Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: ICV0719
Level:
Data Type: MS DATA
SpikeList File: ICVS.spk
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Client SDG: 20100719
Fraction: SV
Client Smp ID: ICV0719
Operator: JZ
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3 Phenol	25.00	25.38	101.54	
4 Bis(2-Chloroethyl)	25.00	24.67	98.69	
6 2-Chlorophenol	25.00	25.52	102.08	
7 1,3-Dichlorobenzen	25.00	24.80	99.18	
9 1,4-Dichlorobenzen	25.00	24.93	99.73	
11 Benzyl alcohol	25.00	25.20	100.80	
12 1,2-Dichlorobenzen	25.00	25.14	100.57	
13 2-Methylphenol	25.00	26.39	105.57	
14 2,2'-oxybis(1-Chlo	25.00	25.29	101.15	
15 4-Methylphenol	25.00	26.16	104.65	
16 N-Nitroso-di-n-pro	25.00	25.38	101.50	
17 Hexachloroethane	25.00	24.95	99.80	
19 Nitrobenzene	25.00	25.55	102.19	
20 Isophorone	25.00	25.14	100.55	
21 2-Nitrophenol	25.00	27.03	108.12	
22 2,4-Dimethylphenol	25.00	26.07	104.26	
23 Bis(2-Chloroethoxy	25.00	24.88	99.52	
24 Benzoic acid	50.00	48.84	97.69	
25 2,4-Dichlorophenol	25.00	26.65	106.59	
26 1,2,4-Trichloroben	25.00	24.57	98.29	
28 Naphthalene	25.00	25.33	101.30	
29 4-Chloroaniline	25.00	25.53	102.13	
30 Hexachlorobutadien	25.00	24.57	98.27	
31 4-Chloro-3-methylp	25.00	27.16	108.64	
32 2-Methylnaphthalen	25.00	24.77	99.09	
33 Hexachlorocyclopen	25.00	26.78	107.11	
34 2,4,6-Trichlorophe	25.00	26.02	104.08	
35 2,4,5-Trichlorophe	25.00	26.83	107.31	
37 2-Chloronaphthalen	25.00	24.94	99.76	
38 2-Nitroaniline	25.00	27.94	111.77	
39 Dimethylphthalate	25.00	24.78	99.13	
40 Acenaphthylene	25.00	25.32	101.27	
41 2,6-Dinitrotoluene	25.00	26.53	106.12	

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43	3-Nitroaniline	25.00	27.37	109.47	
44	Acenaphthene	25.00	24.70	98.80	
45	2,4-Dinitrophenol	50.00	53.89	107.79	
46	Dibenzofuran	25.00	25.33	101.30	
47	4-Nitrophenol	25.00	26.88	107.54	
48	2,4-Dinitrotoluene	25.00	26.94	107.77	
49	Fluorene	25.00	25.86	103.43	
50	Diethylphthalate	25.00	25.63	102.50	
51	4-Chlorophenyl-phe	25.00	25.52	102.07	
52	4-Nitroaniline	25.00	25.60	102.39	
53	4,6-Dinitro-2-meth	50.00	55.73	111.46	
54	N-Nitrosodiphenyla	25.00	25.31	101.25	
56	4-Bromophenyl-phen	25.00	25.20	100.79	
57	Hexachlorobenzene	25.00	24.65	98.59	
58	Pentachlorophenol	25.00	26.33	105.31	
60	Phenanthrene	25.00	25.08	100.31	
61	Anthracene	25.00	25.51	102.03	
63	Di-n-butylphthalat	25.00	26.27	105.07	
64	Fluoranthene	25.00	25.55	102.20	
65	Pyrene	25.00	24.84	99.36	
67	Butylbenzylphthala	25.00	25.87	103.50	
68	Benzo(a)anthracene	25.00	25.08	100.32	
70	3,3'-Dichlorobenzi	25.00	25.69	102.74	
71	Chrysene	25.00	24.87	99.47	
72	bis(2-Ethylhexyl)p	25.00	26.37	105.48	
73	Di-n-octylphthalat	25.00	25.40	101.62	
74	Benzo(b)fluoranthe	25.00	24.65	98.61	
75	Benzo(k)fluoranthe	25.00	26.29	105.16	
76	Benzo(a)pyrene	25.00	25.84	103.36	
78	Indeno(1,2,3-cd)py	25.00	25.37	101.48	
79	Dibenzo(a,h)anthra	25.00	26.16	104.63	
80	Benzo(g,h,i)peryle	25.00	25.31	101.24	
90	N-Nitrosodimethyla	25.00	24.82	99.27	
91	Aniline	25.00	24.84	99.36	
93	Benzidine	25.00	23.66	94.63	
105	1-methylnaphthalen	25.00	24.63	98.50	
120	2,3,4,6-Tetrachlor	25.00	26.90	107.61	
151	1,2,4,5-Tetrachlor	25.00	24.70	98.82	
110	Tetrachloroguaiaco	50.00	52.65	105.30	
109	3,4,5-Trichlorogua	25.00	26.65	106.61	
181	3,4,6-Trichlorogua	25.00	26.88	107.54	
108	4,5,6-Trichlorogua	25.00	25.92	103.70	
184	3,4-Dichloroguaiac	25.00	25.40	101.61	
107	4,5-Dichloroguaiac	25.00	24.72	98.87	
182	4,6-Dichloroguaiac	25.00	26.16	104.65	
185	4-Chloroguaiacol	12.50	13.02	104.13	
106	Guaiacol	25.00	25.43	101.72	

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: ICV0719
Level:
Data Type: MS DATA
SpikeList File: ICVS.spk
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Client SDG: 20100719
Fraction: SV
Client Smp ID: ICV0719
Operator: JZ
SampleType: LCS
Quant Type: ISTD

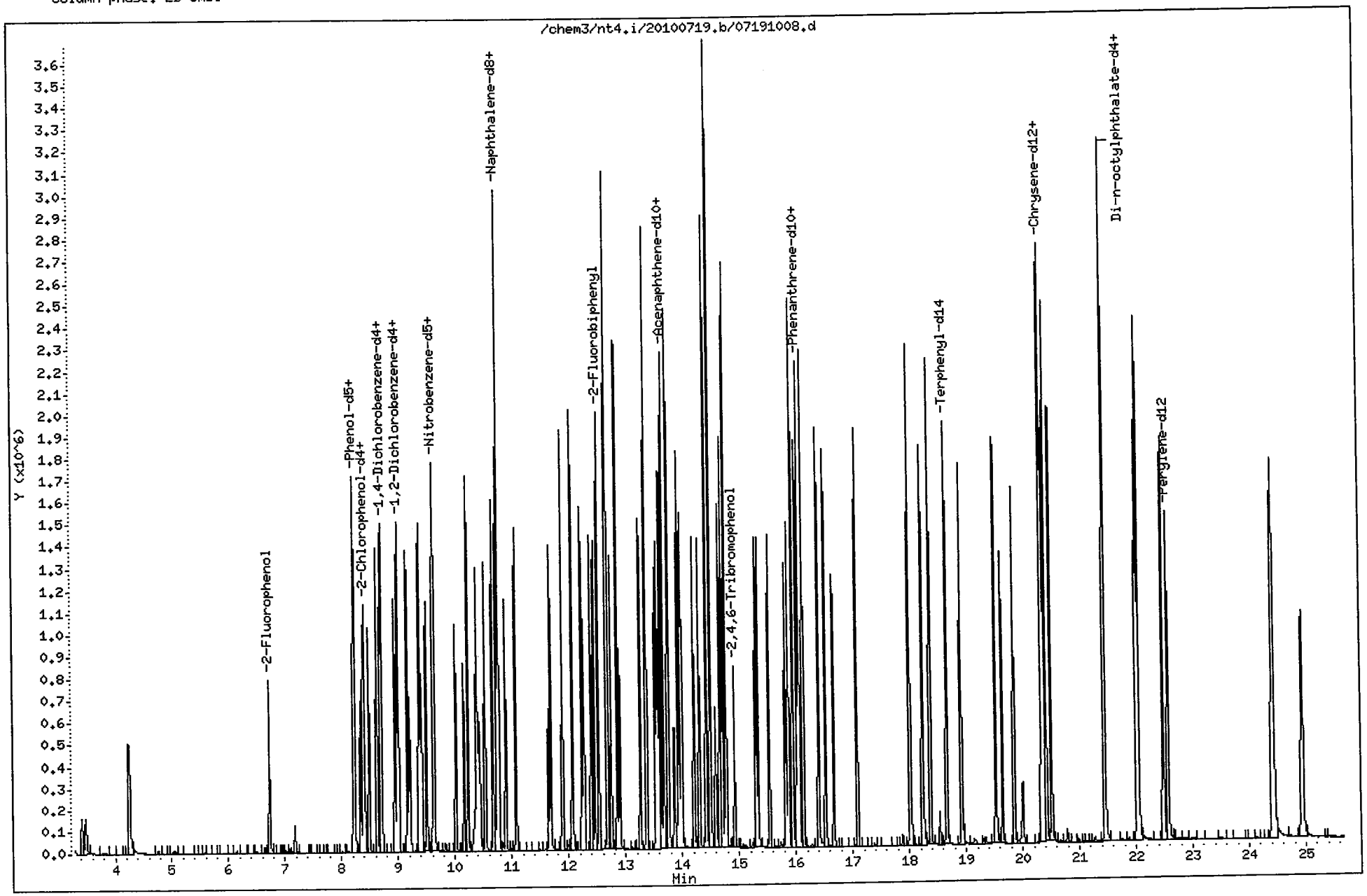
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	25.00	25.25	100.99	
$ 2 Phenol-d5	25.00	26.02	104.08	
$ 5 2-Chlorophenol-d4	25.00	25.66	102.63	
$ 10 1,2-Dichlorobenzen	25.00	25.24	100.95	
$ 18 Nitrobenzene-d5	25.00	26.61	106.46	
$ 36 2-Fluorobiphenyl	25.00	25.11	100.43	
$ 55 2,4,6-Tribromophen	25.00	27.17	108.67	
$ 66 Terphenyl-d14	25.00	25.15	100.61	
$ 137 d8-1,4-Dioxane	25.00	24.48	97.94	

Data File: /chem3/nt4.i/20100719.b/07191008.d
Date : 19-JUL-2010 20:21
Client ID: ICV0719
Sample Info: ICV0719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RF71 : 69239

Semivolatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RF71

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: Anchor QEA

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/19/10 Analysis Start Date: 8/9 ; 8/10/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

8/9: LCS/LCSD

8/10 MB + Sample A (run with 3x dilution).

Forms included

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 8/10/10

Reviewer: _____ **Date:** 8/10/10

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 8/9/10 Analysis: 8270 Analyst: B

GC Program: ABN Column No: 172294 Column Type: ZB-5MSi

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1247

Calibration File: 08041001 Curve Date: 7/19/10

IS/SS	Ical/Ccal	LCS/ICV
1752-1	1747-3, 1733-1	
	1735-1, 1736-1	
	25019, 1752-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100809.b

	Time	Filename	LabID	ClientId	DF											
1	1111	08091001.d	CC0809	CC0809	1	8.18	495142	10.22	1699495	13.09	1046083	15.47	1723172	19.79	1338566	21.96	1343563	20.92	1910241
2	1206	08091002.d	RF64MBS1	RF64MBS1	1	10.22	1733595	13.09	1054054	15.47	1676361	19.79	1420086	21.95	1440447				
3	1240	08091003.d	RF64LCSS1	RF64LCSS1	1	10.22	1735579	13.09	1062324	15.47	1714677	19.79	1377625	21.95	1448013				
4	1313	08091004.d	RF64LCSDS1	RF64LCSDS1	1	10.22	1803185	13.09	1105739	15.47	1763814	19.79	1470183	21.95	1467863				
5	1347	08091005.d	RF64A 5X	PA-CB-01	3	10.22	1803879	13.09	1078174	15.47	1753247	19.82	1560063	22.02	1170179				
6	1420	08091006.d	RF64B	PA-CB-02	3	10.23	1924416	13.09	1172135	15.47	1848773	19.81	1781671	22.00	1187891				
7	1454	08091007.d	RF64C	PA-CB-03	3	10.23	2013110	13.09	1229513	15.47	2048097	19.83	1666090	22.01	985346				
8	1527	08091008.d	RF64D	PA-CB-04	3	10.23	1788956	13.09	1101188	15.47	1728594	19.81	1716902	21.99	1117118				
9	1601	08091009.d	RF64E	PA-CB-05	3	10.23	2003411	13.09	1222135	15.47	1982113	19.82	1718481	22.00	900678				
10	1634	08091010.d	RF64F	PA-CB-06	3	10.23	1953988	13.10	1174753	15.49	1996510	19.84	1431498	22.03	682864				
11	1707	08091011.d	RF64G	PA-CB-07	3	10.23	2017076	13.09	1236308	15.47	1960161	19.82	1756402	22.00	892161				
12	1741	08091012.d	RF64H	PA-CB-DUP	3	10.22	1826677	13.09	1140568	15.48	1928120	19.82	1497643	22.00	641920				
13	1814	08091013.d	RF64I	HP-CB-01	3	10.23	2015845	13.09	1246907	15.48	2120390	19.82	1667879	21.99	699298				
14	1848	08091014.d	RF64J	HP-CB-02	3	10.23	2001683	13.10	1261297	15.48	2207966	19.83	1471768	22.00	621310				
15	1921	08091015.d	RF64K	HP-CB-03	3	10.23	1995539	13.10	1235315	15.48	2125280	19.83	1441886	21.99	567630				
16	1955	08091016.d	RF64L	HP-OWS-INLET	3	10.23	2062698	13.10	1349314	15.48	2332132	19.83	1361280	22.01	524204				
17	2028	08091017.d	RF64M	HP-OWS-OUTLE	3	10.23	1937577	13.10	1242012	15.48	2152779	19.83	1182881	22.00	456601				
18	2101	08091018.d	RF64H 5X	PA-CB-DUP	5	10.23	1970229	13.10	1261035	15.48	2189077	19.82	1268216	21.99	521539				
19	2135	08091019.d	RF71MBS1 2S out MR	RF71MBS1	1	8.18	539880	10.23	1728670	13.09	1125813	15.47	1883408	19.80	1254313	20.92	2189238	21.96	514642
20	2208	08091020.d	RF71LCSS1	RF71LCSS1	1	8.19	575086	10.23	1938445	13.10	1214863	15.48	2139857	19.80	1352005	20.93	22S9308	21.96	639519
21	2242	08091021.d	RF71LCSDS1	RF71LCSDS1	1	8.18	599994	10.23	1919526	13.10	1257498	15.48	2204767	19.80	1419042	20.93	2479492	21.96	643690

5S out

2S out MR

Maintenance / Comments

AE 08/10/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

RF71 : 00291

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100809.b

ARI Job No.: CC08 Method: SW846100719.m Instrument: nt4.i Date: 09-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1111	08091001.d	CC0809	CC0809	1	NO MANUAL INTEGRATION
2208	08091020.d	RF71LCSS1	RF71LCSS1	1	NO MANUAL INTEGRATION
2242	08091021.d	RF71LCSDS1	RF71LCSDS1	1	N-Nitrosodimethylamine, Pyridine,

08/10/10

RT 1 09202

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt4.i/20100809.b

Instrument: nt4.i Date: 09-AUG-2010 Method: SW846100719.m

INITIAL CAL: 19-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

08/09/10

CONTINUING CAL: 09-AUG-2010

Compound	%D
4-Nitrophenol	-27.4

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08091001.d
Analysis Type:
Lab Sample ID: CC0809
Method: /chem3/nt4.i/20100809.b/SW846100719.m

Injection Date: 09-AUG-2010 11:11
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

08/09/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.08371	1.00761	1.00761	0.010	-7.02266	20.00000	Averaged
$ 2 Phenol-d5	1.06604	1.02716	1.02716	0.010	-3.64717	20.00000	Averaged
3 Phenol	1.37947	1.21838	1.21838	0.100	-11.67759	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.14386	1.07885	1.07885	0.010	-5.68284	20.00000	Averaged
4 Bis(2-Chloroethyl)ether	1.02875	0.98338	0.98338	0.700	-4.40995	20.00000	Averaged
6 2-Chlorophenol	1.31278	1.20863	1.20863	0.800	-7.93368	20.00000	Averaged
7 1,3-Dichlorobenzene	1.49159	1.39800	1.39800	0.010	-6.27457	20.00000	Averaged
9 1,4-Dichlorobenzene	1.50653	1.41457	1.41457	0.010	-6.10443	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.85327	0.77323	0.77323	0.010	-9.38035	20.00000	Averaged
12 1,2-Dichlorobenzene	1.40311	1.31093	1.31093	0.010	-6.56935	20.00000	Averaged
11 Benzyl alcohol	0.78176	0.68650	0.68650	0.010	-12.18529	20.00000	Averaged
14 2,2'-oxybis(1-Chloropropane	0.96702	0.96210	0.96210	0.010	-0.50841	20.00000	Averaged
13 2-Methylphenol	1.05383	0.98213	0.98213	0.700	-6.80373	20.00000	Averaged
17 Hexachloroethane	0.55799	0.51153	0.51153	0.300	-8.32683	20.00000	Averaged
16 N-Nitroso-di-n-propylamine	0.72131	0.64666	0.64666	0.500	-10.34881	20.00000	Averaged
15 4-Methylphenol	1.09383	1.01632	1.01632	0.600	-7.08606	20.00000	Averaged
$ 18 Nitrobenzene-d5	0.30955	0.30733	0.30733	0.010	-0.71749	20.00000	Averaged
19 Nitrobenzene	0.30648	0.28569	0.28569	0.200	-6.78382	20.00000	Averaged
20 Isophorone	0.50898	0.48198	0.48198	0.300	-5.30466	20.00000	Averaged
21 2-Nitrophenol	0.19148	0.19426	0.19426	0.100	1.45440	20.00000	Averaged
22 2,4-Dimethylphenol	0.34090	0.31710	0.31710	0.200	-6.98138	20.00000	Averaged
23 Bis(2-Chloroethoxy)methane	0.35475	0.35037	0.35037	0.050	-1.23355	20.00000	Averaged
24 Benzoic acid	42.94334	50.00000	0.23546	0.010	-14.11332	20.00000	Linear
25 2,4-Dichlorophenol	0.29949	0.29600	0.29600	0.100	-1.16712	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.33353	0.32105	0.32105	0.010	-3.74244	20.00000	Averaged
28 Naphthalene	0.94898	0.90977	0.90977	0.100	-4.13207	20.00000	Averaged
29 4-Chloroaniline	0.37840	0.37264	0.37264	0.010	-1.52030	20.00000	Averaged
30 Hexachlorobutadiene	0.18923	0.17716	0.17716	0.010	-6.37990	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.27464	0.26935	0.26935	0.200	-1.92774	20.00000	Averaged
32 2-Methylnaphthalene	0.64492	0.61173	0.61173	0.300	-5.14583	20.00000	Averaged
33 Hexachlorocyclopentadiene	0.29263	0.28787	0.28787	0.001	-1.62559	20.00000	Averaged
34 2,4,6-Trichlorophenol	0.36003	0.34141	0.34141	0.200	-5.17043	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.36654	0.36159	0.36159	0.200	-1.35039	20.00000	Averaged
$ 36 2-Fluorobiphenyl	1.22512	1.11226	1.11226	0.010	-9.21208	20.00000	Averaged
37 2-Chloronaphthalene	1.08775	0.98845	0.98845	0.700	-9.12921	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 09-AUG-2010 11:11
Lab File ID: 08091001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0809 Quant Type: ISTD
Method: /chem3/nt4.i/20100809.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.21001	0.22011	0.22011	0.010	4.80776	20.00000	Averaged	
39 Dimethylphthalate	1.27768	1.15215	1.15215	0.010	-9.82546	20.00000	Averaged	
40 Acenaphthylene	1.64077	1.52776	1.52776	0.900	-6.88728	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.28751	0.28091	0.28091	0.100	-2.29477	20.00000	Averaged	
43 3-Nitroaniline	0.25351	0.25484	0.25484	0.010	0.52562	20.00000	Averaged	
44 Acenaphthene	1.06825	0.95962	0.95962	0.100	-10.16907	20.00000	Averaged	
45 2,4-Dinitrophenol	53.22290	50.00000	0.18094	0.030	6.44581	20.00000	Quadratic	
46 Dibenzofuran	1.42396	1.30649	1.30649	0.800	-8.24932	20.00000	Averaged	
47 4-Nitrophenol	0.17920	0.13007	0.13007	0.010	-27.41839	20.00000	Averaged	<-
48 2,4-Dinitrotoluene	0.37910	0.37256	0.37256	0.200	-1.72557	20.00000	Averaged	
50 Diethylphthalate	1.32169	1.14859	1.14859	0.010	-13.09656	20.00000	Averaged	
49 Fluorene	1.23204	1.15656	1.15656	0.100	-6.12631	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.59756	0.57384	0.57384	0.100	-3.96943	20.00000	Averaged	
52 4-Nitroaniline	0.27464	0.26476	0.26476	0.010	-3.59971	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.13800	0.14260	0.14260	0.001	3.33179	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.56415	0.52222	0.52222	0.010	-7.43167	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.14302	0.14863	0.14863	0.010	3.92317	20.00000	Averaged	
56 4-Bromophenyl-phenylether	0.20445	0.20207	0.20207	0.100	-1.16191	20.00000	Averaged	
57 Hexachlorobenzene	0.20941	0.20323	0.20323	0.100	-2.95192	20.00000	Averaged	
58 Pentachlorophenol	0.14268	0.12006	0.12006	0.010	-15.85542	20.00000	Averaged	
60 Phenanthrene	1.03607	0.94267	0.94267	0.700	-9.01527	20.00000	Averaged	
61 Anthracene	1.05988	0.99245	0.99245	0.700	-6.36185	20.00000	Averaged	
62 Carbazole	0.96311	0.88554	0.88554	0.010	-8.05425	20.00000	Averaged	
63 Di-n-butylphthalate	1.22802	1.11534	1.11534	0.010	-9.17543	20.00000	Averaged	
64 Fluoranthene	1.07347	0.96482	0.96482	0.600	-10.12132	20.00000	Averaged	
65 Pyrene	1.26819	1.26829	1.26829	0.600	0.00769	20.00000	Averaged	
$ 66 Terphenyl-d14	0.77444	0.75951	0.75951	0.010	-1.92728	20.00000	Averaged	
67 Butylbenzylphthalate	0.64359	0.60686	0.60686	0.010	-5.70799	20.00000	Averaged	
68 Benzo(a)anthracene	1.17238	1.07633	1.07633	0.800	-8.19264	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37917	0.33527	0.33527	0.010	-11.57917	20.00000	Averaged	
71 Chrysene	1.14746	1.05124	1.05124	0.700	-8.38545	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.56782	0.56968	0.56968	0.010	0.32761	20.00000	Averaged	
73 Di-n-octylphthalate	0.99436	0.92213	0.92213	0.010	-7.26396	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.24491	1.04834	1.04834	0.700	-15.78962	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.26106	1.22272	1.22272	0.700	-3.04019	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 09-AUG-2010 11:11
Lab File ID: 08091001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0809 Quant Type: ISTD
Method: /chem3/nt4.i/20100809.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.18021	1.06391	1.06391	0.010	-9.85438	20.00000	Averaged
76 Benzo(a)pyrene	1.10432	1.02441	1.02441	0.700	-7.23653	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.18581	1.32590	1.32590	0.500	11.81407	20.00000	Averaged
79 Dibenzo(a,h)anthracene	0.95329	1.08993	1.08993	0.400	14.33356	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.01362	1.18223	1.18223	0.500	16.63464	20.00000	Averaged
90 N-Nitrosodimethylamine	0.58263	0.53792	0.53792	0.010	-7.67346	20.00000	Averaged
103 Pyridine	1.00478	0.95176	0.95176	0.010	-5.27623	20.00000	Averaged
91 Aniline	1.43987	1.39392	1.39392	0.010	-3.19093	20.00000	Averaged
105 1-methylnaphthalene	0.63176	0.59892	0.59892	0.010	-5.19780	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100809.b/08091001.d
Lab Smp Id: CC0809 Client Smp ID: CC0809
Inj Date : 09-AUG-2010 11:11
Operator : JZ Inst ID: nt4.i
Smp Info : CC0809
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100809.b/SW846100719.m
Meth Date : 09-Aug-2010 13:56 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

09/09/10

AMOUNTS

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	6.230	6.230	(0.762)	623637	25.0000	23.24
$ 2 Phenol-d5	99	7.752	7.752	(0.948)	635740	25.0000	24.09
3 Phenol	94	7.769	7.769	(0.950)	754091	25.0000	22.08
$ 5 2-Chlorophenol-d4	132	7.887	7.887	(0.964)	667733	25.0000	23.58
4 Bis(2-Chloroethyl)ether	93	7.852	7.852	(0.960)	608644	25.0000	23.90
6 2-Chlorophenol	128	7.910	7.910	(0.967)	748056	25.0000	23.02
7 1,3-Dichlorobenzene	146	8.122	8.122	(0.993)	865259	25.0000	23.43
* 8 1,4-Dichlorobenzene-d4	152	8.181	8.181	(1.000)	495142	20.0000	
9 1,4-Dichlorobenzene	146	8.210	8.210	(1.004)	875516	25.0000	23.47
$ 10 1,2-Dichlorobenzene-d4	152	8.480	8.480	(1.037)	478573	25.0000	22.65
12 1,2-Dichlorobenzene	146	8.504	8.504	(1.039)	811372	25.0000	23.36
11 Benzyl alcohol	108	8.463	8.463	(1.034)	424896	25.0000	21.95
14 2,2'-oxybis(1-Chloropropane)	45	8.715	8.715	(1.065)	595473	25.0000	24.87
13 2-Methylphenol	108	8.698	8.698	(1.063)	607867	25.0000	23.30
17 Hexachloroethane	117	8.991	8.991	(1.099)	316600	25.0000	22.92
16 N-Nitroso-di-n-propylamine	70	8.938	8.938	(1.093)	400237	25.0000	22.41
15 4-Methylphenol	108	8.927	8.927	(1.091)	629031	25.0000	23.23
$ 18 Nitrobenzene-d5	82	9.115	9.115	(0.891)	652872	25.0000	24.82
19 Nitrobenzene	77	9.144	9.144	(0.894)	606905	25.0000	23.30
20 Isophorone	82	9.520	9.520	(0.931)	1023894	25.0000	23.67
21 2-Nitrophenol	139	9.655	9.655	(0.944)	412688	25.0000	25.36
22 2,4-Dimethylphenol	107	9.767	9.767	(0.955)	673645	25.0000	23.25
23 Bis(2-Chloroethoxy)methane	93	9.908	9.908	(0.969)	744323	25.0000	24.69
24 Benzoic acid	105	10.013	10.013	(0.979)	1000424	50.0000	42.94
25 2,4-Dichlorophenol	162	10.043	10.043	(0.982)	628811	25.0000	24.71
26 1,2,4-Trichlorobenzene	180	10.166	10.166	(0.994)	682032	25.0000	24.06
* 27 Naphthalene-d8	136	10.225	10.225	(1.000)	1699495	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.254	10.254	(1.003)	1932683	25.0000	23.97
	29 4-Chloroaniline	127	10.401	10.401	(1.017)	791633	25.0000	24.62
	30 Hexachlorobutadiene	225	10.572	10.572	(1.034)	376345	25.0000	23.41
	31 4-Chloro-3-methylphenol	107	11.212	11.212	(1.097)	572195	25.0000	24.52
	32 2-Methylnaphthalene	142	11.376	11.376	(1.113)	1299546	25.0000	23.71
	33 Hexachlorocyclopentadiene	237	11.758	11.758	(0.898)	376425	25.0000	24.59
	34 2,4,6-Trichlorophenol	196	11.893	11.893	(0.908)	446430	25.0000	23.71
	35 2,4,5-Trichlorophenol	196	11.952	11.952	(0.913)	472816	25.0000	24.66
$	36 2-Fluorobiphenyl	172	12.022	12.022	(0.918)	1454392	25.0000	22.70
	37 2-Chloronaphthalene	162	12.158	12.158	(0.929)	1292502	25.0000	22.72
	38 2-Nitroaniline	65	12.393	12.393	(0.947)	287813	25.0000	26.20
	39 Dimethylphthalate	163	12.763	12.763	(0.975)	1506551	25.0000	22.54
	40 Acenaphthylene	152	12.839	12.839	(0.981)	1997707	25.0000	23.28
	41 2,6-Dinitrotoluene	165	12.857	12.857	(0.982)	367317	25.0000	24.43
*	42 Acenaphthene-d10	164	13.092	13.092	(1.000)	1046083	20.0000	
	43 3-Nitroaniline	138	13.074	13.074	(0.999)	333234	25.0000	25.13
	44 Acenaphthene	153	13.144	13.144	(1.004)	1254805	25.0000	22.46
	45 2,4-Dinitrophenol	184	13.238	13.238	(1.011)	473190	50.0000	53.22
	46 Dibenzofuran	168	13.403	13.403	(1.024)	1708370	25.0000	22.94
	47 4-Nitrophenol	109	13.385	13.385	(1.022)	170077	25.0000	18.15
	48 2,4-Dinitrotoluene	165	13.485	13.485	(1.030)	487155	25.0000	24.57
	50 Diethylphthalate	149	13.914	13.914	(1.063)	1501904	25.0000	21.73
	49 Fluorene	166	13.961	13.961	(1.066)	1512320	25.0000	23.47
	51 4-Chlorophenyl-phenylether	204	13.979	13.979	(1.068)	750353	25.0000	24.01
	52 4-Nitroaniline	138	14.067	14.067	(1.074)	346195	25.0000	24.10
	53 4,6-Dinitro-2-methylphenol	198	14.143	14.143	(0.914)	614293	50.0000	51.67
	54 N-Nitrosodiphenylamine	169	14.190	14.190	(0.917)	1124848	25.0000	23.14
$	55 2,4,6-Tribromophenol	330	14.384	14.384	(1.099)	194354	25.0000	25.98
	56 4-Bromophenyl-phenylether	248	14.766	14.766	(0.954)	435255	25.0000	24.71
	57 Hexachlorobenzene	284	14.989	14.989	(0.969)	437748	25.0000	24.26
	58 Pentachlorophenol	266	15.289	15.289	(0.988)	258608	25.0000	21.04
*	59 Phenanthrene-d10	188	15.471	15.471	(1.000)	1723172	20.0000	
	60 Phenanthrene	178	15.506	15.506	(1.002)	2030472	25.0000	22.75
	61 Anthracene	178	15.576	15.576	(1.007)	2137709	25.0000	23.41
	62 Carbazole	167	15.858	15.858	(1.025)	1907420	25.0000	22.99
	63 Di-n-butylphthalate	149	16.563	16.563	(1.071)	2402408	25.0000	22.71
	64 Fluoranthene	202	17.445	17.445	(1.128)	2078191	25.0000	22.47
	65 Pyrene	202	17.803	17.803	(0.899)	2122112	25.0000	25.00
$	66 Terphenyl-d14	244	18.108	18.108	(0.915)	1270817	25.0000	24.52
	67 Butylbenzylphthalate	149	18.990	18.990	(0.959)	1015399	25.0000	23.57
	68 Benzo(a)anthracene	228	19.765	19.765	(0.998)	1800921	25.0000	22.95
*	69 Chrysene-d12	240	19.794	19.794	(1.000)	1338566	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.771	19.771	(0.999)	560974	25.0000	22.11
	71 Chrysene	228	19.835	19.835	(1.002)	1758944	25.0000	22.90
	72 bis(2-Ethylhexyl)phthalate	149	19.982	19.982	(0.955)	1360284	25.0000	25.08
*	134 Di-n-octylphthalate-d4	153	20.916	20.916	(1.000)	1910241	20.0000	
	73 Di-n-octylphthalate	149	20.922	20.922	(1.000)	2201856	25.0000	23.18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.427	21.427	(0.976)	1760643	25.0000	21.05
75	Benzo(k)fluoranthene	252	21.457	21.457	(0.977)	2053503	25.0000	24.24
187	Total Benzofluoranthenes	252	21.457	21.457	(0.977)	3573568	50.0000	45.07
76	Benzo(a)pyrene	252	21.874	21.874	(0.996)	1720448	25.0000	23.19
* 77	Perylene-d12	264	21.956	21.956	(1.000)	1343563	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.525	23.525	(1.071)	2226790	25.0000	27.95
79	Dibenzo(a,h)anthracene	278	23.542	23.542	(1.072)	1830479	25.0000	28.58
80	Benzo(g,h,i)perylene	276	23.959	23.959	(1.091)	1985501	25.0000	29.16
90	N-Nitrosodimethylamine	74	3.587	3.587	(0.438)	332934	25.0000	23.08
103	Pyridine	79	3.552	3.552	(0.434)	589073	25.0000	23.68
91	Aniline	93	7.740	7.740	(0.946)	862736	25.0000	24.20
105	1-methylnaphthalene	142	11.547	11.547	(1.129)	1272333	25.0000	23.70

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08091001.d
Lab Smp Id: CC0809
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100809.b/SW846100719.m
Misc Info: 10-

Calibration Date: 09-AUG-2010
Calibration Time: 11:11
Client Smp ID: CC0809
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	495142	38.90
27 Naphthalene-d8	1293412	646706	2586824	1699495	31.40
42 Acenaphthene-d10	785897	392948	1571794	1046083	33.11
59 Phenanthrene-d10	1313990	656995	2627980	1723172	31.14
69 Chrysene-d12	1155293	577646	2310586	1338566	15.86
134 Di-n-octylphthala	1825297	912648	3650594	1910241	4.65
77 Perylene-d12	1146289	573144	2292578	1343563	17.21

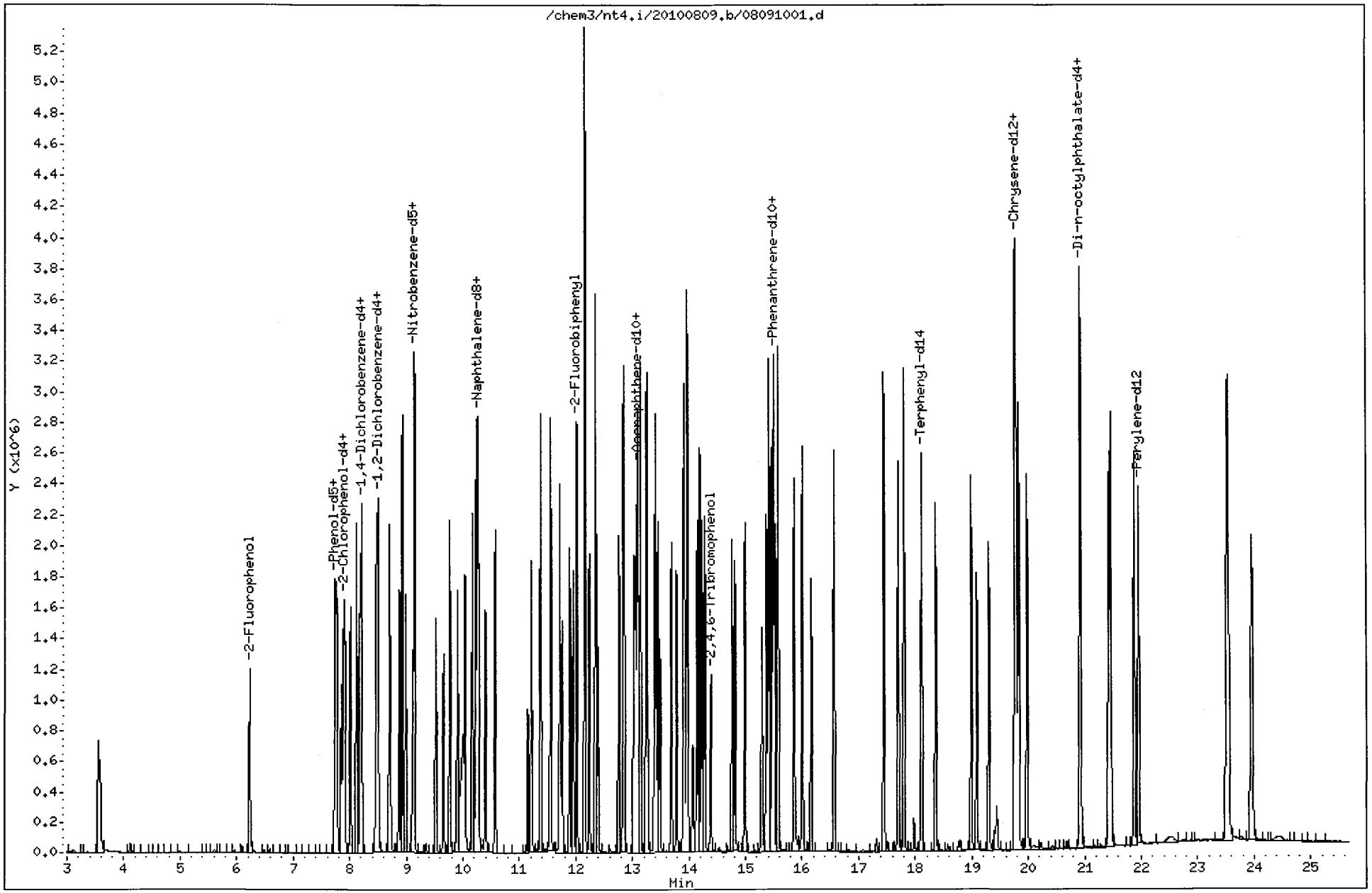
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.18	7.68	8.68	8.18	0.00
27 Naphthalene-d8	10.22	9.72	10.72	10.22	0.00
42 Acenaphthene-d10	13.09	12.59	13.59	13.09	0.00
59 Phenanthrene-d10	15.47	14.97	15.97	15.47	0.00
69 Chrysene-d12	19.79	19.29	20.29	19.79	0.00
134 Di-n-octylphthala	20.92	20.42	21.42	20.92	0.00
77 Perylene-d12	21.96	21.46	22.46	21.96	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100809.b/08091001.d
Date : 09-AUG-2010 11:11
Client ID: CC0809
Sample Info: CC0809

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RF71:00361

Data File: /chem3/nt4.i/20100809.b/tune.b/08091001.d

Date : 09-AUG-2010 11:11

Client ID: DFTPP0809

Instrument: nt4.i

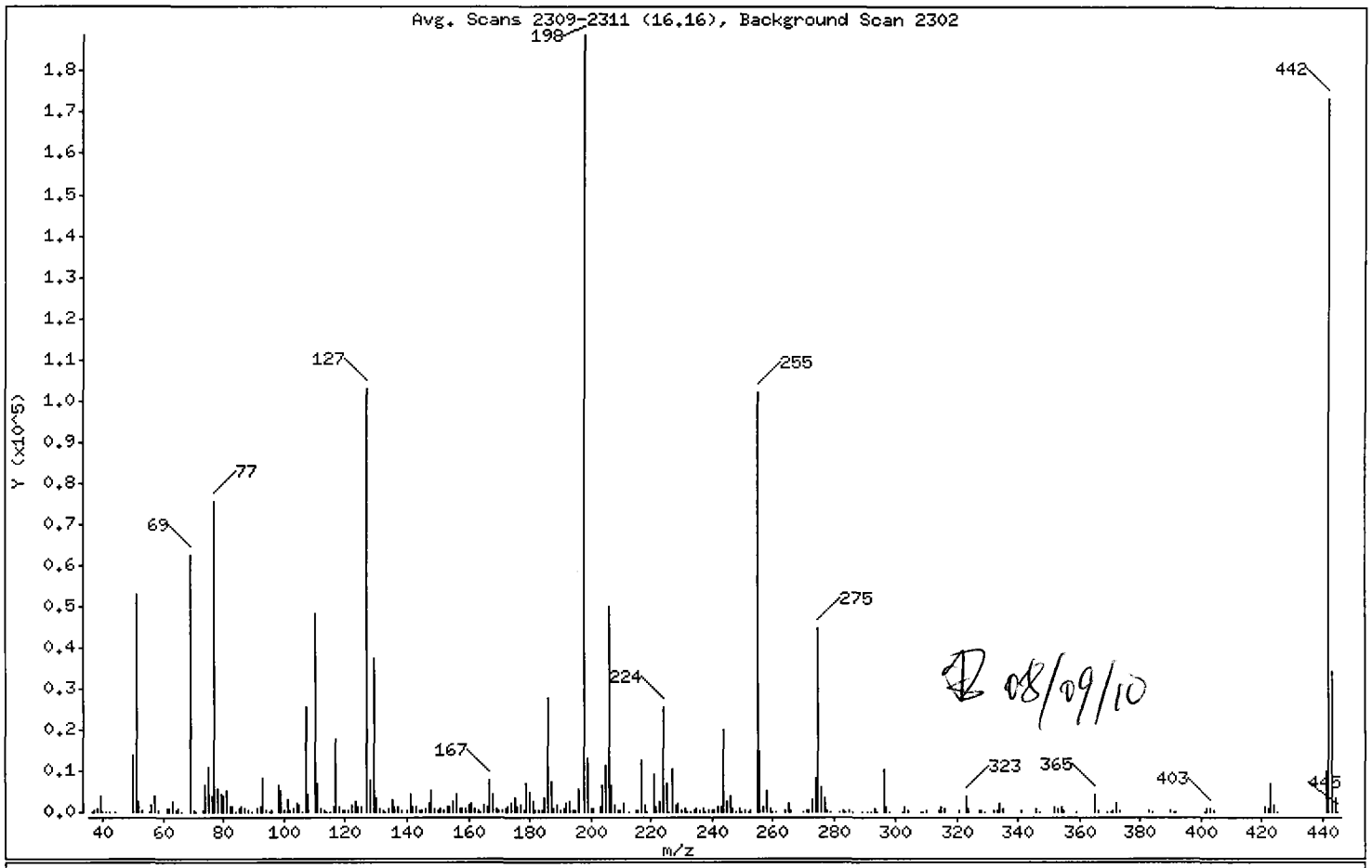
Sample Info: DFTPP0809

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	28.06
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	33.18
70	Less than 2.00% of mass 69	0.21 (0.65)
127	10.00 - 80.00% of mass 198	54.58
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	23.63
365	Greater than 1.00% of mass 198	2.22
441	0.01 - 24.00% of mass 442	5.33 (5.79)
442	50.00 - 200.00% of mass 198	92.04
443	15.00 - 24.00% of mass 442	18.24 (19.82)

Date : 09-AUG-2010 11:11

Client ID: DFTPP0809 Instrument: nt4.i

Sample Info: DFTPP0809

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 08091001.d
Spectrum: Avg. Scans 2309-2311 (16.16), Background Scan 2302
Location of Maximum: 198.00
Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	64	122.00	1686	195.00	385	277.00	3430
37.00	312	123.00	2724	196.00	5683	278.00	575
38.00	696	124.00	1092	198.00	188864	279.00	131
39.00	3855	125.00	1250	199.00	12957	282.00	51
40.00	161	127.00	103088	200.00	1037	283.00	430
41.00	25	128.00	7931	201.00	966	284.00	161
42.00	58	129.00	37312	203.00	1242	285.00	625
44.00	141	130.00	3281	204.00	6399	286.00	61
50.00	13971	131.00	704	205.00	11280	289.00	181
51.00	52992	132.00	397	206.00	49768	291.00	52
52.00	2615	133.00	109	207.00	6603	292.00	65
53.00	237	134.00	1061	208.00	1570	293.00	844
55.00	41	135.00	2932	209.00	500	294.00	101
56.00	1822	136.00	1335	210.00	559	296.00	10589
57.00	3998	137.00	1374	211.00	2207	297.00	1329
58.00	256	138.00	515	213.00	130	298.00	72
61.00	798	140.00	448	215.00	587	302.00	63
62.00	895	141.00	4427	216.00	609	303.00	1295
63.00	2626	142.00	1338	217.00	12497	304.00	469
64.00	462	143.00	1165	218.00	1644	308.00	137
65.00	1023	144.00	300	219.00	214	309.00	82
66.00	60	145.00	327	221.00	9223	310.00	227
69.00	62672	146.00	965	222.00	1472	314.00	430
70.00	405	147.00	2190	223.00	2806	315.00	1189
71.00	135	148.00	5294	224.00	25728	316.00	771
73.00	503	149.00	1046	225.00	6826	321.00	443
74.00	6519	150.00	375	226.00	167	323.00	3738
75.00	10729	151.00	825	227.00	10257	324.00	657
76.00	3917	152.00	337	228.00	1635	327.00	617
77.00	75544	153.00	1491	229.00	2364	328.00	401
78.00	5494	154.00	1293	230.00	478	329.00	132
79.00	4356	155.00	2808	231.00	979	332.00	296
80.00	3991	156.00	4137	232.00	163	333.00	411
81.00	5364	157.00	923	233.00	65	334.00	2125
82.00	1463	158.00	865	234.00	637	335.00	688

Date : 09-AUG-2010 11:11

Client ID: DFTPP0809 Instrument: nt4.i

Sample Info: DFTPP0809

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 08091001.d
Spectrum: Avg. Scans 2309-2311 (16,16), Background Scan 2302
Location of Maximum: 198.00
Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1140	159.00	663	235.00	871	341.00	640
84.00	167	160.00	1592	236.00	415	346.00	767
85.00	934	161.00	2245	237.00	720	347.00	101
86.00	1455	162.00	690	238.00	55	352.00	1096
87.00	745	163.00	309	239.00	410	353.00	811
88.00	309	164.00	170	240.00	338	354.00	1166
89.00	182	165.00	1656	241.00	568	355.00	256
91.00	1073	166.00	1398	242.00	1510	359.00	58
92.00	1446	167.00	7788	243.00	1094	365.00	4190
93.00	8110	168.00	4213	244.00	20128	366.00	618
94.00	578	169.00	847	245.00	2704	369.00	55
95.00	33	170.00	354	246.00	3742	370.00	68
96.00	532	171.00	479	247.00	718	371.00	255
98.00	6395	172.00	944	248.00	149	372.00	2033
99.00	5054	173.00	1173	249.00	653	373.00	523
100.00	435	174.00	2039	250.00	133	383.00	634
101.00	3058	175.00	3600	251.00	275	384.00	68
102.00	249	176.00	1137	252.00	173	390.00	294
103.00	923	177.00	1863	253.00	522	391.00	185
104.00	2137	178.00	372	255.00	101880	392.00	117
105.00	1893	179.00	6885	256.00	14765	401.00	68
106.00	162	180.00	4845	257.00	1201	402.00	827
107.00	25776	181.00	2457	258.00	5057	403.00	1071
108.00	4290	182.00	583	259.00	801	404.00	250
110.00	48136	183.00	307	260.00	68	421.00	1099
111.00	7090	184.00	596	261.00	158	422.00	934
112.00	1017	185.00	3666	264.00	242	423.00	7113
113.00	368	186.00	27624	265.00	2099	424.00	1718
114.00	106	187.00	7416	266.00	458	425.00	143
115.00	138	188.00	805	270.00	187	441.00	10066
116.00	1354	189.00	1522	271.00	278	442.00	173824
117.00	17760	190.00	242	272.00	222	443.00	34448
118.00	1303	191.00	869	273.00	3245	444.00	3366
119.00	221	192.00	2176	274.00	8372	445.00	146
120.00	452	193.00	2541	275.00	44624		

Date : 09-AUG-2010 11:11

Client ID: DFTPP0809 Instrument: nt4.i

Sample Info: DFTPP0809

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 08091001.d
Spectrum: Avg. Scans 2309-2311 (16.16), Background Scan 2302
Location of Maximum: 198.00
Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	218	194.00	542	276.00	6032		

Data File: /chem3/nt4.i/20100809.b/tune.b/08091001.d

Date : 09-AUG-2010 11:11

Client ID: DFTPP0809

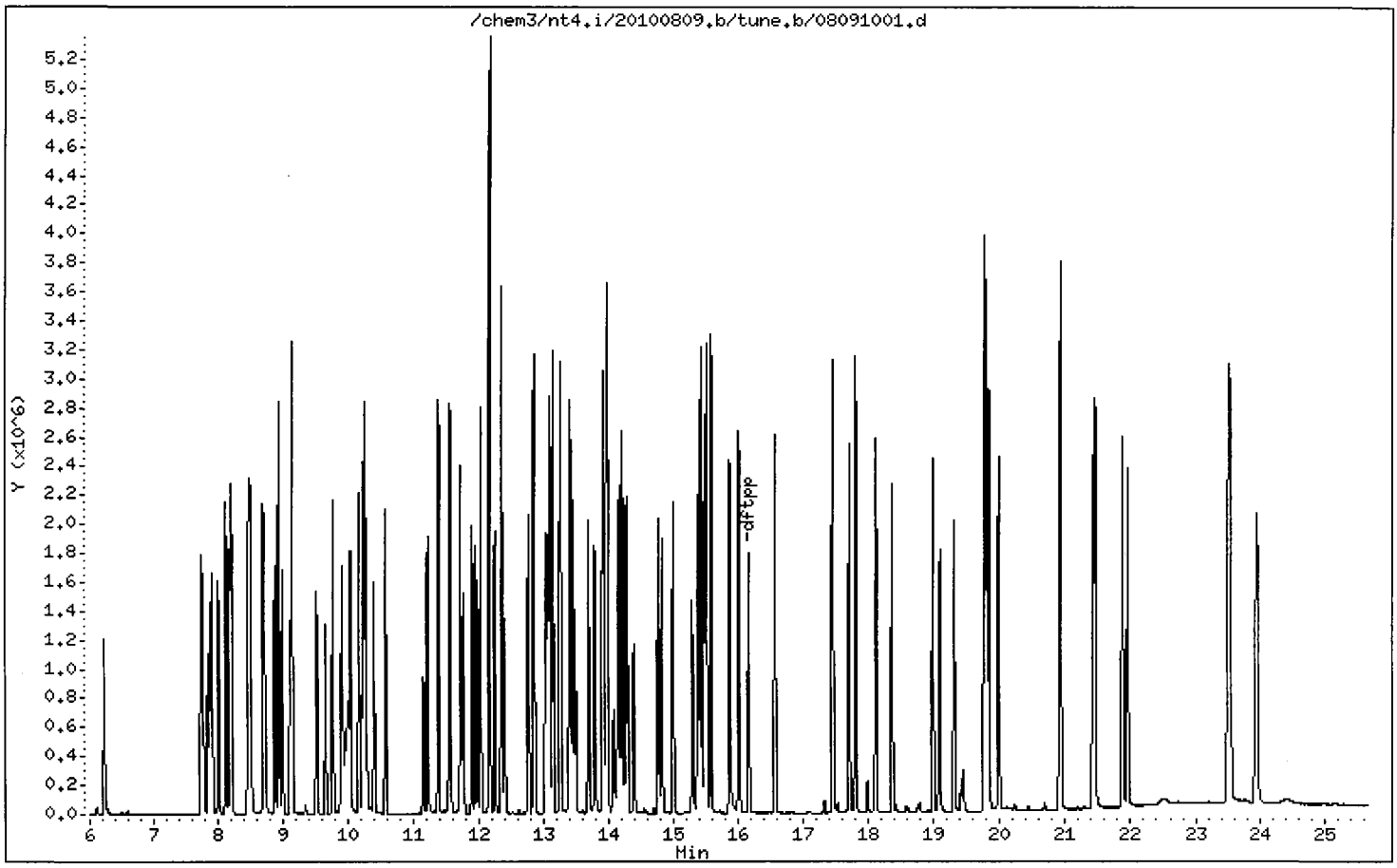
Instrument: nt4.i

Sample Info: DFTPP0809

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100809.b/ddt.b/08091001.d ARI ID: CC0809
Method: /chem3/nt4.i/20100809.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 09-AUG-2010 11:11 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	15.289	258608
Benzidine	13.238	473190
4,4'-DDE	----	----
4,4'-DDD	18.614	6548
4,4'-DDT	19.089	555591

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

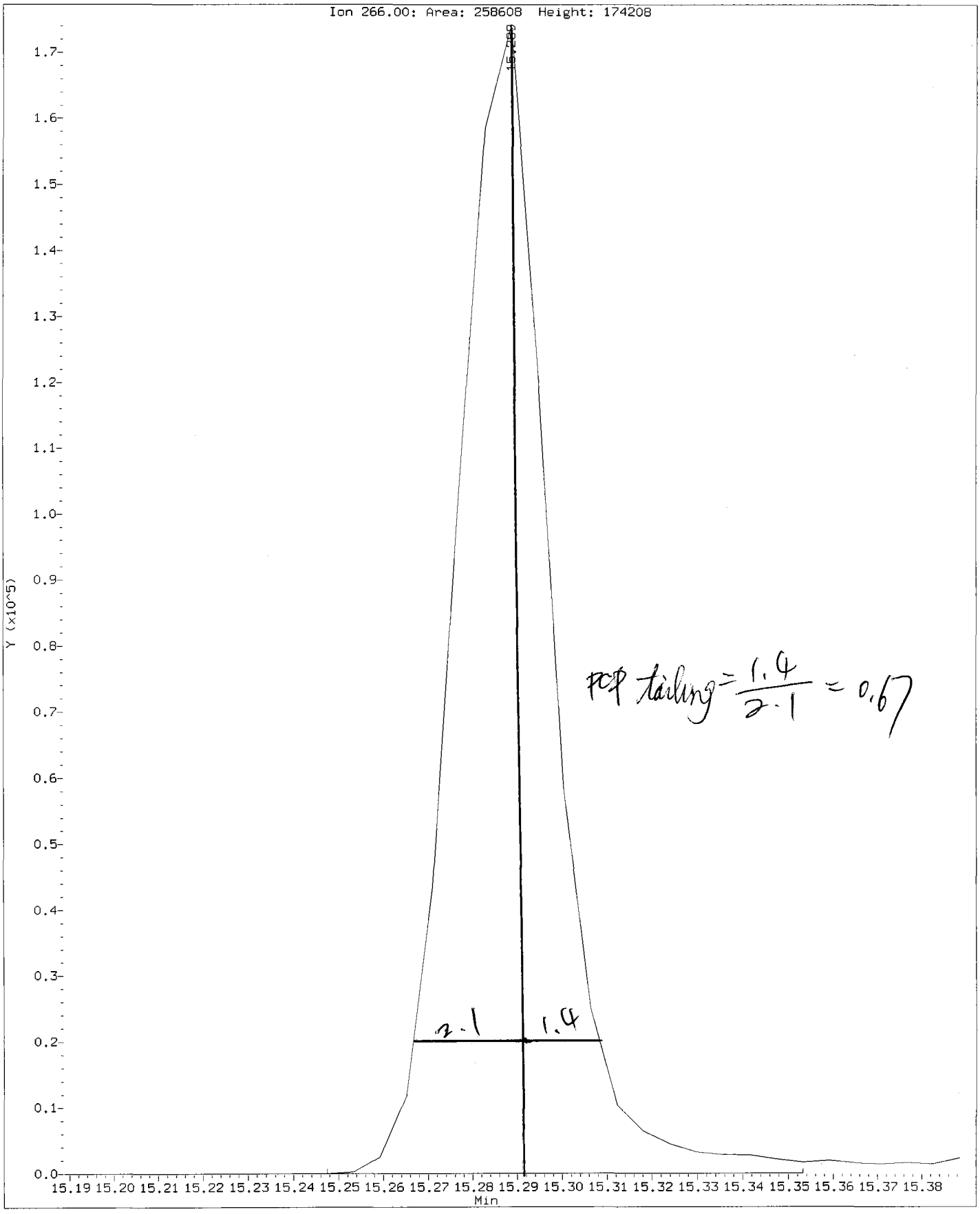
$$\text{DDT Percent Breakdown} = \frac{(0 + 6548) * 100}{(0 + 6548 + 555591)}$$

DDT Percent Breakdown = 1.2 %

08/09/10

Data File: /chem3/nt4.i/20100809.b/ddt.b/08091001.d
Injection Date: 09-AUG-2010 11:11
Instrument: nt4.i
Client Sample ID: CC0809

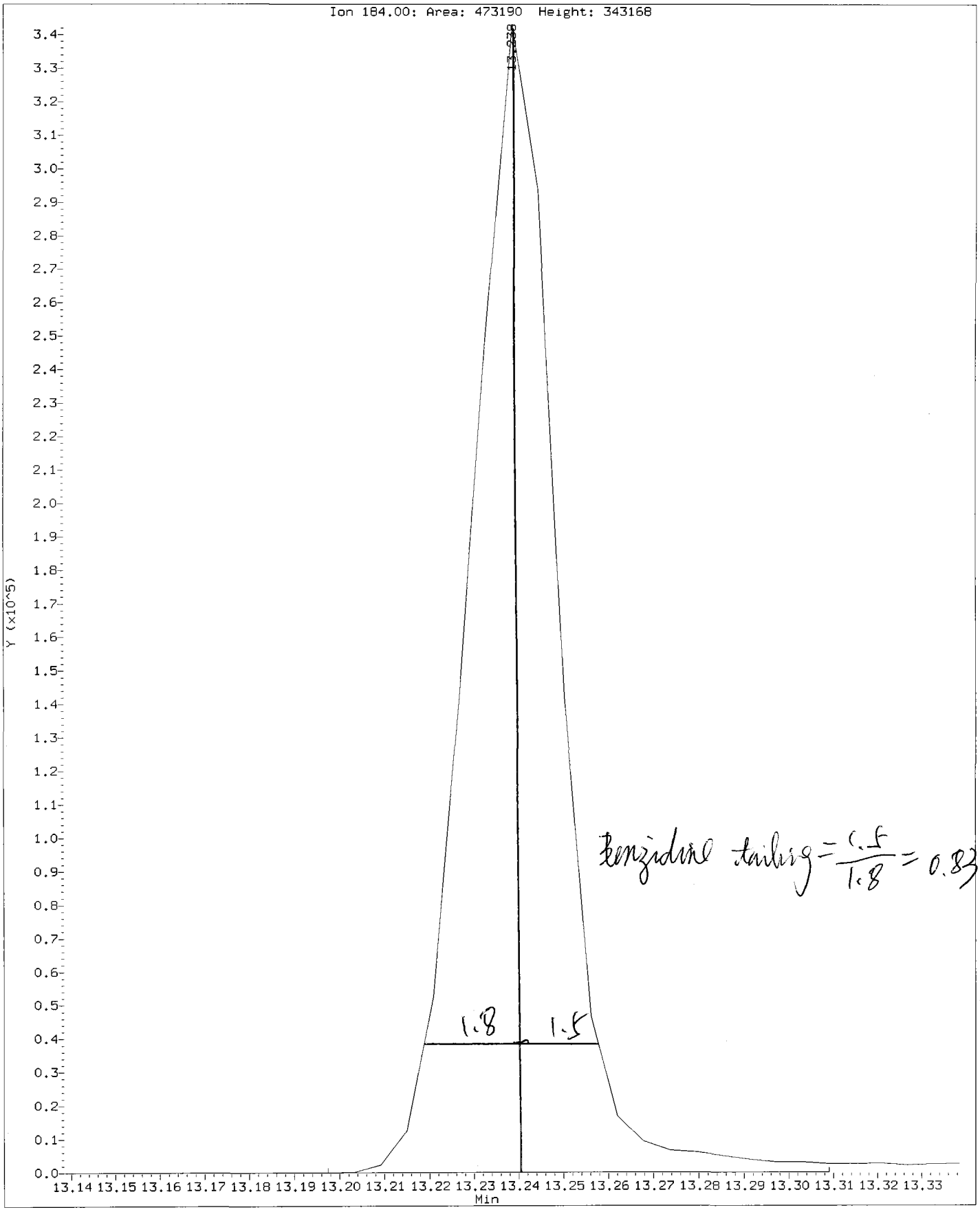
Compound: Pentachlorophenol
CAS Number: 87-86-5



RF71 : 00308

Data File: /chem3/nt4.i/20100809.b/ddt.b/08091001.d
Injection Date: 09-AUG-2010 11:11
Instrument: nt4.i
Client Sample ID: CC0809

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100809.b/08091020.d
Lab Smp Id: RF71LCSS1 Client Smp ID: RF71LCSS1
Inj Date : 09-AUG-2010 22:08
Operator : JZ Inst ID: nt4.i
Smp Info : RF71LCSS1,
Misc Info : 10-17570
Comment : 1ul Injection
Method : /chem3/nt4.i/20100809.b/SW846100719.m
Meth Date : 10-Aug-2010 11:14 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SONICMBLCS.sub
Target Version: 3.50

12 08/10/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 1	2-Fluorophenol	112	6.251	6.230	(0.763)	793574	25.4665	509.3
$ 2	Phenol-d5	99	7.767	7.752	(0.948)	914542	29.8349	596.7
3	Phenol	94	7.784	7.769	(0.950)	592781	14.9444	298.9
$ 5	2-Chlorophenol-d4	132	7.896	7.887	(0.964)	859905	26.1442	522.9
4	Bis(2-Chloroethyl)ether	93	7.855	7.852	(0.959)	424483	14.3498	287.0
6	2-Chlorophenol	128	7.919	7.910	(0.967)	543378	14.3948	287.9
7	1,3-Dichlorobenzene	146	8.125	8.122	(0.992)	539873	12.5875	251.8
* 8	1,4-Dichlorobenzene-d4	152	8.189	8.181	(1.000)	575086	20.0000	
9	1,4-Dichlorobenzene	146	8.213	8.210	(1.003)	547454	12.6376	252.8
$ 10	1,2-Dichlorobenzene-d4	152	8.483	8.480	(1.036)	360249	14.6830	293.7
12	1,2-Dichlorobenzene	146	8.507	8.504	(1.039)	534275	13.2425	264.9
11	Benzyl alcohol	108	8.471	8.463	(1.034)	882529	39.2600	785.2
14	2,2'-oxybis(1-Chloropropane)	45	8.718	8.715	(1.065)	408027	14.6741	293.5
13	2-Methylphenol	108	8.706	8.698	(1.063)	459954	15.1789	303.6
17	Hexachloroethane	117	8.994	8.991	(1.098)	119470	7.44606	148.9(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	8.936	8.938	(1.091)	284516	13.7177	274.4
	15 4-Methylphenol	108	8.941	8.927	(1.092)	934526	29.7123	594.2
$	18 Nitrobenzene-d5	82	9.112	9.115	(0.890)	492251	16.4073	328.1
	19 Nitrobenzene	77	9.141	9.144	(0.893)	438807	14.7724	295.4
	20 Isophorone	82	9.523	9.520	(0.931)	832107	16.8678	337.4
	21 2-Nitrophenol	139	9.658	9.655	(0.944)	244412	13.1698	263.4
	22 2,4-Dimethylphenol	107	9.770	9.767	(0.955)	503941	15.2519	305.0
	23 Bis(2-Chloroethoxy)methane	93	9.911	9.908	(0.968)	530255	15.4220	308.4
	24 Benzoic acid	105	10.058	10.013	(0.983)	1736182	65.3391	1307
	25 2,4-Dichlorophenol	162	10.046	10.043	(0.982)	471801	16.2535	325.1
	26 1,2,4-Trichlorobenzene	180	10.175	10.166	(0.994)	463159	14.3274	286.5
*	27 Naphthalene-d8	136	10.234	10.225	(1.000)	1938445	20.0000	
	28 Naphthalene	128	10.263	10.254	(1.003)	1429940	15.5467	310.9
	29 4-Chloroaniline	127	10.404	10.401	(1.017)	1606257	43.7970	875.9
	30 Hexachlorobutadiene	225	10.574	10.572	(1.033)	254162	13.8580	277.2
	31 4-Chloro-3-methylphenol	107	11.221	11.212	(1.096)	464376	17.4453	348.9
	32 2-Methylnaphthalene	142	11.385	11.376	(1.113)	1000759	16.0103	320.2
	33 Hexachlorocyclopentadiene	237	11.761	11.758	(0.898)	196843	11.0740	221.5(R)
	34 2,4,6-Trichlorophenol	196	11.902	11.893	(0.909)	366895	16.7769	335.5
	35 2,4,5-Trichlorophenol	196	11.961	11.952	(0.913)	398520	17.8991	358.0
$	36 2-Fluorobiphenyl	172	12.025	12.022	(0.918)	1257335	16.8957	337.9
	37 2-Chloronaphthalene	162	12.161	12.158	(0.928)	1018774	15.4188	308.4
	38 2-Nitroaniline	65	12.396	12.393	(0.946)	283195	22.1998	444.0
	39 Dimethylphthalate	163	12.766	12.763	(0.974)	1250539	16.1130	322.3
	40 Acenaphthylene	152	12.842	12.839	(0.980)	1669693	16.7530	335.1
	41 2,6-Dinitrotoluene	165	12.860	12.857	(0.982)	281262	16.1052	322.1
*	42 Acenaphthene-d10	164	13.100	13.092	(1.000)	1214863	20.0000	
	43 3-Nitroaniline	138	13.083	13.074	(0.999)	904679	58.7491	1175
	44 Acenaphthene	153	13.147	13.144	(1.004)	1016358	15.6630	313.3
	45 2,4-Dinitrophenol	184	13.241	13.238	(1.011)	65041	6.70694	134.1(R)
	46 Dibenzofuran	168	13.406	13.403	(1.023)	1501119	17.3549	347.1
	47 4-Nitrophenol	109	13.394	13.385	(1.022)	176809	16.2429	324.9
	48 2,4-Dinitrotoluene	165	13.494	13.485	(1.030)	371238	16.1215	322.4
	50 Diethylphthalate	149	13.917	13.914	(1.062)	1291556	16.0874	321.7
	49 Fluorene	166	13.964	13.961	(1.066)	1278309	17.0811	341.6
	51 4-Chlorophenyl-phenylether	204	13.988	13.979	(1.068)	604639	16.6579	333.2
	52 4-Nitroaniline	138	14.076	14.067	(1.074)	397340	23.8176	476.4
	53 4,6-Dinitro-2-methylphenol	198	14.146	14.143	(0.914)	109636	7.42552	148.5(R)
	54 N-Nitrosodiphenylamine	169	14.193	14.190	(0.917)	985311	16.3240	326.5
$	55 2,4,6-Tribromophenol	330	14.393	14.384	(1.099)	297794	34.2779	685.6
	56 4-Bromophenyl-phenylether	248	14.769	14.766	(0.954)	374664	17.1280	342.6
	57 Hexachlorobenzene	284	14.998	14.989	(0.969)	388435	17.3367	346.7
	58 Pentachlorophenol	266	15.297	15.289	(0.988)	256091	16.7751	335.5
*	59 Phenanthrene-d10	188	15.480	15.471	(1.000)	2139857	20.0000	
	60 Phenanthrene	178	15.515	15.506	(1.002)	1933775	17.4446	348.9
	61 Anthracene	178	15.585	15.576	(1.007)	1963111	17.3114	346.2
	62 Carbazole	167	15.873	15.858	(1.025)	1944855	18.8737	377.5

08/10/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
63	Di-n-butylphthalate	149	16.572	16.563	(1.071)	2278687	17.3430	346.9
64	Fluoranthene	202	17.459	17.445	(1.128)	2111565	18.3848	367.7
65	Pyrene	202	17.812	17.803	(0.899)	2124688	24.7834	495.7
$ 66	Terphenyl-d14	244	18.117	18.108	(0.915)	1479875	28.2678	565.4
67	Butylbenzylphthalate	149	18.992	18.990	(0.959)	1081858	24.8662	497.3
68	Benzo(a)anthracene	228	19.780	19.765	(0.999)	1447707	18.2669	365.3
* 69	Chrysene-d12	240	19.803	19.794	(1.000)	1352005	20.0000	
70	3,3'-Dichlorobenzidine	252	19.786	19.771	(0.999)	1597529	62.3249	1246
71	Chrysene	228	19.844	19.835	(1.002)	1383270	17.8329	356.7
72	bis(2-Ethylhexyl)phthalate	149	19.991	19.982	(0.955)	1460155	22.7637	455.3
* 134	Di-n-octylphthalate-d4	153	20.925	20.916	(1.000)	2259308	20.0000	
73	Di-n-octylphthalate	149	20.931	20.922	(1.000)	1978622	17.6147	352.3
74	Benzo(b)fluoranthene	252	21.436	21.427	(0.976)	837914	21.0493	421.0
75	Benzo(k)fluoranthene	252	21.466	21.457	(0.977)	948948	23.5333	470.7
76	Benzo(a)pyrene	252	21.883	21.874	(0.996)	600029	16.9923	339.8
* 77	Perylene-d12	264	21.965	21.956	(1.000)	639519	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.533	23.525	(1.071)	531761	14.0242	280.5
79	Dibenzo(a,h)anthracene	278	23.551	23.542	(1.072)	449719	14.7535	295.1
80	Benzo(g,h,i)perylene	276	23.968	23.959	(1.091)	401824	12.3976	248.0
90	N-Nitrosodimethylamine	74	3.654	3.587	(0.446)	226952	13.5469	270.9
91	Aniline	93	7.743	7.740	(0.945)	1668569	40.3013	806.0
93	Benzidine	184	17.700	17.691	(0.894)	612178	24.7145	494.3
103	Pyridine	79	3.637	3.552	(0.444)	319746	11.0670	221.3
105	1-methylnaphthalene	142	11.556	11.547	(1.129)	1002051	16.3649	327.3
111	Azobenzene (1,2-DP-Hydrazine)	77	14.240	14.231	(1.087)	998218	16.6248	332.5

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08091020.d
Lab Smp Id: RF71LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100809.b/SW846100719.m
Misc Info: 10-17570

Calibration Date: 09-AUG-2010
Calibration Time: 11:11
Client Smp ID: RF71LCSS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	575086	61.32
27 Naphthalene-d8	1293412	646706	2586824	1938445	49.87
42 Acenaphthene-d10	785897	392948	1571794	1214863	54.58
59 Phenanthrene-d10	1313990	656995	2627980	2139857	62.85
69 Chrysene-d12	1155293	577646	2310586	1352005	17.03
134 Di-n-octylphthala	1825297	912648	3650594	2259308	23.78
77 Perylene-d12	1146289	573144	2292578	639519	-44.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.18	7.68	8.68	8.19	0.11
27 Naphthalene-d8	10.22	9.72	10.72	10.23	0.09
42 Acenaphthene-d10	13.09	12.59	13.59	13.10	0.07
59 Phenanthrene-d10	15.47	14.97	15.97	15.48	0.06
69 Chrysene-d12	19.79	19.29	20.29	19.80	0.04
134 Di-n-octylphthala	20.92	20.42	21.42	20.93	0.04
77 Perylene-d12	21.96	21.46	22.46	21.96	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: RF71LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: SONICLCS.spk
Sublist File: SONICMBLCS.sub
Method File: /chem3/nt4.i/20100809.b/SW846100719.m
Misc Info: 10-17570

Client SDG: RF71
Fraction: SV
Client Smp ID: RF71LCSS1
Operator: JZ
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	298.9	59.78	48-100
4 Bis(2-Chloroethyl)	500.0	287.0	57.40	32-100
6 2-Chlorophenol	500.0	287.9	57.58	44-100
7 1,3-Dichlorobenzen	500.0	251.8	50.35	39-100
9 1,4-Dichlorobenzen	500.0	252.8	50.55	40-100
11 Benzyl alcohol	1000	785.2	78.52	10-100
12 1,2-Dichlorobenzen	500.0	264.9	52.97	42-100
13 2-Methylphenol	500.0	303.6	60.72	44-100
14 2,2'-oxybis(1-Chlo	500.0	293.5	58.70	21-100
15 4-Methylphenol	1000	594.2	59.42	45-100
16 N-Nitroso-di-n-pro	500.0	274.4	54.87	36-100
17 Hexachloroethane	500.0	148.9	29.78*	35-100
19 Nitrobenzene	500.0	295.4	59.09	27-102
20 Isophorone	500.0	337.4	67.47	47-100
21 2-Nitrophenol	500.0	263.4	52.68	46-100
22 2,4-Dimethylphenol	500.0	305.0	61.01	41-100
23 Bis(2-Chloroethoxy	500.0	308.4	61.69	40-100
24 Benzoic acid	1500	1307	87.12	10-138
25 2,4-Dichlorophenol	500.0	325.1	65.01	48-100
26 1,2,4-Trichloroben	500.0	286.5	57.31	43-100
28 Naphthalene	500.0	310.9	62.19	44-100
29 4-Chloroaniline	1200	875.9	72.99	16-100
30 Hexachlorobutadien	500.0	277.2	55.43	40-100
31 4-Chloro-3-methylp	500.0	348.9	69.78	50-100
32 2-Methylnaphthalen	500.0	320.2	64.04	48-100
33 Hexachlorocyclopen	1500	221.5	14.77*	20-114
34 2,4,6-Trichlorophe	500.0	335.5	67.11	51-100
35 2,4,5-Trichlorophe	500.0	358.0	71.60	50-100
37 2-Chloronaphthalen	500.0	308.4	61.68	48-100
38 2-Nitroaniline	500.0	444.0	88.80	45-100
39 Dimethylphthalate	500.0	322.3	64.45	53-100
40 Acenaphthylene	500.0	335.1	67.01	50-100
41 2,6-Dinitrotoluene	500.0	322.1	64.42	54-100

	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43	3-Nitroaniline	1280	1175	91.80	22-117
44	Acenaphthene	500.0	313.3	62.65	48-100
45	2,4-Dinitrophenol	1500	134.1	8.94*	12-147
46	Dibenzofuran	500.0	347.1	69.42	53-100
47	4-Nitrophenol	500.0	324.9	64.97	18-107
48	2,4-Dinitrotoluene	500.0	322.4	64.49	57-106
49	Fluorene	500.0	341.6	68.32	54-100
50	Diethylphthalate	500.0	321.7	64.35	52-100
51	4-Chlorophenyl-phe	500.0	333.2	66.63	54-100
52	4-Nitroaniline	500.0	476.4	95.27	27-110
53	4,6-Dinitro-2-meth	1500	148.5	9.90*	21-122
54	N-Nitrosodiphenyla	500.0	326.5	65.30	44-145
56	4-Bromophenyl-phen	500.0	342.6	68.51	52-100
57	Hexachlorobenzene	500.0	346.7	69.35	50-100
58	Pentachlorophenol	500.0	335.5	67.10	45-100
60	Phenanthrene	500.0	348.9	69.78	53-100
61	Anthracene	500.0	346.2	69.25	49-100
62	Carbazole	500.0	377.5	75.49	45-111
63	Di-n-butylphthalat	500.0	346.9	69.37	55-106
64	Fluoranthene	500.0	367.7	73.54	54-105
65	Pyrene	500.0	495.7	99.13	48-106
67	Butylbenzylphthala	500.0	497.3	99.46	46-111
68	Benzo(a)anthracene	500.0	365.3	73.07	51-101
70	3,3'-Dichlorobenzi	1280	1246	97.38	10-112
71	Chrysene	500.0	356.7	71.33	56-100
72	bis(2-Ethylhexyl)p	500.0	455.3	91.05	57-114
73	Di-n-octylphthalat	500.0	352.3	70.46	56-100
74	Benzo(b)fluoranthe	500.0	421.0	84.20	43-122
75	Benzo(k)fluoranthe	500.0	470.7	94.13	44-122
76	Benzo(a)pyrene	500.0	339.8	67.97	51-100
78	Indeno(1,2,3-cd)py	500.0	280.5	56.10	38-104
79	Dibenzo(a,h)anthra	500.0	295.1	59.01	41-107
80	Benzo(g,h,i)peryle	500.0	248.0	49.59	36-107
91	Aniline	1220	806.0	66.07	10-100
111	Azobenzene (1,2-DP	500.0	332.5	66.50	48-101
90	N-Nitrosodimethyla	500.0	270.9	54.19	31-100
105	1-methylnaphthalen	500.0	327.3	65.46	48-100
103	Pyridine	500.0	221.3	44.27	10-100

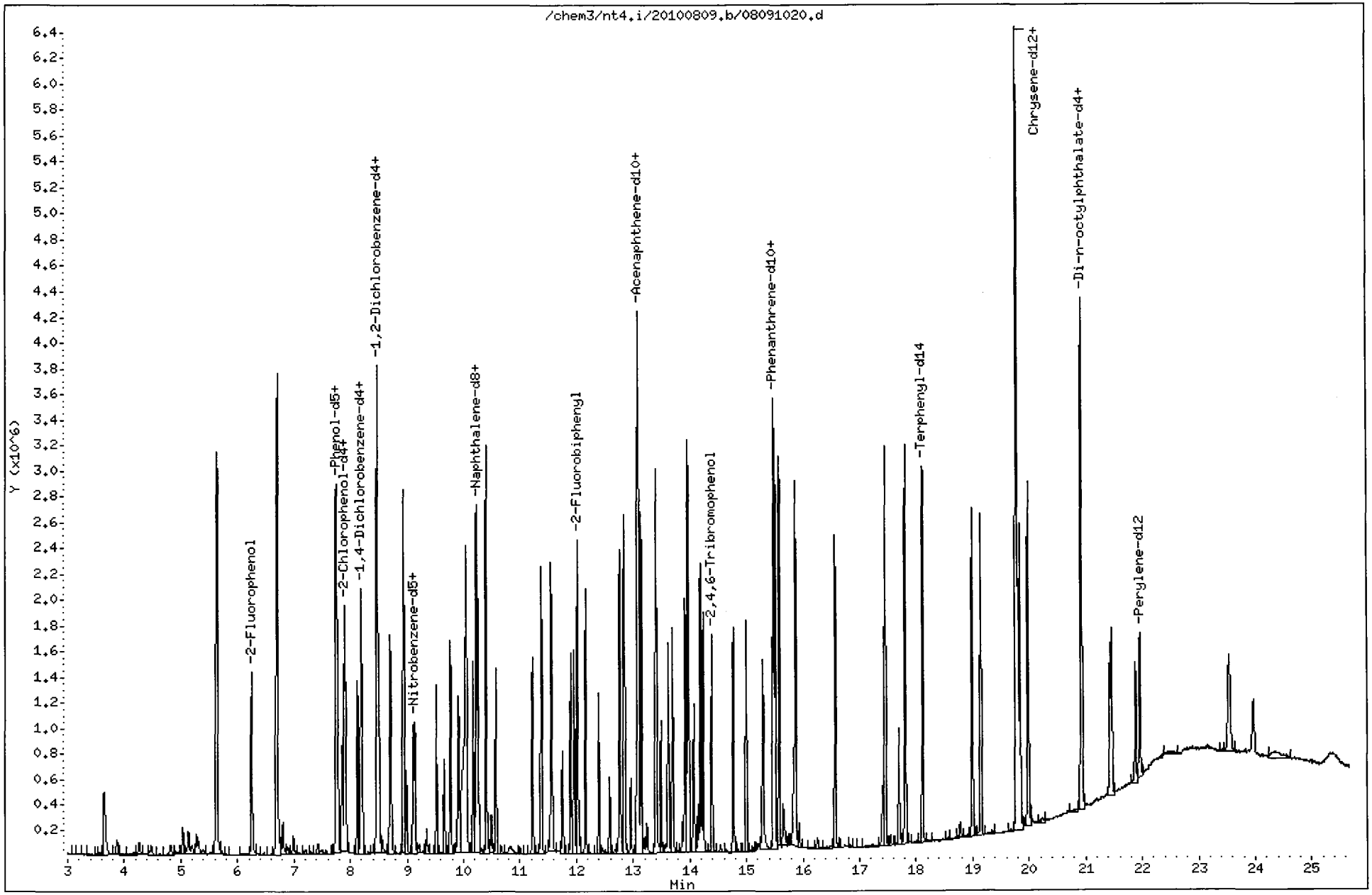
	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	750.0	509.3	67.91	38-112
$ 2	Phenol-d5	750.0	596.7	79.56	44-110

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 5 2-Chlorophenol-d4	750.0	522.9	69.72	50-103
$ 10 1,2-Dichlorobenzen	500.0	293.7	58.73	48-104
$ 18 Nitrobenzene-d5	500.0	328.1	65.63	46-102
$ 36 2-Fluorobiphenyl	500.0	337.9	67.58	51-105
$ 55 2,4,6-Tribromophen	750.0	685.6	91.41	54-120
$ 66 Terphenyl-d14	500.0	565.4	113.07	55-124

Data File: /chem3/nt4.i/20100809.b/08091020.d
Date : 09-AUG-2010 22:08
Client ID: RF71LCSS1
Sample Info: RF71LCSS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RF71:69317



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100809.b/08091021.d
Lab Smp Id: RF71LCSDS1 Client Smp ID: RF71LCSDS1
Inj Date : 09-AUG-2010 22:42
Operator : JZ Inst ID: nt4.i
Smp Info : RF71LCSDS1,
Misc Info : 10-17570
Comment : 1ul Injection
Method : /chem3/nt4.i/20100809.b/SW846100719.m
Meth Date : 10-Aug-2010 11:14 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 21 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SONICMBLCS.sub
Target Version: 3.50

08/10/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	6.245	6.230	(0.763)	860757	26.4758	529.5
$	2 Phenol-d5	99	7.761	7.752	(0.948)	850784	26.6028	532.1
	3 Phenol	94	7.778	7.769	(0.950)	539195	13.0291	260.6
$	5 2-Chlorophenol-d4	132	7.890	7.887	(0.964)	812885	23.6886	473.8
	4 Bis(2-Chloroethyl)ether	93	7.849	7.852	(0.959)	417827	13.5384	270.8
	6 2-Chlorophenol	128	7.913	7.910	(0.967)	521570	13.2435	264.9
	7 1,3-Dichlorobenzene	146	8.125	8.122	(0.993)	632762	14.1408	282.8
*	8 1,4-Dichlorobenzene-d4	152	8.184	8.181	(1.000)	599994	20.0000	
	9 1,4-Dichlorobenzene	146	8.213	8.210	(1.004)	647906	14.3356	286.7
$	10 1,2-Dichlorobenzene-d4	152	8.483	8.480	(1.037)	399442	15.6045	312.1
	12 1,2-Dichlorobenzene	146	8.507	8.504	(1.039)	611358	14.5241	290.5
	11 Benzyl alcohol	108	8.471	8.463	(1.035)	875671	37.3378	746.8
	14 2,2'-oxybis(1-Chloropropane)	45	8.718	8.715	(1.065)	418246	14.4171	288.3
	13 2-Methylphenol	108	8.706	8.698	(1.064)	444858	14.0713	281.4
	17 Hexachloroethane	117	8.988	8.991	(1.098)	146060	8.72540	174.5(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	8.935	8.938	(1.092)	287456	13.2841	265.7
	15 4-Methylphenol	108	8.941	8.927	(1.093)	909673	27.7215	554.4
$	18 Nitrobenzene-d5	82	9.112	9.115	(0.891)	479678	16.1458	322.9
	19 Nitrobenzene	77	9.141	9.144	(0.894)	441038	14.9938	299.9
	20 Isophorone	82	9.523	9.520	(0.931)	825424	16.8973	337.9
	21 2-Nitrophenol	139	9.658	9.655	(0.944)	245431	13.3550	267.1
	22 2,4-Dimethylphenol	107	9.770	9.767	(0.955)	491220	15.0135	300.3
	23 Bis(2-Chloroethoxy)methane	93	9.911	9.908	(0.969)	518230	15.2208	304.4
	24 Benzoic acid	105	10.057	10.013	(0.983)	1704855	64.7925	1296
	25 2,4-Dichlorophenol	162	10.046	10.043	(0.982)	458209	15.9408	318.8
	26 1,2,4-Trichlorobenzene	180	10.175	10.166	(0.995)	522469	16.3214	326.4
*	27 Naphthalene-d8	136	10.228	10.225	(1.000)	1919526	20.0000	
	28 Naphthalene	128	10.263	10.254	(1.003)	1515285	16.6369	332.7
	29 4-Chloroaniline	127	10.404	10.401	(1.017)	1599293	44.0369	880.7
	30 Hexachlorobutadiene	225	10.574	10.572	(1.034)	291549	16.0532	321.1
	31 4-Chloro-3-methylphenol	107	11.221	11.212	(1.097)	464707	17.6298	352.6
	32 2-Methylnaphthalene	142	11.385	11.376	(1.113)	1078087	17.4174	348.3
	33 Hexachlorocyclopentadiene	237	11.761	11.758	(0.898)	240013	13.0448	260.9(R)
	34 2,4,6-Trichlorophenol	196	11.902	11.893	(0.909)	403291	17.8159	356.3
	35 2,4,5-Trichlorophenol	196	11.961	11.952	(0.913)	407603	17.6864	353.7
$	36 2-Fluorobiphenyl	172	12.025	12.022	(0.918)	1312987	17.0453	340.9
	37 2-Chloronaphthalene	162	12.161	12.158	(0.928)	1092284	15.9708	319.4
	38 2-Nitroaniline	65	12.396	12.393	(0.946)	295101	22.3487	447.0
	39 Dimethylphthalate	163	12.766	12.763	(0.974)	1244747	15.4946	309.9
	40 Acenaphthylene	152	12.842	12.839	(0.980)	1784412	17.2970	345.9
	41 2,6-Dinitrotoluene	165	12.860	12.857	(0.982)	287398	15.8986	318.0
*	42 Acenaphthene-d10	164	13.100	13.092	(1.000)	1257498	20.0000	
	43 3-Nitroaniline	138	13.083	13.074	(0.999)	913681	57.3219	1146
	44 Acenaphthene	153	13.147	13.144	(1.004)	1113213	16.5740	331.5
	45 2,4-Dinitrophenol	184	13.241	13.238	(1.011)	56310	5.61722	112.3(R)
	46 Dibenzofuran	168	13.406	13.403	(1.023)	1586218	17.7170	354.3
	47 4-Nitrophenol	109	13.394	13.385	(1.022)	180038	15.9788	319.6
	48 2,4-Dinitrotoluene	165	13.494	13.485	(1.030)	390141	16.3679	327.4
	50 Diethylphthalate	149	13.917	13.914	(1.062)	1347108	16.2105	324.2
	49 Fluorene	166	13.964	13.961	(1.066)	1356921	17.5168	350.3
	51 4-Chlorophenyl-phenylether	204	13.987	13.979	(1.068)	631316	16.8031	336.1
	52 4-Nitroaniline	138	14.076	14.067	(1.074)	403557	23.3701	467.4
	53 4,6-Dinitro-2-methylphenol	198	14.146	14.143	(0.914)	92644	6.08992	121.8(R)
	54 N-Nitrosodiphenylamine	169	14.193	14.190	(0.917)	1023853	16.4631	329.3
$	55 2,4,6-Tribromophenol	330	14.393	14.384	(1.099)	292566	32.5343	650.7
	56 4-Bromophenyl-phenylether	248	14.769	14.766	(0.954)	388819	17.2518	345.0
	57 Hexachlorobenzene	284	14.998	14.989	(0.969)	410068	17.7633	355.3
	58 Pentachlorophenol	266	15.297	15.289	(0.988)	263120	16.7280	334.6
*	59 Phenanthrene-d10	188	15.480	15.471	(1.000)	2204767	20.0000	
	60 Phenanthrene	178	15.515	15.506	(1.002)	2012187	17.6176	352.4
	61 Anthracene	178	15.585	15.576	(1.007)	2061482	17.6437	352.9
	62 Carbazole	167	15.873	15.858	(1.025)	2047529	19.2851	385.7

Q

08/10/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63	Di-n-butylphthalate	149	16.572	16.563	(1.071)	2361203	17.4420	348.8
64	Fluoranthene	202	17.459	17.445	(1.128)	2196863	18.5644	371.3
65	Pyrene	202	17.812	17.803	(0.899)	2220359	24.6759	493.5
$ 66	Terphenyl-d14	244	18.117	18.108	(0.915)	1505105	27.3915	547.8
67	Butylbenzylphthalate	149	18.992	18.990	(0.959)	1146695	25.1114	502.2
68	Benzo(a)anthracene	228	19.774	19.765	(0.999)	1525241	18.3361	366.7
* 69	Chrysene-d12	240	19.803	19.794	(1.000)	1419042	20.0000	
70	3,3'-Dichlorobenzidine	252	19.785	19.771	(0.999)	1688659	62.7680	1255
71	Chrysene	228	19.844	19.835	(1.002)	1472497	18.0864	361.7
72	bis(2-Ethylhexyl)phthalate	149	19.985	19.982	(0.955)	1601532	22.7506	455.0
* 134	Di-n-octylphthalate-d4	153	20.925	20.916	(1.000)	2479492	20.0000	
73	Di-n-octylphthalate	149	20.931	20.922	(1.000)	2168628	17.5918	351.8
74	Benzo(b)fluoranthene	252	21.430	21.427	(0.976)	895078	22.3397	446.8
75	Benzo(k)fluoranthene	252	21.466	21.457	(0.977)	945081	23.2856	465.7
76	Benzo(a)pyrene	252	21.883	21.874	(0.996)	603212	16.9718	339.4
* 77	Perylene-d12	264	21.965	21.956	(1.000)	643690	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.527	23.525	(1.071)	481667	12.6208	252.4
79	Dibenzo(a,h)anthracene	278	23.551	23.542	(1.072)	406587	13.2521	265.0
80	Benzo(g,h,i)perylene	276	23.962	23.959	(1.091)	369719	11.3331	226.7
90	N-Nitrosodimethylamine	74	3.637	3.587	(0.444)	267415	15.2995	306.0(M)
91	Aniline	93	7.743	7.740	(0.946)	1499533	34.7150	694.3
93	Benzidine	184	17.700	17.691	(0.894)	561105	21.5824	431.6
103	Pyridine	79	3.631	3.552	(0.444)	374279	12.4168	248.3(M)
105	1-methylnaphthalene	142	11.555	11.547	(1.130)	1073805	17.7096	354.2
111	Azobenzene (1,2-DP-Hydrazine)	77	14.240	14.231	(1.087)	1049656	16.8888	337.8

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08091021.d
Lab Smp Id: RF71LCSDS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100809.b/SW846100719.m
Misc Info: 10-17570

Calibration Date: 09-AUG-2010
Calibration Time: 11:11
Client Smp ID: RF71LCSDS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	599994	68.31
27 Naphthalene-d8	1293412	646706	2586824	1919526	48.41
42 Acenaphthene-d10	785897	392948	1571794	1257498	60.01
59 Phenanthrene-d10	1313990	656995	2627980	2204767	67.79
69 Chrysene-d12	1155293	577646	2310586	1419042	22.83
134 Di-n-octylphthala	1825297	912648	3650594	2479492	35.84
77 Perylene-d12	1146289	573144	2292578	643690	-43.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.18	7.68	8.68	8.18	0.04
27 Naphthalene-d8	10.22	9.72	10.72	10.23	0.03
42 Acenaphthene-d10	13.09	12.59	13.59	13.10	0.07
59 Phenanthrene-d10	15.47	14.97	15.97	15.48	0.06
69 Chrysene-d12	19.79	19.29	20.29	19.80	0.04
134 Di-n-octylphthala	20.92	20.42	21.42	20.93	0.04
77 Perylene-d12	21.96	21.46	22.46	21.96	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: RF71LCSDS1
Level: LOW
Data Type: MS DATA
SpikeList File: SONICLCS.spk
Sublist File: SONICMBLCS.sub
Method File: /chem3/nt4.i/20100809.b/SW846100719.m
Misc Info: 10-17570

Client SDG: RF71
Fraction: SV
Client Smp ID: RF71LCSDS1
Operator: JZ
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	260.6	52.12	48-100
4 Bis(2-Chloroethyl)	500.0	270.8	54.15	32-100
6 2-Chlorophenol	500.0	264.9	52.97	44-100
7 1,3-Dichlorobenzen	500.0	282.8	56.56	39-100
9 1,4-Dichlorobenzen	500.0	286.7	57.34	40-100
11 Benzyl alcohol	1000	746.8	74.68	10-100
12 1,2-Dichlorobenzen	500.0	290.5	58.10	42-100
13 2-Methylphenol	500.0	281.4	56.29	44-100
14 2,2'-oxybis(1-Chlo	500.0	288.3	57.67	21-100
15 4-Methylphenol	1000	554.4	55.44	45-100
16 N-Nitroso-di-n-pro	500.0	265.7	53.14	36-100
17 Hexachloroethane	500.0	174.5	34.90*	35-100
19 Nitrobenzene	500.0	299.9	59.98	27-102
20 Isophorone	500.0	337.9	67.59	47-100
21 2-Nitrophenol	500.0	267.1	53.42	46-100
22 2,4-Dimethylphenol	500.0	300.3	60.05	41-100
23 Bis(2-Chloroethoxy	500.0	304.4	60.88	40-100
24 Benzoic acid	1500	1296	86.39	10-138
25 2,4-Dichlorophenol	500.0	318.8	63.76	48-100
26 1,2,4-Trichloroben	500.0	326.4	65.29	43-100
28 Naphthalene	500.0	332.7	66.55	44-100
29 4-Chloroaniline	1200	880.7	73.39	16-100
30 Hexachlorobutadien	500.0	321.1	64.21	40-100
31 4-Chloro-3-methylp	500.0	352.6	70.52	50-100
32 2-Methylnaphthalen	500.0	348.3	69.67	48-100
33 Hexachlorocyclopen	1500	260.9	17.39*	20-114
34 2,4,6-Trichlorophe	500.0	356.3	71.26	51-100
35 2,4,5-Trichlorophe	500.0	353.7	70.75	50-100
37 2-Chloronaphthalen	500.0	319.4	63.88	48-100
38 2-Nitroaniline	500.0	447.0	89.39	45-100
39 Dimethylphthalate	500.0	309.9	61.98	53-100
40 Acenaphthylene	500.0	345.9	69.19	50-100
41 2,6-Dinitrotoluene	500.0	318.0	63.59	54-100

	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43	3-Nitroaniline	1280	1146	89.57	22-117
44	Acenaphthene	500.0	331.5	66.30	48-100
45	2,4-Dinitrophenol	1500	112.3	7.49*	12-147
46	Dibenzofuran	500.0	354.3	70.87	53-100
47	4-Nitrophenol	500.0	319.6	63.92	18-107
48	2,4-Dinitrotoluene	500.0	327.4	65.47	57-106
49	Fluorene	500.0	350.3	70.07	54-100
50	Diethylphthalate	500.0	324.2	64.84	52-100
51	4-Chlorophenyl-phe	500.0	336.1	67.21	54-100
52	4-Nitroaniline	500.0	467.4	93.48	27-110
53	4,6-Dinitro-2-meth	1500	121.8	8.12*	21-122
54	N-Nitrosodiphenyla	500.0	329.3	65.85	44-145
56	4-Bromophenyl-phen	500.0	345.0	69.01	52-100
57	Hexachlorobenzene	500.0	355.3	71.05	50-100
58	Pentachlorophenol	500.0	334.6	66.91	45-100
60	Phenanthrene	500.0	352.4	70.47	53-100
61	Anthracene	500.0	352.9	70.57	49-100
62	Carbazole	500.0	385.7	77.14	45-111
63	Di-n-butylphthalat	500.0	348.8	69.77	55-106
64	Fluoranthene	500.0	371.3	74.26	54-105
65	Pyrene	500.0	493.5	98.70	48-106
67	Butylbenzylphthala	500.0	502.2	100.45	46-111
68	Benzo(a)anthracene	500.0	366.7	73.34	51-101
70	3,3'-Dichlorobenzi	1280	1255	98.08	10-112
71	Chrysene	500.0	361.7	72.35	56-100
72	bis(2-Ethylhexyl)p	500.0	455.0	91.00	57-114
73	Di-n-octylphthalat	500.0	351.8	70.37	56-100
74	Benzo(b)fluoranthe	500.0	446.8	89.36	43-122
75	Benzo(k)fluoranthe	500.0	465.7	93.14	44-122
76	Benzo(a)pyrene	500.0	339.4	67.89	51-100
78	Indeno(1,2,3-cd)py	500.0	252.4	50.48	38-104
79	Dibenzo(a,h)anthra	500.0	265.0	53.01	41-107
80	Benzo(g,h,i)peryle	500.0	226.7	45.33	36-107
91	Aniline	1220	694.3	56.91	10-100
111	Azobenzene (1,2-DP	500.0	337.8	67.56	48-101
90	N-Nitrosodimethyla	500.0	306.0	61.20	31-100
105	1-methylnaphthalen	500.0	354.2	70.84	48-100
103	Pyridine	500.0	248.3	49.67	10-100

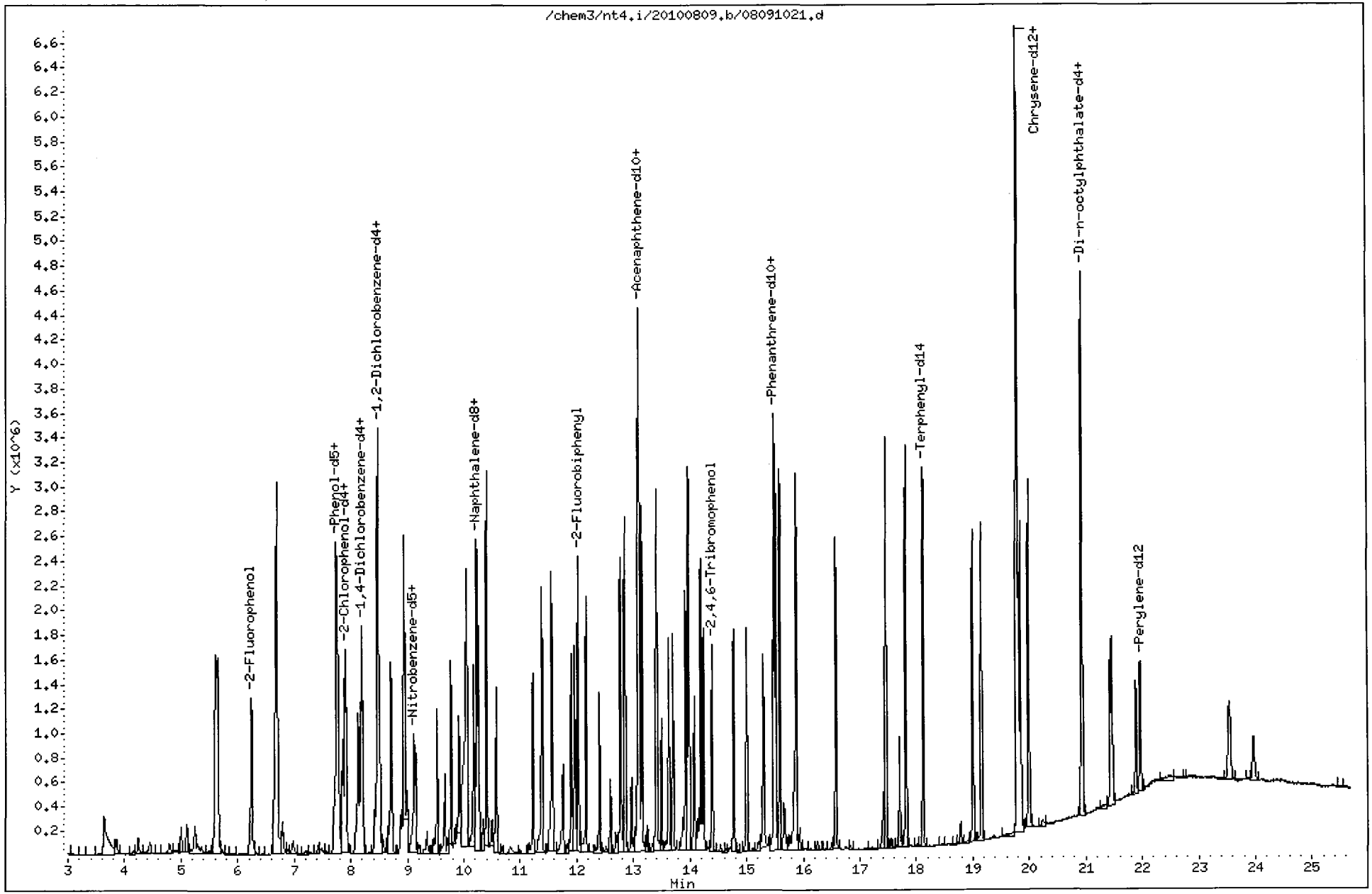
	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	750.0	529.5	70.60	38-112
$ 2	Phenol-d5	750.0	532.1	70.94	44-110

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 5 2-Chlorophenol-d4	750.0	473.8	63.17	50-103
$ 10 1,2-Dichlorobenzen	500.0	312.1	62.42	48-104
$ 18 Nitrobenzene-d5	500.0	322.9	64.58	46-102
$ 36 2-Fluorobiphenyl	500.0	340.9	68.18	51-105
$ 55 2,4,6-Tribromophen	750.0	650.7	86.76	54-120
$ 66 Terphenyl-d14	500.0	547.8	109.57	55-124

Data File: /chem3/nt4.i/20100809.b/08091021.d
Date : 09-AUG-2010 22:42
Client ID: RF71LCSDS1
Sample Info: RF71LCSDS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

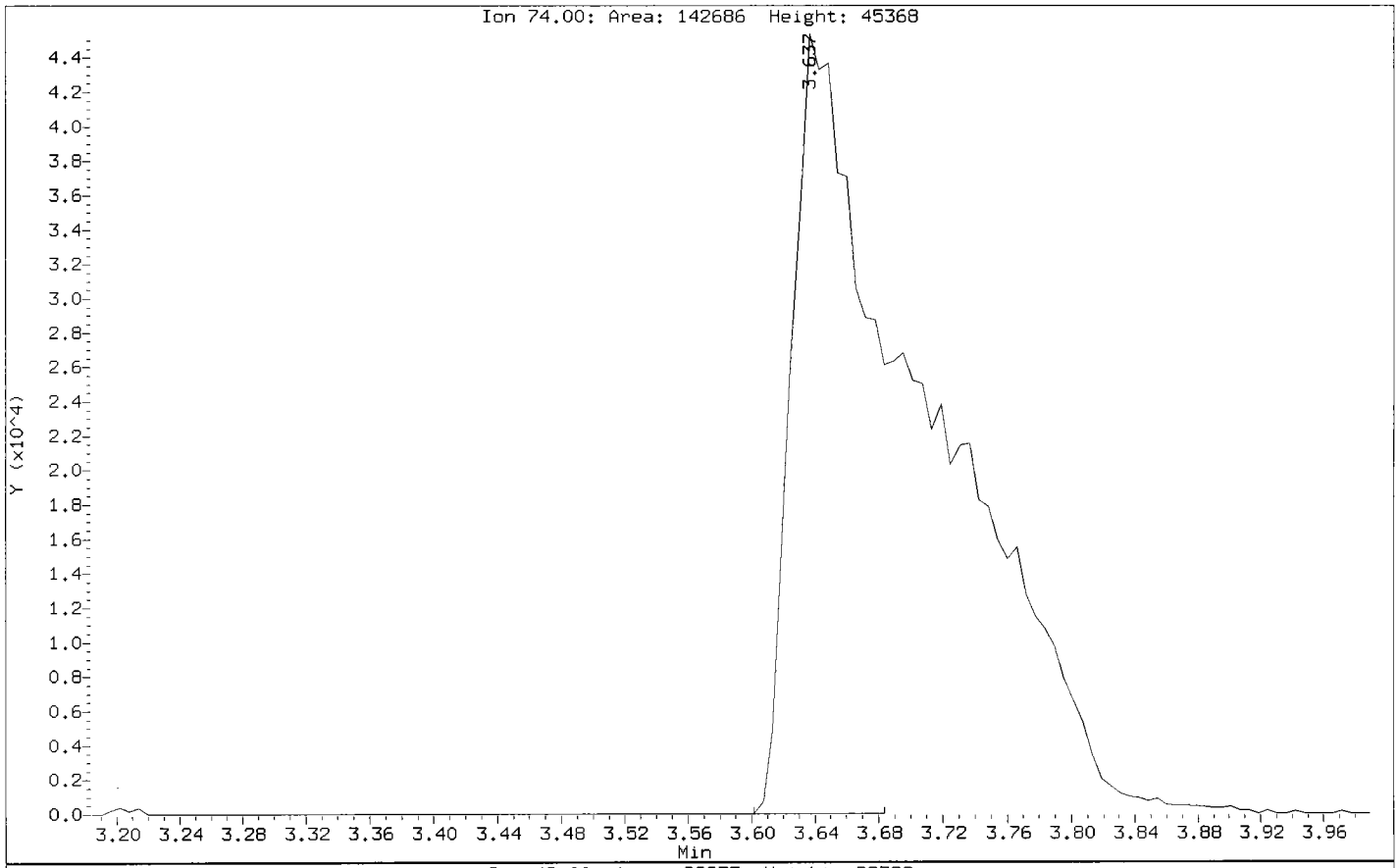
Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

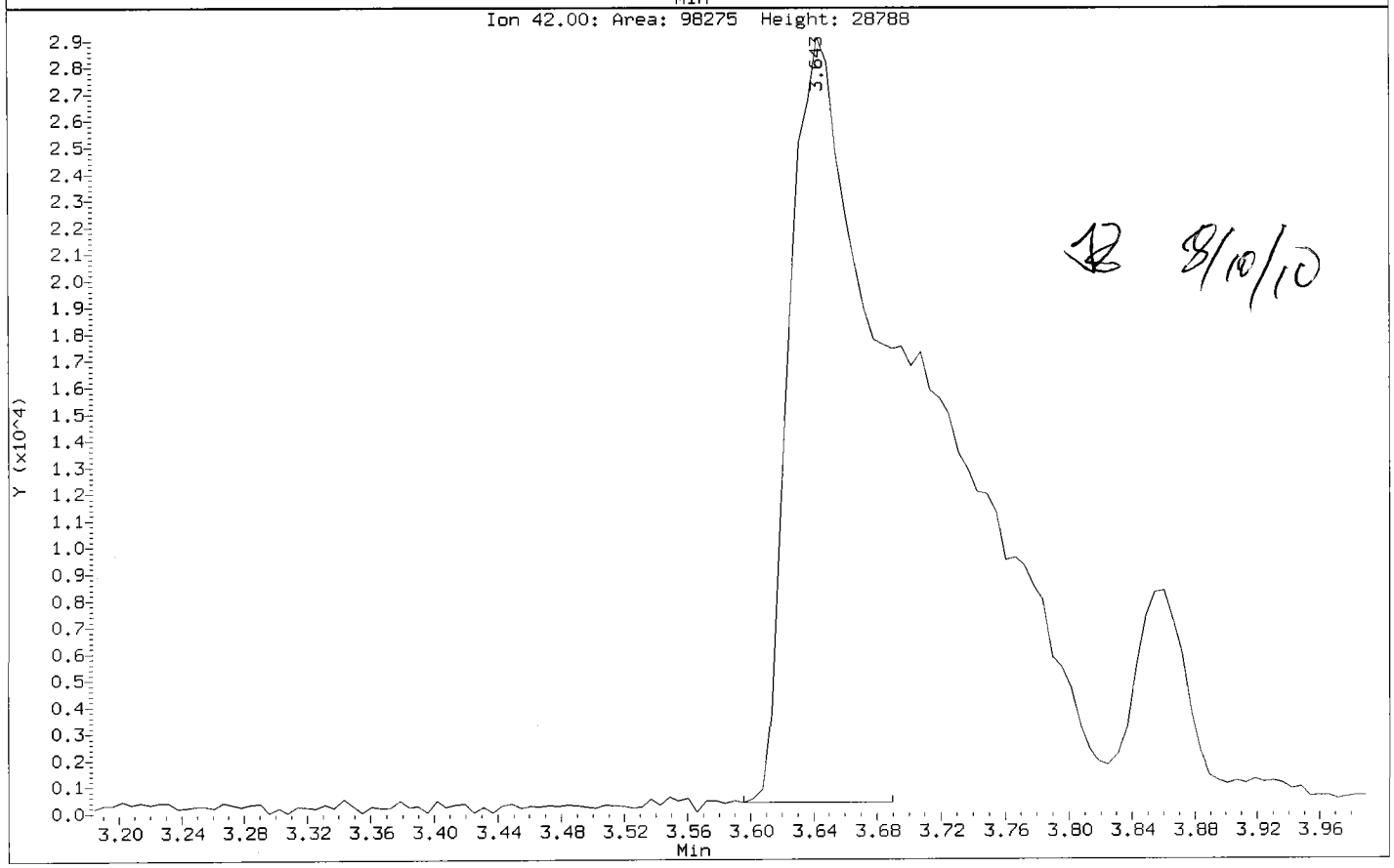
RF71:60325



Data File: /chem3/nt4.i/20100809.b/08091021.d
Injection Date: 09-AUG-2010 22:42
Instrument: nt4.i
Client Sample ID: RF71LCSDS1

