0.00
4 TMP Dichlorodifluoromethane	0.906	0.858	5.3	99	0.00
5 TMP Chloromethane	0.949	0.914	3.7	105	0.00
6 TMP Vinyl chloride	0.769	0.746	3.0	107	0.01
7 TMP Bromomethane	0.377	0.393	-4.2	111	0.00
8 TMP Chloroethane	0.323	0.293	9.3	103	0.00
9 TMP Trichlorofluoromethane	1.197	1.174	1.9	102	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP Acetone	0.040	0.036	10.0	102	0.00
12 TMP 1,1-Dichloroethene	0.288	0.311	-8.0	118	0.00
13 TMP Hexane	0.394	0.404	-2.5	107	0.00
14 TMP Methylene chloride	0.244	0.241	1.2	103	0.00
15 TMP t-Butyl alcohol (TBA)	0.033	0.035	-6.1	119	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.627	0.644	-2.7	109	0.00
17 TMP trans-1,2-Dichloroethene	0.282	0.272	3.5	107	0.00
18 TMP Diisopropyl ether (DIPE)	0.936	0.984	-5.1	111	0.00
19 TMP 1,1-Dichloroethane	0.486	0.485	0.2	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.264	0.281	-6.4	111	0.00
21 TMP 2,2-Dichloropropane	0.269	0.263	2.2	107	0.00
22 TMP cis-1,2-Dichloroethene	0.289	0.284	1.7	105	0.01
23 TMP Chloroform	0.454	0.447	1.5	104	0.00
24 TMP 2-Butanone (MEK)	0.193	0.203	-5.2	117	0.00
25 TMP t-Amyl methyl ether (TAME)	0.594	0.620	-4.4	109	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.462	0.400	13.4	104	0.00
27 TMP 1,1,1-Trichloroethane	0.406	0.400	1.5	103	0.00
28 TMP 1,1-Dichloropropene	0.343	0.336	2.0	101	0.00
29 TMP Carbon tetrachloride	0.354	0.359	-1.4	106	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	95	0.00
31 TMP Benzene	1.042	1.011	3.0	104	0.00
32 TMP Trichloroethene	0.326	0.316	3.1	107	0.00
33 TMP 1,2-Dichloropropane	0.269	0.270	-0.4	107	0.00
34 TMP Bromodichloromethane	0.327	0.331	-1.2	106	0.00
35 S Toluene-d8	1.111	1.130	-1.7	106	0.00
36 TMP Dibromomethane	0.174	0.171	1.7	104	0.00
37 TMP 4-Methyl-2-pentanone	0.056	0.058	-3.6	106	0.00
38 TMP cis-1,3-Dichloropropene	0.449	0.454	-1.1	106	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
40 TMP Toluene	1.092	1.050	3.8	104	0.00
41 TMP trans-1,3-Dichloropropene	0.527	0.545	-3.4	107	0.00
42 TMP 1,1,2-Trichloroethane	0.323	0.334	-3.4	105	0.00
43 TMP 2-Hexanone	0.451	0.434	3.8	99	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\07-28-23\  
 Data File : 072852.D  
 Acq On : 29 Jul 2023 03:15 am  
 Operator : MD  
 Sample : 10 ppb 8260 SCV 69-195c  
 Misc : soil/water  
 ALS Vial : 38 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Jul 29 09:23:51 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.598	-4.5	109	0.00
45 TMP Tetrachloroethene	0.446	0.422	5.4	105	0.00
46 TMP Dibromochloromethane	0.434	0.449	-3.5	110	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.438	6.6	105	0.00
48 TMP Chlorobenzene	0.931	0.972	-4.4	107	0.00
49 TMP Ethylbenzene	1.609	1.611	-0.1	105	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.331	-0.6	105	0.00
51 TMP m,p-Xylene	0.630	0.629	0.2	105	0.00
52 TMP o-Xylene	0.606	0.600	1.0	104	0.00
53 TMP Styrene	0.906	0.934	-3.1	106	0.00
54 TMP Isopropylbenzene	1.367	1.485	-8.6	112	0.00
55 TMP Bromoform	0.239	0.246	-2.9	114	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
57 S 4-Bromofluorobenzene	0.901	0.876	2.8	105	0.00
58 TMP n-Propylbenzene	3.326	3.391	-2.0	107	0.00
59 TMP Bromobenzene	0.814	0.793	2.6	104	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.351	-1.7	105	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.751	2.2	107	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.591	10.2	105	0.00
63 TMP 2-Chlorotoluene	1.947	1.988	-2.1	106	0.00
64 TMP 4-Chlorotoluene	2.257	2.276	-0.8	106	0.00
65 TMP tert-Butylbenzene	2.112	2.128	-0.8	107	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.474	-1.2	108	0.00
67 TMP sec-Butylbenzene	3.109	3.082	0.9	105	0.00
68 TMP p-Isopropyltoluene	2.595	2.640	-1.7	107	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.464	-1.5	108	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.405	4.7	104	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.384	-0.9	108	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.136	6.8	113	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.894	1.5	109	0.00
74 TMP Hexachlorobutadiene	0.489	0.479	2.0	103	0.00
75 TMP Naphthalene	2.138	2.131	0.3	113	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.836	-1.2	111	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

**EPA 8260D**  
**CCV Summaries**

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081103.D  
 Acq On : 11 Aug 2023 06:41 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:55 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : 5at Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	76072	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	61246	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	31763	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	22851	11.070	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	110.70%	
30) 1,2-Dichloroethane-d4	4.45	102	4780	10.457	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	104.60%	
35) Toluene-d8	6.10	98	87881	10.398	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	104.00%	
57) 4-Bromofluorobenzene	8.50	95	26972	9.428	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	94.30%	
Target Compounds						
						Qvalue
2) Ethanol	2.34	45	425	No Calib		
4) Dichlorodifluoromethane	1.12	85	69441	10.074	ppb	99
5) Chloromethane	1.26	50	71186	9.860	ppb	98
6] Vinyl chloride	1.33	62	58957	10.082	ppb	100
7) Bromomethane	1.58	94	36973	12.901	ppb	94
8] Chloroethane	1.65	64	25598	10.431	ppb	96
9) Trichlorofluoromethane	1.85	101	103820	11.398	ppb	99
10) 2-Propanol	2.34	45	425	No Calib	#	
11) Acetone	2.33	58	17355	57.631	ppb	99
12] 1,1-Dichloroethene	2.27	96	22690	11.027	ppb	90
13) Hexane	3.16	57	31688	10.578	ppb	94
14) Methylene chloride	2.69	84	19306	10.419	ppb	92
15) t-Butyl alcohol (TBA)	2.82	59	13490	54.557	ppb	96
16] Methyl t-butyl ether (...)	2.93	73	50499	10.582	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	21732	11.215	ppb	86
18) Diisopropyl ether (DIPE)	3.35	45	73988	10.390	ppb	96
19] 1,1-Dichloroethane	3.27	63	38479	10.409	ppb	95
20) Ethyl t-butyl ether (E...)	3.66	87	22661	11.295	ppb	# 86
21) 2,2-Dichloropropane	3.76	77	25522	12.486	ppb	97
22] cis-1,2-Dichloroethene	3.77	96	24030	10.939	ppb	96
23) Chloroform	4.04	83	37274	10.790	ppb	98
24) 2-Butanone (MEK)	3.79	43	85907	58.635	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	48767	10.796	ppb	99
26] 1,2-Dichloroethane (EDC)	4.52	62	33336	11.559	ppb	99
27] 1,1,1-Trichloroethane	4.19	97	35886	11.627	ppb	97
28) 1,1-Dichloropropene	4.33	75	28373	10.865	ppb	96
29) Carbon tetrachloride	4.33	117	32301	11.979	ppb	96
31] Benzene	4.50	78	79908	10.818	ppb	98
32] Trichloroethene	5.04	95	24613	10.863	ppb	96
33) 1,2-Dichloropropane	5.24	63	20217	9.867	ppb	99
34) Bromodichloromethane	5.48	83	27841	11.190	ppb	99
36) Dibromomethane	5.34	93	13866	10.504	ppb	98

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081103.D  
 Acq On : 11 Aug 2023 06:41 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:55 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

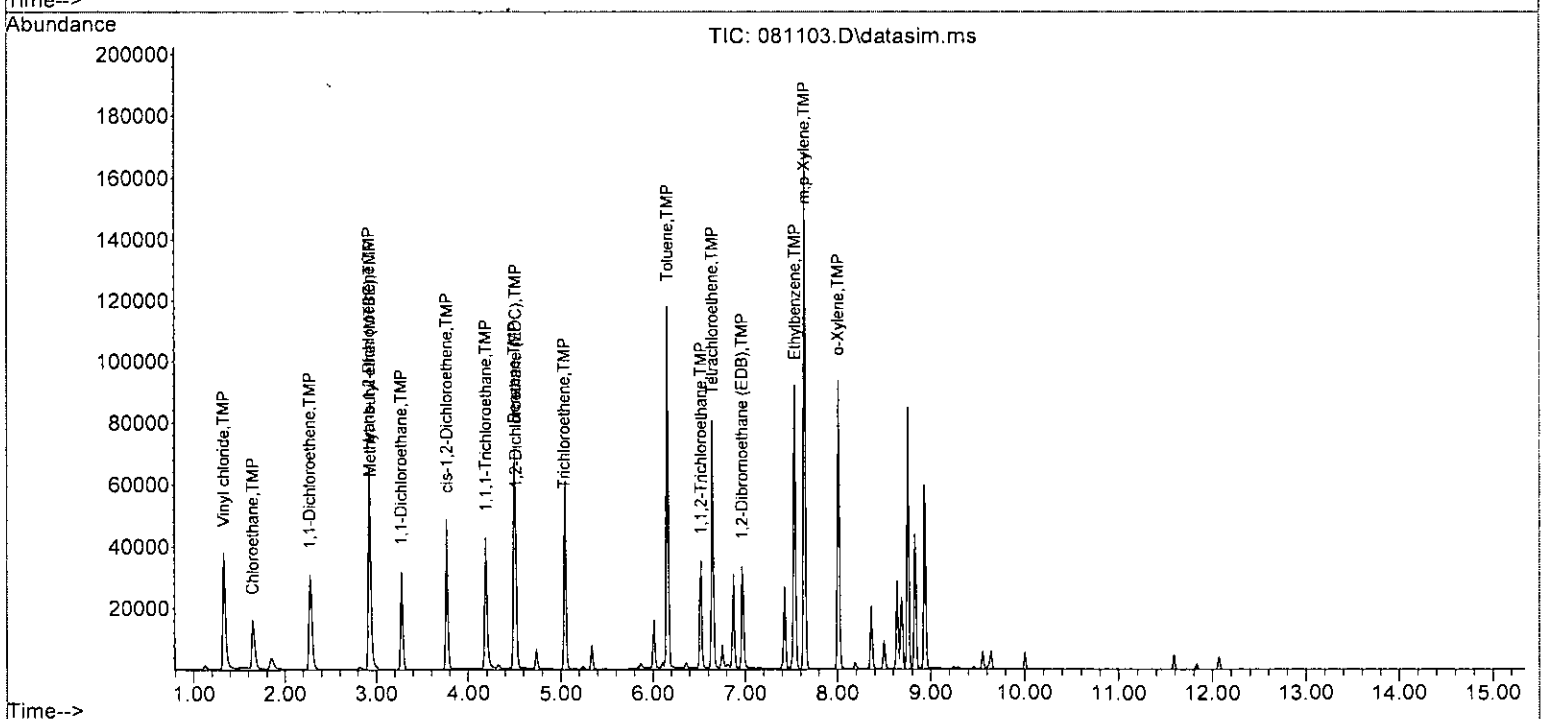
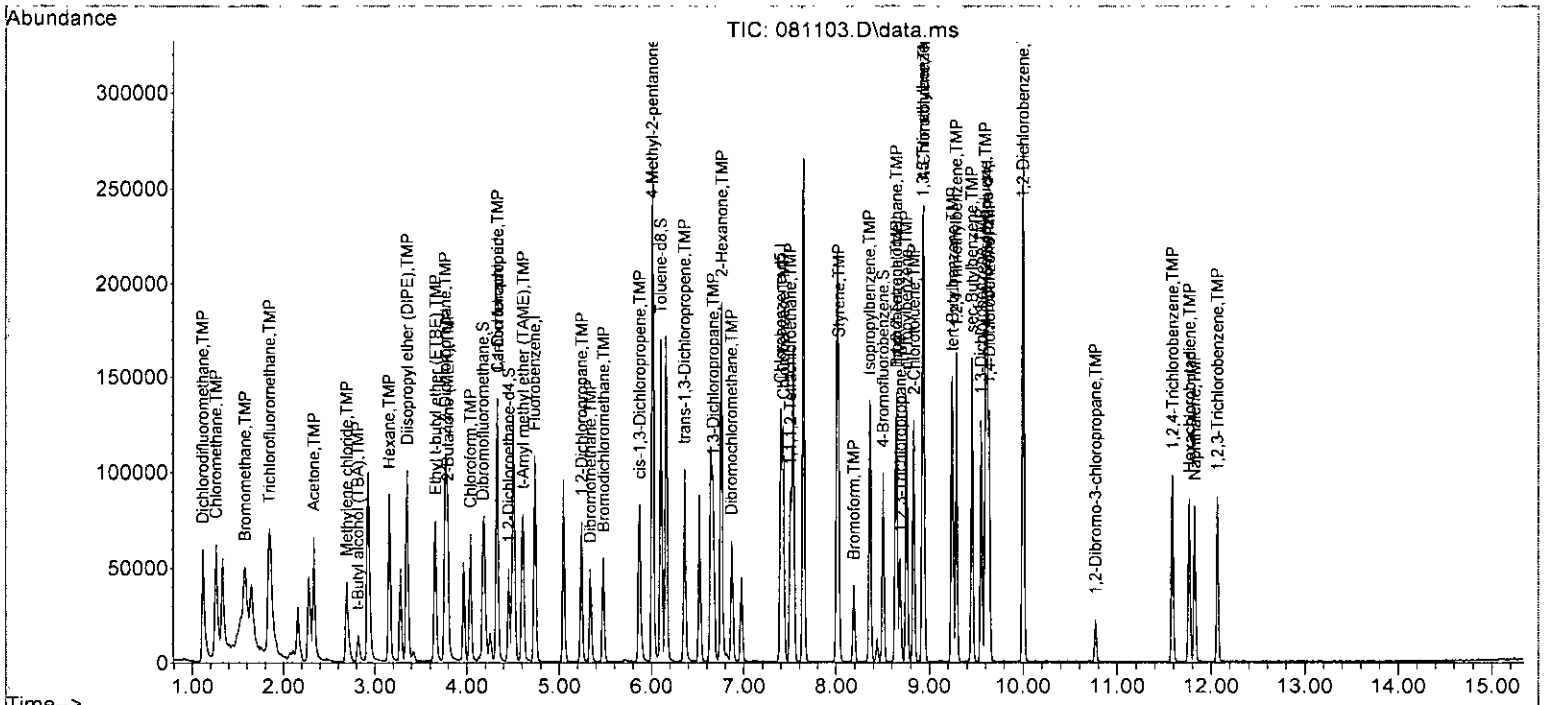
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	22674	52.797	ppb	89
38) cis-1,3-Dichloropropene	5.87	75	36903	10.794	ppb	96
40] Toluene	6.16	92	62462	10.343	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	35416	10.966	ppb	97
42] 1,1,2-Trichloroethane	6.52	83	19513	9.850	ppb #	70
43) 2-Hexanone	6.76	43	132468	47.979	ppb	95
44) 1,3-Dichloropropane	6.67	76	35005	9.997	ppb	100
45] Tetrachloroethene	6.64	164	27067	11.326	ppb	97
46) Dibromochloromethane	6.87	129	29453	11.069	ppb	95
47] 1,2-Dibromoethane (EDB)	6.97	107	26861	10.450	ppb	97
48) Chlorobenzene	7.43	112	59297	10.403	ppb	98
49] Ethylbenzene	7.54	91	96654	10.661	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	22116	10.973	ppb	96
51] m,p-Xylene	7.64	106	76801	21.653	ppb	98
52] o-Xylene	8.01	106	36819	10.537	ppb	100
53) Styrene	8.03	104	57729	10.399	ppb	99
54) Isopropylbenzene	8.36	105	86411	10.322	ppb	99
55) Bromoform	8.19	173	16510	11.283	ppb	99
58) n-Propylbenzene	8.75	91	101956	9.652	ppb	98
59) Bromobenzene	8.65	156	25978	10.042	ppb	95
60) 1,3,5-Trimethylbenzene	8.93	105	75439	10.278	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	23775	9.752	ppb	96
62) 1,2,3-Trichloropropane	8.69	75	17513	8.381	ppb	96
63) 2-Chlorotoluene	8.84	91	60230	9.737	ppb	97
64) 4-Chlorotoluene	8.94	91	69662	9.716	ppb	98
65) tert-Butylbenzene	9.25	119	67141	10.007	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	76457	9.850	ppb	98
67) sec-Butylbenzene	9.45	105	96030	9.726	ppb	97
68) p-Isopropyltoluene	9.60	119	84523	10.256	ppb	97
69) 1,3-Dichlorobenzene	9.55	146	47169	10.289	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	45828	9.779	ppb	97
71) 1,2-Dichlorobenzene	10.00	146	43376	9.959	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	4235	9.147	ppb	85
73) 1,2,4-Trichlorobenzene	11.59	180	27650	9.591	ppb	97
74) Hexachlorobutadiene	11.77	225	16571	10.678	ppb	97
75) Naphthalene	11.82	128	58921	8.678	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	24358	9.289	ppb	98

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



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081103.D  
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 Operator : MD  
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 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:55 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
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 DataAcq Meth:VM040623.M

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	79	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.03
3 S	Dibromofluoromethane	10.000	11.070	-10.7	85	0.01
4 TMP	Dichlorodifluoromethane	10.000	10.074	-0.7	79	0.01
5 TMP	Chloromethane	10.000	9.860	1.4	81	0.01
6 TMP	Vinyl chloride	10.000	10.082	-0.8	83	0.01
7 TMP	Bromomethane	10.000	12.901	-29.0#	103	0.01
8 TMP	Chloroethane	10.000	10.431	-4.3	89	0.01
9 TMP	Trichlorofluoromethane	10.000	11.398	-14.0	89	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.03
11 TMP	Acetone	50.000	57.631	-15.3	98	0.01
12 TMP	1,1-Dichloroethene	10.000	11.027	-10.3	85	0.01
13 TMP	Hexane	10.000	10.578	-5.8	83	0.01
14 TMP	Methylene chloride	10.000	10.419	-4.2	82	0.01
15 TMP	t-Butyl alcohol (TBA)	50.000	54.557	-9.1	91	0.01
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.582	-5.8	85	0.01
17 TMP	trans-1,2-Dichloroethene	10.000	11.215	-12.1	85	0.01
18 TMP	Diisopropyl ether (DIPE)	10.000	10.390	-3.9	83	0.01
19 TMP	1,1-Dichloroethane	10.000	10.409	-4.1	83	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	11.295	-13.0	88	0.01
21 TMP	2,2-Dichloropropane	10.000	12.486	-24.9#	103	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.939	-9.4	88	0.01
23 TMP	Chloroform	10.000	10.790	-7.9	85	0.01
24 TMP	2-Butanone (MEK)	50.000	58.635	-17.3	98	0.01
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.796	-8.0	85	0.01
26 TMP	1,2-Dichloroethane (EDC)	10.000	11.559	-15.6	86	0.00
27 TMP	1,1,1-Trichloroethane	10.000	11.627	-16.3	91	0.00
28 TMP	1,1-Dichloropropene	10.000	10.865	-8.7	84	0.01
29 TMP	Carbon tetrachloride	10.000	11.979	-19.8	94	0.01
30 S	1,2-Dichloroethane-d4	10.000	10.457	-4.6	79	0.00
31 TMP	Benzene	10.000	10.818	-8.2	81	0.01
32 TMP	Trichloroethene	10.000	10.863	-8.6	82	0.00
33 TMP	1,2-Dichloropropane	10.000	9.867	1.3	79	0.01
34 TMP	Bromodichloromethane	10.000	11.190	-11.9	88	0.01
35 S	Toluene-d8	10.000	10.398	-4.0	81	0.00
36 TMP	Dibromomethane	10.000	10.504	-5.0	83	0.00
37 TMP	4-Methyl-2-pentanone	50.000	52.797	-5.6	82	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	10.794	-7.9	85	0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	84	0.00
40 TMP	Toluene	10.000	10.343	-3.4	82	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	10.966	-9.7	92	0.00
42 TMP	1,1,2-Trichloroethane	10.000	9.850	1.5	82	0.01
43 TMP	2-Hexanone	50.000	47.979	4.0	80	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081103.D  
 Acq On : 11 Aug 2023 06:41 am  
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 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:55 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.997	0.0	84	0.00
45 TMP Tetrachloroethene	10.000	11.326	-13.3	90	0.00
46 TMP Dibromochloromethane	10.000	11.069	-10.7	95	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.450	-4.5	86	0.00
48 TMP Chlorobenzene	10.000	10.403	-4.0	86	0.00
49 TMP Ethylbenzene	10.000	10.661	-6.6	84	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.973	-9.7	93	0.00
51 TMP m,p-Xylene	20.000	21.653	-8.3	85	0.00
52 TMP o-Xylene	10.000	10.537	-5.4	85	0.00
53 TMP Styrene	10.000	10.399	-4.0	87	0.00
54 TMP Isopropylbenzene	10.000	10.322	-3.2	86	0.00
55 TMP Bromoform	10.000	11.283	-12.8	101	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	88	0.00
57 S 4-Bromofluorobenzene	10.000	9.428	5.7	84	0.00
58 TMP n-Propylbenzene	10.000	9.652	3.5	84	-0.01
59 TMP Bromobenzene	10.000	10.042	-0.4	89	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.278	-2.8	88	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.752	2.5	88	0.00
62 TMP 1,2,3-Trichloropropane	10.000	8.381	16.2	81	0.00
63 TMP 2-Chlorotoluene	10.000	9.737	2.6	84	0.00
64 TMP 4-Chlorotoluene	10.000	9.716	2.8	84	0.00
65 TMP tert-Butylbenzene	10.000	10.007	-0.1	88	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.850	1.5	87	0.00
67 TMP sec-Butylbenzene	10.000	9.726	2.7	85	0.00
68 TMP p-Isopropyltoluene	10.000	10.256	-2.6	89	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.289	-2.9	91	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.779	2.2	88	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.959	0.4	88	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.147	8.5	91	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.591	4.1	88	0.00
74 TMP Hexachlorobutadiene	10.000	10.678	-6.8	93	0.00
75 TMP Naphthalene	10.000	8.678	13.2	81	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.289	7.1	84	0.00

(#) = Out of Range

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081103.D  
 Acq On : 11 Aug 2023 06:41 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:55 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	79	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.03
3 S	Dibromofluoromethane	0.271	0.300	-10.7	85	0.01
4 TMP	Dichlorodifluoromethane	0.906	0.913	-0.8	79	0.01
5 TMP	Chloromethane	0.949	0.936	1.4	81	0.01
6 TMP	Vinyl chloride	0.769	0.775	-0.8	83	0.01
7 TMP	Bromomethane	0.377	0.486	-28.9#	103	0.01
8 TMP	Chloroethane	0.323	0.336	-4.0	89	0.01
9 TMP	Trichlorofluoromethane	1.197	1.365	-14.0	89	0.01
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.03
11 TMP	Acetone	0.040	0.046	-15.0	98	0.01
12 TMP	1,1-Dichloroethene	0.288	0.298	-3.5	85	0.01
13 TMP	Hexane	0.394	0.417	-5.8	83	0.01
14 TMP	Methylene chloride	0.244	0.254	-4.1	82	0.01
15 TMP	t-Butyl alcohol (TBA)	0.033	0.035	-6.1	91	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.627	0.664	-5.9	85	0.01
17 TMP	trans-1,2-Dichloroethene	0.282	0.286	-1.4	85	0.01
18 TMP	Diisopropyl ether (DIPE)	0.936	0.973	-4.0	83	0.01
19 TMP	1,1-Dichloroethane	0.486	0.506	-4.1	83	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.264	0.298	-12.9	88	0.01
21 TMP	2,2-Dichloropropane	0.269	0.335	-24.5#	103	0.00
22 TMP	cis-1,2-Dichloroethene	0.289	0.316	-9.3	88	0.01
23 TMP	Chloroform	0.454	0.490	-7.9	85	0.01
24 TMP	2-Butanone (MEK)	0.193	0.226	-17.1	98	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.594	0.641	-7.9	85	0.01
26 TMP	1,2-Dichloroethane (EDC)	0.462	0.438	5.2	86	0.00
27 TMP	1,1,1-Trichloroethane	0.406	0.472	-16.3	91	0.00
28 TMP	1,1-Dichloropropene	0.343	0.373	-8.7	84	0.01
29 TMP	Carbon tetrachloride	0.354	0.425	-20.1#	94	0.01
30 S	1,2-Dichloroethane-d4	0.060	0.063	-5.0	79	0.00
31 TMP	Benzene	1.042	1.050	-0.8	81	0.01
32 TMP	Trichloroethene	0.326	0.324	0.6	82	0.00
33 TMP	1,2-Dichloropropane	0.269	0.266	1.1	79	0.01
34 TMP	Bromodichloromethane	0.327	0.366	-11.9	88	0.01
35 S	Toluene-d8	1.111	1.155	-4.0	81	0.00
36 TMP	Dibromomethane	0.174	0.182	-4.6	83	0.00
37 TMP	4-Methyl-2-pentanone	0.056	0.060	-7.1	82	0.00
38 TMP	cis-1,3-Dichloropropene	0.449	0.485	-8.0	85	0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
40 TMP	Toluene	1.092	1.020	6.6	82	0.00
41 TMP	trans-1,3-Dichloropropene	0.527	0.578	-9.7	92	0.00
42 TMP	1,1,2-Trichloroethane	0.323	0.319	1.2	82	0.01
43 TMP	2-Hexanone	0.451	0.433	4.0	80	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081103.D  
 Acq On : 11 Aug 2023 06:41 am  
 Operator : MD  
 Sample : 10 ppb 8260 CCV 70-18N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:55 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.572	0.572	0.0	84	0.00
45 TMP Tetrachloroethene	0.446	0.442	0.9	90	0.00
46 TMP Dibromochloromethane	0.434	0.481	-10.8	95	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.469	0.439	6.4	86	0.00
48 TMP Chlorobenzene	0.931	0.968	-4.0	86	0.00
49 TMP Ethylbenzene	1.609	1.578	1.9	84	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.329	0.361	-9.7	93	0.00
51 TMP m,p-Xylene	0.630	0.627	0.5	85	0.00
52 TMP o-Xylene	0.606	0.601	0.8	85	0.00
53 TMP Styrene	0.906	0.943	-4.1	87	0.00
54 TMP Isopropylbenzene	1.367	1.411	-3.2	86	0.00
55 TMP Bromoform	0.239	0.270	-13.0	101	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
57 5 4-Bromofluorobenzene	0.901	0.849	5.8	84	0.00
58 TMP n-Propylbenzene	3.326	3.210	3.5	84	-0.01
59 TMP Bromobenzene	0.814	0.818	-0.5	89	0.00
60 TMP 1,3,5-Trimethylbenzene	2.311	2.375	-2.8	88	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.768	0.749	2.5	88	0.00
62 TMP 1,2,3-Trichloropropane	0.658	0.551	16.3	81	0.00
63 TMP 2-Chlorotoluene	1.947	1.896	2.6	84	0.00
64 TMP 4-Chlorotoluene	2.257	2.193	2.8	84	0.00
65 TMP tert-Butylbenzene	2.112	2.114	-0.1	88	0.00
66 TMP 1,2,4-Trimethylbenzene	2.444	2.407	1.5	87	0.00
67 TMP sec-Butylbenzene	3.109	3.023	2.8	85	0.00
68 TMP p-Isopropyltoluene	2.595	2.661	-2.5	89	0.00
69 TMP 1,3-Dichlorobenzene	1.443	1.485	-2.9	91	0.00
70 TMP 1,4-Dichlorobenzene	1.475	1.443	2.2	88	0.00
71 TMP 1,2-Dichlorobenzene	1.371	1.366	0.4	88	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.146	0.133	8.9	91	0.00
73 TMP 1,2,4-Trichlorobenzene	0.908	0.871	4.1	88	0.00
74 TMP Hexachlorobutadiene	0.489	0.522	-6.7	93	0.00
75 TMP Naphthalene	2.138	1.855	13.2	81	0.00
76 TMP 1,2,3-Trichlorobenzene	0.826	0.767	7.1	84	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081104.D  
 Acq On : 11 Aug 2023 07:04 am  
 Operator : MD  
 Sample : 03-1819 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:59 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	73022	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	58926	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	30685	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	21214	10.706	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	107.10%		
30) 1,2-Dichloroethane-d4	4.45	102	4649	10.595	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	106.00%		
35) Toluene-d8	6.10	98	81692	10.069	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	100.70%		
57) 4-Bromofluorobenzene	8.50	95	25726	9.308	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	93.10%		
Target Compounds							
							Qvalue
2) Ethanol	2.32	45	408	No Calib			
4) Dichlorodifluoromethane	1.12	85	64678	9.775	ppb		97
5) Chloromethane	1.26	50	70194	10.129	ppb		95
6] Vinyl chloride	1.33	62	55894	9.958	ppb		97
7) Bromomethane	1.58	94	36826	13.387	ppb		95
8] Chloroethane	1.65	64	27627	11.728	ppb		99
9) Trichlorofluoromethane	1.85	101	105237	12.036	ppb		95
10) 2-Propanol	2.32	45	408	No Calib			
11) Acetone	2.33	58	10017	34.653	ppb		89
12] 1,1-Dichloroethene	2.27	96	21643	10.958	ppb		97
13) Hexane	3.16	57	29899	10.398	ppb		94
14) Methylene chloride	2.69	84	18596	10.455	ppb		98
15) t-Butyl alcohol (TBA)	2.81	59	13534	57.021	ppb		95
16] Methyl t-butyl ether (...)	2.93	73	48409	10.568	ppb		94
17] trans-1,2-Dichloroethene	2.92	96	20641	11.096	ppb	#	82
18) Diisopropyl ether (DIPE)	3.35	45	69585	10.180	ppb		93
19] 1,1-Dichloroethane	3.27	63	36539	10.297	ppb		97
20) Ethyl t-butyl ether (E...)	3.65	87	20815	10.809	ppb		98
21) 2,2-Dichloropropane	3.76	77	24263	12.366	ppb		99
22] cis-1,2-Dichloroethene	3.77	96	22078	10.470	ppb		98
23) Chloroform	4.04	83	35655	10.752	ppb		99
24) 2-Butanone (MEK)	3.78	43	67284	47.843	ppb		98
25) t-Amyl methyl ether (T...)	4.60	73	46187	10.652	ppb		99
26] 1,2-Dichloroethane (EDC)	4.52	62	32014	11.564	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	34256	11.562	ppb		98
28) 1,1-Dichloropropene	4.33	75	26911	10.735	ppb		92
29) Carbon tetrachloride	4.33	117	31974	12.353	ppb		99
31] Benzene	4.50	78	76569	10.799	ppb		99
32] Trichloroethene	5.04	95	23526	10.817	ppb		98
33) 1,2-Dichloropropane	5.24	63	19661	9.996	ppb		99
34) Bromodichloromethane	5.48	83	27446	11.492	ppb		94
36) Dibromomethane	5.34	93	13703	10.814	ppb		96

**EPA 8260D**  
**Quality Assurance Data**

Spike Recovery and RPD Summary Report - WATER

Method : Y:\Methods\Inst13\072823vms13.M (RTE Integrator)  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration

Non-Spiked Sample: 081107.D

Spike Sample	Spike Duplicate Sample
File ID : 081104.D	081105.D
Sample : 03-1819 lcs	03-1819 lcsd
Acq Time: 11 Aug 2023 07:04 am	11 Aug 2023 07:27 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Ethanol	0.0	0	0	0	0	0	99#	20	0-300
Dichlorodifluorometh	0.0	10	10	10	98	97	1	20	49-149
Chloromethane	0.2	10	10	9	100	93	7	20	34-143
Vinyl chloride	0.0	10	10	10	100	96	4	20	43-149
Bromomethane	0.0	10	13	12	134	125	7	20	28-182
Chloroethane	0.0	10	12	11	117	111	6	20	59-157
Trichlorofluorometha	0.0	10	12	11	120	113	6	20	59-141
2-Propanol	0.0	0	0	0	0	0	99#	20	0-300
Acetone	1.1	50	35	32	67	62	8	20	20-139
1,1-Dichloroethene	0.0	10	11	11	110	106	3	20	67-138
Hexane	0.0	10	10	10	104	103	1	20	50-161
Methylene chloride	0.5	10	10	10	100	99	1	20	29-192
t-Butyl alcohol (TBA	0.0	50	57	54	114	109	5	20	46-208
Methyl t-butyl ether	0.0	10	11	10	106	101	4	20	70-130
trans-1,2-Dichloroet	0.0	10	11	11	111	108	3	20	70-130
Diisopropyl ether (D	0.0	10	10	10	102	100	2	20	70-130
1,1-Dichloroethane	0.0	10	10	10	103	100	3	20	70-130
Ethyl t-butyl ether	0.0	10	11	11	108	106	2	20	70-128
2,2-Dichloropropane	0.0	10	12	12	124	121	2	20	71-148
cis-1,2-Dichloroethe	0.0	10	10	11	105	106	2	20	70-130
Chloroform	0.0	10	11	10	108	104	3	20	70-130
2-Butanone (MEK)	0.1	50	48	42	96	83	14	20	50-157
t-Amyl methyl ether	0.0	10	11	11	107	107	1	20	70-130
1,2-Dichloroethane (	0.0	10	12	11	116	113	3	20	70-130
1,1,1-Trichloroethan	0.0	10	12	11	116	113	3	20	70-130
1,1-Dichloropropene	0.0	10	11	10	107	104	3	20	70-130
Carbon tetrachloride	0.0	10	12	12	124	119	4	20	70-130
Benzene	0.0	10	11	11	108	105	3	20	70-130
Trichloroethene	0.0	10	11	11	108	105	3	20	70-130
1,2-Dichloropropane	0.0	10	10	10	100	98	2	20	70-130
Bromodichloromethane	0.0	10	11	11	115	111	3	20	70-130
Dibromomethane	0.0	10	11	11	108	105	3	20	70-130
4-Methyl-2-pentanone	0.0	50	51	55	103	110	6	20	70-130
cis-1,3-Dichloroprop	0.0	10	11	11	110	107	2	20	70-130
Toluene	0.0	10	10	10	105	101	3	20	70-130
trans-1,3-Dichloropr	0.0	10	11	10	110	102	7	20	70-130
1,1,2-Trichloroethan	0.0	10	10	10	99	96	3	20	70-130



2-Hexanone	0.1	50	43	43	87	86	1	20	66-132
1,3-Dichloropropane	0.0	10	10	10	100	96	4	20	70-130
Tetrachloroethene	0.0	10	11	11	114	110	3	20	70-130
Dibromochloromethane	0.0	10	11	11	113	105	7	20	63-142
1,2-Dibromoethane (E)	0.0	10	11	10	106	103	3	20	70-130
Chlorobenzene	0.0	10	10	10	105	103	2	20	70-130
Ethylbenzene	0.0	10	11	11	108	106	2	20	70-130
1,1,1,2-Tetrachloroe	0.0	10	11	11	111	108	2	20	70-130
m,p-Xylene	0.0	20	22	21	110	107	3	20	70-130
o-Xylene	0.0	10	11	10	107	105	2	20	70-130
Styrene	0.0	10	10	10	103	100	2	20	70-130
Isopropylbenzene	0.0	10	10	10	104	101	3	20	70-130
Bromoform	0.0	10	11	11	111	113	2	20	50-157
n-Propylbenzene	0.0	10	10	10	98	99	1	20	70-130
Bromobenzene	0.0	10	10	10	101	103	2	20	70-130
1,3,5-Trimethylbenze	0.0	10	10	10	101	105	4	20	52-150
1,1,2,2-Tetrachloroe	0.0	10	10	10	99	100	1	20	75-140
1,2,3-Trichloropropa	0.0	10	9	9	87	89	3	20	40-153
2-Chlorotoluene	0.0	10	10	10	98	99	1	20	70-130
4-Chlorotoluene	0.0	10	10	10	101	102	1	20	70-130
tert-Butylbenzene	0.0	10	10	10	100	103	4	20	70-130
1,2,4-Trimethylbenze	0.0	10	10	10	100	103	3	20	70-130
sec-Butylbenzene	0.0	10	10	10	99	99	0	20	70-130
p-Isopropyltoluene	0.0	10	10	10	103	104	1	20	70-130
1,3-Dichlorobenzene	0.0	10	10	10	101	102	1	20	70-130
1,4-Dichlorobenzene	0.0	10	10	10	102	102	1	20	70-130
1,2-Dichlorobenzene	0.0	10	10	10	102	100	2	20	70-130
1,2-Dibromo-3-chloro	0.0	10	10	9	99	94	6	20	70-130
1,2,4-Trichlorobenze	0.0	10	10	10	99	102	3	20	70-130
Hexachlorobutadiene	0.0	10	11	11	110	109	1	20	70-130
Naphthalene	0.0	10	9	9	89	92	3	20	61-133
1,2,3-Trichlorobenze	0.0	10	10	10	96	97	2	20	69-143

# - Fails Limit Check

072823vms13.M

Fri Aug 11 09:37:29 2023

Spike Recovery and RPD Summary Report - WATER

Method : Y:\Methods\Inst13\072823vms13.M (RTE Integrator)  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration

Non-Spiked Sample: 081122.D

Spike Sample	Spike Duplicate Sample
File ID : 081111.D	081112.D
Sample : 308175-05 ms	308175-05 msd
Acq Time: 11 Aug 2023 09:47 am	11 Aug 2023 10:10 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Ethanol	0.0	0	0	0	0	0	99#	20	0-300
Dichlorodifluorometh	0.0	10	9	9	90	90	0	20	49-149
Chloromethane	0.4	10	10	10	95	95	1	20	34-143
Vinyl chloride	0.0	10	10	10	97	100	4	20	43-149
Bromomethane	0.1	10	13	14	128	142	11	20	28-182
Chloroethane	0.0	10	11	11	111	113	2	20	59-157
Trichlorofluorometha	0.0	10	10	10	104	98	6	20	59-141
2-Propanol	0.0	0	0	0	0	0	99#	20	0-300
Acetone	1.3	50	35	36	68	70	2	20	20-139
1,1-Dichloroethene	0.0	10	11	11	107	108	2	20	67-138
Hexane	0.0	10	11	11	108	109	1	20	50-161
Methylene chloride	0.3	10	10	11	101	103	2	20	29-192
t-Butyl alcohol (TBA	0.0	50	55	54	110	108	1	20	46-208
Methyl t-butyl ether	0.0	10	10	11	104	106	2	20	70-130
trans-1,2-Dichloroet	0.0	10	11	11	108	110	2	20	70-130
Diisopropyl ether (D	0.0	10	10	12	104	118	13	20	70-130
1,1-Dichloroethane	0.0	10	10	10	102	104	3	20	70-130
Ethyl t-butyl ether	0.0	10	11	11	113	111	1	20	70-128
2,2-Dichloropropane	0.0	10	11	13	115	133	15	20	71-148
cis-1,2-Dichloroethe	0.2	10	11	11	103	105	2	20	70-130
Chloroform	0.0	10	10	11	102	105	3	20	70-130
2-Butanone (MEK)	0.2	50	44	50	87	99	13	20	50-157
t-Amyl methyl ether	0.0	10	11	11	108	110	1	20	70-130
1,2-Dichloroethane (	0.0	10	11	11	107	110	2	20	70-130
1,1,1-Trichloroethan	0.0	10	11	11	106	108	2	20	70-130
1,1-Dichloropropene	0.0	10	11	11	106	110	3	20	70-130
Carbon tetrachloride	0.0	10	11	11	108	111	3	20	70-130
Benzene	0.0	10	11	11	107	110	2	20	70-130
Trichloroethene	0.2	10	11	11	103	107	4	20	70-130
1,2-Dichloropropane	0.0	10	10	11	102	106	4	20	70-130
Bromodichloromethane	0.0	10	11	11	105	108	3	20	70-130
Dibromomethane	0.0	10	10	11	104	106	2	20	70-130
4-Methyl-2-pentanone	0.0	50	52	55	103	111	7	20	70-130
cis-1,3-Dichloroprop	0.0	10	11	11	107	114	6	20	70-130
Toluene	0.0	10	11	11	105	107	2	20	70-130
trans-1,3-Dichloropr	0.0	10	11	11	108	106	2	20	70-130
1,1,2-Trichloroethan	0.0	10	10	10	100	101	1	20	70-130

2-Hexanone	0.0	50	45	47	90	93	4	20	66-132
1,3-Dichloropropane	0.0	10	10	10	98	99	1	20	70-130
Tetrachloroethene	28.9	10	38	39	95	101	6	20	70-130
Dibromochloromethane	0.0	10	11	11	106	106	0	20	63-142
1,2-Dibromoethane (E)	0.0	10	10	10	105	104	0	20	70-130
Chlorobenzene	0.0	10	10	10	103	104	1	20	70-130
Ethylbenzene	0.0	10	11	11	107	108	1	20	70-130
1,1,1,2-Tetrachloroe	0.0	10	10	11	102	109	6	20	70-130
m,p-Xylene	0.0	20	22	22	108	110	2	20	70-130
o-Xylene	0.0	10	11	11	107	108	2	20	70-130
Styrene	0.0	10	10	10	103	104	1	20	70-130
Isopropylbenzene	0.0	10	10	11	104	105	1	20	70-130
Bromoform	0.0	10	11	11	106	106	0	20	50-157
n-Propylbenzene	0.0	10	10	10	100	104	4	20	70-130
Bromobenzene	0.0	10	10	10	102	104	2	20	70-130
1,3,5-Trimethylbenze	0.0	10	10	11	104	108	4	20	52-150
1,1,2,2-Tetrachloroe	0.0	10	10	11	101	108	6	20	75-140
1,2,3-Trichloropropa	0.0	10	9	9	88	92	5	20	40-153
2-Chlorotoluene	0.0	10	10	10	100	103	3	20	70-130
4-Chlorotoluene	0.0	10	10	11	100	105	5	20	70-130
tert-Butylbenzene	0.0	10	10	11	102	108	6	20	70-130
1,2,4-Trimethylbenze	0.0	10	10	11	101	105	4	20	70-130
sec-Butylbenzene	0.0	10	10	11	101	108	6	20	70-130
p-Isopropyltoluene	0.0	10	11	11	105	109	4	20	70-130
1,3-Dichlorobenzene	0.0	10	10	11	104	108	4	20	70-130
1,4-Dichlorobenzene	0.0	10	10	11	101	106	4	20	70-130
1,2-Dichlorobenzene	0.0	10	10	11	103	107	3	20	70-130
1,2-Dibromo-3-chloro	0.0	10	9	10	94	98	4	20	70-130
1,2,4-Trichlorobenze	0.0	10	10	11	104	108	4	20	70-130
Hexachlorobutadiene	0.0	10	11	11	107	108	1	20	70-130
Naphthalene	0.0	10	10	10	98	101	2	20	61-133
1,2,3-Trichlorobenze	0.0	10	10	11	101	106	5	20	69-143

# - Fails Limit Check

072823vms13.M

Mon Aug 14 07:59:32 2023

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081104.D  
 Acq On : 11 Aug 2023 07:04 am  
 Operator : MD  
 Sample : 03-1819 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS13

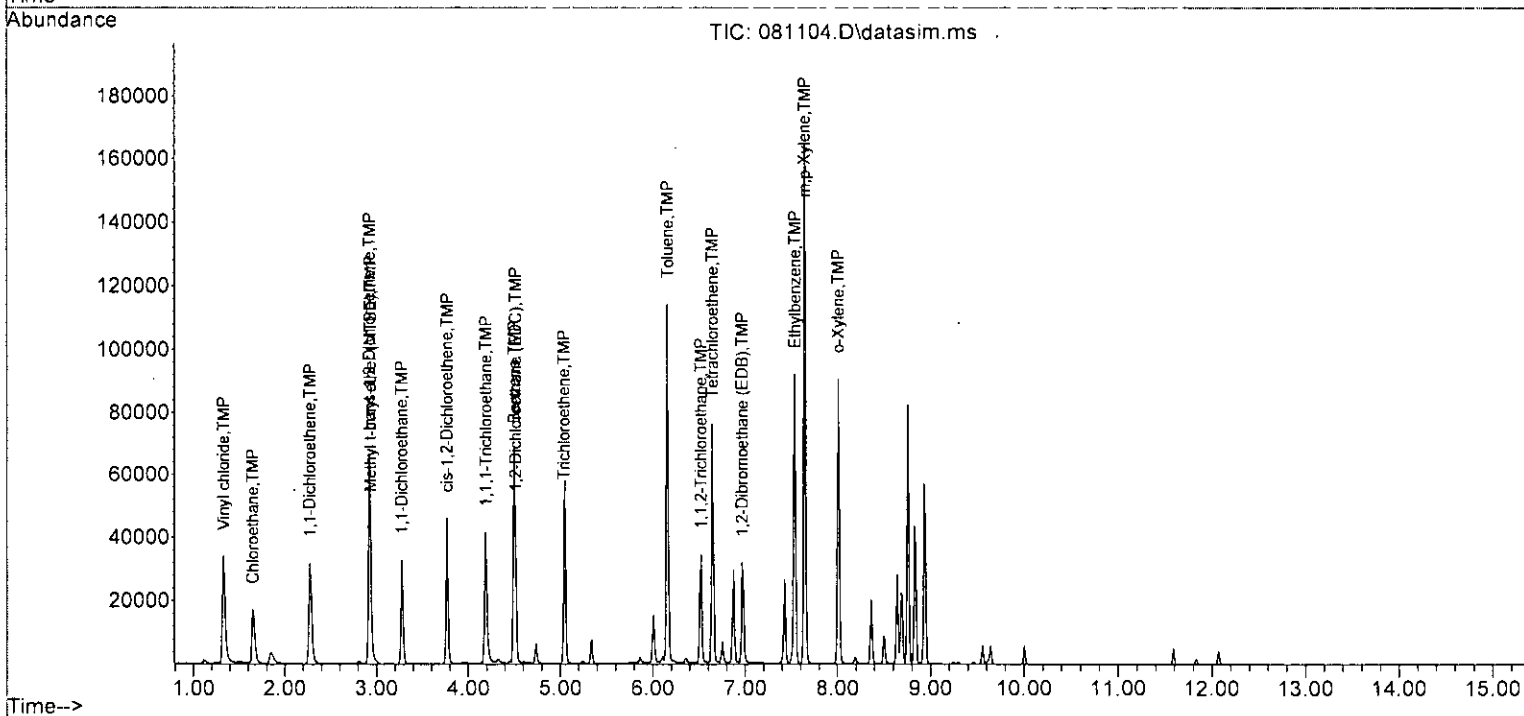
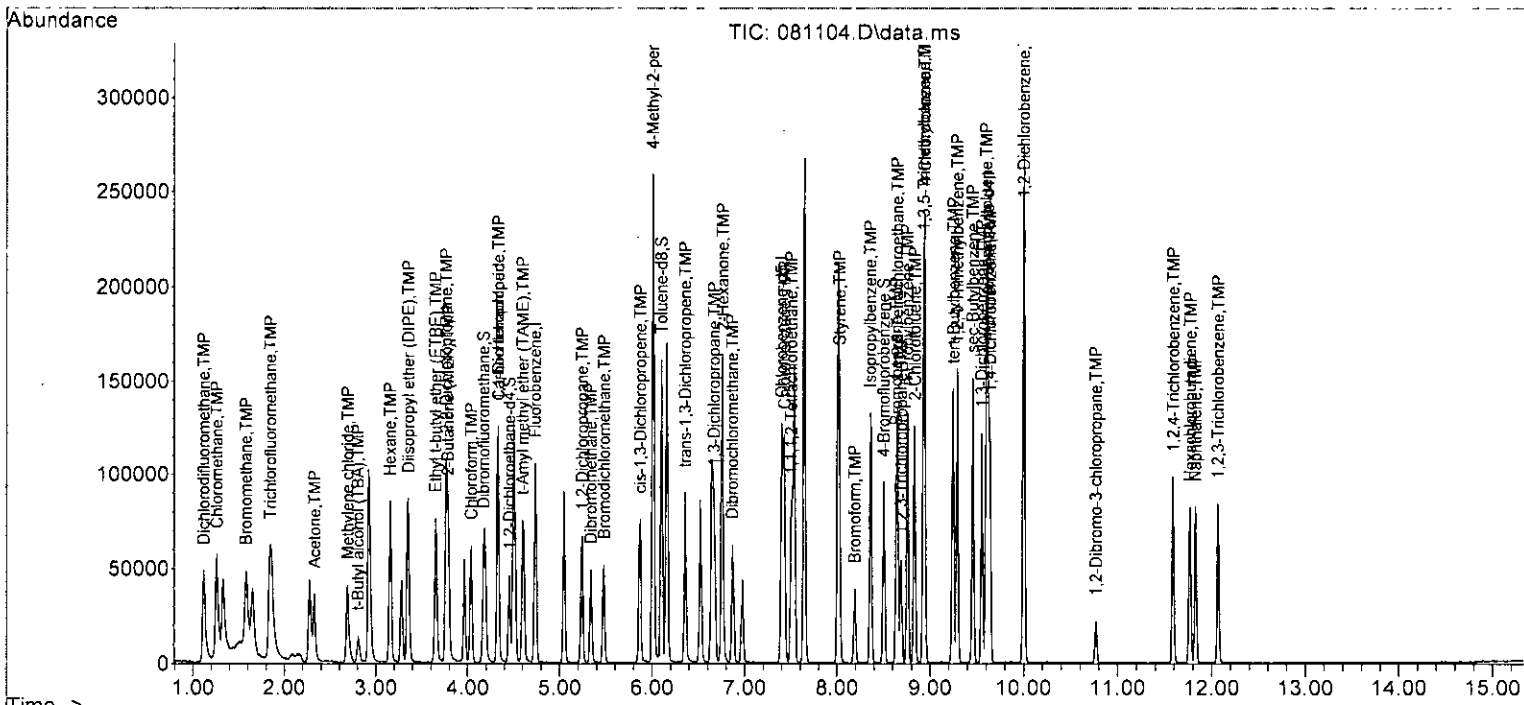
Quant Time: Aug 11 09:33:59 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	21206	51.441	ppb	91
38) cis-1,3-Dichloropropene	5.87	75	36082	10.994	ppb	98
40] Toluene	6.16	92	60838	10.471	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	34237	11.019	ppb	97
42] 1,1,2-Trichloroethane	6.52	83	18858	9.894	ppb #	69
43) 2-Hexanone	6.76	43	115193	43.365	ppb	97
44) 1,3-Dichloropropane	6.67	76	33593	9.971	ppb	95
45] Tetrachloroethene	6.64	164	26137	11.367	ppb	96
46) Dibromochloromethane	6.87	129	28807	11.253	ppb	98
47] 1,2-Dibromoethane (EDB)	6.97	107	26262	10.620	ppb	99
48) Chlorobenzene	7.43	112	57516	10.487	ppb	96
49] Ethylbenzene	7.54	91	94339	10.816	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.50	131	21480	11.077	ppb	98
51] m,p-Xylene	7.64	106	74852	21.935	ppb	99
52] o-Xylene	8.01	106	35891	10.676	ppb	100
53) Styrene	8.03	104	54949	10.288	ppb	100
54) Isopropylbenzene	8.36	105	83717	10.394	ppb	98
55) Bromoform	8.19	173	15656	11.121	ppb	98
58) n-Propylbenzene	8.75	91	99927	9.792	ppb	99
59) Bromobenzene	8.64	156	25184	10.078	ppb	90
60) 1,3,S-Trimethylbenzene	8.93	105	71311	10.057	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.65	83	23392	9.932	ppb	95
62) 1,2,3-Trichloropropane	8.69	75	17497	8.668	ppb	98
63) 2-Chlorotoluene	8.84	91	58890	9.855	ppb	100
64) 4-Chlorotoluene	8.94	91	69909	10.093	ppb	99
65) tert-Butylbenzene	9.25	119	64525	9.955	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	74990	10.000	ppb	99
67) sec-Butylbenzene	9.45	105	94257	9.882	ppb	100
68) p-Isopropyltoluene	9.60	119	81975	10.296	ppb	100
69) 1,3-Dichlorobenzene	9.55	146	44833	10.123	ppb	95
70) 1,4-Dichlorobenzene	9.64	146	46077	10.177	ppb	96
71) 1,2-Dichlorobenzene	10.00	146	42973	10.213	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	4446	9.940	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	27515	9.879	ppb	98
74) Hexachlorobutadiene	11.77	225	16443	10.968	ppb	96
75) Naphthalene	11.82	128	58661	8.944	ppb	99
76) 1,2,3-Trichlorobenzene	12.07	180	24318	9.599	ppb	98

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081104.D  
 Acq On : 11 Aug 2023 07:04 am  
 Operator : MD  
 Sample : 03-1819 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:33:59 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081105.D  
 Acq On : 11 Aug 2023 07:27 am  
 Operator : MD  
 Sample : 03-1819 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:34:03 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	73586	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	60189	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	30139	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	21106	10.570	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.70%	
30) 1,2-Dichloroethane-d4	4.45	102	4348	9.833	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	98.30%	
35) Toluene-d8	6.10	98	85939	10.512	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	105.10%	
57) 4-Bromofluorobenzene	8.50	95	25307	9.323	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	93.20%	
Target Compounds						
2) Ethanol	2.33	45	305	No Calib		Qvalue
4) Dichlorodifluoromethane	1.11	85	64528	9.678	ppb	94
5) Chloromethane	1.25	50	66015	9.453	ppb	95
6] Vinyl chloride	1.32	62	54192	9.580	ppb	99
7) Bromomethane	1.57	94	34545	12.461	ppb	86
8] Chloroethane	1.65	64	26236	11.052	ppb	98
9) Trichlorofluoromethane	1.84	101	99652	11.310	ppb	96
10) 2-Propanol	2.33	45	305	No Calib	#	
11) Acetone	2.32	58	9328	32.022	ppb	88
12] 1,1-Dichloroethene	2.27	96	21114	10.608	ppb	94
13) Hexane	3.16	57	29867	10.307	ppb	99
14) Methylene chloride	2.68	84	18630	10.394	ppb	96
15) t-Butyl alcohol (TBA)	2.81	59	13028	54.468	ppb	95
16] Methyl t-butyl ether (...)	2.92	73	46788	10.136	ppb	98
17] trans-1,2-Dichloroethene	2.91	96	20156	10.752	ppb	95
18) Diisopropyl ether (DIPE)	3.34	45	68608	9.960	ppb	96
19] 1,1-Dichloroethane	3.27	63	35695	9.982	ppb	99
20) Ethyl t-butyl ether (E...)	3.65	87	20623	10.627	ppb	98
21) 2,2-Dichloropropane	3.76	77	23891	12.083	ppb	96
22] cis-1,2-Dichloroethene	3.77	96	22601	10.636	ppb	95
23) Chloroform	4.04	83	34886	10.439	ppb	99
24) 2-Butanone (MEK)	3.78	43	59069	41.679	ppb	99
25) t-Amyl methyl ether (T...)	4.60	73	46778	10.705	ppb	97
26] 1,2-Dichloroethane (EDC)	4.52	62	31391	11.252	ppb	99
27] 1,1,1-Trichloroethane	4.19	97	33661	11.274	ppb	98
28) 1,1-Dichloropropene	4.32	75	26219	10.379	ppb	96
29) Carbon tetrachloride	4.32	117	30944	11.863	ppb	97
31] Benzene	4.50	78	75026	10.500	ppb	99
32] Trichloroethene	5.04	95	23018	10.502	ppb	95
33) 1,2-Dichloropropane	5.23	63	19419	9.797	ppb	99
34) Bromodichloromethane	5.47	83	26821	11.145	ppb	97
36) Dibromomethane	5.34	93	13435	10.521	ppb	98

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081105.D  
 Acq On : 11 Aug 2023 07:27 am  
 Operator : MD  
 Sample : 03-1819 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

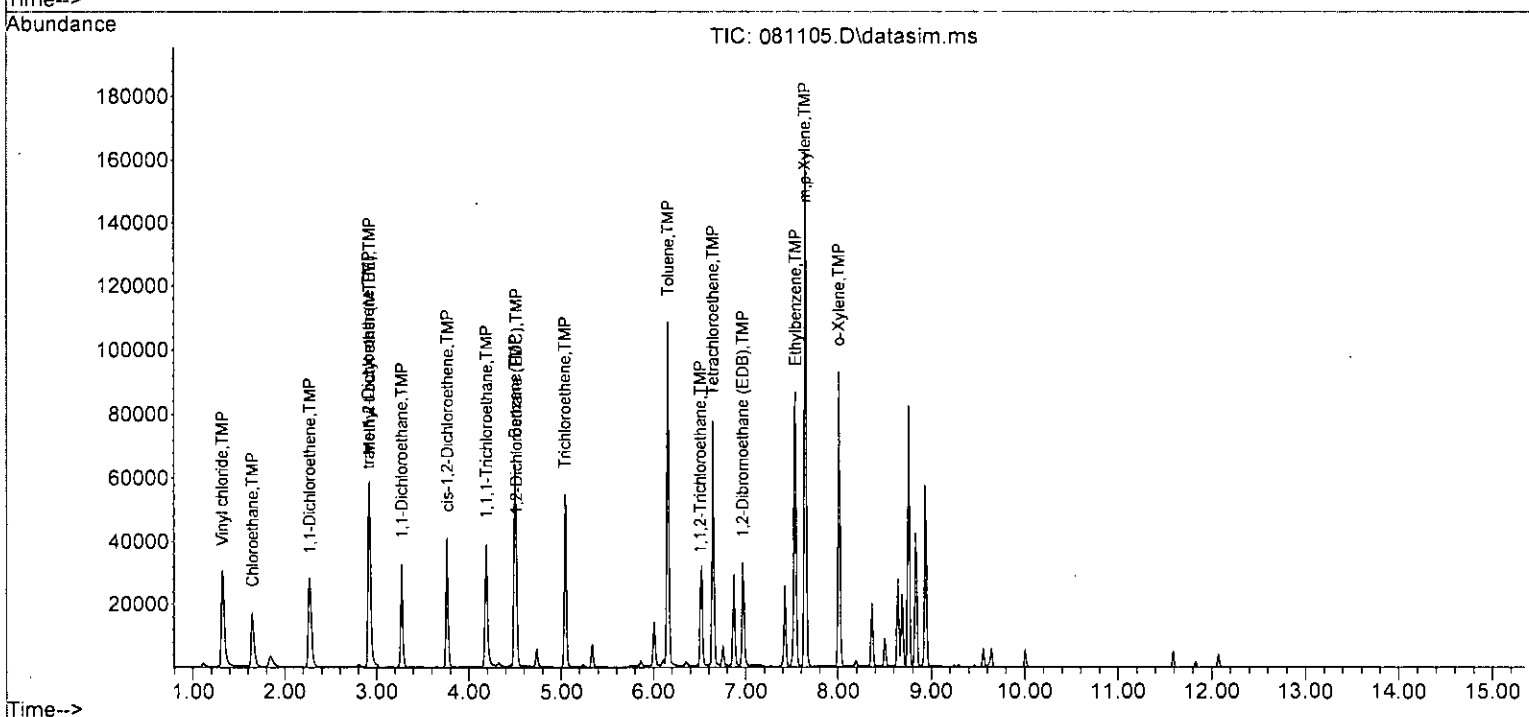
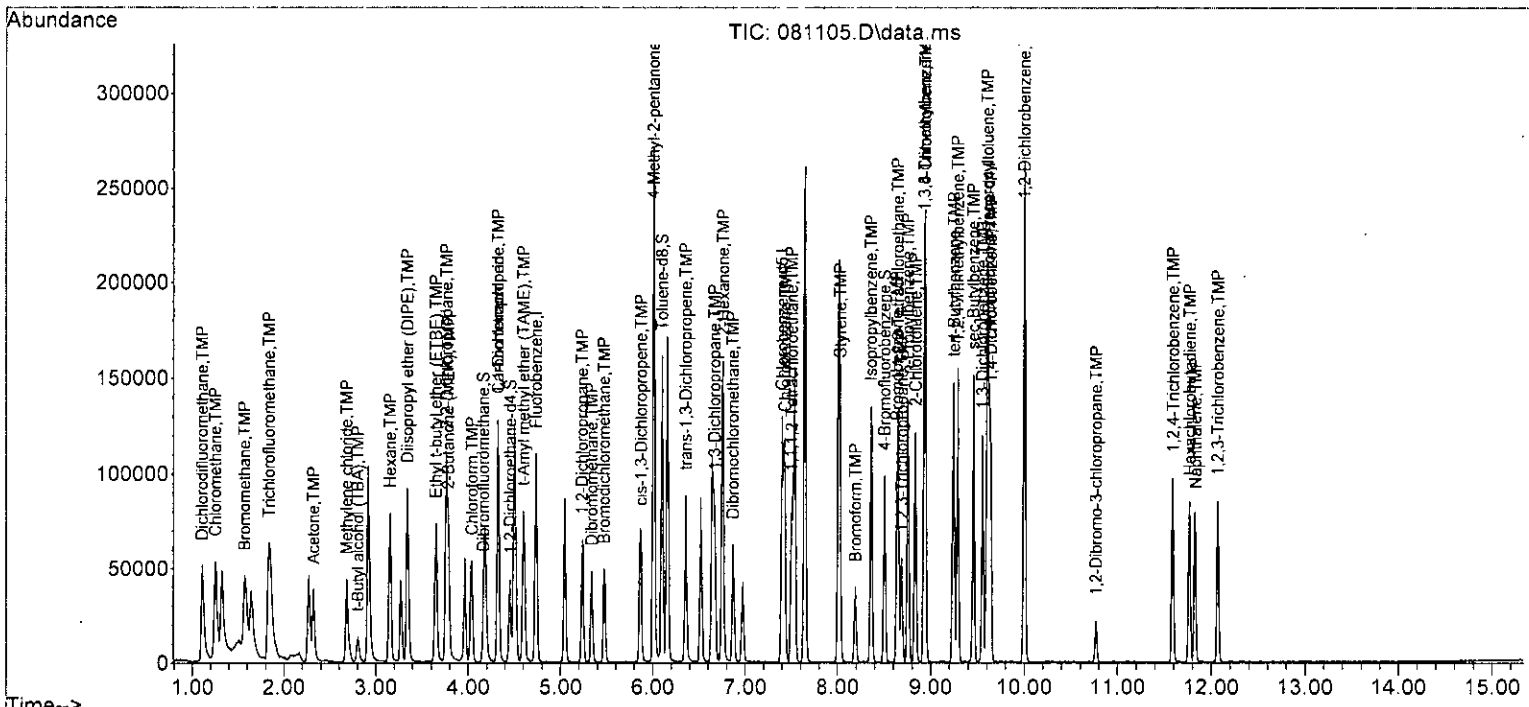
Quant Time: Aug 11 09:34:03 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	22754	54.773	ppb	88
38) cis-1,3-Dichloropropene	5.87	75	35561	10.752	ppb	92
40] Toluene	6.16	92	60037	10.116	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	32468	10.230	ppb	96
42] 1,1,2-Trichloroethane	6.51	83	18786	9.650	ppb	97
43) 2-Hexanone	6.76	43	116753	43.030	ppb	96
44) 1,3-Dichloropropane	6.67	76	33038	9.601	ppb	99
45] Tetrachloroethene	6.64	164	25863	11.011	ppb	98
46) Dibromochloromethane	6.87	129	27509	10.520	ppb	91
47] 1,2-Dibromoethane (EDB)	6.97	107	25954	10.274	ppb	98
48) Chlorobenzene	7.43	112	57575	10.278	ppb	97
49] Ethylbenzene	7.54	91	94308	10.585	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	21414	10.811	ppb	97
51] m,p-Xylene	7.64	106	74358	21.332	ppb	99
52] o-Xylene	8.01	106	35908	10.457	ppb	99
53) Styrene	8.03	104	54828	10.049	ppb	99
54) Isopropylbenzene	8.36	105	83319	10.128	ppb	99
55) Bromoform	8.19	173	16291	11.329	ppb	99
58) n-Propylbenzene	8.75	91	99154	9.893	ppb	97
59) Bromobenzene	8.64	156	25326	10.318	ppb	88
60) 1,3,5-Trimethylbenzene	8.93	105	72935	10.472	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.65	83	23103	9.987	ppb	97
62) 1,2,3-Trichloropropane	8.69	75	17724	8.939	ppb	99
63) 2-Chlorotoluene	8.84	91	58232	9.921	ppb	97
64) 4-Chlorotoluene	8.94	91	69174	10.168	ppb	98
65) tert-Butylbenzene	9.25	119	65698	10.319	ppb	98
66) 1,2,4-Trimethylbenzene	9.29	105	75727	10.281	ppb	98
67) sec-Butylbenzene	9.45	105	92475	9.871	ppb	97
68) p-Isopropyltoluene	9.61	119	81140	10.376	ppb	97
69) 1,3-Dichlorobenzene	9.55	146	44441	10.217	ppb	96
70) 1,4-Dichlorobenzene	9.64	146	45520	10.236	ppb	96
71) 1,2-Dichlorobenzene	10.00	146	41390	10.015	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	4122	9.382	ppb	88
73) 1,2,4-Trichlorobenzene	11.59	180	27868	10.187	ppb	99
74) Hexachlorobutadiene	11.77	225	16047	10.898	ppb	96
75) Naphthalene	11.83	128	59621	9.255	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	24253	9.747	ppb	94

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081105.D  
 Acq On : 11 Aug 2023 07:27 am  
 Operator : MD  
 Sample : 03-1819 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:34:03 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081107.D  
 Acq On : 11 Aug 2023 08:14 am  
 Operator : MD  
 Sample : 03-1819 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

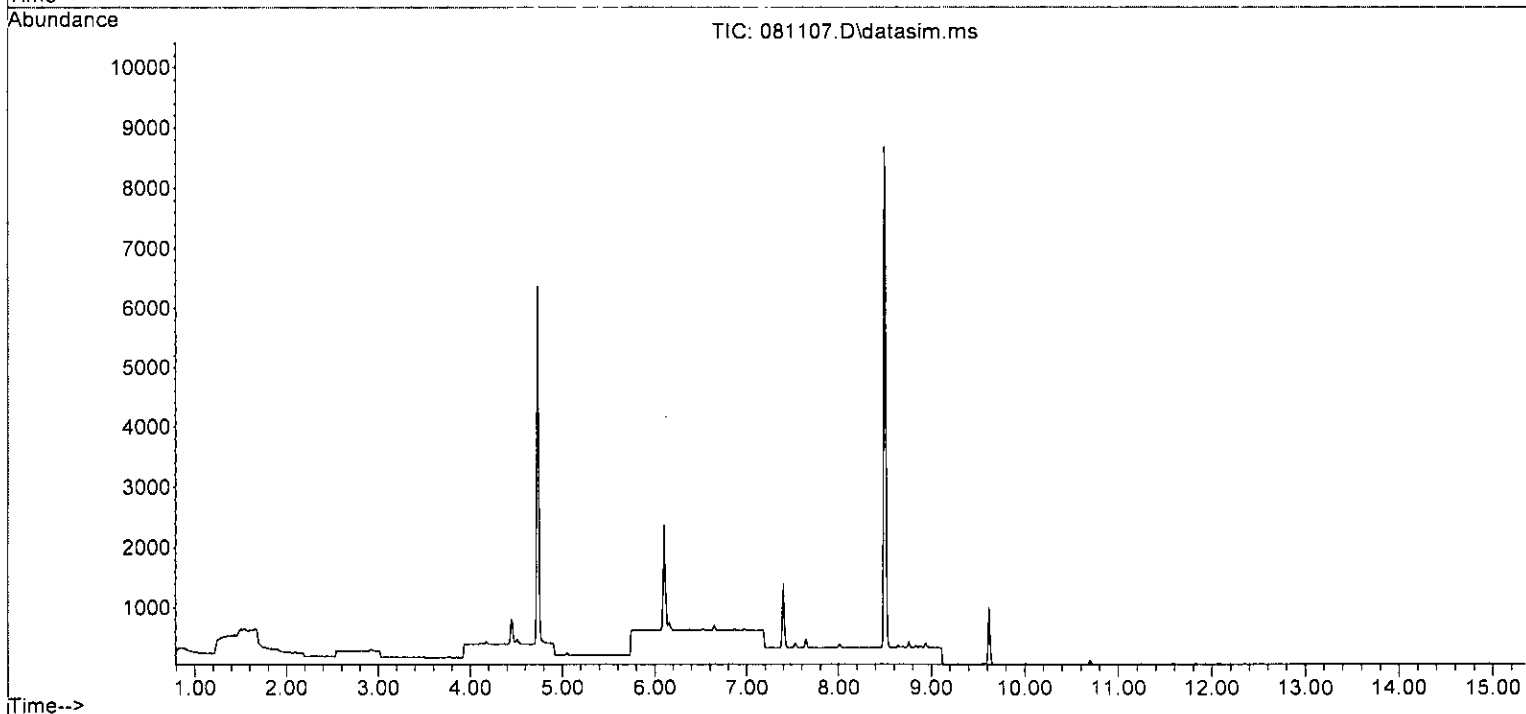
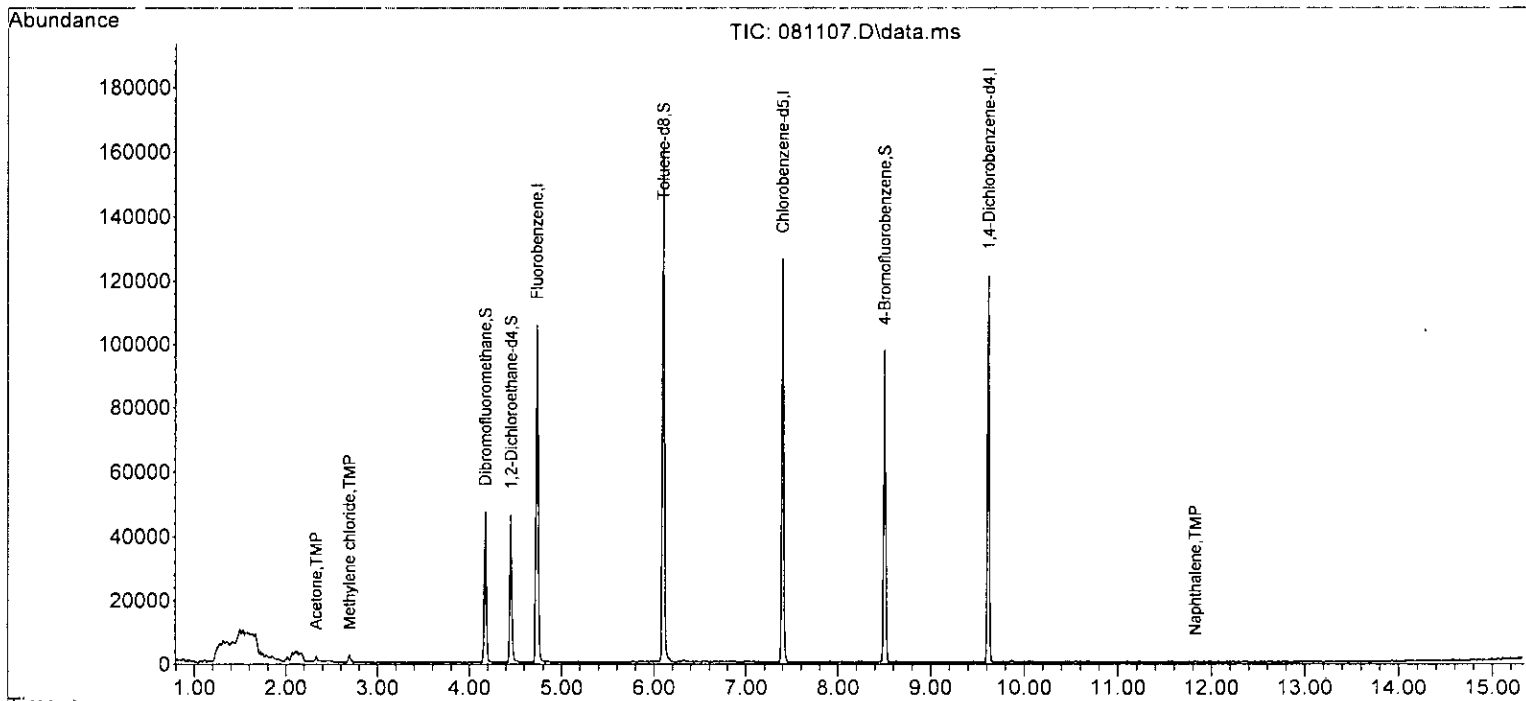
Quant Time: Aug 11 09:34:07 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

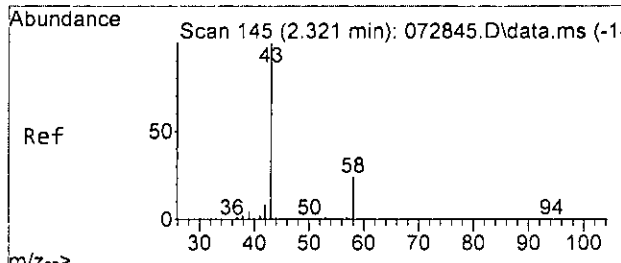
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	83632	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	60629	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	29808	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	22107	9.742	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.40%	
30) 1,2-Dichloroethane-d4	4.45	102	4784	9.520	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	95.20%	
35) Toluene-d8	6.10	98	85192	9.168	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	91.70%	
57) 4-Bromofluorobenzene	8.50	95	25724	9.581	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	95.80%	
Target Compounds						
11) Acetone	2.33	58	350	1.057	ppb	45
14) Methylene chloride	2.69	84	994	0.488	ppb	94
26] 1,2-Dichloroethane (EDC)	4.52	62	73	Below Cal		90
31] Benzene	4.50	78	36	Below Cal		93
40] Toluene	6.16	92	73	Below Cal		95
45] Tetrachloroethene	6.65	164	29	Below Cal		84
49] Ethylbenzene	7.54	91	86	Below Cal		94
51] m,p-Xylene	7.64	106	72	Below Cal		99
52] o-Xylene	8.01	106	29	Below Cal		86
75) Naphthalene	11.82	128	238	0.037	ppb	68

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
Data File : 081107.D  
Acq On : 11 Aug 2023 08:14 am  
Operator : MD  
Sample : 03-1819 mb  
Misc : water  
ALS Vial : 4 Sample Multiplier: 1  
InstName : GCMS13

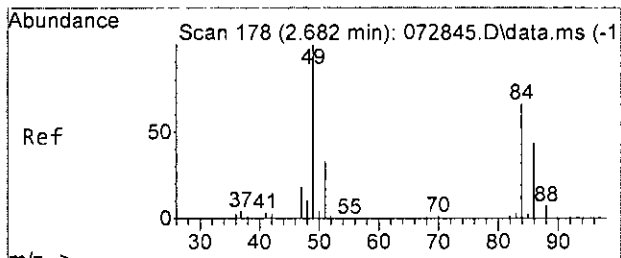
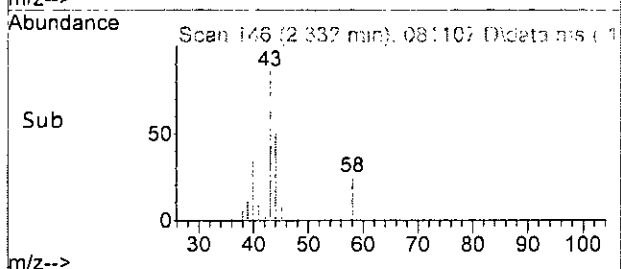
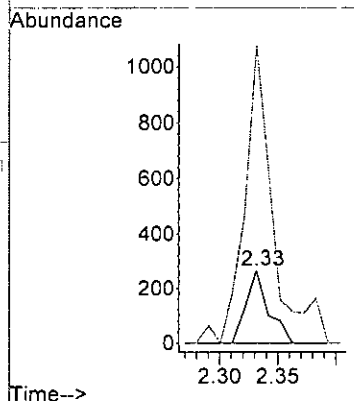
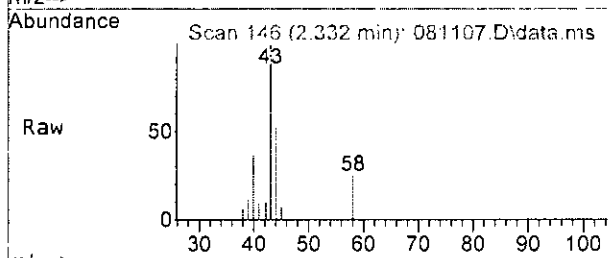
Quant Time: Aug 11 09:34:07 2023  
Quant Method : Y:\Methods\Inst13\072823vms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Sat Jul 29 09:22:43 2023  
Response via : Initial Calibration  
DataAcq Meth:VM040623.M





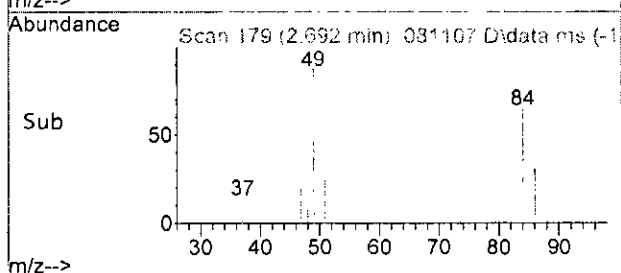
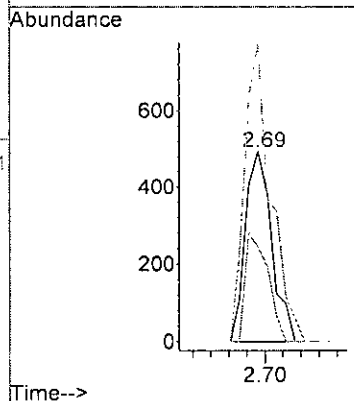
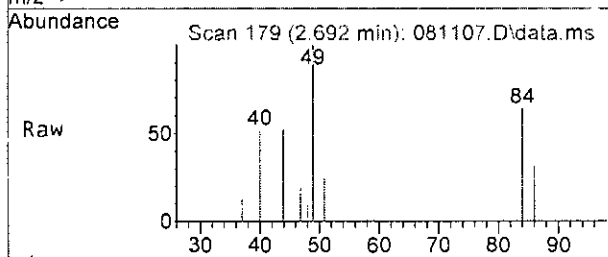
#11  
 Acetone  
 Concen: 1.057 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 081107.D  
 Acq: 11 Aug 2023 08:14 am

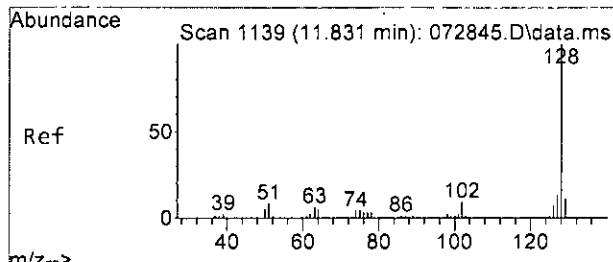
Tgt Ion: 58 Resp: 350  
 Ion Ratio Lower Upper  
 58 100  
 43 523.1 363.1 423.1#



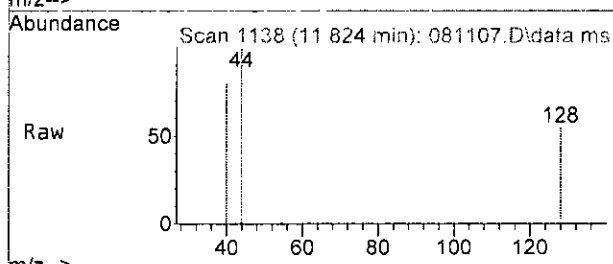
#14  
 Methylene chloride  
 Concen: 0.488 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 081107.D  
 Acq: 11 Aug 2023 08:14 am

Tgt Ion: 84 Resp: 994  
 Ion Ratio Lower Upper  
 84 100  
 86 49.5 29.1 89.1  
 49 157.2 122.1 182.1



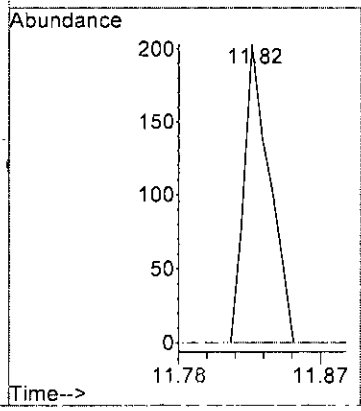
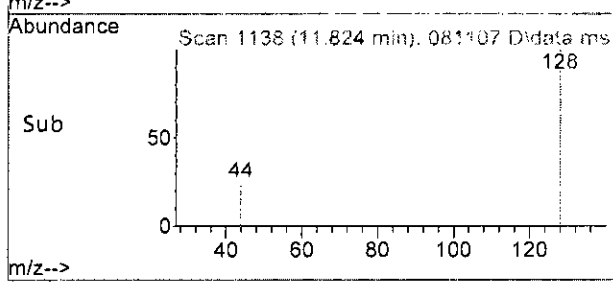


#75  
 Naphthalene  
 Concen: 0.037 ppb  
 RT: 11.82 min Scan# 1138  
 Delta R.T. -0.007 min  
 Lab File: 081107.D  
 Acq: 11 Aug 2023 08:14 am



Tgt Ion: 128 Resp: 238

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	40.8
127	0.0	0.0	43.7



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081107.D  
 Acq On : 11 Aug 2023 08:14 am  
 Operator : MD  
 Sample : 03-1819 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 11 09:34:07 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	83632	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	60629	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	29808	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	22107	9.742	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.40%		
30) 1,2-Dichloroethane-d4	4.45	102	4784	9.520	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	95.20%		
35) Toluene-d8	6.10	98	85192	9.168	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	91.70%		
57) 4-Bromofluorobenzene	8.50	95	25724	9.581	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	95.80%		
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	129	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	1401	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D. d			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.34	45	129	No Calib	#		
11) Acetone	2.33	58	350	1.057	ppb #	45	
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.69	84	994	0.488	ppb	94	
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.80	77	32	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.80	43	89	N.D.			
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	73	Below Cal		90	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	36	Below Cal		93	
32) Trichloroethene	0.00		0	N.D. d			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081107.D  
 Acq On : 11 Aug 2023 08:14 am  
 Operator : MD  
 Sample : 03-1819 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

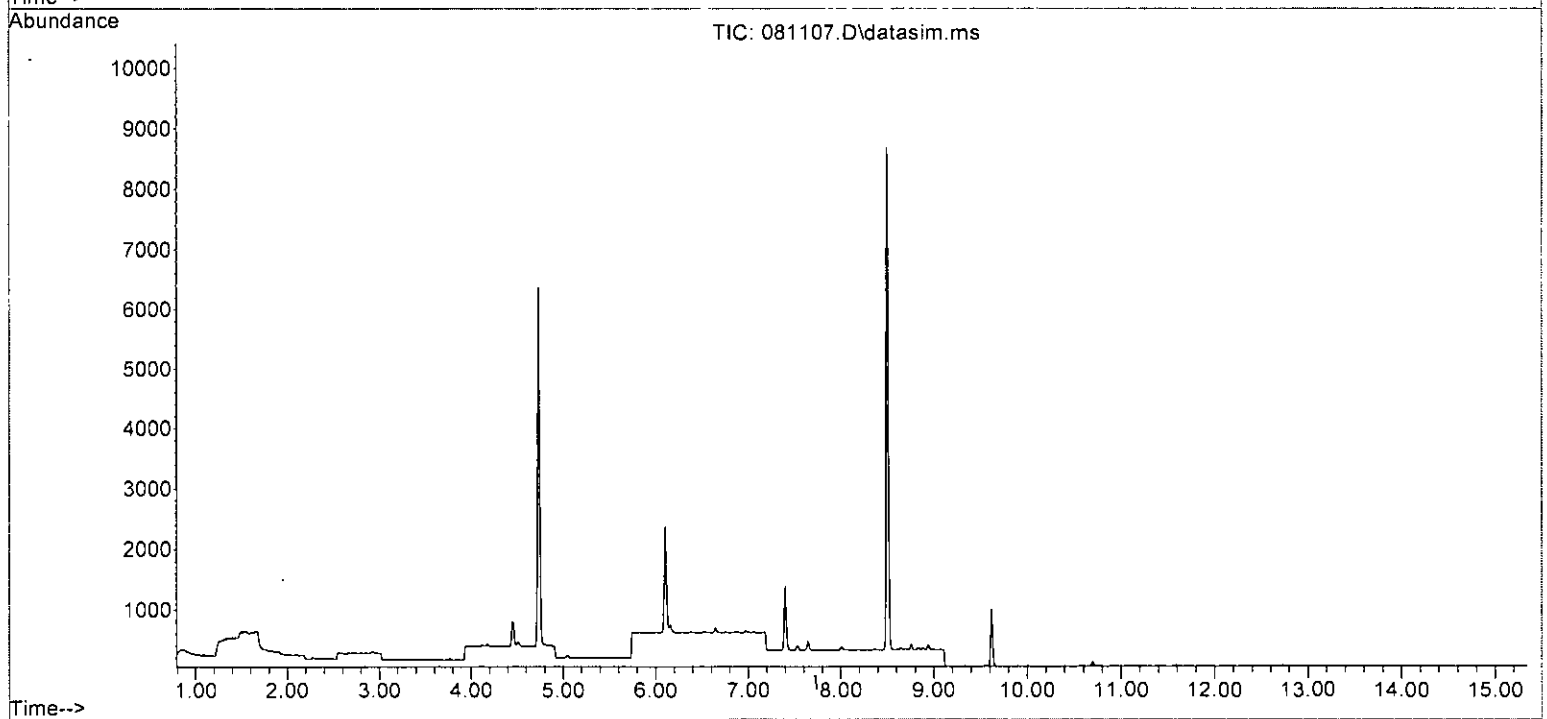
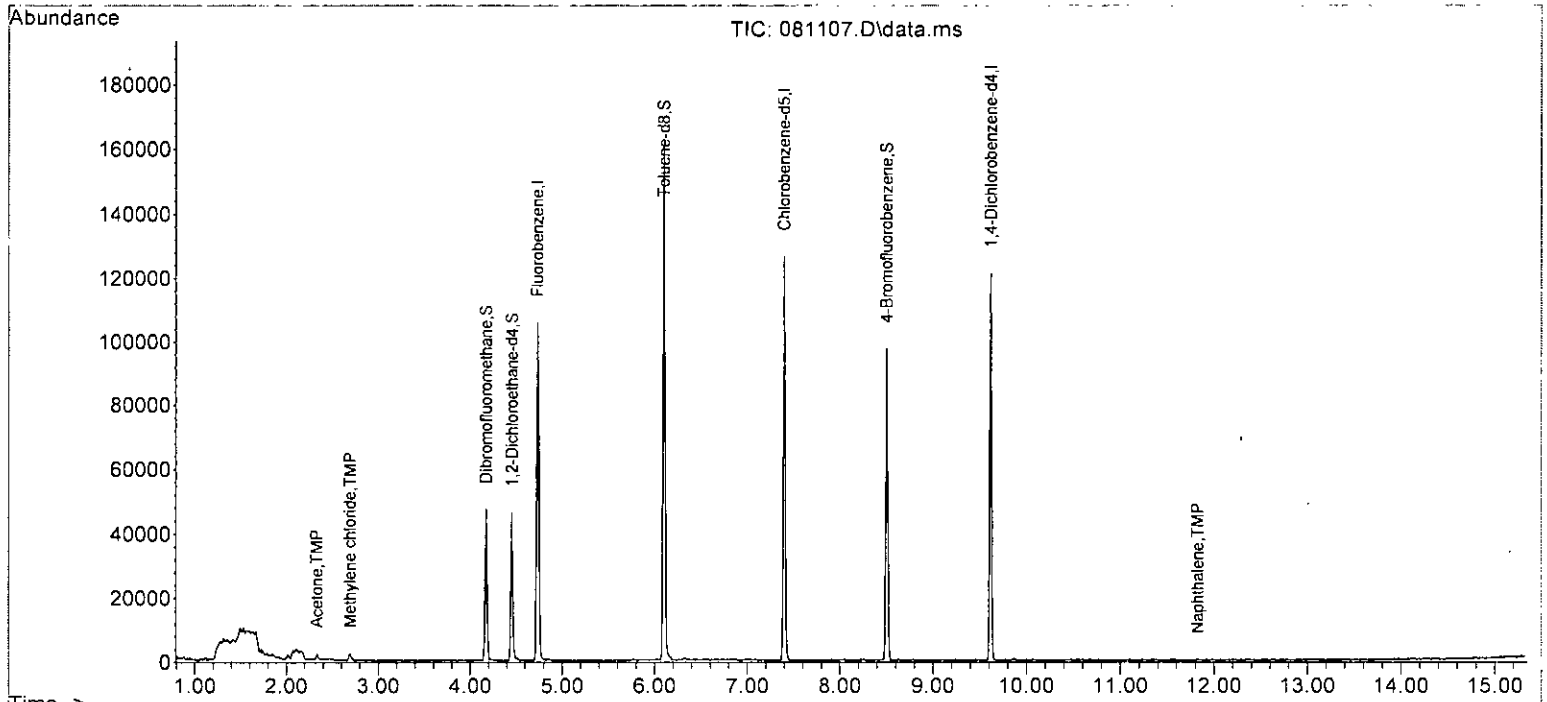
Quant Time: Aug 11 09:34:07 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	5.86	75	94		N.D.	
40] Toluene	6.16	92	73	Below Cal		95
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.52	83	26		N.D.	
43) 2-Hexanone	6.83	43	238		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	29	Below Cal		84
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	86	Below Cal		94
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	72	Below Cal		99
52] o-Xylene	8.01	106	29	Below Cal		86
53) Styrene	8.03	104	37		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.76	91	83		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.76	91	83		N.D.	
64) 4-Chlorotoluene	8.76	91	83		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.30	105	91		N.D.	
67) sec-Butylbenzene	9.45	105	93		N.D.	
68) p-Isopropyltoluene	9.61	119	115		N.D.	
69) 1,3-Dichlorobenzene	9.63	146	72		N.D.	
70) 1,4-Dichlorobenzene	9.63	146	72		N.D.	
71) 1,2-Dichlorobenzene	10.00	146	30		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.82	128	238	0.037 ppb		68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081107.D  
 Acq On : 11 Aug 2023 08:14 am  
 Operator : MD  
 Sample : 03-1819 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

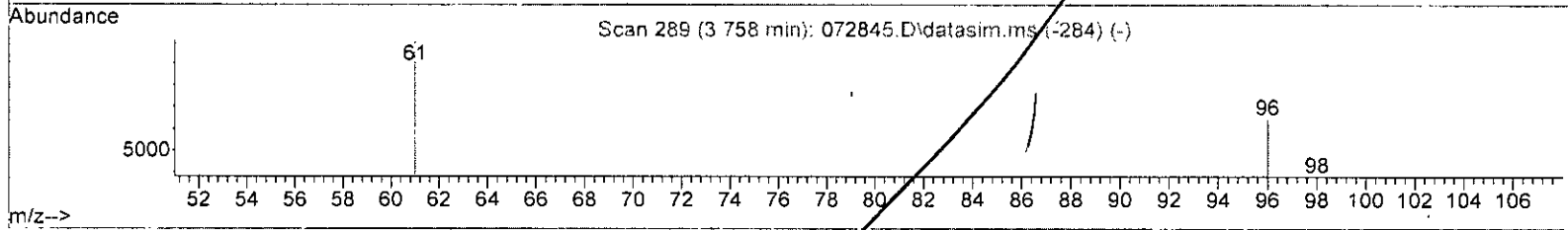
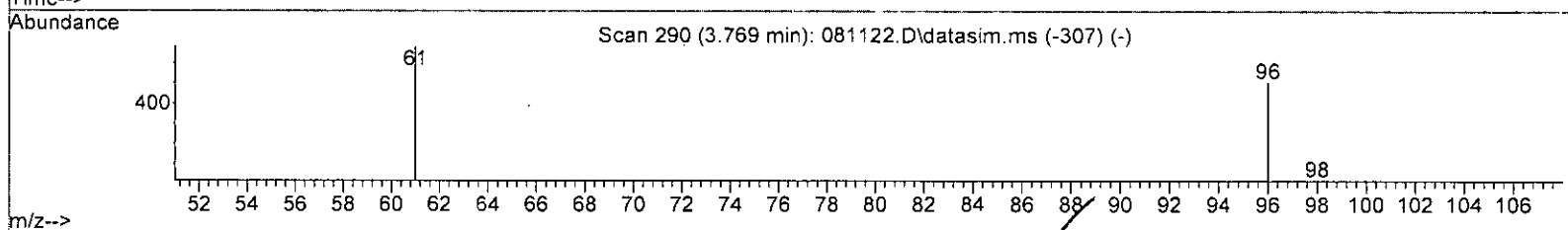
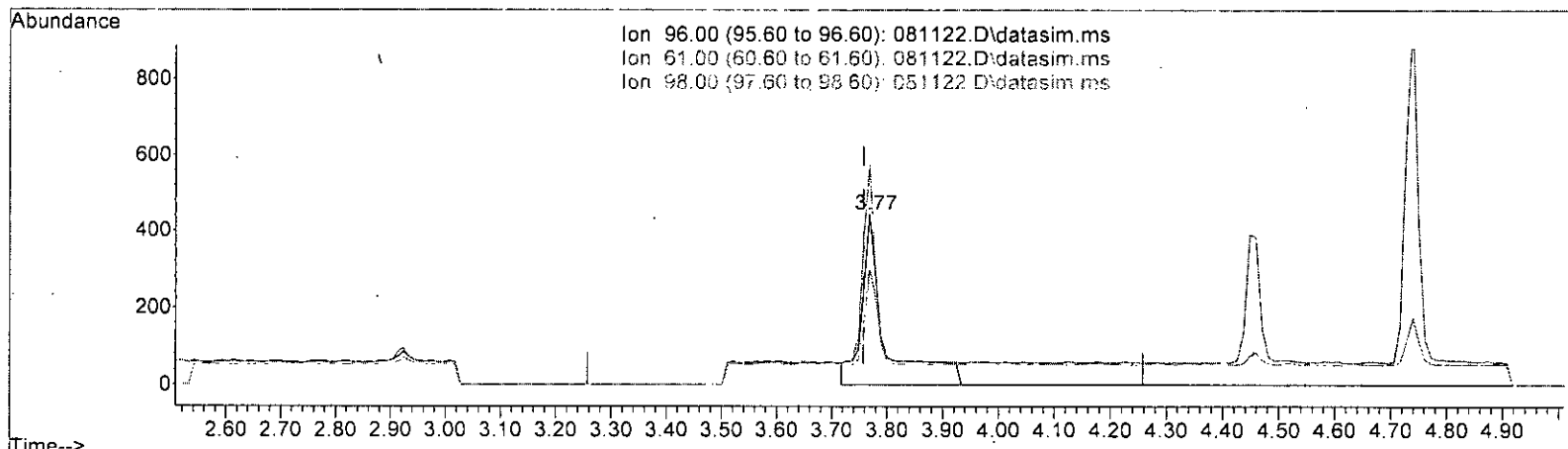
Quant Time: Aug 11 09:34:07 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081122.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *MD 8/14*

3.769min (+ 0.011) 0.506 ppb

response 1308

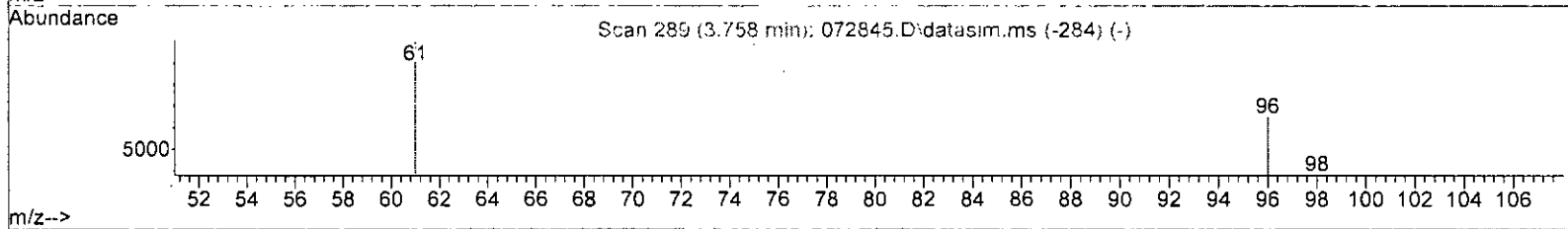
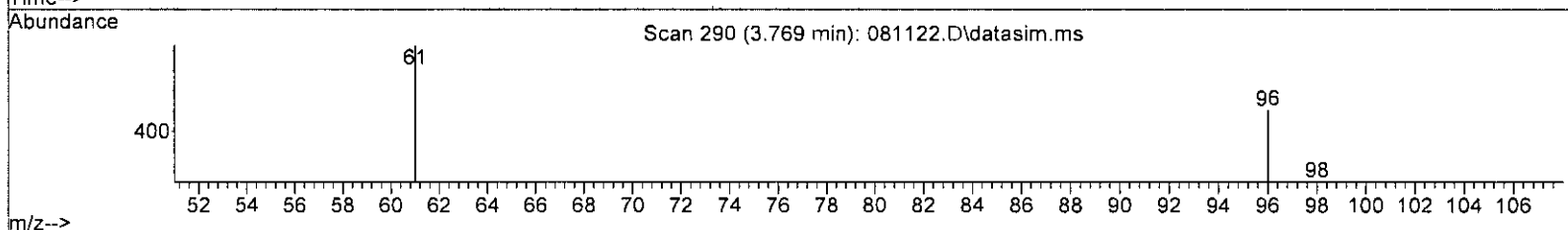
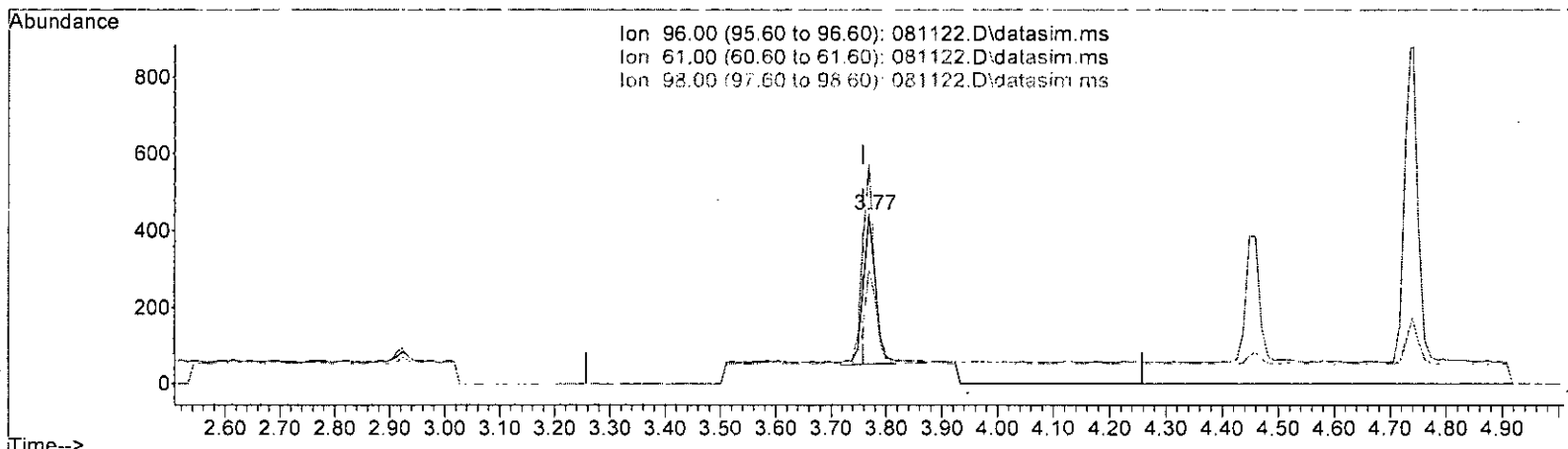
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	142.00	116.06
98.00	68.60	56.11
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081122.D\data.ms *u 8/14*

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

3.769min (+ 0.011) 0.245 ppb m

response	634	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	142.00	129.19
98.00	68.60	67.87
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

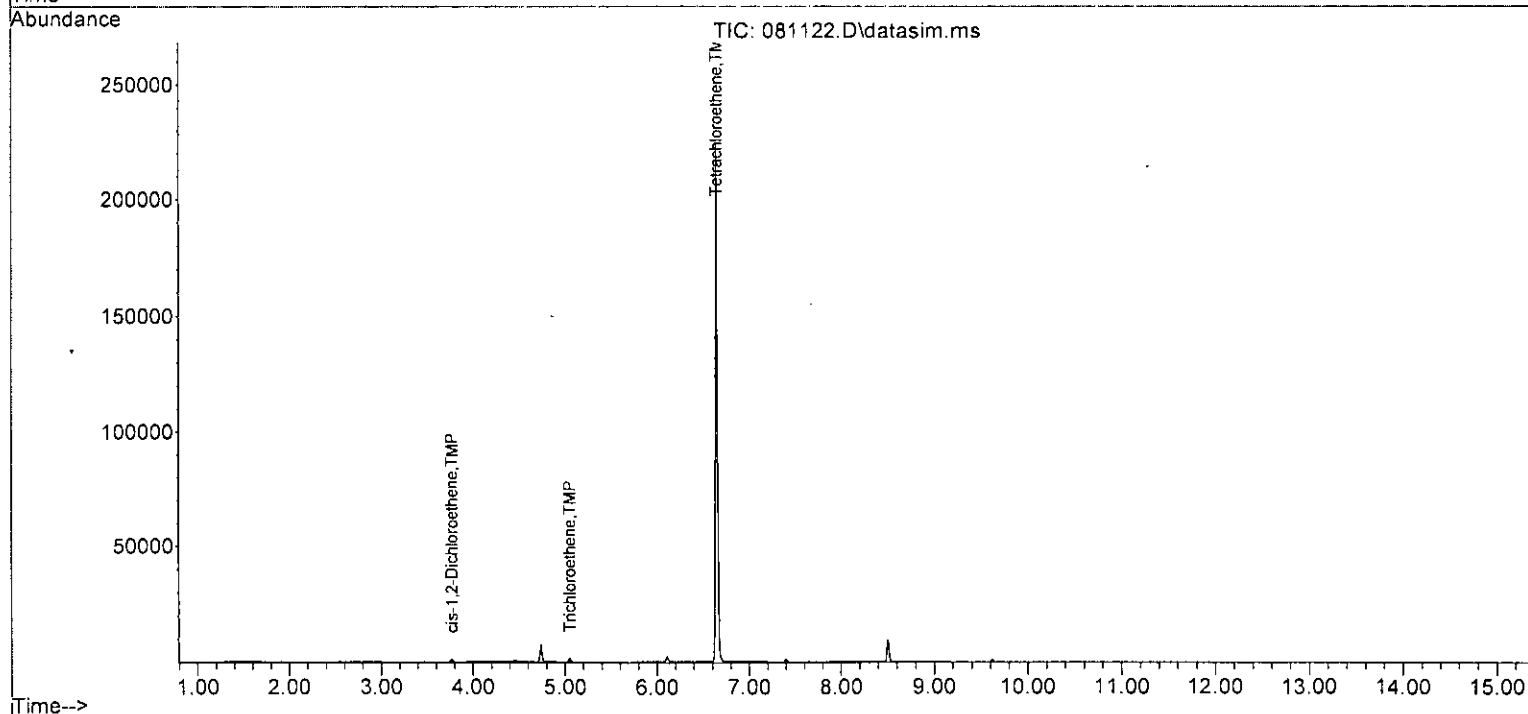
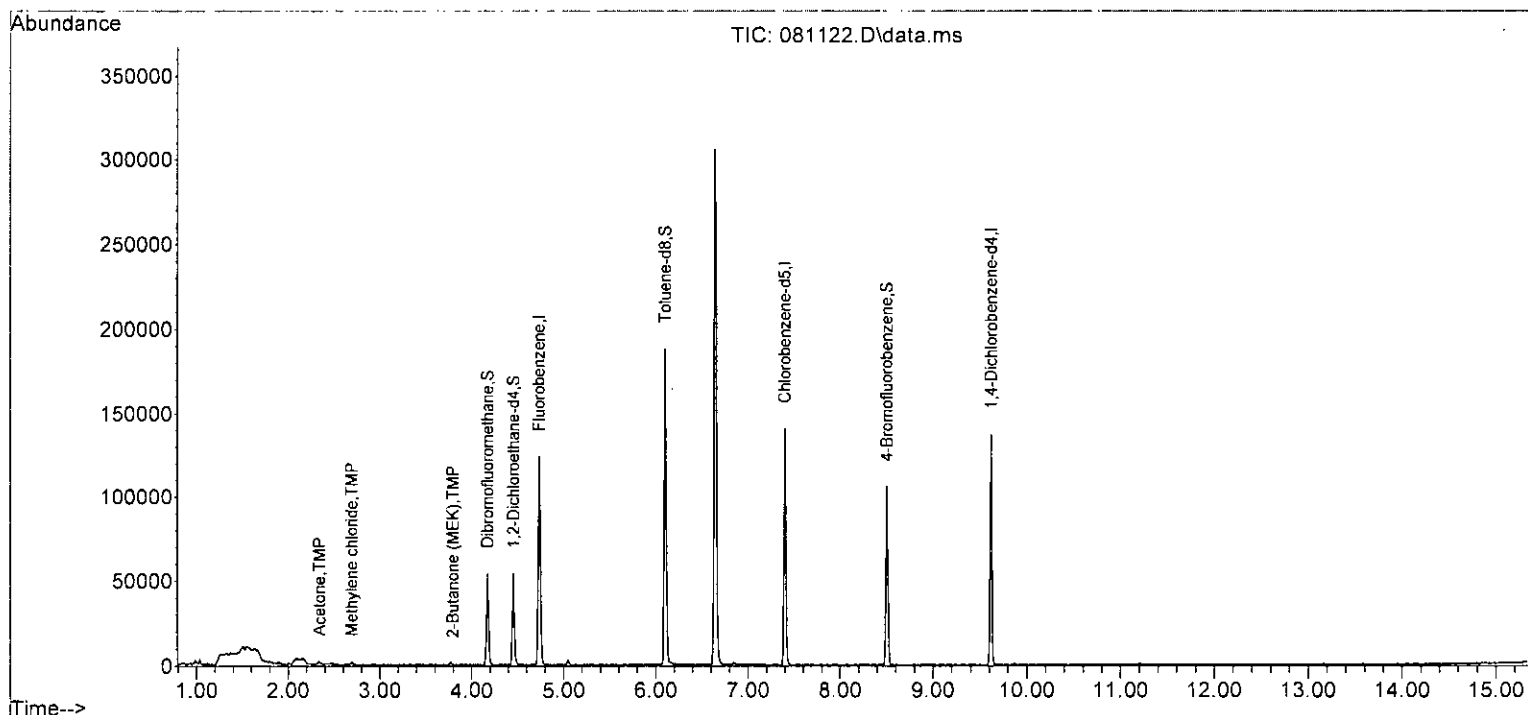
Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

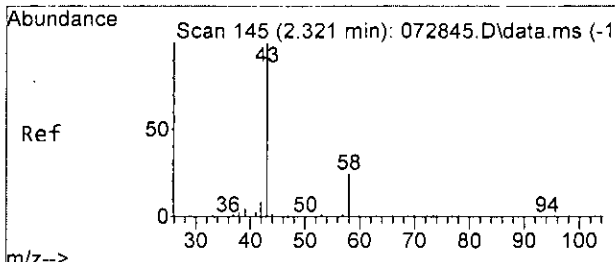
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	89595	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	68344	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	33542	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	25117	10.331	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.30%	
30) 1,2-Dichloroethane-d4	4.45	102	5773	10.723	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	107.20%	
35) Toluene-d8	6.10	98	97912	9.836	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	98.40%	
57) 4-Bromofluorobenzene	8.50	95	28711	9.503	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	95.00%	
Target Compounds						
11) Acetone	2.34	58	472	1.331	ppb	87
14) Methylene chloride	2.69	84	563	0.258	ppb #	71
22] cis-1,2-Dichloroethene	3.77	96	634m	0.245	ppb	
24) 2-Butanone (MEK)	3.79	43	271	0.157	ppb	66
26] 1,2-Dichloroethane (EDC)	4.52	62	79	Below Cal		100
31] Benzene	4.50	78	70	Below Cal		94
32] Trichloroethene	5.05	95	681	0.241	ppb #	68
40] Toluene	6.16	92	61	Below Cal		87
45] Tetrachloroethene	6.64	164	76898	28.869	ppb	98
49] Ethylbenzene	7.54	91	55	Below Cal		96
51] m,p-Xylene	7.64	106	41	Below Cal		98
-----						

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

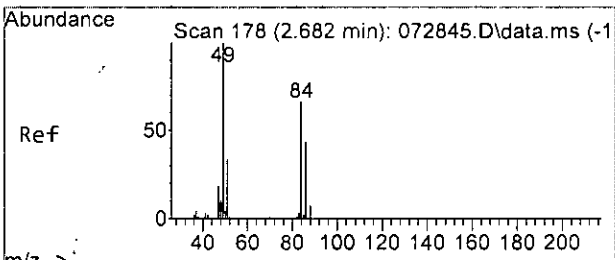
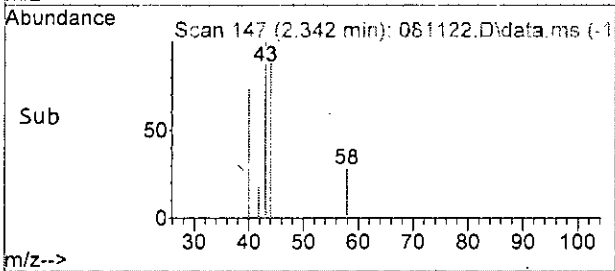
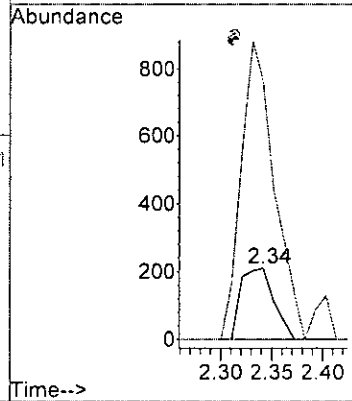
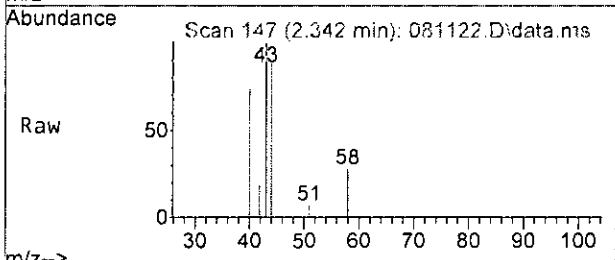
Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





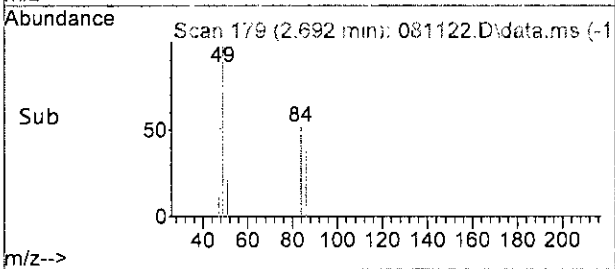
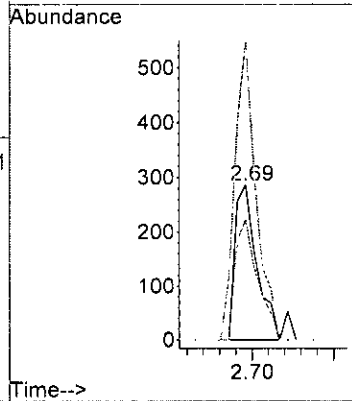
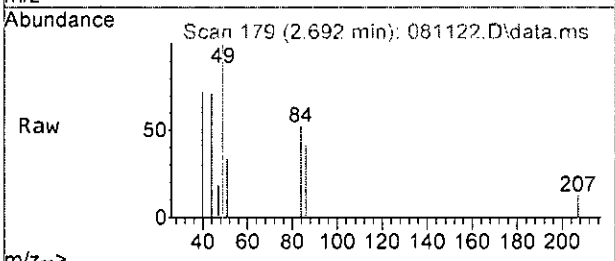
#11  
 Acetone  
 Concen: 1.331 ppb  
 RT: 2.34 min Scan# 147  
 Delta R.T. 0.021 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

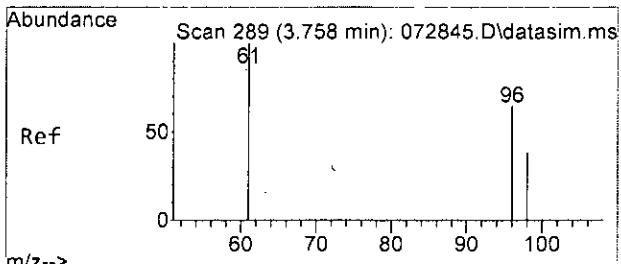
Tgt Ion: 58 Resp: 472  
 Ion Ratio Lower Upper  
 58 100  
 43 422.9 363.1 423.1



#14  
 Methylene chloride  
 Concen: 0.258 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

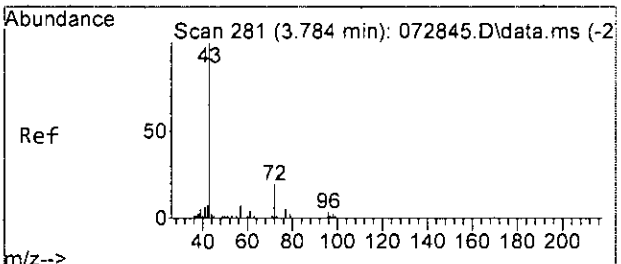
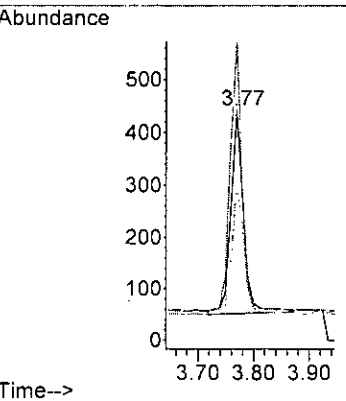
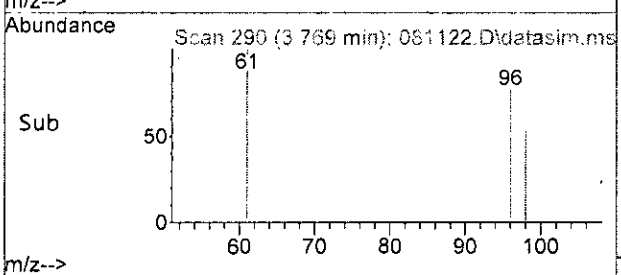
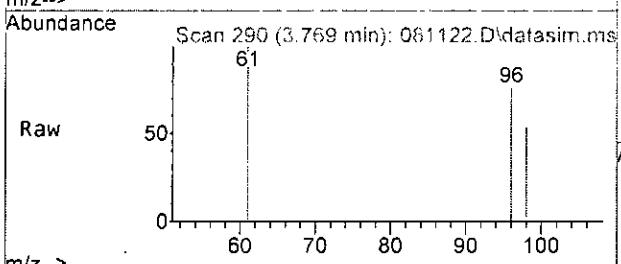
Tgt Ion: 84 Resp: 563  
 Ion Ratio Lower Upper  
 84 100  
 86 78.0 29.1 89.1  
 49 192.0 122.1 182.1#





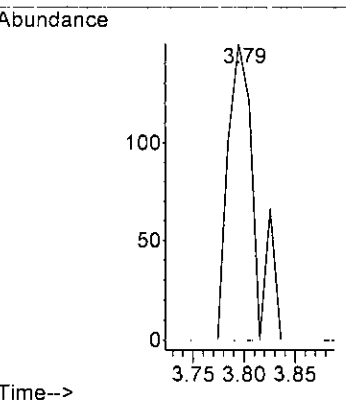
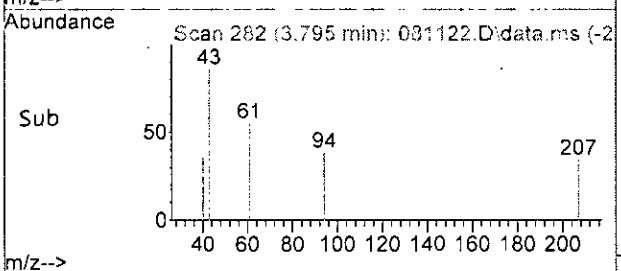
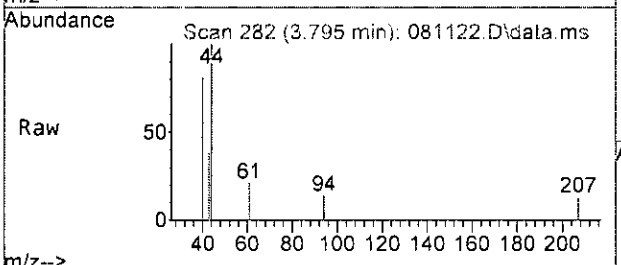
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.245 ppb m  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

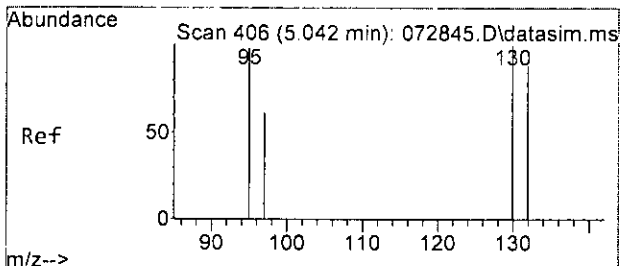
Tgt Ion	Resp	Lower	Upper
96	634	100	
61	129.2	112.0	172.0
98	67.9	38.6	98.6



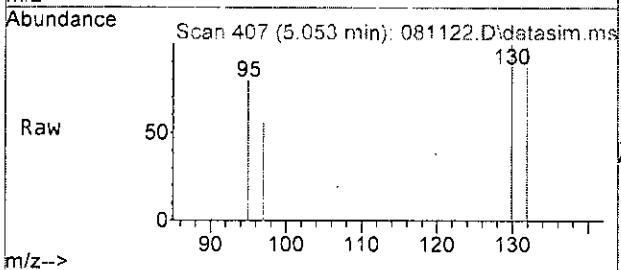
#24  
 2-Butanone (MEK)  
 Concen: 0.157 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.011 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

Tgt Ion	Resp	Lower	Upper
43	271	100	
72	0.0	0.0	47.3
57	0.0	0.0	27.2



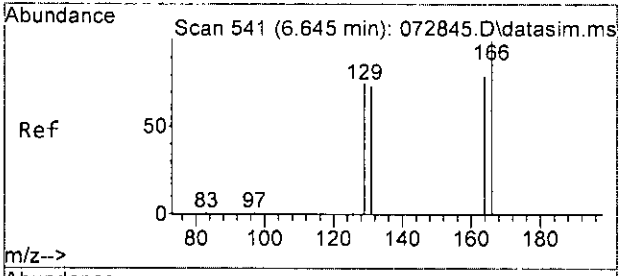
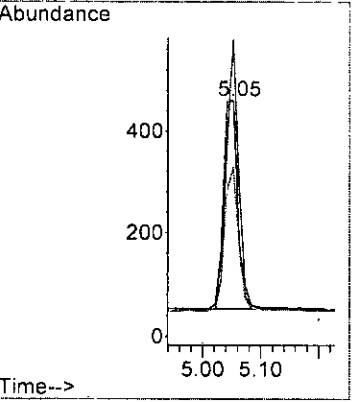
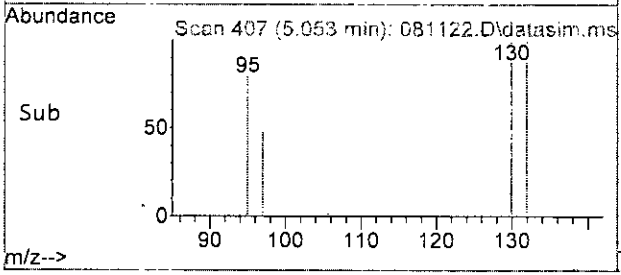


#32  
 Trichloroethene  
 Concen: 0.241 ppb  
 RT: 5.05 min Scan# 407  
 Delta R.T. 0.011 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

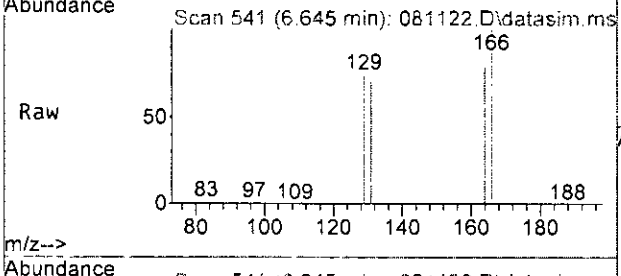


Tgt Ion: 95 Resp: 681

Ion	Ratio	Lower	Upper
95	100		
97	68.1	30.8	90.8
130	131.0	68.6	128.6#
132	130.0	56.6	116.6#

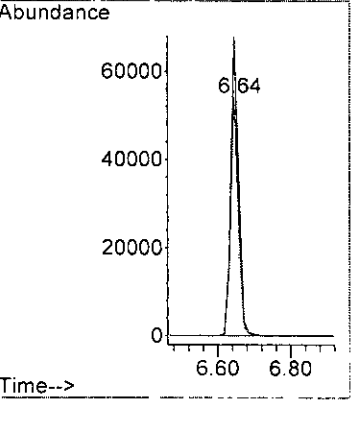
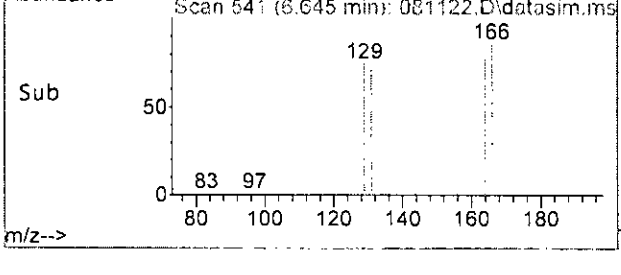


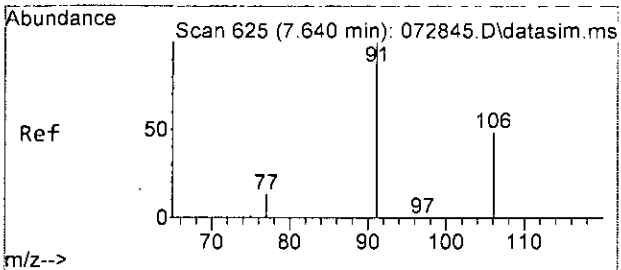
#45  
 Tetrachloroethene  
 Concen: 28.869 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm



Tgt Ion: 164 Resp: 76898

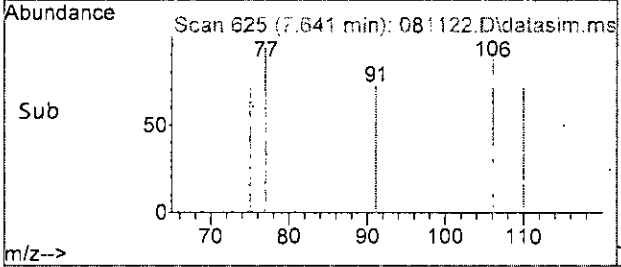
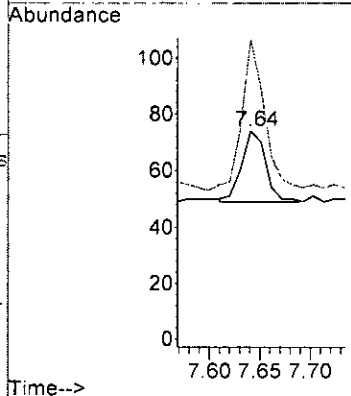
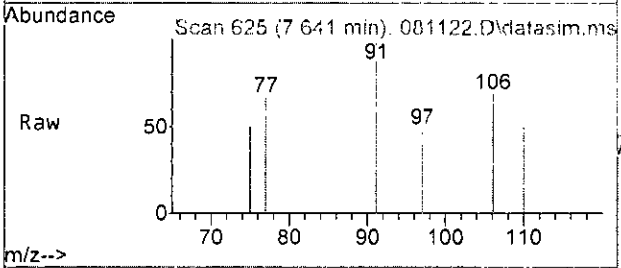
Ion	Ratio	Lower	Upper
164	100		
129	94.1	60.7	120.7
131	90.6	60.4	120.4
166	126.2	99.4	159.4





#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

Tgt Ion:106 Resp: 41  
 Ion Ratio Lower Upper  
 106 100  
 91 212.0 178.3 238.3



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	89595	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	68344	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	33542	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	25117	10.331	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.30%		
30) 1,2-Dichloroethane-d4	4.45	102	5773	10.723	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	107.20%		
35) Toluene-d8	6.10	98	97912	9.836	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	98.40%		
57) 4-Bromofluorobenzene	8.50	95	28711	9.503	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	95.00%		
Target Compounds							
							Qvalue
2) Ethanol	2.35	45	99	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.26	50	3498	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	1.60	94	246	N.D.			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.35	45	99	No Calib	#		
11) Acetone	2.34	58	472	1.331	ppb	87	
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.69	84	563	0.258	ppb	#	71
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	2.92	96	50	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22] cis-1,2-Dichloroethene	3.77	96	634m	0.245	ppb		
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	271	0.157	ppb		66
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	79	Below Cal			100
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	70	Below Cal			94
32] Trichloroethene	5.05	95	681	0.241	ppb	#	68
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

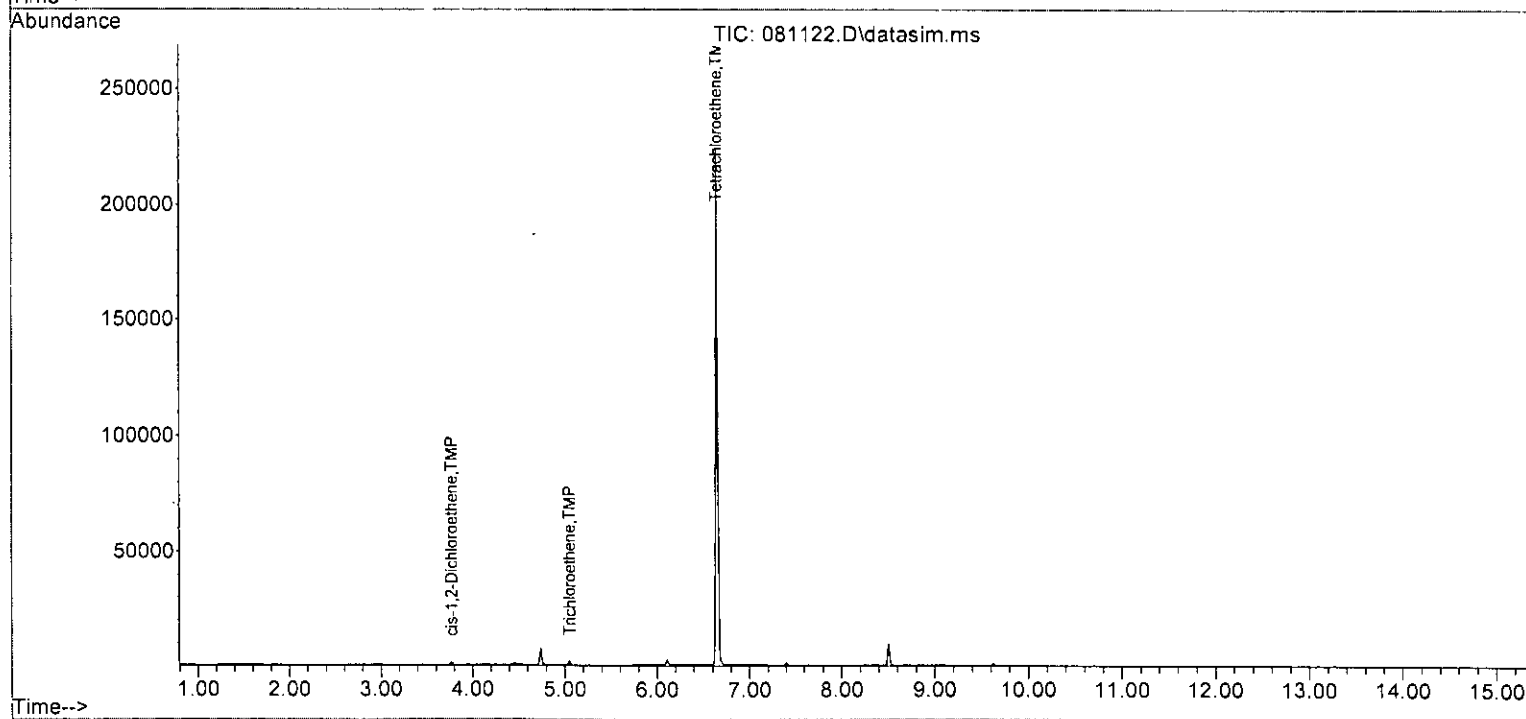
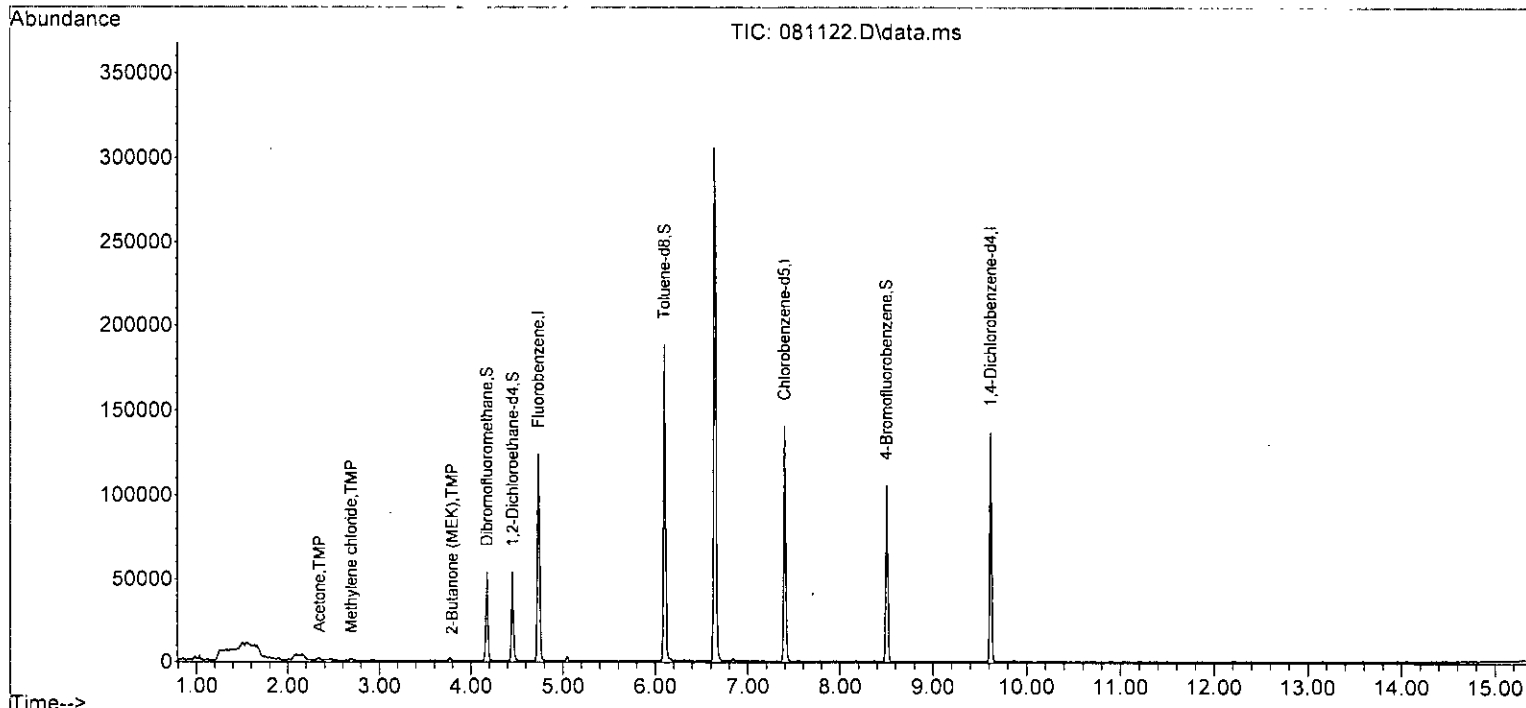
Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.16	92	61	Below Cal	87
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.52	83	49	N.D.	
43) 2-Hexanone	6.72	43	94	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.64	164	76898	28.869 ppb	98
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.54	91	55	Below Cal	96
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.64	106	41	Below Cal	98
52) o-Xylene	0.00		0	N.D.	
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	0.00		0	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	0.00		0	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	
63) 2-Chlorotoluene	0.00		0	N.D.	
64) 4-Chlorotoluene	0.00		0	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	27	N.D.	
67) sec-Butylbenzene	9.29	105	27	N.D.	
68) p-Isopropyltoluene	9.61	119	52	N.D.	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.84	128	55	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081111.D  
 Acq On : 11 Aug 2023 09:47 am  
 Operator : MD  
 Sample : 308175-05 ms  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	93045	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	73562	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37370	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	25925	10.268	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%	
30) 1,2-Dichloroethane-d4	4.45	102	5838	10.442	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	104.40%	
35) Toluene-d8	6.10	98	107424	10.392	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	103.90%	
57) 4-Bromofluorobenzene	8.50	95	32440	9.638	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	96.40%	
Target Compounds						
						Qvalue
2) Ethanol	2.34	45	330	No Calib		
4) Dichlorodifluoromethane	1.12	85	76039	9.019	ppb	97
5) Chloromethane	1.26	50	87180	9.873	ppb	97
6] Vinyl chloride	1.33	62	69256	9.683	ppb	95
7) Bromomethane	1.58	94	44956	12.825	ppb	87
8] Chloroethane	1.65	64	33365	11.116	ppb	99
9) Trichlorofluoromethane	1.85	101	116348	10.444	ppb	97
10) 2-Propanol	2.34	45	330	No Calib	#	
11) Acetone	2.33	58	13047	35.422	ppb	100
12] 1,1-Dichloroethene	2.27	96	26822	10.657	ppb	96
13) Hexane	3.16	57	39547	10.794	ppb	99
14) Methylene chloride	2.69	84	23430	10.338	ppb	96
15) t-Butyl alcohol (TBA)	2.81	59	16560	54.756	ppb	92
16] Methyl t-butyl ether (...)	2.93	73	60794	10.416	ppb	95
17] trans-1,2-Dichloroethene	2.92	96	25533	10.772	ppb	83
18) Diisopropyl ether (DIPE)	3.35	45	90681	10.411	ppb	95
19] 1,1-Dichloroethane	3.27	63	45954	10.164	ppb	97
20) Ethyl t-butyl ether (E...)	3.65	87	27656	11.271	ppb	91
21) 2,2-Dichloropropane	3.76	77	28675	11.470	ppb	92
22] cis-1,2-Dichloroethene	3.77	96	28273	10.523	ppb	98
23) Chloroform	4.04	83	42944	10.163	ppb	99
24) 2-Butanone (MEK)	3.78	43	78529	43.822	ppb	100
25) t-Amyl methyl ether (T...)	4.60	73	59711	10.807	ppb	98
26] 1,2-Dichloroethane (EDC)	4.52	62	37812	10.717	ppb	100
27] 1,1,1-Trichloroethane	4.19	97	39885	10.565	ppb	97
28) 1,1-Dichloropropene	4.33	75	33870	10.604	ppb	97
29) Carbon tetrachloride	4.33	117	35487	10.759	ppb	98
31] Benzene	4.50	78	96861	10.721	ppb	98
32] Trichloroethene	5.04	95	29105	10.502	ppb	96
33) 1,2-Dichloropropane	5.24	63	25550	10.195	ppb	99
34) Bromodichloromethane	5.48	83	31973	10.507	ppb	98
36) Dibromomethane	5.34	93	16868	10.447	ppb	97

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081111.D  
 Acq On : 11 Aug 2023 09:47 am  
 Operator : MD  
 Sample : 308175-05 ms  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS13

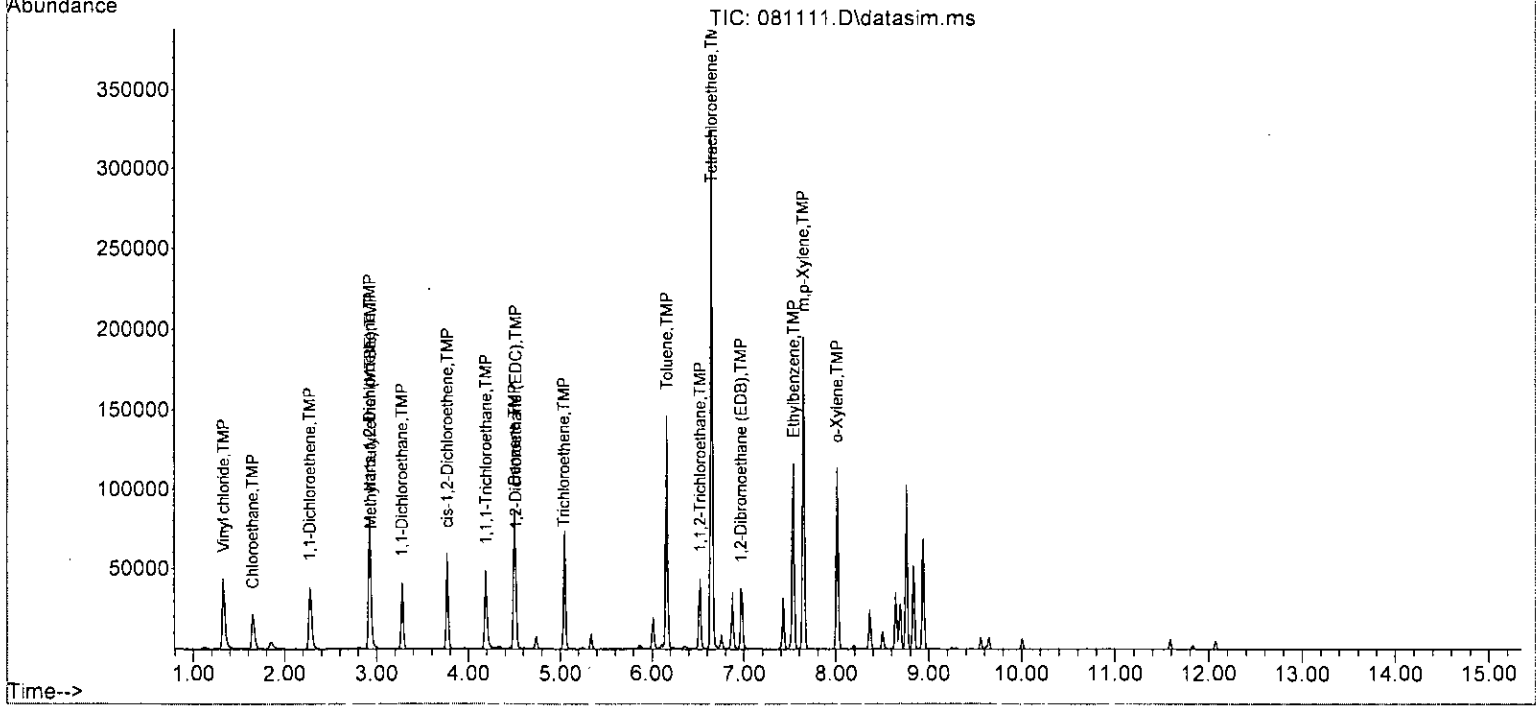
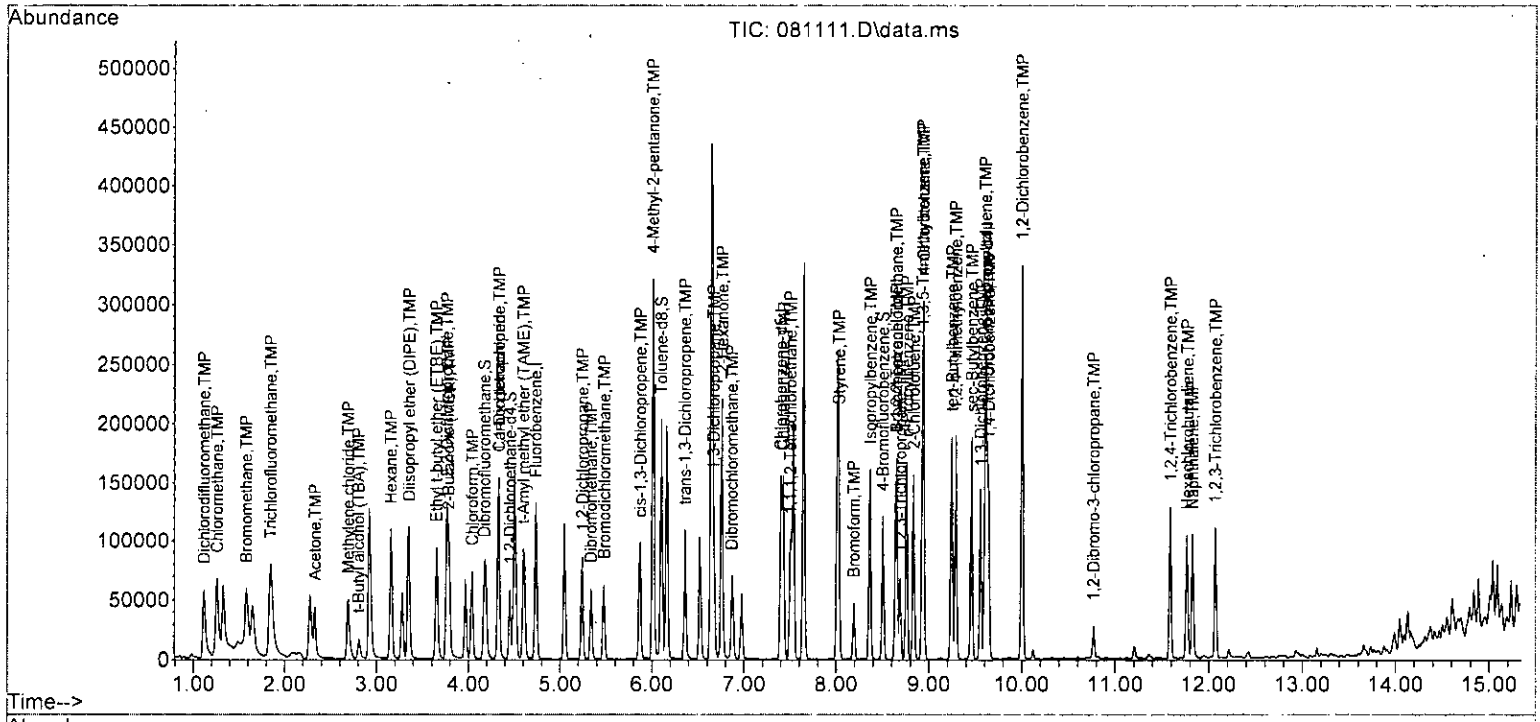
Quant Time: Aug 14 07:44:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	27137	51.662	ppb	98
38) cis-1,3-Dichloropropene	5.87	75	44930	10.744	ppb	95
40] Toluene	6.16	92	76184	10.504	ppb	95
41) trans-1,3-Dichloropropene	6.36	75	41903	10.803	ppb	98
42] 1,1,2-Trichloroethane	6.52	83	23857	10.027	ppb #	73
43) 2-Hexanone	6.76	43	149245	45.006	ppb	95
44) 1,3-Dichloropropane	6.67	76	41015	9.752	ppb	95
45] Tetrachloroethene	6.64	164	110119	38.415	ppb	96
46) Dibromochloromethane	6.87	129	33890	10.604	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	32303	10.463	ppb	96
48) Chlorobenzene	7.43	112	70644	10.318	ppb	97
49] Ethylbenzene	7.54	91	116101	10.662	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.50	131	24736	10.218	ppb	97
51] m,p-Xylene	7.64	106	92309	21.668	ppb	99
52] o-Xylene	8.01	106	44706	10.652	ppb	99
53) Styrene	8.03	104	68559	10.282	ppb	99
54) Isopropylbenzene	8.37	105	104529	10.396	ppb	100
55) Bromoform	8.19	173	18716	10.649	ppb	99
58) n-Propylbenzene	8.76	91	124649	10.030	ppb	98
59) Bromobenzene	8.65	156	31049	10.202	ppb	98
60) 1,3,5-Trimethylbenzene	8.93	105	89867	10.406	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.65	83	29104	10.146	ppb	97
62) 1,2,3-Trichloropropane	8.69	75	21583	8.779	ppb	98
63) 2-Chlorotoluene	8.84	91	72699	9.989	ppb	96
64) 4-Chlorotoluene	8.94	91	84666	10.037	ppb	100
65) tert-Butylbenzene	9.25	119	80317	10.174	ppb	97
66) 1,2,4-Trimethylbenzene	9.29	105	92154	10.091	ppb	96
67) sec-Butylbenzene	9.46	105	117193	10.088	ppb	98
68) p-Isopropyltoluene	9.61	119	101964	10.515	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	56014	10.386	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	55864	10.131	ppb	99
71) 1,2-Dichlorobenzene	10.00	146	52875	10.318	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	5121	9.401	ppb	90
73) 1,2,4-Trichlorobenzene	11.59	180	35399	10.436	ppb	97
74) Hexachlorobutadiene	11.77	225	19489	10.674	ppb	96
75) Naphthalene	11.82	128	78553	9.834	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	31132	10.090	ppb	99

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
Data File : 081111.D  
Acq On : 11 Aug 2023 09:47 am  
Operator : MD  
Sample : 308175-05.ms  
Misc : water  
ALS Vial : 7 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Aug 14 07:44:28 2023  
Quant Method : Y:\Methods\Inst13\072823vms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Sat Jul 29 09:22:43 2023  
Response via : Initial Calibration  
DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081112.D  
 Acq On : 11 Aug 2023 10:10 am  
 Operator : MD  
 Sample : 308175-05 msd  
 Misc : water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:32 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	92521	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	73965	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36656	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	25284	10.071	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	100.70%	
30) 1,2-Dichloroethane-d4	4.45	102	5907	10.625	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	106.20%	
35) Toluene-d8	6.10	98	106855	10.395	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	104.00%	
57) 4-Bromofluorobenzene	8.50	95	31466	9.531	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	95.30%	
Target Compounds							
2) Ethanol	2.33	45	368	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	75398	8.994	ppb	100	
5) Chloromethane	1.25	50	87358	9.949	ppb	98	
6] Vinyl chloride	1.32	62	71424	10.043	ppb	99	
7) Bromomethane	1.57	94	49917	14.321	ppb	86	
8] Chloroethane	1.65	64	33794	11.323	ppb	96	
9) Trichlorofluoromethane	1.84	101	108669	9.810	ppb	90	
10) 2-Propanol	2.33	45	368	No Calib			
11) Acetone	2.32	58	13265	36.218	ppb	98	
12] 1,1-Dichloroethene	2.27	96	27084	10.822	ppb	94	
13) Hexane	3.16	57	39793	10.922	ppb	98	
14) Methylene chloride	2.68	84	23728	10.528	ppb	93	
15) t-Butyl alcohol (TBA)	2.80	59	16288	54.161	ppb	99	
16] Methyl t-butyl ether (...	2.92	73	61694	10.630	ppb	98	
17] trans-1,2-Dichloroethene	2.91	96	26015	11.038	ppb	92	
18) Diisopropyl ether (DIPE)	3.34	45	102300	11.812	ppb	95	
19] 1,1-Dichloroethane	3.27	63	46861	10.423	ppb	98	
20) Ethyl t-butyl ether (E...	3.65	87	27190	11.143	ppb	94	
21) 2,2-Dichloropropane	3.76	77	33162	13.339	ppb	94	
22] cis-1,2-Dichloroethene	3.76	96	28706	10.744	ppb	86	
23) Chloroform	4.03	83	44216	10.524	ppb	92	
24) 2-Butanone (MEK)	3.78	43	88680	49.767	ppb	98	
25) t-Amyl methyl ether (T...	4.60	73	60246	10.966	ppb	99	
26] 1,2-Dichloroethane (EDC)	4.52	62	38541	10.986	ppb	97	
27] 1,1,1-Trichloroethane	4.19	97	40502	10.789	ppb	98	
28) 1,1-Dichloropropene	4.32	75	34816	10.961	ppb	96	
29) Carbon tetrachloride	4.32	117	36469	11.120	ppb	100	
31] Benzene	4.49	78	98577	10.973	ppb	89	
32] Trichloroethene	5.04	95	30128	10.933	ppb	95	
33) 1,2-Dichloropropane	5.23	63	26432	10.607	ppb	100	
34) Bromodichloromethane	5.47	83	32669	10.797	ppb	98	
36) Dibromomethane	5.34	93	17055	10.622	ppb	97	

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081112.D  
 Acq On : 11 Aug 2023 10:10 am  
 Operator : MD  
 Sample : 308175-05 msd  
 Misc : water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS13

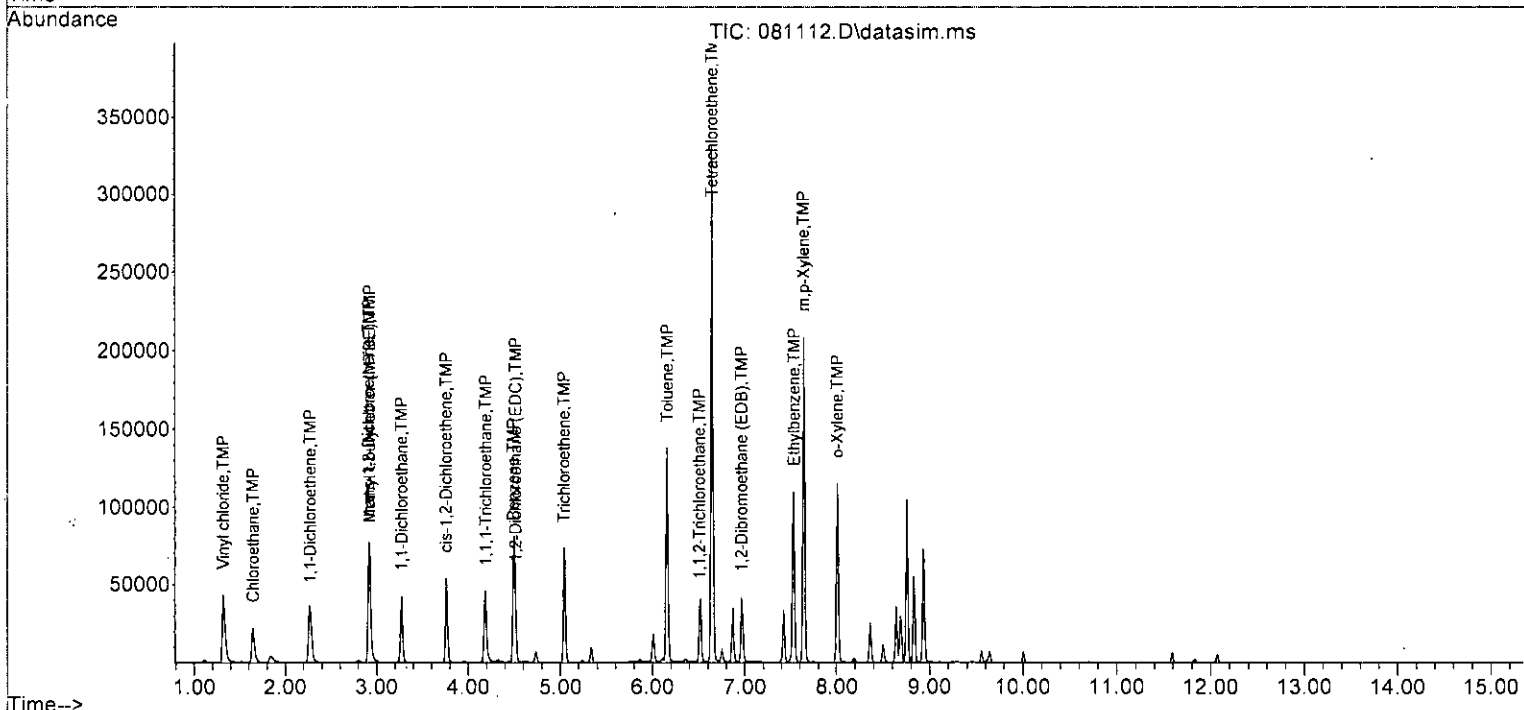
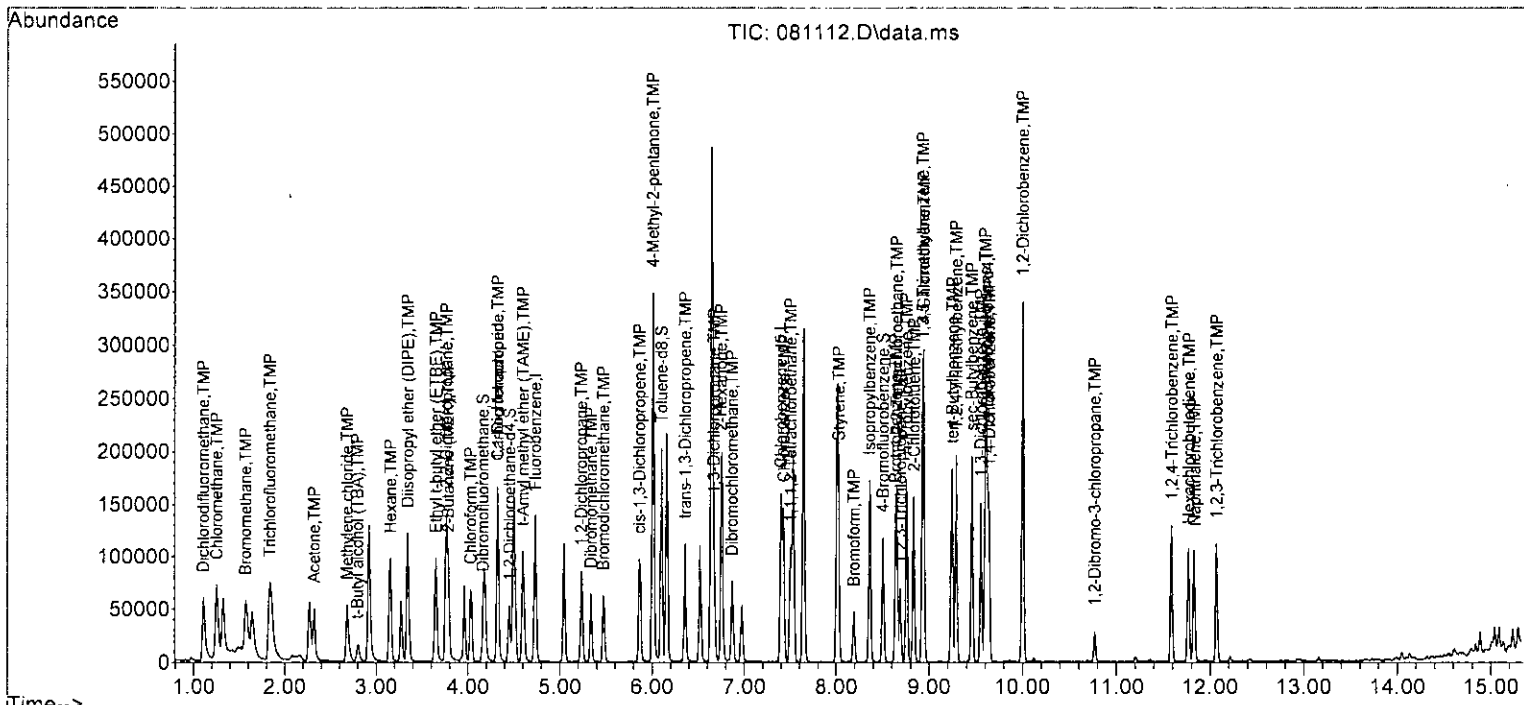
Quant Time: Aug 14 07:44:32 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	28903	55.336	ppb	92
38) cis-1,3-Dichloropropene	5.86	75	47370	11.392	ppb	97
40] Toluene	6.16	92	77805	10.669	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	41393	10.613	ppb	99
42] 1,1,2-Trichloroethane	6.51	83	24291	10.153	ppb	96
43) 2-Hexanone	6.75	43	155682	46.691	ppb	99
44) 1,3-Dichloropropane	6.67	76	41749	9.872	ppb	95
45] Tetrachloroethene	6.64	164	112444	39.013	ppb	99
46) Dibromochloromethane	6.87	129	34195	10.642	ppb	91
47] 1,2-Dibromoethane (EDB)	6.97	107	32372	10.428	ppb	98
48) Chlorobenzene	7.43	112	71527	10.390	ppb	97
49] Ethylbenzene	7.54	91	118377	10.812	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.50	131	26463	10.872	ppb	98
51] m,p-Xylene	7.64	106	94311	22.018	ppb	97
52] o-Xylene	8.01	106	45741	10.840	ppb	96
53) Styrene	8.03	104	69641	10.387	ppb	99
54) Isopropylbenzene	8.36	105	106630	10.547	ppb	99
55) Bromoform	8.19	173	18746	10.608	ppb	99
58) n-Propylbenzene	8.75	91	127248	10.438	ppb	98
59) Bromobenzene	8.64	156	31114	10.422	ppb	87
60) 1,3,5-Trimethylbenzene	8.93	105	91720	10.828	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.65	83	30414	10.810	ppb	98
62) 1,2,3-Trichloropropane	8.69	75	22280	9.240	ppb	98
63) 2-Chlorotoluene	8.84	91	73406	10.283	ppb	95
64) 4-Chlorotoluene	8.94	91	87110	10.528	ppb	99
65) tert-Butylbenzene	9.25	119	83670	10.805	ppb	99
66) 1,2,4-Trimethylbenzene	9.29	105	94377	10.535	ppb	97
67) sec-Butylbenzene	9.45	105	122638	10.763	ppb	100
68) p-Isopropyltoluene	9.60	119	103644	10.897	ppb	99
69) 1,3-Dichlorobenzene	9.55	146	57167	10.806	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	57115	10.560	ppb	98
71) 1,2-Dichlorobenzene	10.00	146	53701	10.683	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	5230	9.788	ppb	87
73) 1,2,4-Trichlorobenzene	11.59	180	36005	10.822	ppb	96
74) Hexachlorobutadiene	11.77	225	19278	10.764	ppb	96
75) Naphthalene	11.83	128	78990	10.081	ppb	98
76) 1,2,3-Trichlorobenzene	12.07	180	32069	10.597	ppb	96

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081112.D  
 Acq On : 11 Aug 2023 10:10 am  
 Operator : MD  
 Sample : 308175-05 msd  
 Misc : water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:32 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



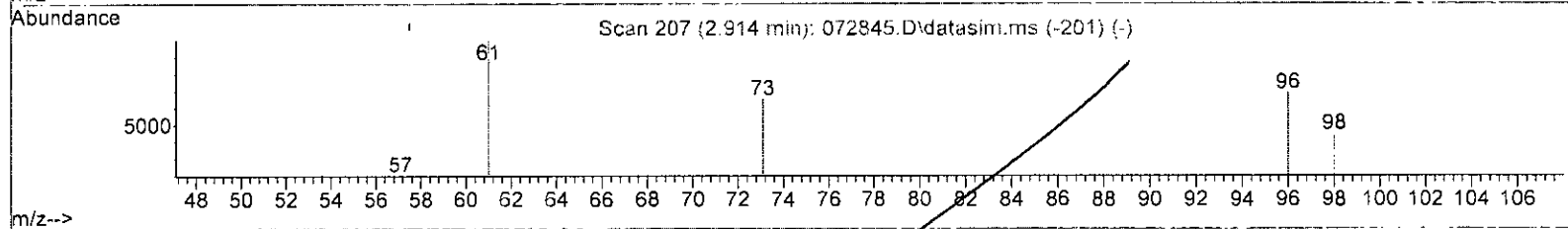
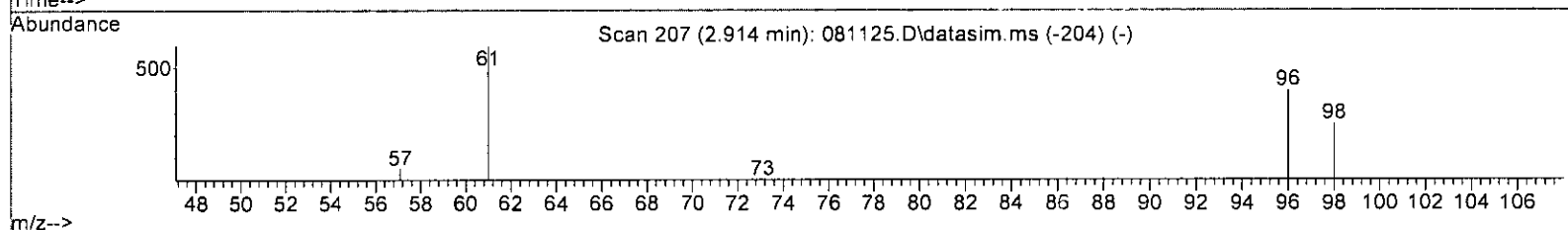
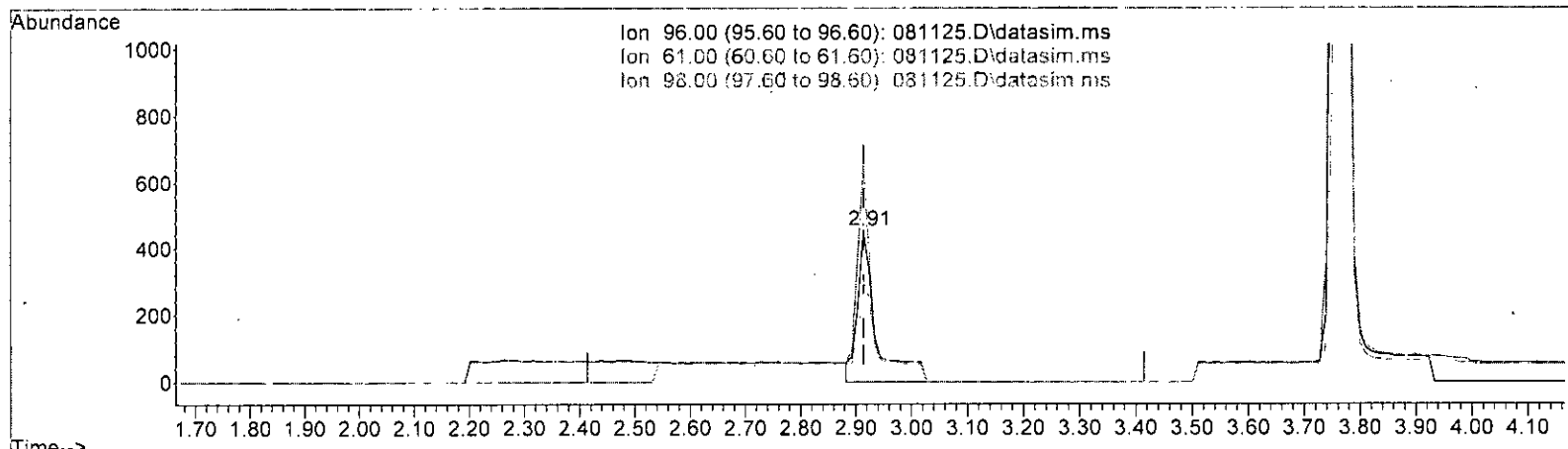


**EPA 8260D**  
**Sample Data**

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081125.D  
 Acq On : 11 Aug 2023 03:12 pm  
 Operator : MD  
 Sample : 308175-01  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081125.D\data.ms

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

2.914min (-0.000) 0.471 ppb

response 1057

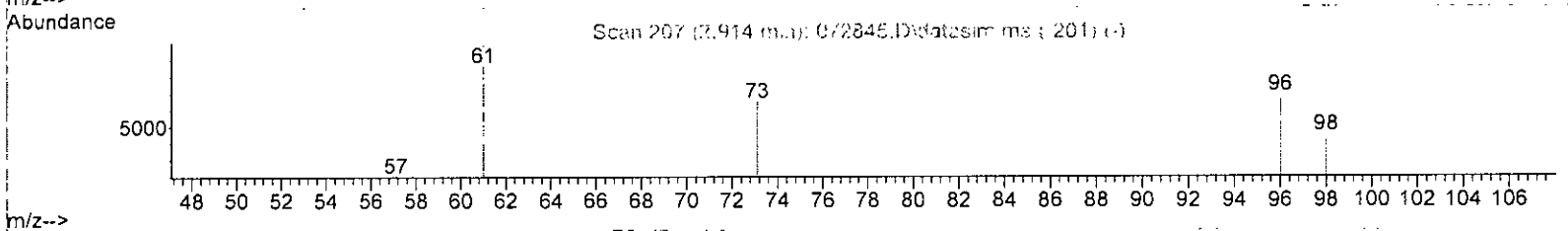
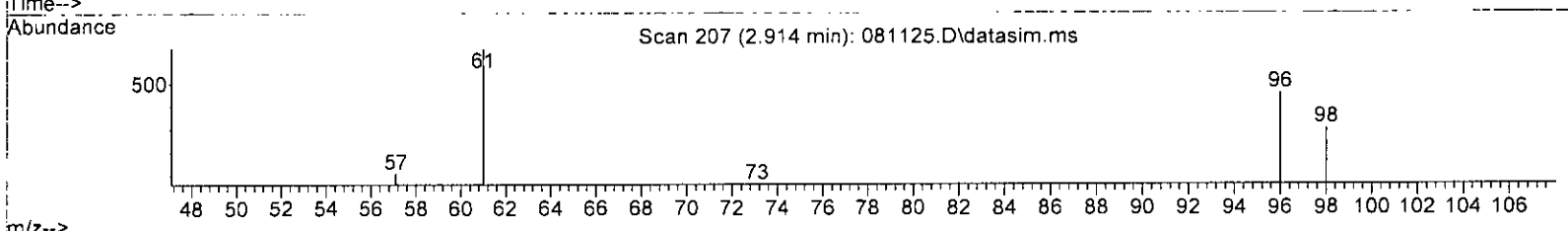
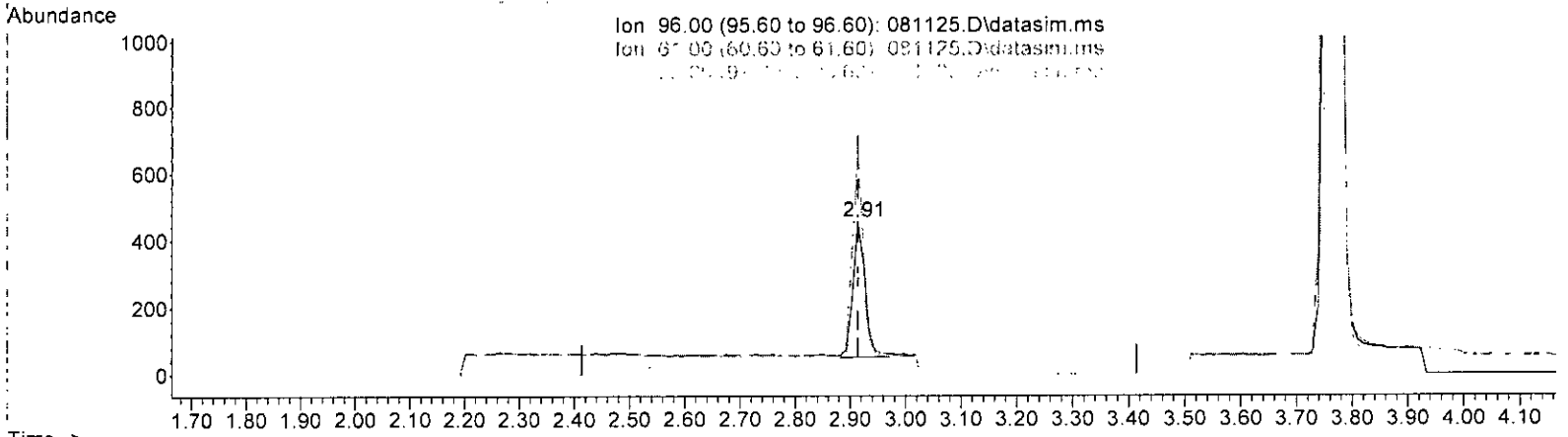
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	143.52
98.00	60.80	66.15
0.00	0.00	0.00

M 8/14

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081125.D  
 Acq On : 11 Aug 2023 03:12 pm  
 Operator : MD  
 Sample : 308175-01  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081125.D\data.ms

*m8/14*

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

2.914min (-0.000) 0.276 ppb m

response	634
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 143.52
98.00	60.80 66.15
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081125.D  
 Acq On : 11 Aug 2023 03:12 pm  
 Operator : MD  
 Sample : 308175-01  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

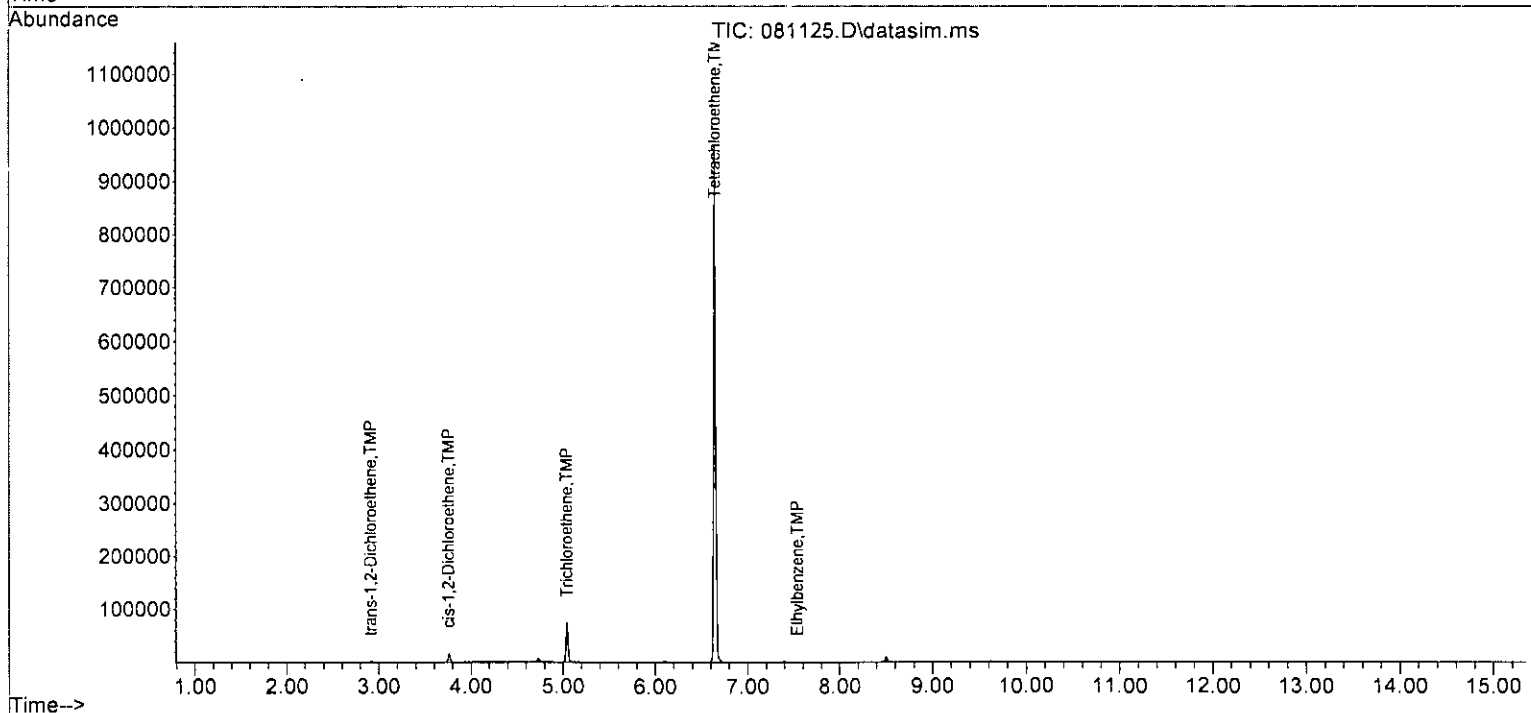
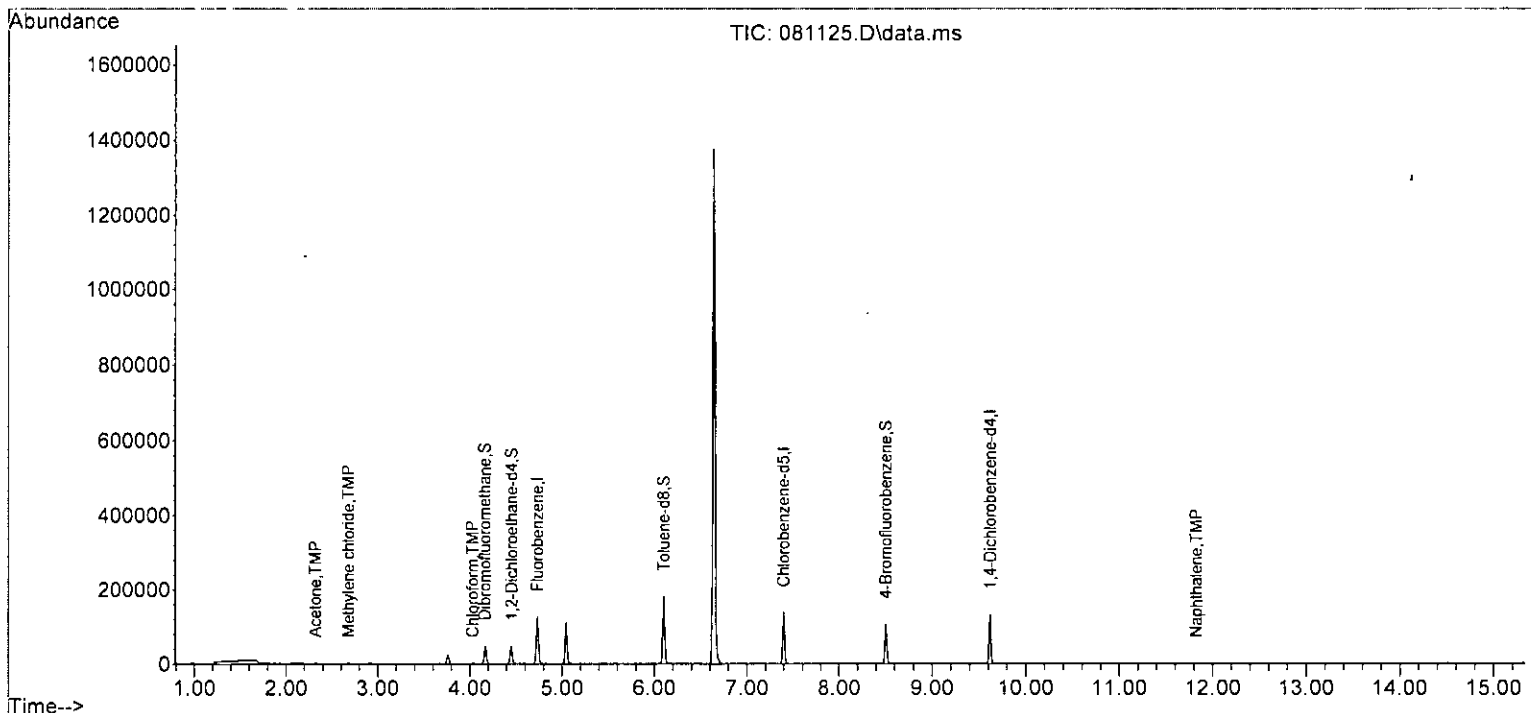
Quant Time: Aug 14 07:45:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

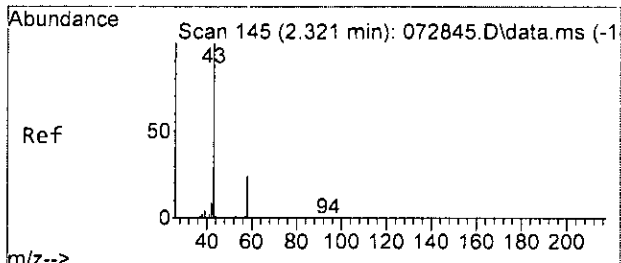
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	85356	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	65435	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	32884	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	24291	10.488	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	104.90%	
30) 1,2-Dichloroethane-d4	4.45	102	5428	10.583	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	105.80%	
35) Toluene-d8	6.10	98	96700	10.197	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	102.00%	
57) 4-Bromofluorobenzene	8.50	95	28057	9.473	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.70%	
Target Compounds						
11) Acetone	2.32	58	372	1.101	ppb	# 73
14) Methylene chloride	2.68	84	496	0.239	ppb	80
17] trans-1,2-Dichloroethene	2.91	96	634m	0.276	ppb	
22] cis-1,2-Dichloroethene	3.76	96	8826	3.581	ppb	95
23) Chloroform	4.03	83	653	0.168	ppb	100
26] 1,2-Dichloroethane (EDC)	4.52	62	66	Below Cal		94
32] Trichloroethene	5.04	95	29637	11.659	ppb	92
40] Toluene	6.16	92	50	Below Cal		94
45] Tetrachloroethene	6.64	164	330911	129.828	ppb	99
49] Ethylbenzene	7.54	91	654	0.054	ppb	99
51] m,p-Xylene	7.64	106	43	Below Cal		98
75) Naphthalene	11.82	128	215	0.031	ppb	68

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081125.D  
 Acq On : 11 Aug 2023 03:12 pm  
 Operator : MD  
 Sample : 308175-01  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

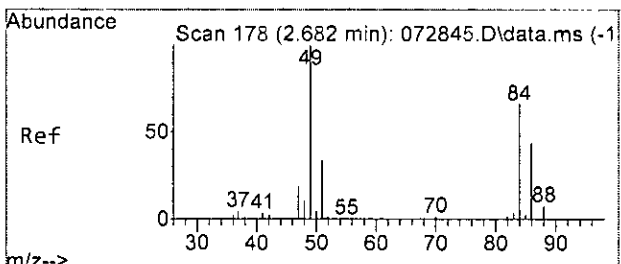
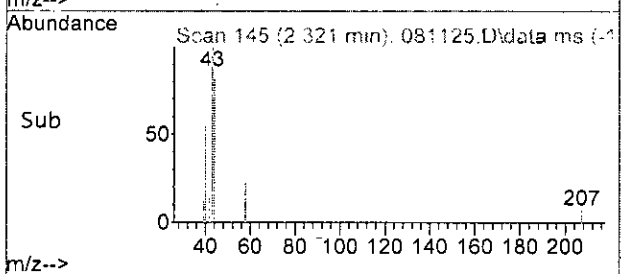
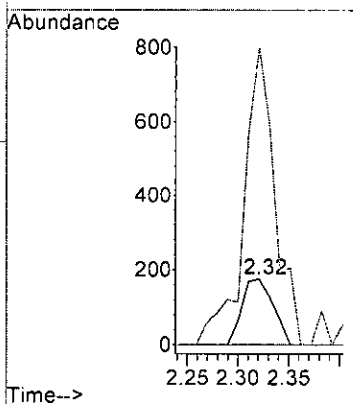
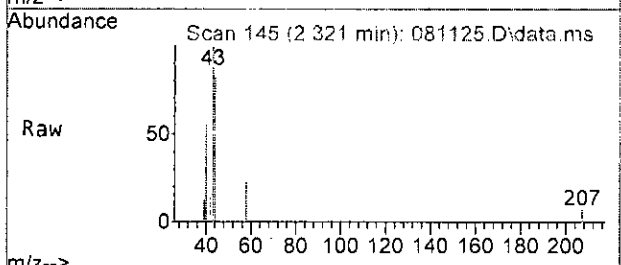
Quant Time: Aug 14 07:45:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





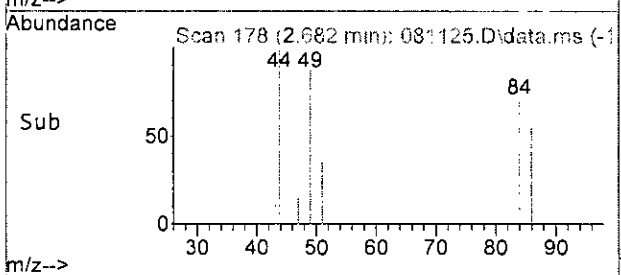
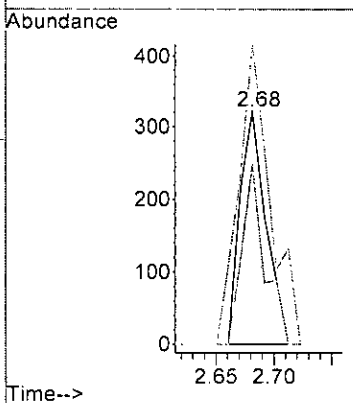
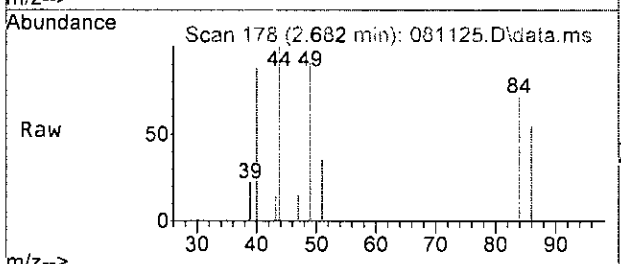
#11  
 Acetone  
 Concen: 1.101 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. -0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

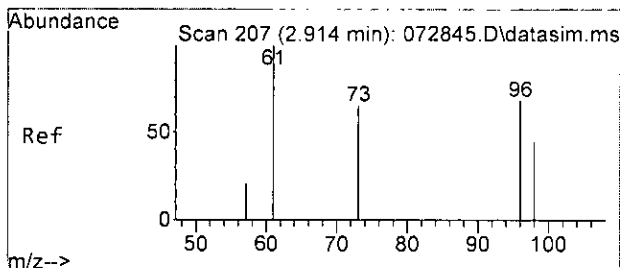
Tgt Ion: 58 Resp: 372  
 Ion Ratio Lower Upper  
 58 100  
 43 455.4 363.1 423.1#



#14  
 Methylene chloride  
 Concen: 0.239 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

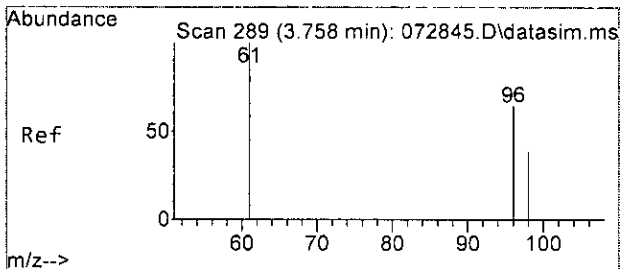
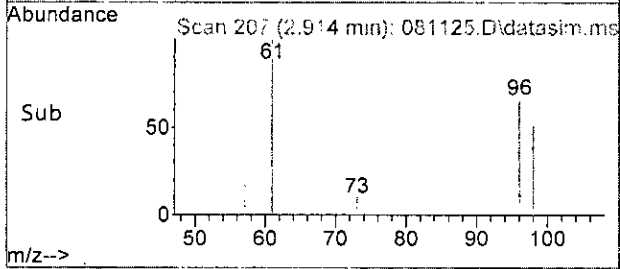
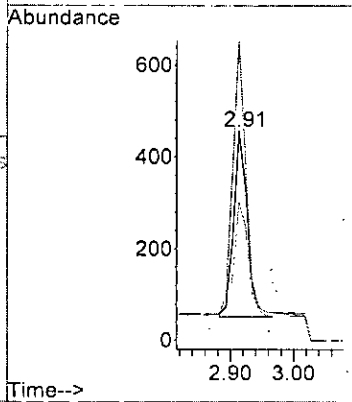
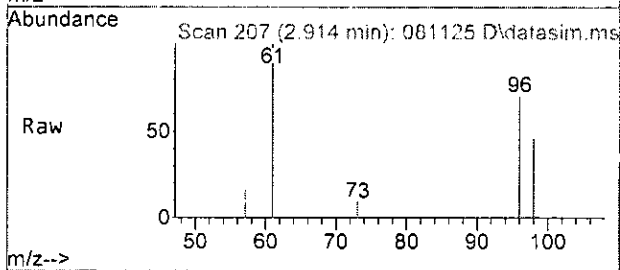
Tgt Ion: 84 Resp: 496  
 Ion Ratio Lower Upper  
 84 100  
 86 77.3 29.1 89.1  
 49 128.9 122.1 182.1





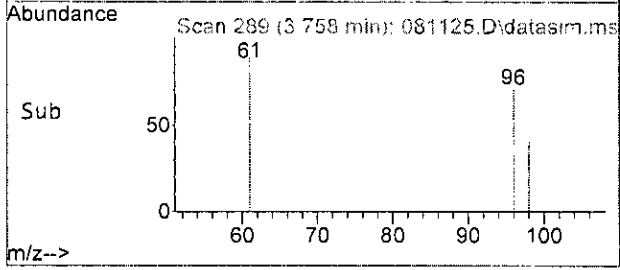
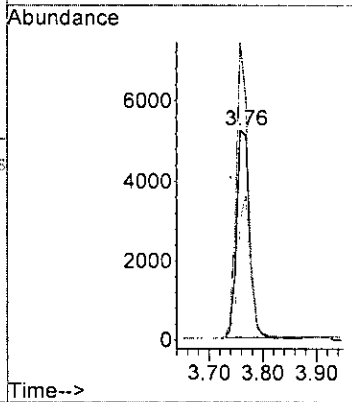
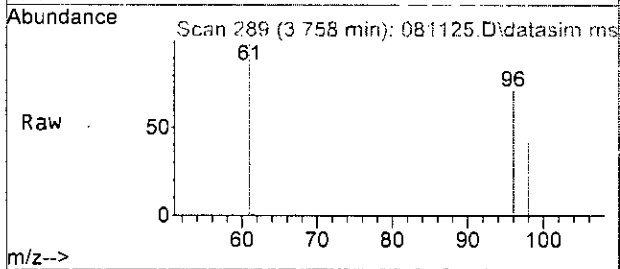
#17  
 trans-1,2-Dichloroethene  
 Concen: 0.276 ppb m  
 RT: 2.91 min Scan# 207  
 Delta R.T. -0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

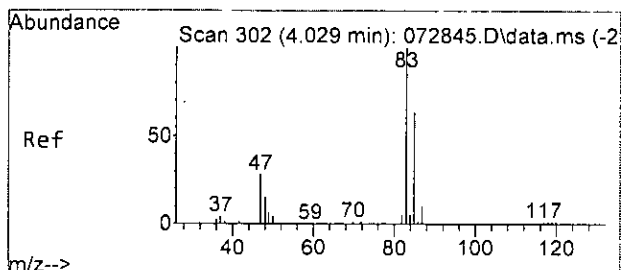
Tgt Ion:	96	Resp:	634
Ion Ratio	Lower	Upper	
96	100		
61	143.5	135.6	195.6
98	66.2	30.8	90.8



#22  
 cis-1,2-Dichloroethene  
 Concen: 3.581 ppb  
 RT: 3.76 min Scan# 289  
 Delta R.T. 0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

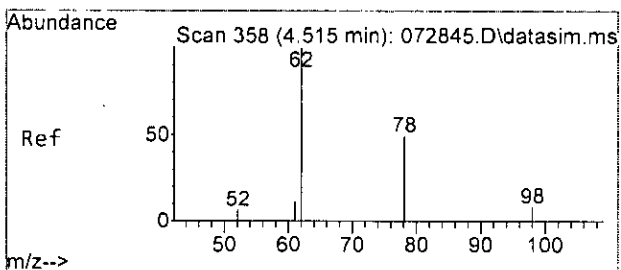
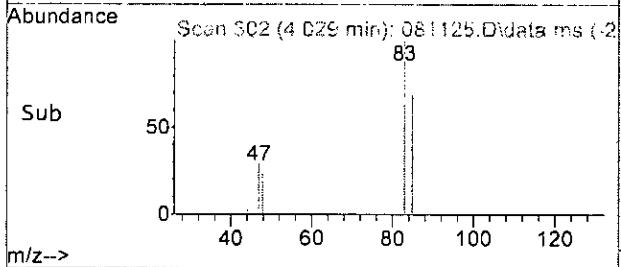
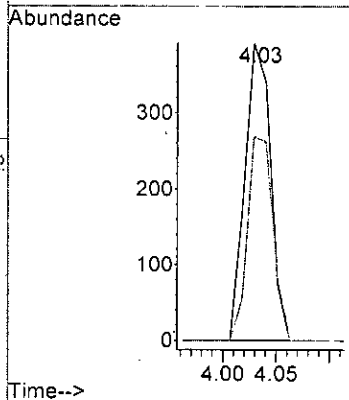
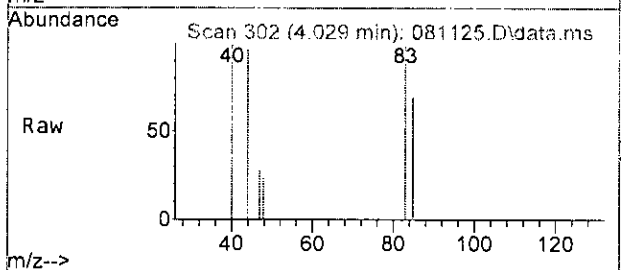
Tgt Ion:	96	Resp:	8826
Ion Ratio	Lower	Upper	
96	100		
61	141.6	112.0	172.0
98	57.5	38.6	98.6





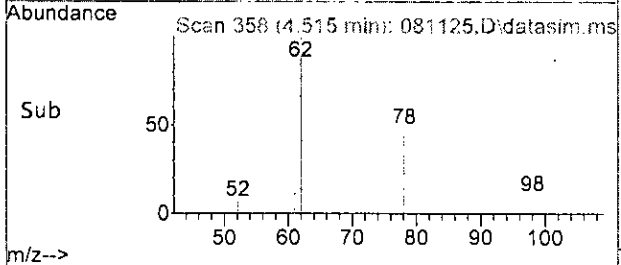
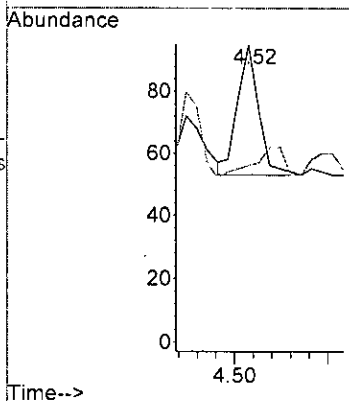
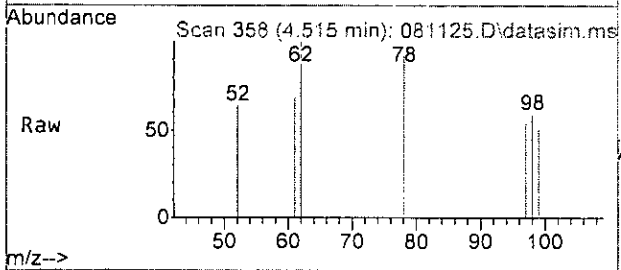
#23  
 Chloroform  
 Concen: 0.168 ppb  
 RT: 4.03 min Scan# 302  
 Delta R.T. 0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

Tgt Ion: 83 Resp: 653  
 Ion Ratio Lower Upper  
 83 100  
 85 69.0 39.2 99.2

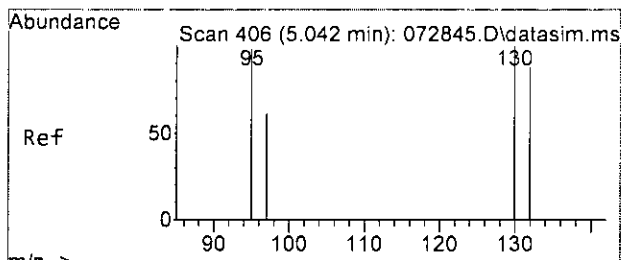


#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

Tgt Ion: 62 Resp: 66  
 Ion Ratio Lower Upper  
 62 100  
 98 9.5 0.0 37.3

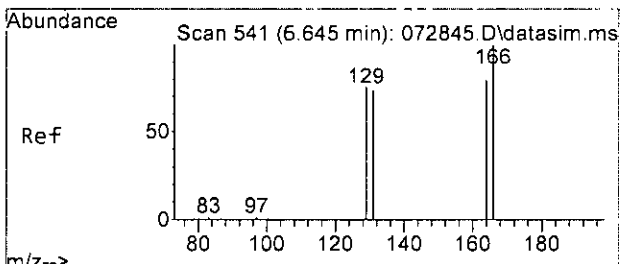
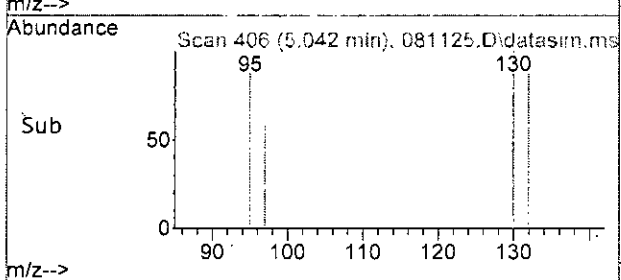
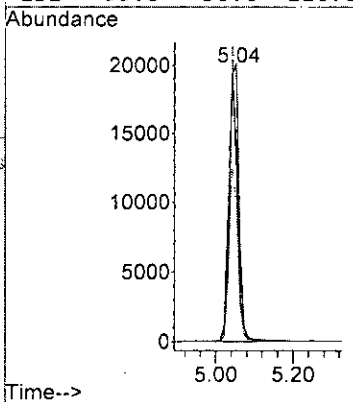
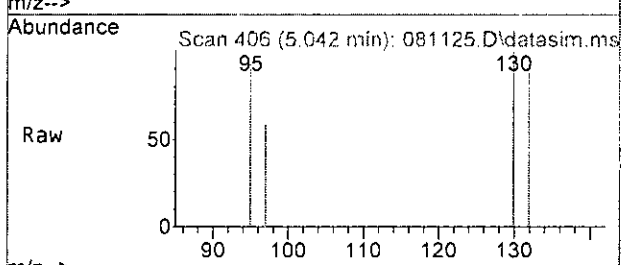






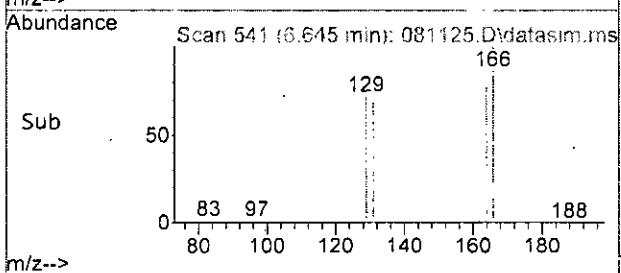
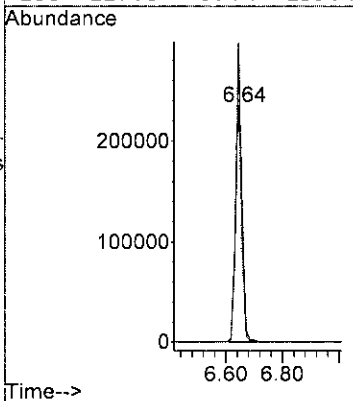
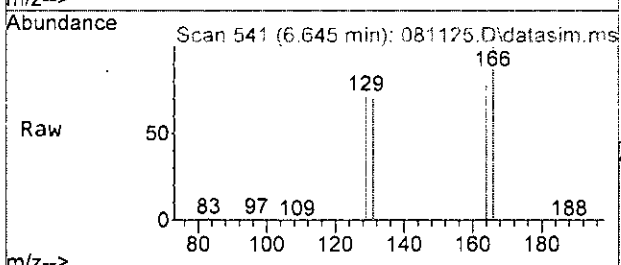
#32  
 Trichloroethene  
 Concen: 11.659 ppb  
 RT: 5.04 min Scan# 406  
 Delta R.T. 0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

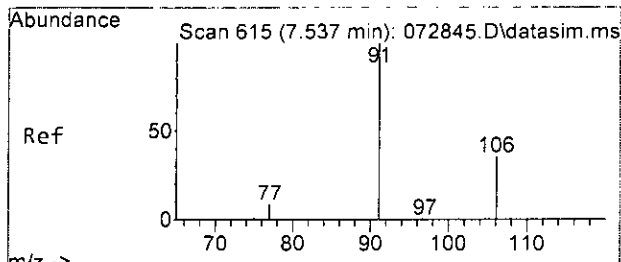
Tgt Ion	Resp	Lower	Upper
95	100		
97	62.8	30.8	90.8
130	107.2	68.6	128.6
132	95.6	56.6	116.6



#45  
 Tetrachloroethene  
 Concen: 129.828 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

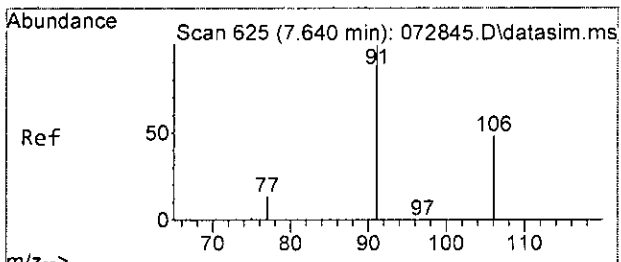
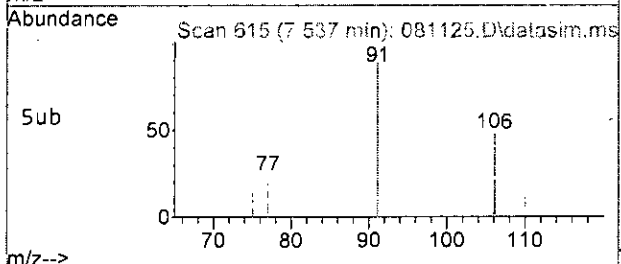
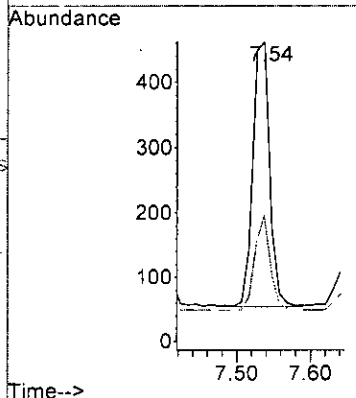
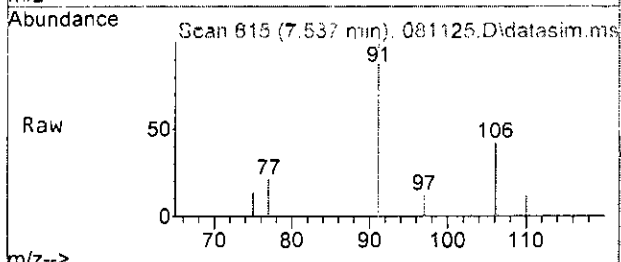
Tgt Ion	Resp	Lower	Upper
164	100		
129	92.1	60.7	120.7
131	89.7	60.4	120.4
166	127.6	99.4	159.4





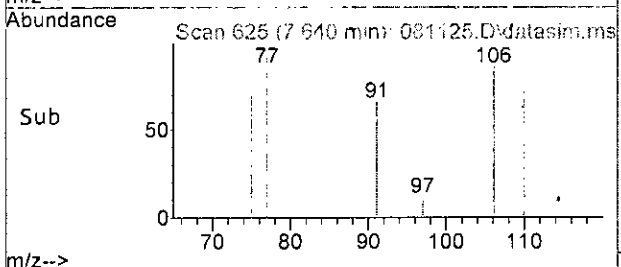
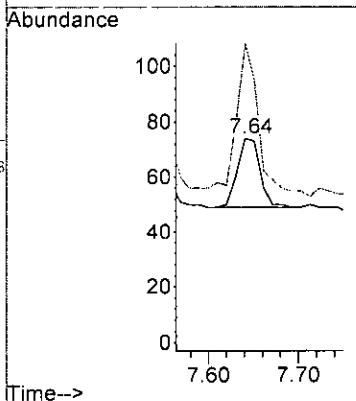
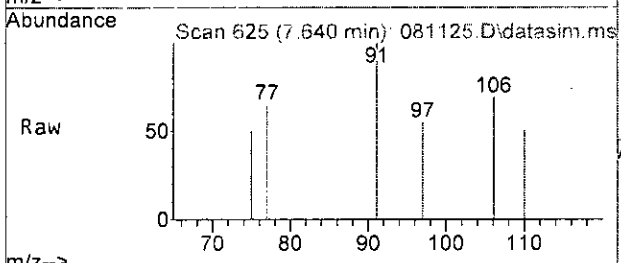
#49  
 Ethylbenzene  
 Concen: 0.054 ppb  
 RT: 7.54 min Scan# 615  
 Delta R.T. 0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

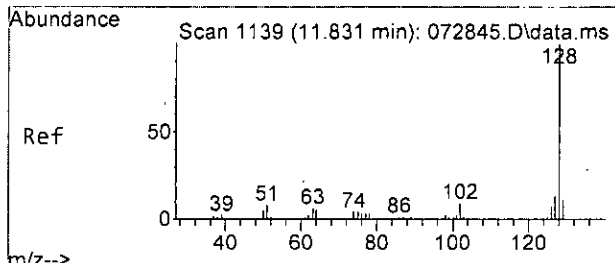
Tgt Ion: 91 Resp: 654  
 Ion Ratio Lower Upper  
 91 100  
 106 35.9 5.4 65.4



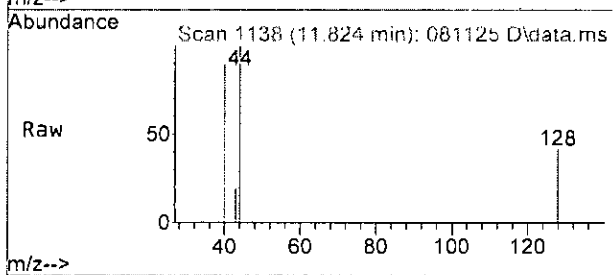
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.000 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm

Tgt Ion: 106 Resp: 43  
 Ion Ratio Lower Upper  
 106 100  
 91 212.0 178.3 238.3



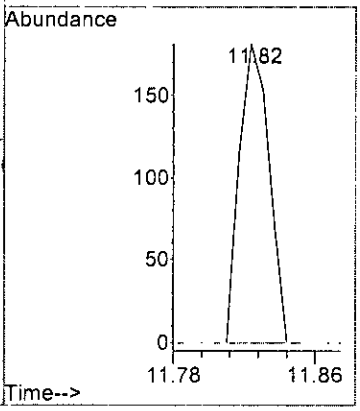
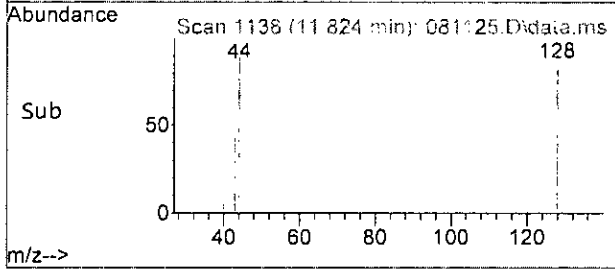


#75  
 Naphthalene  
 Concen: 0.031 ppb  
 RT: 11.82 min Scan# 1138  
 Delta R.T. -0.007 min  
 Lab File: 081125.D  
 Acq: 11 Aug 2023 03:12 pm



Tgt Ion:128 Resp: 215

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	40.8
127	0.0	0.0	43.7



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081125.D  
 Acq On : 11 Aug 2023 03:12 pm  
 Operator : MD  
 Sample : 308175-01  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	85356	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	65435	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	32884	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	24291	10.488	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	104.90%		
30) 1,2-Dichloroethane-d4	4.45	102	5428	10.583	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	105.80%		
35) Toluene-d8	6.10	98	96700	10.197	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	102.00%		
57) 4-Bromofluorobenzene	8.50	95	28057	9.473	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.70%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.23	50	1240		N.D.		
6) Vinyl chloride	0.00		0		N.D. d		
7) Bromomethane	0.00		0		N.D. d		
8) Chloroethane	0.00		0		N.D.		
9) Trichlorofluoromethane	0.00		0		N.D.		
10) 2-Propanol	0.00		0		N.D.		
11) Acetone	2.32	58	372	1.101	ppb #	73	
12) 1,1-Dichloroethene	0.00		0		N.D. d		
13) Hexane	3.15	57	71		N.D.		
14) Methylene chloride	2.68	84	496	0.239	ppb	80	
15) t-Butyl alcohol (TBA)	0.00		0		N.D.		
16) Methyl t-butyl ether (...)	0.00		0		N.D.		
17] trans-1,2-Dichloroethene	2.91	96	634m	0.276	ppb		
18) Diisopropyl ether (DIPE)	0.00		0		N.D.		
19) 1,1-Dichloroethane	0.00		0		N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	0.00		0		N.D.		
22] cis-1,2-Dichloroethene	3.76	96	8826	3.581	ppb	95	
23) Chloroform	4.03	83	653	0.168	ppb	100	
24) 2-Butanone (MEK)	0.00		0		N.D. d		
25) t-Amyl methyl ether (T...)	0.00		0		N.D.		
26] 1,2-Dichloroethane (EDC)	4.52	62	66	Below Cal		94	
27) 1,1,1-Trichloroethane	0.00		0		N.D.		
28) 1,1-Dichloropropene	0.00		0		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31) Benzene	4.49	78	132		N.D.		
32] Trichloroethene	5.04	95	29637	11.659	ppb	92	
33) 1,2-Dichloropropane	0.00		0		N.D.		
34) Bromodichloromethane	0.00		0		N.D.		
36) Dibromomethane	0.00		0		N.D.		