Compound: N-Nitrosodimethylamine
CAS Number:

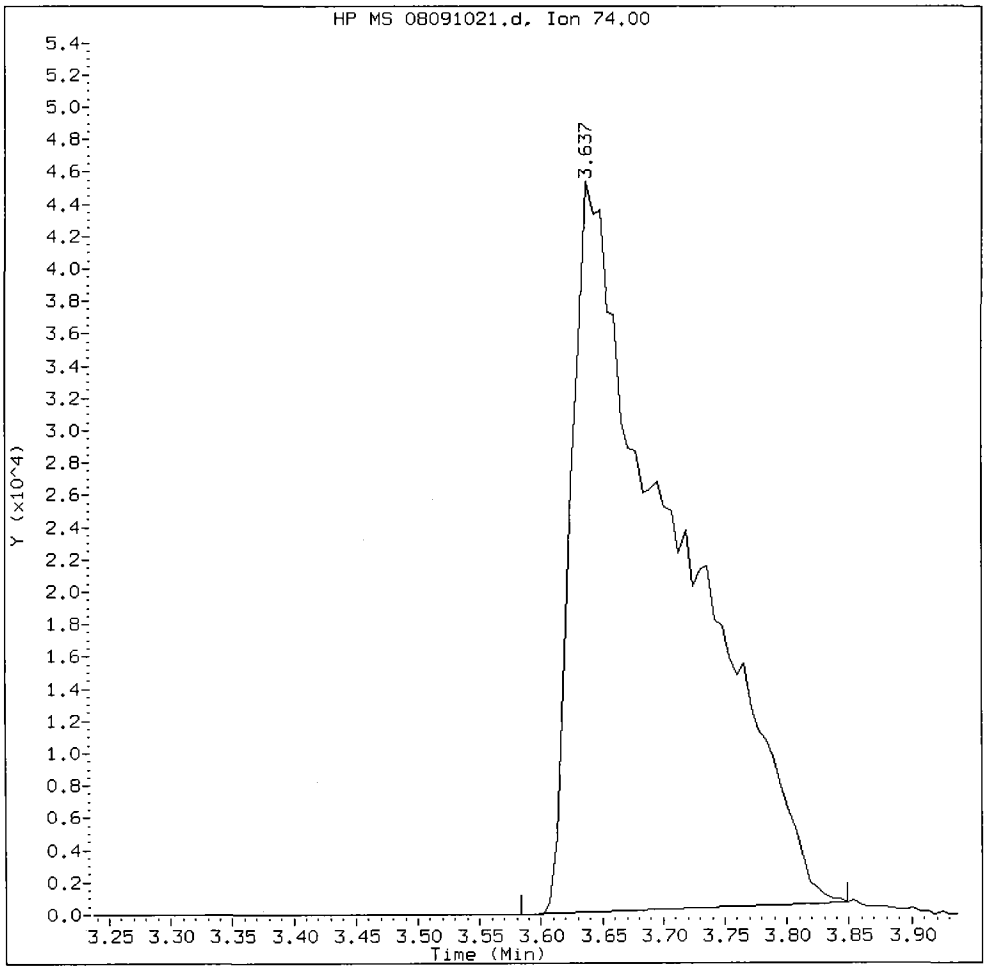




12 8/10/10

RF71LCSDS1, /chem3/nt4.i/20100809.b/08091021.d

N-Nitrosodimethylamine Amount: 15.30 Area: 267415



MANUAL INTEGRATION for N-Nitrosodimethylamine

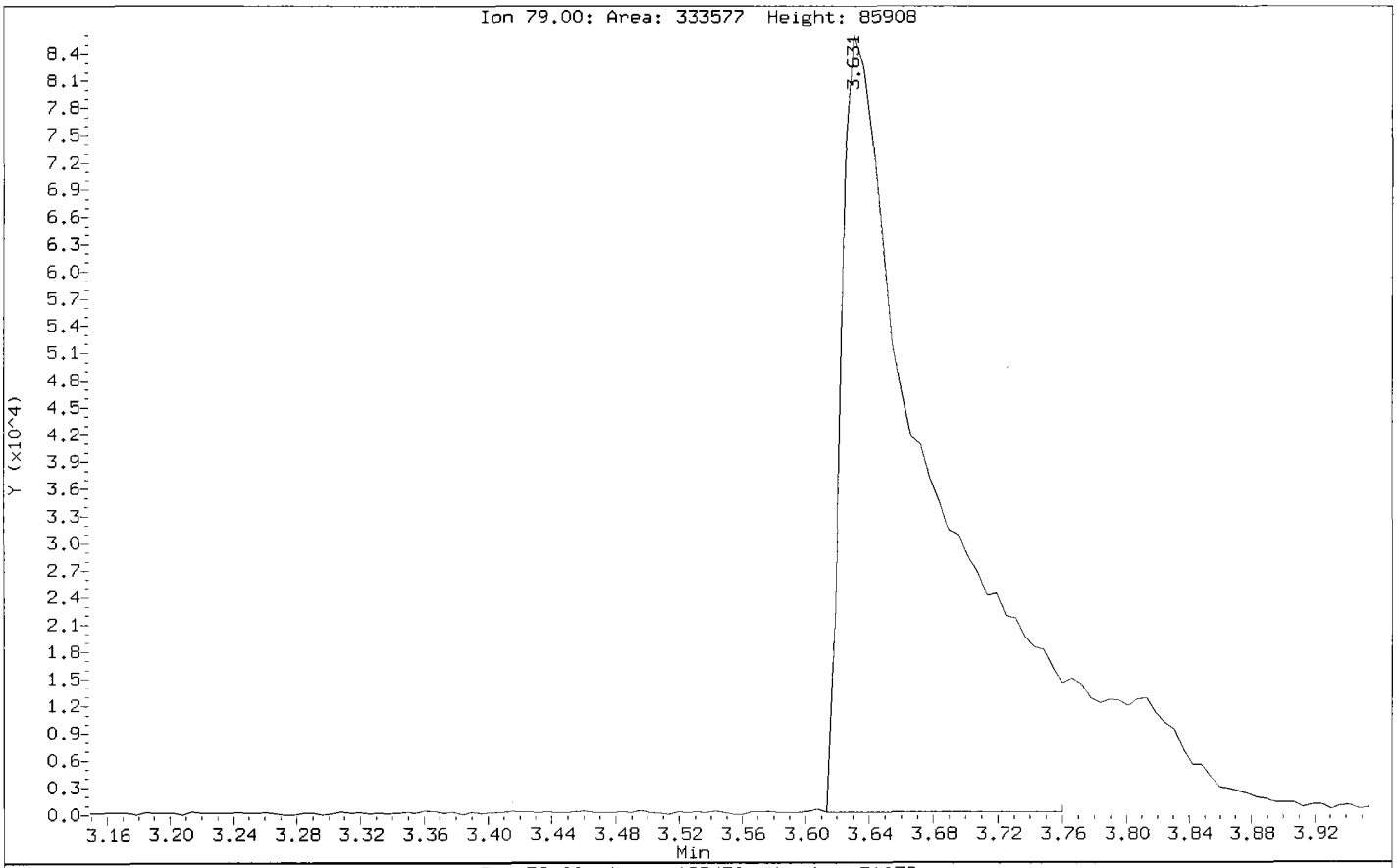
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

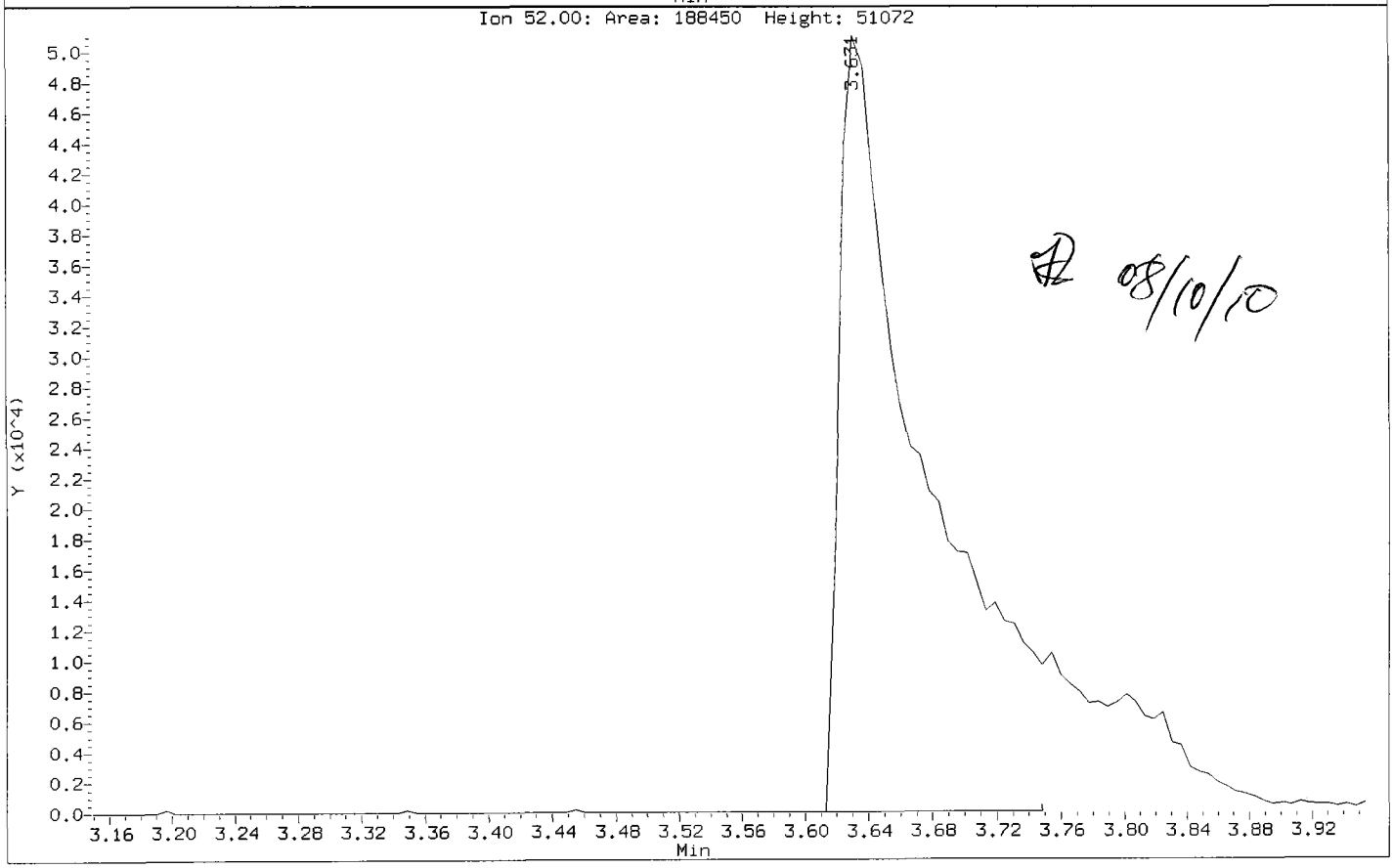
5. Other _____

Analyst: _____ Date: 08/10/10

Data File: /chem3/nt4.i/20100809.b/08091021.d
Injection Date: 09-AUG-2010 22:42
Instrument: nt4.i
Client Sample ID: RF71LCSDS1

Compound: Pyridine
CAS Number:

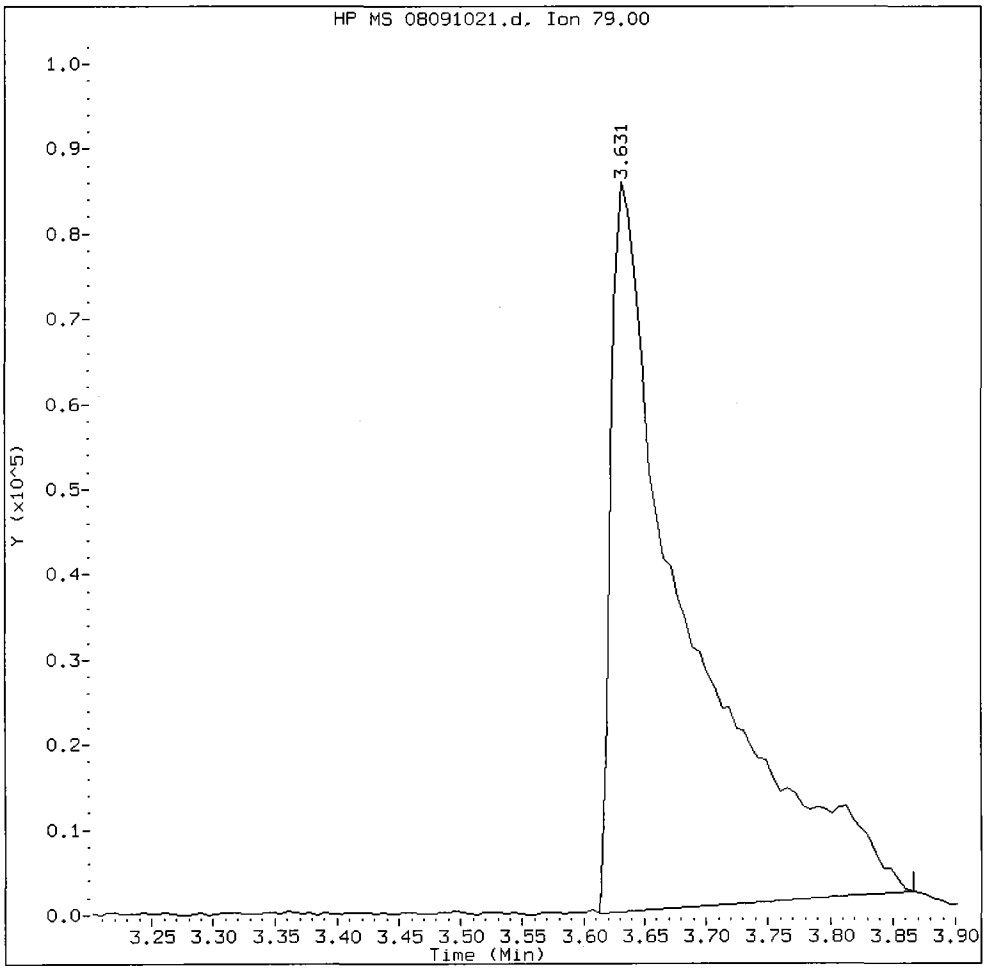




08/10/10

RF71LCSDS1, /chem3/nt4.i/20100809.b/08091021.d

Pyridine Amount: 12.42 Area: 374279



MANUAL INTEGRATION for Pyridine

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 08/10/10

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 8/10/10 Analysis: 8270 Analyst: JZ

GC Program: DB-1 Column No: 172294 Column Type: ZB-5MSi

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1247

Calibration File: 08/10/10 Curve Date: 7/19/10

IS/SS	Ical/Ccal	LCS/ICV
1752-1	1767-3 , 1733-1	
	1735-1 , 1736-1	
	1601A , 1743-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100810.b

	Time	Filename	LabID	ClientId	DF											
1	1202	08101001.d	CC0810	CC0810	1	8.14	502815	10.17	1763402	13.03	1106677	15.40	1814940	19.72	1680508	21.88	1704746	20.84	2452449
2	1238	08101002.d	RF71MBS1	RF71MBS1	1	8.14	325905	10.17	1178349	13.02	711031	15.40	1168984	19.71	1005827	20.84	1516361	21.87	990527
3	1312	08101003.d	RF71A 3X	BW-07-SC-COM	3	8.14	391948	10.17	1357450	13.02	868466	15.40	1430172	19.72	1366606	20.85	2029852	21.89	1322965
4	1345	08101004.d	RF64L	HP-OWS-INLET	3	10.17	1374874	13.02	858769	15.40	1452283	19.74	1233603	21.93	627535				
5	1418	08101005.d	RF64M	HP-OWS-OUTLE	3	10.17	1428319	13.03	887060	15.41	1511618	19.74	1102783	21.92	414455				
6	1452	08101006.d	RF64H	PA-CB-DUP	5	10.17	1159586	13.02	738237	15.40	1240556	19.73	1195643	21.91	703472				
7	1525	08101007.d	RF64K	HP-CB-03	3	10.17	1346985	13.03	847372	15.40	1497197	19.74	1154613	21.92	551268				

JZ 08/10/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100810.b

ARI Job No.: CC08 Method: SW846100719.m Instrument: nt4.i Date: 10-AUG-2010

AE 08/10/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1202	08101001.d	CC0810	CC0810	1	NO MANUAL INTEGRATION
1238	08101002.d	RF71MBS1	RF71MBS1	1	NO MANUAL INTEGRATION
1312	08101003.d	RF71A	BW-07-SC-C	3	Benzo(b)fluoranthene, Benzo(k)fluoranthene,

3X

RF71 09321

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt4.i/20100810.b

Instrument: nt4.i Date: 10-AUG-2010 Method: SW846100719.m

INITIAL CAL: 19-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

CONTINUING CAL: 10-AUG-2010

Compound	%D
4-Nitrophenol	-21.3

08/10/10

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08101001.d
Analysis Type:
Lab Sample ID: CC0810
Method: /chem3/nt4.i/20100810.b/SW846100719.m

Injection Date: 10-AUG-2010 12:02
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

08/10/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.08371	1.02913	1.02913	0.010	-5.03692	20.00000	Averaged
$ 2 Phenol-d5	1.06604	1.02582	1.02582	0.010	-3.77317	20.00000	Averaged
3 Phenol	1.37947	1.20626	1.20626	0.100	-12.55668	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.14386	1.08076	1.08076	0.010	-5.51651	20.00000	Averaged
4 Bis(2-Chloroethyl)ether	1.02875	0.96147	0.96147	0.700	-6.54040	20.00000	Averaged
6 2-Chlorophenol	1.31278	1.19913	1.19913	0.800	-8.65749	20.00000	Averaged
7 1,3-Dichlorobenzene	1.49159	1.39187	1.39187	0.010	-6.68517	20.00000	Averaged
9 1,4-Dichlorobenzene	1.50653	1.40173	1.40173	0.010	-6.95643	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.85327	0.77408	0.77408	0.010	-9.28072	20.00000	Averaged
12 1,2-Dichlorobenzene	1.40311	1.31564	1.31564	0.010	-6.23387	20.00000	Averaged
11 Benzyl alcohol	0.78176	0.73687	0.73687	0.010	-5.74232	20.00000	Averaged
14 2,2'-oxybis(1-Chloropropane	0.96702	0.92235	0.92235	0.010	-4.61928	20.00000	Averaged
13 2-Methylphenol	1.05383	1.00396	1.00396	0.700	-4.73212	20.00000	Averaged
17 Hexachloroethane	0.55799	0.51205	0.51205	0.300	-8.23436	20.00000	Averaged
16 N-Nitroso-di-n-propylamine	0.72131	0.65416	0.65416	0.500	-9.30951	20.00000	Averaged
15 4-Methylphenol	1.09383	1.04373	1.04373	0.600	-4.58035	20.00000	Averaged
$ 18 Nitrobenzene-d5	0.30955	0.30378	0.30378	0.010	-1.86282	20.00000	Averaged
19 Nitrobenzene	0.30648	0.28696	0.28696	0.200	-6.36850	20.00000	Averaged
20 Isophorone	0.50898	0.48081	0.48081	0.300	-5.53313	20.00000	Averaged
21 2-Nitrophenol	0.19148	0.19748	0.19748	0.100	3.13489	20.00000	Averaged
22 2,4-Dimethylphenol	0.34090	0.31873	0.31873	0.200	-6.50508	20.00000	Averaged
23 Bis(2-Chloroethoxy)methane	0.35475	0.35347	0.35347	0.050	-0.35969	20.00000	Averaged
24 Benzoic acid	41.48066	50.00000	0.22744	0.010	-17.03867	20.00000	Linear
25 2,4-Dichlorophenol	0.29949	0.29772	0.29772	0.100	-0.59322	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.33353	0.31846	0.31846	0.010	-4.51912	20.00000	Averaged
28 Naphthalene	0.94898	0.89770	0.89770	0.100	-5.40416	20.00000	Averaged
29 4-Chloroaniline	0.37840	0.37011	0.37011	0.010	-2.19044	20.00000	Averaged
30 Hexachlorobutadiene	0.18923	0.17630	0.17630	0.010	-6.83046	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.27464	0.27976	0.27976	0.200	1.86408	20.00000	Averaged
32 2-Methylnaphthalene	0.64492	0.60887	0.60887	0.300	-5.59046	20.00000	Averaged
33 Hexachlorocyclopentadiene	0.29263	0.26267	0.26267	0.001	-10.23940	20.00000	Averaged
34 2,4,6-Trichlorophenol	0.36003	0.35297	0.35297	0.200	-1.96106	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.36654	0.36344	0.36344	0.200	-0.84530	20.00000	Averaged
$ 36 2-Fluorobiphenyl	1.22512	1.09364	1.09364	0.010	-10.73203	20.00000	Averaged
37 2-Chloronaphthalene	1.08775	0.98260	0.98260	0.700	-9.66750	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08101001.d
Analysis Type:
Lab Sample ID: CC0810
Method: /chem3/nt4.i/20100810.b/SW846100719.m

Injection Date: 10-AUG-2010 12:02
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.21001	0.21327	0.21327	0.010	1.55302	20.00000	Averaged	
39 Dimethylphthalate	1.27768	1.10276	1.10276	0.010	-13.69088	20.00000	Averaged	
40 Acenaphthylene	1.64077	1.53838	1.53838	0.900	-6.24041	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.28751	0.27553	0.27553	0.100	-4.16485	20.00000	Averaged	
43 3-Nitroaniline	0.25351	0.23642	0.23642	0.010	-6.74122	20.00000	Averaged	
44 Acenaphthene	1.06825	0.95460	0.95460	0.100	-10.63918	20.00000	Averaged	
45 2,4-Dinitrophenol	50.13844	50.00000	0.16968	0.030	0.27689	20.00000	Quadratic	
46 Dibenzofuran	1.42396	1.30119	1.30119	0.800	-8.62154	20.00000	Averaged	
47 4-Nitrophenol	0.17920	0.14112	0.14112	0.010	-21.25351	20.00000	Averaged	<-
48 2,4-Dinitrotoluene	0.37910	0.36819	0.36819	0.200	-2.87815	20.00000	Averaged	
50 Diethylphthalate	1.32169	1.09182	1.09182	0.010	-17.39171	20.00000	Averaged	
49 Fluorene	1.23204	1.14916	1.14916	0.100	-6.72715	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.59756	0.55011	0.55011	0.100	-7.94086	20.00000	Averaged	
52 4-Nitroaniline	0.27464	0.27574	0.27574	0.010	0.40137	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.13800	0.14276	0.14276	0.001	3.45430	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.56415	0.50976	0.50976	0.010	-9.64078	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.14302	0.14437	0.14437	0.010	0.94516	20.00000	Averaged	
56 4-Bromophenyl-phenylether	0.20445	0.19396	0.19396	0.100	-5.12734	20.00000	Averaged	
57 Hexachlorobenzene	0.20941	0.19677	0.19677	0.100	-6.03408	20.00000	Averaged	
58 Pentachlorophenol	0.14268	0.12275	0.12275	0.010	-13.97154	20.00000	Averaged	
60 Phenanthrene	1.03607	0.93701	0.93701	0.700	-9.56172	20.00000	Averaged	
61 Anthracene	1.05988	0.98501	0.98501	0.700	-7.06383	20.00000	Averaged	
62 Carbazole	0.96311	0.90680	0.90680	0.010	-5.84707	20.00000	Averaged	
63 Di-n-butylphthalate	1.22802	1.17317	1.17317	0.010	-4.46669	20.00000	Averaged	
64 Fluoranthene	1.07347	1.05581	1.05581	0.600	-1.64549	20.00000	Averaged	
65 Pyrene	1.26819	1.18173	1.18173	0.600	-6.81763	20.00000	Averaged	
$ 66 Terphenyl-d14	0.77444	0.71990	0.71990	0.010	-7.04167	20.00000	Averaged	
67 Butylbenzylphthalate	0.64359	0.61656	0.61656	0.010	-4.20002	20.00000	Averaged	
68 Benzo(a)anthracene	1.17238	1.06983	1.06983	0.800	-8.74666	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37917	0.38614	0.38614	0.010	1.83622	20.00000	Averaged	
71 Chrysene	1.14746	1.04220	1.04220	0.700	-9.17346	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.56782	0.57035	0.57035	0.010	0.44490	20.00000	Averaged	
73 Di-n-octylphthalate	0.99436	0.89423	0.89423	0.010	-10.06957	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.24491	1.14923	1.14923	0.700	-7.68546	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.26106	1.12154	1.12154	0.700	-11.06347	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 10-AUG-2010 12:02
Lab File ID: 08101001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0810 Quant Type: ISTD
Method: /chem3/nt4.i/20100810.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.18021	1.06987	1.06987	0.010	-9.34917	20.00000	Averaged
76 Benzo(a)pyrene	1.10432	1.02937	1.02937	0.700	-6.78724	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.18581	1.22749	1.22749	0.500	3.51496	20.00000	Averaged
79 Dibenzo(a,h)anthracene	0.95329	1.01283	1.01283	0.400	6.24636	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.01362	1.07788	1.07788	0.500	6.33934	20.00000	Averaged
90 N-Nitrosodimethylamine	0.58263	0.54124	0.54124	0.010	-7.10387	20.00000	Averaged
103 Pyridine	1.00478	0.97995	0.97995	0.010	-2.47108	20.00000	Averaged
91 Aniline	1.43987	1.35497	1.35497	0.010	-5.89622	20.00000	Averaged
105 1-methylnaphthalene	0.63176	0.59916	0.59916	0.010	-5.16036	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100810.b/08101001.d
Lab Smp Id: CC0810 Client Smp ID: CC0810
Inj Date : 10-AUG-2010 12:02
Operator : JZ Inst ID: nt4.i
Smp Info : CC0810
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100810.b/SW846100719.m
Meth Date : 10-Aug-2010 15:41 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

08/10/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.201	6.201	(0.762)	646827	25.0000	23.74
$	2 Phenol-d5	99	7.716	7.716	(0.948)	644748	25.0000	24.06
	3 Phenol	94	7.734	7.734	(0.950)	758156	25.0000	21.86
$	5 2-Chlorophenol-d4	132	7.846	7.846	(0.964)	679277	25.0000	23.62
	4 Bis(2-Chloroethyl)ether	93	7.804	7.804	(0.959)	604301	25.0000	23.36
	6 2-Chlorophenol	128	7.869	7.869	(0.967)	753677	25.0000	22.84
	7 1,3-Dichlorobenzene	146	8.075	8.075	(0.992)	874819	25.0000	23.33
*	8 1,4-Dichlorobenzene-d4	152	8.139	8.139	(1.000)	502815	20.0000	
	9 1,4-Dichlorobenzene	146	8.163	8.163	(1.003)	881017	25.0000	23.26
$	10 1,2-Dichlorobenzene-d4	152	8.433	8.433	(1.036)	486524	25.0000	22.68
	12 1,2-Dichlorobenzene	146	8.456	8.456	(1.039)	826905	25.0000	23.44
	11 Benzyl alcohol	108	8.421	8.421	(1.035)	463139	25.0000	23.56
	14 2,2'-oxybis(1-Chloropropane)	45	8.668	8.668	(1.065)	579716	25.0000	23.85
	13 2-Methylphenol	108	8.656	8.656	(1.063)	631009	25.0000	23.82
	17 Hexachloroethane	117	8.938	8.938	(1.098)	321831	25.0000	22.94
	16 N-Nitroso-di-n-propylamine	70	8.891	8.891	(1.092)	411151	25.0000	22.67
	15 4-Methylphenol	108	8.885	8.885	(1.092)	656006	25.0000	23.85
$	18 Nitrobenzene-d5	82	9.062	9.062	(0.891)	669607	25.0000	24.53
	19 Nitrobenzene	77	9.091	9.091	(0.894)	632532	25.0000	23.41
	20 Isophorone	82	9.467	9.467	(0.931)	1059833	25.0000	23.62
	21 2-Nitrophenol	139	9.602	9.602	(0.944)	435299	25.0000	25.78
	22 2,4-Dimethylphenol	107	9.714	9.714	(0.955)	702555	25.0000	23.37
	23 Bis(2-Chloroethoxy)methane	93	9.855	9.855	(0.969)	779145	25.0000	24.91
	24 Benzoic acid	105	9.972	9.972	(0.980)	1002687	50.0000	41.48
	25 2,4-Dichlorophenol	162	9.990	9.990	(0.982)	656245	25.0000	24.85
	26 1,2,4-Trichlorobenzene	180	10.113	10.113	(0.994)	701968	25.0000	23.87
*	27 Naphthalene-d8	136	10.172	10.172	(1.000)	1763402	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.201	10.201	(1.003)	1978750	25.0000	23.65
	29 4-Chloroaniline	127	10.342	10.342	(1.017)	815812	25.0000	24.45
	30 Hexachlorobutadiene	225	10.512	10.512	(1.033)	388617	25.0000	23.29
	31 4-Chloro-3-methylphenol	107	11.159	11.159	(1.097)	616666	25.0000	25.47
	32 2-Methylnaphthalene	142	11.317	11.317	(1.113)	1342093	25.0000	23.60
	33 Hexachlorocyclopentadiene	237	11.693	11.693	(0.898)	363359	25.0000	22.44
	34 2,4,6-Trichlorophenol	196	11.834	11.834	(0.908)	488273	25.0000	24.51
	35 2,4,5-Trichlorophenol	196	11.899	11.899	(0.913)	502764	25.0000	24.79
$	36 2-Fluorobiphenyl	172	11.958	11.958	(0.918)	1512878	25.0000	22.32
	37 2-Chloronaphthalene	162	12.099	12.099	(0.929)	1359270	25.0000	22.58
	38 2-Nitroaniline	65	12.334	12.334	(0.947)	295028	25.0000	25.39
	39 Dimethylphthalate	163	12.698	12.698	(0.975)	1525497	25.0000	21.58
	40 Acenaphthylene	152	12.774	12.774	(0.981)	2128106	25.0000	23.44
	41 2,6-Dinitrotoluene	165	12.792	12.792	(0.982)	381156	25.0000	23.96
*	42 Acenaphthene-d10	164	13.027	13.027	(1.000)	1106677	20.0000	
	43 3-Nitroaniline	138	13.009	13.009	(0.999)	327052	25.0000	23.31
	44 Acenaphthene	153	13.080	13.080	(1.004)	1320542	25.0000	22.34
	45 2,4-Dinitrophenol	184	13.179	13.179	(1.012)	469443	50.0000	50.14
	46 Dibenzofuran	168	13.338	13.338	(1.024)	1799995	25.0000	22.84
	47 4-Nitrophenol	109	13.338	13.338	(1.024)	195211	25.0000	19.69
	48 2,4-Dinitrotoluene	165	13.426	13.426	(1.031)	509329	25.0000	24.28
	50 Diethylphthalate	149	13.849	13.849	(1.063)	1510371	25.0000	20.65
	49 Fluorene	166	13.896	13.896	(1.067)	1589680	25.0000	23.32
	51 4-Chlorophenyl-phenylether	204	13.914	13.914	(1.068)	760988	25.0000	23.01
	52 4-Nitroaniline	138	14.008	14.008	(1.075)	381449	25.0000	25.10
	53 4,6-Dinitro-2-methylphenol	198	14.084	14.084	(0.915)	647774	50.0000	51.73
	54 N-Nitrosodiphenylamine	169	14.125	14.125	(0.917)	1156478	25.0000	22.59
$	55 2,4,6-Tribromophenol	330	14.319	14.319	(1.099)	199719	25.0000	25.24
	56 4-Bromophenyl-phenylether	248	14.695	14.695	(0.954)	440042	25.0000	23.72
	57 Hexachlorobenzene	284	14.924	14.924	(0.969)	446417	25.0000	23.49
	58 Pentachlorophenol	266	15.224	15.224	(0.989)	278478	25.0000	21.51
*	59 Phenanthrene-d10	188	15.400	15.400	(1.000)	1814940	20.0000	
	60 Phenanthrene	178	15.441	15.441	(1.003)	2125761	25.0000	22.61
	61 Anthracene	178	15.512	15.512	(1.007)	2234674	25.0000	23.23
	62 Carbazole	167	15.794	15.794	(1.026)	2057227	25.0000	23.54
	63 Di-n-butylphthalate	149	16.499	16.499	(1.071)	2661534	25.0000	23.88
	64 Fluoranthene	202	17.374	17.374	(1.128)	2395283	25.0000	24.59
	65 Pyrene	202	17.732	17.732	(0.899)	2482386	25.0000	23.30
$	66 Terphenyl-d14	244	18.038	18.038	(0.915)	1512251	25.0000	23.24
	67 Butylbenzylphthalate	149	18.913	18.913	(0.959)	1295173	25.0000	23.95
	68 Benzo(a)anthracene	228	19.694	19.694	(0.998)	2247329	25.0000	22.81
*	69 Chrysene-d12	240	19.724	19.724	(1.000)	1680508	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.694	19.694	(0.998)	811131	25.0000	25.46
	71 Chrysene	228	19.759	19.759	(1.002)	2189279	25.0000	22.71
	72 bis(2-Ethylhexyl)phthalate	149	19.906	19.906	(0.955)	1748432	25.0000	25.11
*	134 Di-n-octylphthalate-d4	153	20.840	20.840	(1.000)	2452449	20.0000	
	73 Di-n-octylphthalate	149	20.851	20.851	(1.001)	2741315	25.0000	22.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.351	21.351	(0.976)	2448936	25.0000	23.08
75	Benzo(k)fluoranthene	252	21.386	21.386	(0.977)	2389932	25.0000	22.23
187	Total Benzofluoranthenes	252	21.386	21.386	(0.977)	4559645	50.0000	45.33
76	Benzo(a)pyrene	252	21.803	21.803	(0.996)	2193520	25.0000	23.30
* 77	Perylene-d12	264	21.879	21.879	(1.000)	1704746	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.424	23.424	(1.071)	2615698	25.0000	25.88
79	Dibenzo(a,h)anthracene	278	23.448	23.448	(1.072)	2158275	25.0000	26.56
80	Benzo(g,h,i)perylene	276	23.859	23.859	(1.090)	2296880	25.0000	26.58
90	N-Nitrosodimethylamine	74	3.575	3.575	(0.439)	340179	25.0000	23.22
103	Pyridine	79	3.545	3.545	(0.436)	615917	25.0000	24.38
91	Aniline	93	7.699	7.699	(0.946)	851624	25.0000	23.53
105	1-methylnaphthalene	142	11.494	11.494	(1.130)	1320699	25.0000	23.71

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08101001.d
Lab Smp Id: CC0810
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100810.b/SW846100719.m
Misc Info: 10-

Calibration Date: 10-AUG-2010
Calibration Time: 12:02
Client Smp ID: CC0810
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	502815	41.05
27 Naphthalene-d8	1293412	646706	2586824	1763402	36.34
42 Acenaphthene-d10	785897	392948	1571794	1106677	40.82
59 Phenanthrene-d10	1313990	656995	2627980	1814940	38.12
69 Chrysene-d12	1155293	577646	2310586	1680508	45.46
134 Di-n-octylphthala	1825297	912648	3650594	2452449	34.36
77 Perylene-d12	1146289	573144	2292578	1704746	48.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.14	0.00
27 Naphthalene-d8	10.17	9.67	10.67	10.17	0.00
42 Acenaphthene-d10	13.03	12.53	13.53	13.03	0.00
59 Phenanthrene-d10	15.40	14.90	15.90	15.40	0.00
69 Chrysene-d12	19.72	19.22	20.22	19.72	0.00
134 Di-n-octylphthala	20.84	20.34	21.34	20.84	0.00
77 Perylene-d12	21.88	21.38	22.38	21.88	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

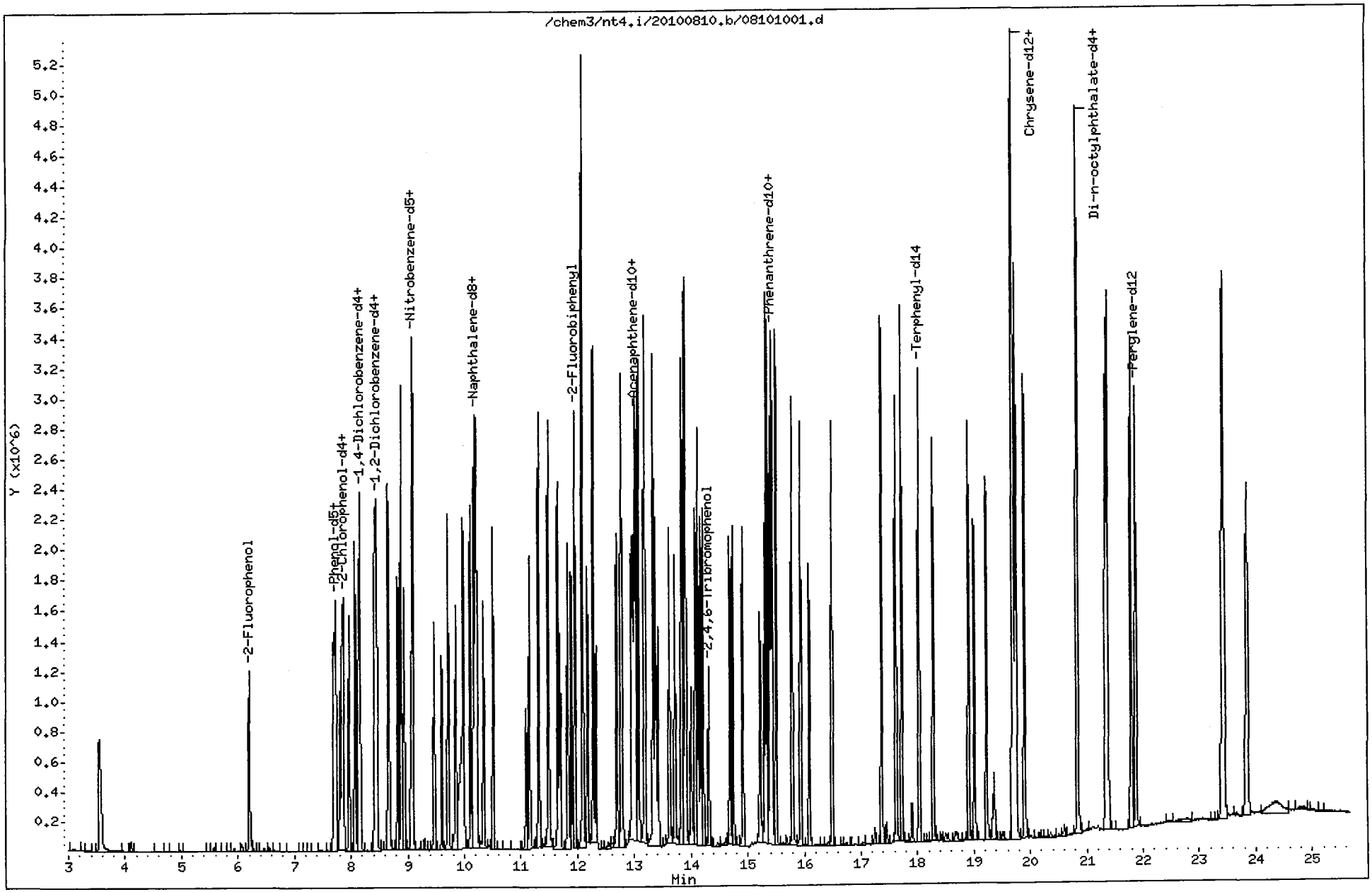
Data File: /chem3/nt4.i/20100810.b/08101001.d
Date : 10-AUG-2010 12:02
Client ID: CC0810
Sample Info: CC0810

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi

RF71:08310



Data File: /chem3/nt4.i/20100810.b/tune.b/08101001.d

Date : 10-AUG-2010 12:02

Client ID: DFTPP0810

Instrument: nt4.i

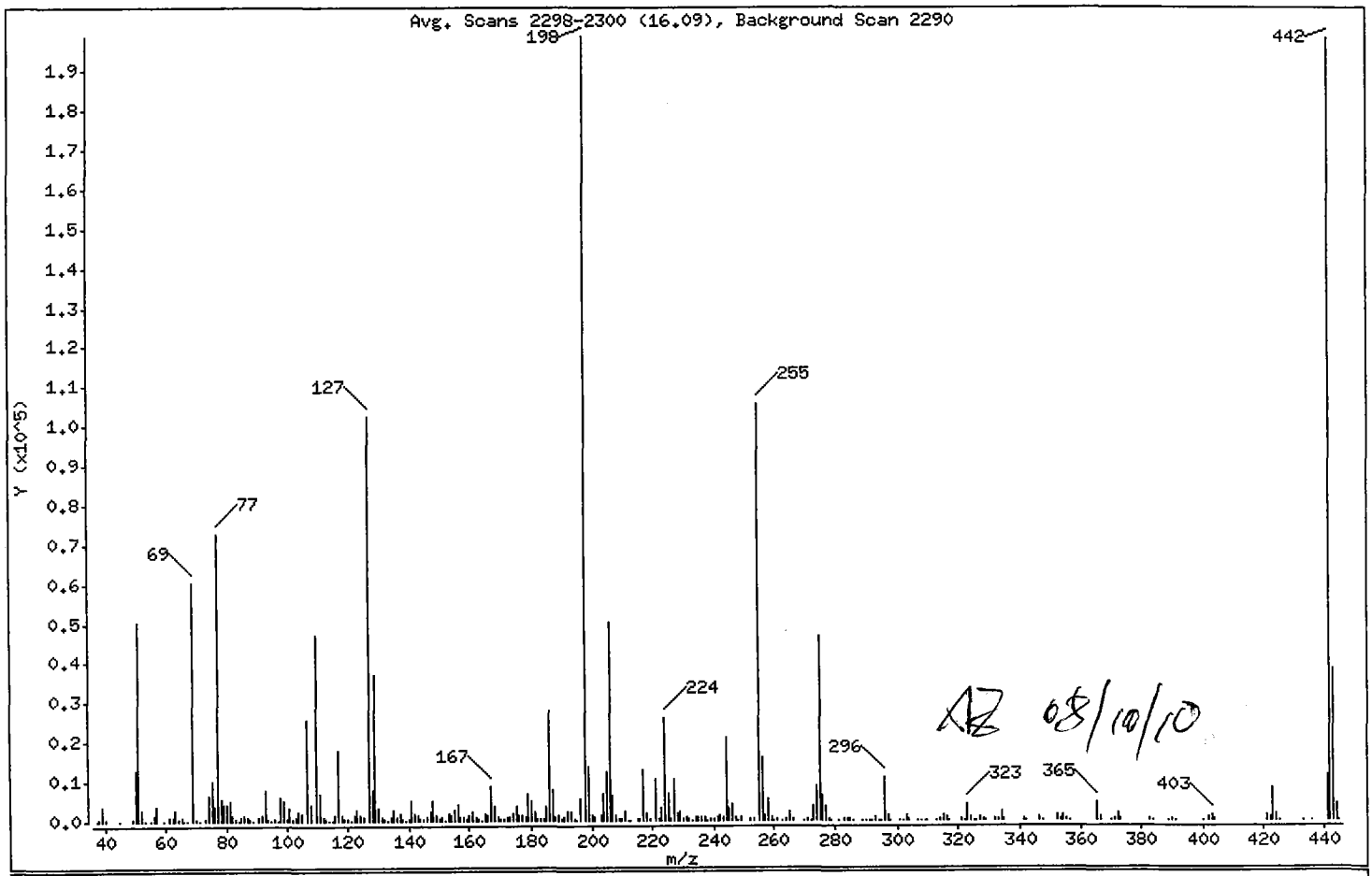
Sample Info: DFTPP0810

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	25.18
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	30.42
70	Less than 2.00% of mass 69	0.14 (0.47)
127	10.00 - 80.00% of mass 198	51.55
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 60.00% of mass 198	23.50
365	Greater than 1.00% of mass 198	2.31
441	0.01 - 24.00% of mass 442	5.86 (5.87)
442	50.00 - 200.00% of mass 198	99.84
443	15.00 - 24.00% of mass 442	19.29 (19.32)

Data File: /chem3/nt4.i/20100810.b/tune.b/08101001.d

Date : 10-AUG-2010 12:02

Client ID: DFTPP0810

Instrument: nt4.i

Sample Info: DFTPP0810

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08101001.d
Spectrum: Avg. Scans 2298-2300 (16.09), Background Scan 2290
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	202	127.00	102512	203.00	1342	290.00	225
38.00	639	128.00	7983	204.00	6647	291.00	61
39.00	3846	129.00	36880	205.00	12313	292.00	152
40.00	270	130.00	3422	206.00	50192	293.00	921
45.00	125	131.00	763	207.00	6546	294.00	193
49.00	532	132.00	381	208.00	1521	295.00	123
50.00	12853	133.00	104	209.00	563	296.00	10945
51.00	50064	134.00	1002	210.00	356	297.00	1478
52.00	2581	135.00	2923	211.00	2198	298.00	167
53.00	101	136.00	1113	212.00	133	301.00	64
55.00	97	137.00	1620	213.00	128	302.00	142
56.00	1511	138.00	453	215.00	530	303.00	1376
57.00	3539	139.00	20	216.00	647	304.00	399
59.00	55	140.00	368	217.00	12722	307.00	55
61.00	730	141.00	4822	218.00	1717	308.00	131
62.00	867	142.00	1784	219.00	247	309.00	62
63.00	2721	143.00	1266	221.00	10566	310.00	89
64.00	400	144.00	337	222.00	495	313.00	114
65.00	1036	145.00	296	223.00	3027	314.00	615
66.00	58	146.00	823	224.00	26256	315.00	1403
67.00	192	147.00	2161	225.00	7078	316.00	760
69.00	60488	148.00	4951	226.00	250	317.00	139
70.00	282	149.00	1255	227.00	10583	321.00	437
71.00	41	150.00	346	228.00	1662	322.00	61
73.00	682	151.00	813	229.00	2489	323.00	4007
74.00	6212	152.00	131	230.00	368	324.00	806
75.00	9904	153.00	1674	231.00	1131	325.00	122
76.00	3521	154.00	1393	232.00	292	326.00	56
77.00	72648	155.00	2746	233.00	225	327.00	739
78.00	5348	156.00	4178	234.00	730	328.00	248
79.00	4241	157.00	1001	235.00	797	329.00	53
80.00	3989	158.00	907	236.00	708	332.00	260
81.00	5023	159.00	676	237.00	816	333.00	383
82.00	1301	160.00	1200	238.00	107	334.00	2509
83.00	671	161.00	2399	239.00	448	335.00	675

Data File: /chem3/nt4.i/20100810.b/tune.b/08101001.d

Date : 10-AUG-2010 12:02

Client ID: DFTPP0810

Instrument: nt4.i

Sample Info: DFTPP0810

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08101001.d

Spectrum: Avg. Scans 2298-2300 (16.09), Background Scan 2290

Location of Maximum: 198.00

Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	29	162.00	808	240.00	318	341.00	502
85.00	867	163.00	305	241.00	700	342.00	177
86.00	1322	164.00	201	242.00	1475	346.00	784
87.00	850	165.00	1623	243.00	1138	347.00	113
88.00	272	166.00	1492	244.00	20816	352.00	1237
89.00	219	167.00	8844	245.00	3075	353.00	683
91.00	777	168.00	3752	246.00	3894	354.00	1267
92.00	1405	169.00	899	247.00	924	355.00	257
93.00	7792	170.00	359	248.00	227	356.00	56
94.00	672	171.00	352	249.00	825	365.00	4597
95.00	178	172.00	845	252.00	252	366.00	789
96.00	591	173.00	1076	253.00	444	370.00	62
97.00	13	174.00	2039	255.00	105656	371.00	301
98.00	5799	175.00	3875	256.00	15810	372.00	1948
99.00	5186	176.00	1398	257.00	1189	373.00	614
100.00	588	177.00	1580	258.00	5570	383.00	598
101.00	3083	178.00	745	259.00	843	384.00	164
102.00	237	179.00	6987	260.00	188	389.00	58
103.00	1059	180.00	5049	261.00	263	390.00	271
104.00	2143	181.00	2198	263.00	53	391.00	142
105.00	1896	182.00	555	264.00	289	400.00	54
107.00	25496	183.00	288	265.00	2316	402.00	877
108.00	4202	184.00	479	266.00	465	403.00	1180
110.00	47248	185.00	3530	270.00	55	404.00	393
111.00	7081	186.00	27872	271.00	374	421.00	1247
112.00	943	187.00	7819	272.00	75	422.00	716
113.00	257	188.00	822	273.00	3497	423.00	8062
114.00	148	189.00	1573	274.00	8580	424.00	1727
115.00	110	190.00	317	275.00	46728	425.00	154
116.00	1456	191.00	730	276.00	6285	433.00	55
117.00	17640	192.00	2216	277.00	3477	436.00	79
118.00	1236	193.00	2351	278.00	542	441.00	11650
119.00	352	194.00	476	279.00	83	442.00	198528
120.00	407	195.00	101	281.00	55	443.00	38360
121.00	108	196.00	5523	283.00	449	444.00	3897

Date : 10-AUG-2010 12:02

Client ID: DFTPP0810 Instrument: nt4.i

Sample Info: DFTPP0810

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 08101001.d
Spectrum: Avg. Scans 2298-2300 (16.09), Background Scan 2290
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	1506	198.00	198848	284.00	354	445.00	195
123.00	2809	199.00	13803	285.00	603		
124.00	1264	200.00	1162	286.00	129		
125.00	1016	201.00	955	289.00	163		

Data File: /chem3/nt4.i/20100810.b/tune.b/08101001.d

Date : 10-AUG-2010 12:02

Client ID: DFTPP0810

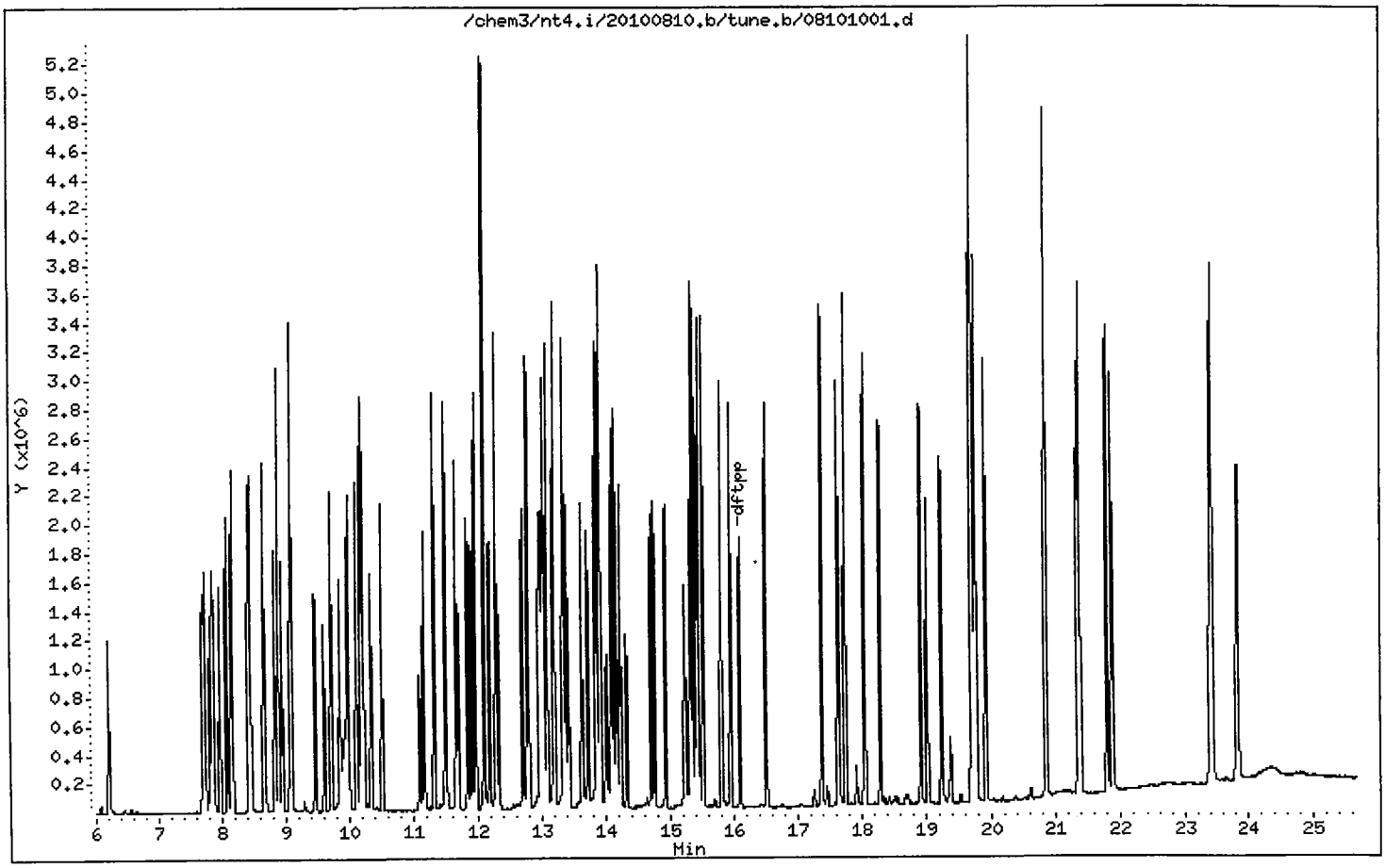
Instrument: nt4.i

Sample Info: DFTPP0810

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100810.b/ddt.b/08101001.d ARI ID: CC0810
Method: /chem3/nt4.i/20100810.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 10-AUG-2010 12:02 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	15.224	278478
Benzidine	13.179	469443
4,4'-DDE	----	----
4,4'-DDD	18.543	16331
4,4'-DDT	19.019	667910

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 16331) * 100}{(0 + 16331 + 667910)}$$

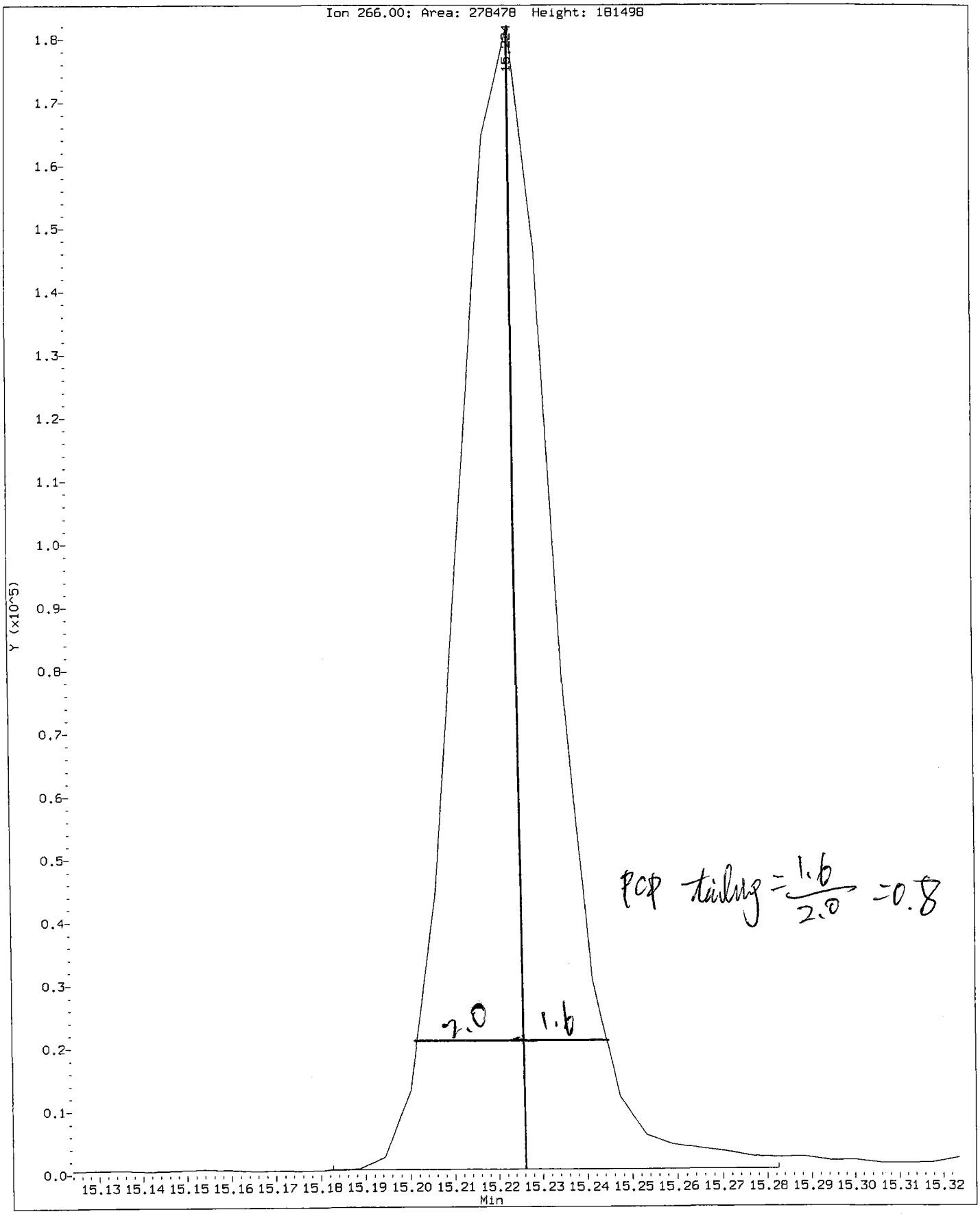
DDT Percent Breakdown = 2.4 %

0/0

AB 08/10/10

Data File: /chem3/nt4.i/20100810.b/ddt.b/08101001.d
Injection Date: 10-AUG-2010 12:02
Instrument: nt4.i
Client Sample ID: CC0810

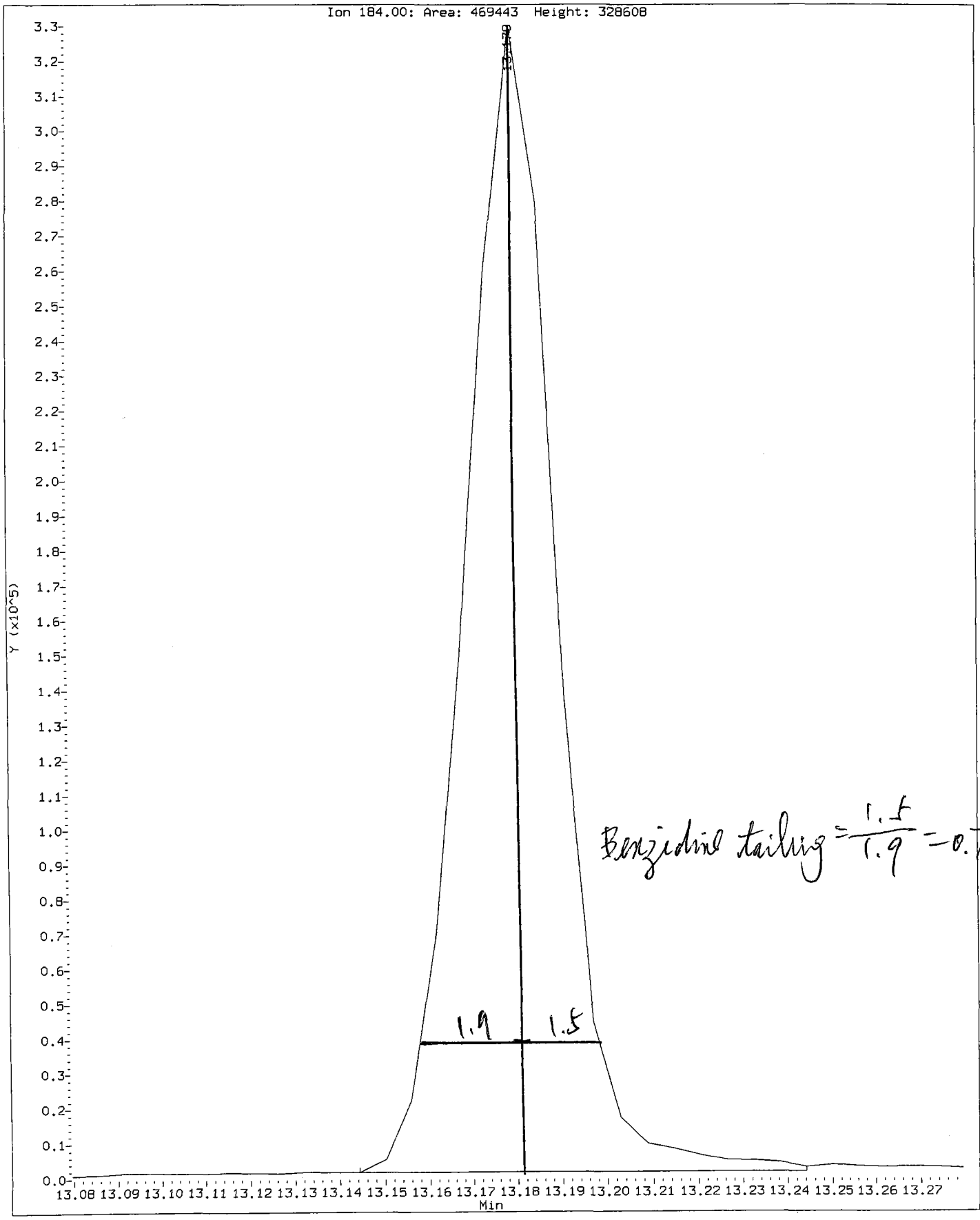
Compound: Pentachlorophenol
CAS Number: 87-86-5



RF71 : 00347

Data File: /chem3/nt4.i/20100810.b/ddt.b/08101001.d
Injection Date: 10-AUG-2010 12:02
Instrument: nt4.i
Client Sample ID: CC0810

Compound: Benzidine
CAS Number:



RF71:00348

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100810.b/08101003.d
Lab Smp Id: RF71A Client Smp ID: BW-07-SC-COMP-10072
Inj Date : 10-AUG-2010 13:12
Operator : JZ Inst ID: nt4.i
Smp Info : RF71A,3,
Misc Info : 10-17570
Comment : 1ul Injection
Method : /chem3/nt4.i/20100810.b/SW846100719.m
Meth Date : 10-Aug-2010 15:49 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 3
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: SONIC.sub
Target Version: 3.50

08/10/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	41.10000	Weight of sample extracted (g)
M	39.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	6.214	6.201	(0.764)	225617	10.6233	635.6
$	2 Phenol-d5	99	7.712	7.716	(0.948)	253662	12.1418	726.4
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	7.841	7.846	(0.964)	241849	10.7888	645.5
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.135	8.139	(1.000)	391948	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	8.435	8.433	(1.037)	96441	5.76736	345.1
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	8.875	8.885	(1.091)	11704	0.54599	32.67
$	18 Nitrobenzene-d5	82	9.057	9.062	(0.891)	138173	6.57664	393.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	10.168	10.172	(1.000)	1357450	20.0000	
	28 Naphthalene	128	10.197	10.201	(1.003)	39744	0.61705	36.92
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.954	11.958	(0.918)	366576	6.89071	412.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	12.770	12.774	(0.981)	36039	0.50583	30.26
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	13.023	13.027	(1.000)	868466	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	14.309	14.319	(1.099)	75868	12.2161	730.9
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.396	15.400	(1.000)	1430172	20.0000	
	60 Phenanthrene	178	15.431	15.441	(1.002)	64586	0.87175	52.16
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
63	Di-n-butylphthalate	149	Compound Not Detected.					
64	Fluoranthene	202	17.370	17.374	(1.128)	138674	1.80654	108.1
65	Pyrene	202	17.728	17.732	(0.899)	159782	1.84387	110.3
$ 66	Terphenyl-d14	244	18.039	18.038	(0.915)	383245	7.24233	433.3
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	19.690	19.694	(0.998)	73125	0.91282	54.61
* 69	Chrysene-d12	240	19.720	19.724	(1.000)	1366606	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	19.755	19.759	(1.002)	126911	1.61863	96.84
72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134	Di-n-octylphthalate-d4	153	20.847	20.840	(1.000)	2029852	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	21.358	21.351	(0.976)	141998	1.72436	103.2(M) 0.86
75	Benzo(k)fluoranthene	252	21.358	21.386	(0.976)	141998	1.70228	101.8(M) 0.86
76	Benzo(a)pyrene	252	21.805	21.803	(0.996)	79902	1.09381	65.44
* 77	Perylene-d12	264	21.893	21.879	(1.000)	1322965	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	142	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

08/10/10

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08101003.d
Lab Smp Id: RF71A
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100810.b/SW846100719.m
Misc Info: 10-17570

Calibration Date: 10-AUG-2010
Calibration Time: 12:02
Client Smp ID: BW-07-SC-COMP-10
Level: LOW
Sample Type: Sediment

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	391948	9.95
27 Naphthalene-d8	1293412	646706	2586824	1357450	4.95
42 Acenaphthene-d10	785897	392948	1571794	868466	10.51
59 Phenanthrene-d10	1313990	656995	2627980	1430172	8.84
69 Chrysene-d12	1155293	577646	2310586	1366606	18.29
134 Di-n-octylphthala	1825297	912648	3650594	2029852	11.21
77 Perylene-d12	1146289	573144	2292578	1322965	15.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.14	-0.05
27 Naphthalene-d8	10.17	9.67	10.67	10.17	-0.04
42 Acenaphthene-d10	13.03	12.53	13.53	13.02	-0.03
59 Phenanthrene-d10	15.40	14.90	15.90	15.40	-0.03
69 Chrysene-d12	19.72	19.22	20.22	19.72	-0.02
134 Di-n-octylphthala	20.84	20.34	21.34	20.85	0.04
77 Perylene-d12	21.88	21.38	22.38	21.89	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

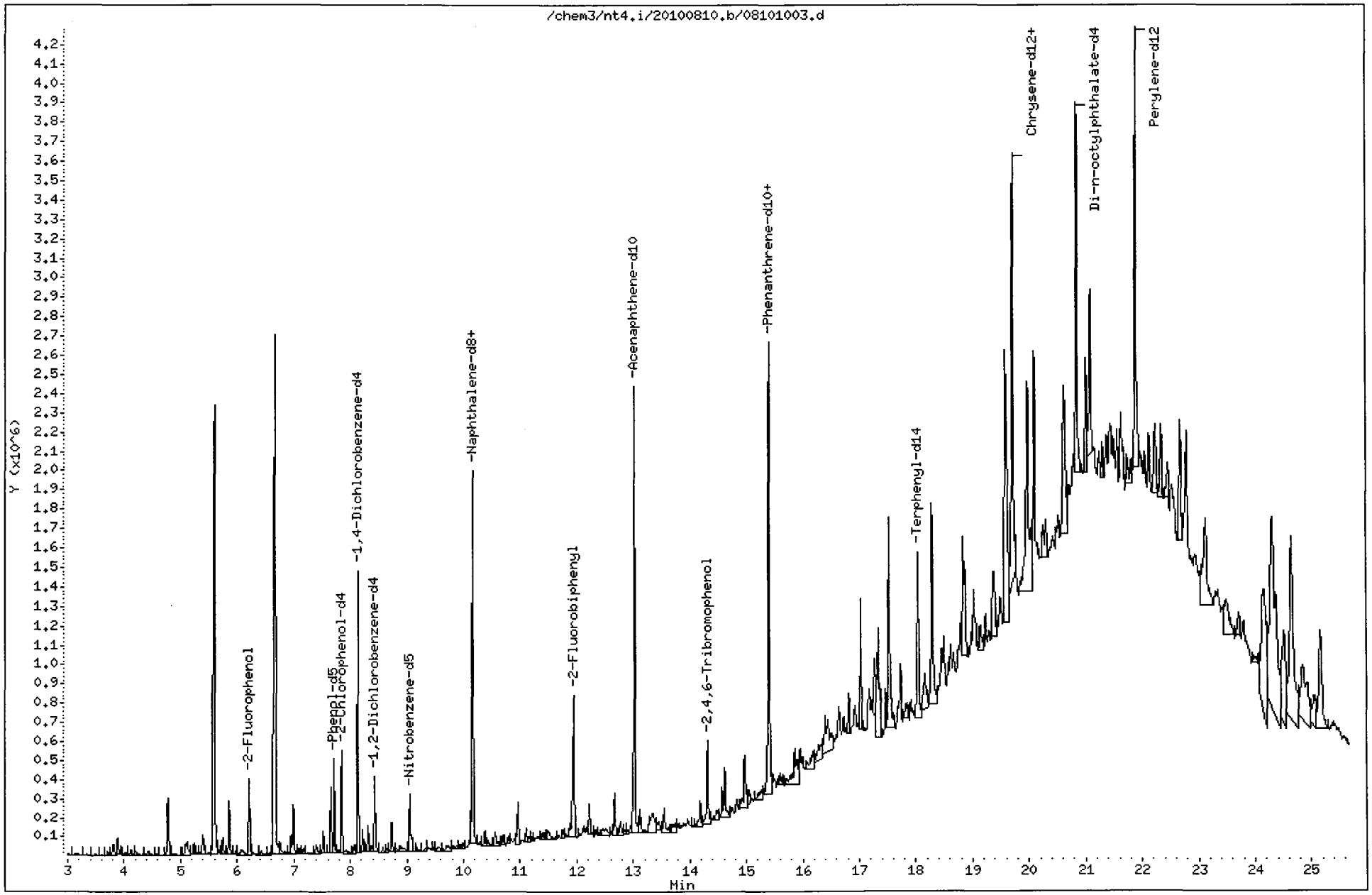
Client Name: Anchor QEA
Client SDG: RF71
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RF71A
Client Smp ID: BW-07-SC-COMP-10072
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: SONICLCS.spk
Quant Type: ISTD
Sublist File: SONIC.sub
Method File: /chem3/nt4.i/20100810.b/SW846100719.m
Misc Info: 10-17570

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	747.9	635.6	84.99	21-100
$ 2 Phenol-d5	747.9	726.4	97.13	10-100
$ 5 2-Chlorophenol-d4	747.9	645.5	86.31	30-100
$ 10 1,2-Dichlorobenzen	498.6	345.1	69.21	24-100
$ 18 Nitrobenzene-d5	498.6	393.5	78.92	26-100
$ 36 2-Fluorobiphenyl	498.6	412.3	82.69	32-100
$ 55 2,4,6-Tribromophen	747.9	730.9	97.73	33-118
$ 66 Terphenyl-d14	498.6	433.3	86.91	25-116

Data File: /chem3/nt4.i/20100810.b/08101003.d
Date : 10-AUG-2010 13:12
Client ID: BW-07-SC-COMP-10072
Sample Info: RF71A,3,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RF71:08351



Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

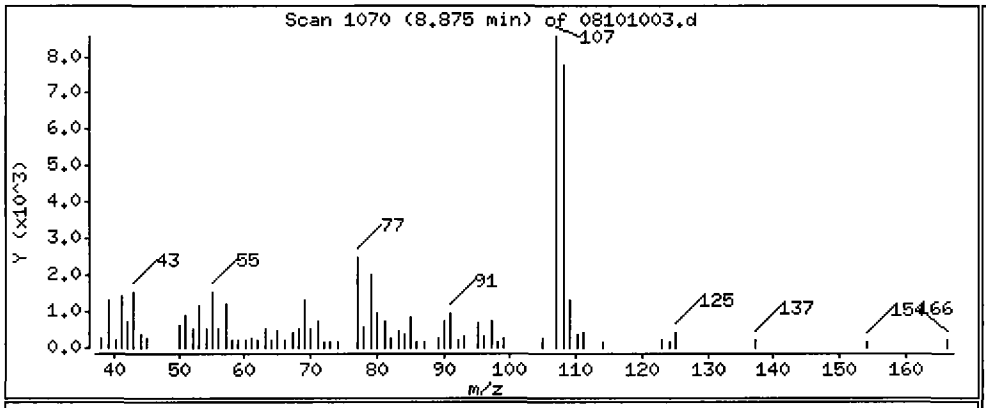
Operator: JZ

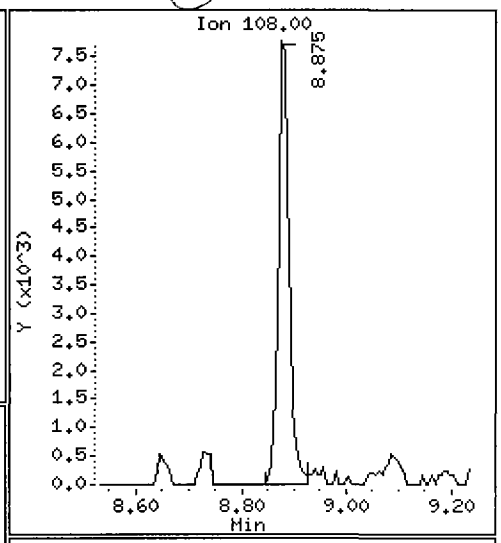
Column phase: ZB-5msi

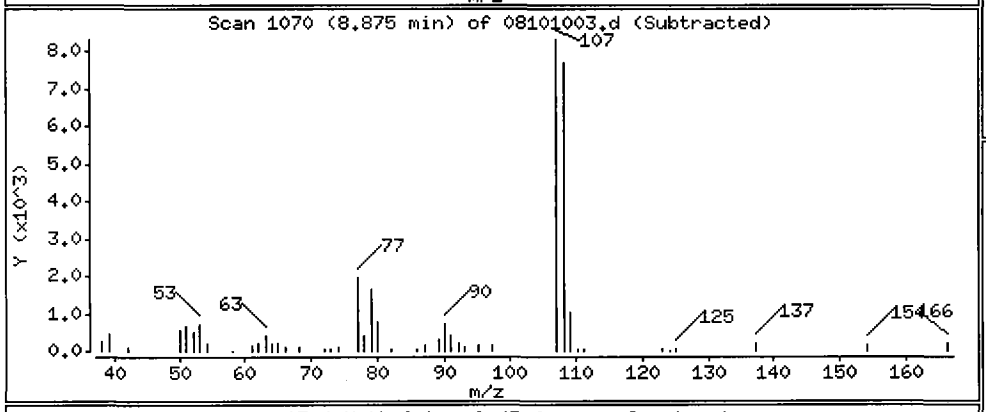
Column diameter: 0.32

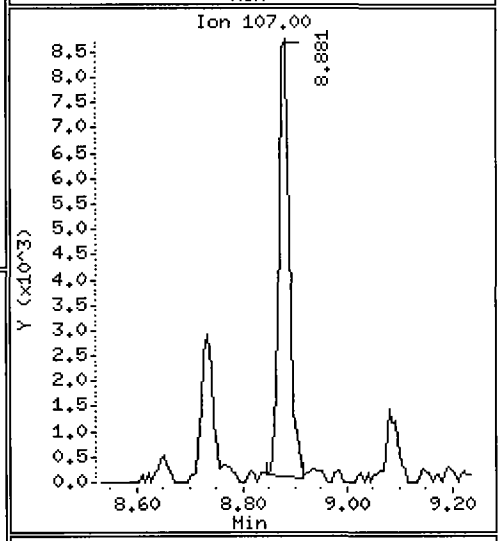
15 4-Methylphenol

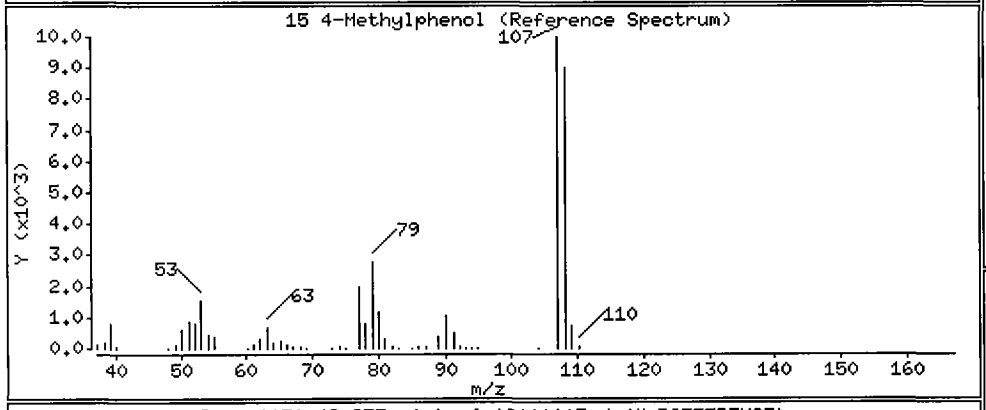
Concentration: 32.67 ug/kg

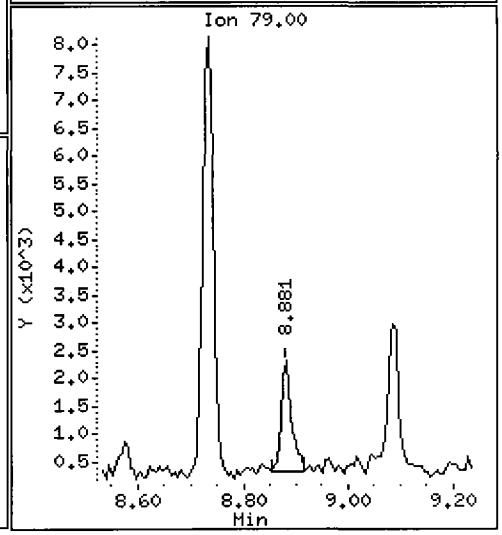


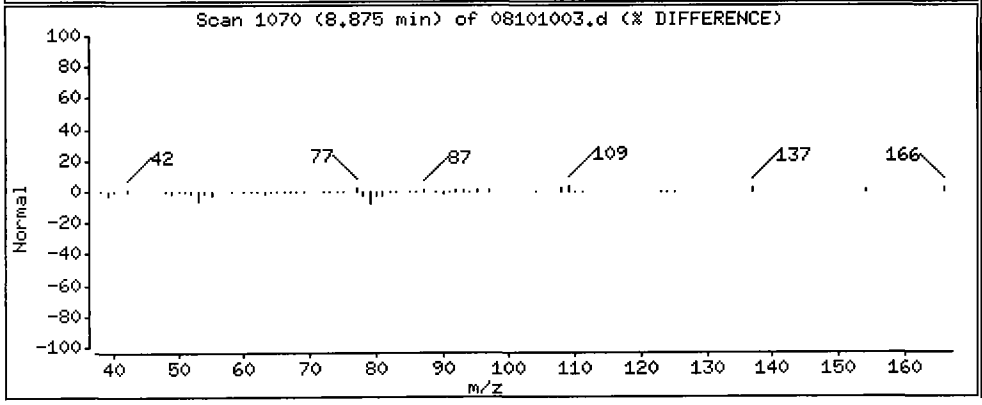












Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

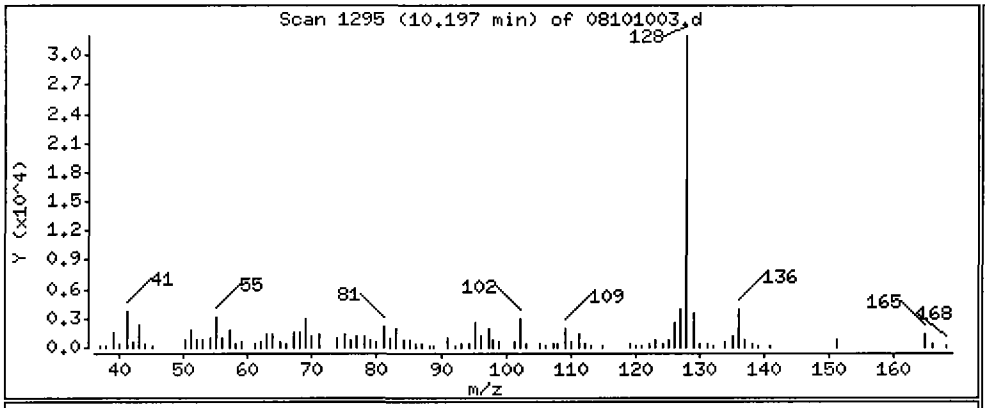
Operator: JZ

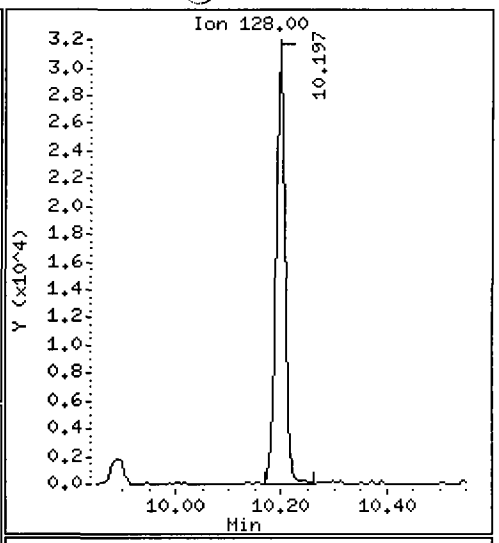
Column phase: ZB-5msi

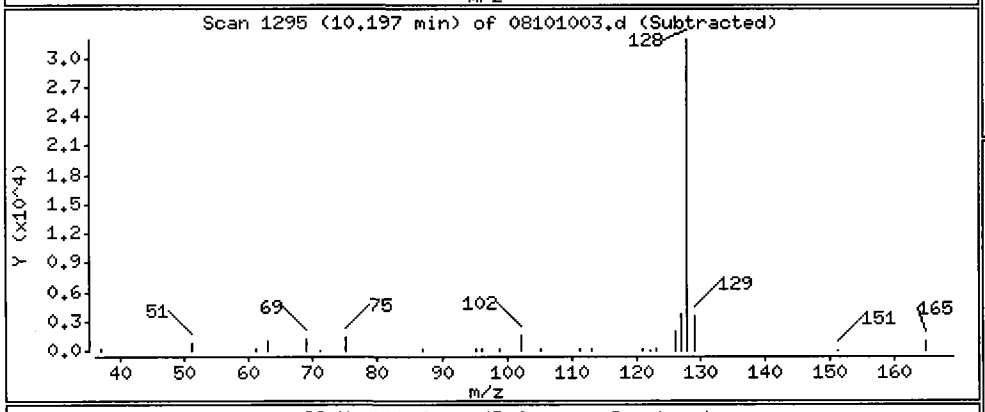
Column diameter: 0.32

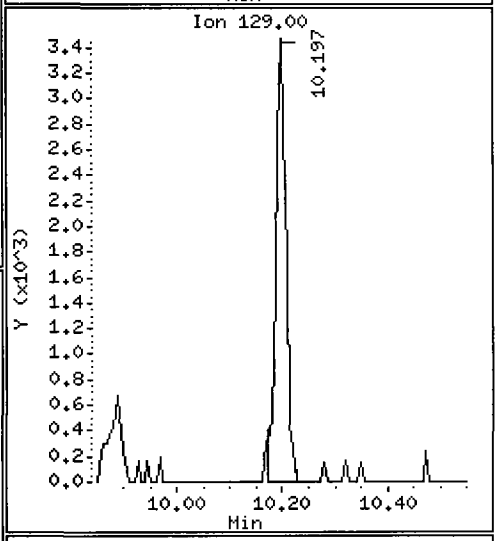
28 Naphthalene

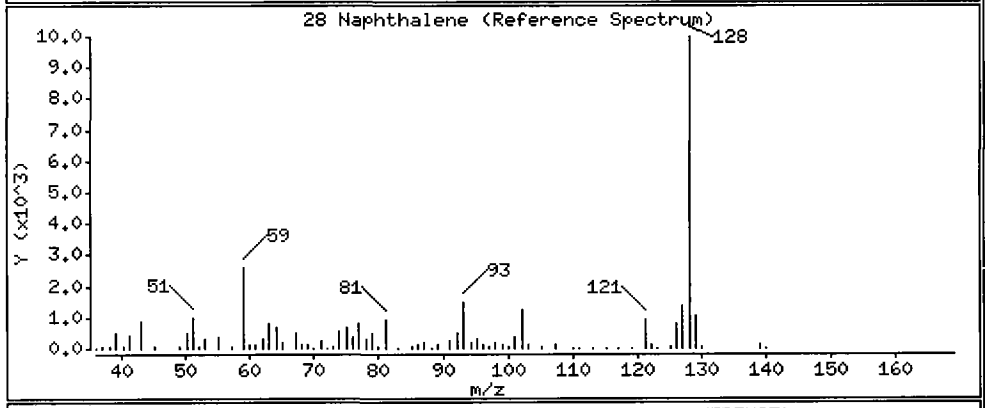
Concentration: 36.92 ug/kg

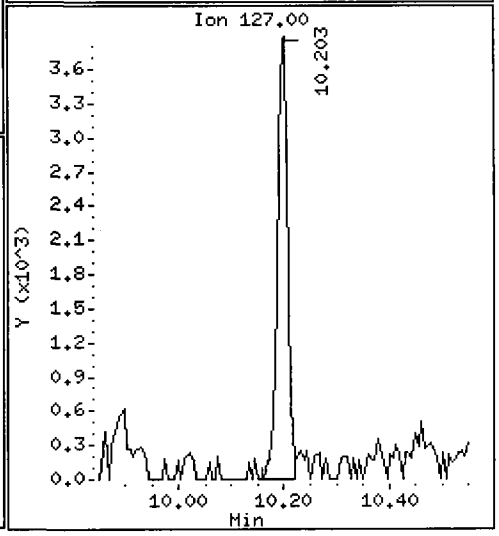


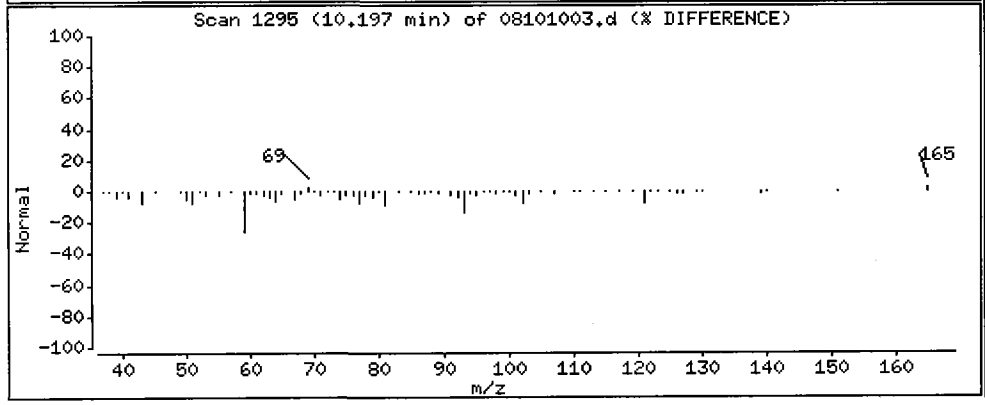












Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

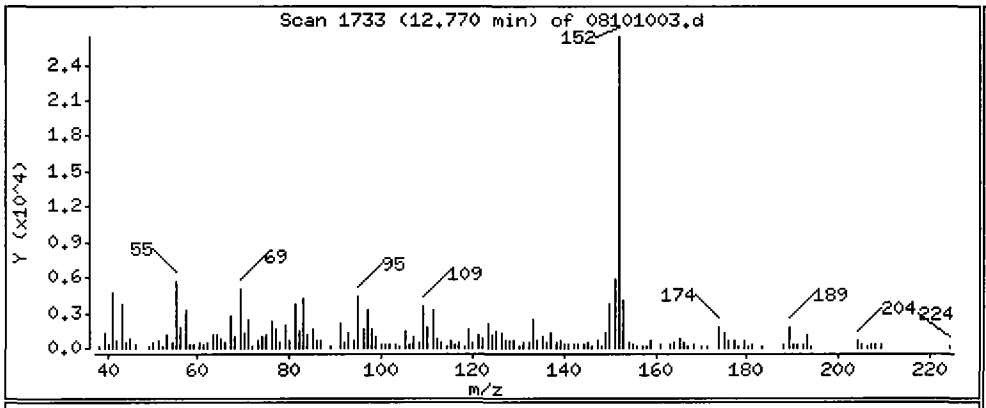
Operator: JZ

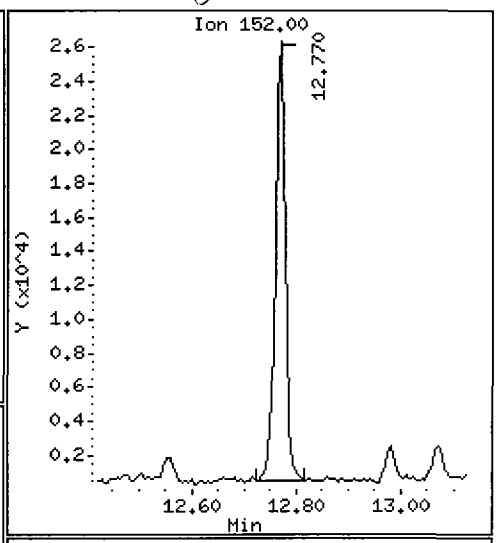
Column phase: ZB-5msi

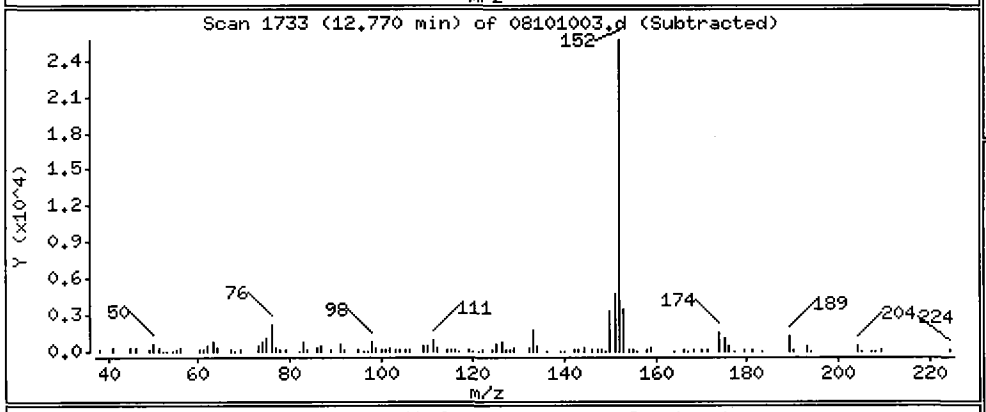
Column diameter: 0.32

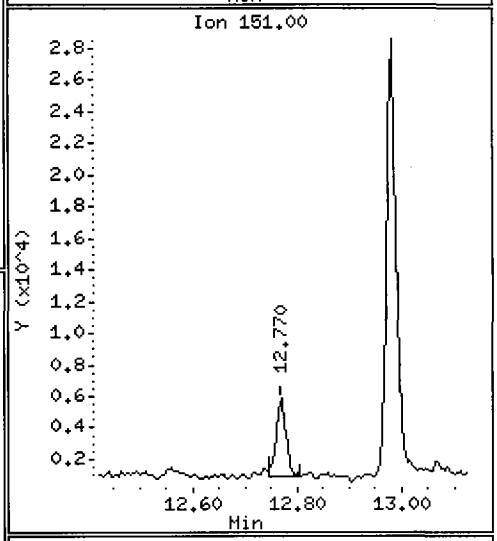
40 Acenaphthylene

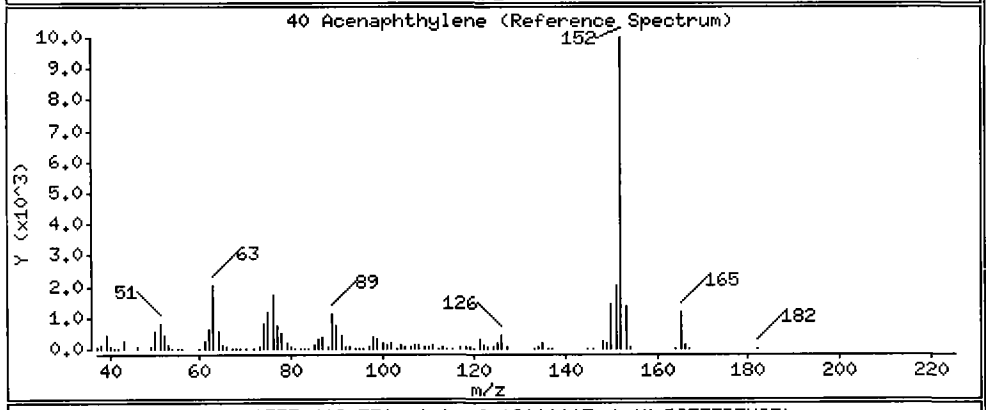
Concentration: 30.26 ug/kg

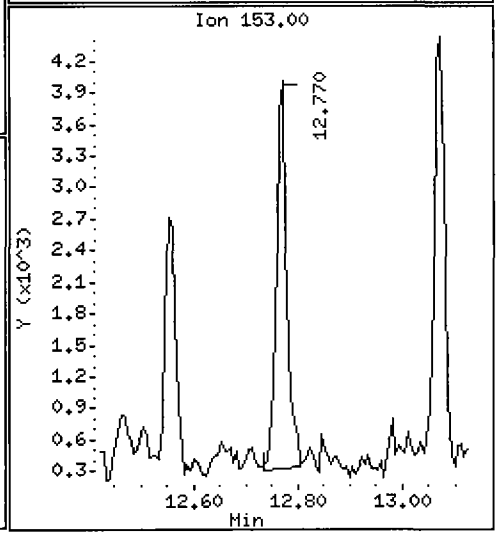


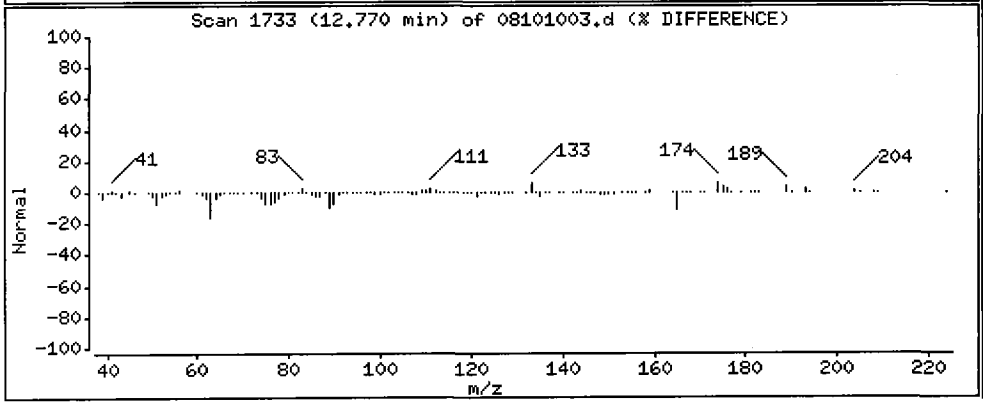












Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

Operator: JZ

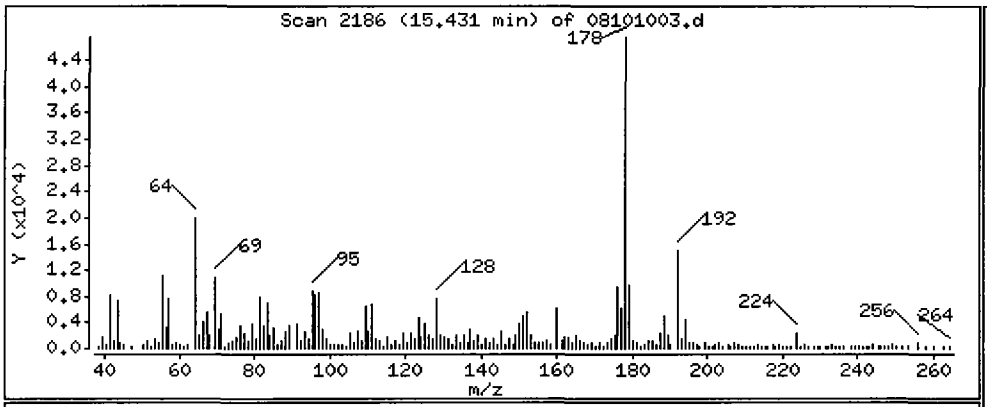
Column phase: ZB-5msi

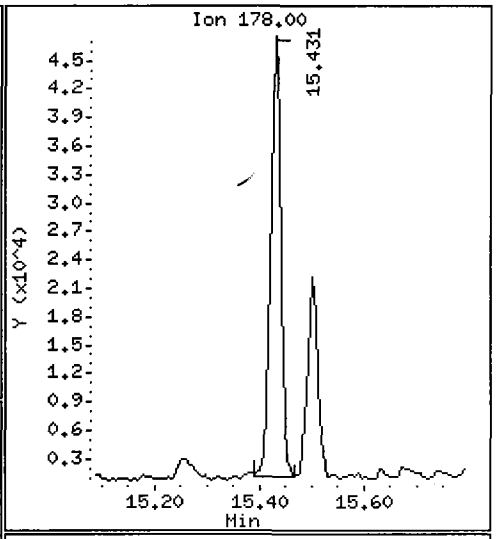
Column diameter: 0.32

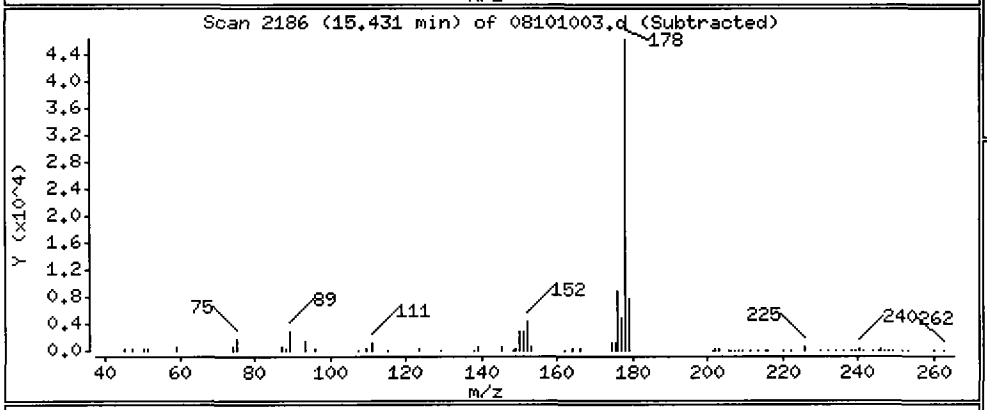
JUL

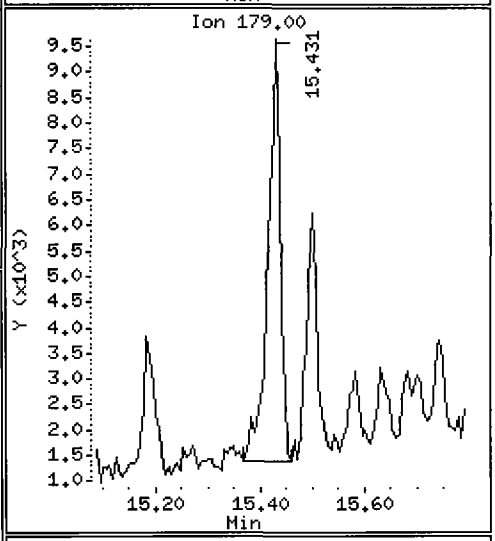
60 Phenanthrene

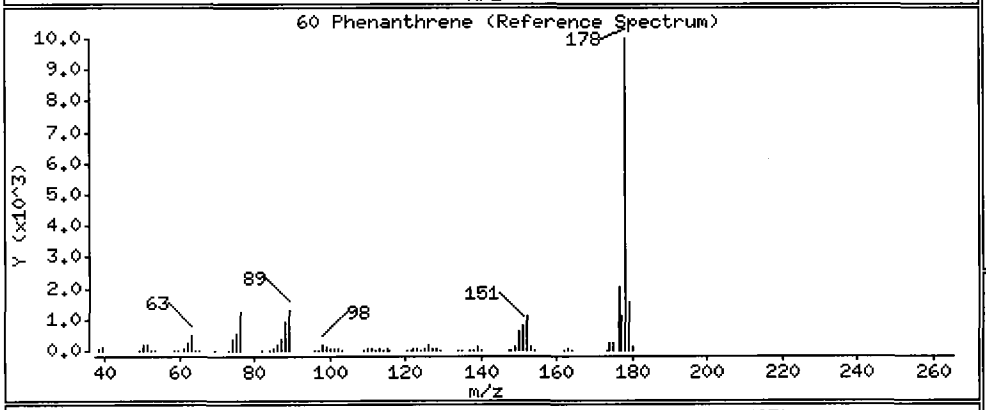
Concentration: 52.16 ug/kg

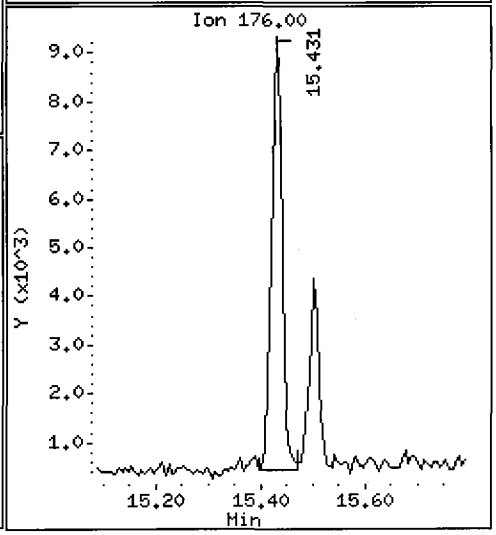


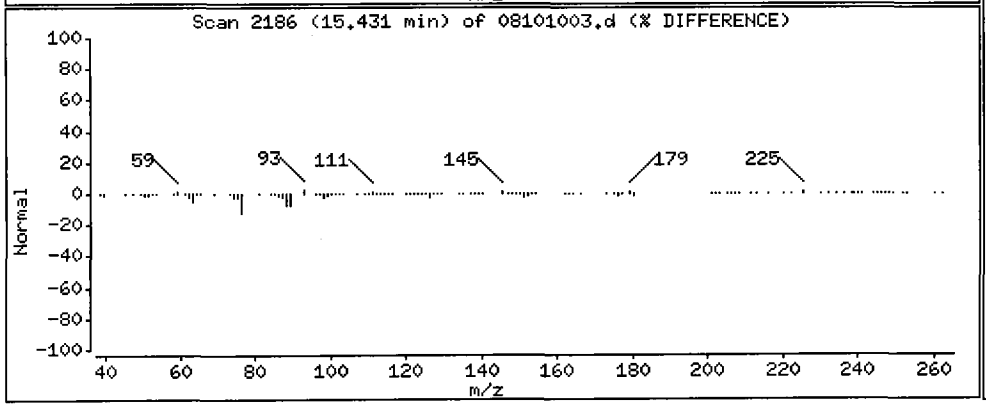












Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

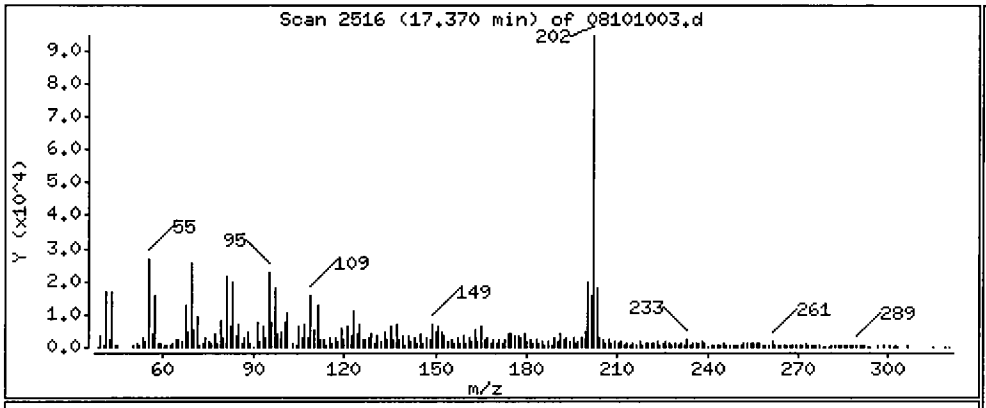
Operator: JZ

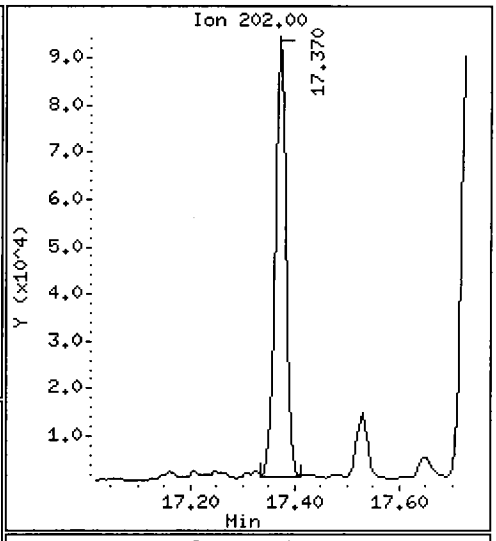
Column phase: ZB-5msi

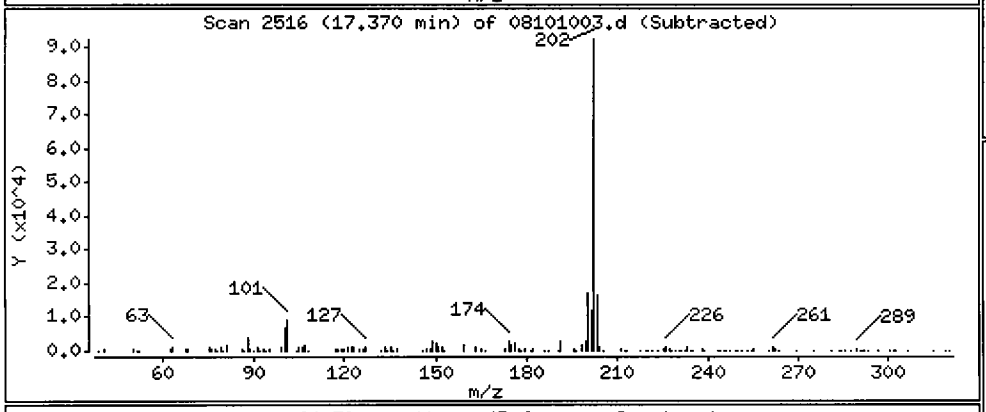
Column diameter: 0.32

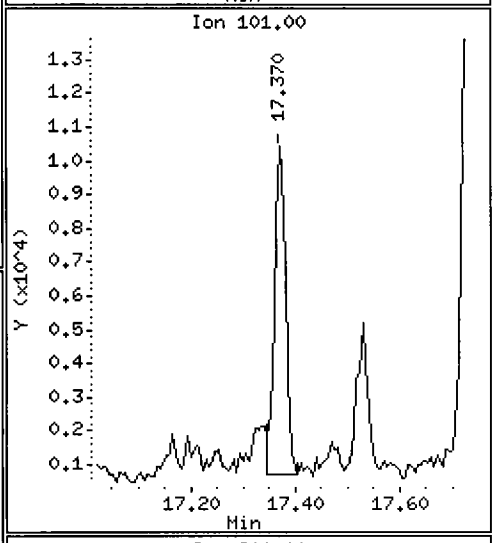
64 Fluoranthene

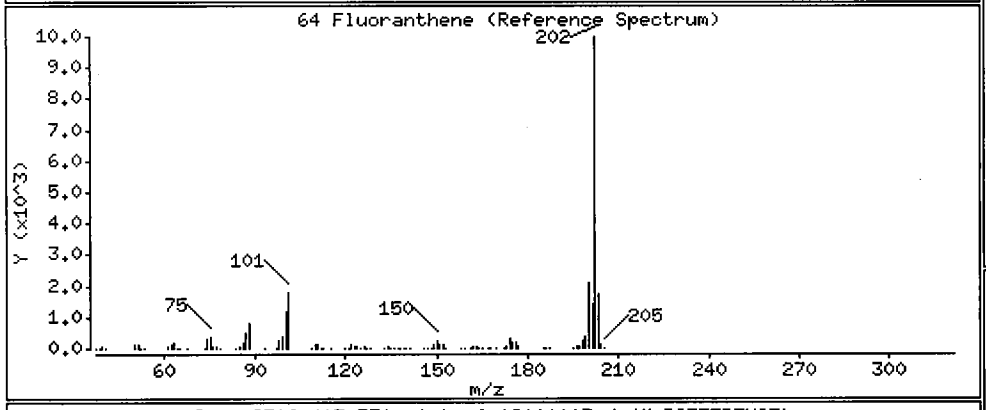
Concentration: 108.1 ug/kg

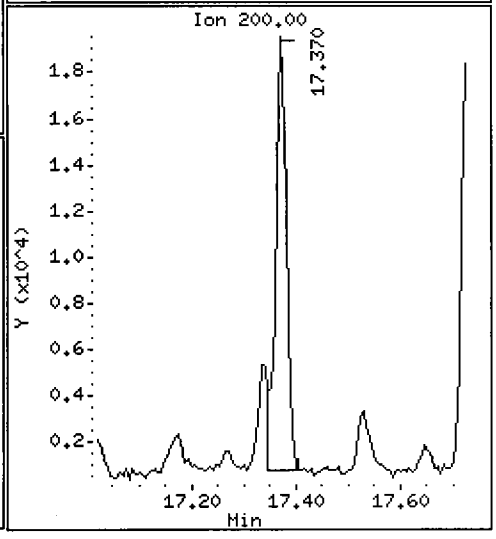


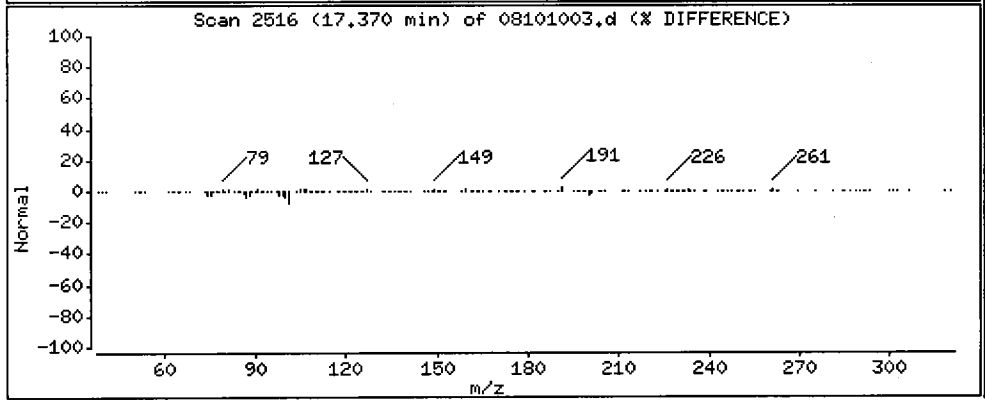












Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

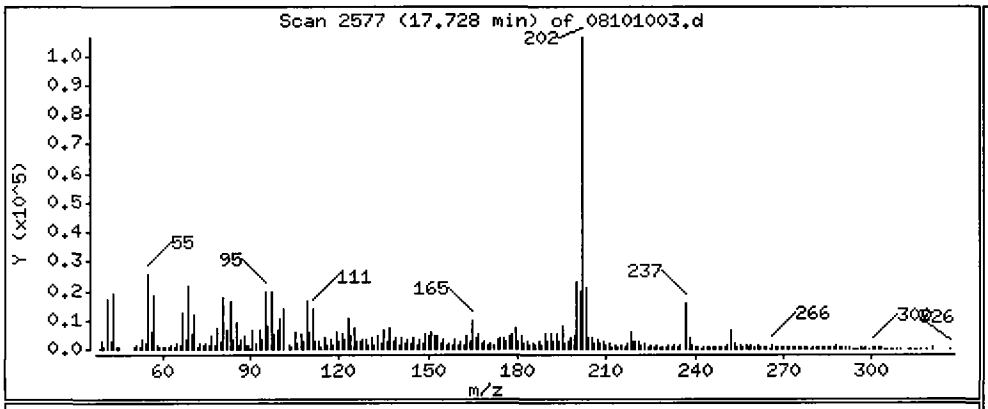
Operator: JZ

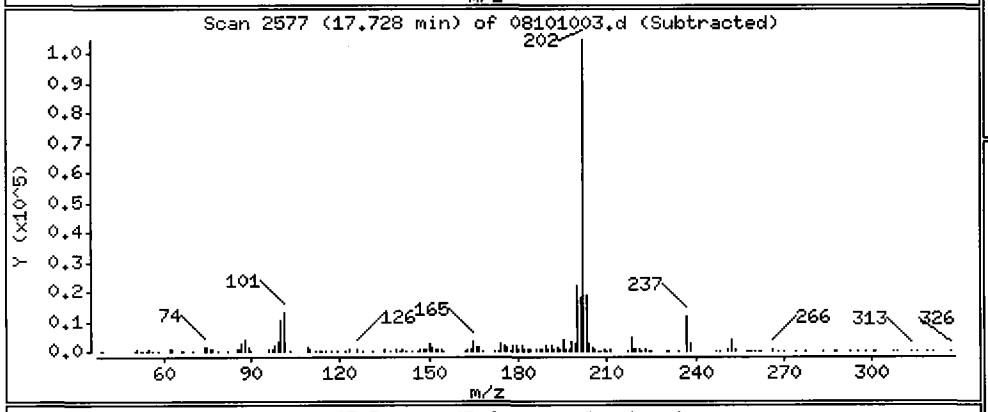
Column phase: ZB-5msi

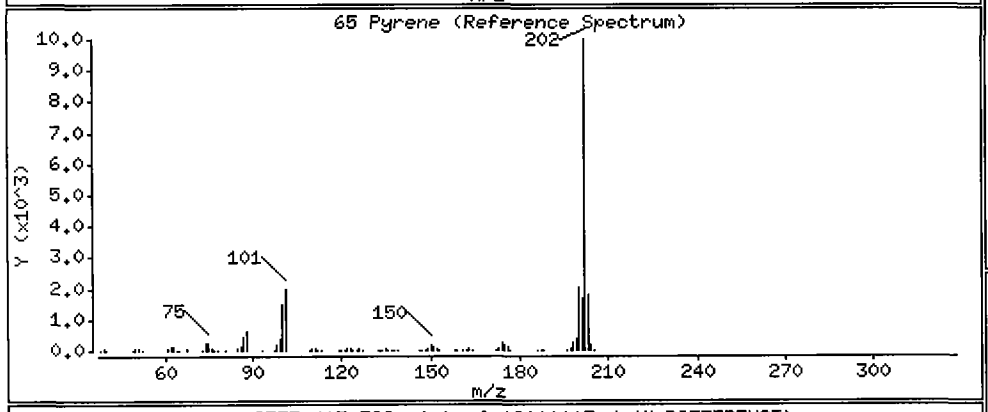
Column diameter: 0.32

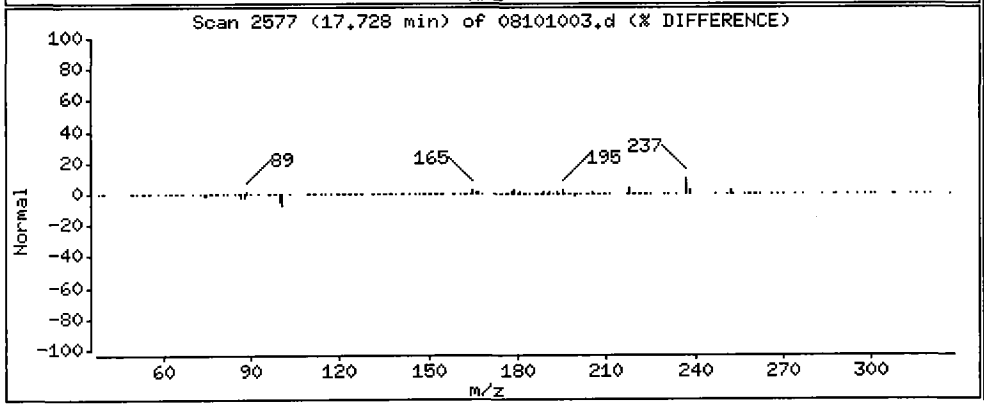
65 Pyrene

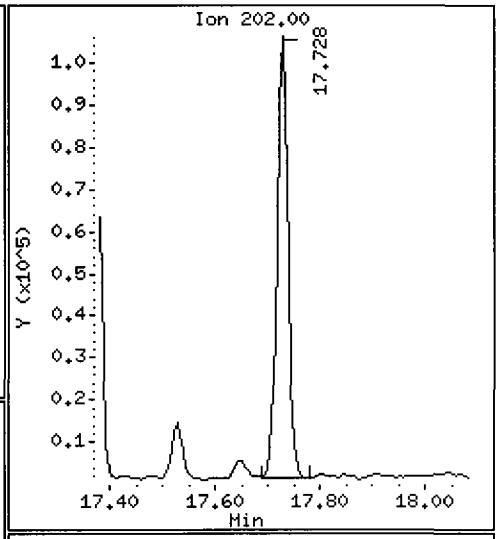
Concentration: 110.3 ug/kg

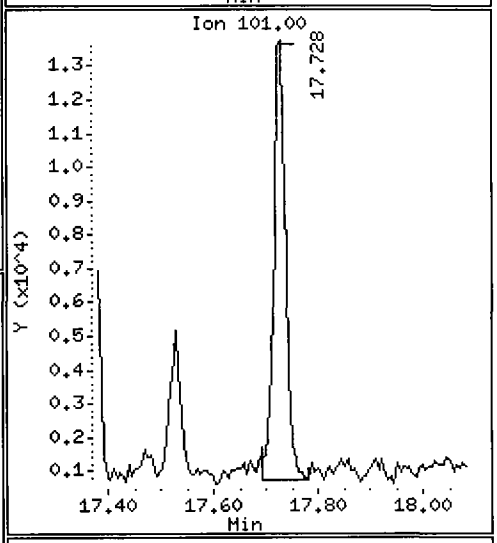


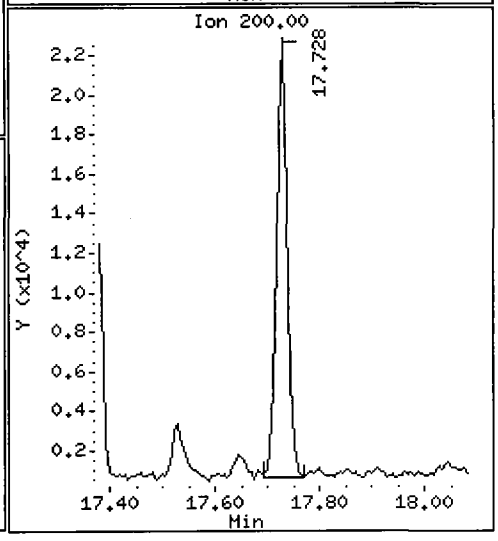












Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

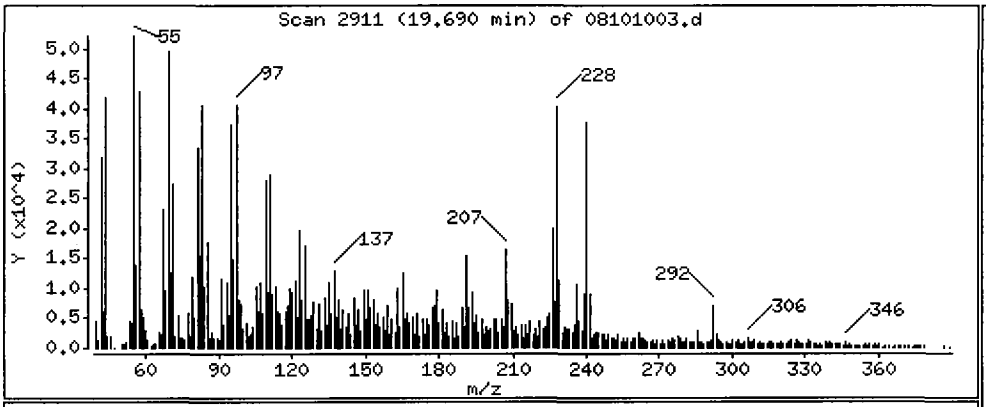
Client ID: BW-07-SC-COMP-10072 Instrument: nt4.i

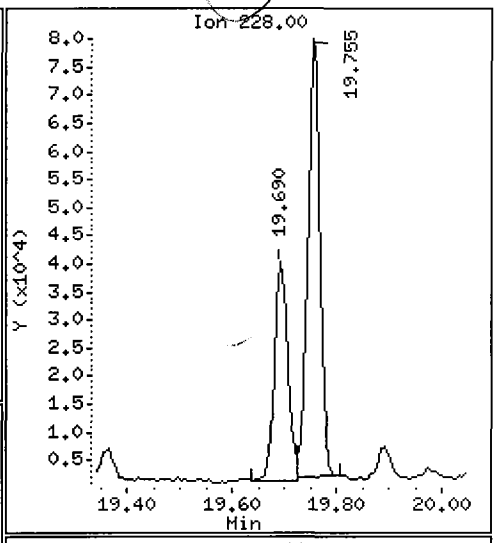
Sample Info: RF71A,3,

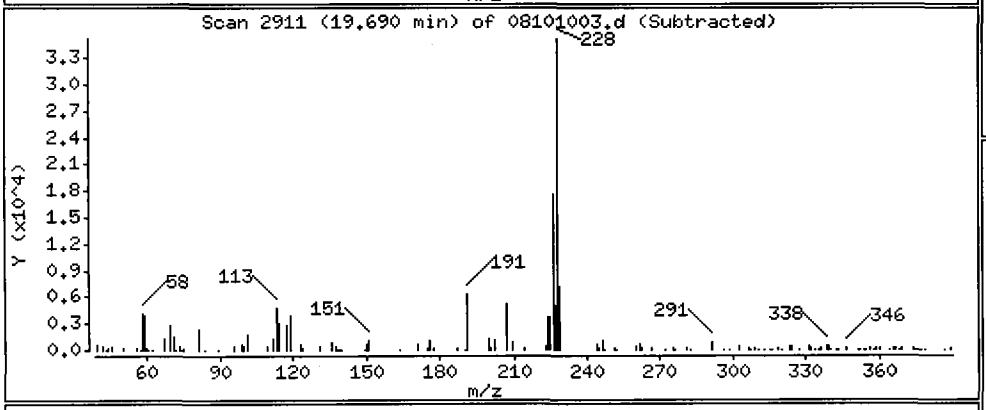
Volume Injected (uL): 1.0 Operator: JZ

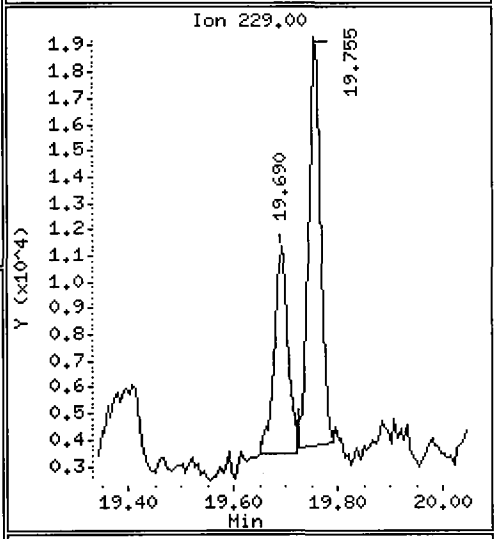
Column phase: ZB-5msi Column diameter: 0.32

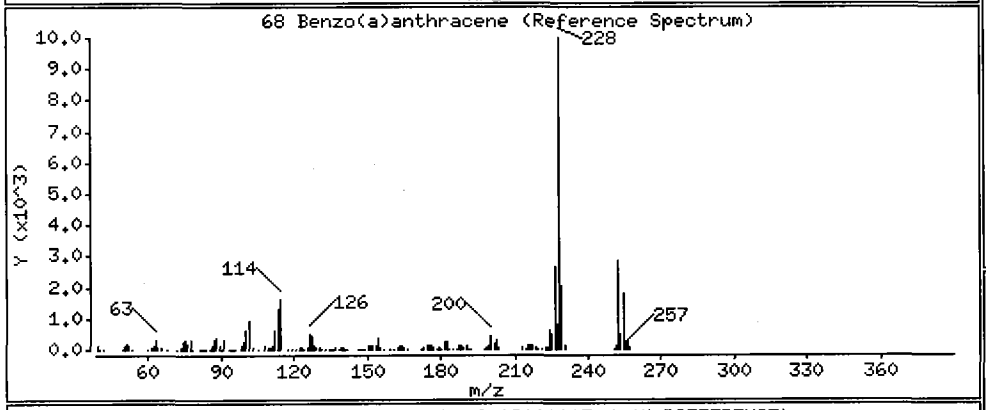
68 Benzo(a)anthracene Concentration: 54.61 ug/kg

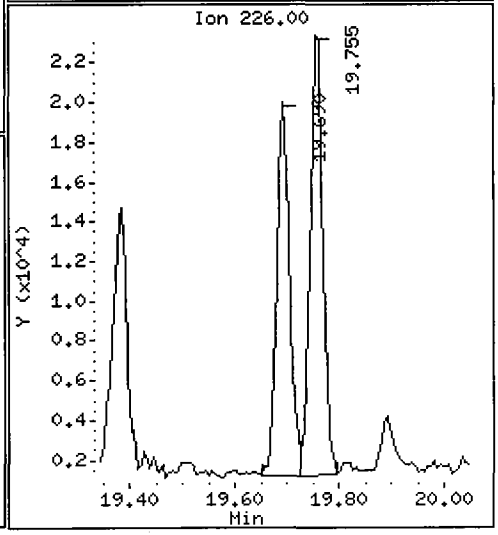


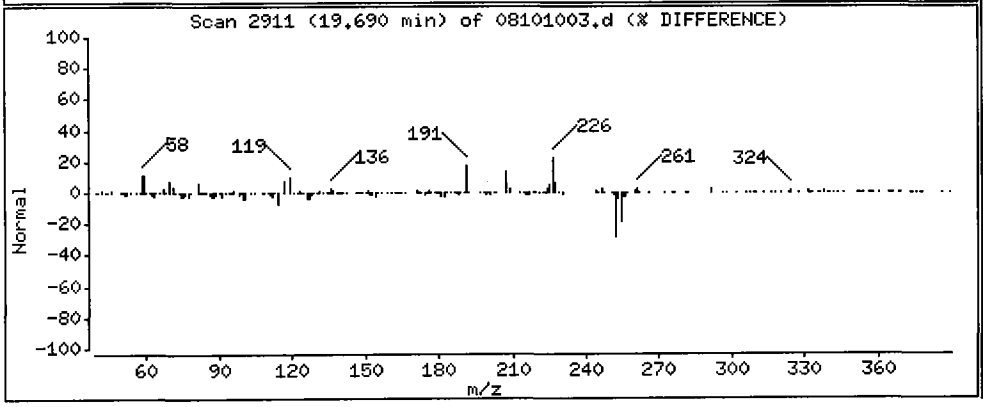












Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

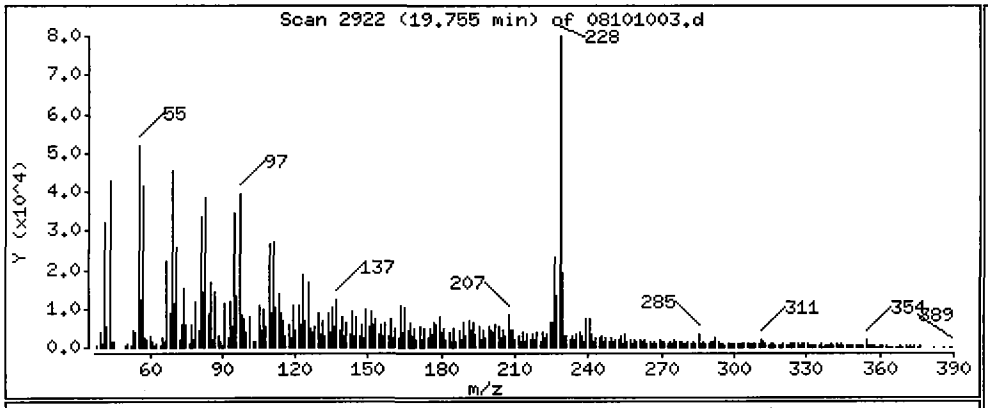
Operator: JZ

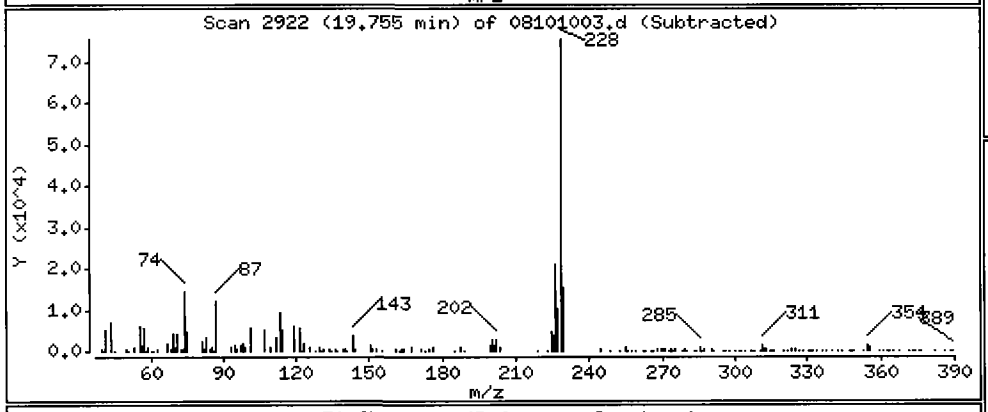
Column phase: ZB-5msi

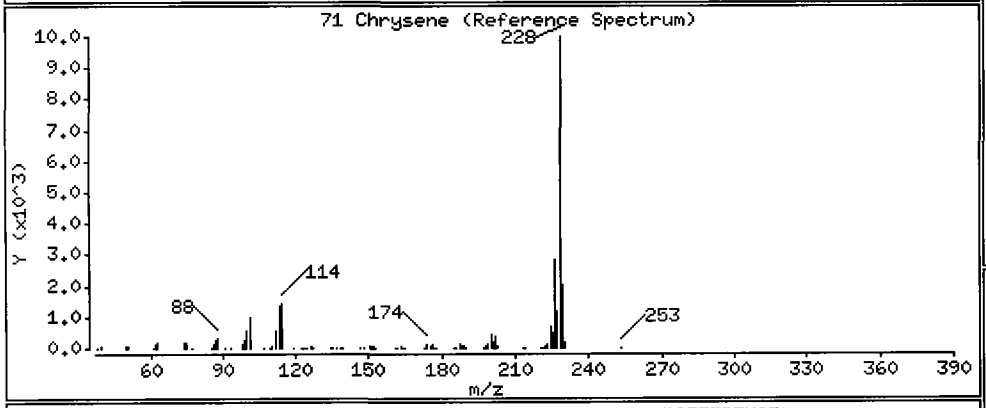
Column diameter: 0.32

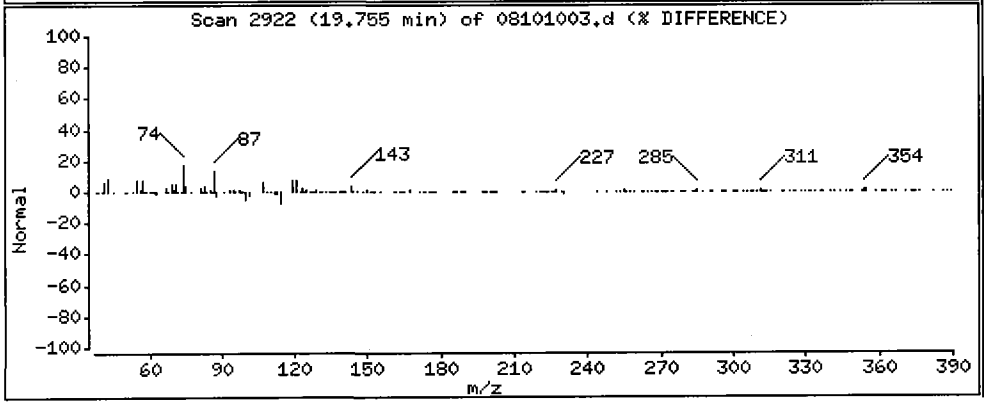
71 Chrysene

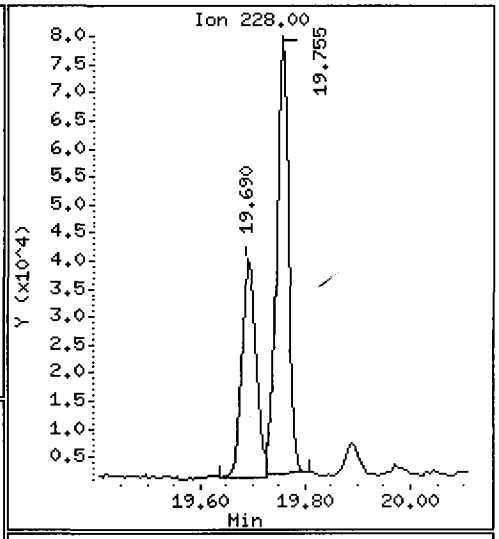
Concentration: 96.84 ug/kg

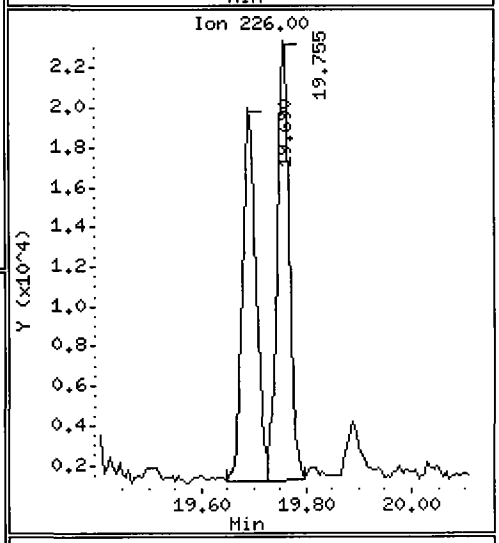


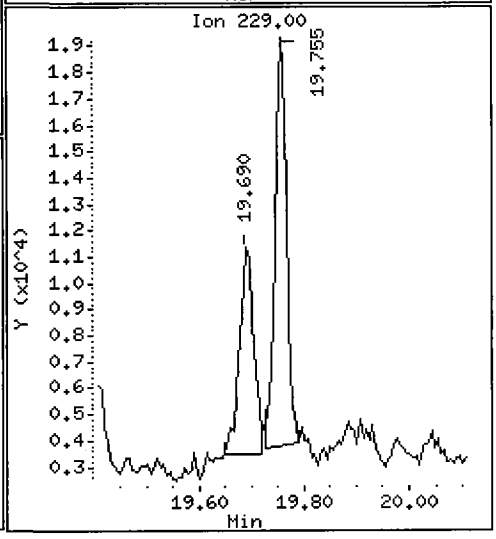






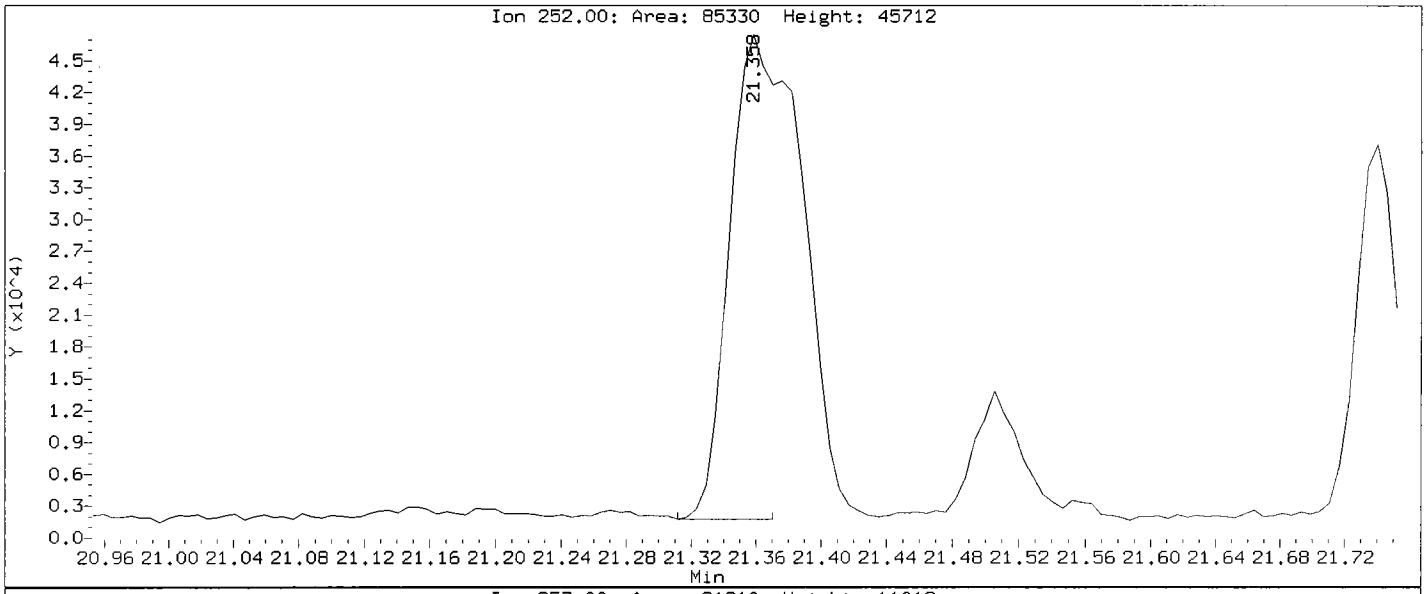


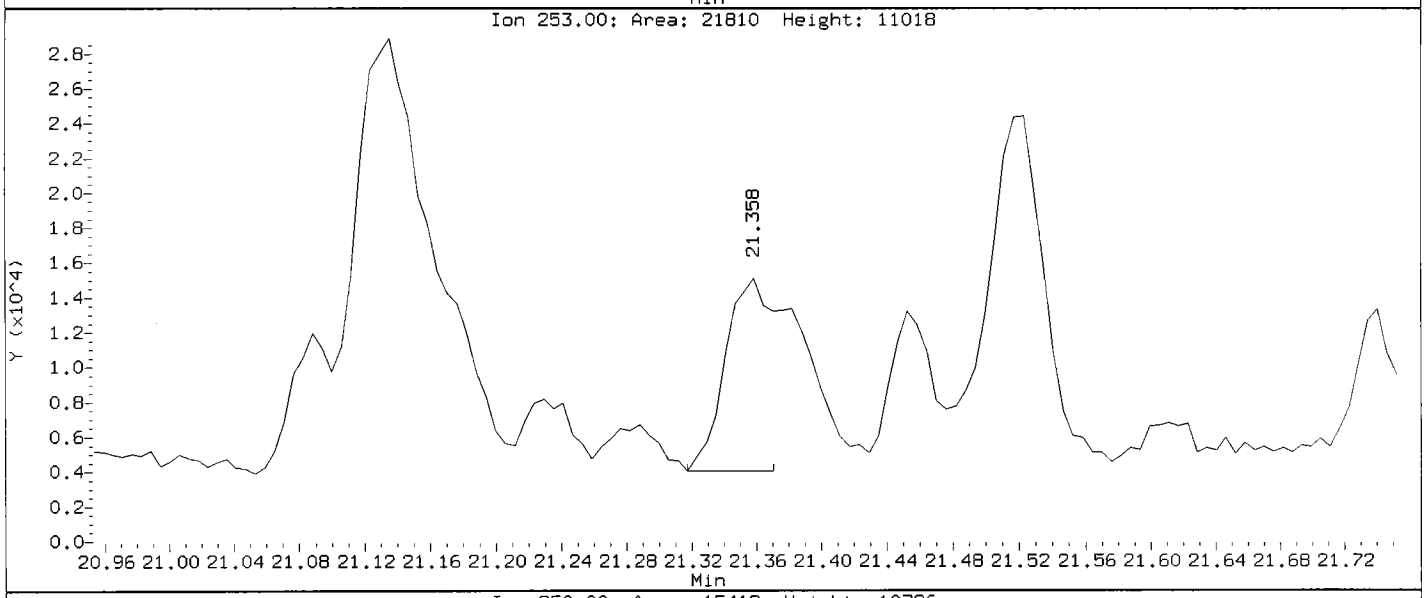


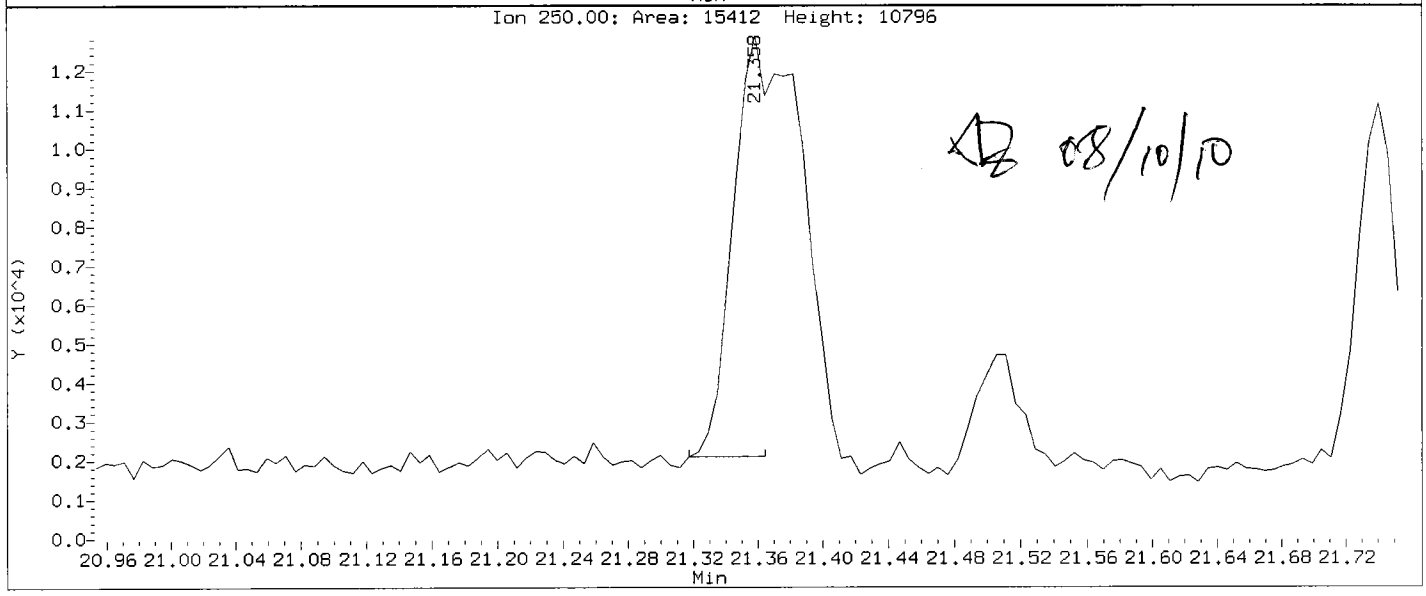


Data File: /chem3/nt4.i/20100810.b/08101003.d
Injection Date: 10-AUG-2010 13:12
Instrument: nt4.i
Client Sample ID: BW-07-SC-COMP-10072

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





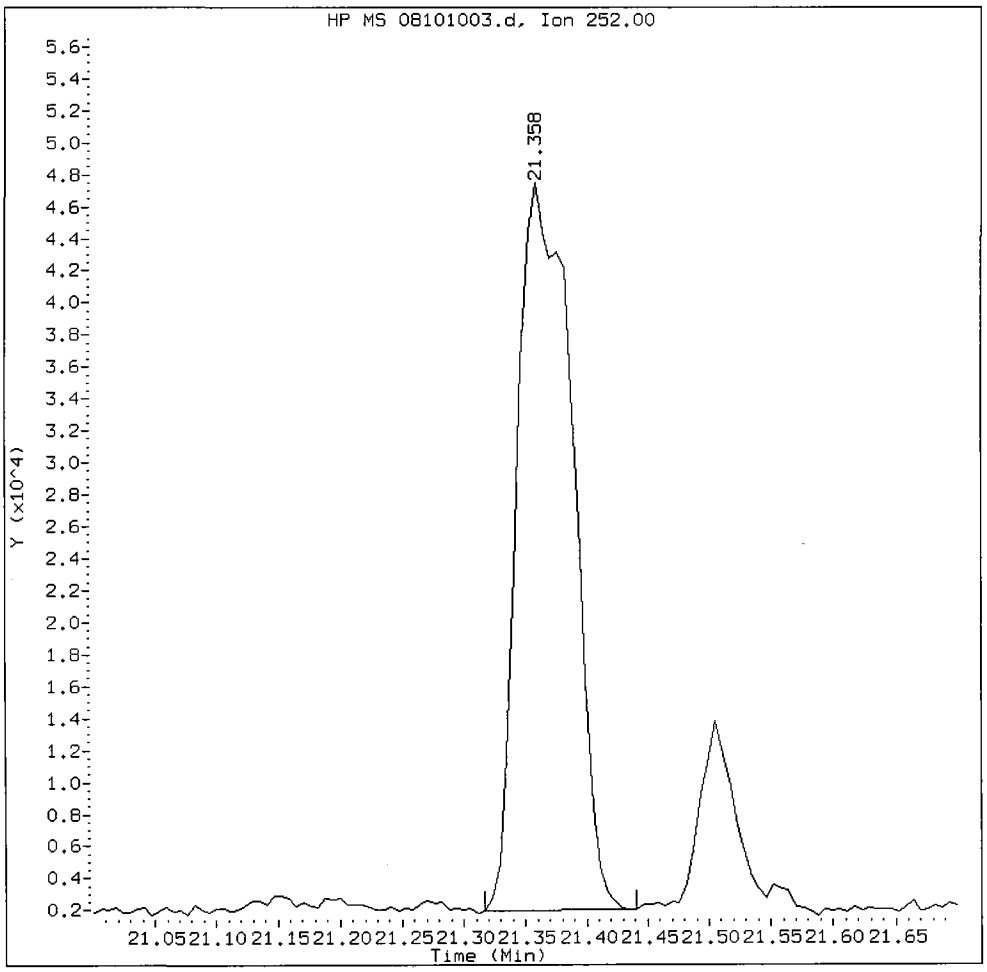


08/10/10

RF71 : 00363

RF71A, /chem3/nt4.i/20100810.b/08101003.d

Benzo(b)fluoranthene Amount: 1.72 Area: 141998



MANUAL INTEGRATION for Benzo(b)fluoranthene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 08/10/10

Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

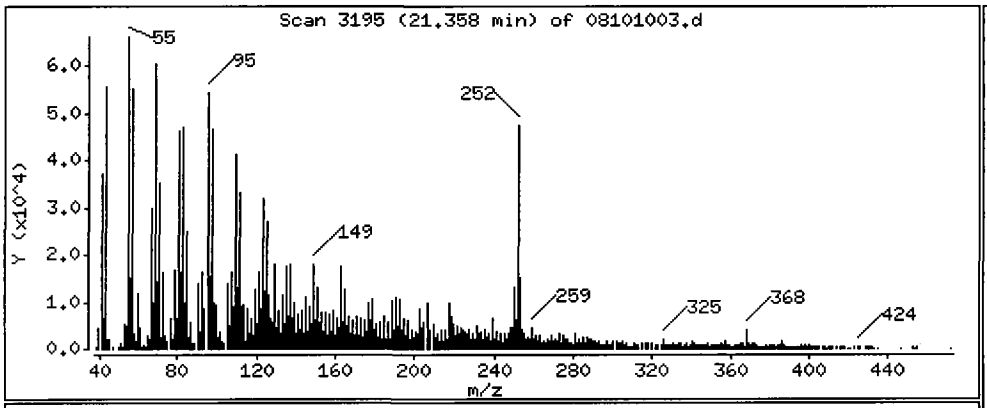
Client ID: BW-07-SC-COMP-10072 Instrument: nt4.i

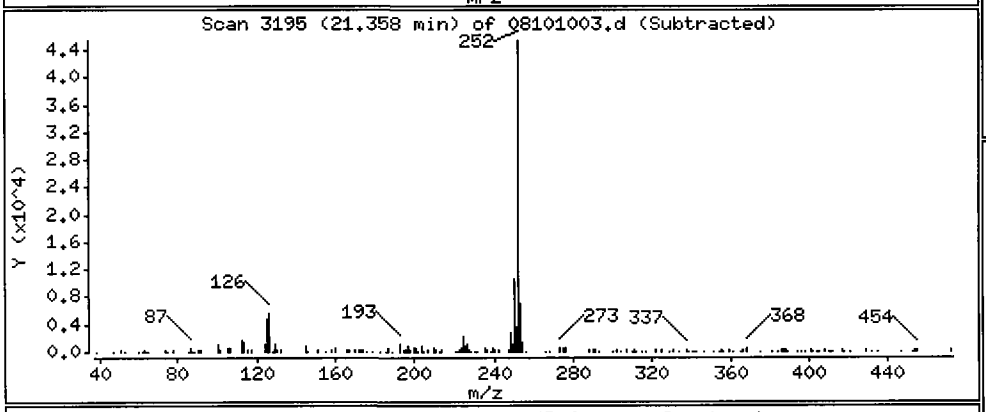
Sample Info: RF71A,3,

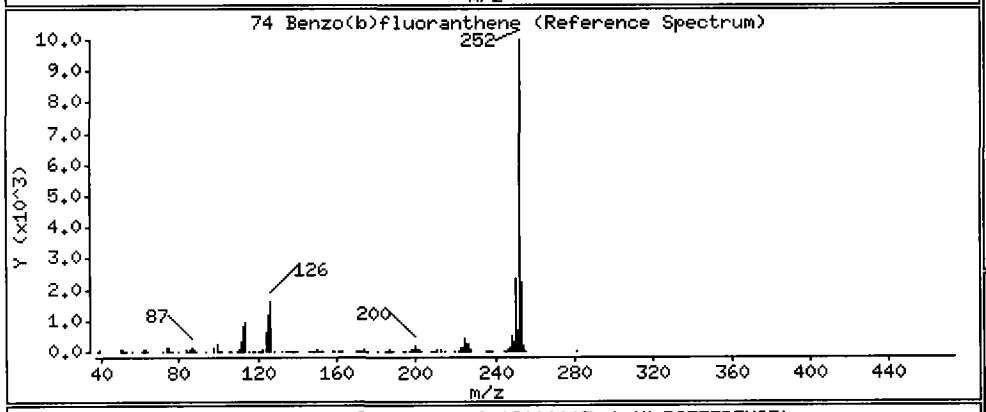
Volume Injected (uL): 1.0 Operator: JZ

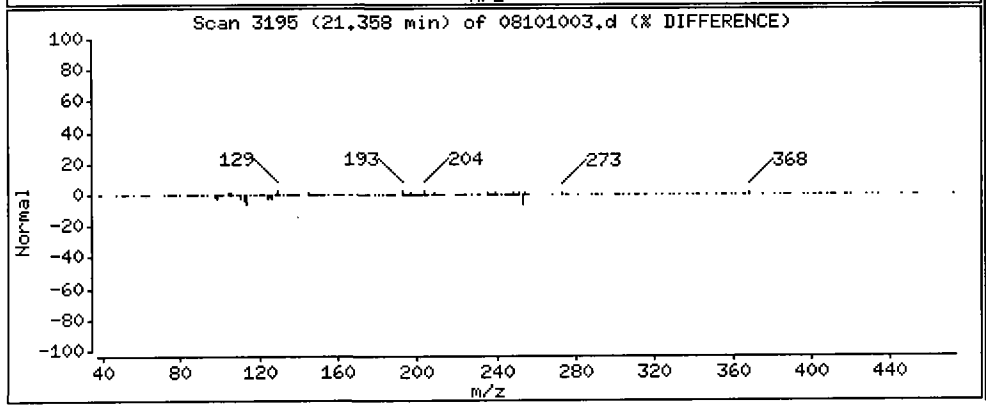
Column phase: ZB-5msi Column diameter: 0.32

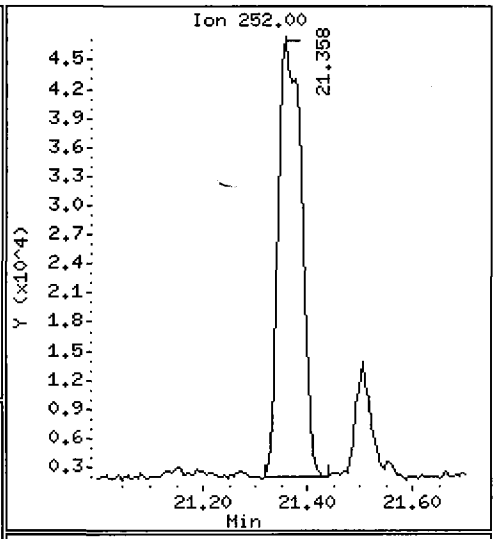
74 Benzo(b)fluoranthene Concentration: 103.2 ug/kg

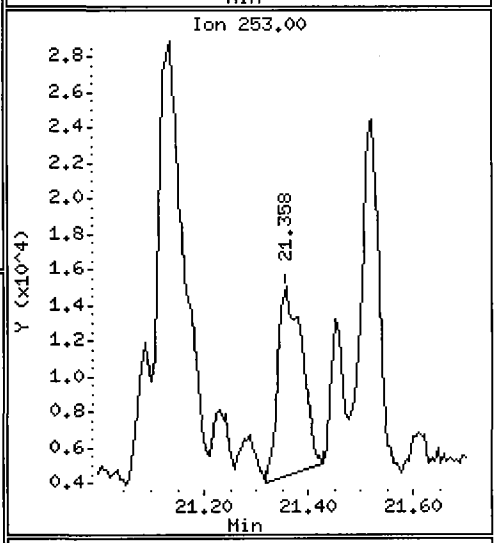


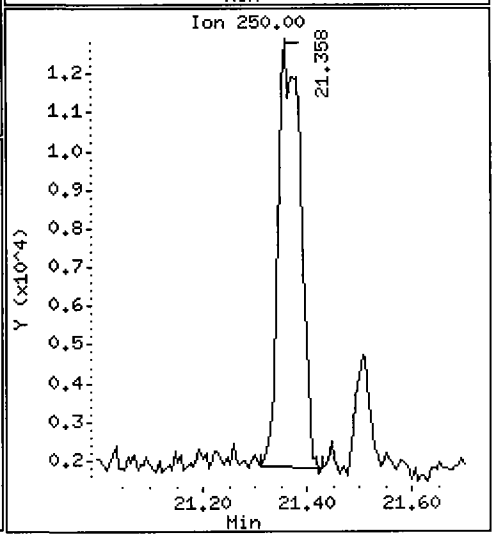






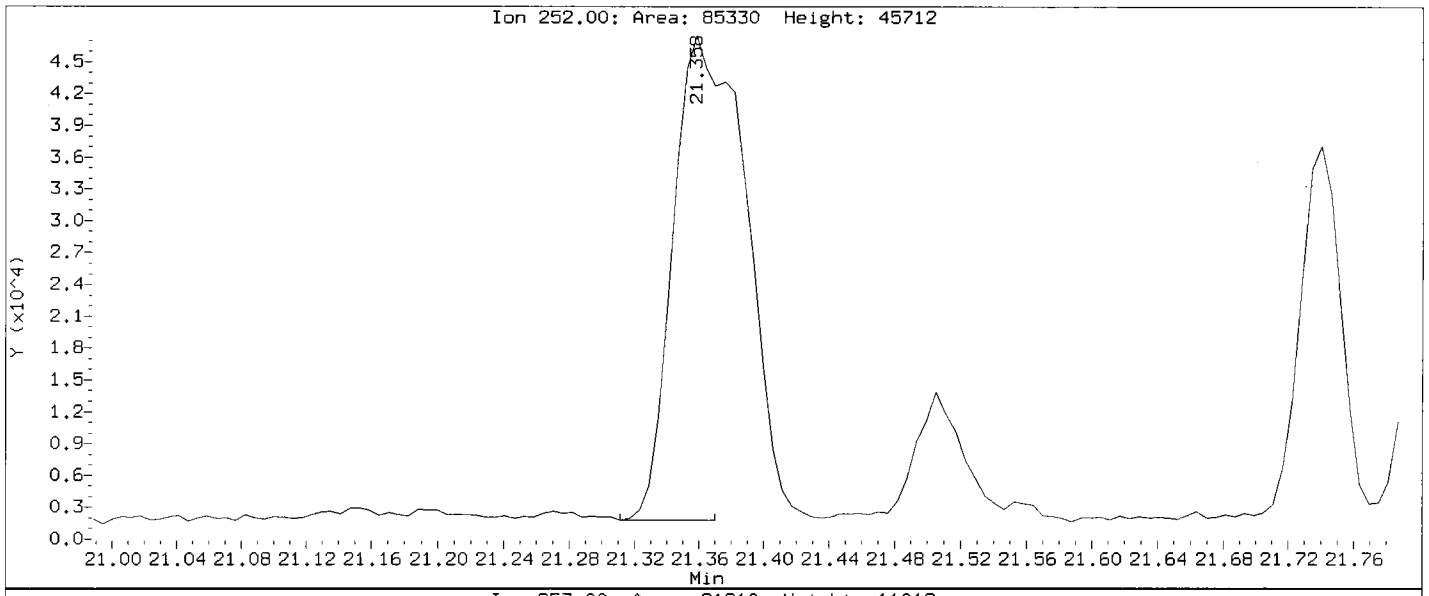


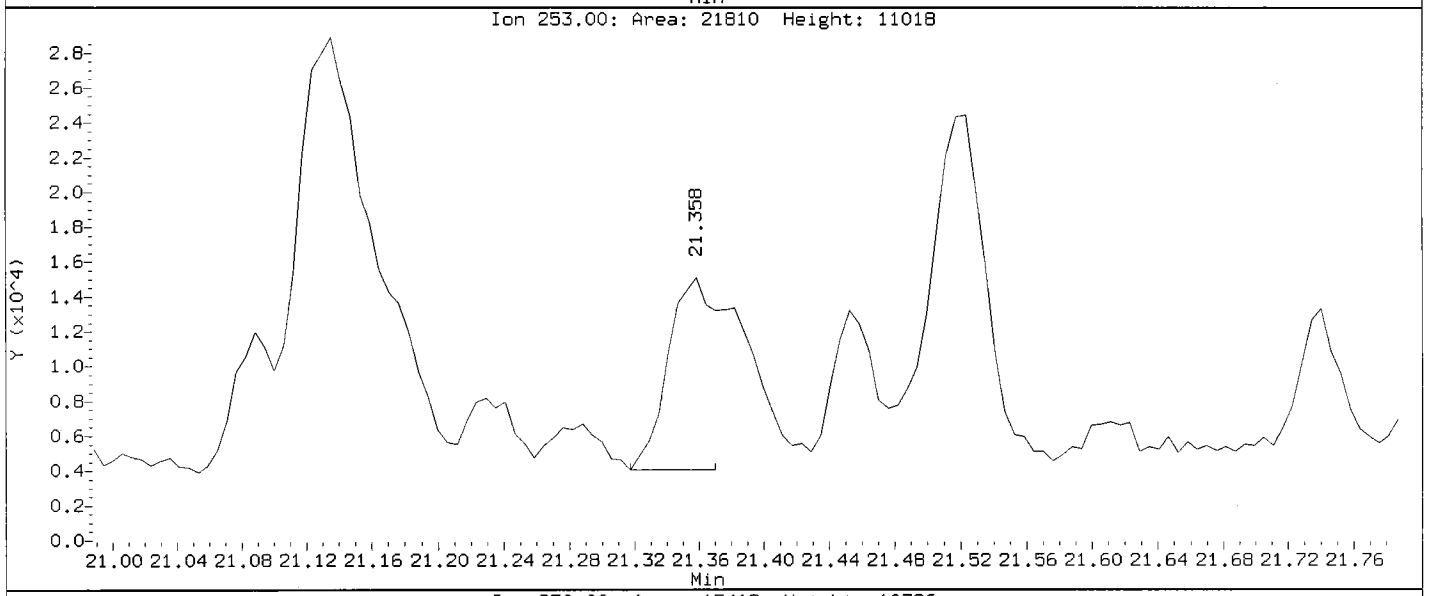


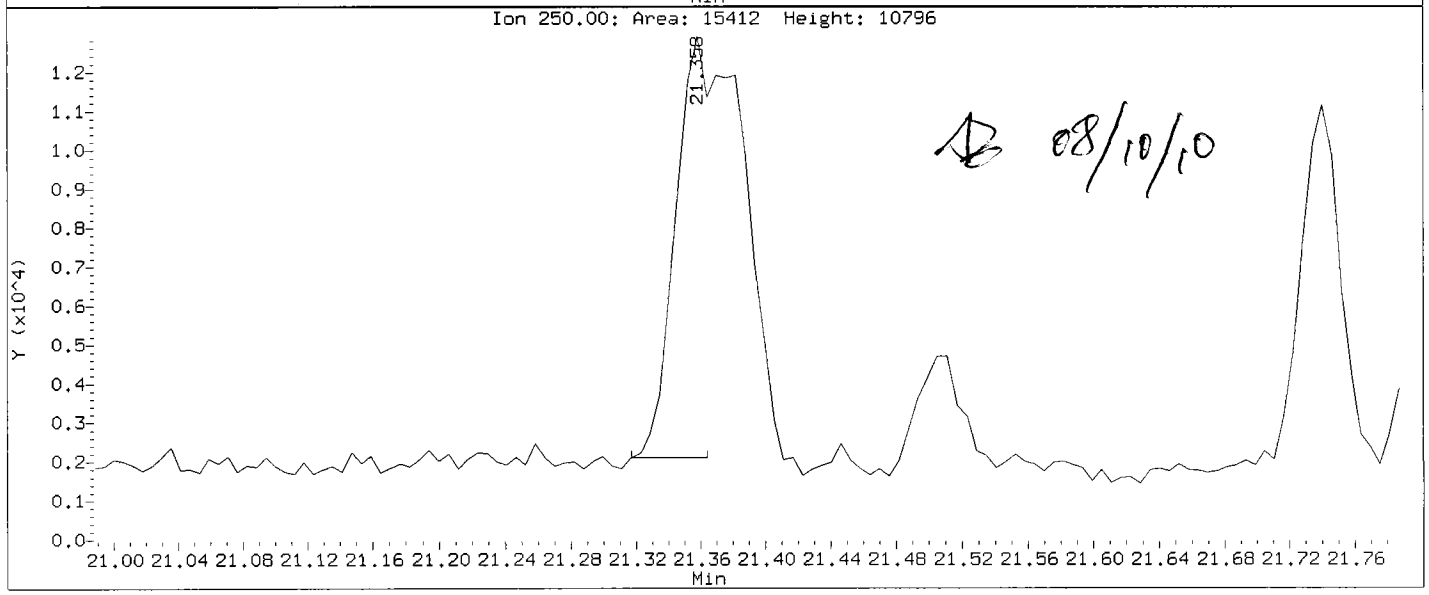


Data File: /chem3/nt4.i/20100810.b/08101003.d
Injection Date: 10-AUG-2010 13:12
Instrument: nt4.i
Client Sample ID: BW-07-SC-COMP-10072

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





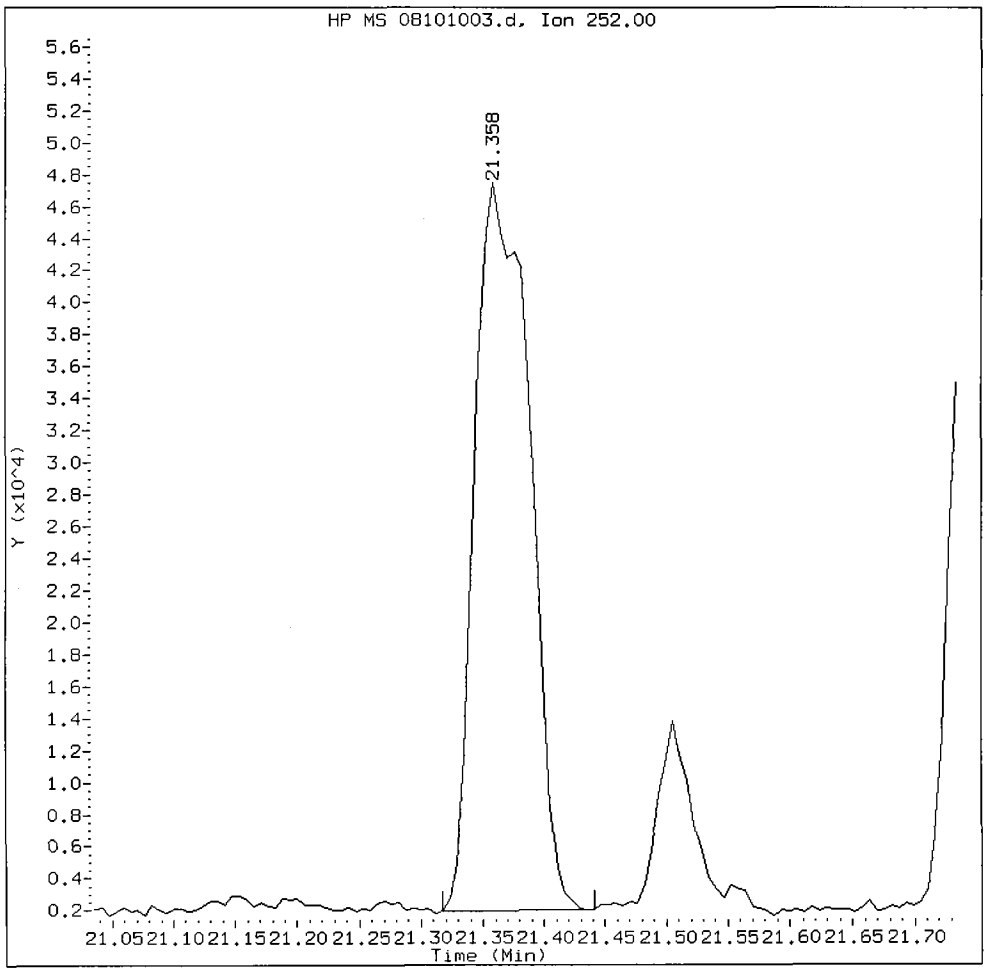


08/10/10

RF71 : 00366

RF71A, /chem3/nt4.i/20100810.b/08101003.d

Benzo(k)fluoranthene Amount: 1.70 Area: 141998



MANUAL INTEGRATION for Benzo(k)fluoranthene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 08/10/10

Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

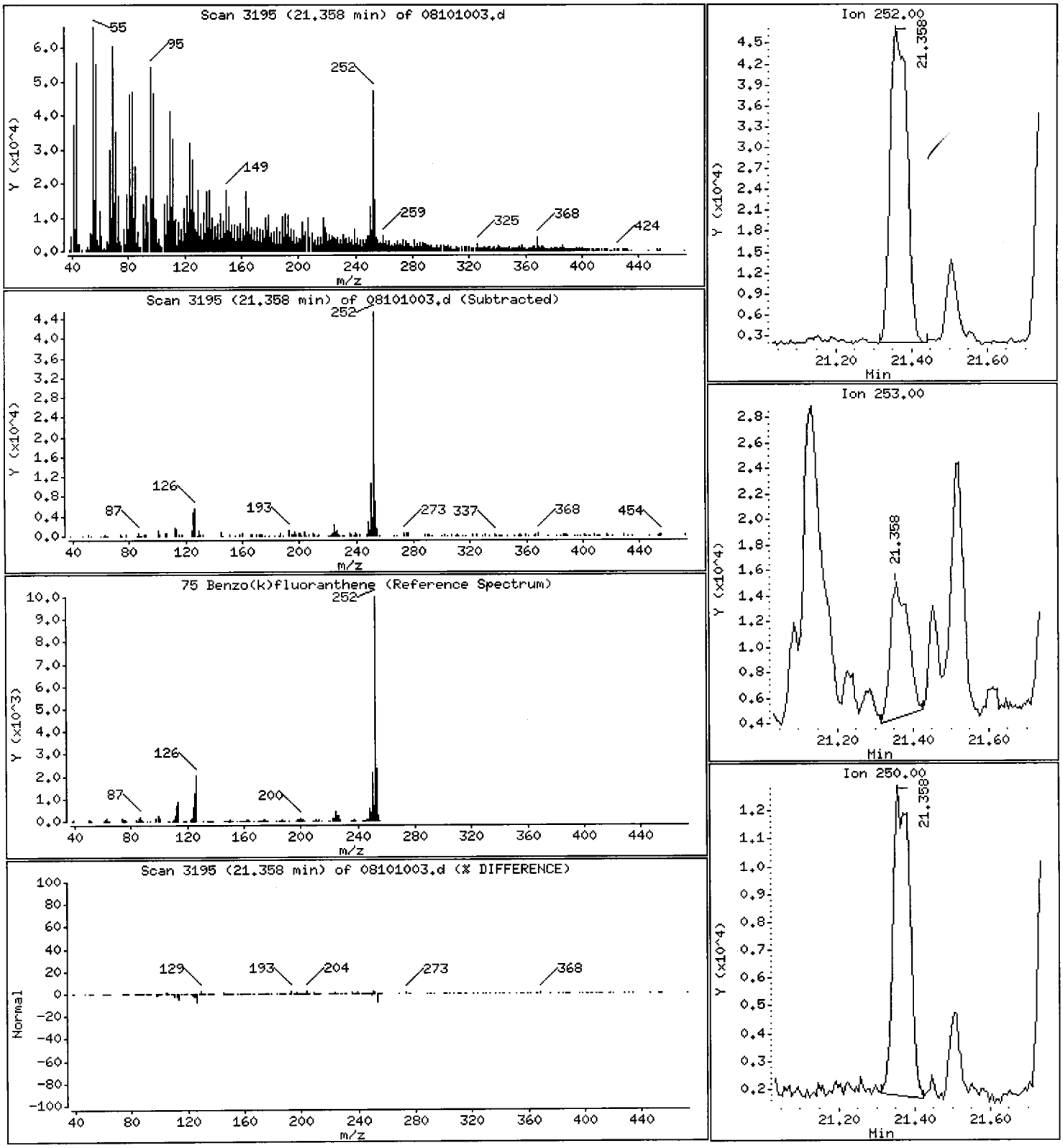
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 101.8 ug/kg



Data File: /chem3/nt4.i/20100810.b/08101003.d

Date : 10-AUG-2010 13:12

Client ID: BW-07-SC-COMP-10072

Instrument: nt4.i

Sample Info: RF71A,3,

Volume Injected (uL): 1.0

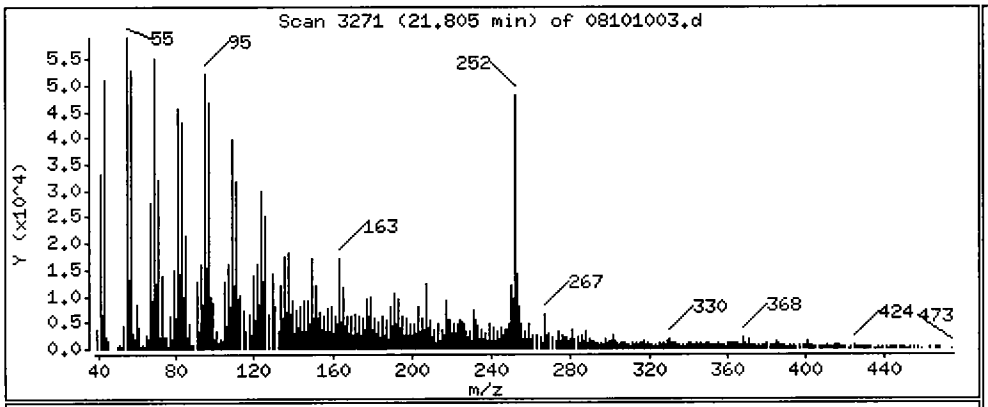
Operator: JZ

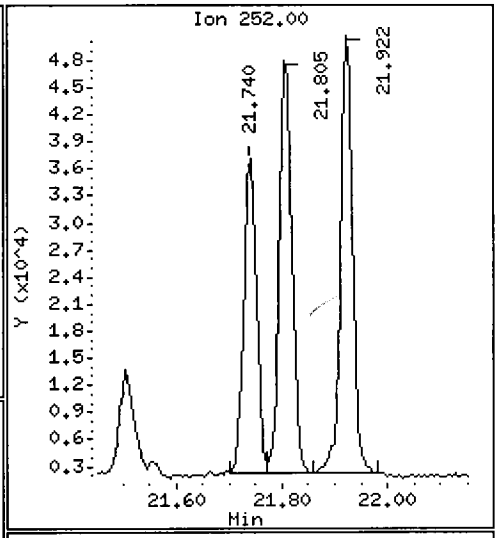
Column phase: ZB-5msi

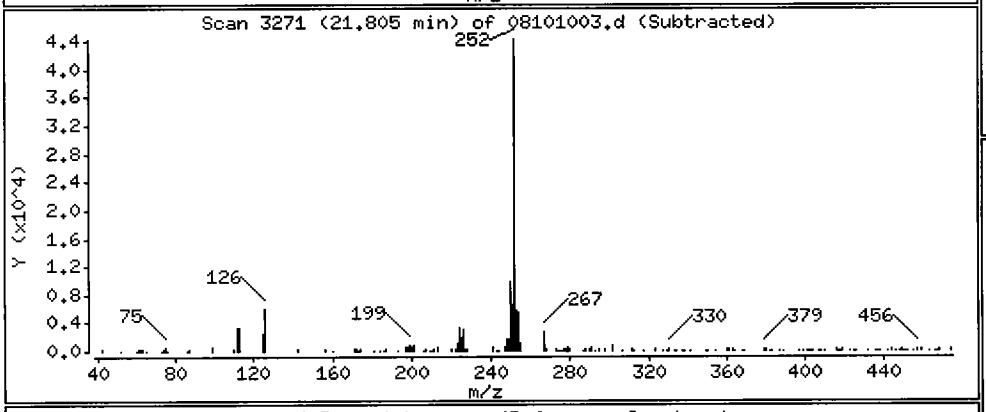
Column diameter: 0.32

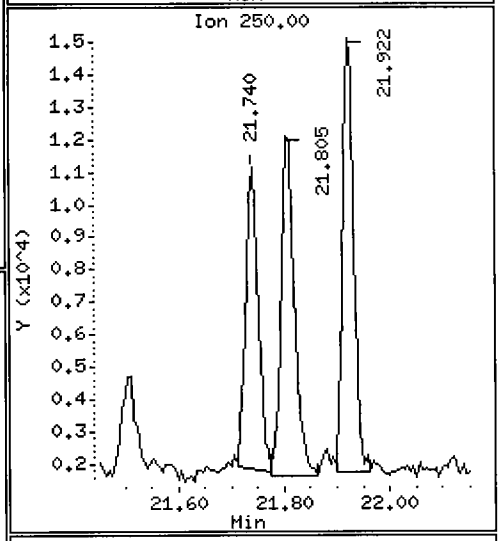
76 Benzo(a)pyrene

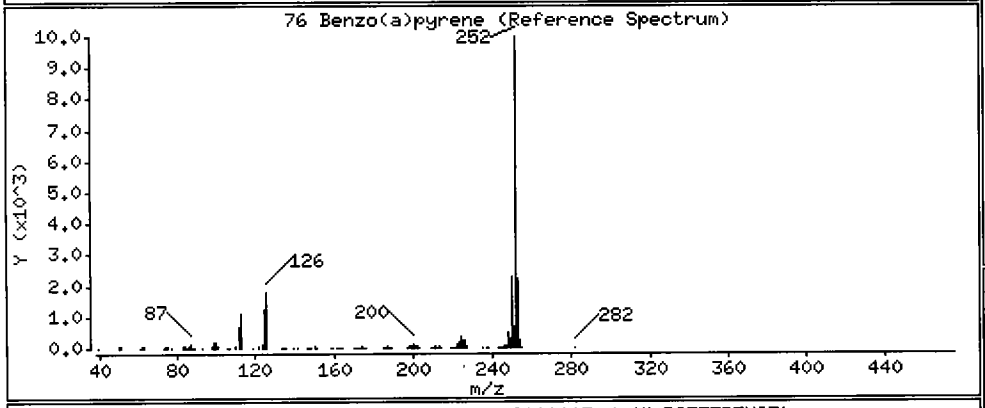
Concentration: 65.44 ug/kg

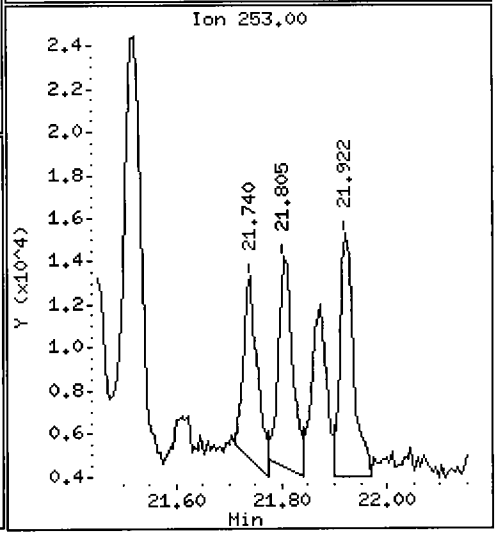


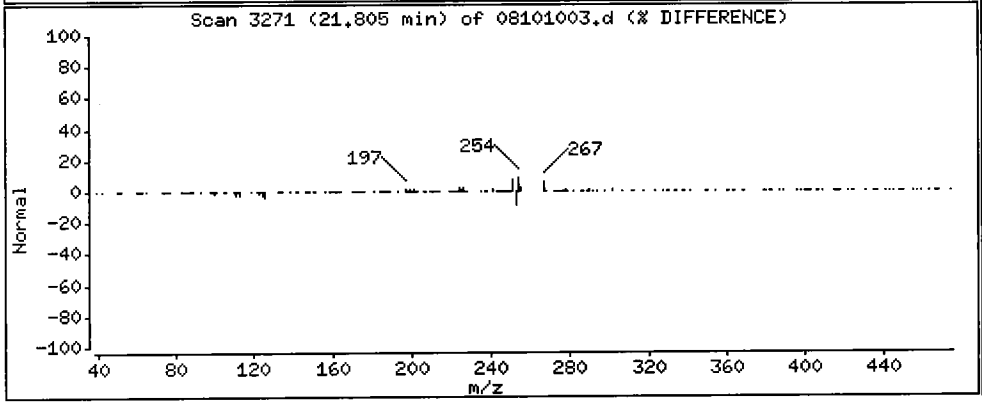












Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100810.b/08101002.d
Lab Smp Id: RF71MBS1 Client Smp ID: RF71MBS1
Inj Date : 10-AUG-2010 12:38
Operator : JZ Inst ID: nt4.i
Smp Info : RF71MBS1,
Misc Info : 10-17570
Comment : 1ul Injection
Method : /chem3/nt4.i/20100810.b/SW846100719.m
Meth Date : 10-Aug-2010 15:49 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SONICMBLCS.sub
Target Version: 3.50

AB 08/10/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	6.209	6.201	(0.763)	450232	25.4953	509.9
$	2 Phenol-d5	99	7.712	7.716	(0.948)	493041	28.3822	567.6
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	7.842	7.846	(0.964)	475348	25.5022	510.0
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.135	8.139	(1.000)	325905	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	8.429	8.433	(1.036)	215132	15.4724	309.4
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	9.052	9.062	(0.890)	290856	15.9481	319.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	10.168	10.172	(1.000)	1178349	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.954	11.958	(0.918)	704154	16.1671	323.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	13.023	13.027	(1.000)	711031	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	14.315	14.319	(1.099)	129251	25.4197	508.4
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.396	15.400	(1.000)	1168984	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	18.034	18.038	(0.915)	765019	19.6424	392.8
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	19.708	19.724	(1.000)	1005827	20.0000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134	Di-n-octylphthalate-d4	153	20.836	20.840	(1.000)	1516361	20.0000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	21.870	21.879	(1.000)	990527	20.0000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08101002.d
Lab Smp Id: RF71MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100810.b/SW846100719.m
Misc Info: 10-17570

Calibration Date: 10-AUG-2010
Calibration Time: 12:02
Client Smp ID: RF71MBS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	325905	-8.58
27 Naphthalene-d8	1293412	646706	2586824	1178349	-8.90
42 Acenaphthene-d10	785897	392948	1571794	711031	-9.53
59 Phenanthrene-d10	1313990	656995	2627980	1168984	-11.04
69 Chrysene-d12	1155293	577646	2310586	1005827	-12.94
134 Di-n-octylphthala	1825297	912648	3650594	1516361	-16.93
77 Perylene-d12	1146289	573144	2292578	990527	-13.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.14	-0.05
27 Naphthalene-d8	10.17	9.67	10.67	10.17	-0.04
42 Acenaphthene-d10	13.03	12.53	13.53	13.02	-0.03
59 Phenanthrene-d10	15.40	14.90	15.90	15.40	-0.03
69 Chrysene-d12	19.72	19.22	20.22	19.71	-0.08
134 Di-n-octylphthala	20.84	20.34	21.34	20.84	-0.02
77 Perylene-d12	21.88	21.38	22.38	21.87	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

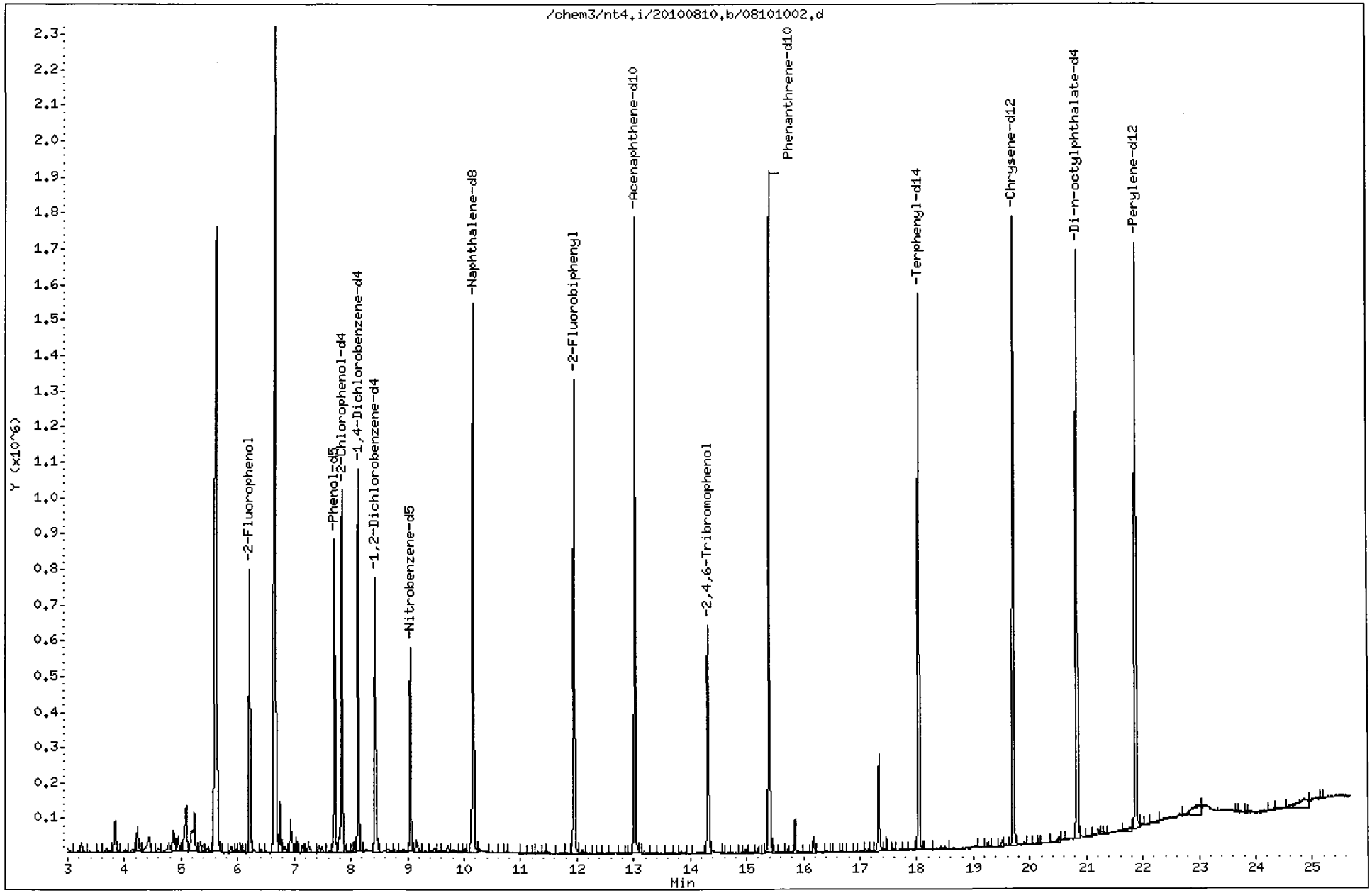
Client Name: Anchor QEA
Client SDG: RF71
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RF71MBS1
Client Smp ID: RF71MBS1
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: BLANK
SpikeList File: SONICLCS.spk
Quant Type: ISTD
Sublist File: SONICMBLCS.sub
Method File: /chem3/nt4.i/20100810.b/SW846100719.m
Misc Info: 10-17570

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	509.9	67.99	38-112
$ 2 Phenol-d5	750.0	567.6	75.69	44-110
$ 5 2-Chlorophenol-d4	750.0	510.0	68.01	50-103
$ 10 1,2-Dichlorobenzen	500.0	309.4	61.89	48-104
$ 18 Nitrobenzene-d5	500.0	319.0	63.79	46-102
$ 36 2-Fluorobiphenyl	500.0	323.3	64.67	51-105
$ 55 2,4,6-Tribromophen	750.0	508.4	67.79	54-120
$ 66 Terphenyl-d14	500.0	392.8	78.57	55-124

Data File: /chem3/nt4.i/20100810.b/08101002.d
Date : 10-AUG-2010 12:38
Client ID: RF71MBS1
Sample Info: RF71MBS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RF71:66375



SIM Semivolatile Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8270 SIM BAN PSDDA–Soil/(Sediment)
Sonication (3550B) (SOP # 3304S)

Preparation Test BAN # 7
ARI Job No(s) RF71

SIM BAN (6.7ppb)
Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (dry wt)	Sonic Horn ID	KD	Turbo Vap (1) 2 3	GPC Prep Filter (1:1)	(REQ) GPC (1:1) (1) or 2 (Y) N	Post GPC KD	Turbo Vap (1) 2 3	Final Effective Volume	Volume to Lab	Comments
	MBS RF71	Date 8/6/10	16g	4	↓	↓	↓	↓	↓	↓	1mL ↓	1mL ↓	(Use 5g Pre-Deactivated Sodium Sulfate for Blanks) ↓
	SBS	↓	↓	3							↓	↓	↓
	SBS Dup.	↓	↓	2							↓	↓	↓
1	A	check	27.18	1	↓	↓	↓	↓	↓	↓	↓	↓	
Analyst/Date	WC 8/6/10				RP 8/9/10 SP	8/9/10		WW 8/19/10	RP 8/10/10	TS 8-10-10			

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Diluted Surrogate	C	100µL	3/08/11	WC	TH
Diluted Full List Spike (Freezer)	24	250µL	1/13/11	WC	TH
Diluted Base Spike	23	250µL	3/08/11	WC	TH
~~Diluted~~ Acid Spike	~~14~~ 10	~~250µL~~ 25µL	1/28/11	WC	TH

Extraction Time: 13:45 | Balance ID: 24150193

SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into 600mL or 400mL beakers. 2. Use 5g Pre-Deactivated Sodium Sulfate for Blanks. 3. Add surr/spike. 4. Add 1:1 DCM/Acetone. 5. Dry using neutral sodium sulfate-25g Max at first-A small amt of Additional sulfate may be needed after 10 min. or before 2nd sonication? 6. Sonicate 2X with 1:1 DCM/Acetone + 1X DCM only. 7. Collect into 500mL flask + Lg funnel with a small amount pre-deactivated glasswool only (NO SODIUM SULFATE). 8. KD (Small Drying Column with pre-deactivated glasswool plug+neutral Sodium Sulfate) at 85-90°. (Blanks=only 5g Sodium Sulfate. 9. TurboVap. 10. GPC Required (1:1) 11. KD (after GPC=No drying column) at 80°. 12. TurboVap. 13. Vial in DCM.
A. Need Total Solids Y (N) B. Archive/Freeze Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RF71 Client ID: Anchor QEA

Parameter: SIM SVOA Client Project: Bay Wood

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	JW 7/28/11
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☒ Clay (Difficult to homogenize/Mixed with Kitchen Aid)= A	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☒ Other Notes/Comments= The In House level Acid Spike was	
used, due to the diluted spike being expired.	JF 8/6/11

Data File: /chem3/nt4.i/20100610.b/06101002.d
Report Date: 10-Jun-2010 13:45

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: GPC#1 SPK
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: LL.sub
Method File: /chem3/nt4.i/20100610.b/SW846100609.m
Misc Info: 10-

Client SDG: 20100610
Fraction: SV
Client Smp ID: GPC#1 SPK
Operator: JZ
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3	Phenol	25.00	20.21	80.84	50-100
4	Bis(2-Chloroethyl)	25.00	18.98	75.92	52-100
6	2-Chlorophenol	25.00	19.32	77.29	56-100
7	1,3-Dichlorobenzen	25.00	17.79	71.14	23-100
9	1,4-Dichlorobenzen	25.00	17.54	70.16	25-100
11	Benzyl alcohol	50.00	47.74	95.48	19-100
12	1,2-Dichlorobenzen	25.00	18.24	72.98	30-100
13	2-Methylphenol	25.00	16.70	66.81	52-100
14	2,2'-oxybis(1-Chlo	25.00	18.75	75.00	32-111
15	4-Methylphenol	50.00	36.29	72.59	53-102
16	N-Nitroso-di-n-pro	25.00	17.56	70.25	43-104
17	Hexachloroethane	25.00	18.52	74.09	12-100
19	Nitrobenzene	25.00	26.67	106.69	33-125
20	Isophorone	25.00	22.08	88.32	57-115
21	2-Nitrophenol	25.00	18.58	74.31	56-102
22	2,4-Dimethylphenol	25.00	19.02	76.06	29-100
23	Bis(2-Chloroethoxy	25.00	19.09	76.35	54-101
24	Benzoic acid	75.00	47.38	63.18	10-131
25	2,4-Dichlorophenol	25.00	19.34	77.35	56-104
26	1,2,4-Trichloroben	25.00	19.28	77.11	27-100
28	Naphthalene	25.00	20.10	80.42	45-100
29	4-Chloroaniline	60.00	62.67	104.46	10-139
30	Hexachlorobutadien	25.00	18.79	75.17	10-100
31	4-Chloro-3-methylp	25.00	20.23	80.93	53-109
32	2-Methylnaphthalen	25.00	20.33	81.33	46-100
33	Hexachlorocyclopen	75.00	54.76	73.01	10-100
34	2,4,6-Trichlorophe	25.00	19.18	76.72	58-108
35	2,4,5-Trichlorophe	25.00	19.23	76.91	58-107
37	2-Chloronaphthalen	25.00	18.80	75.21	56-104
38	2-Nitroaniline	25.00	22.77	91.07	50-107
39	Dimethylphthalate	25.00	20.20	80.79	58-107
40	Acenaphthylene	25.00	20.09	80.35	57-100
41	2,6-Dinitrotoluene	25.00	20.41	81.63	58-112

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
43	3-Nitroaniline	64.00	72.65	113.51	21-150
44	Acenaphthene	25.00	18.79	75.17	51-100
45	2,4-Dinitrophenol	75.00	56.02	74.70	12-169
46	Dibenzofuran	25.00	21.16	84.62	57-100
47	4-Nitrophenol	25.00	19.81	79.25	35-119
48	2,4-Dinitrotoluene	25.00	21.02	84.07	58-117
49	Fluorene	25.00	19.41	77.64	56-104
50	Diethylphthalate	25.00	19.80	79.20	52-111
51	4-Chlorophenyl-phe	25.00	18.72	74.88	55-104
52	4-Nitroaniline	25.00	21.05	84.20	49-112
53	4,6-Dinitro-2-meth	75.00	62.93	83.91	13-139
54	N-Nitrosodiphenyla	25.00	20.91	83.62	60-136
56	4-Bromophenyl-phen	25.00	19.70	78.80	50-103
57	Hexachlorobenzene	25.00	18.62	74.50	54-106
58	Pentachlorophenol	25.00	10.70	42.79*	46-114
60	Phenanthrene	25.00	20.70	82.82	56-102
61	Anthracene	25.00	20.67	82.67	56-101
62	Carbazole	25.00	20.91	83.64	60-108
63	Di-n-butylphthalat	25.00	17.32	69.27	56-112
64	Fluoranthene	25.00	21.42	85.69	57-110
65	Pyrene	25.00	21.05	84.18	48-119
67	Butylbenzylphthala	25.00	19.33	77.31	51-114
68	Benzo(a)anthracene	25.00	20.89	83.57	55-105
70	3,3'-Dichlorobenzi	64.00	67.11	104.85	10-128
71	Chrysene	25.00	21.42	85.67	55-104
72	bis(2-Ethylhexyl)p	25.00	6.986	27.94*	28-164
73	Di-n-octylphthalat	25.00	5.397	21.59*	57-107
74	Benzo(b)fluoranthe	25.00	22.00	87.99	53-112
75	Benzo(k)fluoranthe	25.00	25.99	103.96	50-116
76	Benzo(a)pyrene	25.00	19.10	76.39	45-103
78	Indeno(1,2,3-cd)py	25.00	22.59	90.37	35-118
79	Dibenzo(a,h)anthra	25.00	21.57	86.28	42-119
80	Benzo(g,h,i)peryle	25.00	22.45	89.79	39-123
91	Aniline	61.00	57.56	94.36	10-100
111	Azobenzene (1,2-DP	25.00	20.40	81.59	57-109
90	N-Nitrosodimethyla	25.00	17.50	70.01	49-100
105	1-methylnaphthalen	25.00	20.94	83.78	46-100

SURROGATE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	37.50	28.15	75.06	38-100
$ 2	Phenol-d5	37.50	32.10	85.60	41-100
$ 5	2-Chlorophenol-d4	37.50	29.67	79.12	44-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 10 1,2-Dichlorobenzen	25.00	19.36	77.45	32-100
$ 18 Nitrobenzene-d5	25.00	22.22	88.89	39-100
$ 36 2-Fluorobiphenyl	25.00	20.14	80.57	42-100
$ 55 2,4,6-Tribromophen	37.50	30.56	81.49	48-118
$ 66 Terphenyl-d14	25.00	22.12	88.47	28-121

SIM Semivolatile Raw Data
Initial Calibration

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM ABN curve Client ID: ARI

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): SIM ABN

Instrument: (NT-2) NT-4 NT-6 NT-8 NT11

Curve Date: 08/13/10 Analysis Start Date: 08/13/10

DFTPP Tune Meets Criteria?	(YES) / NO	Internal Standard Meets Criteria?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	(YES) / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	(YES) / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / (NO)	Q flag applied?	YES / NO
~~Surrogate Recovery in Control?~~	~~YES / NO~~	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	(YES) / NO	Manual Integrations for Samples?	Yes / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

6 points curve, PCP & Butylbenzylphthalate - quadratic, all others - averaged.

Additional Details on Reverse: Yes (No)

Analyst: YZ **Date:** 8/13/10

Reviewer: B **Date:** 8/16/10

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 08/13/10 Analysis: SIM ABN Analyst: YZ

GC Program: SIMWIND Column No: 195517 Column Type: ZB5 MSi

Instrument Tune (.U or .CT.): 072310 cl EM Voltage: 1800

Calibration File: DF0613 Curve Date: 08/13/10

IS/SS	Ical/Ccal		LCS/ICV
1754-1	1736-1	1588-3	1720-1
	1735-1		1721-2
	1738-1		1713-1
	1747-3		1751-3
	1753-5		

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt2.i/20100813.b

	Time	Filename	LabID	ClientId	DF											
1	1001	df0613a.d	DF0613A		1	NO ISTDS FOUND										
2	1017	ic0813a.d	IC0813A		1	8.63	138235	10.65	491469	13.54	210728	15.95	321320	20.31	322320	22.58	256414
3	1051	ic0813b.d	IC0813B		1	8.64	137771	10.65	595528	13.54	203820	15.95	325087	20.32	344386	22.60	274090
4	1124	ic0813c.d	IC0813C		1	8.63	125364	10.65	411615	13.53	190385	15.95	287857	20.31	279752	22.58	218511
5	1158	ic0813d.d	IC0813D		1	8.63	126846	10.65	506779	13.53	194327	15.95	303841	20.31	316515	22.58	253040
6	1232	ic0813e.d	IC0813E		1	8.63	125744	10.65	419260	13.53	191344	15.95	285157	20.31	289110	22.58	226843
7	1306	ic0813f.d	IC0813F		1	8.63	119630	10.65	422349	13.54	189084	15.95	280601	20.31	288267	22.58	224117
8	1340	icv0813.d	ICV0813		1	8.64	137258	10.65	486790	13.54	207839	15.95	316345	20.31	339305	22.58	265089
9	1414	rf71mb.d	RF71MBS1	RF71MBS1	1	8.63	125710	10.65	400999	13.53	190139	15.95	279324	20.31	268147	22.58	207397
10	1448	rf71sb.d	RF71LCSS1	RF71LCSS1	1	8.63	129044	10.65	404735	13.53	187493	15.95	280326	20.31	291387	22.58	230705
11	1522	rf71sbd.d	RF71LCSDS1	RF71LCSDS1	1	8.63	129935	10.65	404125	13.54	190648	15.95	287721	20.31	289771	22.58	226471
12	1556	rf71a.d	RF71A	BW-07-SC-COM	1	8.63	121912	10.65	394421	13.53	185630	15.95	290129	20.34	326628	22.63	206741

YZ 8/16/10

Maintenance / Comments new liner, clipped ~ 1 coop of the column

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): TC 0813A

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Batch File: /chem3/nt2.i/20100813.b
Inst ID: nt2.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	ic0813a	ic0813b	ic0813c	ic0813d	ic0813e	ic0813f
INJ.DATE:	13-AUG-2010	13-AUG-2010	13-AUG-2010	13-AUG-2010	13-AUG-2010	13-AUG-2010
INJ.TIME:	10:17	10:51	11:24	11:58	12:32	13:06

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.761	6.760	6.759	6.761	6.761	6.754	6.761	6.261-7.261	6.759	0.003
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	33.580	33.080-34.080	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	30.873	30.373-31.373	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	15.496	14.996-15.996	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	20.428	19.928-20.928	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	20.471	19.971-20.971	+++++	+++++
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++	7.612	7.112-8.112	+++++	+++++
* 134 Di-n-octylphthalate-d4	+++++	+++++	+++++	+++++	+++++	+++++	17.239	16.739-17.739	+++++	+++++
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	14.190	13.690-14.690	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	31.262	30.762-31.762	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	30.196	29.696-30.696	+++++	+++++
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	23.852	23.352-24.352	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	27.862	27.362-28.362	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	20.566	20.066-21.066	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	19.855	19.355-20.355	+++++	+++++

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Batch File: /chem3/nt2.i/20100813.b
Inst ID: nt2.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	16.517	16.017-17.017	+++++	+++++
	107 4,5-Dichloro-2-Methoxy	+++++	+++++	+++++	+++++	+++++	+++++	14.934	14.434-15.434	+++++	+++++
	106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	11.843	11.343-12.343	+++++	+++++
	105 1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	10.820	10.320-11.320	+++++	+++++
$	2 Phenol-d5	8.126	8.138	8.126	8.137	8.125	8.125	8.126	7.626-8.626	8.129	0.006
	3 Phenol	8.149	8.150	8.149	8.149	8.148	8.148	8.149	7.649-8.649	8.149	0.001
	4 Bis(2-Chloroethyl)ethe	+++++	+++++	+++++	+++++	+++++	+++++	8.202	7.702-8.702	+++++	+++++
$	5 2-Chlorophenol-d4	8.346	8.346	8.345	8.345	8.345	8.345	8.346	7.846-8.846	8.345	0.001
	6 2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	8.592	8.092-9.092	+++++	+++++
	7 1,3-Dichlorobenzene	8.582	8.583	8.582	8.582	8.581	8.582	8.582	8.082-9.082	8.582	0.001
*	8 1,4-Dichlorobenzene-d4	8.634	8.635	8.634	8.634	8.633	8.634	8.634	8.134-9.134	8.634	0.001
	9 1,4-Dichlorobenzene	8.652	8.670	8.651	8.669	8.651	8.651	8.652	8.152-9.152	8.657	0.009
$	10 1,2-Dichlorobenzene-d4	8.946	8.946	8.945	8.946	8.945	8.945	8.946	8.446-9.446	8.946	0.001
	11 Benzyl alcohol	8.859	8.877	8.859	8.877	8.858	8.859	8.859	8.359-9.359	8.865	0.009
	12 1,2-Dichlorobenzene	8.946	8.964	8.945	8.963	8.945	8.945	8.946	8.446-9.446	8.951	0.009
	13 2-Methylphenol	9.067	9.066	9.066	9.067	9.066	9.066	9.067	8.567-9.567	9.066	0.000
	14 2,2'-oxybis(1-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	9.004	8.504-9.504	+++++	+++++
	15 4-Methylphenol	9.282	9.296	9.282	9.282	9.282	9.282	9.282	8.782-9.782	9.284	0.006
	16 N-Nitroso-di-n-propyla	9.313	9.327	9.313	9.328	9.312	9.313	9.313	8.813-9.813	9.318	0.008
	17 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	9.217	8.717-9.717	+++++	+++++
$	18 Nitrobenzene-d5	9.544	9.543	9.528	9.544	9.543	9.543	9.544	9.044-10.044	9.541	0.006
	19 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	8.619	8.119-9.119	+++++	+++++
	20 Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	8.993	8.493-9.493	+++++	+++++
	21 2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	9.121	8.621-9.621	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Batch File: /chem3/nt2.i/20100813.b
Inst ID: nt2.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
22	2,4-Dimethylphenol	10.112	10.113	10.112	10.114	10.113	10.113	10.112	9.612-10.612	10.113	0.001
23	Bis(2-Chloroethoxy)met	+++++	+++++	+++++	+++++	+++++	+++++	9.367	8.867-9.867	+++++	+++++
24	Benzoic acid	+++++	+++++	+++++	+++++	+++++	+++++	10.316	9.816-10.816	+++++	+++++
25	2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	9.501	9.001-10.001	+++++	+++++
26	1,2,4-Trichlorobenzene	10.592	10.593	10.592	10.594	10.594	10.594	10.592	10.092-11.092	10.593	0.001
* 27	Naphthalene-d8	10.650	10.651	10.650	10.652	10.651	10.651	10.650	10.150-11.150	10.651	0.001
28	Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.214-10.214	+++++	+++++
29	4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	9.848	9.348-10.348	+++++	+++++
30	Hexachlorobutadiene	10.977	10.978	10.977	10.978	10.978	10.978	10.977	10.477-11.477	10.977	0.001
31	4-Chloro-3-methylpheno	+++++	+++++	+++++	+++++	+++++	+++++	10.644	10.144-11.144	+++++	+++++
32	2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	10.820	10.320-11.320	+++++	+++++
33	Hexachlorocyclopentadi	+++++	+++++	+++++	+++++	+++++	+++++	11.194	10.694-11.694	+++++	+++++
34	2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	11.328	10.828-11.828	+++++	+++++
35	2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	11.386	10.886-11.886	+++++	+++++
$ 36	2-Fluorobiphenyl	12.428	12.446	12.428	12.445	12.428	12.429	12.428	11.928-12.928	12.434	0.009
37	2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	11.600	11.100-12.100	+++++	+++++
38	2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	11.824	11.324-12.324	+++++	+++++
39	Dimethylphthalate	13.154	13.155	13.137	13.154	13.154	13.138	13.154	12.654-13.654	13.149	0.009
40	Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	12.273	11.773-12.773	+++++	+++++
41	2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	12.273	11.773-12.773	+++++	+++++
* 42	Acenaphthene-d10	13.535	13.536	13.535	13.535	13.535	13.536	13.535	13.035-14.035	13.535	0.000
43	3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	12.508	12.008-13.008	+++++	+++++
44	Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	12.578	12.078-13.078	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Batch File: /chem3/nt2.i/20100813.b
Inst ID: nt2.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	12.674	12.174-13.174	+++++	+++++
	46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	12.839	12.339-13.339	+++++	+++++
	47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	12.839	12.339-13.339	+++++	+++++
	48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	12.920	12.420-13.420	+++++	+++++
	49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	13.390	12.890-13.890	+++++	+++++
	50 Diethylphthalate	14.293	14.305	14.292	14.304	14.293	14.294	14.293	13.793-14.793	14.297	0.006
	51 4-Chlorophenyl-phenyle	+++++	+++++	+++++	+++++	+++++	+++++	14.323	13.823-14.823	+++++	+++++
	52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	13.513	13.013-14.013	+++++	+++++
	53 4,6-Dinitro-2-methylph	+++++	+++++	+++++	+++++	+++++	+++++	13.587	13.087-14.087	+++++	+++++
	54 N-Nitrosodiphenylamine	14.605	14.618	14.605	14.616	14.606	14.606	14.605	14.105-15.105	14.609	0.006
$	55 2,4,6-Tribromophenol	14.848	14.849	14.848	14.848	14.849	14.849	14.848	14.348-15.348	14.849	0.001
	56 4-Bromophenyl-phenylet	+++++	+++++	+++++	+++++	+++++	+++++	14.191	13.691-14.691	+++++	+++++
	57 Hexachlorobenzene	15.459	15.460	15.459	15.459	15.460	15.460	15.459	14.959-15.959	15.460	0.001
	58 Pentachlorophenol	15.752	15.752	15.736	15.751	15.737	15.737	15.752	15.252-16.252	15.744	0.008
*	59 Phenanthrene-d10	15.952	15.952	15.952	15.951	15.953	15.953	15.952	15.452-16.452	15.952	0.001
	60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	15.008	14.508-15.508	+++++	+++++
	61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	15.008	14.508-15.508	+++++	+++++
	62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	15.286	14.786-15.786	+++++	+++++
	63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	15.986	15.486-16.486	+++++	+++++
	64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	16.867	16.367-17.367	+++++	+++++
	65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	17.220	16.720-17.720	+++++	+++++
$	66 Terphenyl-d14	18.582	18.583	18.582	18.582	18.581	18.582	18.582	18.082-19.082	18.582	0.000
	67 Butylbenzylphthalate	19.427	19.427	19.415	19.426	19.414	19.415	19.427	18.927-19.927	19.421	0.007
	68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	19.250	18.750-19.750	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Batch File: /chem3/nt2.i/20100813.b
Inst ID: nt2.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	69 Chrysene-d12	20.306	20.321	20.306	20.306	20.305	20.306	20.306	19.806-20.806	20.308	0.006
	70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	20.137	19.637-20.637	+++++	+++++
	71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	20.254	19.754-20.754	+++++	+++++
	72 bis(2-Ethylhexyl)phtha	+++++	+++++	+++++	+++++	+++++	+++++	19.389	18.889-19.889	+++++	+++++
	73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	20.340	19.840-20.840	+++++	+++++
	74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	21.280	20.780-21.780	+++++	+++++
	75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	21.280	20.780-21.780	+++++	+++++
	76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	22.386	21.886-22.886	+++++	+++++
*	77 Perylene-d12	22.584	22.598	22.583	22.583	22.583	22.583	22.584	22.084-23.084	22.586	0.006
	78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	24.548	24.048-25.048	+++++	+++++
	79 Dibenzo(a,h)anthracene	24.723	24.737	24.707	24.722	24.707	24.707	24.723	24.223-25.223	24.717	0.012
	80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++	25.162	24.662-25.662	+++++	+++++
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	17.238	16.738-17.738	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	29.316	28.816-29.816	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	26.007	25.507-26.507	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	44.609	44.109-45.109	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	16.434	15.934-16.934	+++++	+++++
	90 N-Nitrosodimethylamine	4.709	4.716	4.715	4.709	4.701	4.702	4.709	4.209-5.209	4.709	0.006
	91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	7.898	7.398-8.398	+++++	+++++
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	21.833	21.333-22.333	+++++	+++++
	93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	14.896	14.396-15.396	+++++	+++++
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	17.686	17.186-18.186	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	14.819	14.319-15.319	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	26.950	26.450-27.450	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-AUG-2010 10:17
End Cal Date : 13-AUG-2010 13:06
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20100813.b/SIMABN.m
Cal Date : 13-Aug-2010 15:49 yev

	Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
108	4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
107	4,5-Dichloro-2-Methoxyphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
3	Phenol	1.84104	2.01928	1.85550	1.92142	2.05406	1.93614	AVRG		1.93791		4.41261
4	Bis(2-Chloroethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
6	2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
7	1,3-Dichlorobenzene	1.70543	1.74112	1.55150	1.55286	1.65846	1.49681	AVRG		1.61770		6.04369
9	1,4-Dichlorobenzene	1.65518	1.64051	1.49031	1.50518	1.63224	1.51098	AVRG		1.57240		4.93444
11	Benzyl alcohol	1.25353	1.42586	1.25528	1.17034	1.39759	1.13594	AVRG		1.27309		9.22101
12	1,2-Dichlorobenzene	1.51782	1.53649	1.39047	1.39986	1.51871	1.42522	AVRG		1.46476		4.54552
13	2-Methylphenol	1.52229	1.70524	1.57768	1.61052	1.69375	1.51904	AVRG		1.60475		5.05723
14	2,2'-oxybis(1-Chloropropane)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
15	4-Methylphenol	1.31984	1.35259	1.23812	1.30428	1.34086	1.29877	AVRG		1.30908		3.09052
16	N-Nitroso-di-n-propylamine	1.33627	1.42801	1.27269	1.32667	1.42360	1.30687	AVRG		1.34902		4.69606
17	Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
19	Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
20	Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
21	2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
22	2,4-Dimethylphenol	0.43196	0.48408	0.42204	0.43747	0.40607	0.31899	AVRG		0.41677		13.09529
23	Bis(2-Chloroethoxy)methane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
24	Benzoic acid	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-AUG-2010 10:17
End Cal Date : 13-AUG-2010 13:06
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20100813.b/SIMABN.m
Cal Date : 13-Aug-2010 15:49 yev

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
26 1,2,4-Trichlorobenzene	0.35718	0.34392	0.29893	0.30938	0.29931	0.25462	AVRG		0.31056		11.76881
28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
30 Hexachlorobutadiene	0.14115	0.14231	0.11800	0.12121	0.11720	0.09934	AVRG		0.12320		13.20646
31 4-Chloro-3-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
33 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
39 Dimethylphthalate	1.47039	1.56516	1.37623	1.46505	1.67931	1.55109	AVRG		1.51787		6.87873
40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-AUG-2010 10:17
End Cal Date : 13-AUG-2010 13:06
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20100813.b/SIMABN.m
Cal Date : 13-Aug-2010 15:49 yev

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
50 Diethylphthalate	1.40421	1.59121	1.46794	1.52800	1.68361	1.57515	AVRG		1.54169		6.37135
51 4-Chlorophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
53 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
54 N-Nitrosodiphenylamine	0.66269	0.74583	0.68531	0.65748	0.69124	0.62026	AVRG		0.67714		6.20080
56 4-Bromophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
57 Hexachlorobenzene	0.22365	0.21794	0.19924	0.20318	0.22035	0.21822	AVRG		0.21376		4.68527
58 Pentachlorophenol	3283	33452	68660	240230	544097	1096066	QUAD	0.000e+00	7.41759	-0.01556	0.99742
60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
67 Butylbenzylphthalate	5843	43981	87296	290727	626302	1264906	QUAD	0.000e+00	1.27316	0.02216	0.99867
68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
72 bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-AUG-2010 10:17
End Cal Date : 13-AUG-2010 13:06
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20100813.b/SIMABN.m
Cal Date : 13-Aug-2010 15:49 yev

	Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
76	Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
78	Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
79	Dibenzo(a,h)anthracene	0.74596	0.92346	0.92829	1.08305	1.24069	1.20430	AVRG		1.02096		18.55676
80	Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
90	N-Nitrosodimethylamine	1.41109	1.47875	1.34814	1.38856	1.46547	1.34596	AVRG		1.40633		4.03644
91	Aniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
92	1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
93	Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
96	p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
97	Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
98	Retene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
99	Perylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
100	3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
101	Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
102	beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
103	Pyridine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
$ 1	2-Fluorophenol	+++++	1.21860	1.10543	1.14628	1.25506	1.16990	AVRG		1.17905		5.00331
$ 145	d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
$ 2	Phenol-d5	+++++	1.49008	1.36837	1.43635	1.54733	1.42513	AVRG		1.45345		4.67739
$ 5	2-Chlorophenol-d4	+++++	1.09133	1.02922	1.07031	1.18406	1.08821	AVRG		1.09263		5.19719
$ 10	1,2-Dichlorobenzene-d4	+++++	0.78149	0.72186	0.71844	0.78028	0.74936	AVRG		0.75029		4.05190

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-AUG-2010 10:17
End Cal Date : 13-AUG-2010 13:06
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20100813.b/SIMABN.m
Cal Date : 13-Aug-2010 15:49 yev

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 18 Nitrobenzene-d5	+++++	0.38767	0.33706	0.34885	0.37304	0.31325	AVRG		0.35198		8.34390
$ 36 2-Fluorobiphenyl	+++++	1.34386	1.18243	1.22173	1.31782	1.29099	AVRG		1.27137		5.30152
$ 55 2,4,6-Tribromophenol	+++++	0.05193	0.04456	0.04911	0.06410	0.06770	AVRG		0.05548		17.93315
$ 66 Terphenyl-d14	+++++	0.57643	0.52876	0.54566	0.60098	0.55650	AVRG		0.56167		4.97977
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-AUG-2010 10:17
End Cal Date : 13-AUG-2010 13:06
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20100813.b/SIMABN.m
Cal Date : 13-Aug-2010 15:49 yev

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.