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081125.D  
 Acq On : 11 Aug 2023 03:12 pm  
 Operator : MD  
 Sample : 308175-01  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

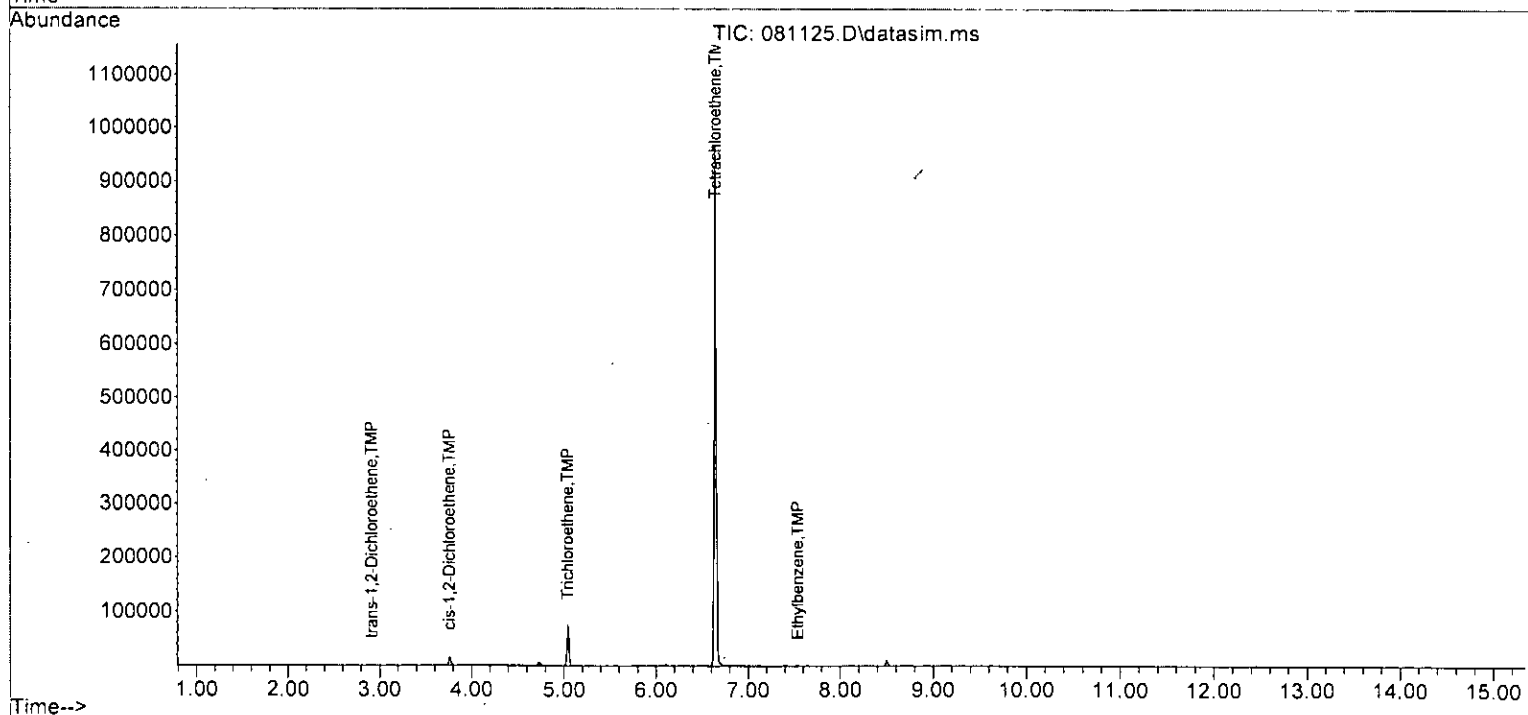
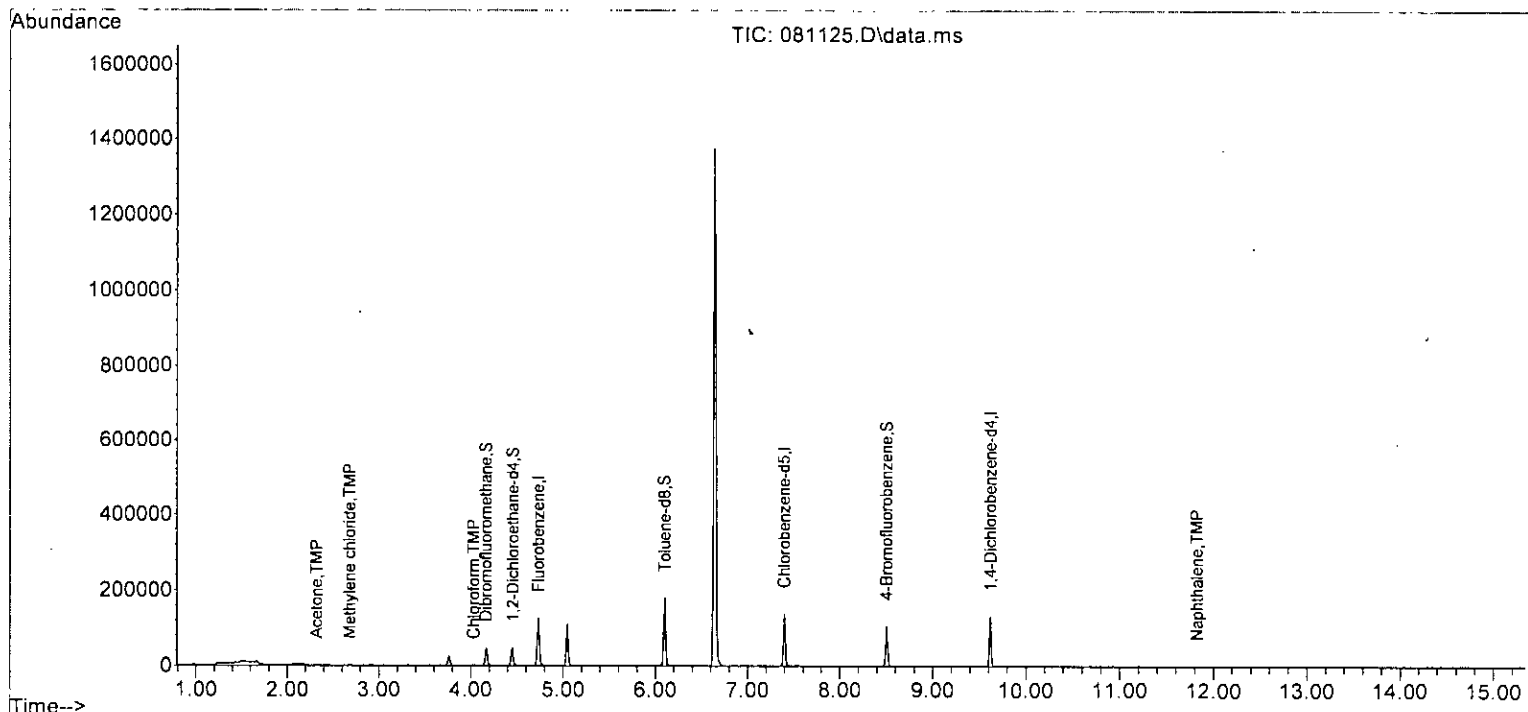
Quant Time: Aug 14 07:45:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	50	Below Cal		94
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.52	83	48		N.D.	
43) 2-Hexanone	6.69	43	72		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.64	164	330911	129.828	ppb	99
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	654	0.054	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	43	Below Cal		98
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.37	105	226		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.75	91	192		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.75	91	192		N.D.	
64) 4-Chlorotoluene	8.75	91	192		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.45	105	123		N.D.	
67) sec-Butylbenzene	9.45	105	123		N.D.	
68) p-Isopropyltoluene	9.61	119	96		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.82	128	215	0.031	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081125.D  
 Acq On : 11 Aug 2023 03:12 pm  
 Operator : MD  
 Sample : 308175-01  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

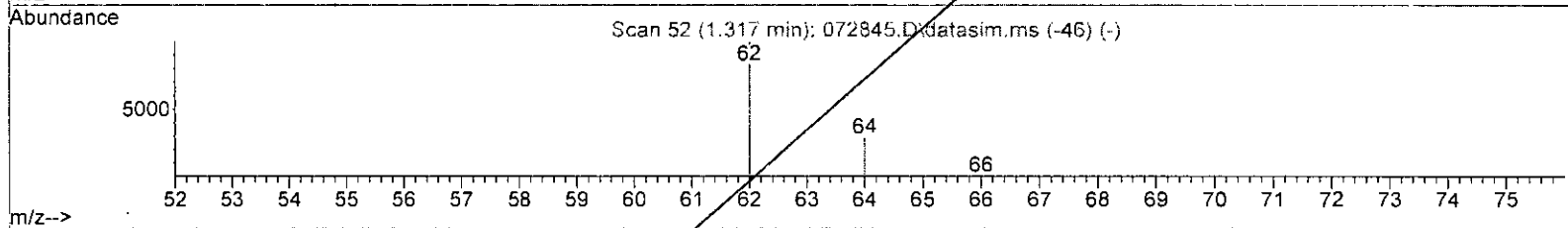
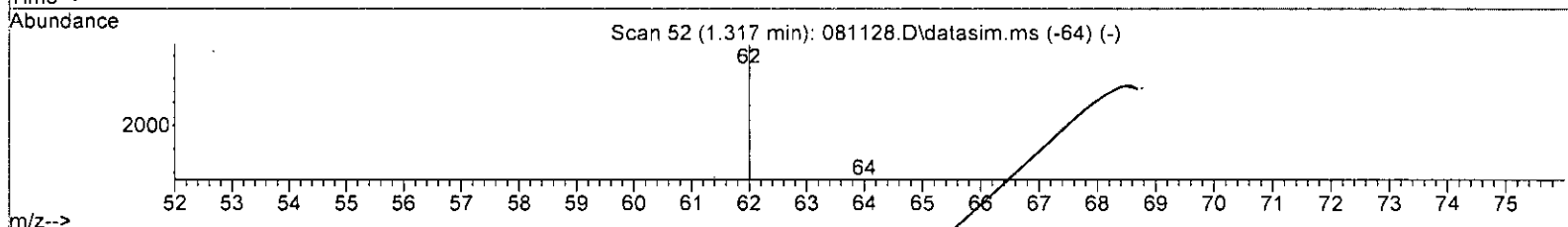
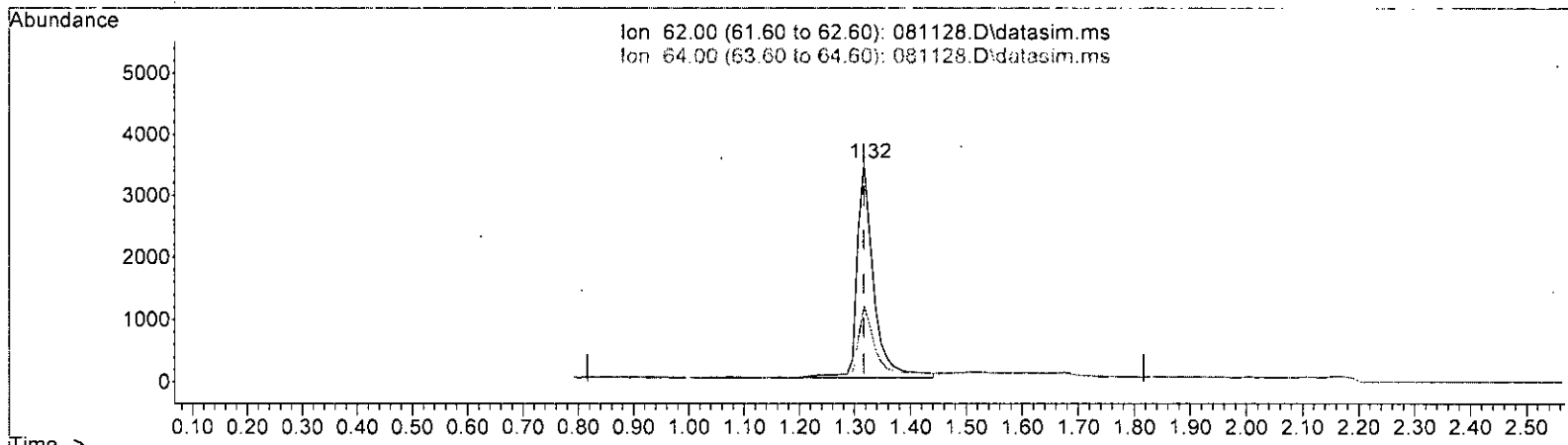
Quant Time: Aug 14 07:45:12 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081128.D  
 Acq On : 11 Aug 2023 04:22 pm  
 Operator : MD  
 Sample : 308175-02 1/10  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081128.D\data.ms

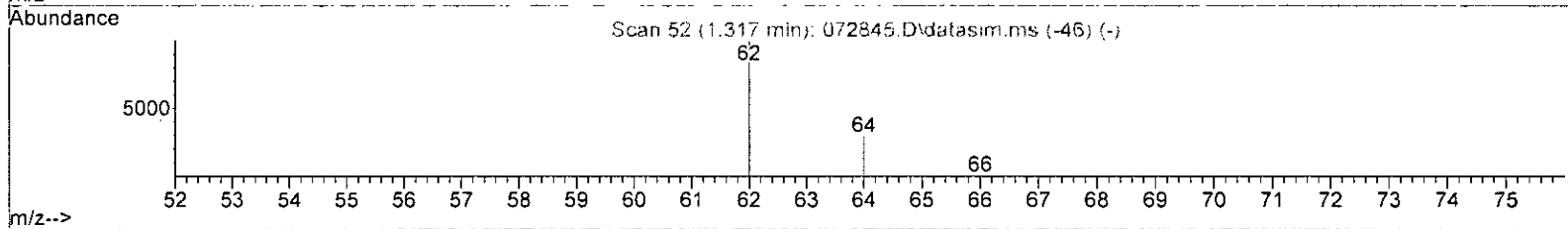
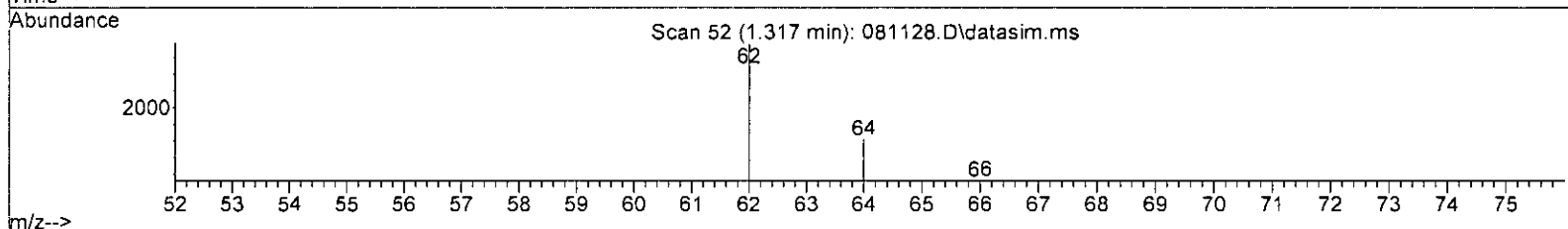
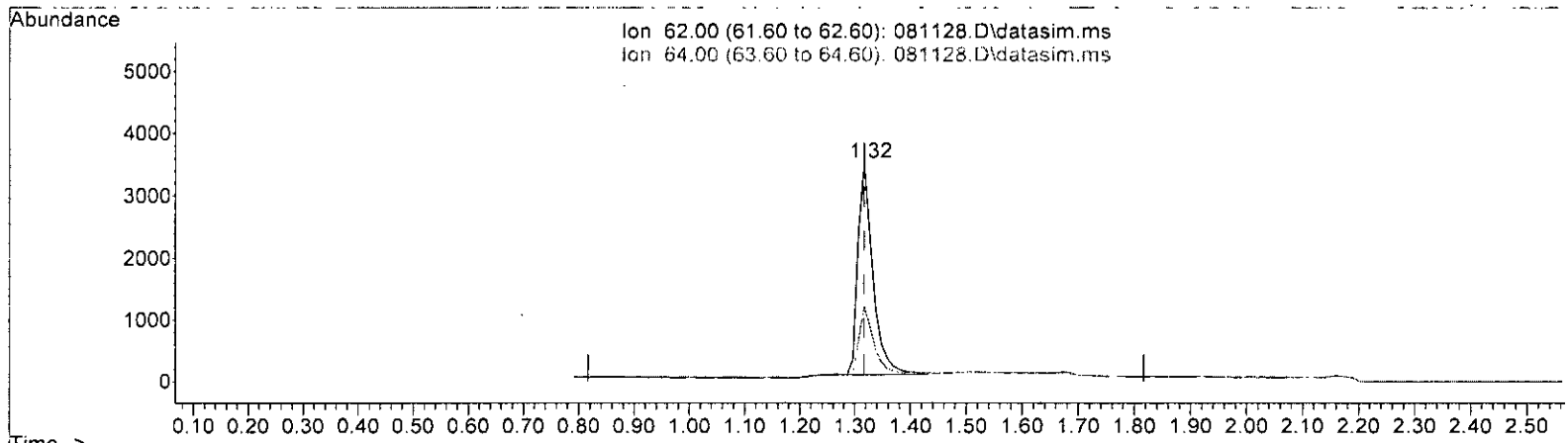
*M 8/14*

(6) Vinyl chloride (TMP)		
1.317min (+ 0.000)	1.157 ppb	
response	7101	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	33.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081128.D  
 Acq On : 11 Aug 2023 04:22 pm  
 Operator : MD  
 Sample : 308175-02 1/10  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081128.D\data.ms

(6) Vinyl chloride (TMP) *vr 8/14*

1.317min (+ 0.000) 1.046 ppb m

response	6418		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	34.56	
0.00	0.00	0.00	
0.00	0.00	0.00	



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081128.D  
 Acq On : 11 Aug 2023 04:22 pm  
 Operator : MD  
 Sample : 308175-02 1/10  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

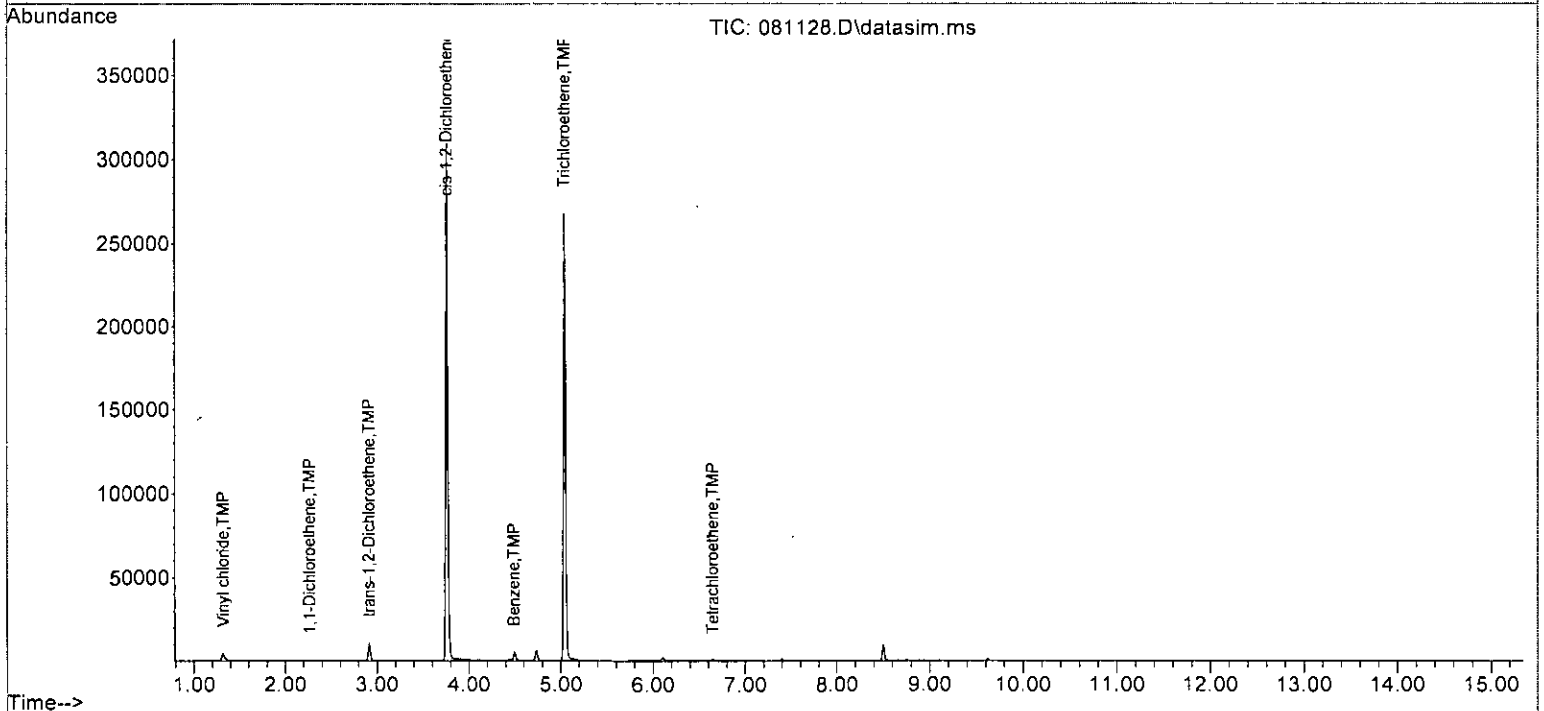
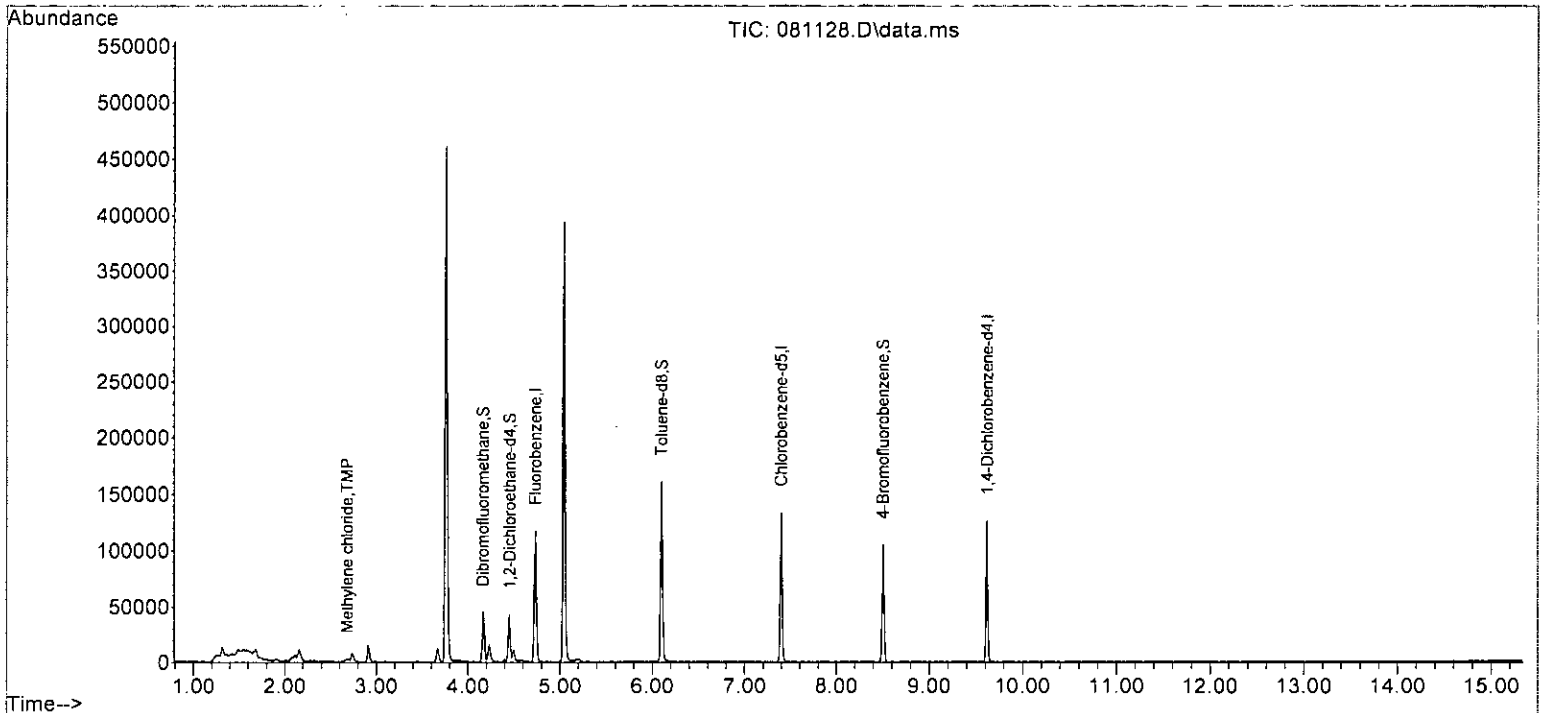
Quant Time: Aug 14 07:45:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

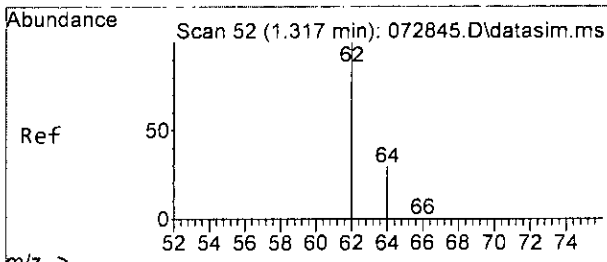
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	79845	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	63615	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	31948	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	22843	10.543	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.40%	
30) 1,2-Dichloroethane-d4	4.45	102	4877	10.165	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	101.60%	
35) Toluene-d8	6.10	98	87043	9.812	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	98.10%	
57) 4-Bromofluorobenzene	8.50	95	27240	9.466	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.70%	
Target Compounds						
						Qvalue
6] Vinyl chloride	1.32	62	6418m	1.046	ppb	
12] 1,1-Dichloroethene	2.26	96	883	0.399	ppb	86
14] Methylene chloride	2.68	84	520	0.267	ppb #	52
17] trans-1,2-Dichloroethene	2.91	96	5289	2.588	ppb	89
22] cis-1,2-Dichloroethene	3.76	96	170226	73.829	ppb	95
31] Benzene	4.49	78	6852	0.874	ppb	88
32] Trichloroethene	5.04	95	104993	44.192	ppb	91
45] Tetrachloroethene	6.64	164	210	0.063	ppb	97
51] m,p-Xylene	7.64	106	38	Below Cal		97
-----						

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081128.D  
 Acq On : 11 Aug 2023 04:22 pm  
 Operator : MD  
 Sample : 308175-02 1/10  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

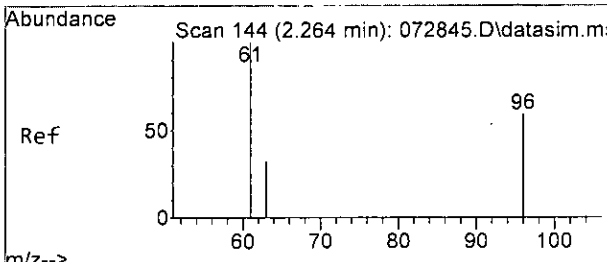
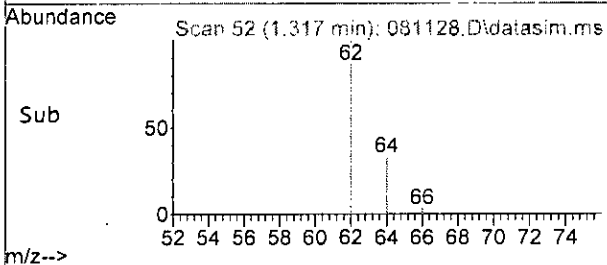
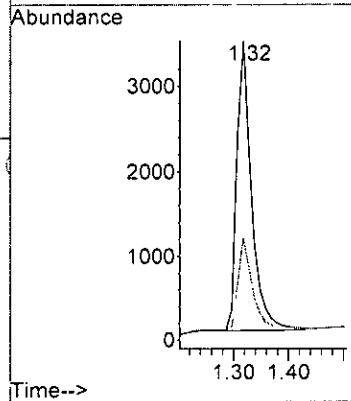
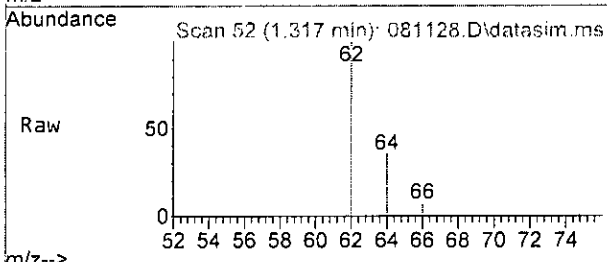
Quant Time: Aug 14 07:45:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





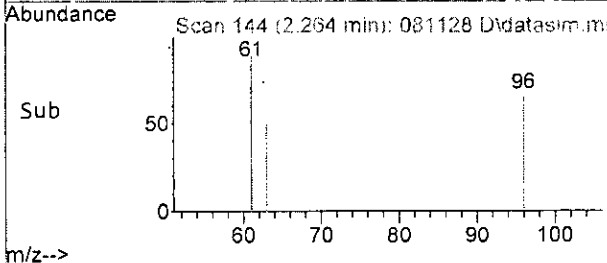
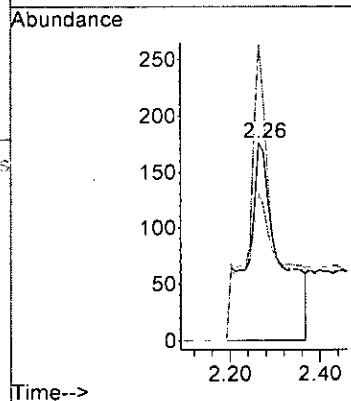
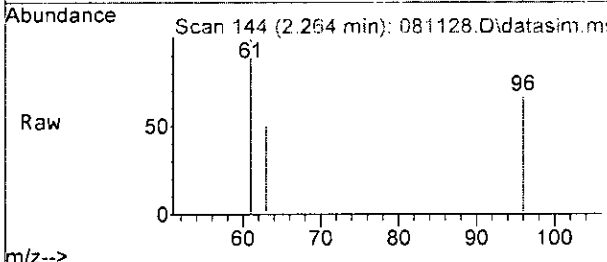
#6  
 Vinyl chloride  
 Concen: 1.046 ppb m  
 RT: 1.32 min Scan# 52  
 Delta R.T. 0.000 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

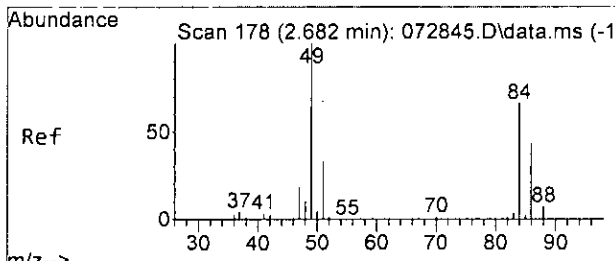
Tgt Ion: 62 Resp: 6418  
 Ion Ratio Lower Upper  
 62 100  
 64 34.6 0.0 58.9



#12  
 1,1-Dichloroethene  
 Concen: 0.399 ppb  
 RT: 2.26 min Scan# 144  
 Delta R.T. -0.000 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

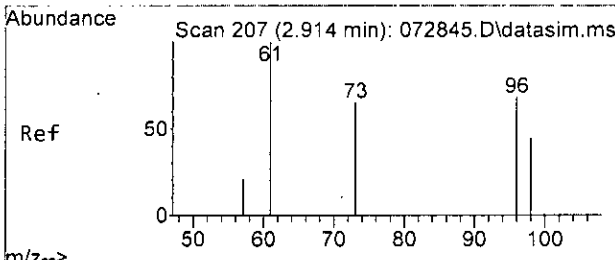
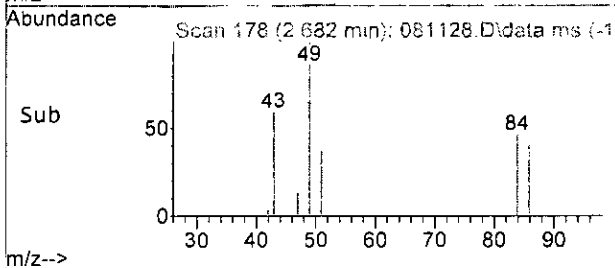
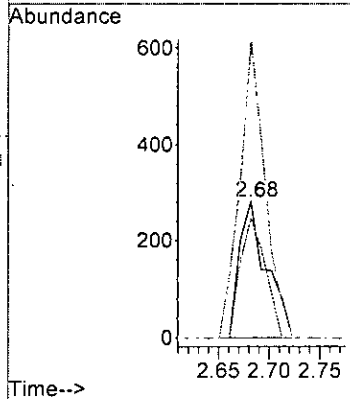
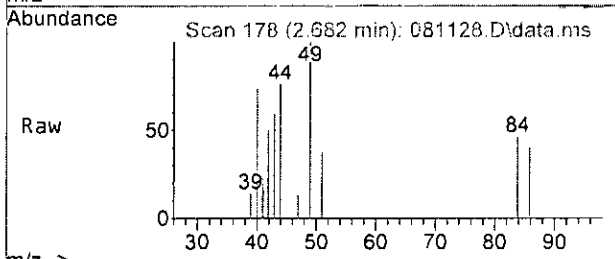
Tgt Ion: 96 Resp: 883  
 Ion Ratio Lower Upper  
 96 100  
 61 150.0 132.9 192.9  
 63 74.4 24.9 84.9





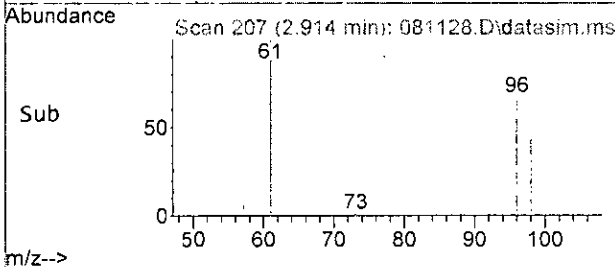
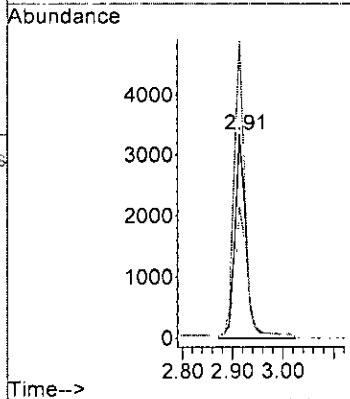
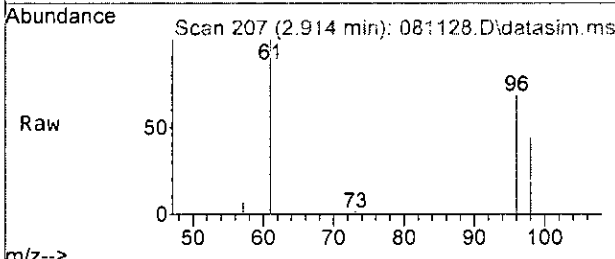
#14  
 Methylene chloride  
 Concen: 0.267 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

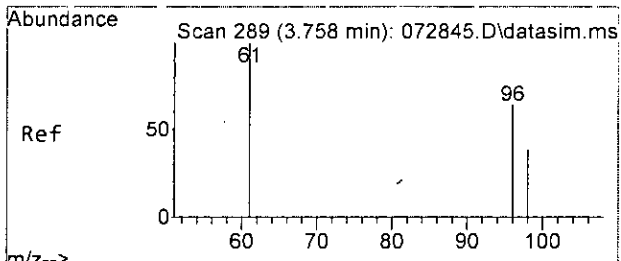
Tgt Ion	Resp	Lower	Upper
84	100		
86	87.2	29.1	89.1
49	218.1	122.1	182.1#



#17  
 trans-1,2-Dichloroethene  
 Concen: 2.588 ppb  
 RT: 2.91 min Scan# 207  
 Delta R.T. -0.000 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

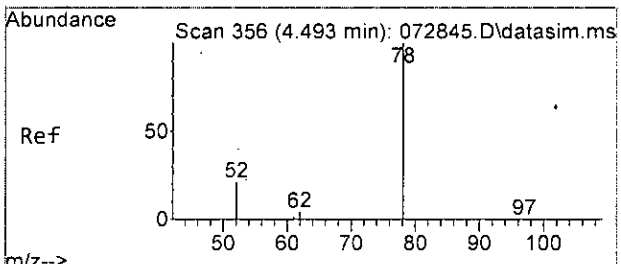
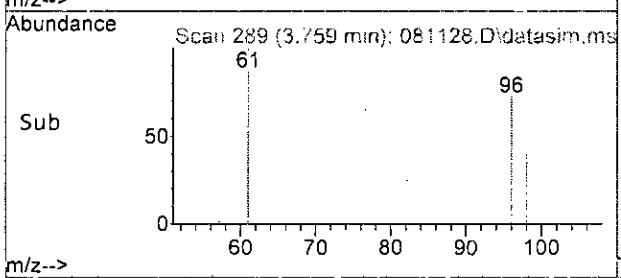
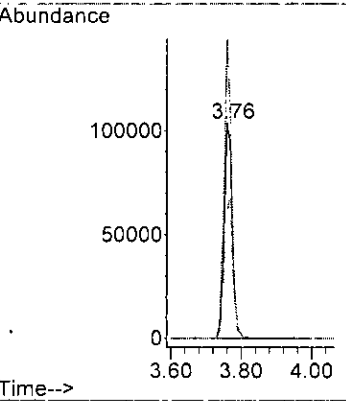
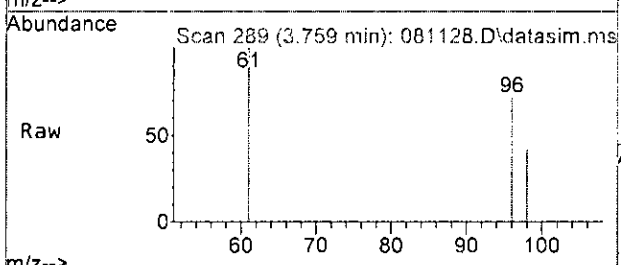
Tgt Ion	Resp	Lower	Upper
96	100		
61	147.3	135.6	195.6
98	64.7	30.8	90.8





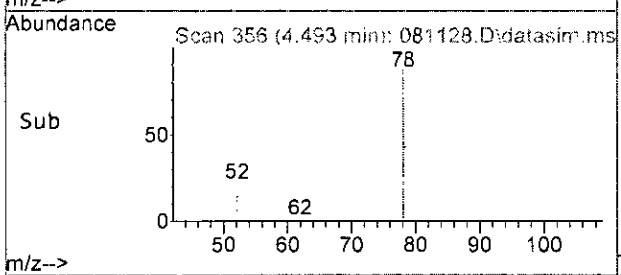
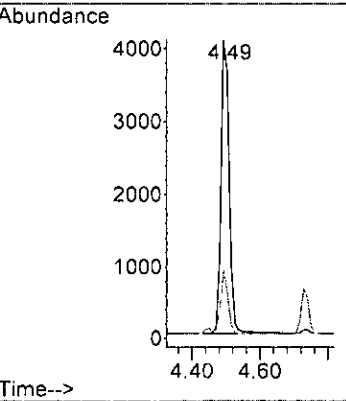
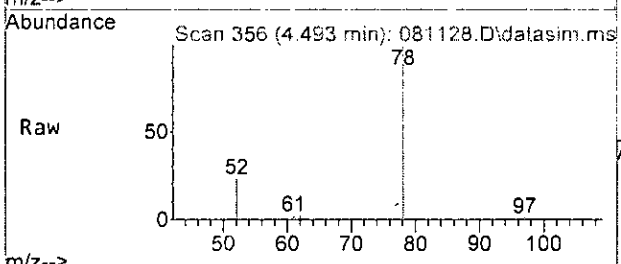
#22  
 cis-1,2-Dichloroethene  
 Concen: 73.829 ppb  
 RT: 3.76 min Scan# 289  
 Delta R.T. 0.001 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

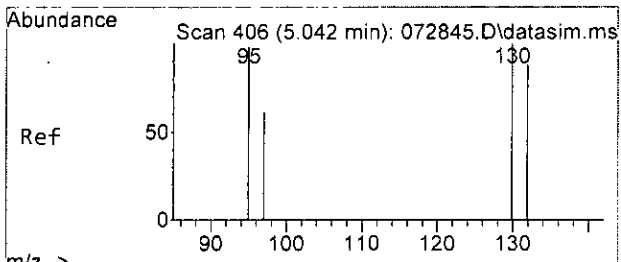
Tgt Ion	Resp	Lower	Upper
96	170226		
61	139.5	112.0	172.0
98	58.8	38.6	98.6



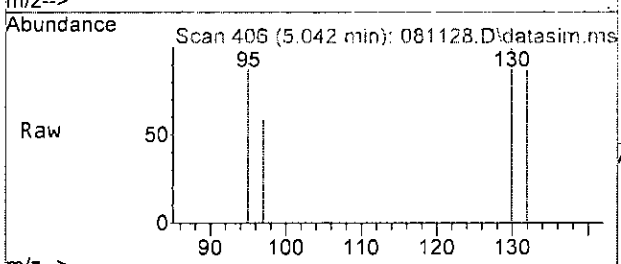
#31  
 Benzene  
 Concen: 0.874 ppb  
 RT: 4.49 min Scan# 356  
 Delta R.T. 0.000 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

Tgt Ion	Resp	Lower	Upper
78	6852		
52	22.2	0.0	47.1



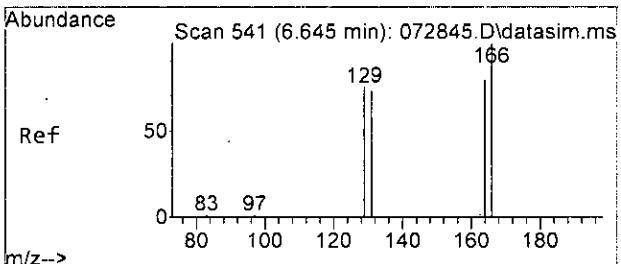
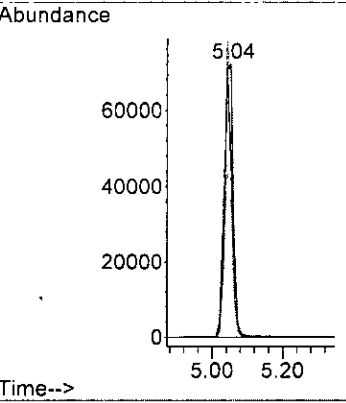
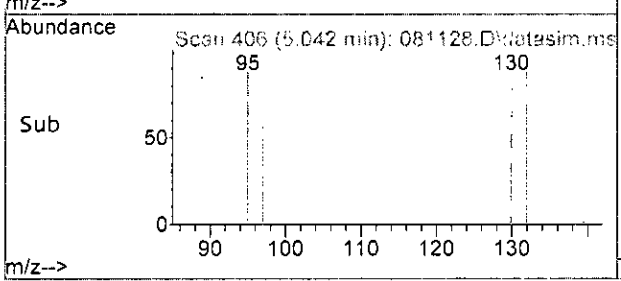


#32  
 Trichloroethene  
 Concen: 44.192 ppb  
 RT: 5.04 min Scan# 406  
 Delta R.T. 0.000 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

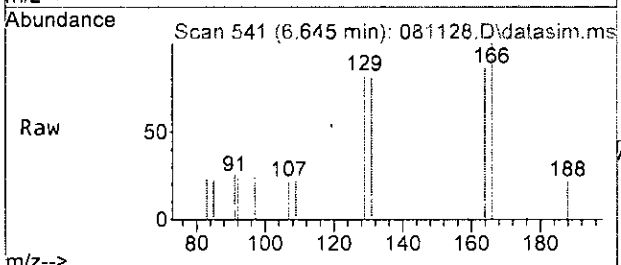


Tgt Ion: 95 Resp: 104993

Ion	Ratio	Lower	Upper
95	100		
97	63.1	30.8	90.8
130	108.3	68.6	128.6
132	97.7	56.6	116.6

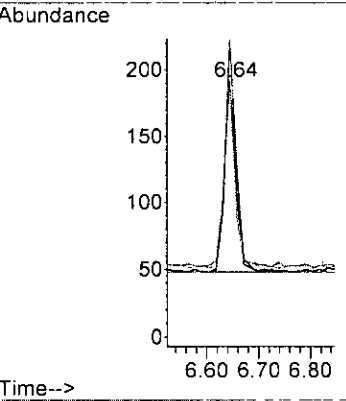
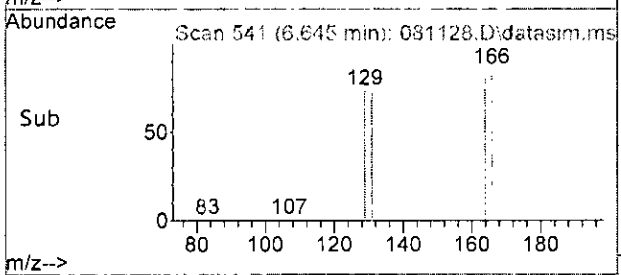


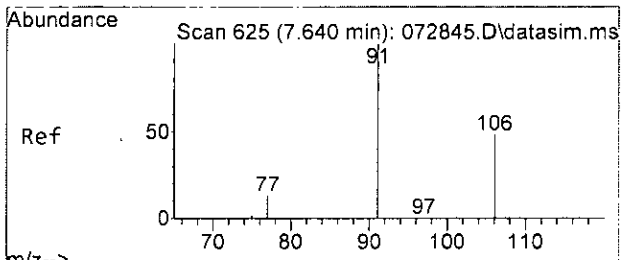
#45  
 Tetrachloroethene  
 Concen: 0.063 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm



Tgt Ion: 164 Resp: 210

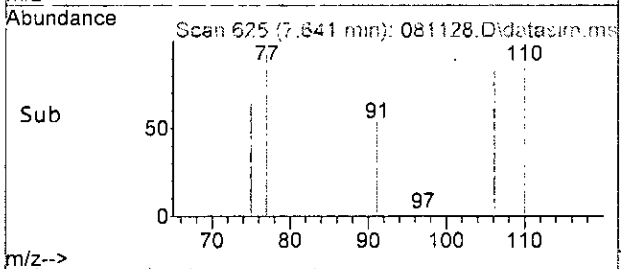
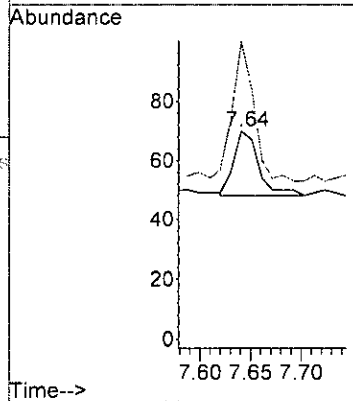
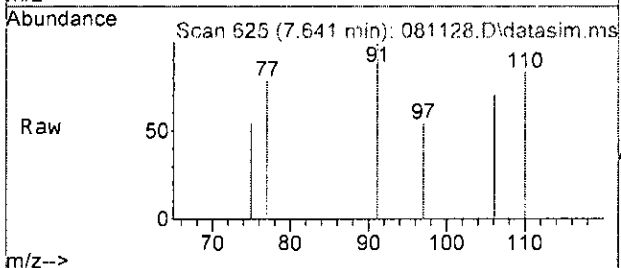
Ion	Ratio	Lower	Upper
164	100		
129	90.9	60.7	120.7
131	90.2	60.4	120.4
166	122.4	99.4	159.4





#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081128.D  
 Acq: 11 Aug 2023 04:22 pm

Tgt Ion:106 Resp: 38  
 Ion Ratio Lower Upper  
 106 100  
 91 213.6 178.3 238.3



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081128.D  
 Acq On : 11 Aug 2023 04:22 pm  
 Operator : MD  
 Sample : 308175-02 1/10  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	79845	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	63615	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	31948	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	22843	10.543	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.40%		
30) 1,2-Dichloroethane-d4	4.45	102	4877	10.165	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	101.60%		
35) Toluene-d8	6.10	98	87043	9.812	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	98.10%		
57) 4-Bromofluorobenzene	8.50	95	27240	9.466	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.70%		
Target Compounds							
							Qvalue
2) Ethanol	2.32	45	74	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	1056	N.D.			
6] Vinyl chloride	1.32	62	6418m	1.046	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.32	45	74	No Calib	#		
11) Acetone	2.32	58	269	N.D.			
12] 1,1-Dichloroethene	2.26	96	883	0.399	ppb		86
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	520	0.267	ppb	#	52
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.91	96	5289	2.588	ppb		89
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.68	77	69	N.D.			
22] cis-1,2-Dichloroethene	3.76	96	170226	73.829	ppb		95
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.50	73	154	N.D.			
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.49	78	6852	0.874	ppb		88
32] Trichloroethene	5.04	95	104993	44.192	ppb		91
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081128.D  
 Acq On : 11 Aug 2023 04:22 pm  
 Operator : MD  
 Sample : 308175-02 1/10  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

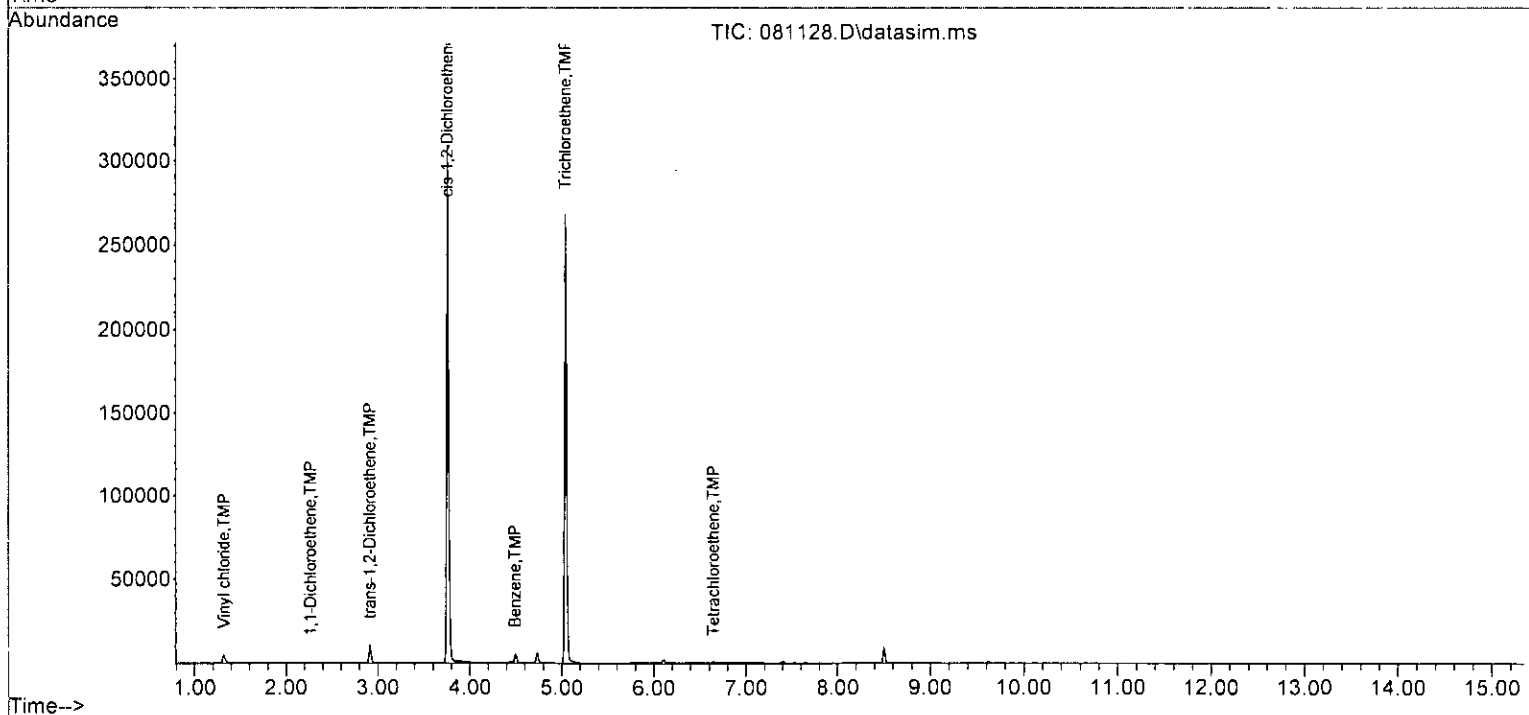
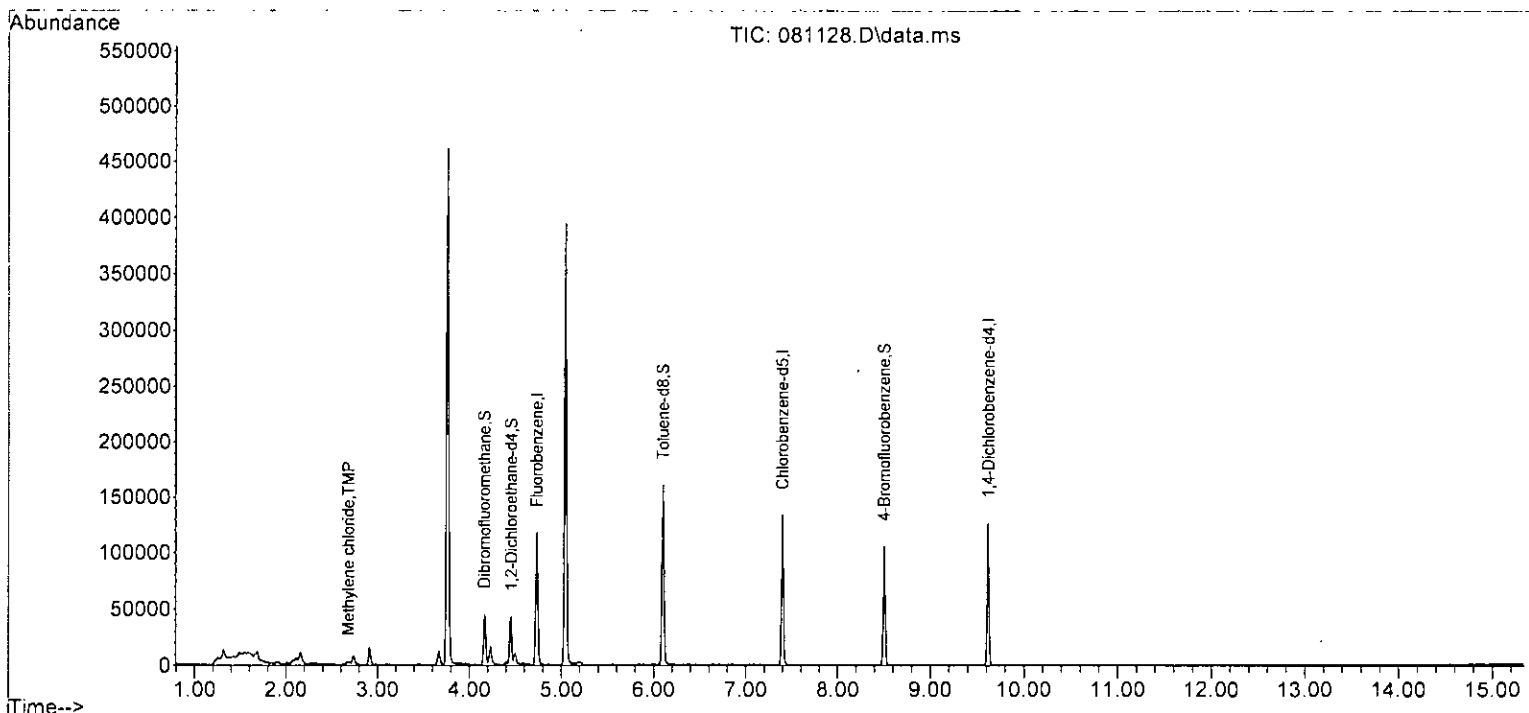
Quant Time: Aug 14 07:45:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40) Toluene	6.16	92	136	N.D.	
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.38	83	62	N.D.	
43) 2-Hexanone	6.84	43	157	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.64	164	210	0.063 ppb	97
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49) Ethylbenzene	7.53	91	173	N.D.	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.64	106	38	Below Cal	97
52) o-Xylene	0.00		0	N.D.	
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	0.00		0	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	0.00		0	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	
63) 2-Chlorotoluene	0.00		0	N.D.	
64) 4-Chlorotoluene	0.00		0	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	
67) sec-Butylbenzene	0.00		0	N.D.	
68) p-Isopropyltoluene	0.00		0	N.D.	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	0.00		0	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081128.D  
 Acq On : 11 Aug 2023 04:22 pm  
 Operator : MD  
 Sample : 308175-02 1/10  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

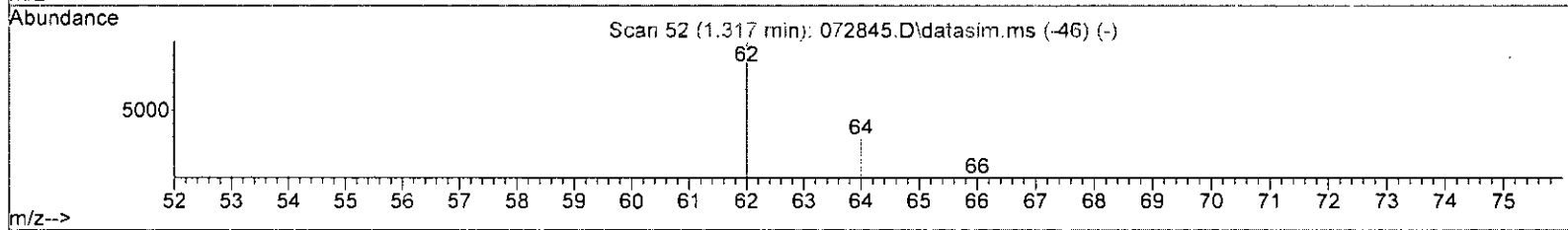
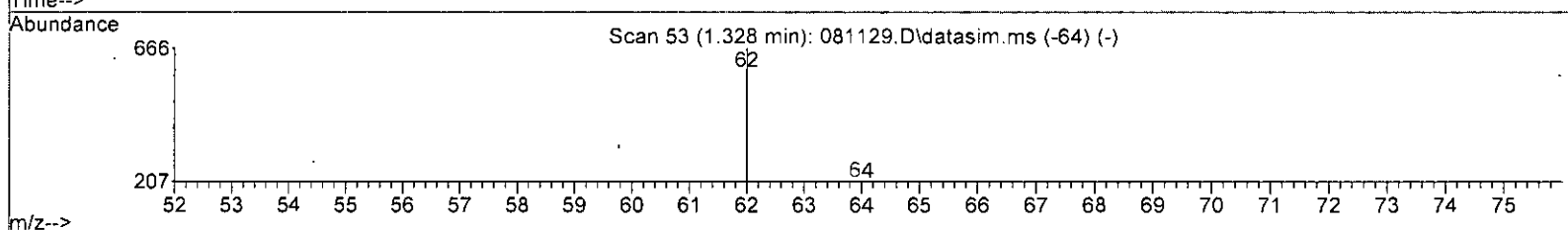
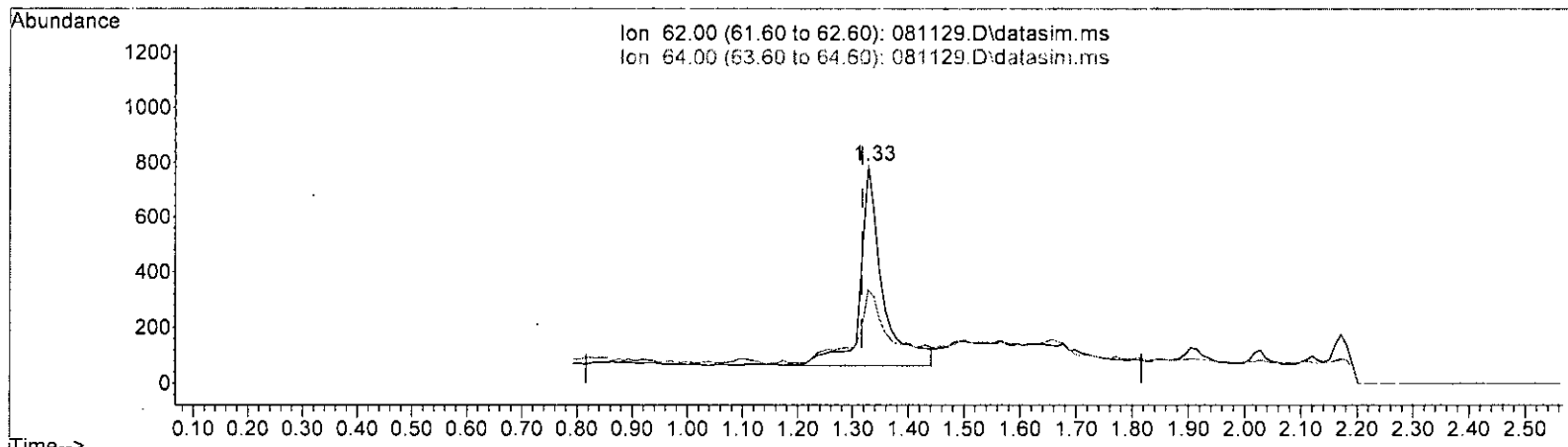
Quant Time: Aug 14 07:45:24 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



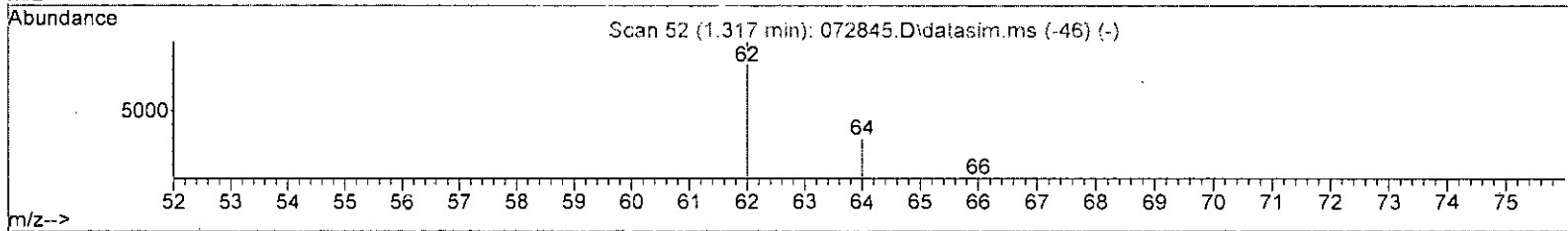
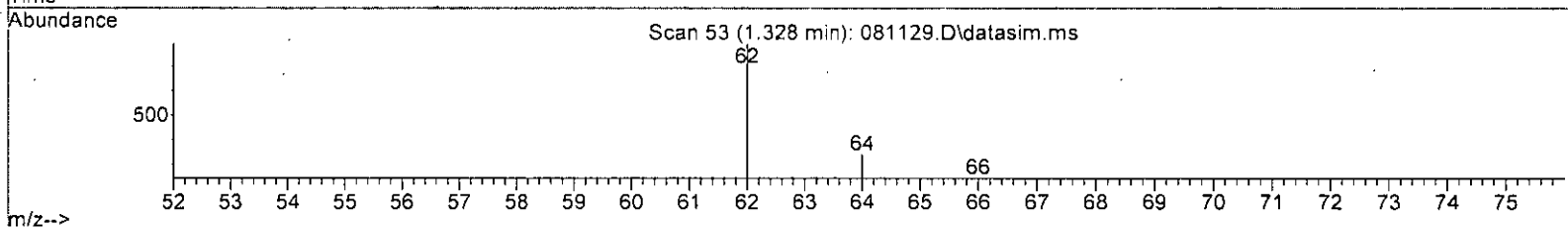
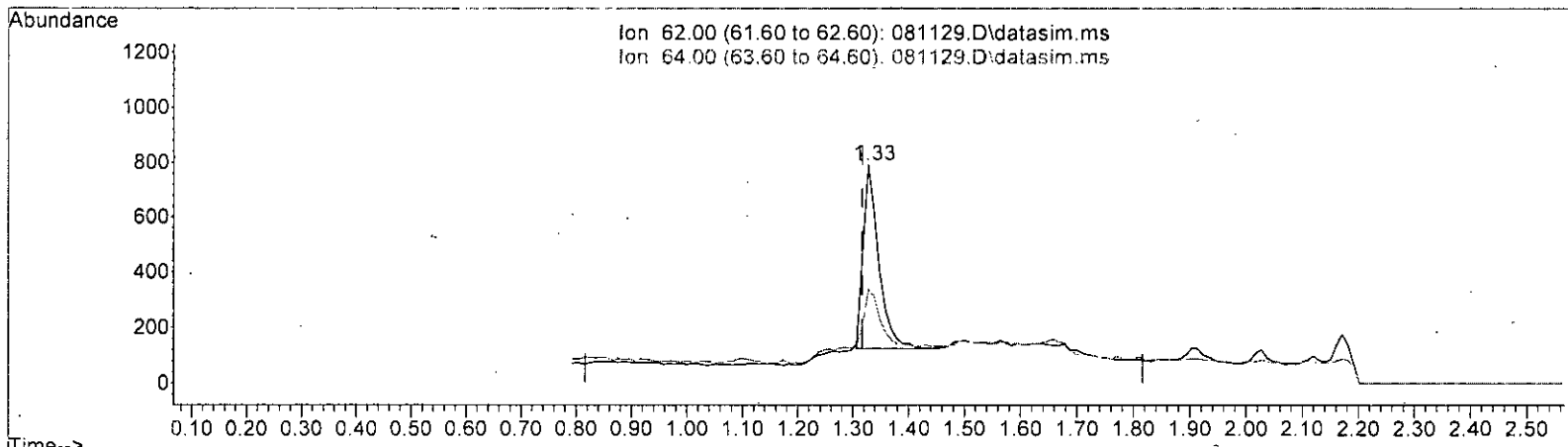
TIC: 081129.D\data.ms

(6) Vinyl chloride (TMP)			
1.328min (+ 0.011) 0.323 ppb			
response	2033		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	35.12	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



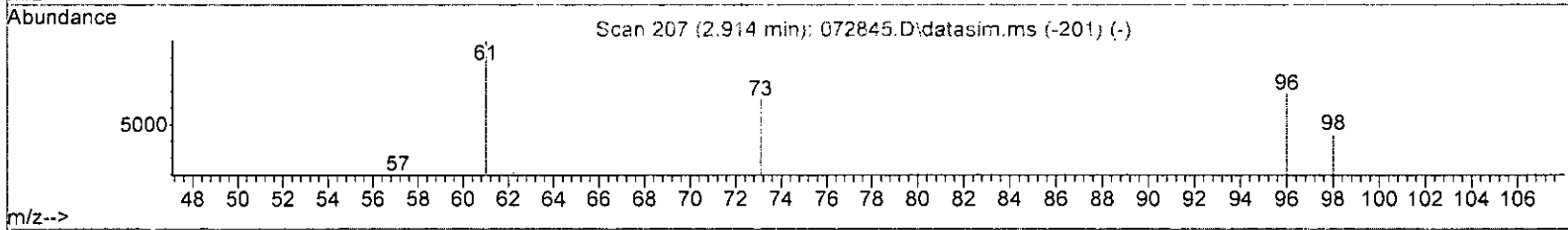
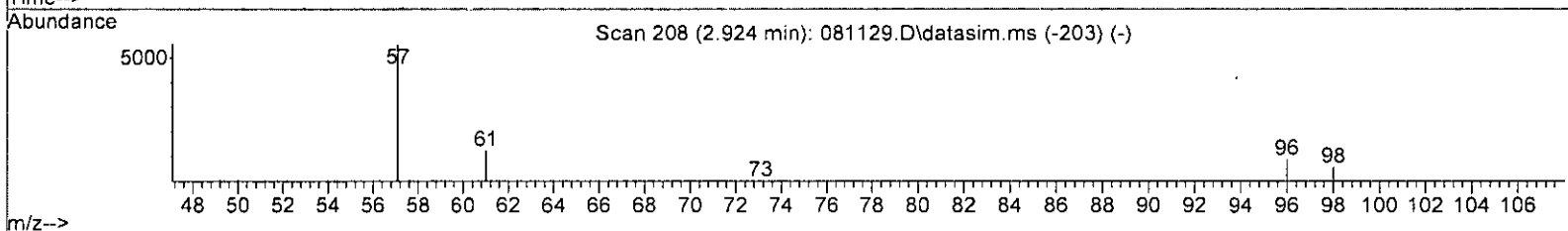
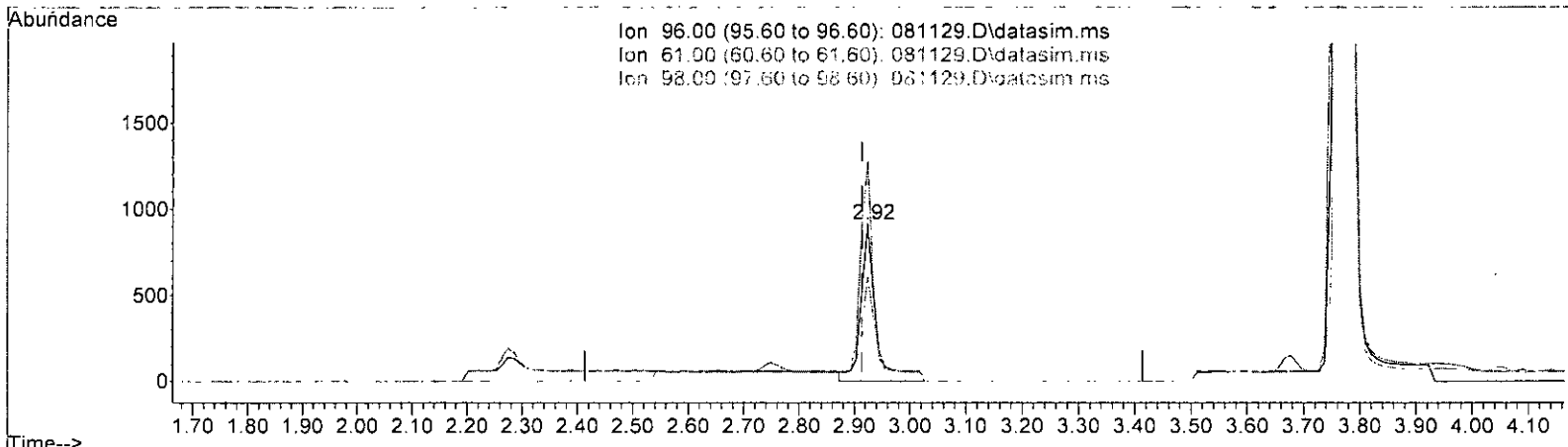
TIC: 081129.D\data.ms

(6) Vinyl chloride (TMP)			
1.328min (+ 0.011) 0.205 ppb m			
response	1289		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.90	42.66	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081129.D\data.ms

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

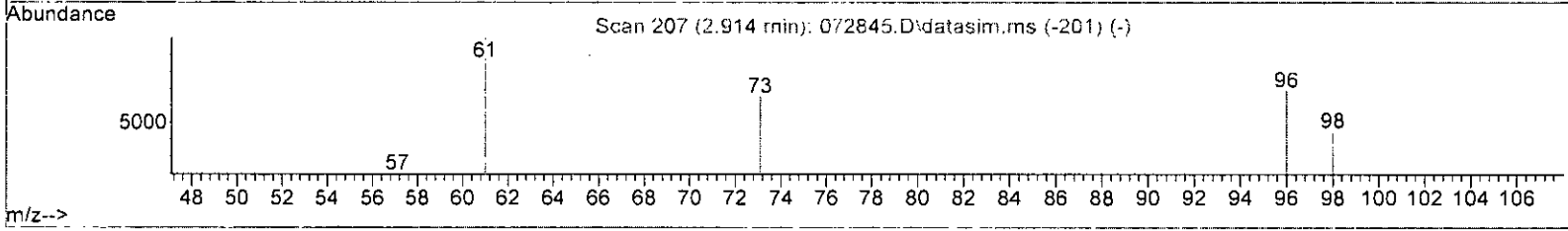
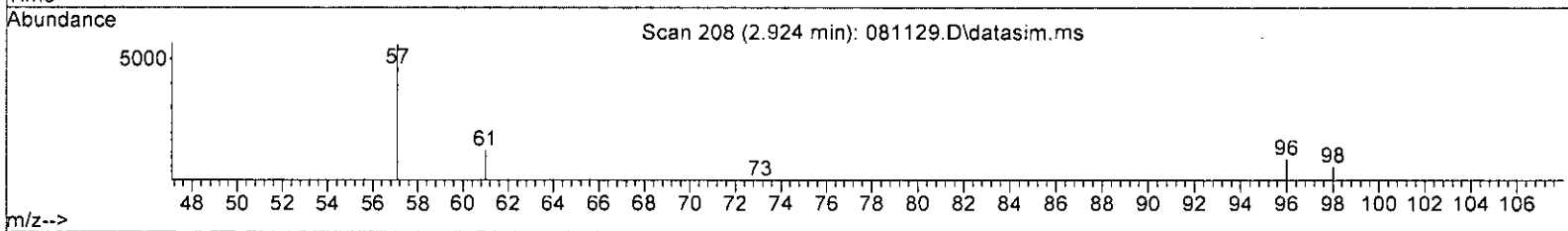
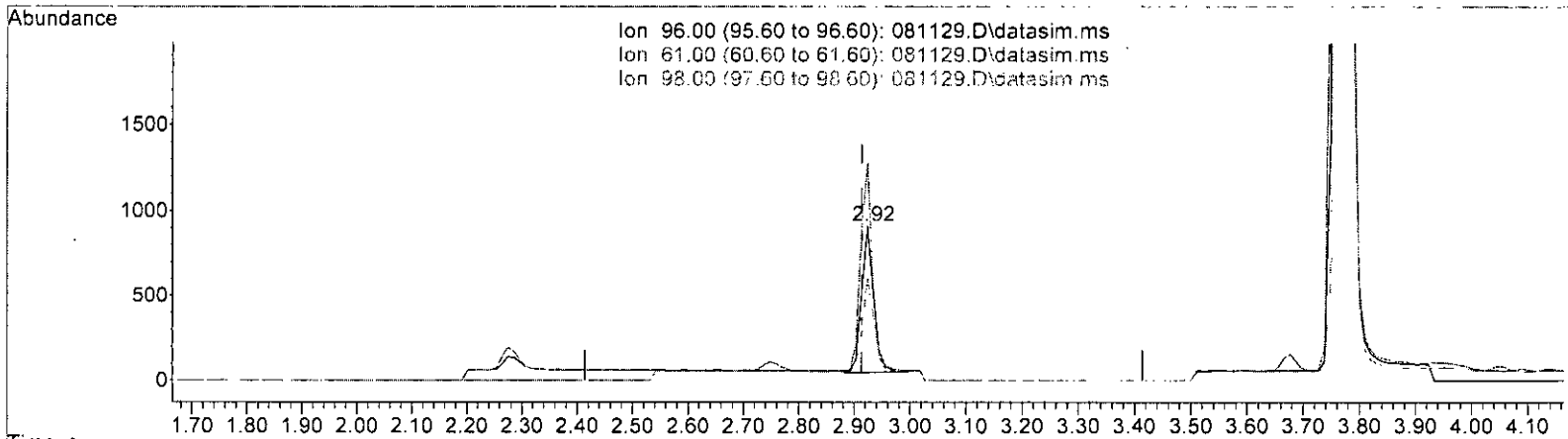
2.924min (+ 0.010) 0.826 ppb

response	1755
Ion	Exp% Act%
96.00	100.00 100.00
61.00	165.60 139.58
98.00	60.80 66.45
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081129.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.924min (+ 0.010) 0.617 ppb m  
 response 1320

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	139.58
98.00	60.80	66.45
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

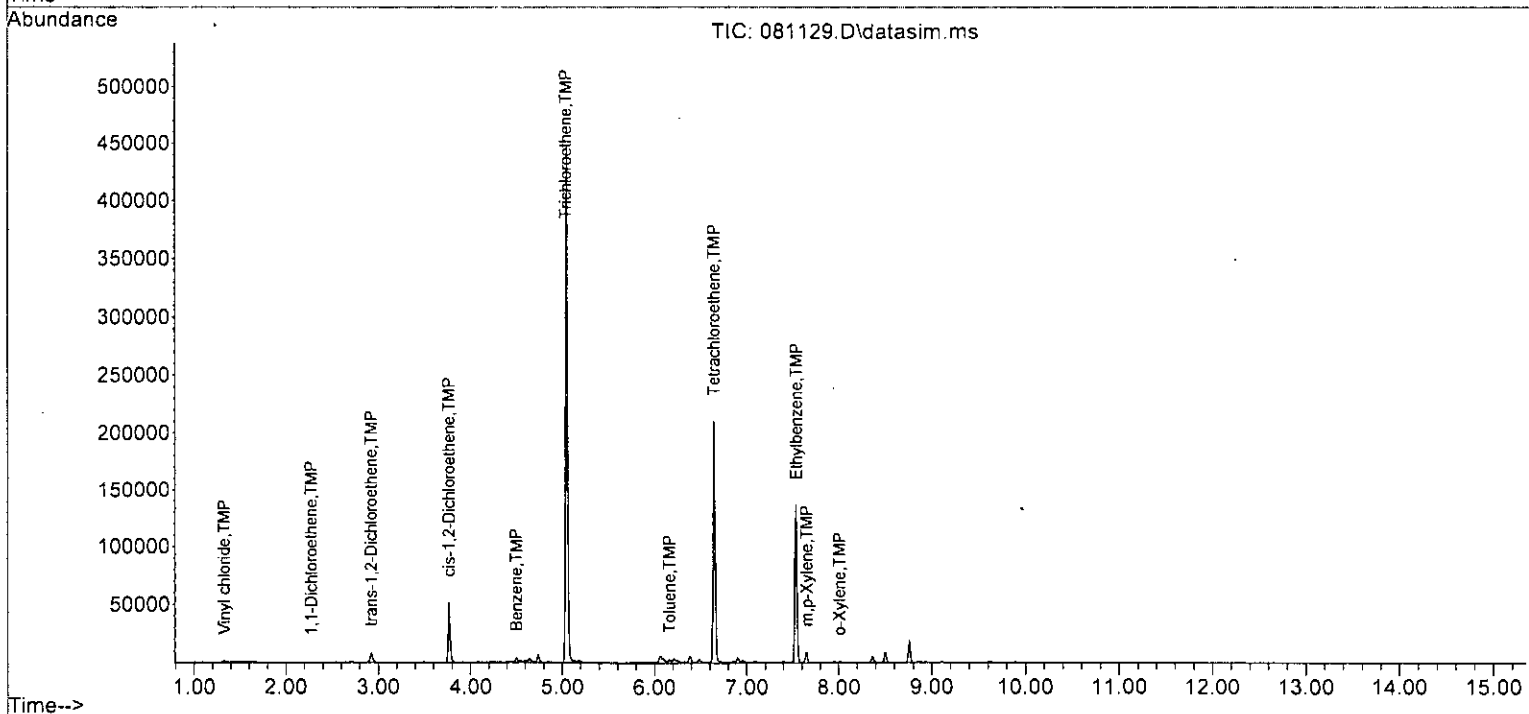
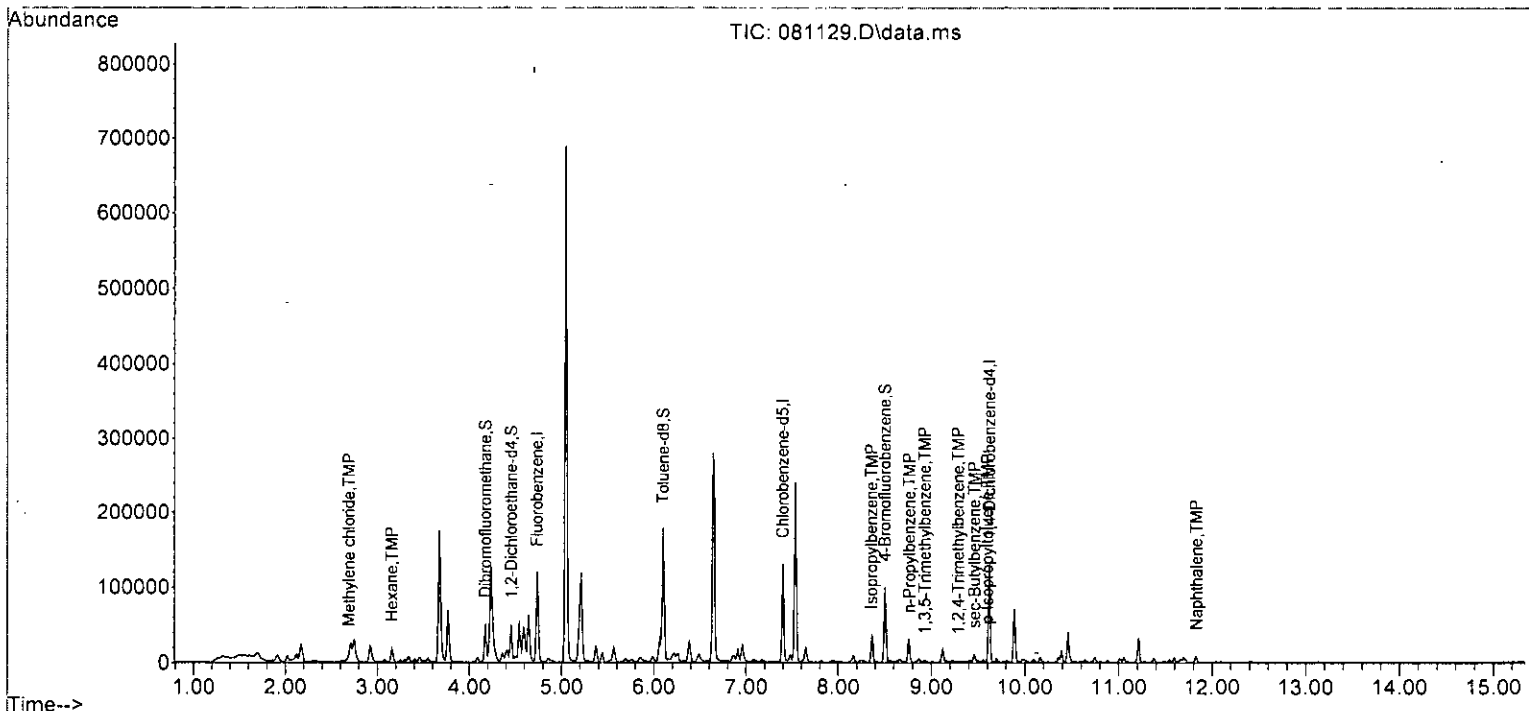
Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	81940	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	62227	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	31387	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	22899	10.299	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.00%		
30) 1,2-Dichloroethane-d4	4.45	102	5223	10.608	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	106.10%		
35) Toluene-d8	6.10	98	91339	10.033	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	100.30%		
57) 4-Bromofluorobenzene	8.50	95	27682	9.792	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	97.90%		
Target Compounds							
							Qvalue
6] Vinyl chloride	1.33	62	1289m	0.205	ppb		
12] 1,1-Dichloroethene	2.27	96	341	0.144	ppb		91
13) Hexane	3.16	57	6829	2.116	ppb		82
14) Methylene chloride	2.69	84	949	0.475	ppb	#	58
17] trans-1,2-Dichloroethene	2.92	96	1320m	0.617	ppb		
22] cis-1,2-Dichloroethene	3.77	96	26441	11.175	ppb		91
31] Benzene	4.50	78	4748	0.586	ppb		96
32] Trichloroethene	5.04	95	174823	71.712	ppb		98
40] Toluene	6.16	92	1443	0.219	ppb		94
45] Tetrachloroethene	6.64	164	72674	29.966	ppb		97
49] Ethylbenzene	7.54	91	140909	15.303	ppb		100
51] m,p-Xylene	7.65	106	4119	1.118	ppb	#	79
52] o-Xylene	8.01	106	211	0.050	ppb		96
54) Isopropylbenzene	8.36	105	22594	2.656	ppb		93
58) n-Propylbenzene	8.76	91	22426	2.148	ppb		95
60) 1,3,5-Trimethylbenzene	8.93	105	1451	0.200	ppb		86
66) 1,2,4-Trimethylbenzene	9.29	105	968	0.126	ppb		99
67) sec-Butylbenzene	9.46	105	4175	0.428	ppb		98
68) p-Isopropyltoluene	9.60	119	922	0.113	ppb		81
75) Naphthalene	11.83	128	5656	0.843	ppb		92
-----							

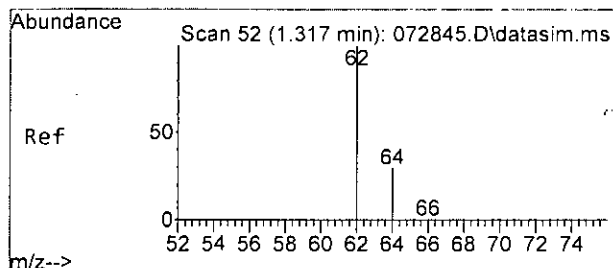
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

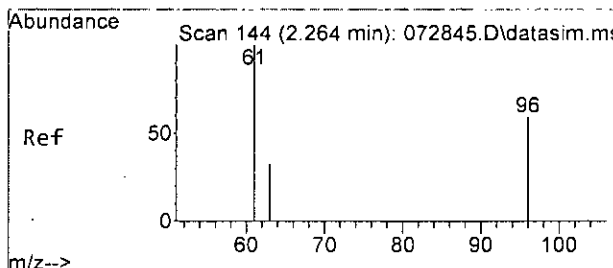
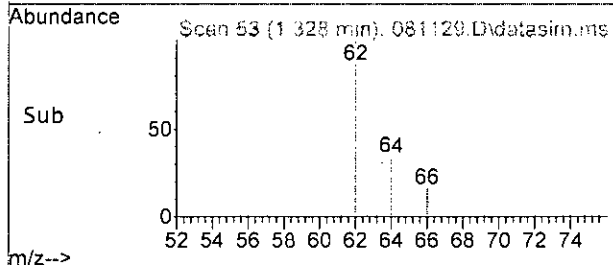
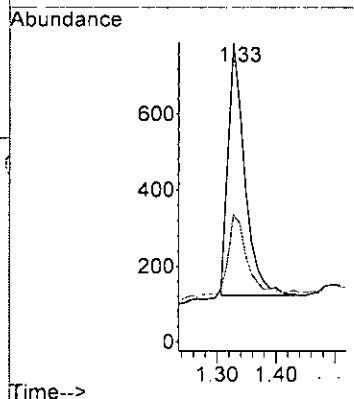
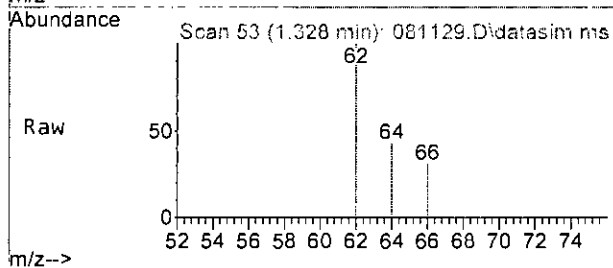






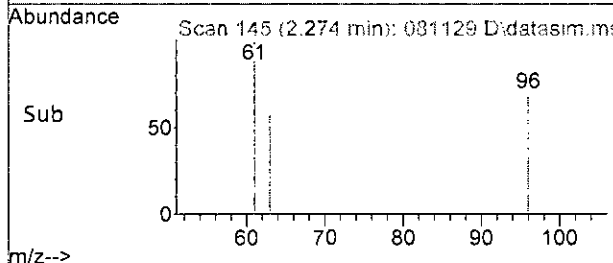
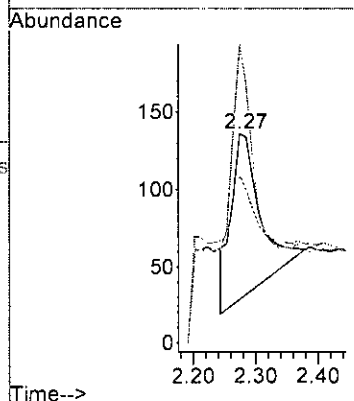
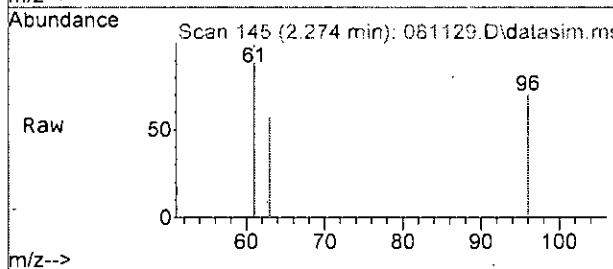
#6  
 Vinyl chloride  
 Concen: 0.205 ppb m  
 RT: 1.33 min Scan# 53  
 Delta R.T. 0.011 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

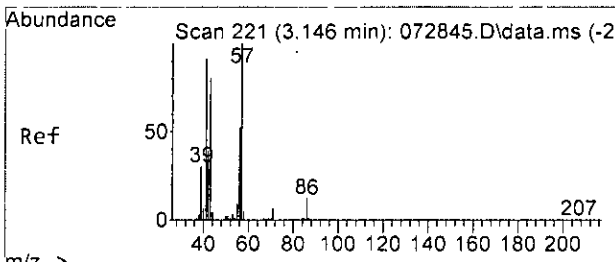
Tgt Ion: 62 Resp: 1289  
 Ion Ratio Lower Upper  
 62 100  
 64 42.7 0.0 58.9



#12  
 1,1-Dichloroethene  
 Concen: 0.144 ppb  
 RT: 2.27 min Scan# 145  
 Delta R.T. 0.010 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

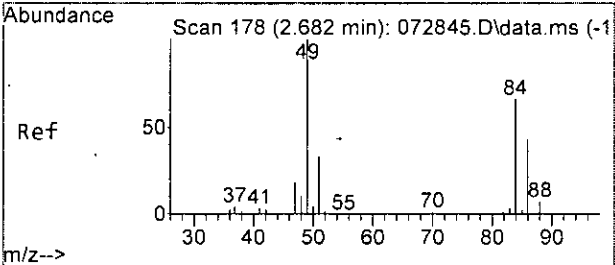
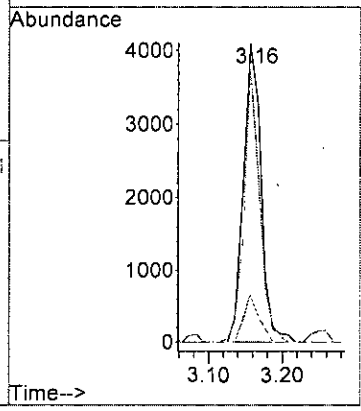
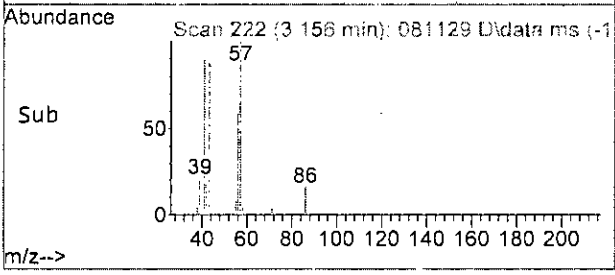
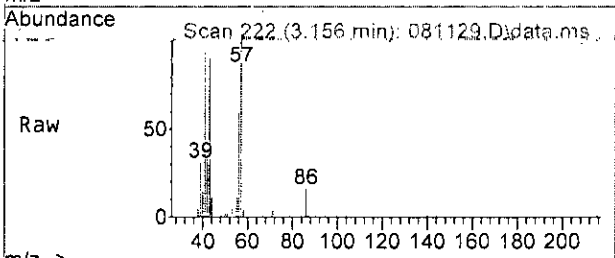
Tgt Ion: 96 Resp: 341  
 Ion Ratio Lower Upper  
 96 100  
 61 176.0 132.9 192.9  
 63 60.0 24.9 84.9





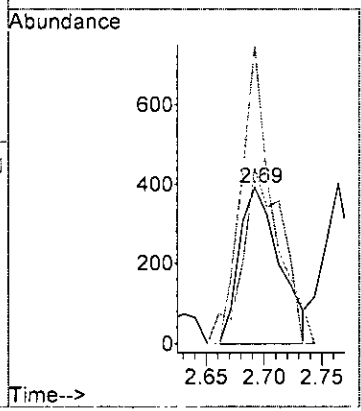
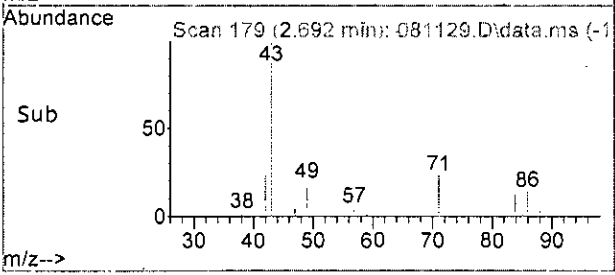
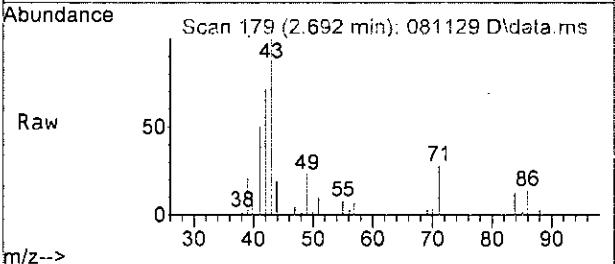
#13  
 Hexane  
 Concen: 2.116 ppb  
 RT: 3.16 min Scan# 222  
 Delta R.T. 0.010 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

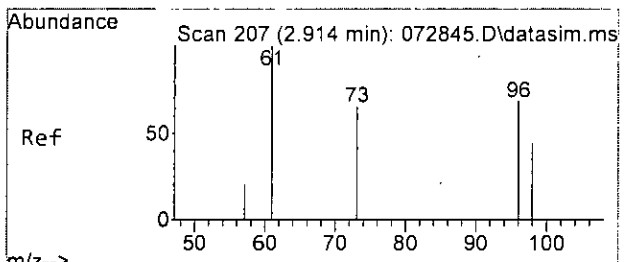
Tgt Ion	Resp	Lower	Upper
57	100		
43	91.4	44.5	104.5
86	16.2	0.0	42.4



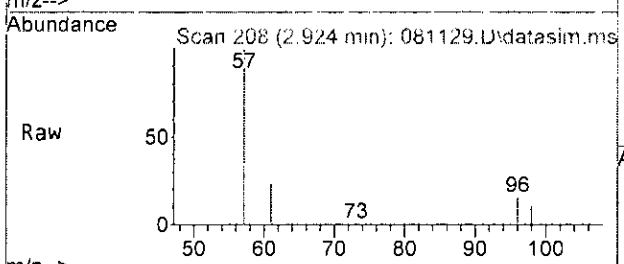
#14  
 Methylene chloride  
 Concen: 0.475 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

Tgt Ion	Resp	Lower	Upper
84	100		
86	112.5	29.1	89.1#
49	190.6	122.1	182.1#

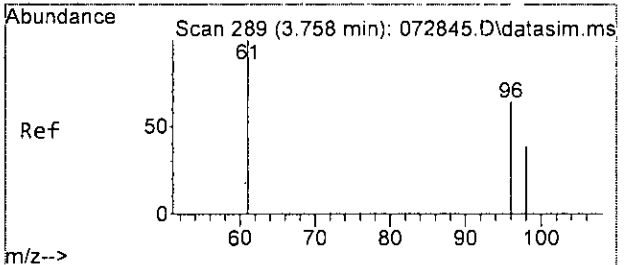
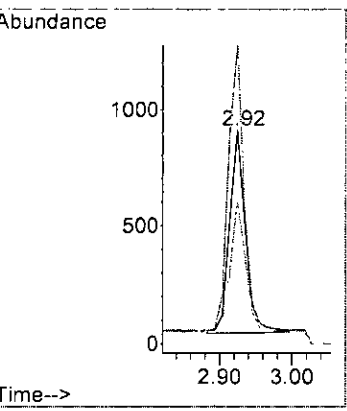
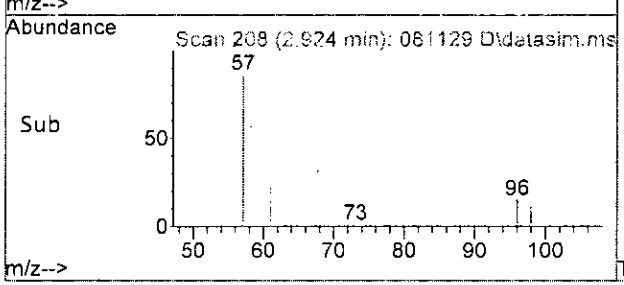




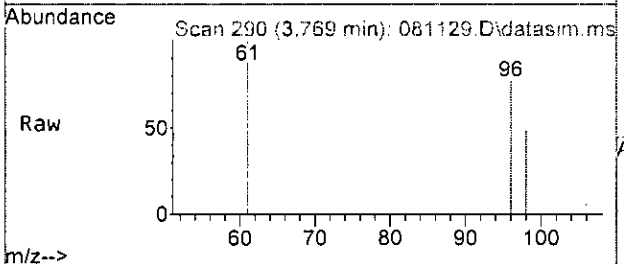
#17  
 trans-1,2-Dichloroethene  
 Concen: 0.617 ppb m  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm



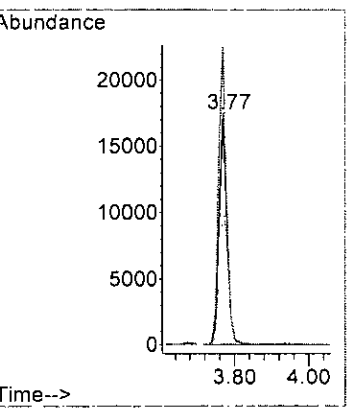
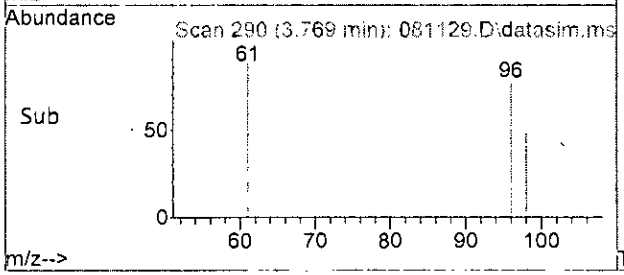
Tgt Ion: 96 Resp: 1320  
 Ion Ratio Lower Upper  
 96 100  
 61 139.6 135.6 195.6  
 98 66.4 30.8 90.8

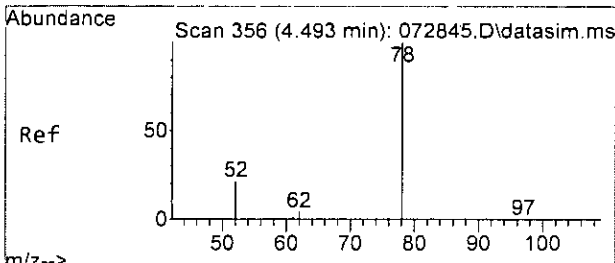


#22  
 cis-1,2-Dichloroethene  
 Concen: 11.175 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm



Tgt Ion: 96 Resp: 26441  
 Ion Ratio Lower Upper  
 96 100  
 61 129.8 112.0 172.0  
 98 63.6 38.6 98.6

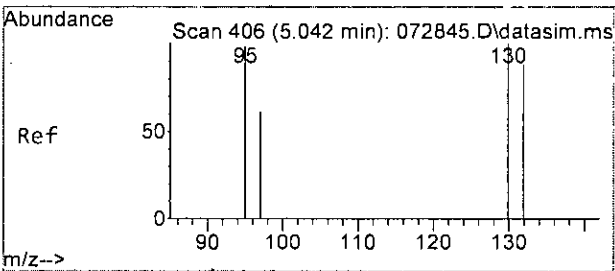
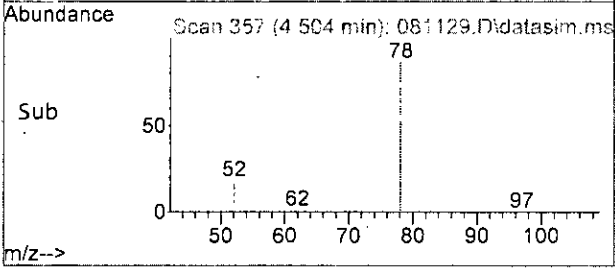
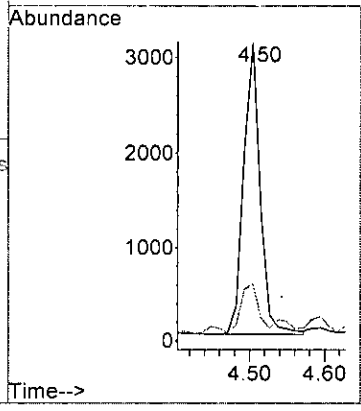
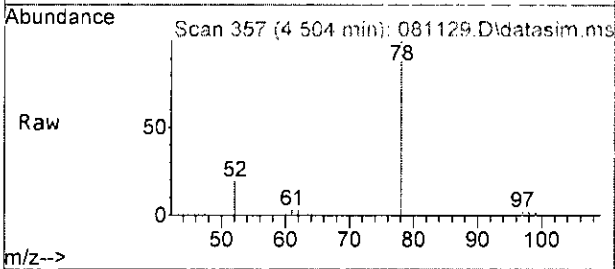




#31  
Benzene  
Concen: 0.586 ppb  
RT: 4.50 min Scan# 357  
Delta R.T. 0.011 min  
Lab File: 081129.D  
Acq: 11 Aug 2023 04:46 pm

Tgt Ion: 78 Resp: 4748

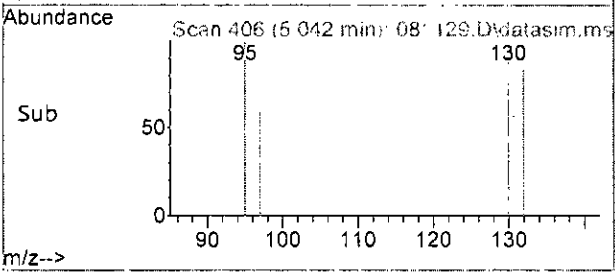
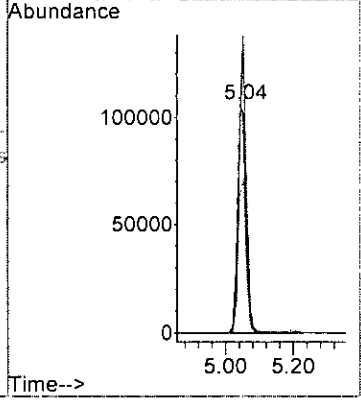
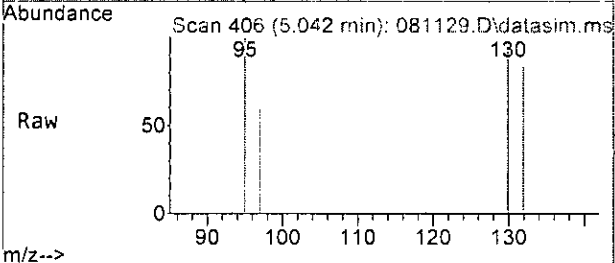
Ion	Ratio	Lower	Upper
78	100		
52	15.5	0.0	47.1

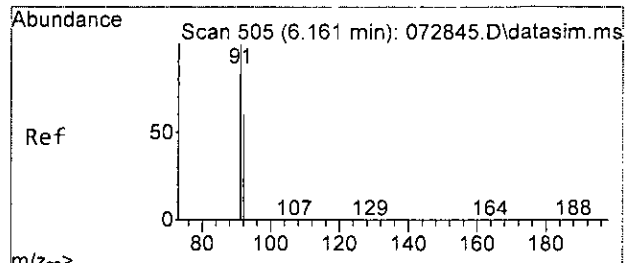


#32  
Trichloroethene  
Concen: 71.712 ppb  
RT: 5.04 min Scan# 406  
Delta R.T. 0.000 min  
Lab File: 081129.D  
Acq: 11 Aug 2023 04:46 pm

Tgt Ion: 95 Resp: 174823

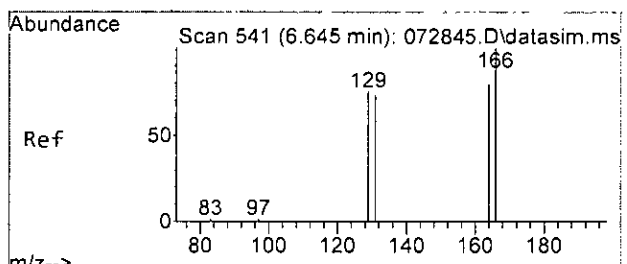
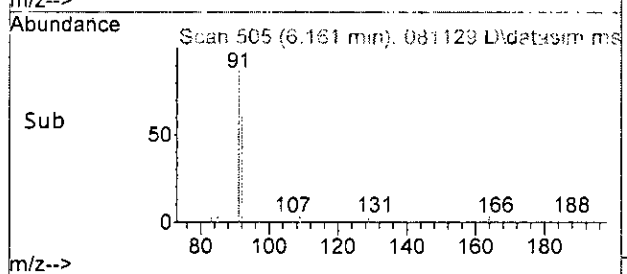
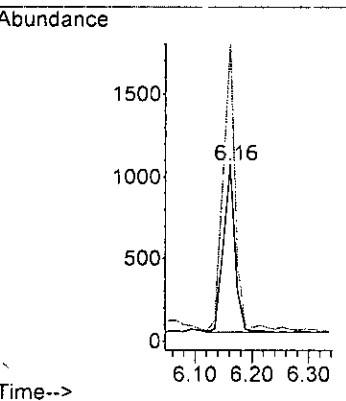
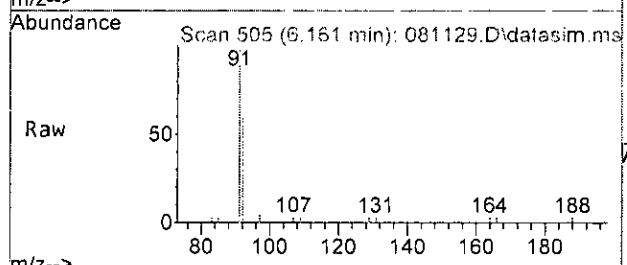
Ion	Ratio	Lower	Upper
95	100		
97	59.3	30.8	90.8
130	97.7	68.6	128.6
132	83.0	56.6	116.6





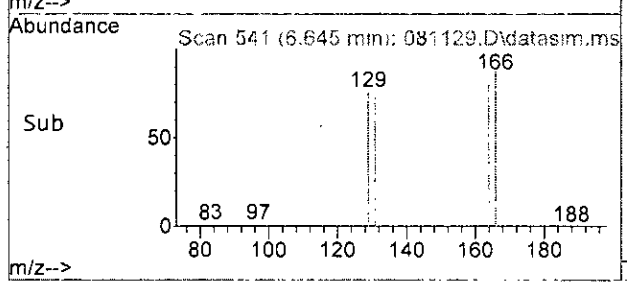
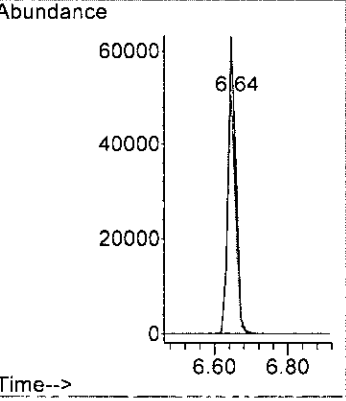
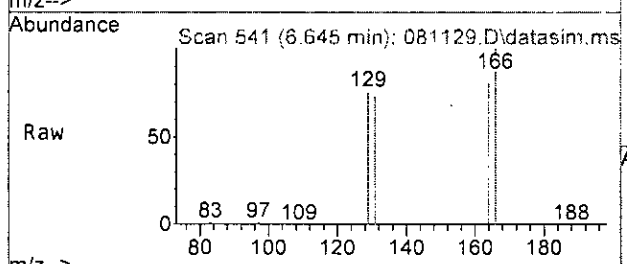
#40  
 Toluene  
 Concen: 0.219 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

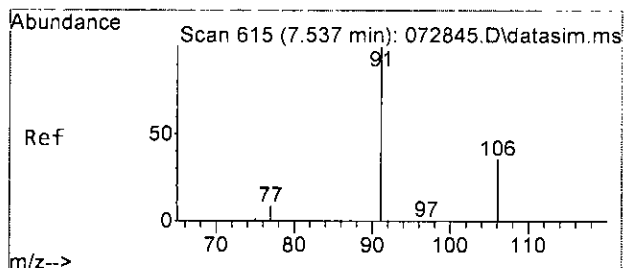
Tgt Ion	Resp	Lower	Upper
92	100		
91	170.7	133.3	193.3



#45  
 Tetrachloroethene  
 Concen: 29.966 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

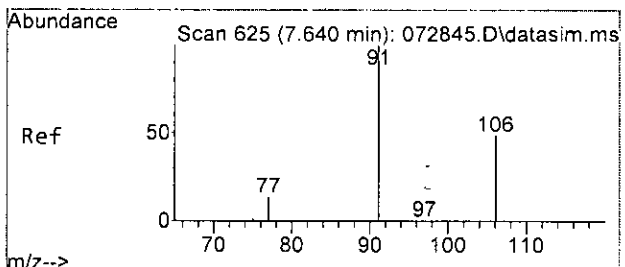
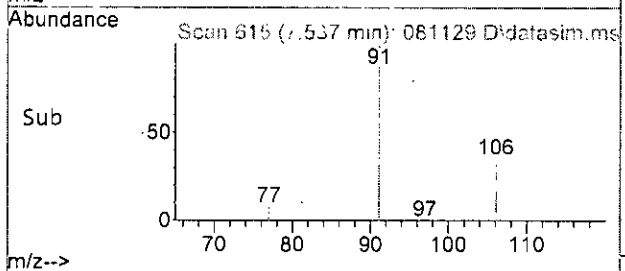
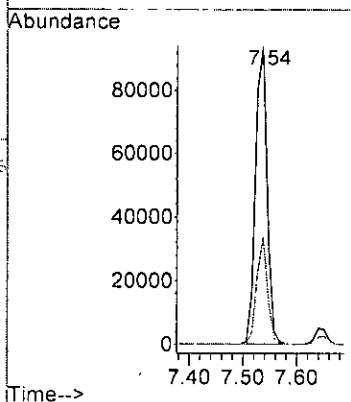
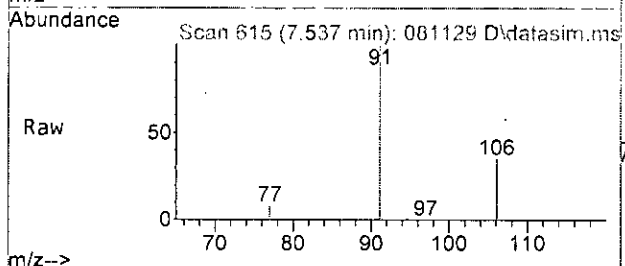
Tgt Ion	Resp	Lower	Upper
164	100		
129	94.9	60.7	120.7
131	91.7	60.4	120.4
166	125.7	99.4	159.4





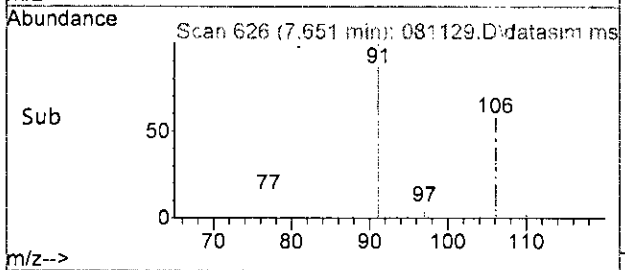
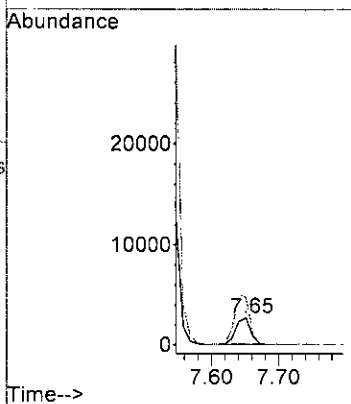
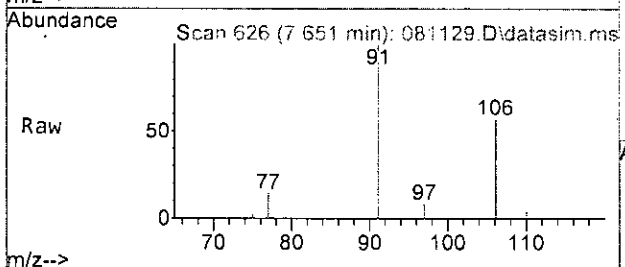
#49  
Ethylbenzene  
Concen: 15.303 ppb  
RT: 7.54 min Scan# 615  
Delta R.T. 0.000 min  
Lab File: 081129.D  
Acq: 11 Aug 2023 04:46 pm

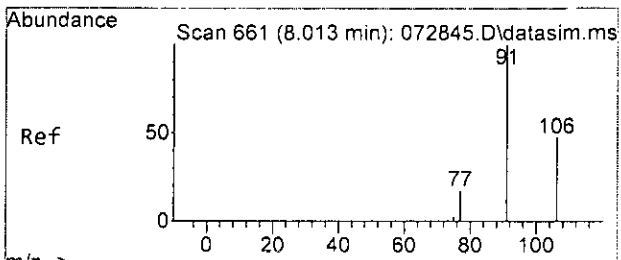
Tgt Ion: 91 Resp: 140909  
Ion Ratio Lower Upper  
91 100  
106 35.4 5.4 65.4



#51  
m,p-Xylene  
Concen: 1.118 ppb  
RT: 7.65 min Scan# 626  
Delta R.T. 0.011 min  
Lab File: 081129.D  
Acq: 11 Aug 2023 04:46 pm

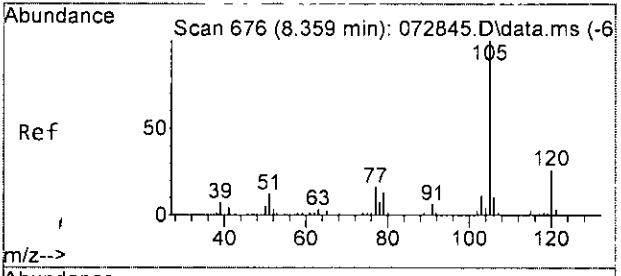
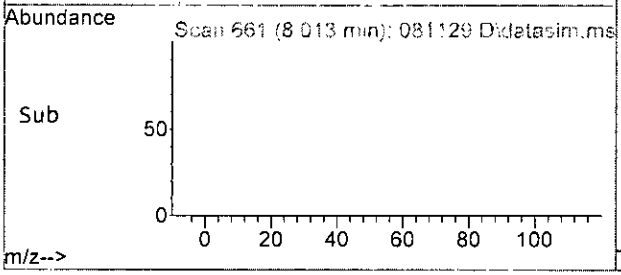
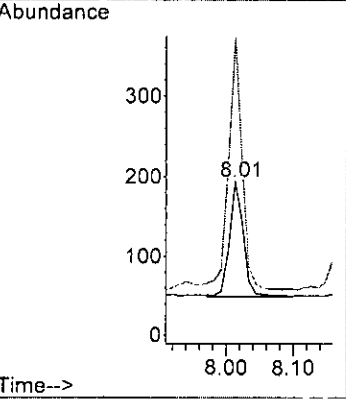
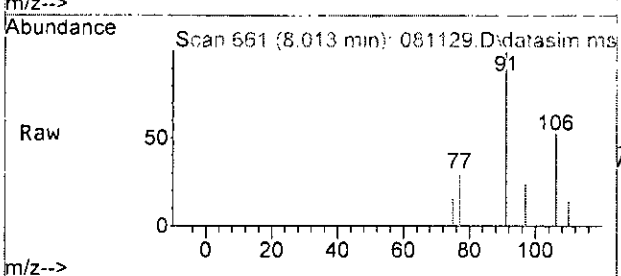
Tgt Ion: 106 Resp: 4119  
Ion Ratio Lower Upper  
106 100  
91 174.9 178.3 238.3#





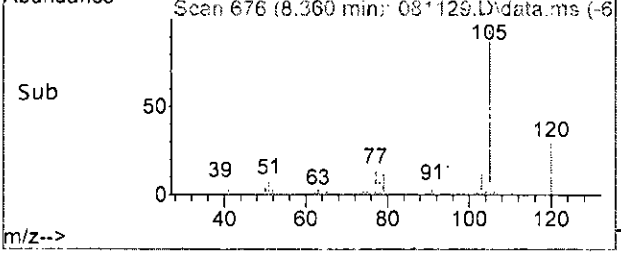
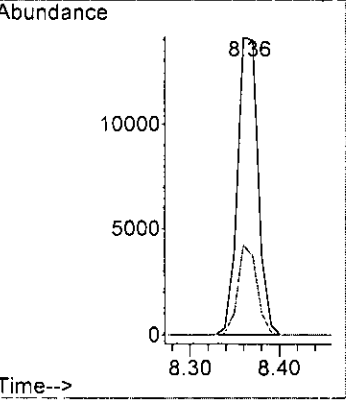
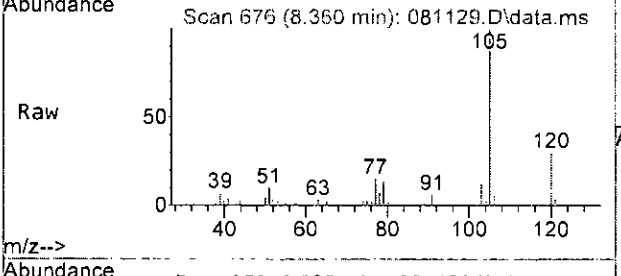
#52  
 o-Xylene  
 Concen: 0.050 ppb  
 RT: 8.01 min Scan# 661  
 Delta R.T. -0.000 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

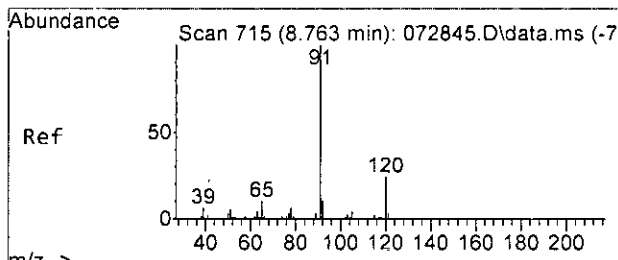
Tgt Ion	Resp	Lower	Upper
106	100		
91	217.2	181.1	241.1



#54  
 Isopropylbenzene  
 Concen: 2.656 ppb  
 RT: 8.36 min Scan# 676  
 Delta R.T. 0.001 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