METHOD 8270D-SIM

YZ 8/13/10

Data file : /chem3/nt2.i/20100813.b/ic0813a.d
Lab Smp Id: IC0813A
Inj Date : 13-AUG-2010 10:17
Operator : yz Inst ID: nt2.i
Smp Info : IC0813A
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 15:52 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 10:17 Cal File: ic0813a.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.761	6.754	(0.783)	198070	2.50000	2.431
$	2 Phenol-d5	99	8.126	8.125	(0.941)	248193	2.50000	2.471
	3 Phenol	94	8.149	8.148	(0.944)	332009	2.50000	2.479
$	5 2-Chlorophenol-d4	132	8.346	8.345	(0.967)	184943	2.50000	2.449
	7 1,3-Dichlorobenzene	146	8.582	8.582	(0.994)	268325	2.50000	2.400
*	8 1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	138235	2.00000	
	9 1,4-Dichlorobenzene	146	8.652	8.651	(1.002)	260086	2.50000	2.393
$	10 1,2-Dichlorobenzene-d4	152	8.946	8.945	(1.036)	124142	2.50000	2.394
	11 Benzyl alcohol	79	8.859	8.859	(1.026)	1011133	12.5000	11.49
	12 1,2-Dichlorobenzene	146	8.946	8.945	(1.036)	241887	2.50000	2.389
	13 2-Methylphenol	108	9.067	9.066	(1.050)	278287	2.50000	2.509
	15 4-Methylphenol	108	9.282	9.282	(1.075)	225371	2.50000	2.491
	16 N-Nitroso-di-n-propylamine	70	9.313	9.313	(1.079)	229240	2.50000	2.459
$	18 Nitrobenzene-d5	82	9.544	9.543	(0.896)	214314	2.50000	2.478
	22 2,4-Dimethylphenol	107	10.112	10.113	(0.949)	268752	2.50000	2.624
	26 1,2,4-Trichlorobenzene	180	10.592	10.594	(0.995)	190066	2.50000	2.491
*	27 Naphthalene-d8	136	10.650	10.651	(1.000)	491469	2.00000	
	30 Hexachlorobutadiene	225	10.977	10.978	(1.031)	74463	2.50000	2.460
$	36 2-Fluorobiphenyl	172	12.428	12.429	(0.918)	321817	2.50000	2.402
	39 Dimethylphthalate	163	13.154	13.138	(0.972)	385909	2.50000	2.413
*	42 Acenaphthene-d10	162	13.535	13.536	(1.000)	210728	2.00000	
	50 Diethylphthalate	149	14.293	14.294	(1.056)	402491	2.50000	2.478
	54 N-Nitrosodiphenylamine	169	14.605	14.606	(0.916)	264076	2.50000	2.427
$	55 2,4,6-Tribromophenol	330	14.848	14.849	(0.931)	19724	2.50000	2.213
	57 Hexachlorobenzene	284	15.459	15.460	(0.969)	81607	2.50000	2.376
	58 Pentachlorophenol	266	15.752	15.737	(0.987)	240230	12.5000	11.07
*	59 Phenanthrene-d10	188	15.952	15.953	(1.000)	321320	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	66 Terphenyl-d14	244	18.582	18.582	(0.915)	219848	2.50000	2.429
	67 Butylbenzylphthalate	149	19.427	19.415	(0.957)	290727	2.50000	2.790
*	69 Chrysene-d12	240	20.306	20.306	(1.000)	322320	2.00000	
*	77 Perylene-d12	264	22.584	22.583	(1.000)	256414	2.00000	
	79 Dibenzo(a,h)anthracene	278	24.723	24.707	(1.095)	347138	2.50000	2.652
	90 N-Nitrosodimethylamine	74	4.709	4.702	(0.545)	239934	2.50000	2.468

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic0813a.d
Lab Smp Id: IC0813A
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	138235	0.00
27 Naphthalene-d8	491469	245734	982938	491469	0.00
42 Acenaphthene-d10	210728	105364	421456	210728	0.00
59 Phenanthrene-d10	321320	160660	642640	321320	0.00
69 Chrysene-d12	322320	161160	644640	322320	0.00
77 Perylene-d12	256414	128207	512828	256414	0.00

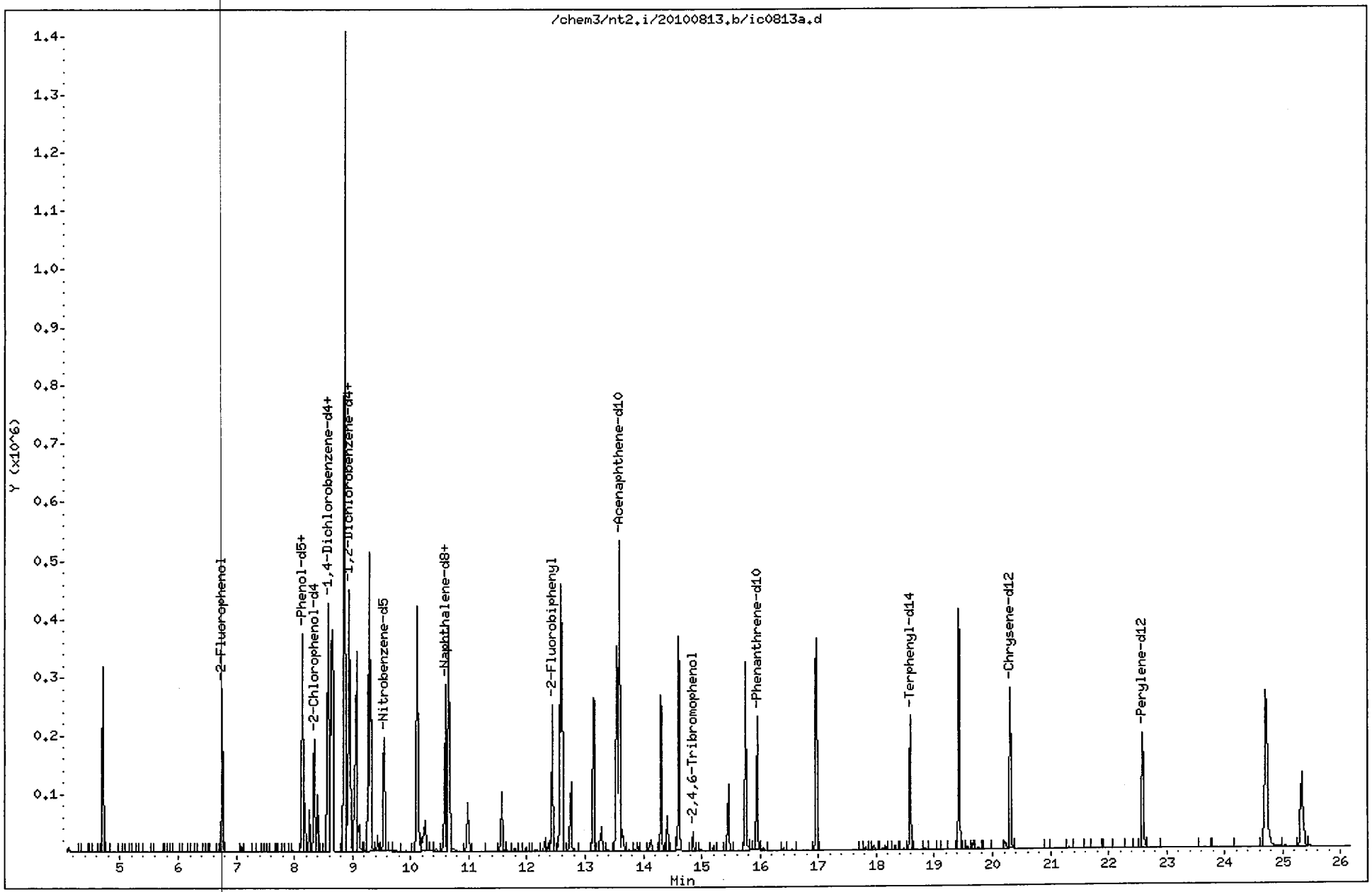
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.00
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.00
42 Acenaphthene-d10	13.54	13.04	14.04	13.54	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.00
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20100813.b/ic0813a.d
Date : 13-AUG-2010 10:17
Client ID:
Sample Info: IC0813A

Instrument: nt2.i
Operator: yz
Column diameter: 0.25

Column phase: ZB-5msi



Analytical Resources, Inc.

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/ic0813b.d YZ 8/13/10
Lab Smp Id: IC0813B
Inj Date : 13-AUG-2010 10:51
Operator : yz Inst ID: nt2.i
Smp Info : IC0813B
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 15:52 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 10:51 Cal File: ic0813b.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.760	6.754	(0.783)	805890	10.0000	9.922
$	2 Phenol-d5	99	8.138	8.125	(0.942)	981707	10.0000	9.805
	3 Phenol	94	8.150	8.148	(0.944)	1333720	10.0000	9.991
$	5 2-Chlorophenol-d4	132	8.346	8.345	(0.967)	749620	10.0000	9.960
	7 1,3-Dichlorobenzene	146	8.583	8.582	(0.994)	1031083	10.0000	9.253
*	8 1,4-Dichlorobenzene-d4	152	8.635	8.634	(1.000)	137771	2.00000	
	9 1,4-Dichlorobenzene	146	8.670	8.651	(1.004)	1040849	10.0000	9.609
$	10 1,2-Dichlorobenzene-d4	152	8.946	8.945	(1.036)	516202	10.0000	9.988
	11 Benzyl alcohol	79	8.877	8.859	(1.028)	3912501	50.0000	44.61
	12 1,2-Dichlorobenzene	146	8.964	8.945	(1.038)	981770	10.0000	9.730
	13 2-Methylphenol	108	9.066	9.066	(1.050)	1046399	10.0000	9.466
	15 4-Methylphenol	108	9.296	9.282	(1.077)	894666	10.0000	9.921
	16 N-Nitroso-di-n-propylamine	70	9.327	9.313	(1.080)	900247	10.0000	9.688
$	18 Nitrobenzene-d5	82	9.543	9.543	(0.896)	932738	10.0000	8.900
	22 2,4-Dimethylphenol	107	10.113	10.113	(0.949)	949834	10.0000	7.654(M)
	26 1,2,4-Trichlorobenzene	180	10.593	10.594	(0.995)	758155	10.0000	8.199
*	27 Naphthalene-d8	136	10.651	10.651	(1.000)	595528	2.00000	
	30 Hexachlorobutadiene	225	10.978	10.978	(1.031)	295796	10.0000	8.063
$	36 2-Fluorobiphenyl	172	12.446	12.429	(0.919)	1315650	10.0000	10.15
	39 Dimethylphthalate	163	13.155	13.138	(0.972)	1580719	10.0000	10.22
*	42 Acenaphthene-d10	162	13.536	13.536	(1.000)	203820	2.00000	
	50 Diethylphthalate	149	14.305	14.294	(1.057)	1605239	10.0000	10.22
	54 N-Nitrosodiphenylamine	169	14.618	14.606	(0.916)	1008199	10.0000	9.160
$	55 2,4,6-Tribromophenol	330	14.849	14.849	(0.931)	110037	10.0000	12.20
	57 Hexachlorobenzene	284	15.460	15.460	(0.969)	354703	10.0000	10.21
	58 Pentachlorophenol	266	15.752	15.737	(0.987)	1096066	50.0000	49.66
*	59 Phenanthrene-d10	188	15.952	15.953	(1.000)	325087	2.00000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 66 Terphenyl-d14	244	18.583	18.582	(0.914)	958247	10.0000	9.908
67 Butylbenzylphthalate	149	19.427	19.415	(0.956)	1264906	10.0000	11.36
* 69 Chrysene-d12	240	20.321	20.306	(1.000)	344386	2.00000	
* 77 Perylene-d12	264	22.598	22.583	(1.000)	274090	2.00000	
79 Dibenzo(a,h)anthracene	278	24.737	24.707	(1.095)	1650434	10.0000	11.80
90 N-Nitrosodimethylamine	74	4.716	4.702	(0.546)	927169	10.0000	9.571

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic0813b.d
Lab Smp Id: IC0813B
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	137771	-0.34
27 Naphthalene-d8	491469	245734	982938	595528	21.17
42 Acenaphthene-d10	210728	105364	421456	203820	-3.28
59 Phenanthrene-d10	321320	160660	642640	325087	1.17
69 Chrysene-d12	322320	161160	644640	344386	6.85
77 Perylene-d12	256414	128207	512828	274090	6.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.64	0.01
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.54	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.00
69 Chrysene-d12	20.31	19.81	20.81	20.32	0.07
77 Perylene-d12	22.58	22.08	23.08	22.60	0.06

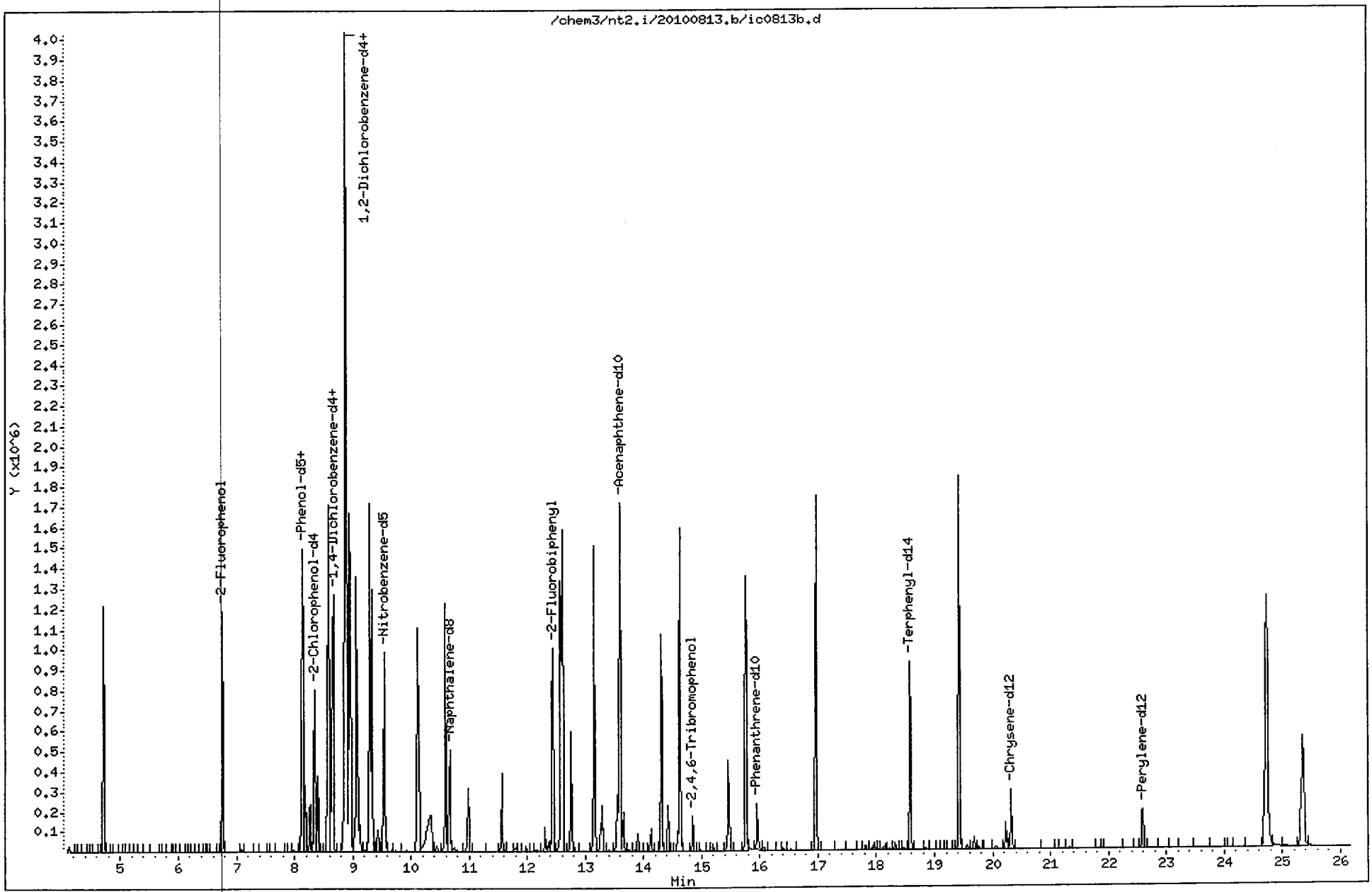
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20100813.b/ic0813b.d
Date : 13-AUG-2010 10:51
Client ID:
Sample Info: IC0813B

Instrument: nt2.i

Operator: yz
Column diameter: 0.25

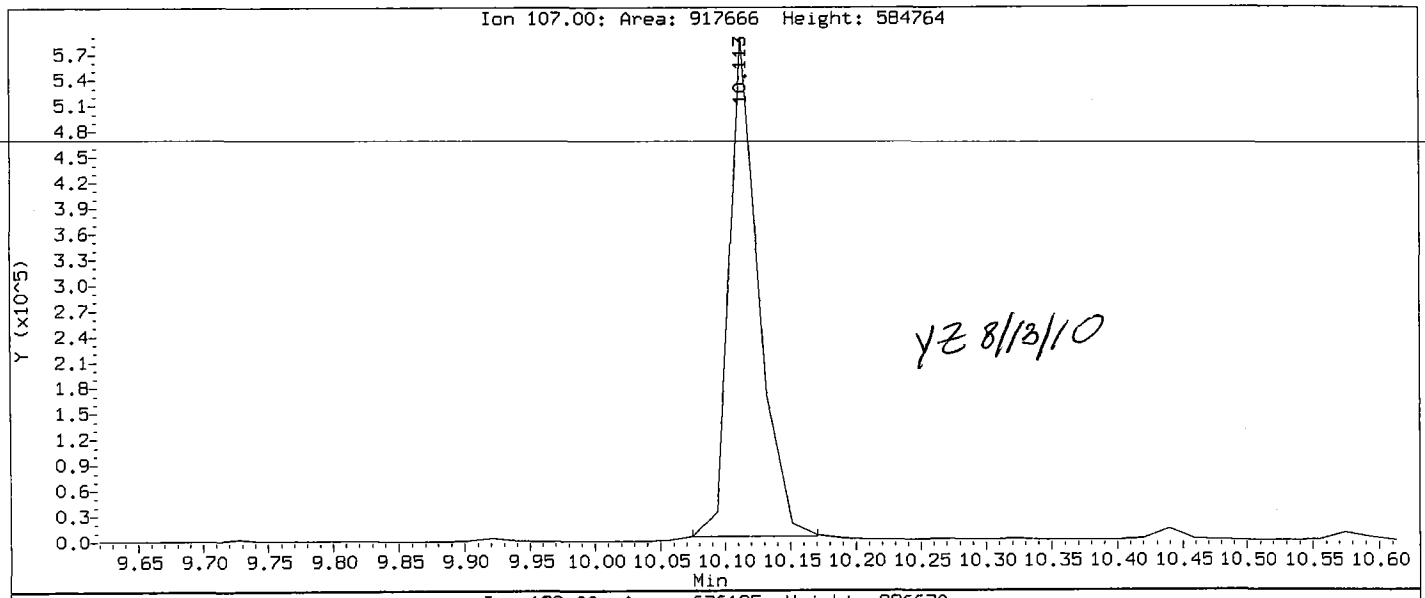
Column phase: ZB-5msi

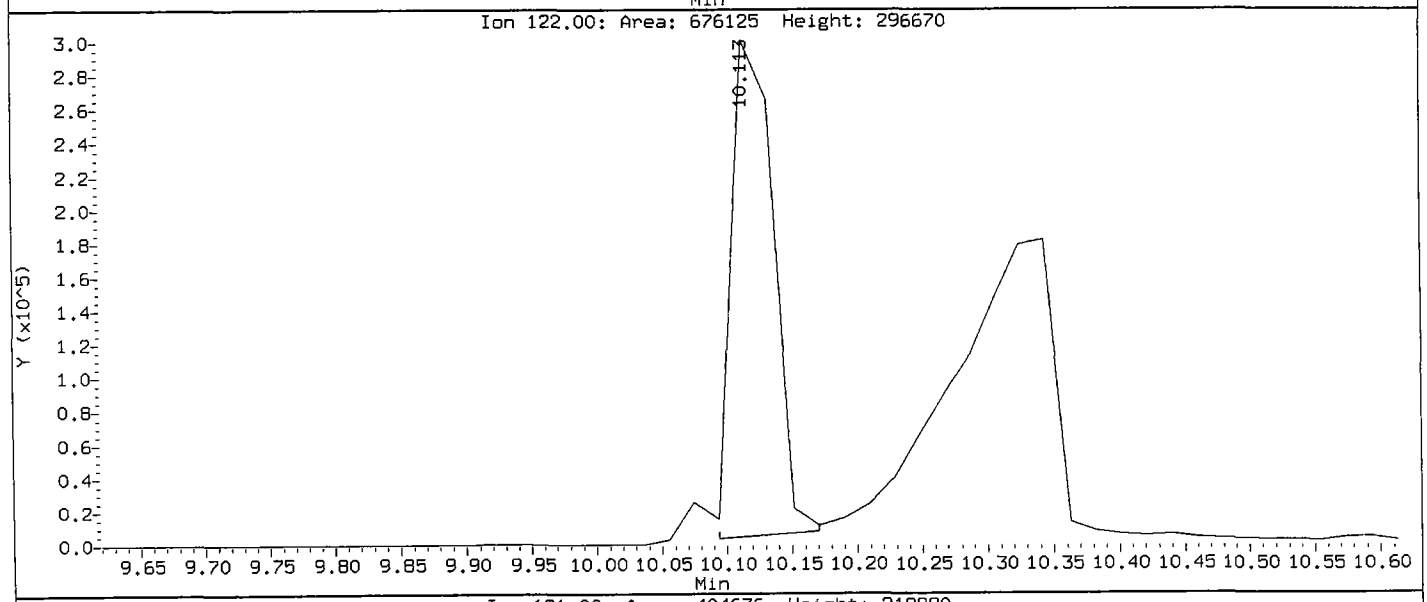


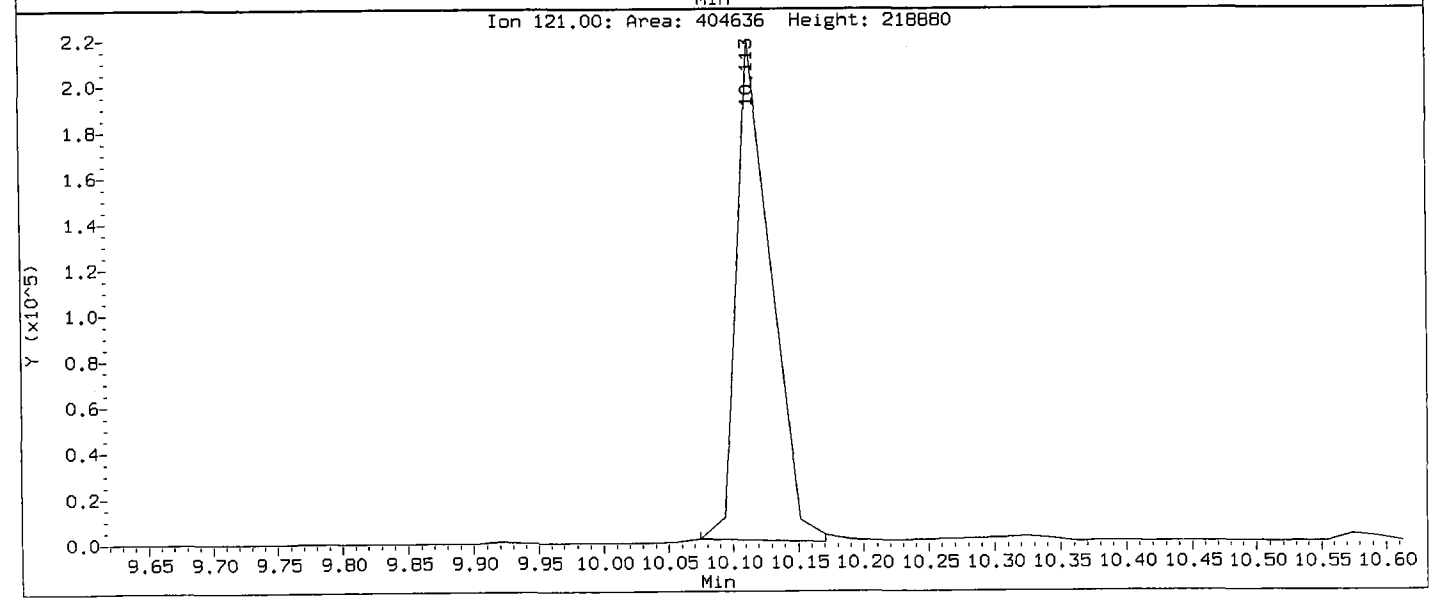
RT71-00103

Data File: /chem3/nt2.i/20100813.b/ic0813b.d
Injection Date: 13-AUG-2010 10:51
Instrument: nt2.i
Client Sample ID:

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



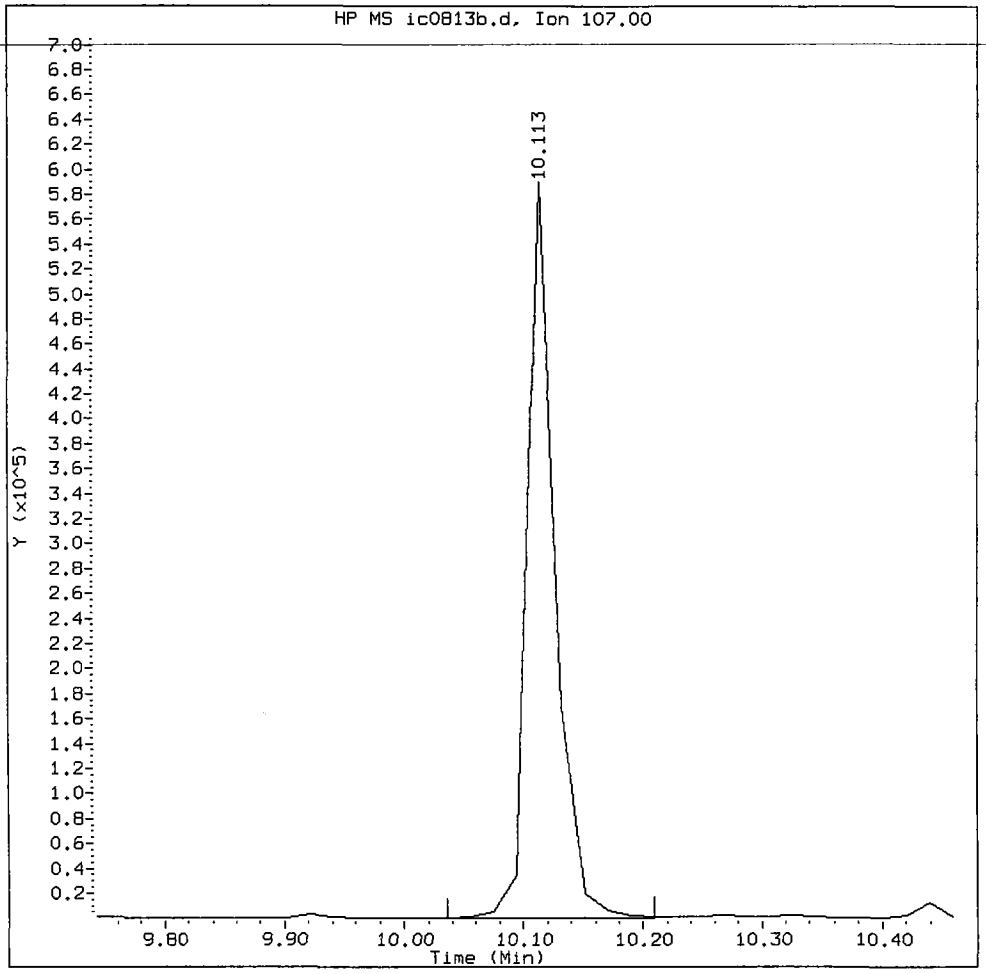




RF71 : 00404

IC0813B, /chem3/nt2.i/20100813.b/ic0813b.d

2,4-Dimethylphenol Amount: 7.65 Area: 949834



MANUAL INTEGRATION for 2,4-Dimethylphenol

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: YZ Date: 8/13/10

Analytical Resources, Inc.

YZ 8/13/10

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/ic0813c.d
Lab Smp Id: IC0813C
Inj Date : 13-AUG-2010 11:24
Operator : yz Inst ID: nt2.i
Smp Info : IC0813C
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 15:52 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 11:24 Cal File: ic0813c.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.759	6.754	(0.783)	7280	0.10000	0.09850
$	2 Phenol-d5	99	8.126	8.125	(0.941)	8612	0.10000	0.09453
	3 Phenol	94	8.149	8.148	(0.944)	11540	0.10000	0.09500
$	5 2-Chlorophenol-d4	132	8.345	8.345	(0.967)	6588	0.10000	0.09619
	7 1,3-Dichlorobenzene	146	8.582	8.582	(0.994)	10690	0.10000	0.1054
*	8 1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	125364	2.00000	
	9 1,4-Dichlorobenzene	146	8.651	8.651	(1.002)	10375	0.10000	0.1053
$	10 1,2-Dichlorobenzene-d4	152	8.945	8.945	(1.036)	4836	0.10000	0.1028
	11 Benzyl alcohol	79	8.859	8.859	(1.026)	39287	0.50000	0.4923
	12 1,2-Dichlorobenzene	146	8.945	8.945	(1.036)	9514	0.10000	0.1036
	13 2-Methylphenol	108	9.066	9.066	(1.050)	9542	0.10000	0.09486
	15 4-Methylphenol	108	9.282	9.282	(1.075)	8273	0.10000	0.1008
	16 N-Nitroso-di-n-propylamine	70	9.313	9.313	(1.079)	8376	0.10000	0.09905
$	18 Nitrobenzene-d5	82	9.528	9.543	(0.895)	7445	0.10000	0.1028
	22 2,4-Dimethylphenol	107	10.112	10.113	(0.949)	8890	0.10000	0.1036
	26 1,2,4-Trichlorobenzene	180	10.592	10.594	(0.995)	7351	0.10000	0.1150
*	27 Naphthalene-d8	136	10.650	10.651	(1.000)	411615	2.00000	
	30 Hexachlorobutadiene	225	10.977	10.978	(1.031)	2905	0.10000	0.1146
$	36 2-Fluorobiphenyl	172	12.428	12.429	(0.918)	12485	0.10000	0.1032
	39 Dimethylphthalate	163	13.137	13.138	(0.971)	13997	0.10000	0.09687
*	42 Acenaphthene-d10	162	13.535	13.536	(1.000)	190385	2.00000	
	50 Diethylphthalate	149	14.292	14.294	(1.056)	13367	0.10000	0.09108
	54 N-Nitrosodiphenylamine	169	14.605	14.606	(0.916)	9538	0.10000	0.09787
$	55 2,4,6-Tribromophenol	330	14.848	14.849	(0.931)	499	0.10000	0.06249 (M)
	57 Hexachlorobenzene	284	15.459	15.460	(0.969)	3219	0.10000	0.1046
	58 Pentachlorophenol	266	15.736	15.737	(0.986)	3283	0.50000	0.1692
*	59 Phenanthrene-d10	188	15.952	15.953	(1.000)	287857	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	66 Terphenyl-d14	244	18.582	18.582	(0.915)	7477	0.10000	0.09517
	67 Butylbenzylphthalate	149	19.415	19.415	(0.956)	5843	0.10000	0.06460(M)
*	69 Chrysene-d12	240	20.306	20.306	(1.000)	279752	2.00000	
*	77 Perylene-d12	264	22.583	22.583	(1.000)	218511	2.00000	
	79 Dibenzo(a,h)anthracene	278	24.707	24.707	(1.094)	8150	0.10000	0.07306
	90 N-Nitrosodimethylamine	74	4.715	4.702	(0.546)	8845	0.10000	0.1003

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic0813c.d
Lab Smp Id: IC0813C
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	125364	-9.31
27 Naphthalene-d8	491469	245734	982938	411615	-16.25
42 Acenaphthene-d10	210728	105364	421456	190385	-9.65
59 Phenanthrene-d10	321320	160660	642640	287857	-10.41
69 Chrysene-d12	322320	161160	644640	279752	-13.21
77 Perylene-d12	256414	128207	512828	218511	-14.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.00
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.00
42 Acenaphthene-d10	13.54	13.04	14.04	13.53	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.00
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

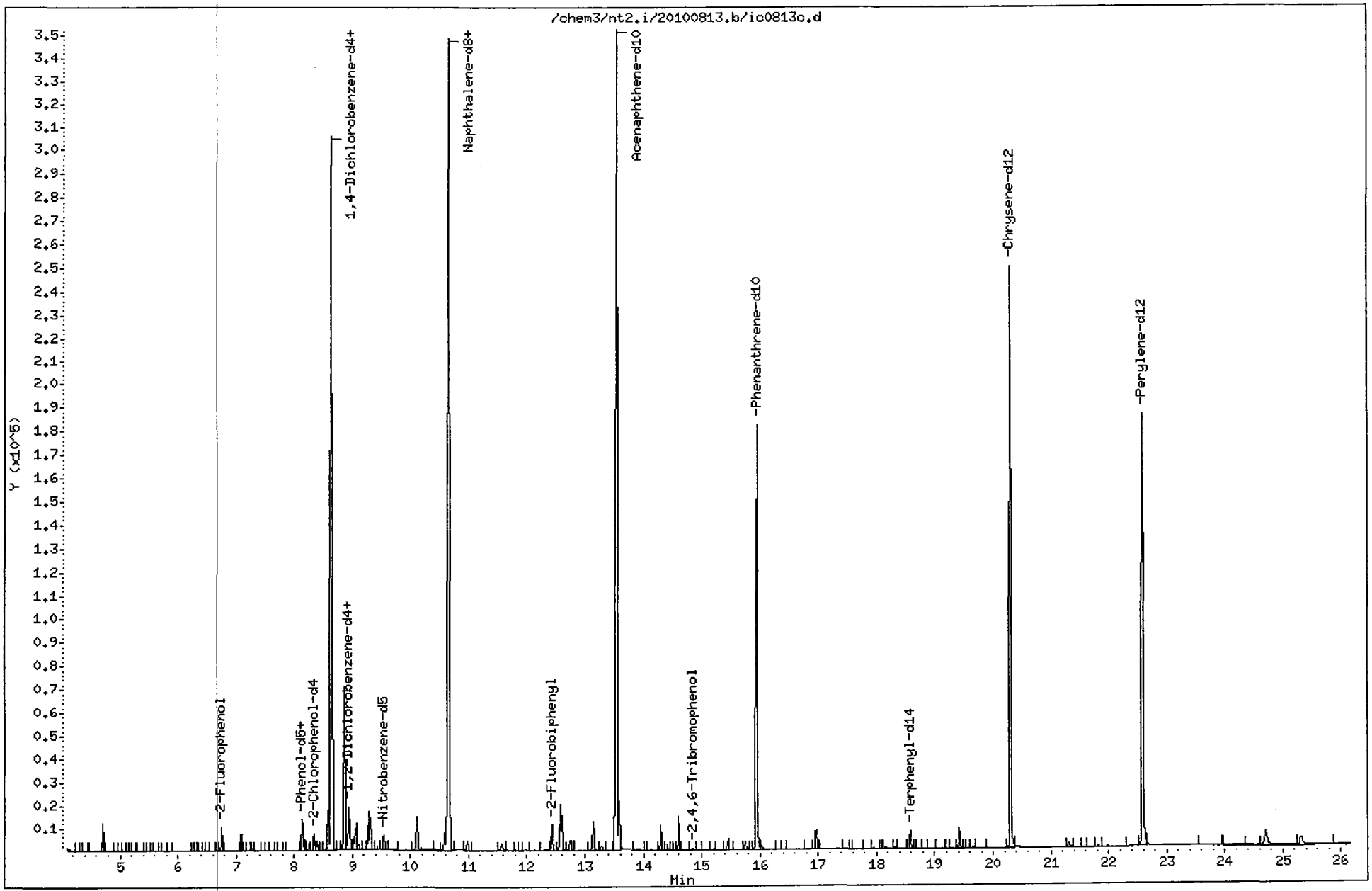
Data File: /chem3/nt2.i/20100813.b/ic0813c.d
Date : 13-AUG-2010 11:24
Client ID:
Sample Info: IC0813C

Instrument: nt2.i

Operator: yz
Column diameter: 0.25

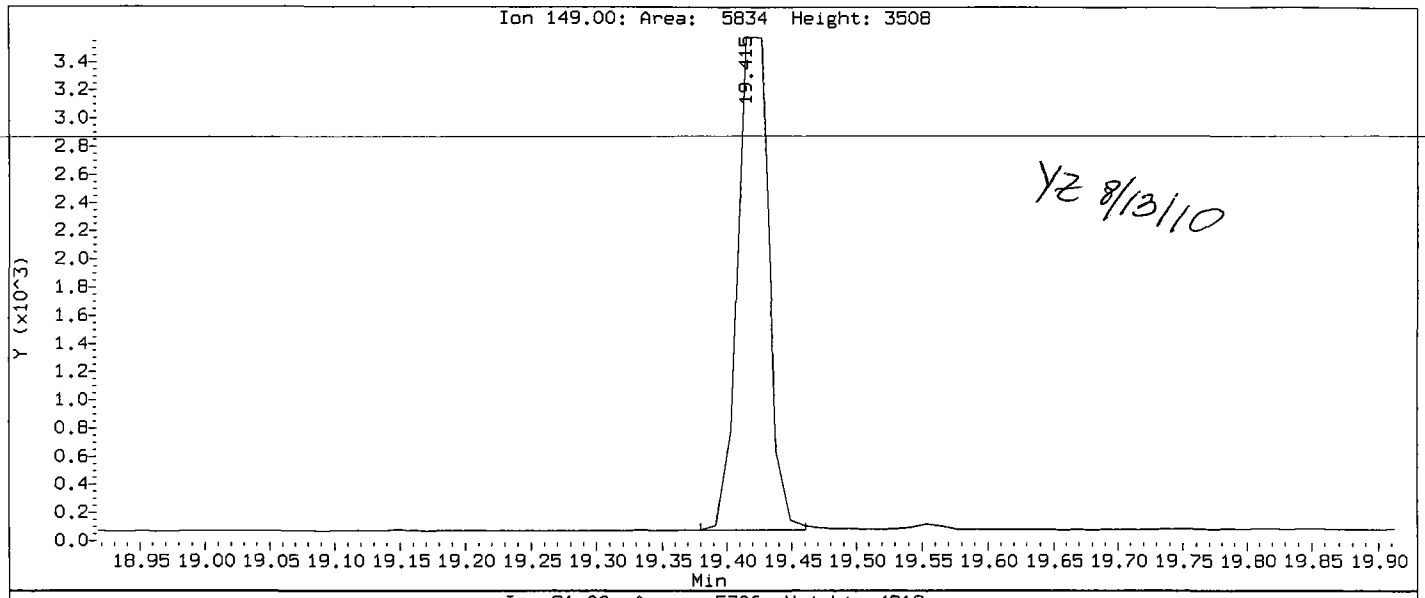
Column phase: ZB-5msi

RF71:69169

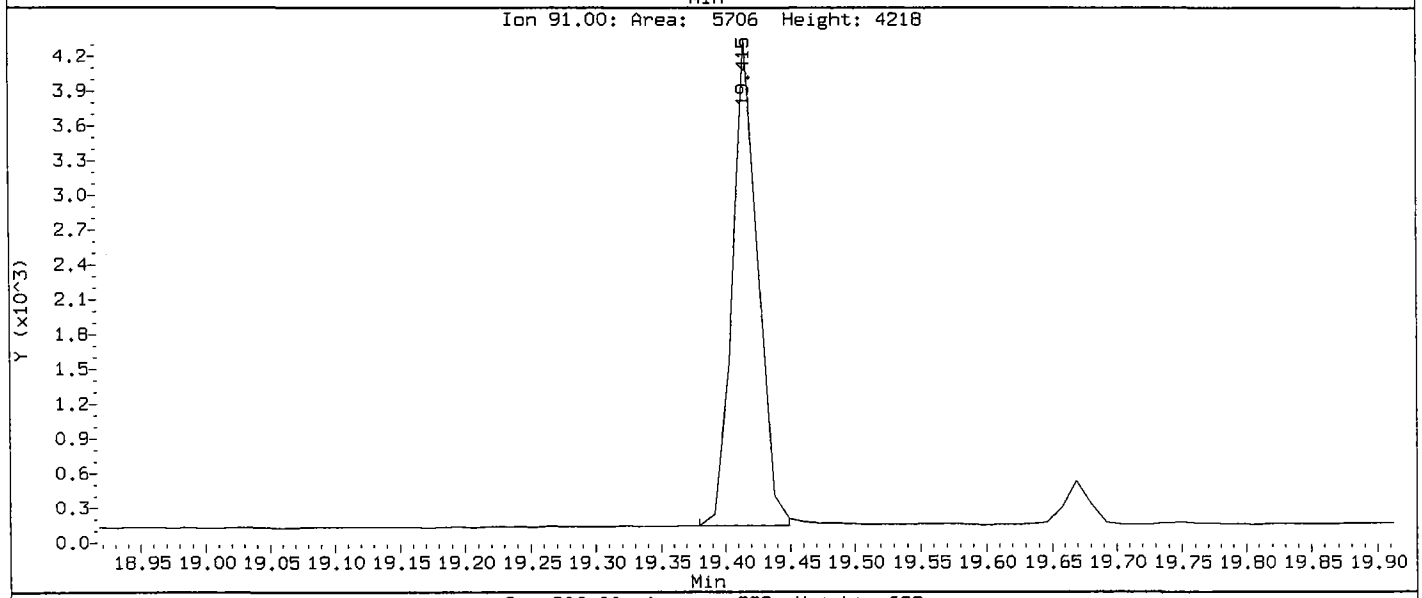


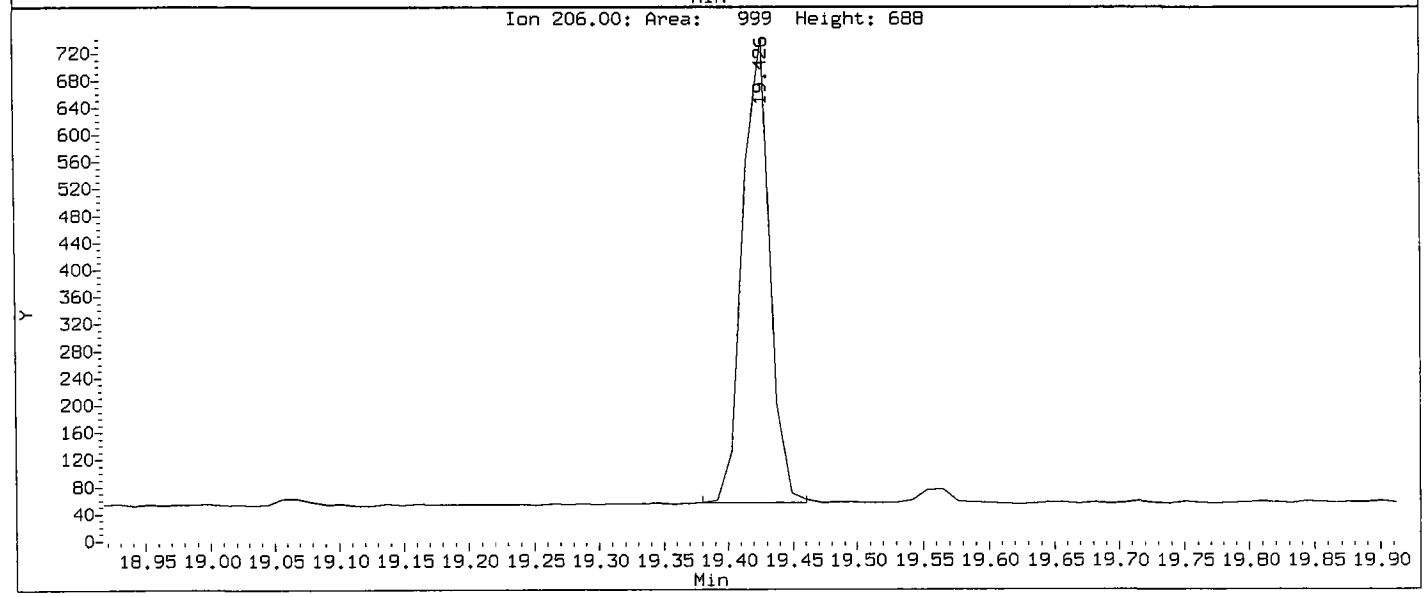
Data File: /chem3/nt2.i/20100813.b/ic0813c.d
Injection Date: 13-AUG-2010 11:24
Instrument: nt2.i
Client Sample ID:

Compound: Butylbenzylphthalate
CAS Number: 85-68-7



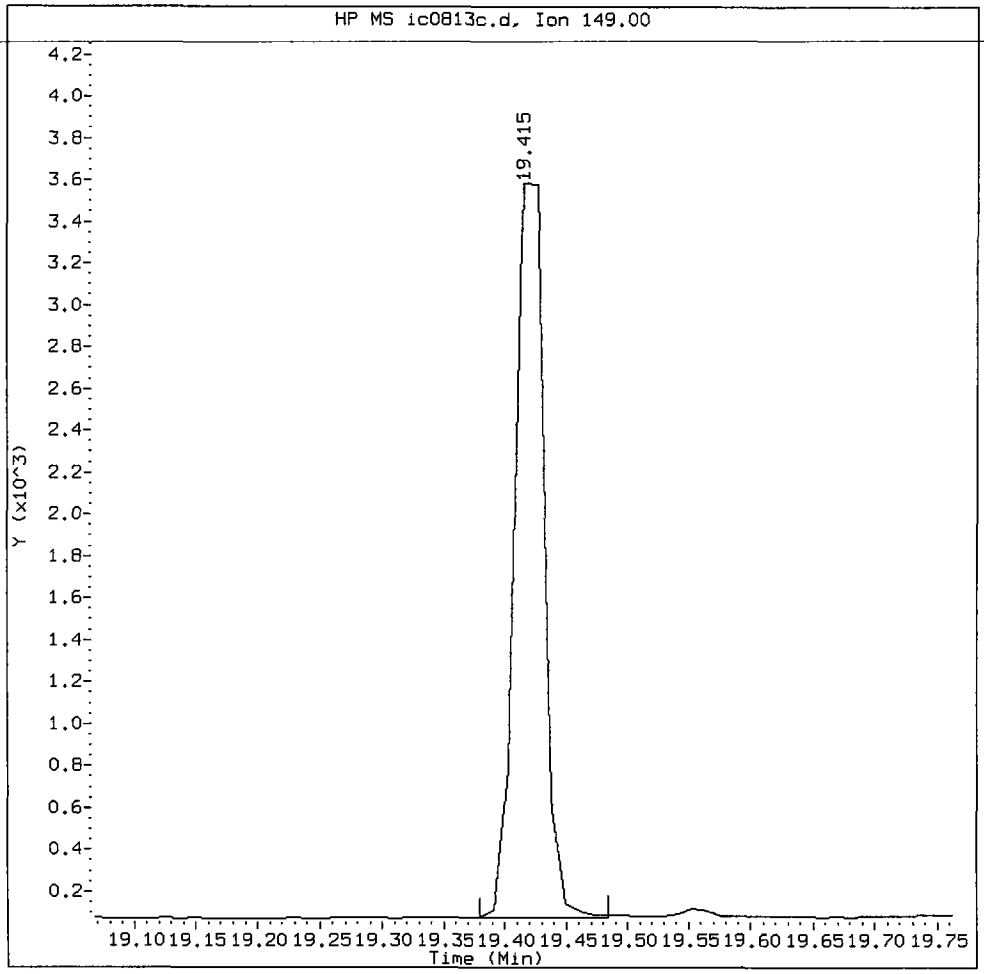
YZ 8/13/10





IC0813C, /chem3/nt2.i/20100813.b/ic0813c.d

Butylbenzylphthalate Amount: 0.06 Area: 5843



MANUAL INTEGRATION for Butylbenzylphthalate

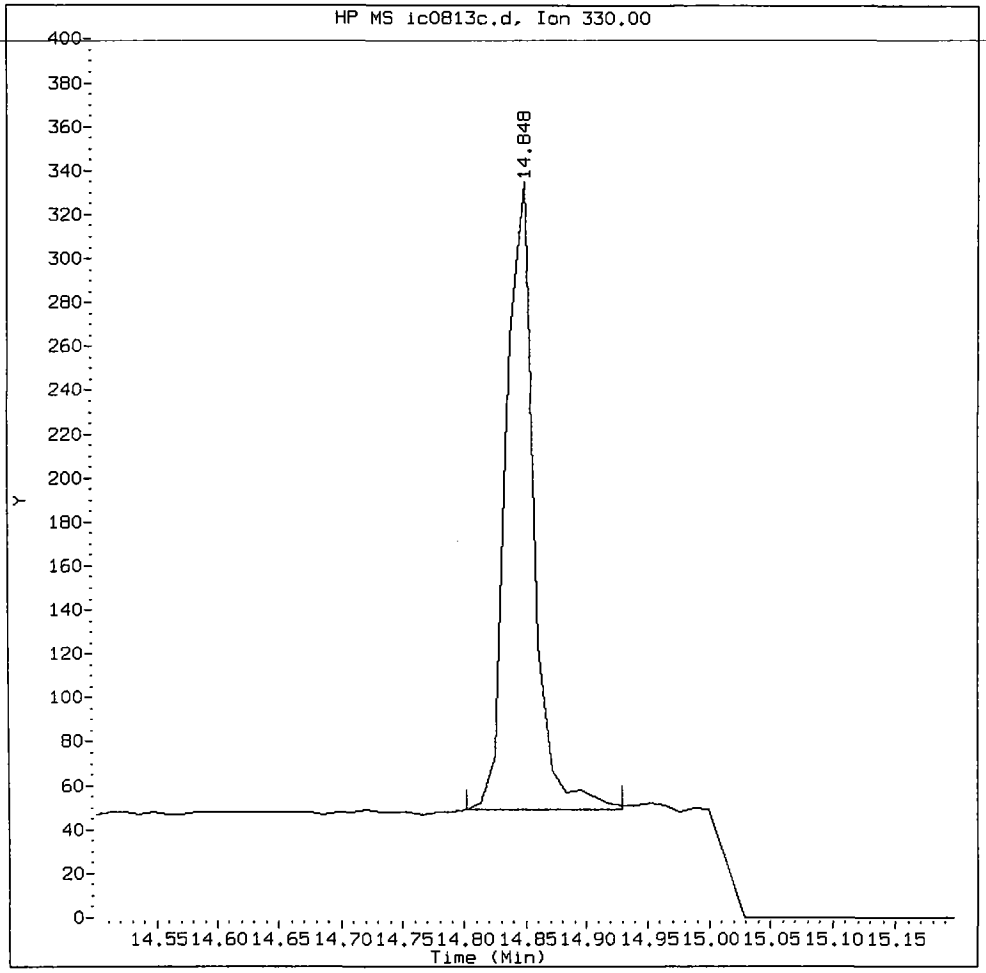
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: YZ Date: 8/13/10

IC0813C, /chem3/nt2.i/20100813.b/ic0813c.d

2,4,6-Tribromophenol Amount: 0.06 Area: 499



MANUAL INTEGRATION for 2,4,6-Tribromophenol

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: YZ Date: 8/13/10

Analytical Resources, Inc.

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/ic0813d.d
Lab Smp Id: IC0813D
Inj Date : 13-AUG-2010 11:58
Operator : yz Inst ID: nt2.i
Smp Info : IC0813D
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 15:52 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 11:58 Cal File: ic0813d.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.761	6.754	(0.783)	397998	5.00000	5.322
$	2 Phenol-d5	99	8.137	8.125	(0.942)	490680	5.00000	5.323
	3 Phenol	94	8.149	8.148	(0.944)	651374	5.00000	5.300
$	5 2-Chlorophenol-d4	132	8.345	8.345	(0.967)	375482	5.00000	5.418
	7 1,3-Dichlorobenzene	146	8.582	8.582	(0.994)	525922	5.00000	5.126
*	8 1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	126846	2.00000	
	9 1,4-Dichlorobenzene	146	8.669	8.651	(1.004)	517607	5.00000	5.190
$	10 1,2-Dichlorobenzene-d4	152	8.946	8.945	(1.036)	247440	5.00000	5.200
	11 Benzyl alcohol	79	8.877	8.859	(1.028)	2215977	25.0000	27.44
	12 1,2-Dichlorobenzene	146	8.963	8.945	(1.038)	481606	5.00000	5.184
	13 2-Methylphenol	108	9.067	9.066	(1.050)	537113	5.00000	5.277
	15 4-Methylphenol	108	9.282	9.282	(1.075)	425208	5.00000	5.121
	16 N-Nitroso-di-n-propylamine	70	9.328	9.313	(1.080)	451445	5.00000	5.276
$	18 Nitrobenzene-d5	82	9.544	9.543	(0.896)	472621	5.00000	5.299
	22 2,4-Dimethylphenol	107	10.114	10.113	(0.949)	514472	5.00000	4.872
	26 1,2,4-Trichlorobenzene	180	10.594	10.594	(0.995)	379214	5.00000	4.819
*	27 Naphthalene-d8	136	10.652	10.651	(1.000)	506779	2.00000	
	30 Hexachlorobutadiene	225	10.978	10.978	(1.031)	148489	5.00000	4.757
$	36 2-Fluorobiphenyl	172	12.445	12.429	(0.919)	640218	5.00000	5.183
	39 Dimethylphthalate	163	13.154	13.138	(0.972)	815838	5.00000	5.532
*	42 Acenaphthene-d10	162	13.535	13.536	(1.000)	194327	2.00000	
	50 Diethylphthalate	149	14.304	14.294	(1.057)	817929	5.00000	5.460
	54 N-Nitrosodiphenylamine	169	14.616	14.606	(0.916)	525069	5.00000	5.104
$	55 2,4,6-Tribromophenol	330	14.848	14.849	(0.931)	48688	5.00000	5.777
	57 Hexachlorobenzene	284	15.459	15.460	(0.969)	167377	5.00000	5.154
	58 Pentachlorophenol	266	15.751	15.737	(0.987)	544097	25.0000	26.47
*	59 Phenanthrene-d10	188	15.951	15.953	(1.000)	303841	2.00000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 66 Terphenyl-d14	244	18.582	18.582	(0.915)	475548	5.00000	5.350
67 Butylbenzylphthalate	149	19.426	19.415	(0.957)	626302	5.00000	6.121
* 69 Chrysene-d12	240	20.306	20.306	(1.000)	316515	2.00000	
* 77 Perylene-d12	264	22.583	22.583	(1.000)	253040	2.00000	
79 Dibenzo(a,h)anthracene	278	24.722	24.707	(1.095)	784858	5.00000	6.076
90 N-Nitrosodimethylamine	74	4.709	4.702	(0.545)	464722	5.00000	5.210

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic0813d.d
Lab Smp Id: IC0813D
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	126846	-8.24
27 Naphthalene-d8	491469	245734	982938	506779	3.12
42 Acenaphthene-d10	210728	105364	421456	194327	-7.78
59 Phenanthrene-d10	321320	160660	642640	303841	-5.44
69 Chrysene-d12	322320	161160	644640	316515	-1.80
77 Perylene-d12	256414	128207	512828	253040	-1.32

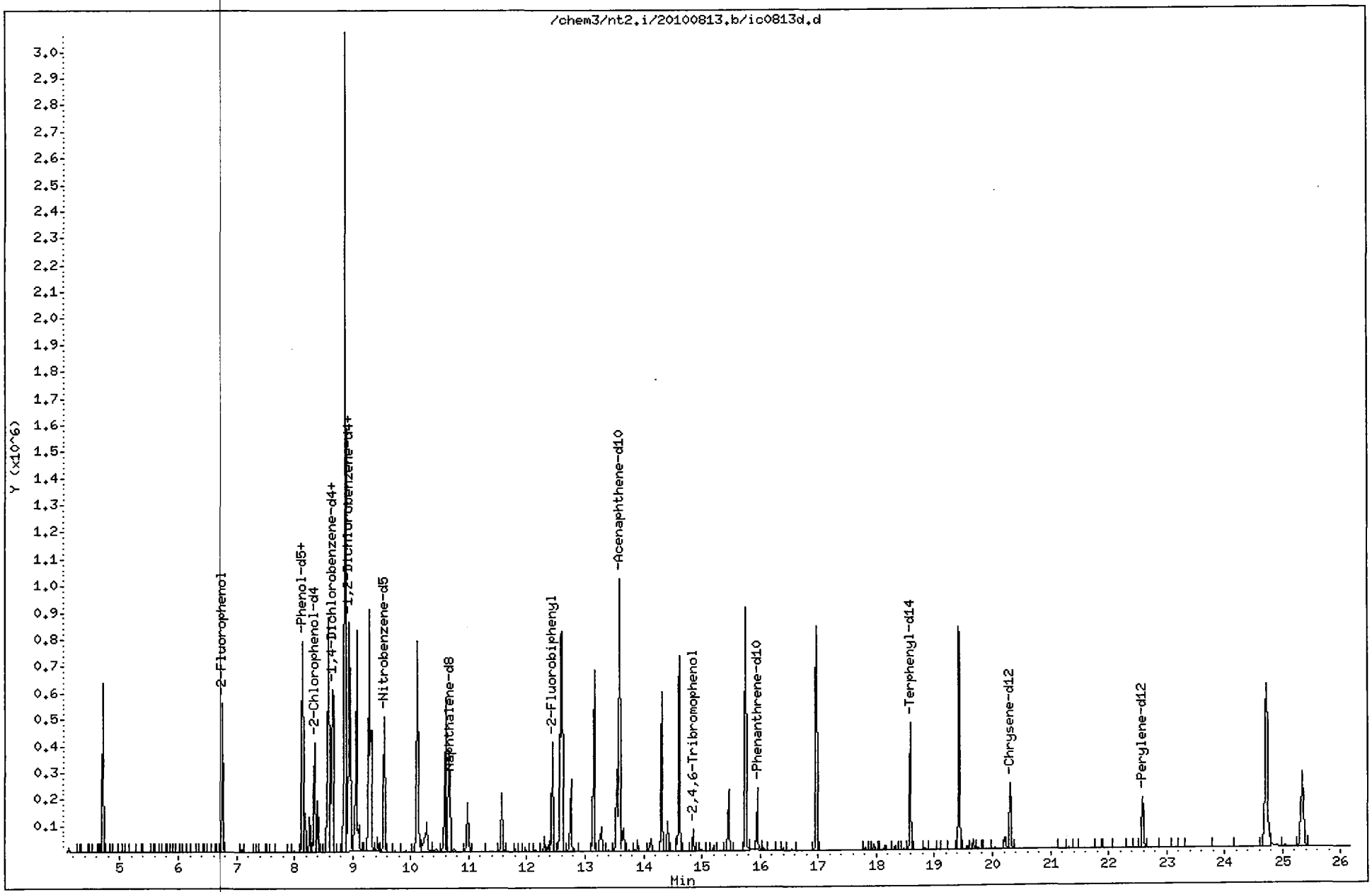
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.00
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.53	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.00
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20100813.b/ic0813d.d
Date : 13-AUG-2010 11:58
Client ID:
Sample Info: IC0813D

Instrument: nt2.i
Operator: yz
Column diameter: 0.25

Column phase: ZB-5msi



RF71:60116

Analytical Resources, Inc.

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/ic0813e.d
Lab Smp Id: IC0813E
Inj Date : 13-AUG-2010 12:32
Operator : yz Inst ID: nt2.i
Smp Info : IC0813E
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 15:52 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 12:32 Cal File: ic0813e.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50

yz 8/13/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.761	6.754	(0.783)	38308	0.50000	0.5168
$	2 Phenol-d5	99	8.125	8.125	(0.941)	46842	0.50000	0.5126
	3 Phenol	94	8.148	8.148	(0.944)	63478	0.50000	0.5210
$	5 2-Chlorophenol-d4	132	8.345	8.345	(0.967)	34307	0.50000	0.4994
	7 1,3-Dichlorobenzene	146	8.581	8.582	(0.994)	54734	0.50000	0.5381
*	8 1,4-Dichlorobenzene-d4	152	8.633	8.634	(1.000)	125744	2.00000	
	9 1,4-Dichlorobenzene	146	8.651	8.651	(1.002)	51571	0.50000	0.5217
$	10 1,2-Dichlorobenzene-d4	152	8.945	8.945	(1.036)	24567	0.50000	0.5208
	11 Benzyl alcohol	79	8.858	8.859	(1.026)	224116	2.50000	2.800
	12 1,2-Dichlorobenzene	146	8.945	8.945	(1.036)	48301	0.50000	0.5245
	13 2-Methylphenol	108	9.066	9.066	(1.050)	53606	0.50000	0.5313
	15 4-Methylphenol	108	9.282	9.282	(1.075)	42520	0.50000	0.5166
	16 N-Nitroso-di-n-propylamine	70	9.312	9.313	(1.079)	44891	0.50000	0.5293
$	18 Nitrobenzene-d5	82	9.543	9.543	(0.896)	40634	0.50000	0.5507
	22 2,4-Dimethylphenol	107	10.113	10.113	(0.949)	50739	0.50000	0.5808
	26 1,2,4-Trichlorobenzene	180	10.594	10.594	(0.995)	36048	0.50000	0.5537
*	27 Naphthalene-d8	136	10.651	10.651	(1.000)	419260	2.00000	
	30 Hexachlorobutadiene	225	10.978	10.978	(1.031)	14916	0.50000	0.5775
$	36 2-Fluorobiphenyl	172	12.428	12.429	(0.918)	64285	0.50000	0.5285
	39 Dimethylphthalate	163	13.154	13.138	(0.972)	74871	0.50000	0.5156
*	42 Acenaphthene-d10	162	13.535	13.536	(1.000)	191344	2.00000	
	50 Diethylphthalate	149	14.293	14.294	(1.056)	76117	0.50000	0.5161
	54 N-Nitrosodiphenylamine	169	14.606	14.606	(0.916)	53170	0.50000	0.5507
$	55 2,4,6-Tribromophenol	330	14.849	14.849	(0.931)	3702	0.50000	0.4680(M)
	57 Hexachlorobenzene	284	15.460	15.460	(0.969)	15537	0.50000	0.5098
	58 Pentachlorophenol	266	15.737	15.737	(0.986)	33452	2.50000	1.740(M)
*	59 Phenanthrene-d10	188	15.953	15.953	(1.000)	285157	2.00000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 66 Terphenyl-d14	244	18.581	18.582	(0.915)	41663	0.50000	0.5131
67 Butylbenzylphthalate	149	19.414	19.415	(0.956)	43981	0.50000	0.4705
* 69 Chrysene-d12	240	20.305	20.306	(1.000)	289110	2.00000	
* 77 Perylene-d12	264	22.583	22.583	(1.000)	226843	2.00000	
79 Dibenzo(a,h)anthracene	278	24.707	24.707	(1.094)	52370	0.50000	0.4523
90 N-Nitrosodimethylamine	74	4.701	4.702	(0.544)	46486	0.50000	0.5257

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic0813e.d
Lab Smp Id: IC0813E
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	125744	-9.04
27 Naphthalene-d8	491469	245734	982938	419260	-14.69
42 Acenaphthene-d10	210728	105364	421456	191344	-9.20
59 Phenanthrene-d10	321320	160660	642640	285157	-11.25
69 Chrysene-d12	322320	161160	644640	289110	-10.30
77 Perylene-d12	256414	128207	512828	226843	-11.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	-0.01
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.53	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.01
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

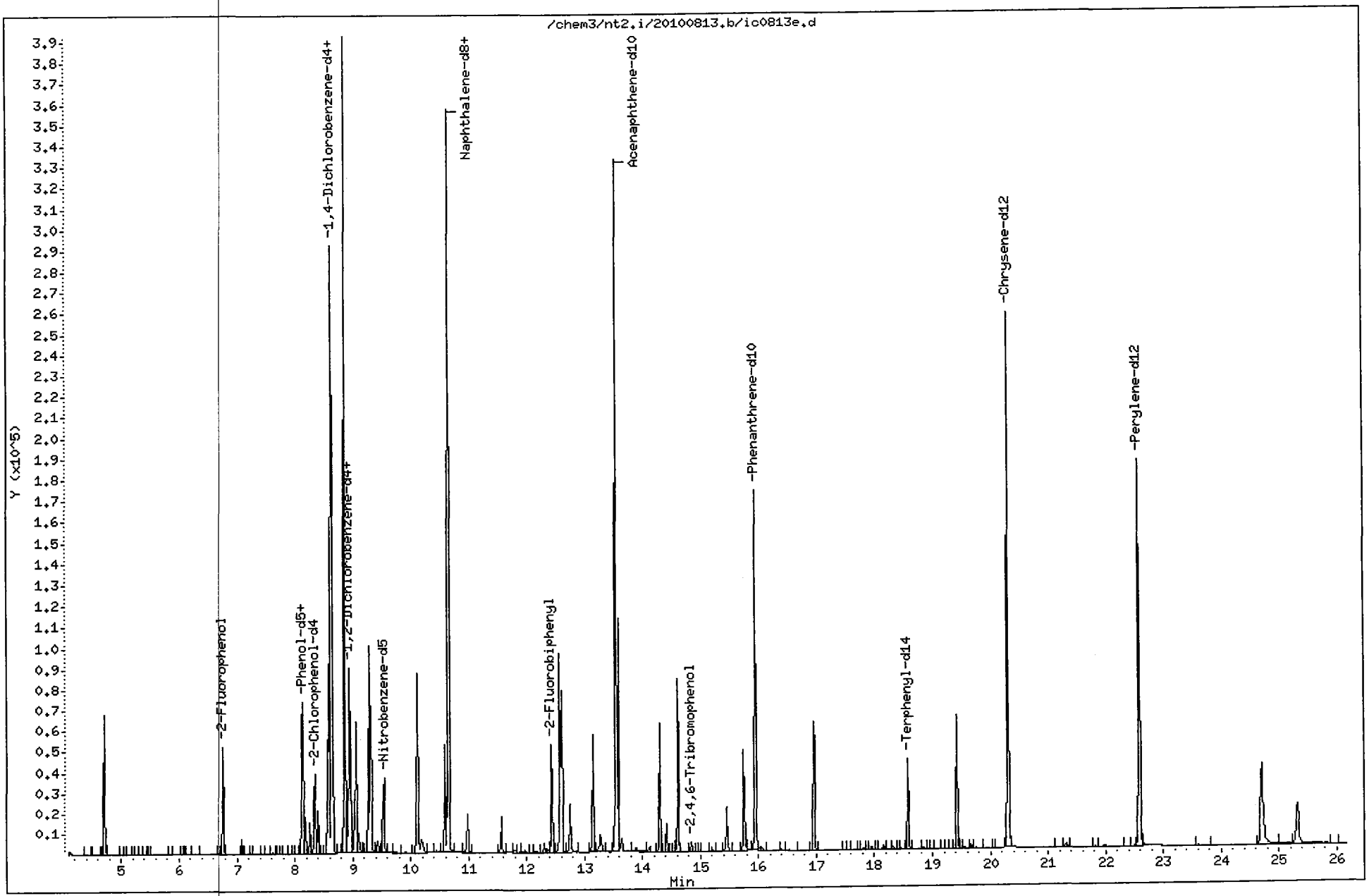
Data File: /chem3/nt2.i/20100813.b/ic0813e.d
Date : 13-AUG-2010 12:32
Client ID:
Sample Info: IC0813E

Instrument: nt2.i

Operator: yz
Column diameter: 0.25

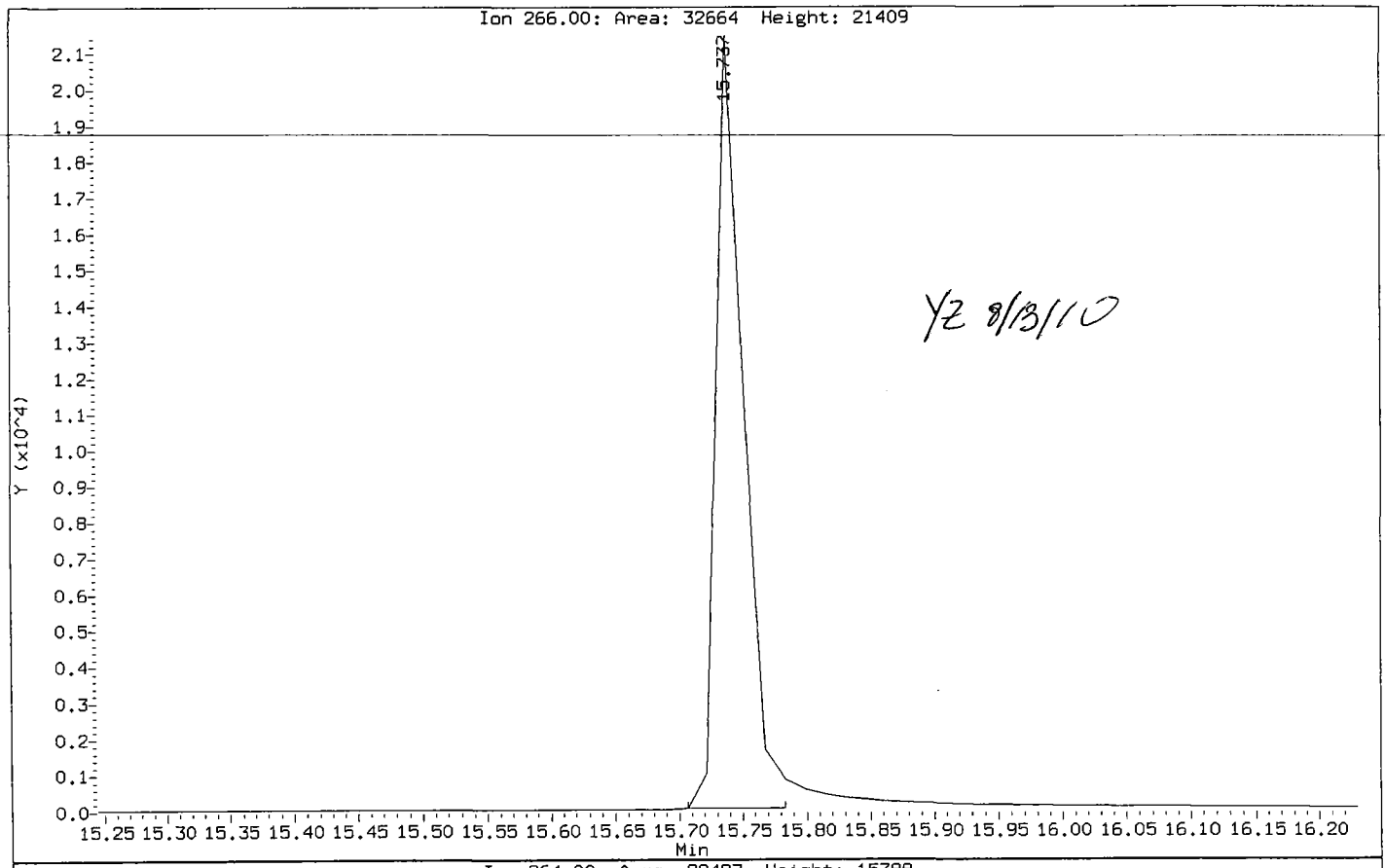
Column phase: ZB-5ms

RF71 80129

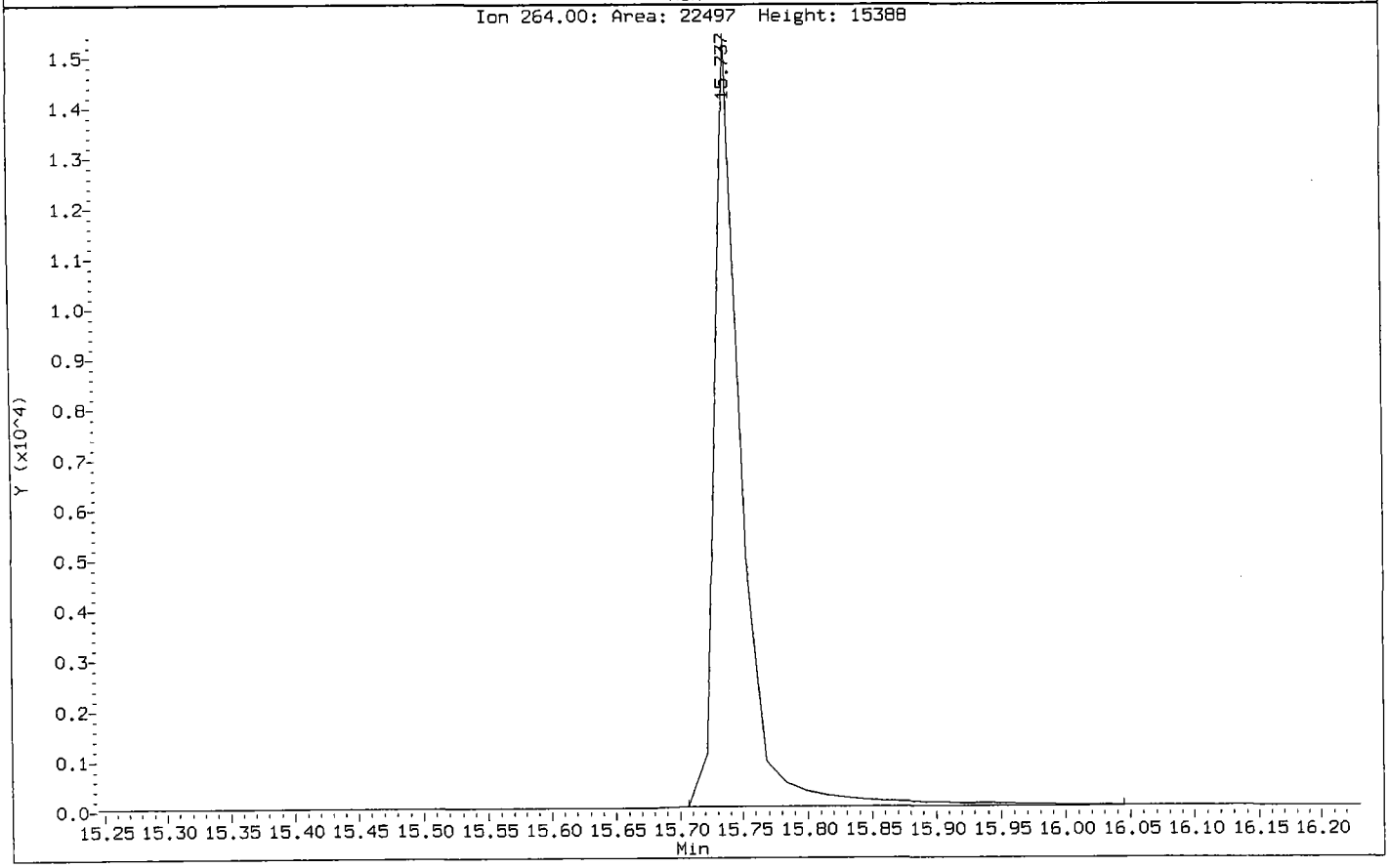


Data File: /chem3/nt2.i/20100813.b/ic0813e.d
Injection Date: 13-AUG-2010 12:32
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



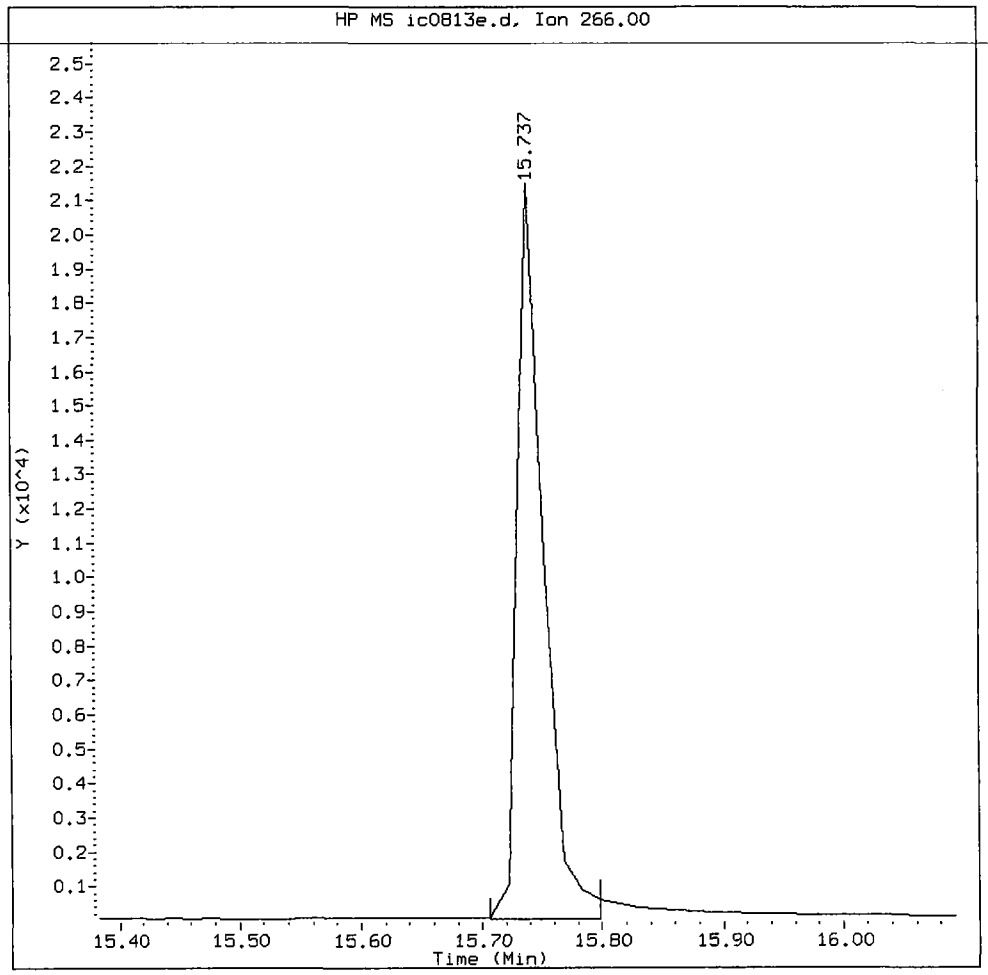
YZ 8/13/10



RF71 : 00421

IC0813E, /chem3/nt2.i/20100813.b/ic0813e.d

Pentachlorophenol Amount: 1.74 Area: 33452



MANUAL INTEGRATION for Pentachlorophenol

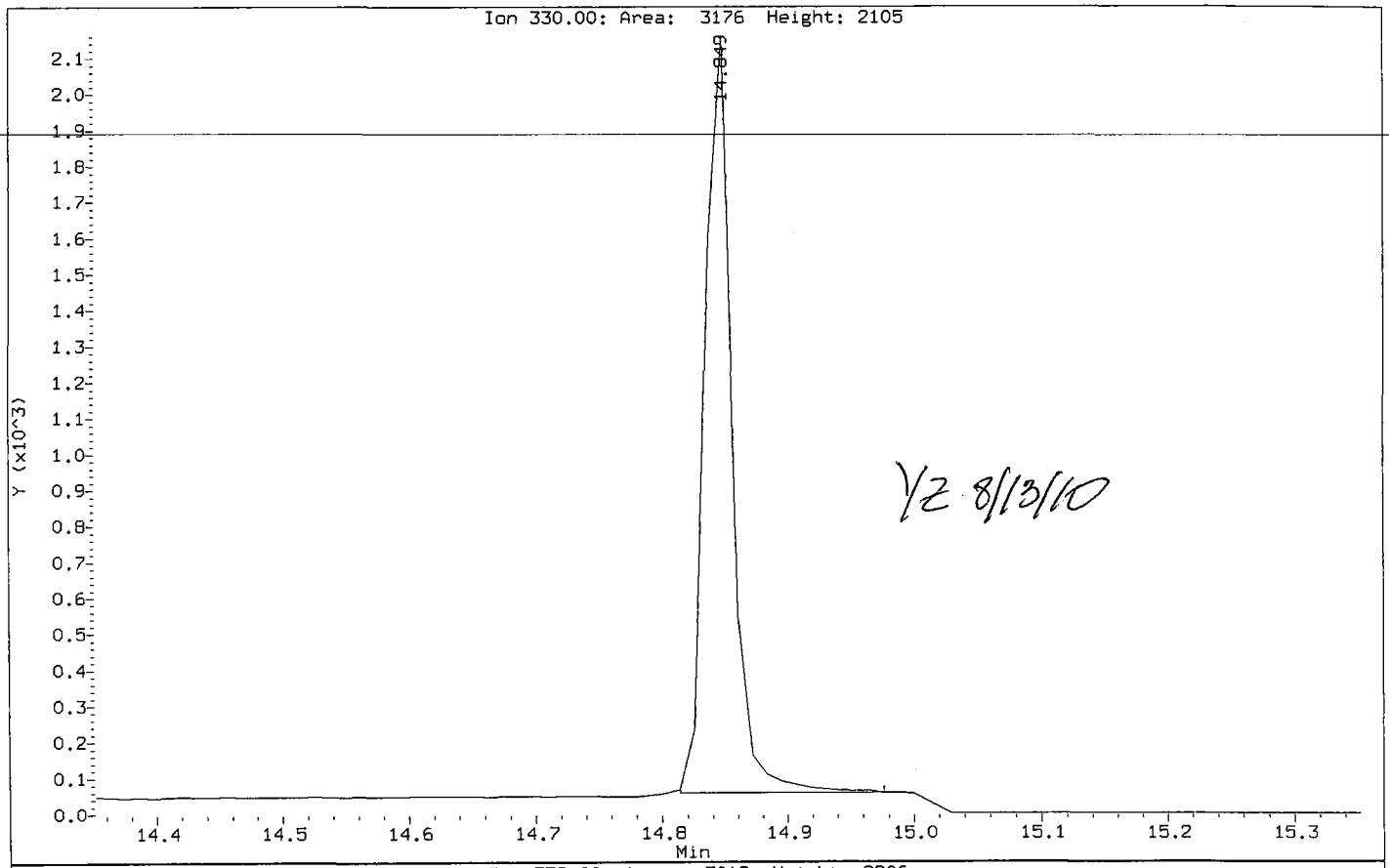
1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

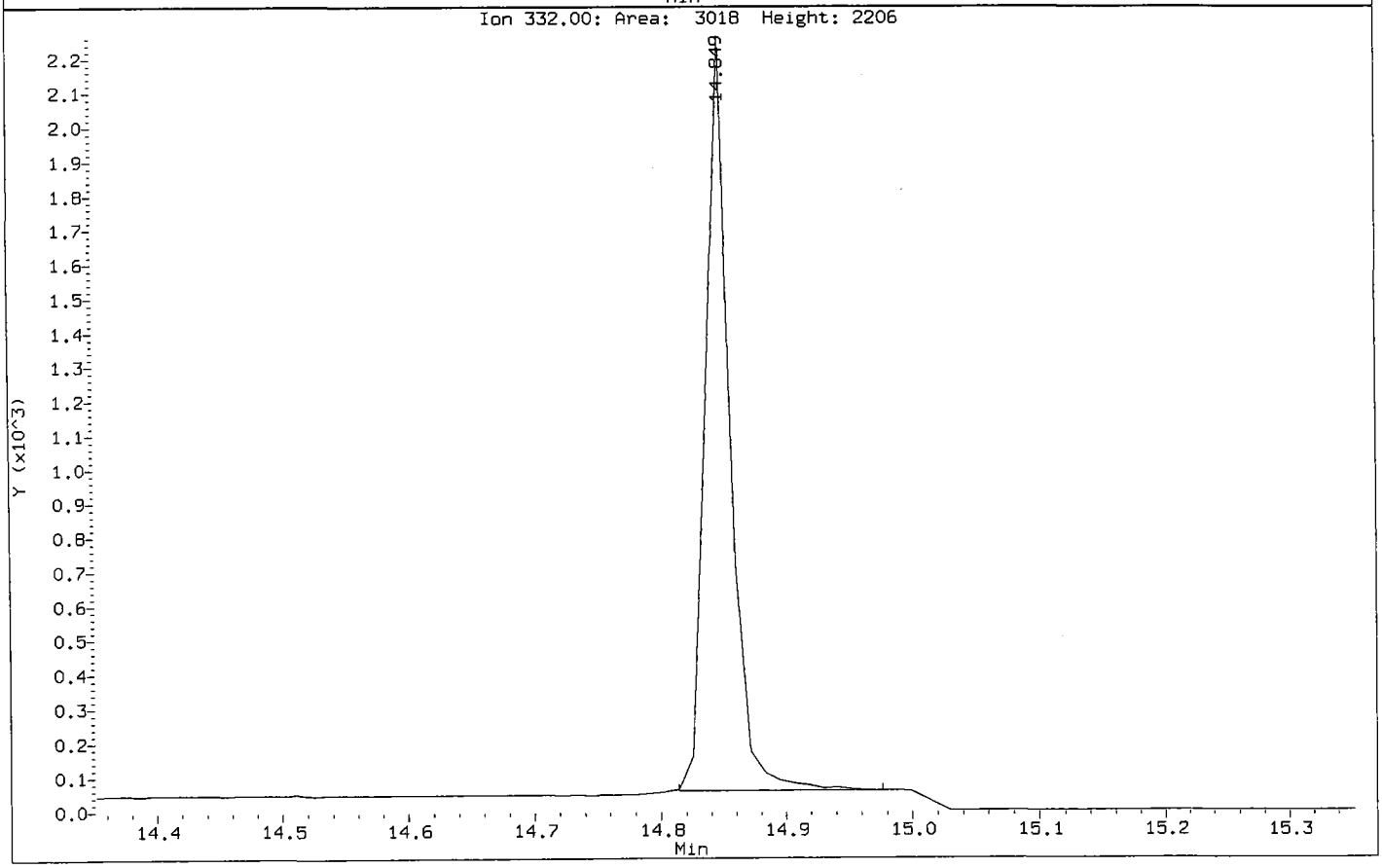
Analyst: YZ Date: 8/13/10

Data File: /chem3/nt2.i/20100813.b/ic0813e.d
Injection Date: 13-AUG-2010 12:32
Instrument: nt2.i
Client Sample ID:

Compound: 2,4,6-Tribromophenol
CAS Number: 118-79-6

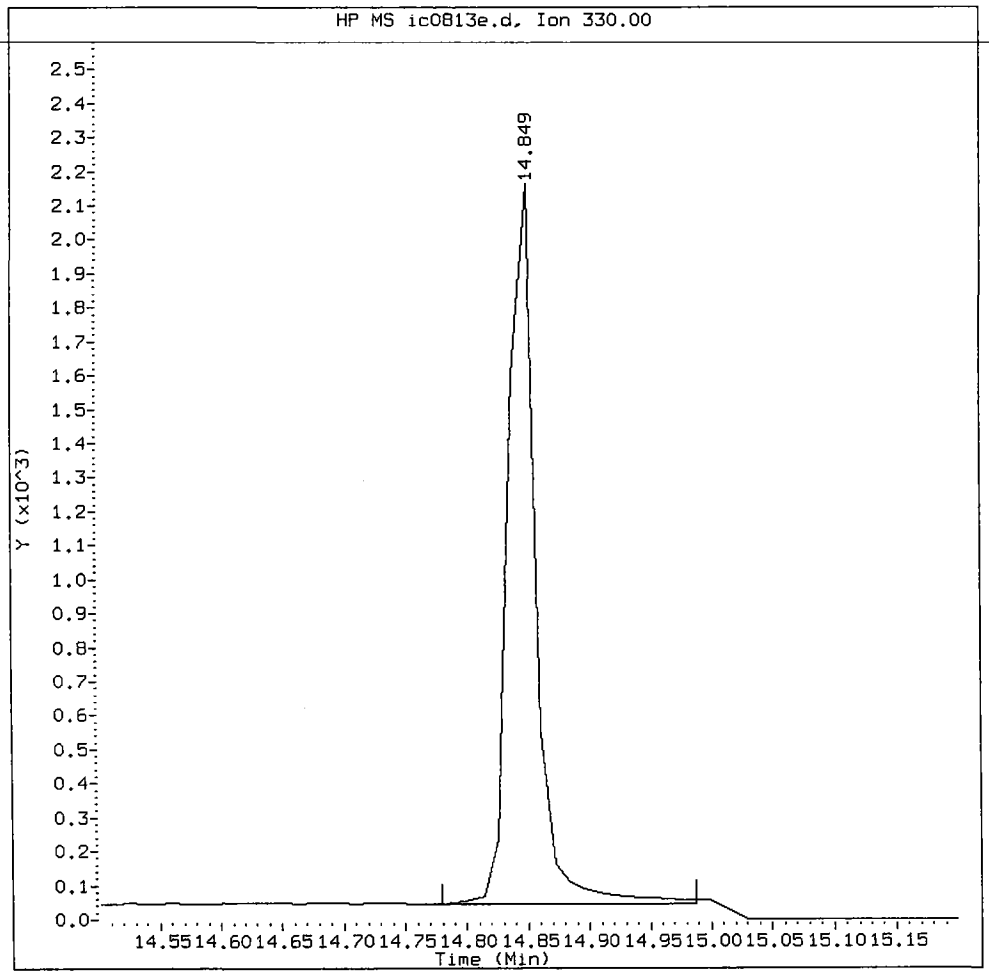


1/2 8/13/10



IC0813E, /chem3/nt2.i/20100813.b/ic0813e.d

2,4,6-Tribromophenol Amount: 0.47 Area: 3702



MANUAL INTEGRATION for 2,4,6-Tribromophenol

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: YZ Date: 8/13/10

Analytical Resources, Inc.

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/ic0813f.d
Lab Smp Id: IC0813F
Inj Date : 13-AUG-2010 13:06
Operator : yz Inst ID: nt2.i
Smp Info : IC0813F
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 15:52 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 13:06 Cal File: ic0813f.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50

YZ 8/13/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.754	6.754	(0.782)	66121	1.00000	0.9376
$ 2	Phenol-d5	99	8.125	8.125	(0.941)	81849	1.00000	0.9415
3	Phenol	94	8.148	8.148	(0.944)	110987	1.00000	0.9575
$ 5	2-Chlorophenol-d4	132	8.345	8.345	(0.967)	61563	1.00000	0.9420
7	1,3-Dichlorobenzene	146	8.582	8.582	(0.994)	92803	1.00000	0.9591
* 8	1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	119630	2.00000	
9	1,4-Dichlorobenzene	146	8.651	8.651	(1.002)	89143	1.00000	0.9478
$ 10	1,2-Dichlorobenzene-d4	152	8.945	8.945	(1.036)	43178	1.00000	0.9621
11	Benzyl alcohol	79	8.859	8.859	(1.026)	375423	5.00000	4.930
12	1,2-Dichlorobenzene	146	8.945	8.945	(1.036)	83171	1.00000	0.9493
13	2-Methylphenol	108	9.066	9.066	(1.050)	94369	1.00000	0.9831
15	4-Methylphenol	108	9.282	9.282	(1.075)	74058	1.00000	0.9458
16	N-Nitroso-di-n-propylamine	70	9.313	9.313	(1.079)	76126	1.00000	0.9434
$ 18	Nitrobenzene-d5	82	9.543	9.543	(0.896)	71179	1.00000	0.9576
22	2,4-Dimethylphenol	107	10.113	10.113	(0.949)	89124	1.00000	1.013
26	1,2,4-Trichlorobenzene	180	10.594	10.594	(0.995)	63126	1.00000	0.9626
* 27	Naphthalene-d8	136	10.651	10.651	(1.000)	422349	2.00000	
30	Hexachlorobutadiene	225	10.978	10.978	(1.031)	24919	1.00000	0.9578
$ 36	2-Fluorobiphenyl	172	12.429	12.429	(0.918)	111789	1.00000	0.9300
39	Dimethylphthalate	163	13.138	13.138	(0.971)	130112	1.00000	0.9067
* 42	Acenaphthene-d10	162	13.536	13.536	(1.000)	189084	2.00000	
50	Diethylphthalate	149	14.294	14.294	(1.056)	138782	1.00000	0.9522
54	N-Nitrosodiphenylamine	169	14.606	14.606	(0.916)	96150	1.00000	1.012
$ 55	2,4,6-Tribromophenol	330	14.849	14.849	(0.931)	6252	1.00000	0.8032
57	Hexachlorobenzene	284	15.460	15.460	(0.969)	27953	1.00000	0.9320
58	Pentachlorophenol	266	15.737	15.737	(0.986)	68660	5.00000	3.628
* 59	Phenanthrene-d10	188	15.953	15.953	(1.000)	280601	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	66 Terphenyl-d14	244	18.582	18.582	(0.915)	76212	1.00000	0.9414
	67 Butylbenzylphthalate	149	19.415	19.415	(0.956)	87296	1.00000	0.9367
*	69 Chrysene-d12	240	20.306	20.306	(1.000)	288267	2.00000	
*	77 Perylene-d12	264	22.583	22.583	(1.000)	224117	2.00000	
	79 Dibenzo(a,h)anthracene	278	24.707	24.707	(1.094)	104023	1.00000	0.9092
	90 N-Nitrosodimethylamine	74	4.702	4.702	(0.545)	80639	1.00000	0.9586

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic0813f.d
Lab Smp Id: IC0813F
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	119630	-13.46
27 Naphthalene-d8	491469	245734	982938	422349	-14.06
42 Acenaphthene-d10	210728	105364	421456	189084	-10.27
59 Phenanthrene-d10	321320	160660	642640	280601	-12.67
69 Chrysene-d12	322320	161160	644640	288267	-10.56
77 Perylene-d12	256414	128207	512828	224117	-12.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	-0.01
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.54	0.01
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.01
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

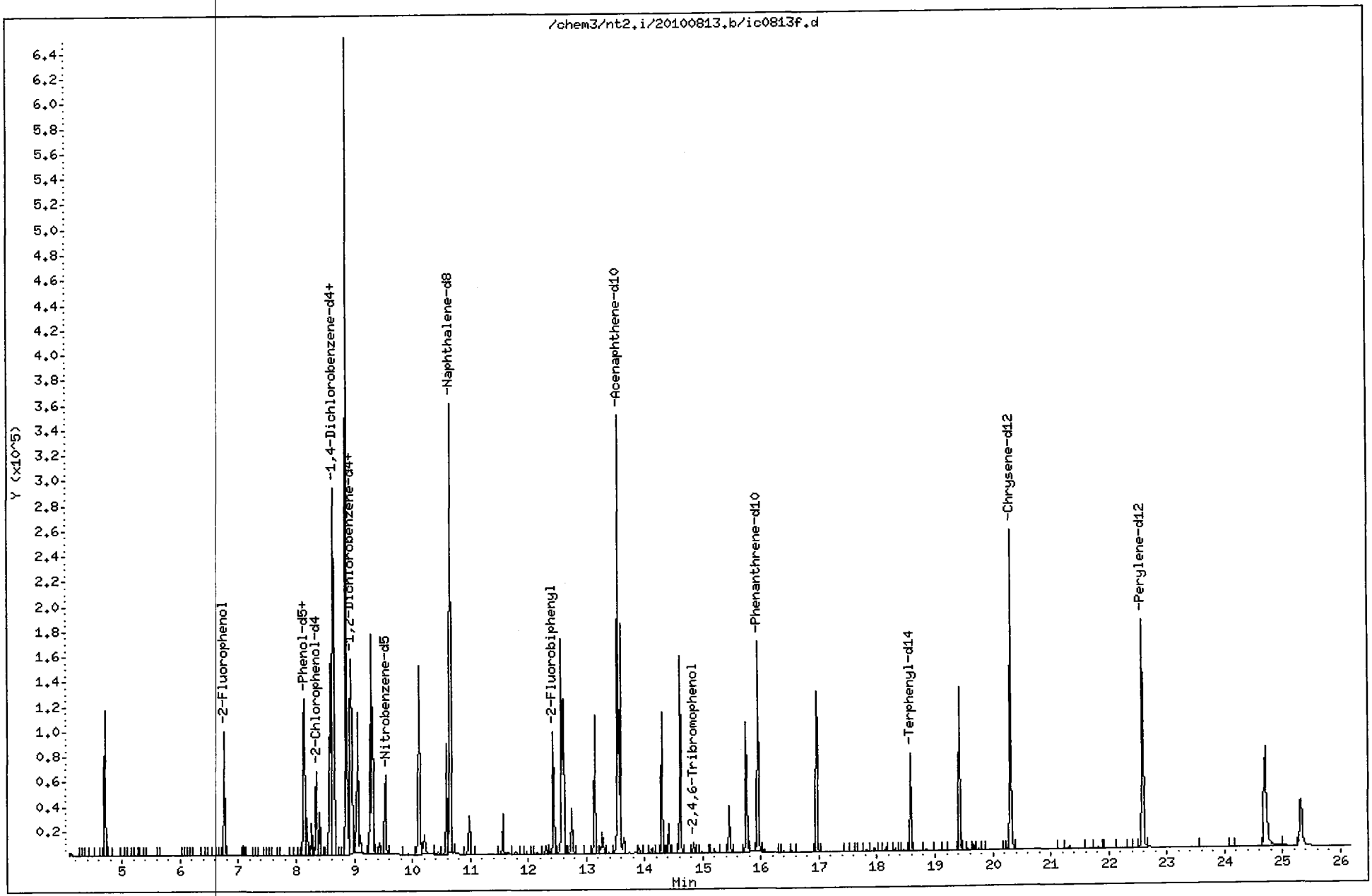
Data File: /chem3/nt2.i/20100813.b/ic0813f.d
Date : 13-AUG-2010 13:06
Client ID:
Sample Info: IC0813F

Instrument: nt2.i

Operator: yz
Column diameter: 0.25

Column phase: ZB-5msi

RT-1 60m28



Analytical Resources, Inc.

METHOD 8270D-SIM

YZ 8/13/10

Data file : /chem3/nt2.i/20100813.b/icv0813.d
Lab Smp Id: ICV0813
Inj Date : 13-AUG-2010 13:40
Operator : yz Inst ID: nt2.i
Smp Info : ICV0813
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 15:52 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 13:06 Cal File: ic0813f.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.150	8.148	(0.944)	263371	1.98028	1.980
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	8.583	8.582	(0.994)	257619	2.32045	2.320
* 8	1,4-Dichlorobenzene-d4	152	8.635	8.634	(1.000)	137258	2.00000	
9	1,4-Dichlorobenzene	146	8.652	8.651	(1.002)	253899	2.35283	2.353
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
11	Benzyl alcohol	79	8.860	8.859	(1.026)	228921	2.62011	2.620
12	1,2-Dichlorobenzene	146	8.947	8.945	(1.036)	235995	2.34762	2.348
13	2-Methylphenol	108	9.066	9.066	(1.050)	235237	2.13594	2.136
15	4-Methylphenol	108	9.281	9.282	(1.075)	182969	2.03660	2.037
16	N-Nitroso-di-n-propylamine	70	9.312	9.313	(1.078)	229220	2.47586	2.476
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.113	10.113	(0.949)	217152	2.14071	2.141
26	1,2,4-Trichlorobenzene	180	10.593	10.594	(0.995)	183273	2.42463	2.425

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 27 Naphthalene-d8	136	10.651	10.651	(1.000)	486790	2.00000	
30 Hexachlorobutadiene	225	10.978	10.978	(1.031)	73502	2.45115	2.451
$ 36 2-Fluorobiphenyl	172	Compound Not Detected.					
39 Dimethylphthalate	163	13.155	13.138	(0.972)	388986	2.46605	2.466
* 42 Acenaphthene-d10	162	13.536	13.536	(1.000)	207839	2.00000	
50 Diethylphthalate	149	14.294	14.294	(1.056)	417293	2.60464	2.605
54 N-Nitrosodiphenylamine	169	14.606	14.606	(0.916)	264980	2.47403	2.474
$ 55 2,4,6-Tribromophenol	330	Compound Not Detected.					
57 Hexachlorobenzene	284	15.460	15.460	(0.969)	82377	2.43636	2.436
58 Pentachlorophenol	266	15.737	15.737	(0.986)	28535	1.33791	1.338(RM)
* 59 Phenanthrene-d10	188	15.953	15.953	(1.000)	316345	2.00000	
$ 66 Terphenyl-d14	244	Compound Not Detected.					
67 Butylbenzylphthalate	149	19.416	19.415	(0.956)	304460	2.32050	2.320
* 69 Chrysene-d12	240	20.305	20.306	(1.000)	339305	2.00000	
* 77 Perylene-d12	264	22.583	22.583	(1.000)	265089	2.00000	
79 Dibenzo(a,h)anthracene	278	24.722	24.707	(1.095)	365543	2.70127	2.701
90 N-Nitrosodimethylamine	74	4.708	4.702	(0.545)	239350	2.47993	2.480

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: icv0813.d
Lab Smp Id: ICV0813
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17

Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	137258	-0.71
27 Naphthalene-d8	491469	245734	982938	486790	-0.95
42 Acenaphthene-d10	210728	105364	421456	207839	-1.37
59 Phenanthrene-d10	321320	160660	642640	316345	-1.55
69 Chrysene-d12	322320	161160	644640	339305	5.27
77 Perylene-d12	256414	128207	512828	265089	3.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.64	0.01
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.54	0.01
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.01
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Client SDG:
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: ICV0813
Level: LOW
Operator: yz
Data Type: MS DATA
SampleType: LCS
SpikeList File: ICV.spk
Quant Type: ISTD
Sublist File: wind.sub
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Phenol	2.500	1.980	79.21	70-130
4 Bis(2-Chloroethyl	2.500	0.000	*	70-130
6 2-Chlorophenol	2.500	0.000	*	70-130
7 1,3-Dichlorobenzen	2.500	2.320	92.82	70-130
9 1,4-Dichlorobenzen	2.500	2.353	94.11	70-130
11 Benzyl alcohol	2.500	2.620	104.80	70-130
12 1,2-Dichlorobenzen	2.500	2.348	93.90	70-130
13 2-Methylphenol	2.500	2.136	85.44	70-130
14 2,2'-oxybis(1-Chl	2.500	0.000	*	70-130
15 4-Methylphenol	2.500	2.037	81.46	70-130
16 N-Nitroso-di-n-pro	2.500	2.476	99.03	70-130
19 Nitrobenzene	2.500	0.000	*	70-130
20 Isophorone	2.500	0.000	*	70-130
21 2-Nitrophenol	2.500	0.000	*	70-130
22 2,4-Dimethylphenol	2.500	2.141	85.63	70-130
23 Bis(2-Chloroethox	2.500	0.000	*	70-130
24 Benzoic acid	5.000	0.000	*	70-130
25 2,4-Dichlorophenol	2.500	0.000	*	70-130
26 1,2,4-Trichloroben	2.500	2.425	96.99	70-130
28 Naphthalene	2.500	0.000	*	70-130
29 4-Chloroaniline	2.500	0.000	*	70-130
30 Hexachlorobutadien	2.500	2.451	98.05	70-130
31 4-Chloro-3-methyl	2.500	0.000	*	70-130
32 2-Methylnaphthale	2.500	0.000	*	70-130
33 Hexachlorocyclope	2.500	0.000	*	70-130
34 2,4,6-Trichloroph	2.500	0.000	*	70-130
35 2,4,5-Trichloroph	2.500	0.000	*	70-130
37 2-Chloronaphthale	2.500	0.000	*	70-130
39 Dimethylphthalate	2.500	2.466	98.64	70-130
40 Acenaphthylene	2.500	0.000	*	70-130
43 3-Nitroaniline	2.500	0.000	*	70-130
44 Acenaphthene	2.500	0.000	*	70-130
45 2,4-Dinitrophenol	5.000	0.000	*	70-130

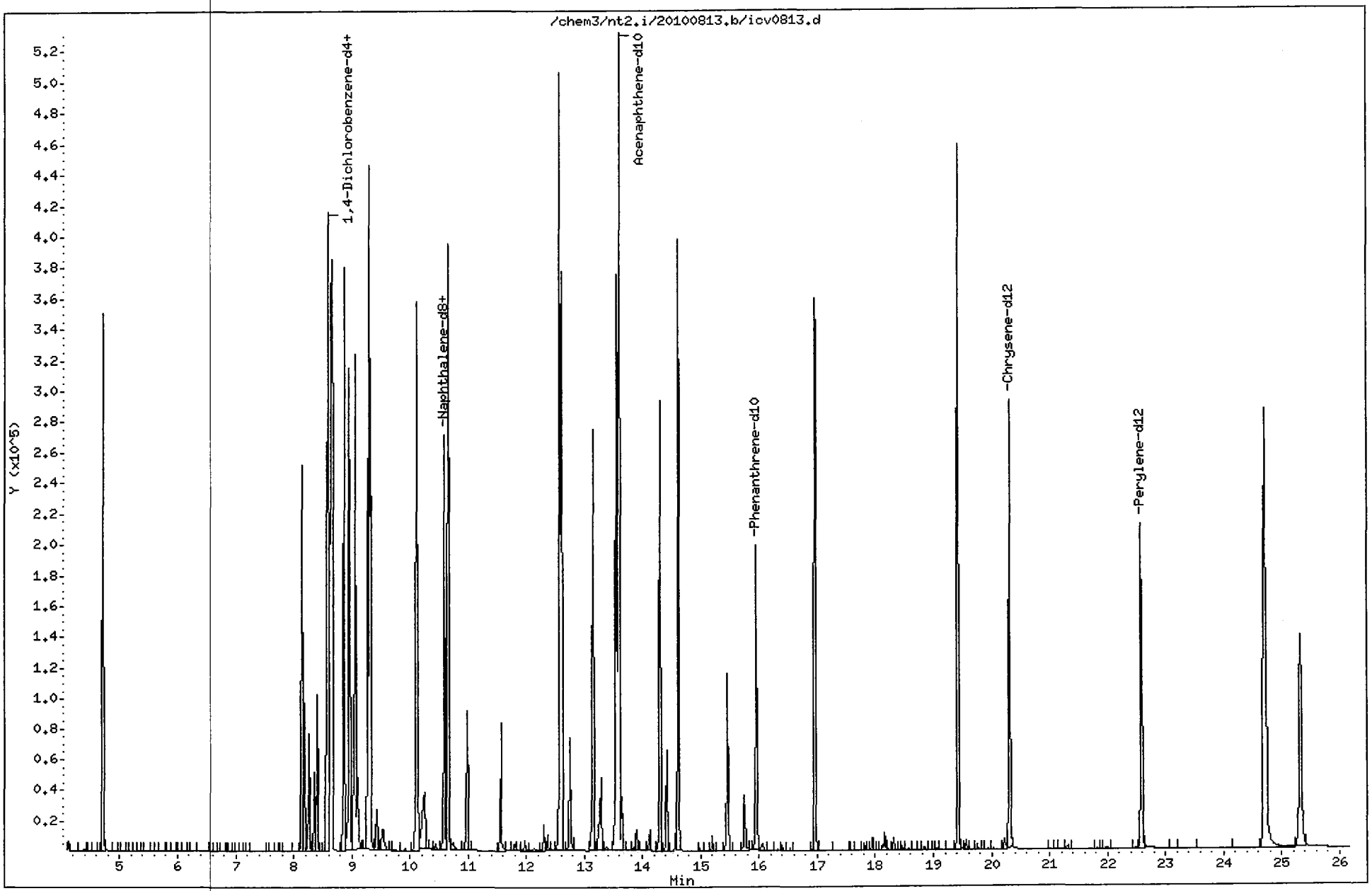
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 Dibenzofuran	2.500	0.000	*	70-130
48 2,4-Dinitrotoluene	2.500	0.000	*	70-130
49 Fluorene	2.500	0.000	*	70-130
50 Diethylphthalate	2.500	2.605	104.19	70-130
51 4-Chlorophenyl-ph	2.500	0.000	*	70-130
52 4-Nitroaniline	2.500	0.000	*	70-130
53 4,6-Dinitro-2-met	5.000	0.000	*	70-130
54 N-Nitrosodiphenyla	2.500	2.474	98.96	70-130
56 4-Bromophenyl-phe	2.500	0.000	*	70-130
57 Hexachlorobenzene	2.500	2.436	97.45	70-130
58 Pentachlorophenol	2.500	1.338	53.52*	70-130
60 Phenanthrene	2.500	0.000	*	70-130
61 Anthracene	2.500	0.000	*	70-130
62 Carbazole	2.500	0.000	*	70-130
63 Di-n-butylphthala	2.500	0.000	*	70-130
64 Fluoranthene	2.500	0.000	*	70-130
65 Pyrene	2.500	0.000	*	70-130
67 Butylbenzylphthala	2.500	2.320	92.82	70-130
68 Benzo(a)anthracene	2.500	0.000	*	70-130
70 3,3'-Dichlorobenz	2.500	0.000	*	70-130
71 Chrysene	2.500	0.000	*	70-130
72 bis(2-Ethylhexyl)	2.500	0.000	*	70-130
73 Di-n-octylphthala	2.500	0.000	*	70-130
74 Benzo(b)fluoranth	2.500	0.000	*	70-130
75 Benzo(k)fluoranth	2.500	0.000	*	70-130
76 Benzo(a)pyrene	2.500	0.000	*	70-130
78 Indeno(1,2,3-cd)p	2.500	0.000	*	70-130
79 Dibenzo(a,h)anthra	2.500	2.701	108.05	70-130
80 Benzo(g,h,i)peryl	2.500	0.000	*	70-130
103 Pyridine	2.500	0.000	*	70-130
90 N-Nitrosodimethyla	2.500	2.480	99.20	70-130
91 Aniline	2.500	0.000	*	70-130
105 1-methylnaphthale	2.500	0.000	*	70-130
111 Azobenzene (1,2-D	2.500	0.000	*	70-130
93 Benzidine	2.500	0.000	*	70-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	7.500	0.000	*	30-160
$ 2 Phenol-d5	7.500	0.000	*	30-160
$ 5 2-Chlorophenol-d4	7.500	0.000	*	30-160
$ 10 1,2-Dichlorobenze	5.000	0.000	*	30-160
$ 18 Nitrobenzene-d5	5.000	0.000	*	30-160

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	5.000	0.000	*	30-160
$ 55 2,4,6-Tribromophe	7.500	0.000	*	30-160
$ 66 Terphenyl-d14	5.000	0.000	*	30-160

Data File: /chem3/nt2.i/20100813.b/icv0813.d
Date : 13-AUG-2010 13:40
Client ID:
Sample Info: ICV0813
Volume Injected (uL): 1.0
Column phase: ZB-5msi

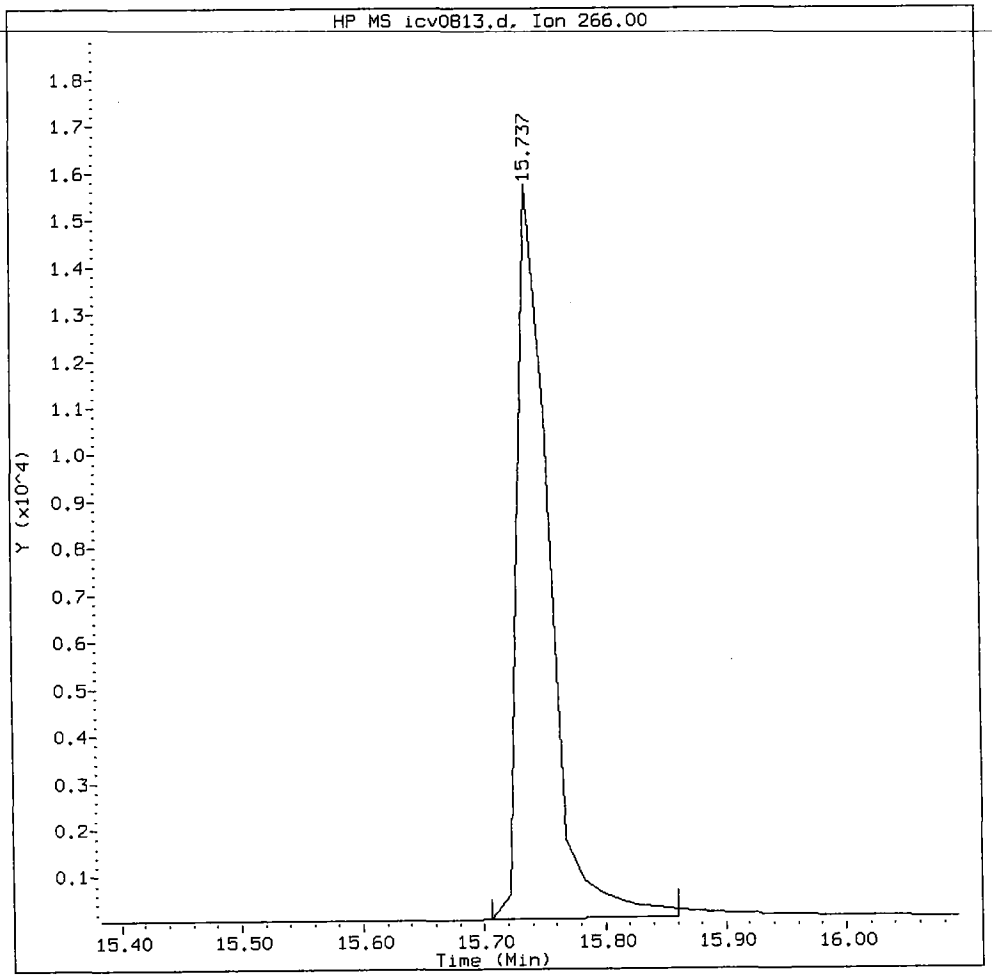
Instrument: nt2.i
Operator: yz
Column diameter: 0.25



RT-1 50-135

ICV0813, /chem3/nt2.i/20100813.b/icv0813.d

Pentachlorophenol Amount: 1.34 Area: 28535



MANUAL INTEGRATION for Pentachlorophenol

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: YZ Date: 8/13/10

Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

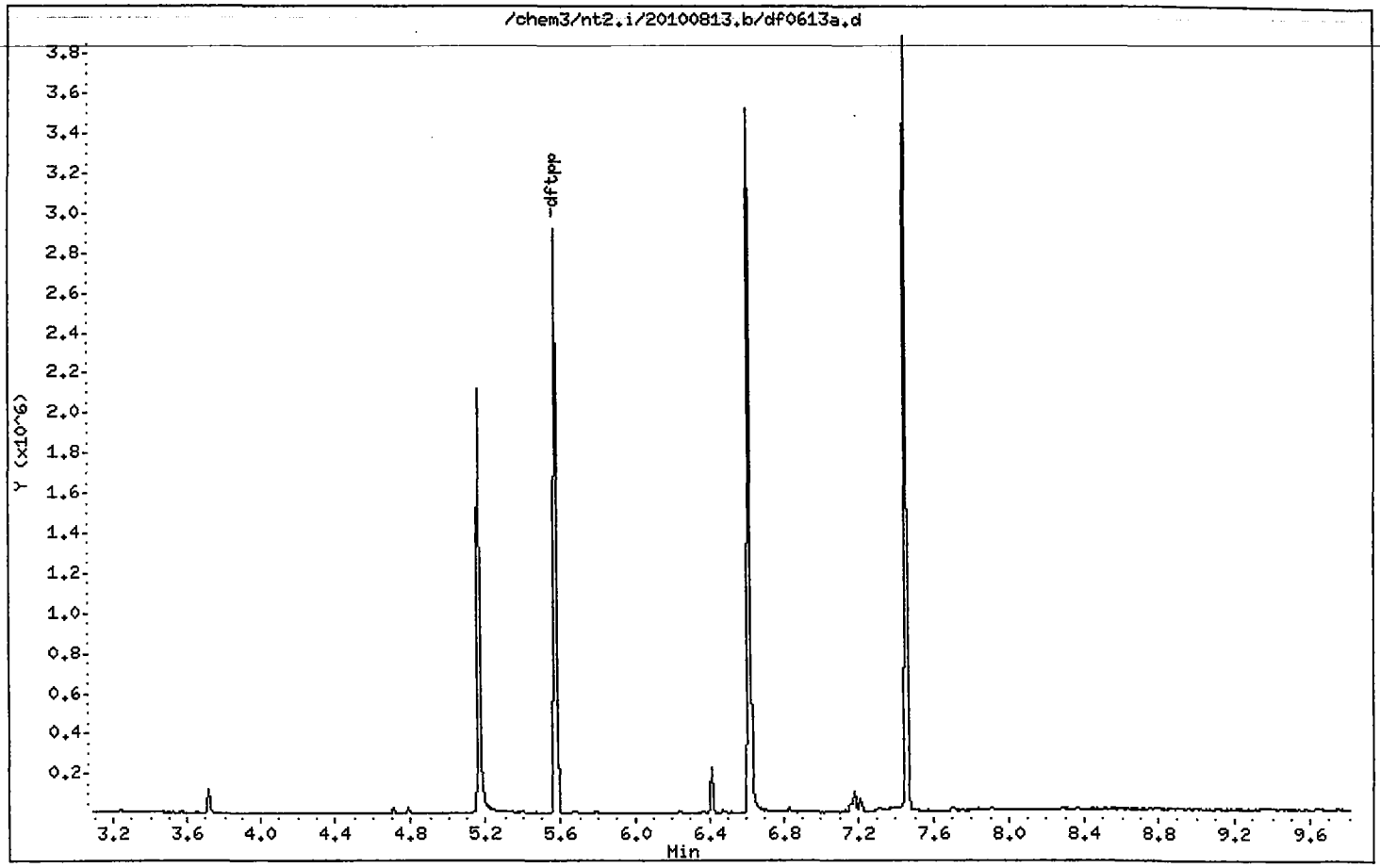
Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25



Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

Instrument: nt2.i

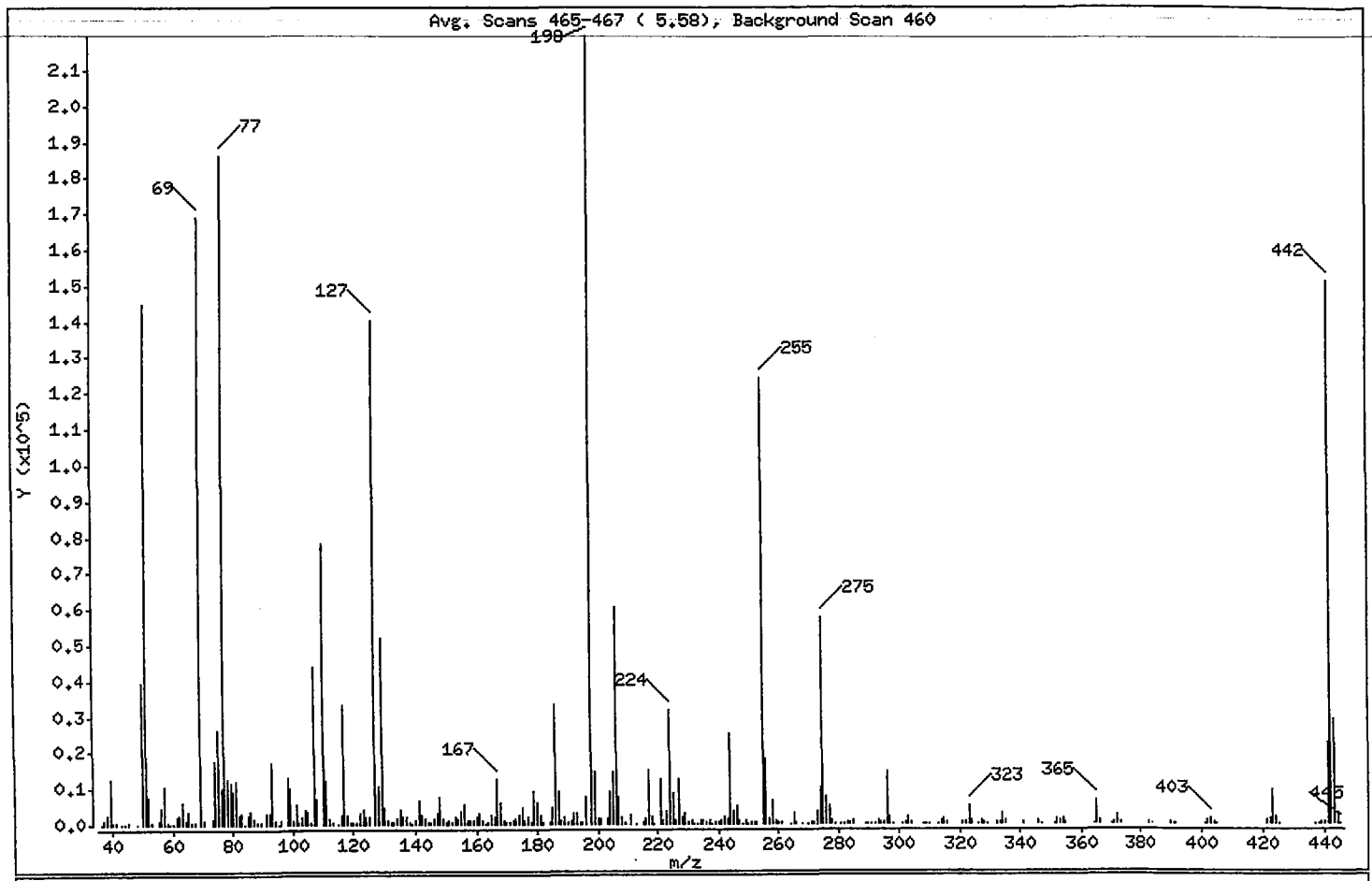
Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	66.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	76.95
70	Less than 2.00% of mass 69	0.39 (0.50)
127	10.00 - 80.00% of mass 198	63.86
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 60.00% of mass 198	26.28
365	Greater than 1.00% of mass 198	3.08
441	0.01 - 24.00% of mass 442	10.33 (14.97)
442	50.00 - 200.00% of mass 198	69.02
443	15.00 - 24.00% of mass 442	13.38 (19.38)

Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0613a.d

Spectrum: Avg. Scans 465-467 (5.58), Background Scan 460

Location of Maximum: 198.00

Number of points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	11	123.00	4195	201.00	1297	290.00	141
37.00	840	124.00	1924	203.00	1638	291.00	97
38.00	2398	125.00	1894	204.00	8912	292.00	122
39.00	12522	127.00	140224	205.00	14883	293.00	1109
40.00	619	128.00	10852	206.00	60464	294.00	270
41.00	258	129.00	52024	207.00	7682	295.00	419
43.00	146	130.00	4420	208.00	2033	296.00	14748
44.00	73	131.00	995	209.00	622	297.00	2097
45.00	280	132.00	574	211.00	2330	298.00	140
48.00	72	133.00	315	213.00	151	301.00	89
50.00	39368	134.00	1573	215.00	742	302.00	362
51.00	145088	135.00	4098	216.00	1435	303.00	1992
52.00	7681	136.00	1899	217.00	14948	304.00	587
53.00	432	137.00	2025	218.00	2064	308.00	154
55.00	789	138.00	384	219.00	158	309.00	77
56.00	4427	139.00	224	221.00	12804	310.00	188
57.00	10595	140.00	841	222.00	1225	313.00	106
58.00	448	141.00	6699	223.00	3340	314.00	822
59.00	108	142.00	2367	224.00	31832	315.00	1734
60.00	75	143.00	1528	225.00	8761	316.00	747
61.00	2056	144.00	455	226.00	1005	321.00	499
62.00	2480	145.00	307	227.00	12631	322.00	265
63.00	6095	146.00	1371	228.00	1812	323.00	5004
64.00	922	147.00	3197	229.00	2946	324.00	924
65.00	3314	148.00	7642	230.00	494	326.00	78
66.00	359	149.00	1465	231.00	1124	327.00	893
67.00	446	150.00	533	232.00	113	328.00	509
69.00	168960	151.00	923	233.00	131	329.00	74
70.00	846	152.00	560	234.00	868	332.00	384
73.00	1476	153.00	2073	235.00	969	333.00	468
74.00	17624	154.00	1459	236.00	731	334.00	3140
75.00	26040	155.00	3631	237.00	1093	335.00	980
76.00	9846	156.00	5397	238.00	87	341.00	639
77.00	186112	157.00	1104	239.00	655	346.00	1222
78.00	12602	158.00	1201	240.00	412	347.00	178

Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0613a.d

Spectrum: Avg. Scans 465-467 (5.58), Background Scan 460

Location of Maximum: 198.00

Number of points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	11360	159.00	973	241.00	875	351.00	93
80.00	9112	160.00	2100	242.00	1882	352.00	1457
81.00	11962	161.00	3084	243.00	1706	353.00	1035
82.00	2602	162.00	802	244.00	25200	354.00	1623
83.00	3158	163.00	211	245.00	3581	355.00	311
84.00	249	164.00	387	246.00	5162	364.00	69
85.00	2466	165.00	2462	247.00	990	365.00	6763
86.00	3287	166.00	1975	248.00	243	366.00	992
87.00	1665	167.00	12485	249.00	903	370.00	83
88.00	594	168.00	6266	250.00	176	371.00	418
89.00	364	169.00	1243	251.00	278	372.00	2591
91.00	2805	170.00	432	252.00	253	373.00	653
92.00	2896	171.00	550	253.00	711	383.00	584
93.00	17352	172.00	1084	255.00	124376	384.00	105
94.00	1260	173.00	1381	256.00	18104	390.00	336
95.00	89	174.00	2659	257.00	1560	391.00	87
96.00	966	175.00	4783	258.00	6671	392.00	67
98.00	12998	176.00	1187	259.00	1162	401.00	118
99.00	10346	177.00	2264	260.00	284	402.00	1083
100.00	891	178.00	752	261.00	304	403.00	1490
101.00	5633	179.00	8907	264.00	244	404.00	518
102.00	320	180.00	6170	265.00	2786	405.00	88
103.00	2091	181.00	2695	266.00	332	421.00	1176
104.00	3814	182.00	562	268.00	70	422.00	1352
105.00	3387	184.00	744	270.00	110	423.00	9661
106.00	558	185.00	4468	271.00	256	424.00	1770
107.00	43824	186.00	33224	272.00	390	425.00	75
108.00	6996	187.00	9223	273.00	3516	437.00	77
110.00	78456	188.00	1078	274.00	9937	438.00	191
111.00	12047	189.00	1947	275.00	57712	439.00	304
112.00	1485	190.00	257	276.00	7598	440.00	412
113.00	461	191.00	977	277.00	5137	441.00	22680
115.00	239	192.00	3026	278.00	849	442.00	151552
116.00	2289	193.00	3088	279.00	74	443.00	29376
117.00	33208	194.00	629	281.00	71	444.00	2846

Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0613a.d

Spectrum: Avg. Scans 465-467 (5.58), Background Scan 460

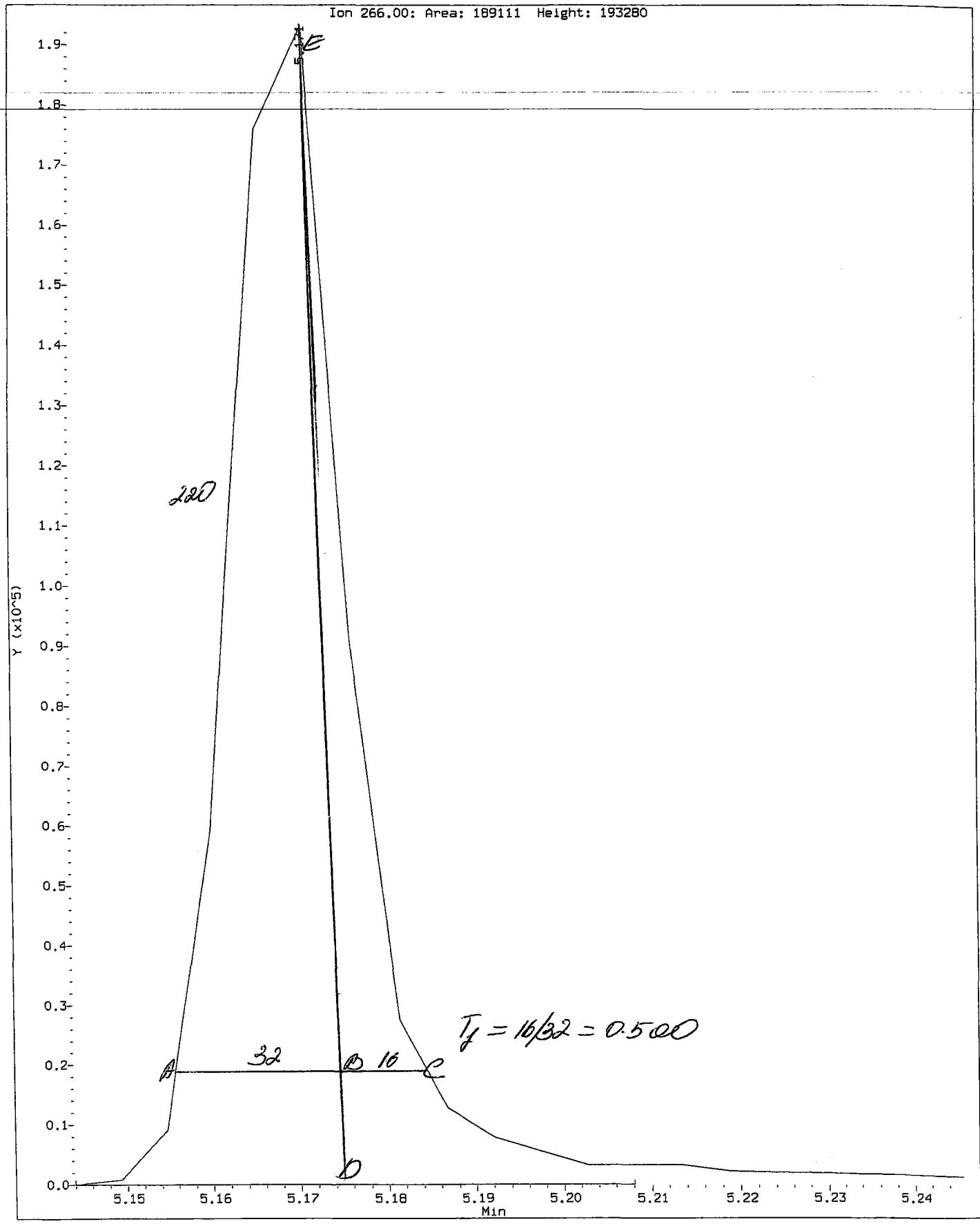
Location of Maximum: 198.00

Number of points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	2376	195.00	552	282.00	82	445.00	98
119.00	466	196.00	7603	283.00	667		
120.00	601	198.00	219584	284.00	446		
121.00	283	199.00	14776	285.00	980		
122.00	2908	200.00	1322	289.00	98		

Data File: /chem3/nt2.i/20100813.b/ddt.b/df0613a.d
Injection Date: 13-AUG-2010 10:01
Instrument: nt2.i
Client Sample ID:

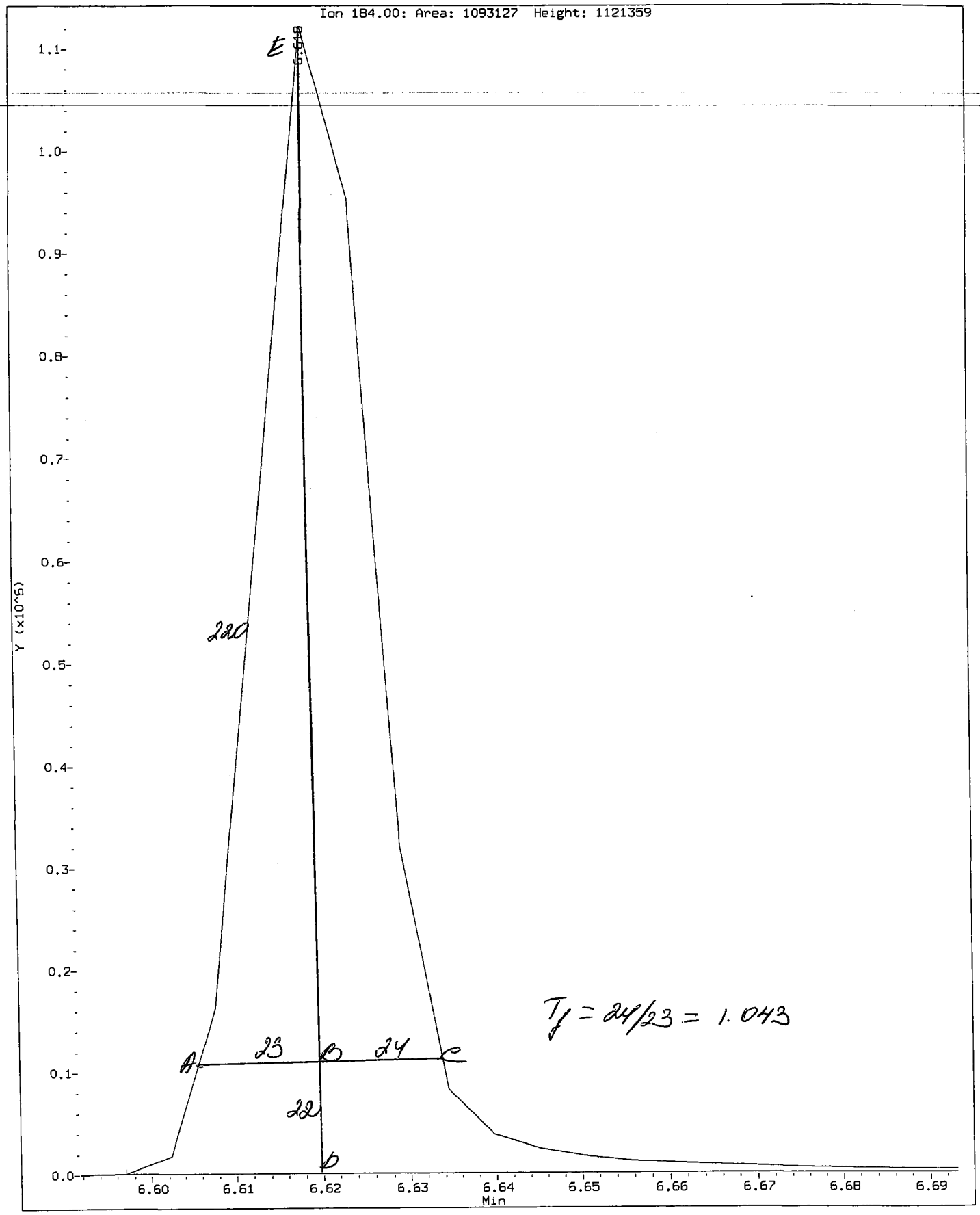
Compound: Pentachlorophenol
CAS Number: 87-86-5



RF71 : 00442

Data File: /chem3/nt2.i/20100813.b/ddt.b/df0613a.d
Injection Date: 13-AUG-2010 10:01
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



RF71:00443

SIM Semivolatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: Anchor QEA

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): SIM ABN

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 08/13/10 Analysis Start Date: 08/13/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: YR **Date:** 8/16/10

Reviewer: [signature] **Date:** 8/16/10

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt2.i/20100813.b

ARI Job No.: RF71 Method: SIMABN.m Instrument: nt2.i Date: 13-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1414	rf71mb.d	RF71MBS1	RF71MBS1	1	NO MANUAL INTEGRATION
1448	rf71sb.d	RF71LCSS1	RF71LCSS1	1	NO MANUAL INTEGRATION
1522	rf71sbd.d	RF71LCSDS1	RF71LCSDS1	1	NO MANUAL INTEGRATION
1556	rf71a.d	RF71A	BW-07-SC-C	1	N-Nitroso-di-n-propylamine, Nitrobenzene-d5,

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 08/13/10 Analysis: SIM ARW Analyst: YZ

GC Program: SIMWIND Column No: 195517 Column Type: ZB5 MSI

Instrument Tune (.U or .CT.): 072310 ct EM Voltage: 1800

Calibration File: DF 0613 Curve Date: 08/13/10

IS/SS	Ical/Ccal		LCS/ICV
1754-1	1736-1	1588-3	1720-1
	1735-1		1721-2
	1733-1		1713-1
	1741-3		1751-3
	1753-5		

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt2.i/20100813.b

	Time	Filename	LabID	ClientId	DF										
1	1001	df0613a.d	DF0613A		1	|NO ISTDS FOUND||									
2	1017	ic0813a.d	IC0813A		1	| 8.63	138235||10.65	491469||13.54	210728||15.95	321320||20.31	322320||22.58	256414|			
3	1051	ic0813b.d	IC0813B		1	| 8.64	137771||10.65	595528||13.54	203820||15.95	325087||20.32	344386||22.60	274090			
4	1124	ic0813c.d	IC0813C		1	| 8.63	125364||10.65	411615||13.53	190385||15.95	287857||20.31	279752||22.58	218511			
5	1158	ic0813d.d	IC0813D		1	| 8.63	126846||10.65	506779||13.53	194327||15.95	303841||20.31	316515||22.58	253040			
6	1232	ic0813e.d	IC0813E		1	| 8.63	125744||10.65	419260||13.53	191344||15.95	285157||20.31	289110||22.58	226843			
7	1306	ic0813f.d	IC0813F		1	| 8.63	119630||10.65	422349||13.54	189084||15.95	280601||20.31	288267||22.58	224117|			
8	1340	icv0813.d	ICV0813		1	| 8.64	137258||10.65	486790||13.54	207839||15.95	316345||20.31	339305||22.58	265089|			
9	1414	rf71mb.d	RF71MBS1	RF71MBS1	1	| 8.63	125710||10.65	400999||13.53	190139||15.95	279324||20.31	268147||22.58	207397|			
10	1448	rf71sb.d	RF71LCSS1	RF71LCSS1	1	| 8.63	129044||10.65	404735||13.53	187493||15.95	280326||20.31	291387||22.58	230705|			
11	1522	rf71sbd.d	RF71LCSDS1	RF71LCSDS1	1	| 8.63	129935||10.65	404125||13.54	190648||15.95	287721||20.31	289771||22.58	226471|			
12	1556	rf71a.d	RF71A	BW-07-SC-COM	1	| 8.63	121912||10.65	394421||13.53	185630||15.95	290129||20.34	326628||22.63	206741|			

YZ 8/16/10

Maintenance / Comments new liner, clipped ~1 coop of the column

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): TC 0813 A

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt2.i
Lab File ID: ic0813a.d
Analysis Type:
Lab Sample ID: IC0813A
Method: /chem3/nt2.i/20100813.b/SIMABN.m

Injection Date: 13-AUG-2010 10:17
Init. Cal. Date(s): 13-AUG-2010 13-AUG-2010
Init. Cal. Times: 10:17 13:06
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.17905	1.14628	1.14628	0.010	-2.77961	20.00000	Averaged
$ 2 Phenol-d5	1.45345	1.43635	1.43635	0.010	-1.17626	20.00000	Averaged
3 Phenol	1.93791	1.92142	1.92142	0.010	-0.85087	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.09263	1.07031	1.07031	0.010	-2.04236	20.00000	Averaged
7 1,3-Dichlorobenzene	1.61770	1.55286	1.55286	0.010	-4.00786	20.00000	Averaged
9 1,4-Dichlorobenzene	1.57240	1.50518	1.50518	0.010	-4.27491	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.75029	0.71844	0.71844	0.010	-4.24470	20.00000	Averaged
11 Benzyl alcohol	1.27309	1.17034	1.17034	0.010	-8.07122	20.00000	Averaged
12 1,2-Dichlorobenzene	1.46476	1.39986	1.39986	0.010	-4.43087	20.00000	Averaged
13 2-Methylphenol	1.60475	1.61052	1.61052	0.010	0.35911	20.00000	Averaged
15 4-Methylphenol	1.30908	1.30428	1.30428	0.010	-0.36657	20.00000	Averaged
16 N-Nitroso-di-n-propylamine	1.34902	1.32667	1.32667	0.050	-1.65682	20.00000	Averaged
$ 18 Nitrobenzene-d5	0.35198	0.34885	0.34885	0.010	-0.88667	20.00000	Averaged
22 2,4-Dimethylphenol	0.41677	0.43747	0.43747	0.010	4.96669	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.31056	0.30938	0.30938	0.010	-0.37752	20.00000	Averaged
30 Hexachlorobutadiene	0.12320	0.12121	0.12121	0.010	-1.61768	20.00000	Averaged
$ 36 2-Fluorobiphenyl	1.27137	1.22173	1.22173	0.010	-3.90384	20.00000	Averaged
39 Dimethylphthalate	1.51787	1.46505	1.46505	0.010	-3.48002	20.00000	Averaged
50 Diethylphthalate	1.54169	1.52800	1.52800	0.010	-0.88769	20.00000	Averaged
54 N-Nitrosodiphenylamine	0.67714	0.65748	0.65748	0.010	-2.90330	20.00000	Averaged
$ 55 2,4,6-Tribromophenol	0.05548	0.04911	0.04911	0.010	-11.48364	20.00000	Averaged
57 Hexachlorobenzene	0.21376	0.20318	0.20318	0.010	-4.95127	20.00000	Averaged
58 Pentachlorophenol	11.07390	12.50000	0.11962	0.005	-11.40879	20.00000	Quadratic
$ 66 Terphenyl-d14	0.56167	0.54566	0.54566	0.010	-2.84906	20.00000	Averaged
67 Butylbenzylphthalate	2.33278	2.50000	0.72159	0.010	-6.68871	20.00000	Quadratic
79 Dibenzo(a,h)anthracene	1.02096	1.08305	1.08305	0.010	6.08218	20.00000	Averaged
90 N-Nitrosodimethylamine	1.40633	1.38856	1.38856	0.010	-1.26358	20.00000	Averaged

Analytical Resources, Inc.

YZ 8/16/10

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/ic0813a.d
Lab Smp Id: IC0813A
Inj Date : 13-AUG-2010 10:17
Operator : yz Inst ID: nt2.i
Smp Info : IC0813A
Misc Info :
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 16-Aug-2010 11:06 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 13:06 Cal File: ic0813f.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.761	6.761	(0.783)	198070	2.50000	2.431
$	2 Phenol-d5	99	8.126	8.126	(0.941)	248193	2.50000	2.471
	3 Phenol	94	8.149	8.149	(0.944)	332009	2.50000	2.479
$	5 2-Chlorophenol-d4	132	8.346	8.346	(0.967)	184943	2.50000	2.449
	7 1,3-Dichlorobenzene	146	8.582	8.582	(0.994)	268325	2.50000	2.400
*	8 1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	138235	2.00000	
	9 1,4-Dichlorobenzene	146	8.652	8.652	(1.002)	260086	2.50000	2.393
$	10 1,2-Dichlorobenzene-d4	152	8.946	8.946	(1.036)	124142	2.50000	2.394
	11 Benzyl alcohol	79	8.859	8.859	(1.026)	1011133	12.5000	11.49
	12 1,2-Dichlorobenzene	146	8.946	8.946	(1.036)	241887	2.50000	2.389
	13 2-Methylphenol	108	9.067	9.067	(1.050)	278287	2.50000	2.509
	15 4-Methylphenol	108	9.282	9.282	(1.075)	225371	2.50000	2.491
	16 N-Nitroso-di-n-propylamine	70	9.313	9.313	(1.079)	229240	2.50000	2.459
$	18 Nitrobenzene-d5	82	9.544	9.544	(0.896)	214314	2.50000	2.478
	22 2,4-Dimethylphenol	107	10.112	10.112	(0.949)	268752	2.50000	2.624
	26 1,2,4-Trichlorobenzene	180	10.592	10.592	(0.995)	190066	2.50000	2.491
*	27 Naphthalene-d8	136	10.650	10.650	(1.000)	491469	2.00000	
	30 Hexachlorobutadiene	225	10.977	10.977	(1.031)	74463	2.50000	2.460
$	36 2-Fluorobiphenyl	172	12.428	12.428	(0.918)	321817	2.50000	2.402
	39 Dimethylphthalate	163	13.154	13.154	(0.972)	385909	2.50000	2.413
*	42 Acenaphthene-d10	162	13.535	13.535	(1.000)	210728	2.00000	
	50 Diethylphthalate	149	14.293	14.293	(1.056)	402491	2.50000	2.478
	54 N-Nitrosodiphenylamine	169	14.605	14.605	(0.916)	264076	2.50000	2.427
$	55 2,4,6-Tribromophenol	330	14.848	14.848	(0.931)	19724	2.50000	2.213
	57 Hexachlorobenzene	284	15.459	15.459	(0.969)	81607	2.50000	2.376
	58 Pentachlorophenol	266	15.752	15.752	(0.987)	240230	12.5000	11.07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 59 Phenanthrene-d10	188	15.952	15.952	(1.000)	321320	2.00000	
$ 66 Terphenyl-d14	244	18.582	18.582	(0.915)	219848	2.50000	2.429
67 Butylbenzylphthalate	149	19.427	19.427	(0.957)	290727	2.50000	2.333
* 69 Chrysene-d12	240	20.306	20.306	(1.000)	322320	2.00000	
* 77 Perylene-d12	264	22.584	22.584	(1.000)	256414	2.00000	
79 Dibenzo(a,h)anthracene	278	24.723	24.723	(1.095)	347138	2.50000	2.652
90 N-Nitrosodimethylamine	74	4.709	4.709	(0.545)	239934	2.50000	2.468

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic0813a.d
Lab Smp Id: IC0813A
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info:

Calibration Date: 13-AUG-2010
Calibration Time: 10:17

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	138235	0.00
27 Naphthalene-d8	491469	245734	982938	491469	0.00
42 Acenaphthene-d10	210728	105364	421456	210728	0.00
59 Phenanthrene-d10	321320	160660	642640	321320	0.00
69 Chrysene-d12	322320	161160	644640	322320	0.00
77 Perylene-d12	256414	128207	512828	256414	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.00
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.00
42 Acenaphthene-d10	13.54	13.04	14.04	13.54	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.00
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

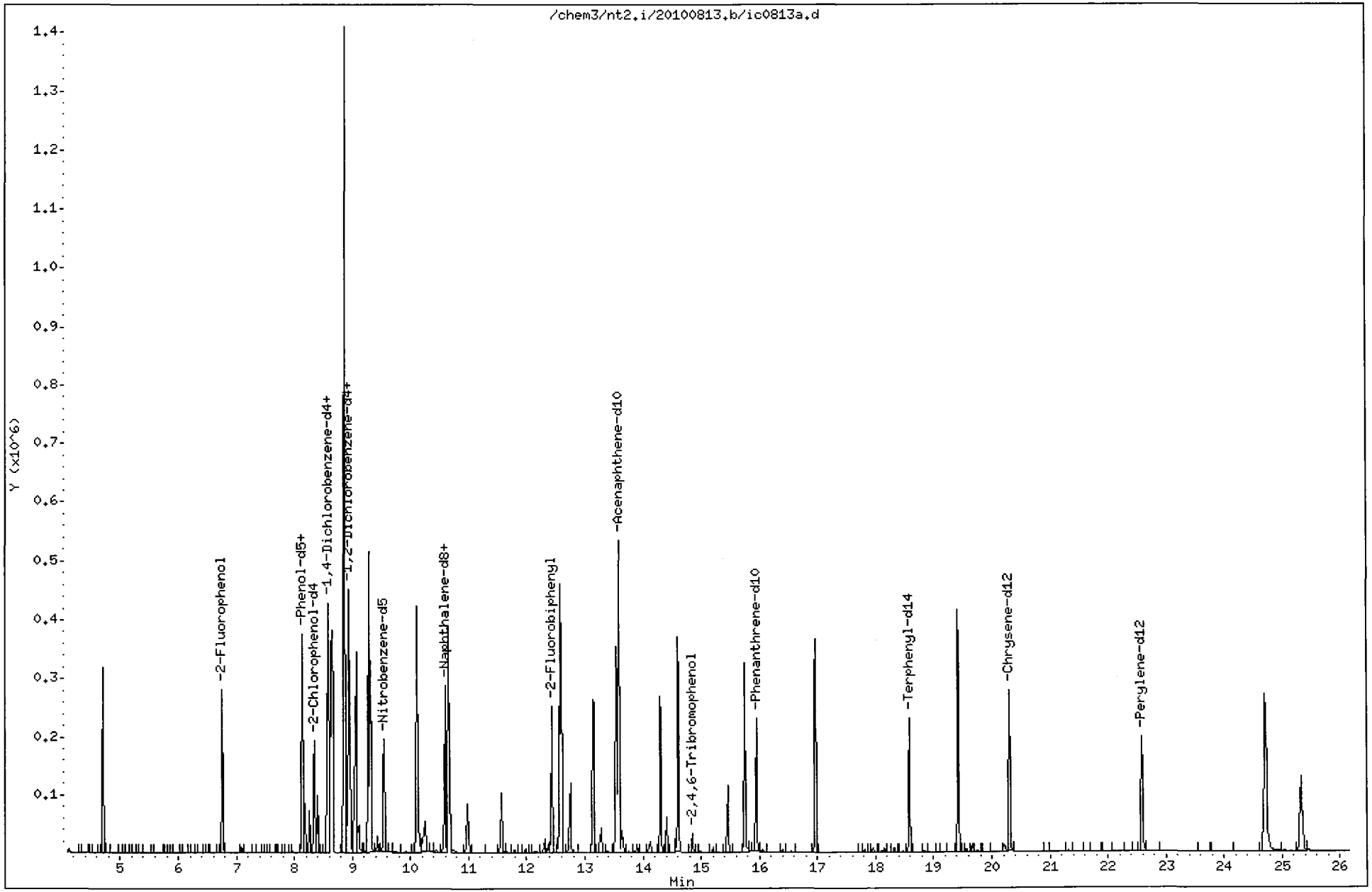
Data File: /chem3/nt2.i/20100813.b/ic0813a.d
Date : 13-AUG-2010 10:17
Client ID:
Sample Info: IC0813A

Instrument: nt2.i

Operator: yz
Column diameter: 0.25

Column phase: ZB-5msi

RT71:061452



Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

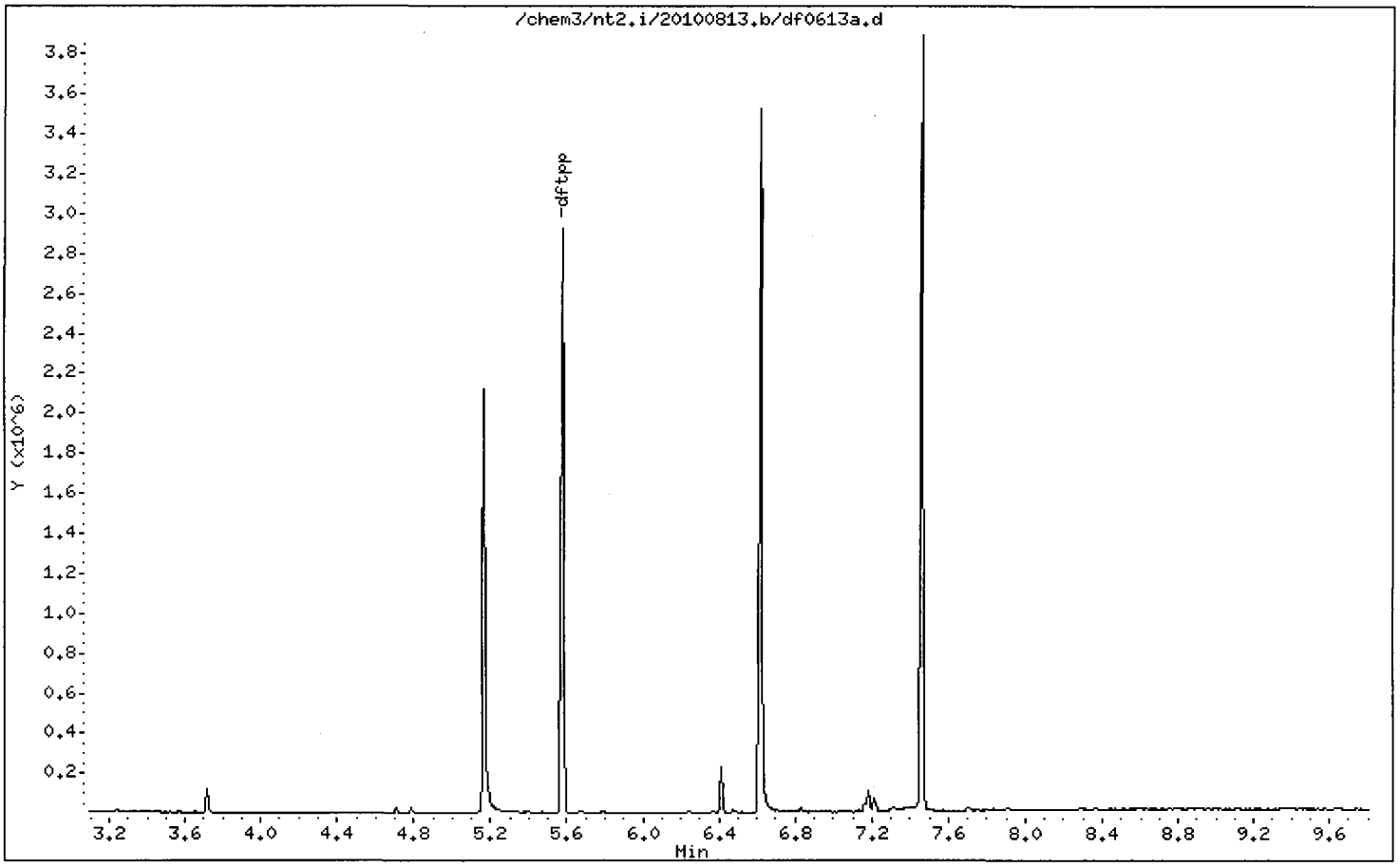
Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25



Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

Instrument: nt2.i

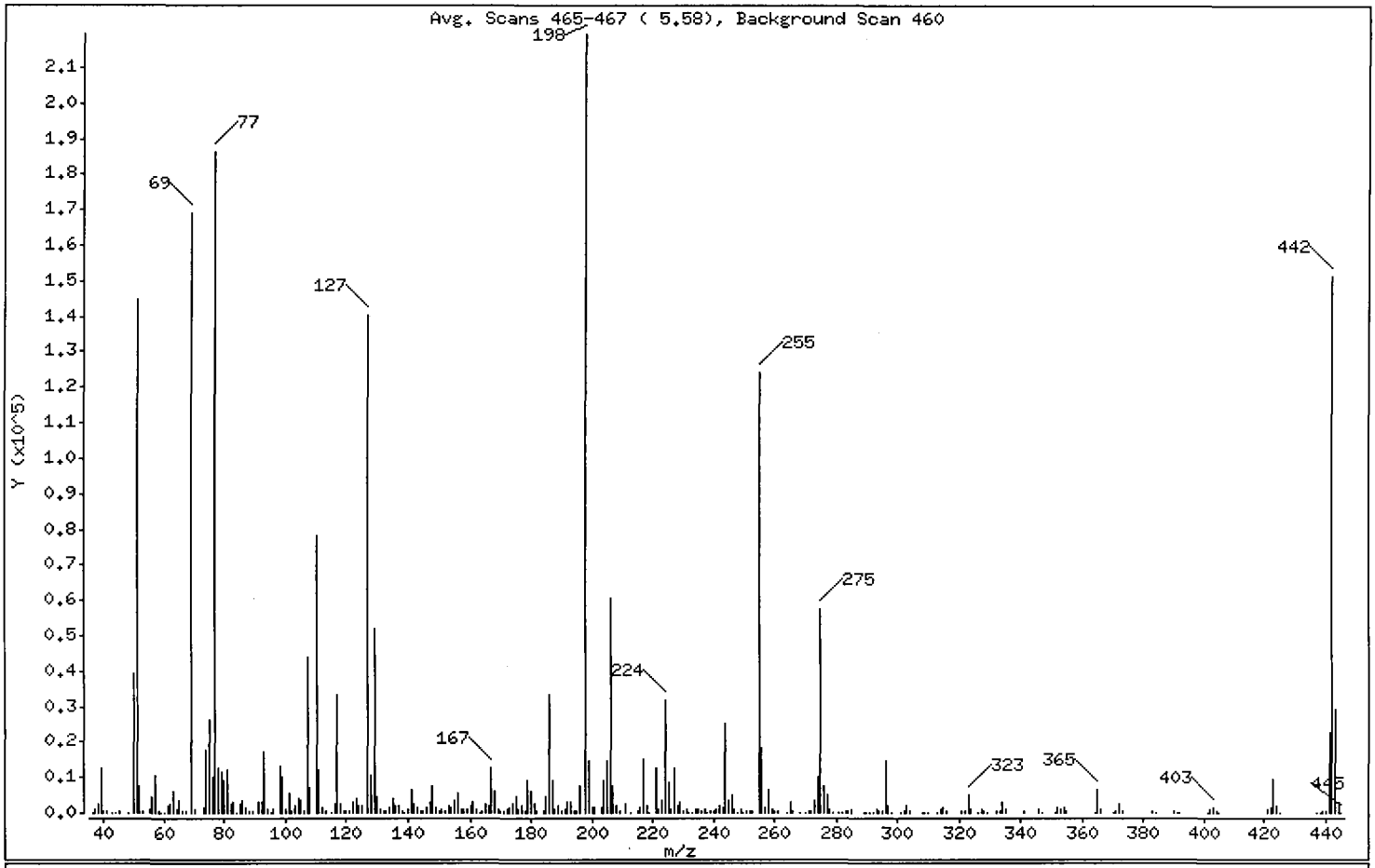
Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	66.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	76.95
70	Less than 2.00% of mass 69	0.39 (0.50)
127	10.00 - 80.00% of mass 198	63.86
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 60.00% of mass 198	26.28
365	Greater than 1.00% of mass 198	3.08
441	0.01 - 24.00% of mass 442	10.33 (14.97)
442	50.00 - 200.00% of mass 198	69.02
443	15.00 - 24.00% of mass 442	13.38 (19.38)

Date : 13-AUG-2010 10:01

Client ID: Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi Column diameter: 0.25

Data File: df0613a.d
Spectrum: Avg. Scans 465-467 (5.58), Background Scan 460
Location of Maximum: 198.00
Number of points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	11	123.00	4195	201.00	1297	290.00	141
37.00	840	124.00	1924	203.00	1638	291.00	97
38.00	2398	125.00	1894	204.00	8912	292.00	122
39.00	12522	127.00	140224	205.00	14883	293.00	1109
40.00	619	128.00	10852	206.00	60464	294.00	270
41.00	258	129.00	52024	207.00	7682	295.00	419
43.00	146	130.00	4420	208.00	2033	296.00	14748
44.00	73	131.00	995	209.00	622	297.00	2097
45.00	280	132.00	574	211.00	2330	298.00	140
48.00	72	133.00	315	213.00	151	301.00	89
50.00	39368	134.00	1573	215.00	742	302.00	362
51.00	145088	135.00	4098	216.00	1435	303.00	1992
52.00	7681	136.00	1899	217.00	14948	304.00	587
53.00	432	137.00	2025	218.00	2064	308.00	154
55.00	789	138.00	384	219.00	158	309.00	77
56.00	4427	139.00	224	221.00	12804	310.00	188
57.00	10595	140.00	841	222.00	1225	313.00	106
58.00	448	141.00	6699	223.00	3340	314.00	822
59.00	108	142.00	2367	224.00	31832	315.00	1734
60.00	75	143.00	1528	225.00	8761	316.00	747
61.00	2056	144.00	455	226.00	1005	321.00	499
62.00	2480	145.00	307	227.00	12631	322.00	265
63.00	6095	146.00	1371	228.00	1812	323.00	5004
64.00	922	147.00	3197	229.00	2946	324.00	924
65.00	3314	148.00	7642	230.00	494	326.00	78
66.00	359	149.00	1465	231.00	1124	327.00	893
67.00	446	150.00	533	232.00	113	328.00	509
69.00	168960	151.00	923	233.00	131	329.00	74
70.00	846	152.00	560	234.00	868	332.00	384
73.00	1476	153.00	2073	235.00	969	333.00	468
74.00	17624	154.00	1459	236.00	731	334.00	3140
75.00	26040	155.00	3631	237.00	1093	335.00	980
76.00	9846	156.00	5397	238.00	87	341.00	639
77.00	186112	157.00	1104	239.00	655	346.00	1222
78.00	12602	158.00	1201	240.00	412	347.00	178

Data File: /chem3/nt2.i/20100813.b/df0613a.d

Date : 13-AUG-2010 10:01

Client ID:

Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0613a.d
Spectrum: Avg. Scans 465-467 (5.58), Background Scan 460
Location of Maximum: 198.00
Number of points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	11360	159.00	973	241.00	875	351.00	93
80.00	9112	160.00	2100	242.00	1882	352.00	1457
81.00	11962	161.00	3084	243.00	1706	353.00	1035
82.00	2602	162.00	802	244.00	25200	354.00	1623
83.00	3158	163.00	211	245.00	3581	355.00	311
84.00	249	164.00	387	246.00	5162	364.00	69
85.00	2466	165.00	2462	247.00	990	365.00	6763
86.00	3287	166.00	1975	248.00	243	366.00	992
87.00	1665	167.00	12485	249.00	903	370.00	83
88.00	594	168.00	6266	250.00	176	371.00	418
89.00	364	169.00	1243	251.00	278	372.00	2591
91.00	2805	170.00	432	252.00	253	373.00	653
92.00	2896	171.00	550	253.00	711	383.00	584
93.00	17352	172.00	1084	255.00	124376	384.00	105
94.00	1260	173.00	1381	256.00	18104	390.00	336
95.00	89	174.00	2659	257.00	1560	391.00	87
96.00	966	175.00	4783	258.00	6671	392.00	67
98.00	12998	176.00	1187	259.00	1162	401.00	118
99.00	10346	177.00	2264	260.00	284	402.00	1083
100.00	891	178.00	752	261.00	304	403.00	1490
101.00	5633	179.00	8907	264.00	244	404.00	518
102.00	320	180.00	6170	265.00	2786	405.00	88
103.00	2091	181.00	2695	266.00	332	421.00	1176
104.00	3814	182.00	562	268.00	70	422.00	1352
105.00	3387	184.00	744	270.00	110	423.00	9661
106.00	558	185.00	4468	271.00	256	424.00	1770
107.00	43824	186.00	33224	272.00	390	425.00	75
108.00	6996	187.00	9223	273.00	3516	437.00	77
110.00	78456	188.00	1078	274.00	9937	438.00	191
111.00	12047	189.00	1947	275.00	57712	439.00	304
112.00	1485	190.00	257	276.00	7598	440.00	412
113.00	461	191.00	977	277.00	5137	441.00	22680
115.00	239	192.00	3026	278.00	849	442.00	151552
116.00	2289	193.00	3088	279.00	74	443.00	29376
117.00	33208	194.00	629	281.00	71	444.00	2846

Date : 13-AUG-2010 10:01

Client ID:

Instrument: nt2.i

Sample Info: DF0613A

Operator: yz

Column phase: ZB-5msi

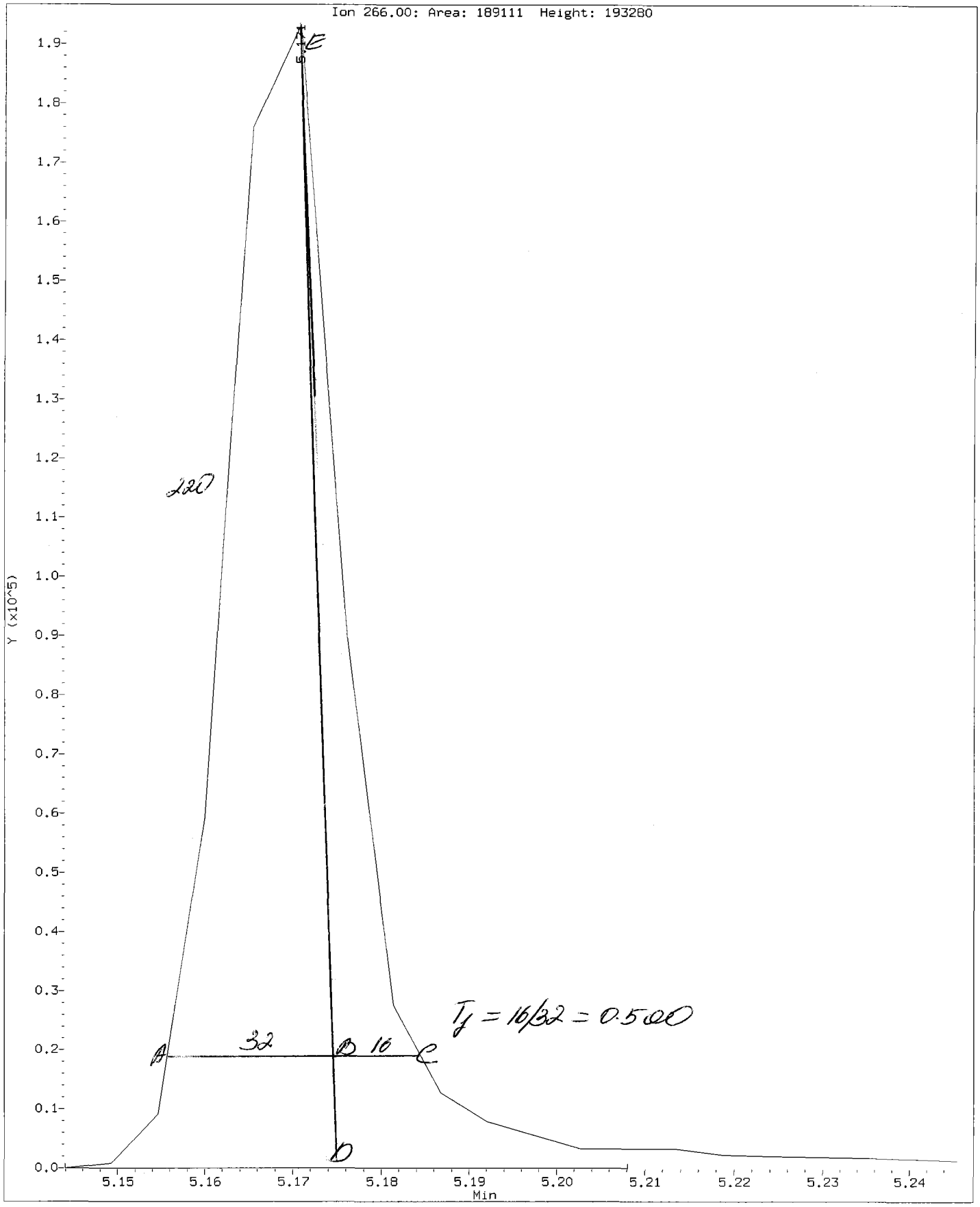
Column diameter: 0.25

Data File: df0613a.d
Spectrum: Avg. Scans 465-467 (5.58), Background Scan 460
Location of Maximum: 198.00
Number of points: 296

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	2376	195.00	552	282.00	82	445.00	98
119.00	466	196.00	7603	283.00	667		
120.00	601	198.00	219584	284.00	446		
121.00	283	199.00	14776	285.00	980		
122.00	2908	200.00	1322	289.00	98		

Data File: /chem3/nt2.i/20100813.b/ddt.b/df0613a.d
Injection Date: 13-AUG-2010 10:01
Instrument: nt2.i
Client Sample ID:

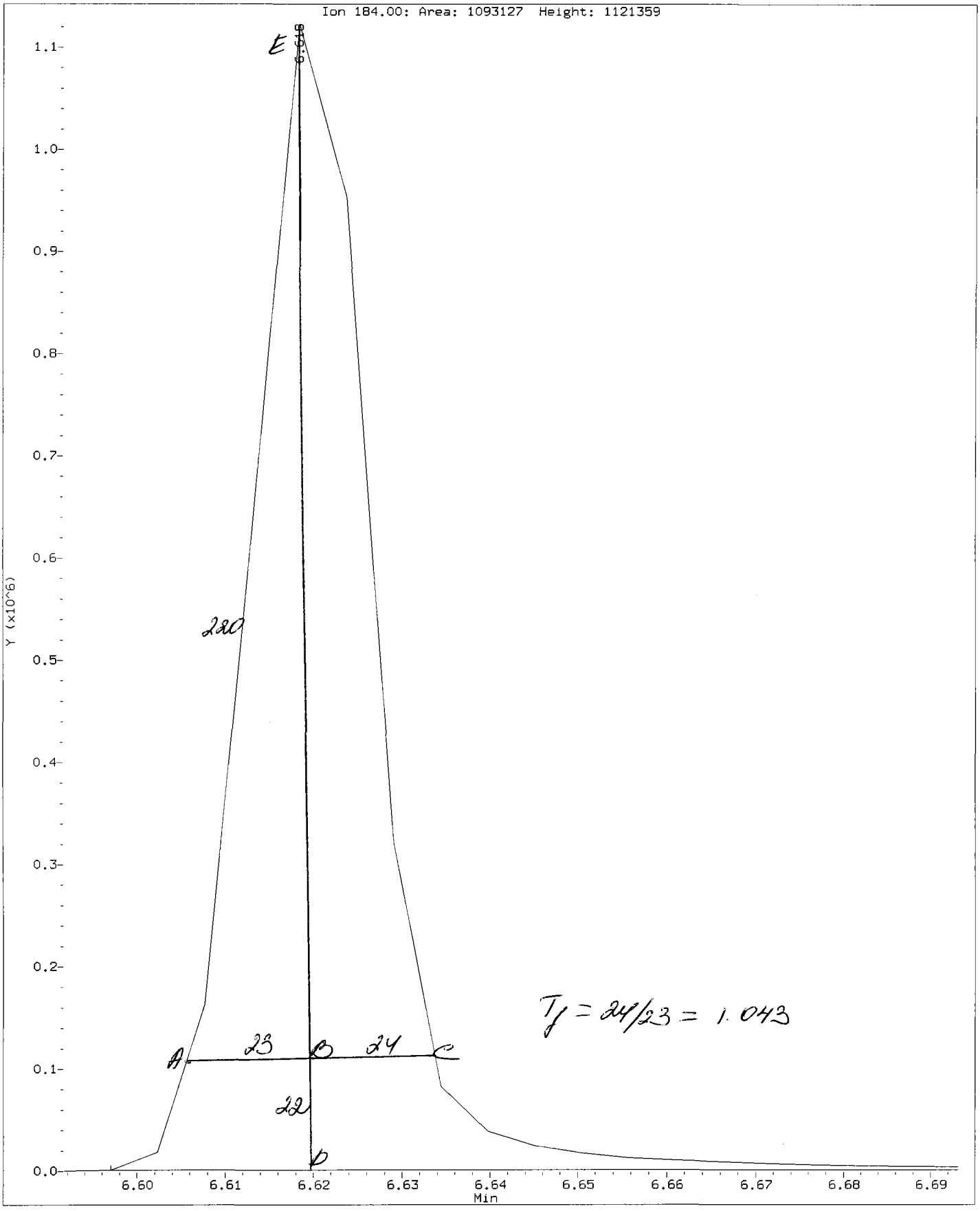
Compound: Pentachlorophenol
CAS Number: 87-86-5



RF71 : 00458

Data File: /chem3/nt2.i/20100813.b/ddt.b/df0613a.d
Injection Date: 13-AUG-2010 10:01
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



RF71 : 00459

Analytical Resources, Inc. yz 8/16/10

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/rf71mb.d
Lab Smp Id: RF71MBS1 Client Smp ID: RF71MBS1
Inj Date : 13-AUG-2010 14:14
Operator : yz Inst ID: nt2.i
Smp Info : RF71MBS1
Misc Info : 10-17570
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 16:09 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 13:06 Cal File: ic0813f.d
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	16.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1	2-Fluorophenol	112	6.784	6.754	(0.786)	189354	2.55506	159.7
$	2	Phenol-d5	99	8.126	8.125	(0.941)	216140	2.36589	147.9
	3	Phenol	94	8.149	8.148	(0.944)	27578	0.22641	14.15
$	5	2-Chlorophenol-d4	132	8.334	8.345	(0.965)	171133	2.49185	155.7
	7	1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8	1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	125710	2.00000	
	9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10	1,2-Dichlorobenzene-d4	152	8.929	8.945	(1.034)	82949	1.75891	109.9
	11	Benzyl alcohol	79	Compound Not Detected.					
	12	1,2-Dichlorobenzene	146	Compound Not Detected.					
	13	2-Methylphenol	108	Compound Not Detected.					
	15	4-Methylphenol	108	Compound Not Detected.					
	16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
$	18	Nitrobenzene-d5	82	9.528	9.543	(0.895)	153950	2.18149	136.3
	22	2,4-Dimethylphenol	107	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	10.650	10.651	(1.000)	400999	2.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	12.428	12.429	(0.918)	226459	1.87360	117.1
39	Dimethylphthalate	163	Compound Not Detected.					
* 42	Acenaphthene-d10	162	13.535	13.536	(1.000)	190139	2.00000	
50	Diethylphthalate	149	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol	330	14.848	14.849	(0.931)	18099	2.33589	146.0
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	15.952	15.953	(1.000)	279324	2.00000	
$ 66	Terphenyl-d14	244	18.582	18.582	(0.915)	196031	2.60318	162.7
67	Butylbenzylphthalate	149	Compound Not Detected.					
* 69	Chrysene-d12	240	20.306	20.306	(1.000)	268147	2.00000	
* 77	Perylene-d12	264	22.584	22.583	(1.000)	207397	2.00000	
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
90	N-Nitrosodimethylamine	74	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: rf71mb.d
Lab Smp Id: RF71MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Client Smp ID: RF71MBS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	125710	-9.06
27 Naphthalene-d8	491469	245734	982938	400999	-18.41
42 Acenaphthene-d10	210728	105364	421456	190139	-9.77
59 Phenanthrene-d10	321320	160660	642640	279324	-13.07
69 Chrysene-d12	322320	161160	644640	268147	-16.81
77 Perylene-d12	256414	128207	512828	207397	-19.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.00
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.00
42 Acenaphthene-d10	13.54	13.04	14.04	13.53	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.00
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

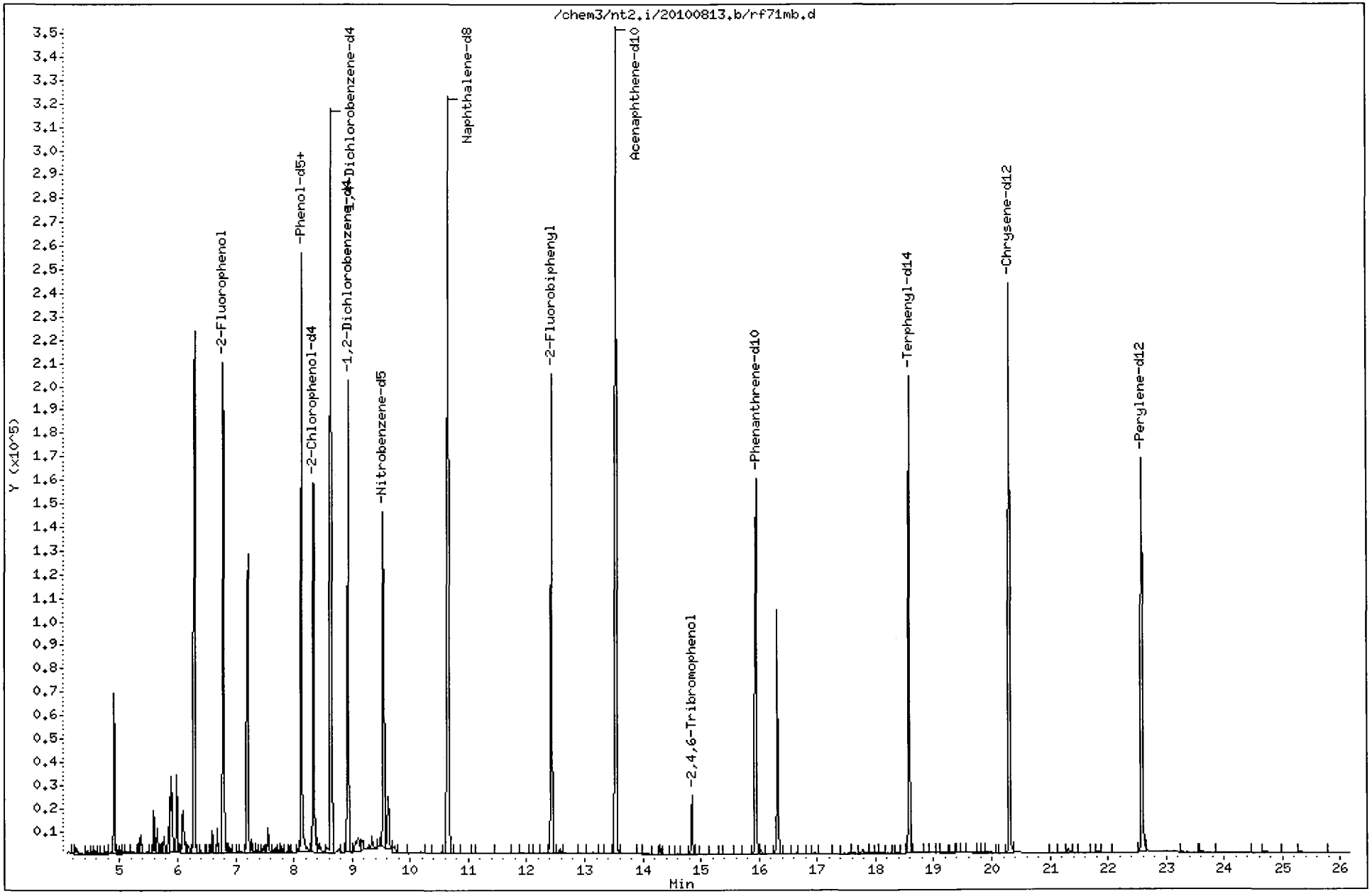
Client Name: Anchor QEA
Client SDG: RF71
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RF71MBS1
Client Smp ID: RF71MBS1
Level: LOW
Operator: yz
Data Type: MS DATA
SampleType: BLANK
SpikeList File: wind.spk
Quant Type: ISTD
Sublist File: wind.sub
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	234.4	159.7	68.13	30-160
$ 2 Phenol-d5	234.4	147.9	63.09	30-160
$ 5 2-Chlorophenol-d4	234.4	155.7	66.45	30-160
$ 10 1,2-Dichlorobenzen	156.3	109.9	70.36	30-160
$ 18 Nitrobenzene-d5	156.3	136.3	87.26	30-160
$ 36 2-Fluorobiphenyl	156.3	117.1	74.94	30-160
$ 55 2,4,6-Tribromophen	234.4	146.0	62.29	30-160
$ 66 Terphenyl-d14	156.3	162.7	104.13	30-160

Data File: /chem3/nt2.i/20100813.b/rf71mb.d
Date : 13-AUG-2010 14:14
Client ID: RF71MBS1
Sample Info: RF71MBS1
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt2.i
Operator: yz
Column diameter: 0.25

RF71.601GI



Analytical Resources, Inc.

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/rf71sb.d
Lab Smp Id: RF71LCSS1 Client Smp ID: RF71LCSS1
Inj Date : 13-AUG-2010 14:48
Operator : yz Inst ID: nt2.i
Smp Info : RF71LCSS1
Misc Info : 10-17570
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 16:09 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 13:06 Cal File: ic0813f.d
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	16.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 1	2-Fluorophenol	112	6.785	6.754	(0.786)	203083	2.66952	166.8
$ 2	Phenol-d5	99	8.126	8.125	(0.941)	236082	2.51742	157.3
3	Phenol	94	8.149	8.148	(0.944)	246585	1.97209	123.3
$ 5	2-Chlorophenol-d4	132	8.346	8.345	(0.967)	188151	2.66887	166.8
7	1,3-Dichlorobenzene	146	8.582	8.582	(0.994)	154987	1.48488	92.80
* 8	1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	129044	2.00000	
9	1,4-Dichlorobenzene	146	8.651	8.651	(1.002)	152710	1.50521	94.08
$ 10	1,2-Dichlorobenzene-d4	152	8.928	8.945	(1.034)	86756	1.79211	112.0
11	Benzyl alcohol	79	8.859	8.859	(1.026)	390044	4.74840	296.8
12	1,2-Dichlorobenzene	146	8.945	8.945	(1.036)	147529	1.56100	97.56
13	2-Methylphenol	108	9.067	9.066	(1.050)	171113	1.65260	103.3
15	4-Methylphenol	108	9.282	9.282	(1.075)	283527	3.35677	209.8
16	N-Nitroso-di-n-propylamine	70	9.313	9.313	(1.079)	138174	1.58745	99.22
$ 18	Nitrobenzene-d5	82	9.528	9.543	(0.895)	162920	2.28729	143.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	22 2,4-Dimethylphenol	107	10.114	10.113	(0.949)	109571	1.29915	81.20
	26 1,2,4-Trichlorobenzene	180	10.575	10.594	(0.993)	110090	1.75173	109.5
*	27 Naphthalene-d8	136	10.652	10.651	(1.000)	404735	2.00000	
	30 Hexachlorobutadiene	225	10.978	10.978	(1.031)	47929	1.92238	120.1
$	36 2-Fluorobiphenyl	172	12.427	12.429	(0.918)	237056	1.98896	124.3
	39 Dimethylphthalate	163	13.154	13.138	(0.972)	297139	2.08819	130.5
*	42 Acenaphthene-d10	162	13.535	13.536	(1.000)	187493	2.00000	
	50 Diethylphthalate	149	14.292	14.294	(1.056)	331334	2.29253	143.3
	54 N-Nitrosodiphenylamine	169	14.605	14.606	(0.915)	178326	1.87890	117.4
$	55 2,4,6-Tribromophenol	330	14.848	14.849	(0.931)	28023	3.60377	225.2
	57 Hexachlorobenzene	284	15.461	15.460	(0.969)	55399	1.84899	115.6
	58 Pentachlorophenol	266	15.738	15.737	(0.986)	28660	1.51639	94.77
*	59 Phenanthrene-d10	188	15.953	15.953	(1.000)	280326	2.00000	
$	66 Terphenyl-d14	244	18.582	18.582	(0.915)	208948	2.55341	159.6
	67 Butylbenzylphthalate	149	19.415	19.415	(0.956)	247666	2.19627	137.3
*	69 Chrysene-d12	240	20.306	20.306	(1.000)	291387	2.00000	
*	77 Perylene-d12	264	22.583	22.583	(1.000)	230705	2.00000	
	79 Dibenzo(a,h)anthracene	278	24.723	24.707	(1.095)	306129	2.59938	162.5
	90 N-Nitrosodimethylamine	74	4.756	4.702	(0.551)	130269	1.43564	89.73

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: rf71sb.d
Lab Smp Id: RF71LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Client Smp ID: RF71LCSS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	129044	-6.65
27 Naphthalene-d8	491469	245734	982938	404735	-17.65
42 Acenaphthene-d10	210728	105364	421456	187493	-11.03
59 Phenanthrene-d10	321320	160660	642640	280326	-12.76
69 Chrysene-d12	322320	161160	644640	291387	-9.60
77 Perylene-d12	256414	128207	512828	230705	-10.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.00
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.53	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.01
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: RF71LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

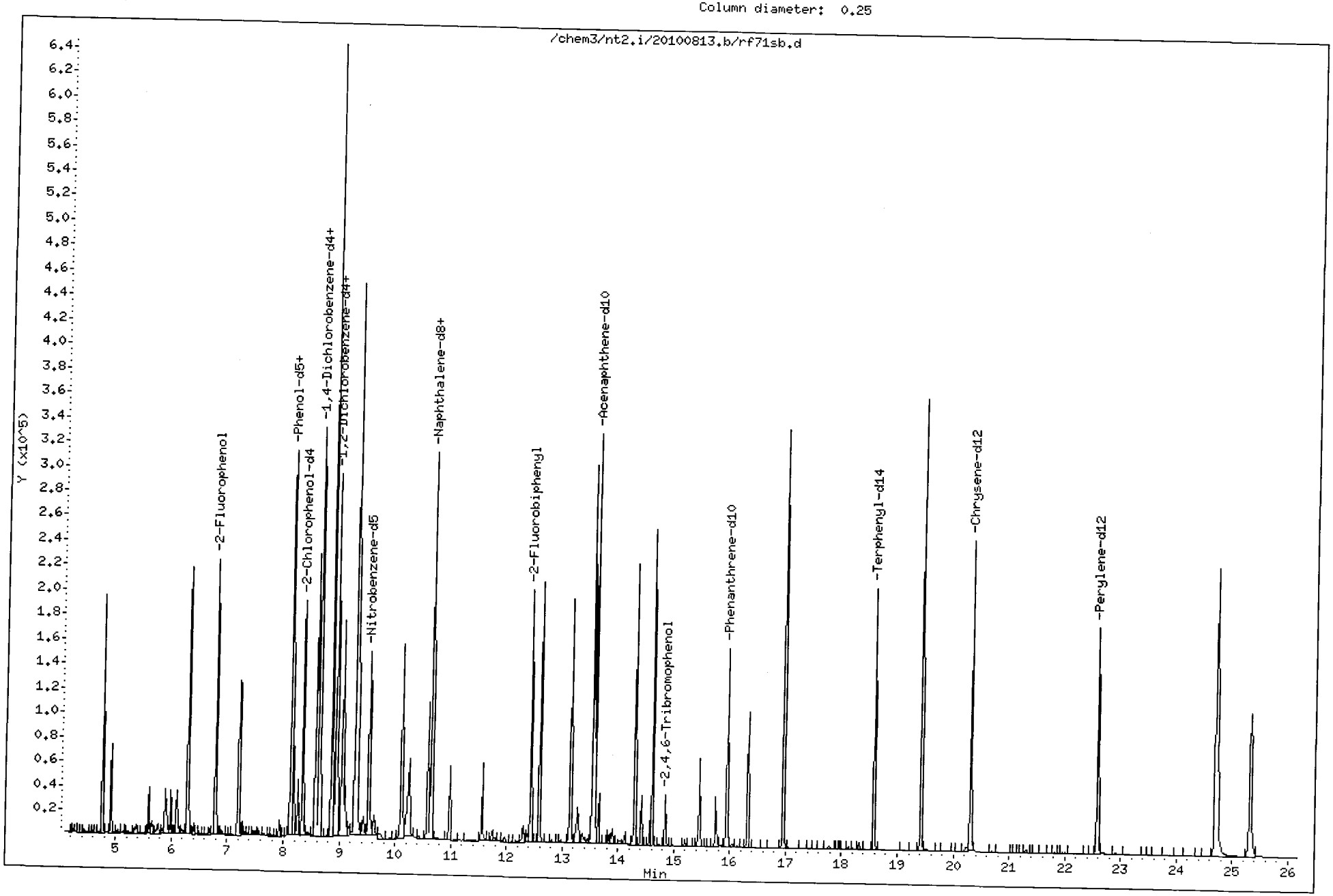
Client SDG: RF71
Fraction: SV
Client Smp ID: RF71LCSS1
Operator: yz
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	156.3	123.3	78.88	30-160
7 1,3-Dichlorobenzen	156.3	92.80	59.40	30-160
9 1,4-Dichlorobenzen	156.3	94.08	60.21	30-160
11 Benzyl alcohol	312.5	296.8	94.97	30-160
12 1,2-Dichlorobenzen	156.3	97.56	62.44	30-160
13 2-Methylphenol	156.3	103.3	66.10	30-160
15 4-Methylphenol	312.5	209.8	67.14	30-160
16 N-Nitroso-di-n-pro	156.3	99.22	63.50	30-160
22 2,4-Dimethylphenol	156.3	81.20	51.97	30-160
26 1,2,4-Trichloroben	156.3	109.5	70.07	30-160
30 Hexachlorobutadien	156.3	120.1	76.90	30-160
50 Diethylphthalate	156.3	143.3	91.70	30-160
54 N-Nitrosodiphenyla	156.3	117.4	75.16	30-160
57 Hexachlorobenzene	156.3	115.6	73.96	30-160
58 Pentachlorophenol	156.3	94.77	60.66	30-160
67 Butylbenzylphthala	156.3	137.3	87.85	30-160
79 Dibenzo(a,h)anthra	156.3	162.5	103.98	30-160
90 N-Nitrosodimethyla	156.3	89.73	57.43	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	234.4	166.8	71.19	30-160
$ 2 Phenol-d5	234.4	157.3	67.13	30-160
$ 5 2-Chlorophenol-d4	234.4	166.8	71.17	30-160
$ 10 1,2-Dichlorobenzen	156.3	112.0	71.68	30-160
$ 18 Nitrobenzene-d5	156.3	143.0	91.49	30-160
$ 36 2-Fluorobiphenyl	156.3	124.3	79.56	30-160
$ 55 2,4,6-Tribromophen	234.4	225.2	96.10	30-160
$ 66 Terphenyl-d14	156.3	159.6	102.14	30-160

Data File: /chem3/nt2.i/20100813.b/rf71sb.d
Date : 13-AUG-2010 14:48
Client ID: RF71LCSS1
Sample Info: RF71LCSS1
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt2.i
Operator: yz
Column diameter: 0.25



Analytical Resources, Inc.

YZ 8/16/10

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/rf71sbd.d
Lab Smp Id: RF71LCSDS1 Client Smp ID: RF71LCSDS1
Inj Date : 13-AUG-2010 15:22
Operator : yz Inst ID: nt2.i
Smp Info : RF71LCSDS1
Misc Info : 10-17570
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 16:09 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 13:06 Cal File: ic0813f.d
Als bottle: 11 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	16.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 1	2-Fluorophenol	112	6.791	6.754	(0.786)	205637	2.68455	167.8
$ 2	Phenol-d5	99	8.126	8.125	(0.941)	234962	2.48829	155.5
3	Phenol	94	8.149	8.148	(0.944)	244722	1.94377	121.5
$ 5	2-Chlorophenol-d4	132	8.334	8.345	(0.965)	188623	2.65722	166.1
7	1,3-Dichlorobenzene	146	8.583	8.582	(0.994)	157400	1.49765	93.60
* 8	1,4-Dichlorobenzene-d4	152	8.635	8.634	(1.000)	129935	2.00000	
9	1,4-Dichlorobenzene	146	8.652	8.651	(1.002)	160784	1.57392	98.37
$ 10	1,2-Dichlorobenzene-d4	152	8.929	8.945	(1.034)	87291	1.79079	111.9
11	Benzyl alcohol	79	8.860	8.859	(1.026)	417863	5.05218	315.8
12	1,2-Dichlorobenzene	146	8.946	8.945	(1.036)	152204	1.59942	99.96
13	2-Methylphenol	108	9.067	9.066	(1.050)	164883	1.58151	98.84
15	4-Methylphenol	108	9.282	9.282	(1.075)	289087	3.39913	212.4
16	N-Nitroso-di-n-propylamine	70	9.313	9.313	(1.079)	145768	1.66321	104.0
$ 18	Nitrobenzene-d5	82	9.528	9.543	(0.895)	166837	2.34582	146.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	22 2,4-Dimethylphenol	107	10.113	10.113	(0.949)	107976	1.28218	80.14
	26 1,2,4-Trichlorobenzene	180	10.593	10.594	(0.995)	112854	1.79842	112.4
*	27 Naphthalene-d8	136	10.651	10.651	(1.000)	404125	2.00000	
	30 Hexachlorobutadiene	225	10.977	10.978	(1.031)	48995	1.96811	123.0
$	36 2-Fluorobiphenyl	172	12.428	12.429	(0.918)	243585	2.00991	125.6
	39 Dimethylphthalate	163	13.138	13.138	(0.971)	293286	2.02700	126.7
*	42 Acenaphthene-d10	162	13.536	13.536	(1.000)	190648	2.00000	
	50 Diethylphthalate	149	14.293	14.294	(1.056)	337899	2.29926	143.7
	54 N-Nitrosodiphenylamine	169	14.606	14.606	(0.916)	193775	1.98920	124.3
$	55 2,4,6-Tribromophenol	330	14.849	14.849	(0.931)	28701	3.59610	224.8
	57 Hexachlorobenzene	284	15.460	15.460	(0.969)	57134	1.85789	116.1
	58 Pentachlorophenol	266	15.737	15.737	(0.986)	27155	1.39986	87.49
*	59 Phenanthrene-d10	188	15.952	15.953	(1.000)	287721	2.00000	
$	66 Terphenyl-d14	244	18.582	18.582	(0.915)	208114	2.55740	159.8
	67 Butylbenzylphthalate	149	19.415	19.415	(0.956)	246576	2.19883	137.4
*	69 Chrysene-d12	240	20.306	20.306	(1.000)	289771	2.00000	
*	77 Perylene-d12	264	22.584	22.583	(1.000)	226471	2.00000	
	79 Dibenzo(a,h)anthracene	278	24.723	24.707	(1.095)	309231	2.67481	167.2
	90 N-Nitrosodimethylamine	74	4.762	4.702	(0.552)	137116	1.50074	93.80

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: rf71sbd.d
Lab Smp Id: RF71LCSDS1
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Client Smp ID: RF71LCSDS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	129935	-6.00
27 Naphthalene-d8	491469	245734	982938	404125	-17.77
42 Acenaphthene-d10	210728	105364	421456	190648	-9.53
59 Phenanthrene-d10	321320	160660	642640	287721	-10.46
69 Chrysene-d12	322320	161160	644640	289771	-10.10
77 Perylene-d12	256414	128207	512828	226471	-11.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.01
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.54	0.00
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.00
69 Chrysene-d12	20.31	19.81	20.81	20.31	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: RF71LCSDS1
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

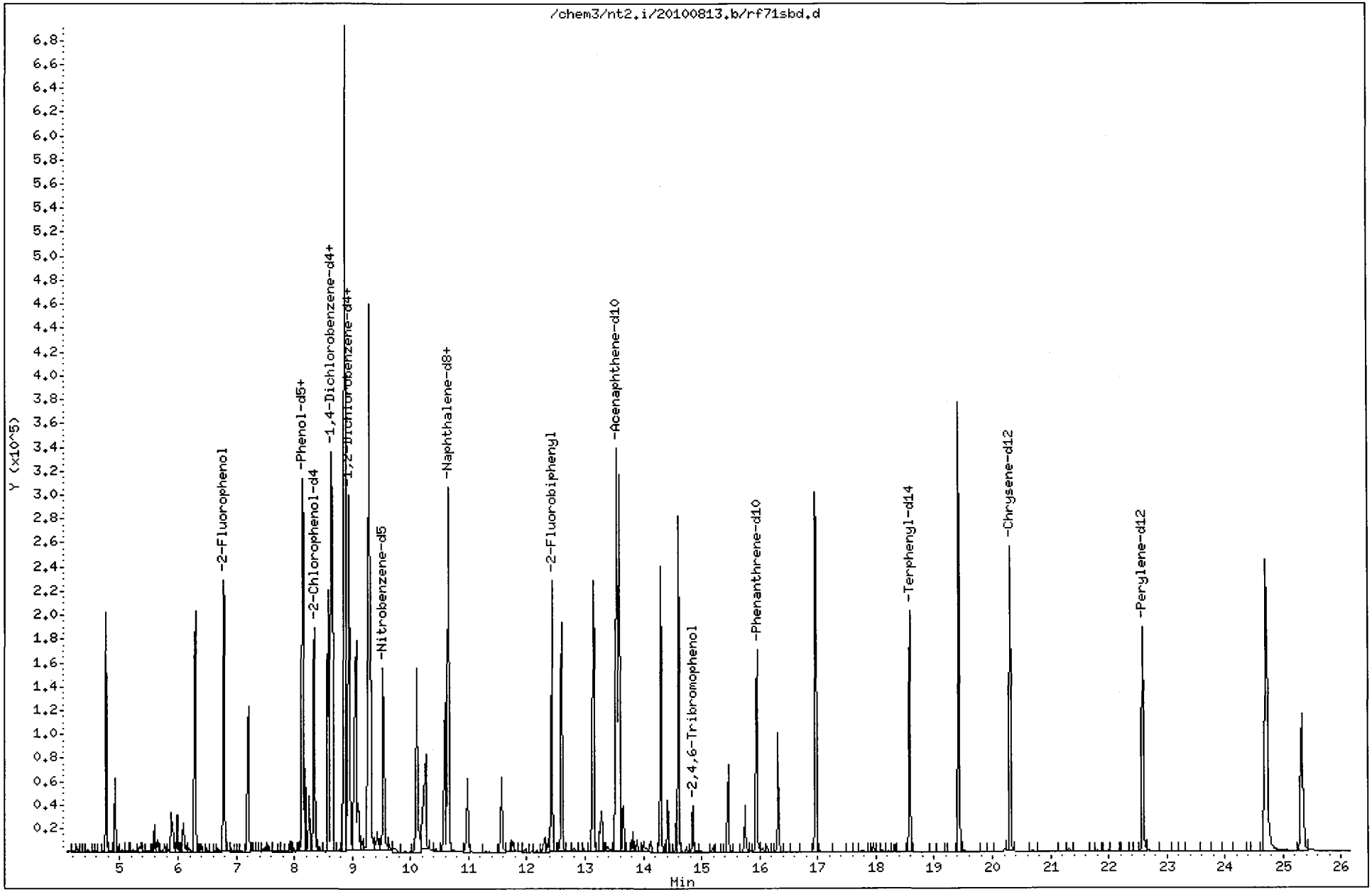
Client SDG: RF71
Fraction: SV
Client Smp ID: RF71LCSDS1
Operator: yz
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	156.3	121.5	77.75	30-160
7 1,3-Dichlorobenzen	156.3	93.60	59.91	30-160
9 1,4-Dichlorobenzen	156.3	98.37	62.96	30-160
11 Benzyl alcohol	312.5	315.8	101.04	30-160
12 1,2-Dichlorobenzen	156.3	99.96	63.98	30-160
13 2-Methylphenol	156.3	98.84	63.26	30-160
15 4-Methylphenol	312.5	212.4	67.98	30-160
16 N-Nitroso-di-n-pro	156.3	104.0	66.53	30-160
22 2,4-Dimethylphenol	156.3	80.14	51.29	30-160
26 1,2,4-Trichloroben	156.3	112.4	71.94	30-160
30 Hexachlorobutadien	156.3	123.0	78.72	30-160
50 Diethylphthalate	156.3	143.7	91.97	30-160
54 N-Nitrosodiphenyla	156.3	124.3	79.57	30-160
57 Hexachlorobenzene	156.3	116.1	74.32	30-160
58 Pentachlorophenol	156.3	87.49	55.99	30-160
67 Butylbenzylphthala	156.3	137.4	87.95	30-160
79 Dibenzo(a,h)anthra	156.3	167.2	106.99	30-160
90 N-Nitrosodimethyla	156.3	93.80	60.03	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	234.4	167.8	71.59	30-160
$ 2 Phenol-d5	234.4	155.5	66.35	30-160
$ 5 2-Chlorophenol-d4	234.4	166.1	70.86	30-160
$ 10 1,2-Dichlorobenzen	156.3	111.9	71.63	30-160
$ 18 Nitrobenzene-d5	156.3	146.6	93.83	30-160
$ 36 2-Fluorobiphenyl	156.3	125.6	80.40	30-160
$ 55 2,4,6-Tribromophen	234.4	224.8	95.90	30-160
$ 66 Terphenyl-d14	156.3	159.8	102.30	30-160

Data File: /chem3/nt2.i/20100813.b/rf71sbd.d
Date : 13-AUG-2010 15:22
Client ID: RF71LCSDS1
Sample Info: RF71LCSDS1
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt2.i
Operator: yz
Column diameter: 0.25



RF71 : 08171

Analytical Resources, Inc. yz 8/16/10

METHOD 8270D-SIM

Data file : /chem3/nt2.i/20100813.b/rf71a.d
Lab Smp Id: RF71A Client Smp ID: BW-07-SC-COMP-10072
Inj Date : 13-AUG-2010 15:56
Operator : yz Inst ID: nt2.i
Smp Info : RF71A
Misc Info : 10-17570
Comment :
Method : /chem3/nt2.i/20100813.b/SIMABN.m
Meth Date : 13-Aug-2010 16:09 yev Quant Type: ISTD
Cal Date : 13-AUG-2010 13:06 Cal File: ic0813f.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	27.18000	Weight of sample extracted (g)
M	39.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1	2-Fluorophenol	112	6.816	6.754	(0.789)	192382	2.67679	161.4
$ 2	Phenol-d5	99	8.137	8.125	(0.942)	228640	2.58069	155.7
3	Phenol	94	8.148	8.148	(0.944)	91581	0.77528 B NFA	46.76
$ 5	2-Chlorophenol-d4	132	8.345	8.345	(0.967)	178717	2.68335	161.8
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	8.634	8.634	(1.000)	121912	2.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	8.928	8.945	(1.034)	77430	1.69303	102.1
11	Benzyl alcohol	79	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
15	4-Methylphenol	108	9.282	9.282	(1.075)	47633	0.59693 NFA	36.00
16	N-Nitroso-di-n-propylamine	70	9.343	9.313	(1.082)	18729	0.22776 Y NFD	13.74(M)
$ 18	Nitrobenzene-d5	82	9.528	9.543	(0.895)	173230	2.49563	150.5(M)
22	2,4-Dimethylphenol	107	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	10.651	10.651	(1.000)	394421	2.00000	
	30 Hexachlorobutadiene	225	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	12.427	12.429	(0.918)	249135	2.11128	127.3
	39 Dimethylphthalate	163	Compound Not Detected.					
*	42 Acenaphthene-d10	162	13.534	13.536	(1.000)	185630	2.00000	
	50 Diethylphthalate	149	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	14.618	14.606	(0.916)	13621	0.13867	8.364
$	55 2,4,6-Tribromophenol	330	14.849	14.849	(0.931)	34855	4.33092	261.2
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.953	15.953	(1.000)	290129	2.00000	
$	66 Terphenyl-d14	244	18.593	18.582	(0.914)	238498	2.60006	156.8
	67 Butylbenzylphthalate	149	19.426	19.415	(0.955)	38710	0.30240	18.24
*	69 Chrysene-d12	240	20.336	20.306	(1.000)	326628	2.00000	
*	77 Perylene-d12	264	22.629	22.583	(1.000)	206741	2.00000	
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: rf71a.d
Lab Smp Id: RF71A
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

Calibration Date: 13-AUG-2010
Calibration Time: 10:17
Client Smp ID: BW-07-SC-COMP-10
Level: LOW
Sample Type: Sediment

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138235	69118	276470	121912	-11.81
27 Naphthalene-d8	491469	245734	982938	394421	-19.75
42 Acenaphthene-d10	210728	105364	421456	185630	-11.91
59 Phenanthrene-d10	321320	160660	642640	290129	-9.71
69 Chrysene-d12	322320	161160	644640	326628	1.34
77 Perylene-d12	256414	128207	512828	206741	-19.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.63	8.13	9.13	8.63	0.00
27 Naphthalene-d8	10.65	10.15	11.15	10.65	0.01
42 Acenaphthene-d10	13.54	13.04	14.04	13.53	-0.01
59 Phenanthrene-d10	15.95	15.45	16.45	15.95	0.01
69 Chrysene-d12	20.31	19.81	20.81	20.34	0.15
77 Perylene-d12	22.58	22.08	23.08	22.63	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

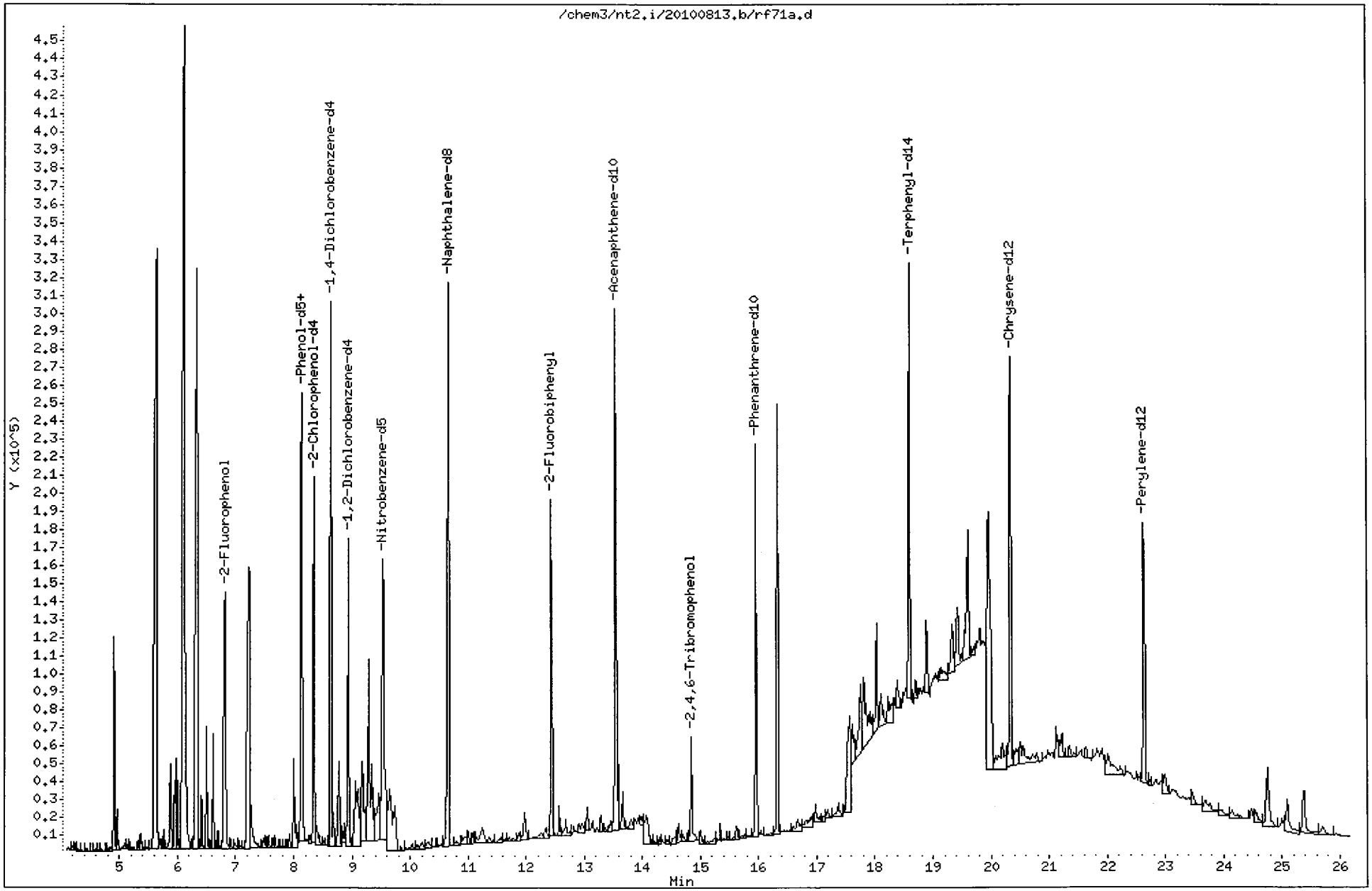
Client Name: Anchor QEA
Client SDG: RF71
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RF71A
Client Smp ID: BW-07-SC-COMP-10072
Level: LOW
Operator: yz
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: wind.spk
Quant Type: ISTD
Sublist File: wind.sub
Method File: /chem3/nt2.i/20100813.b/SIMABN.m
Misc Info: 10-17570

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	226.2	161.4	71.38	30-160
$ 2 Phenol-d5	226.2	155.7	68.82	30-160
$ 5 2-Chlorophenol-d4	226.2	161.8	71.56	30-160
$ 10 1,2-Dichlorobenzen	150.8	102.1	67.72	30-160
$ 18 Nitrobenzene-d5	150.8	150.5	99.83	30-160
$ 36 2-Fluorobiphenyl	150.8	127.3	84.45	30-160
$ 55 2,4,6-Tribromophen	226.2	261.2	115.49	30-160
$ 66 Terphenyl-d14	150.8	156.8	104.00	30-160

Data File: /chem3/nt2.i/20100813.b/rf71a.d
Date : 13-AUG-2010 15:56
Client ID: BW-07-SC-COMP-10072
Sample Info: RF71A
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt2.i
Operator: yz
Column diameter: 0.25

RF71 : 98175



Data File: /chem3/nt2.i/20100813.b/rf71a.d

Date : 13-AUG-2010 15:56

Client ID: BW-07-SC-COMP-10072

Instrument: nt2.i

Sample Info: RF71A

Volume Injected (uL): 2.0

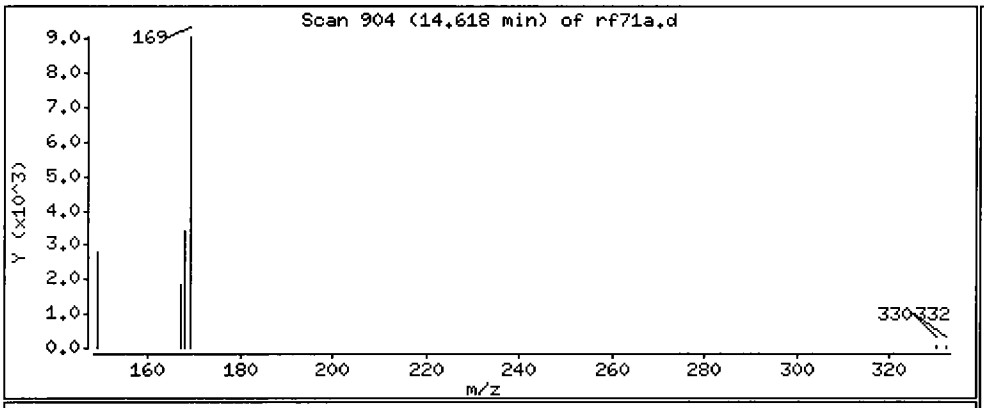
Operator: yz

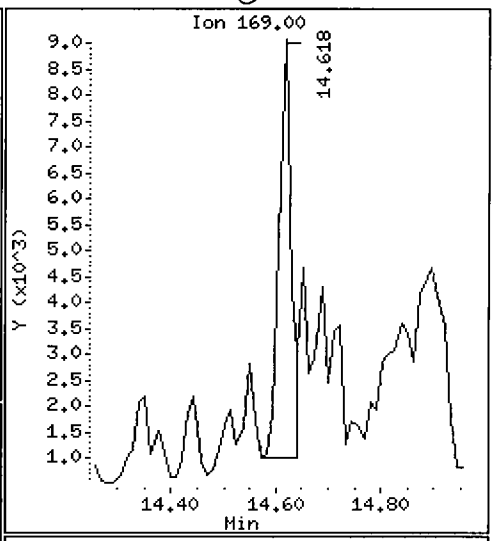
Column phase: ZB-5msi

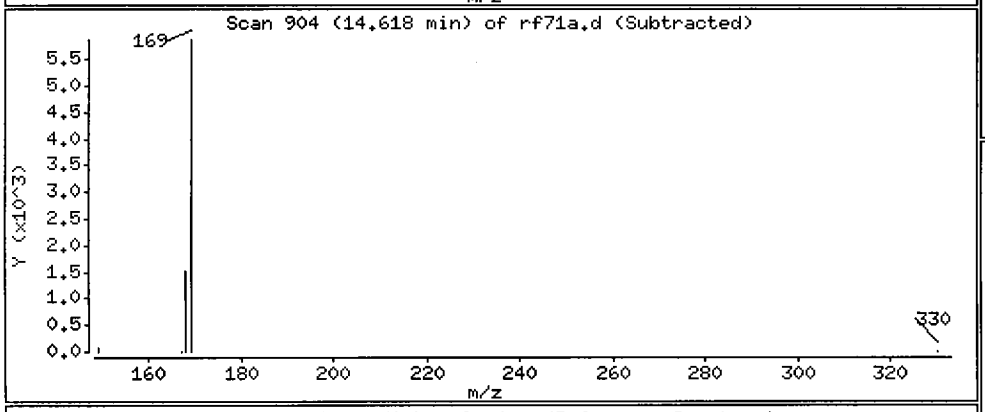
Column diameter: 0.25

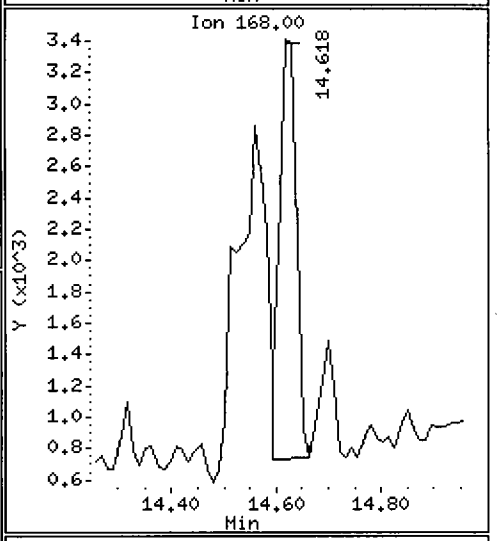
54 N-Nitrosodiphenylamine

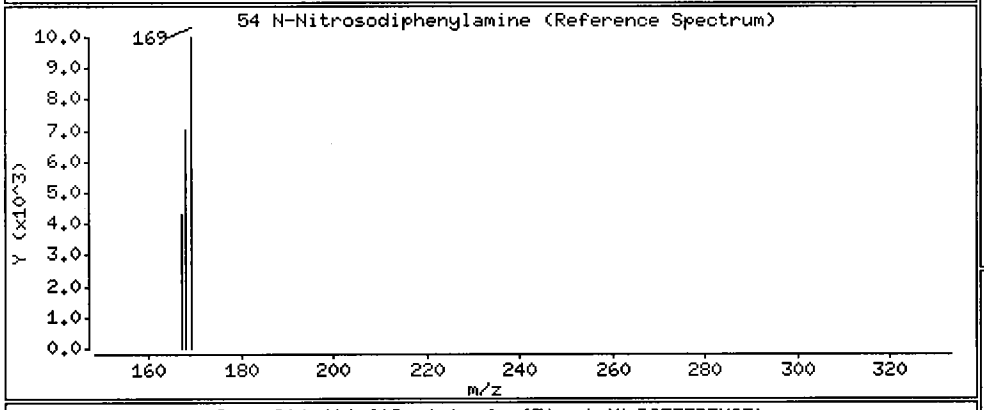
Concentration: 8.364 ug/kg

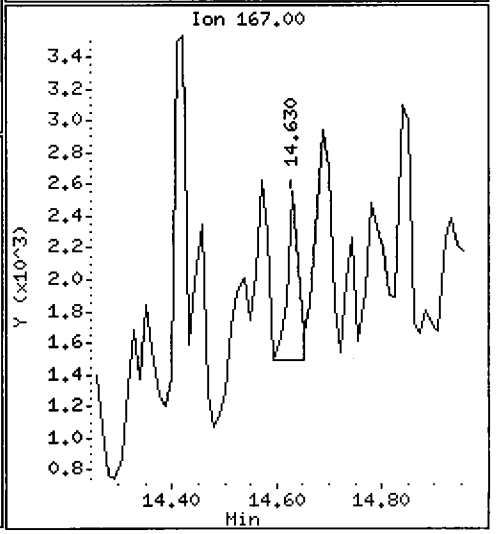


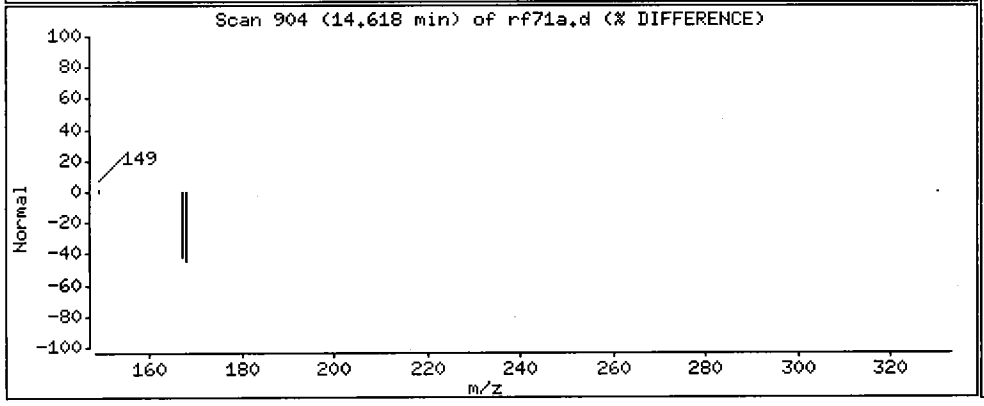












Data File: /chem3/nt2.i/20100813.b/rf71a.d

Date : 13-AUG-2010 15:56

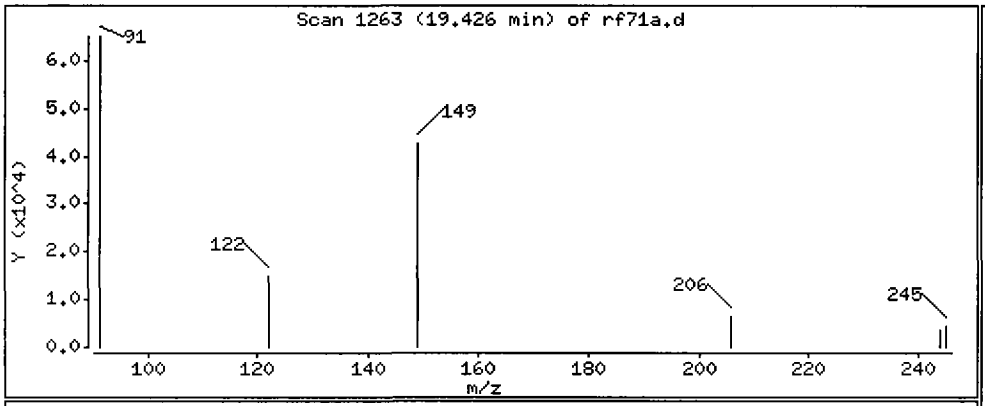
Client ID: BW-07-SC-COMP-10072 Instrument: nt2.i