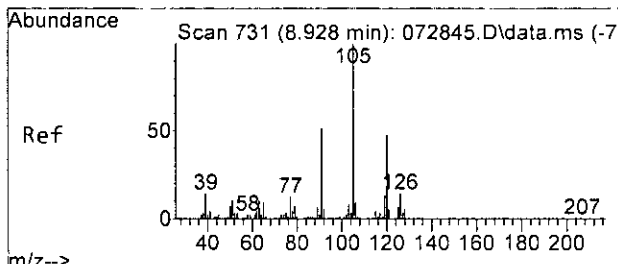
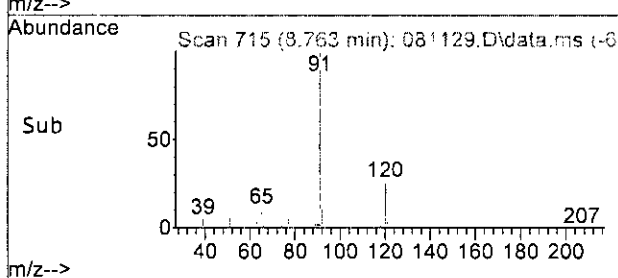
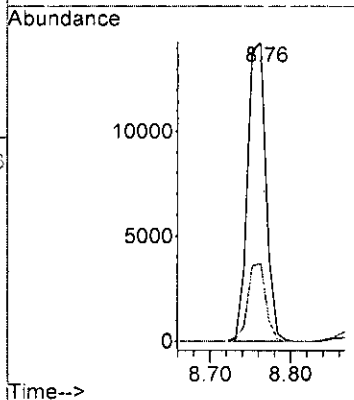
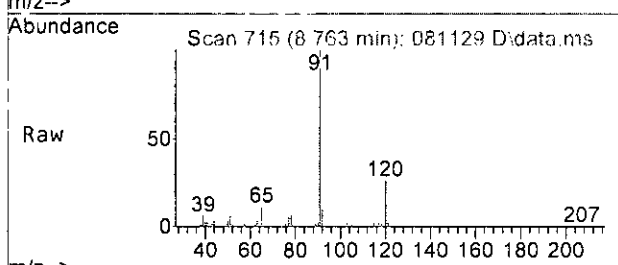
Tgt Ion	Resp	Lower	Upper
105	100		
120	29.7	0.0	56.3





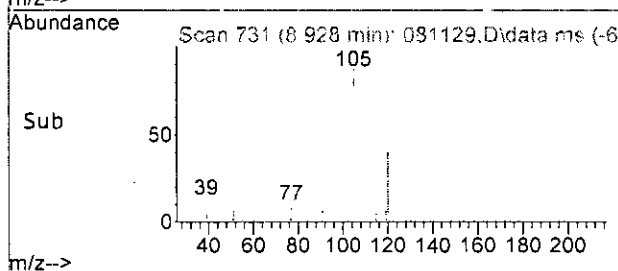
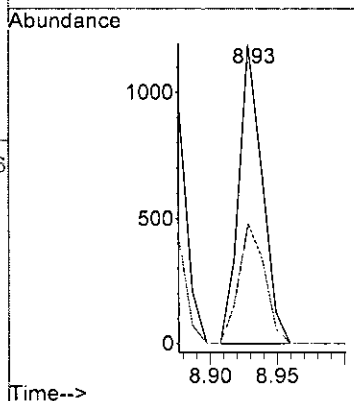
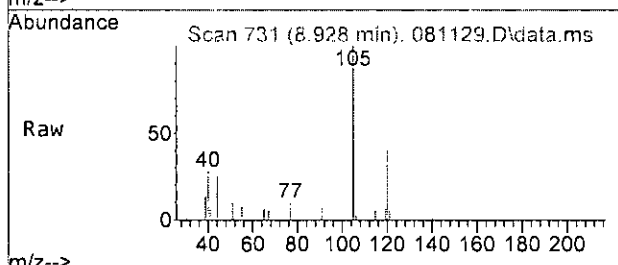
#58  
 n-Propylbenzene  
 Concen: 2.148 ppb  
 RT: 8.76 min Scan# 715  
 Delta R.T. -0.000 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

Tgt Ion: 91 Resp: 22426  
 Ion Ratio Lower Upper  
 91 100  
 120 25.9 0.0 53.6

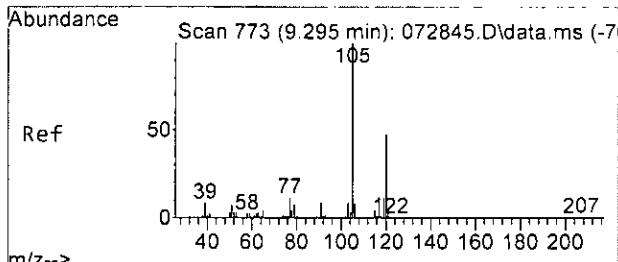


#60  
 1,3,5-Trimethylbenzene  
 Concen: 0.200 ppb  
 RT: 8.93 min Scan# 731  
 Delta R.T. 0.000 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

Tgt Ion: 105 Resp: 1451  
 Ion Ratio Lower Upper  
 105 100  
 120 40.1 19.6 79.6

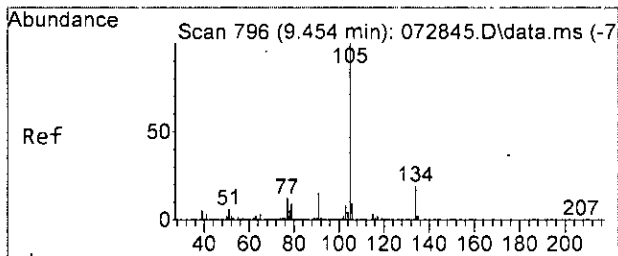
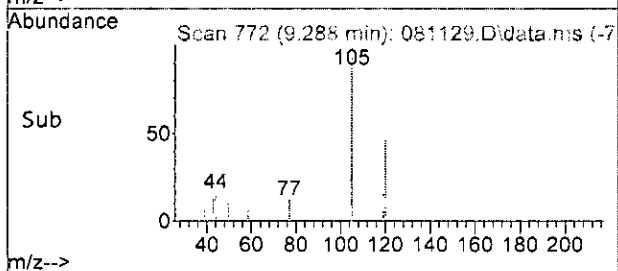
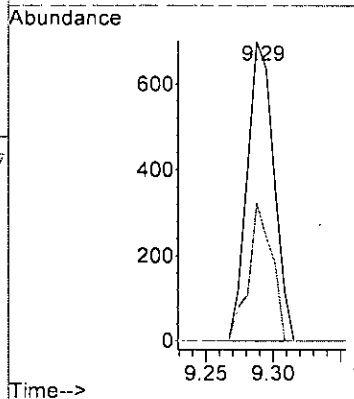
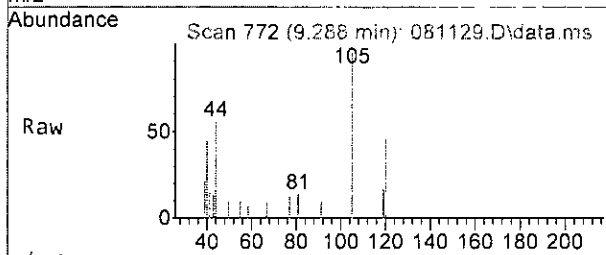






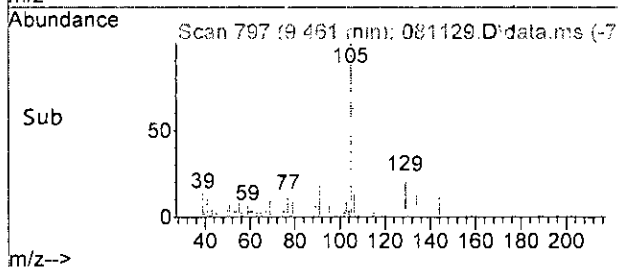
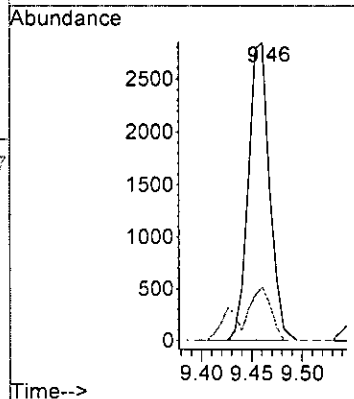
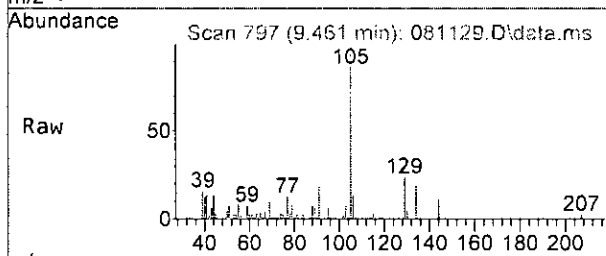
#66  
 1,2,4-Trimethylbenzene  
 Concen: 0.126 ppb  
 RT: 9.29 min Scan# 772  
 Delta R.T. -0.007 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

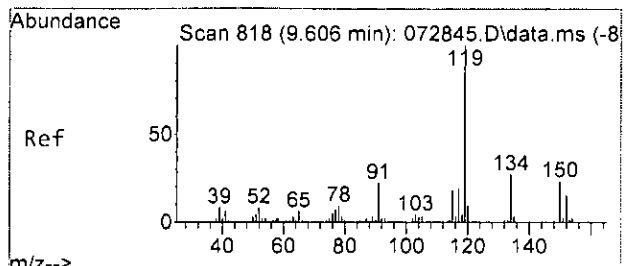
Tgt Ion: 105 Resp: 968  
 Ion Ratio Lower Upper  
 105 100  
 120 46.0 15.2 75.2



#67  
 sec-Butylbenzene  
 Concen: 0.428 ppb  
 RT: 9.46 min Scan# 797  
 Delta R.T. 0.007 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

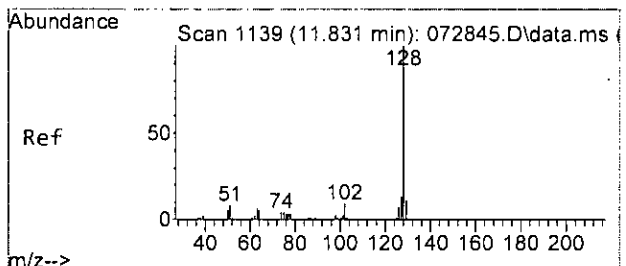
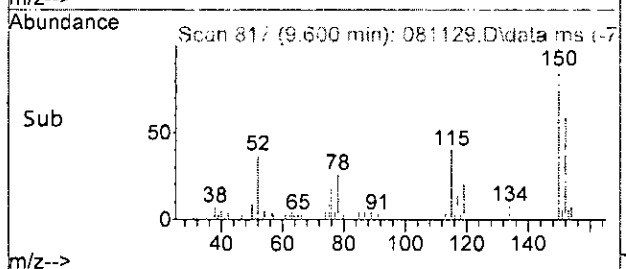
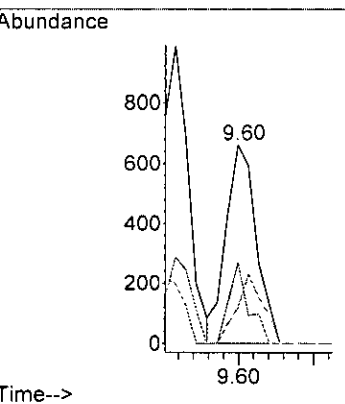
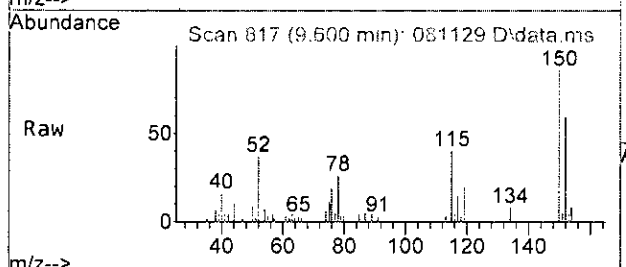
Tgt Ion: 105 Resp: 4175  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 0.0 49.0





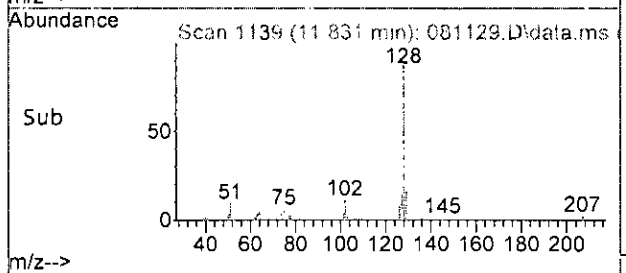
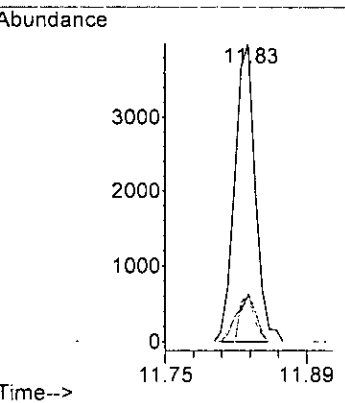
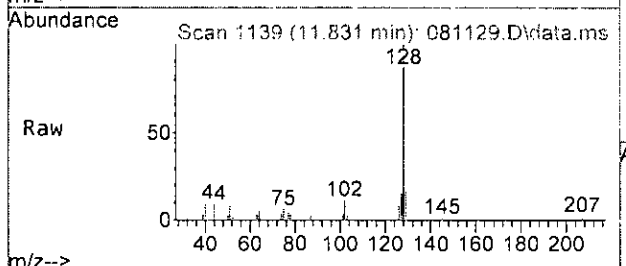
#68  
 p-Isopropyltoluene  
 Concen: 0.113 ppb  
 RT: 9.60 min Scan# 817  
 Delta R.T. -0.006 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

Tgt Ion	Resp	Lower	Upper
119	100		
134	40.8	0.0	57.5
91	17.9	0.0	53.3



#75  
 Naphthalene  
 Concen: 0.843 ppb  
 RT: 11.83 min Scan# 1139  
 Delta R.T. 0.000 min  
 Lab File: 081129.D  
 Acq: 11 Aug 2023 04:46 pm

Tgt Ion	Resp	Lower	Upper
128	100		
129	15.8	0.0	40.8
127	15.0	0.0	43.7



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	81940	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	62227	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	31387	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	22899	10.299	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.00%	
30) 1,2-Dichloroethane-d4	4.45	102	5223	10.608	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	106.10%	
35) Toluene-d8	6.10	98	91339	10.033	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	100.30%	
57) 4-Bromofluorobenzene	8.50	95	27682	9.792	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	97.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.24	50	698	N.D.		
6] Vinyl chloride	1.33	62	1289m	0.205	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.33	58	322	N.D.		
12] 1,1-Dichloroethene	2.27	96	341	0.144	ppb	91
13) Hexane	3.16	57	6829	2.116	ppb	82
14) Methylene chloride	2.69	84	949	0.475	ppb	# 58
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17] trans-1,2-Dichloroethene	2.92	96	1320m	0.617	ppb	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.	d	
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	26441	11.175	ppb	91
23) Chloroform	4.05	83	90	N.D.		
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	4.51	73	36	N.D.		
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d	
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.50	78	4748	0.586	ppb	96
32] Trichloroethene	5.04	95	174823	71.712	ppb	98
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	5.49	83	81	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

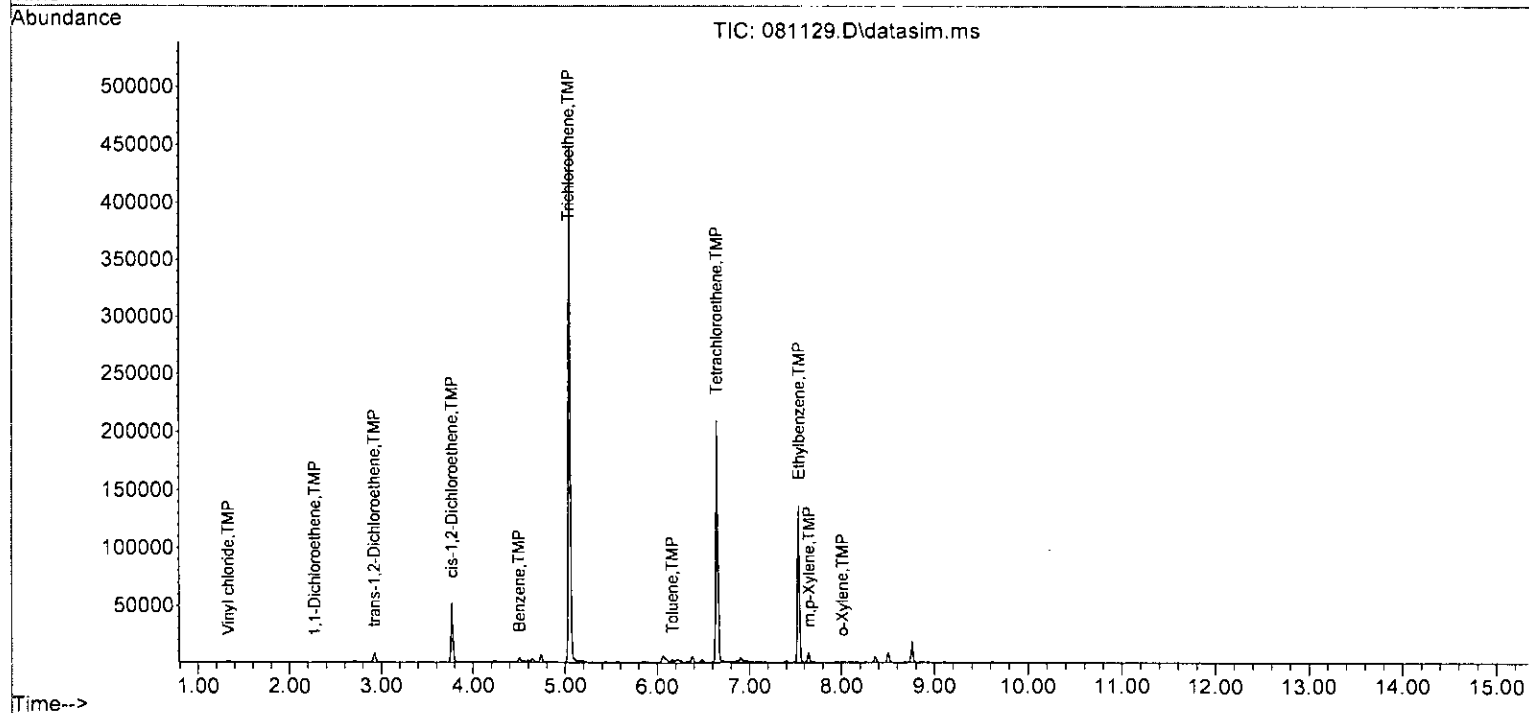
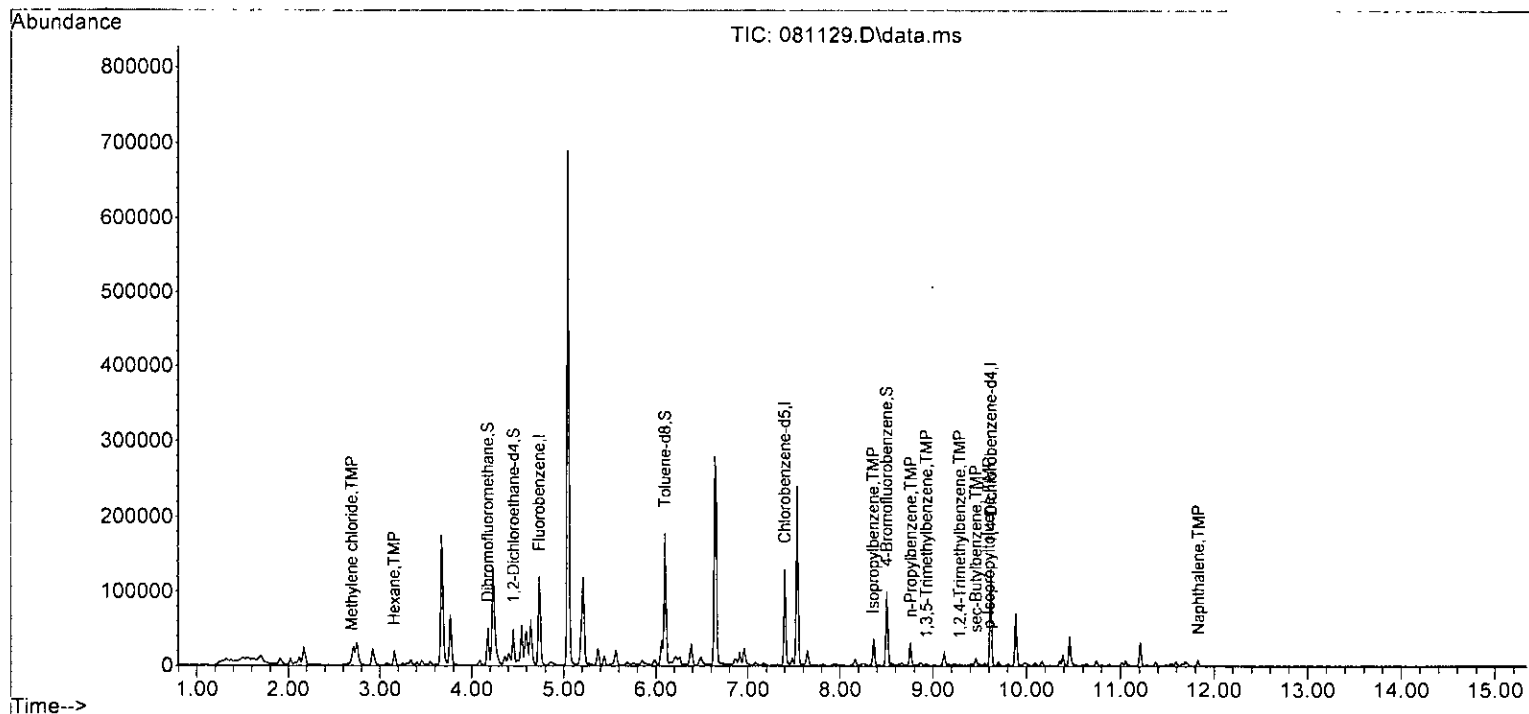
Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.16	92	1443	0.219	ppb	94
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	6.80	43	271	N.D.		
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.64	164	72674	29.966	ppb	97
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	6.97	107	37	N.D.		
48) Chlorobenzene	0.00		0	N.D.		
49] Ethylbenzene	7.54	91	140909	15.303	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.65	106	4119	1.118	ppb #	79
52] o-Xylene	8.01	106	211	0.050	ppb	96
53) Styrene	8.03	104	91	N.D.		
54) Isopropylbenzene	8.36	105	22594	2.656	ppb	93
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.76	91	22426	2.148	ppb	95
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	8.93	105	1451	0.200	ppb	86
61) 1,1,2,2-Tetrachloroethane	8.66	83	170	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.		
63) 2-Chlorotoluene	8.87	91	385	N.D.		
64) 4-Chlorotoluene	8.94	91	182	N.D.		
65) tert-Butylbenzene	9.25	119	404	N.D.		
66) 1,2,4-Trimethylbenzene	9.29	105	968	0.126	ppb	99
67) sec-Butylbenzene	9.46	105	4175	0.428	ppb	98
68) p-Isopropyltoluene	9.60	119	922	0.113	ppb	81
69) 1,3-Dichlorobenzene	0.00		0	N.D.		
70) 1,4-Dichlorobenzene	0.00		0	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.83	128	5656	0.843	ppb	92
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081129.D  
 Acq On : 11 Aug 2023 04:46 pm  
 Operator : MD  
 Sample : 308175-03 1/10  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

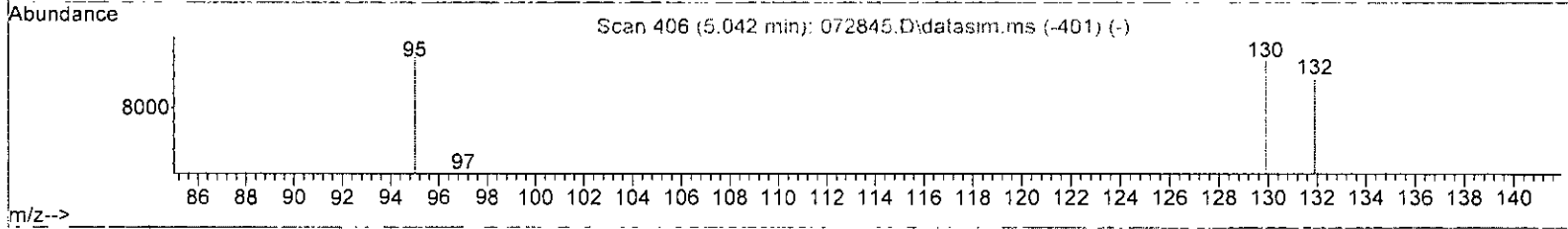
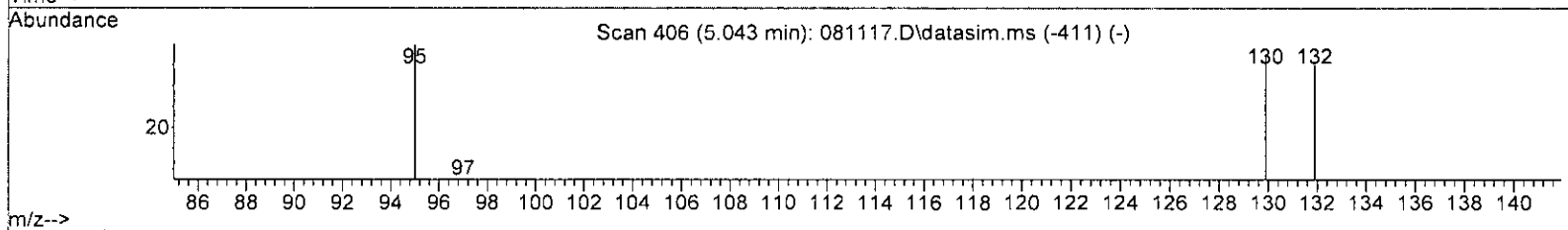
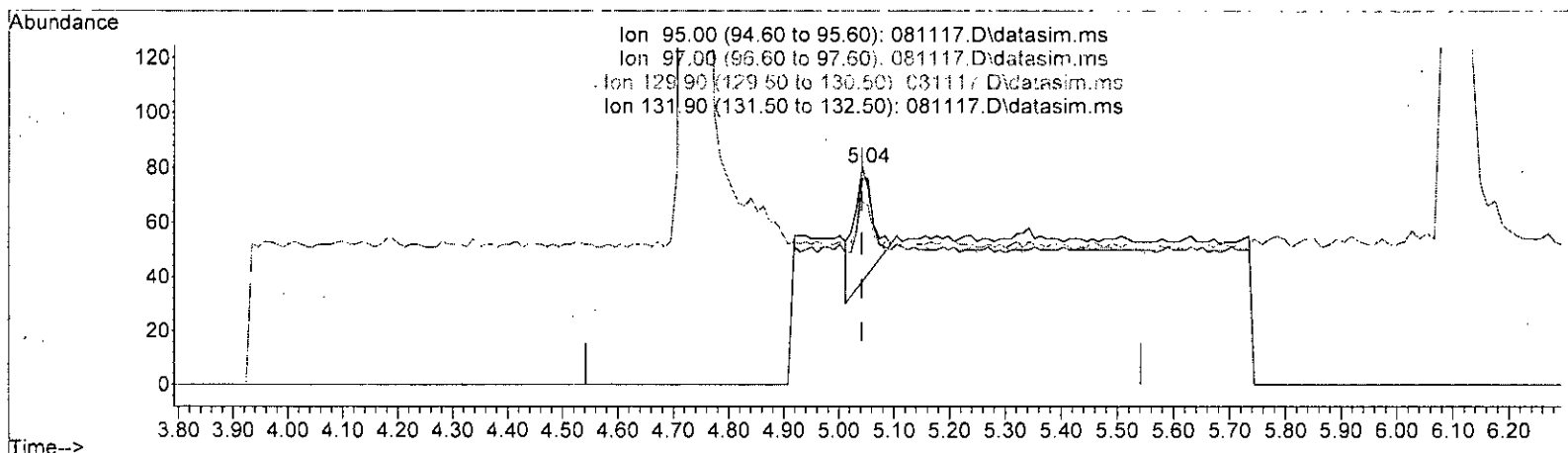
Quant Time: Aug 14 07:45:28 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081117.D  
 Acq On : 11 Aug 2023 12:06 pm  
 Operator : MD  
 Sample : 308175-04  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:40 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081117.D\data.ms *W8/14*

(32) Trichloroethene (TMP)

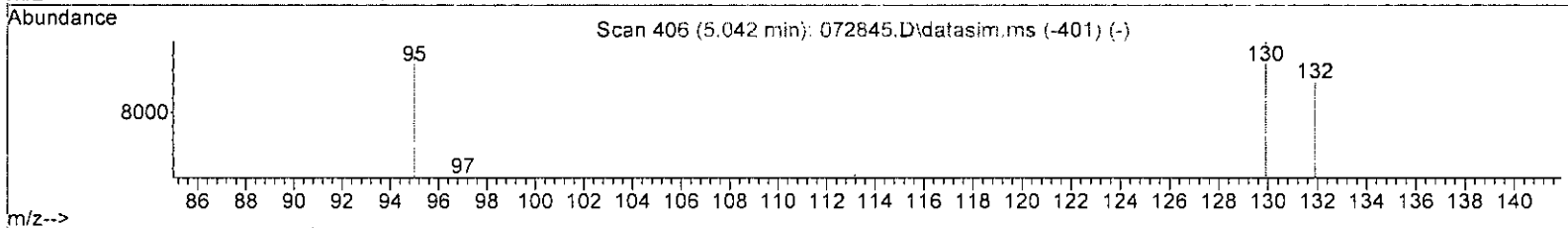
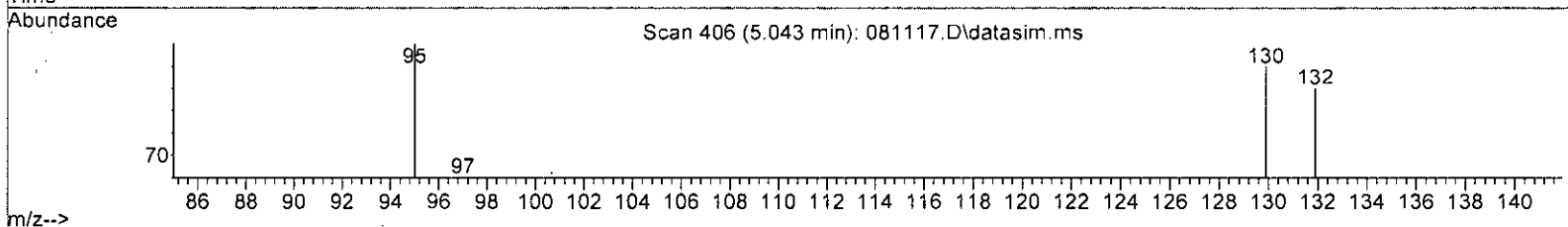
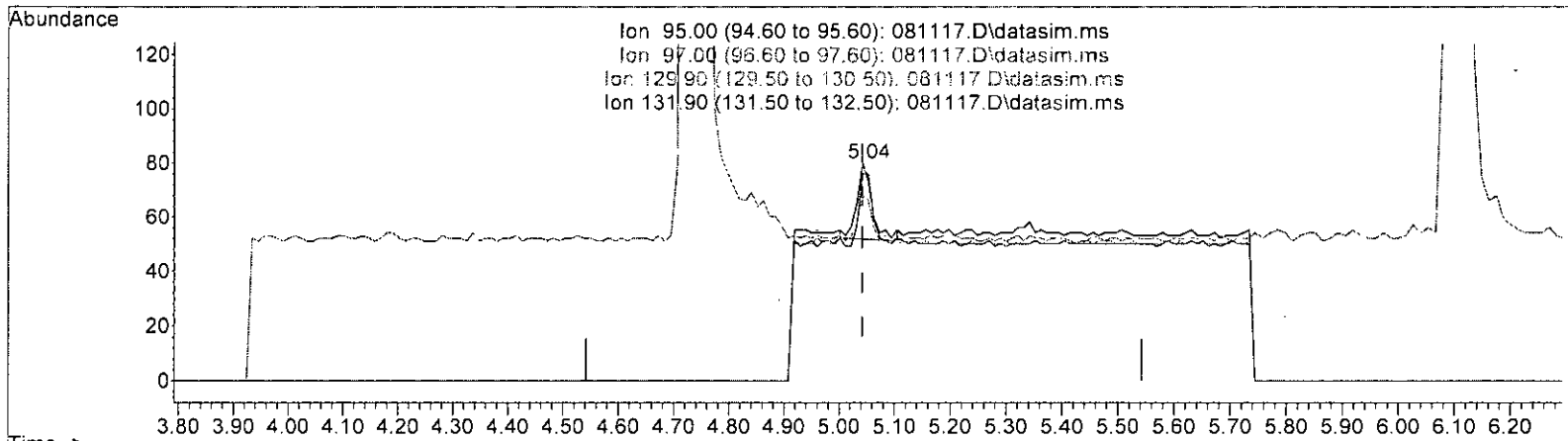
5.043min (+ 0.001) 0.019 ppb

response	103	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	60.71
129.90	98.60	103.57
131.90	86.60	96.43

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081117.D  
 Acq On : 11 Aug 2023 12:06 pm  
 Operator : MD  
 Sample : 308175-04  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:40 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081117.D\data.ms

*m 8/14*

(32) Trichloroethene (TMP)

5.043min (+ 0.001) 0.003 ppb m

response 54

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	85.00
129.90	98.60	97.50
131.90	86.60	95.00

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081117.D  
 Acq On : 11 Aug 2023 12:06 pm  
 Operator : MD  
 Sample : 308175-04  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:40 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

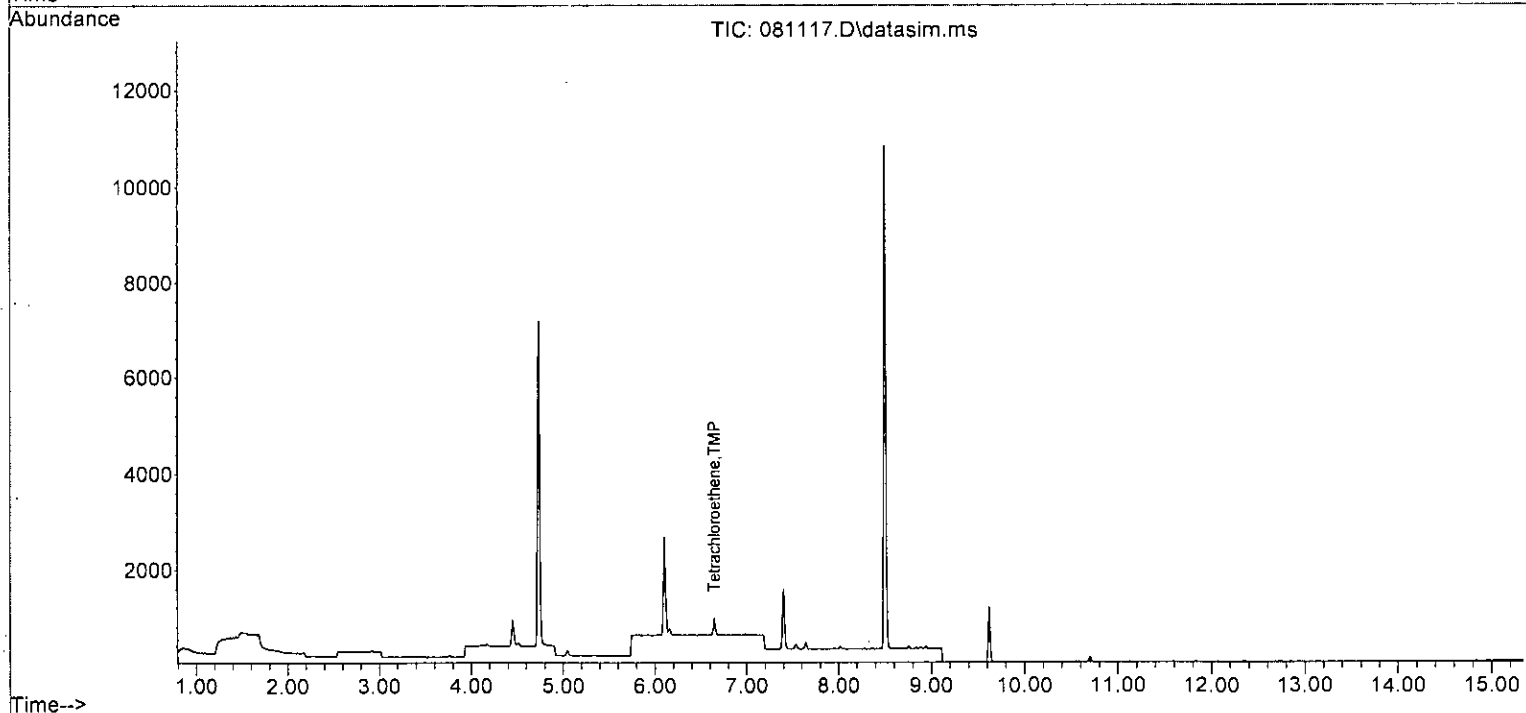
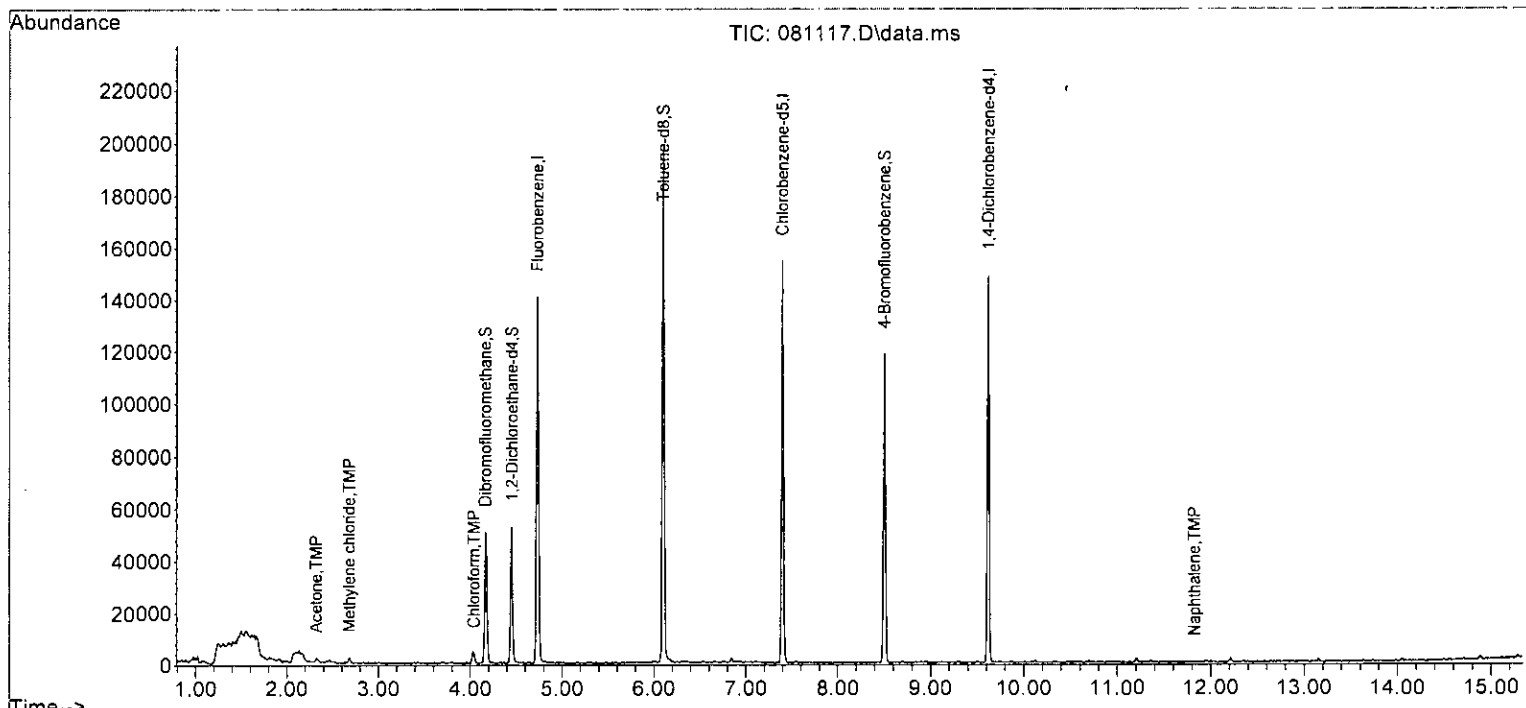
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	104608	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	74402	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37370	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	27077	9.539	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.40%
30) 1,2-Dichloroethane-d4	4.45	102	5695	9.060	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	90.60%
35) Toluene-d8	6.10	98	105637	9.089	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	90.90%
57) 4-Bromofluorobenzene	8.50	95	32421	9.632	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.30%
Target Compounds						
11) Acetone	2.32	58	434	1.048	ppb #	85
14) Methylene chloride	2.68	84	775	0.304	ppb	92
23) Chloroform	4.04	83	2576	0.542	ppb	98
26] 1,2-Dichloroethane (EDC)	4.52	62	78	Below Cal		96
31] Benzene	4.49	78	47	Below Cal		82
40] Toluene	6.16	92	80	Below Cal		98
45] Tetrachloroethene	6.65	164	137	0.026	ppb	96
49] Ethylbenzene	7.54	91	114	Below Cal		95
51] m,p-Xylene	7.64	106	69	Below Cal		93
52] o-Xylene	8.01	106	24	Below Cal		89
75) Naphthalene	11.82	128	167	0.021	ppb	68
-----						

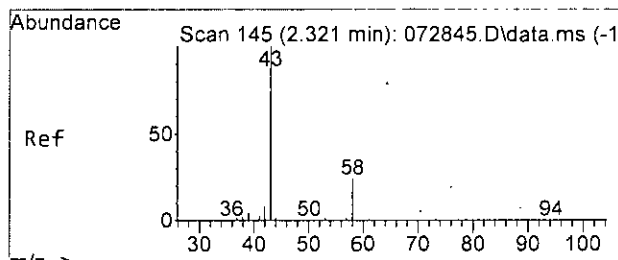
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\08-11-23\  
Data File : 081117.D  
Acq On : 11 Aug 2023 12:06 pm  
Operator : MD  
Sample : 308175-04  
Misc : water  
ALS Vial : 10 Sample Multiplier: 1  
InstName : GCMS13

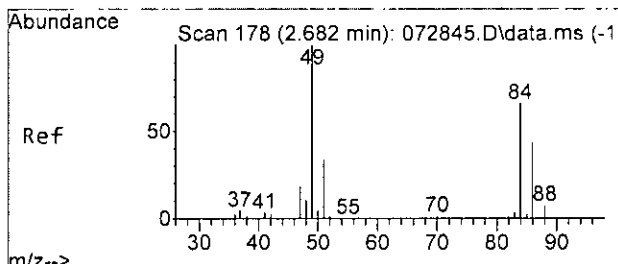
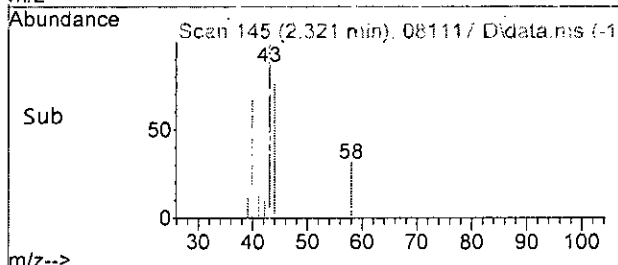
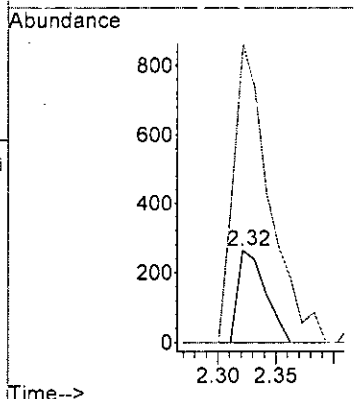
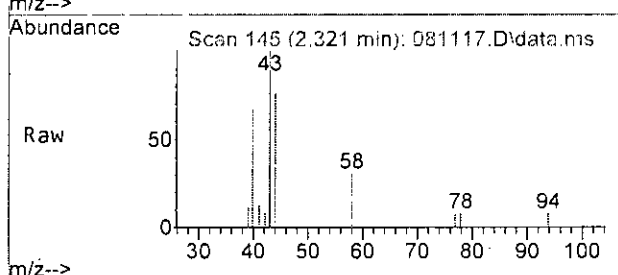
Quant Time: Aug 14 07:44:40 2023  
Quant Method : Y:\Methods\Inst13\072823vms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Sat Jul 29 09:22:43 2023  
Response via : Initial Calibration  
DataAcq Meth:VM040623.M





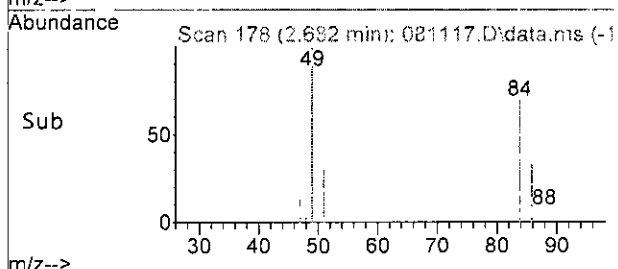
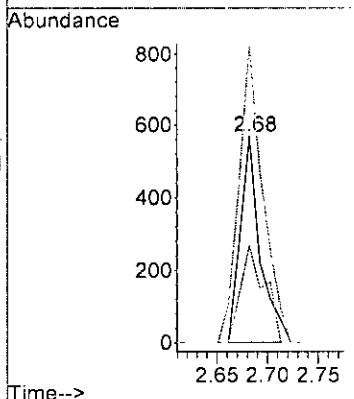
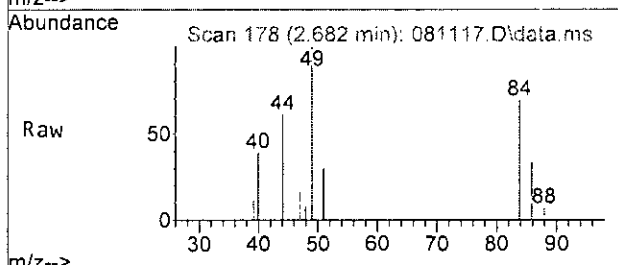
#11  
 Acetone  
 Concen: 1.048 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. 0.000 min  
 Lab File: 081117.D  
 Acq: 11 Aug 2023 12:06 pm

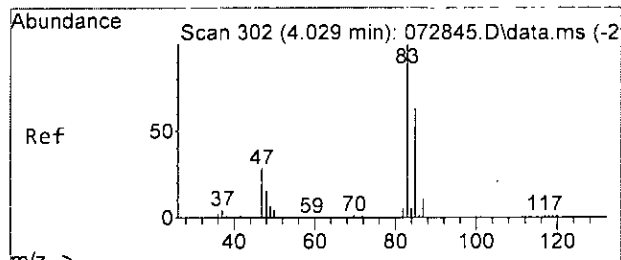
Tgt Ion: 58 Resp: 434  
 Ion Ratio Lower Upper  
 58 100  
 43 429.3 363.1 423.1#



#14  
 Methylene chloride  
 Concen: 0.304 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. 0.000 min  
 Lab File: 081117.D  
 Acq: 11 Aug 2023 12:06 pm

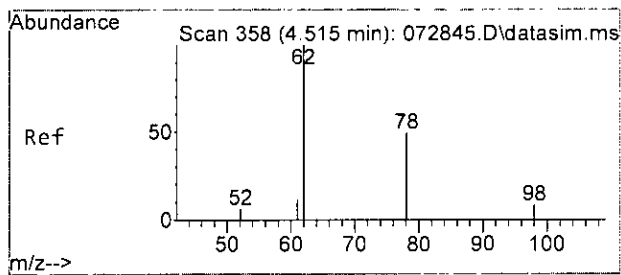
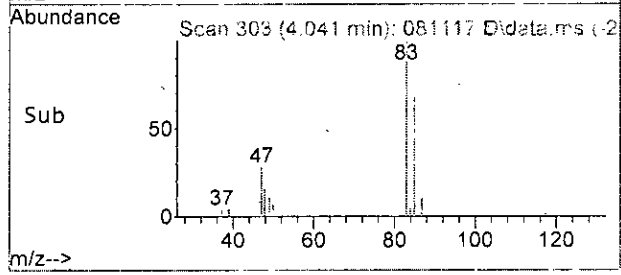
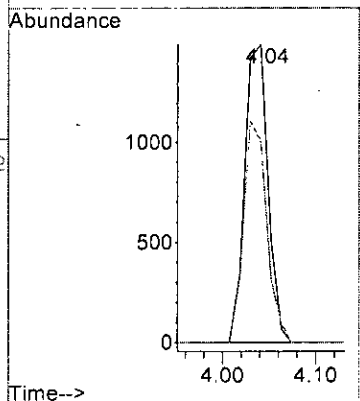
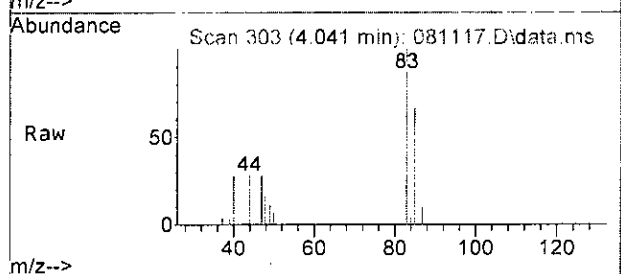
Tgt Ion: 84 Resp: 775  
 Ion Ratio Lower Upper  
 84 100  
 86 47.5 29.1 89.1  
 49 145.5 122.1 182.1





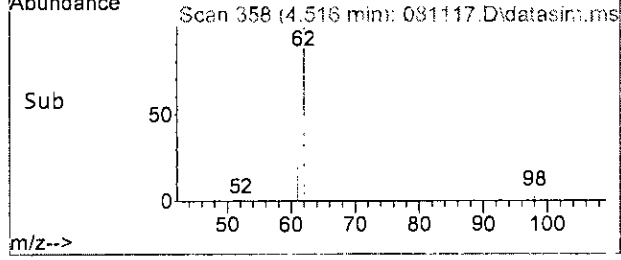
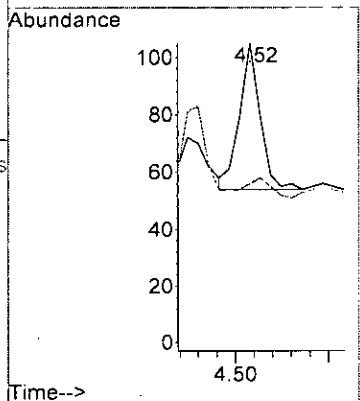
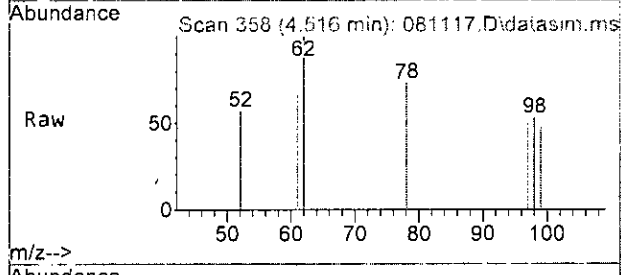
#23  
 Chloroform  
 Concen: 0.542 ppb  
 RT: 4.04 min Scan# 303  
 Delta R.T. 0.012 min  
 Lab File: 081117.D  
 Acq: 11 Aug 2023 12:06 pm

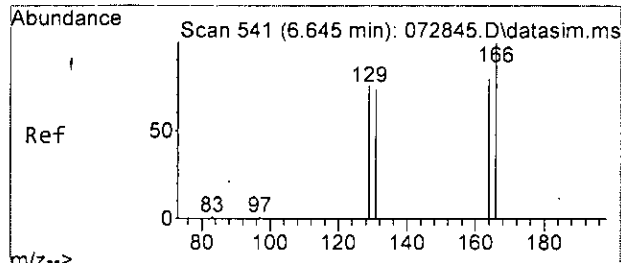
Tgt Ion: 83 Resp: 2576  
 Ion Ratio Lower Upper  
 83 100  
 85 67.3 39.2 99.2



#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.001 min  
 Lab File: 081117.D  
 Acq: 11 Aug 2023 12:06 pm

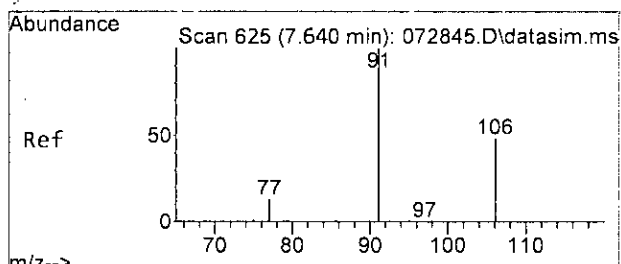
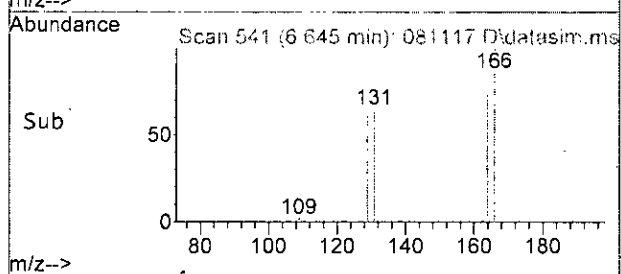
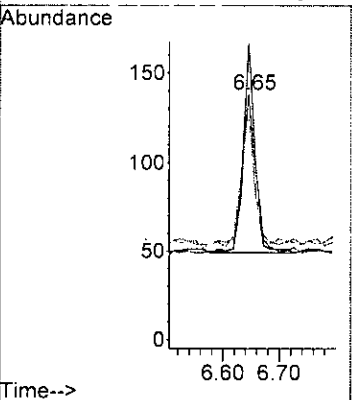
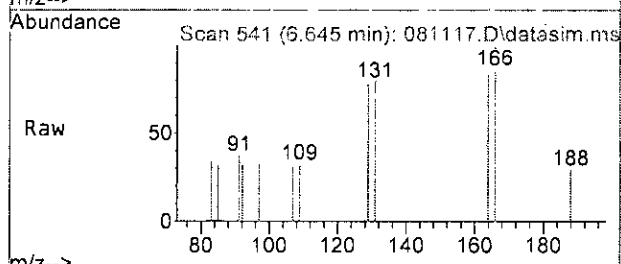
Tgt Ion: 62 Resp: 78  
 Ion Ratio Lower Upper  
 62 100  
 98 5.9 0.0 37.3





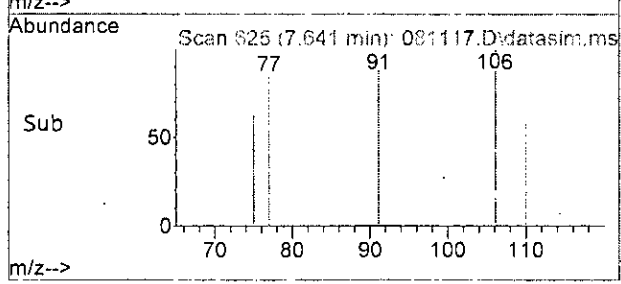
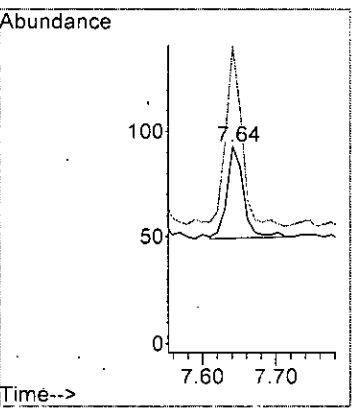
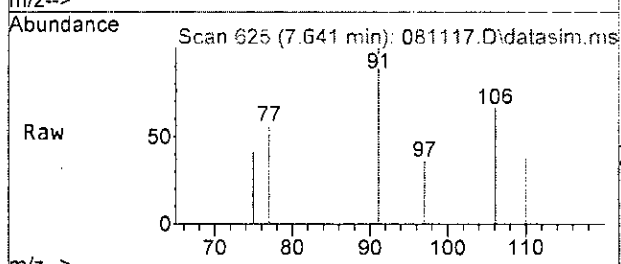
#45  
 Tetrachloroethene  
 Concen: 0.026 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. 0.000 min  
 Lab File: 081117.D  
 Acq: 11 Aug 2023 12:06 pm

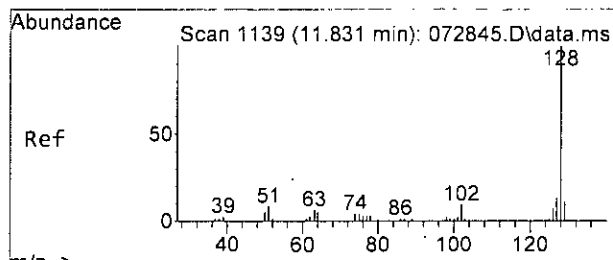
Tgt Ion	Resp	Lower	Upper
164	100		
129	83.1	60.7	120.7
131	87.6	60.4	120.4
166	131.5	99.4	159.4



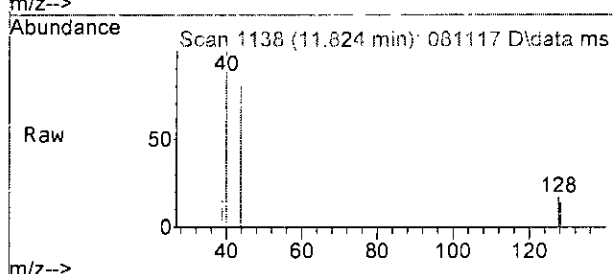
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081117.D  
 Acq: 11 Aug 2023 12:06 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	197.7	178.3	238.3



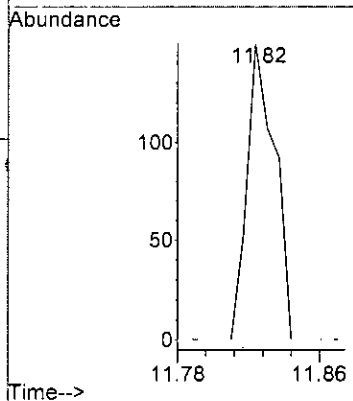
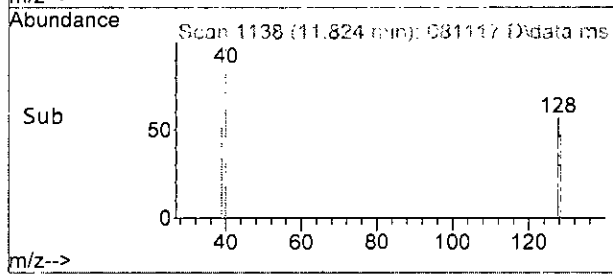


#75  
 Naphthalene  
 Concen: 0.021 ppb  
 RT: 11.82 min Scan# 1138  
 Delta R.T. -0.007 min  
 Lab File: 081117.D  
 Acq: 11 Aug 2023 12:06 pm



Tgt Ion: 128 Resp: 167

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	40.8
127	0.0	0.0	43.7



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081117.D  
 Acq On : 11 Aug 2023 12:06 pm  
 Operator : MD  
 Sample : 308175-04  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:40 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	104608	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	74402	10.000	ppb	0.00	
S6) 1,4-Dichlorobenzene-d4	9.62	152	37370	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	27077	9.539	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.40%	
30) 1,2-Dichloroethane-d4	4.45	102	5695	9.060	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	90.60%	
35) Toluene-d8	6.10	98	105637	9.089	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	90.90%	
57) 4-Bromofluorobenzene	8.50	95	32421	9.632	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.30%	
Target Compounds							
2) Ethanol	2.33	45	42	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	3955	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.33	45	42	No Calib	#		
11) Acetone	2.32	58	434	1.048	ppb #	85	
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	775	0.304	ppb	92	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	4.04	83	2576	0.542	ppb	98	
24) 2-Butanone (MEK)	0.00		0	N.D. d			
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	78	Below Cal		96	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.49	78	47	Below Cal		82	
32) Trichloroethene	5.04	95	54	N.D.			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	5.48	83	32	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081117.D  
 Acq On : 11 Aug 2023 12:06 pm  
 Operator : MD  
 Sample : 308175-04  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

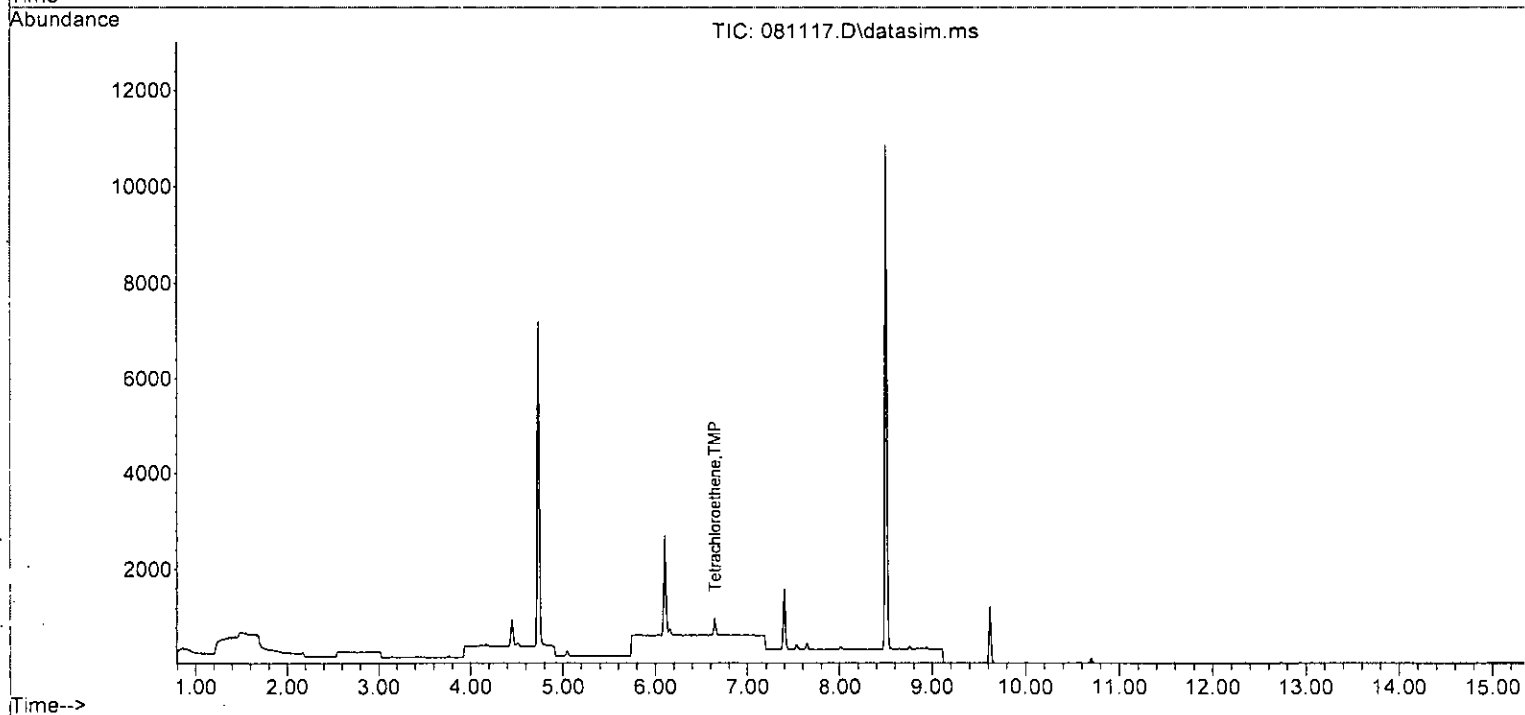
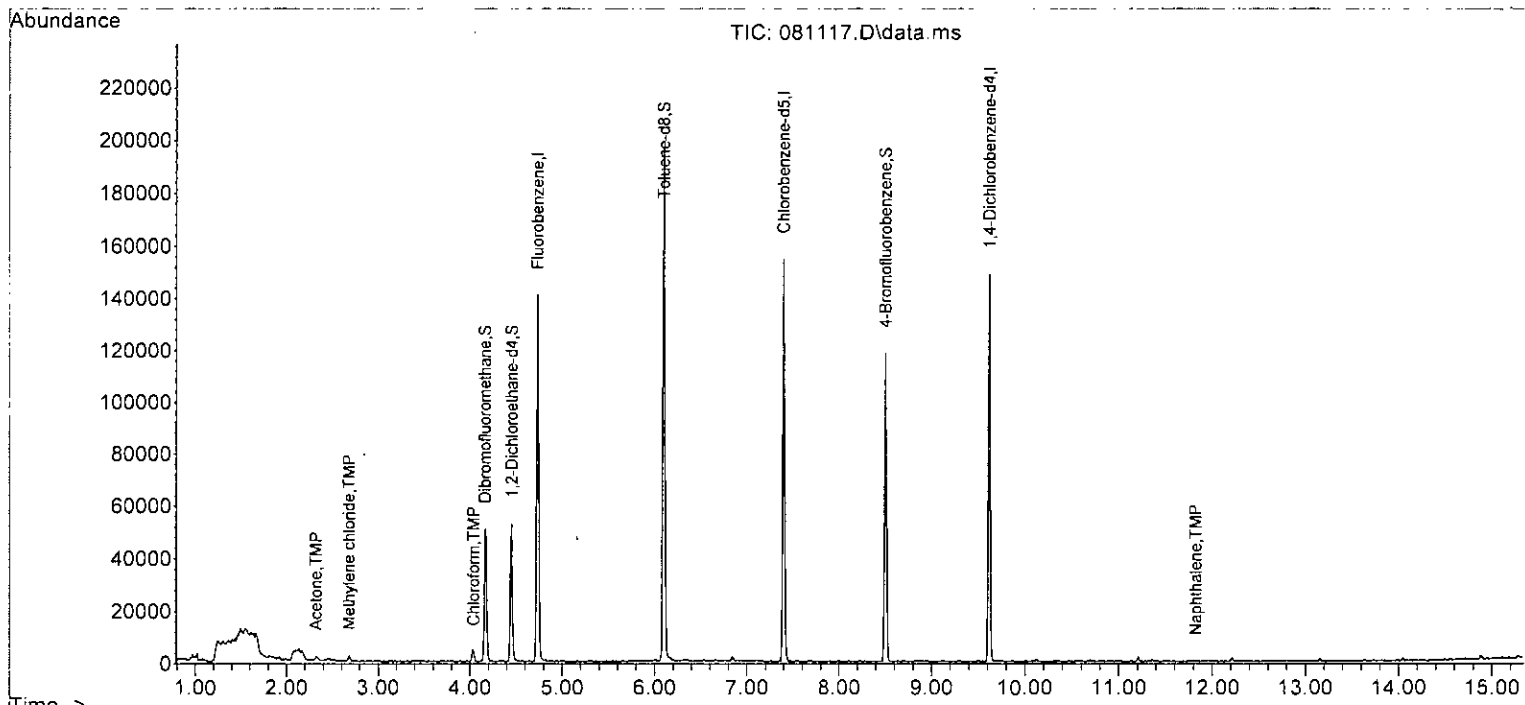
Quant Time: Aug 14 07:44:40 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.16	92	80	Below Cal	98
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	
43) 2-Hexanone	6.77	43	111	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.65	164	137	0.026 ppb	96
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.54	91	114	Below Cal	95
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.64	106	69	Below Cal	93
52] o-Xylene	8.01	106	24	Below Cal	89
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	0.00		0	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	0.00		0	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	
63) 2-Chlorotoluene	0.00		0	N.D.	
64) 4-Chlorotoluene	0.00		0	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.46	105	22	N.D.	
67) sec-Butylbenzene	9.46	105	22	N.D.	
68) p-Isopropyltoluene	9.61	119	90	N.D.	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.82	128	167	0.021 ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
Data File : 081117.D  
Acq On : 11 Aug 2023 12:06 pm  
Operator : MD  
Sample : 308175-04  
Misc : water  
ALS Vial : 10 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Aug 14 07:44:40 2023  
Quant Method : Y:\Methods\Inst13\072823vms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Sat Jul 29 09:22:43 2023  
Response via : Initial Calibration  
DataAcq Meth:VM040623.M

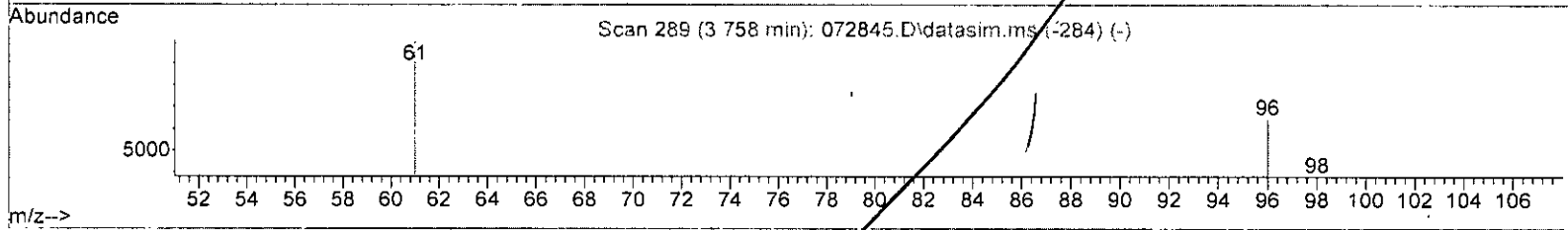
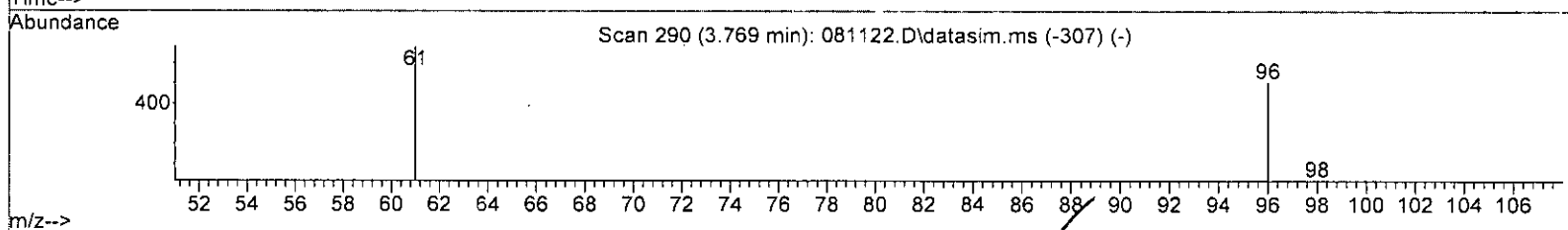
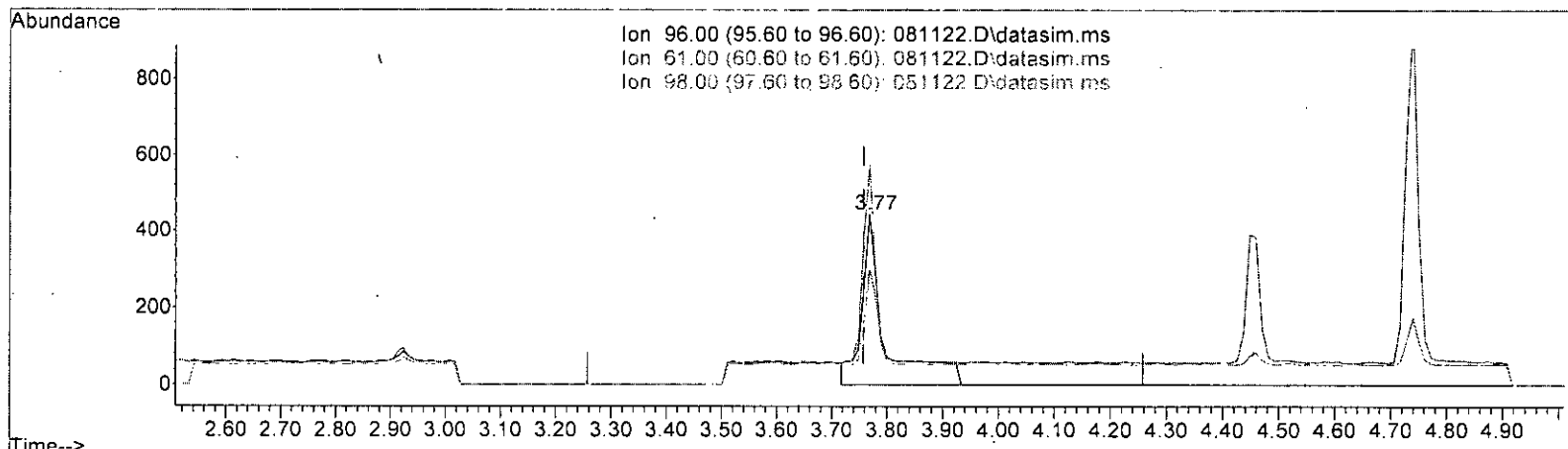




Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081122.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *MD 8/14*

3.769min (+ 0.011) 0.506 ppb

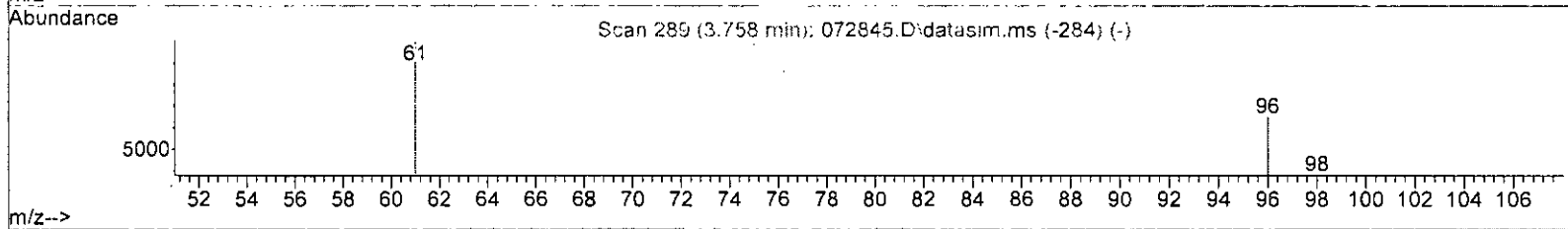
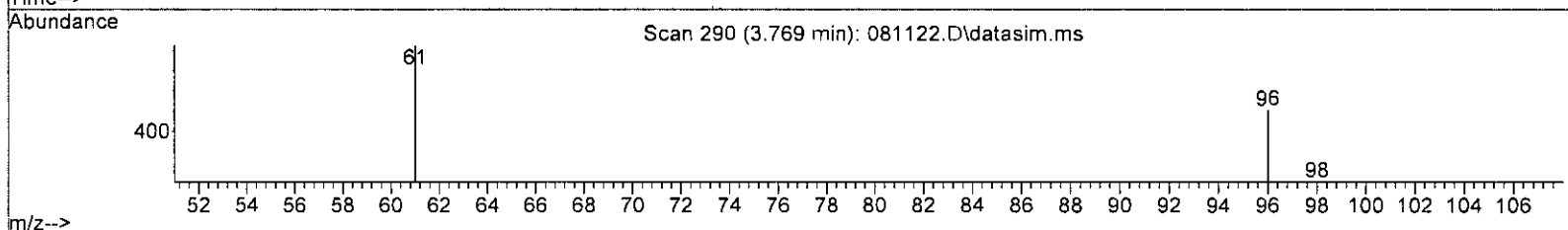
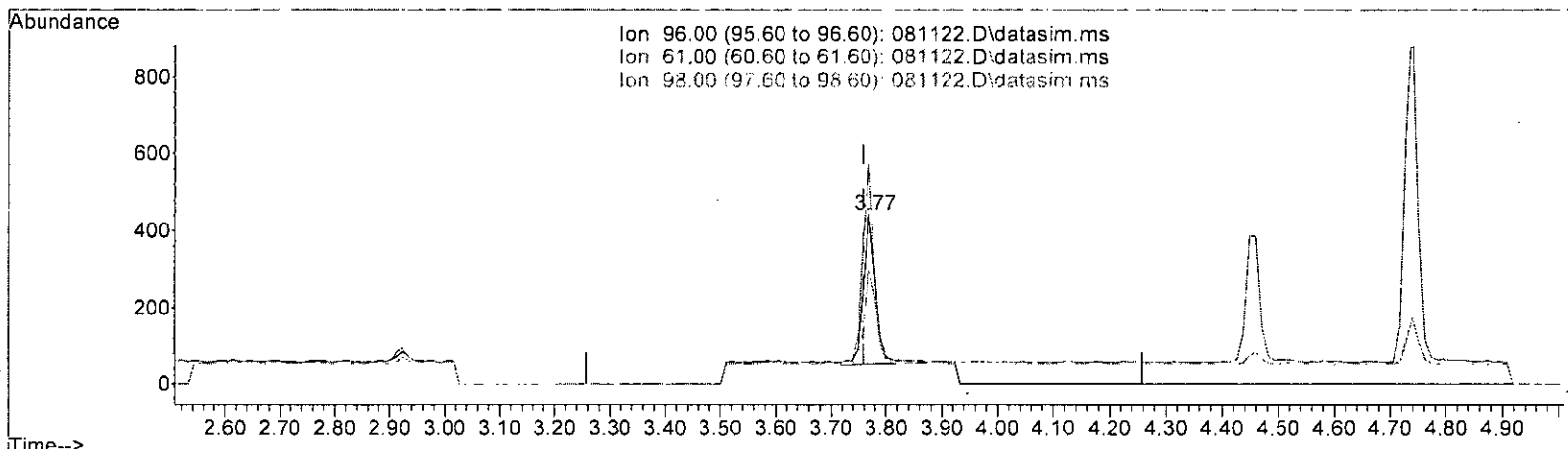
response 1308

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	142.00	116.06
98.00	68.60	56.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081122.D\data.ms *u 8/14*

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

3.769min (+ 0.011) 0.245 ppb m

response	634
Ion	Exp% Act%
96.00	100.00 100.00
61.00	142.00 129.19
98.00	68.60 67.87
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

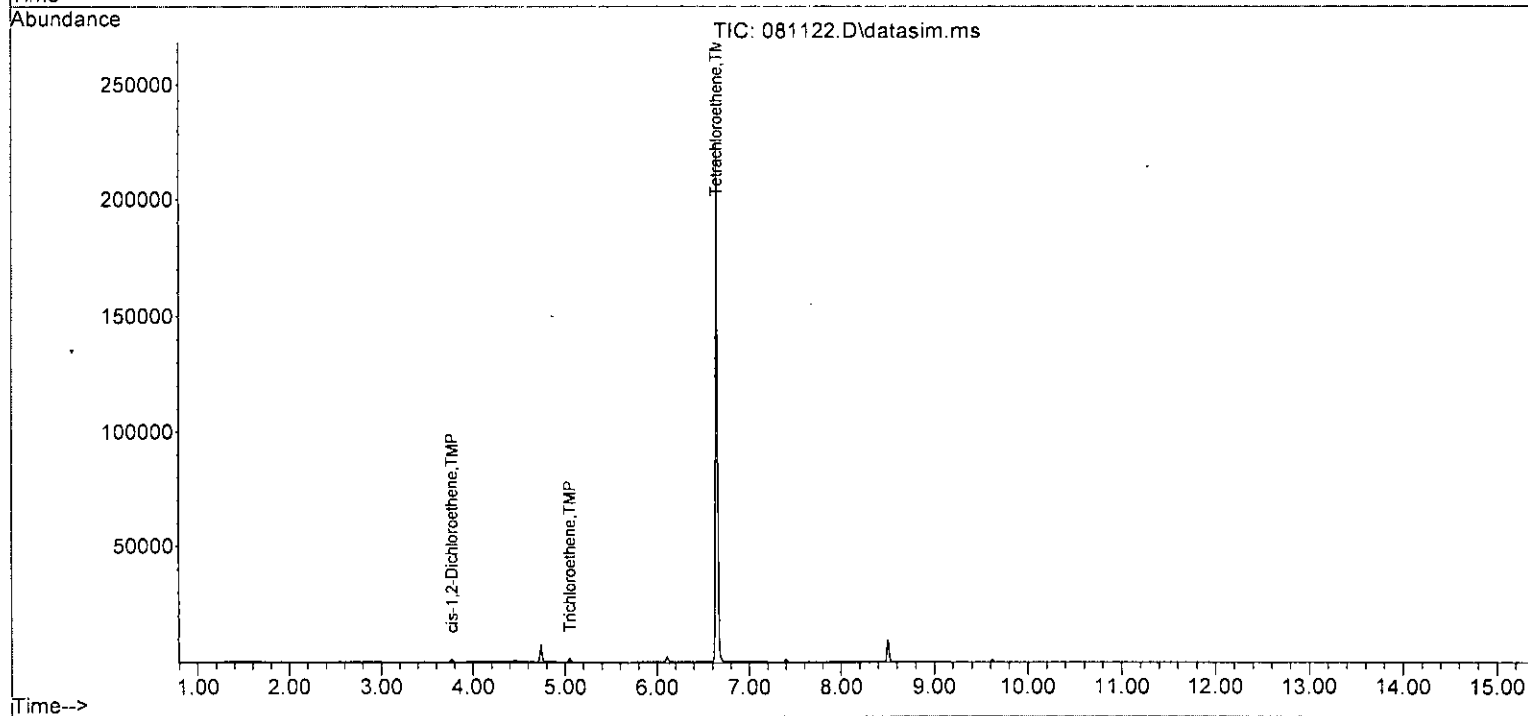
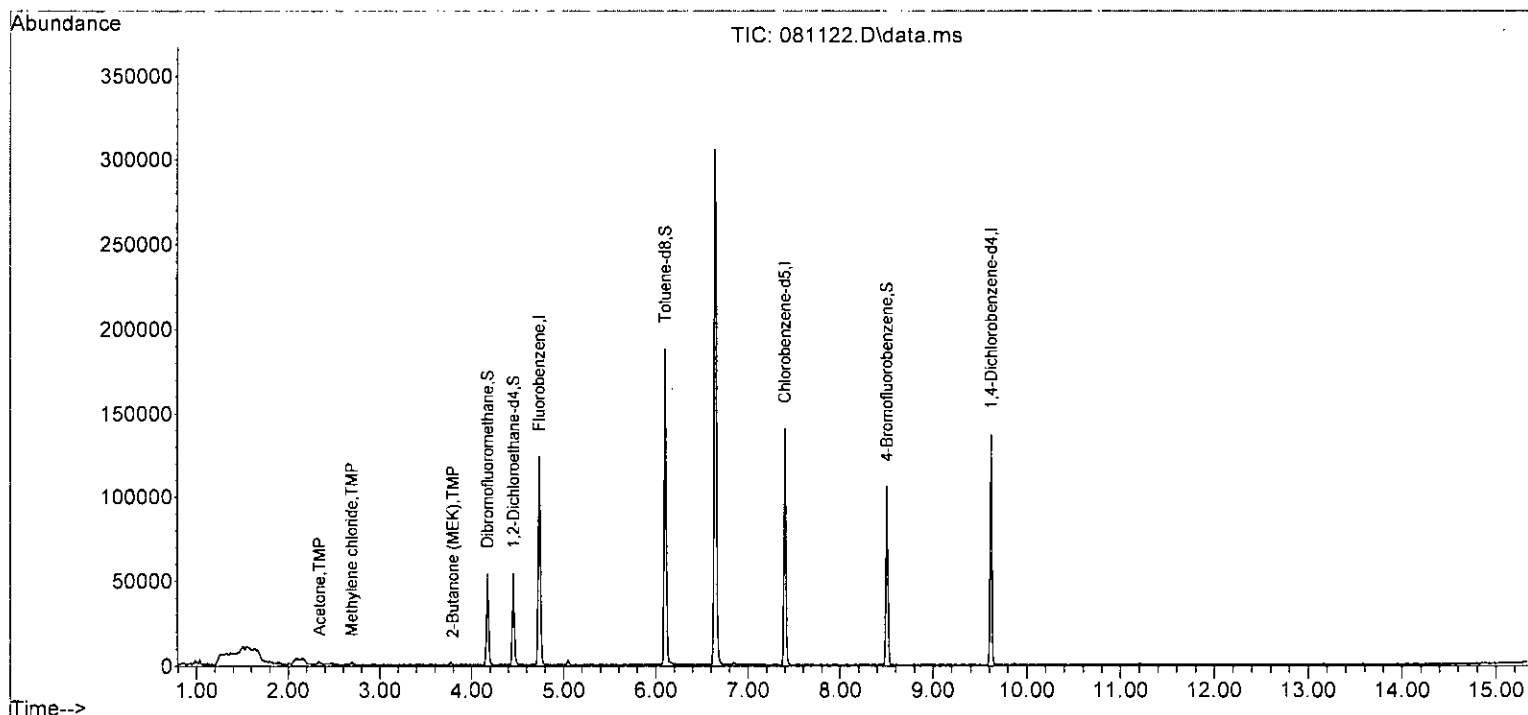
Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

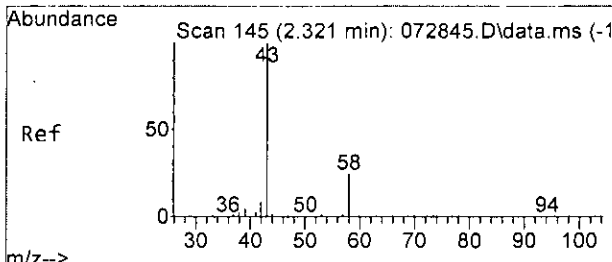
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	89595	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	68344	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	33542	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	25117	10.331	ppb	0.01
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.30%	
30) 1,2-Dichloroethane-d4	4.45	102	5773	10.723	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	107.20%	
35) Toluene-d8	6.10	98	97912	9.836	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	98.40%	
57) 4-Bromofluorobenzene	8.50	95	28711	9.503	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	95.00%	
Target Compounds						
11) Acetone	2.34	58	472	1.331	ppb	87
14) Methylene chloride	2.69	84	563	0.258	ppb #	71
22] cis-1,2-Dichloroethene	3.77	96	634m	0.245	ppb	
24) 2-Butanone (MEK)	3.79	43	271	0.157	ppb	66
26] 1,2-Dichloroethane (EDC)	4.52	62	79	Below Cal		100
31] Benzene	4.50	78	70	Below Cal		94
32] Trichloroethene	5.05	95	681	0.241	ppb #	68
40] Toluene	6.16	92	61	Below Cal		87
45] Tetrachloroethene	6.64	164	76898	28.869	ppb	98
49] Ethylbenzene	7.54	91	55	Below Cal		96
51] m,p-Xylene	7.64	106	41	Below Cal		98
-----						

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

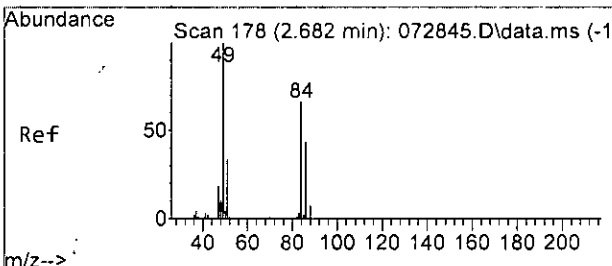
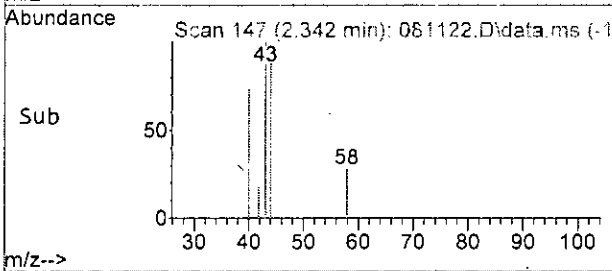
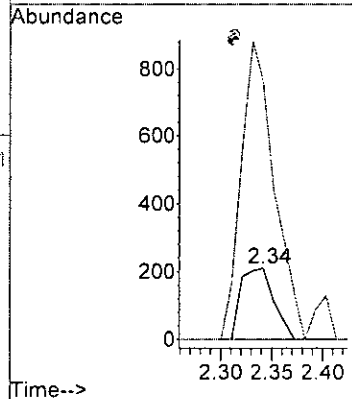
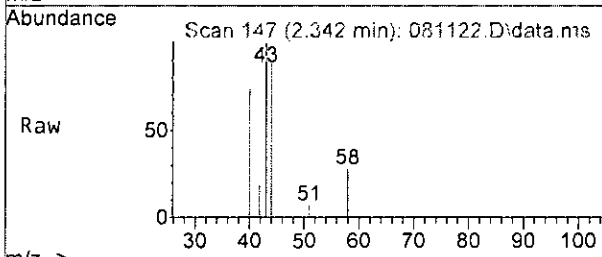
Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





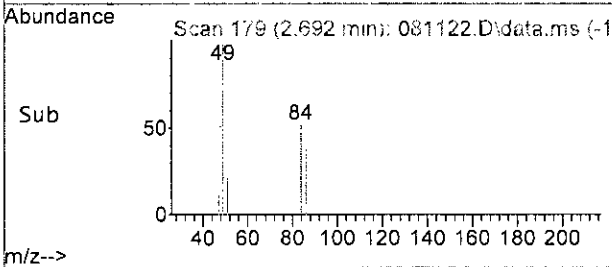
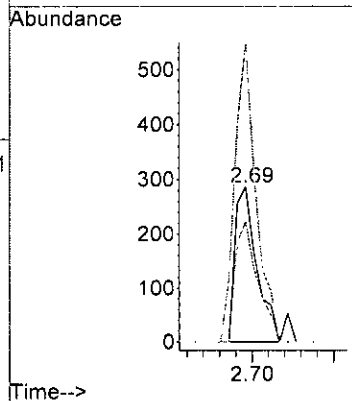
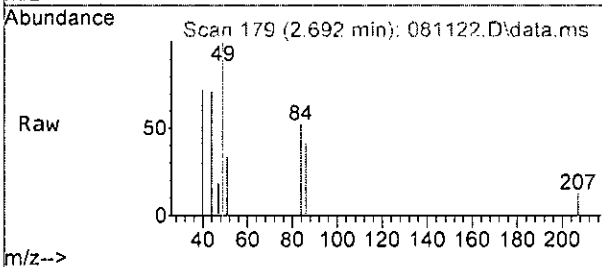
#11  
 Acetone  
 Concen: 1.331 ppb  
 RT: 2.34 min Scan# 147  
 Delta R.T. 0.021 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

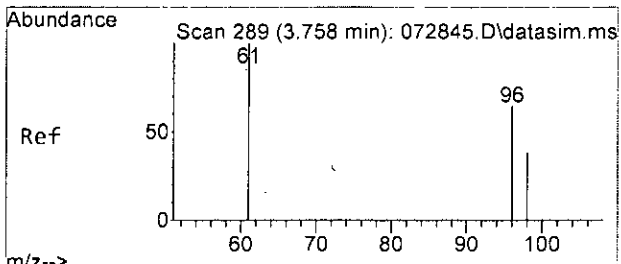
Tgt Ion: 58 Resp: 472  
 Ion Ratio Lower Upper  
 58 100  
 43 422.9 363.1 423.1



#14  
 Methylene chloride  
 Concen: 0.258 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

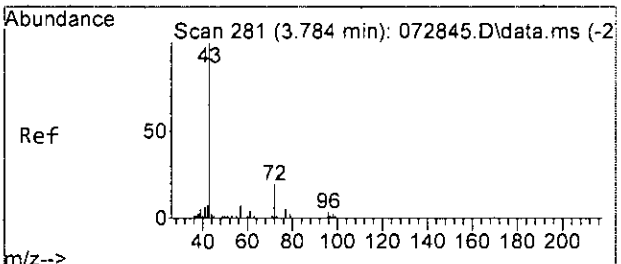
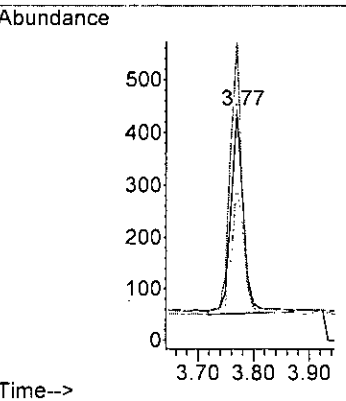
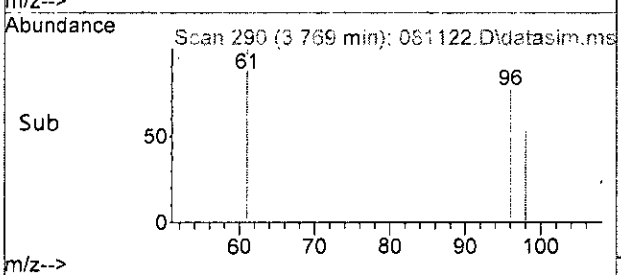
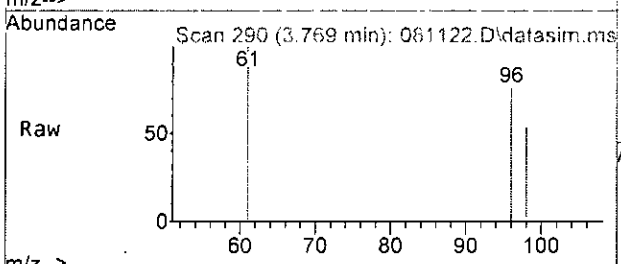
Tgt Ion: 84 Resp: 563  
 Ion Ratio Lower Upper  
 84 100  
 86 78.0 29.1 89.1  
 49 192.0 122.1 182.1#





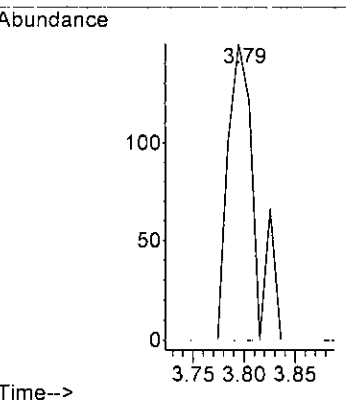
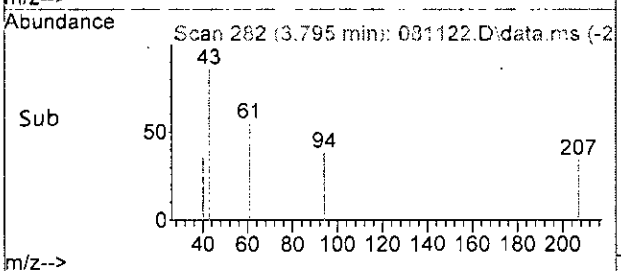
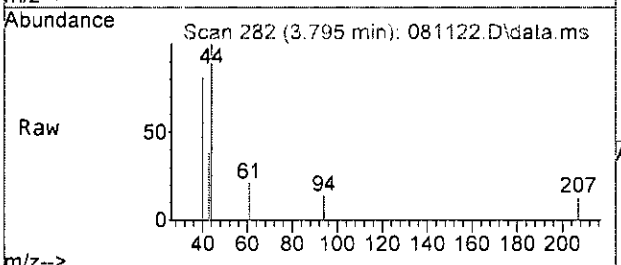
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.245 ppb m  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

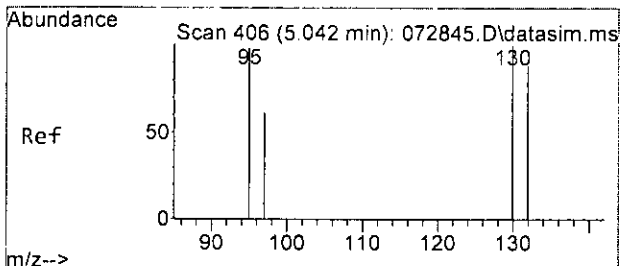
Tgt Ion	Resp	Lower	Upper
96	634	100	
61	129.2	112.0	172.0
98	67.9	38.6	98.6



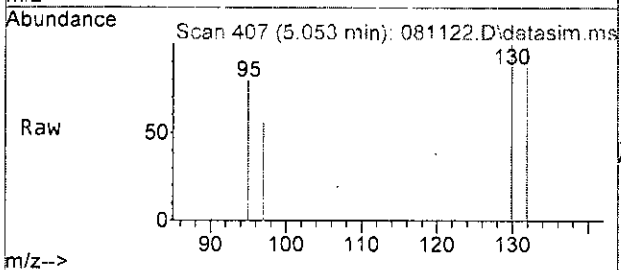
#24  
 2-Butanone (MEK)  
 Concen: 0.157 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.011 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

Tgt Ion	Resp	Lower	Upper
43	271	100	
72	0.0	0.0	47.3
57	0.0	0.0	27.2



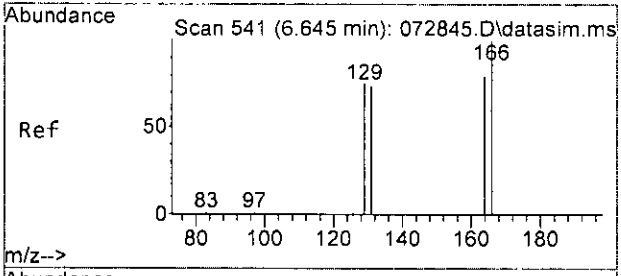
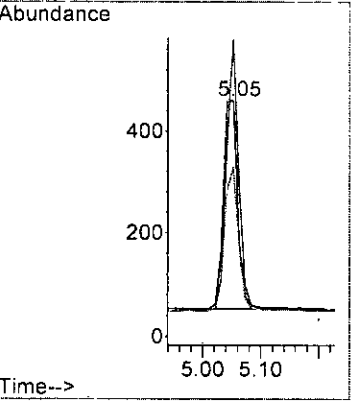
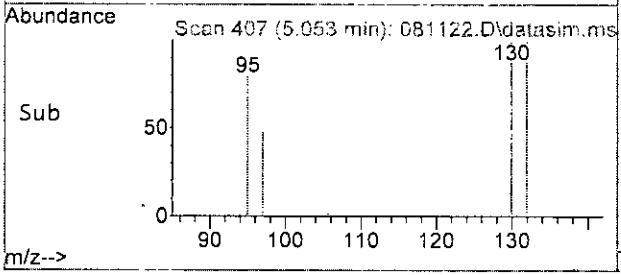


#32  
 Trichloroethene  
 Concen: 0.241 ppb  
 RT: 5.05 min Scan# 407  
 Delta R.T. 0.011 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

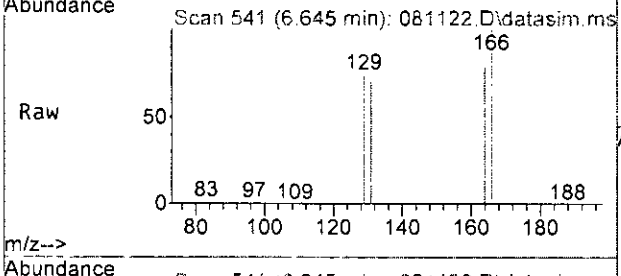


Tgt Ion: 95 Resp: 681

Ion	Ratio	Lower	Upper
95	100		
97	68.1	30.8	90.8
130	131.0	68.6	128.6#
132	130.0	56.6	116.6#

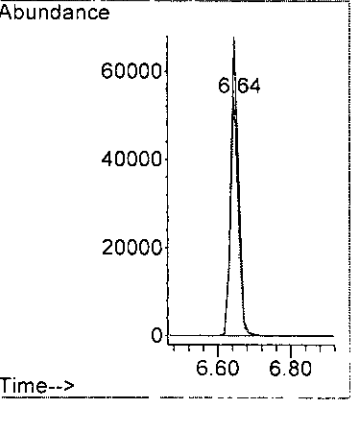
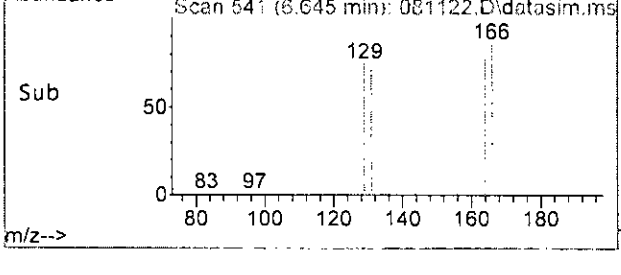


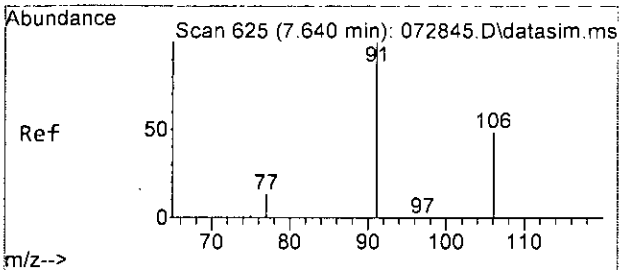
#45  
 Tetrachloroethene  
 Concen: 28.869 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm



Tgt Ion: 164 Resp: 76898

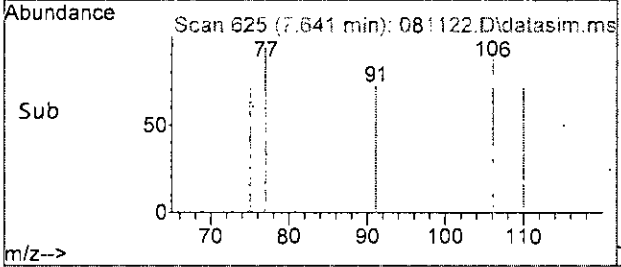
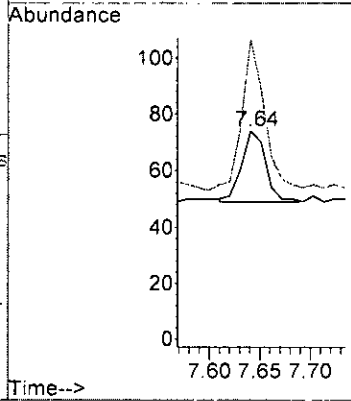
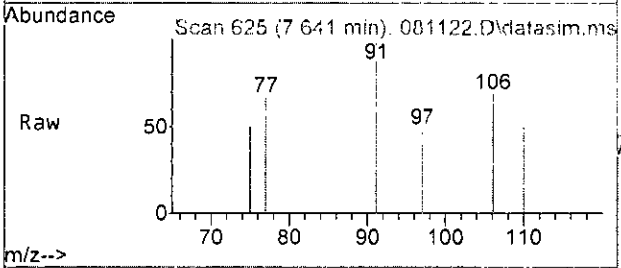
Ion	Ratio	Lower	Upper
164	100		
129	94.1	60.7	120.7
131	90.6	60.4	120.4
166	126.2	99.4	159.4





#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081122.D  
 Acq: 11 Aug 2023 02:02 pm

Tgt Ion: 106 Resp: 41  
 Ion Ratio Lower Upper  
 106 100  
 91 212.0 178.3 238.3





Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	89595	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	68344	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	33542	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	25117	10.331	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.30%		
30) 1,2-Dichloroethane-d4	4.45	102	5773	10.723	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	107.20%		
35) Toluene-d8	6.10	98	97912	9.836	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	98.40%		
57) 4-Bromofluorobenzene	8.50	95	28711	9.503	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	95.00%		
Target Compounds							
							Qvalue
2) Ethanol	2.35	45	99	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.26	50	3498	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	1.60	94	246	N.D.			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.35	45	99	No Calib	#		
11) Acetone	2.34	58	472	1.331	ppb	87	
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.69	84	563	0.258	ppb	#	71
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	2.92	96	50	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22] cis-1,2-Dichloroethene	3.77	96	634m	0.245	ppb		
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	271	0.157	ppb	66	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	79	Below Cal		100	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	70	Below Cal		94	
32] Trichloroethene	5.05	95	681	0.241	ppb	#	68
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

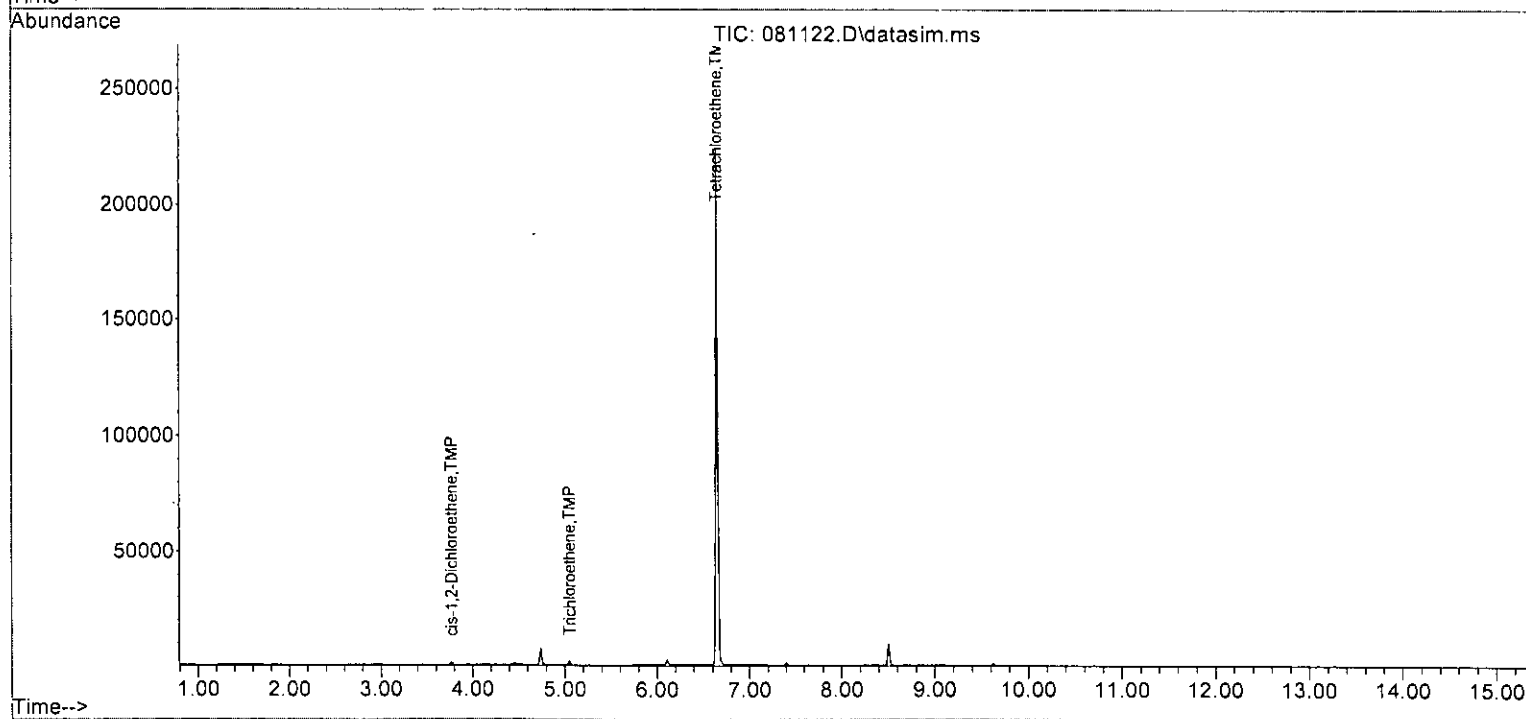
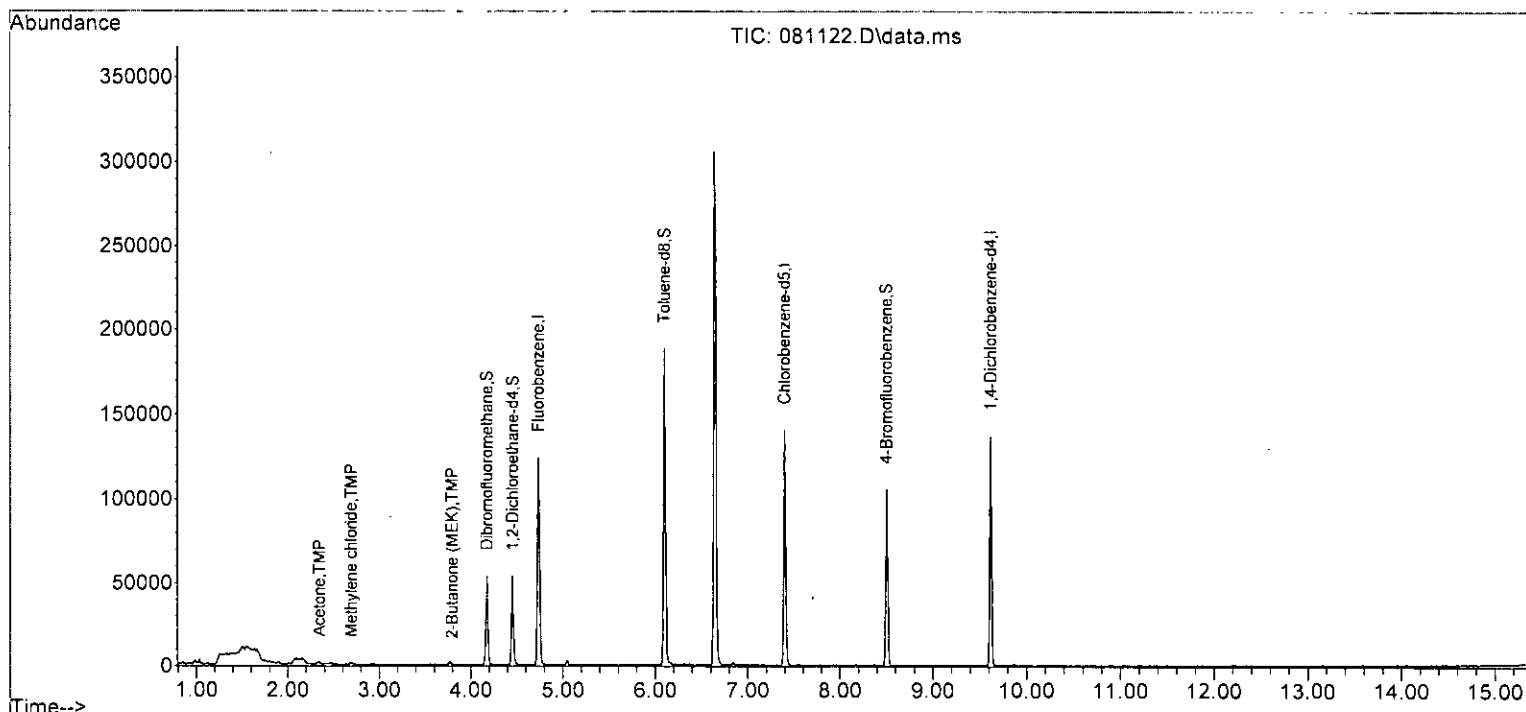
Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.16	92	61	Below Cal	87
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.52	83	49	N.D.	
43) 2-Hexanone	6.72	43	94	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.64	164	76898	28.869 ppb	98
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.54	91	55	Below Cal	96
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.64	106	41	Below Cal	98
52) o-Xylene	0.00		0	N.D.	
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	0.00		0	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	0.00		0	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	
63) 2-Chlorotoluene	0.00		0	N.D.	
64) 4-Chlorotoluene	0.00		0	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	27	N.D.	
67) sec-Butylbenzene	9.29	105	27	N.D.	
68) p-Isopropyltoluene	9.61	119	52	N.D.	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.84	128	55	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081122.D  
 Acq On : 11 Aug 2023 02:02 pm  
 Operator : MD  
 Sample : 308175-05  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