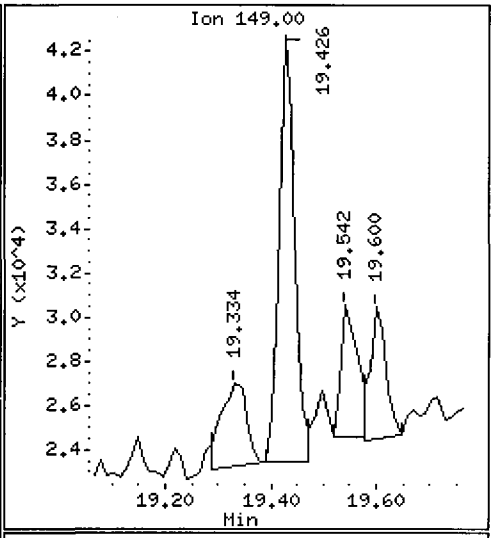
Sample Info: RF71A

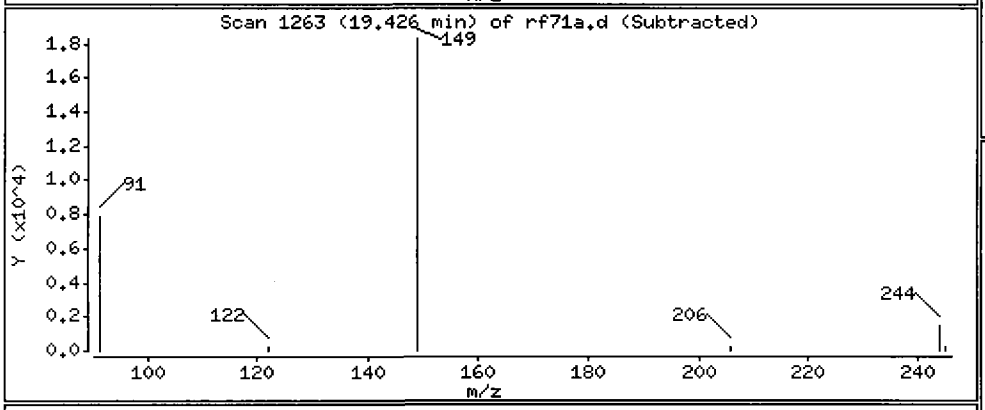
Volume Injected (uL): 2.0 Operator: yz

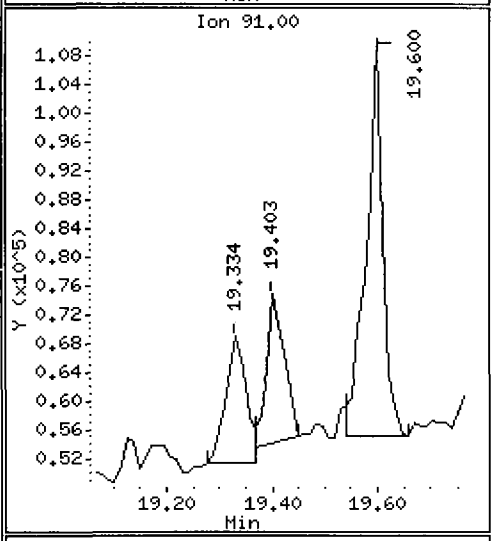
Column phase: ZB-5msi Column diameter: 0.25

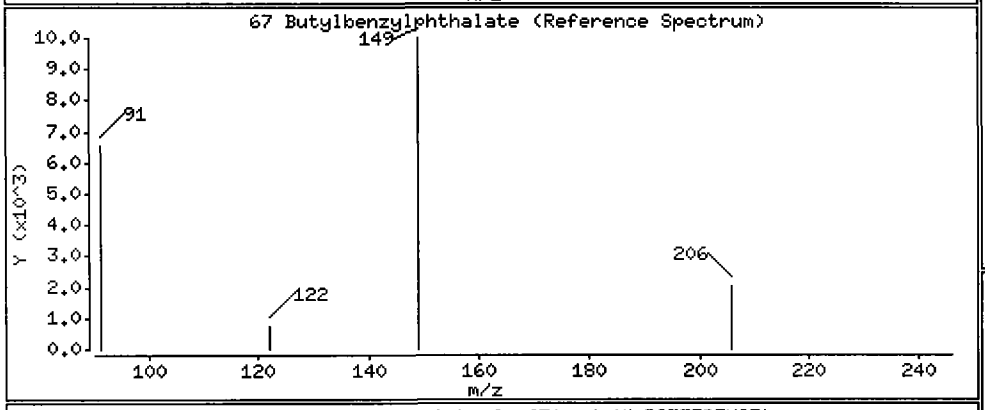
67 Butylbenzylphthalate Concentration: 18.24 ug/kg

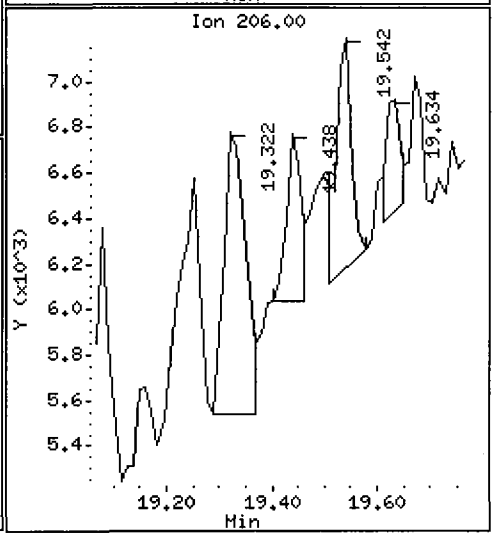


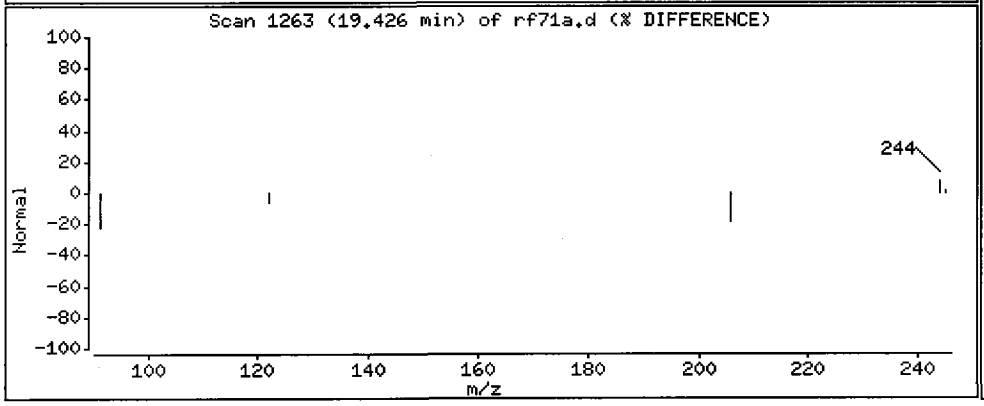






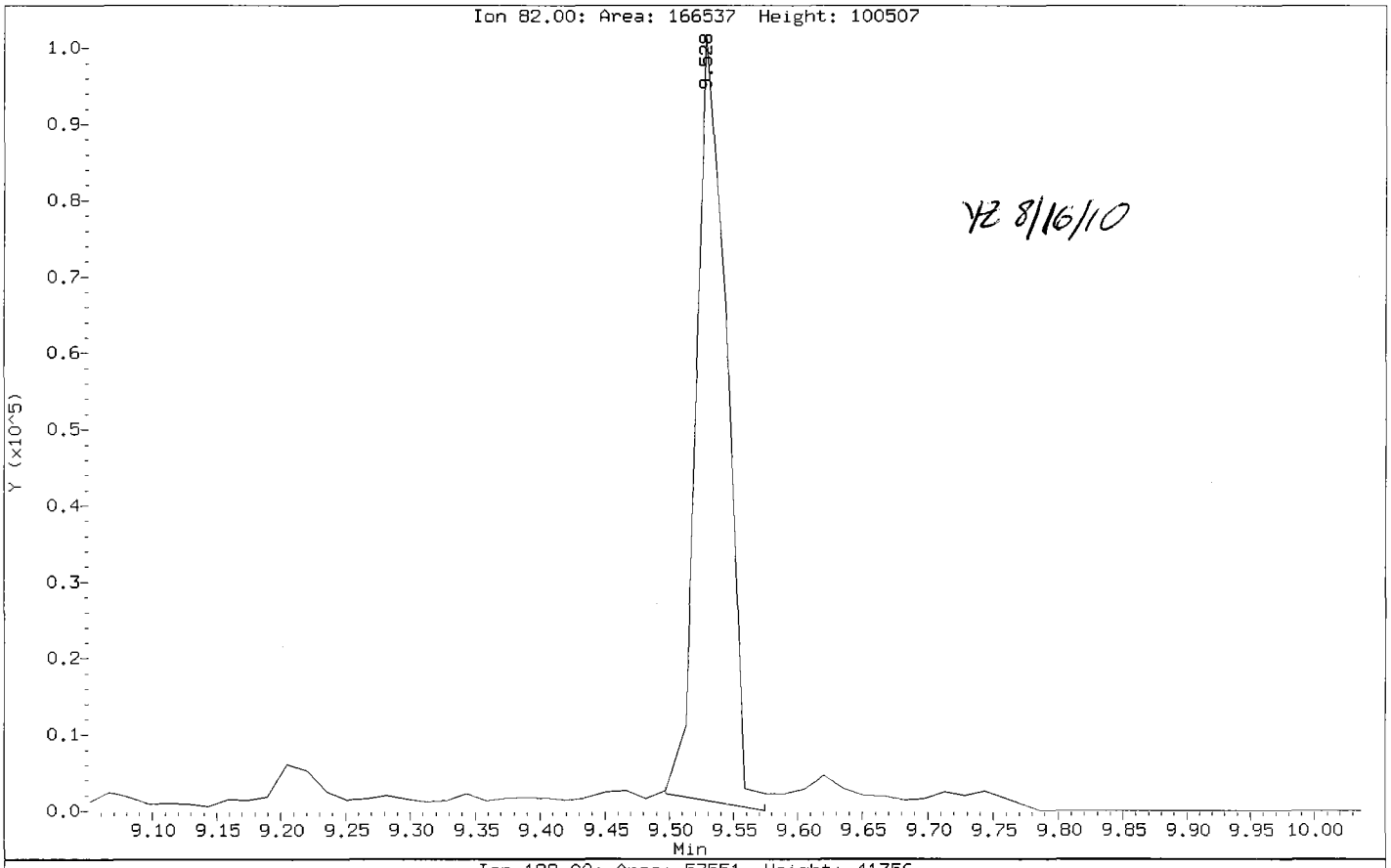




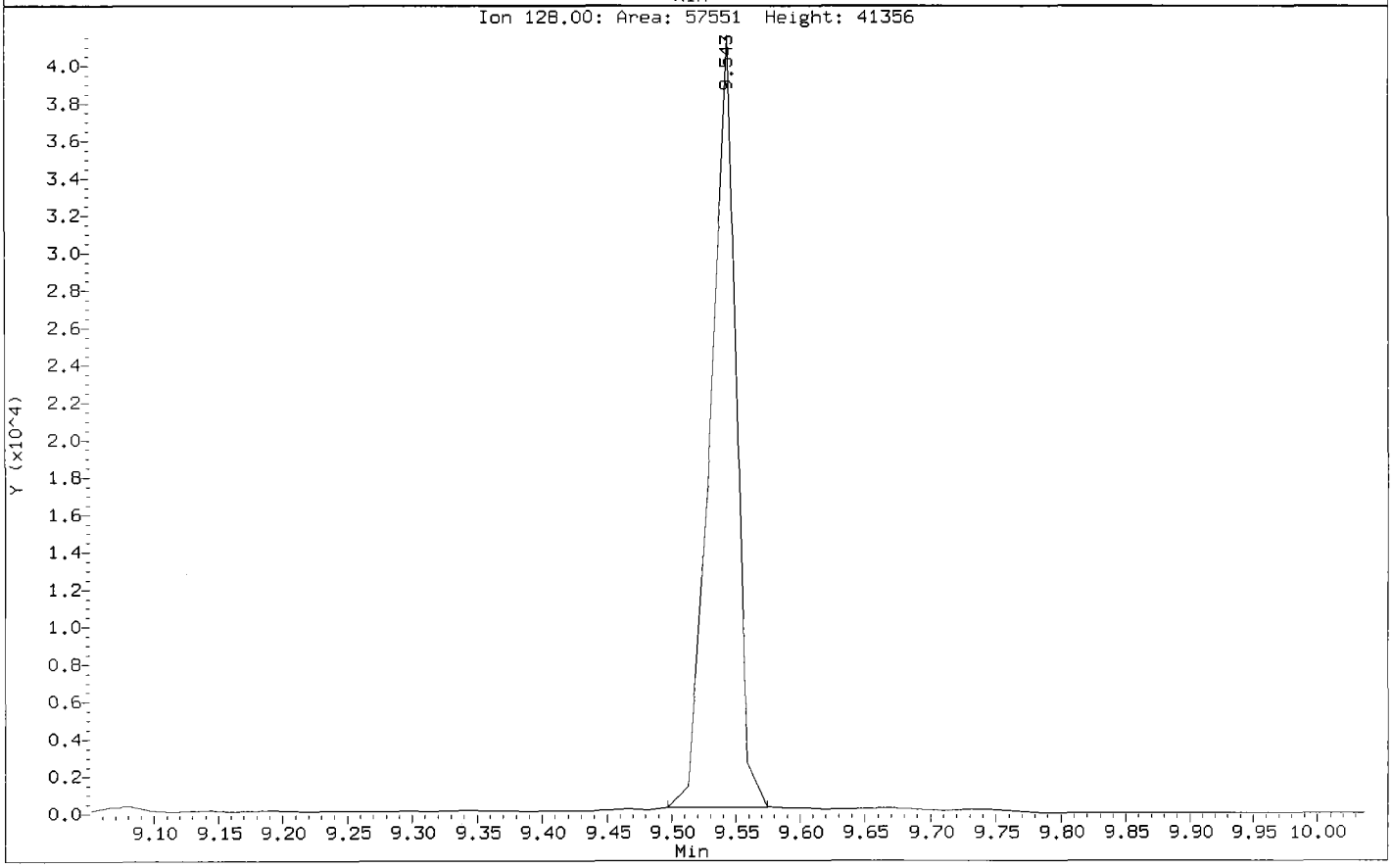


Data File: /chem3/nt2.i/20100813.b/rf71a.d
Injection Date: 13-AUG-2010 15:56
Instrument: nt2.i
Client Sample ID: BW-07-SC-COMP-10072

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

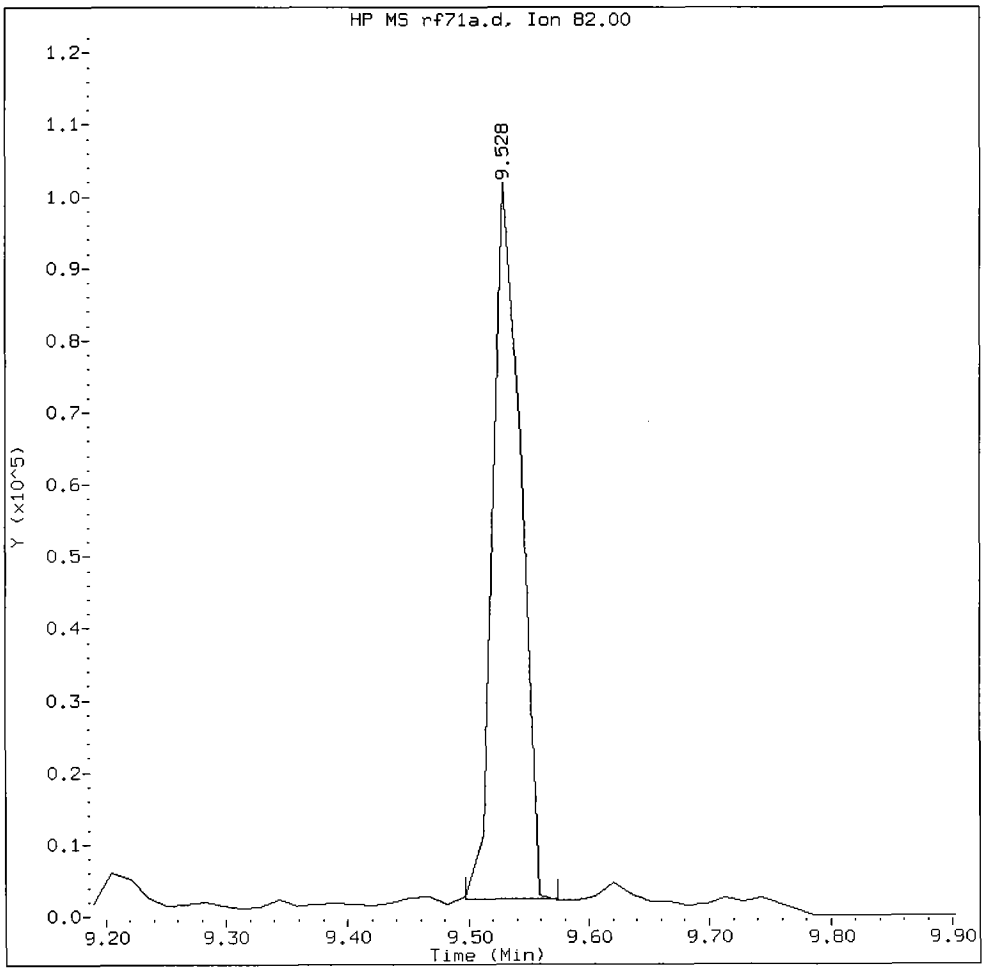


YZ 8/16/10



RF71A, /chem3/nt2.i/20100813.b/rf71a.d

Nitrobenzene-d5 Amount: 2.50 Area: 173230



MANUAL INTEGRATION for Nitrobenzene-d5

1. Baseline correction ✓
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: YZ Date: 8/16/10

Dioxin Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin / Furan Bench Sheet
Method 8290 / 1613B

ARI Client ID:	RF71		
ARI Project ID:	Bay Wood	**Extraction Date:**	7/29/10
Matrix (circle one)	Soil (Sediment) Oil Tissue Water/SPE Water/Sep		
Extraction Method	Start Time: 1100	End Time:	
Microwave			
Soxhlet	1100	0100	

Reagent / Standard	NA	ID / Lot Number	Initials	Date
Analytical Balance		SN 24650344	JW	7/29/10
Acetone		I5653	↓	↓
Toluene		I5561	↓	↓
CH_2Cl_2		I5549	↓	↓
EtOH	NA			
MeOH	NA			
Hexane		I5628	JW	7/30/10
H_2SO_4		I5584	↓	↓
Na_2SO_4		7-08-10	↓	↓
Glasswool		4-29-10	↓	↓
10 % $AgNO_3$	NA			
Basic Silica		G439	JW	7/30/10
Acid Silica		G472	↓	↓
0% Silica		I5308	↓	↓
Activated Florisil		G515	↓	↓
Dual Carbon Column	NA			
Alumina	NA			
Nonane		I5167	JW	7/30/10
Purified Sand		I0522A	JW	7/29/10

Reagent / Standard	Vol	ID / Lot Number	Initials	Date	Witness
Recovery Standard	1.0 mL	1754-2	JW	7/29/10	MW
Ongoing Precision /Recovery	20 µL	1696-2	JW	7/29/10	MW
Clean-up Standard	1.0 mL	1754-3	JW	7/30/10	MW
Internal Standard	10µL	I5343	VB	8/5/10	

Bottle ID	ARI Sample ID	Sample Weight (dry wt) or Volume	Acid Clean	Silica-Florisil	Silica-Carbon	Final Vol.	Comments
	RF71 MB	~~10.00g~~	Yes	Yes		10 uL	10.00g
	RF71 OPR	↓	↓	↓		↓	↓
1	RF71A	17.~~20~~g	↓	↓		↓	17.21g
Prep Analyst/Date			JW 7/30/10	JW 7/30/10		JW 7/30/10	

10-17570

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RF71

Client ID: Anchor QEA

Parameter:

Client Project: Bay Wood

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	JW/7/28/10
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☒ Clay (Difficult to homogenize/Mixed with Kitchen Aid)= A	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

Dioxin Raw Data
Initial Calibration

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

HR-GC/MS Analyst Notes / Corrective Action Log

ARI Project ID: _____ Client ID: _____

ARI SOP: **806S** (Dioxins)

Parameter(s): _____

Instrument: **AutoSpec01**

Curve Date: 7/29/10 Analysis Start Date: 7/29/10

Internal Standard Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
Extraction Std Recovery in Control?	YES / NO	IPR / OPR Recovery in Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- All targets < 20% RSD.
- ICV is second lot # from Wellington

Additional Details on Reverse: Yes / No

Analyst: VD **Date:** 8.5.10

Reviewer: _____ **Date:** 8/5/10

Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.:GC=CN10921030, MS=P764

Date: 7/29/10 Analysis: 8290A Analyst: [illegible]

GC Program: 8290B Column No: 955884 Column Type: RTX-Dioxin2

Instrument Tune (IPR): 10/8290B-1,2,3,4,5 Detector Voltage: 350

Resolution Check Files: 10:03, 21:38, 6:28, 13:25 Curve Date: 7/29/10

IS/SS	Ical/Ccal	LCS/ICV
	1729-2	
DS343	IS743-47	I4999

Compound name: 13C-1234-TCDD

#	Acq Date	Acq Time	Name	ID	Pre	RT	IS AREA	Comments
1	29-Jul-10	10:06:14	10072902	WIN	26.5	26.5	3020520	
1	29-Jul-10	11:43:00	10072903	BLANK	26.5			
2	29-Jul-10	12:43:20	10072904	CS1	26.5	26.6	2598426	
3	29-Jul-10	13:33:45	10072905	CS2	26.5	26.5	3030222	
4	29-Jul-10	14:24:48	10072906	CS3	26.5	26.5	3127397	
5	29-Jul-10	15:21:58	10072907	CS4	26.5	26.5	3130193	
6	29-Jul-10	16:12:16	10072908	CS5	26.5	26.5	3173075	
7	29-Jul-10	17:03:43	10072909	ICV	26.5	26.5	3619249	
8	29-Jul-10	17:54:59	10072910	TCDFS	26.5	26.5	11777	
9	29-Jul-10	18:46:33	10072911	BLANK	26.5			
1	29-Jul-10	19:37:49	10072912	CSL	26.5	26.6	2656093	
2	29-Jul-10	20:29:12	10072913	CS3	26.5	26.6	2972684	
3			10072914					
4	29-Jul-10	21:38:47	10072915	RE83M...	26.5			
5	29-Jul-10	22:29:10	10072916	RE83O...	26.5	26.5	5696433	
6	29-Jul-10	23:20:42	10072917	RE83C	26.5	26.5	4383803	
7	30-Jul-10	00:11:44	10072918	RE83D	26.5	26.5	5734523	
8	30-Jul-10	01:03:16	10072919	RE83E	26.5	26.5	5637507	
9	30-Jul-10	01:54:18	10072920	RE83M...	26.5	26.5	2692939	
10	30-Jul-10	02:45:26	10072921	RE83O...	26.5	26.5	3008650	
11	30-Jul-10	03:36:37	10072922	RE83A...	26.5	26.6	2808466	
12	30-Jul-10	04:27:44	10072923	RE83B...	26.5	26.5	2863394	
1	30-Jul-10	05:18:57	10072924	CS3	26.5	26.5	3011600	
2			10072925					
3	30-Jul-10	06:28:28	10072926	BLANK	26.5			
4	30-Jul-10	07:18:56	10072927	RD57MB	26.5	26.5	3003104	
5	30-Jul-10	08:10:06	10072928	RD57O...	26.5	26.5	3417148	
6	30-Jul-10	09:01:13	10072929	RD57AS	26.5	26.5	3275533	
7	30-Jul-10	09:52:26	10072930	RD9356	26.5	26.5	3453892	
8	30-Jul-10	10:43:32	10072931	KID165	26.5	26.5	3506213	
9	30-Jul-10	11:34:45	10072932	KIF045	26.5	26.5	3360196	
1	30-Jul-10	12:25:50	10072933	CS3	26.5	26.5	3075570	

NONE

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 10072902

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

8.4.10

Curve

WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS/DOCUMENTATION

EPA-1613CVS
U.S. EPA Method 1613
Calibration and Verification Solutions
plus
Supplemental Calibration Solutions
EPA-1613CSL & EPA-1613CS0.5

DESCRIPTION:

EPA-1613CVS is a series of 5 HRGC/HRMS calibration solutions containing native and mass-labelled chlorinated dibenzo-p-dioxin (PCDD) and dibenzofuran (PCDF) congeners in nonane.

PRODUCT CODES	LOT NUMBERS
EPA-1613CVS	*see below*
EPA-1613CS1	13CS11109 – IS744
EPA-1613CS2	13CS21109 – IS745
EPA-1613CS3	13CS31109
EPA-1613CS4	13CS41109 IS746
EPA-1613CS5	13CS51109 IS747

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that are ordered separately.

EPA-1613CS0.5	13CS0.51109
EPA-1613CSL	13CSL1109 – IS742
DATE PREPARED: (mm/dd/yyyy)	01/09/2010
LAST TESTED: (mm/dd/yyyy)	02/01/2010 (HRGC/HRMS)
EXPIRY DATE:	02/01/2017

DETAILS:

These solutions contain native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) PCDDs and PCDFs at the concentrations given in Table A in nonane. They are designed to be used as received.

According to U.S. EPA Method 1613, these solutions (CS1-CS5) are used to calibrate the HRGC/HRMS system prior to performing analyses on cleaned-up sample extracts. In addition, solution CS3 is used to verify the original calibration and CS1 is used to establish the required sensitivity of the HRGC/HRMS.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method but either or both can be used to extend the calibration to lower levels.

EPA-1613CVS with EPA-1613CSL and EPA-1613CS0.5 were tested by HRGC/HRMS and found to give a linear calibration. The 5-point calibration summary for EPA-1613CVS is given in Table B and the 7-point calibration summary including both EPA-1613CSL and EPA-1613CS0.5 is shown in Table C. HRGC/HRMS data acquired for EPA-1613CS3, is shown in Figure 1.

ADDITIONAL INFORMATION:

For additional information including potential hazards, handling/storage, accuracy, and shelf life please request a copy of our Reference and Handling Guide. For your convenience this can be downloaded from our website at www.well-labs.com.

Table A: **EPA-1613CVS and EPA-1613CSL/EPA-1613CS0.5 (Components and Concentrations)**

Compound	Concentration (ng/ml in nonane; ± 5%)*						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100

* *Maximum combined percent relative uncertainty of weights and volumes.*
All weights and volumes are traceable to NIST.

Certified By: B.G. Chittim **Date:** 02/17/2010 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA

Table B: **EPA-1613CVS (5-point HRGC/HRMS Calibration/RRF Summary)**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 01FEB_1613CVS-5PT				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.96	0.021	2.2	0.92	0.97	0.95	0.97	0.98
1,2,3,7,8-PeCDF	0.96	0.011	1.1	0.95	0.96	0.96	0.98	0.98
2,3,4,7,8-PeCDF	0.99	0.010	1.1	0.98	1.00	1.00	1.00	1.00
1,2,3,4,7,8-HxCDF	0.98	0.018	1.8	0.95	0.97	0.99	0.99	0.99
1,2,3,6,7,8-HxCDF	0.95	0.009	0.9	0.94	0.94	0.95	0.95	0.96
2,3,4,6,7,8-HxCDF	0.96	0.014	1.4	0.95	0.95	0.97	0.97	0.98
1,2,3,7,8,9-HxCDF	0.91	0.009	1.0	0.91	0.89	0.91	0.92	0.92
1,2,3,4,6,7,8-HpCDF	0.99	0.015	1.5	0.96	1.00	0.99	1.00	1.00
1,2,3,4,7,8,9-HpCDF	0.99	0.014	1.4	0.97	0.98	1.00	1.00	1.00
OCDF	1.35	0.041	3.0	1.32	1.29	1.38	1.37	1.38
2,3,7,8-TCDD	1.19	0.047	3.9	1.12	1.15	1.21	1.22	1.22
1,2,3,7,8-PeCDD	1.09	0.016	1.5	1.07	1.08	1.09	1.10	1.11
1,2,3,4,7,8-HxCDD	1.07	0.022	2.1	1.07	1.04	1.05	1.09	1.08
1,2,3,6,7,8-HxCDD	1.01	0.031	3.1	0.97	1.02	1.06	1.00	1.01
1,2,3,7,8,9-HxCDD	1.02	0.020	1.9	1.01	1.00	1.05	1.03	1.03
1,2,3,4,6,7,8-HpCDD	1.07	0.016	1.5	1.05	1.06	1.07	1.09	1.08
OCDD	1.08	0.014	1.3	1.07	1.07	1.10	1.09	1.09
$^{13}C_{12}$-2,3,7,8-TCDF	1.93	0.070	3.6	1.88	1.88	1.89	1.99	2.03
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.59	0.098	6.2	1.52	1.51	1.54	1.63	1.74
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.56	0.101	6.5	1.50	1.47	1.51	1.59	1.72
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.50	0.010	0.7	1.50	1.51	1.48	1.50	1.51
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.74	0.033	1.9	1.72	1.74	1.71	1.72	1.79
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.60	0.013	0.8	1.59	1.61	1.58	1.60	1.61
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.47	0.017	1.1	1.45	1.46	1.47	1.47	1.50
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.48	0.026	1.7	1.45	1.47	1.47	1.48	1.52
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.20	0.025	2.1	1.20	1.18	1.19	1.20	1.24
$^{13}C_{12}$-2,3,7,8-TCDD	1.00	0.023	2.3	1.01	0.98	0.99	0.99	1.04
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.89	0.049	5.5	0.86	0.85	0.87	0.89	0.97
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.96	0.023	2.4	0.94	0.98	0.94	0.94	0.98
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.08	0.018	1.7	1.07	1.07	1.07	1.11	1.09
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.88	0.013	1.4	0.88	0.87	0.88	0.87	0.90
$^{13}C_{12}$-OCDD	0.80	0.022	2.7	0.81	0.78	0.79	0.81	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.0	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.0	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.99	0.007	0.7	0.99	1.00	0.99	1.00	0.99

Table C: **EPA-1613CVS with EPA-1613CSL & EPA-1613CS0.5**
(7-Point Calibration/RRF Summary)

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 01FEB_1613CVS-7PT				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.95	0.020	2.1	0.94	0.93	0.92	0.97	0.95	0.97	0.98
1,2,3,7,8-PeCDF	0.96	0.012	1.2	0.96	0.94	0.95	0.96	0.96	0.98	0.98
2,3,4,7,8-PeCDF	1.00	0.016	1.6	1.03	0.99	0.98	1.00	1.00	1.00	1.00
1,2,3,4,7,8-HxCDF	0.98	0.015	1.5	0.99	0.97	0.95	0.97	0.99	0.99	0.99
1,2,3,6,7,8-HxCDF	0.94	0.015	1.6	0.91	0.93	0.94	0.94	0.95	0.95	0.96
2,3,4,6,7,8-HxCDF	0.96	0.023	2.4	0.96	0.91	0.95	0.95	0.97	0.97	0.98
1,2,3,7,8,9-HxCDF	0.90	0.020	2.2	0.86	0.90	0.91	0.89	0.91	0.92	0.92
1,2,3,4,6,7,8-HpCDF	0.99	0.012	1.2	0.98	0.99	0.96	1.00	0.99	1.00	1.00
1,2,3,4,7,8,9-HpCDF	0.98	0.021	2.1	0.94	0.98	0.97	0.98	1.00	1.00	1.00
OCDF	1.33	0.054	4.1	1.24	1.30	1.32	1.29	1.38	1.37	1.38
2,3,7,8-TCDD	1.20	0.053	4.4	1.23	1.28	1.12	1.15	1.21	1.22	1.22
1,2,3,7,8-PeCDD	1.09	0.013	1.2	1.09	1.08	1.07	1.08	1.09	1.10	1.11
1,2,3,4,7,8-HxCDD	1.05	0.028	2.7	1.03	1.02	1.07	1.04	1.05	1.09	1.08
1,2,3,6,7,8-HxCDD	1.01	0.038	3.8	0.95	1.05	0.97	1.02	1.06	1.00	1.01
1,2,3,7,8,9-HxCDD	1.01	0.027	2.7	0.96	1.01	1.01	1.00	1.05	1.03	1.03
1,2,3,4,6,7,8-HpCDD	1.07	0.016	1.5	1.05	1.06	1.05	1.06	1.07	1.09	1.08
OCDD	1.08	0.022	2.1	1.03	1.07	1.07	1.07	1.10	1.09	1.09
$^{13}C_{12}$-2,3,7,8-TCDF	1.94	0.058	3.0	1.94	1.96	1.88	1.88	1.89	1.99	2.03
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.57	0.084	5.3	1.53	1.55	1.52	1.51	1.54	1.63	1.74
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.54	0.088	5.7	1.48	1.52	1.50	1.47	1.51	1.59	1.72
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.50	0.011	0.7	1.50	1.52	1.50	1.51	1.48	1.50	1.51
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.73	0.028	1.6	1.73	1.72	1.72	1.74	1.71	1.72	1.79
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.60	0.011	0.7	1.60	1.61	1.59	1.61	1.58	1.60	1.61
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.47	0.014	0.9	1.47	1.47	1.45	1.46	1.47	1.47	1.50
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.47	0.024	1.7	1.44	1.47	1.45	1.47	1.47	1.48	1.52
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.19	0.024	2.0	1.17	1.19	1.20	1.18	1.19	1.20	1.24
$^{13}C_{12}$-2,3,7,8-TCDD	1.00	0.020	2.0	0.98	1.00	1.01	0.98	0.99	0.99	1.04
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.88	0.045	5.1	0.85	0.85	0.86	0.85	0.87	0.89	0.97
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.96	0.021	2.1	0.98	0.96	0.94	0.98	0.94	0.94	0.98
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.08	0.017	1.6	1.06	1.08	1.07	1.07	1.07	1.11	1.09
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.88	0.015	1.7	0.85	0.87	0.88	0.87	0.88	0.87	0.90
$^{13}C_{12}$-OCDD	0.80	0.020	2.5	0.78	0.80	0.81	0.78	0.79	0.81	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.98	0.032	3.3	0.98	0.91	0.99	1.00	0.99	1.00	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 column)**

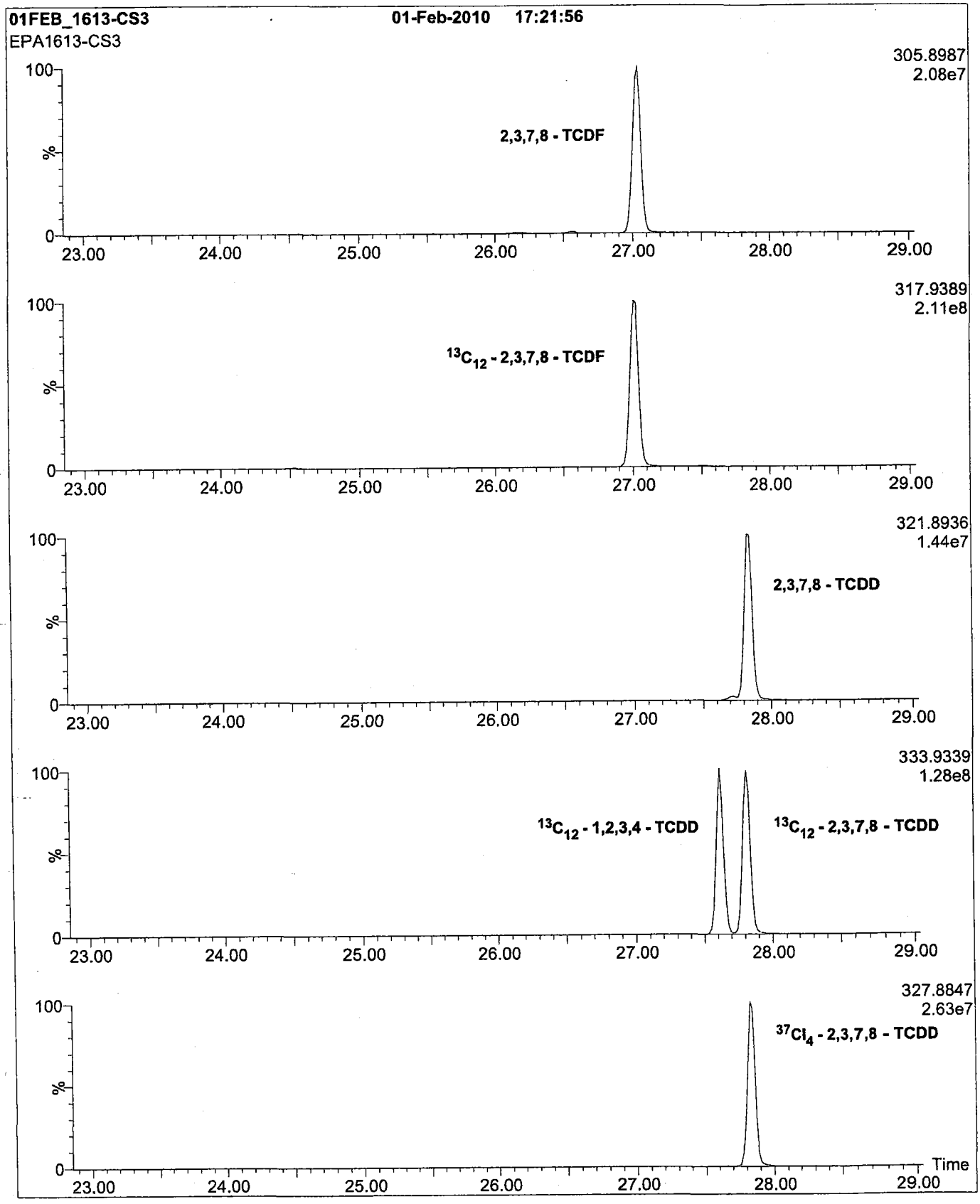


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 column)**

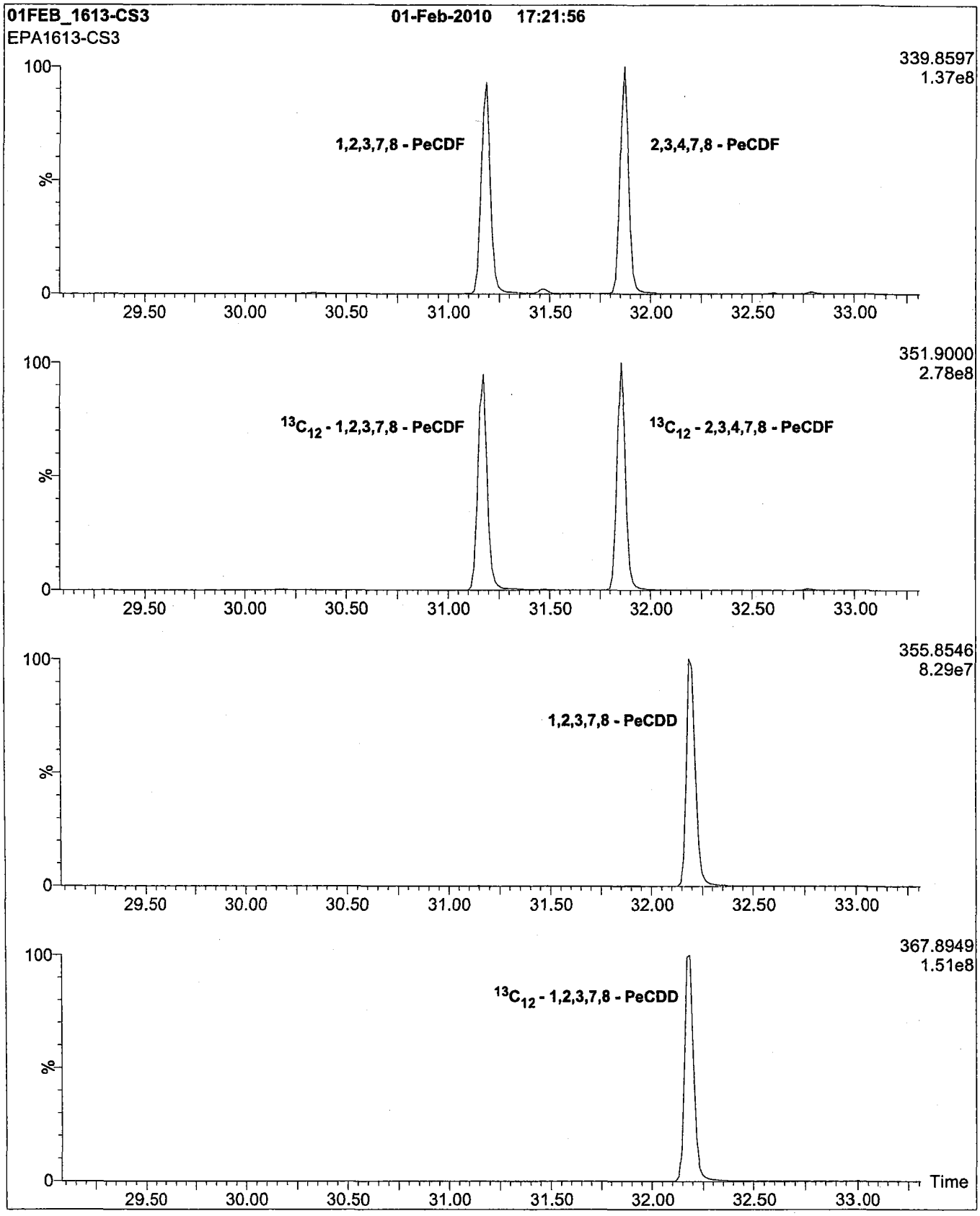


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 column)**

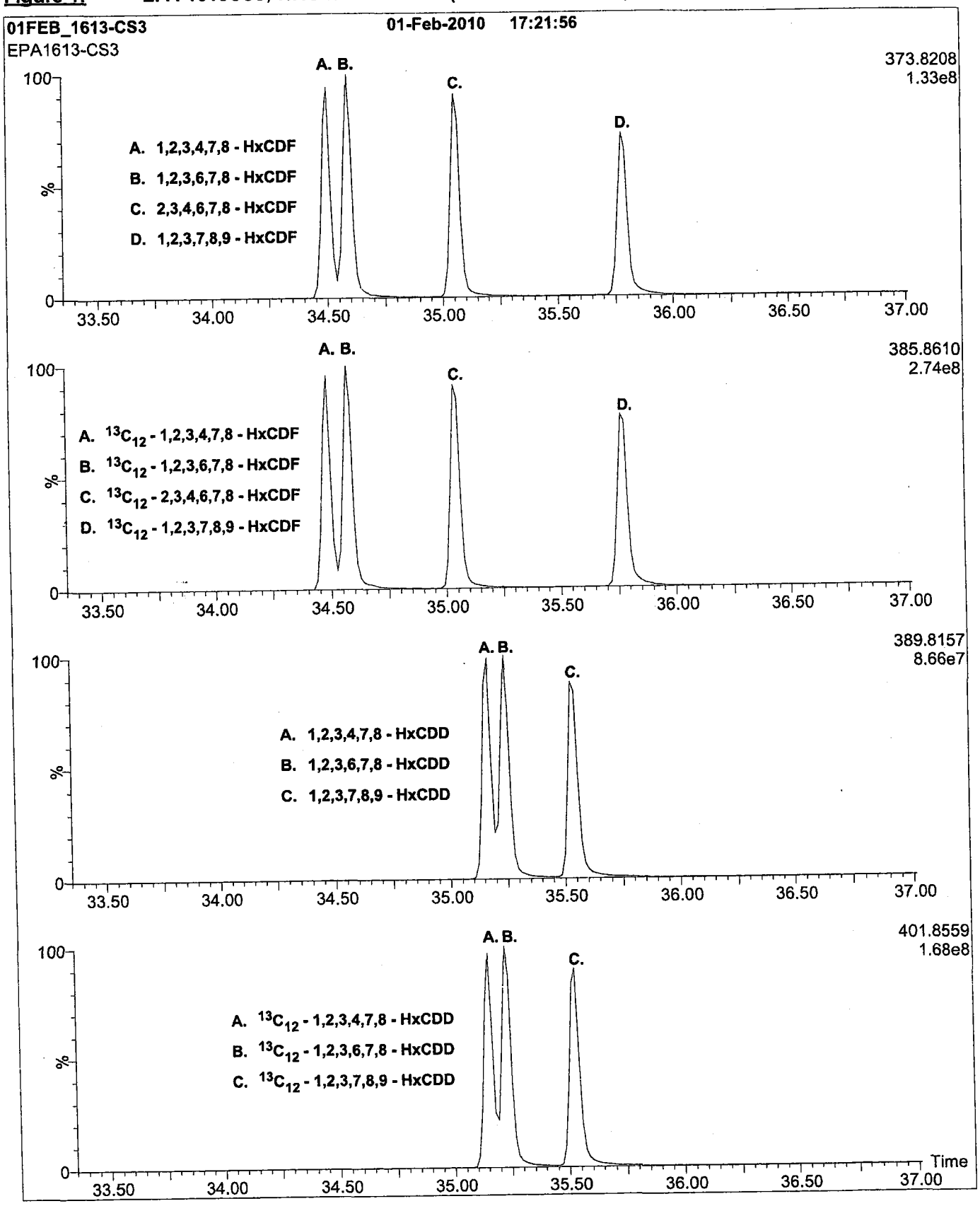


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 column)**

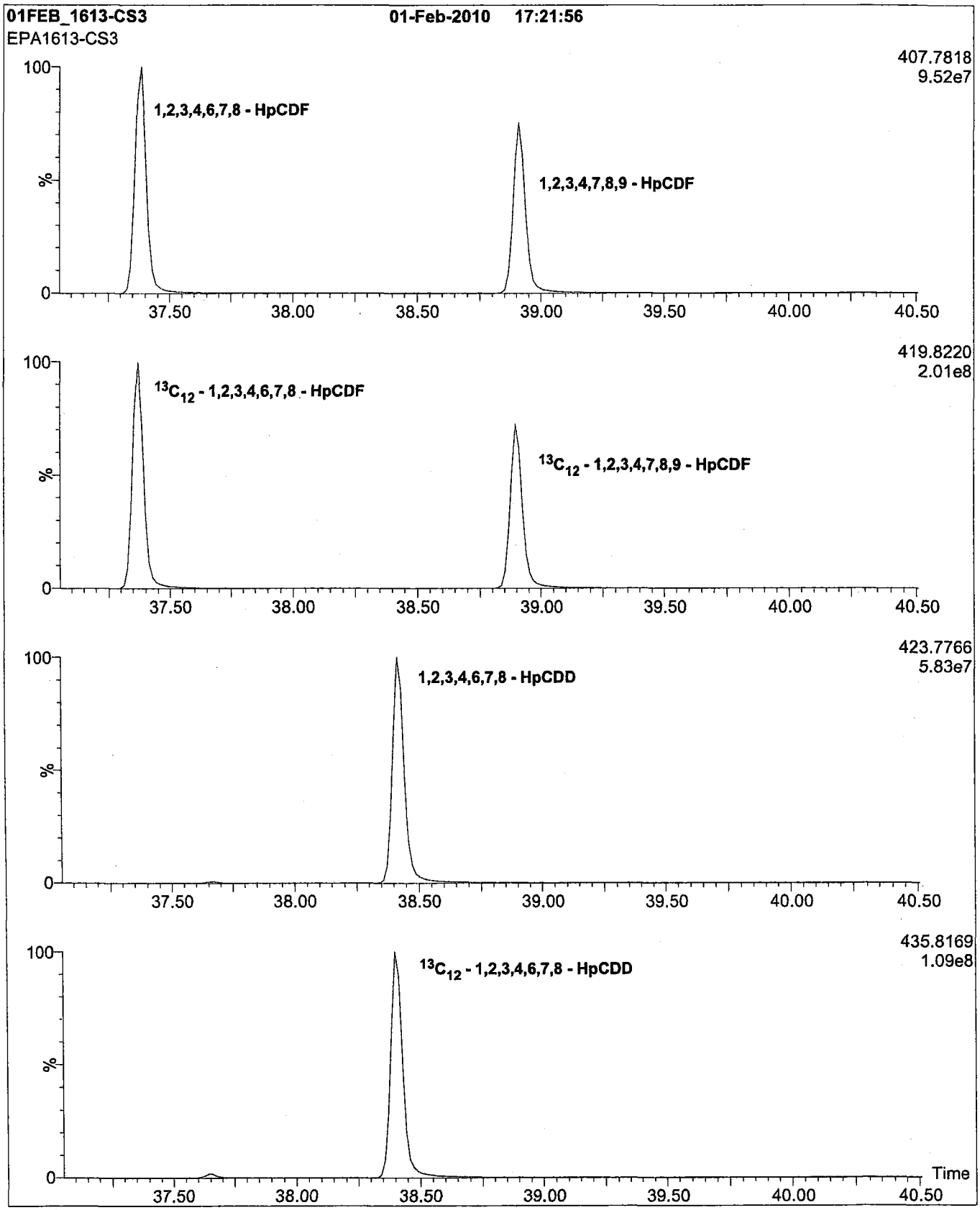
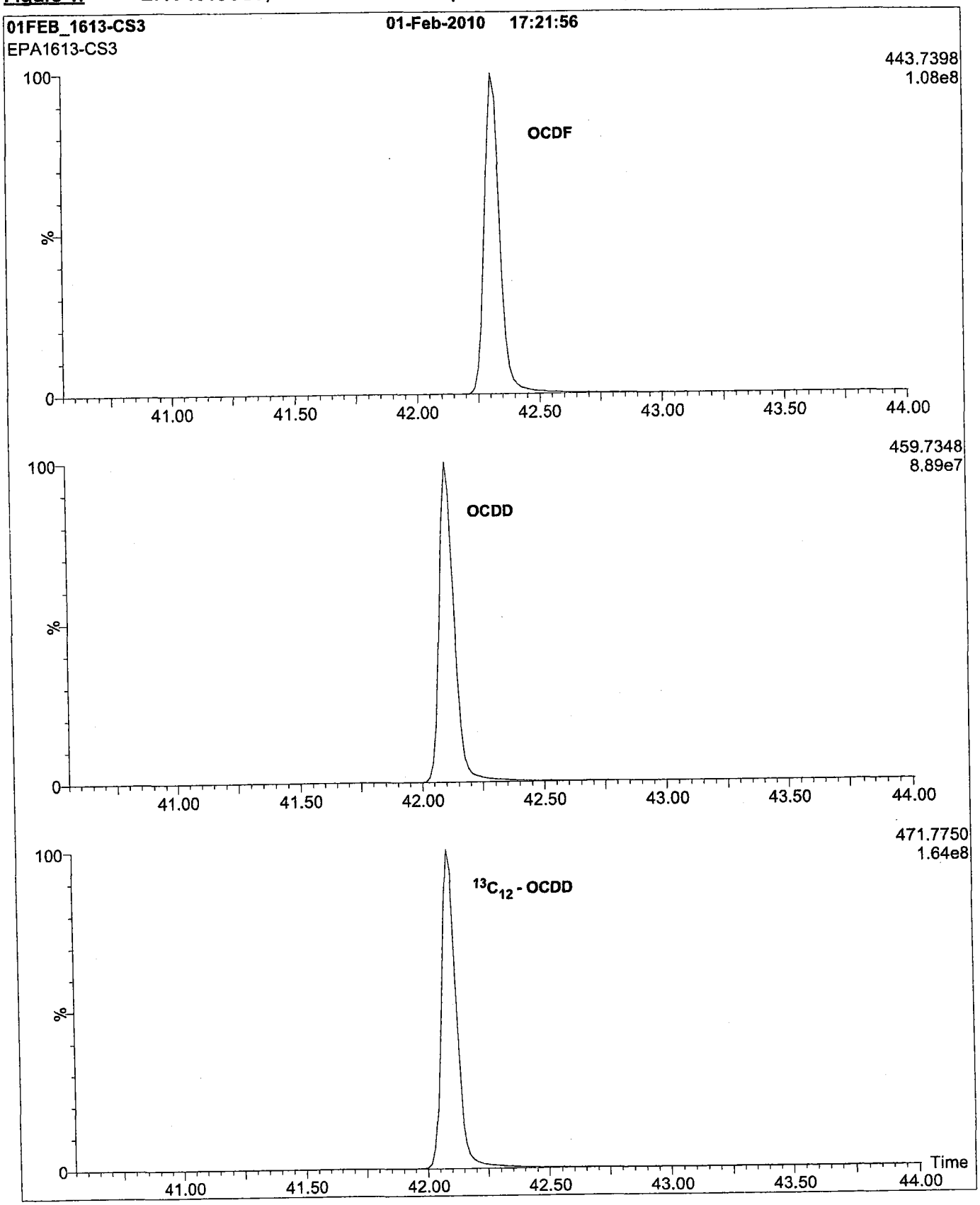


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 column)**



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CERTIFICATE OF ANALYSIS/DOCUMENTATION

CS3WT
Calibration and Verification Solution (EPA-1613CS3) Combined With Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

DESCRIPTION:

CS3WT is a solution/mixture of native and mass-labelled chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). It was designed and prepared to be used as a HRGC/HRMS calibration and verification standard for U.S. EPA Method 1613.

This solution also contains PCDD and PCDF window defining congeners for a DB-5, or equivalent, capillary column and the TCDD isomers used to test the resolution of 2,3,7,8-TCDD.

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT1109
DATE PREPARED: (mm/dd/yyyy)	02/23/2010
LAST TESTED: (mm/dd/yyyy)	02/24/2010 (HRGC/HRMS)
EXPIRY DATE:	02/24/2017

DETAILS:

CS3WT contains those compounds listed in Table A at the concentrations given in nonane.

The native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of 98% or higher and their structures have been confirmed by proton NMR.

The mass-labelled PCDDs and PCDFs also have chemical purities of >98%; the $^{13}C_{12}$-labelled congeners have isotopic purities of 99% or better and the $^{37}Cl_4$-2,3,7,8-TCDD has an isotopic purity of 95-96%.

Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation.

The other congeners (window defining and 2378-TCDD resolution testing) should only be considered semi-quantitative (i.e. within ± 20% of their design value). Some of these congeners are difficult to prepare at >98% purity; the impurities, where possible, are identified.

This current lot of CS3WT (CS3WT1109) is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS11109
EPA-1613CS2	13CS21109
EPA-1613CS3	13CS31109
EPA-1613CS4	13CS41109
EPA-1613CS5	13CS51109
EPA-1613CSL	13CSL1109
EPA-1613CS0.5	13CS0.51109

HRGC/HRMS chromatograms acquired for CS3WT are attached in Figure 1.

ADDITIONAL INFORMATION:

For additional information including potential hazards, handling/storage, accuracy, and shelf life please request a copy of our Reference and Handling Guide. For your convenience this can be downloaded from our website at www.well-labs.com.

Table A: **CS3WT; Components and Concentrations (nonane)**

QUANTITATIVE ANALYTES (ng/ml)	
Native PCDDs & PCDFs:	
2,3,7,8-TCDD	10
2,3,7,8-TCDF	10
1,2,3,7,8-PeCDD	50
1,2,3,7,8-PeCDF	50
2,3,4,7,8-PeCDF	50
1,2,3,4,7,8-HxCDD	50
1,2,3,6,7,8-HxCDD	50
1,2,3,7,8,9-HxCDD	50
1,2,3,4,7,8-HxCDF	50
1,2,3,6,7,8-HxCDF	50
1,2,3,7,8,9-HxCDF	50
2,3,4,6,7,8-HxCDF	50
1,2,3,4,6,7,8-HpCDD *(WD)*	50
1,2,3,4,6,7,8-HpCDF *(WD)*	50
1,2,3,4,7,8,9-HpCDF *(WD)*	50
OCDD	100
OCDF	100
Labelled PCDDs & PCDFs:	
$^{13}C_{12}$-2,3,7,8-TCDD	100
$^{13}C_{12}$-2,3,7,8-TCDF	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100
$^{13}C_{12}$-OCDD	200
Cleanup Standard:	
$^{37}Cl_4$-2,3,7,8-TCDD	10
Internal Standards:	
$^{13}C_{12}$-1,2,3,4-TCDD	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100

WD – Window Definer

SEMI-QUANTITATIVE ANALYTES (ng/ml)	
Window Definers:*	
1,3,6,8-TCDD	10
1,2,8,9-TCDD	10
1,3,6,8-TCDF	10
1,2,8,9-TCDF	10
1,2,4,7,9-PeCDD	50
1,2,3,8,9-PeCDD	50
1,3,4,6,8-PeCDF	50
1,2,3,8,9-PeCDF	50
1,2,4,6,7,9-HxCDD	50
1,2,3,4,6,8-HxCDF	50
1,2,3,4,6,7,9-HpCDD	50
2378-TCDD Resolution Testing Isomers:	
1,2,3,4-TCDD	5
1,2,3,7/1,2,3,8-TCDD	5
1,2,3,9-TCDD	10

** 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD. Use 1,2,3,4,6,7,9-HpCDD to set window.*

** 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF. Use 1,2,3,4,6,7,8-HpCDF to set window.*

Certified By: B.G. Chittim **Date:** 02/25/2010 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA

Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**

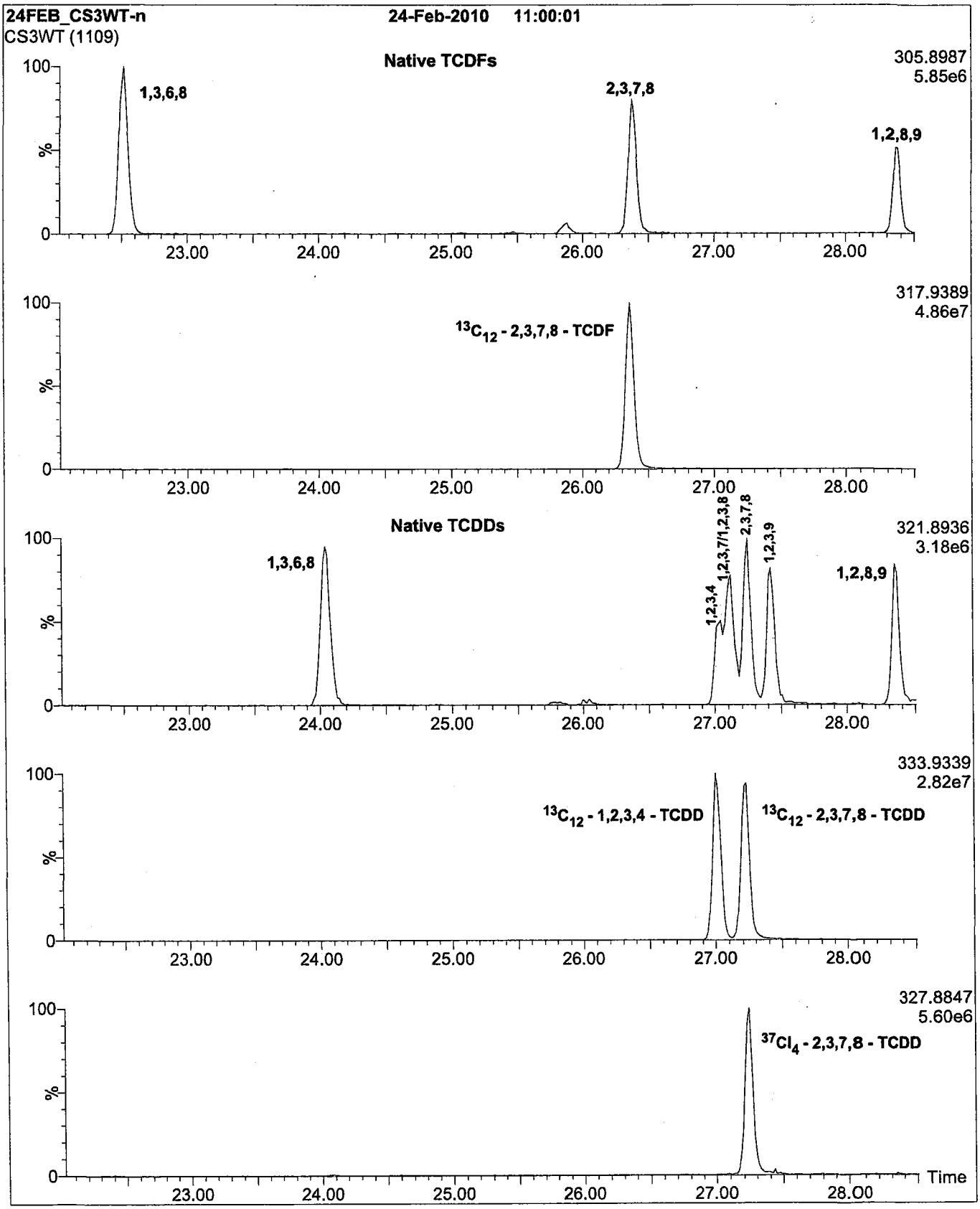


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**

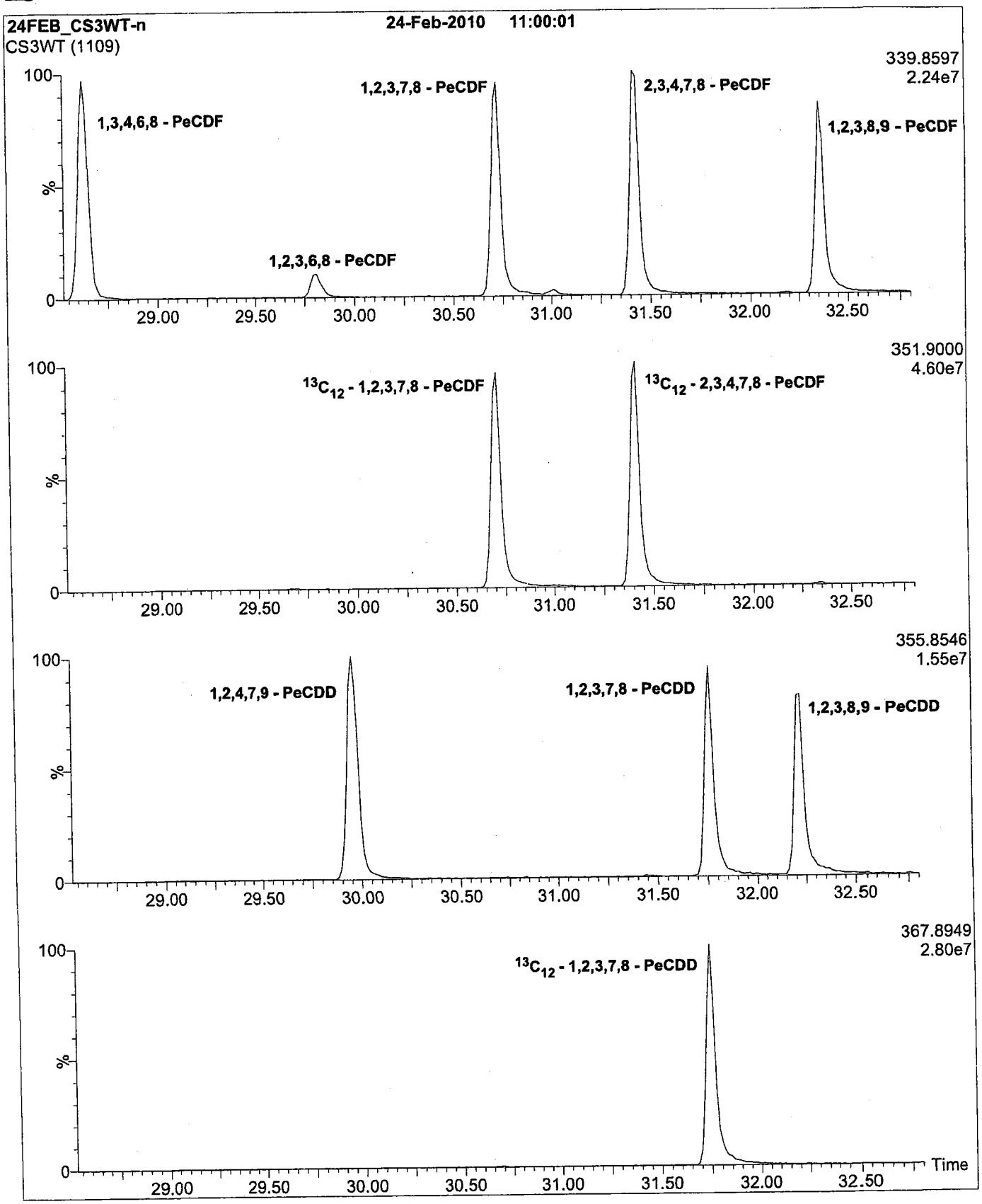


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**

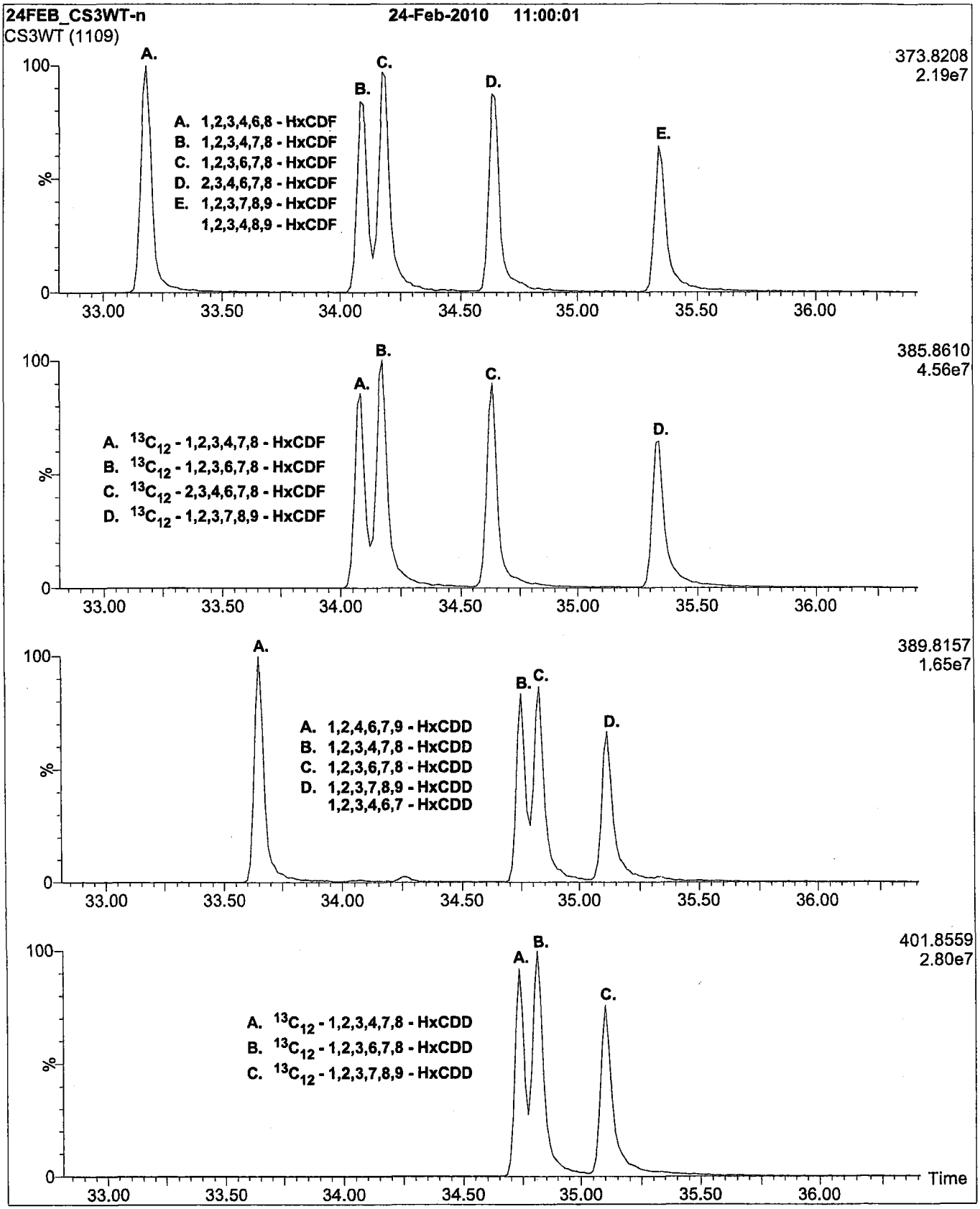


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**

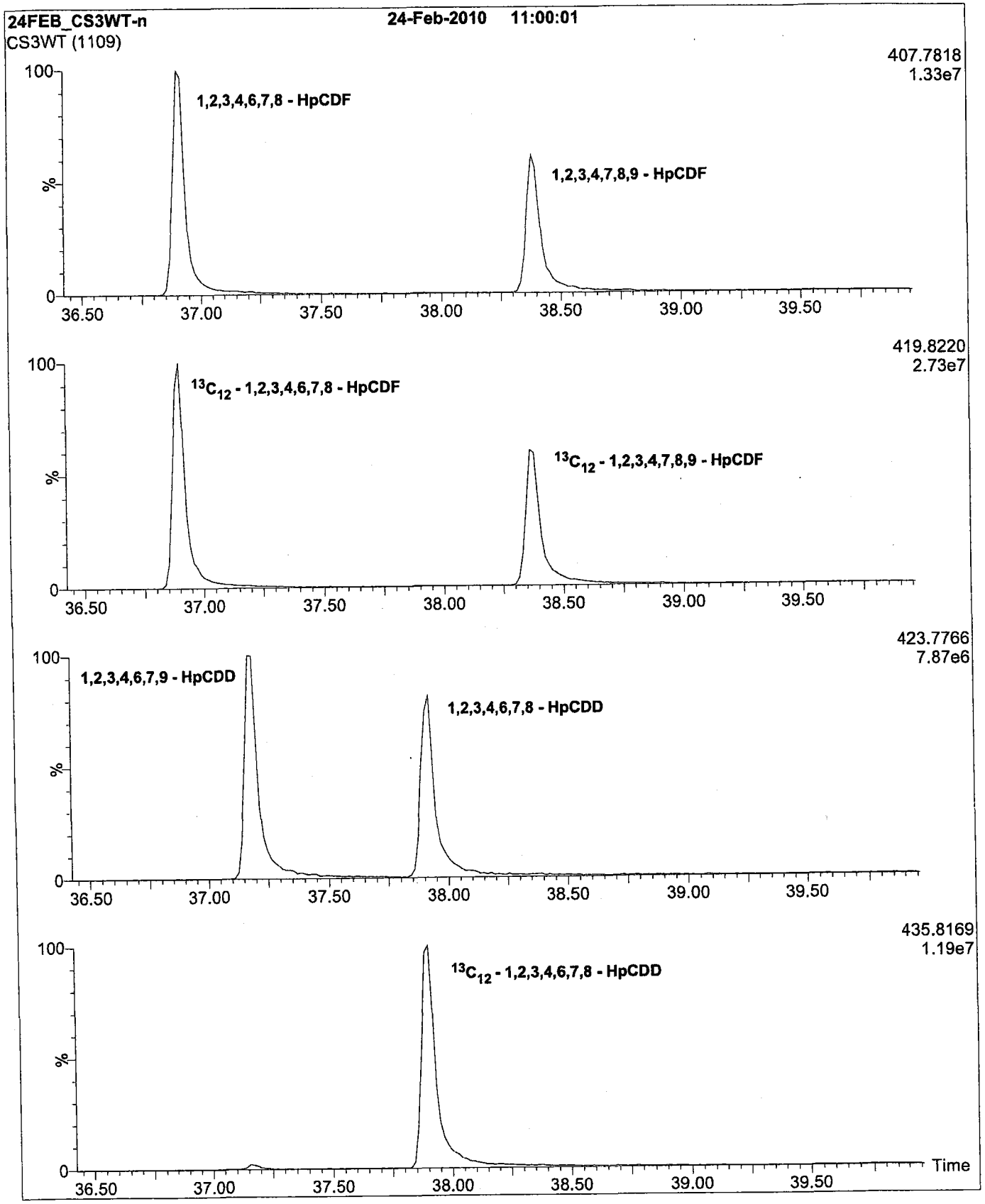
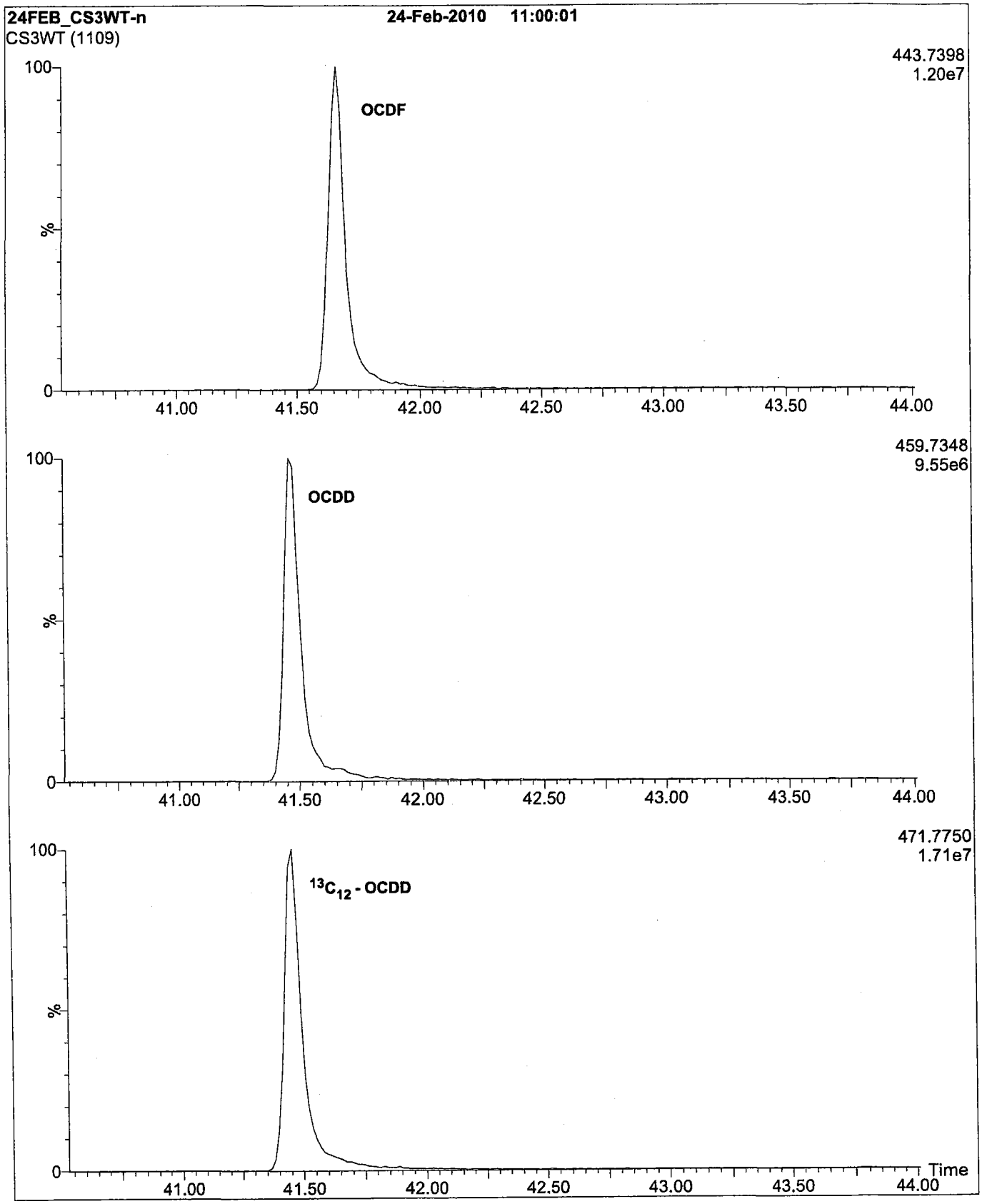


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**



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WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS/DOCUMENTATION

CS3WT
Calibration and Verification Solution (EPA-1613CS3) Combined With Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

DESCRIPTION:

CS3WT is a solution/mixture of native and mass-labelled chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). It was designed and prepared to be used as a HRGC/HRMS calibration and verification standard for U.S. EPA Method 1613.

This solution also contains PCDD and PCDF window defining congeners for a DB-5, or equivalent, capillary column and the TCDD isomers used to test the resolution of 2,3,7,8-TCDD.

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT1107
DATE PREPARED: (mm/dd/yyyy)	12/07/2007
LAST TESTED: (mm/dd/yyyy)	12/07/2007 (HRGC/HRMS)
EXPIRY DATE:	12/07/2014

DETAILS:

CS3WT contains those compounds listed in Table A at the concentrations given, in nonane.

The native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of 98% or higher and their structures have been confirmed by proton NMR.

The mass-labelled PCDDs and PCDFs also have chemical purities of >98%; the $^{13}C_{12}$-labelled congeners have isotopic purities of 99% or better and the $^{37}Cl_4$-2,3,7,8-TCDD has an isotopic purity of 95-96%.

Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation.

The other congeners (window defining and 2378-TCDD resolution testing) should only be considered semi-quantitative (i.e. within ± 20% of their design value). Some of these are difficult to prepare at >98% purity; the impurities, where possible, are identified.

This current lot of CS3WT (CS3WT1107) is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS11107
EPA-1613CS2	13CS21107
EPA-1613CS3	13CS31107
EPA-1613CS4	13CS41107
EPA-1613CS5	13CS51107
EPA-1613CSL	13CSL1107
EPA-1613CS0.5	13CS0.51107

CS3WT was analyzed together with the calibration solutions listed above and these 7 solutions were found to give a linear calibration.

CS3WT was also processed as a calibration verification solution and the data found to be acceptable (see Table B).

HRGC/HRMS chromatograms acquired for CS3WT are also attached in Figure 1.

ADDITIONAL INFORMATION:

For additional information including potential hazards, handling/storage, accuracy, and shelf life please request a copy of our Reference and Handling Guide. For your convenience this can be downloaded from our website at www.well-labs.com.

Table A: **CS3WT; Components and Concentrations**

QUANTITATIVE ANALYTES (ng/ml)	
Native PCDDs & PCDFs:	
2,3,7,8-TCDD	10
2,3,7,8-TCDF	10
1,2,3,7,8-PeCDD	50
1,2,3,7,8-PeCDF	50
2,3,4,7,8-PeCDF	50
1,2,3,4,7,8-HxCDD	50
1,2,3,6,7,8-HxCDD	50
1,2,3,7,8,9-HxCDD	50
1,2,3,4,7,8-HxCDF	50
1,2,3,6,7,8-HxCDF	50
1,2,3,7,8,9-HxCDF	50
2,3,4,6,7,8-HxCDF	50
1,2,3,4,6,7,8-HpCDD *(WD)*	50
1,2,3,4,6,7,8-HpCDF *(WD)*	50
1,2,3,4,7,8,9-HpCDF *(WD)*	50
OCDD	100
OCDF	100
Labelled PCDDs & PCDFs:	
$^{13}C_{12}$-2,3,7,8-TCDD	100
$^{13}C_{12}$-2,3,7,8-TCDF	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100
$^{13}C_{12}$-OCDD	200
Cleanup Standard:	
$^{37}Cl_4$-2,3,7,8-TCDD	10
Internal Standards:	
$^{13}C_{12}$-1,2,3,4-TCDD	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100

WD – Window Definer

SEMI-QUANTITATIVE ANALYTES (ng/ml)	
Window Definers:*	
1,3,6,8-TCDD	10
1,2,8,9-TCDD	10
1,3,6,8-TCDF	10
1,2,8,9-TCDF	10
1,2,4,7,9-PeCDD	50
1,2,3,8,9-PeCDD	50
1,3,4,6,8-PeCDF	50
1,2,3,8,9-PeCDF	50
1,2,4,6,7,9-HxCDD	50
1,2,3,4,6,8-HxCDF	50
1,2,3,4,6,7,9-HpCDD	50
2378-TCDD Resolution Testing Isomers:	
1,2,3,4-TCDD	5
1,2,3,7/1,2,3,8-TCDD	5
1,2,3,9-TCDD	10

* *1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD. Use 1,2,3,4,6,7,9-HpCDD to set window.*

* *1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF. Use 1,2,3,4,6,7,8-HpCDF to set window.*

Certified By: B.G. Chittim **Date:** 12/27/2007 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA

Table B: **CS3WT; Calibration Verification Data Sheet**

Initial Calibration Date: 07-DEC-2007

Instrument ID: Autospec Ultima GC Column ID: DB5

Calibration File Name: 07DEC-CVS-CAL.cdb
Verification File Name: 07DEC_CS3WT.qld

Data Filename: 07DEC_1613-CS3WT
Description: 1613-CS3WT

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	CALC. VALUE (pg)	ACCEPTABLE RANGE (pg)
NATIVE ANALYTES					
2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	10.5	8.50 - 11.5
1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32-1.78	52.9	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.35	1.05-1.43	50.1	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.18	1.05-1.43	52.6	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	50.9	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	51.7	40.0 - 60.0
OCDD	M+2/M+4	0.91	0.76-1.02	103	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	10.4	8.50 - 11.5
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	51.4	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	51.2	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	52.3	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	50.8	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.32	1.05-1.43	50.7	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05-1.43	50.3	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	52.4	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88-1.20	50.6	40.0 - 60.0
OCDF	M+2/M+4	0.93	0.76-1.02	106	80.0 - 120

SURROGATE	PERCENT RECOVERY
$^{13}C_{12}$-2,3,7,8-TCDD	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	98
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	106
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	98
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	101
$^{13}C_{12}$-OCDD	102
$^{13}C_{12}$-2,3,7,8-TCDF	99
$^{13}C_{12}$-1,2,3,7,8-PeCDF	99
$^{13}C_{12}$-2,3,4,7,8-PeCDF	99
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	101
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	103
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	104
$^{37}Cl_4$-2,3,7,8-TCDD	98

Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 column)

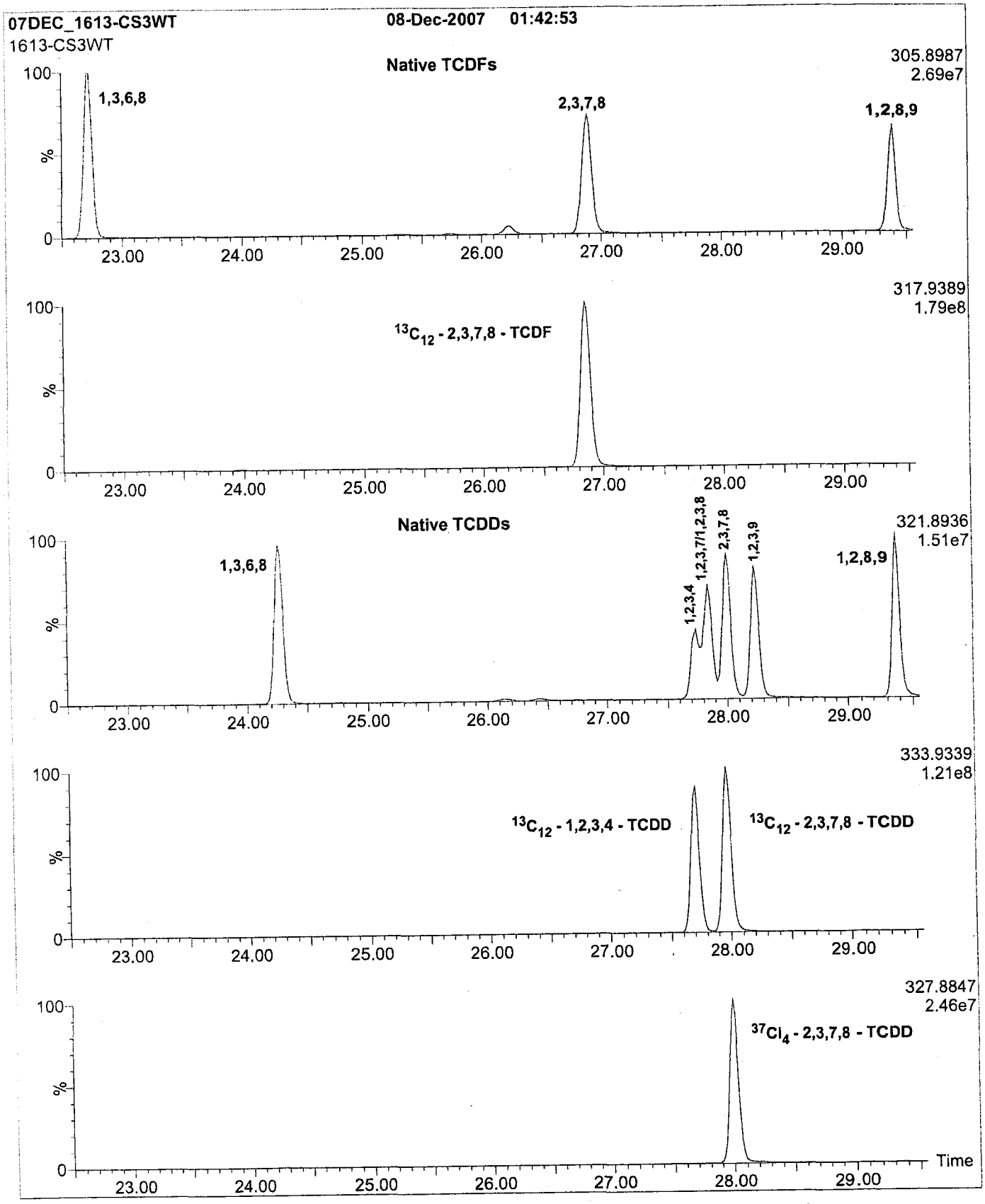


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**

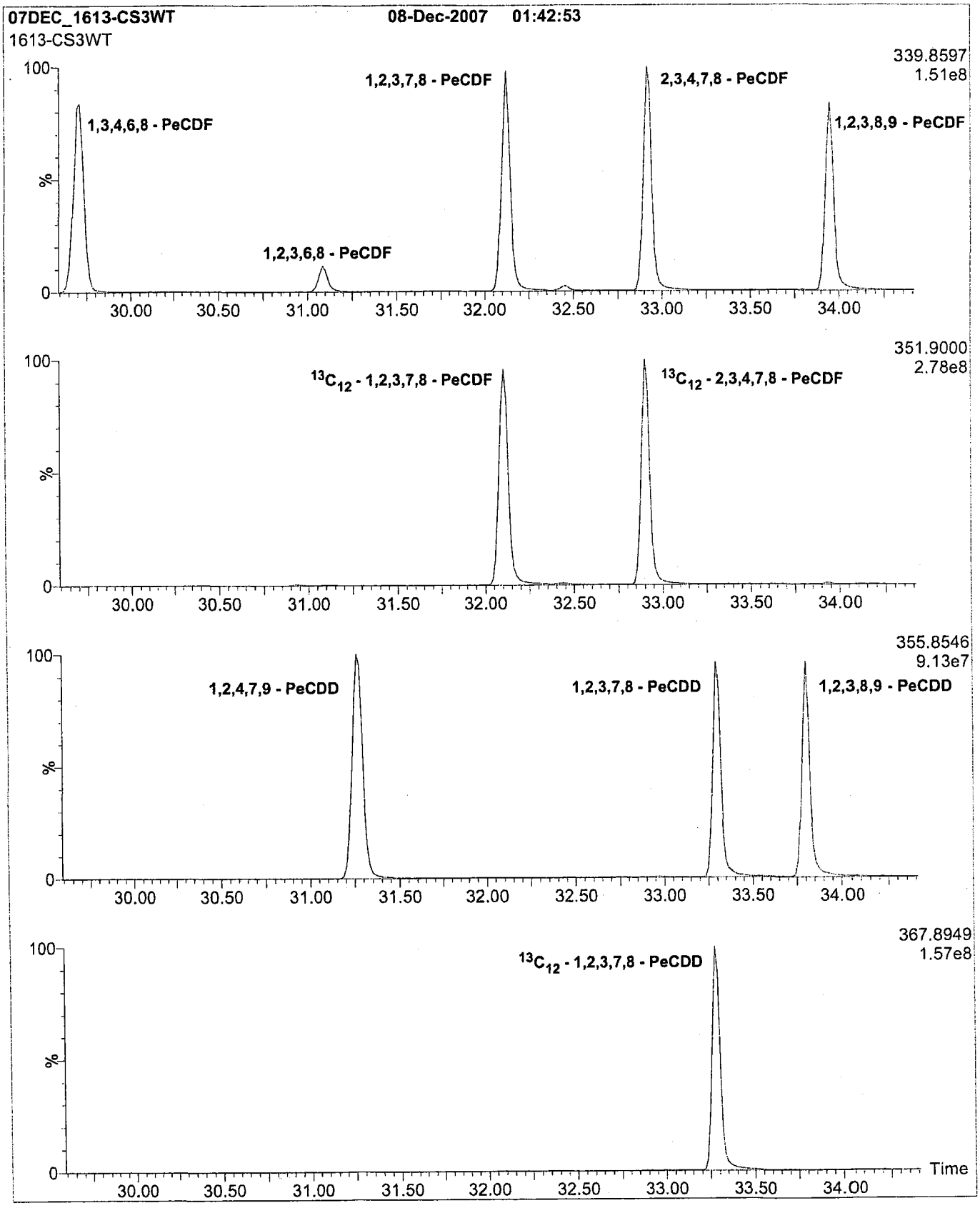


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**

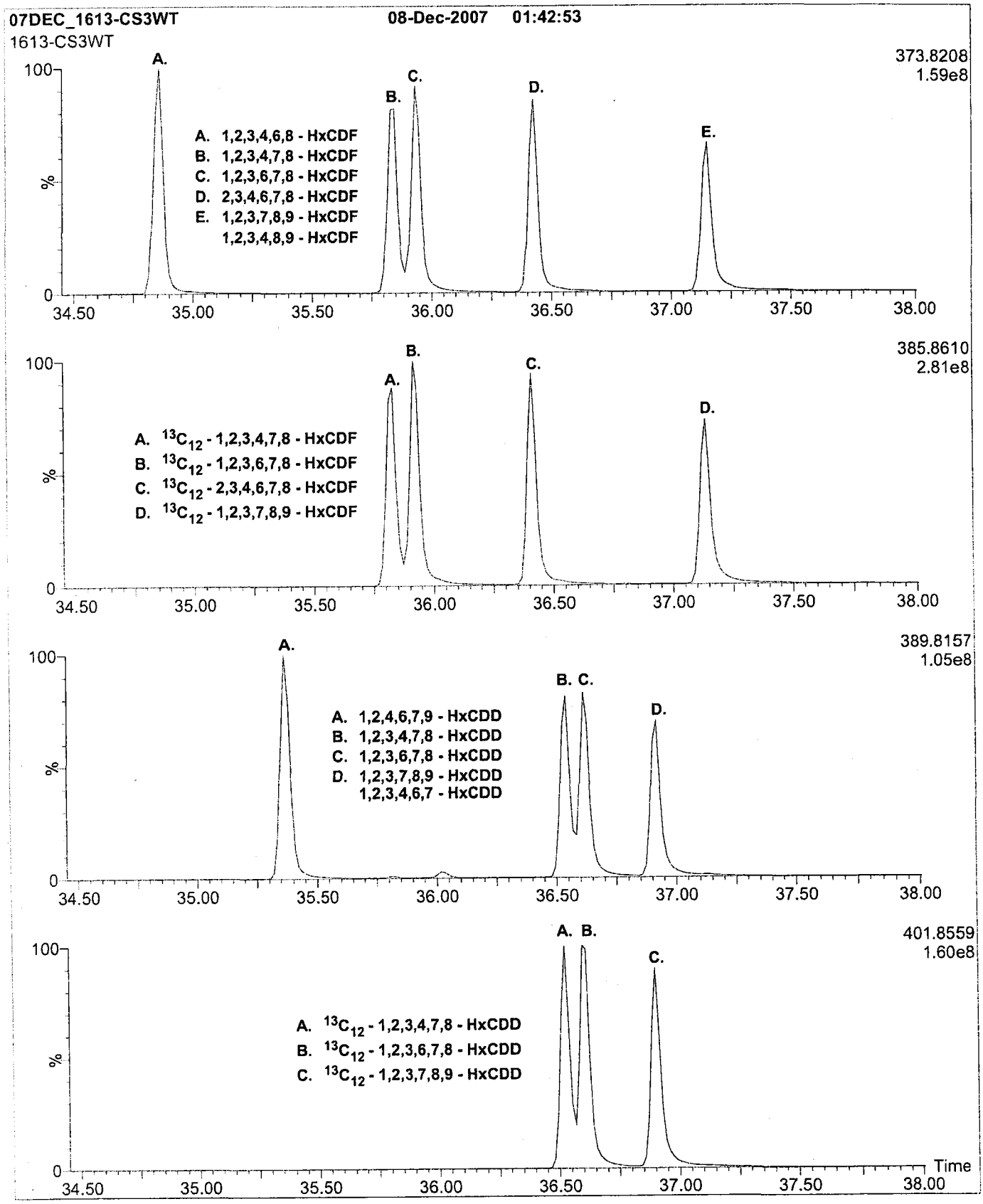


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**

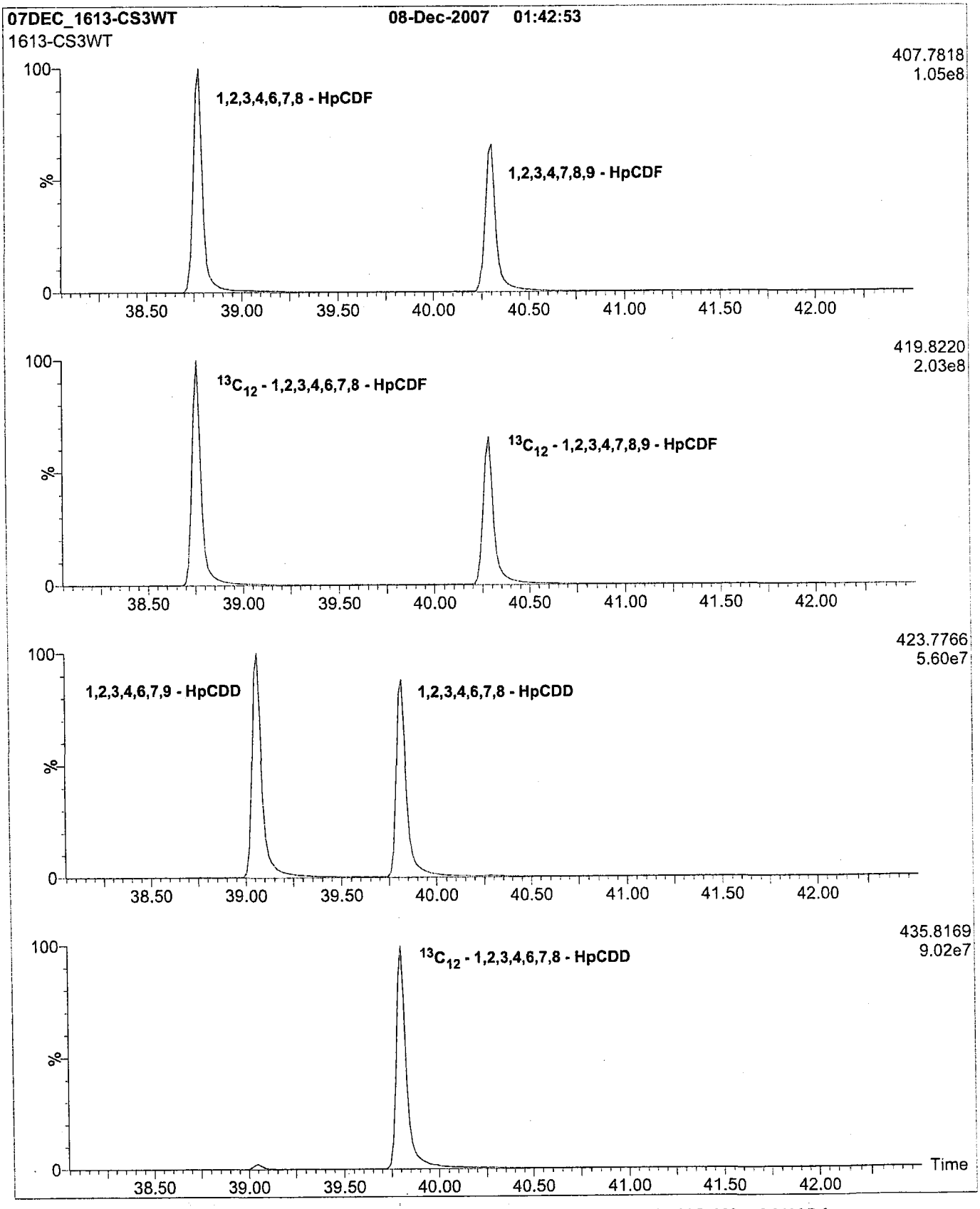
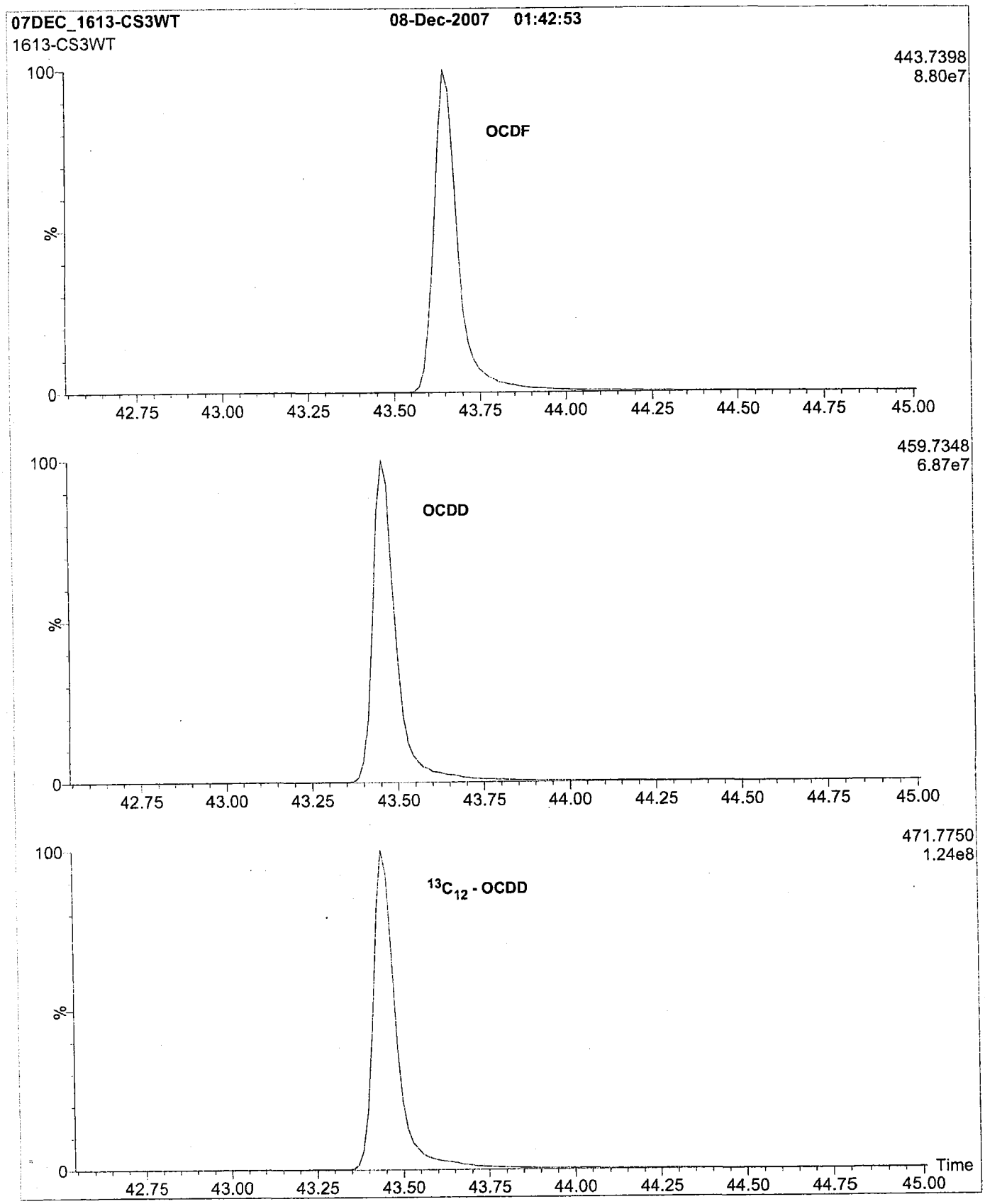


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 column)**



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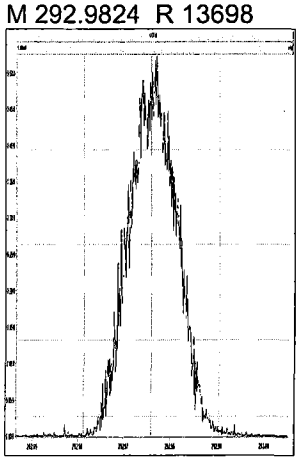

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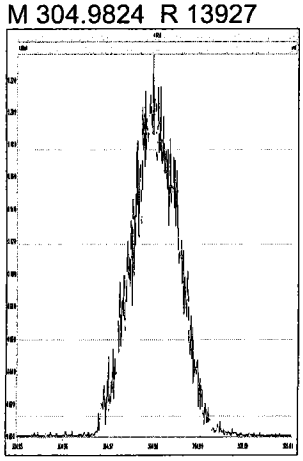

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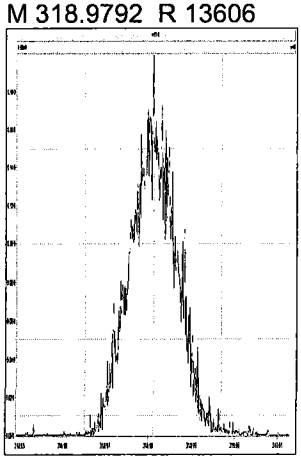

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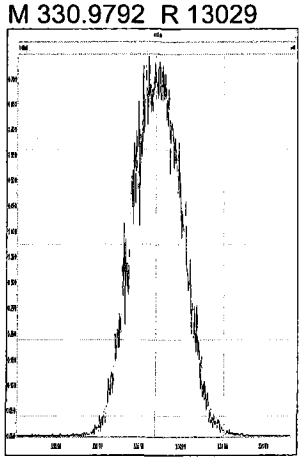
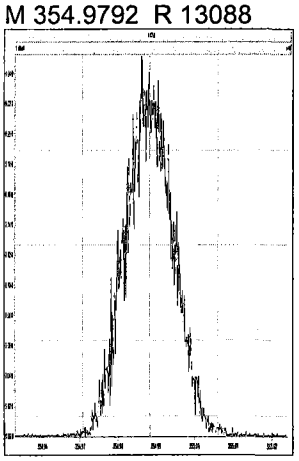
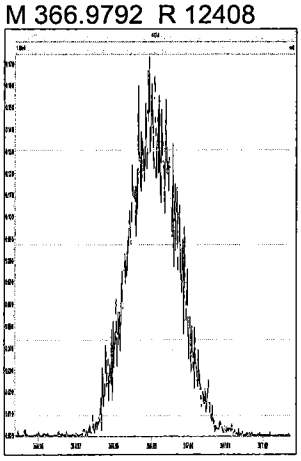


M 354.9792 R 13088



M 366.9792 R 12408



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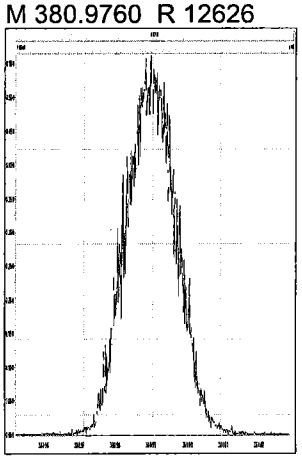
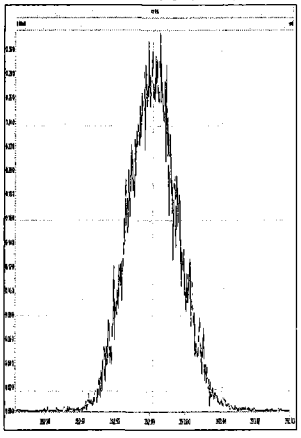
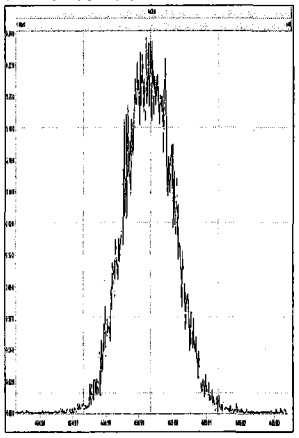


M 392.9760 R 12787



M 404.9760 R 12702



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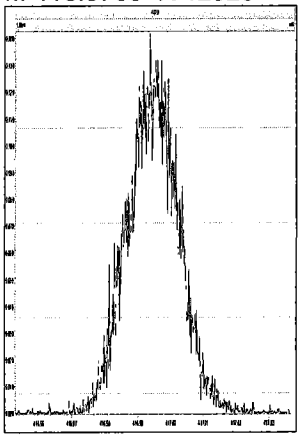

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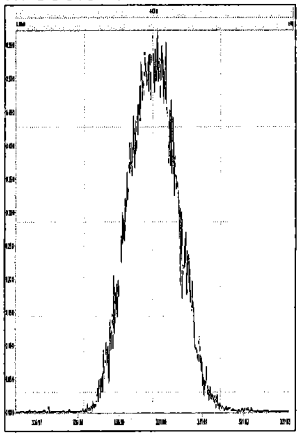
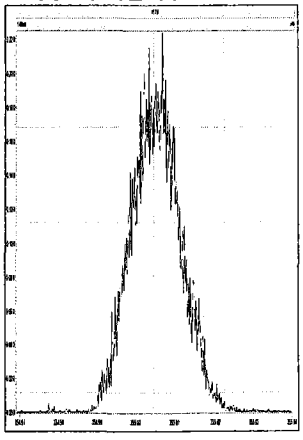


M 354.9792 R 13158



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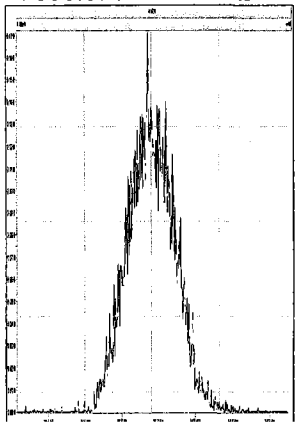

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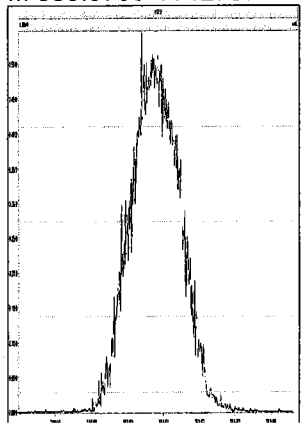

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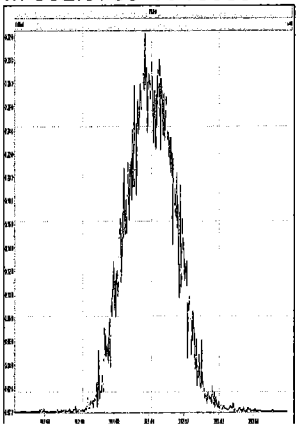

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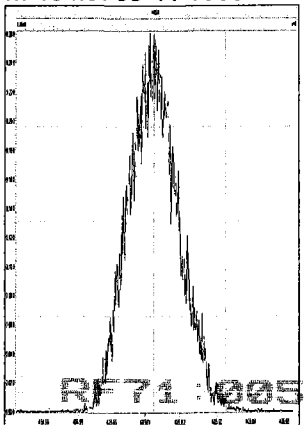

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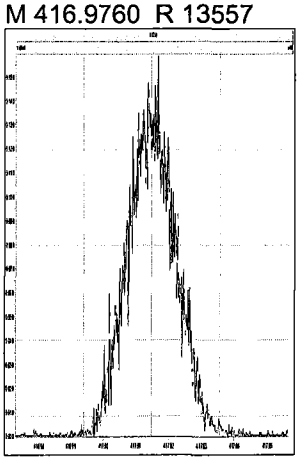

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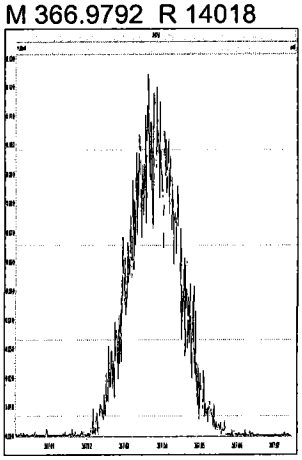

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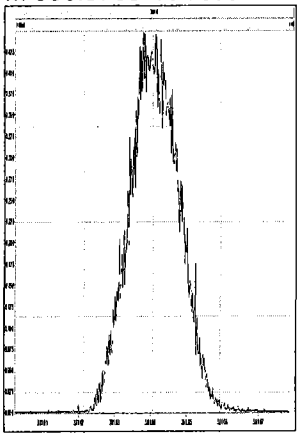

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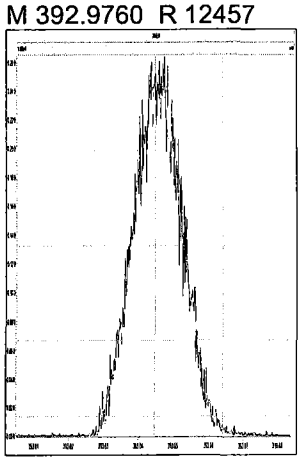

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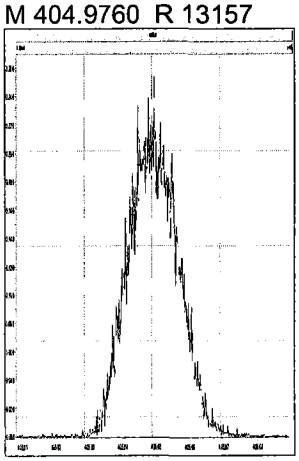

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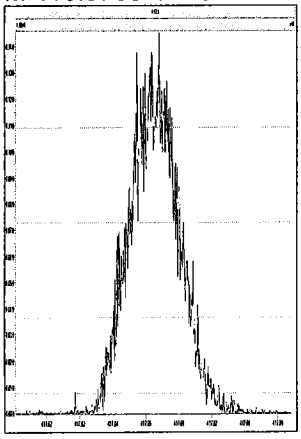

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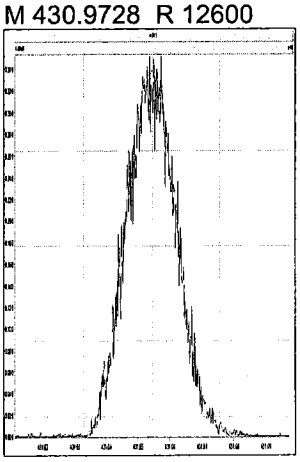

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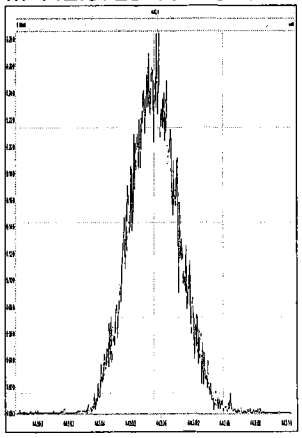

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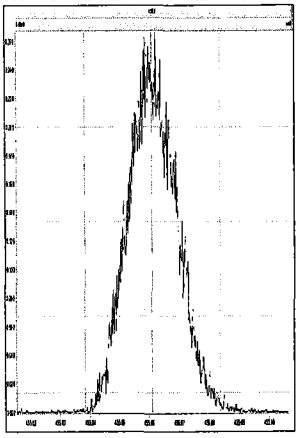

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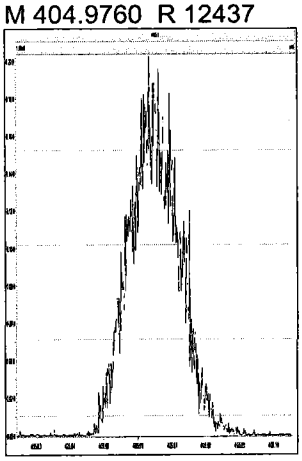

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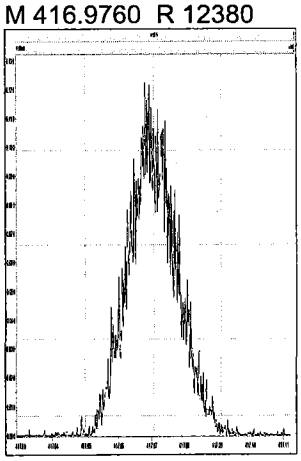
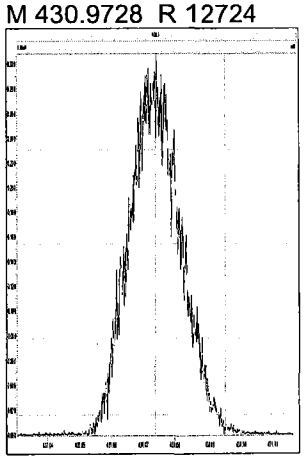
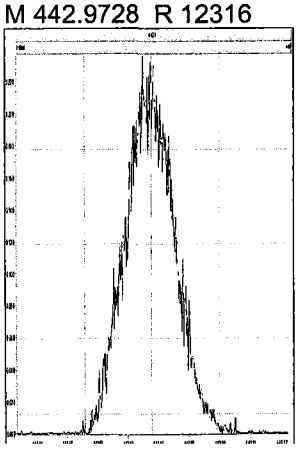


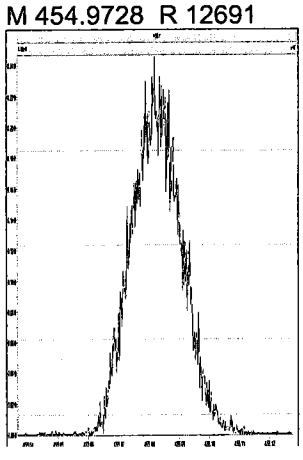
M 430.9728 R 12724



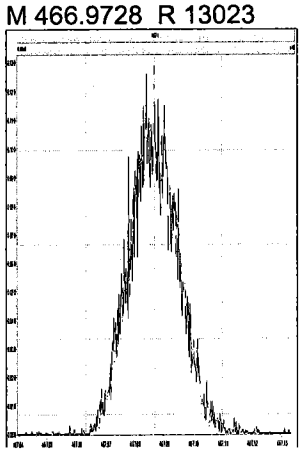
M 442.9728 R 12316



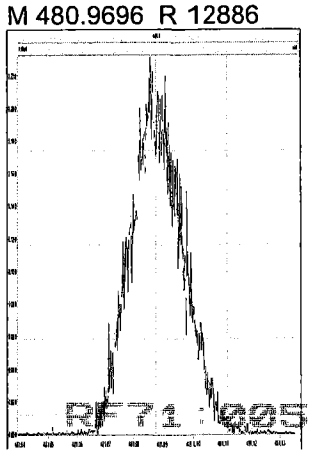
M 454.9728 R 12691



M 466.9728 R 13023



M 480.9696 R 12886



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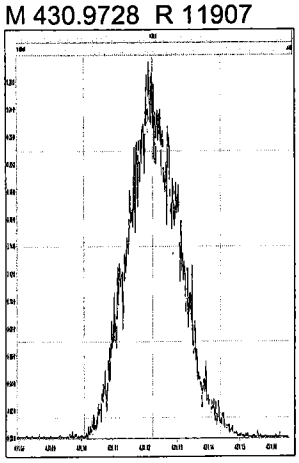
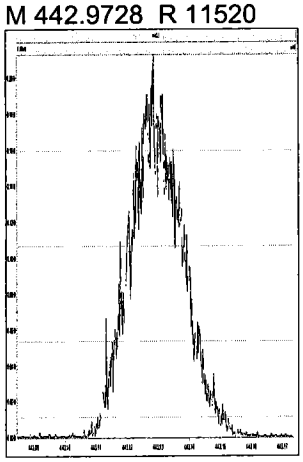
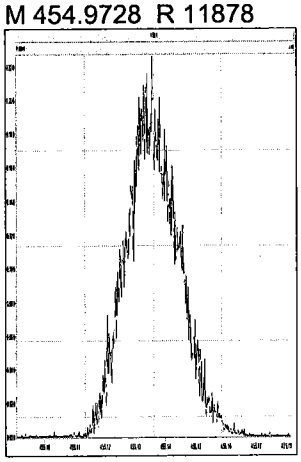
M 430.9728 R 11907



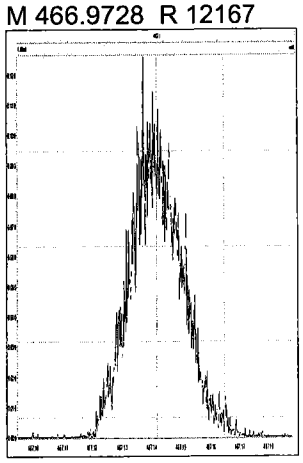
M 442.9728 R 11520



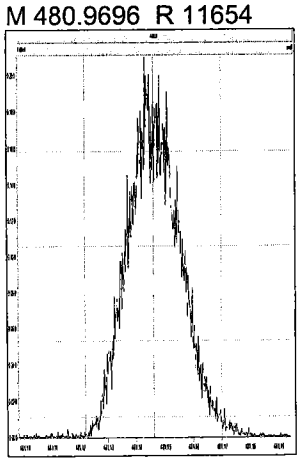
M 454.9728 R 11878



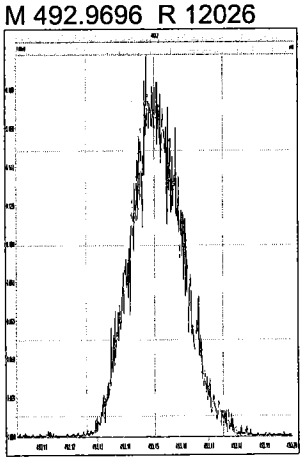
M 466.9728 R 12167



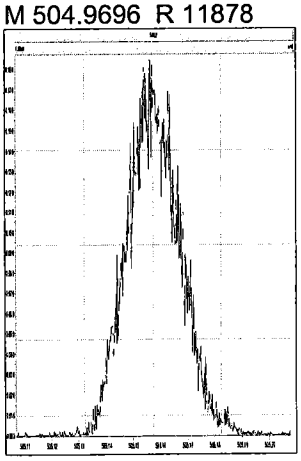
M 480.9696 R 11654



M 492.9696 R 12026



M 504.9696 R 11878



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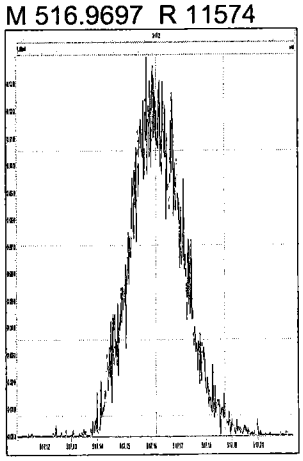

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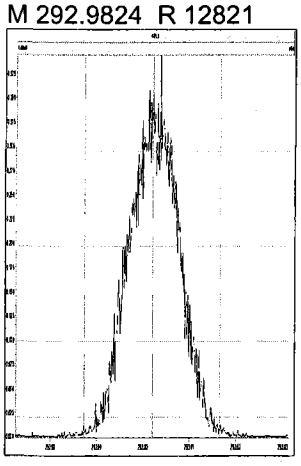

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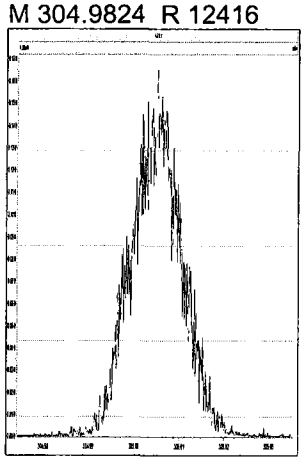
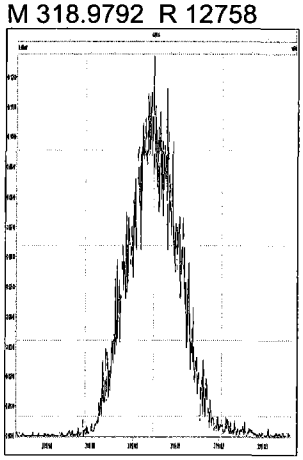


M 318.9792 R 12758



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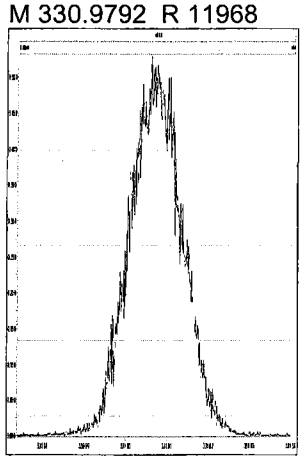

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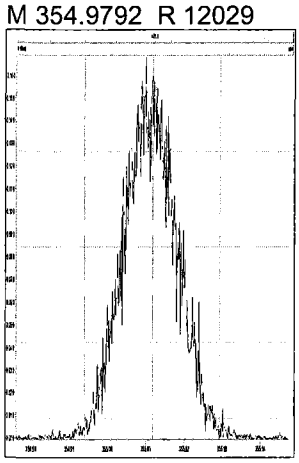

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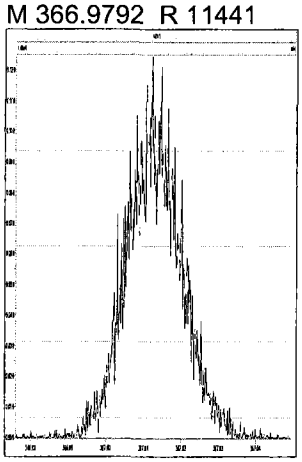
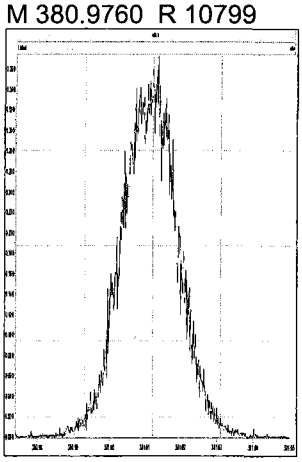
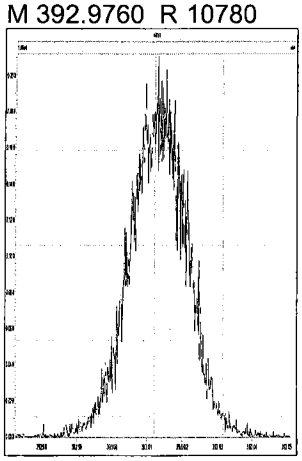


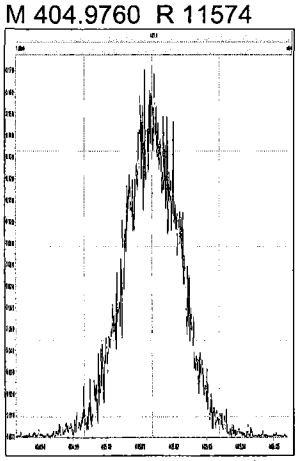
M 380.9760 R 10799



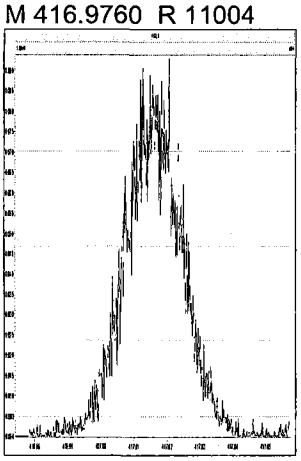
M 392.9760 R 10780



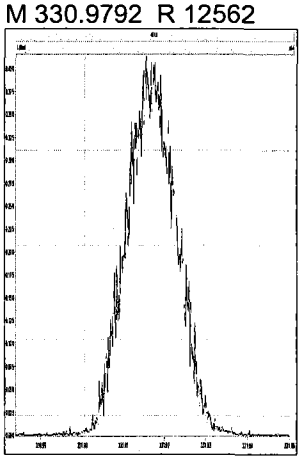
M 404.9760 R 11574



M 416.9760 R 11004



M 330.9792 R 12562



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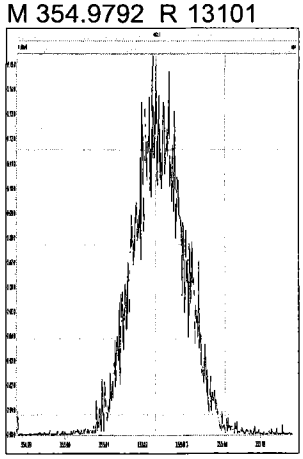

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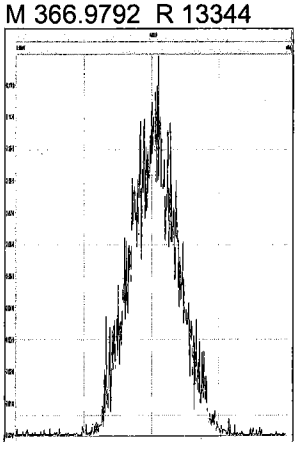

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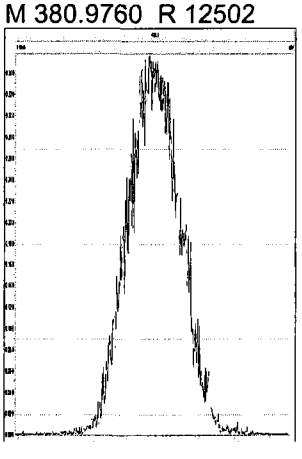

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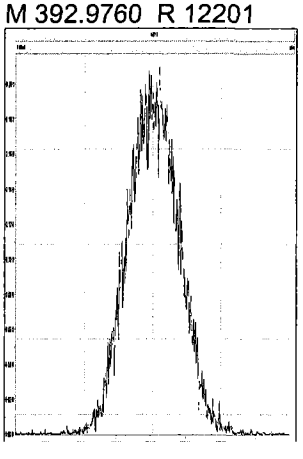
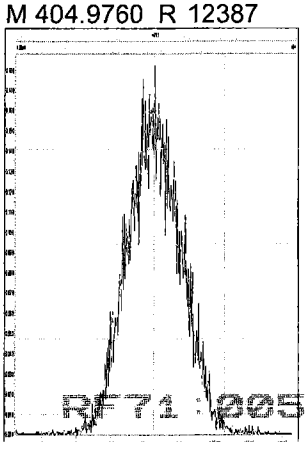


M 404.9760 R 12387



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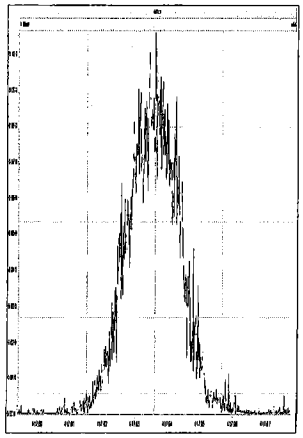

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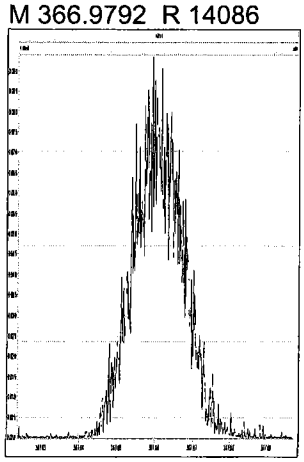
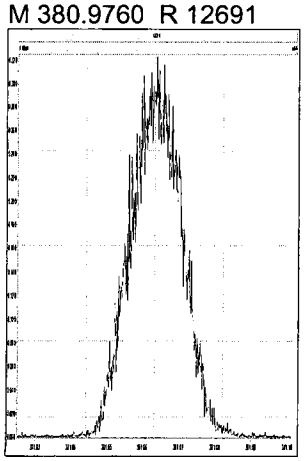


M 380.9760 R 12691



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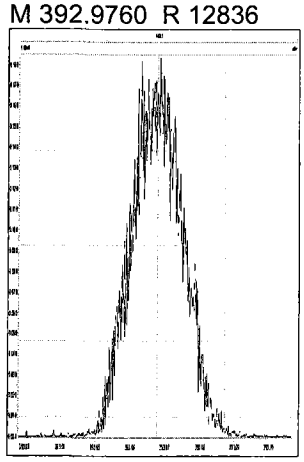
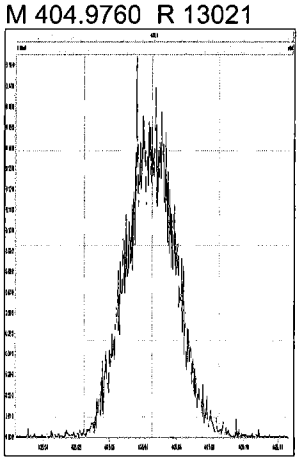
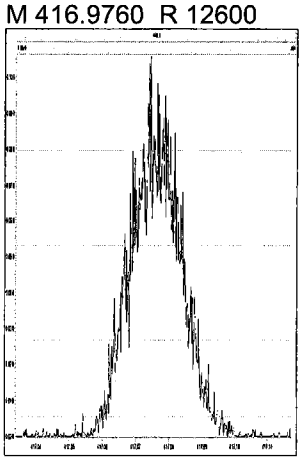


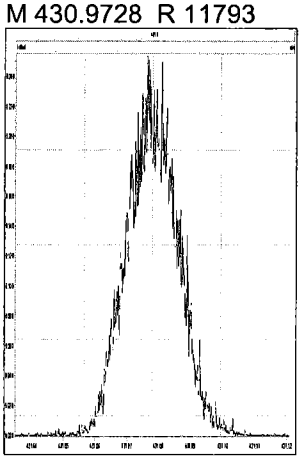
M 404.9760 R 13021



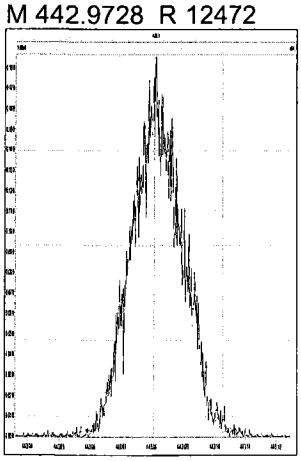
M 416.9760 R 12600



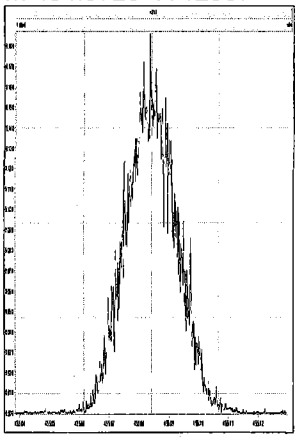
M 430.9728 R 11793



M 442.9728 R 12472



M 454.9728 R 12387



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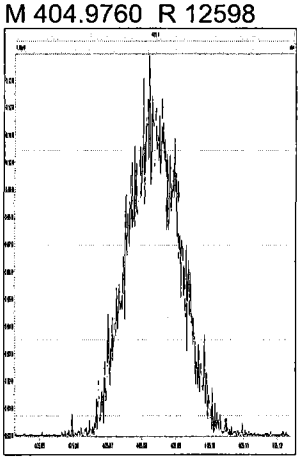

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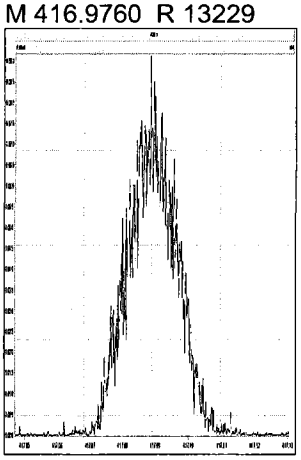
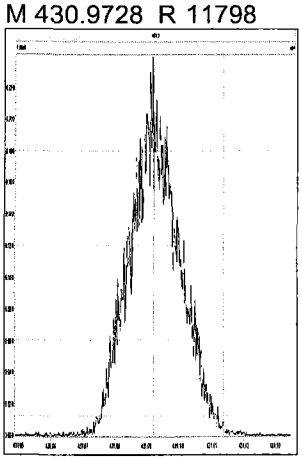


M 430.9728 R 11798



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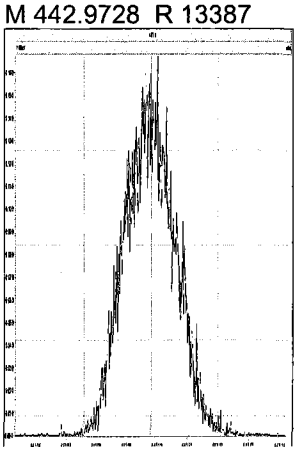

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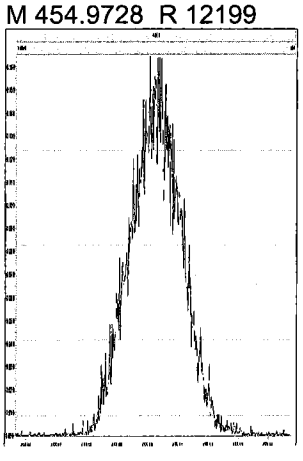
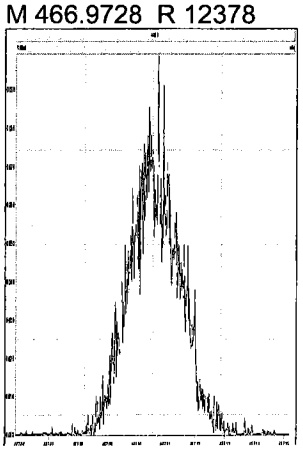
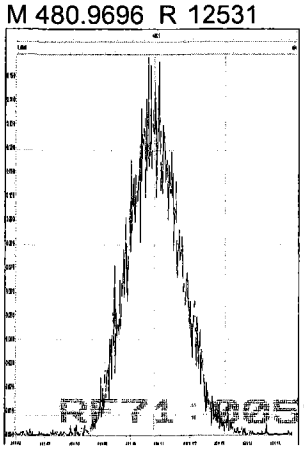


M 466.9728 R 12378



M 480.9696 R 12531



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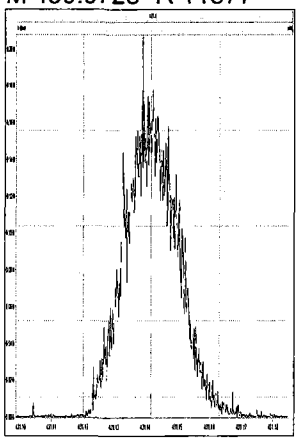

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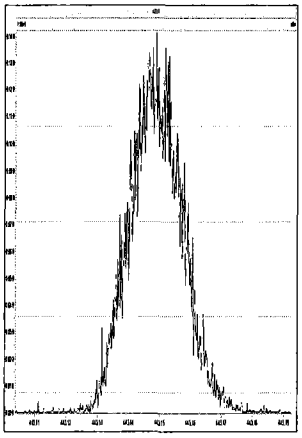

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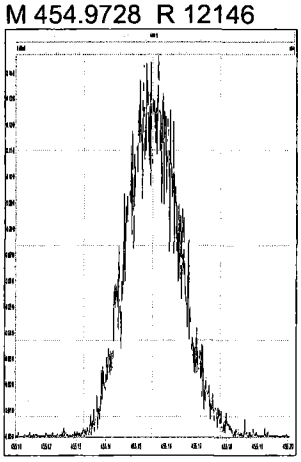
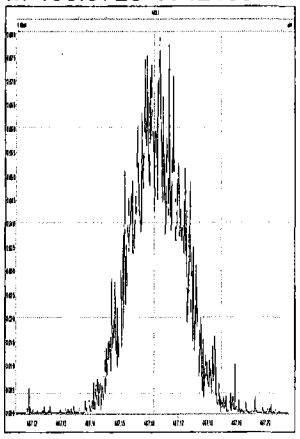
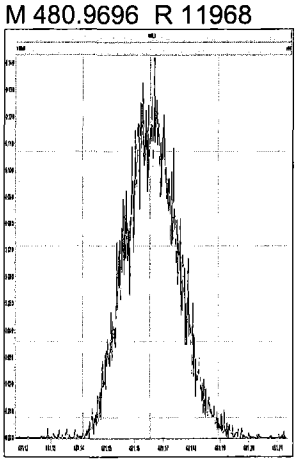


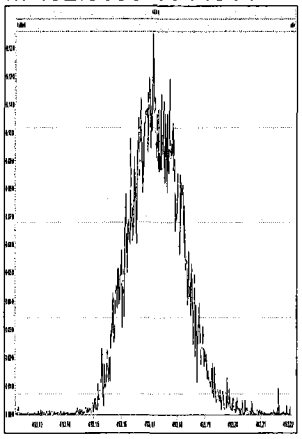
M 466.9728 R 12165



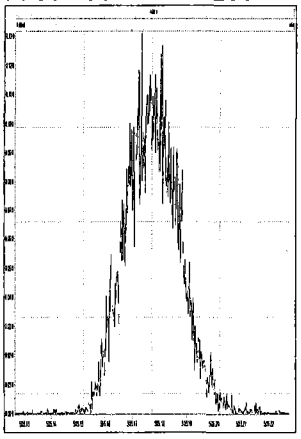
M 480.9696 R 11968



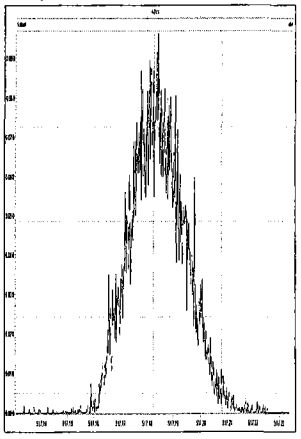
M 492.9696 R 11914

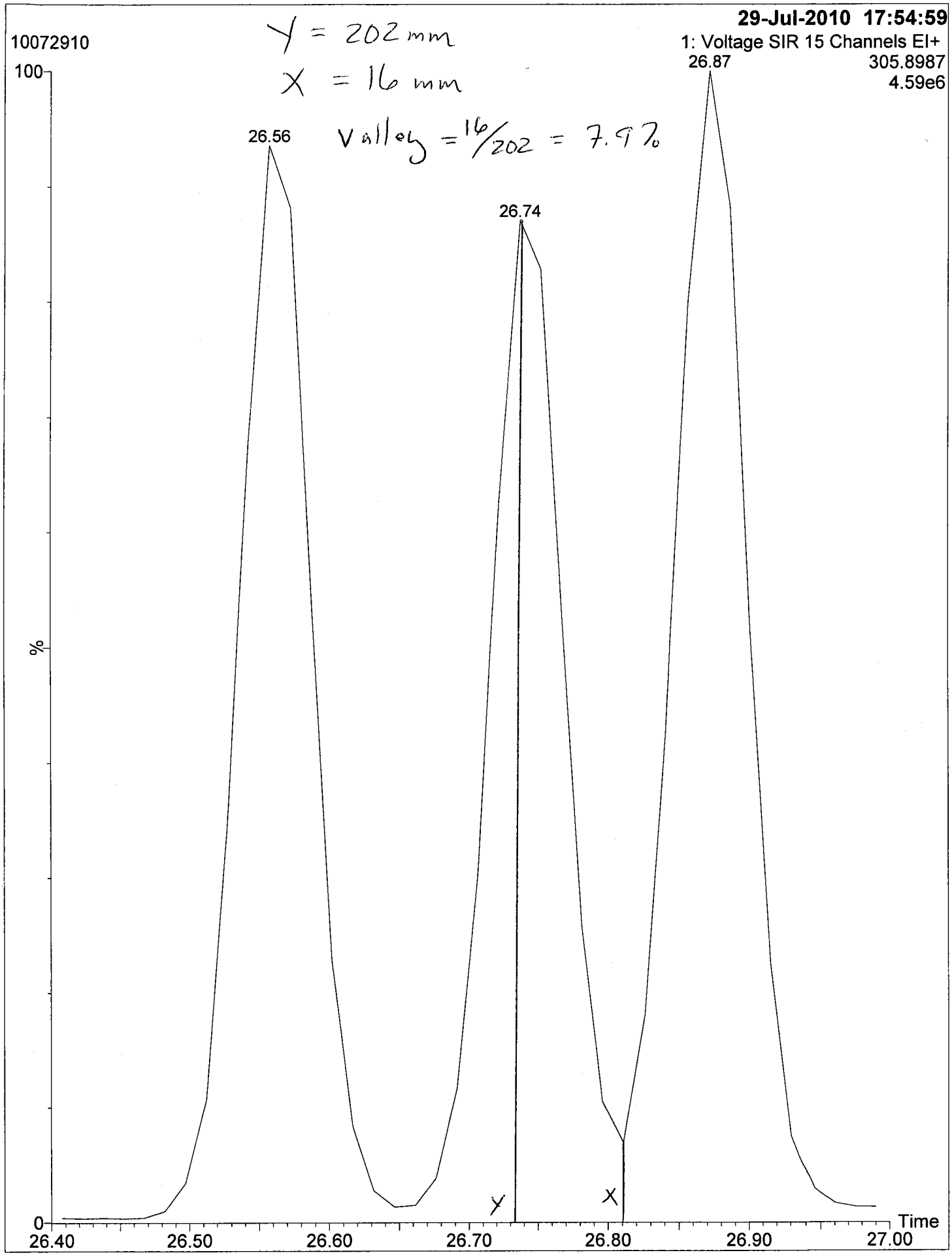


M 504.9696 R 12230

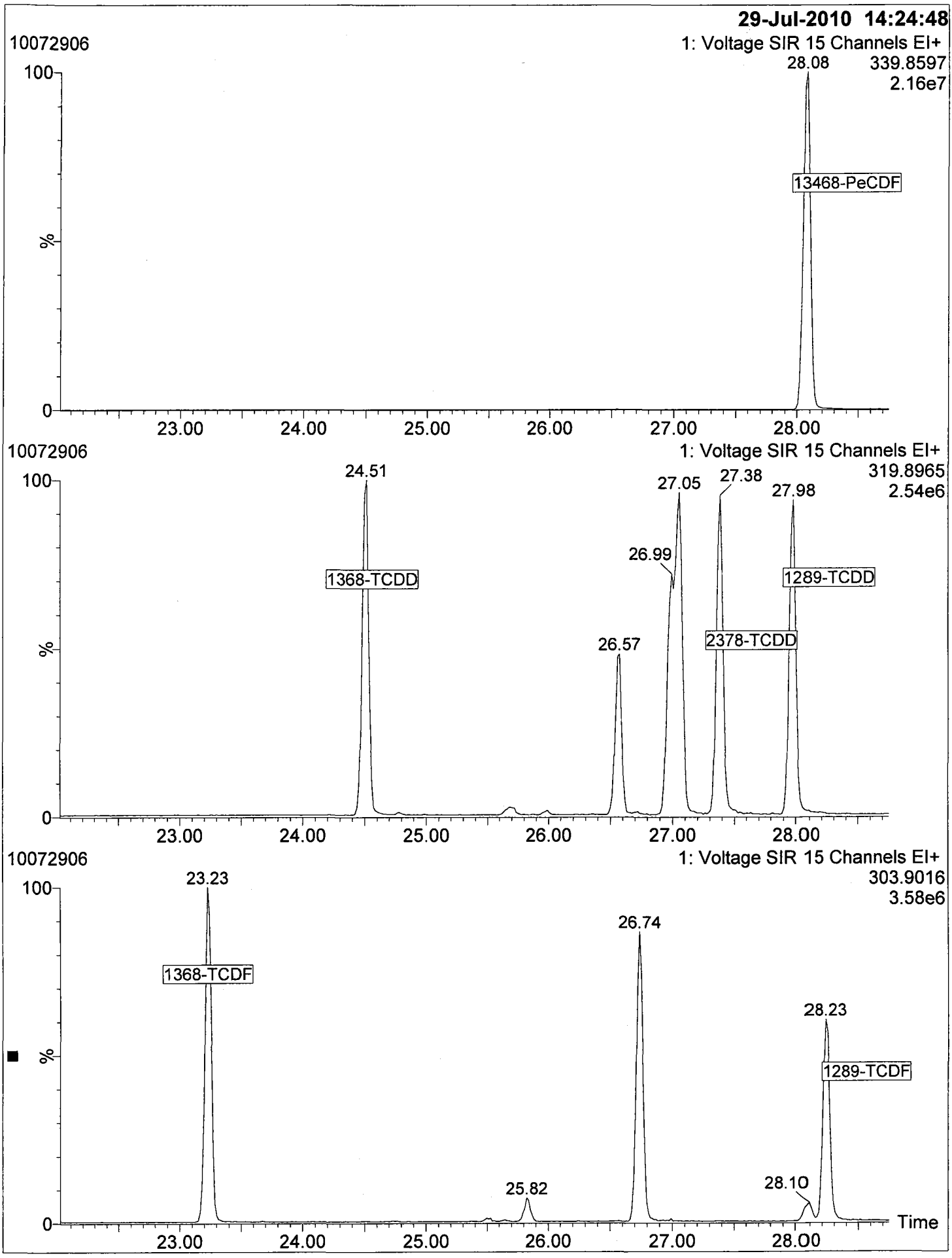


M 516.9697 R 11990

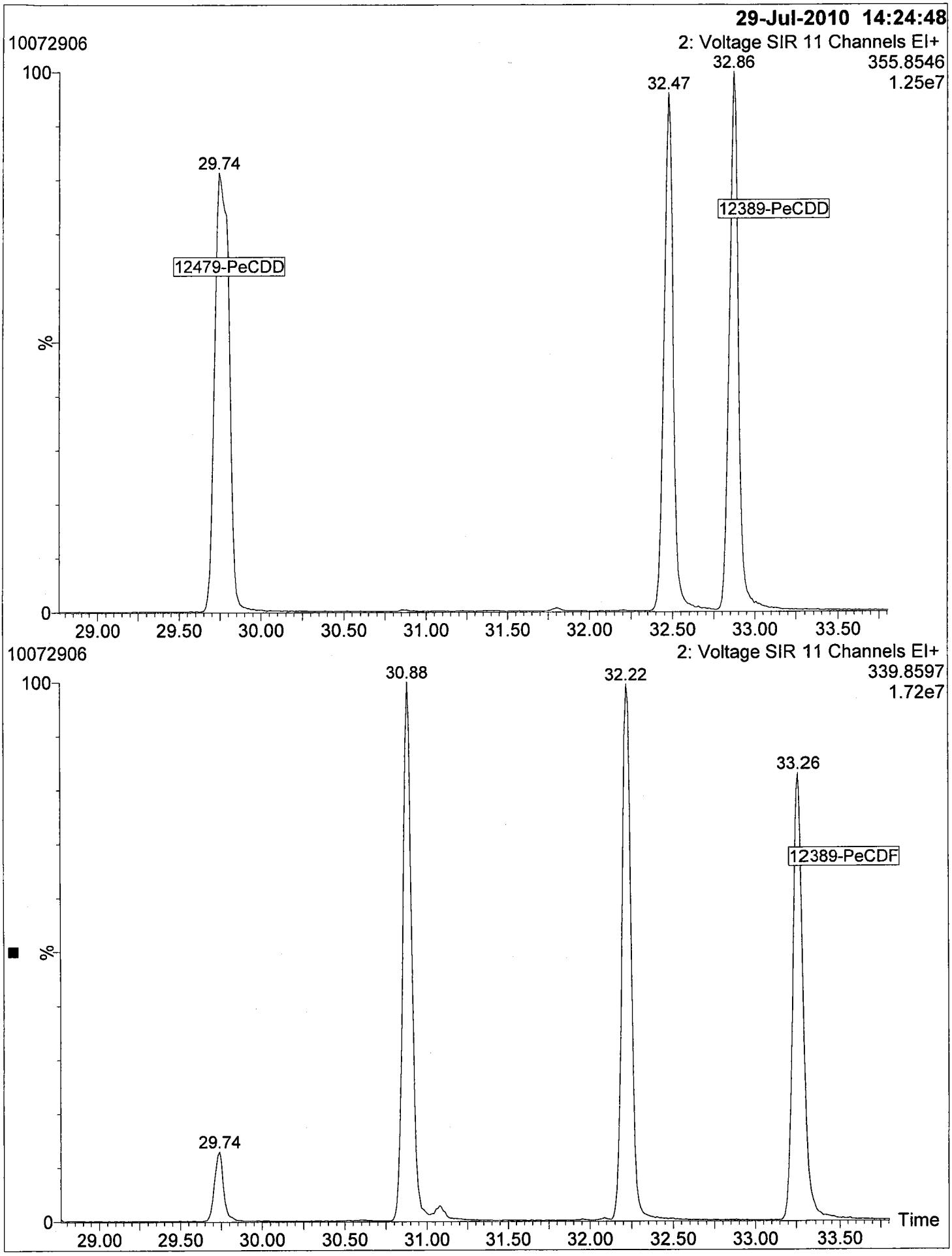



29-Jul-2010 17:54:59
10072910
1: Voltage SIR 15 Channels EI+
305.8987
4.59e6
Y = 202 mm
X = 16 mm
Valley = 16/202 = 7.9%
26.56
26.74
26.87
100
%
0
Y
X
Time
26.40
26.50
26.60
26.70
26.80
26.90
27.00

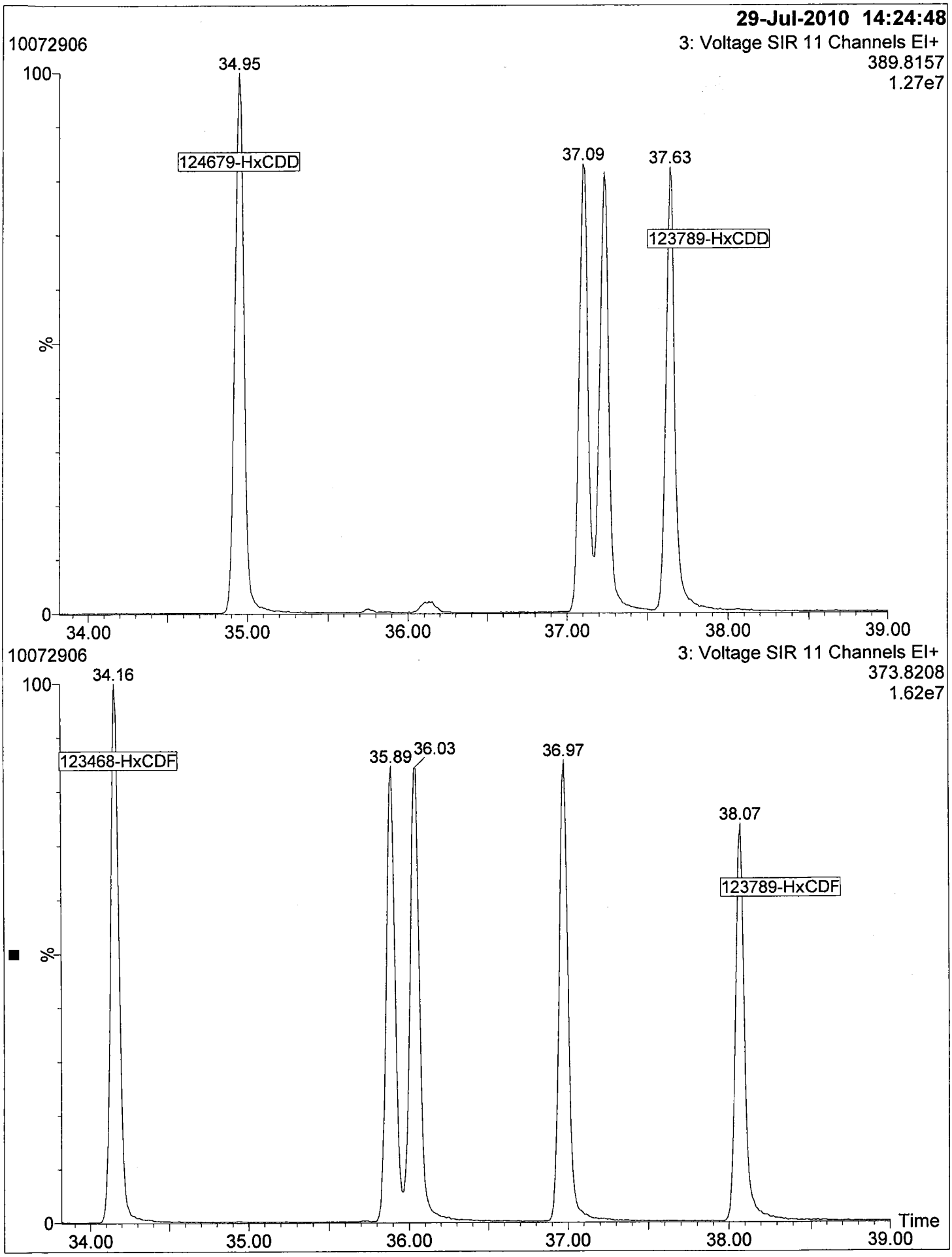
RF71 : 00522

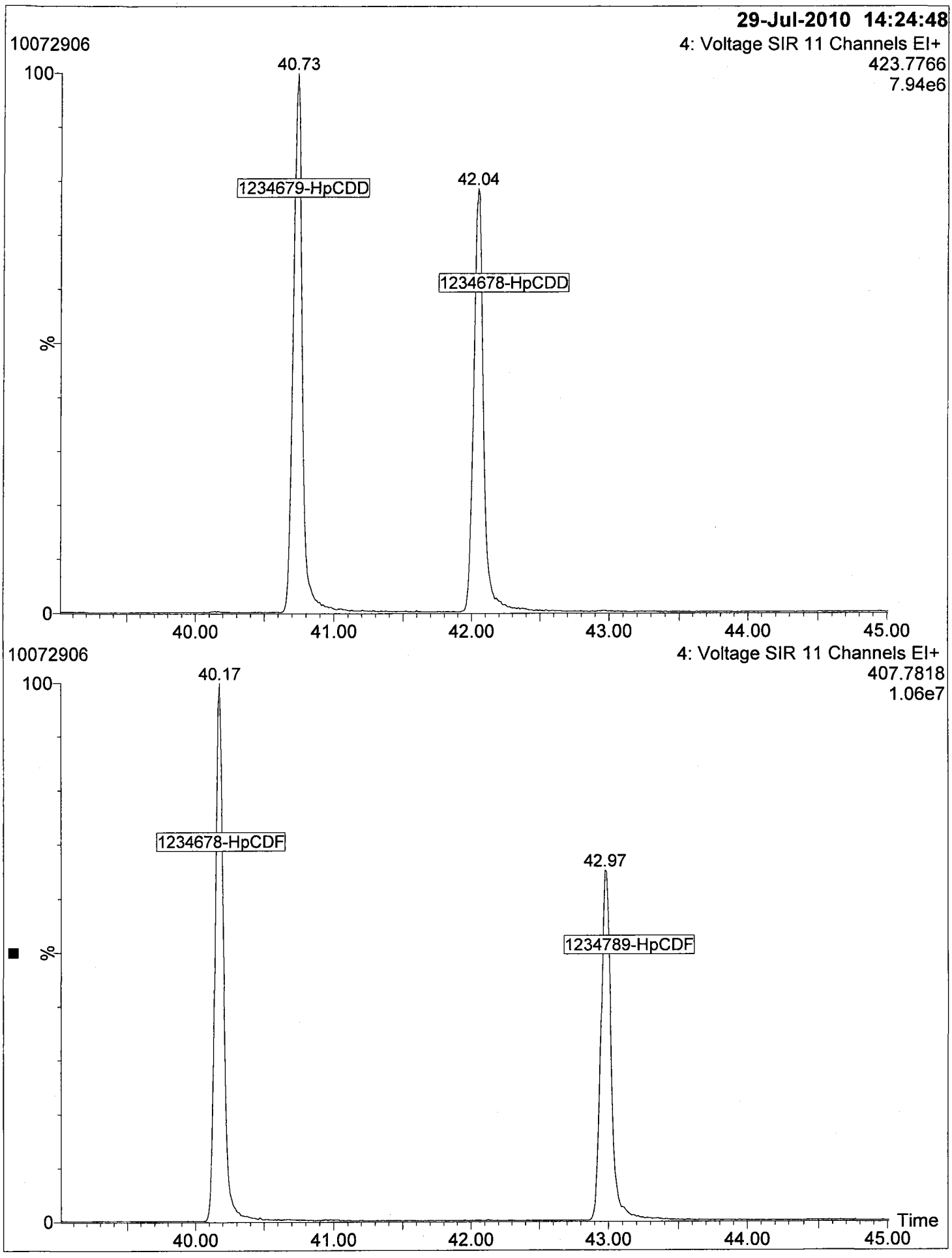

29-Jul-2010 14:24:48
10072906
1: Voltage SIR 15 Channels EI+
28.08
339.8597
2.16e7
13468-PeCDF
100
%
0
23.00
24.00
25.00
26.00
27.00
28.00
10072906
1: Voltage SIR 15 Channels EI+
319.8965
2.54e6
24.51
27.05
27.38
27.98
26.99
1368-TCDD
1289-TCDD
26.57
2378-TCDD
10072906
1: Voltage SIR 15 Channels EI+
303.9016
3.58e6
23.23
26.74
1368-TCDF
28.23
1289-TCDF
25.82
28.10
Time

RT1:00523


29-Jul-2010 14:24:48
10072906
2: Voltage SIR 11 Channels EI+
32.86
355.8546
1.25e7
32.47
29.74
12389-PeCDD
12479-PeCDD
100
%
0
29.00
29.50
30.00
30.50
31.00
31.50
32.00
32.50
33.00
33.50
10072906
2: Voltage SIR 11 Channels EI+
339.8597
1.72e7
30.88
32.22
33.26
12389-PeCDF
29.74
Time

RF71 : 00524


29-Jul-2010 14:24:48
10072906
3: Voltage SIR 11 Channels EI+
389.8157
1.27e7
34.95
124679-HxCDD
37.09
37.63
123789-HxCDD
100
%
0
34.00
35.00
36.00
37.00
38.00
39.00
10072906
3: Voltage SIR 11 Channels EI+
373.8208
1.62e7
34.16
123468-HxCDF
35.89
36.03
36.97
38.07
123789-HxCDF
100
%
0
Time
34.00
35.00
36.00
37.00
38.00
39.00


29-Jul-2010 14:24:48
10072906
4: Voltage SIR 11 Channels EI+
423.7766
7.94e6
40.73
1234679-HpCDD
42.04
1234678-HpCDD
100
%
0
40.00
41.00
42.00
43.00
44.00
45.00
10072906
4: Voltage SIR 11 Channels EI+
407.7818
1.06e7
40.17
1234678-HpCDF
42.97
1234789-HpCDF
100
%
0
Time
40.00
41.00
42.00
43.00
44.00
45.00

RF71 : 00526

Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:19:18 Pacific Daylight Time

8.4.10

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Lab: , Conditions: METHOD 8290A, User: PK

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1º Det....	%Rec	1º Ratio...	1º Rati...	1º ...	EMPC
1	1	2378-TCDF	303.9016	26.75	26.74	19170	0.871		0.52	bb	104.8	0.77	0.77	NO	0.52
2	2	12378-PeCDF	339.8597	30.89	30.87	69265	0.890		2.42	bb	97.0	1.60	1.55	NO	2.42
3	3	23478-PeCDF	339.8597	32.23	32.21	71240	0.913		2.47	bb	98.7	1.50	1.55	NO	2.47
4	4	123478-HxCDF	373.8208	35.89	35.88	65265	1.087		2.51	bd	100.4	1.24	1.24	NO	2.51
5	5	234678-HxCDF	373.8208	36.97	36.96	68156	1.066		2.48	bb	99.1	1.22	1.24	NO	2.48
6	6	123678-HxCDF	373.8208	36.03	36.02	69540	1.043		2.39	db	95.4	1.30	1.24	NO	2.39
7	7	123789-HxCDF	373.8208	38.07	38.06	56019	1.001		2.39	bd	95.7	1.23	1.24	NO	2.39
8	8	1234678-HpCDF	407.7818	40.18	40.16	61449	1.234		2.44	bb	97.5	1.08	1.05	NO	2.44
9	9	1234789-HpCDF	407.7818	42.99	42.96	51532	1.233		2.53	bb	101.3	1.02	1.05	NO	2.53
10	10	OCDF	441.7428	48.49	48.46	95697	1.128		4.76	bb	95.1	0.88	0.89	NO	4.76
11	11	2378-TCDD	319.8965	27.39	27.36	13789	1.041		0.50	bb	100.5	0.79	0.77	NO	0.50
12	12	12378-PeCDD	355.8546	32.48	32.46	50900	0.969		2.52	bb	100.9	1.61	1.55	NO	2.52
13	13	123478-HxCDD	389.8157	37.11	37.10	48322	0.967		2.51	bd	100.3	1.22	1.24	NO	2.51
14	14	123678-HxCDD	389.8157	37.24	37.22	49646	0.893		2.43	db	97.3	1.16	1.24	NO	2.43
15	15	123789-HxCDD	389.8157	37.64	37.66	47073	0.909		2.42	bb	96.9	1.25	1.24	NO	2.42
16	16	1234678-HpCDD	423.7766	42.05	42.03	40386	0.982		2.37	bb	94.9	1.03	1.05	NO	2.37
17	17	OCDD	457.7377	48.19	48.17	86056	0.985		4.90	bb	98.0	0.89	0.89	NO	4.90
18	18	13C-2378-TCDF	315.9419	26.74	26.74	4197081	1.608		100.43	bb	100.4	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.87	30.88	3210317	1.281		96.48	bb	96.5	1.59	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.22	3161187	1.261		96.47	bb	96.5	1.55	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.88	35.87	2393751	1.131		100.74	bd	100.7	0.51	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.02	36.02	2795220	1.260		105.56	dd	105.6	0.51	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.96	36.95	2582642	1.193		103.01	bb	103.0	0.52	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.06	38.05	2339058	1.097		101.48	bb	101.5	0.53	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.16	40.15	2041207	0.934		103.98	bb	104.0	0.45	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.96	42.96	1650412	0.760		103.32	bb	103.3	0.44	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.56	26.54	2598426	1.000		100.00	bb	100.0	0.78	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.36	27.38	2633850	1.041		97.39	bb	97.4	0.77	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.46	32.47	2081789	0.847		94.61	bd	94.6	1.55	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.10	37.08	1994225	0.965		98.29	bd	98.3	1.26	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.22	37.22	2283992	1.072		101.41	db	101.4	1.22	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.03	1732939	0.806		102.30	bd	102.3	1.04	1.05	NO	
33	33	13C-OCDD	469.7779	48.17	48.17	3566853	0.814		208.36	bb	104.2	0.90	0.89	NO	

Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:19:18 Pacific Daylight Time

RF71-99529

Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Lab: , Conditions: METHOD 8290A, User: PK

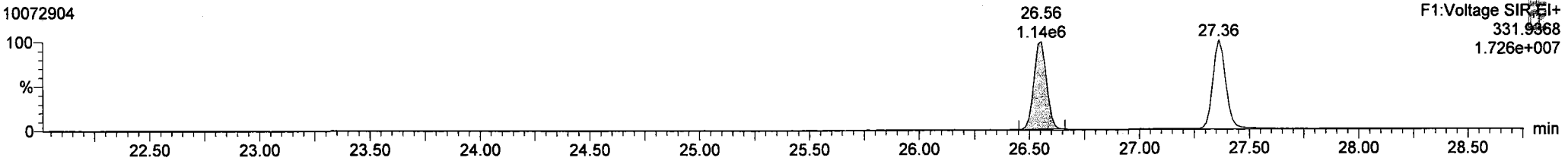
	# Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
34	34 13C-123789-HxCDD	401.8559	37.62	37.62	2101762	1.000		100.00	bb	100.0	1.20	1.24	NO	
35	35 Total-tetrafurans	303.9016		0.00		0.871		0.52						
36	36 Total-penta1	339.8597		28.08		1.141						1.55		
37	37 Total-pentafurans	339.8597		0.00		0.901		4.89						
38	38 Total-hexafurans	373.8208		0.00		1.049		9.76						
39	39 Total-heptafurans	407.7818		0.00		1.234		4.97						
40	40 Total-Furans	303.9016		0.00		1.055		24.91						
41	41 Total-tetradioxins	319.8965		0.00		1.041		0.50						
42	42 Total-pentadioxins	355.8546		0.00		0.969		2.52						
43	43 Total-hexadioxins	389.8157		0.00		0.923		7.36						
44	44 Total-heptadioxins	423.7766		0.00		0.982		2.37						
45	45 Total-Dioxins	319.8965		0.00		0.964		17.66						
46	46 Total-TEQ	319.8965		0.00				42.57						
47	47 37CL-2378-TCDD	327.8847	27.38	27.39	14766	1.166		0.49		97.5				
48	48 FUNCTION1 PFK	330.9792		0.00										
49	49 FUNCTION2 PFK	366.9792		0.00				0.00						
50	50 FUNCTION3 PFK	380.9760		0.00				0.00						
51	51 FUNCTION4 PFK	430.9728		0.00										
52	52 FUNCTION5 PFK	480.9696		0.00										
53	53 FUNCTION1 HXCDPE	375.8364		0.00										
54	54 FUNCTION1 HPCDPE	409.7974		0.00										
55	55 FUNCTION2 HPCDPE	409.7974		0.00										
56	56 FUNCTION3 OCDPE	445.7555		0.00										
57	57 FUNCTION4 NCDPE	479.7165		0.00										
58	58 FUNCTION5 DCDPE	513.6775		0.00										

Quantify Sample Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:19:18 Pacific Daylight Time

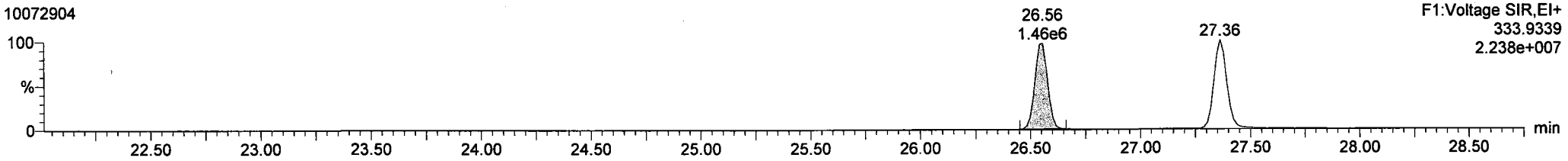
Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Description: , Lab: , User: PK

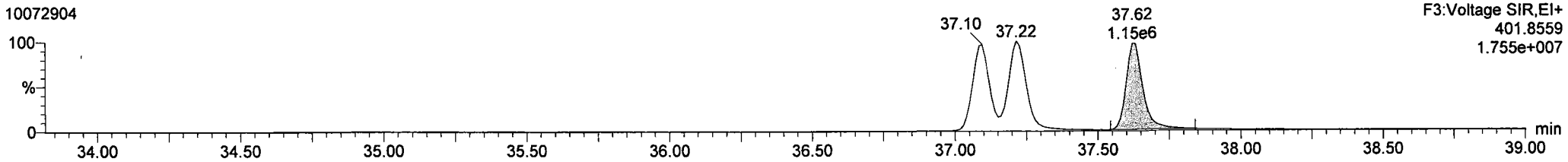
13C-1234-TCDD



13C-1234-TCDD



13C-123789-HxCDD



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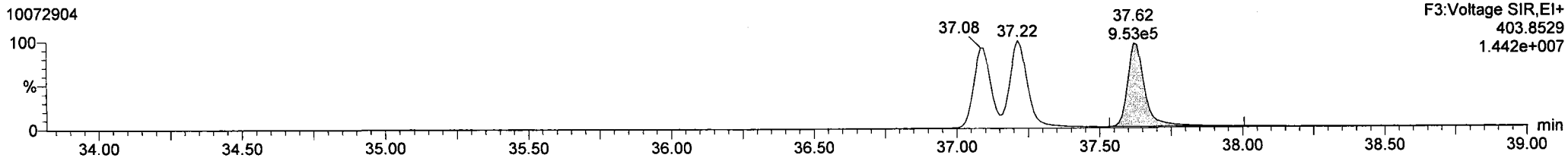
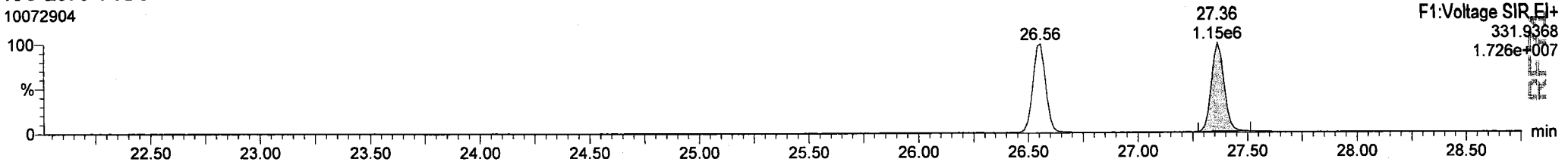


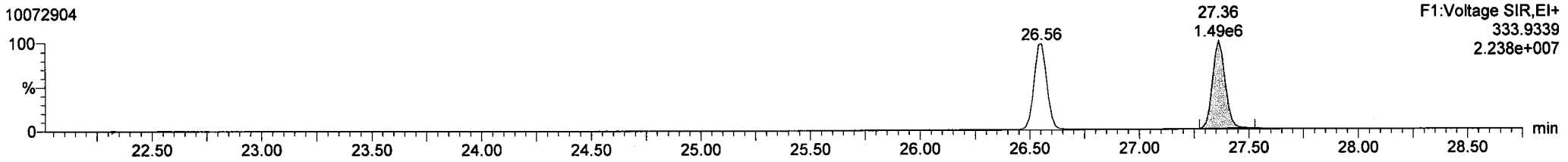
Quantify Sample Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:19:18 Pacific Daylight Time

Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Description: , Lab: , User: PK

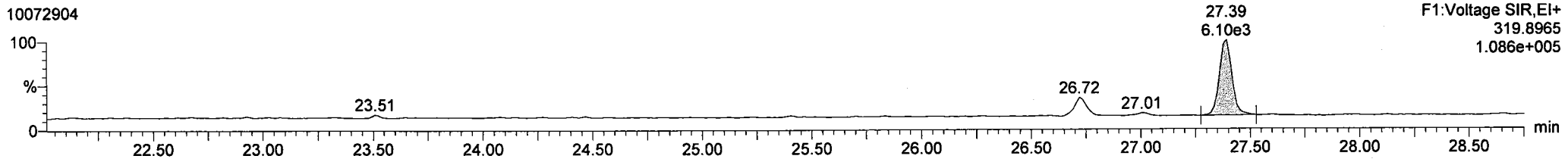
13C-2378-TCDD
10072904



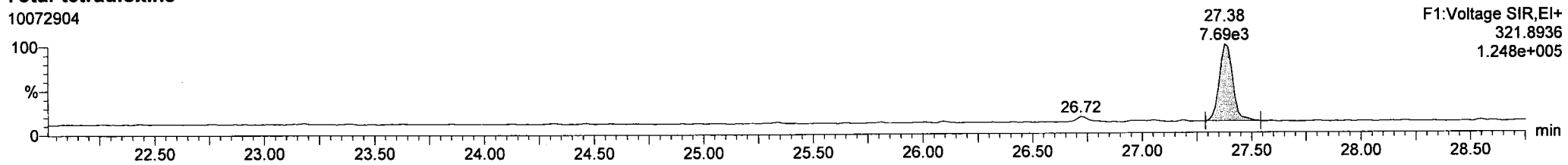
13C-2378-TCDD
10072904



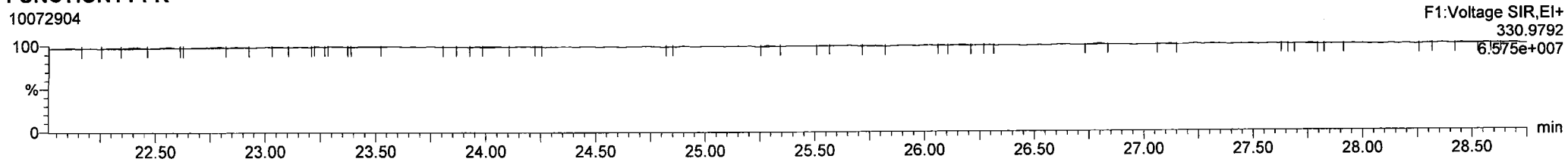
Total-tetradioxins
10072904



Total-tetradioxins
10072904

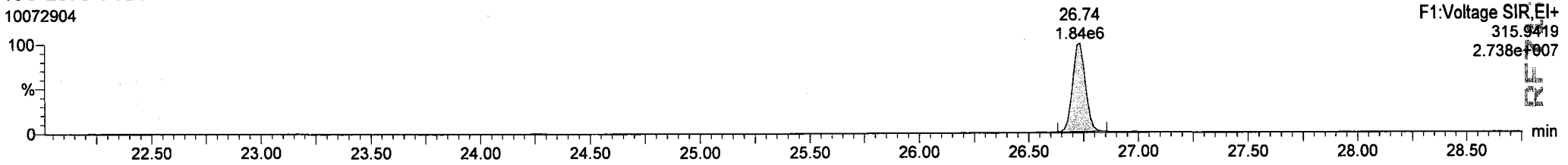


FUNCTION1 PFK
10072904

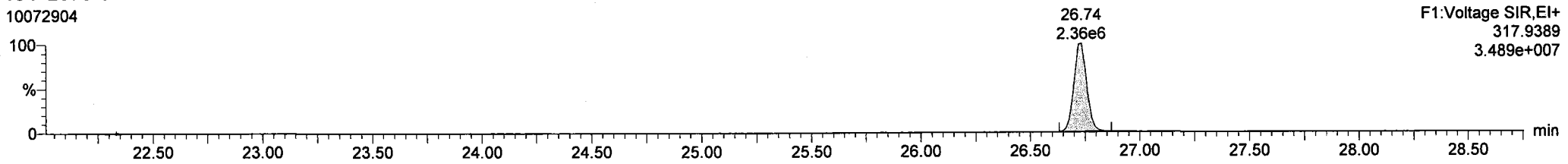


Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Description: , Lab: , User: PK

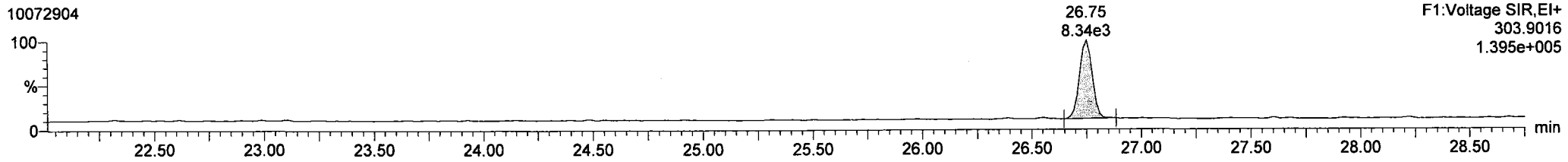
13C-2378-TCDF



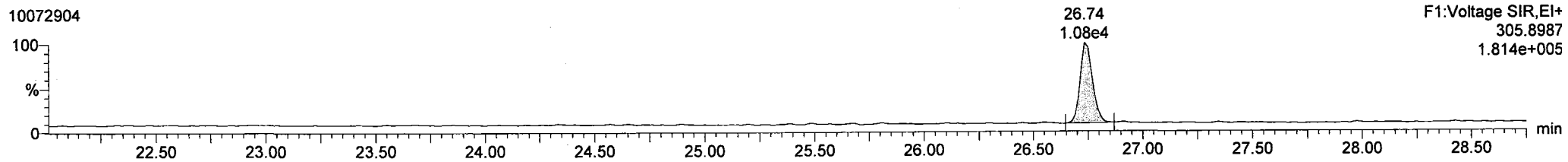
13C-2378-TCDF



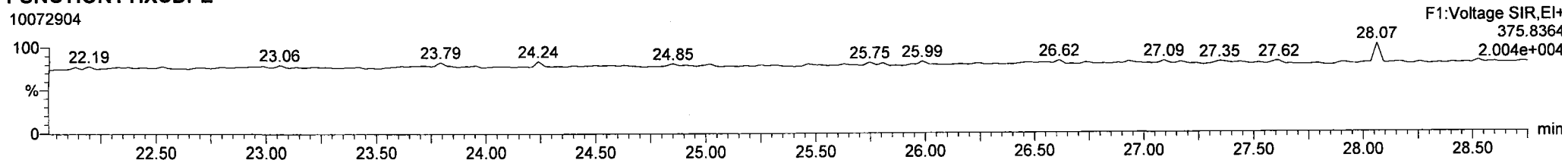
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



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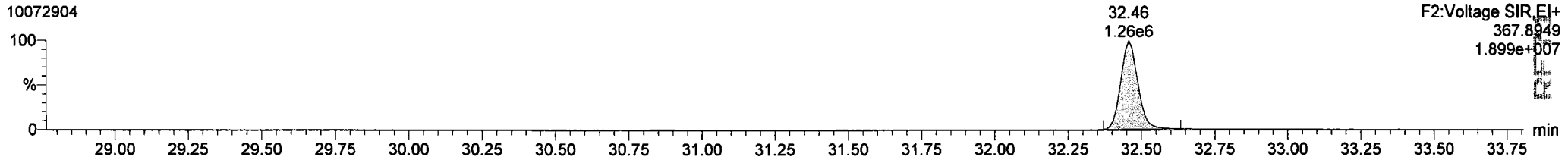
Printed: Wednesday, August 04, 2010 09:19:18 Pacific Daylight Time

Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Description: , Lab: , User: PK

13C-12378-PeCDD



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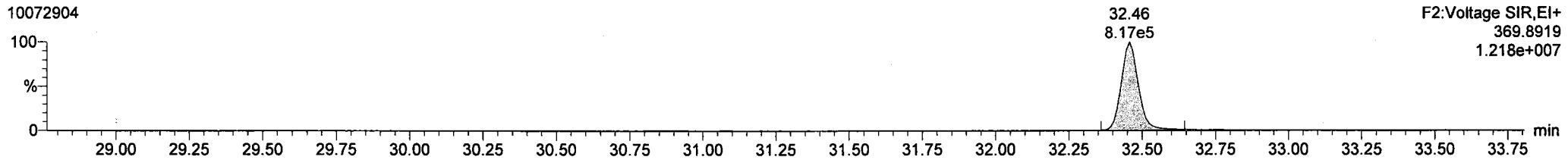
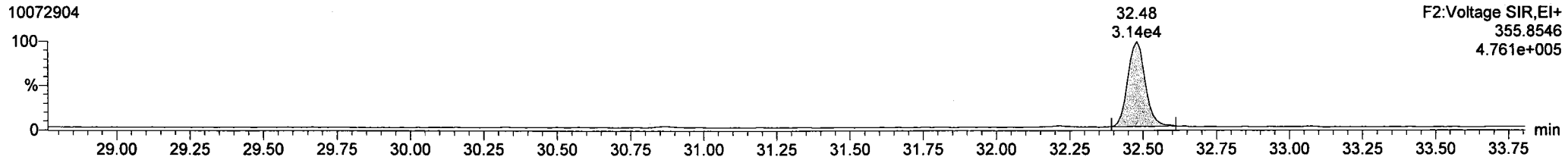
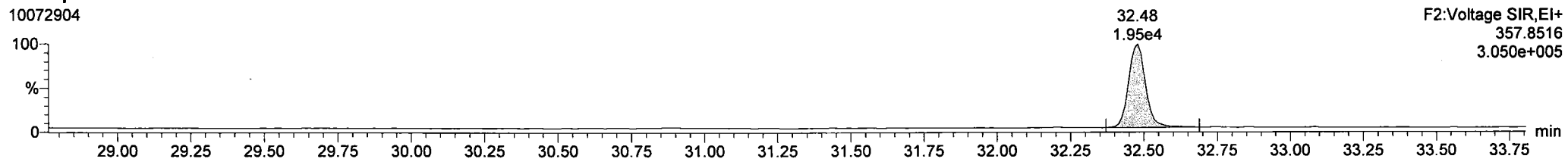


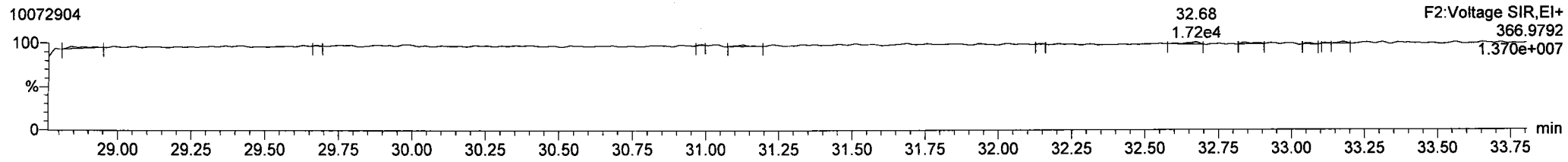
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report **MassLynx 4.1 SCN 714**
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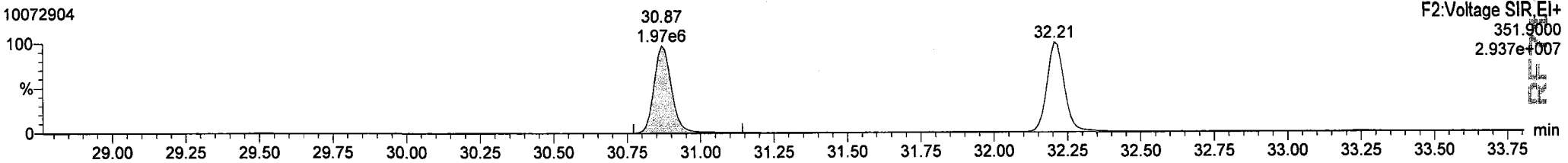
13C-12378-PeCDF



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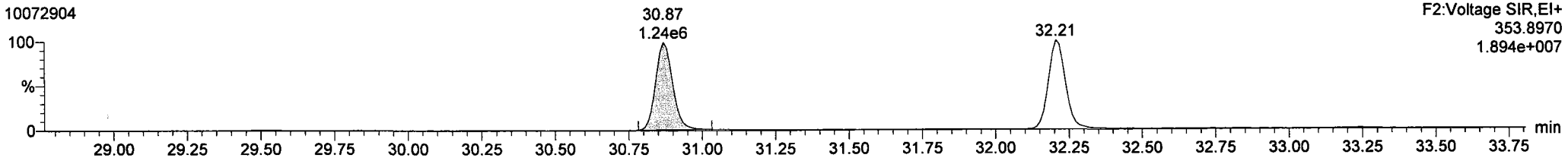

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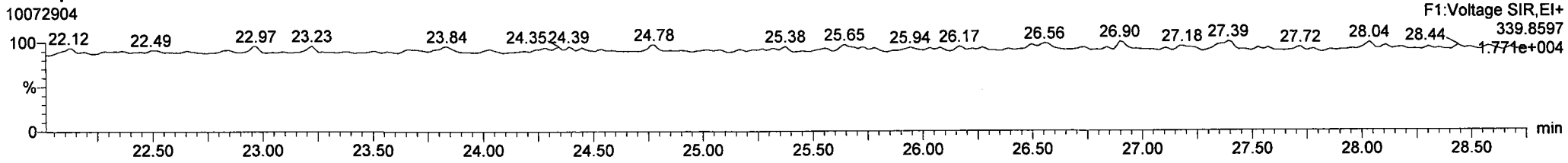
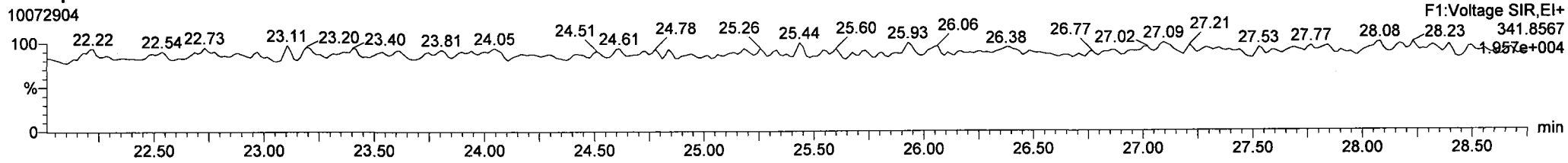
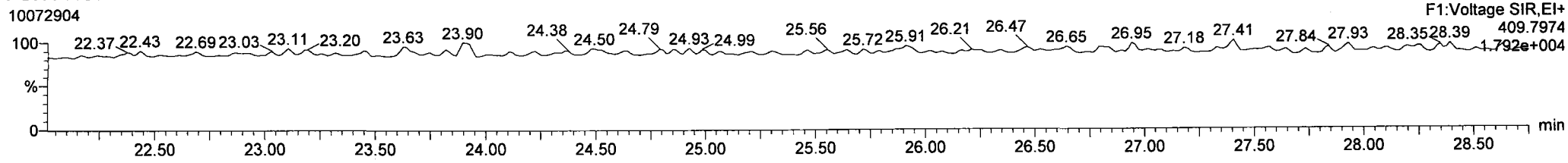


Total-penta1



FUNCTION1 HPCDPE



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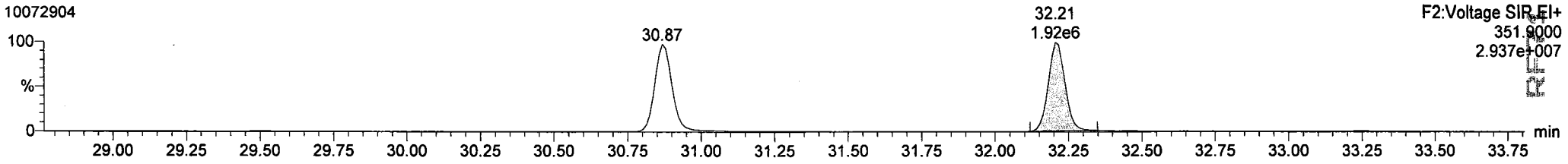
13C-23478-PeCDF



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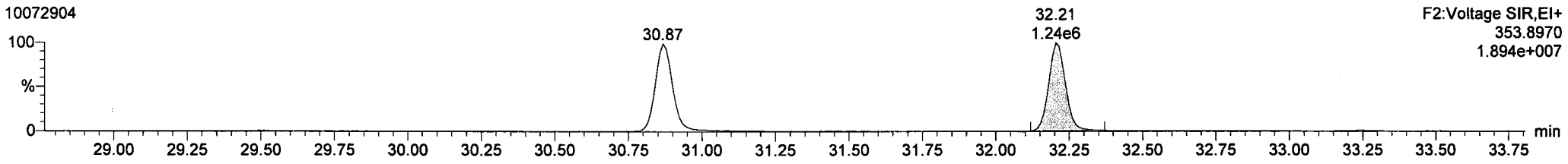
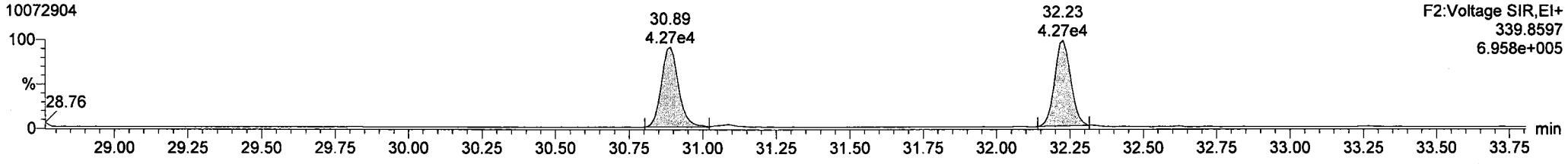
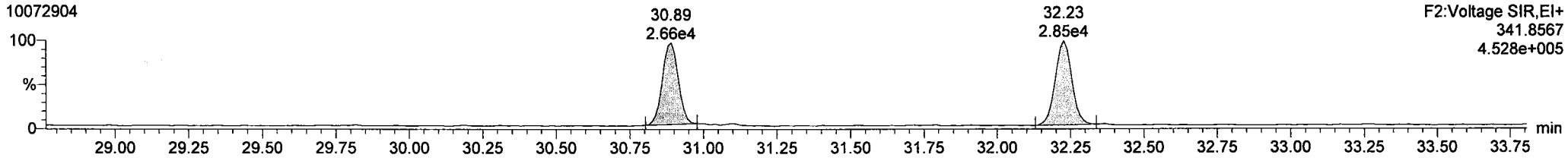


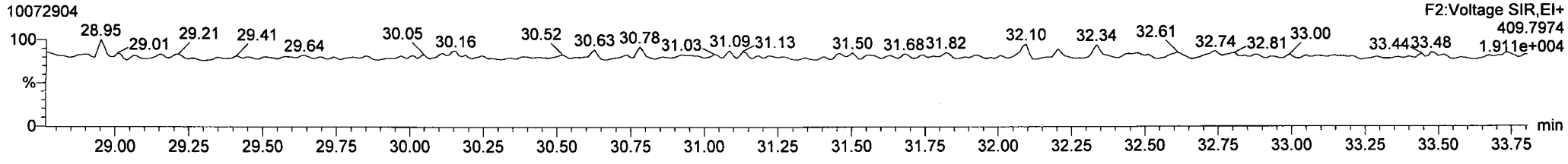
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



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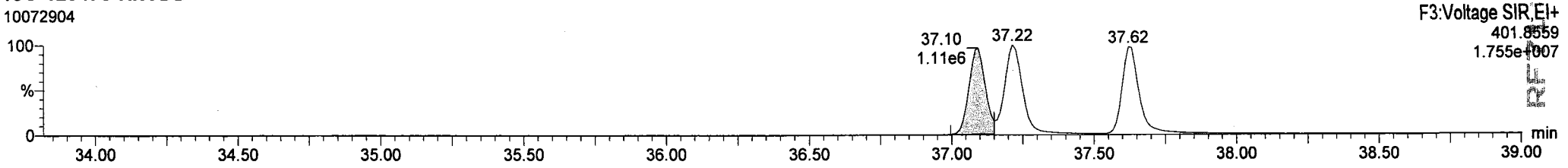
13C-123478-HxCDD



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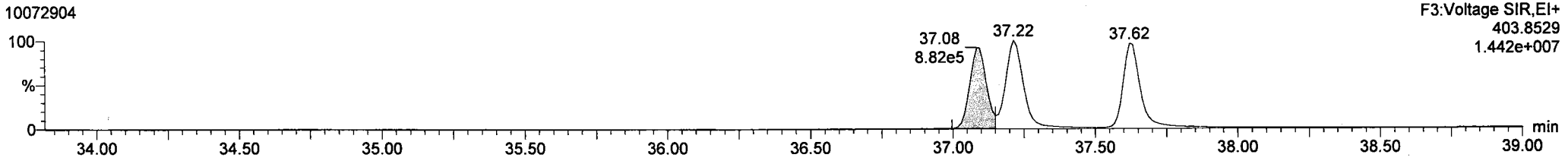
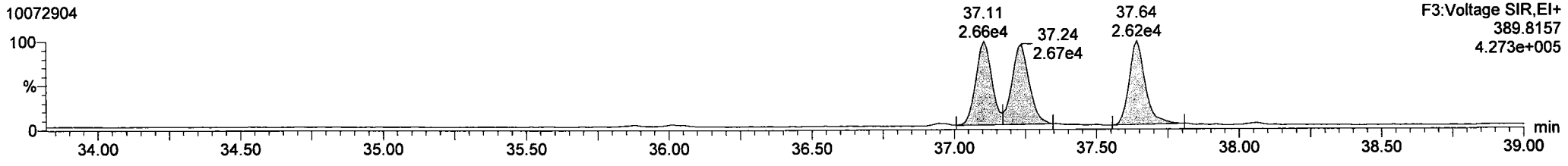
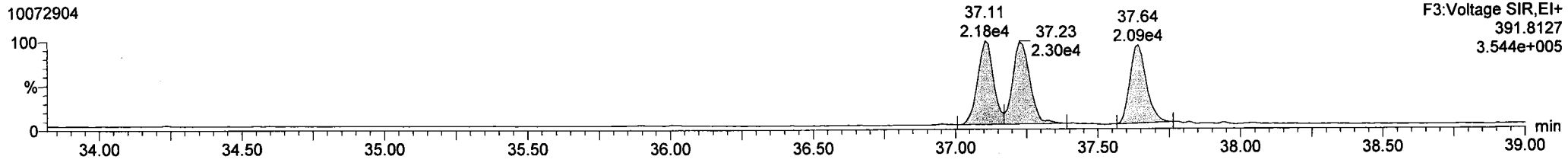


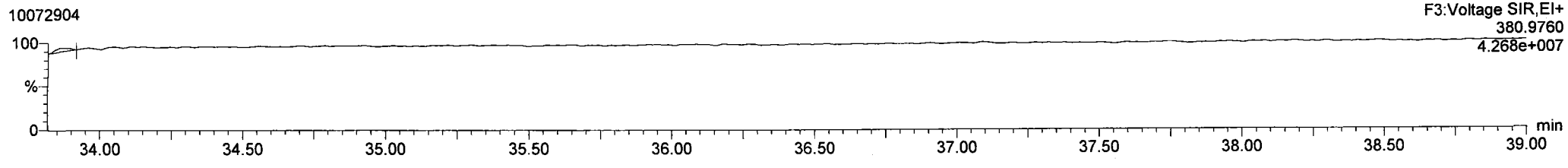
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



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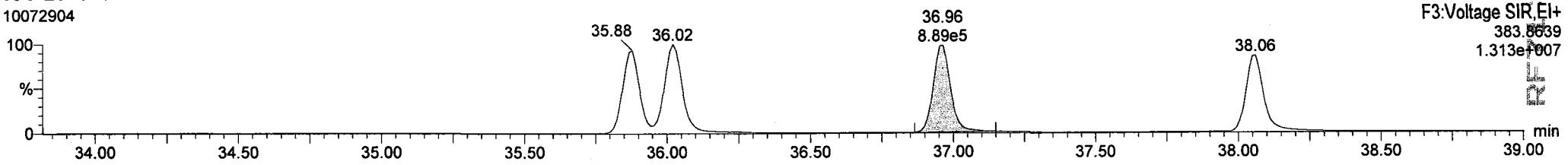
13C-234678-HxCDF



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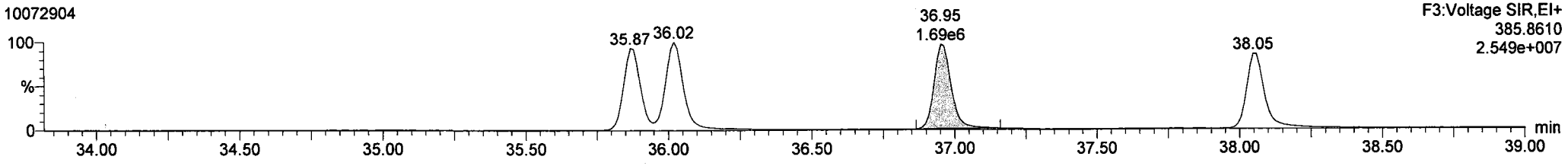
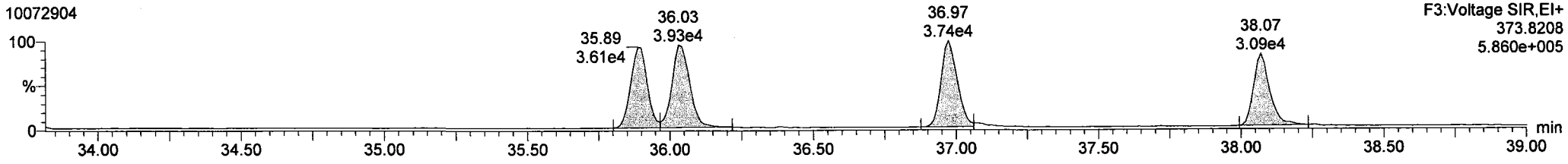
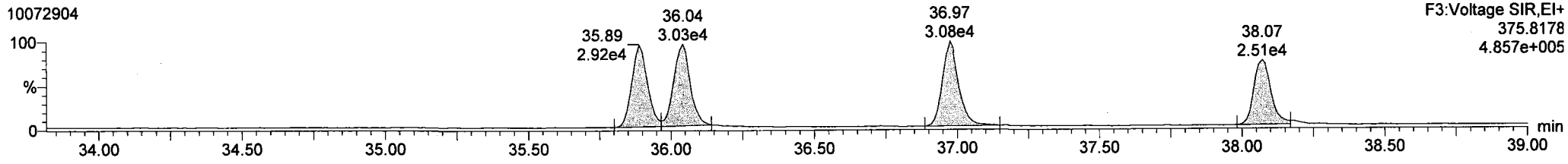


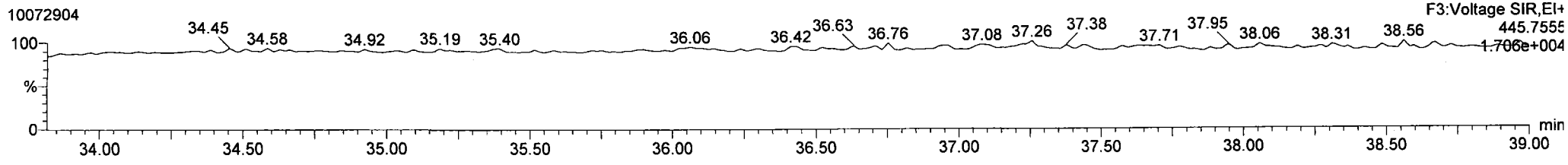
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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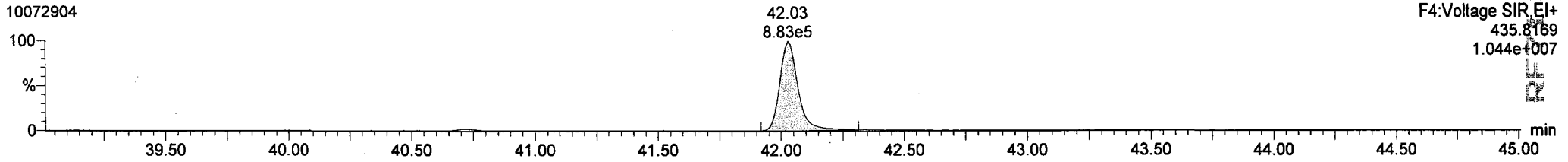
13C-1234678-HpCDD



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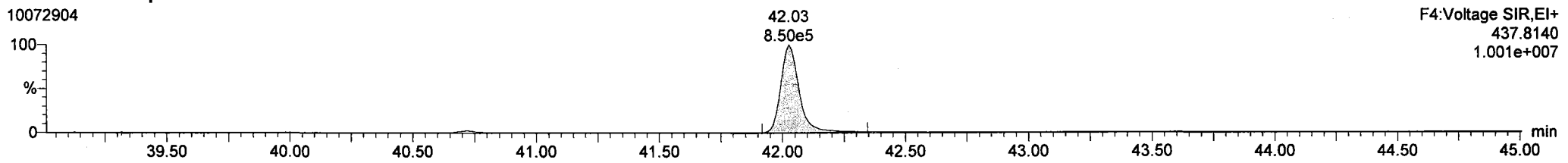
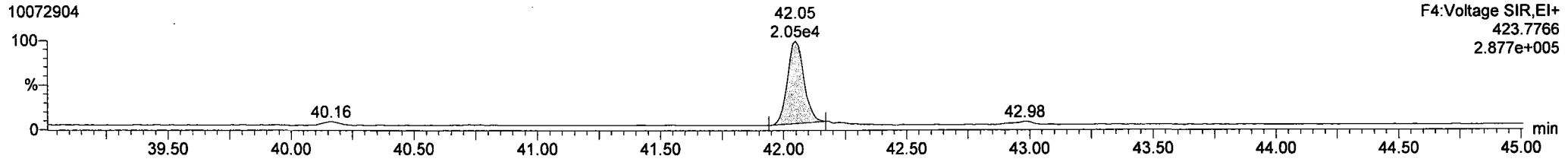
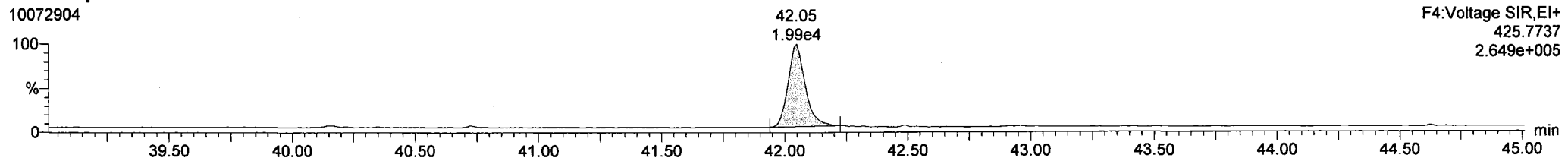


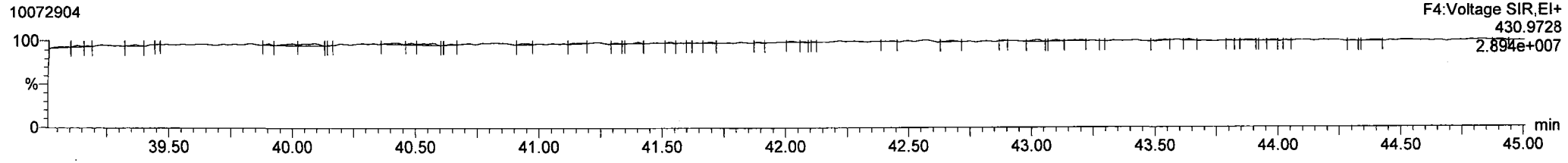
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



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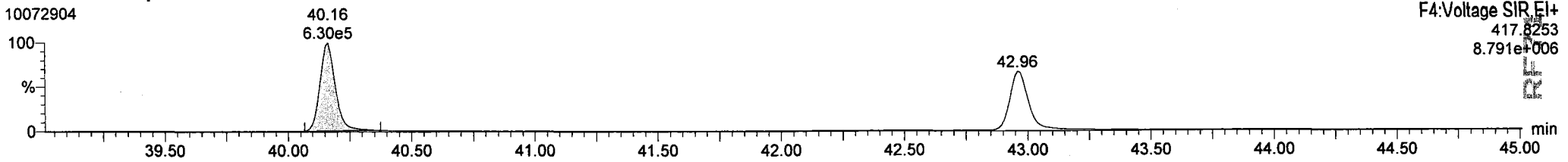

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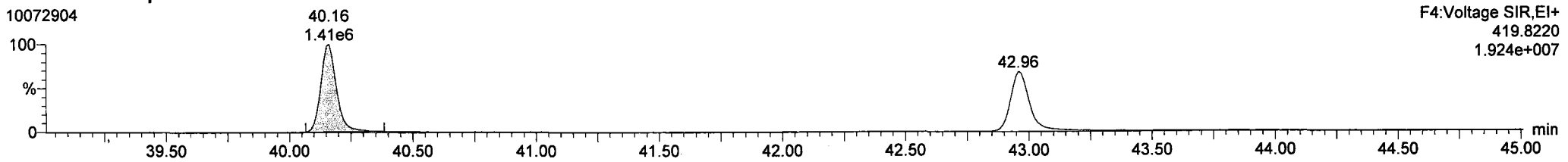
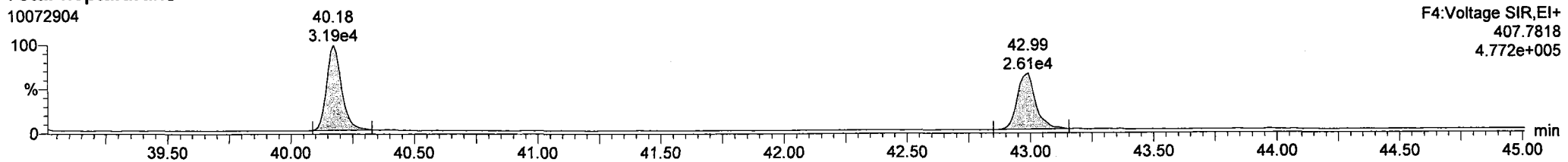


Total-heptafurans



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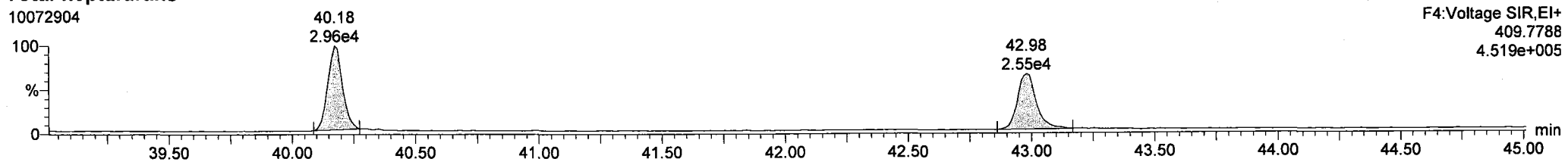
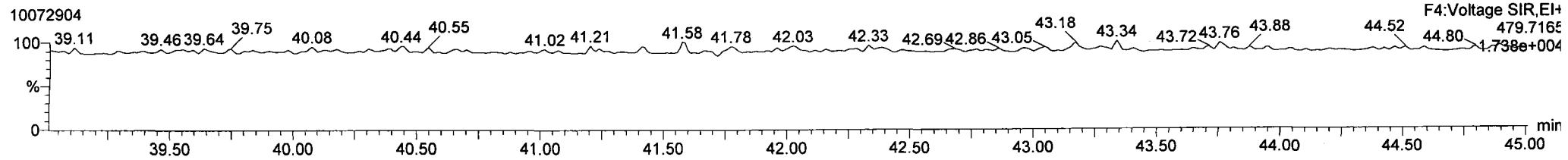


FUNCTION4 NCDPE



Quantify Sample Report **MassLynx 4.1 SCN 714**
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Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Description: , Lab: , User: PK

13C-OCDD
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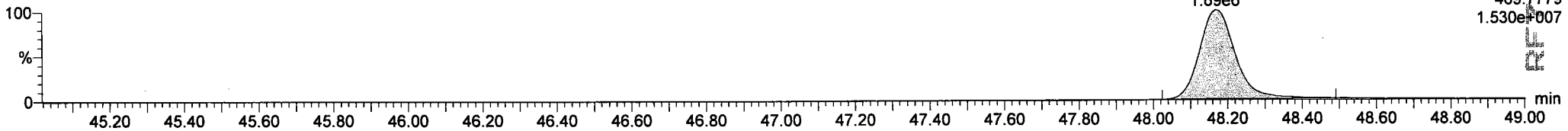
F5:Voltage SIR,EI+
469.7779
1.530e+007



13C-OCDD
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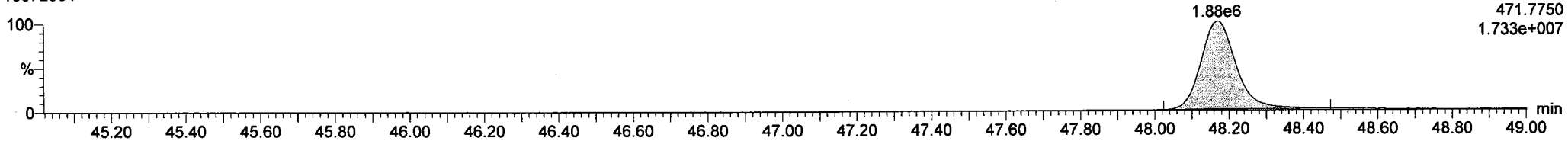
1.88e6
F5:Voltage SIR,EI+
471.7750
1.733e+007



OCDD
10072904
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F5:Voltage SIR,EI+
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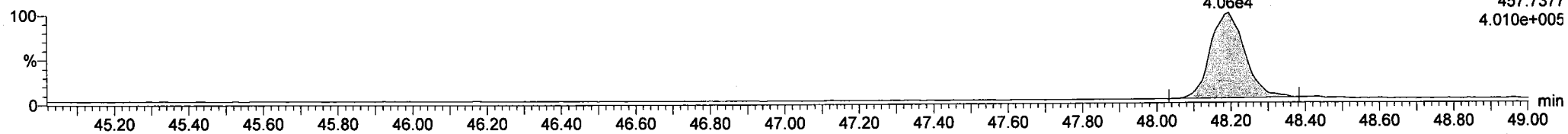

OCDD
10072904
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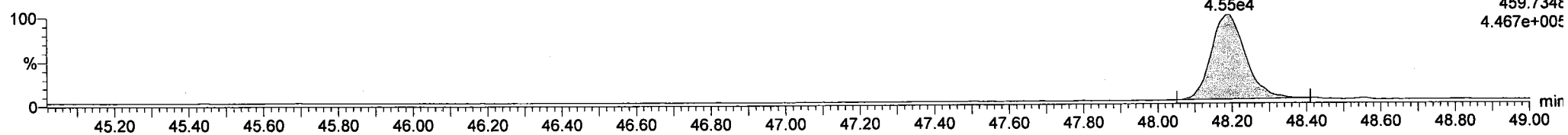
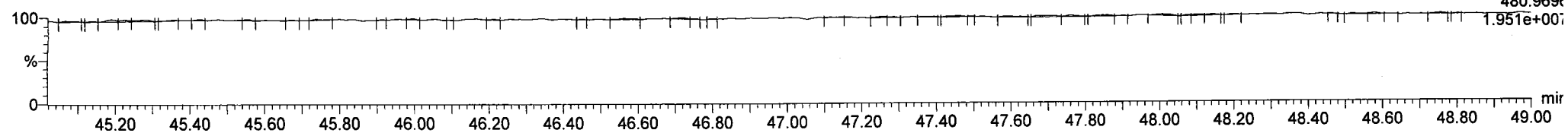
4.467e+005