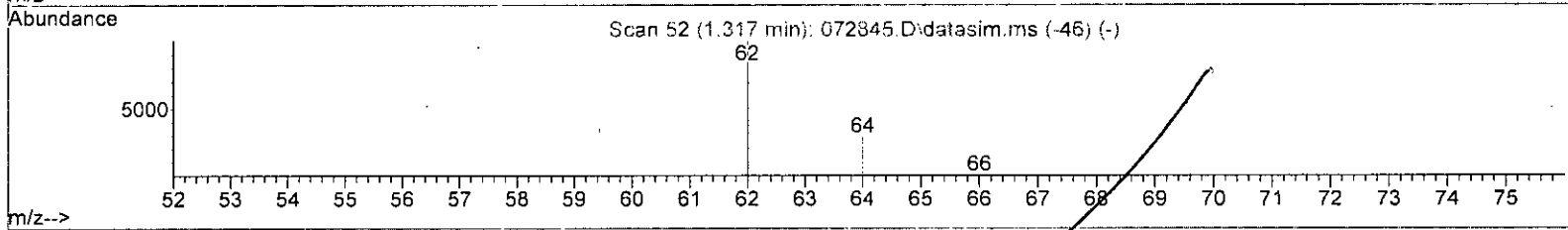
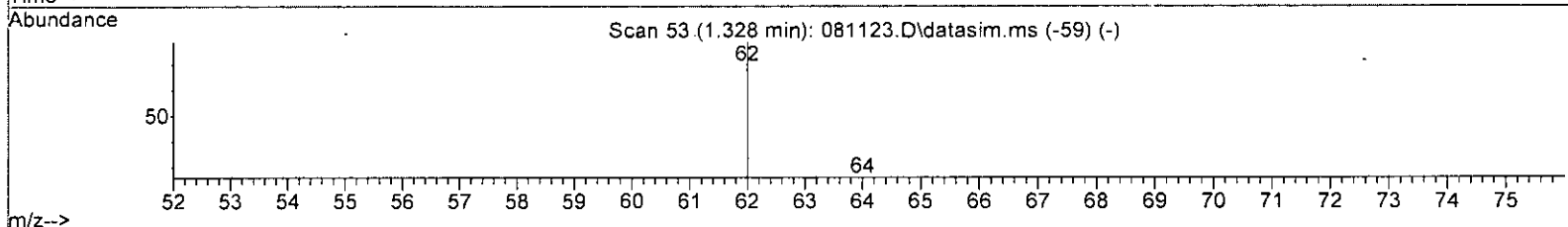
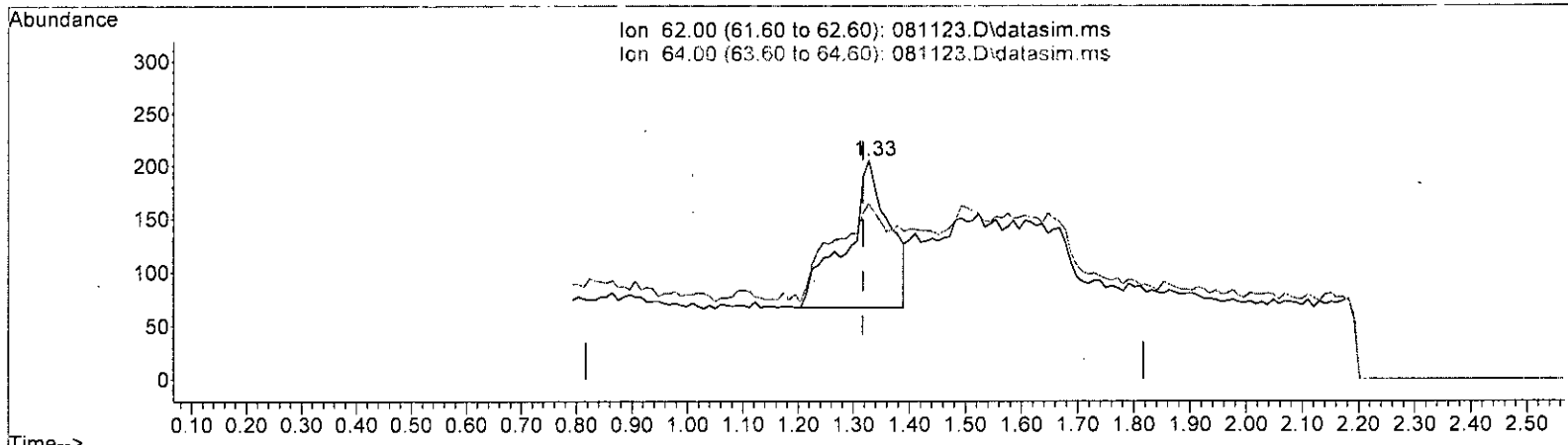
Quant Time: Aug 14 07:45:00 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081123.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.107 ppb

response : 739

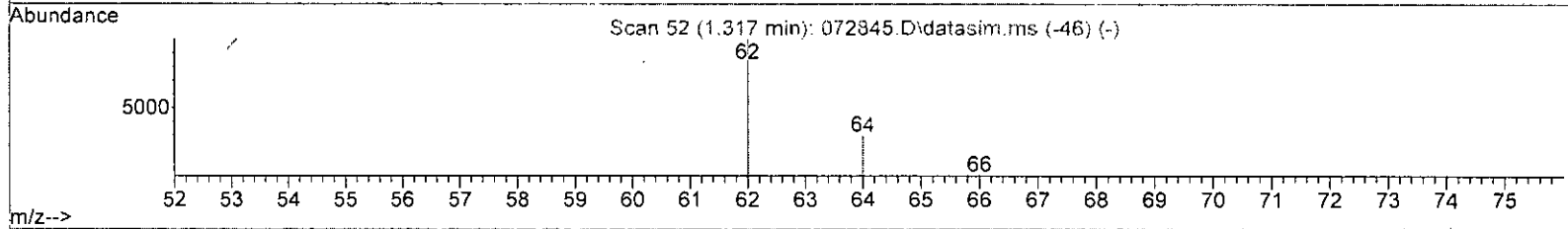
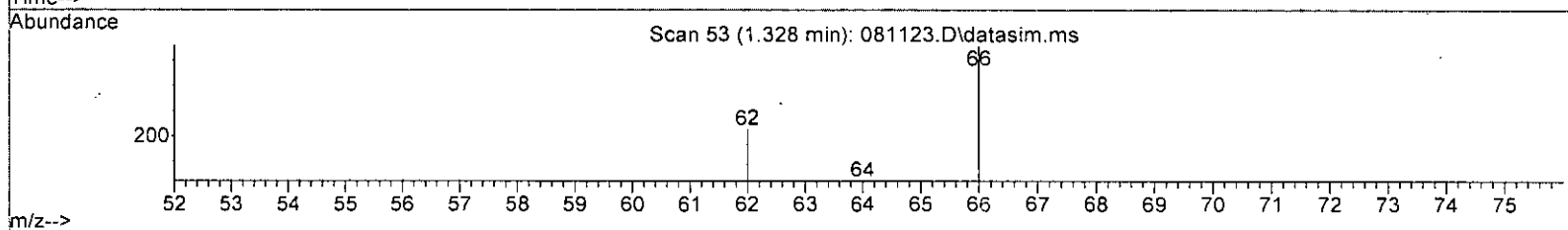
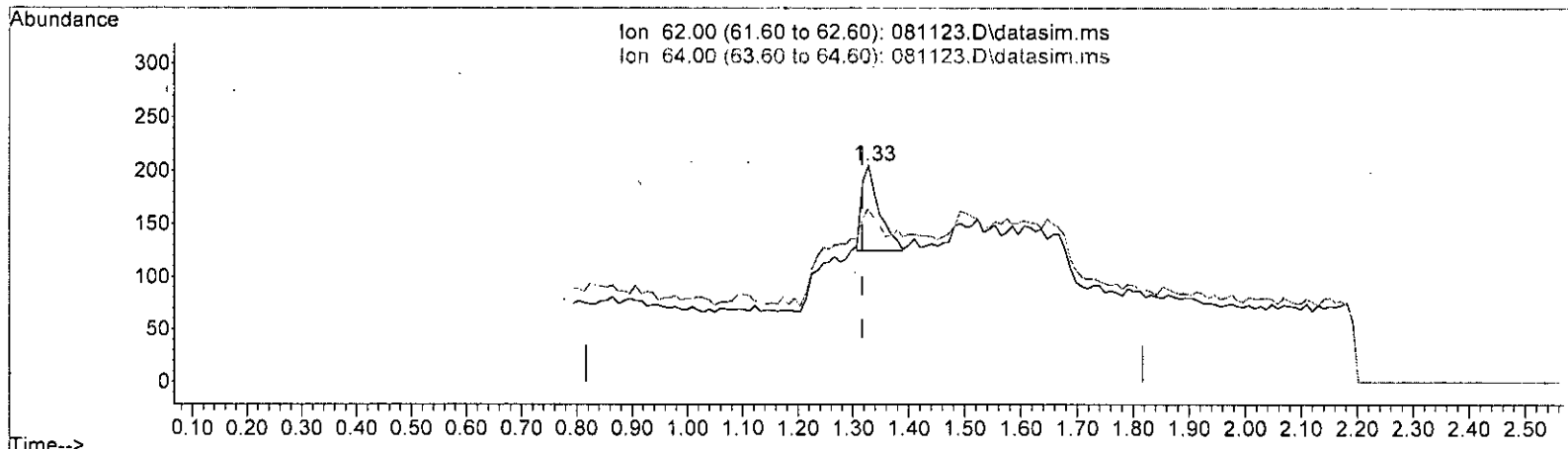
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	61.59#
0.00	0.00	0.00
0.00	0.00	0.00

*m8/14*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081123.D\data.ms

*m 8/14*

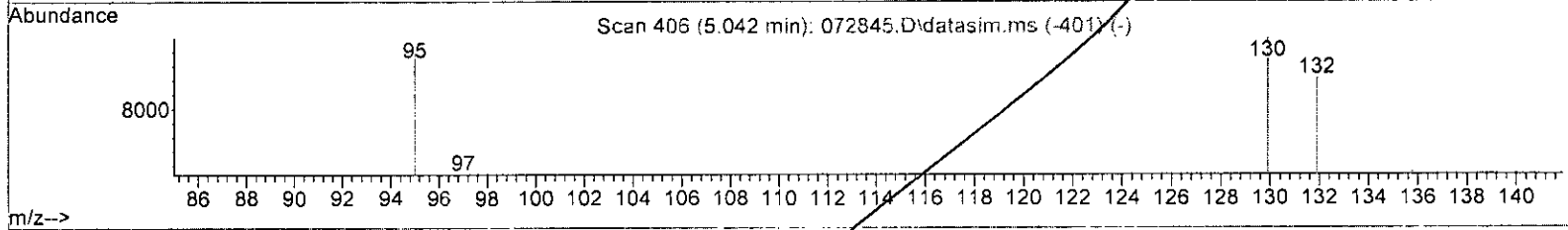
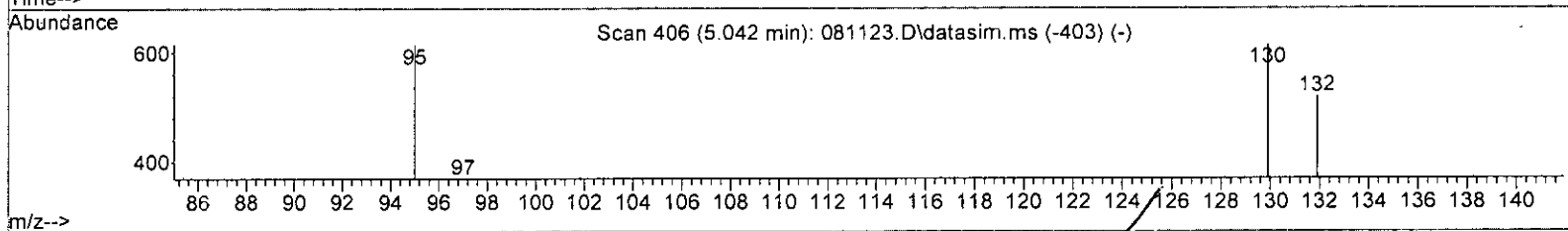
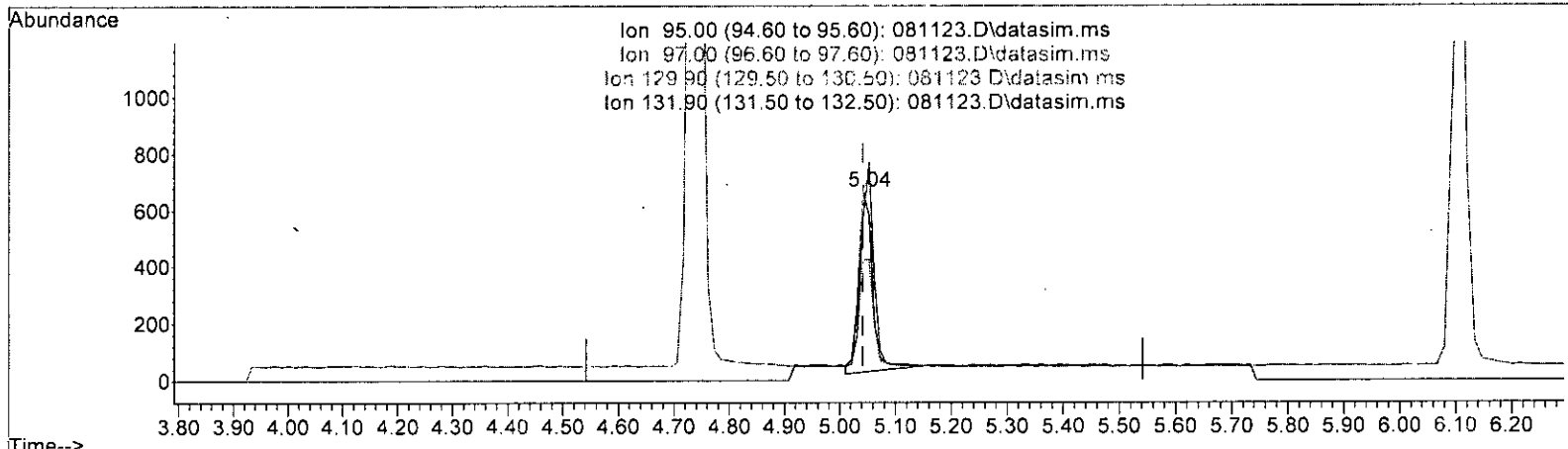
(6) Vinyl chloride (TMP)

1.328min (+ 0.011) 0.025 ppb m

response	175	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.90	80.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081123.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.399 ppb

response 1104

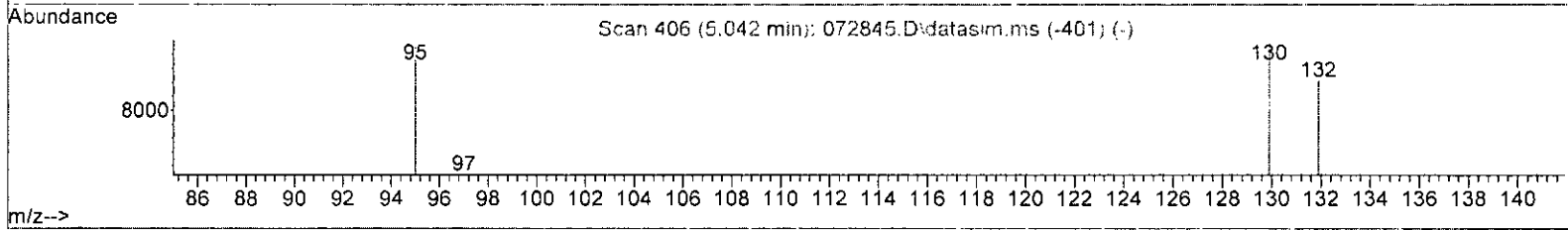
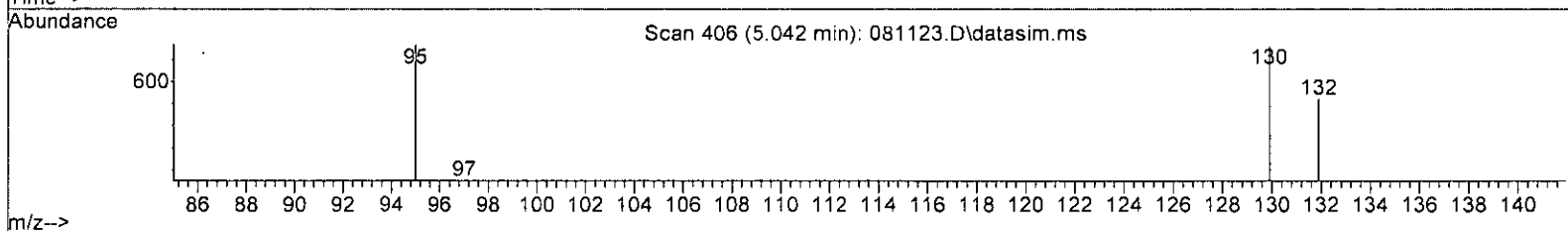
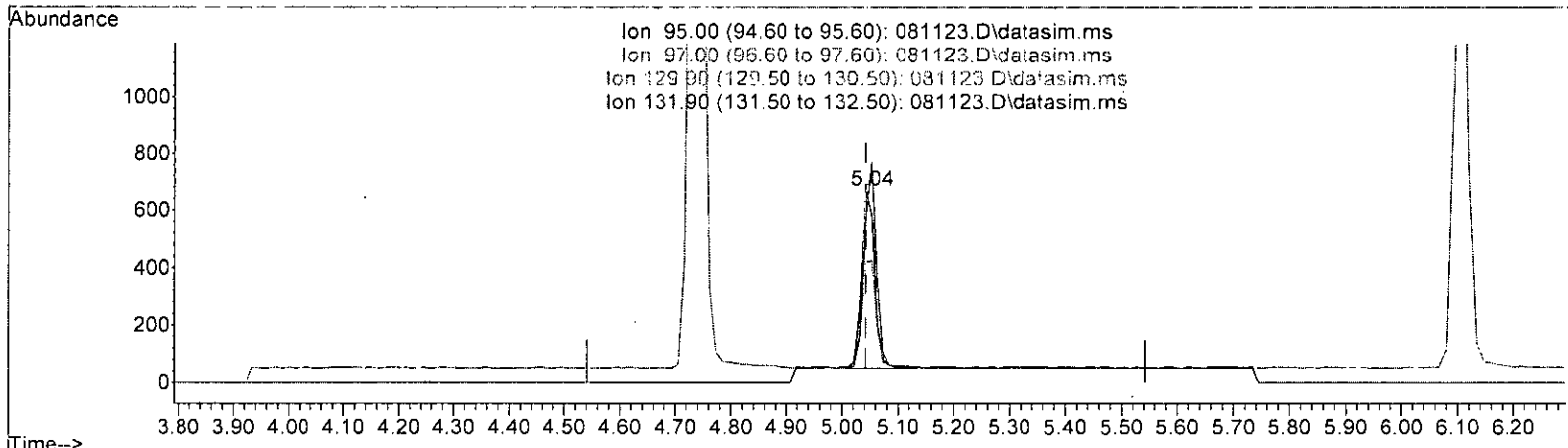
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	60.16
129.90	98.60	99.67
131.90	86.60	84.39

ms/14

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081123.D\data.ms

(32) Trichloroethene (TMP) *m-8/14*

5.042min (+ 0.000) 0.360 ppb m

response	1000
Ion	Exp% Act%
95.00	100.00 100.00
97.00	60.80 63.12
129.90	98.60 99.55
131.90	86.60 85.16

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

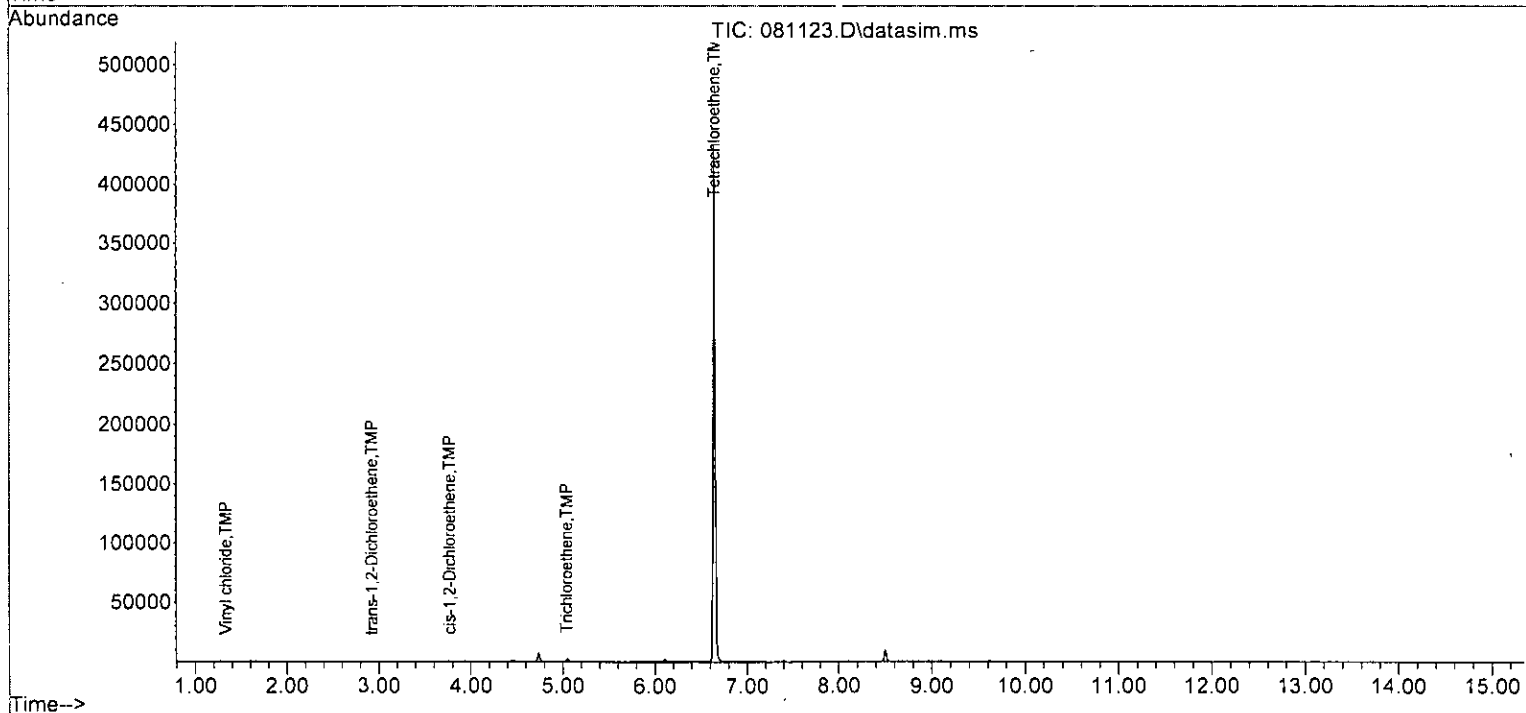
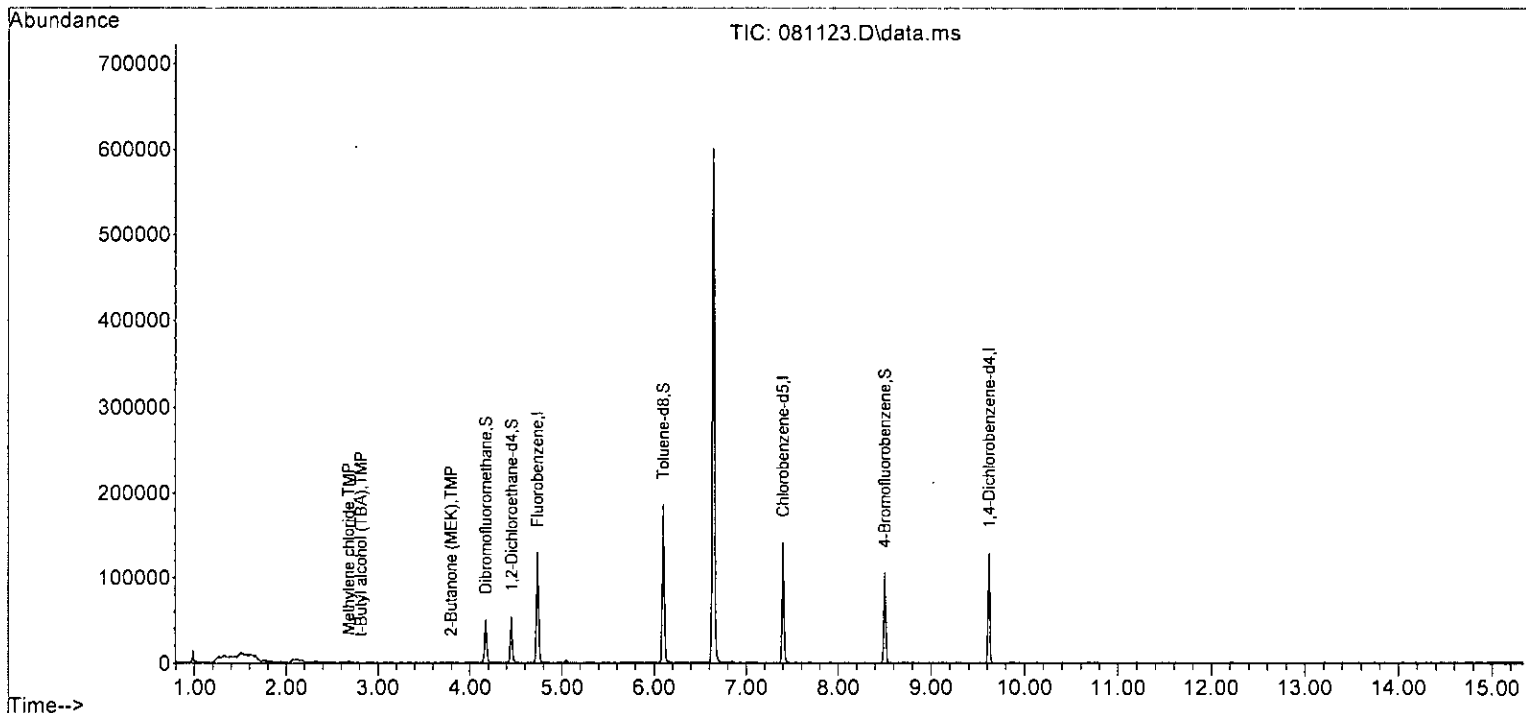
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	89845	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	66446	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	33360	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	24655	10.113	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	101.10%		
30) 1,2-Dichloroethane-d4	4.45	102	5562	10.302	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	103.00%		
35) Toluene-d8	6.10	98	98789	9.897	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	99.00%		
57) 4-Bromofluorobenzene	8.50	95	27896	9.284	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	92.80%		
Target Compounds							
							Qvalue
6] Vinyl chloride	1.33	62	175m	0.025	ppb		
14) Methylene chloride	2.68	84	854	0.390	ppb		91
15) t-Butyl alcohol (TBA)	2.82	59	31	0.106	ppb		45
17] trans-1,2-Dichloroethene	2.92	96	75	0.017	ppb		84
22] cis-1,2-Dichloroethene	3.77	96	234	0.090	ppb		90
24) 2-Butanone (MEK)	3.79	43	318	0.184	ppb		66
26] 1,2-Dichloroethane (EDC)	4.52	62	70	Below Cal			97
31] Benzene	4.50	78	66	Below Cal			63
32] Trichloroethene	5.04	95	1000m	0.360	ppb		
40] Toluene	6.16	92	61	Below Cal			96
45] Tetrachloroethene	6.64	164	147123	56.831	ppb		98
49] Ethylbenzene	7.54	91	55	Below Cal			96
51] m,p-Xylene	7.64	106	43	Below Cal			100

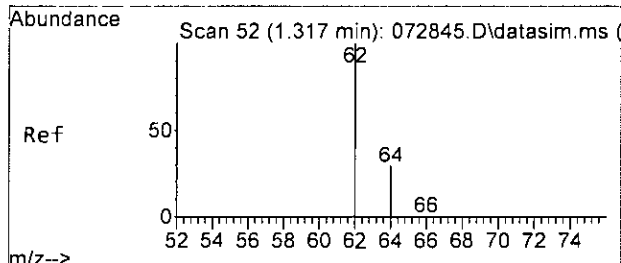
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

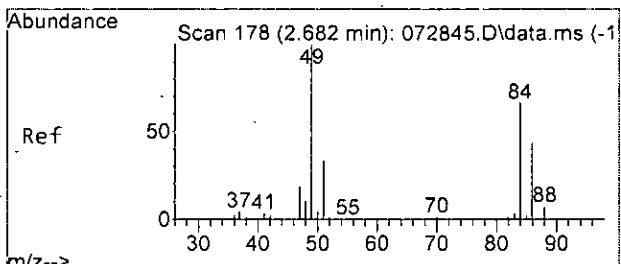
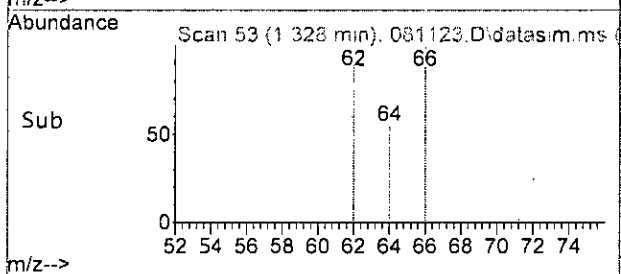
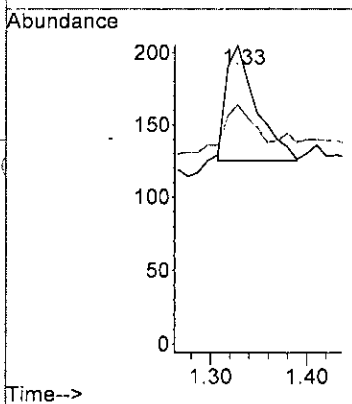
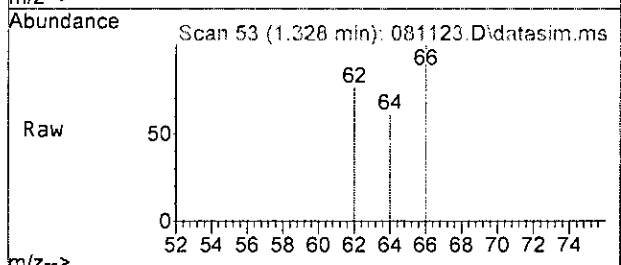
Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





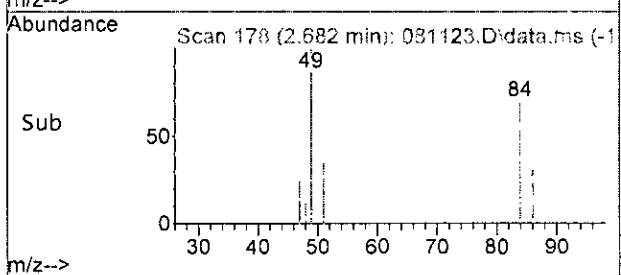
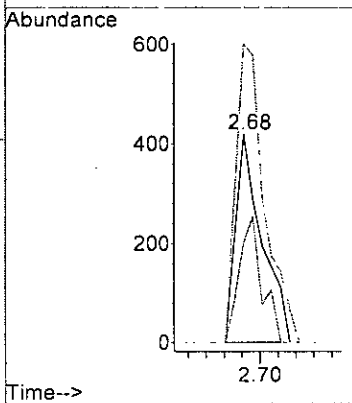
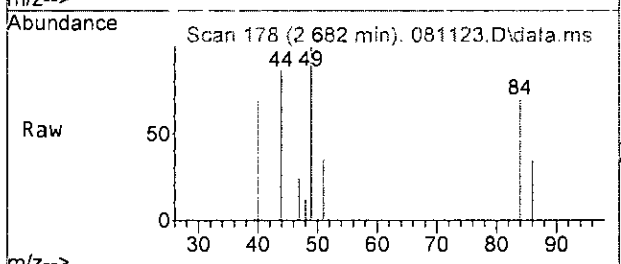
#6  
 Vinyl chloride  
 Concen: 0.025 ppb m  
 RT: 1.33 min Scan# 53  
 Delta R.T. 0.011 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

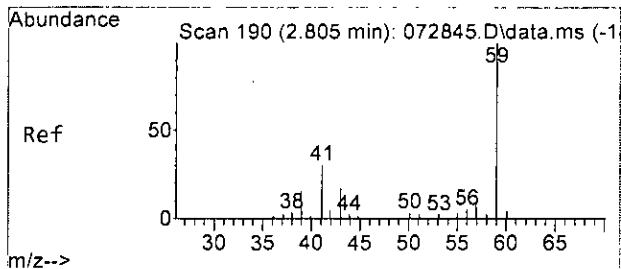
Tgt Ion: 62 Resp: 175  
 Ion Ratio Lower Upper  
 62 100  
 64 80.0 0.0 58.9#



#14  
 Methylene chloride  
 Concen: 0.390 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

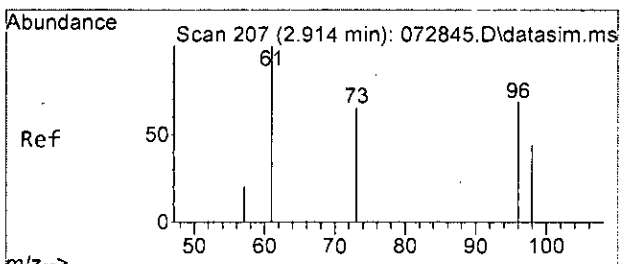
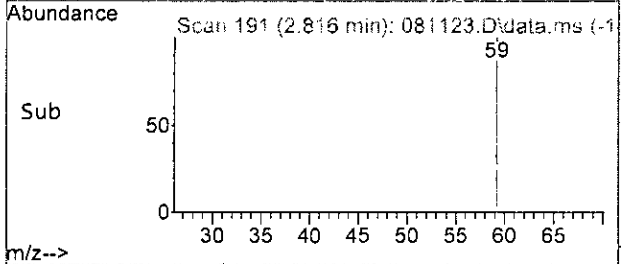
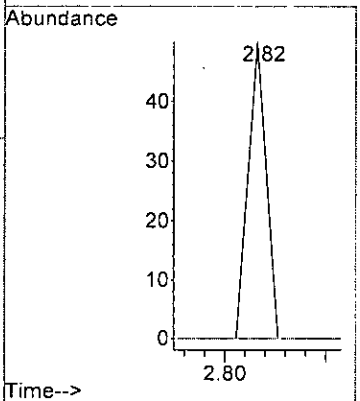
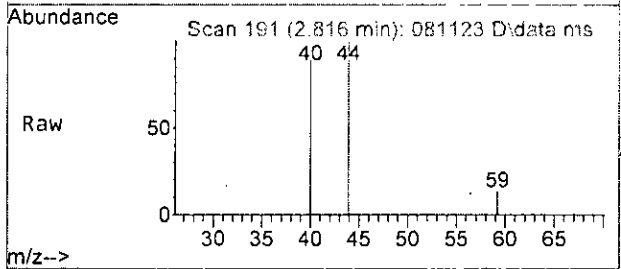
Tgt Ion: 84 Resp: 854  
 Ion Ratio Lower Upper  
 84 100  
 86 48.2 29.1 89.1  
 49 143.7 122.1 182.1





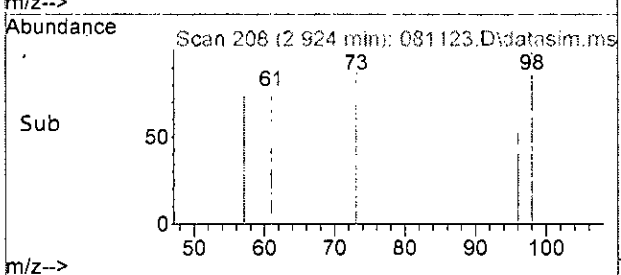
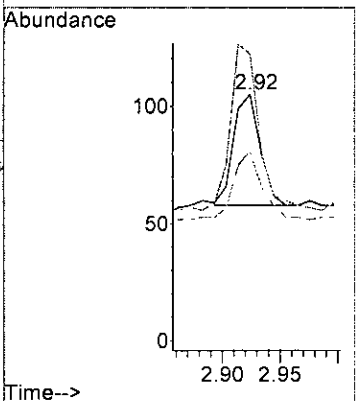
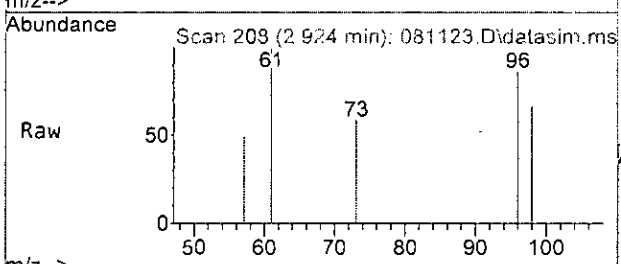
#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.106 ppb  
 RT: 2.82 min Scan# 191  
 Delta R.T. 0.011 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

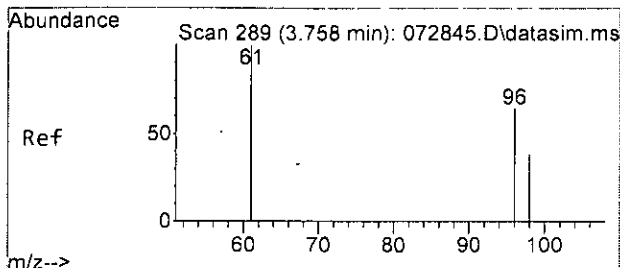
Tgt Ion: 59 Resp: 31  
 Ion Ratio Lower Upper  
 59 100  
 41 0.0 0.0 59.6



#17  
 trans-1,2-Dichloroethene  
 Concen: 0.017 ppb  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

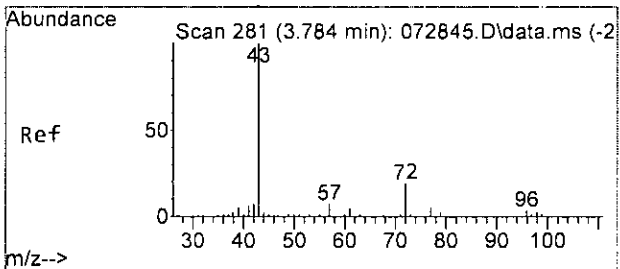
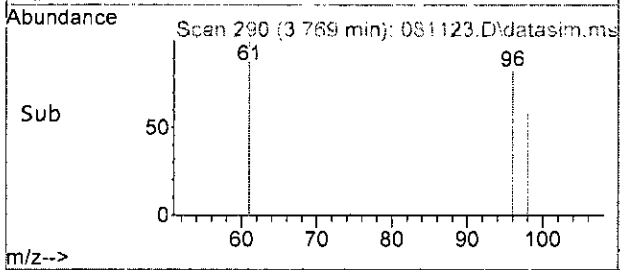
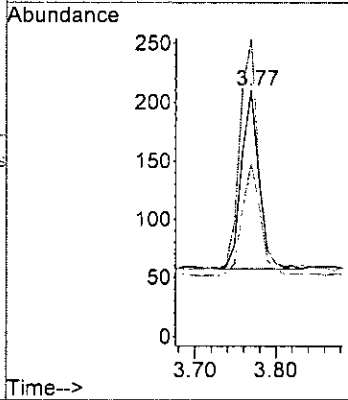
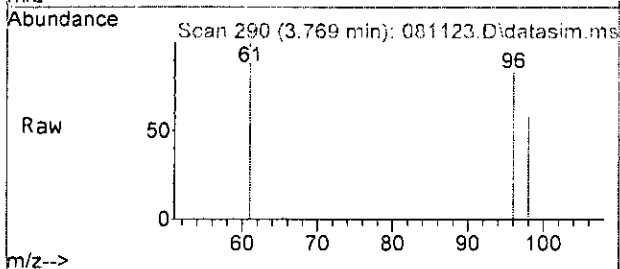
Tgt Ion: 96 Resp: 75  
 Ion Ratio Lower Upper  
 96 100  
 61 136.2 135.6 195.6  
 98 59.6 30.8 90.8





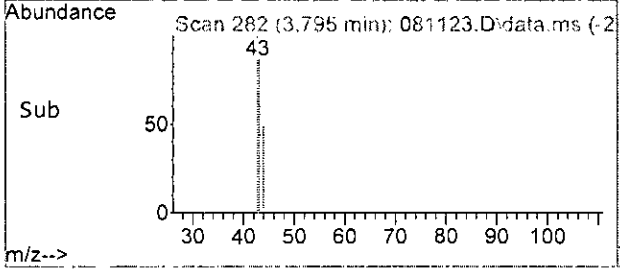
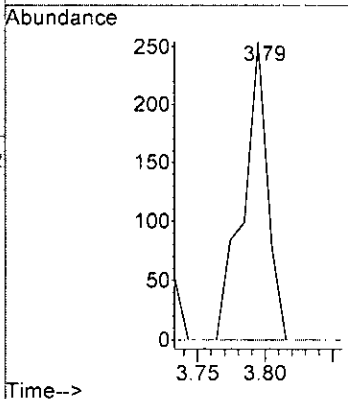
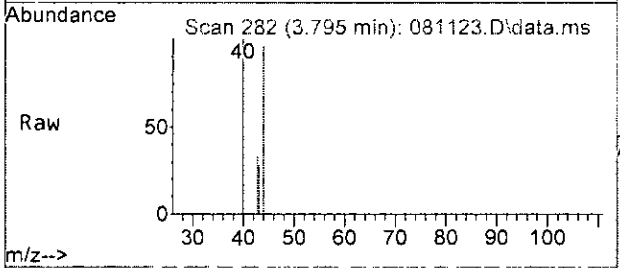
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.090 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

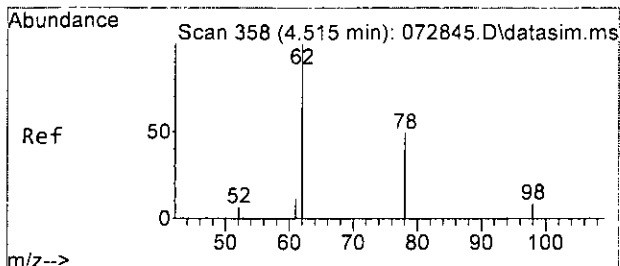
Tgt Ion	Resp	Lower	Upper
96	100		
61	128.1	112.0	172.0
98	63.4	38.6	98.6



#24  
 2-Butanone (MEK)  
 Concen: 0.184 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.011 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

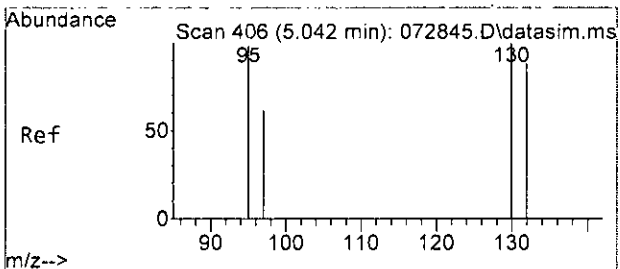
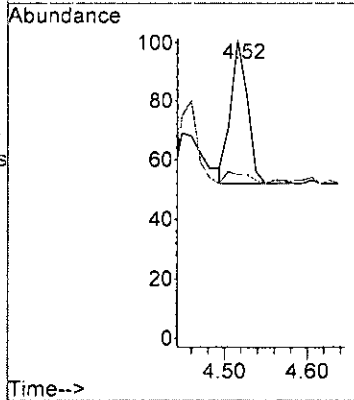
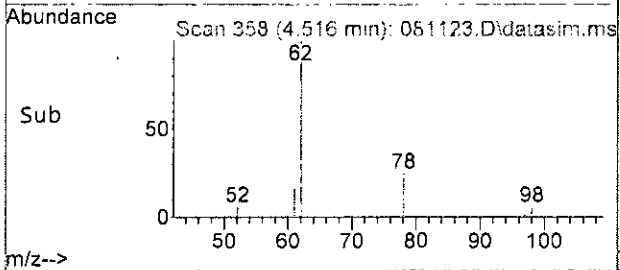
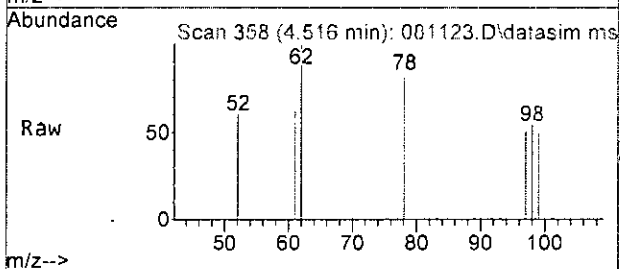
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	47.3
57	0.0	0.0	27.2





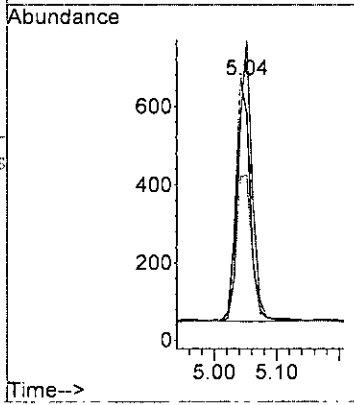
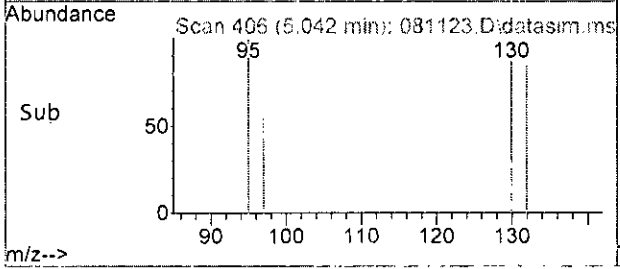
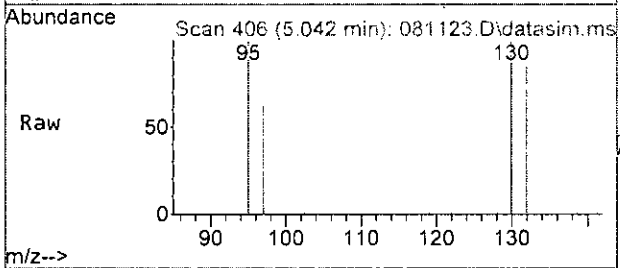
#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.001 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

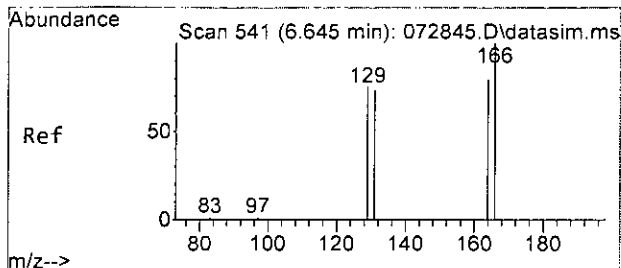
Tgt Ion	Resp	Lower	Upper
62	100		
98	6.1	0.0	37.3



#32  
 Trichloroethene  
 Concen: 0.360 ppb m  
 RT: 5.04 min Scan# 406  
 Delta R.T. 0.000 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

Tgt Ion	Resp	Lower	Upper
95	100		
97	63.1	30.8	90.8
130	99.6	68.6	128.6
132	85.2	56.6	116.6

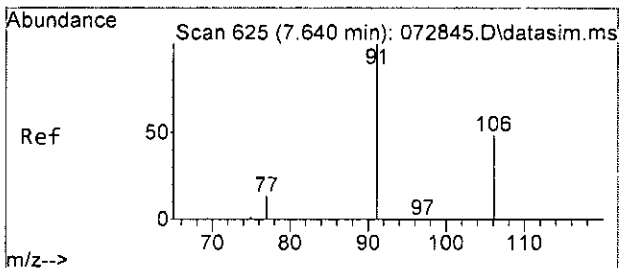
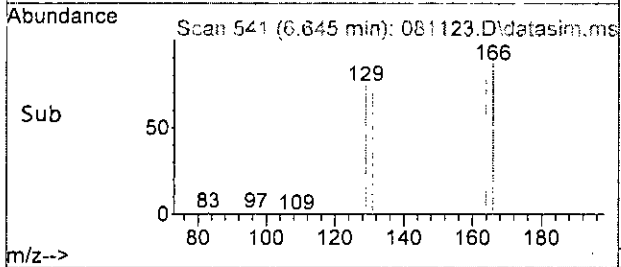
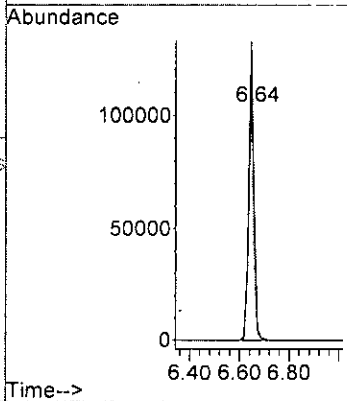
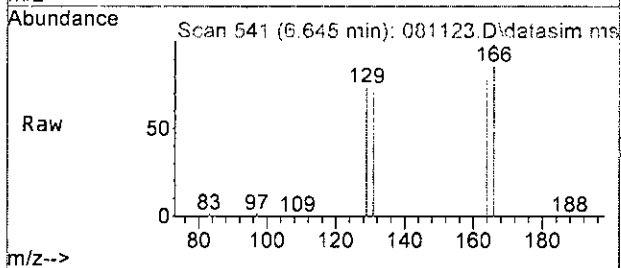




#45  
 Tetrachloroethene  
 Concen: 56.831 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

Tgt Ion:164 Resp: 147123

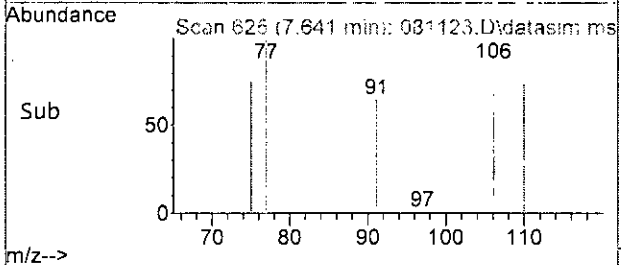
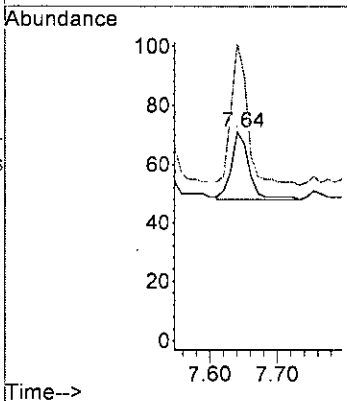
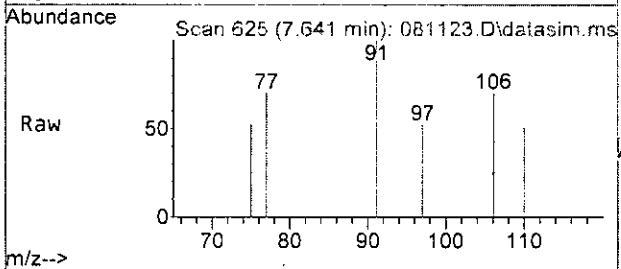
Ion	Ratio	Lower	Upper
164	100		
129	94.0	60.7	120.7
131	91.2	60.4	120.4
166	127.7	99.4	159.4



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081123.D  
 Acq: 11 Aug 2023 02:25 pm

Tgt Ion:106 Resp: 43

Ion	Ratio	Lower	Upper
106	100		
91	208.7	178.3	238.3



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	89845	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	66446	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	33360	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	24655	10.113	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	101.10%		
30) 1,2-Dichloroethane-d4	4.45	102	5562	10.302	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	103.00%		
35) Toluene-d8	6.10	98	98789	9.897	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	99.00%		
57) 4-Bromofluorobenzene	8.50	95	27896	9.284	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	92.80%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.25	50	2132		N.D.		
6] Vinyl chloride	1.33	62	175m	0.025	ppb		
7) Bromomethane	0.00		0		N.D. d		
8) Chloroethane	0.00		0		N.D.		
9) Trichlorofluoromethane	0.00		0		N.D.		
10) 2-Propanol	0.00		0		N.D.		
11) Acetone	2.34	58	284		N.D.		
12) 1,1-Dichloroethene	0.00		0		N.D. d		
13) Hexane	0.00		0		N.D.		
14) Methylene chloride	2.68	84	854	0.390	ppb		91
15) t-Butyl alcohol (TBA)	2.82	59	31	0.106	ppb		45
16) Methyl t-butyl ether (...)	2.93	73	48		N.D.		
17] trans-1,2-Dichloroethene	2.92	96	75	0.017	ppb		84
18) Diisopropyl ether (DIPE)	0.00		0		N.D.		
19) 1,1-Dichloroethane	0.00		0		N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	0.00		0		N.D.		
22] cis-1,2-Dichloroethene	3.77	96	234	0.090	ppb		90
23) Chloroform	0.00		0		N.D.		
24) 2-Butanone (MEK)	3.79	43	318	0.184	ppb		66
25) t-Amyl methyl ether (T...)	0.00		0		N.D.		
26] 1,2-Dichloroethane (EDC)	4.52	62	70	Below Cal			97
27) 1,1,1-Trichloroethane	0.00		0		N.D.		
28) 1,1-Dichloropropene	0.00		0		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31] Benzene	4.50	78	66	Below Cal			63
32] Trichloroethene	5.04	95	1000m	0.360	ppb		
33) 1,2-Dichloropropane	0.00		0		N.D.		
34) Bromodichloromethane	0.00		0		N.D.		
36) Dibromomethane	0.00		0		N.D.		

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

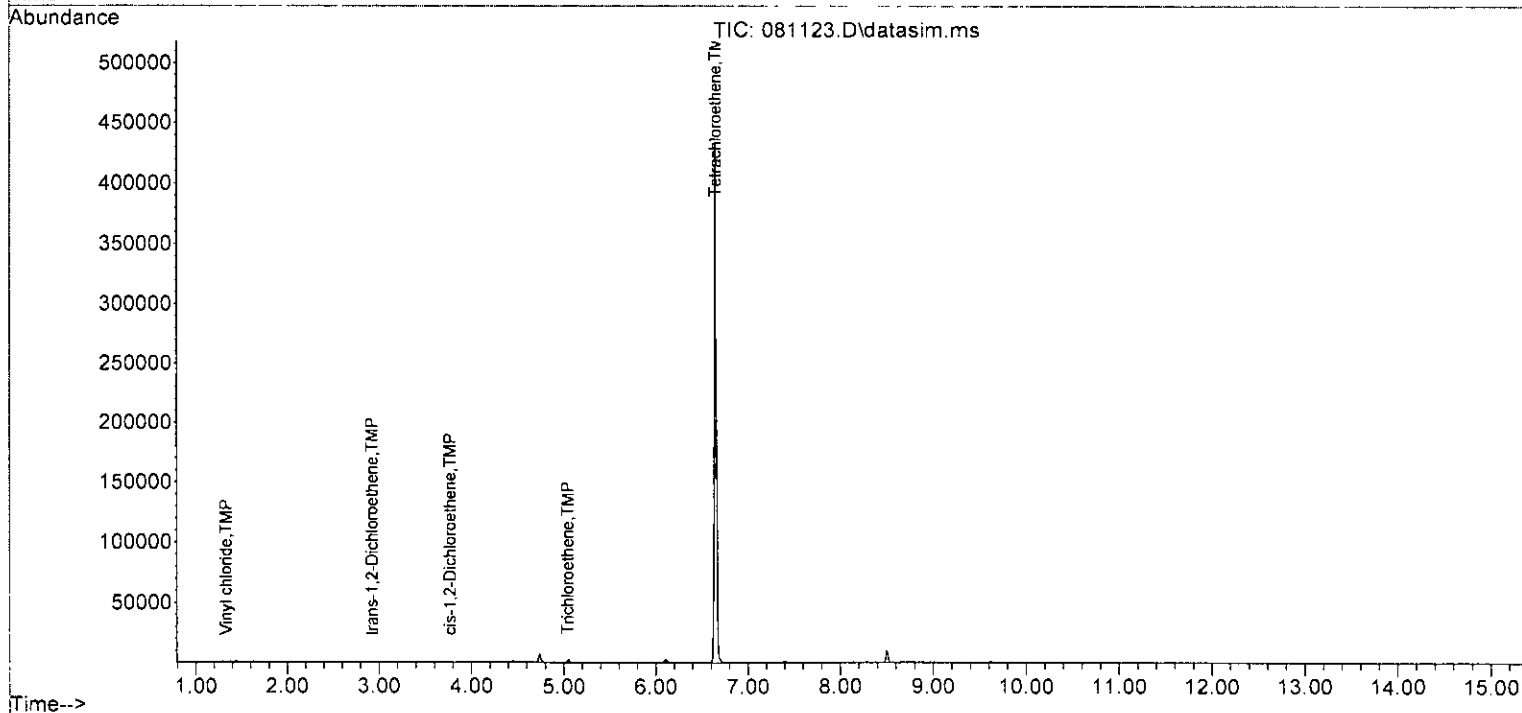
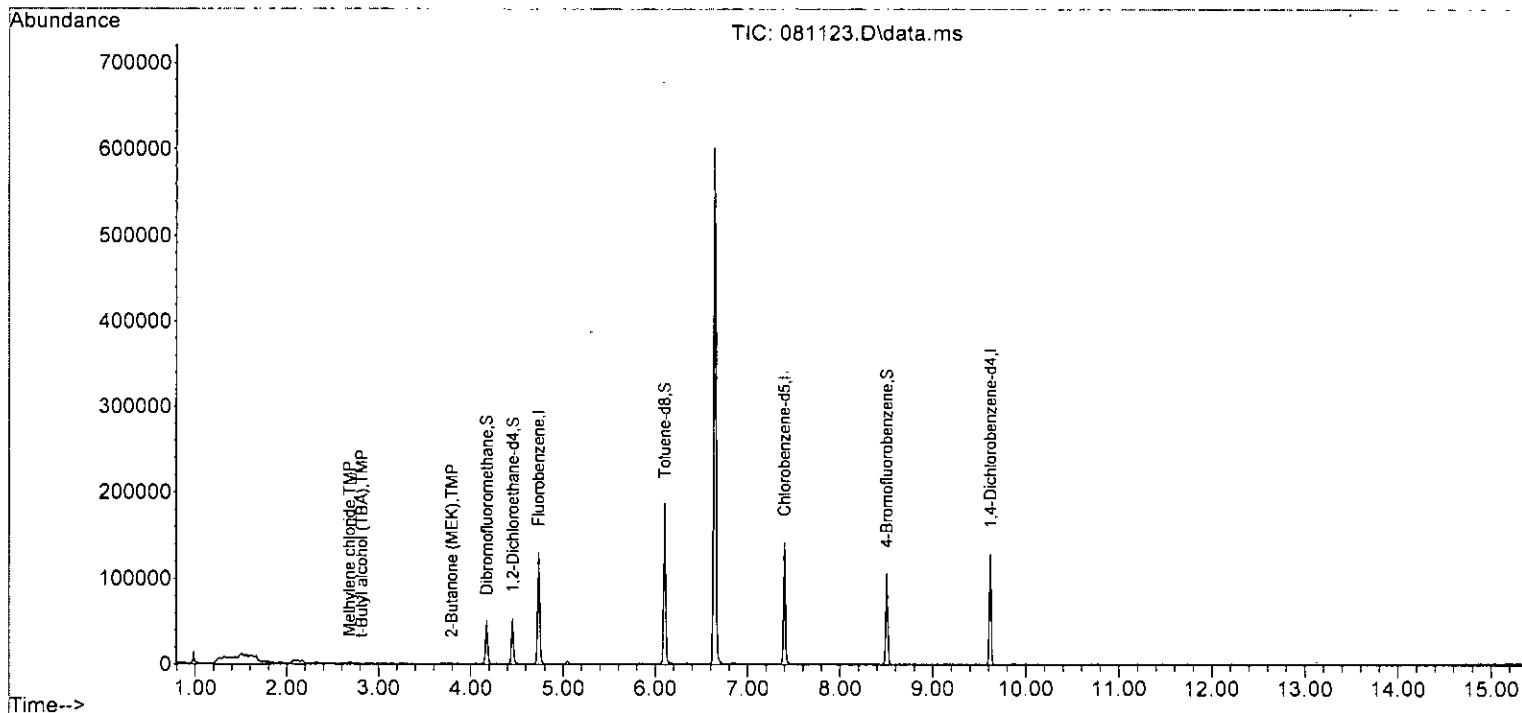
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	61	Below Cal		96
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	6.76	43	52		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.64	164	147123	56.831	ppb	98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	55	Below Cal		96
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	43	Below Cal		100
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D.	
64) 4-Chlorotoluene	0.00		0		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	51		N.D.	
67) sec-Butylbenzene	9.29	105	51		N.D.	
68) p-Isopropyltoluene	9.61	119	202		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081123.D  
 Acq On : 11 Aug 2023 02:25 pm  
 Operator : MD  
 Sample : 308175-06  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

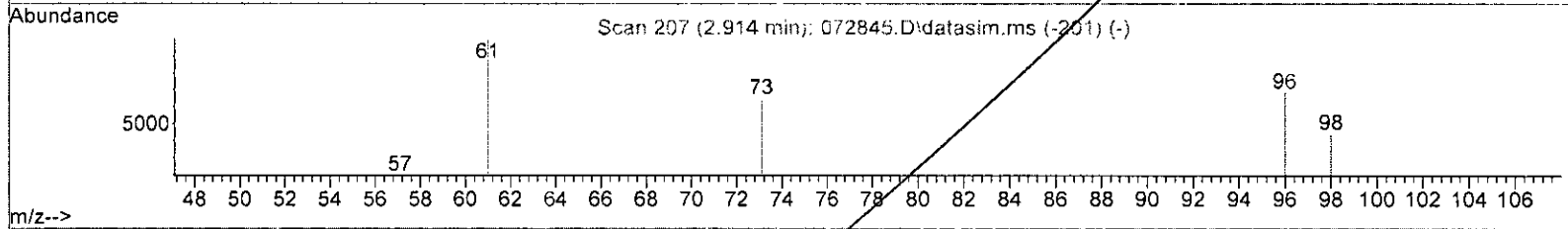
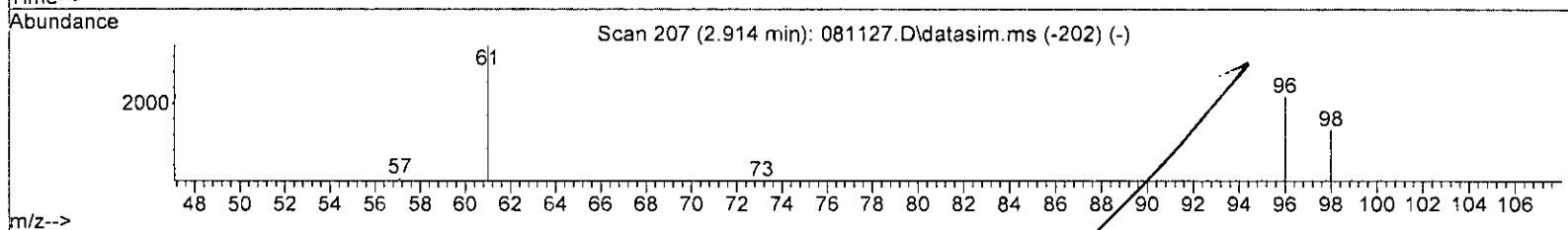
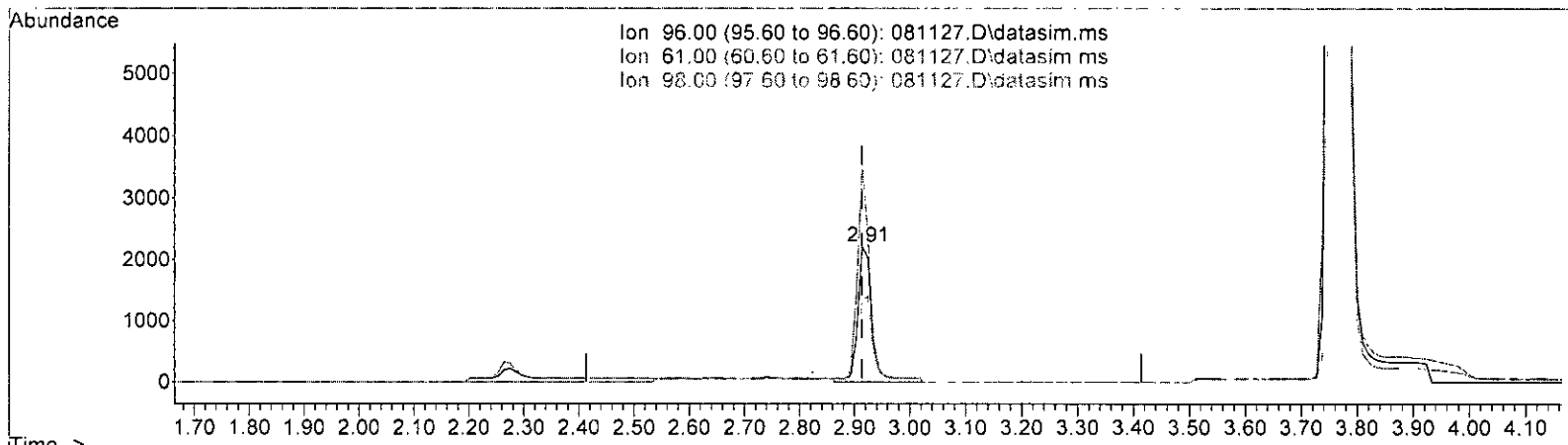
Quant Time: Aug 14 07:45:04 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081127.D  
 Acq On : 11 Aug 2023 03:59 pm  
 Operator : MD  
 Sample : 308175-07 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081127.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *8/14*

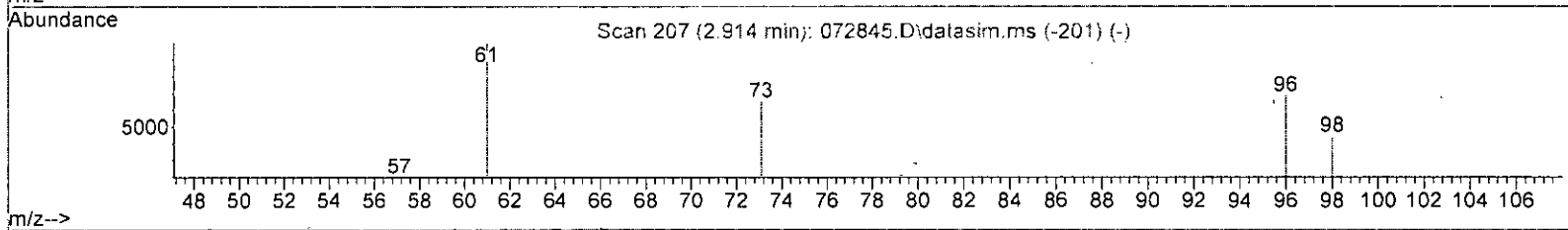
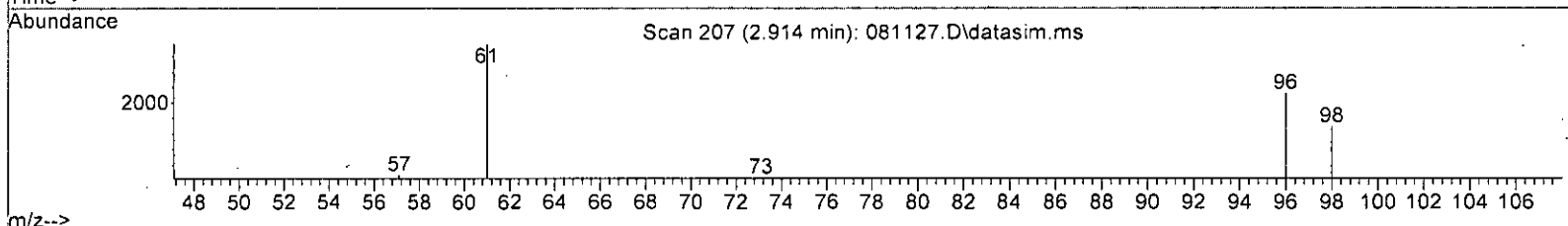
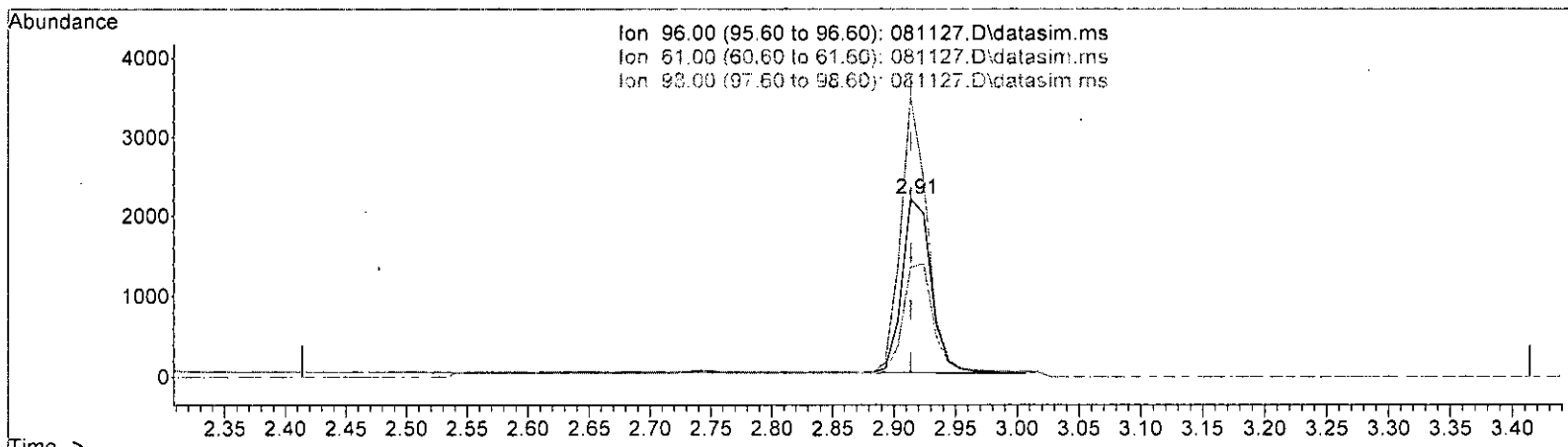
2.914min (-0.000) 1.775 ppb

response	Ion	Exp%	Act%
4032	96.00	100.00	100.00
	61.00	165.60	159.03
	98.00	60.80	61.28
	0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081127.D  
 Acq'On : 11 Aug 2023 03:59 pm  
 Operator : MD  
 Sample : 308175-07 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081127.D\data.ms *MB/14*

(17) trans-1,2-Dichloroethene (TMP)  
 2.914min (-0.000) 1.565 ppb m  
 response 3559

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	165.60	159.03
98.00	60.80	61.28
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081127.D  
 Acq On : 11 Aug 2023 03:59 pm  
 Operator : MD  
 Sample : 308175-07 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

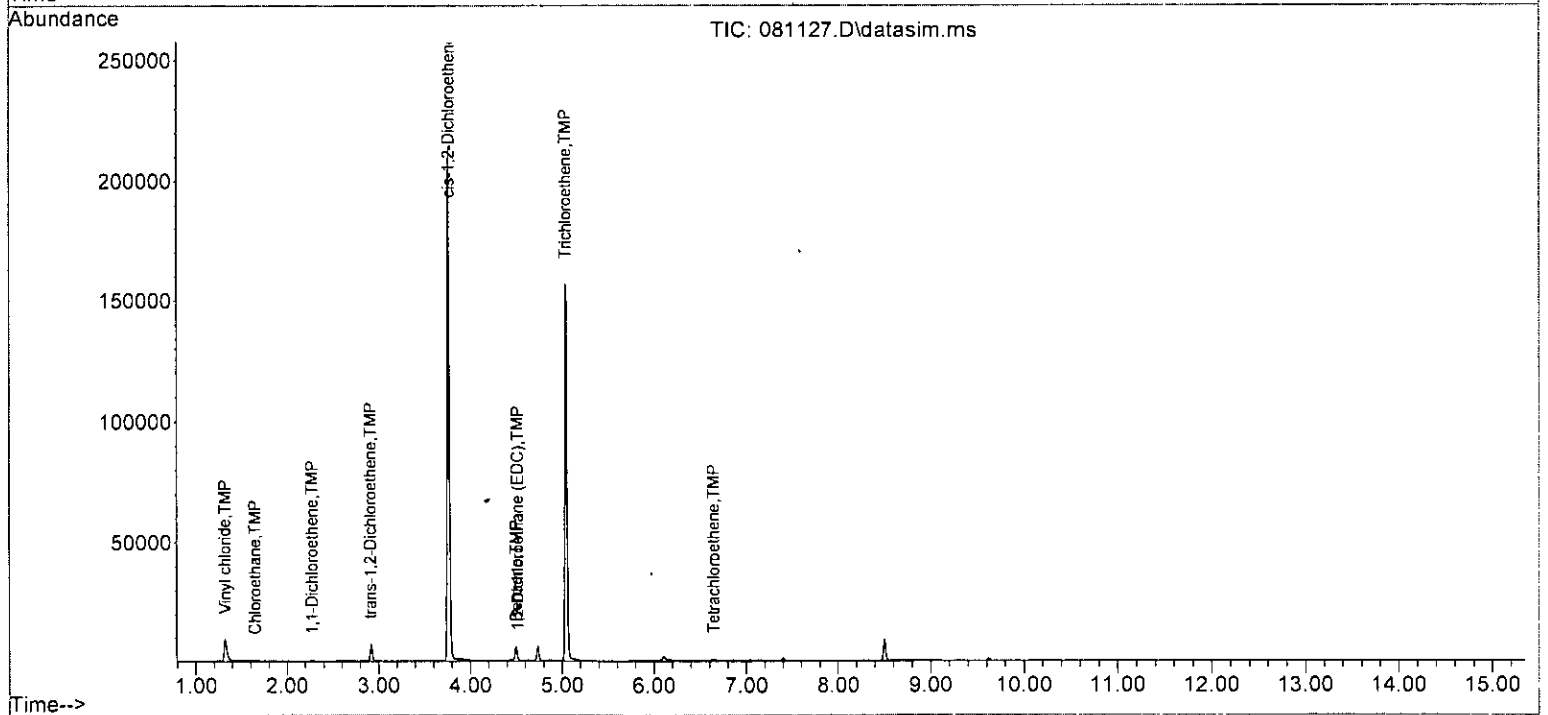
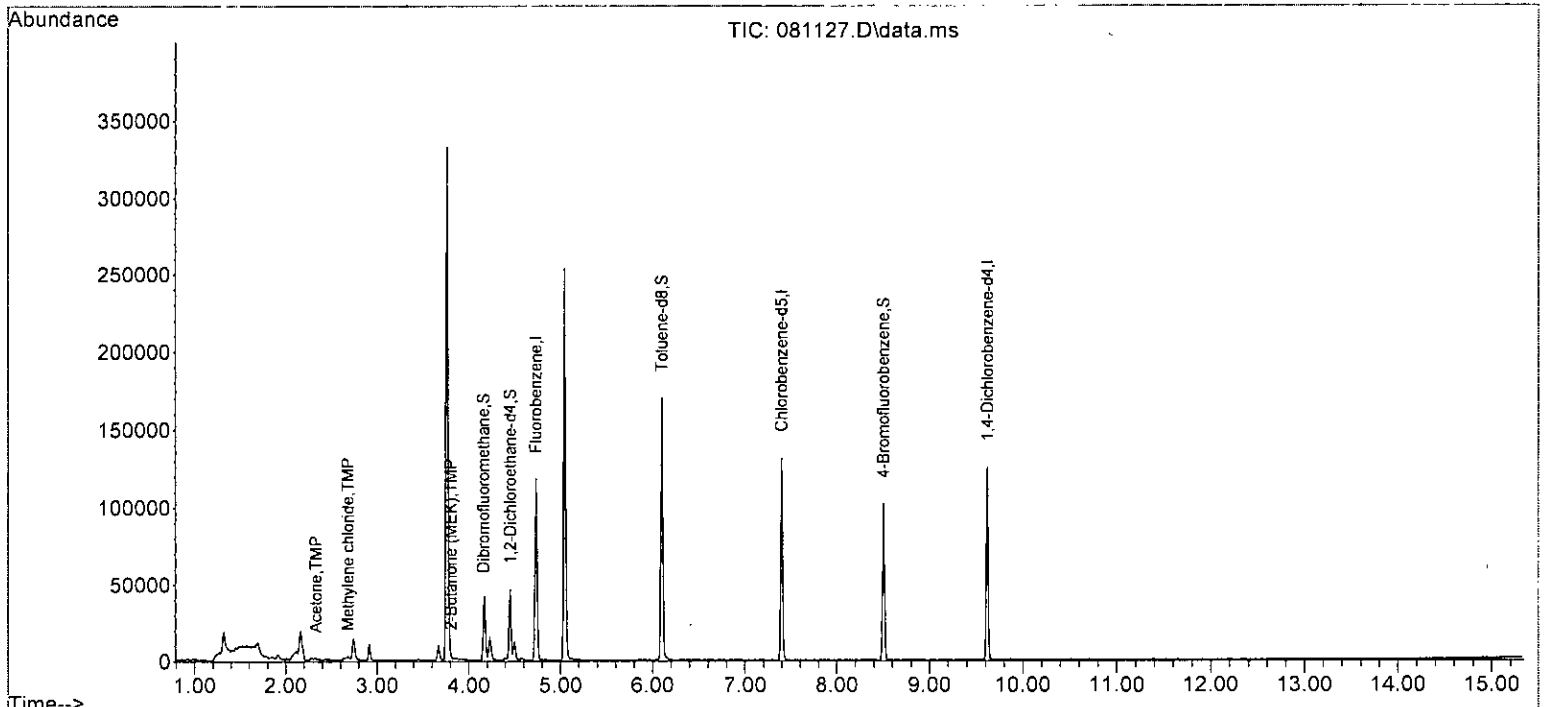
Quant Time: Aug 14 07:45:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

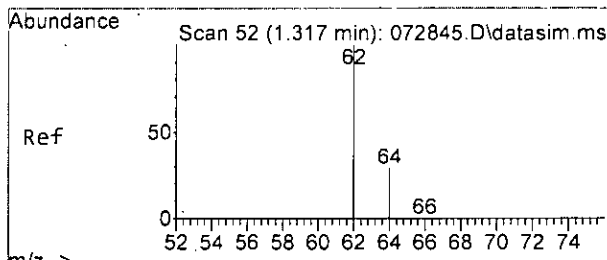
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	88495	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	61953	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	31469	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	22302	9.288	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	92.90%	
30) 1,2-Dichloroethane-d4	4.45	102	5083	9.559	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	95.60%	
35) Toluene-d8	6.10	98	90008	9.154	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	91.50%	
57) 4-Bromofluorobenzene	8.50	95	26838	9.469	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.70%	
Target Compounds						
						Qvalue
6] Vinyl chloride	1.32	62	14483	2.129	ppb	100
8] Chloroethane	1.65	64	465	0.163	ppb #	1
11] Acetone	2.33	58	357	1.019	ppb #	82
12] 1,1-Dichloroethene	2.27	96	858	0.349	ppb	83
14) Methylene chloride	2.68	84	653	0.303	ppb	80
17] trans-1,2-Dichloroethene	2.91	96	3559m	1.565	ppb	
22] cis-1,2-Dichloroethene	3.77	96	120395	47.113	ppb	88
24) 2-Butanone (MEK)	3.81	43	230	0.135	ppb	66
26] 1,2-Dichloroethane (EDC)	4.52	62	216	0.031	ppb	92
31] Benzene	4.50	78	8057	0.928	ppb	99
32] Trichloroethene	5.04	95	65658	24.928	ppb	96
45] Tetrachloroethene	6.64	164	148	0.040	ppb	95
51] m,p-Xylene	7.64	106	30	Below Cal		98

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081127.D  
 Acq On : 11 Aug 2023 03:59 pm  
 Operator : MD  
 Sample : 308175-07 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

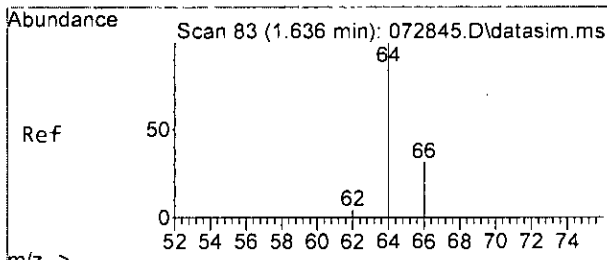
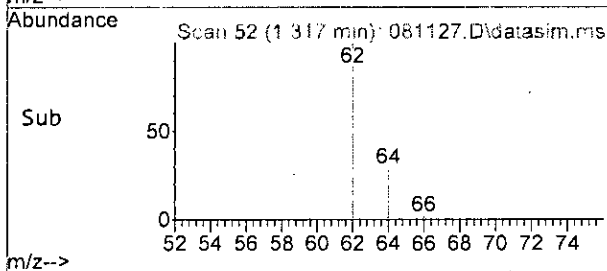
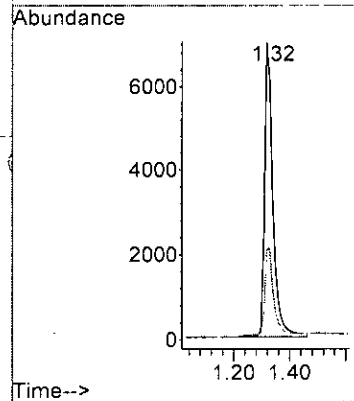
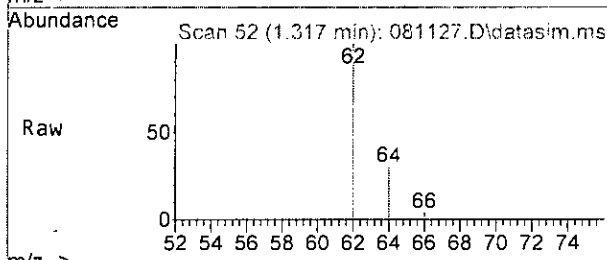
Quant Time: Aug 14 07:45:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





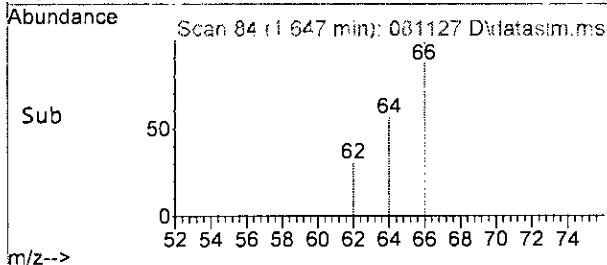
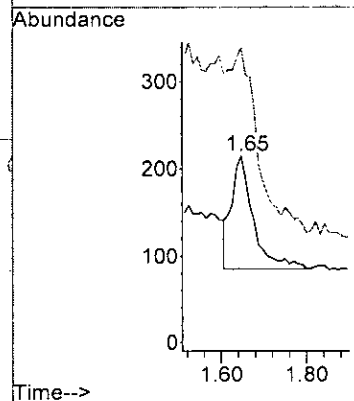
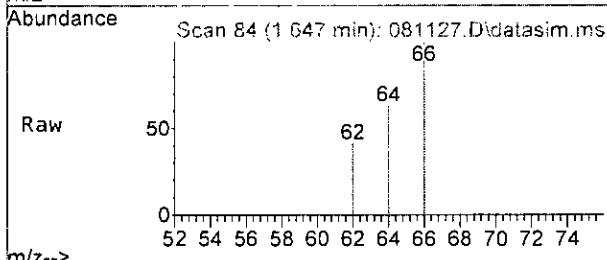
#6  
 Vinyl chloride  
 Concen: 2.129 ppb  
 RT: 1.32 min Scan# 52  
 Delta R.T. 0.000 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

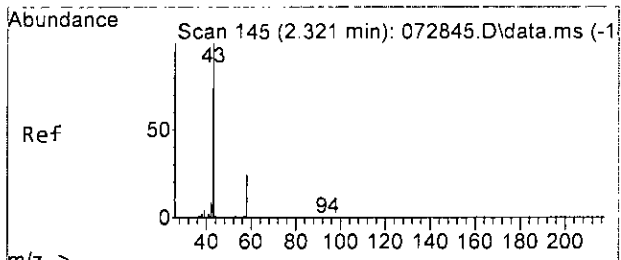
Tgt Ion: 62 Resp: 14483  
 Ion Ratio Lower Upper  
 62 100  
 64 28.9 0.0 58.9



#8  
 Chloroethane  
 Concen: 0.163 ppb  
 RT: 1.65 min Scan# 84  
 Delta R.T. 0.011 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

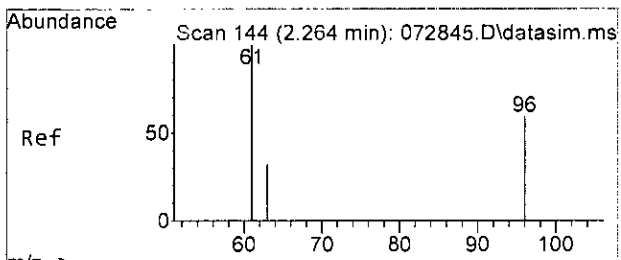
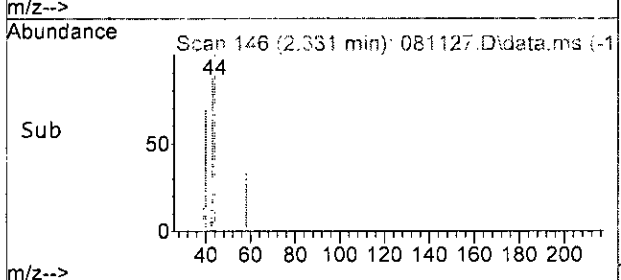
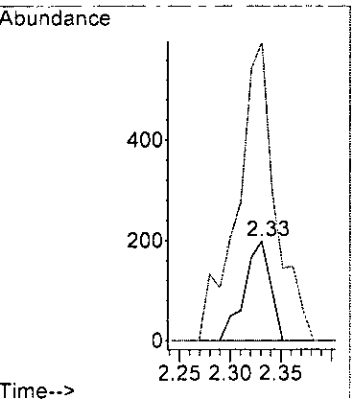
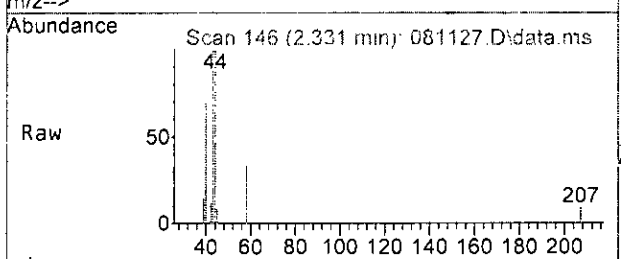
Tgt Ion: 64 Resp: 465  
 Ion Ratio Lower Upper  
 64 100  
 66 163.8 0.0 59.8#





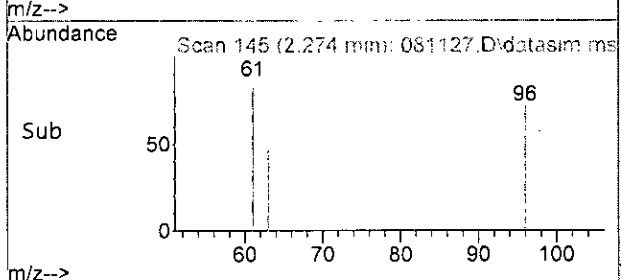
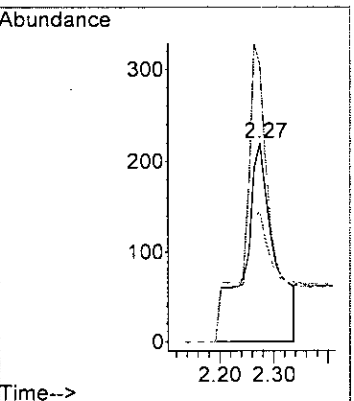
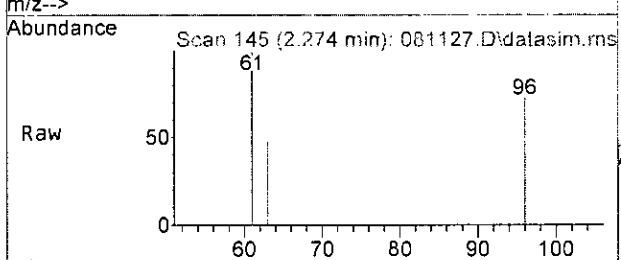
#11  
 Acetone  
 Concen: 1.019 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

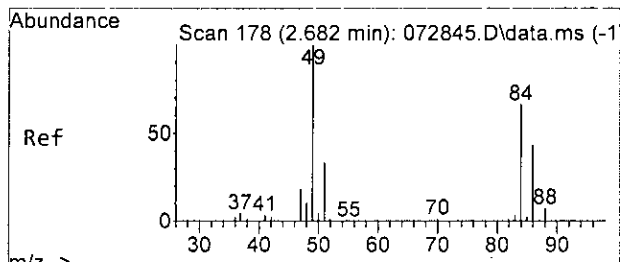
Tgt Ion: 58 Resp: 357  
 Ion Ratio Lower Upper  
 58 100  
 43 435.9 363.1 423.1#



#12  
 1,1-Dichloroethene  
 Concen: 0.349 ppb  
 RT: 2.27 min Scan# 145  
 Delta R.T. 0.010 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

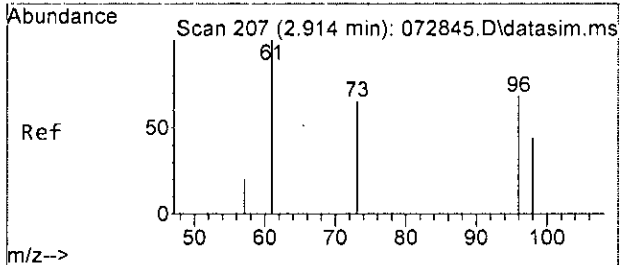
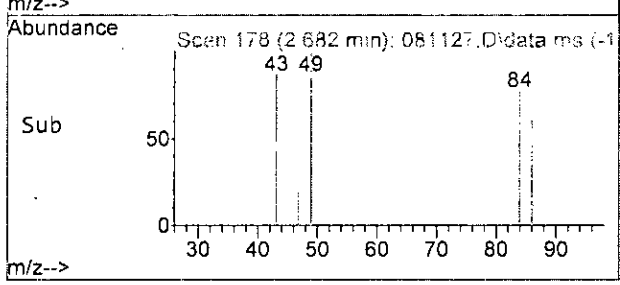
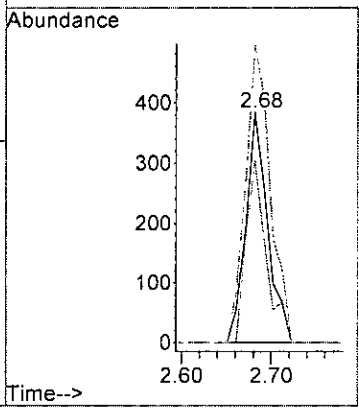
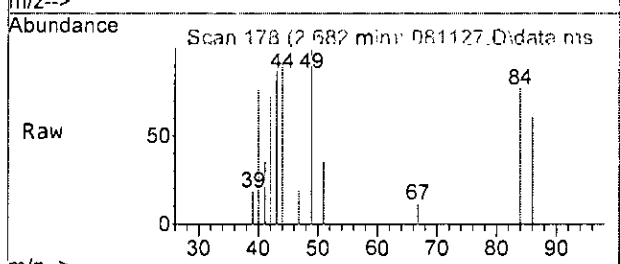
Tgt Ion: 96 Resp: 858  
 Ion Ratio Lower Upper  
 96 100  
 61 138.6 132.9 192.9  
 63 65.5 24.9 84.9





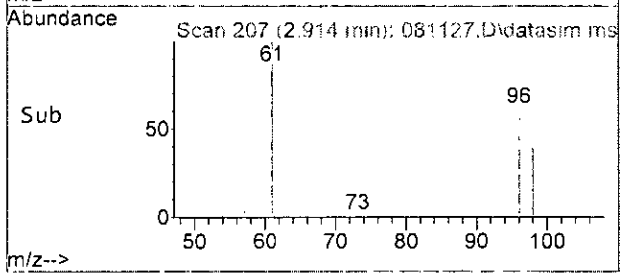
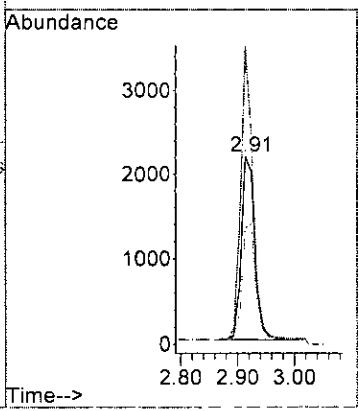
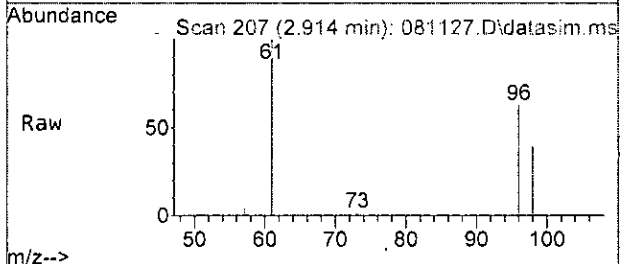
#14  
 Methylene chloride  
 Concen: 0.303 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

Tgt Ion	Resp	Lower	Upper
84	100		
86	79.4	29.1	89.1
49	129.2	122.1	182.1

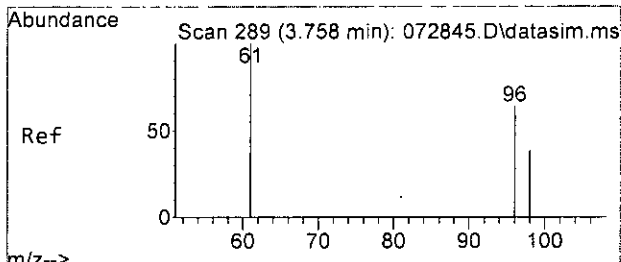


#17  
 trans-1,2-Dichloroethene  
 Concen: 1.565 ppb m  
 RT: 2.91 min Scan# 207  
 Delta R.T. -0.000 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

Tgt Ion	Resp	Lower	Upper
96	100		
61	159.0	135.6	195.6
98	61.3	30.8	90.8

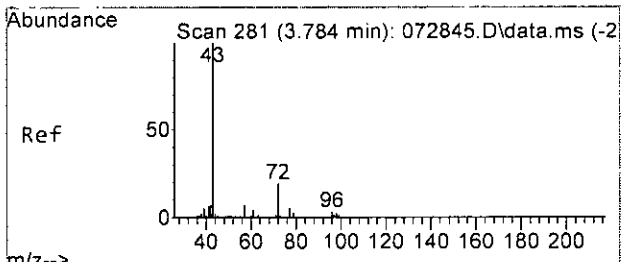
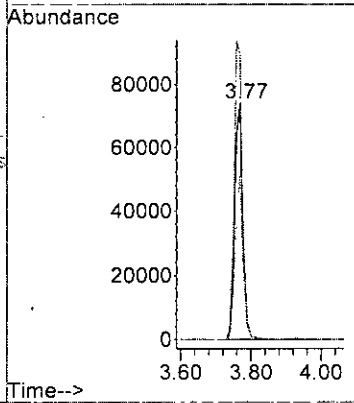
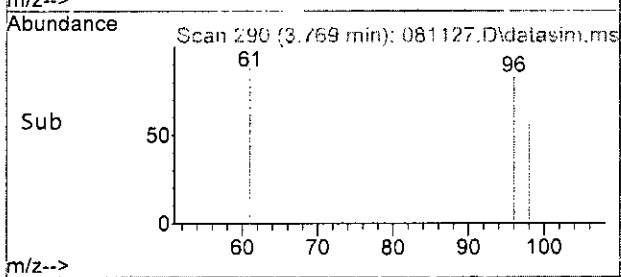
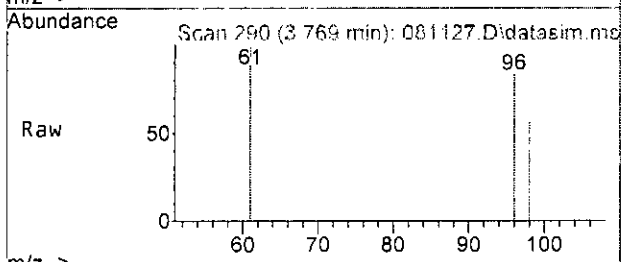






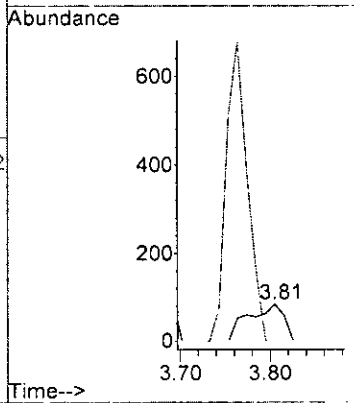
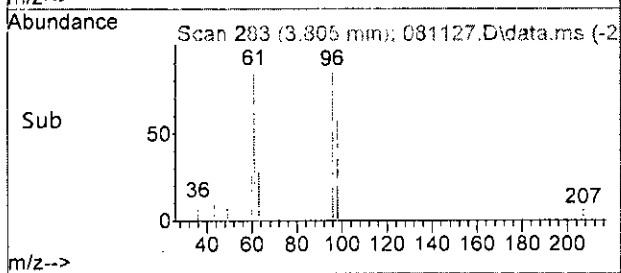
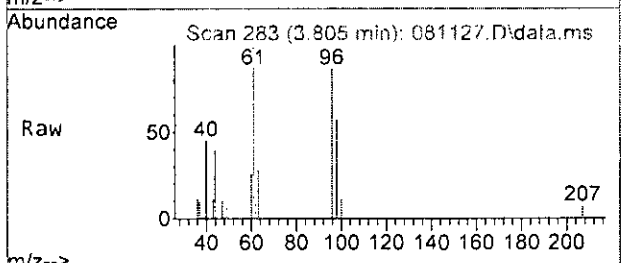
#22  
 cis-1,2-Dichloroethene  
 Concen: 47.113 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

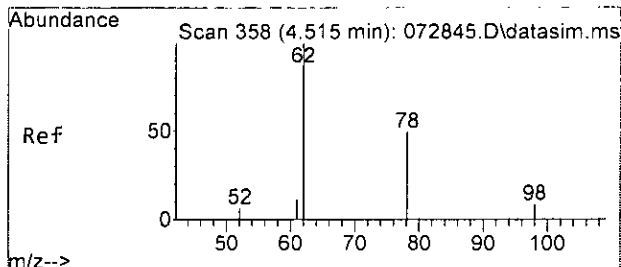
Tgt Ion	Resp	Lower	Upper
96	120395		
61	120.9	112.0	172.0
98	68.9	38.6	98.6



#24  
 2-Butanone (MEK)  
 Concen: 0.135 ppb  
 RT: 3.81 min Scan# 283  
 Delta R.T. 0.021 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

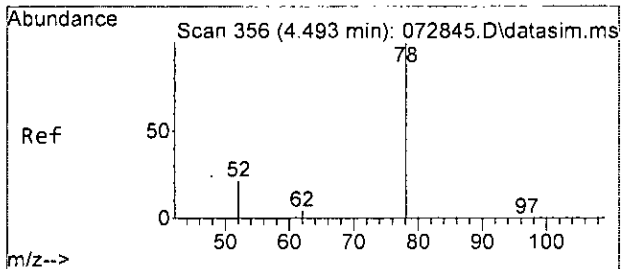
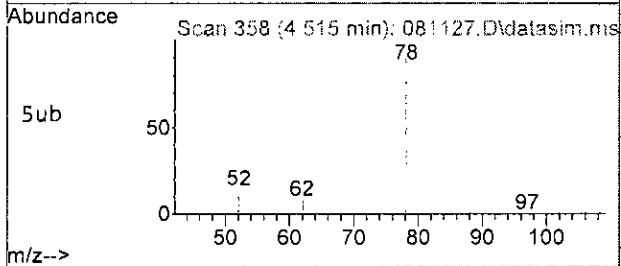
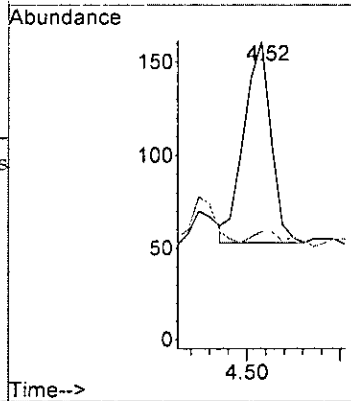
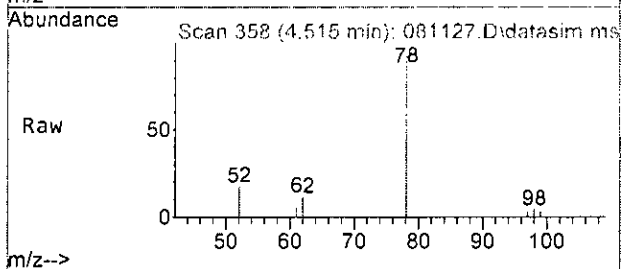
Tgt Ion	Resp	Lower	Upper
43	230		
72	0.0	0.0	47.3
57	0.0	0.0	27.2





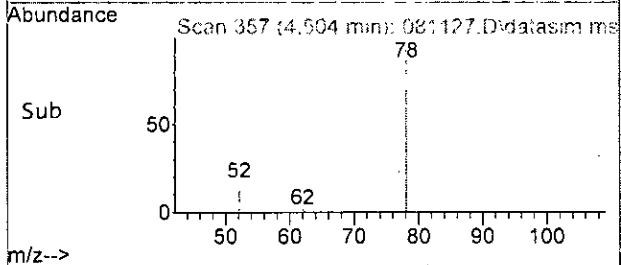
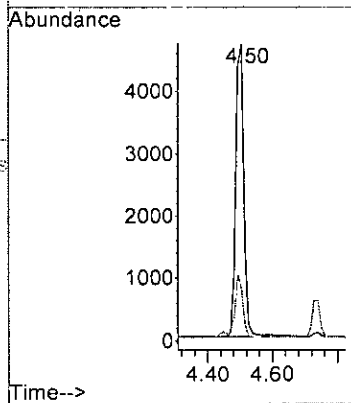
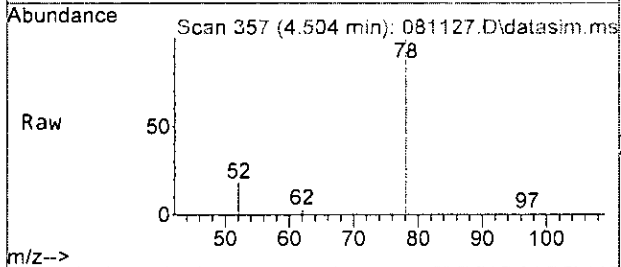
#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.031 ppb  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.000 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

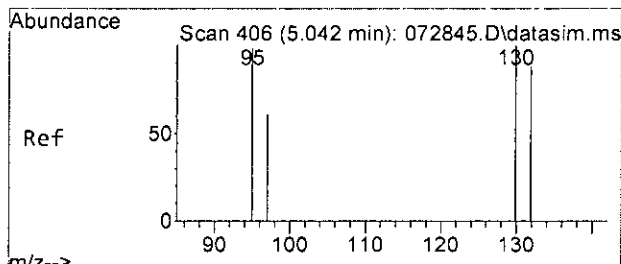
Tgt Ion: 62 Resp: 216  
 Ion Ratio Lower Upper  
 62 100  
 98 4.6 0.0 37.3



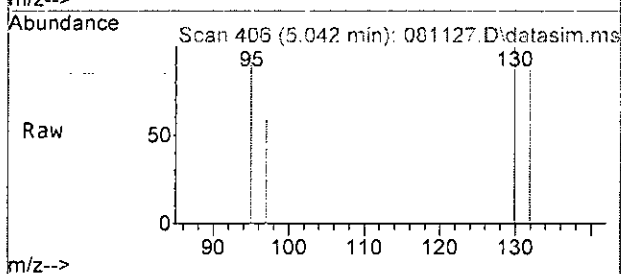
#31  
 Benzene  
 Concen: 0.928 ppb  
 RT: 4.50 min Scan# 357  
 Delta R.T. 0.011 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

Tgt Ion: 78 Resp: 8057  
 Ion Ratio Lower Upper  
 78 100  
 52 16.7 0.0 47.1



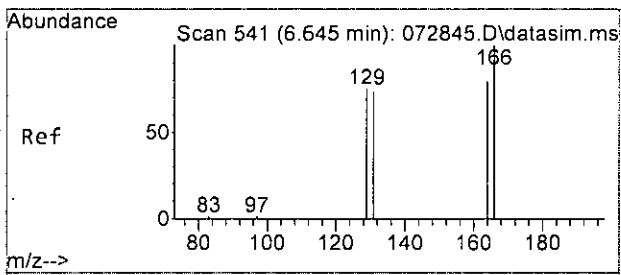
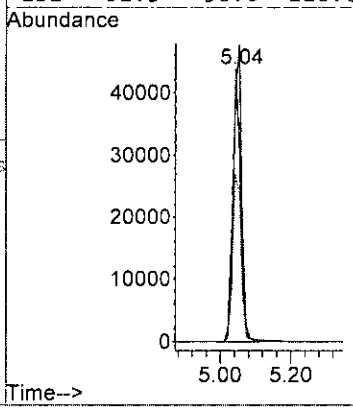
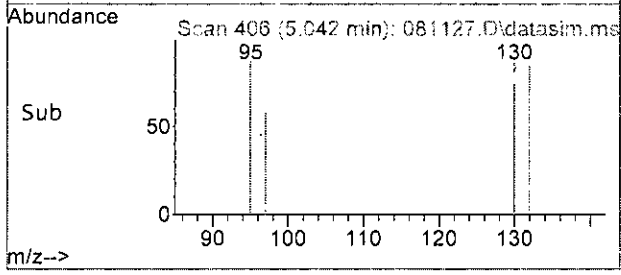


#32  
 Trichloroethene  
 Concen: 24.928 ppb  
 RT: 5.04 min Scan# 406  
 Delta R.T. 0.000 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

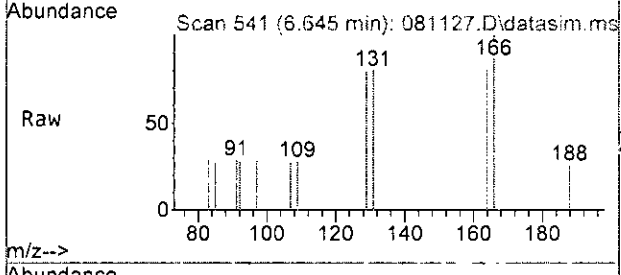


Tgt Ion: 95 Resp: 65658

Ion	Ratio	Lower	Upper
95	100		
97	61.5	30.8	90.8
130	104.3	68.6	128.6
132	91.3	56.6	116.6

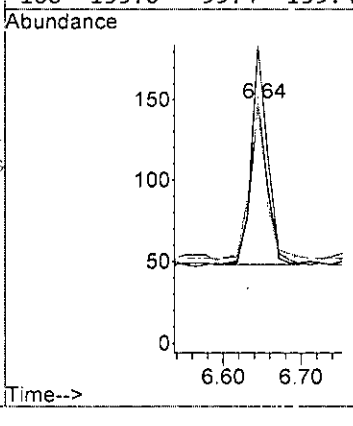
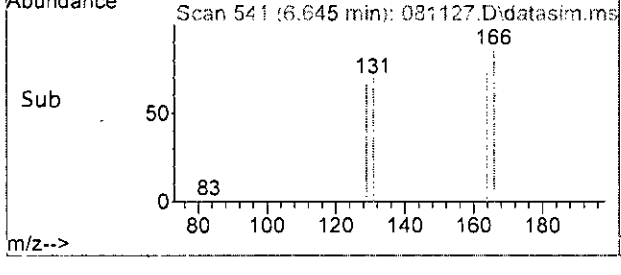


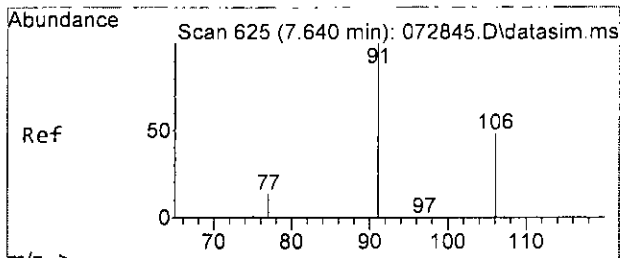
#45  
 Tetrachloroethene  
 Concen: 0.040 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm



Tgt Ion: 164 Resp: 148

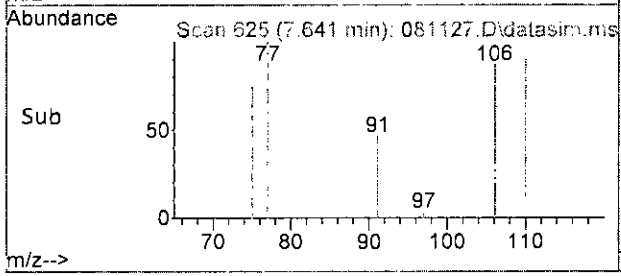
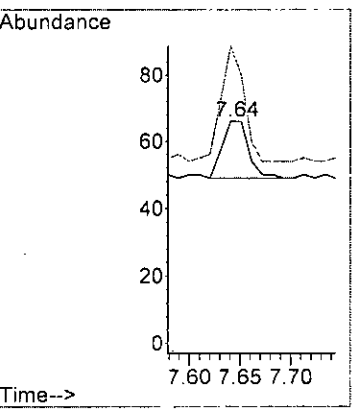
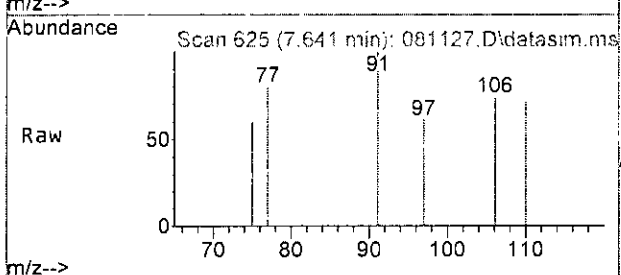
Ion	Ratio	Lower	Upper
164	100		
129	95.0	60.7	120.7
131	96.0	60.4	120.4
166	135.0	99.4	159.4





#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081127.D  
 Acq: 11 Aug 2023 03:59 pm

Tgt Ion: 106 Resp: 30  
 Ion Ratio Lower Upper  
 106 100  
 91 205.9 178.3 238.3



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081127.D  
 Acq On : 11 Aug 2023 03:59 pm  
 Operator : MD  
 Sample : 308175-07 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	88495	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	61953	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	31469	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	22302	9.288	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	92.90%		
30) 1,2-Dichloroethane-d4	4.45	102	5083	9.559	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	95.60%		
35) Toluene-d8	6.10	98	90008	9.154	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	91.50%		
57) 4-Bromofluorobenzene	8.50	95	26838	9.469	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.70%		
Target Compounds							
							Qvalue
2) Ethanol	2.33	45	31	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.26	50	1323	N.D.			
6] Vinyl chloride	1.32	62	14483	2.129	ppb	100	
7) Bromomethane	0.00		0	N.D. d			
8] Chloroethane	1.65	64	465	0.163	ppb #	1	
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.33	45	31	No Calib #			
11) Acetone	2.33	58	357	1.019	ppb #	82	
12] 1,1-Dichloroethene	2.27	96	858	0.349	ppb	83	
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	653	0.303	ppb	80	
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.91	96	3559m	1.565	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22] cis-1,2-Dichloroethene	3.77	96	120395	47.113	ppb	88	
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.81	43	230	0.135	ppb	66	
25) t-Amyl methyl ether (T...)	4.50	73	242	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	216	0.031	ppb	92	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	8057	0.928	ppb	99	
32] Trichloroethene	5.04	95	65658	24.928	ppb	96	
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081127.D  
 Acq On : 11 Aug 2023 03:59 pm  
 Operator : MD  
 Sample : 308175-07 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

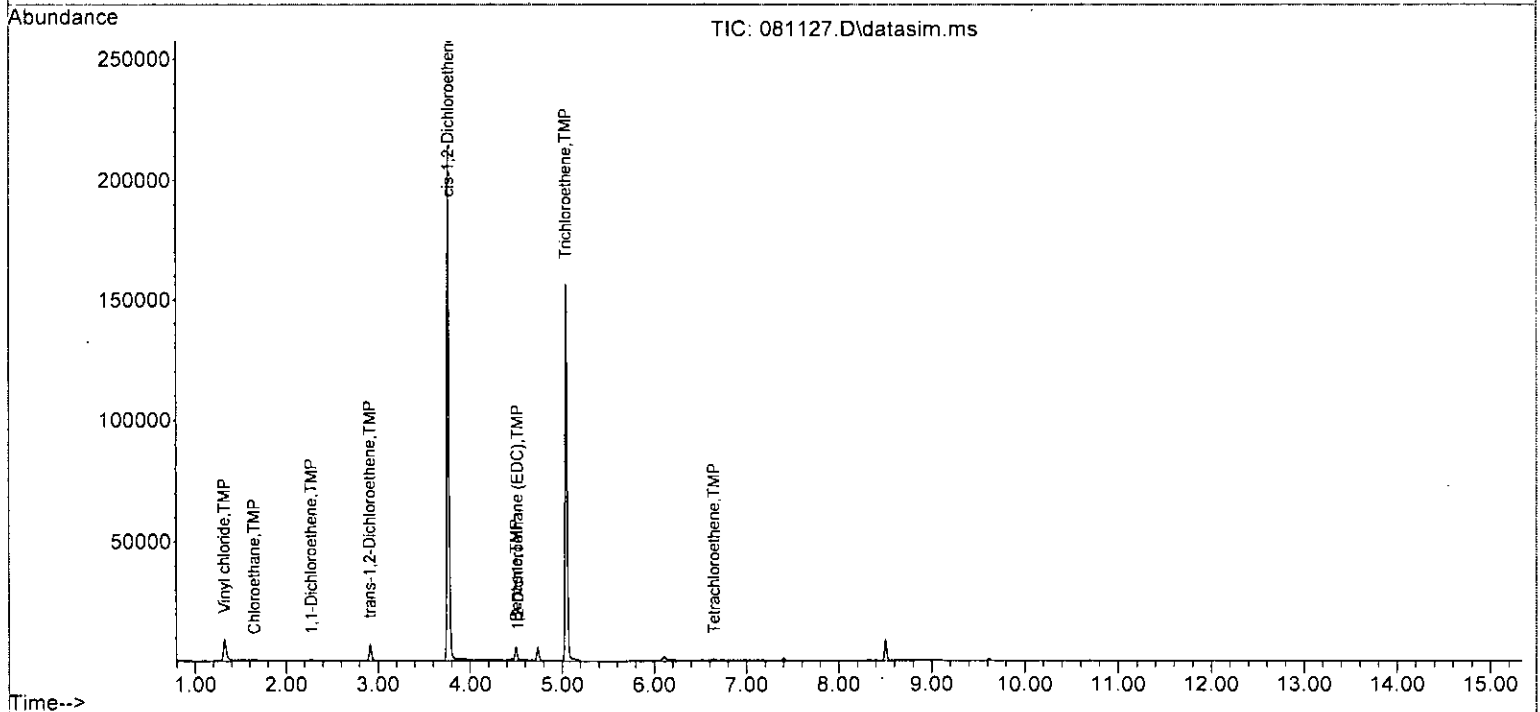
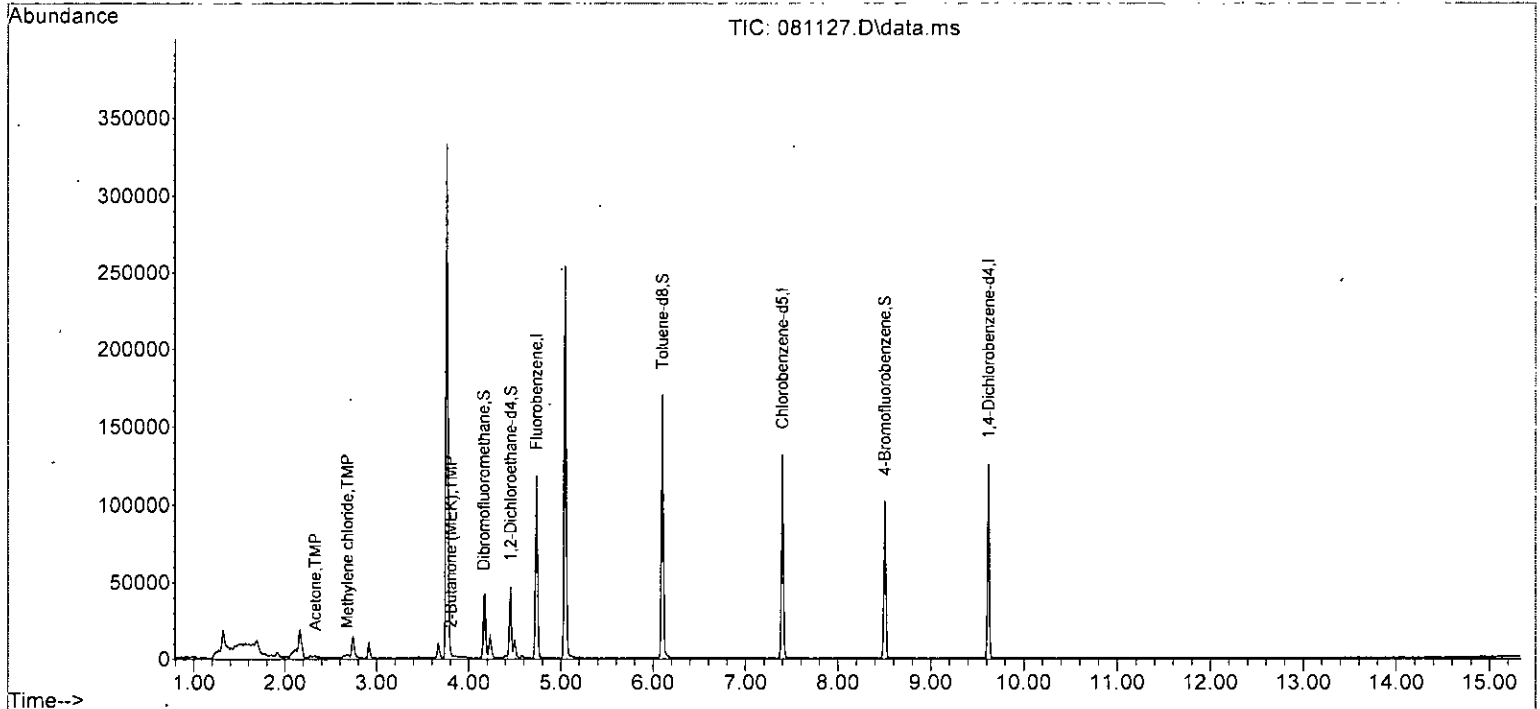
Quant Time: Aug 14 07:45:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40) Toluene	6.16	92	136	N.D.	
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.38	83	22	N.D.	
43) 2-Hexanone	6.85	43	248	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.64	164	148	0.040 ppb	95
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49) Ethylbenzene	7.54	91	137	N.D.	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.64	106	30	Below Cal	98
52) o-Xylene	0.00		0	N.D.	
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	0.00		0	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	0.00		0	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	
63) 2-Chlorotoluene	0.00		0	N.D.	
64) 4-Chlorotoluene	0.00		0	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	
67) sec-Butylbenzene	0.00		0	N.D.	
68) p-Isopropyltoluene	0.00		0	N.D.	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.82	128	26	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081127.D  
 Acq On : 11 Aug 2023 03:59 pm  
 Operator : MD  
 Sample : 308175-07 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:20 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081124.D  
 Acq On : 11 Aug 2023 02:49 pm  
 Operator : MD  
 Sample : 308175-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:08 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

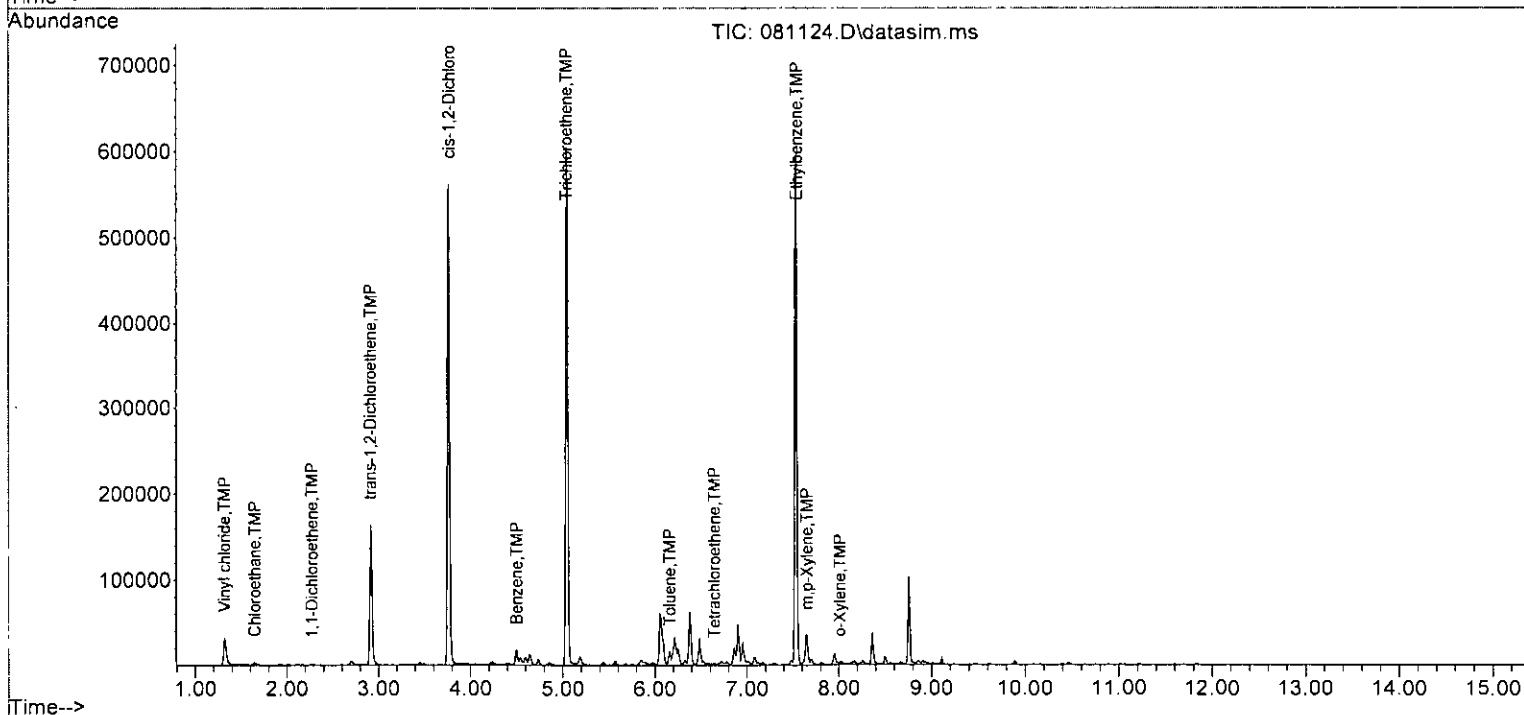
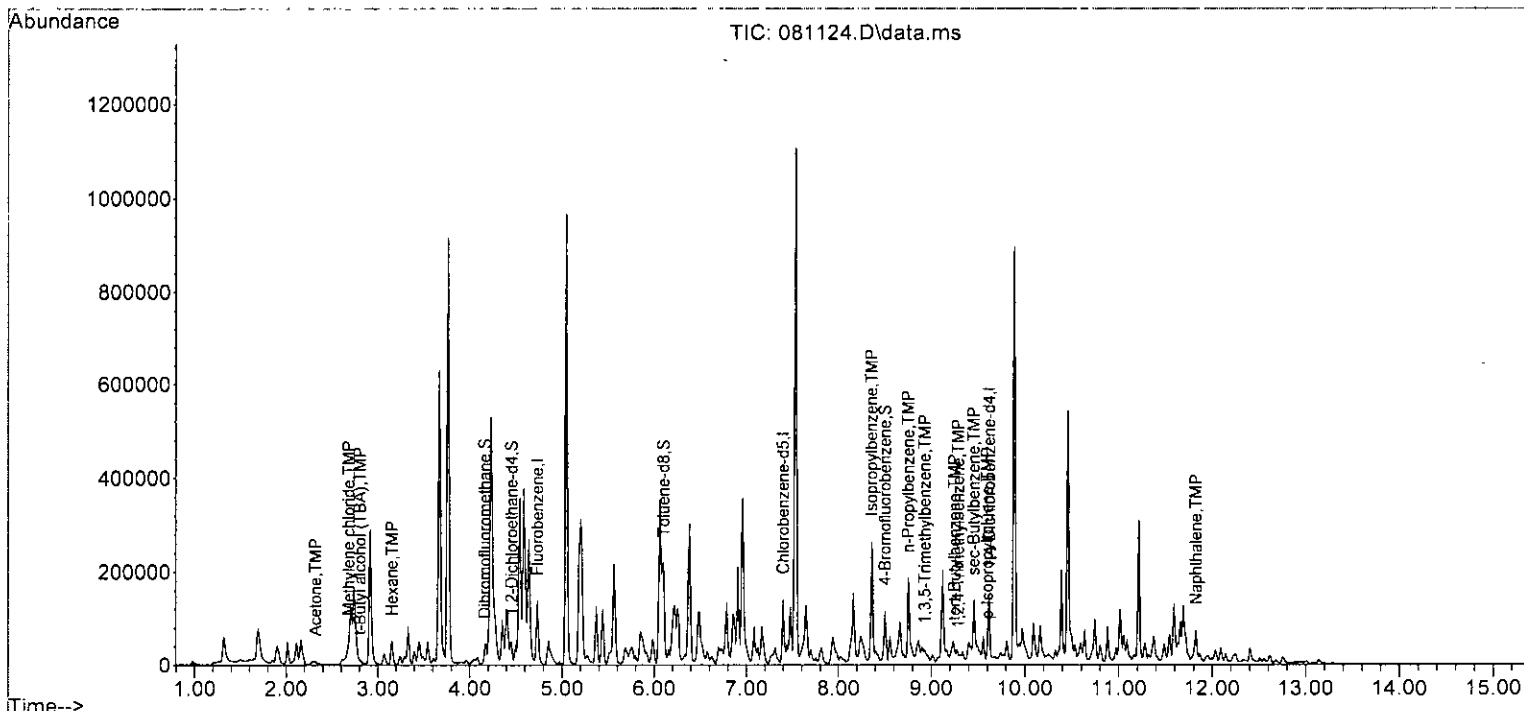
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	4.73	96	80447	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	65145	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	33492	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	22501	10.308	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.10%		
30) 1,2-Dichloroethane-d4	4.45	102	4858	10.050	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	100.50%		
35) Toluene-d8	6.10	98	103439	11.573	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	115.70%		
57) 4-Bromofluorobenzene	8.50	95	28631	9.491	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.90%		
Target Compounds							
							Qvalue
6] Vinyl chloride	1.32	62	49897	8.069	ppb		99
8] Chloroethane	1.65	64	4329	1.668	ppb		80
11) Acetone	2.32	58	918	2.883	ppb	#	1
12] 1,1-Dichloroethene	2.27	96	1496	0.678	ppb		90
13) Hexane	3.16	57	18742	5.916	ppb		97
14) Methylene chloride	2.68	84	1087	0.555	ppb	#	18
15) t-Butyl alcohol (TBA)	2.81	59	3276	12.528	ppb	#	41
17] trans-1,2-Dichloroethene	2.91	96	64535	31.521	ppb		94
22] cis-1,2-Dichloroethene	3.77	96	322625	138.880	ppb		87
31] Benzene	4.50	78	24375	3.113	ppb		97
32] Trichloroethene	5.04	95	247960	103.606	ppb		93
40] Toluene	6.16	92	8776	1.352	ppb		97
45] Tetrachloroethene	6.64	164	450	0.156	ppb		99
49] Ethylbenzene	7.54	91	651735	67.656	ppb		98
51] m,p-Xylene	7.65	106	14159	3.731	ppb	#	76
52] o-Xylene	8.01	106	612	0.155	ppb		95
54) Isopropylbenzene	8.36	105	156750	17.604	ppb		99
58) n-Propylbenzene	8.75	91	123353	11.075	ppb		97
60) 1,3,5-Trimethylbenzene	8.93	105	8679	1.121	ppb		97
65) tert-Butylbenzene	9.25	119	6783	0.959	ppb		90
66) 1,2,4-Trimethylbenzene	9.29	105	1416	0.173	ppb		84
67) sec-Butylbenzene	9.45	105	41092	3.947	ppb		100
68) p-Isopropyltoluene	9.60	119	6492	0.747	ppb		96
75) Naphthalene	11.82	128	34608	4.834	ppb		98

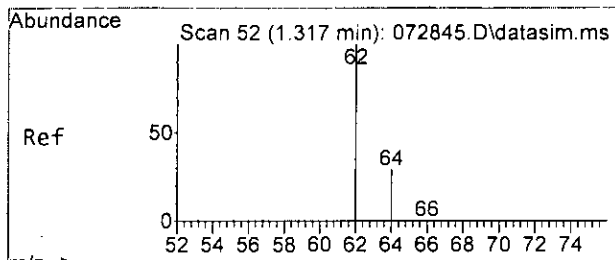
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081124.D  
 Acq On : 11 Aug 2023 02:49 pm  
 Operator : MD  
 Sample : 308175-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

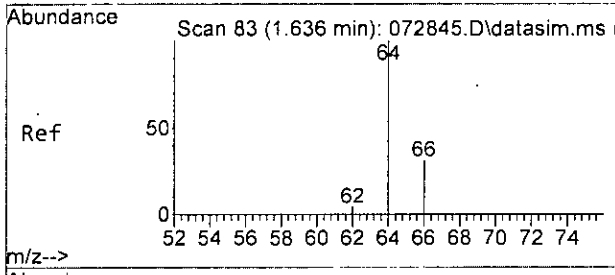
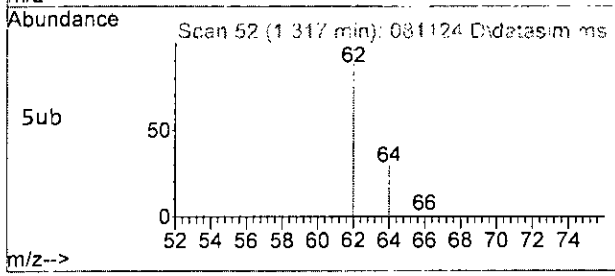
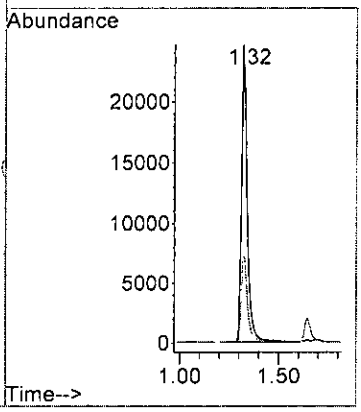
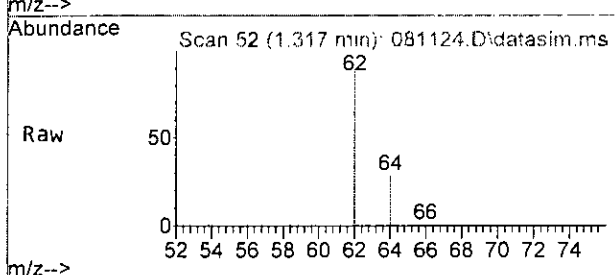
Quant Time: Aug 14 07:45:08 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





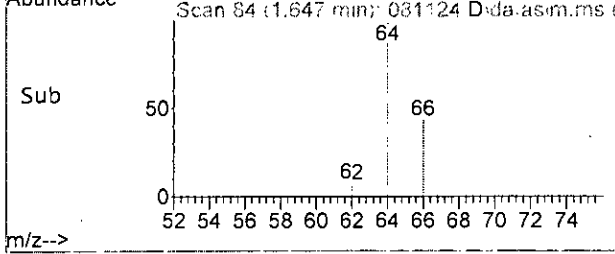
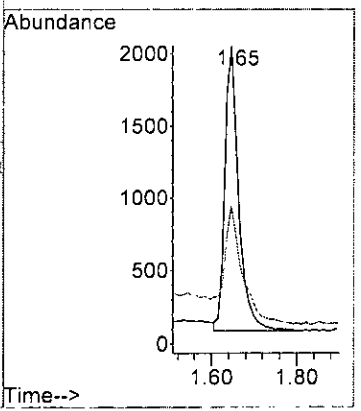
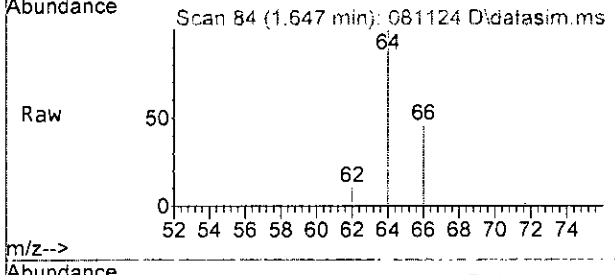
#6  
 Vinyl chloride  
 Concen: 8.069 ppb  
 RT: 1.32 min Scan# 52  
 Delta R.T. 0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

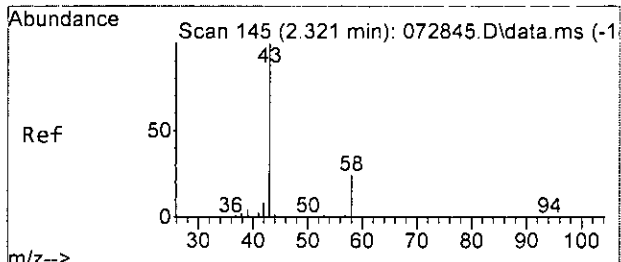
Tgt Ion: 62 Resp: 49897  
 Ion Ratio Lower Upper  
 62 100  
 64 29.2 0.0 58.9



#8  
 Chloroethane  
 Concen: 1.668 ppb  
 RT: 1.65 min Scan# 84  
 Delta R.T. 0.011 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

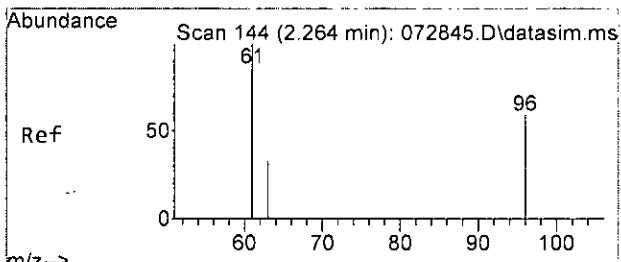
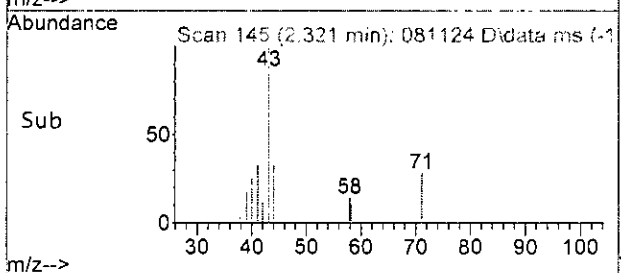
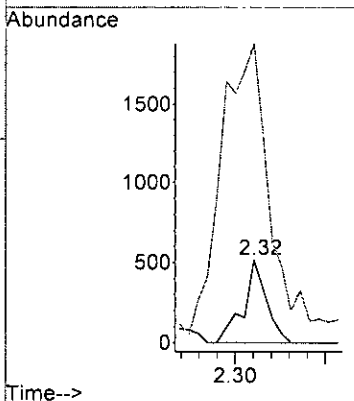
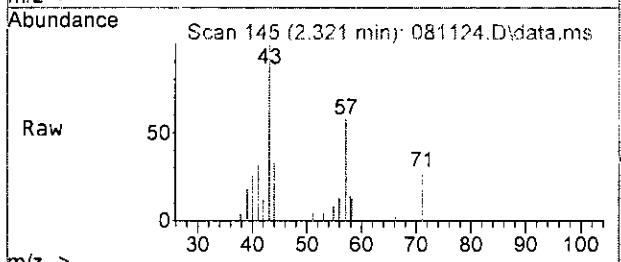
Tgt Ion: 64 Resp: 4329  
 Ion Ratio Lower Upper  
 64 100  
 66 40.7 0.0 59.8





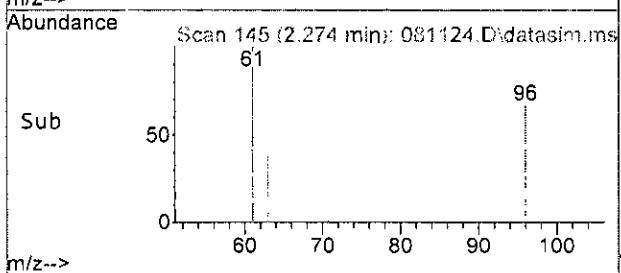
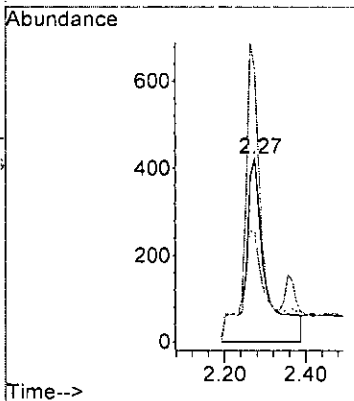
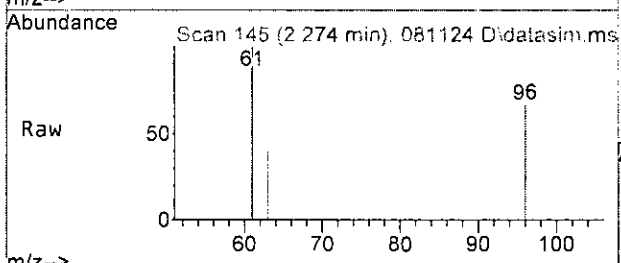
#11  
 Acetone  
 Concen: 2.883 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. -0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

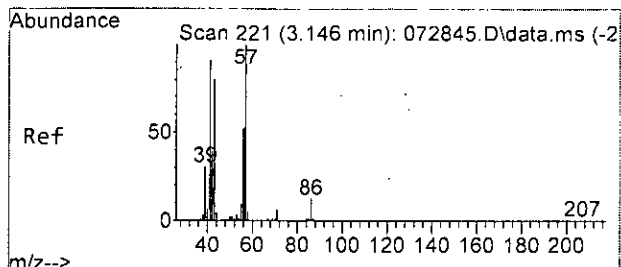
Tgt Ion: 58 Resp: 918  
 Ion Ratio Lower Upper  
 58 100  
 43 816.7 363.1 423.1#



#12  
 1,1-Dichloroethene  
 Concen: 0.678 ppb  
 RT: 2.27 min Scan# 145  
 Delta R.T. 0.010 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

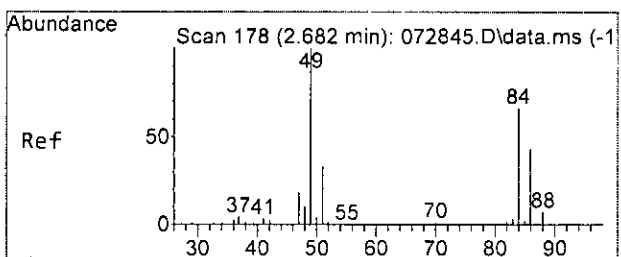
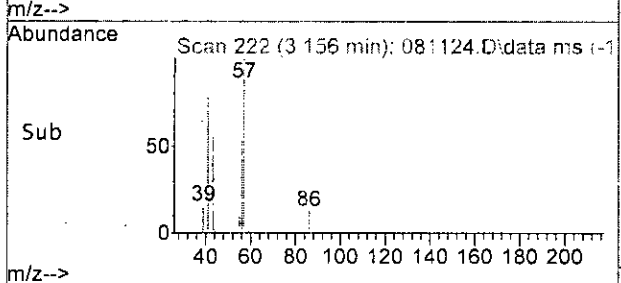
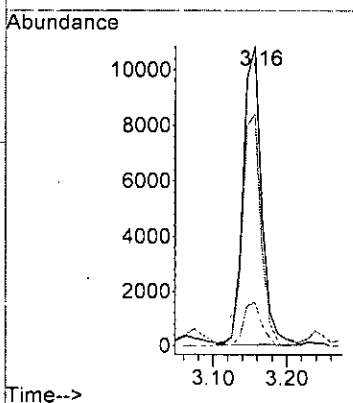
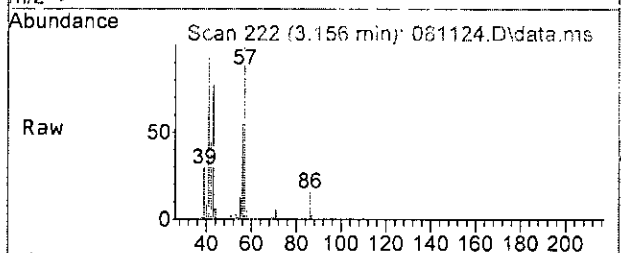
Tgt Ion: 96 Resp: 1496  
 Ion Ratio Lower Upper  
 96 100  
 61 148.5 132.9 192.9  
 63 59.3 24.9 84.9





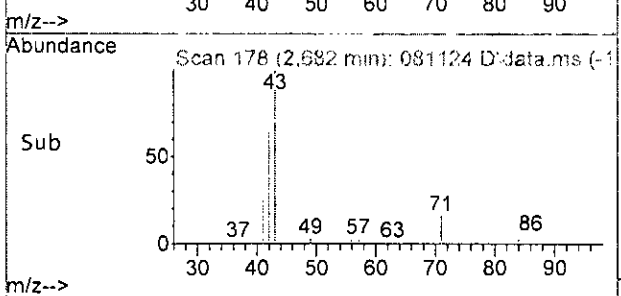
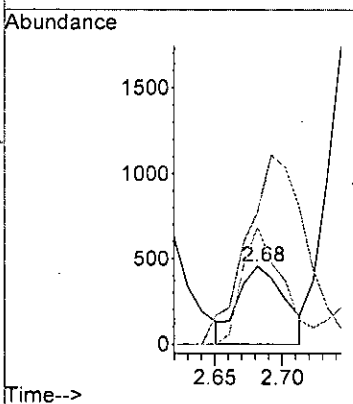
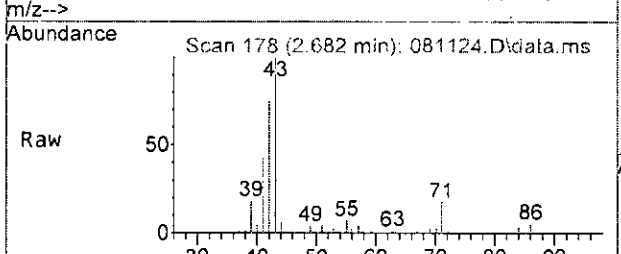
#13  
 Hexane  
 Concen: 5.916 ppb  
 RT: 3.16 min Scan# 222  
 Delta R.T. 0.010 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

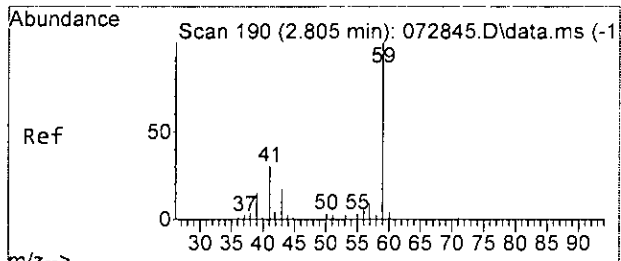
Tgt Ion	Resp	Lower	Upper
57	18742		
43	76.9	44.5	104.5
86	15.0	0.0	42.4



#14  
 Methylene chloride  
 Concen: 0.555 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

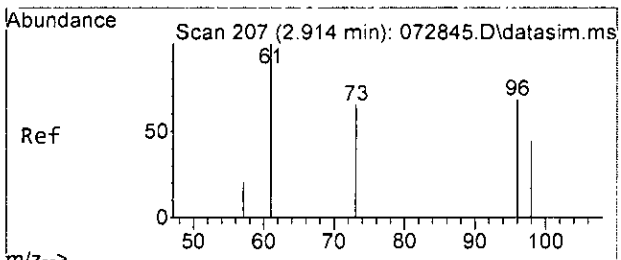
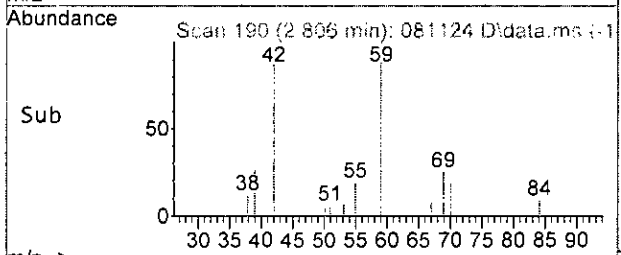
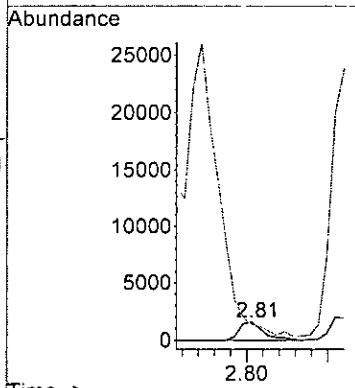
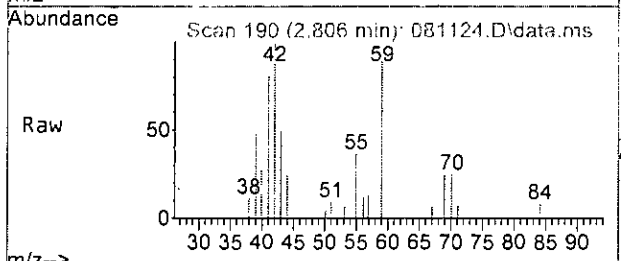
Tgt Ion	Resp	Lower	Upper
84	1087		
86	188.3	29.1	89.1#
49	212.6	122.1	182.1#





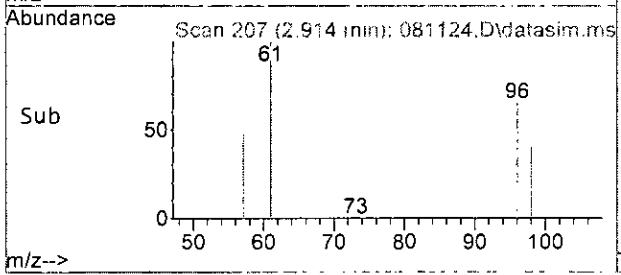
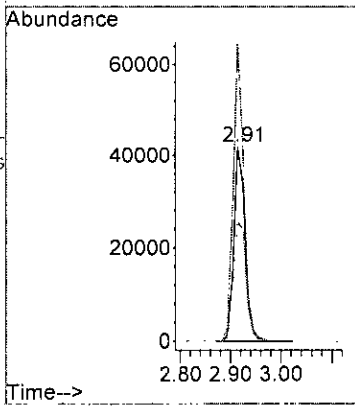
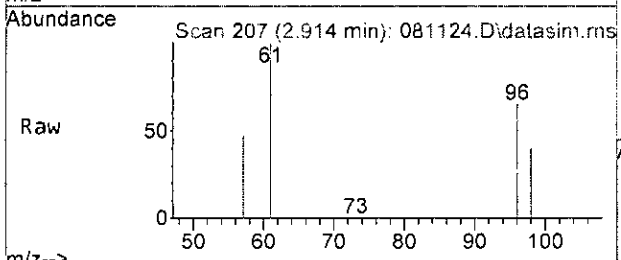
#15  
 t-Butyl alcohol (TBA)  
 Concen: 12.528 ppb  
 RT: 2.81 min Scan# 190  
 Delta R.T. 0.001 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

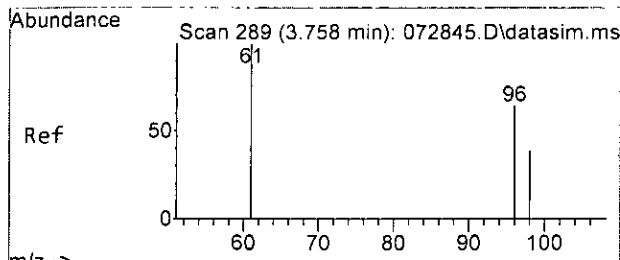
Tgt Ion: 59 Resp: 3276  
 Ion Ratio Lower Upper  
 59 100  
 41 61.2 0.0 59.6#



#17  
 trans-1,2-Dichloroethene  
 Concen: 31.521 ppb  
 RT: 2.91 min Scan# 207  
 Delta R.T. -0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

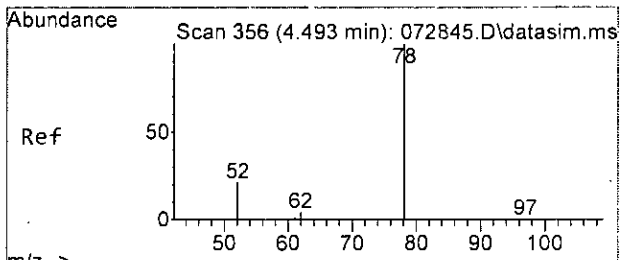
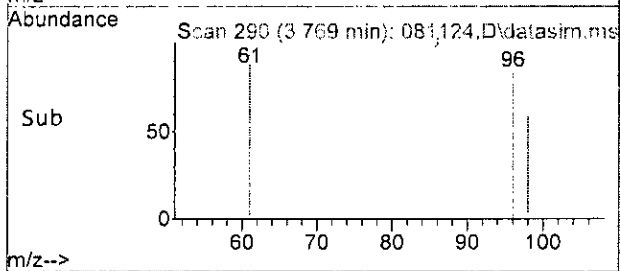
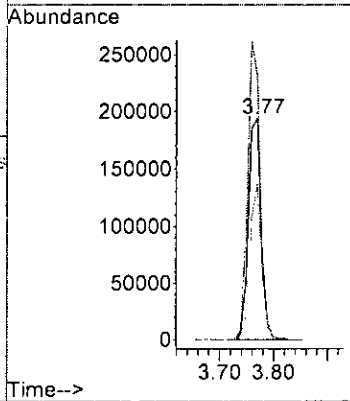
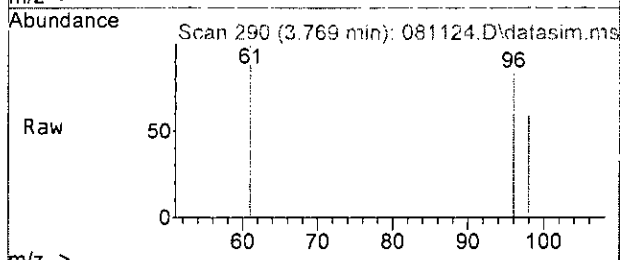
Tgt Ion: 96 Resp: 64535  
 Ion Ratio Lower Upper  
 96 100  
 61 154.2 135.6 195.6  
 98 61.6 30.8 90.8





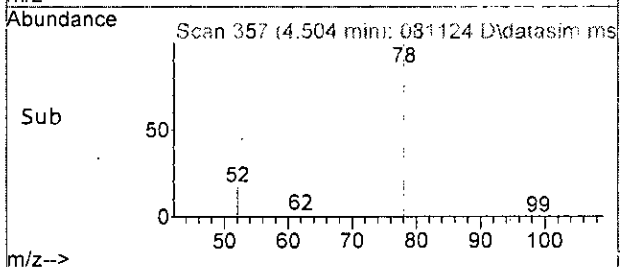
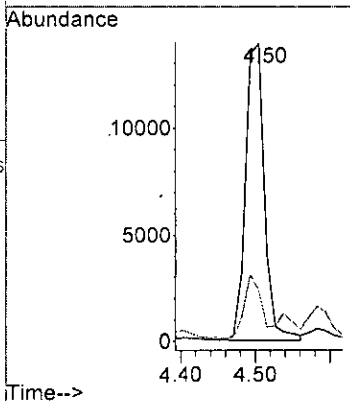
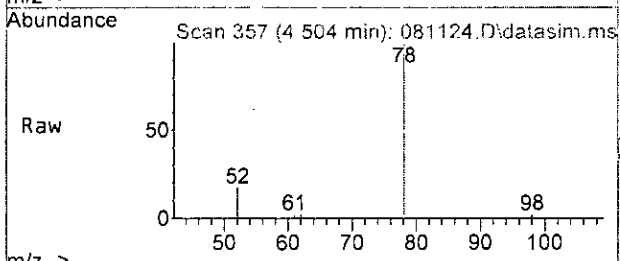
#22  
 cis-1,2-Dichloroethene  
 Concen: 138.880 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

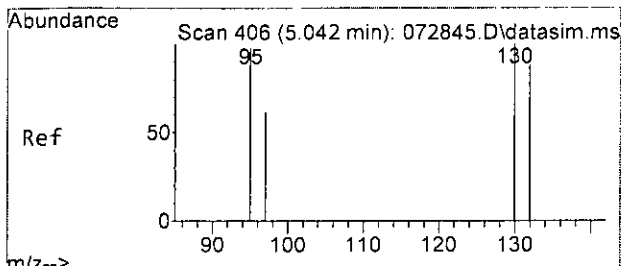
Tgt Ion: 96 Resp: 322625  
 Ion Ratio Lower Upper  
 96 100  
 61 119.0 112.0 172.0  
 98 70.4 38.6 98.6



#31  
 Benzene  
 Concen: 3.113 ppb  
 RT: 4.50 min Scan# 357  
 Delta R.T. 0.011 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

Tgt Ion: 78 Resp: 24375  
 Ion Ratio Lower Upper  
 78 100  
 52 16.0 0.0 47.1

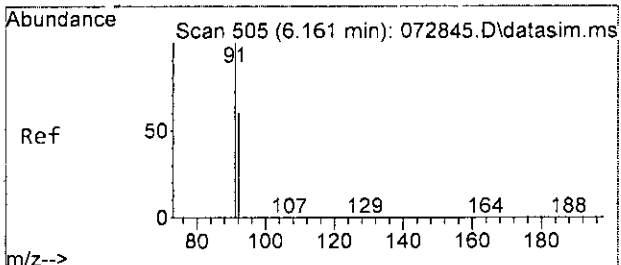
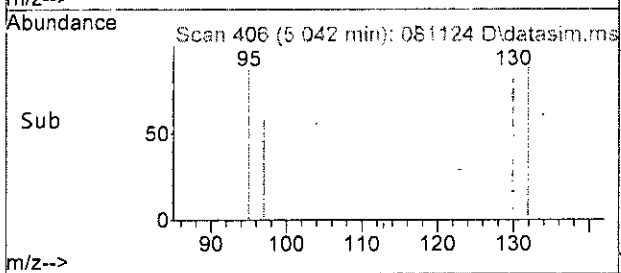
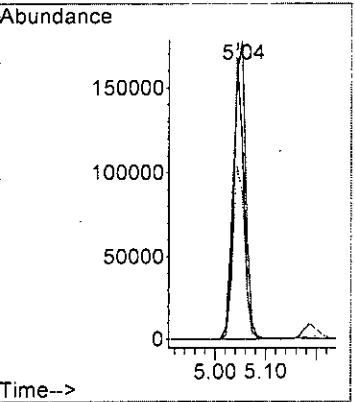
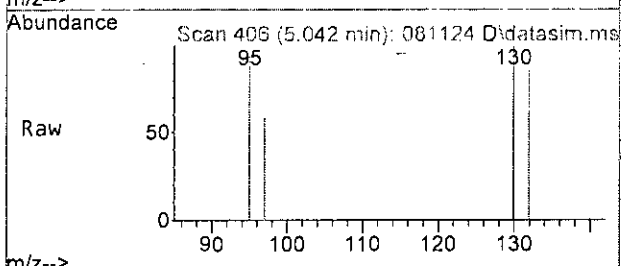




#32  
 Trichloroethene  
 Concen: 103.606 ppb  
 RT: 5.04 min Scan# 406  
 Delta R.T. 0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

Tgt Ion: 95 Resp: 247960

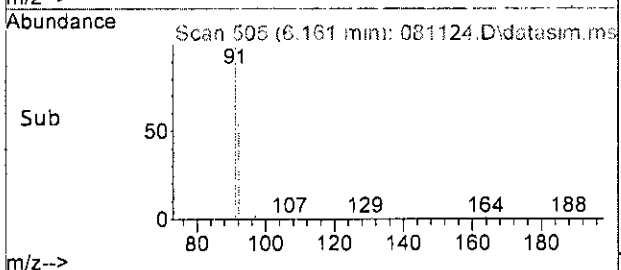
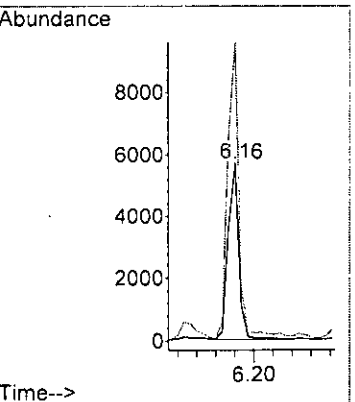
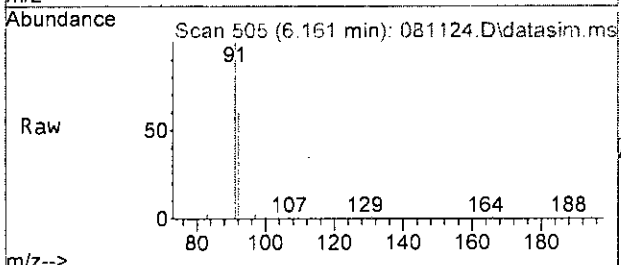
Ion	Ratio	Lower	Upper
95	100		
97	62.4	30.8	90.8
130	106.2	68.6	128.6
132	94.6	56.6	116.6

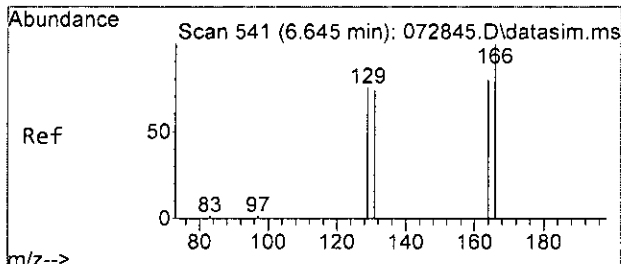


#40  
 Toluene  
 Concen: 1.352 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

Tgt Ion: 92 Resp: 8776

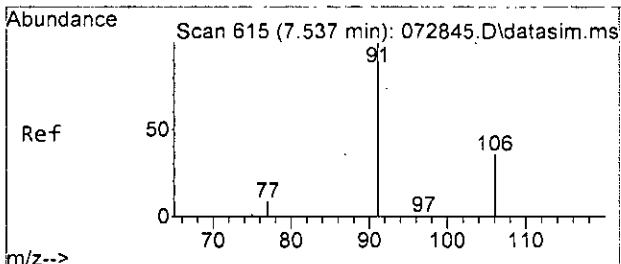
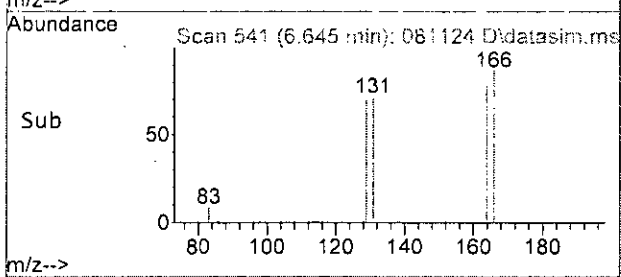
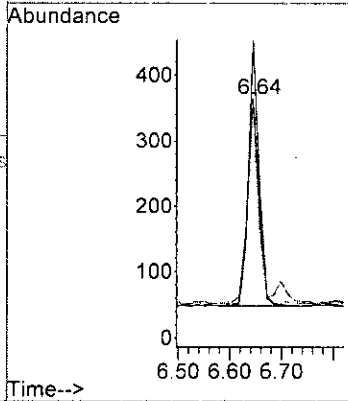
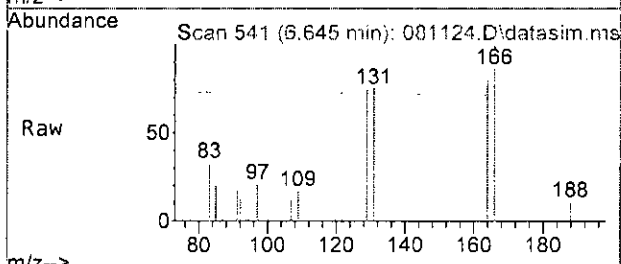
Ion	Ratio	Lower	Upper
92	100		
91	166.8	133.3	193.3





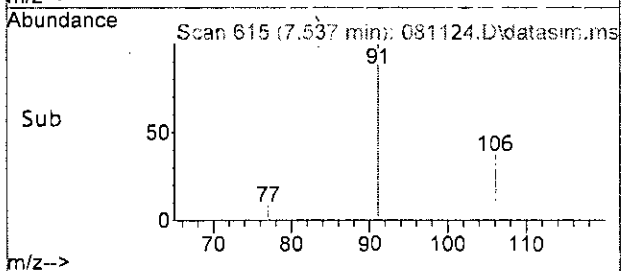
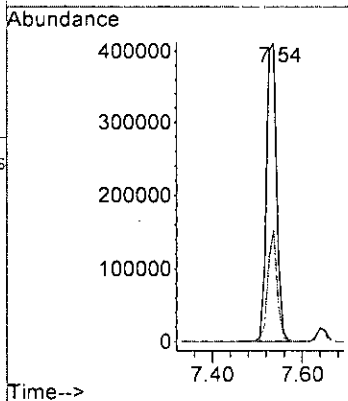
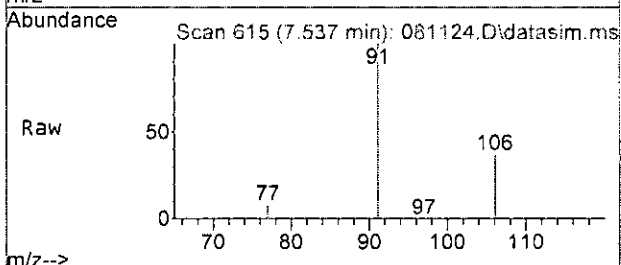
#45  
 Tetrachloroethene  
 Concen: 0.156 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

Tgt Ion	Resp	Lower	Upper
164	100		
129	88.9	60.7	120.7
131	91.1	60.4	120.4
166	128.2	99.4	159.4

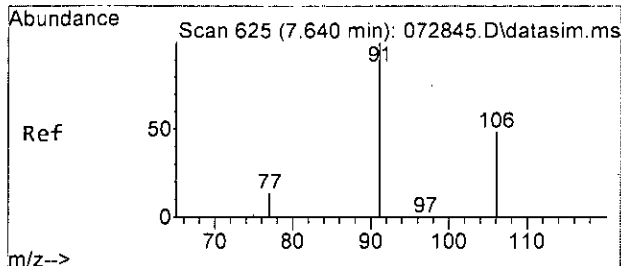


#49  
 Ethylbenzene  
 Concen: 67.656 ppb  
 RT: 7.54 min Scan# 615  
 Delta R.T. 0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

Tgt Ion	Resp	Lower	Upper
91	100		
106	36.8	5.4	65.4

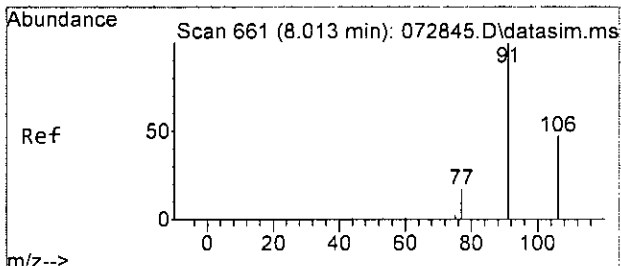
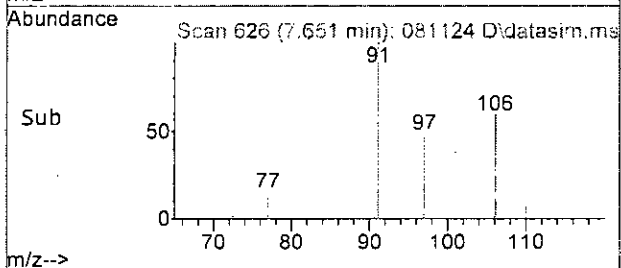
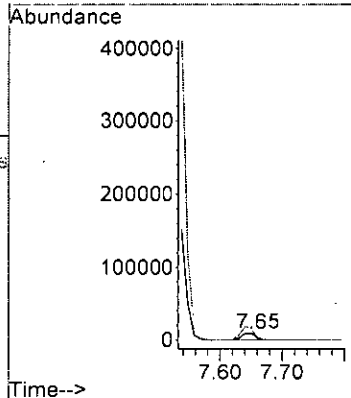
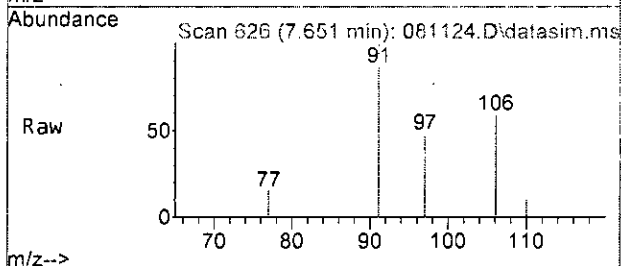






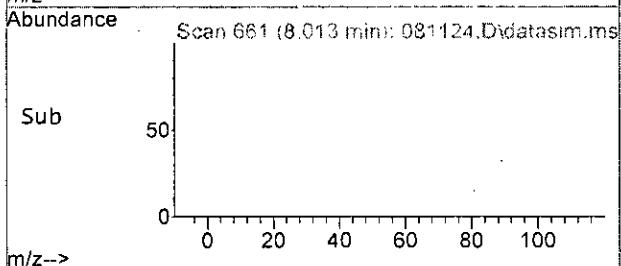
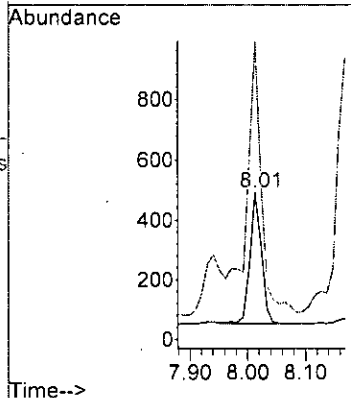
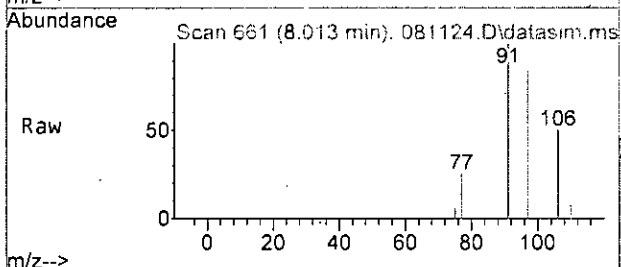
#51  
 m,p-Xylene  
 Concen: 3.731 ppb  
 RT: 7.65 min Scan# 626  
 Delta R.T. 0.011 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

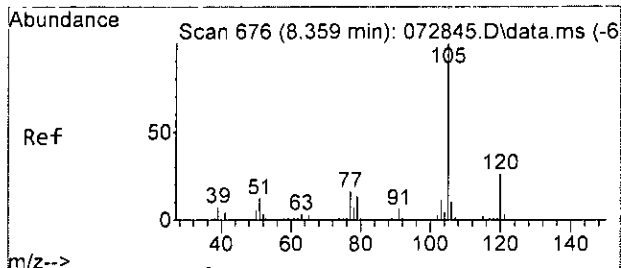
Tgt Ion:106 Resp: 14159  
 Ion Ratio Lower Upper  
 106 100  
 91 170.5 178.3 238.3#



#52  
 o-Xylene  
 Concen: 0.155 ppb  
 RT: 8.01 min Scan# 661  
 Delta R.T. -0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

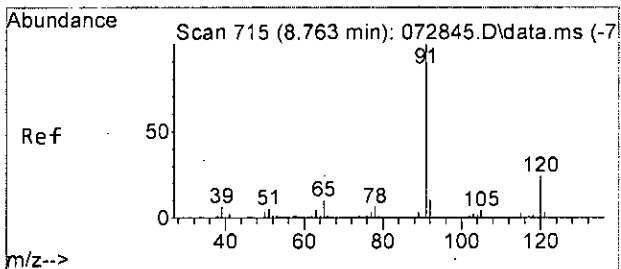
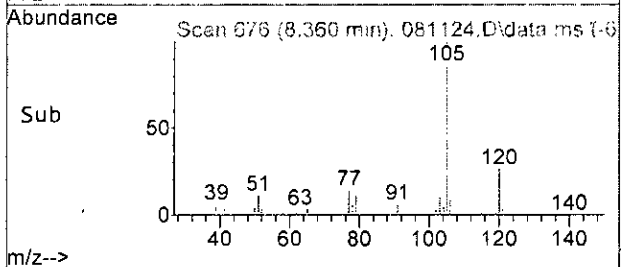
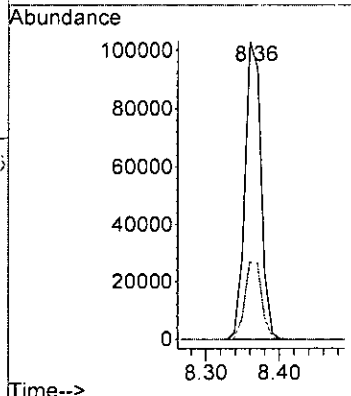
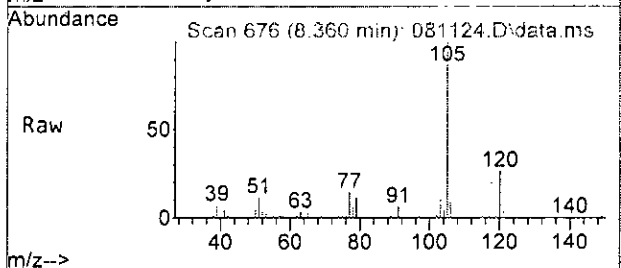
Tgt Ion:106 Resp: 612  
 Ion Ratio Lower Upper  
 106 100  
 91 203.6 181.1 241.1





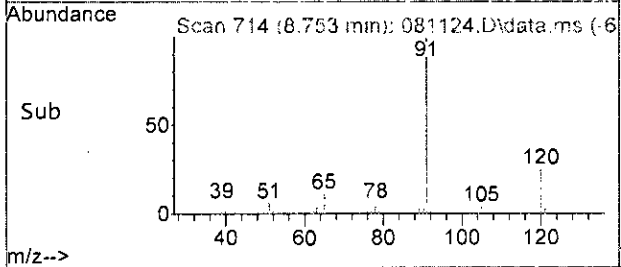
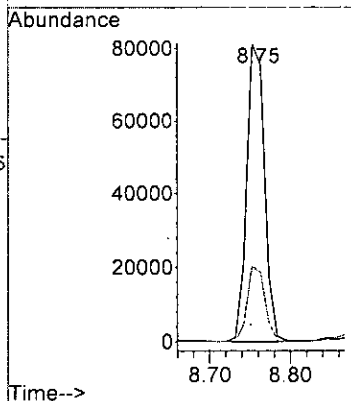
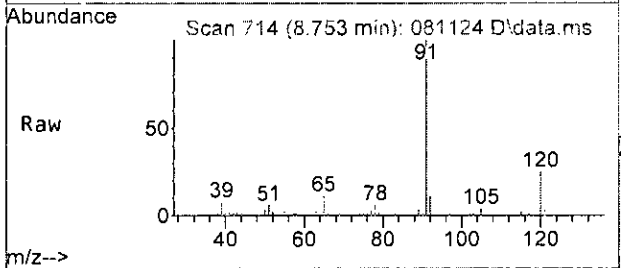
#54  
 Isopropylbenzene  
 Concen: 17.604 ppb  
 RT: 8.36 min Scan# 676  
 Delta R.T. 0.001 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

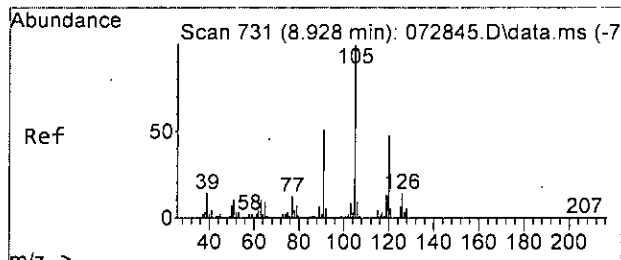
Tgt Ion: 105 Resp: 156750  
 Ion Ratio Lower Upper  
 105 100  
 120 26.0 0.0 56.3



#58  
 n-Propylbenzene  
 Concen: 11.075 ppb  
 RT: 8.75 min Scan# 714  
 Delta R.T. -0.010 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

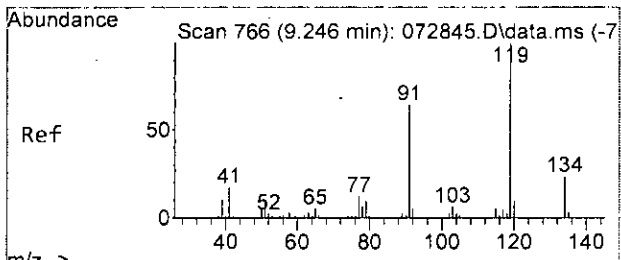
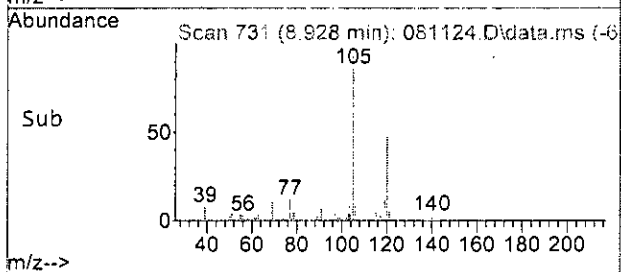
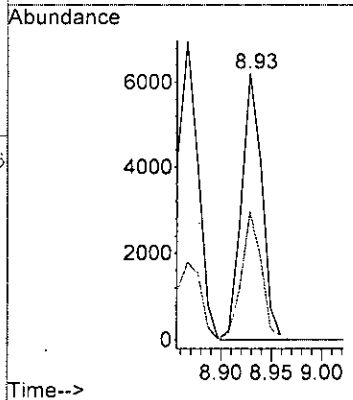
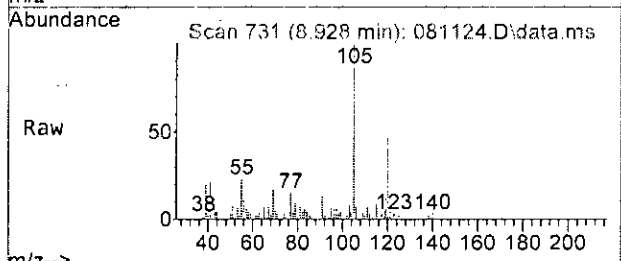
Tgt Ion: 91 Resp: 123353  
 Ion Ratio Lower Upper  
 91 100  
 120 24.9 0.0 53.6





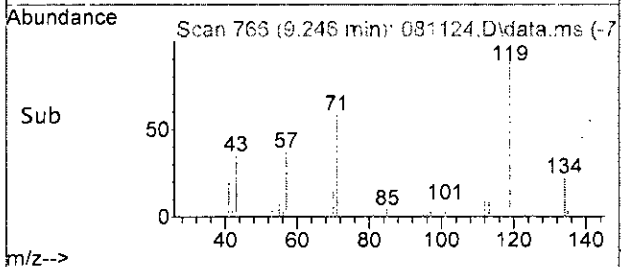
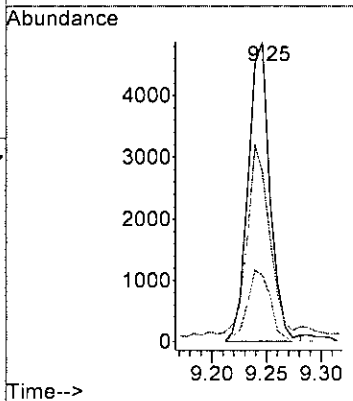
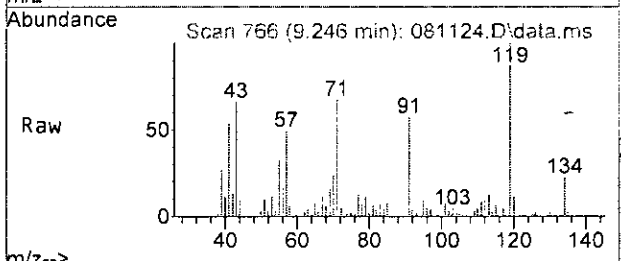
#60  
 1,3,5-Trimethylbenzene  
 Concen: 1.121 ppb  
 RT: 8.93 min Scan# 731  
 Delta R.T. 0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

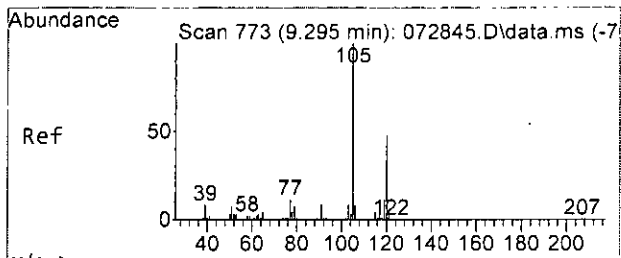
Tgt Ion: 105 Resp: 8679  
 Ion Ratio Lower Upper  
 105 100  
 120 47.3 19.6 79.6



#65  
 tert-Butylbenzene  
 Concen: 0.959 ppb  
 RT: 9.25 min Scan# 766  
 Delta R.T. 0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

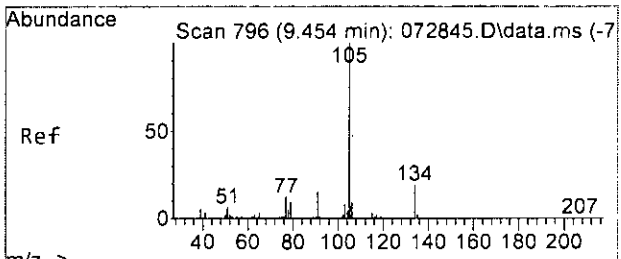
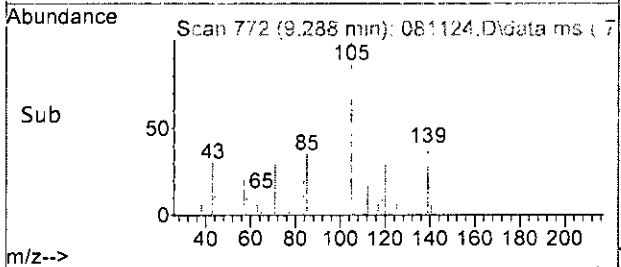
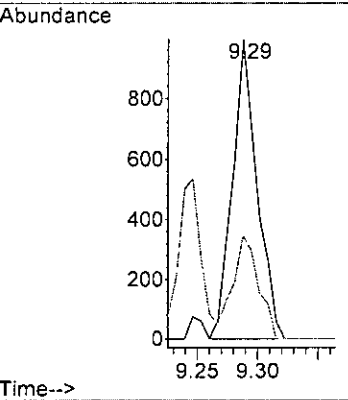
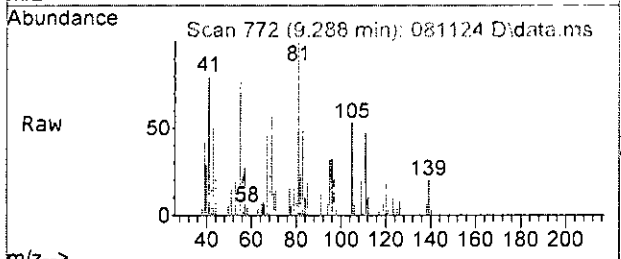
Tgt Ion: 119 Resp: 6783  
 Ion Ratio Lower Upper  
 119 100  
 91 54.3 34.2 94.2  
 134 22.4 0.0 53.6





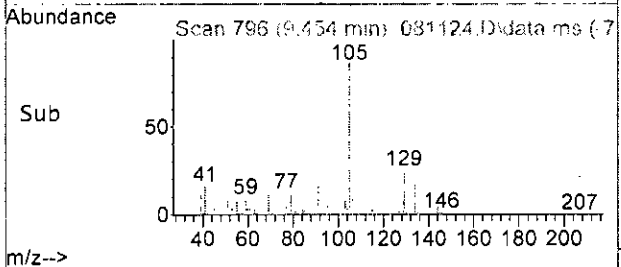
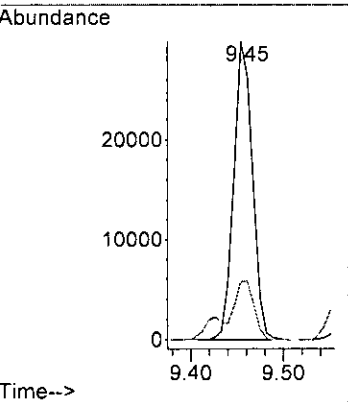
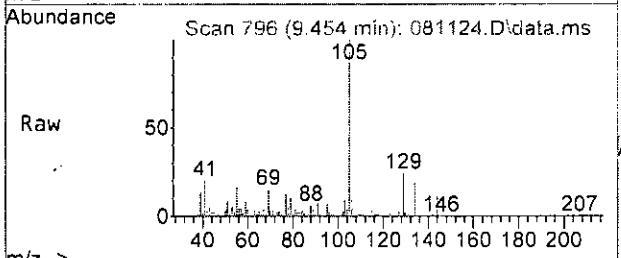
#66  
 1,2,4-Trimethylbenzene  
 Concen: 0.173 ppb  
 RT: 9.29 min Scan# 772  
 Delta R.T. -0.007 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

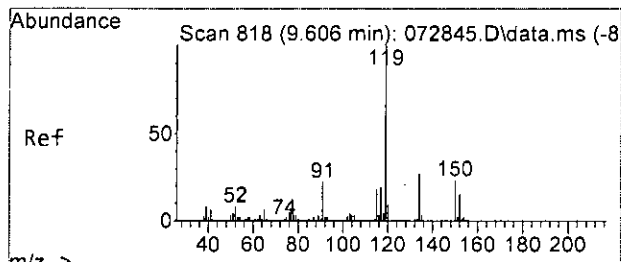
Tgt Ion:105 Resp: 1416  
 Ion Ratio Lower Upper  
 105 100  
 120 34.6 15.2 75.2



#67  
 sec-Butylbenzene  
 Concen: 3.947 ppb  
 RT: 9.45 min Scan# 796  
 Delta R.T. 0.000 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

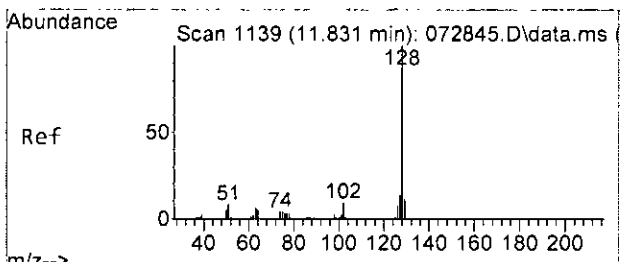
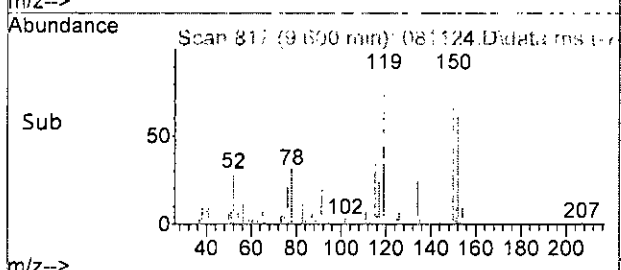
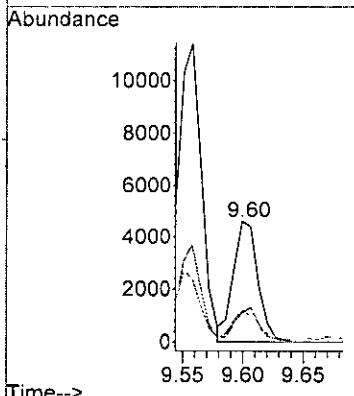
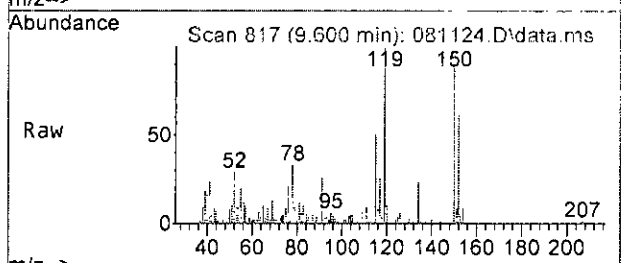
Tgt Ion:105 Resp: 41092  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 0.0 49.0





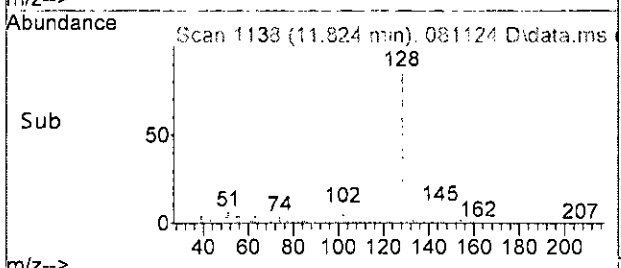
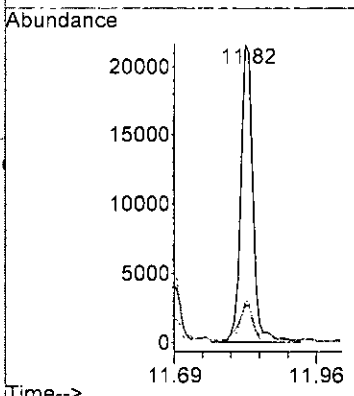
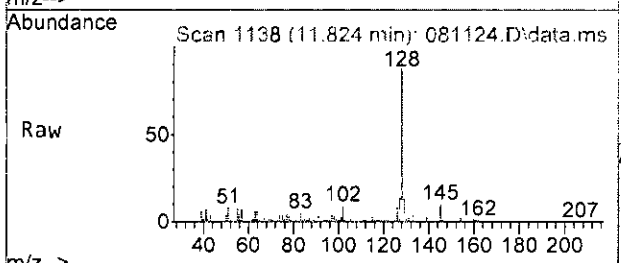
#68  
 p-Isopropyltoluene.  
 Concen: 0.747 ppb  
 RT: 9.60 min Scan# 817  
 Delta R.T. -0.006 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

Tgt Ion	Resp	Lower	Upper
119	6492		
119	100		
134	24.3	0.0	57.5
91	23.0	0.0	53.3



#75  
 Naphthalene  
 Concen: 4.834 ppb  
 RT: 11.82 min Scan# 1138  
 Delta R.T. -0.007 min  
 Lab File: 081124.D  
 Acq: 11 Aug 2023 02:49 pm

Tgt Ion	Resp	Lower	Upper
128	34608		
128	100		
129	11.8	0.0	40.8
127	13.4	0.0	43.7



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081124.D  
 Acq On : 11 Aug 2023 02:49 pm  
 Operator : MD  
 Sample : 308175-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:08 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	80447	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	65145	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	33492	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	22501	10.308	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.10%		
30) 1,2-Dichloroethane-d4	4.45	102	4858	10.050	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	100.50%		
35) Toluene-d8	6.10	98	103439	11.573	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	115.70%		
57) 4-Bromofluorobenzene	8.50	95	28631	9.491	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	94.90%		
Target Compounds							
							Qvalue
2) Ethanol	2.36	45	398	No Calib	#		
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	1263	N.D.			
6] Vinyl chloride	1.32	62	49897	8.069	ppb	99	
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.65	64	4329	1.668	ppb	80	
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.36	45	398	No Calib	#		
11) Acetone	2.32	58	918	2.883	ppb	#	1
12] 1,1-Dichloroethene	2.27	96	1496	0.678	ppb		90
13) Hexane	3.16	57	18742	5.916	ppb		97
14) Methylene chloride	2.68	84	1087	0.555	ppb	#	18
15) t-Butyl alcohol (TBA)	2.81	59	3276	12.528	ppb	#	41
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.91	96	64535	31.521	ppb		94
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.	d		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.77	96	322625	138.880	ppb		87
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	24375	3.113	ppb		97
32] Trichloroethene	5.04	95	247960	103.606	ppb		93
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	5.49	83	244	N.D.			
36) Dibromomethane	5.25	93	38	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081124.D  
 Acq On : 11 Aug 2023 02:49 pm  
 Operator : MD  
 Sample : 308175-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

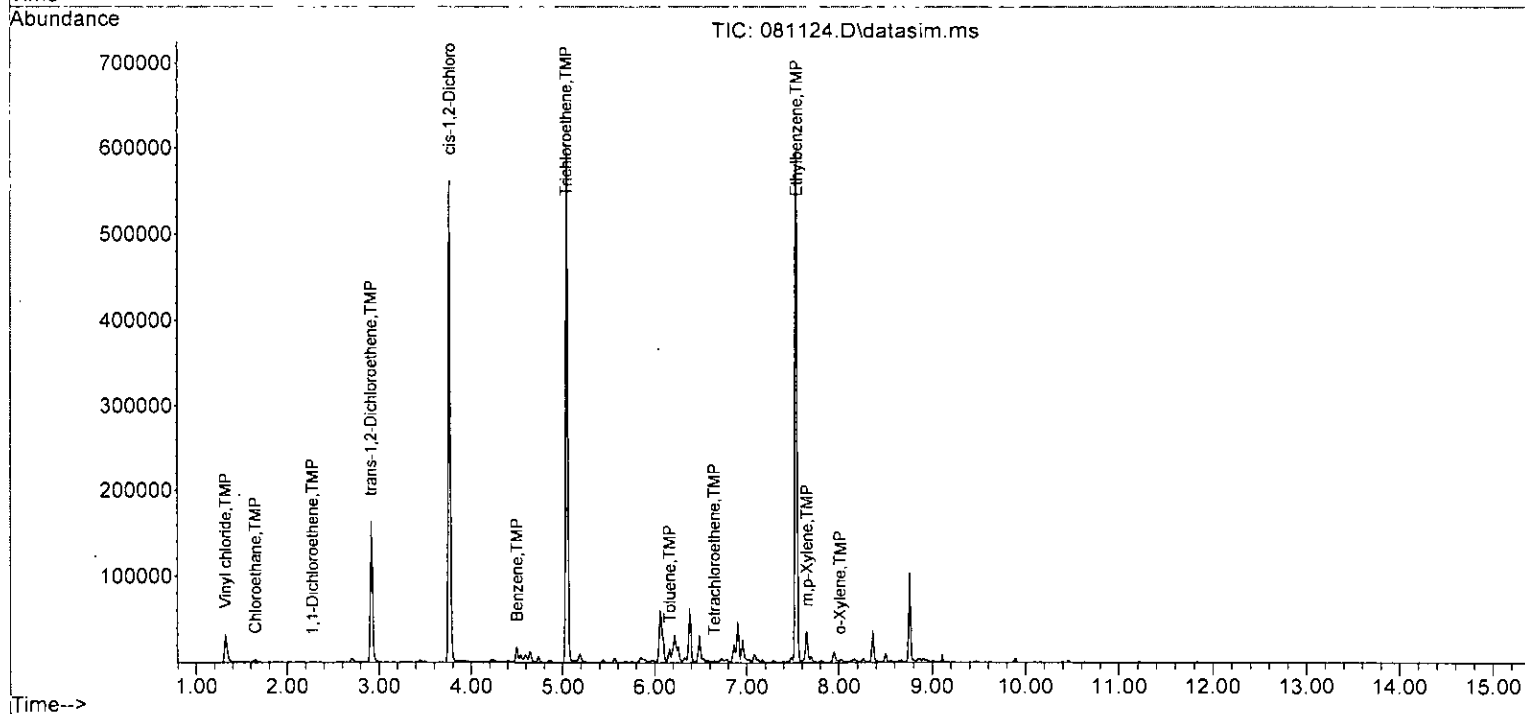
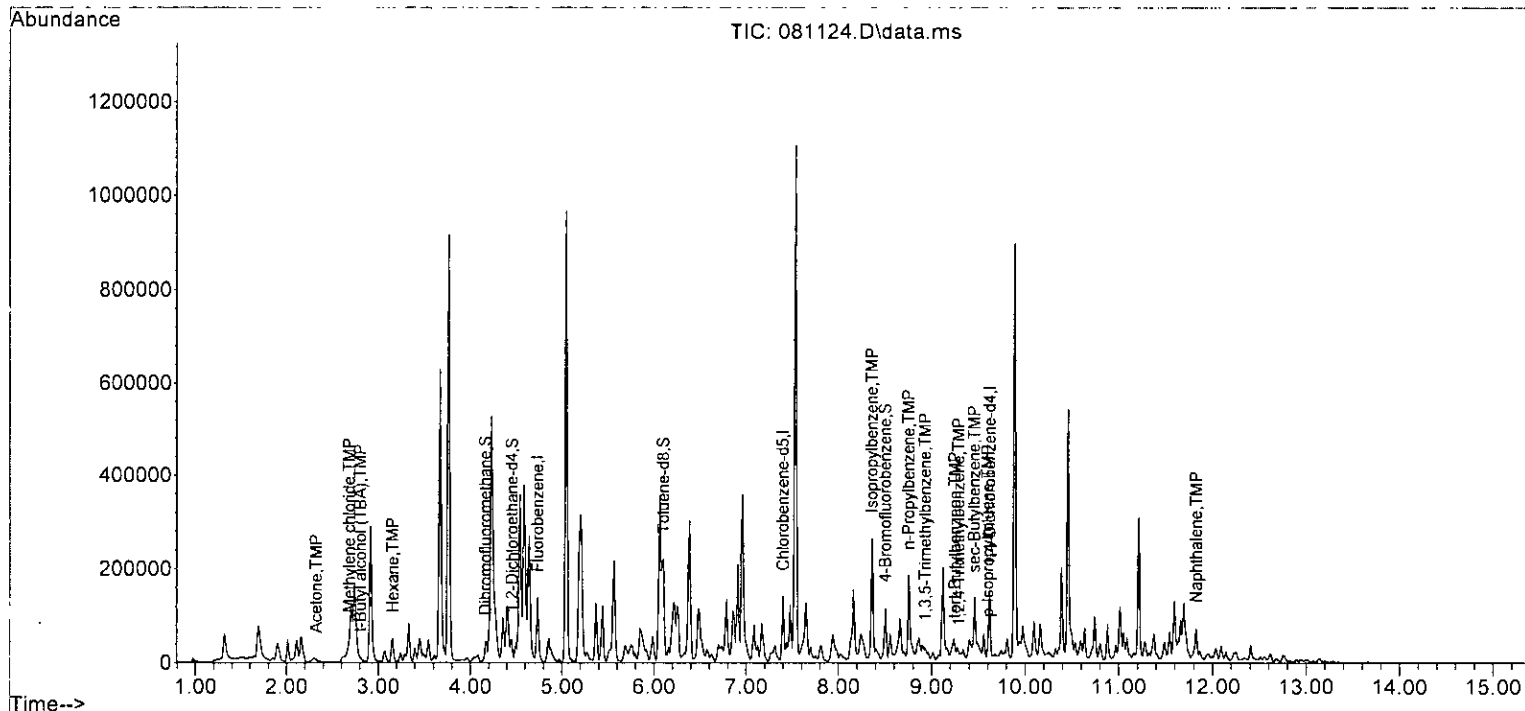
Quant Time: Aug 14 07:45:08 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.16	92	8776	1.352	ppb	97
41) trans-1,3-Dichloropropene	6.25	75	46	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.64	164	450	0.156	ppb	99
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.44	112	204	N.D.		
49] Ethylbenzene	7.54	91	651735	67.656	ppb	98
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.65	106	14159	3.731	ppb #	76
52] o-Xylene	8.01	106	612	0.155	ppb	95
53) Styrene	8.03	104	344	N.D.		
54) Isopropylbenzene	8.36	105	156750	17.604	ppb	99
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.75	91	123353	11.075	ppb	97
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	8.93	105	8679	1.121	ppb	97
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	8.63	75	166	N.D.		
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	9.25	119	6783	0.959	ppb	90
66) 1,2,4-Trimethylbenzene	9.29	105	1416	0.173	ppb	84
67) sec-Butylbenzene	9.45	105	41092	3.947	ppb	100
68) p-Isopropyltoluene	9.60	119	6492	0.747	ppb	96
69) 1,3-Dichlorobenzene	9.55	146	54	N.D.		
70) 1,4-Dichlorobenzene	9.55	146	54	N.D.		
71) 1,2-Dichlorobenzene	10.01	146	41	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.82	128	34608	4.834	ppb	98
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081124.D  
 Acq On : 11 Aug 2023 02:49 pm  
 Operator : MD  
 Sample : 308175-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:08 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081126.D  
 Acq On : 11 Aug 2023 03:36 pm  
 Operator : MD  
 Sample : 308175-09 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

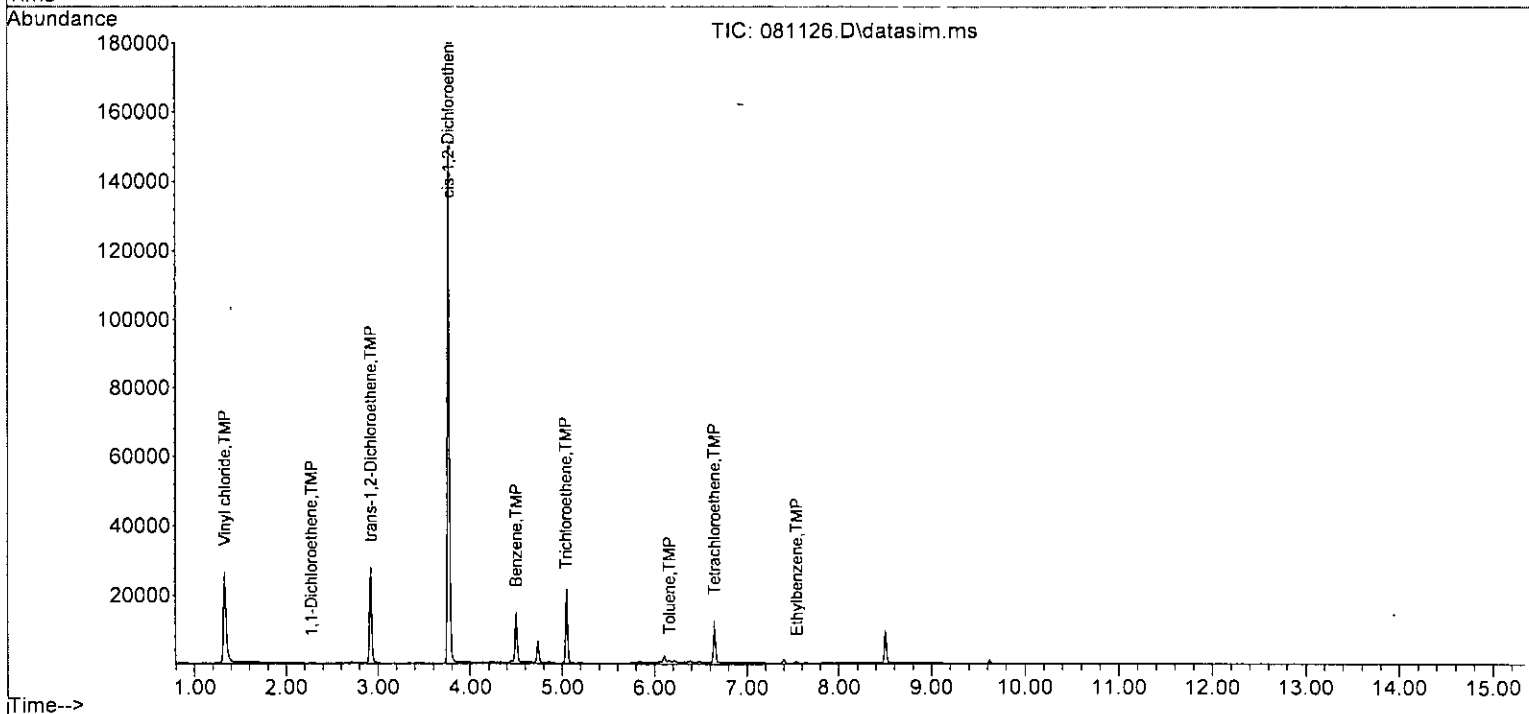
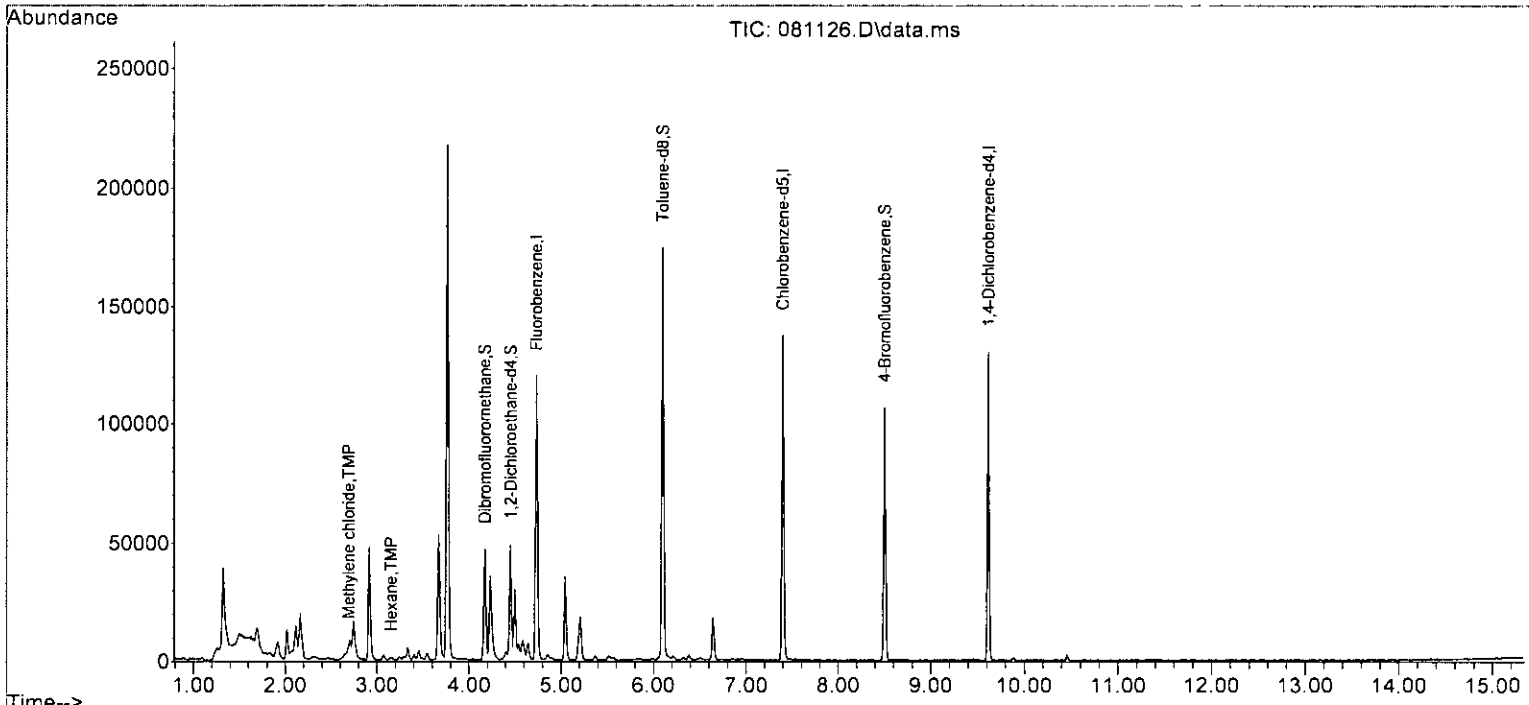
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 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

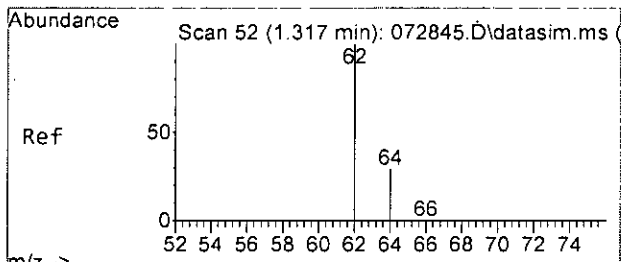
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	83470	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	66738	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	32663	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	23250	10.265	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%		
30) 1,2-Dichloroethane-d4	4.45	102	5143	10.254	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	102.50%		
35) Toluene-d8	6.10	98	92942	10.022	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	100.20%		
57) 4-Bromofluorobenzene	8.50	95	27440	9.327	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	93.30%		
Target Compounds							
							Qvalue
6] Vinyl chloride	1.33	62	40382	6.294	ppb		95
12] 1,1-Dichloroethene	2.27	96	690	0.296	ppb		79
13) Hexane	3.16	57	440	0.134	ppb	#	64
14) Methylene chloride	2.69	84	980	0.482	ppb	#	77
17] trans-1,2-Dichloroethene	2.92	96	13880	6.521	ppb	#	79
22] cis-1,2-Dichloroethene	3.77	96	78534	32.582	ppb		90
31] Benzene	4.50	78	19373	2.382	ppb		100
32] Trichloroethene	5.04	95	9160	3.675	ppb		99
40] Toluene	6.16	92	296	0.029	ppb		90
45] Tetrachloroethene	6.64	164	4087	1.551	ppb		98
49] Ethylbenzene	7.54	91	424	0.030	ppb		99
51] m,p-Xylene	7.64	106	46	Below Cal			92
52] o-Xylene	8.01	106	20	Below Cal			93
-----							

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081126.D  
 Acq On : 11 Aug 2023 03:36 pm  
 Operator : MD  
 Sample : 308175-09 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

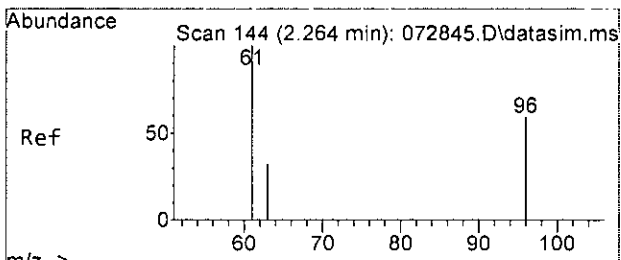
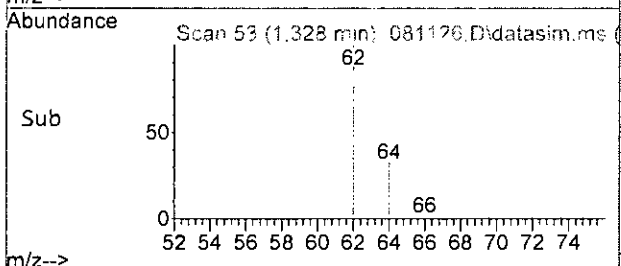
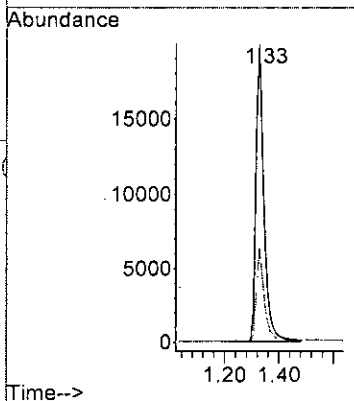
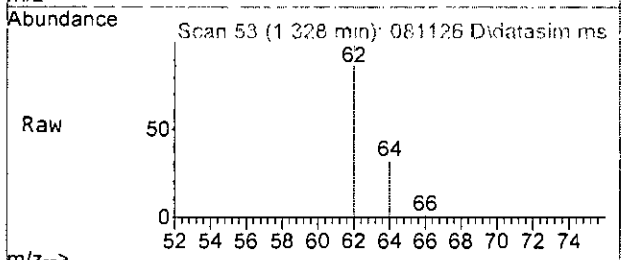
Quant Time: Aug 14 07:45:16 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





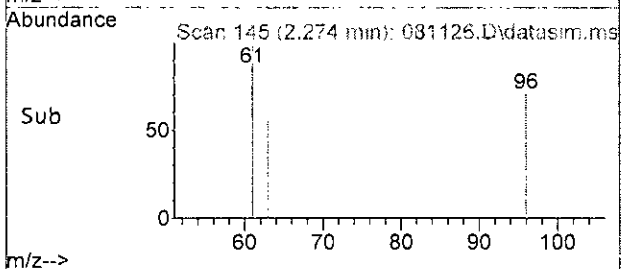
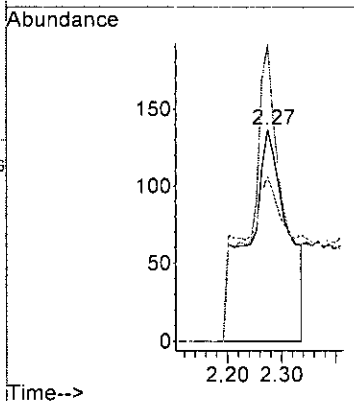
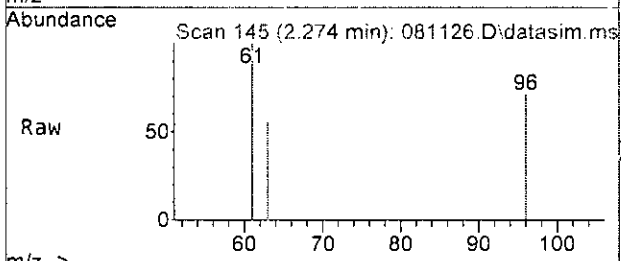
#6  
 Vinyl chloride  
 Concen: 6.294 ppb  
 RT: 1.33 min Scan# 53  
 Delta R.T. 0.011 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

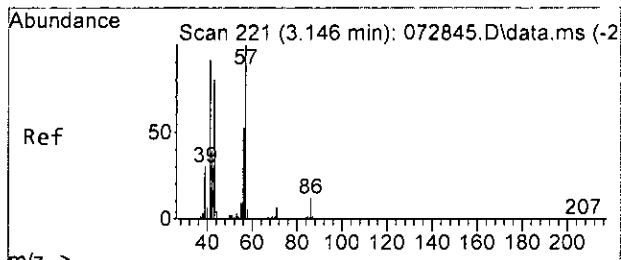
Tgt Ion: 62 Resp: 40382  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 0.0 58.9



#12  
 1,1-Dichloroethene  
 Concen: 0.296 ppb  
 RT: 2.27 min Scan# 145  
 Delta R.T. 0.010 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

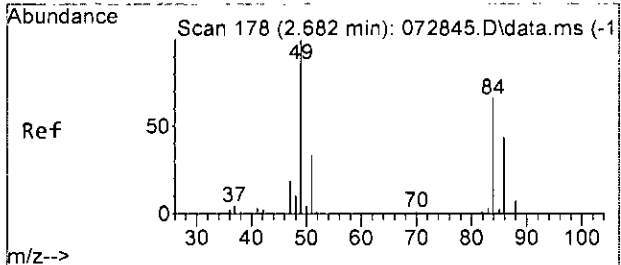
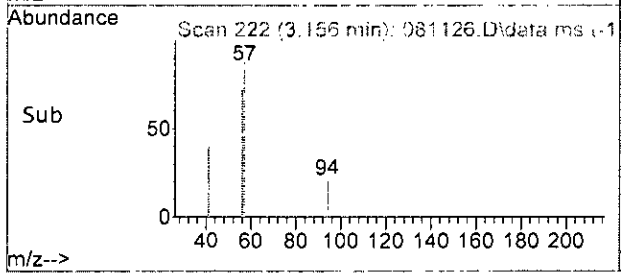
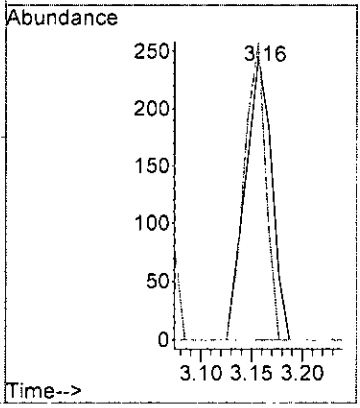
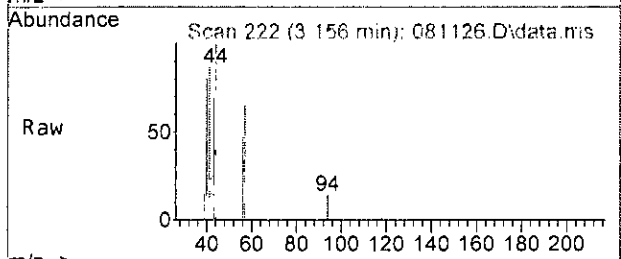
Tgt Ion: 96 Resp: 690  
 Ion Ratio Lower Upper  
 96 100  
 61 140.1 132.9 192.9  
 63 77.4 24.9 84.9





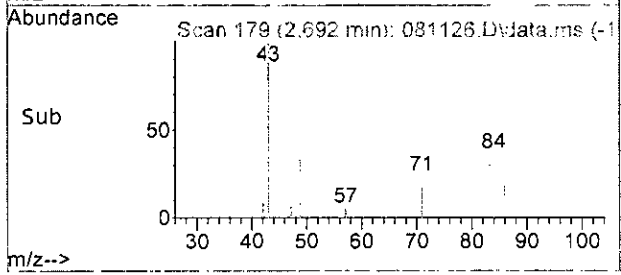
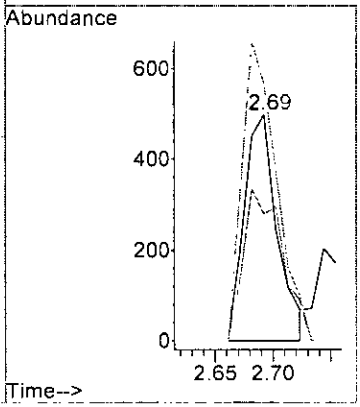
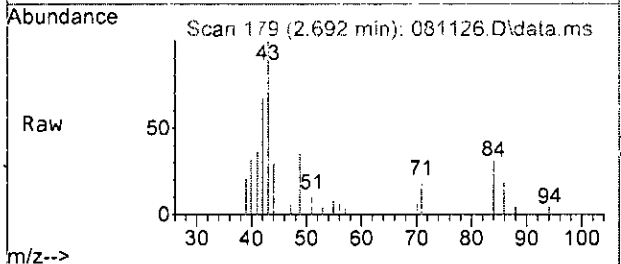
#13  
 Hexane  
 Concen: 0.134 ppb  
 RT: 3.16 min Scan# 222  
 Delta R.T. 0.010 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

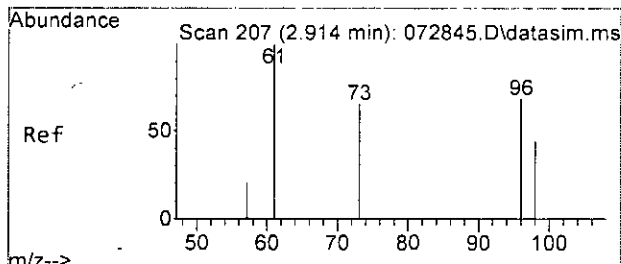
Tgt Ion	Resp	Lower	Upper
57	100		
43	105.3	44.5	104.5#
86	0.0	0.0	42.4



#14  
 Methylene chloride  
 Concen: 0.482 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

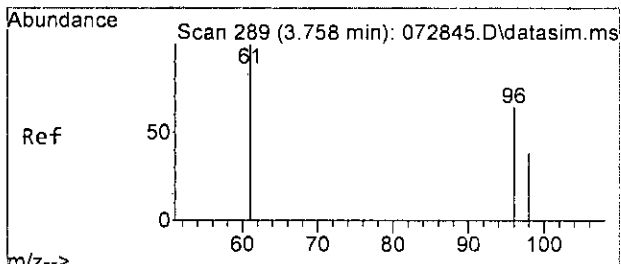
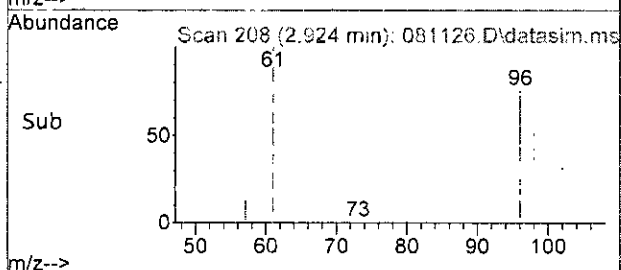
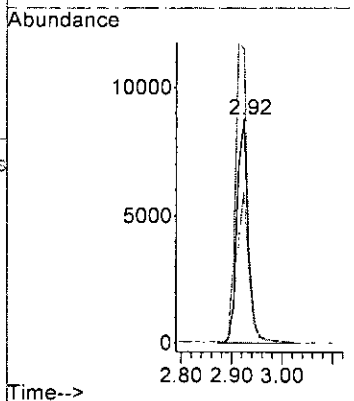
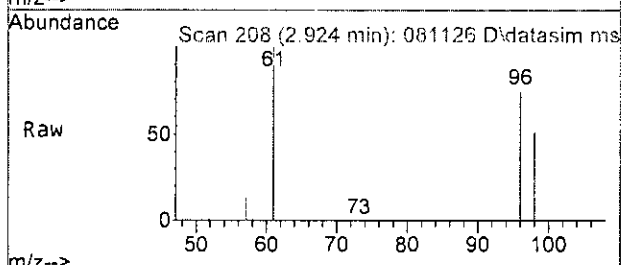
Tgt Ion	Resp	Lower	Upper
84	100		
86	56.2	29.1	89.1
49	113.7	122.1	182.1#





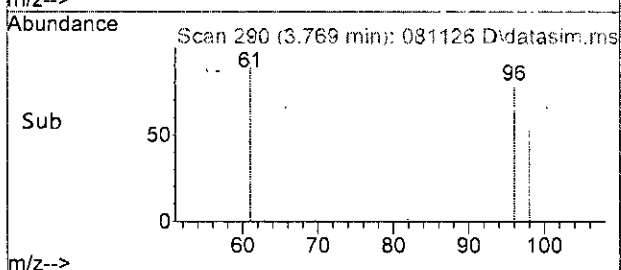
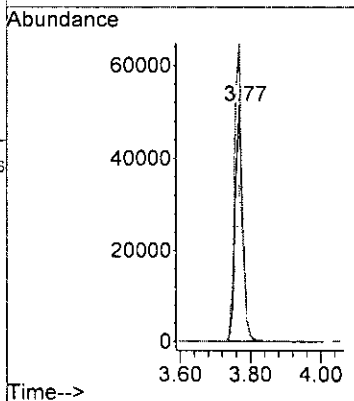
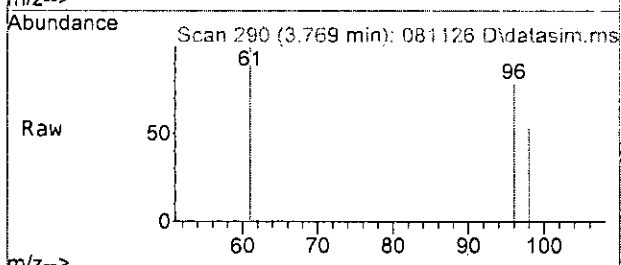
#17  
 trans-1,2-Dichloroethene  
 Concen: 6.521 ppb  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

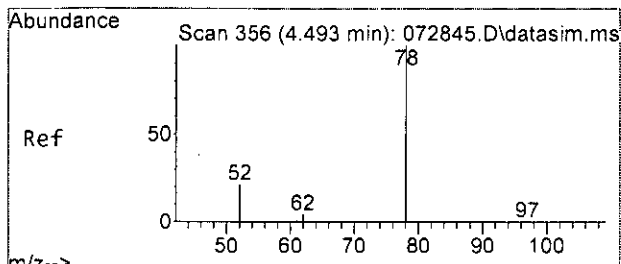
Tgt Ion:	96	Resp:	13880
Ion Ratio	Lower	Upper	
96	100		
61	132.0	135.6	195.6#
98	67.7	30.8	90.8



#22  
 cis-1,2-Dichloroethene  
 Concen: 32.582 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

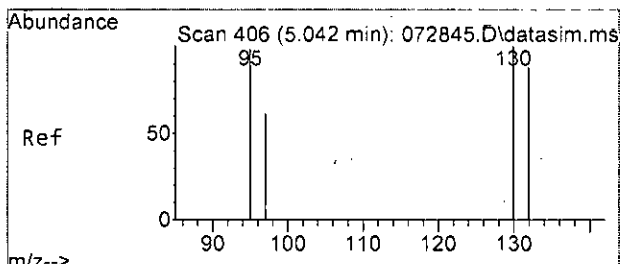
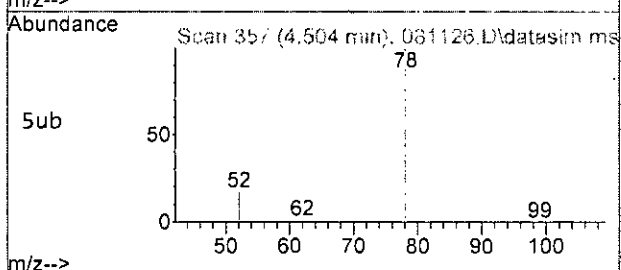
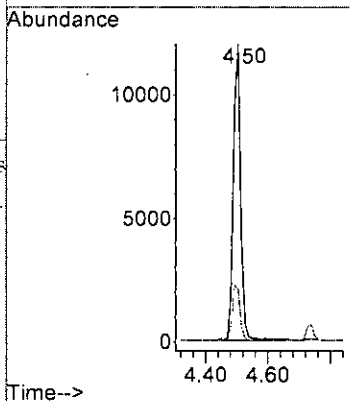
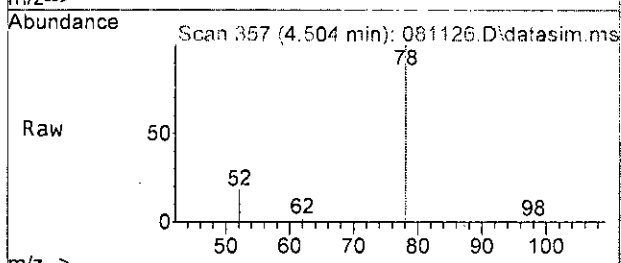
Tgt Ion:	96	Resp:	78534
Ion Ratio	Lower	Upper	
96	100		
61	125.8	112.0	172.0
98	66.4	38.6	98.6





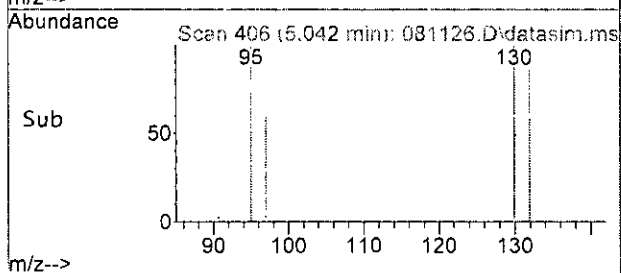
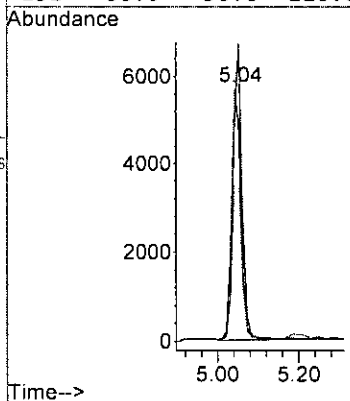
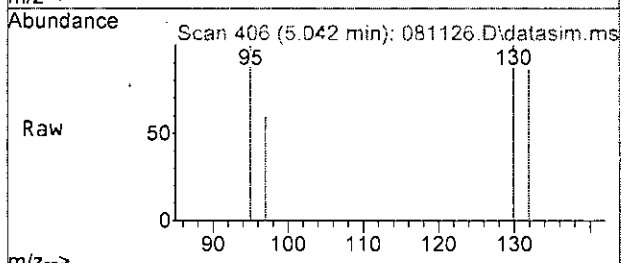
#31  
Benzene  
Concen: 2.382 ppb  
RT: 4.50 min Scan# 357  
Delta R.T. 0.011 min  
Lab File: 081126.D  
Acq: 11 Aug 2023 03:36 pm

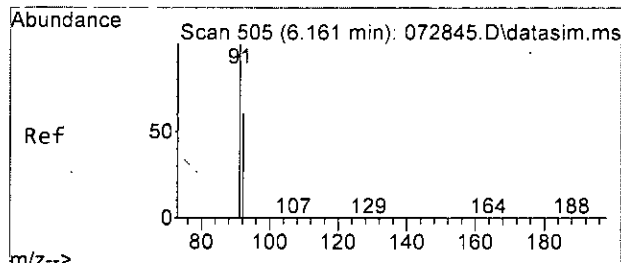
Tgt Ion: 78 Resp: 19373  
Ion Ratio Lower Upper  
78 100  
52 17.3 0.0 47.1



#32  
Trichloroethene  
Concen: 3.675 ppb  
RT: 5.04 min Scan# 406  
Delta R.T. 0.000 min  
Lab File: 081126.D  
Acq: 11 Aug 2023 03:36 pm

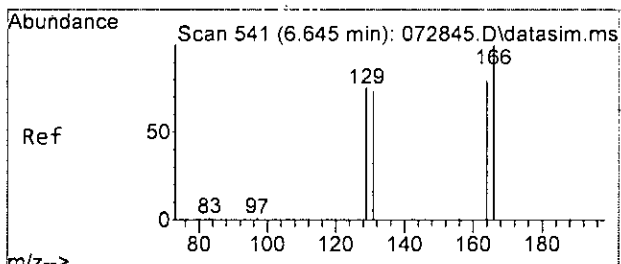
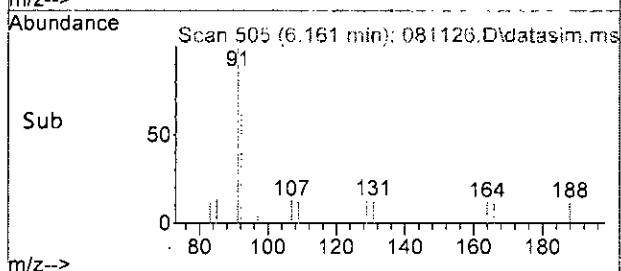
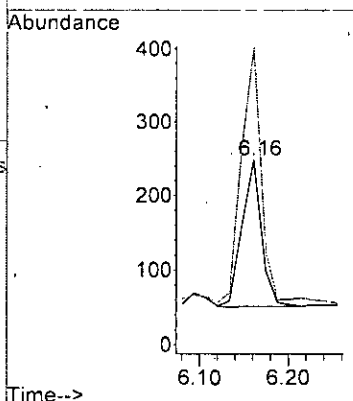
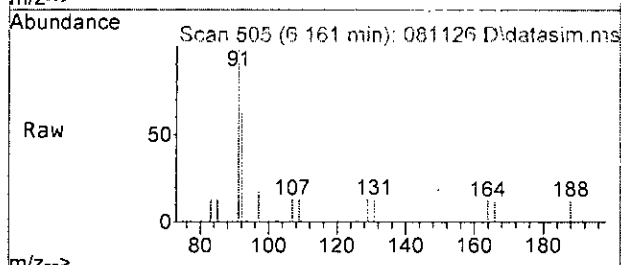
Tgt Ion: 95 Resp: 9160  
Ion Ratio Lower Upper  
95 100  
97 60.0 30.8 90.8  
130 99.6 68.6 128.6  
132 86.0 56.6 116.6





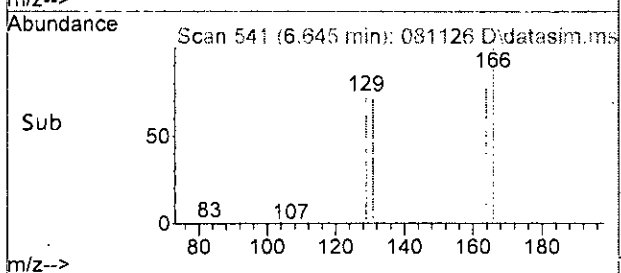
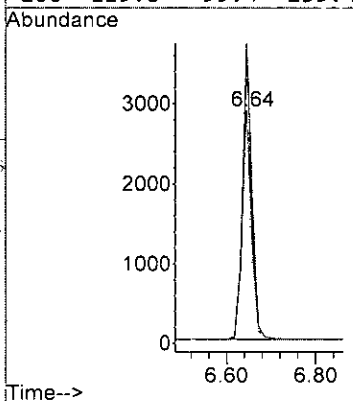
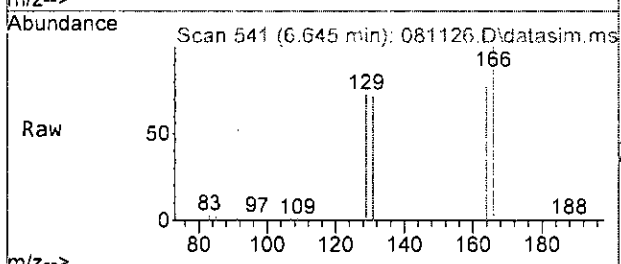
#40  
 Toluene  
 Concen: 0.029 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

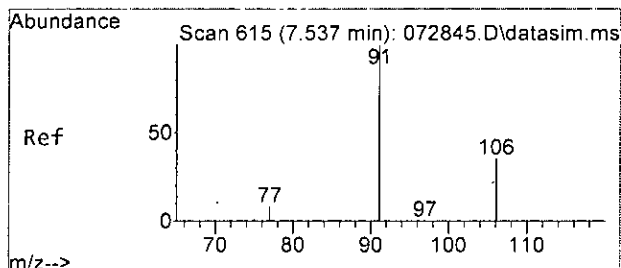
Tgt Ion: 92 Resp: 296  
 Ion Ratio Lower Upper  
 92 100  
 91 176.5 133.3 193.3



#45  
 Tetrachloroethene  
 Concen: 1.551 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

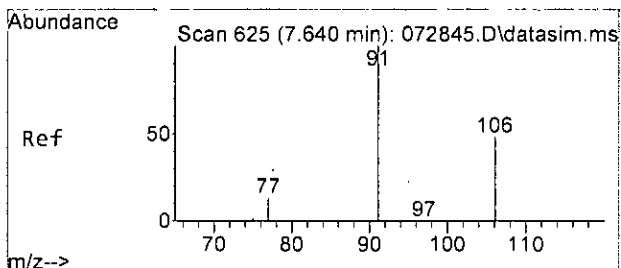
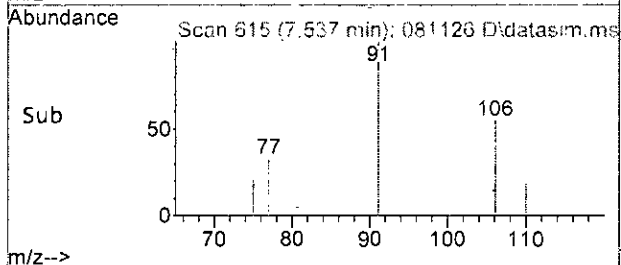
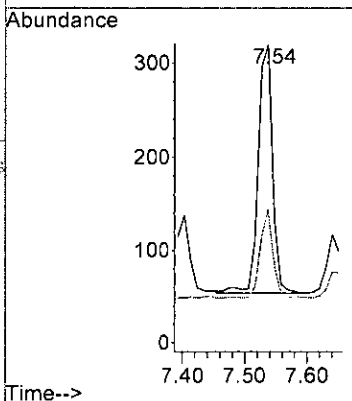
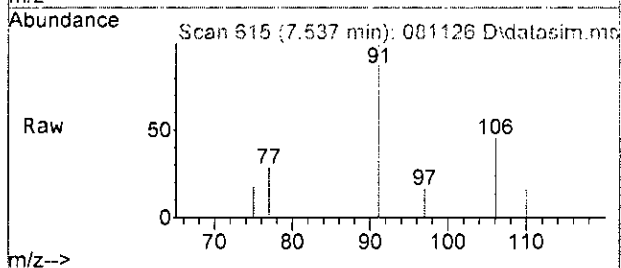
Tgt Ion: 164 Resp: 4087  
 Ion Ratio Lower Upper  
 164 100  
 129 94.6 60.7 120.7  
 131 92.1 60.4 120.4  
 166 129.8 99.4 159.4





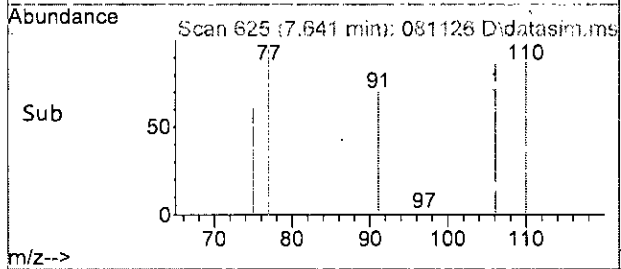
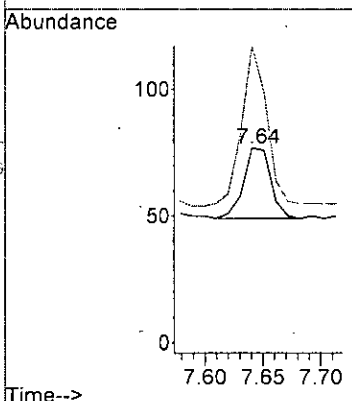
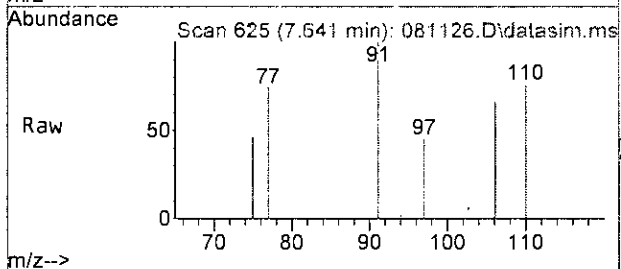
#49  
 Ethylbenzene  
 Concen: 0.030 ppb  
 RT: 7.54 min Scan# 615  
 Delta R.T. 0.000 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

Tgt Ion: 91 Resp: 424  
 Ion Ratio Lower Upper  
 91 100  
 106 35.7 5.4 65.4



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081126.D  
 Acq: 11 Aug 2023 03:36 pm

Tgt Ion: 106 Resp: 46  
 Ion Ratio Lower Upper  
 106 100  
 91 221.4 178.3 238.3





Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081126.D  
 Acq On : 11 Aug 2023 03:36 pm  
 Operator : MD  
 Sample : 308175-09 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:16 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	83470	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	66738	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	32663	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	23250	10.265	ppb	0.01	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%		
30) 1,2-Dichloroethane-d4	4.45	102	5143	10.254	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	102.50%		
35) Toluene-d8	6.10	98	92942	10.022	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	100.20%		
57) 4-Bromofluorobenzene	8.50	95	27440	9.327	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	93.30%		
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	135	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.23	50	365	N.D.			
6] Vinyl chloride	1.33	62	40382	6.294	ppb		95
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.34	45	135	No Calib	#		
11) Acetone	2.33	58	196	N.D.			
12] 1,1-Dichloroethene	2.27	96	690	0.296	ppb		79
13) Hexane	3.16	57	440	0.134	ppb	#	64
14) Methylene chloride	2.69	84	980	0.482	ppb	#	77
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.92	96	13880	6.521	ppb	#	79
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.71	77	80	N.D.			
22] cis-1,2-Dichloroethene	3.77	96	78534	32.582	ppb		90
23) Chloroform	4.05	83	112	N.D.			
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.50	73	357	N.D.			
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	19373	2.382	ppb		100
32] Trichloroethene	5.04	95	9160	3.675	ppb		99
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081126.D  
 Acq On : 11 Aug 2023 03:36 pm  
 Operator : MD  
 Sample : 308175-09 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

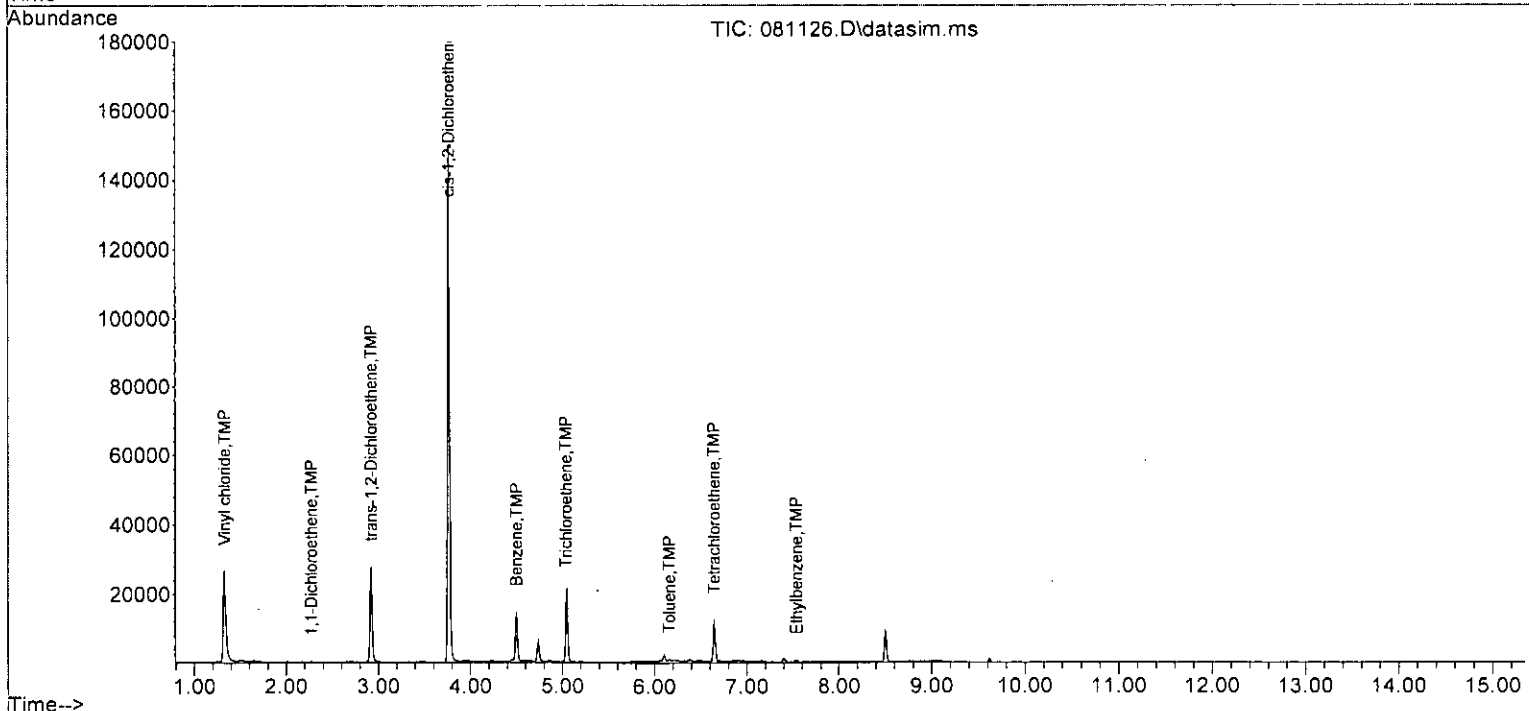
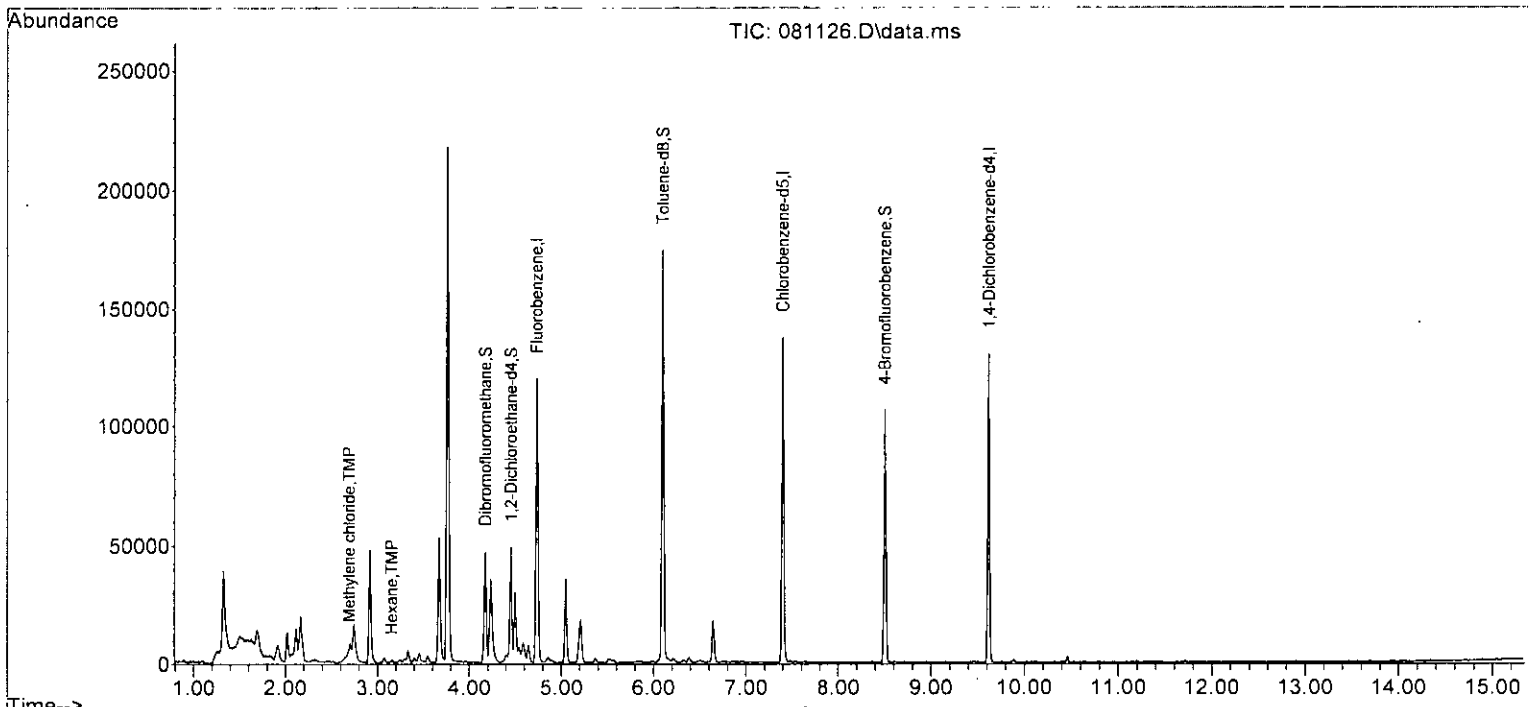
Quant Time: Aug 14 07:45:16 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.16	92	296	0.029 ppb	90
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.38	83	144	N.D.	
43) 2-Hexanone	6.75	43	70	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.64	164	4087	1.551 ppb	98
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.54	91	424	0.030 ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.64	106	46	Below Cal	92
52] o-Xylene	8.01	106	20	Below Cal	93
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	8.37	105	370	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	0.00		0	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	
63) 2-Chlorotoluene	0.00		0	N.D.	
64) 4-Chlorotoluene	0.00		0	N.D.	
65) tert-Butylbenzene	9.24	119	23	N.D.	
66) 1,2,4-Trimethylbenzene	9.46	105	97	N.D.	
67) sec-Butylbenzene	9.46	105	97	N.D.	
68) p-Isopropyltoluene	9.81	119	63	N.D.	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.82	128	26	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081126.D  
 Acq On : 11 Aug 2023 03:36 pm  
 Operator : MD  
 Sample : 308175-09 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:45:16 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081120.D  
 Acq On : 11 Aug 2023 01:15 pm  
 Operator : MD  
 Sample : 308175-10  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

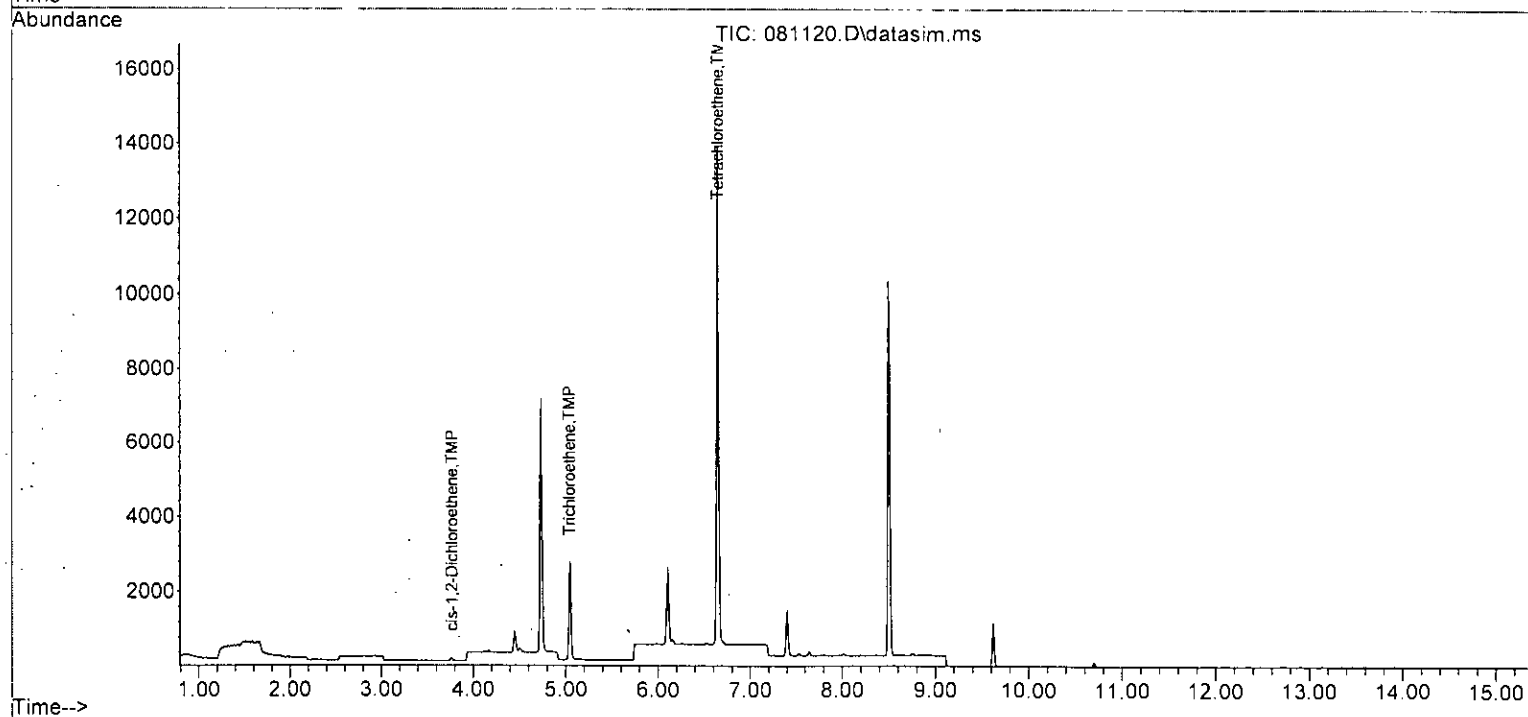
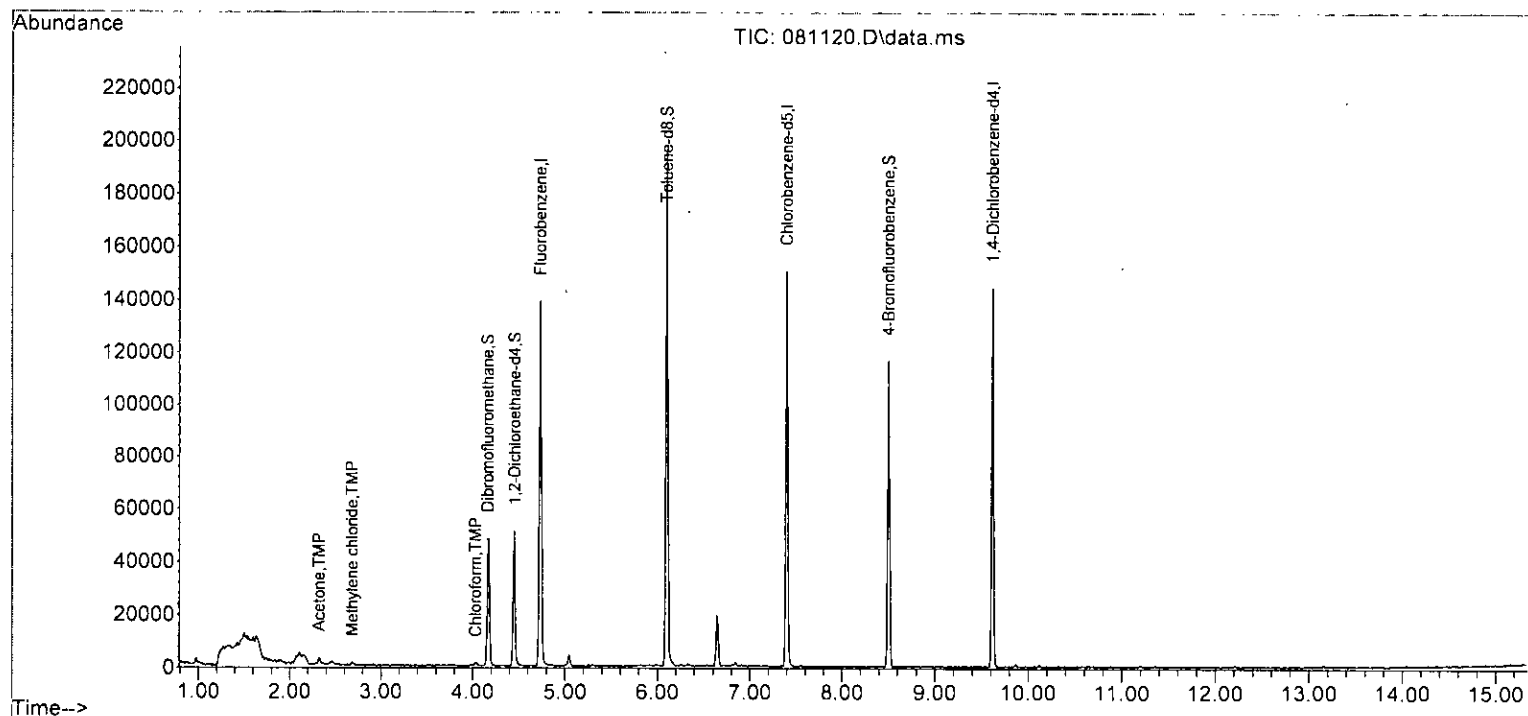
Quant Time: Aug 14 07:44:52 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

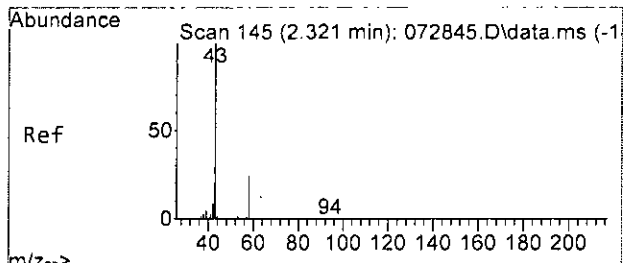
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	96412	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	72728	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35904	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	26084	9.971	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.70%
30) 1,2-Dichloroethane-d4	4.45	102	5854	10.105	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	101.00%
35) Toluene-d8	6.10	98	105399	9.840	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	98.40%
57) 4-Bromofluorobenzene	8.50	95	31124	9.624	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.20%
Target Compounds						
						Qvalue
11) Acetone	2.32	58	517	1.355	ppb #	24
14) Methylene chloride	2.68	84	551	0.235	ppb #	62
22] cis-1,2-Dichloroethene	3.77	96	49	0.018	ppb #	78
23) Chloroform	4.03	83	782	0.179	ppb	90
26] 1,2-Dichloroethane (EDC)	4.52	62	77	Below Cal		94
32] Trichloroethene	5.04	95	1106	0.372	ppb	97
40] Toluene	6.16	92	64	Below Cal	#	75
45] Tetrachloroethene	6.64	164	4630	1.613	ppb	98
49] Ethylbenzene	7.54	91	64	Below Cal		97
51] m,p-Xylene	7.64	106	45	Below Cal		98
52] o-Xylene	8.01	106	20	Below Cal		98

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081120.D  
 Acq On : 11 Aug 2023 01:15 pm  
 Operator : MD  
 Sample : 308175-10  
 Misc : water  
 AL5 Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

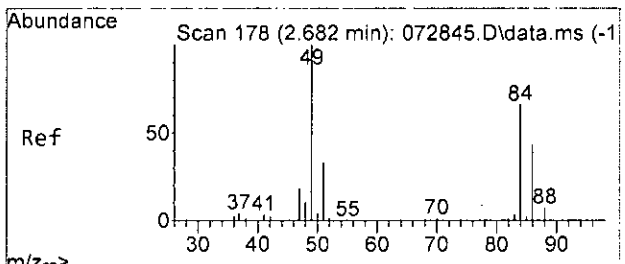
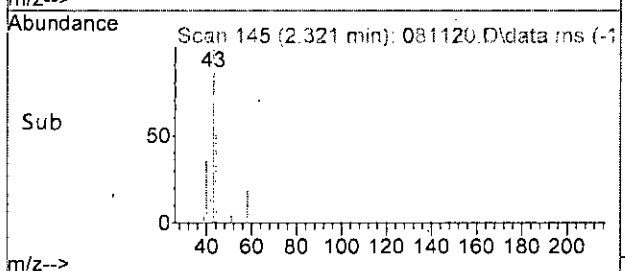
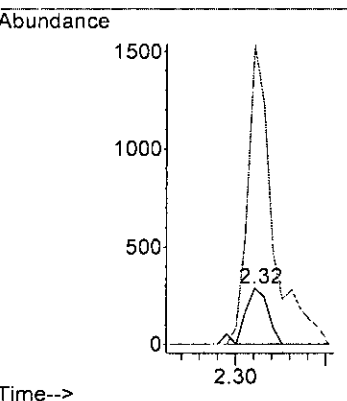
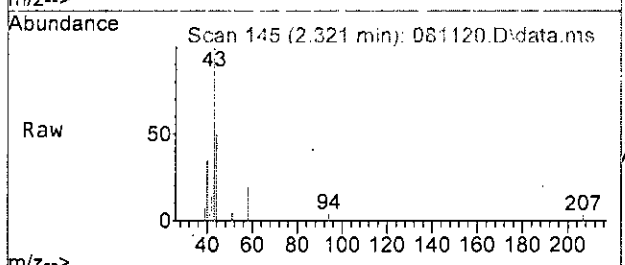
Quant Time: Aug 14 07:44:52 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





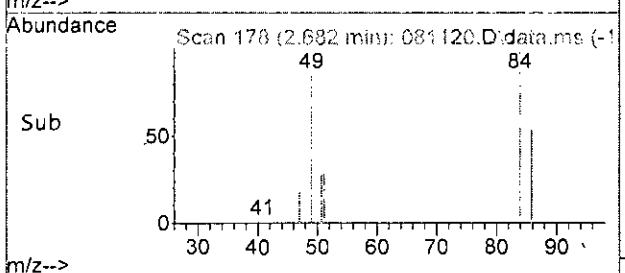
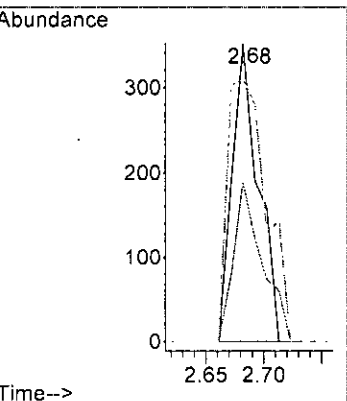
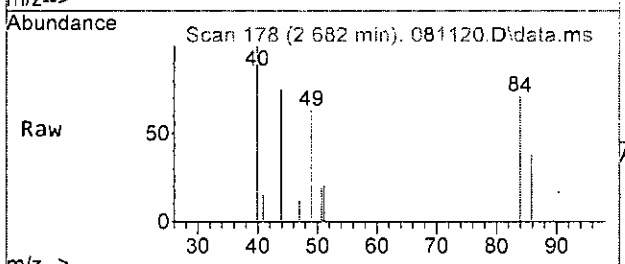
#11  
 Acetone  
 Concen: 1.355 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. 0.000 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

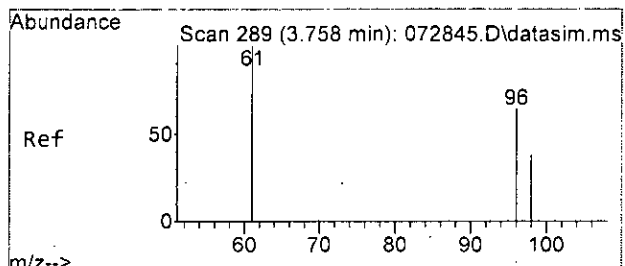
Tgt Ion: 58 Resp: 517  
 Ion Ratio Lower Upper  
 58 100  
 43 571.4 363.1 423.1#



#14  
 Methylene chloride  
 Concen: 0.235 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

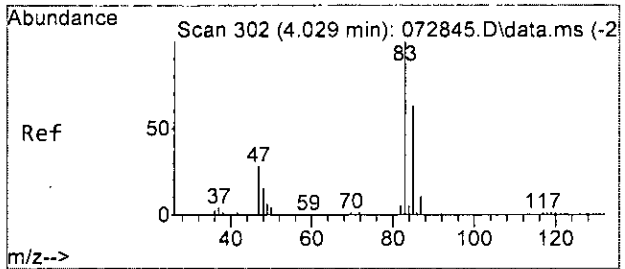
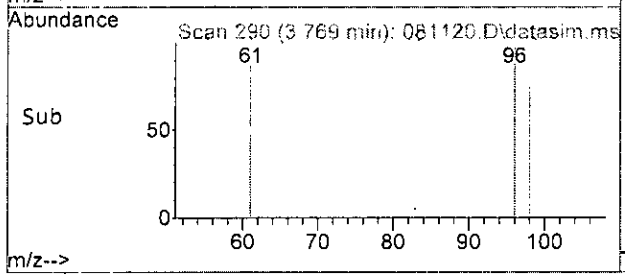
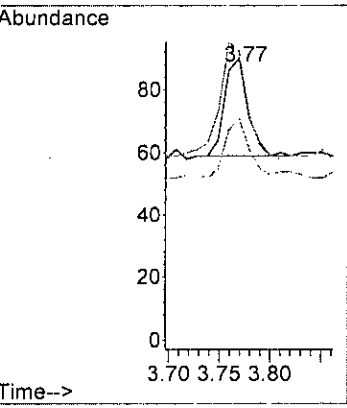
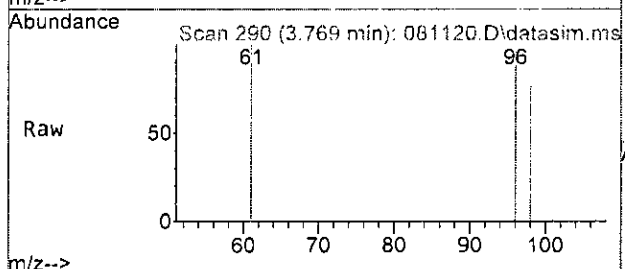
Tgt Ion: 84 Resp: 551  
 Ion Ratio Lower Upper  
 84 100  
 86 54.1 29.1 89.1  
 49 88.3 122.1 182.1#





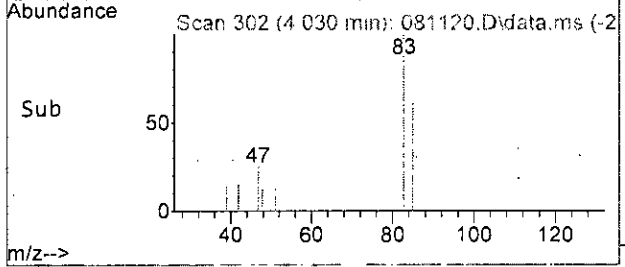
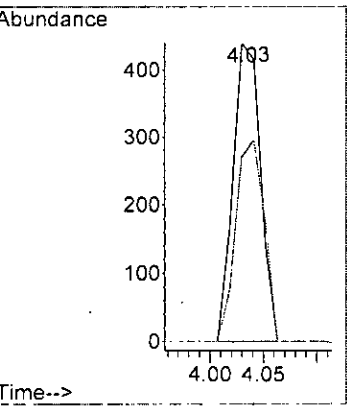
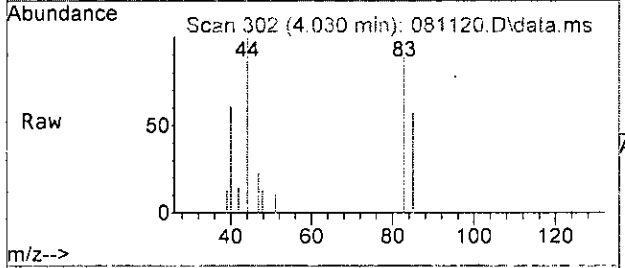
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.018 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

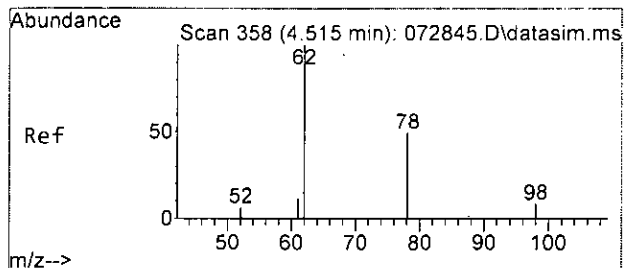
Tgt Ion	Resp	Lower	Upper
96	100		
61	106.5	112.0	172.0#
98	61.3	38.6	98.6



#23  
 Chloroform  
 Concen: 0.179 ppb  
 RT: 4.03 min Scan# 302  
 Delta R.T. 0.001 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

Tgt Ion	Resp	Lower	Upper
83	100		
85	61.4	39.2	99.2

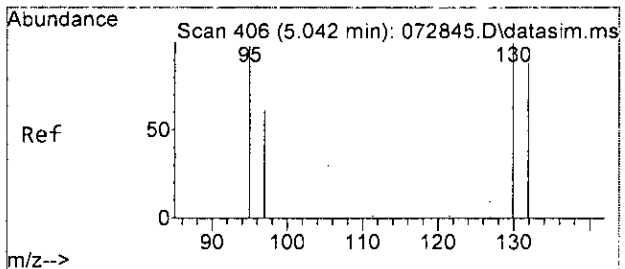
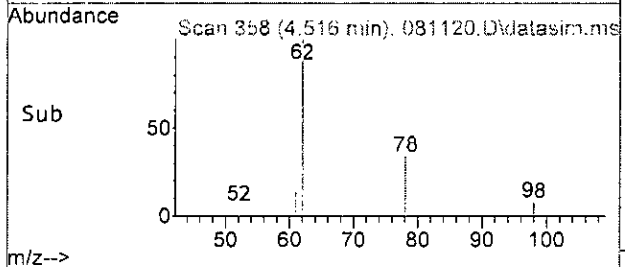
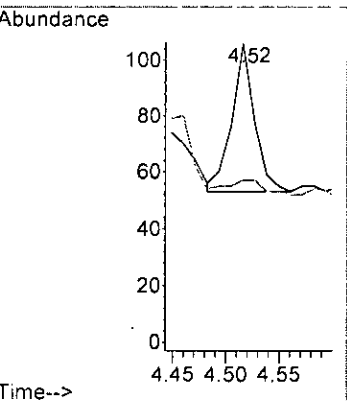
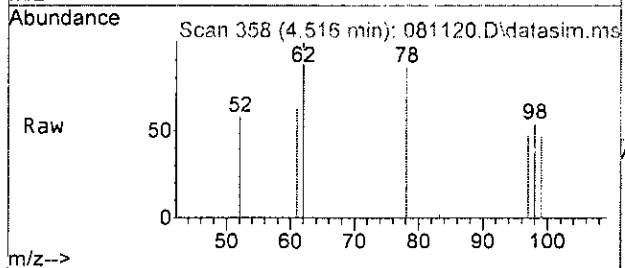




#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.001 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

Tgt Ion: 62 Resp: 77

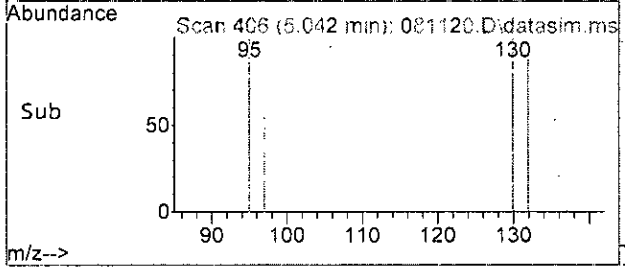
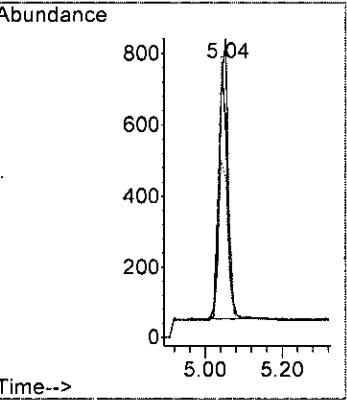
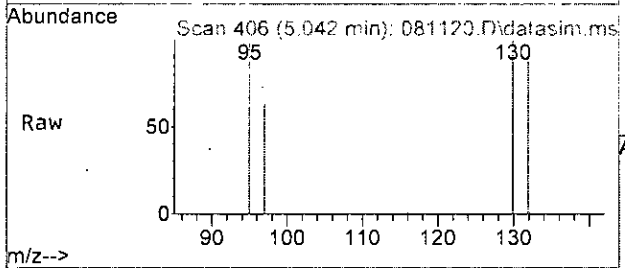
Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	37.3



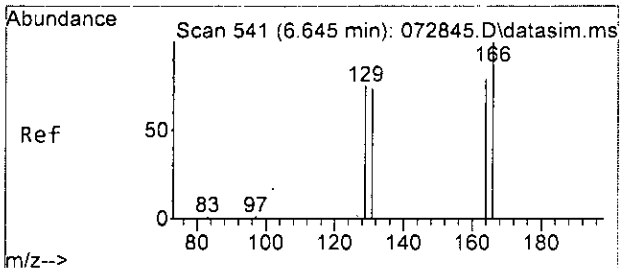
#32  
 Trichloroethene  
 Concen: 0.372 ppb  
 RT: 5.04 min Scan# 406  
 Delta R.T. 0.000 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

Tgt Ion: 95 Resp: 1106

Ion	Ratio	Lower	Upper
95	100		
97	61.4	30.8	90.8
130	101.9	68.6	128.6
132	90.8	56.6	116.6

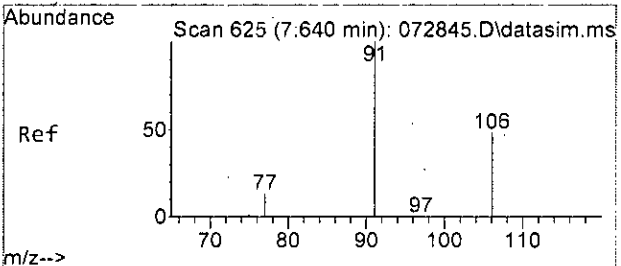
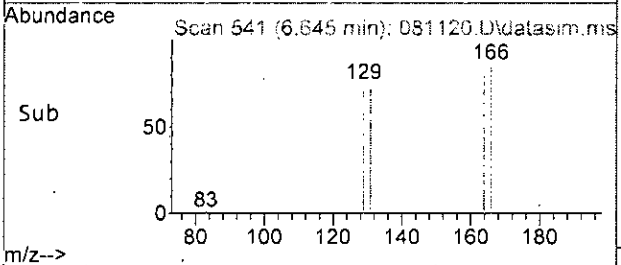
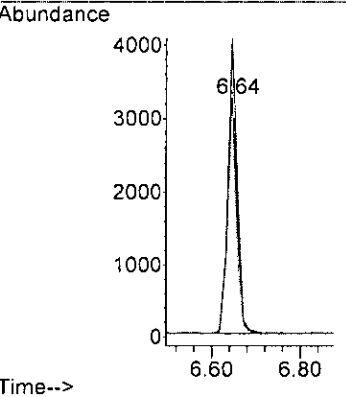
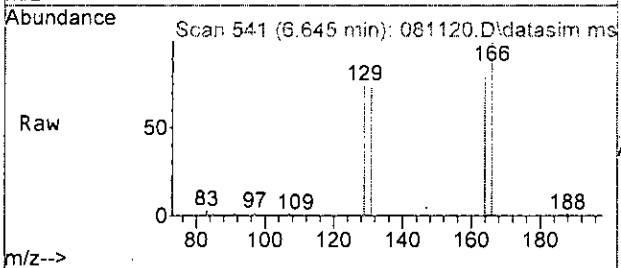






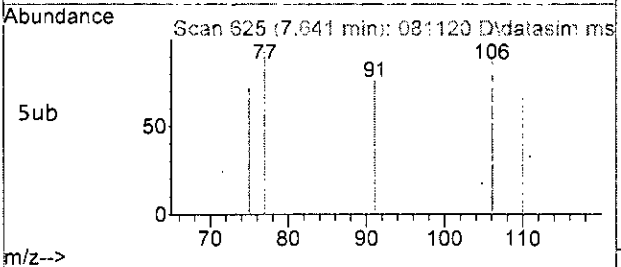
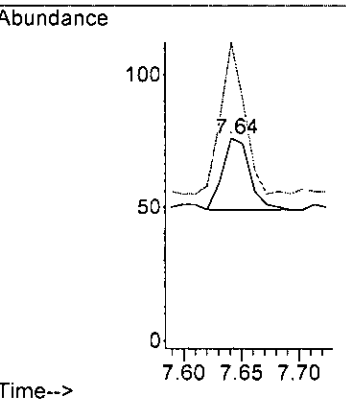
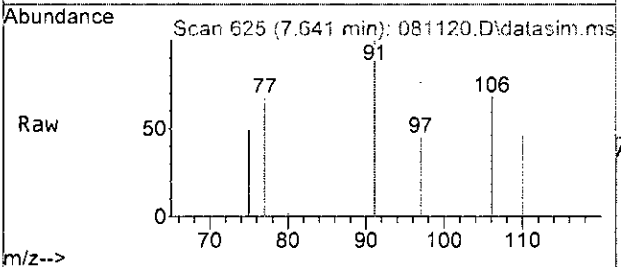
#45  
 Tetrachloroethene  
 Concen: 1.613 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

Tgt Ion	Resp	Lower	Upper
164	100		
129	93.6	60.7	120.7
131	90.7	60.4	120.4
166	125.3	99.4	159.4



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081120.D  
 Acq: 11 Aug 2023 01:15 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	211.1	178.3	238.3



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081120.D  
 Acq On : 11 Aug 2023 01:15 pm  
 Operator : MD  
 Sample : 308175-10  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:52 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.73	96	96412	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	72728	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35904	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.16	113	26084	9.971	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.70%	
30) 1,2-Dichloroethane-d4	4.45	102	5854	10.105	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	101.00%	
35) Toluene-d8	6.10	98	105399	9.840	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	98.40%	
57) 4-Bromofluorobenzene	8.50	95	31124	9.624	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	96.20%	
<b>Target Compounds</b>						
2) Ethanol	2.27	45	88	No Calib		Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.24	50	2825	N.D.		
6) Vinyl chloride	0.00		0	N.D. d		
7) Bromomethane	0.00		0	N.D. d		
8) Chloroethane	1.64	64	267	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	2.27	45	88	No Calib	#	
11) Acetone	2.32	58	517	1.355	ppb #	24
12) 1,1-Dichloroethene	0.00		0	N.D. d		
13) Hexane	0.00		0	N.D.		
14) Methylene chloride	2.68	84	551	0.235	ppb #	62
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17) trans-1,2-Dichloroethene	0.00		0	N.D.		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.68	77	35	N.D.		
22] cis-1,2-Dichloroethene	3.77	96	49	0.018	ppb #	78
23) Chloroform	4.03	83	782	0.179	ppb	90
24) 2-Butanone (MEK)	0.00		0	N.D. d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26] 1,2-Dichloroethane (EDC)	4.52	62	77	Below Cal		94
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	4.50	78	116	N.D.		
32] Trichloroethene	5.04	95	1106	0.372	ppb	97
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081120.D  
 Acq On : 11 Aug 2023 01:15 pm  
 Operator : MD  
 Sample : 308175-10  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

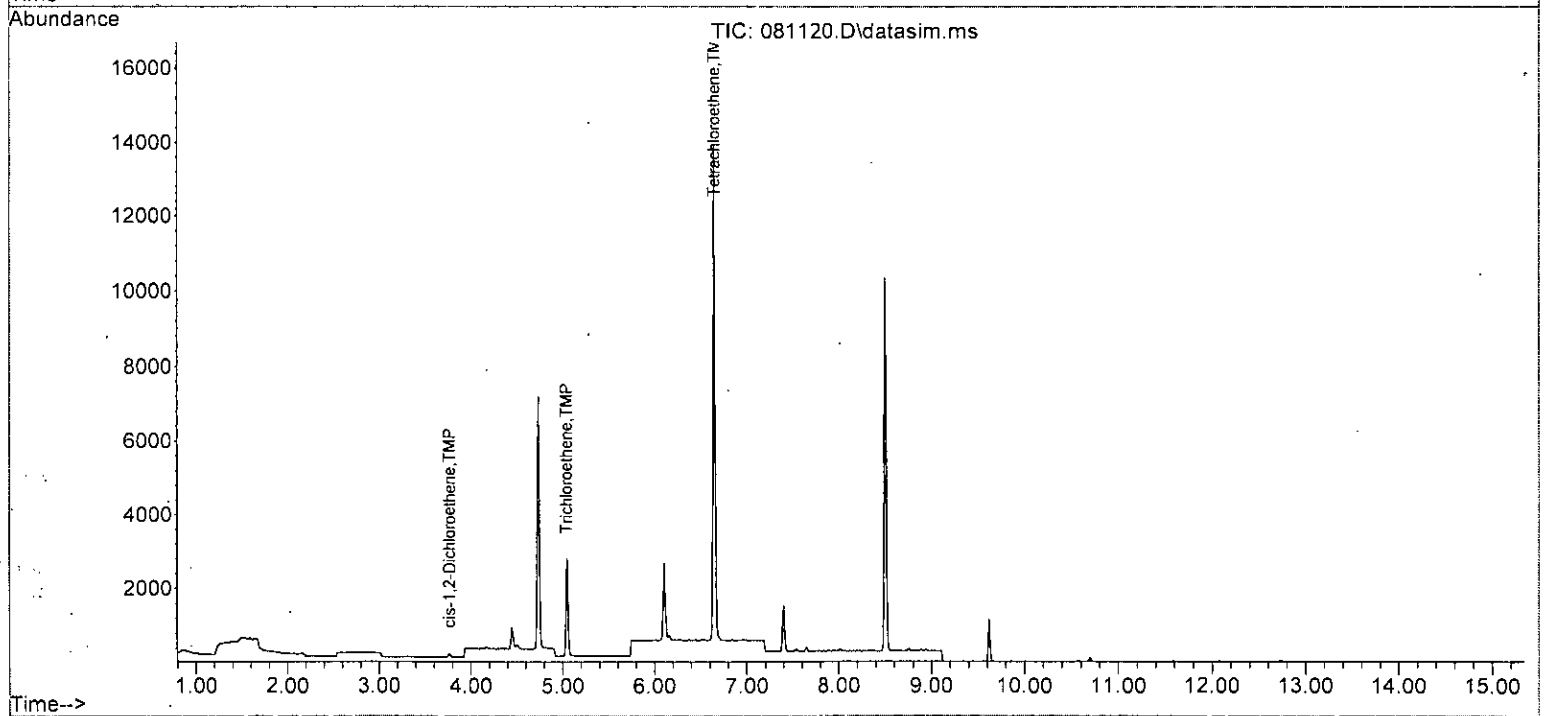
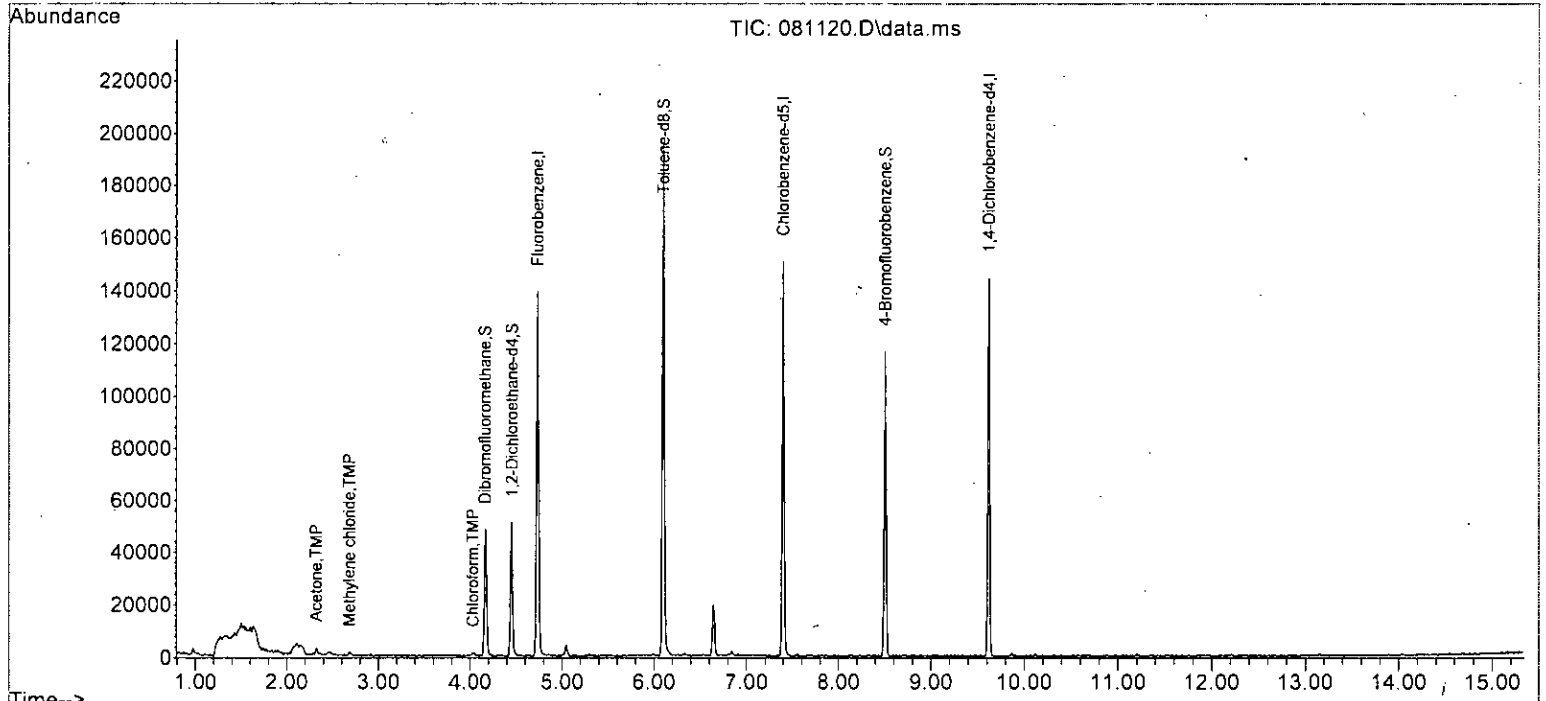
Quant Time: Aug 14 07:44:52 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	64	Below Cal	#	75
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.52	83	40		N.D.	
43) 2-Hexanone	6.71	43	48		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.64	164	4630	1.613	ppb	98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	64	Below Cal		97
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	45	Below Cal		98
52] o-Xylene	8.01	106	20	Below Cal		98
53) Styrene	8.04	104	45		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D.	
64) 4-Chlorotoluene	0.00		0		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.45	105	61		N.D.	
67) sec-Butylbenzene	9.45	105	61		N.D.	
68) p-Isopropyltoluene	9.61	119	136		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.82	128	28		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081120.D  
 Acq On : 11 Aug 2023 01:15 pm  
 Operator : MD  
 Sample : 308175-10  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:52 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081119.D  
 Acq On : 11 Aug 2023 12:52 pm  
 Operator : MD  
 Sample : 308175-11  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

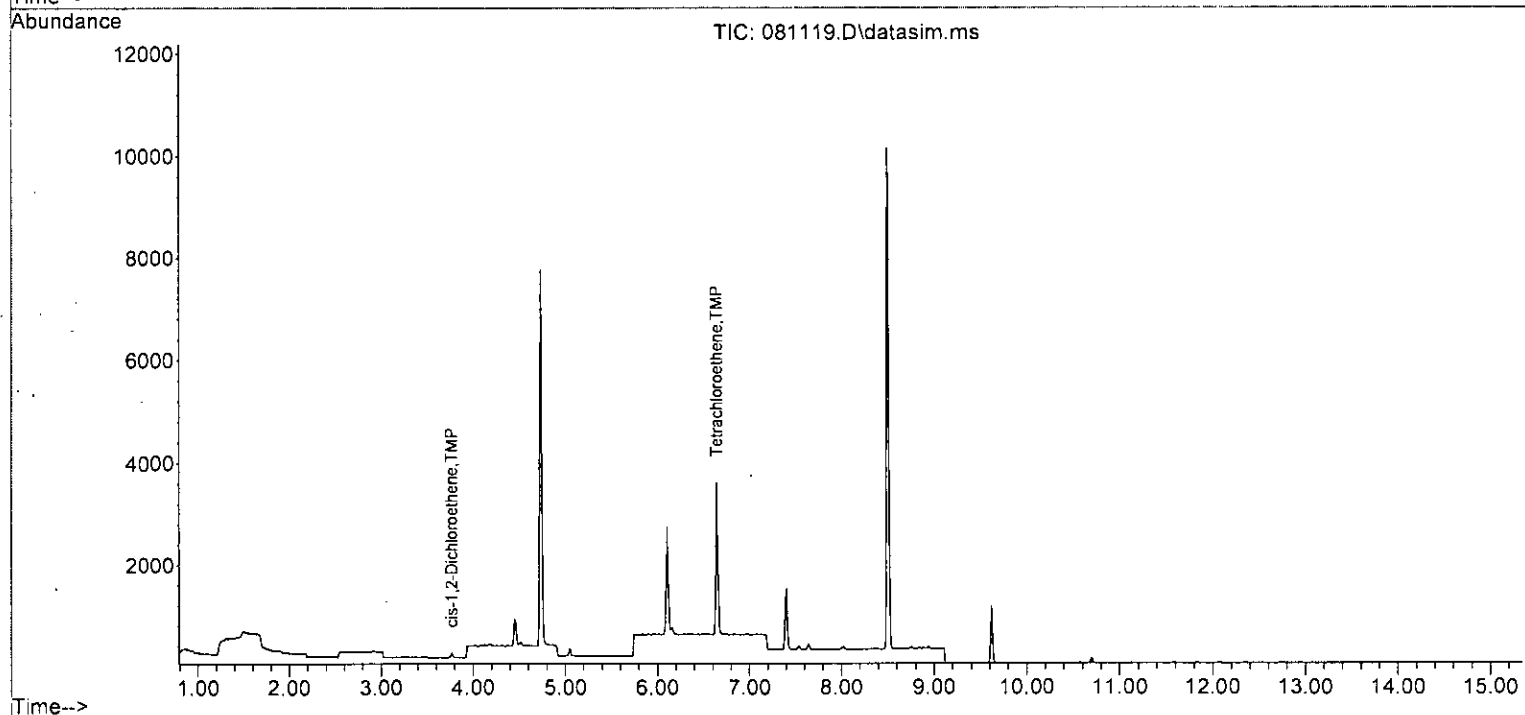
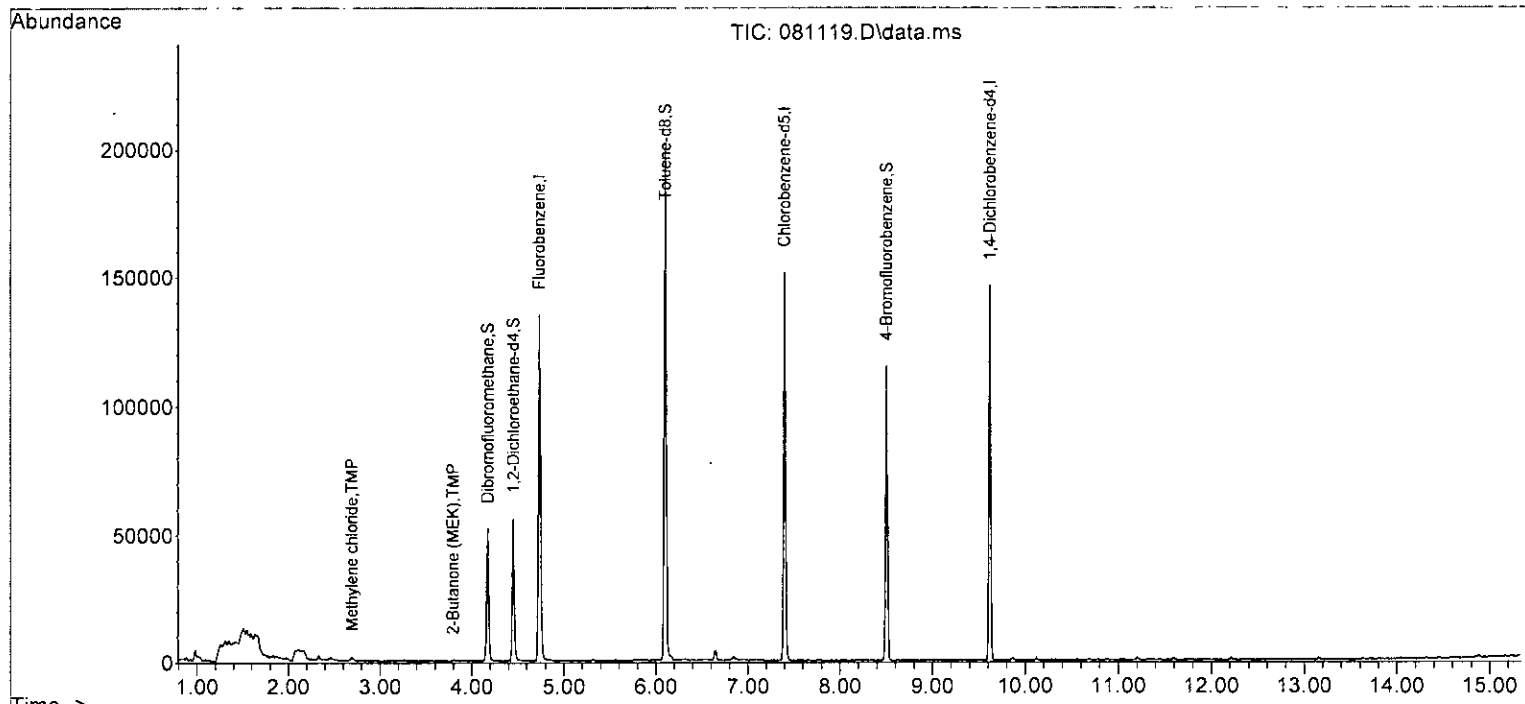
Quant Time: Aug 14 07:44:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

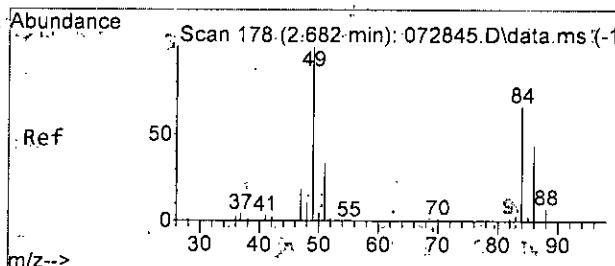
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	103386	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	73938	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35070	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	26516	9.452	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	94.50%
30) 1,2-Dichloroethane-d4	4.45	102	5846	9.410	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	94.10%
35) Toluene-d8	6.10	98	104797	9.123	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	91.20%
57) 4-Bromofluorobenzene	8.50	95	30564	9.676	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.80%
Target Compounds						
						Qvalue
14) Methylene chloride	2.69	84	595	0.236	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	42	0.014	ppb	89
24) 2-Butanone (MEK)	3.79	43	316	0.159	ppb	66
26] 1,2-Dichloroethane (EDC)	4.52	62	77	Below Cal		85
31] Benzene	4.50	78	41	Below Cal		99
40] Toluene	6.16	92	69	Below Cal		99
45] Tetrachloroethene	6.64	164	1035	0.338	ppb	96
49] Ethylbenzene	7.54	91	74	Below Cal		98
51] m,p-Xylene	7.64	106	52	Below Cal		97

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081119.D  
 Acq On : 11 Aug 2023 12:52 pm  
 Operator : MD  
 Sample : 308175-11  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

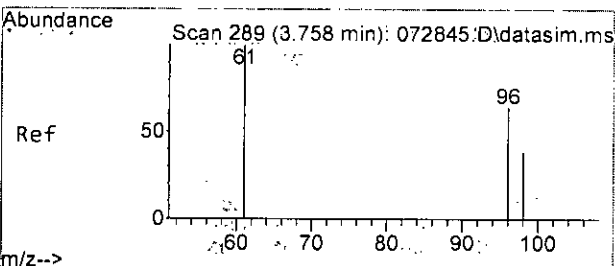
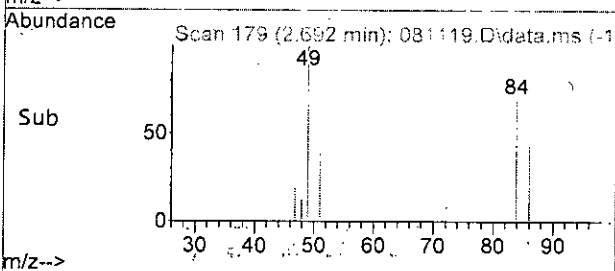
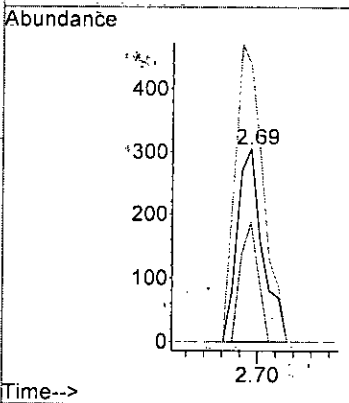
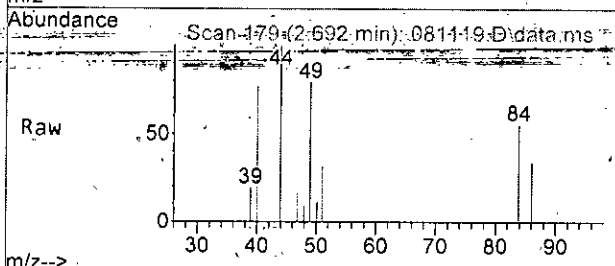
Quant Time: Aug 14 07:44:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





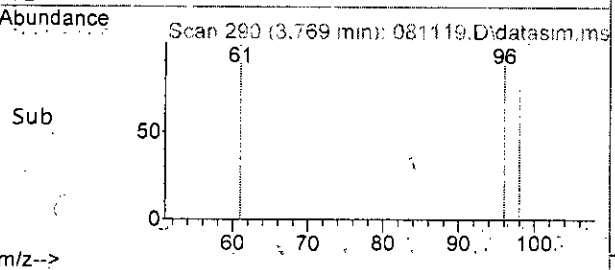
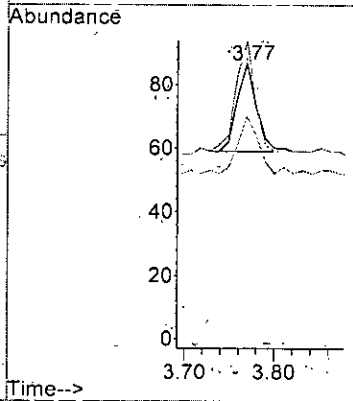
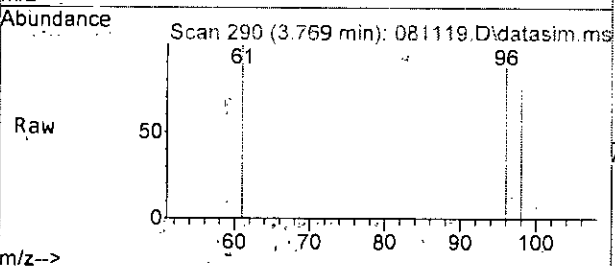
#14  
 Methylene chloride  
 Concen: 0.236 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 081119.D  
 Acq: 11 Aug 2023 12:52 pm

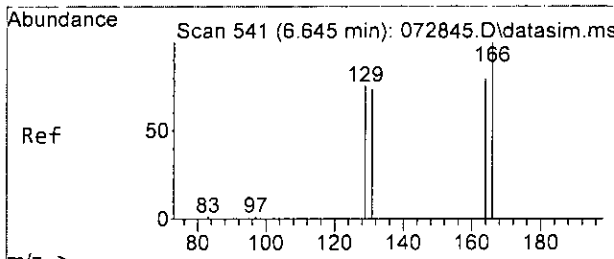
Tgt Ion: 84 Resp: 595  
 Ion Ratio Lower Upper  
 484 100  
 786 61.3 29.1 89.1  
 549 143.6 122.1 182.1



#22  
 cis-1,2-Dichloroethene  
 Concen: 0.014 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.011 min  
 Lab File: 081119.D  
 Acq: 11 Aug 2023 12:52 pm

Tgt Ion: 96 Resp: 42  
 Ion Ratio Lower Upper  
 96 100  
 61 125.0 112.0 172.0  
 98 64.3 38.6 98.6

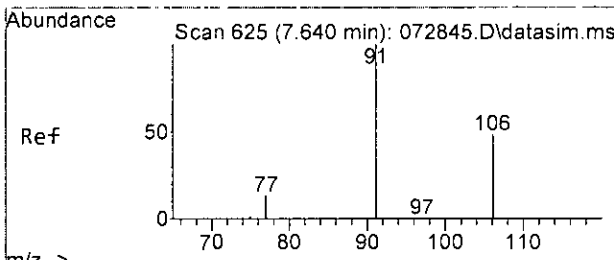
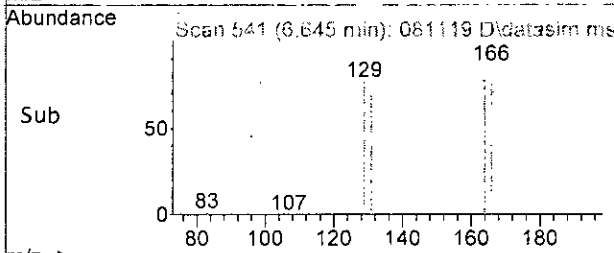
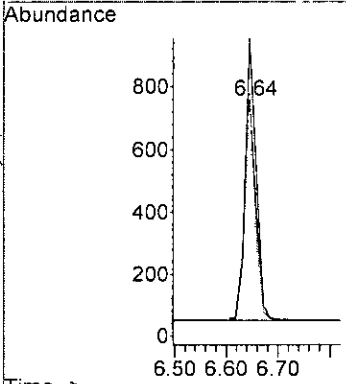
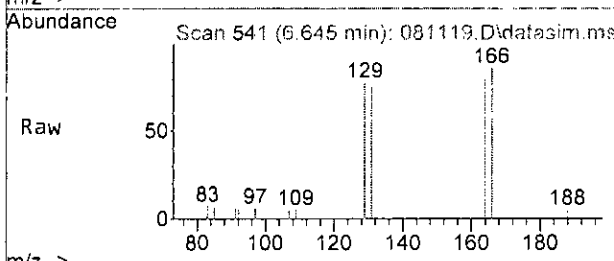




#45  
 Tetrachloroethene  
 Concen: 0.338 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081119.D  
 Acq: 11 Aug 2023 12:52 pm

Tgt Ion:164 Resp: 1035

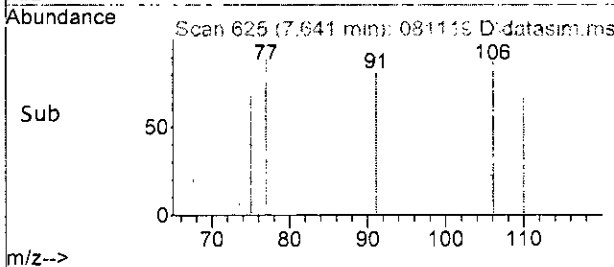
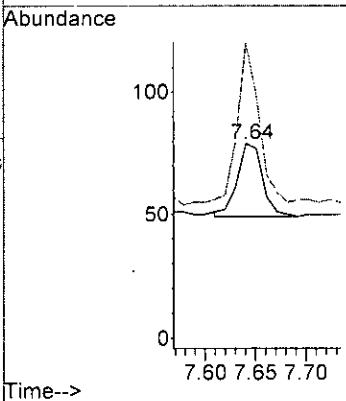
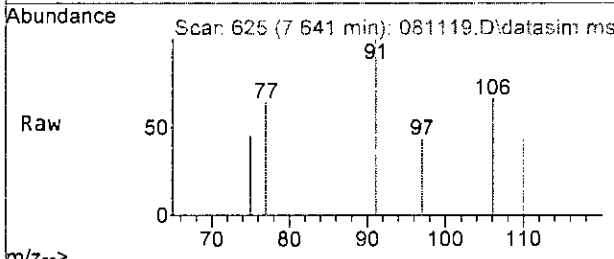
Ion	Ratio	Lower	Upper
164	100		
129	97.9	60.7	120.7
131	94.1	60.4	120.4
166	127.7	99.4	159.4



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081119.D  
 Acq: 11 Aug 2023 12:52 pm

Tgt Ion:106 Resp: 52

Ion	Ratio	Lower	Upper
106	100		
91	213.3	178.3	238.3





Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081119.D  
 Acq On : 11 Aug 2023 12:52 pm  
 Operator : MD  
 Sample : 308175-11  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	103386	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	73938	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	35070	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	26516	9.452	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	94.50%	
30) 1,2-Dichloroethane-d4	4.45	102	5846	9.410	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	94.10%	
35) Toluene-d8	6.10	98	104797	9.123	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	91.20%	
57) 4-Bromofluorobenzene	8.50	95	30564	9.676	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.80%	
Target Compounds							
2) Ethanol	2.28	45	61	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.26	50	2101	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.28	45	61	No Calib	#		
11) Acetone	2.33	58	322	N.D.			
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.69	84	595	0.236	ppb	94	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22] cis-1,2-Dichloroethene	3.77	96	42	0.014	ppb	89	
23) Chloroform	4.03	83	210	N.D.			
24) 2-Butanone (MEK)	3.79	43	316	0.159	ppb	66	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	77	Below Cal		85	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	41	Below Cal		99	
32) Trichloroethene	5.04	95	58	N.D.			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081119.D  
 Acq On : 11 Aug 2023 12:52 pm  
 Operator : MD  
 Sample : 308175-11  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

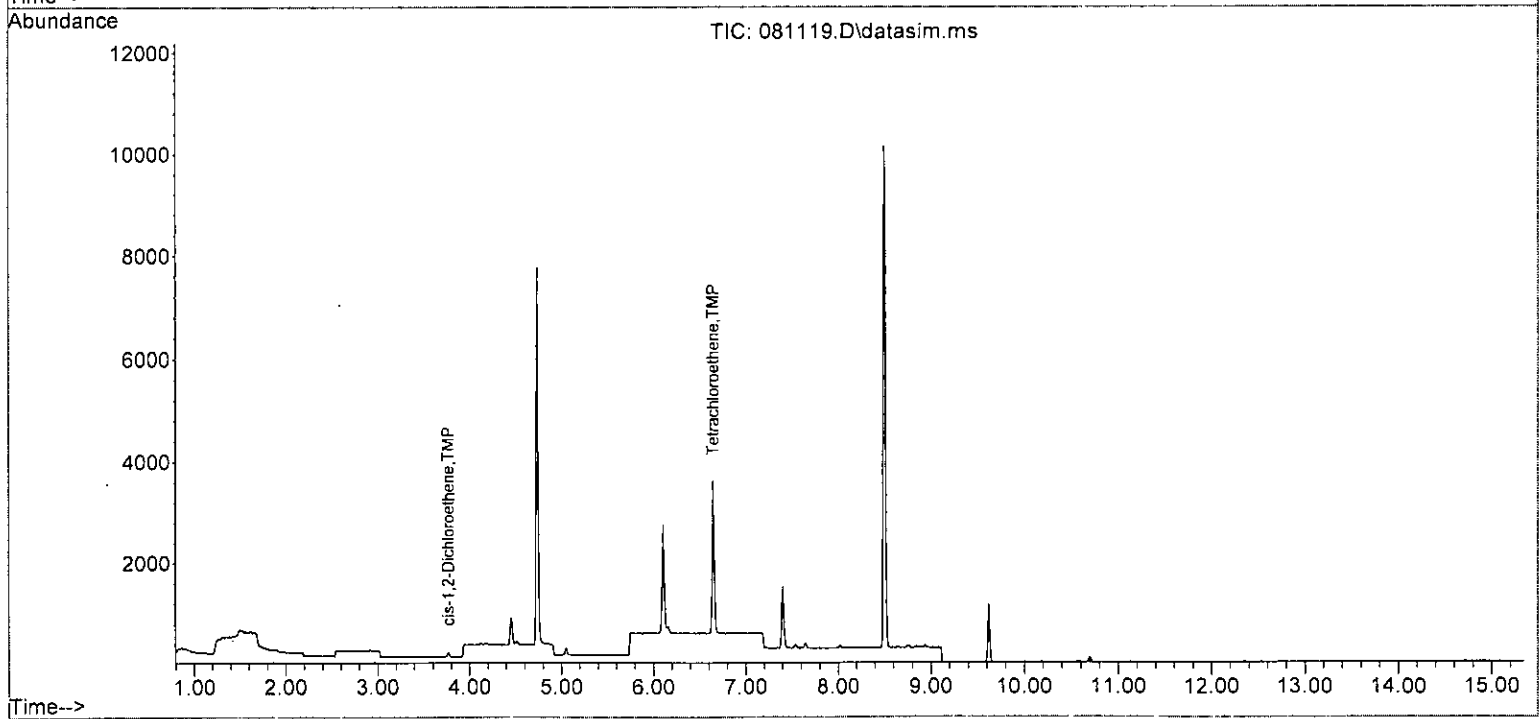
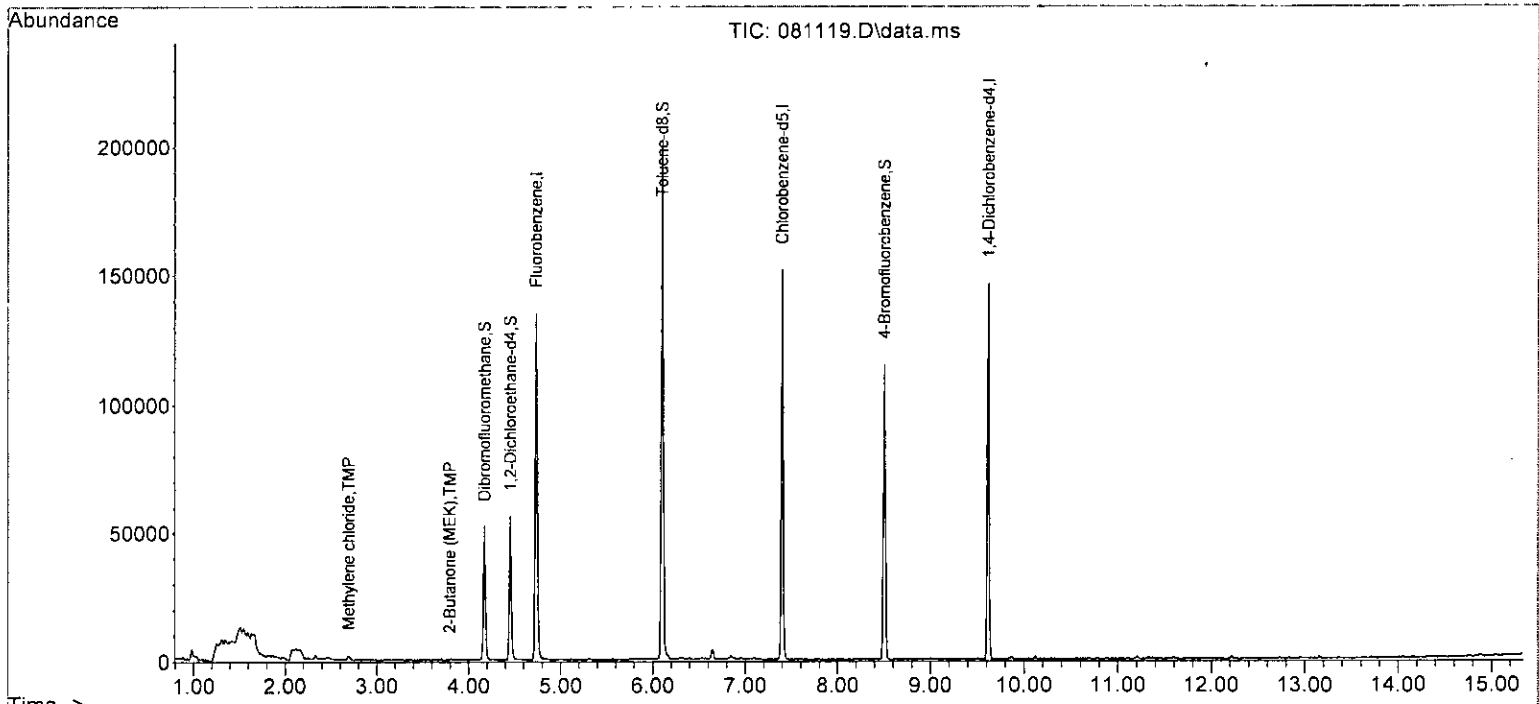
Quant Time: Aug 14 07:44:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	69	Below Cal		99
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.52	83	36		N.D.	
43) 2-Hexanone	6.77	43	63		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.64	164	1035	0.338	ppb	96
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	74	Below Cal		98
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	52	Below Cal		97
52) o-Xylene	0.00		0		N.D.	
53) Styrene	8.03	104	35		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	0.00		0		N.D.	
64) 4-Chlorotoluene	0.00		0		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	86		N.D.	
67) sec-Butylbenzene	9.29	105	86		N.D.	
68) p-Isopropyltoluene	9.60	119	199		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.84	128	91		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081119.D  
 Acq On : 11 Aug 2023 12:52 pm  
 Operator : MD  
 Sample : 308175-11  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:48 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081118.D  
 Acq On : 11 Aug 2023 12:29 pm  
 Operator : MD  
 Sample : 308175-12  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

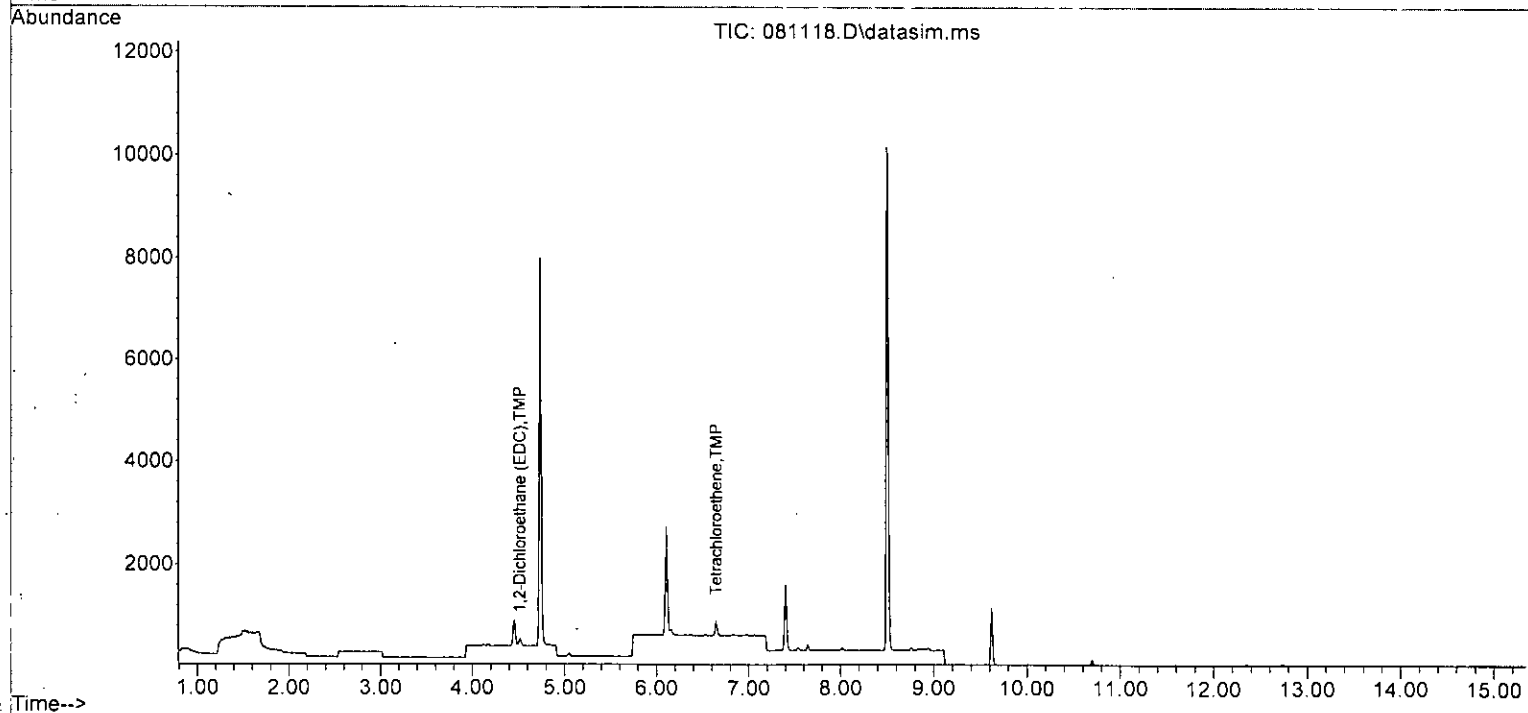
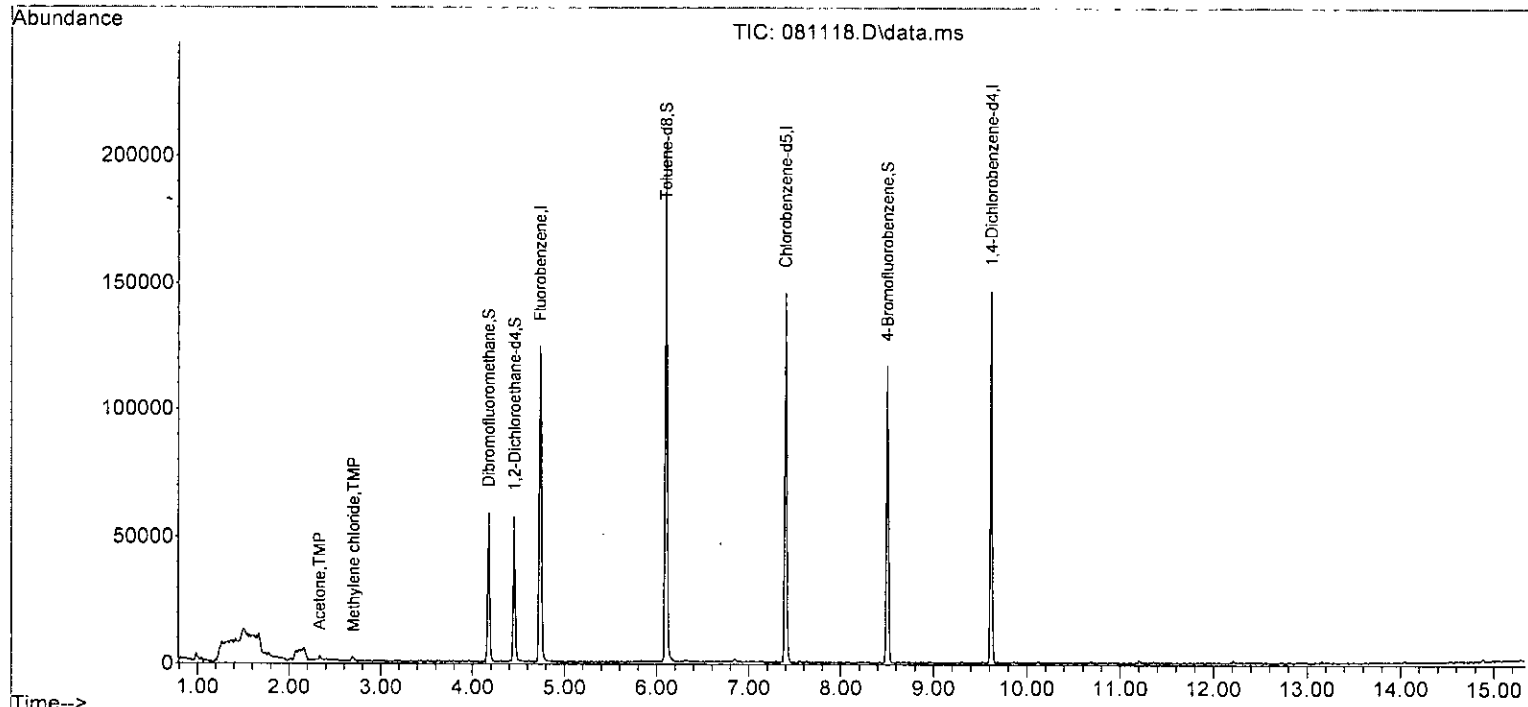
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 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

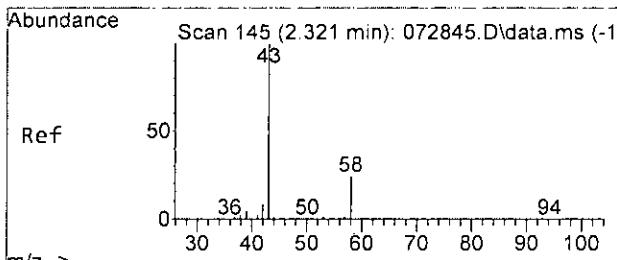
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	103469	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	73768	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36692	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27059	9.638	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	96.40%
30) 1,2-Dichloroethane-d4	4.45	102	5843	9.398	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	94.00%
35) Toluene-d8	6.10	98	107593	9.359	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.60%
57) 4-Bromofluorobenzene	8.50	95	31757	9.609	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.10%
Target Compounds						
11) Acetone	2.33	58	446	1.089	ppb #	70
14) Methylene chloride	2.70	84	843	0.334	ppb #	62
26] 1,2-Dichloroethane (EDC)	4.52	62	187	0.015	ppb	97
40] Toluene	6.16	92	63	Below Cal	#	71
45] Tetrachloroethene	6.64	164	111	0.017	ppb	98
49] Ethylbenzene	7.54	91	61	Below Cal		95
51] m,p-Xylene	7.64	106	48	Below Cal		97
-----						

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081118.D  
 Acq On : 11 Aug 2023 12:29 pm  
 Operator : MD  
 Sample : 308175-12  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

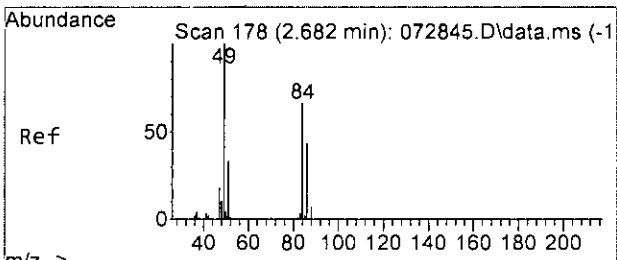
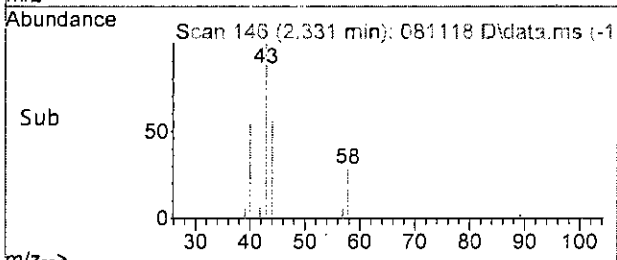
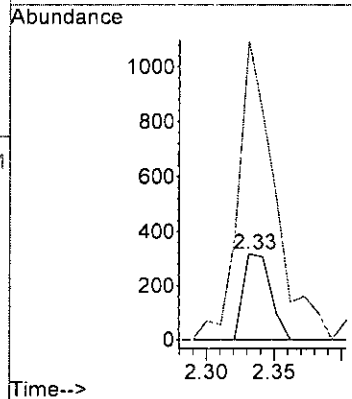
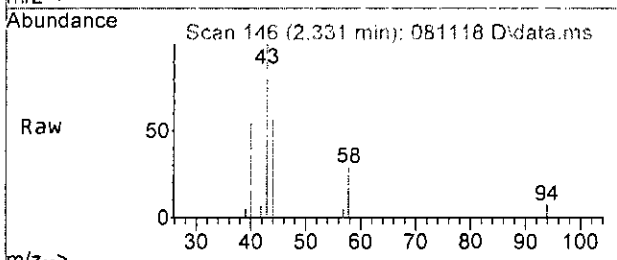
Quant Time: Aug 14 07:44:44 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth: VM040623.M





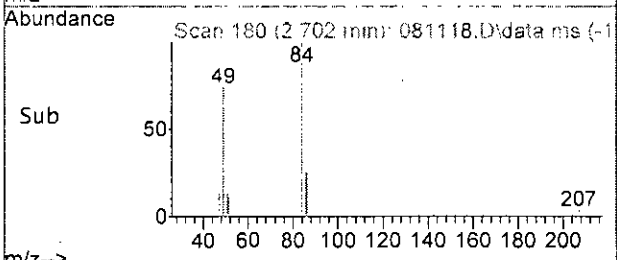
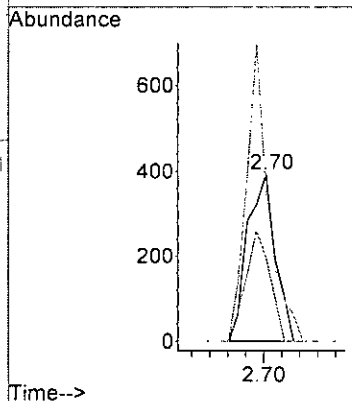
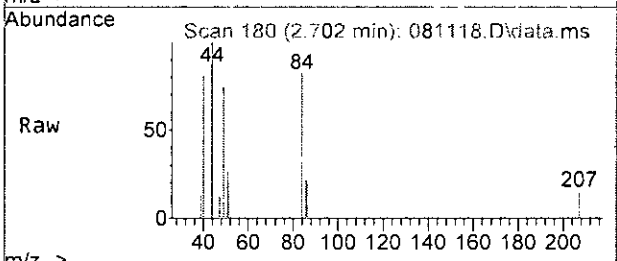
#11  
 Acetone  
 Concen: 1.089 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 081118.D  
 Acq: 11 Aug 2023 12:29 pm

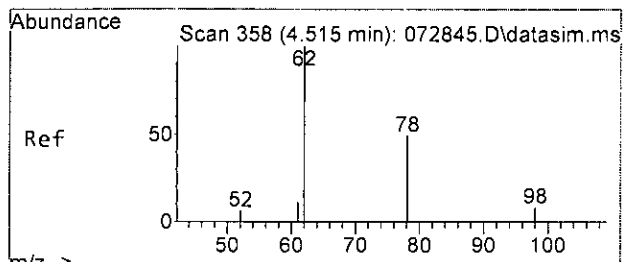
Tgt Ion: 58 Resp: 446  
 Ion Ratio Lower Upper  
 58 100  
 43 464.1 363.1 423.1#



#14  
 Methylene chloride  
 Concen: 0.334 ppb  
 RT: 2.70 min Scan# 180  
 Delta R.T. 0.020 min  
 Lab File: 081118.D  
 Acq: 11 Aug 2023 12:29 pm

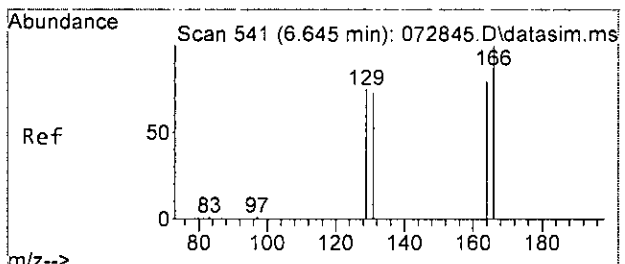
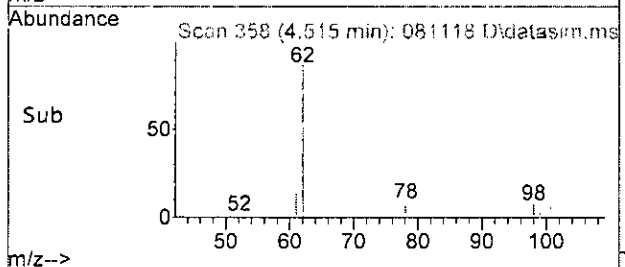
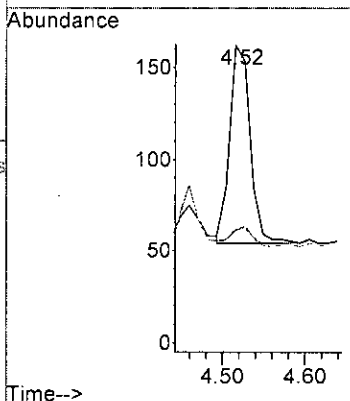
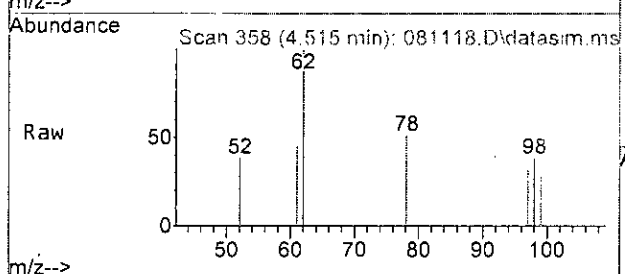
Tgt Ion: 84 Resp: 843  
 Ion Ratio Lower Upper  
 84 100  
 86 50.1 29.1 89.1  
 49 90.6 122.1 182.1#





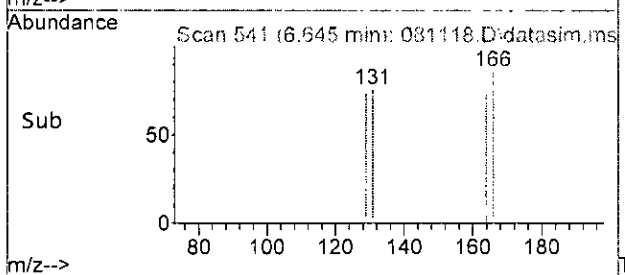
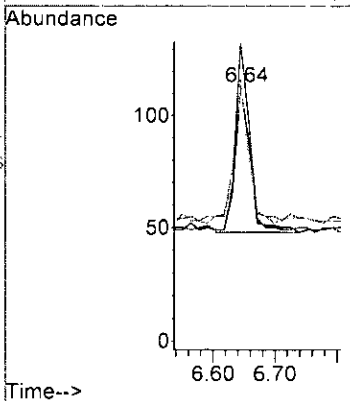
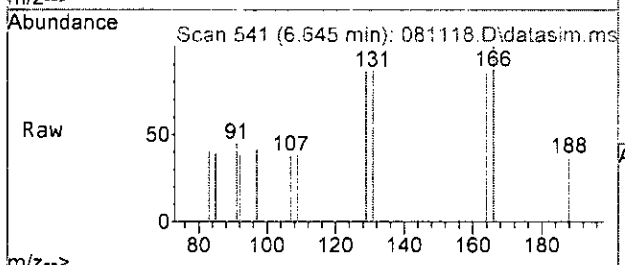
#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.015 ppb  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.000 min  
 Lab File: 081118.D  
 Acq: 11 Aug 2023 12:29 pm

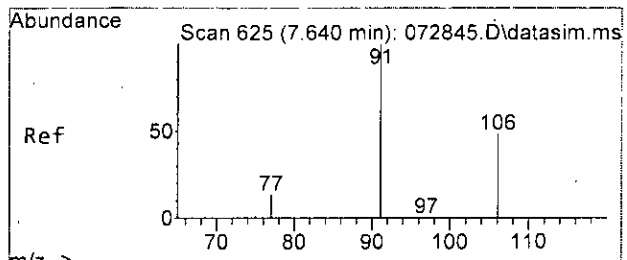
Tgt Ion	Resp	Lower	Upper
62	100		
98	8.3	0.0	37.3



#45  
 Tetrachloroethene  
 Concen: 0.017 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081118.D  
 Acq: 11 Aug 2023 12:29 pm

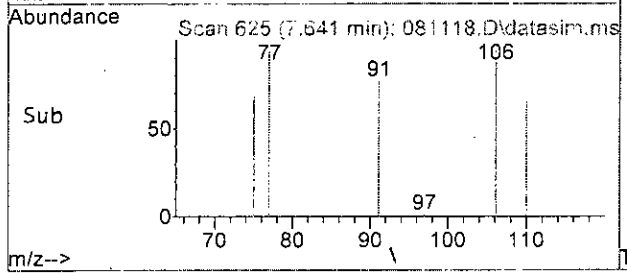
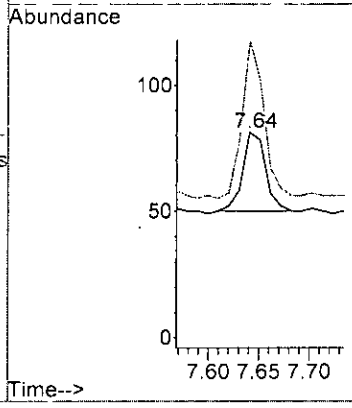
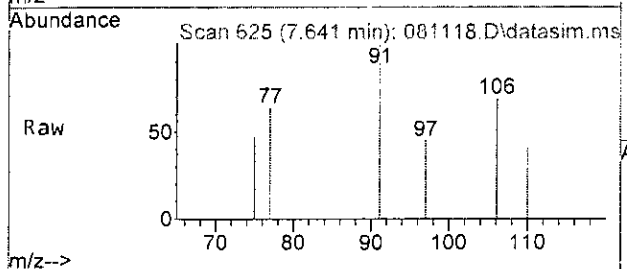
Tgt Ion	Resp	Lower	Upper
164	100		
129	93.8	60.7	120.7
131	92.3	60.4	120.4
166	129.2	99.4	159.4





#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081118.D  
 Acq: 11 Aug 2023 12:29 pm

Tgt Ion: 106 Resp: 48  
 Ion Ratio Lower Upper  
 106 100  
 91 203.2 178.3 238.3





Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081118.D  
 Acq On : 11 Aug 2023 12:29 pm  
 Operator : MD  
 Sample : 308175-12  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:44 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	103469	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	73768	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36692	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	27059	9.638	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	96.40%	
30) 1,2-Dichloroethane-d4	4.45	102	5843	9.398	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	94.00%	
35) Toluene-d8	6.10	98	107593	9.359	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.60%	
57) 4-Bromofluorobenzene	8.50	95	31757	9.609	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.10%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.26	50	3337		N.D.		
6) Vinyl chloride	0.00		0		N.D.	d	
7) Bromomethane	0.00		0		N.D.		
8) Chloroethane	0.00		0		N.D.		
9) Trichlorofluoromethane	0.00		0		N.D.		
10) 2-Propanol	0.00		0		N.D.		
11) Acetone	2.33	58	446	1.089	ppb	#	70
12) 1,1-Dichloroethene	0.00		0		N.D.	d	
13) Hexane	0.00		0		N.D.		
14) Methylene chloride	2.70	84	843	0.334	ppb	#	62
15) t-Butyl alcohol (TBA)	0.00		0		N.D.		
16) Methyl t-butyl ether (...)	0.00		0		N.D.		
17) trans-1,2-Dichloroethene	0.00		0		N.D.		
18) Diisopropyl ether (DIPE)	0.00		0		N.D.		
19) 1,1-Dichloroethane	0.00		0		N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	3.79	77	38		N.D.		
22) cis-1,2-Dichloroethene	0.00		0		N.D.		
23) Chloroform	0.00		0		N.D.		
24) 2-Butanone (MEK)	0.00		0		N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0		N.D.		
26] 1,2-Dichloroethane (EDC)	4.52	62	187	0.015	ppb		97
27) 1,1,1-Trichloroethane	0.00		0		N.D.		
28) 1,1-Dichloropropene	0.00		0		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31) Benzene	0.00		0		N.D.		
32) Trichloroethene	0.00		0		N.D.	d	
33) 1,2-Dichloropropane	0.00		0		N.D.		
34) Bromodichloromethane	0.00		0		N.D.		
36) Dibromomethane	0.00		0		N.D.		

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081118.D  
 Acq On : 11 Aug 2023 12:29 pm  
 Operator : MD  
 Sample : 308175-12  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

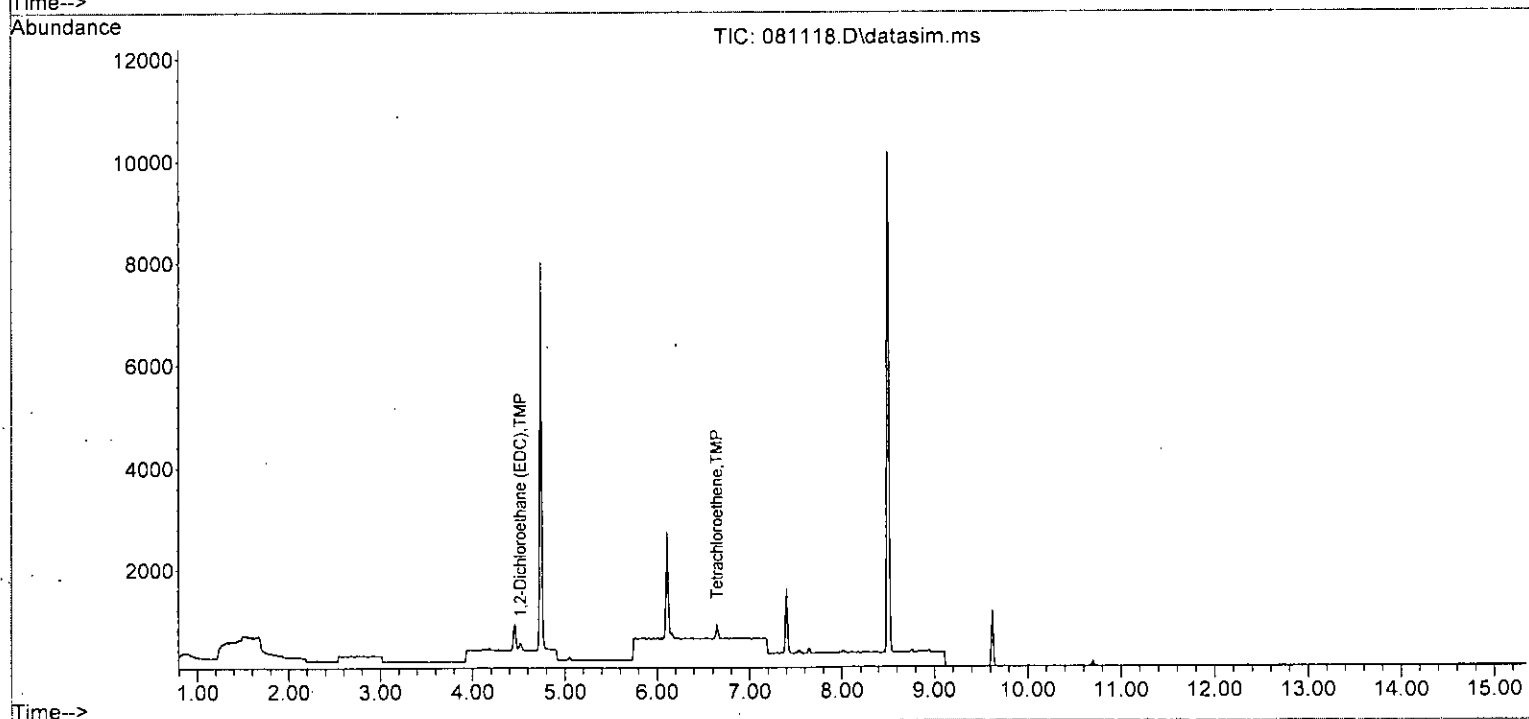
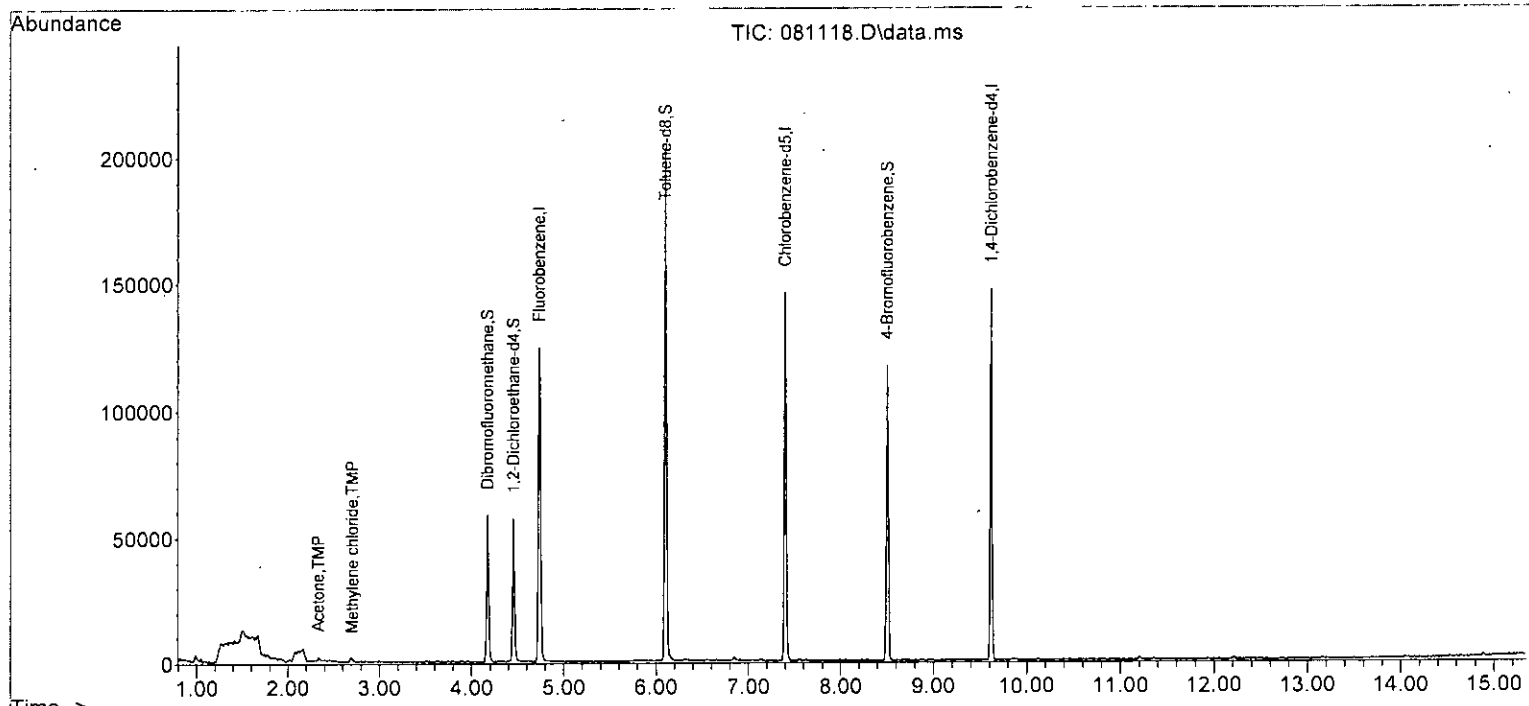
Quant Time: Aug 14 07:44:44 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.16	92	63	Below Cal	#	71
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	6.79	43	49	N.D.		
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.64	164	111	0.017	ppb	98
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
48) Chlorobenzene	0.00		0	N.D.		
49] Ethylbenzene	7.54	91	61	Below Cal		95
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.64	106	48	Below Cal		97
52) o-Xylene	0.00		0	N.D.		
53) Styrene	0.00		0	N.D.		
54) Isopropylbenzene	0.00		0	N.D.		
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	0.00		0	N.D.		
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.		
63) 2-Chlorotoluene	0.00		0	N.D.		
64) 4-Chlorotoluene	0.00		0	N.D.		
65) tert-Butylbenzene	0.00		0	N.D.		
66) 1,2,4-Trimethylbenzene	9.29	105	55	N.D.		
67) sec-Butylbenzene	9.47	105	27	N.D.		
68) p-Isopropyltoluene	9.60	119	22	N.D.		
69) 1,3-Dichlorobenzene	0.00		0	N.D.		
70) 1,4-Dichlorobenzene	0.00		0	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.83	128	73	N.D.		
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081118.D  
 Acq On : 11 Aug 2023 12:29 pm  
 Operator : MD  
 Sample : 308175-12  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

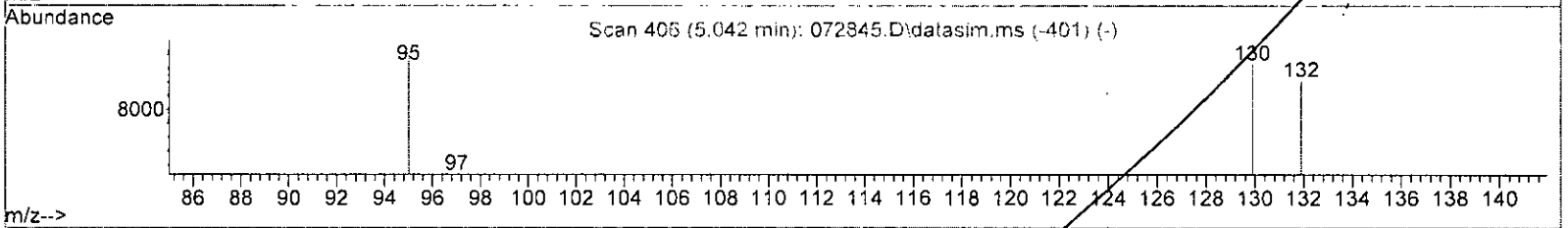
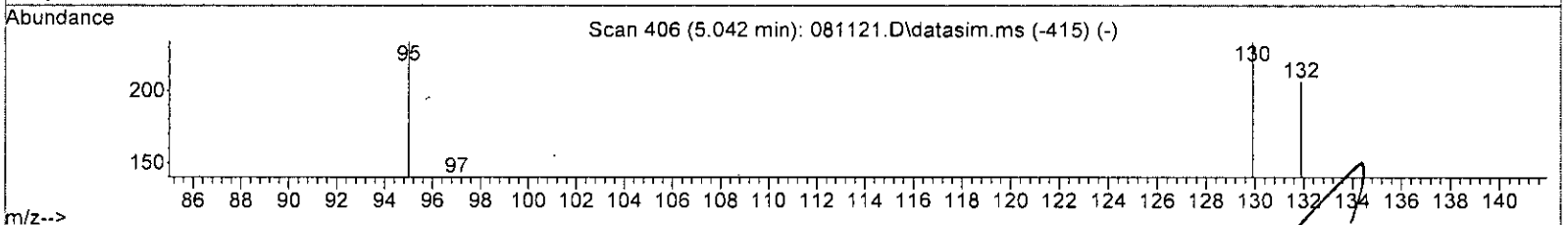
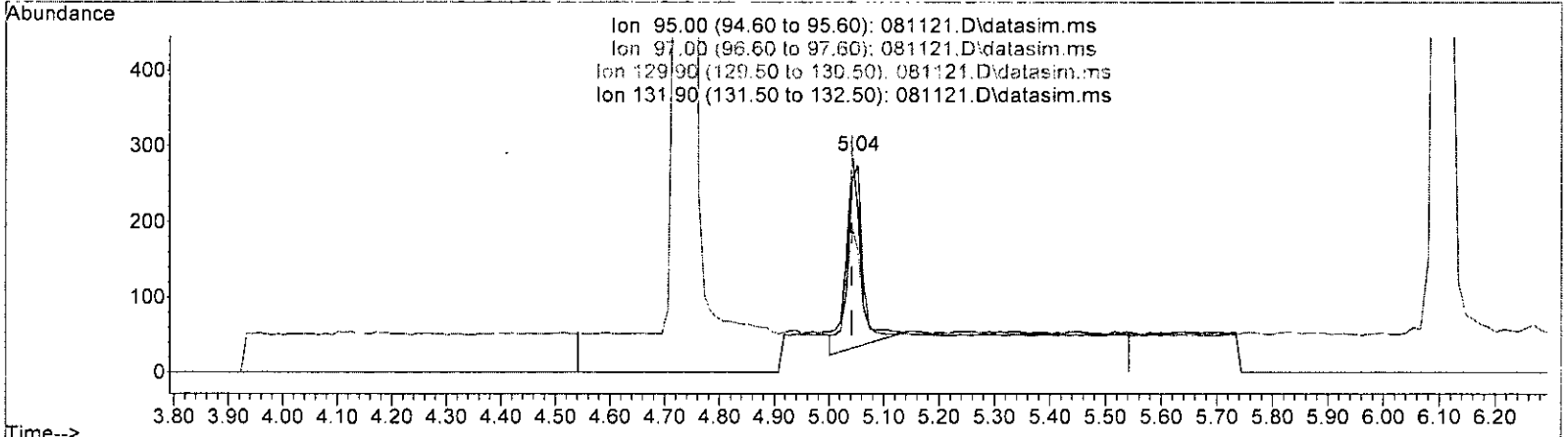
Quant Time: Aug 14 07:44:44 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081121.D  
 Acq On : 11 Aug 2023 01:38 pm  
 Operator : MD  
 Sample : 308175-13  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:56 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081121.D\data.ms

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.160 ppb

response 471

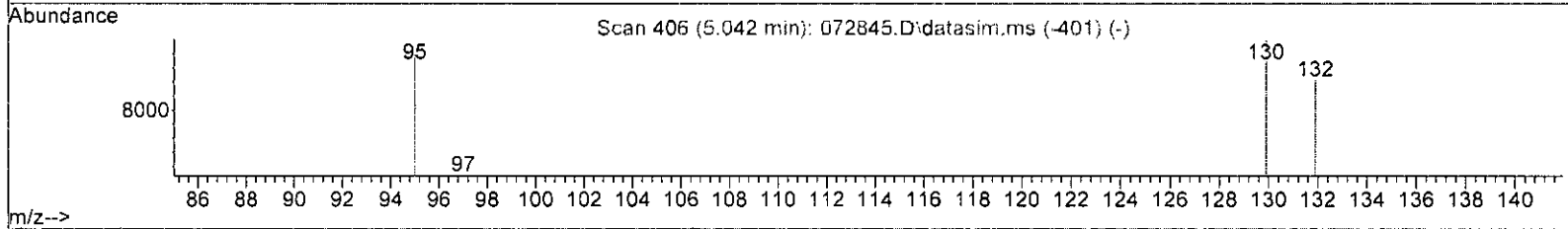
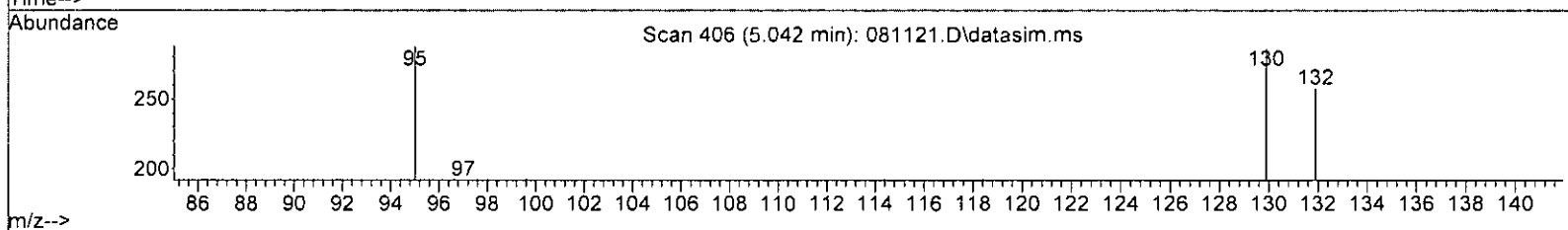
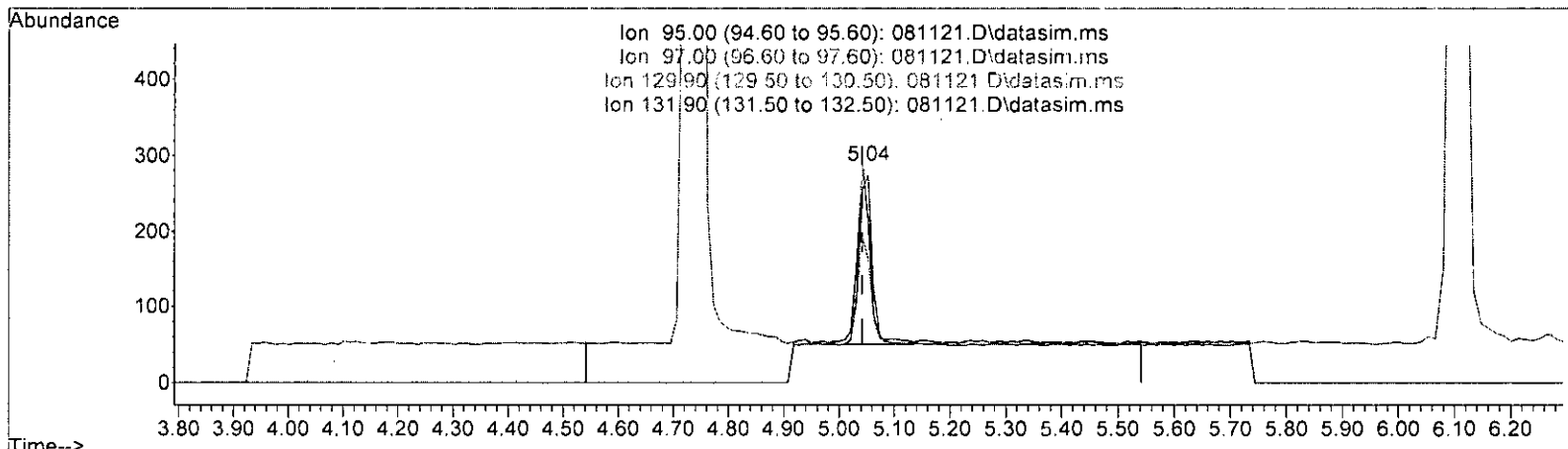
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	59.83
129.90	98.60	100.43
131.90	86.60	88.89

*m 8/14*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081121.D  
 Acq On : 11 Aug 2023 01:38 pm  
 Operator : MD  
 Sample : 308175-13  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:56 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



TIC: 081121.D\data.ms *in 8/14*

(32) Trichloroethene (TMP)

5.042min (+ 0.000) 0.125 ppb m

response	377	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	60.80	66.90
129.90	98.60	99.30
131.90	86.60	89.55

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081121.D  
 Acq On : 11 Aug 2023 01:38 pm  
 Operator : MD  
 Sample : 308175-13  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

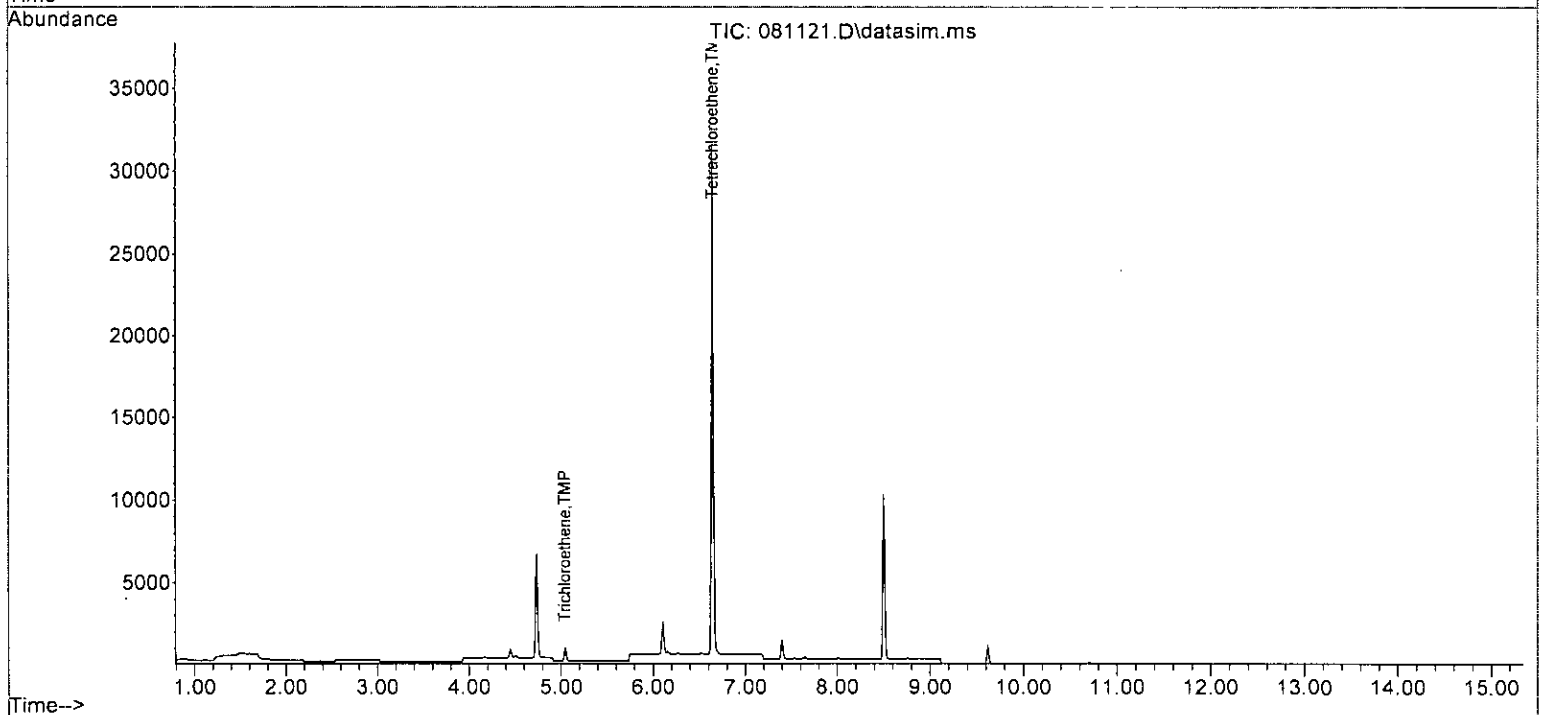
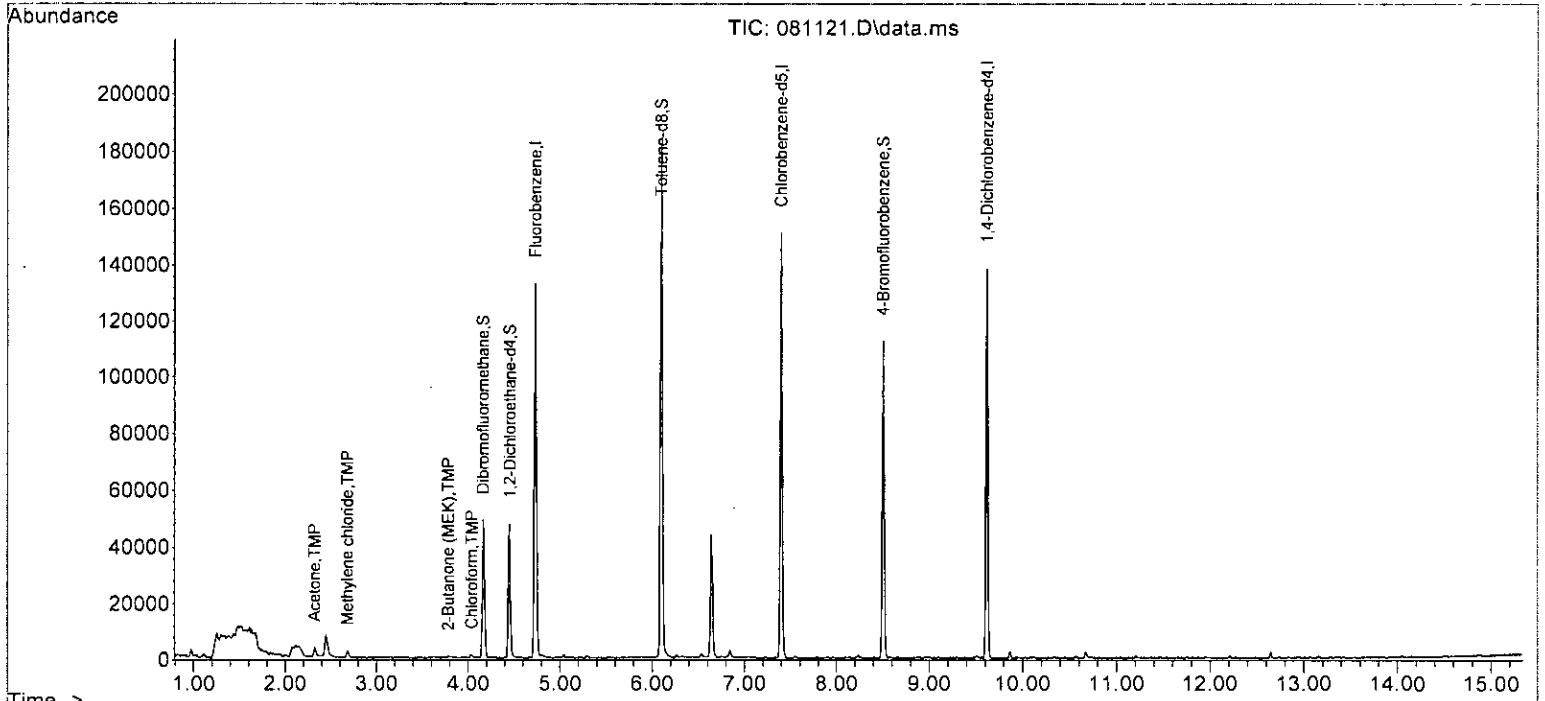
Quant Time: Aug 14 07:44:56 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

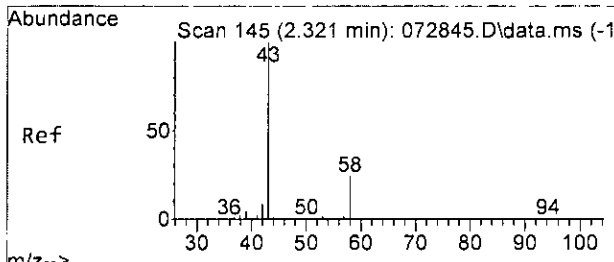
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	90795	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	70961	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	34954	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.16	113	25147	10.207	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.10%
30) 1,2-Dichloroethane-d4	4.45	102	5481	10.046	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	100.50%
35) Toluene-d8	6.10	98	99161	9.830	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	98.30%
57) 4-Bromofluorobenzene	8.50	95	30373	9.647	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.50%
Target Compounds						
					Qvalue	
11) Acetone	2.32	58	809	2.251	ppb #	61
14) Methylene chloride	2.68	84	887	0.401	ppb	90
23) Chloroform	4.04	83	727	0.176	ppb	97
24) 2-Butanone (MEK)	3.78	43	846	0.484	ppb	66
26] 1,2-Dichloroethane (EDC)	4.52	62	89	Below Cal		95
32] Trichloroethene	5.04	95	377m	0.125	ppb	
40] Toluene	6.16	92	89	Below Cal		88
45] Tetrachloroethene	6.64	164	10553	3.797	ppb	98
49] Ethylbenzene	7.53	91	65	Below Cal		95
51] m,p-Xylene	7.64	106	54	Below Cal		88
52] o-Xylene	8.01	106	30	Below Cal	#	73
-----						

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081121.D  
 Acq On : 11 Aug 2023 01:38 pm  
 Operator : MD  
 Sample : 308175-13  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

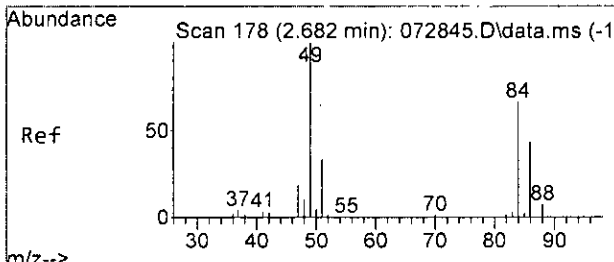
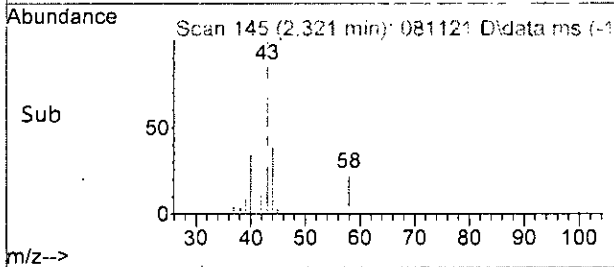
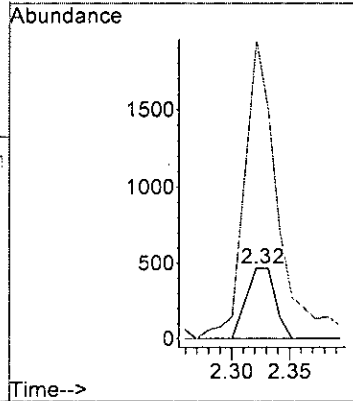
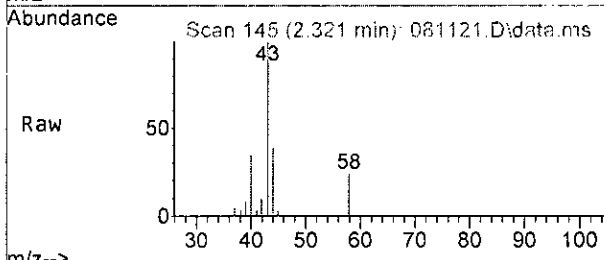
Quant Time: Aug 14 07:44:56 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M





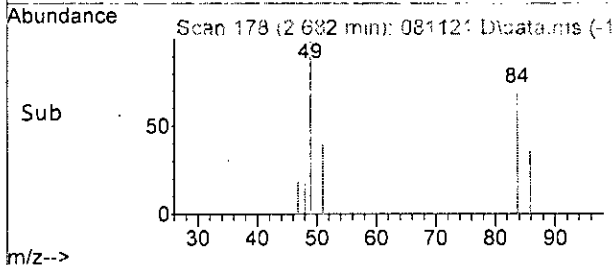
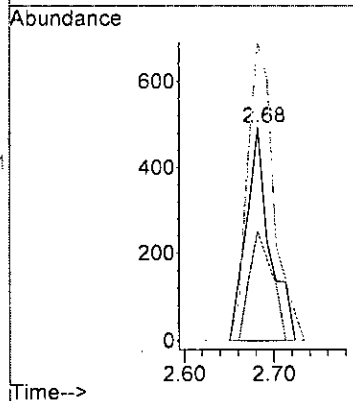
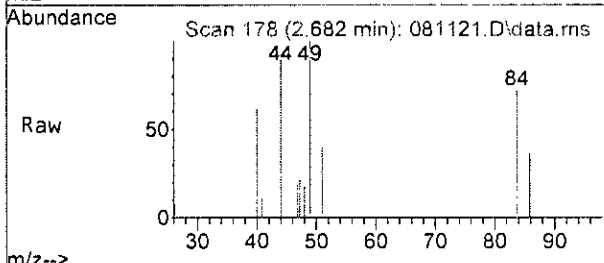
#11  
 Acetone  
 Concen: 2.251 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. 0.000 min  
 Lab File: 081121.D  
 Acq: 11 Aug 2023 01:38 pm

Tgt Ion: -58 Resp: 809  
 Ion Ratio Lower Upper  
 58 100  
 43 483.7 363.1 423.1#

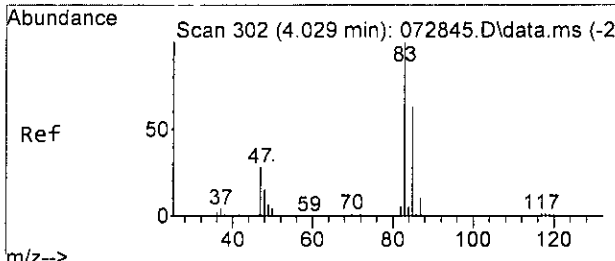


#14  
 Methylene chloride  
 Concen: 0.401 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081121.D  
 Acq: 11 Aug 2023 01:38 pm

Tgt Ion: 84 Resp: 887  
 Ion Ratio Lower Upper  
 84 100  
 86 50.9 29.1 89.1  
 49 139.8 122.1 182.1



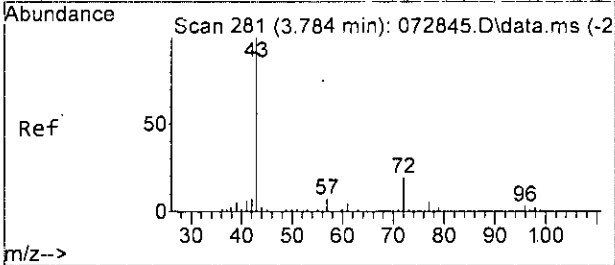
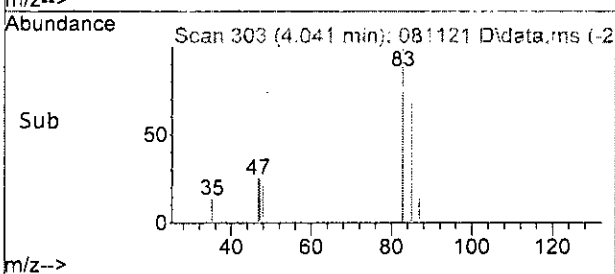
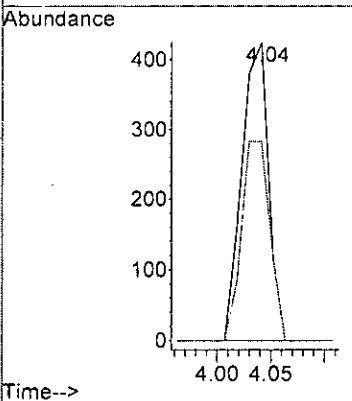
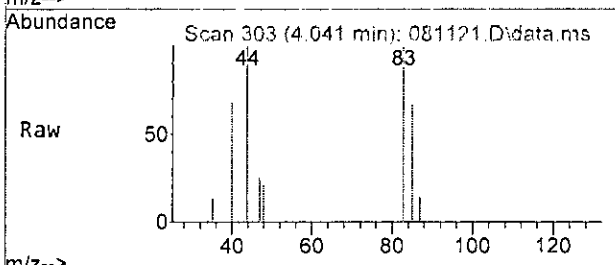




#23  
 Chloroform  
 Concen: 0.176 ppb  
 RT: 4.04 min Scan# 303  
 Delta R.T. 0.012 min  
 Lab File: 081121.D  
 Acq: 11 Aug 2023 01:38 pm

Tgt Ion: 83 Resp: 727

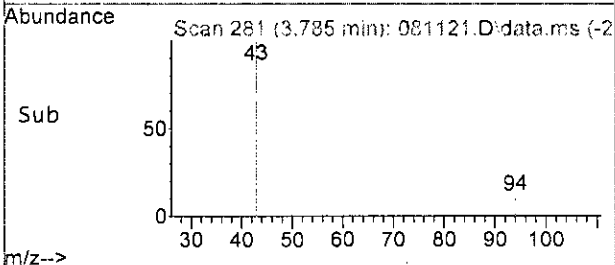
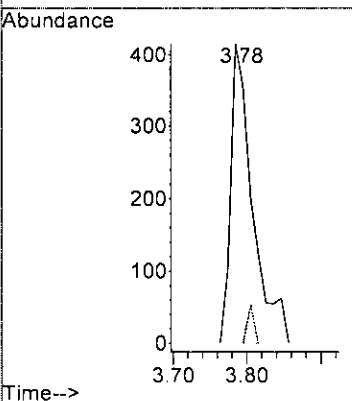
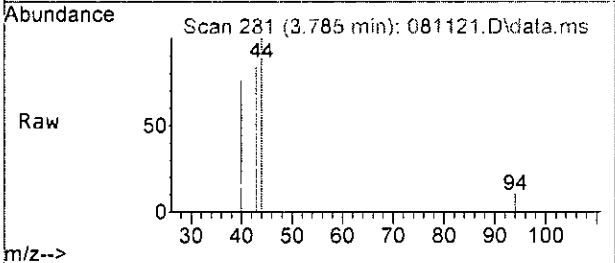
Ion	Ratio	Lower	Upper
83	100		
85	66.7	39.2	99.2

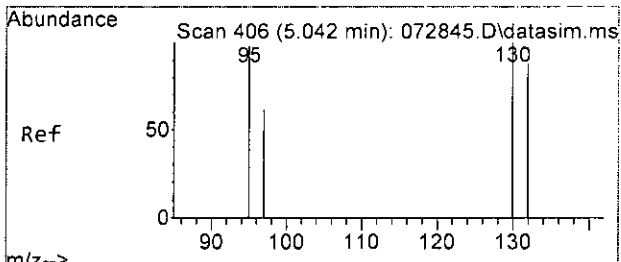


#24  
 2-Butanone (MEK)  
 Concen: 0.484 ppb  
 RT: 3.78 min Scan# 281  
 Delta R.T. 0.001 min  
 Lab File: 081121.D  
 Acq: 11 Aug 2023 01:38 pm

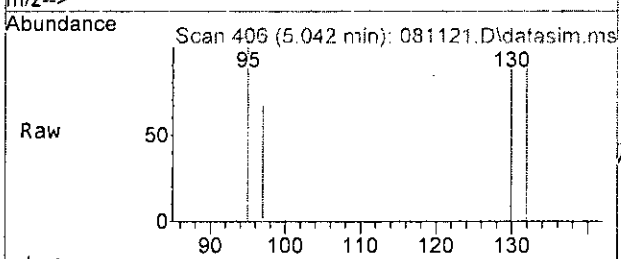
Tgt Ion: 43 Resp: 846

Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	47.3
57	0.0	0.0	27.2



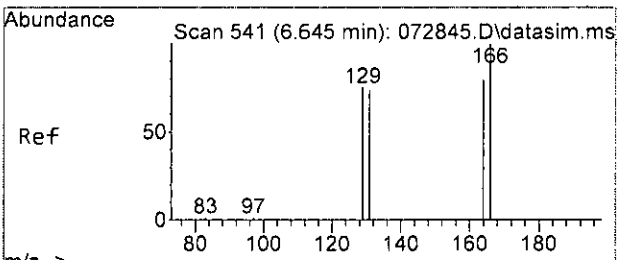
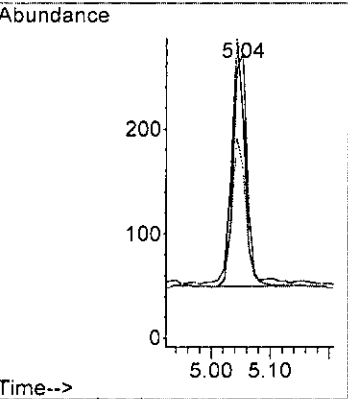
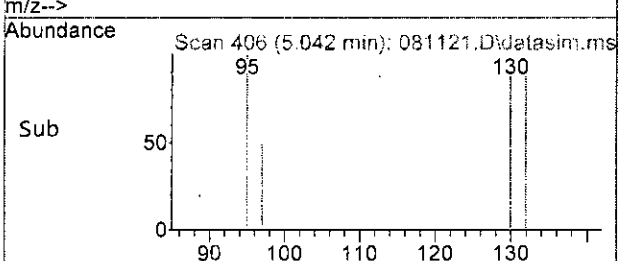


#32  
 Trichloroethene  
 Concen: 0.125 ppb m  
 RT: 5.04 min Scan# 406  
 Delta R.T. 0.000 min  
 Lab File: 081121.D  
 Acq: 11 Aug 2023 01:38 pm

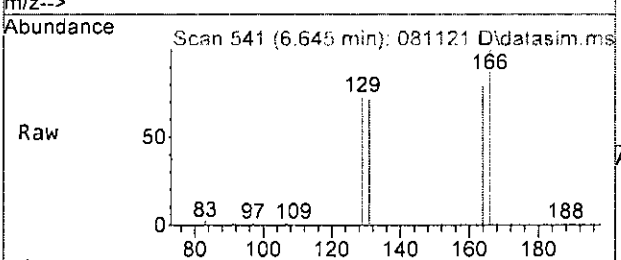


Tgt Ion: 95 Resp: 377

Ion	Ratio	Lower	Upper
95	100		
97	66.9	30.8	90.8
130	99.3	68.6	128.6
132	89.5	56.6	116.6

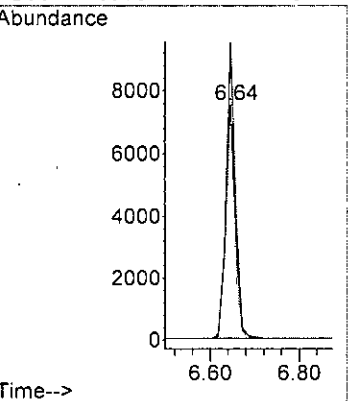
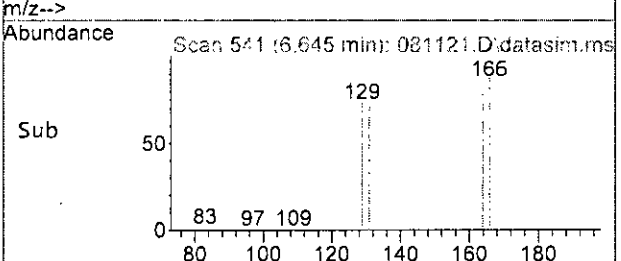


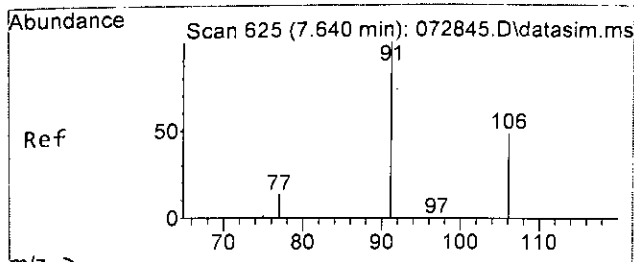
#45  
 Tetrachloroethene  
 Concen: 3.797 ppb  
 RT: 6.64 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 081121.D  
 Acq: 11 Aug 2023 01:38 pm



Tgt Ion: 164 Resp: 10553

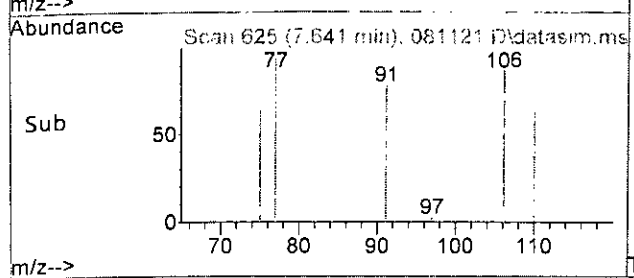
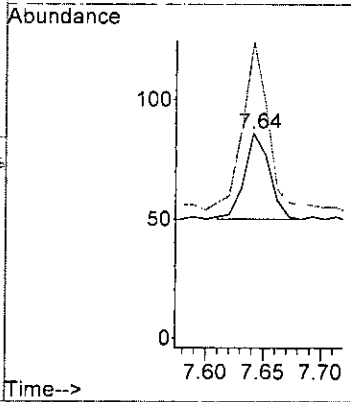
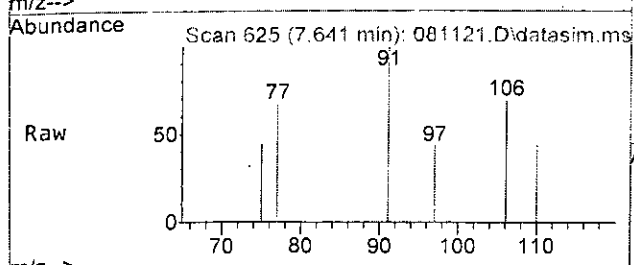
Ion	Ratio	Lower	Upper
164	100		
129	92.7	60.7	120.7
131	89.7	60.4	120.4
166	126.5	99.4	159.4





#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081121.D  
 Acq: 11 Aug 2023 01:38 pm

Tgt Ion: 106 Resp: 54  
 Ion Ratio Lower Upper  
 106 100  
 91 188.9 178.3 238.3



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081121.D  
 Acq On : 11 Aug 2023 01:38 pm  
 Operator : MD  
 Sample : 308175-13  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:56 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	90795	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	70961	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	34954	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.16	113	25147	10.207	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.10%	
30) 1,2-Dichloroethane-d4	4.45	102	5481	10.046	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	100.50%	
35) Toluene-d8	6.10	98	99161	9.830	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	98.30%	
57) 4-Bromofluorobenzene	8.50	95	30373	9.647	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	96.50%	
Target Compounds							
							Qvalue
2) Ethanol	2.32	45	109	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	4977	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.32	45	109	No Calib	#		
11) Acetone	2.32	58	809	2.251	ppb #	61	
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	3.15	57	76	N.D.			
14) Methylene chloride	2.68	84	887	0.401	ppb	90	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	4.04	83	727	0.176	ppb	97	
24) 2-Butanone (MEK)	3.78	43	846	0.484	ppb	66	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	89	Below Cal		95	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	4.49	78	134	N.D.			
32] Trichloroethene	5.04	95	377m	0.125	ppb		
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081121.D  
 Acq On : 11 Aug 2023 01:38 pm  
 Operator : MD  
 Sample : 308175-13  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

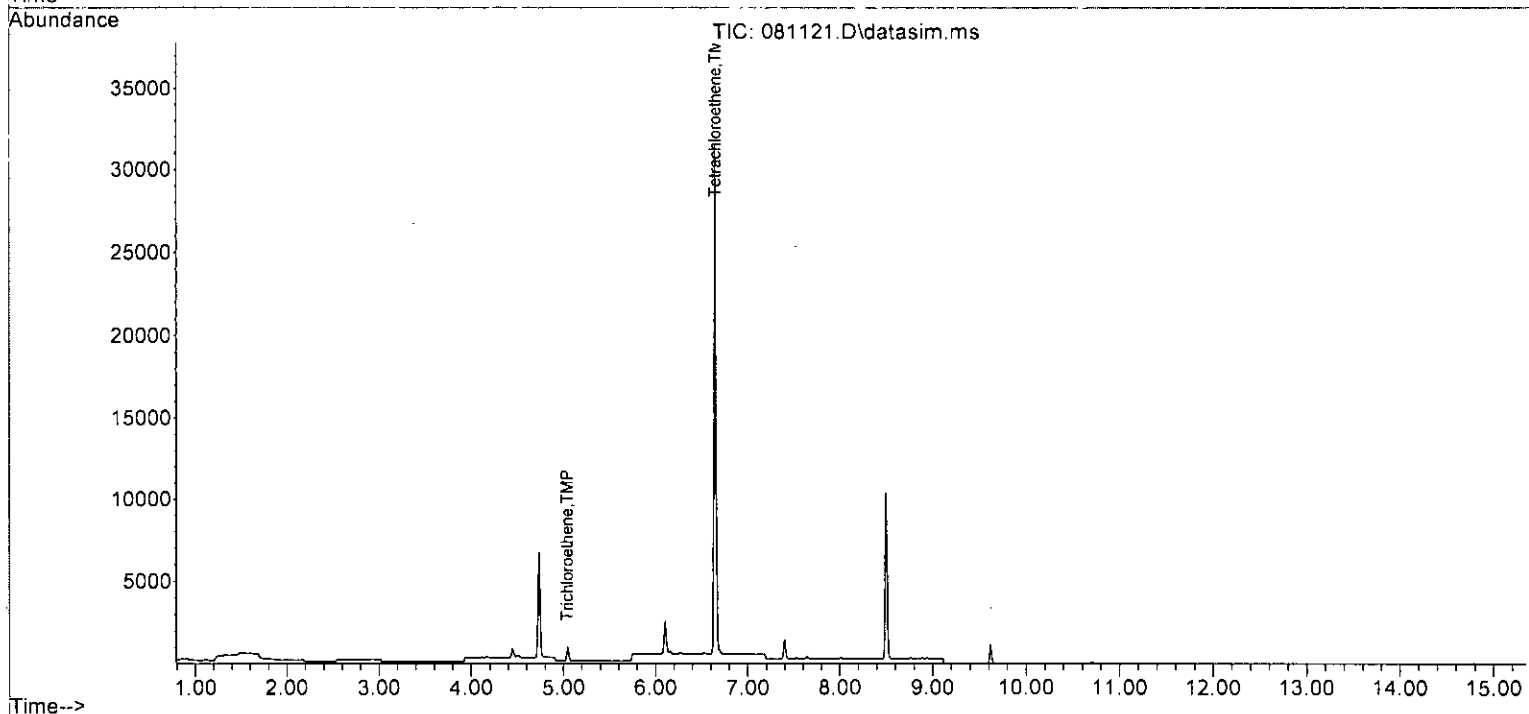
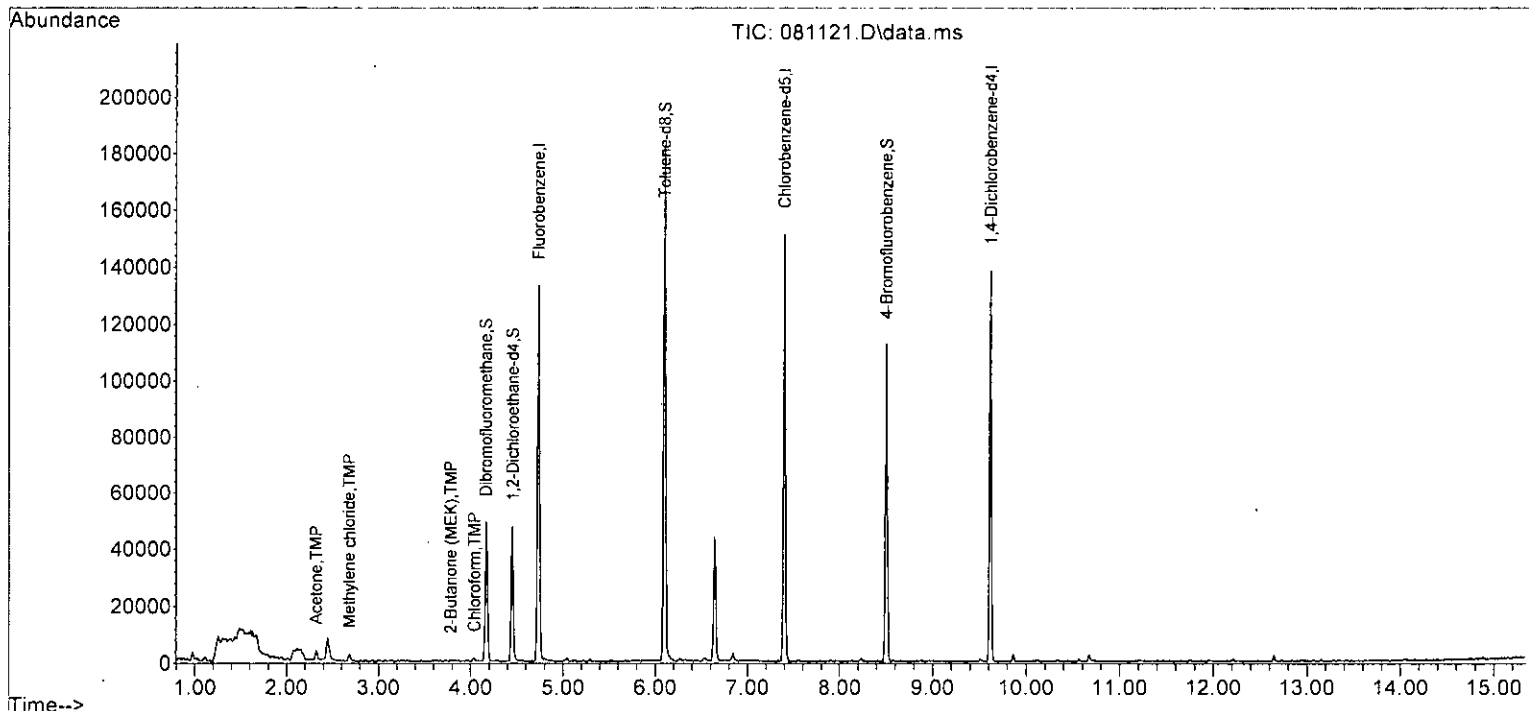
Quant Time: Aug 14 07:44:56 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	89	Below Cal		88
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.52	83	97		N.D.	
43) 2-Hexanone	6.77	43	211		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.64	164	10553	3.797 ppb		98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.53	91	65	Below Cal		95
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.64	106	54	Below Cal		88
52] o-Xylene	8.01	106	30	Below Cal	#	73
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.75	91	37		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	
63) 2-Chlorotoluene	8.75	91	37		N.D.	
64) 4-Chlorotoluene	8.75	91	37		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	24		N.D.	
67) sec-Butylbenzene	9.29	105	24		N.D.	
68) p-Isopropyltoluene	9.60	119	169		N.D.	
69) 1,3-Dichlorobenzene	9.63	146	24		N.D.	
70) 1,4-Dichlorobenzene	9.63	146	24		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.60	180	25		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
Data File : 081121.D  
Acq On : 11 Aug 2023 01:38 pm  
Operator : MD  
Sample : 308175-13  
Misc : water  
AL5 Vial : 14 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Aug 14 07:44:56 2023  
Quant Method : Y:\Methods\Inst13\072823vms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Sat Jul 29 09:22:43 2023  
Response via : Initial Calibration  
DataAcq Meth:VM040623.M



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081116.D  
 Acq On : 11 Aug 2023 11:43 am  
 Operator : MD  
 Sample : 308175-14  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

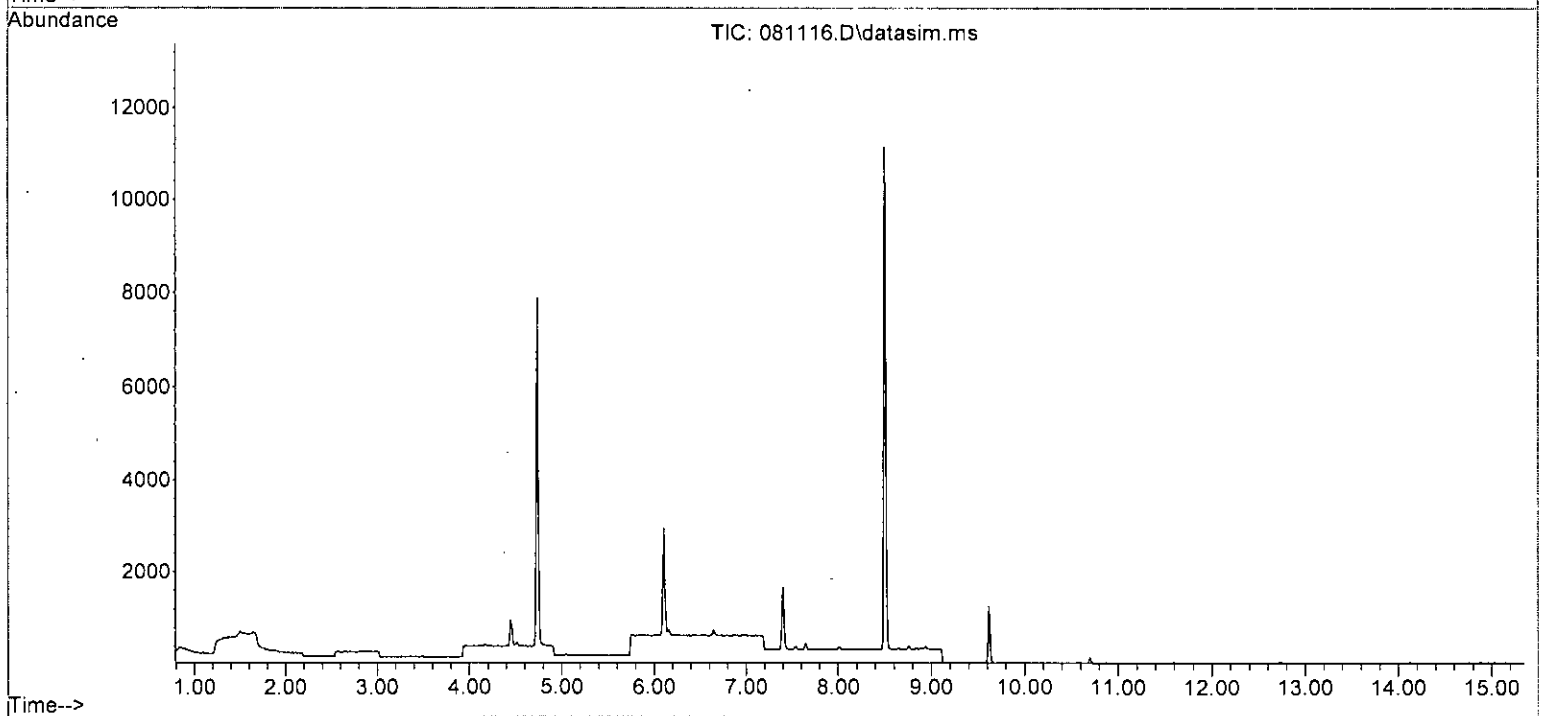
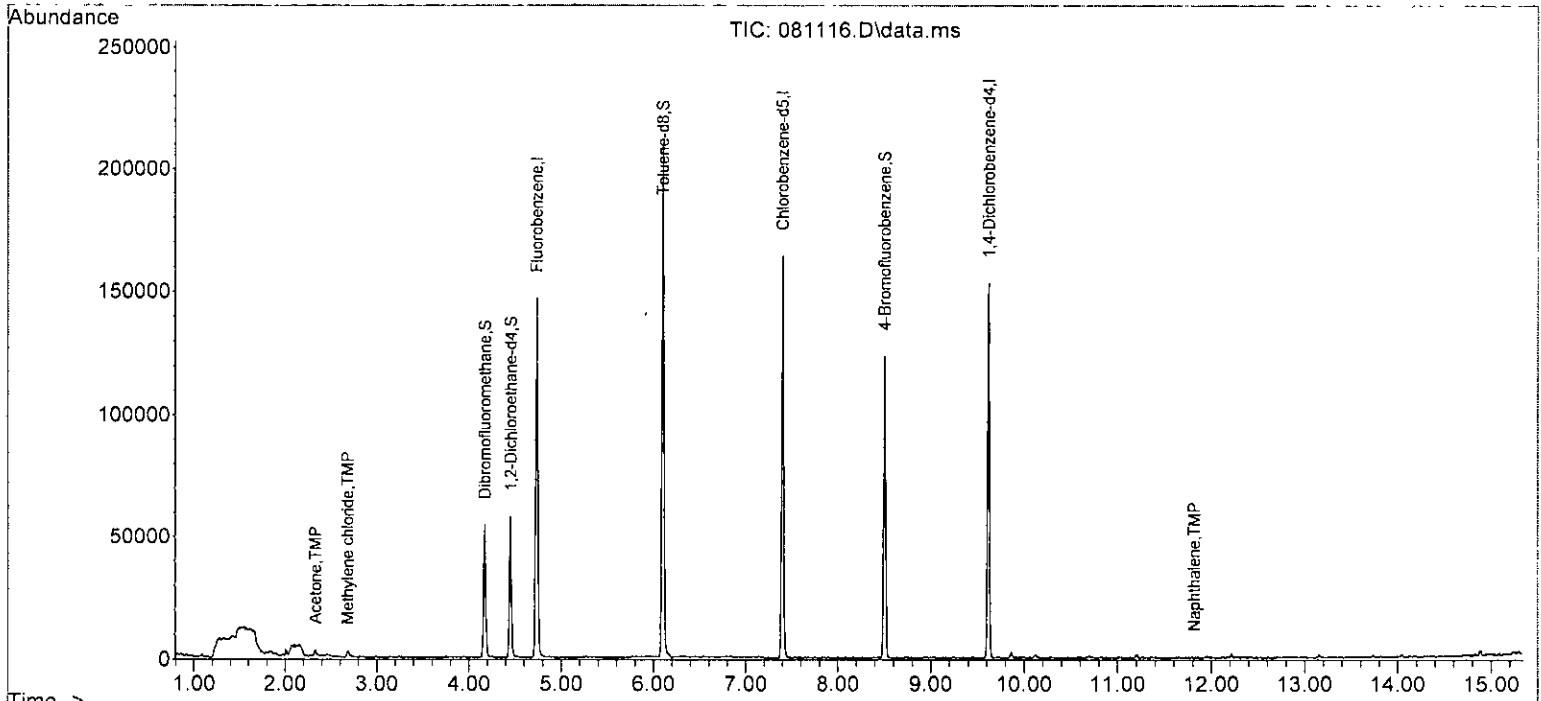
Quant Time: Aug 14 07:44:36 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	110551	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	77625	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	38722	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	27206	9.069	ppb	0.01
Spiked Amount	10.000	Range	50 - 150	Recovery	=	90.70%
30) 1,2-Dichloroethane-d4	4.45	102	6178	9.300	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	93.00%
35) Toluene-d8	6.10	98	111338	9.065	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	90.60%
57) 4-Bromofluorobenzene	8.50	95	33828	9.699	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	97.00%
Target Compounds						
						Qvalue
11) Acetone	2.33	58	512	1.170	ppb	# 42
14) Methylene chloride	2.68	84	1110	0.412	ppb	94
26] 1,2-Dichloroethane (EDC)	4.52	62	77	Below Cal		99
40] Toluene	6.16	92	64	Below Cal		91
45] Tetrachloroethene	6.64	164	48	Below Cal		96
49] Ethylbenzene	7.54	91	68	Below Cal		99
51] m,p-Xylene	7.64	106	68	Below Cal		83
52] o-Xylene	8.01	106	27	Below Cal		81
75) Naphthalene	11.82	128	193	0.023	ppb	68

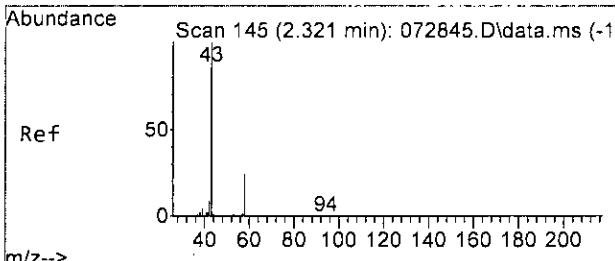
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081116.D  
 Acq On : 11 Aug 2023 11:43 am  
 Operator : MD  
 Sample : 308175-14  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:36 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

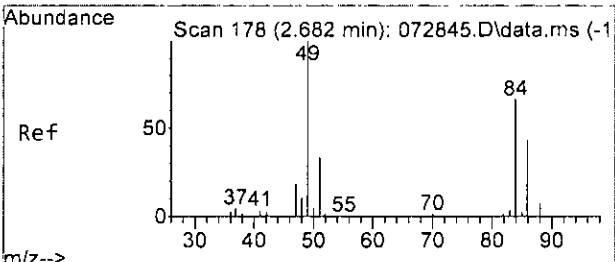
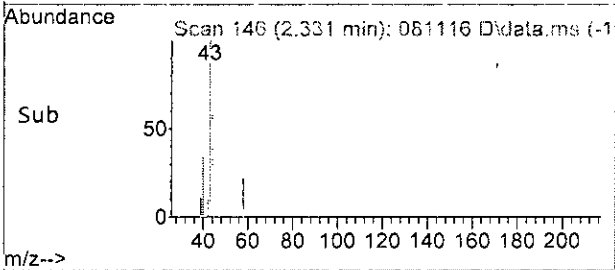
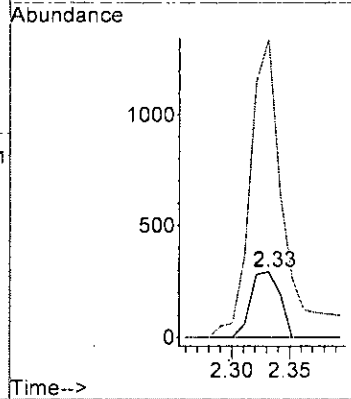
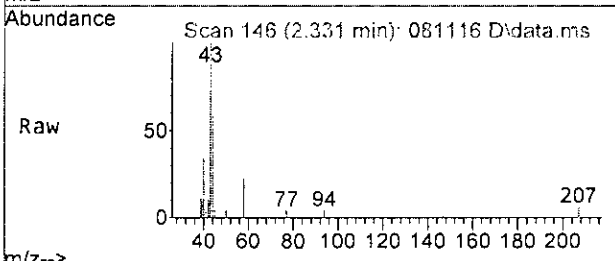






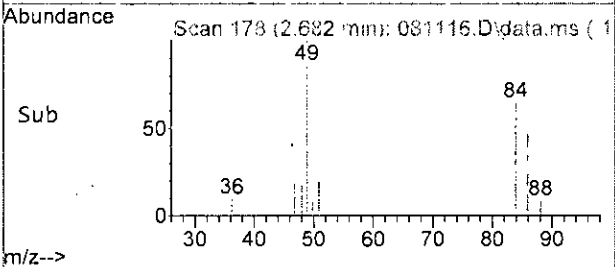
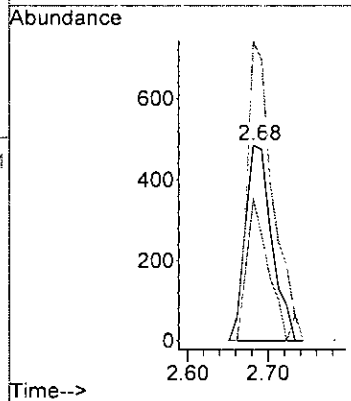
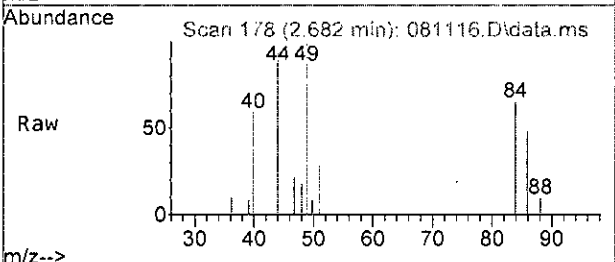
#11  
 Acetone  
 Concen: 1.170 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 081116.D  
 Acq: 11 Aug 2023 11:43 am

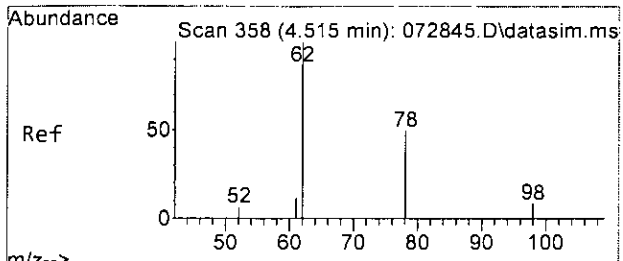
Tgt Ion: 58 Resp: 512  
 Ion Ratio Lower Upper  
 58 100  
 43 528.5 363.1 423.1#



#14  
 Methylene chloride  
 Concen: 0.412 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 081116.D  
 Acq: 11 Aug 2023 11:43 am

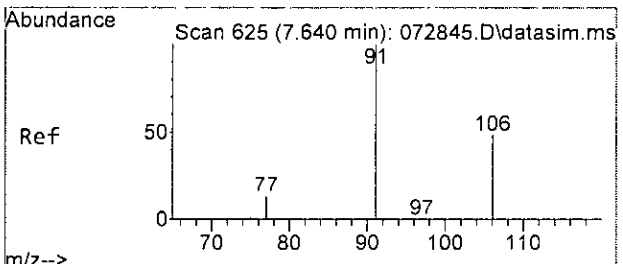
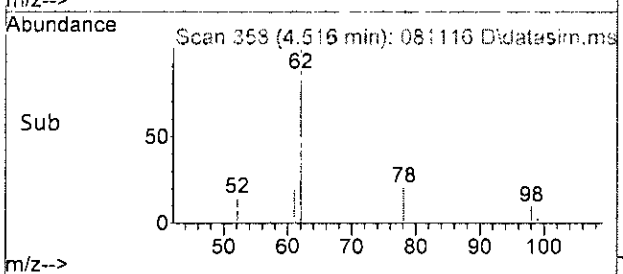
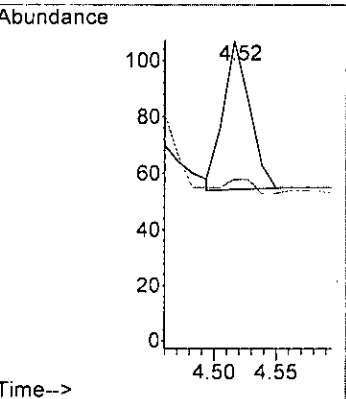
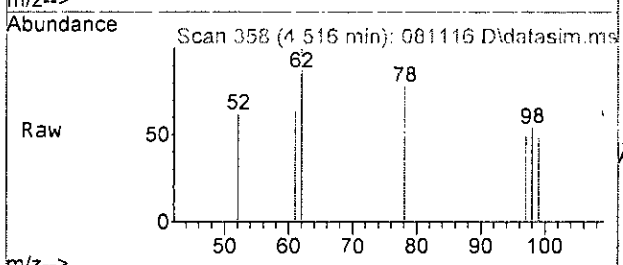
Tgt Ion: 84 Resp: 1110  
 Ion Ratio Lower Upper  
 84 100  
 86 73.0 29.1 89.1  
 49 153.0 122.1 182.1





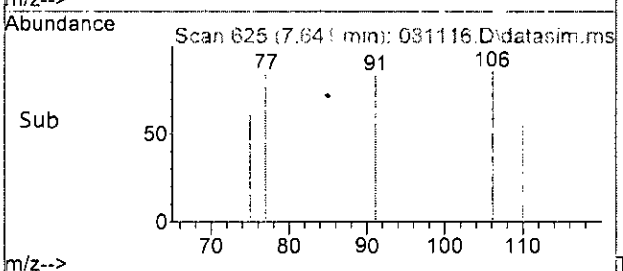
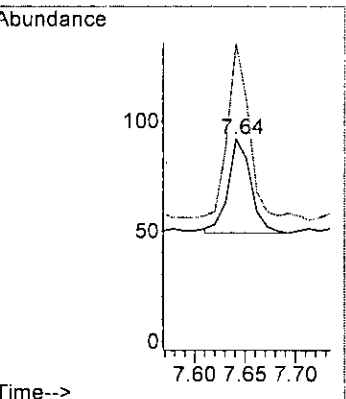
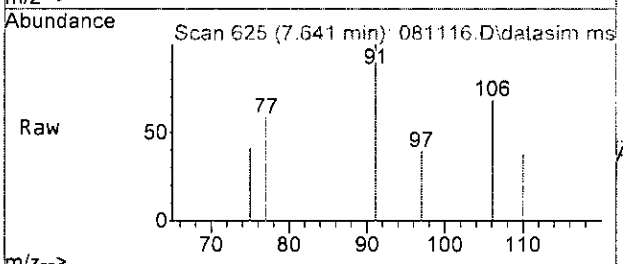
#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.52 min Scan# 358  
 Delta R.T. 0.001 min  
 Lab File: 081116.D  
 Acq: 11 Aug 2023 11:43 am

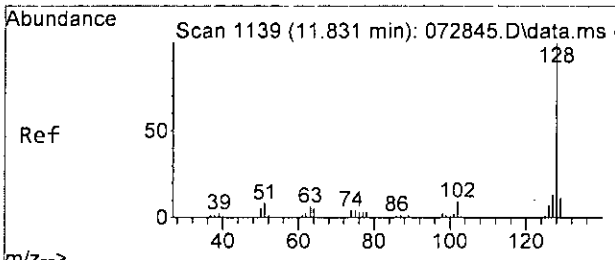
Tgt Ion: 62 Resp: 77  
 Ion Ratio Lower Upper  
 62 100  
 98 7.7 0.0 37.3



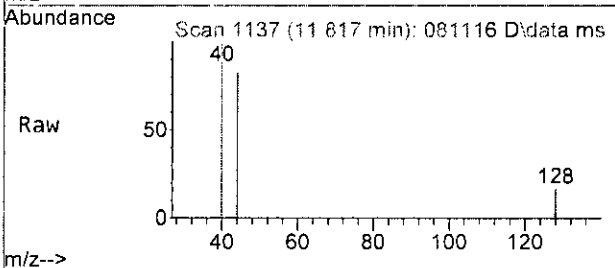
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.64 min Scan# 625  
 Delta R.T. 0.001 min  
 Lab File: 081116.D  
 Acq: 11 Aug 2023 11:43 am

Tgt Ion: 106 Resp: 68  
 Ion Ratio Lower Upper  
 106 100  
 91 181.4 178.3 238.3



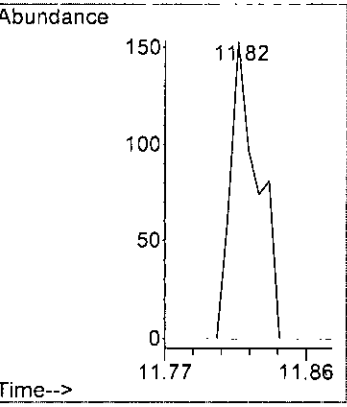
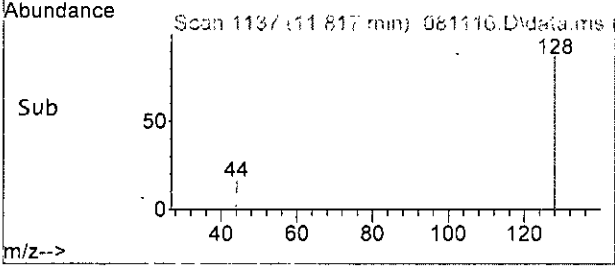


#75  
 Naphthalene  
 Concen: 0.023 ppb  
 RT: 11.82 min Scan# 1137  
 Delta R.T. -0.014 min  
 Lab File: 081116.D  
 Acq: 11 Aug 2023 11:43 am



Tgt Ion: 128 Resp: 193

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	40.8
127	0.0	0.0	43.7



Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081116.D  
 Acq On : 11 Aug 2023 11:43 am  
 Operator : MD  
 Sample : 308175-14  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:36 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	110551	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	77625	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	38722	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	27206	9.069	ppb	0.01	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	90.70%	
30) 1,2-Dichloroethane-d4	4.45	102	6178	9.300	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	93.00%	
35) Toluene-d8	6.10	98	111338	9.065	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	90.60%	
57) 4-Bromofluorobenzene	8.50	95	33828	9.699	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	97.00%	
Target Compounds							
							Qvalue
2) Ethanol	2.32	45	276	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.28	50	854	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	1.65	64	254	N.D.			
9) Trichlorofluoromethane	1.85	101	105	N.D.			
10) 2-Propanol	2.32	45	276	No Calib #			
11) Acetone	2.33	58	512	1.170	ppb #	42	
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	1110	0.412	ppb	94	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.80	77	32	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.80	43	197	N.D.			
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	77	Below Cal		99	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	0.00		0	N.D.			
32) Trichloroethene	0.00		0	N.D. d			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081116.D  
 Acq On : 11 Aug 2023 11:43 am  
 Operator : MD  
 Sample : 308175-14  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

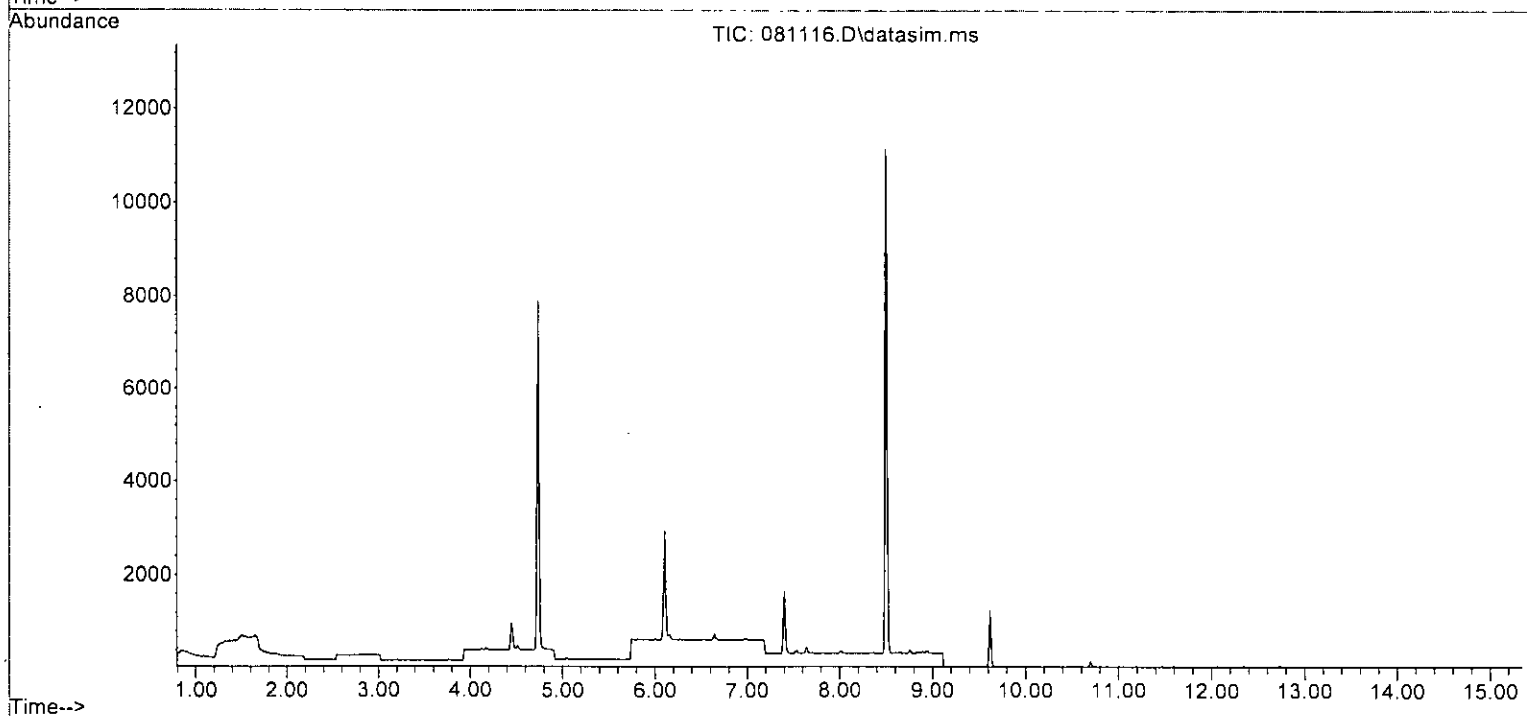
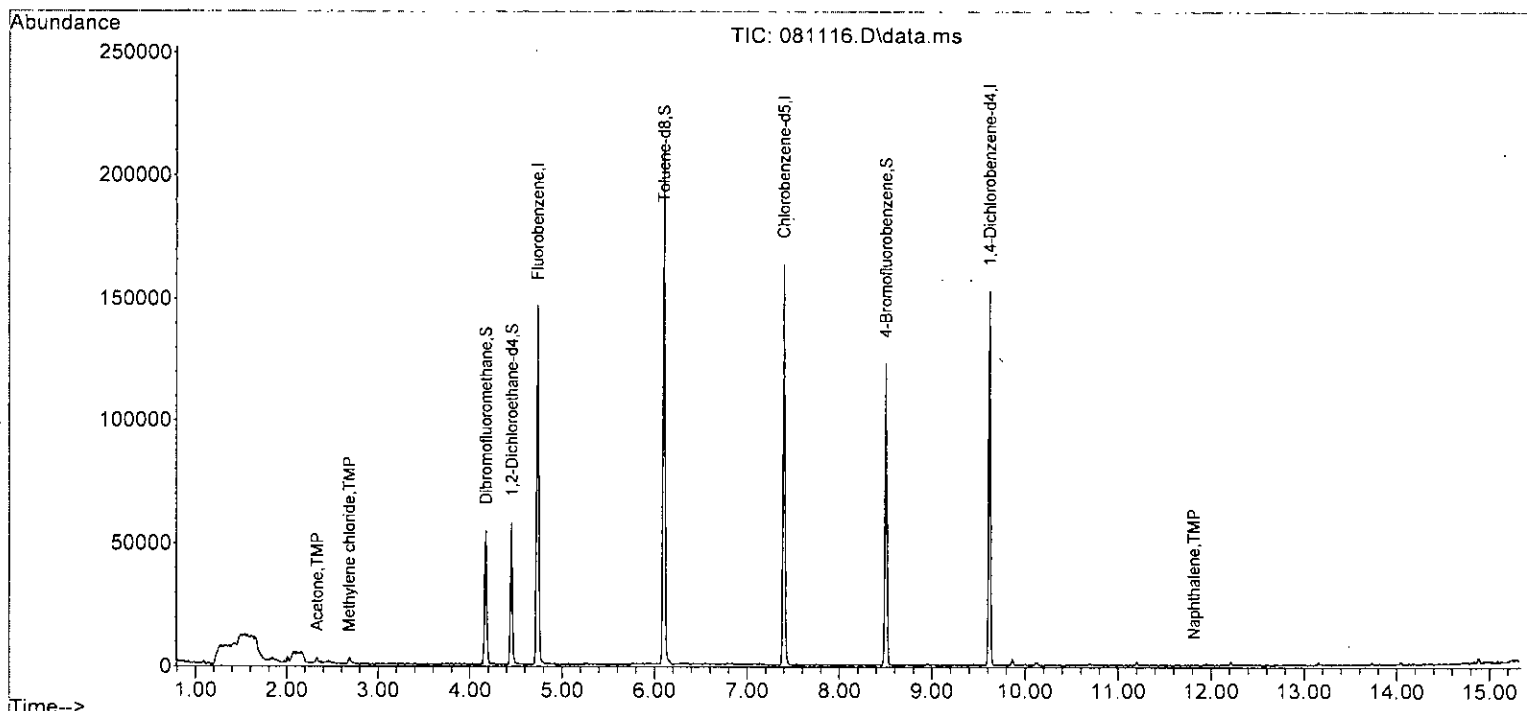
Quant Time: Aug 14 07:44:36 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.16	92	64	Below Cal	91
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	
43) 2-Hexanone	6.76	43	51	N.D.	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.64	164	48	Below Cal	96
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.54	91	68	Below Cal	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.64	106	68	Below Cal	83
52] o-Xylene	8.01	106	27	Below Cal	81
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	0.00		0	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	8.76	91	122	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	
63) 2-Chlorotoluene	8.76	91	122	N.D.	
64) 4-Chlorotoluene	8.76	91	122	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	122	N.D.	
67) sec-Butylbenzene	9.29	105	122	N.D.	
68) p-Isopropyltoluene	9.61	119	110	N.D.	
69) 1,3-Dichlorobenzene	9.55	146	22	N.D.	
70) 1,4-Dichlorobenzene	9.55	146	22	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	11.59	180	59	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.82	128	193	0.023 ppb	68
76) 1,2,3-Trichlorobenzene	12.07	180	28	N.D.	

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

Data Path : Y:\Proc\_GCMS13\08-11-23\  
 Data File : 081116.D  
 Acq On : 11 Aug 2023 11:43 am  
 Operator : MD  
 Sample : 308175-14  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Aug 14 07:44:36 2023  
 Quant Method : Y:\Methods\Inst13\072823vms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Sat Jul 29 09:22:43 2023  
 Response via : Initial Calibration  
 DataAcq Meth:VM040623.M



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

August 16, 2023

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on August 8, 2023 from the Carson Cleaners 212280-01.01, F&BI 308147 project. There are 12 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Anchor Lab Data  
ACQ0816R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 8, 2023 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners 212280-01.01, F&BI 308147 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
308147 -01	CC-IA-01-20230808
308147 -02	CC-SS-01-20230808
308147 -03	CC-AA-01-20230808
308147 -04	CC-IA-02-20230808
308147 -05	CC-SS-02-20230808
308147 -06	CC-IA-03B-20230808
308147 -07	CC-SS-03B-20230808
308147 -08	CC-IA-04-20230808

All quality control requirements were acceptable.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-01-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-01
Date Analyzed:	08/09/23	Data File:	080912.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-SS-01-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-02 1/5.0
Date Analyzed:	08/09/23	Data File:	080918.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.3	<0.5
trans-1,2-Dichloroethene	<2	<0.5
cis-1,2-Dichloroethene	<2	<0.5
Trichloroethene	<0.54	<0.1
Tetrachloroethene	<34	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-AA-01-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-03
Date Analyzed:	08/09/23	Data File:	080913.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-02-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-04
Date Analyzed:	08/09/23	Data File:	080914.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-SS-02-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-05 1/5.3
Date Analyzed:	08/09/23	Data File:	080919.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.4	<0.53
trans-1,2-Dichloroethene	<2.1	<0.53
cis-1,2-Dichloroethene	<2.1	<0.53
Trichloroethene	<0.57	<0.11
Tetrachloroethene	<36	<5.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-03B-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-06
Date Analyzed:	08/09/23	Data File:	080915.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	20	2.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-SS-03B-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-07 1/5.1
Date Analyzed:	08/09/23	Data File:	080920.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.3	<0.51
trans-1,2-Dichloroethene	<2	<0.51
cis-1,2-Dichloroethene	<2	<0.51
Trichloroethene	7.8	1.5
Tetrachloroethene	170	25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-04-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Collected:	08/08/23	Lab ID:	308147-08
Date Analyzed:	08/09/23	Data File:	080916.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Collected:	Not Applicable	Lab ID:	03-1809 MB
Date Analyzed:	08/09/23	Data File:	080911.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/23

Date Received: 08/08/23

Project: Carson Cleaners 212280-01.01, F&BI 308147

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 308149-01 1/7.3 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.9	<1.9	nm
trans-1,2-Dichloroethene	ug/m3	<2.9	<2.9	nm
cis-1,2-Dichloroethene	ug/m3	<2.9	<2.9	nm
Trichloroethene	ug/m3	<0.78	<0.78	nm
Tetrachloroethene	ug/m3	<50	<50	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Vinyl chloride	ug/m3	35	93	70-130
trans-1,2-Dichloroethene	ug/m3	54	92	70-130
cis-1,2-Dichloroethene	ug/m3	54	88	70-130
Trichloroethene	ug/m3	73	98	70-130
Tetrachloroethene	ug/m3	92	107	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

308147

SAMPLE CHAIN OF CUSTODY

09/09/25

Report To JEANETTE MARASILLA

Company ANCLER AEA

Address 1201 32ND AVE #2602

City, State, ZIP SEATTLE, WA 98101

Phone 206 287 9130 Email LINDA.ATKIN@ANCLERAEA.COM

SAMPLERS (signature) [Signature]

PROJECT NAME & ADDRESS  
CAISON/ CLEANERS  
4701 BATTERY W AVE NE, SEATTLE

NOTES:  
SEE SQ APP

PO #

217250-01.01

INVOICE TO

LINDA.ATKIN@ANCLERAEA.COM

Page # 1 of 1

TURNAROUND TIME

Standard RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Default: Clean following final report delivery Hold (Fee may apply):

SAMPLE INFORMATION

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	ANALYSIS REQUESTED			Notes		
CC-AA-01-20230808	D1	22546 <del>48825</del>	0332	IA / SG	8-8-23	31.0	772	6.0	1522	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Improve AEA
CC-SS-01-20230808	D2	9582	66	IA / SG		30.0	940	4.0	946						SUB-SEAS
CC-AA-01-20230808	D3	18565	03347	IA / SG		32.0	630	5.0	1455						AMBER AEA
CC-AA-02-20230808	D4	35377	06608	IA / SG		30.0	735	6.0	635						SECON AEA
CC-SS-02-20230808	D5	8209	70	IA / SG		29.0	1107	4.0	1112						SUB-SEAS
CC-AA-03B-20230808	D6	20544	06606	IA / SG		31.0	762	5.0	1502						AMBER AEA
CC-SS-03B-20230808	D7	8537	64	IA / SG		29.0	827	3.0	831						SUB-SEAS
CC-AA-04-20230808	D8	20549	06601	IA / SG	8-8-23	30.0	900	7.0	1409						AMBER AEA

Friedman & Bruya, Inc.

5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COCTO-15.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	STEPHEN SMITH	ANCLER AEA	8-8-23	1745
<u>[Signature]</u>	JOE MATHIASO	FBI	8/8/23	1745
Received by:		Samples received at <u>24</u> °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

August 18, 2023

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on August 8, 2023 from the Carson Cleaners 212280-01.01, F&BI 308147 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Anchor Lab Data  
ACQ0818R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 8, 2023 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners 212280-01.01, F&BI 308147 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>	<u>Canister ID</u>
308147 -01	CC-IA-01-20230808	20546
308147 -02	CC-SS-01-20230808	9882
308147 -03	CC-AA-01-20230808	18565
308147 -04	CC-IA-02-20230808	35337
308147 -05	CC-SS-02-20230808	8209
308147 -06	CC-IA-03B-20230808	20544
308147 -07	CC-SS-03B-20230808	8537
308147 -08	CC-IA-04-20230808	20549

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	20546	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	20546
Date Analyzed:	08/03/23	Data File:	080218.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	9882	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	9882
Date Analyzed:	08/01/23	Data File:	080118.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	18565	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	18565
Date Analyzed:	08/04/23	Data File:	080325.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	35337	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	35337
Date Analyzed:	08/04/23	Data File:	080324.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	8209	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	8209
Date Analyzed:	08/01/23	Data File:	080122.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	20544	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	20544
Date Analyzed:	08/02/23	Data File:	080130.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	8537	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	8537
Date Analyzed:	08/01/23	Data File:	080123.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Canister ID:	20549	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01, F&BI 308147
Date Collected:	Not Applicable	Lab ID:	20549
Date Analyzed:	08/02/23	Data File:	080131.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

308147

SAMPLE CHAIN OF CUSTODY

08/08/23

Report To STANFORD MANASSA

Company ANCLER D&A

Address 1201 32nd Ave #2602

City, State, ZIP Seattle, WA 98101

Phone 2062879130 Email LAN@ANCLER.COM

ANCLER D&A CORP

SAMPLERS (signature) [Signature]

PROJECT NAME & ADDRESS  
CAISON/ CLEANERS

NOTES:  
4701 Garvey W Ave NE, Seattle

See SQAPP

PO #

217250-0101

INVOICE TO  
LAN DATA ATTACH

ANCLER D&A CORP

Page # 1 of 1

TURNAROUND TIME  
Standard

RUSH  
Rush charges authorized by:

SAMPLE DISPOSAL  
Default: Clean following final report delivery

Hold (Fee may apply):

added  
1- per project  
specs  
8/15/23

ANALYSIS REQUESTED

TO15 Full Scan	
TO15 BTEXN	X
TO15 cVOCs	X
APH	
Helium	

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	Notes
CC-AA-01-20230808	D1	20540 48825	0352 633	(IA) / SG	8-8-23	31.0	772	6.0	1512	From the
CC-SS-01-20230808	D2	9882	66	IA / (SG)		30.0	940	4.0	946	Sub-scan
CC-AA-01-20230808	D3	18565	0347	(IA) / SG		32.0	630	5.0	1455	AMBER AIR
CC-AA-02-20230808	D4	35377	06608	(IA) / SG		30.0	737	6.0	835	Sub-scan AIR
CC-SS-02-20230808	D5	8204	70	IA / (SG)		29.0	1117	4.0	1112	Sub-scan
CC-AA-03-20230808	D6	20544	06606	(IA) / SG		31.0	702	5.0	1502	AMBER AIR
CC-SS-03-20230808	D7	8537	64	IA / (SG)		29.0	827	3.0	831	Sub-scan
CC-AA-04-20230808	D8	20549	06601	(IA) / SG		30.0	900	7.0	1409	AMBER AIR

Friedman & Bruya, Inc.  
5500 4th Avenue South  
Seattle, WA 98108

Ph. (206) 285-8982

Fax (206) 283-5044

FORMS\COG\COCTO-15.DOC

SIGNATURE

Relinquished by: [Signature]

PRINT NAME

STEPHEN SMITH

COMPANY

ANCLER D&A

DATE

8-8-23

TIME

1745

Relinquished by:

[Signature]

FGI

8/8/23

1745

Received by:

Samples received at 24 OC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

August 14, 2023

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on August 8, 2023 from the Carson Cleaners 212280-01.01, F&BI 308148 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Anchor Lab Data  
ACQ0814R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 8, 2023 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners 212280-01.01, F&BI 308148 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
308148 -01	CC-MW-01-GW-20230808
308148 -02	CC-MW-4D-GW-20230808
308148 -03	CC-MW-03-GW-20230808
308148 -04	BP-MW08-GW-20230808
308148 -05	BP-MW1008-GW-20230808
308148 -06	TB-20230808

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-01-GW-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/09/23	Lab ID:	308148-01 1/100
Date Analyzed:	08/09/23	Data File:	080924.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<2
trans-1,2-Dichloroethene	<5
cis-1,2-Dichloroethene	58
Trichloroethene	210
Tetrachloroethene	2,400

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-4D-GW-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/09/23	Lab ID:	308148-02
Date Analyzed:	08/09/23	Data File:	080921.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	0.32
cis-1,2-Dichloroethene	1.6
Trichloroethene	0.29
Tetrachloroethene	0.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-03-GW-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/09/23	Lab ID:	308148-03
Date Analyzed:	08/09/23	Data File:	080920.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	96	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW08-GW-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/09/23	Lab ID:	308148-04
Date Analyzed:	08/09/23	Data File:	080923.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.25
Tetrachloroethene	22

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW1008-GW-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/09/23	Lab ID:	308148-05
Date Analyzed:	08/09/23	Data File:	080922.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.24
Tetrachloroethene	21

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20230808	Client:	Anchor QEA
Date Received:	08/08/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/09/23	Lab ID:	308148-06
Date Analyzed:	08/09/23	Data File:	080919.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/09/23	Lab ID:	03-1811 mb
Date Analyzed:	08/09/23	Data File:	080907.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	93	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/23

Date Received: 08/08/23

Project: Carson Cleaners 212280-01.01, F&BI 308148

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 308141-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	102	16-176
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	109	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	103	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	105	43-133
Tetrachloroethene	ug/L (ppb)	10	<1	113	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Vinyl chloride	ug/L (ppb)	10	99	43-149
trans-1,2-Dichloroethene	ug/L (ppb)	10	108	70-130
cis-1,2-Dichloroethene	ug/L (ppb)	10	102	70-130
Trichloroethene	ug/L (ppb)	10	105	70-130
Tetrachloroethene	ug/L (ppb)	10	112	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

308148

SAMPLE CHAIN OF CUSTODY

08/08/23

WV1

Report To: JENNIFER MATHASARA

Company: ANCHOR D&A

Address: 1201 3100 AVE #2600

City, State, ZIP: SEATTLE, WA, 98107

Phone: 206 987 4132 Email: ANCHOR.D&A@ANCHOR.D&A.COM

SAMPLERS (signature) [Signature]

PROJECT NAME: CRISTIN CLEARINGS

PO #

211780-01.61

REMARKS

See S2 App

INVOICE TO

448 DATA ATTACHED  
ANCHOR D&A.COM

Project specific RLS? Yes  No

Page # 1 of 1

TURNAROUND TIME

Standard turnaround  
 RUSH  
Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples  
 Other  
 Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
CC-MW-01-GW-20230508	01 A-C	8-8-23	1230	H <sub>2</sub> O	3										
CC-MW-4D GW-20230508	02		1345		3										4D = 4 Deep
CC-MW-03-GW-20230508	03		1455		3										
BP-MW08-GW-20230508	04		1325		3										
BP-MW1008-GW-20230508	05		1330		3										
TB-20230508	06 A-B	8-8-23	0700	H <sub>2</sub> O	2										TRAP BROWN

SIGNATURE

Relinquished by: [Signature]

PRINT NAME

Stephen Smith

COMPANY

Anchor D&A

DATE

8-8-23

TIME

1745

Received by:

Relinquished by:

JBE MATHASARA

Samples received at 2 °C

Friedman & Bruya, Inc.  
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

September 7, 2023

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included is the amended report from the testing of material submitted on August 9, 2023 from the Carson Cleaners 212280-01.01, F&BI 308175 project. The sample IDs have been amended.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Anchor Lab Data  
ACQ0816R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

August 16, 2023

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on August 9, 2023 from the Carson Cleaners 212280-01.01, F&BI 308175 project. There are 18 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Anchor Lab Data  
ACQ0816R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 9, 2023 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners 212280-01.01, F&BI 308175 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
308175 -01	MW-20-GW-20230809
308175 -02	MW-22-GW-20230809
308175 -03	MW-28-GW-20230809
308175 -04	CC-MW-06-GW-20230809
308175 -05	BP-MW28-GW-20230809
308175 -06	BP-MW27-GW-20230809
308175 -07	MW-23-GW-20230809
308175 -08	MW-27-GW-20230809
308175 -09	MW-25-GW-20230809
308175 -10	MW-18-GW-20230809
308175 -11	CC-MW-2S-GW-20230809
308175 -12	BP-MW29-GW-20230809
308175 -13	CC-MW-2D-GW-20230809
308175 -14	TB-20230809

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-20-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-01
Date Analyzed:	08/11/23	Data File:	081125.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	95	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	0.28
cis-1,2-Dichloroethene	3.6
Trichloroethene	12
Tetrachloroethene	130



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-22-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-02 1/10
Date Analyzed:	08/11/23	Data File:	081128.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	95	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	10
trans-1,2-Dichloroethene	26
cis-1,2-Dichloroethene	740
Trichloroethene	440
Tetrachloroethene	0.63

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-28-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-03 1/10
Date Analyzed:	08/11/23	Data File:	081129.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.0
trans-1,2-Dichloroethene	6.2
cis-1,2-Dichloroethene	110
Trichloroethene	720
Tetrachloroethene	300

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-06-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-04
Date Analyzed:	08/11/23	Data File:	081117.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	96	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW28-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-05
Date Analyzed:	08/11/23	Data File:	081122.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	95	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	0.25
Trichloroethene	0.24
Tetrachloroethene	29

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW27-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-06
Date Analyzed:	08/11/23	Data File:	081123.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	93	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.025
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	0.09
Trichloroethene	0.36
Tetrachloroethene	57

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-23-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-07 1/10
Date Analyzed:	08/11/23	Data File:	081127.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	95	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	21
trans-1,2-Dichloroethene	16
cis-1,2-Dichloroethene	470
Trichloroethene	250
Tetrachloroethene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-27-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-08
Date Analyzed:	08/11/23	Data File:	081124.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	116	68	139
4-Bromofluorobenzene	95	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	8.1
trans-1,2-Dichloroethene	32
cis-1,2-Dichloroethene	140
Trichloroethene	100
Tetrachloroethene	0.16

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-25-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-09 1/10
Date Analyzed:	08/11/23	Data File:	081126.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	93	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	63
trans-1,2-Dichloroethene	65
cis-1,2-Dichloroethene	330
Trichloroethene	37
Tetrachloroethene	16



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-18-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-10
Date Analyzed:	08/11/23	Data File:	081120.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	96	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.37
Tetrachloroethene	1.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-2S-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-11
Date Analyzed:	08/11/23	Data File:	081119.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	97	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	0.34

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW29-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-12
Date Analyzed:	08/11/23	Data File:	081118.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	96	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-2D-GW-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-13
Date Analyzed:	08/11/23	Data File:	081121.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	97	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.13
Tetrachloroethene	3.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20230809	Client:	Anchor QEA
Date Received:	08/09/23	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	308175-14
Date Analyzed:	08/11/23	Data File:	081116.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	97	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Extracted:	08/11/23	Lab ID:	03-1819 mb
Date Analyzed:	08/11/23	Data File:	081107.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	96	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/23

Date Received: 08/09/23

Project: Carson Cleaners 212280-01.01, F&BI 308175

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 308175-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	<0.02	97	100	16-176	3
trans-1,2-Dichloroethene	ug/L (ppb)	10	<0.05	108	110	50-150	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	0.25	103	105	50-150	2
Trichloroethene	ug/L (ppb)	10	0.24	103	107	43-133	4
Tetrachloroethene	ug/L (ppb)	10	29	95 b	101 b	50-150	6 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	100	96	43-149	4
trans-1,2-Dichloroethene	ug/L (ppb)	10	111	108	70-130	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	105	106	70-130	1
Trichloroethene	ug/L (ppb)	10	108	105	70-130	3
Tetrachloroethene	ug/L (ppb)	10	114	110	70-130	4

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



308175

SAMPLE CHAIN OF CUSTODY

08/09/23

Page # 1 of 2

Report To Jennifer Marsalla

Company Anchor O&A

Address 1201 3rd Ave #2400

City, State, ZIP Seattle WA 98101

Phone 206-287-9130 Email LABDATA@ANCHORO&A.COM

SAMPLERS (signature) SRS

PROJECT NAME Carson Clearers

REMARKS see SQAPP

Project specific RIs? - Yes / No

PO #

212280-01.01

INVOICE TO LABDATA@ANCHORO&A.COM

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270		PCBs EPA 8082
MW20-GW-20230809	01 A-C	08/09	08:15	GW	3								"MW-20"
MW22-GW-20230809	02	08/09	12:00	GW	3								"MW-22"
MW28-GW-20230809	03	08/09	09:20	GW	3								"MW-28"
CC-MW20-GW-20230809	04	08/09	10:30	GW	3								"CC-MW-06"
BP-MW28-GW-20230809	05	08/09	13:05	GW	6								MS/MSD
BP-MW27-GW-20230809	06	08/09	12:10	GW	3								
MW23-GW-20230809	07	08/09	10:45	GW	3								"MW-23"
MW27-GW-20230809	08	08/09	09:45	GW	3								"MW-27"
MW25-GW-20230809	09	08/09	08:50	GW	3								"MW-25"
MW18-GW-20230809	10	08/09	08:00	GW	3								"MW-18"

Friedman & Bruya, Inc.  
171. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:	SRS	STEPHEN SMITH		ANCHOR O&A		8-9-23	1648
Received by:	HONGSEA	HONGSEA		FBI		8/9/23	16:48
Relinquished by:							
Received by:				Samples received at			

308175

SAMPLE CHAIN OF CUSTODY

08/09/23

Page # 2 of 2

Report to Jennifer Marsella

Company Anchor QQA

Address 1001 3rd Ave # 2600

City, State, ZIP Seattle WA 98101

Phone 206-157-9130

email LABDATAATTACH@ANCHORQA.COM

SAMPLERS (signature) [Signature]

PROJECT NAME

Carson Cleaners

PO #

21250-01,01

REMARKS

See SQAPP

INVOICE TO

LABDATA ATTACH@ANCHORQA.COM

Project specific RIs? - Yes / No

ANALYSES REQUESTED

- NWTPH-Dx
- NWTPH-Gx
- BTEX EPA 8021
- NWTPH-HCID
- VOCs EPA 8260
- PAHs EPA 8270
- PCBs EPA 8082

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	Notes
CC-MW-2S-GW-20230809	-11A-C	08/09	1430	GW	3	
BP-MW29-GW-20230809	12 AC	08/09	1550	GW	3	
CC-MW-2D-GW-20230809	13A-C	08/09	1600	GW	3	
TR-20230809	-14A-B	08/09	07:00	water	2	top of ANN
	55	8-9-23				

SIGNATURE

Relinquished by:

[Signature]

PRINT NAME

Stephen Spear

Received by:

[Signature]

COMPANY

Anchor QQA

Relinquished by:

[Signature]

DATE

8-9-23

TIME

16:48

Received by:

[Signature]

Samples received at 7 °C

Friedman & Bruya, Inc.  
Ph. (206) 285-8282