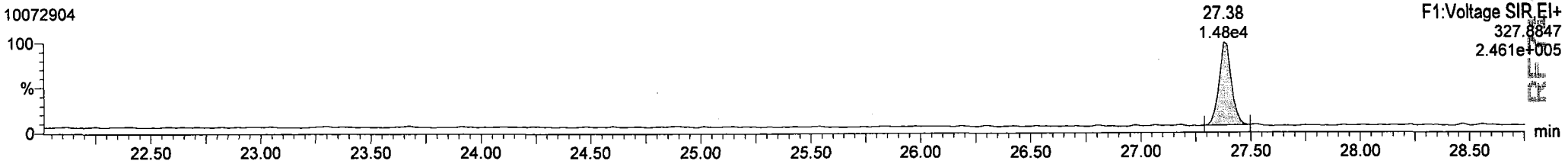
FUNCTION5 PFK
10072904
F5:Voltage SIR,EI+
480.9696
1.951e+007



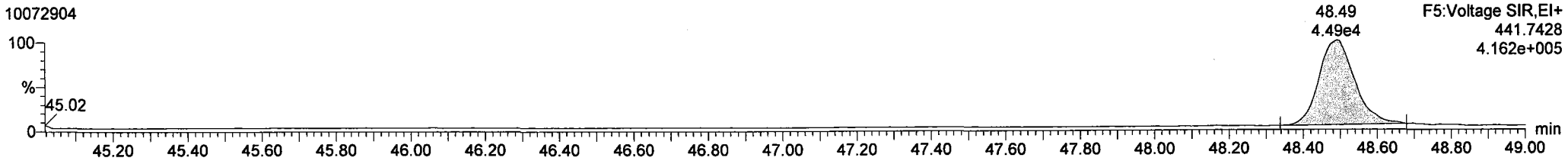
Quantify Sample Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:19:18 Pacific Daylight Time

Name: 10072904, Date: 29-Jul-2010, Time: 12:43:20, ID: CS1, Description: , Lab: , User: PK

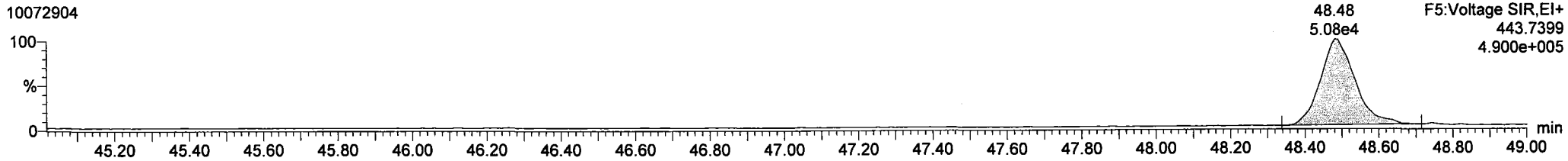
37CL-2378-TCDD



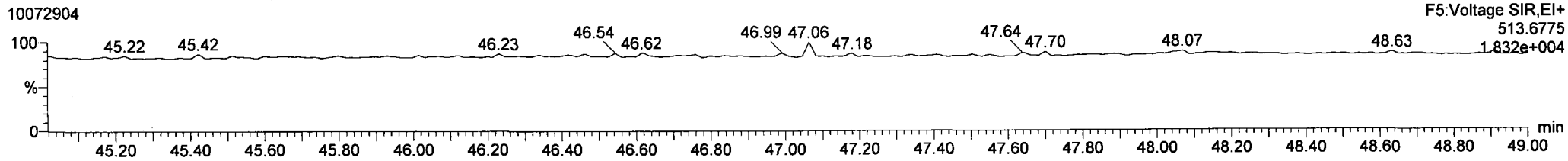
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

RF71 : 69514

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Lab: , Conditions: METHOD 8290A, User: PK

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
1	1	2378-TCDF	303.9016	26.74	26.72	83694	0.871		1.99	bb	99.7	0.73	0.77	NO	1.99
2	2	12378-PeCDF	339.8597	30.88	30.87	327932	0.890		9.67	bd	96.7	1.51	1.55	NO	9.67
3	3	23478-PeCDF	339.8597	32.22	32.21	330784	0.913		9.82	bb	98.2	1.50	1.55	NO	9.82
4	4	123478-HxCDF	373.8208	35.89	35.87	292127	1.087		9.87	bd	98.7	1.22	1.24	NO	9.87
5	5	234678-HxCDF	373.8208	36.97	36.95	304478	1.066		9.94	bd	99.4	1.27	1.24	NO	9.94
6	6	123678-HxCDF	373.8208	36.03	36.02	317027	1.043		10.05	db	100.5	1.21	1.24	NO	10.05
7	7	123789-HxCDF	373.8208	38.07	38.05	259762	1.001		9.78	bd	97.8	1.24	1.24	NO	9.78
8	8	1234678-HpCDF	407.7818	40.17	40.15	277247	1.234		10.05	bd	100.5	1.00	1.05	NO	10.05
9	9	1234789-HpCDF	407.7818	42.98	42.96	220061	1.233		9.95	bd	99.5	1.02	1.05	NO	9.95
10	10	OCDF	441.7428	48.49	48.46	407244	1.128		19.50	bd	97.5	0.89	0.89	NO	19.50
11	11	2378-TCDD	319.8965	27.38	27.35	65640	1.041		2.03	bb	101.5	0.75	0.77	NO	2.03
12	12	12378-PeCDD	355.8546	32.47	32.46	235977	0.969		9.84	bd	98.4	1.54	1.55	NO	9.84
13	13	123478-HxCDD	389.8157	37.11	37.08	219432	0.967		9.83	bd	98.3	1.22	1.24	NO	9.83
14	14	123678-HxCDD	389.8157	37.23	37.21	228560	0.893		9.78	dd	97.8	1.26	1.24	NO	9.78
15	15	123789-HxCDD	389.8157	37.63	37.66	219447	0.909		9.81	bb	98.1	1.23	1.24	NO	9.81
16	16	1234678-HpCDD	423.7766	42.05	42.03	187024	0.982		10.11	bd	101.1	1.01	1.05	NO	10.11
17	17	OCDD	457.7377	48.19	48.17	360814	0.985		19.79	bd	98.9	0.90	0.89	NO	19.79
18	18	13C-2378-TCDF	315.9419	26.72	26.72	4815995	1.608		98.82	bb	98.8	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.87	30.87	3810631	1.281		98.20	bd	98.2	1.54	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.21	3690053	1.261		96.56	bb	96.6	1.54	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.87	35.87	2723696	1.131		101.56	bd	101.6	0.51	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.02	36.02	3024747	1.260		101.22	db	101.2	0.53	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.95	36.95	2875167	1.193		101.62	bb	101.6	0.51	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.05	38.05	2653660	1.097		102.01	bb	102.0	0.52	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.15	40.15	2235754	0.934		100.92	bb	100.9	0.43	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.96	42.96	1792922	0.760		99.45	bb	99.5	0.45	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.54	26.54	3030222	1.000		100.00	bb	100.0	0.79	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.35	27.36	3104708	1.041		98.45	bb	98.4	0.78	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.46	32.46	2473600	0.847		96.39	bd	96.4	1.54	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.08	37.08	2309346	0.965		100.86	bd	100.9	1.27	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.21	37.21	2615812	1.072		102.91	db	102.9	1.24	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.03	1884255	0.806		98.56	bb	98.6	1.06	1.05	NO	
33	33	13C-OCDD	469.7779	48.17	48.17	3701912	0.814		191.62	bb	95.8	0.88	0.89	NO	

Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

RF71-0951-2

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Lab: , Conditions: METHOD 8290A, User: PK

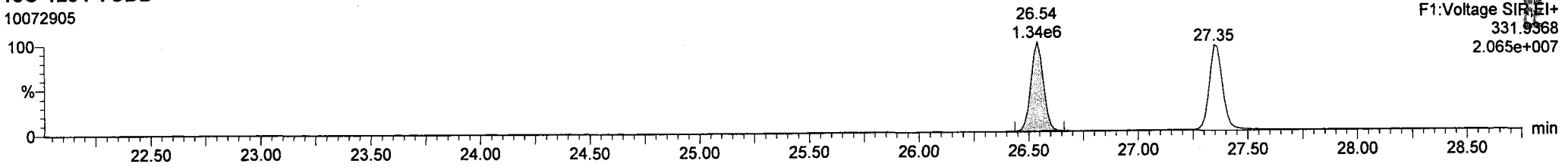
	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
34	34	13C-123789-HxCDD	401.8559	37.62	37.62	2371963	1.000		100.00	bb	100.0	1.23	1.24	NO	
35	35	Total-tetrafurans	303.9016		0.00		0.871		1.99						
36	36	Total-penta1	339.8597		28.08		1.141						1.55		
37	37	Total-pentafurans	339.8597		0.00		0.901		19.49						
38	38	Total-hexafurans	373.8208		0.00		1.049		39.64						
39	39	Total-heptafurans	407.7818		0.00		1.234		20.00						
40	40	Total-Furans	303.9016		0.00		1.055		100.62						
41	41	Total-tetradioxins	319.8965		0.00		1.041		2.03						
42	42	Total-pentadioxins	355.8546		0.00		0.969		9.84						
43	43	Total-hexadioxins	389.8157		0.00		0.923		29.42						
44	44	Total-heptadioxins	423.7766		0.00		0.982		10.11						
45	45	Total-Dioxins	319.8965		0.00		0.964		71.18						
46	46	Total-TEQ	319.8965		0.00				171.81						
47	47	37CL-2378-TCDD	327.8847	27.38	27.38	70268	1.166		1.99		99.4				
48	48	FUNCTION1 PFK	330.9792		0.00										
49	49	FUNCTION2 PFK	366.9792		0.00										
50	50	FUNCTION3 PFK	380.9760		0.00				0.00						
51	51	FUNCTION4 PFK	430.9728		0.00										
52	52	FUNCTION5 PFK	480.9696		0.00										
53	53	FUNCTION1 HXCDPE	375.8364		0.00										
54	54	FUNCTION1 HPCDPE	409.7974		0.00										
55	55	FUNCTION2 HPCDPE	409.7974		0.00										
56	56	FUNCTION3 OCDPE	445.7555		0.00										
57	57	FUNCTION4 NCDPE	479.7165		0.00										
58	58	FUNCTION5 DCDPE	513.6775		0.00										

Quantify Sample Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

13C-1234-TCDD



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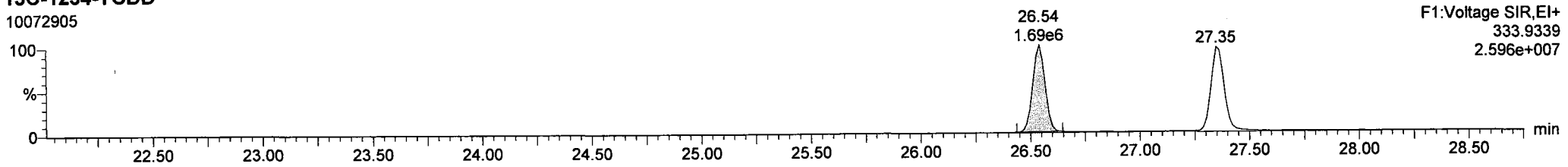
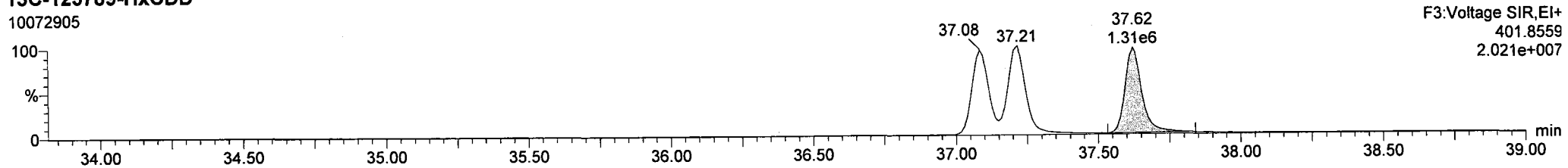


13C-123789-HxCDD



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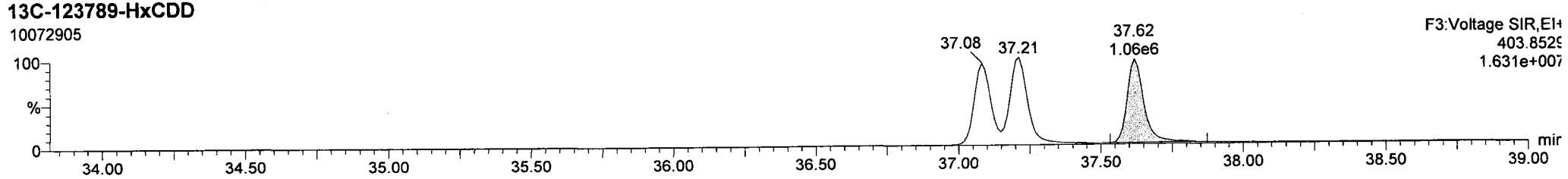
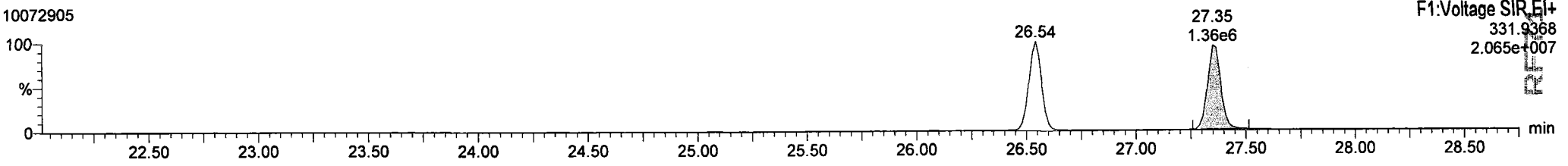


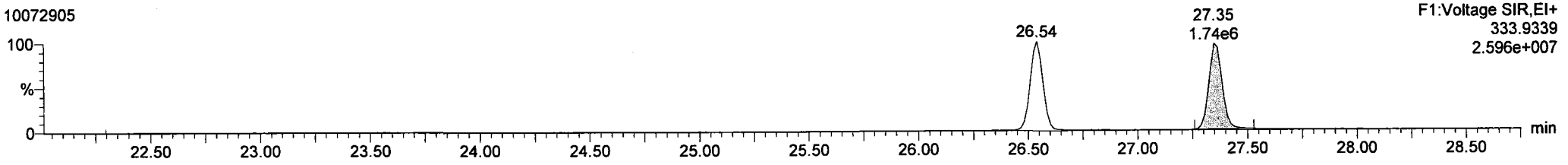
Quantify Sample Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

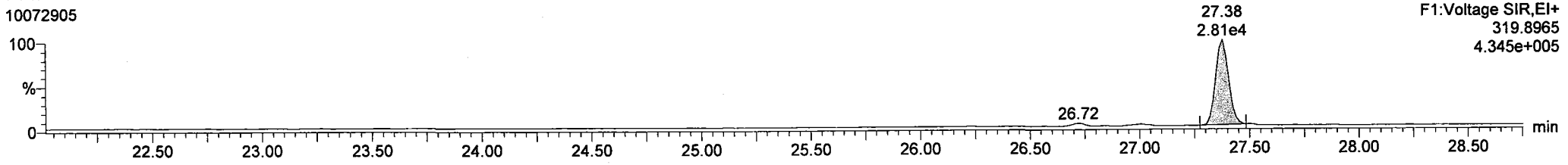
13C-2378-TCDD



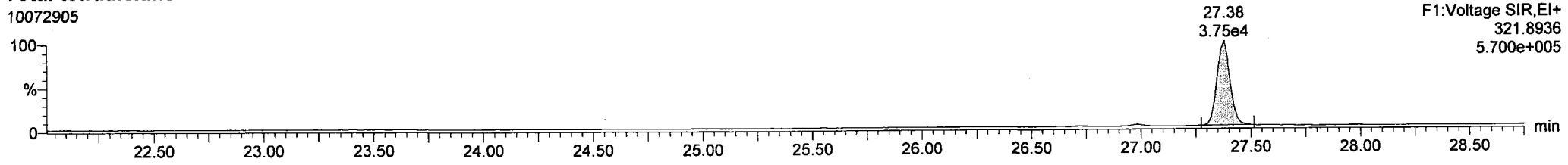
13C-2378-TCDD



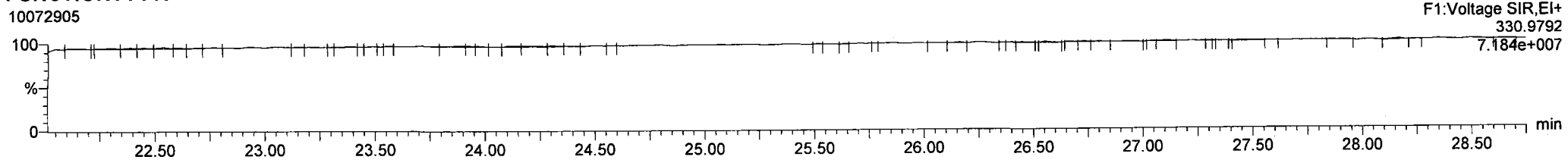
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

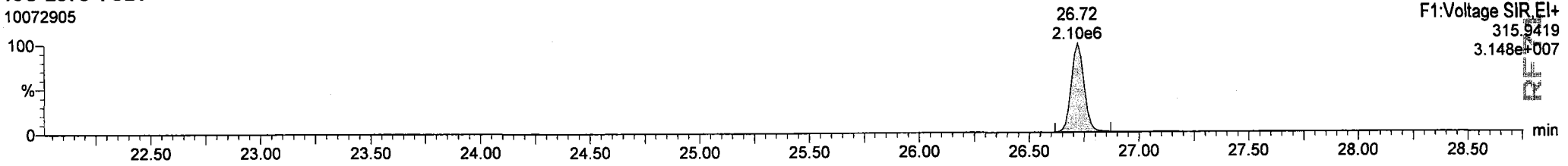


Quantify Sample Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

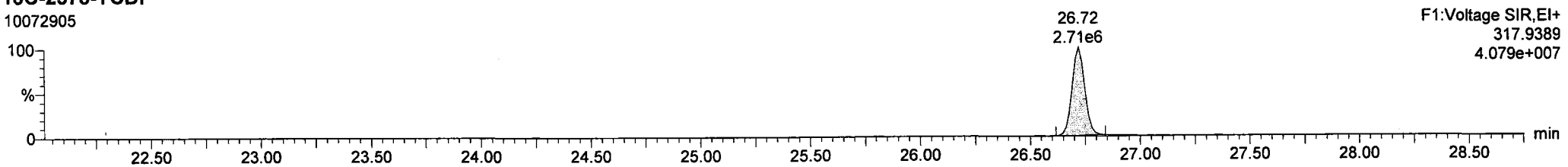
REFERENCE

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

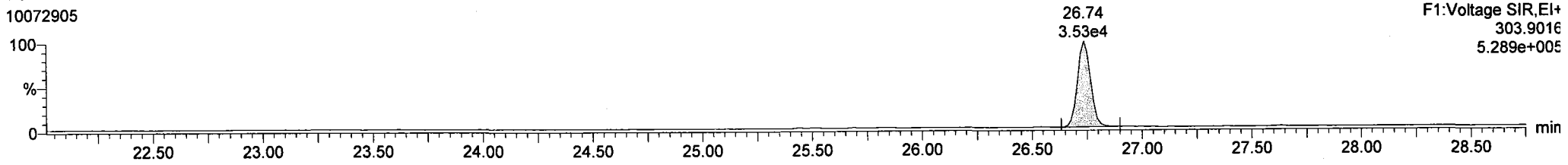
13C-2378-TCDF



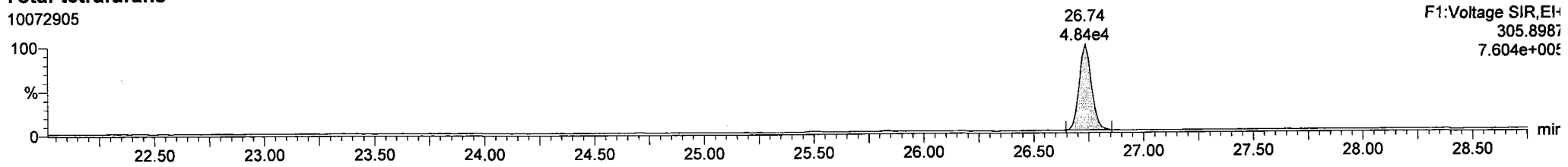
13C-2378-TCDF



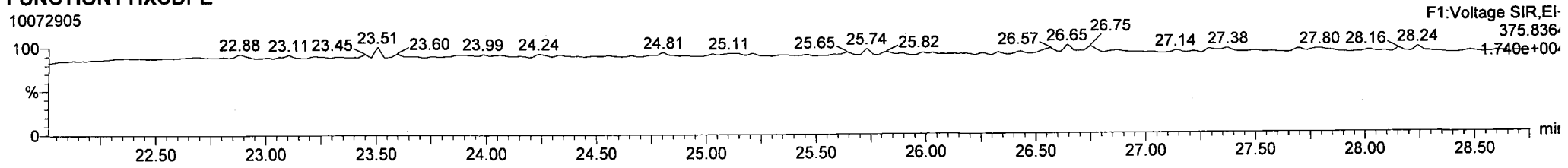
Total-tetrafurans



Total-tetrafurans



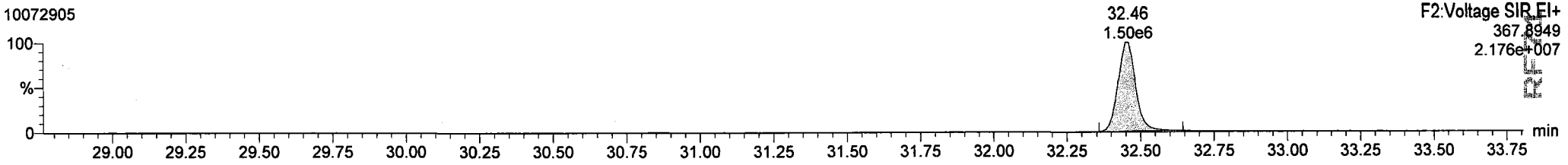
FUNCTION1 HXCDPE



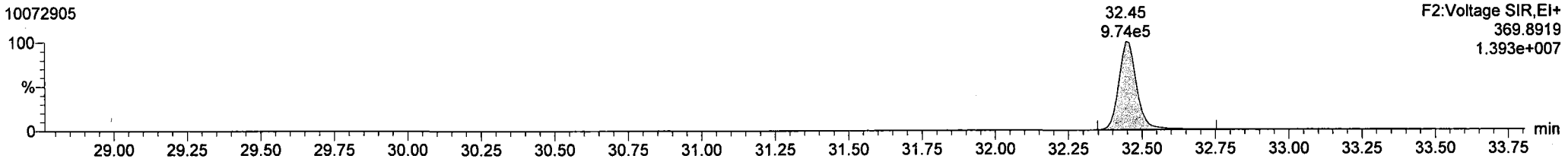
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

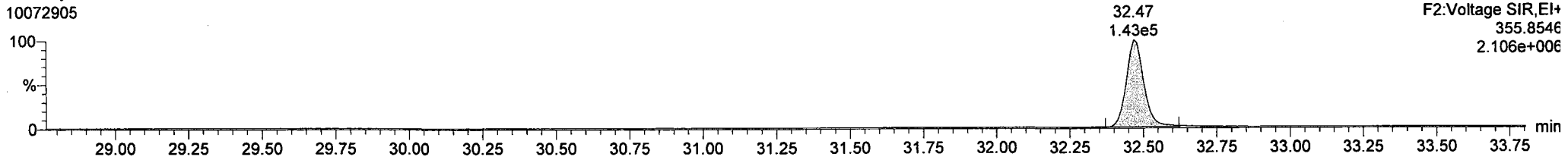
13C-12378-PeCDD



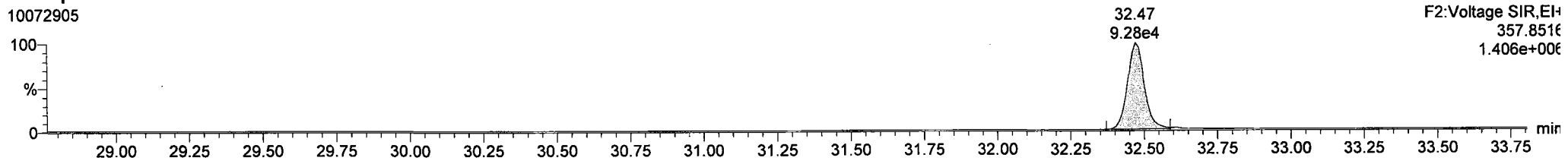
13C-12378-PeCDD



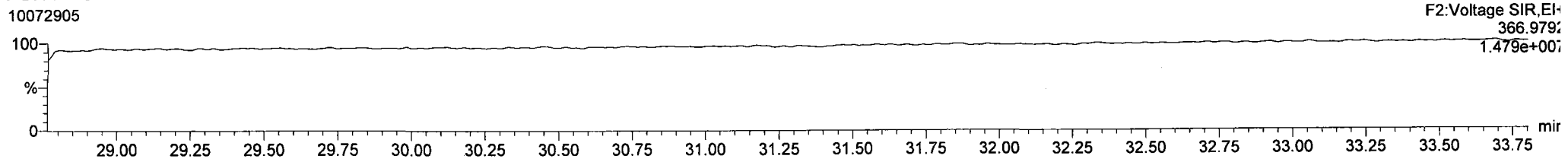
Total-pentadioxins



Total-pentadioxins



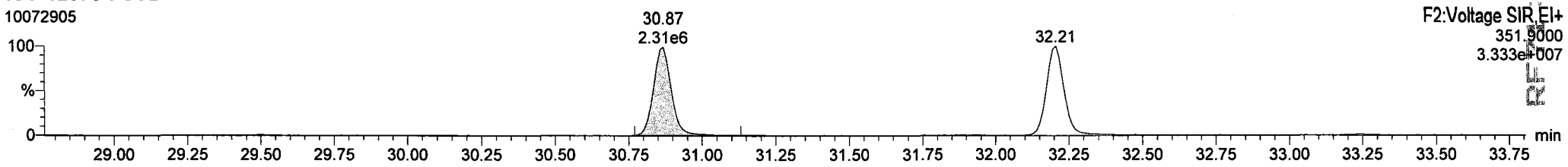
FUNCTION2 PFK



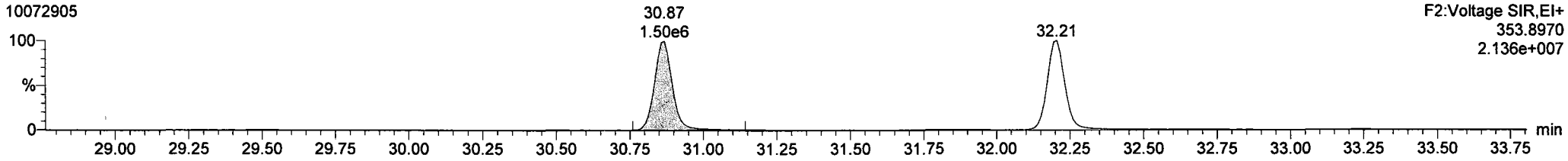
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

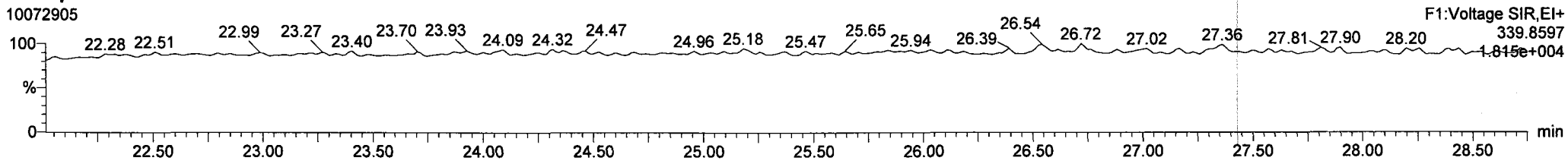
13C-12378-PeCDF



13C-12378-PeCDF



Total-penta1



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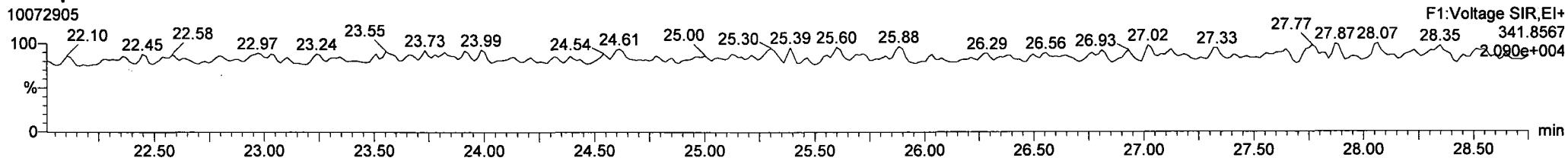
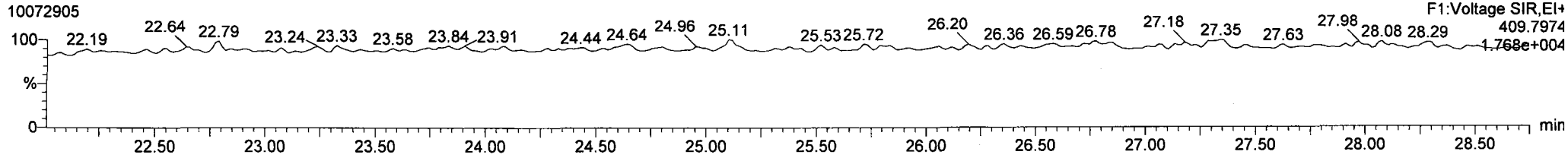


FUNCTION1 HPCDPE



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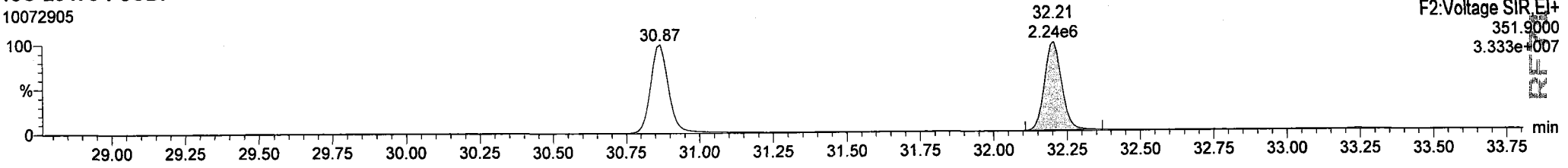
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

13C-23478-PeCDF



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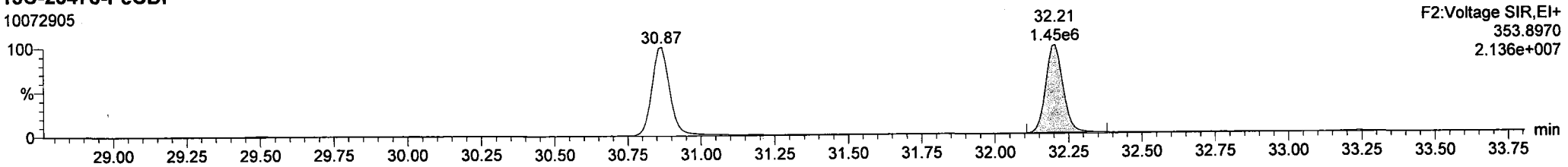
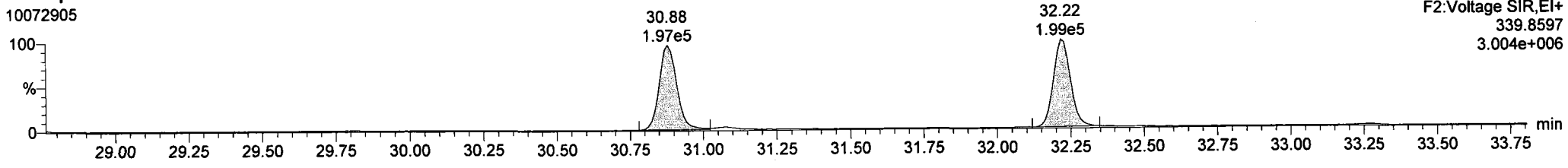
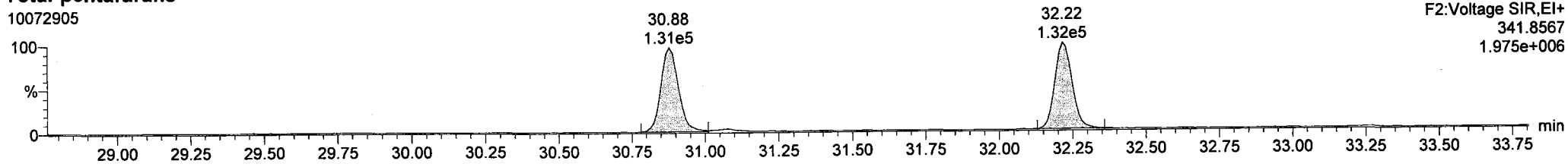


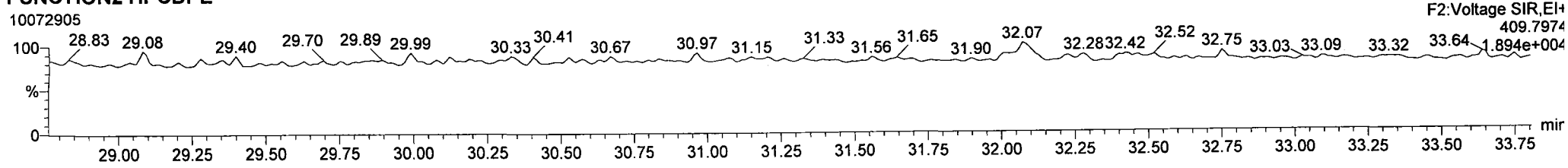
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



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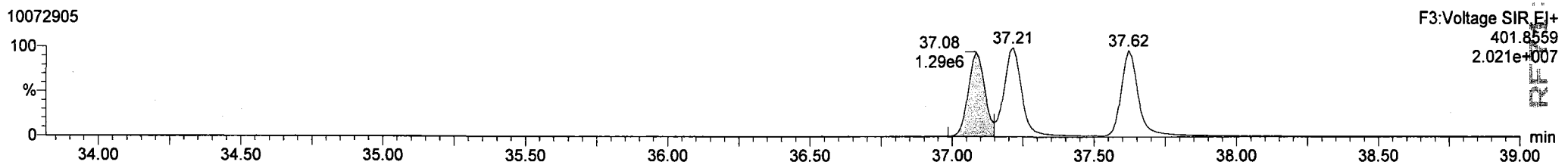
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

13C-123478-HxCDD



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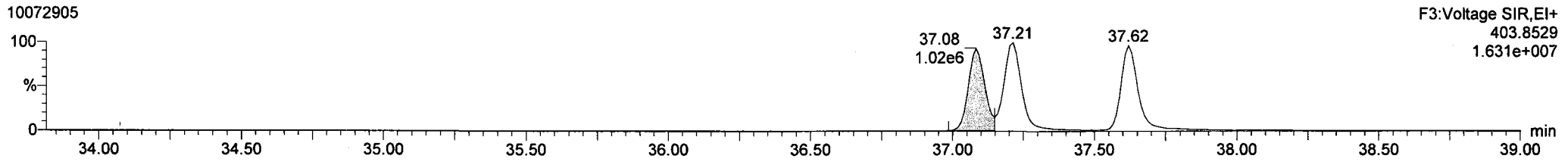
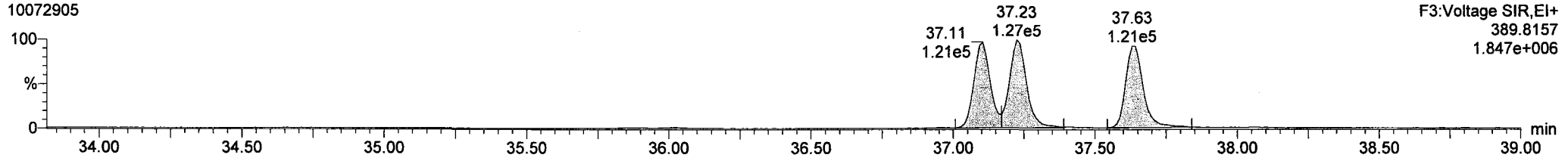
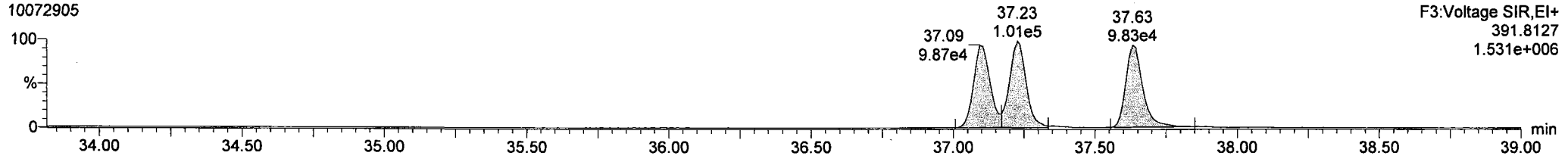


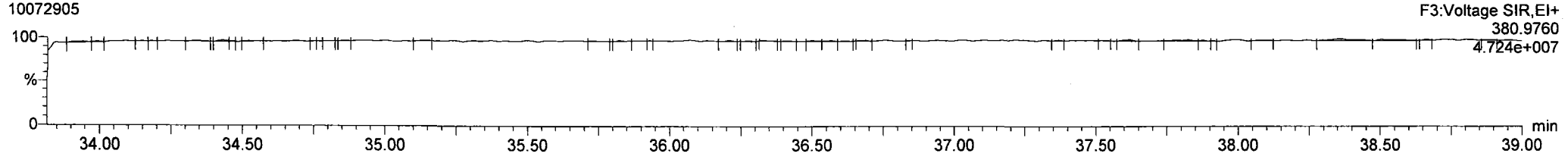
Total-hexadioxins



Total-hexadioxins



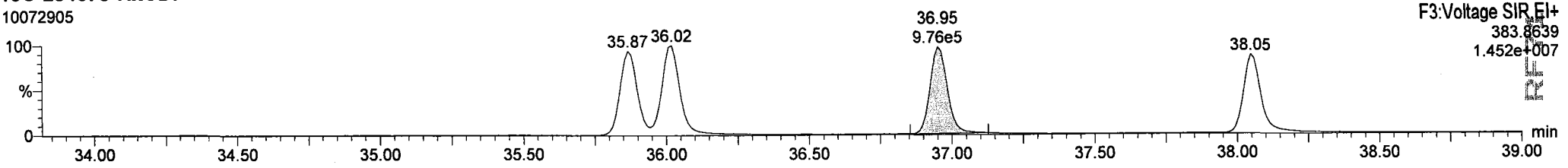
FUNCTION3 PFK



Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

13C-234678-HxCDF



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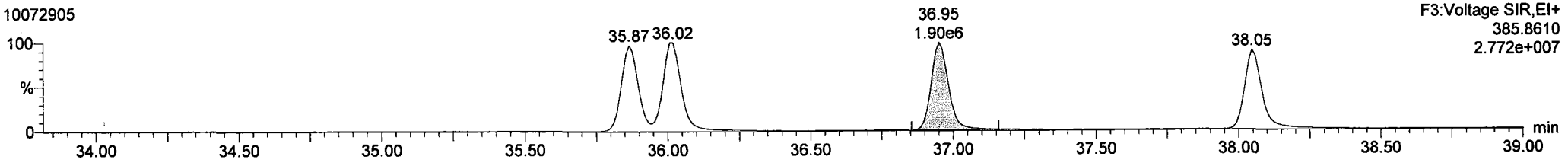
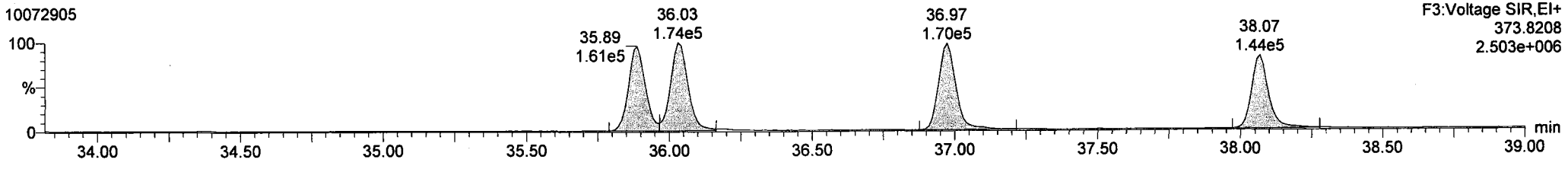
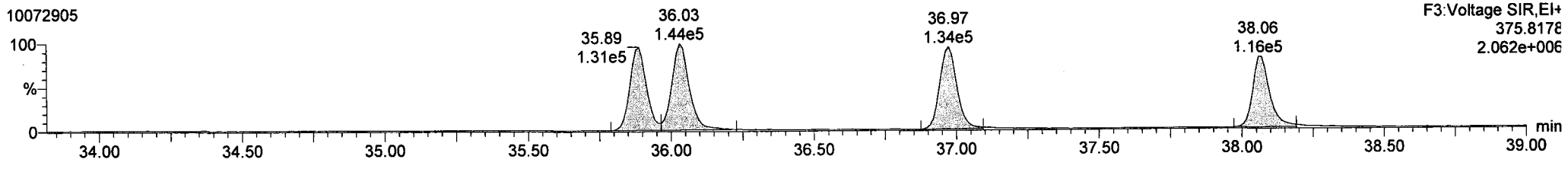


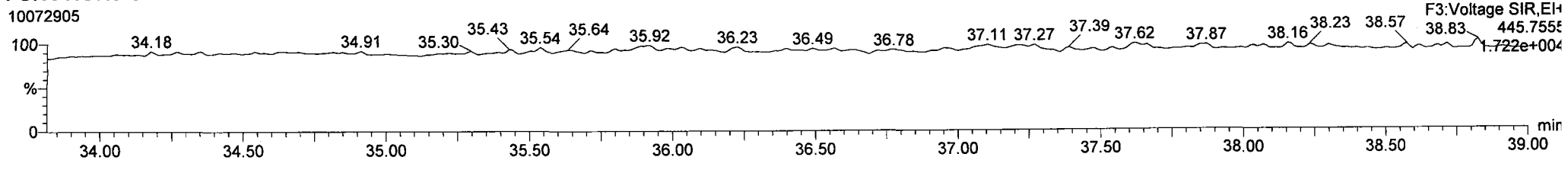
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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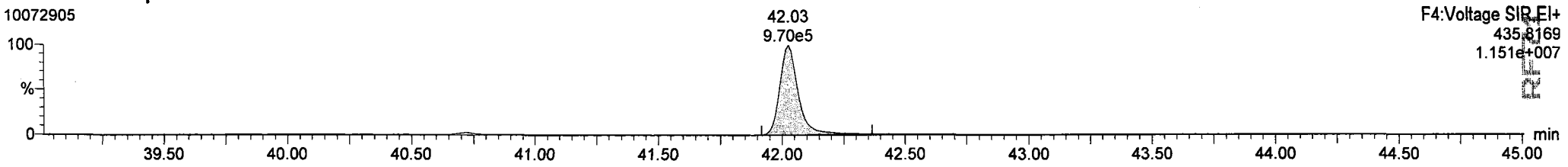
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

13C-1234678-HpCDD



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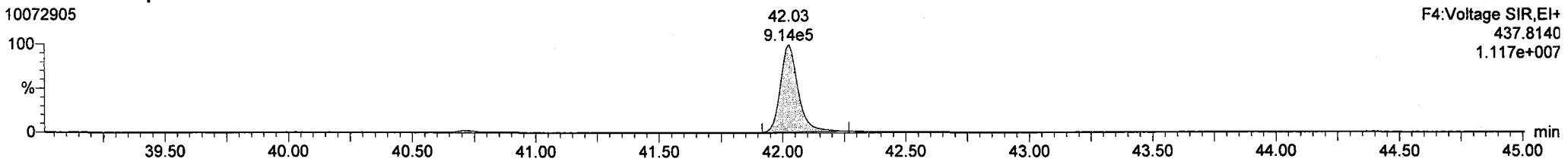
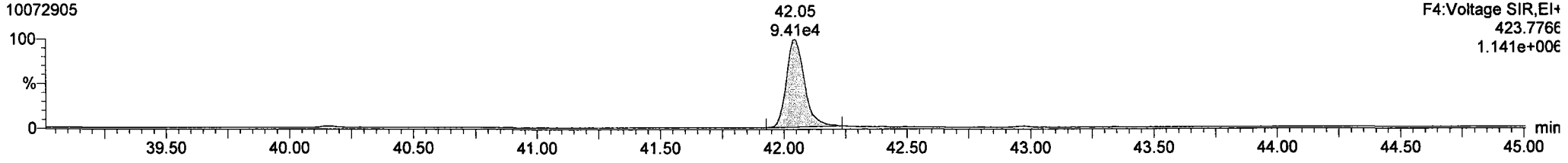
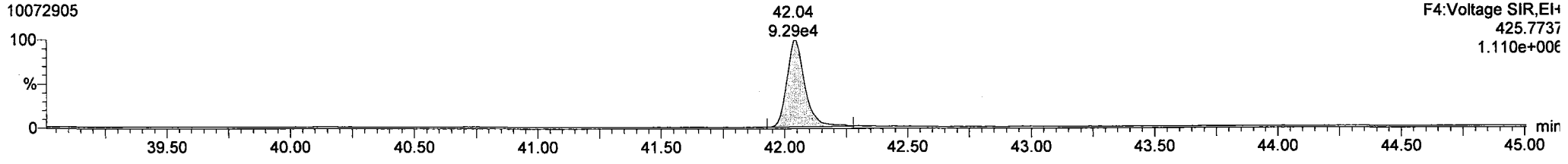


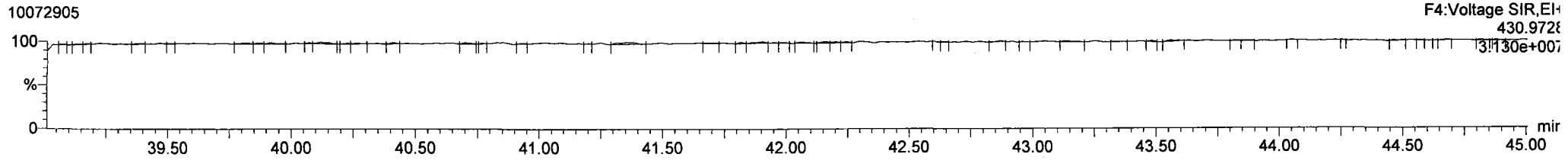
Total-heptadioxins



Total-heptadioxins



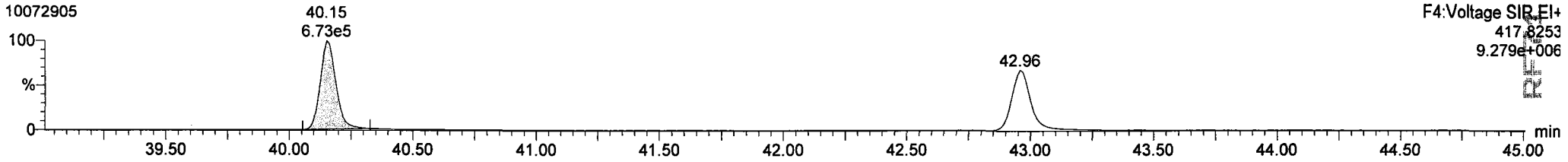
FUNCTION4 PFK



Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

13C-1234678-HpCDF



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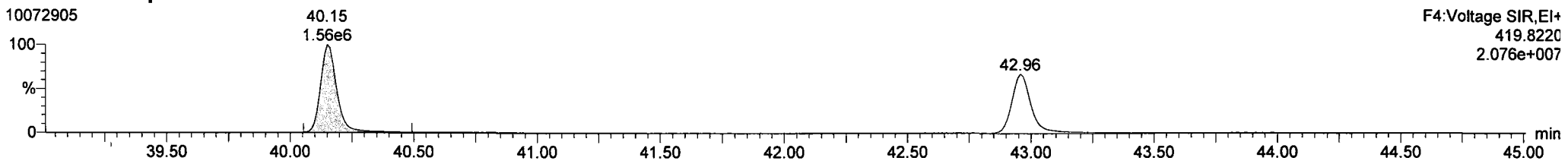
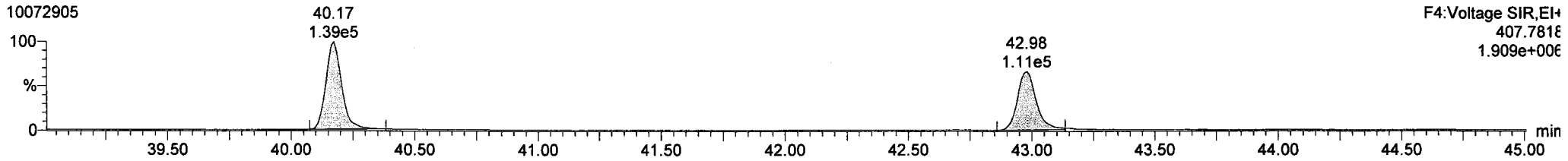


Total-heptafurans



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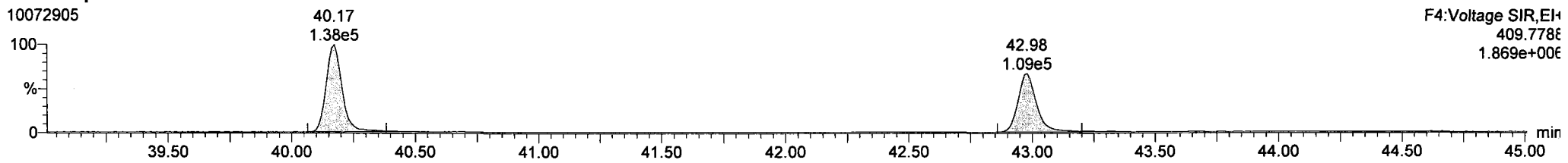
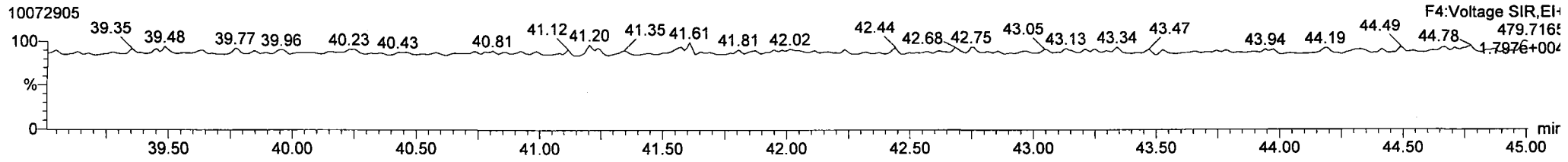


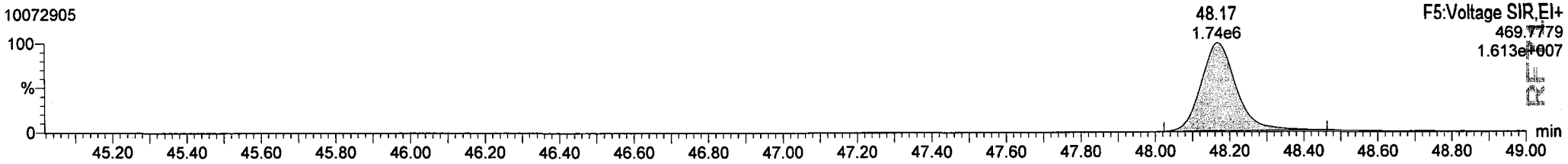
FUNCTION4 NCDPE



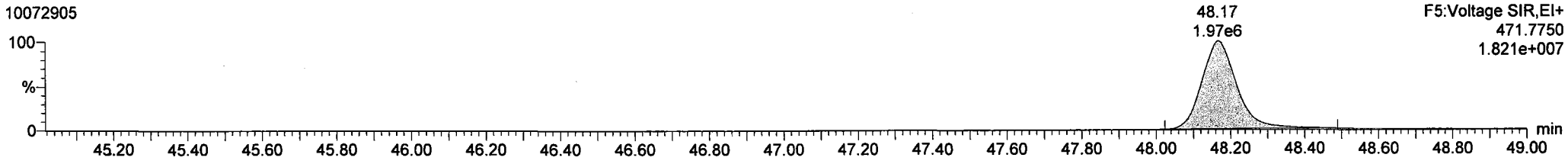
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

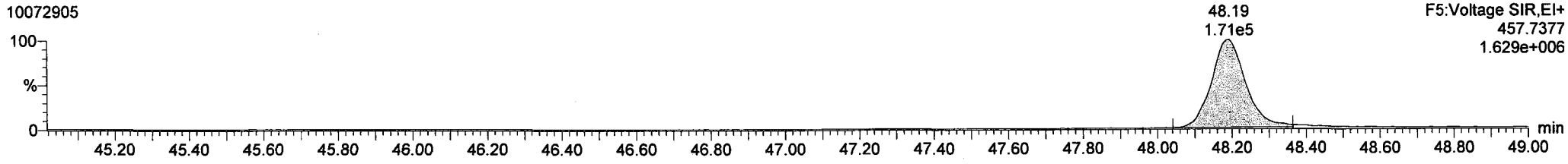
13C-OCDD



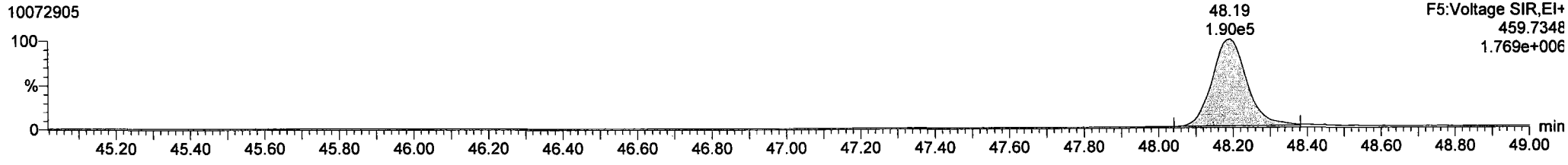
13C-OCDD



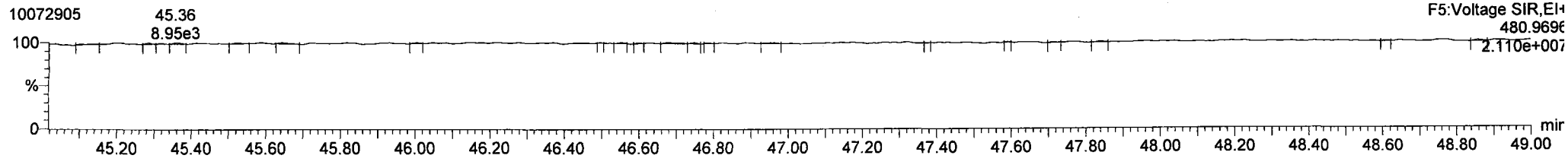
OCDD



OCDD



FUNCTION5 PFK



Quantify Sample Report **MassLynx 4.1 SCN 714**
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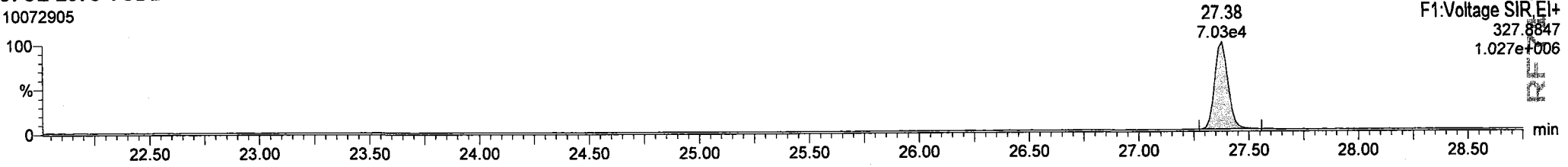
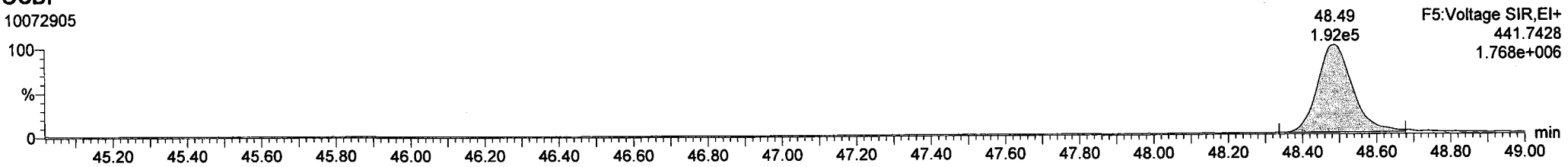
Printed: Wednesday, August 04, 2010 09:21:06 Pacific Daylight Time

Name: 10072905, Date: 29-Jul-2010, Time: 13:33:45, ID: CS2, Description: , Lab: , User: PK

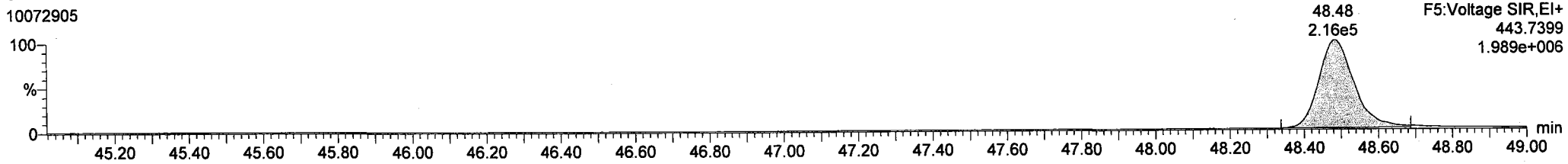
37CL-2378-TCDD



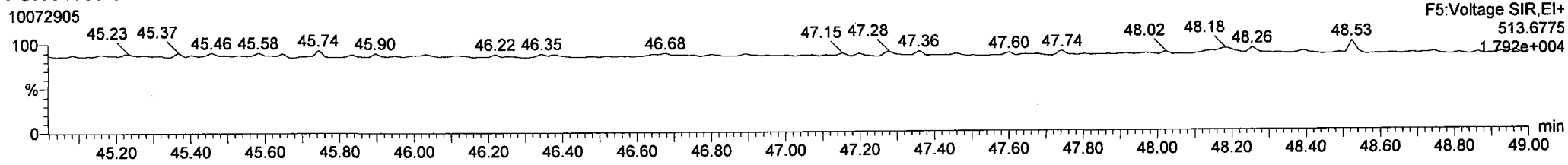
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Lab: , Conditions: METHOD 8290A, User: PK

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
1	1	2378-TCDF	303.9016	26.74	26.72	430309	0.871		9.92	bb	99.2	0.77	0.77	NO	9.92
2	2	12378-PeCDF	339.8597	30.88	30.87	1752447	0.890		50.53	bd	101.1	1.55	1.55	NO	50.53
3	3	23478-PeCDF	339.8597	32.22	32.21	1769741	0.913		49.97	db	99.9	1.52	1.55	NO	49.97
4	4	123478-HxCDF	373.8208	35.89	35.87	1580664	1.087		50.24	bd	100.5	1.22	1.24	NO	50.24
5	5	234678-HxCDF	373.8208	36.97	36.95	1614425	1.066		49.99	bb	100.0	1.22	1.24	NO	49.99
6	6	123678-HxCDF	373.8208	36.03	36.02	1693152	1.043		51.06	db	102.1	1.24	1.24	NO	51.06
7	7	123789-HxCDF	373.8208	38.07	38.05	1386690	1.001		50.61	bd	101.2	1.23	1.24	NO	50.61
8	8	1234678-HpCDF	407.7818	40.17	40.15	1454040	1.234		50.29	bd	100.6	1.03	1.05	NO	50.29
9	9	1234789-HpCDF	407.7818	42.98	42.96	1152023	1.233		49.56	bd	99.1	1.01	1.05	NO	49.56
10	10	OCDF	441.7428	48.48	48.46	2279090	1.128		100.53	bd	100.5	0.89	0.89	NO	100.53
11	11	2378-TCDD	319.8965	27.38	27.35	334416	1.041		9.91	bb	99.1	0.80	0.77	NO	9.91
12	12	12378-PeCDD	355.8546	32.47	32.45	1241770	0.969		49.51	bb	99.0	1.54	1.55	NO	49.51
13	13	123478-HxCDD	389.8157	37.11	37.08	1192768	0.967		50.09	bd	100.2	1.26	1.24	NO	50.09
14	14	123678-HxCDD	389.8157	37.23	37.21	1224470	0.893		50.39	dd	100.8	1.18	1.24	NO	50.39
15	15	123789-HxCDD	389.8157	37.63	37.66	1188752	0.909		50.46	bb	100.9	1.25	1.24	NO	50.46
16	16	1234678-HpCDD	423.7766	42.04	42.03	1002107	0.982		49.98	bd	100.0	1.01	1.05	NO	49.98
17	17	OCDD	457.7377	48.19	48.17	1974077	0.985		99.71	bd	99.7	0.90	0.89	NO	99.71
18	18	13C-2378-TCDF	315.9419	26.72	26.72	4978205	1.608		98.98	bb	99.0	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.87	30.87	3897617	1.281		97.32	bb	97.3	1.55	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.21	3878353	1.261		98.34	bb	98.3	1.57	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.87	35.87	2895759	1.131		100.21	bd	100.2	0.53	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.02	36.02	3179248	1.260		98.73	db	98.7	0.54	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.95	36.95	3030514	1.193		99.40	bb	99.4	0.52	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.05	38.05	2738242	1.097		97.69	bb	97.7	0.52	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.15	40.15	2342255	0.934		98.11	bb	98.1	0.46	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.96	42.96	1884739	0.760		97.02	bb	97.0	0.44	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.54	26.54	3127397	1.000		100.00	bb	100.0	0.79	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.35	27.36	3239018	1.041		99.51	bb	99.5	0.79	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.45	32.46	2587705	0.847		97.71	bb	97.7	1.56	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.08	37.08	2463455	0.965		99.84	bd	99.8	1.26	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.21	37.21	2720828	1.072		99.34	db	99.3	1.22	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.03	2041585	0.806		99.10	bd	99.1	1.04	1.05	NO	
33	33	13C-OCDD	469.7779	48.17	48.17	4019307	0.814		193.07	bd	96.5	0.88	0.89	NO	

Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

RF1741 . 000559

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Lab: , Conditions: METHOD 8290A, User: PK

	# Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
34	34 13C-123789-HxCDD	401.8559	37.62	37.62	2555958	1.000		100.00	bb	100.0	1.21	1.24	NO	
35	35 Total-tetrafurans	303.9016		0.00		0.871		28.42						
36	36 Total-penta1	339.8597	28.08	28.08	2217379	1.141		50.00	bb	100.0	1.53	1.55	NO	
37	37 Total-pentafurans	339.8597		0.00		0.901		145.02						
38	38 Total-hexafurans	373.8208		0.00		1.049		259.00						
39	39 Total-heptafurans	407.7818		0.00		1.234		99.85						
40	40 Total-Furans	303.9016		0.00		1.055		682.82						
41	41 Total-tetradioxins	319.8965		0.00		1.041		53.27						
42	42 Total-pentadioxins	355.8546		0.00		0.969		168.05						
43	43 Total-hexadioxins	389.8157		0.00		0.923		212.50						
44	44 Total-heptadioxins	423.7766		0.00		0.982		106.55						
45	45 Total-Dioxins	319.8965		0.00		0.964		640.07						
46	46 Total-TEQ	319.8965		0.00				1322.89						
47	47 37CL-2378-TCDD	327.8847	27.38	27.38	358912	1.166		9.84		98.4				
48	48 FUNCTION1 PFK	330.9792		0.00										
49	49 FUNCTION2 PFK	366.9792		0.00				0.00						
50	50 FUNCTION3 PFK	380.9760		0.00				0.00						
51	51 FUNCTION4 PFK	430.9728		0.00										
52	52 FUNCTION5 PFK	480.9696		0.00										
53	53 FUNCTION1 HXCDPE	375.8364		0.00										
54	54 FUNCTION1 HPCDPE	409.7974		0.00										
55	55 FUNCTION2 HPCDPE	409.7974		0.00				0.00						
56	56 FUNCTION3 OCDPE	445.7555		0.00										
57	57 FUNCTION4 NCDPE	479.7165		0.00										
58	58 FUNCTION5 DCDPE	513.6775		0.00										

Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
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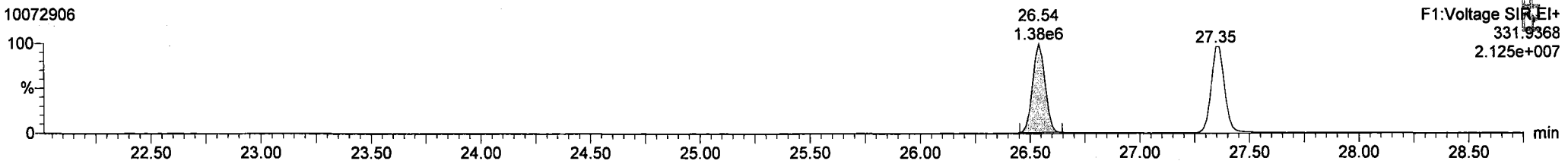
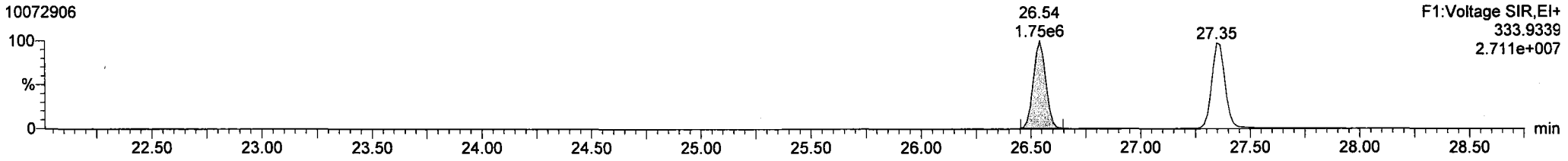
Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

13C-1234-TCDD



13C-1234-TCDD



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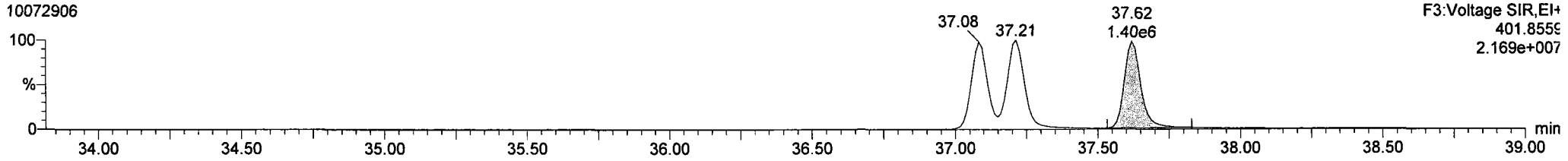

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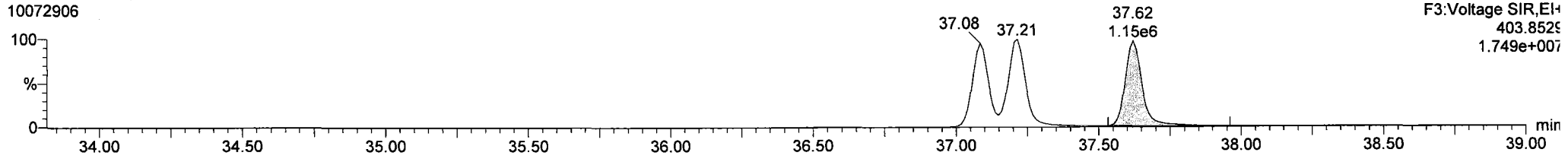

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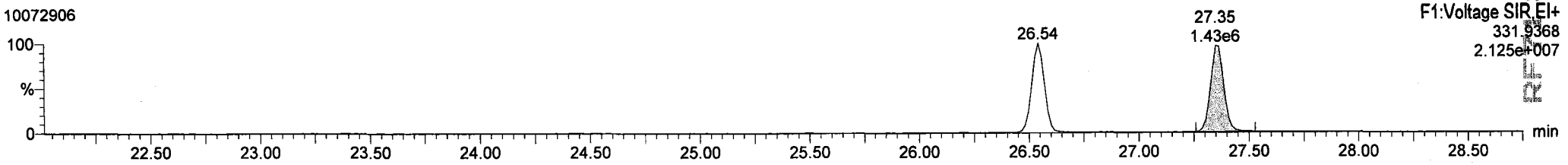
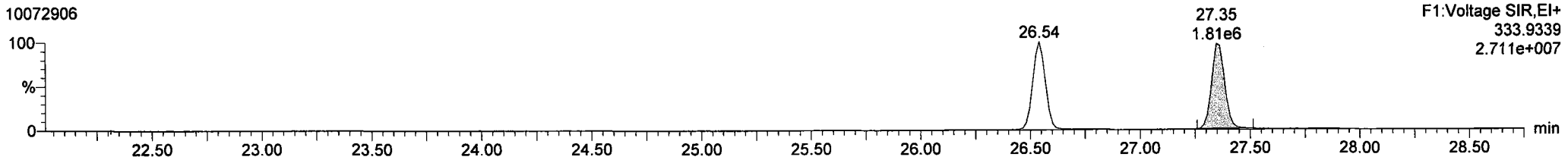
Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

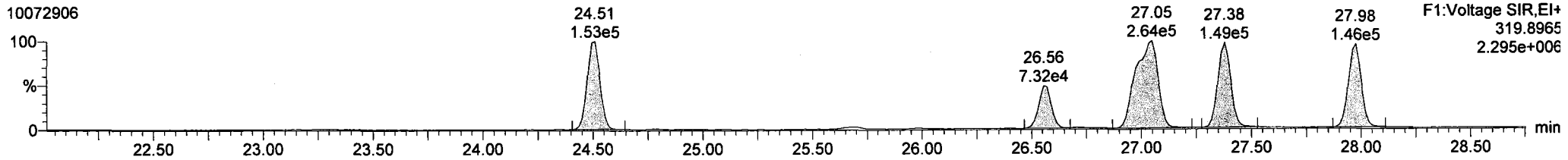
13C-2378-TCDD



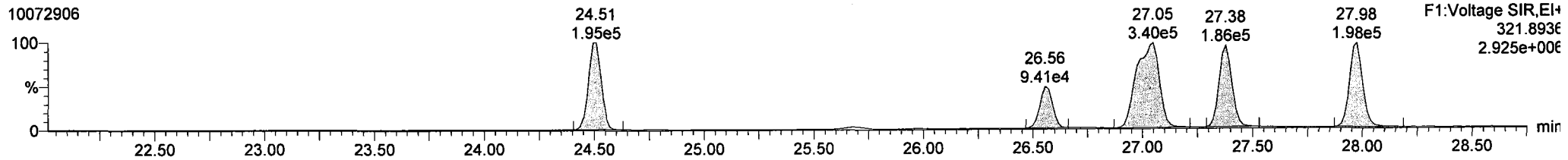
13C-2378-TCDD



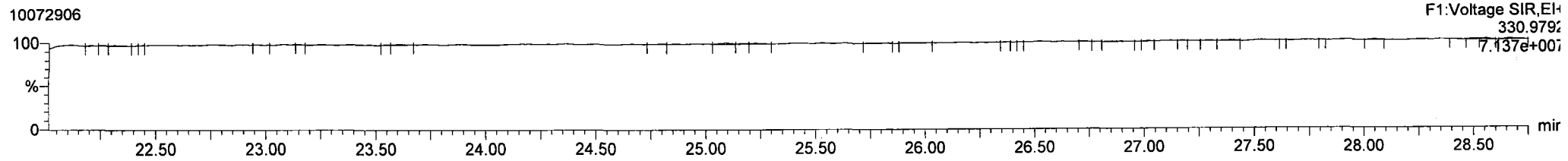
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



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Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
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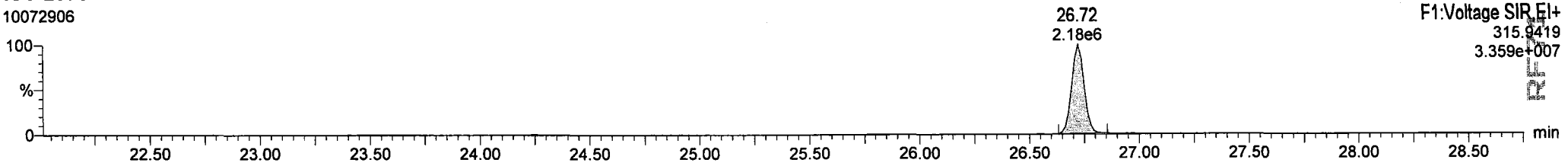
Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

13C-2378-TCDF



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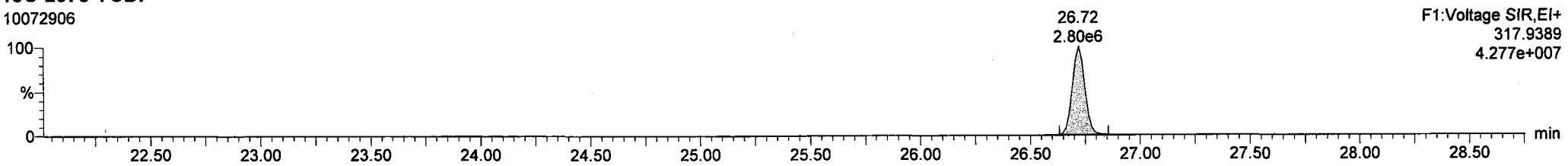
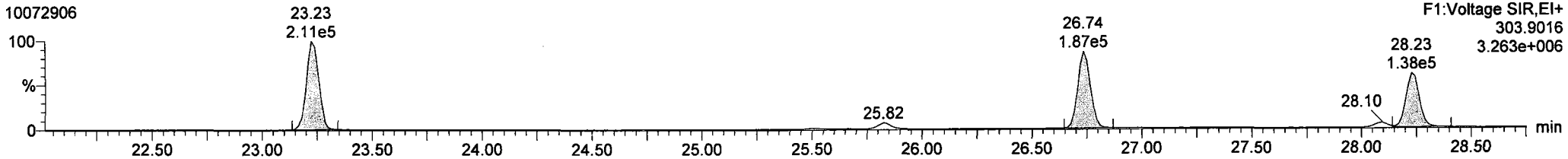
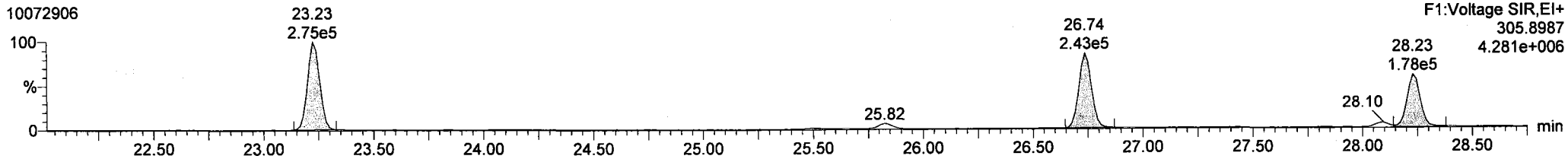


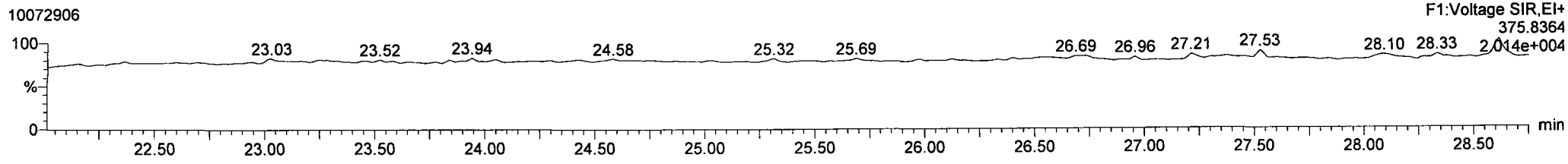
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



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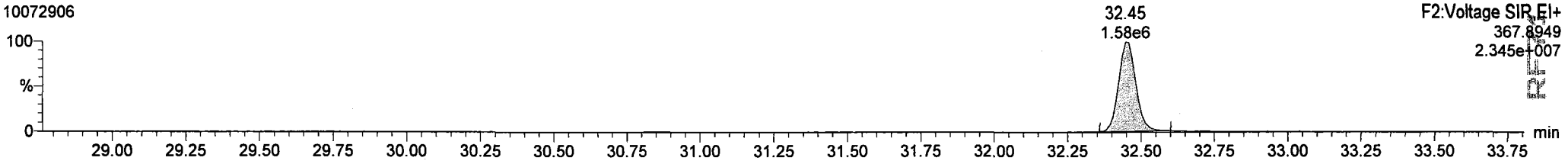
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

13C-12378-PeCDD



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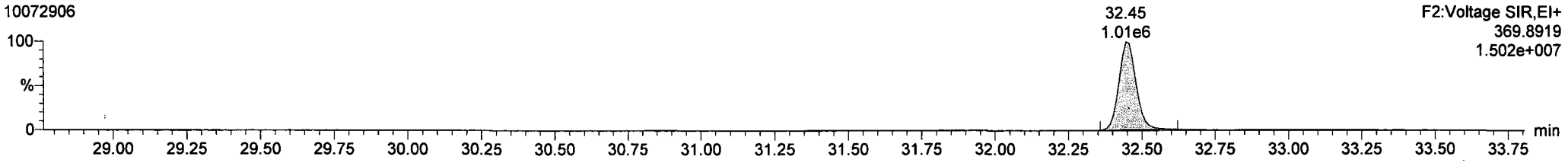
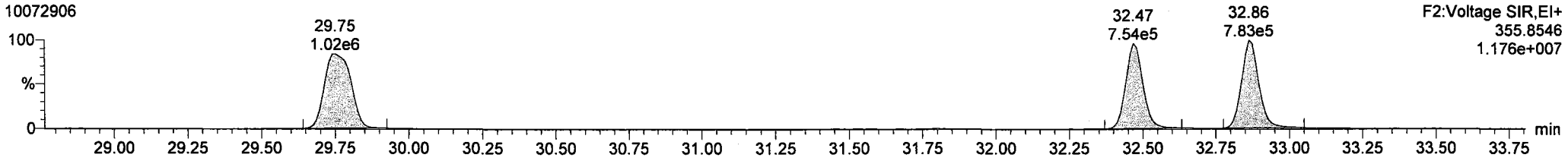
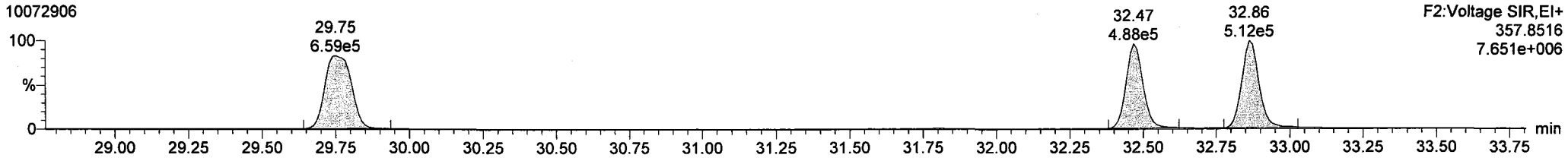


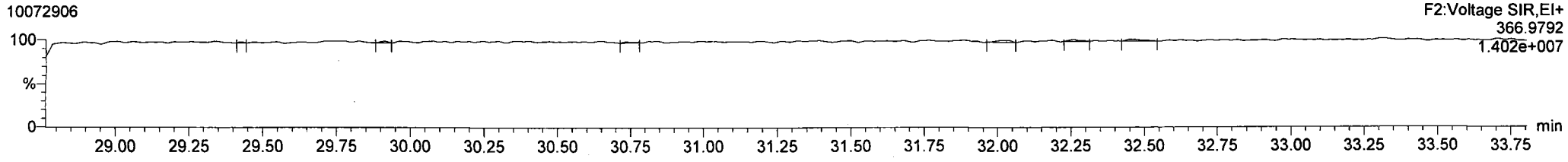
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



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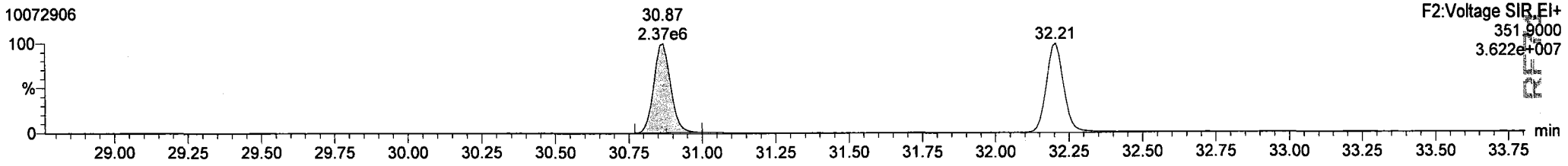
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

RT: 30.87

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

13C-12378-PeCDF



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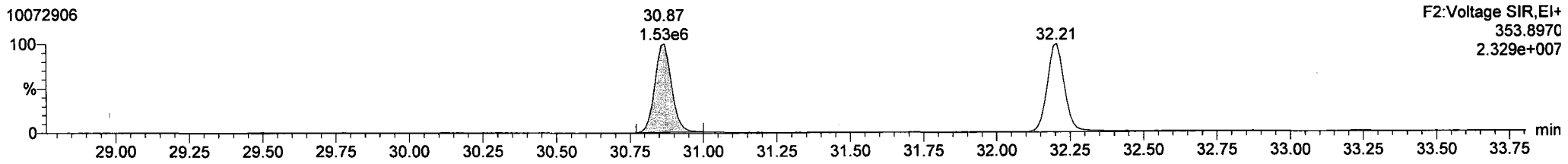
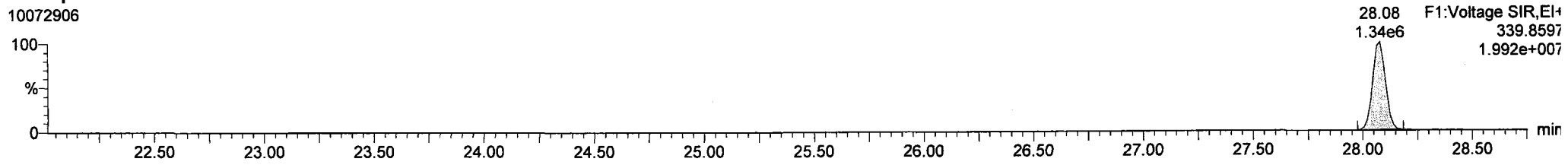
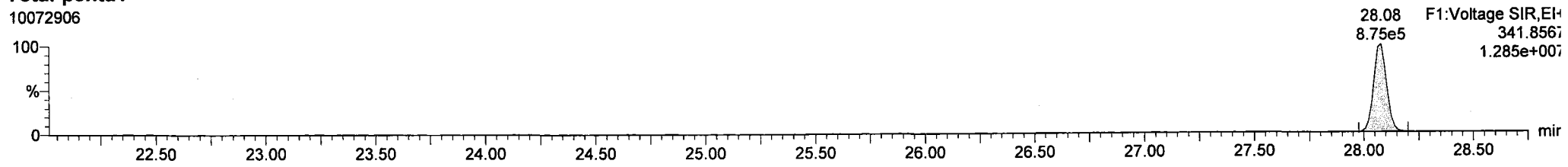


Total-penta1



Total-penta1



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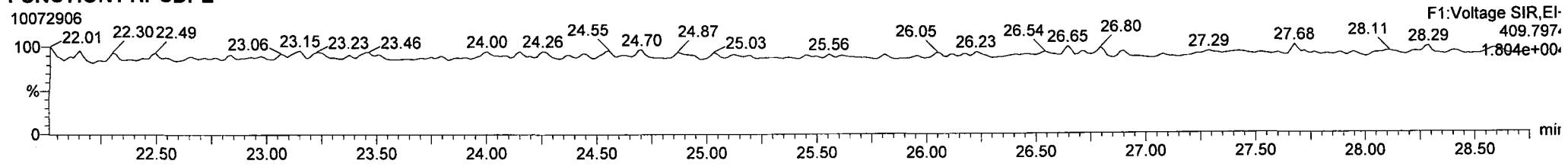

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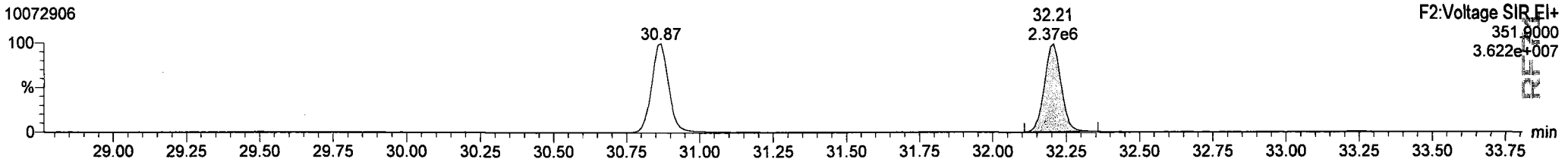
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

13C-23478-PeCDF



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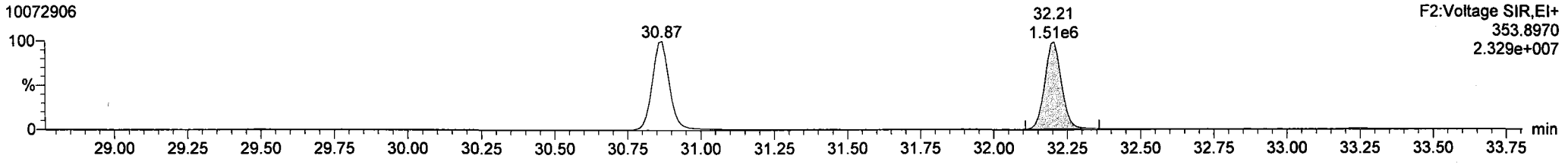
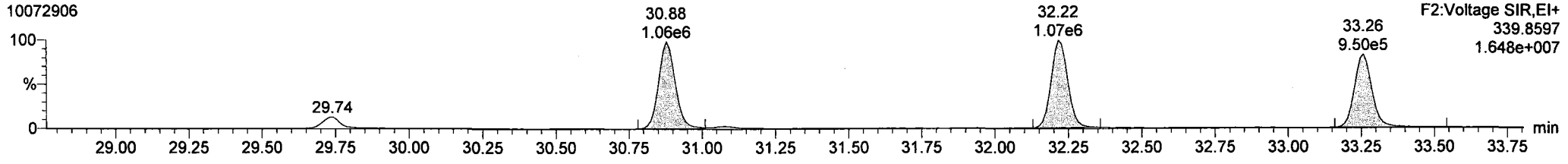
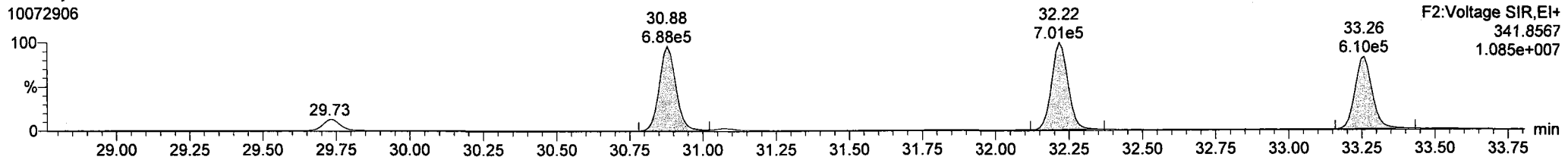


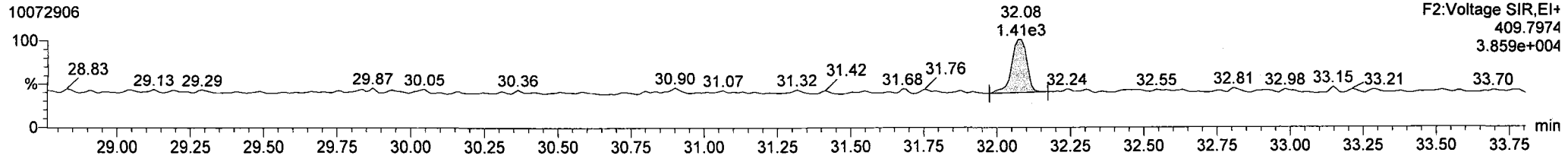
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



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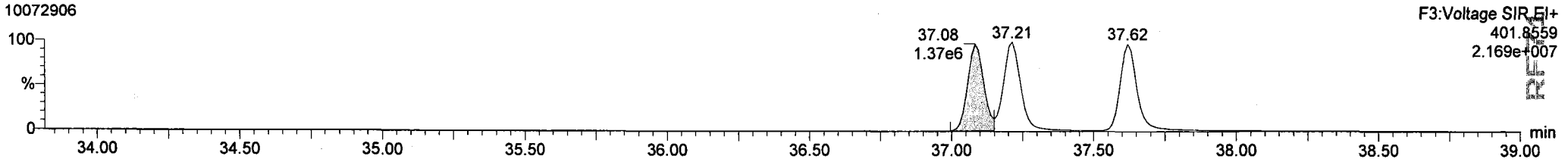
Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

13C-123478-HxCDD



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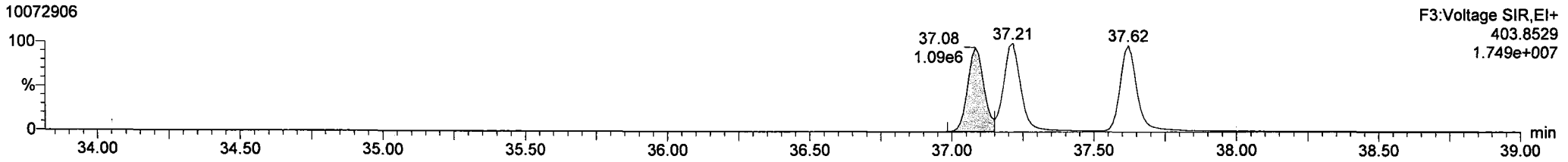
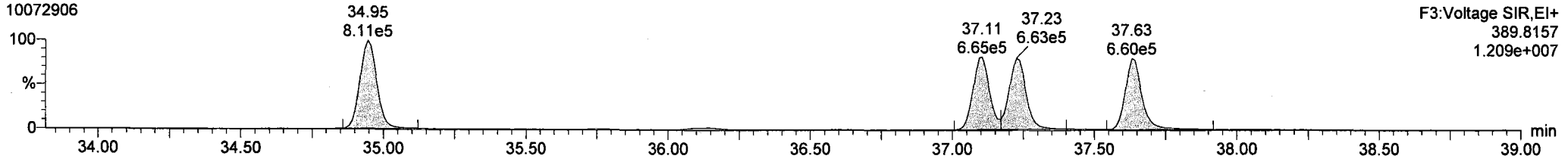
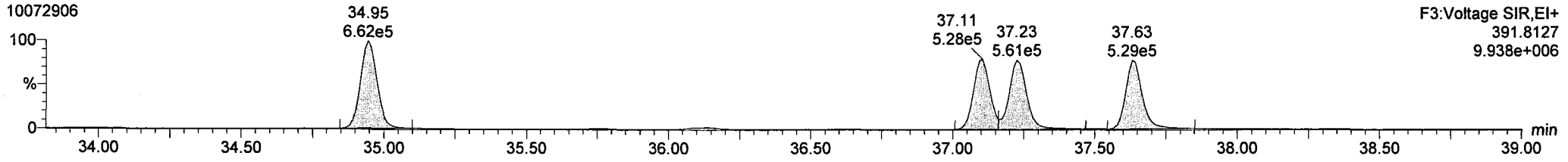


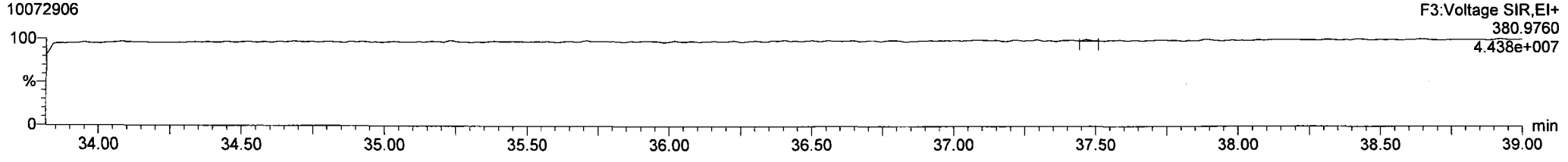
Total-hexadioxins



Total-hexadioxins



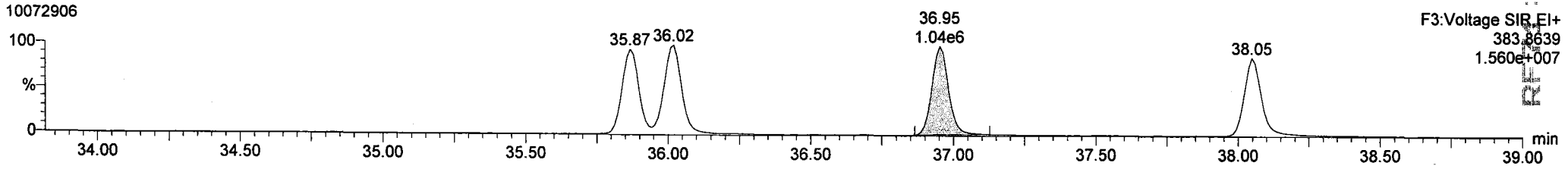
FUNCTION3 PFK



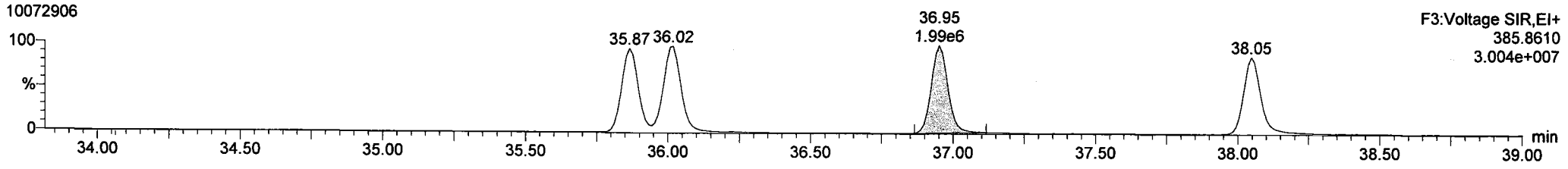
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

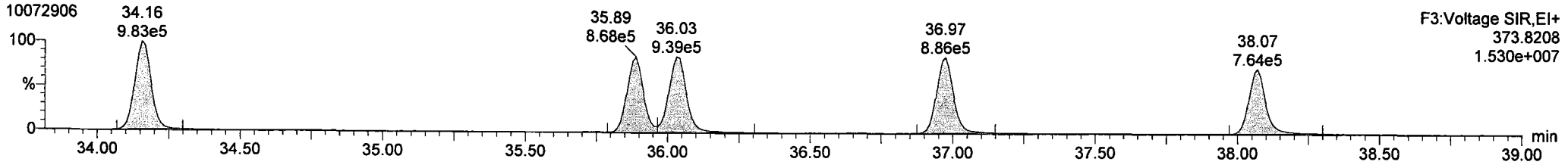
13C-234678-HxCDF



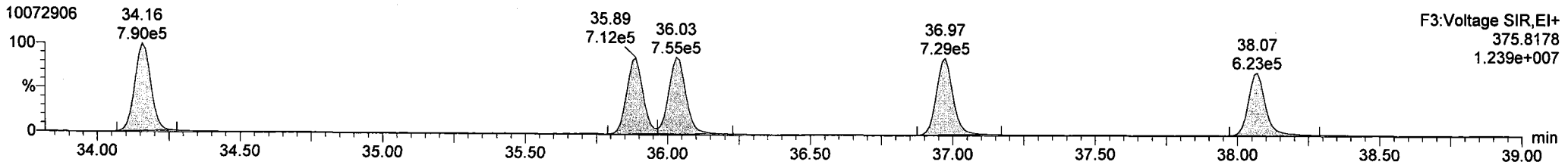
13C-234678-HxCDF



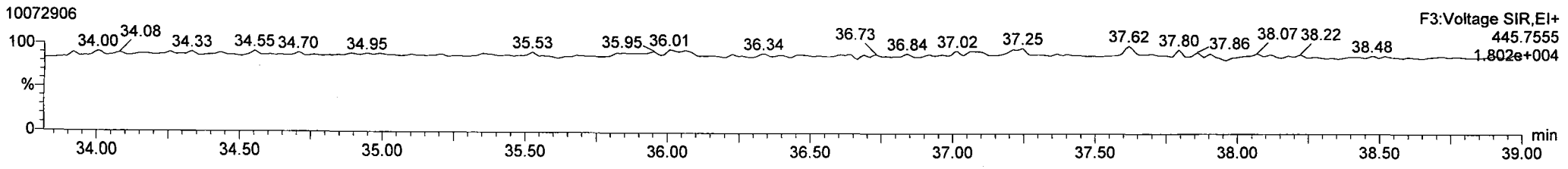
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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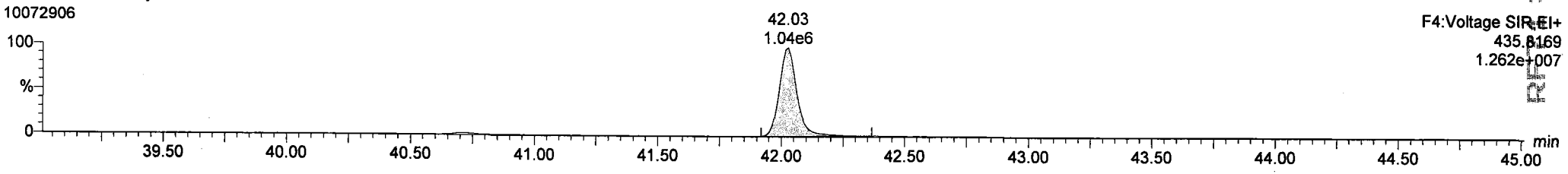
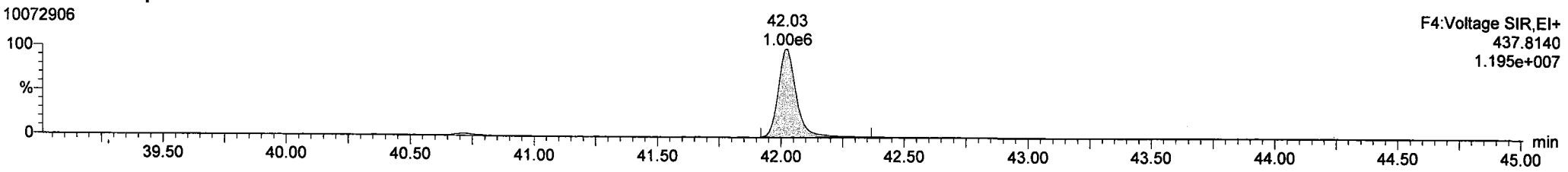
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

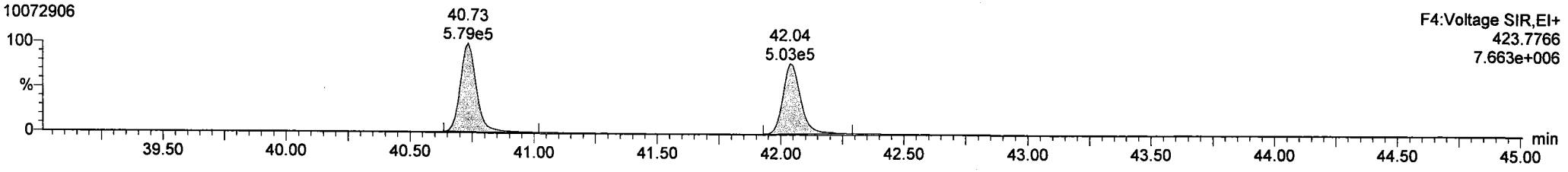
13C-1234678-HpCDD



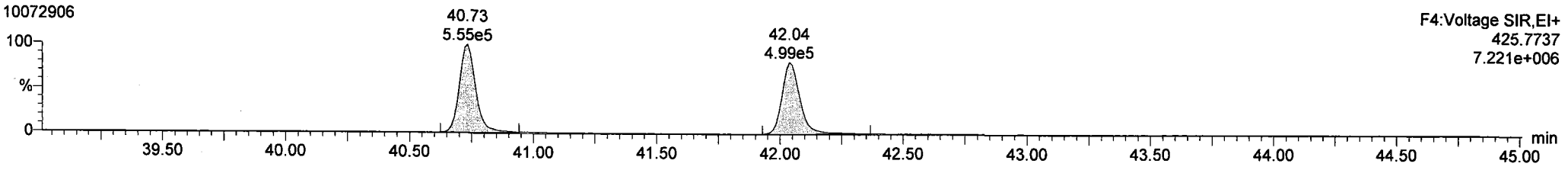
13C-1234678-HpCDD



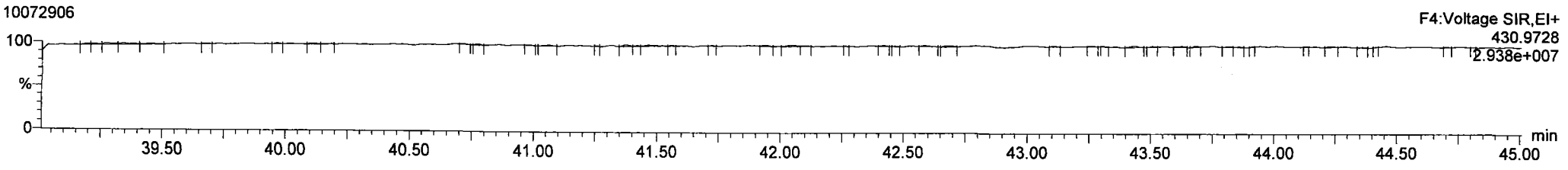
Total-heptadioxins



Total-heptadioxins



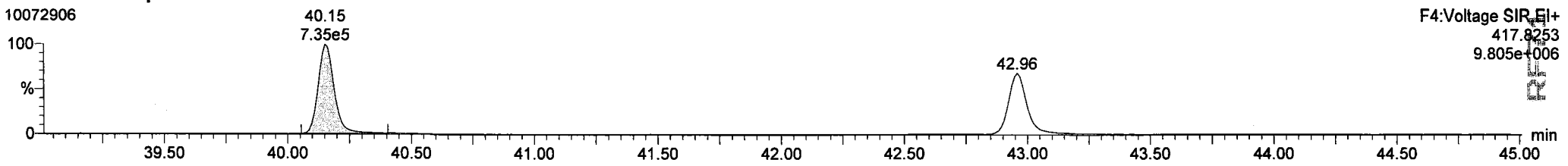
FUNCTION4 PFK



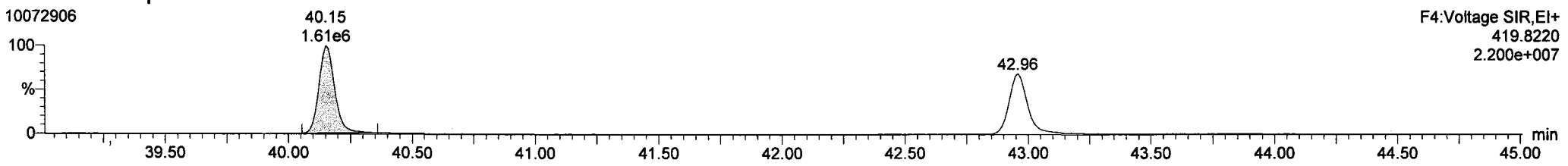
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

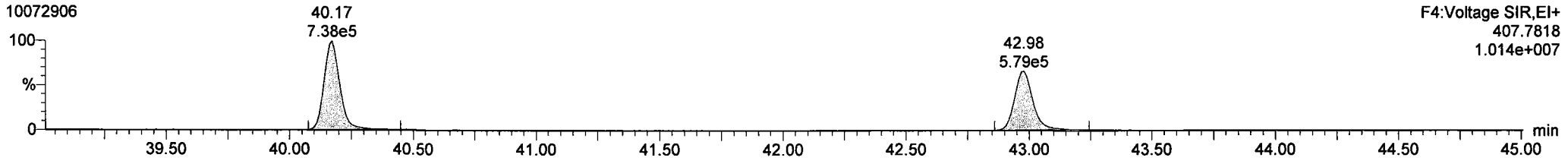
13C-1234678-HpCDF



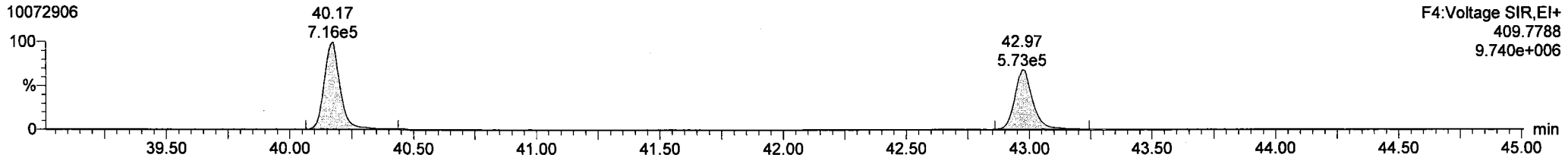
13C-1234678-HpCDF



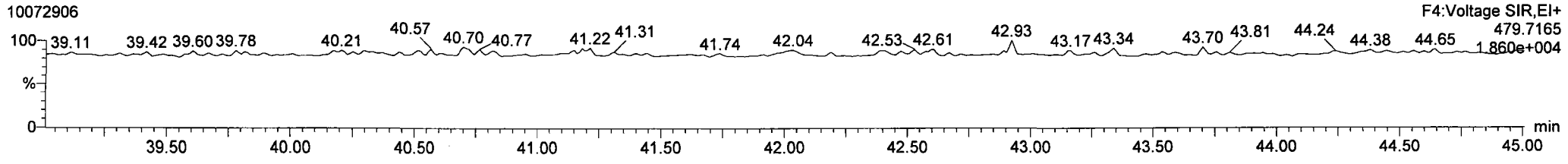
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

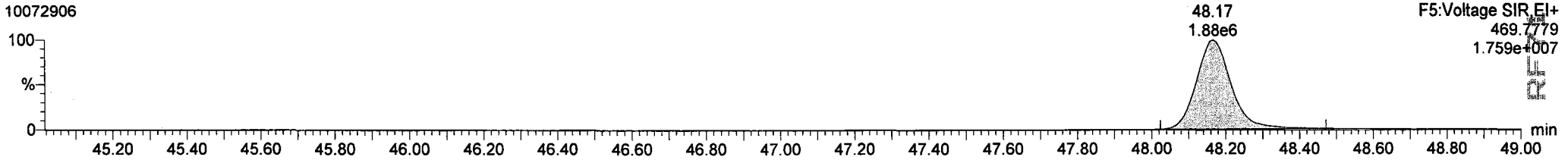


Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

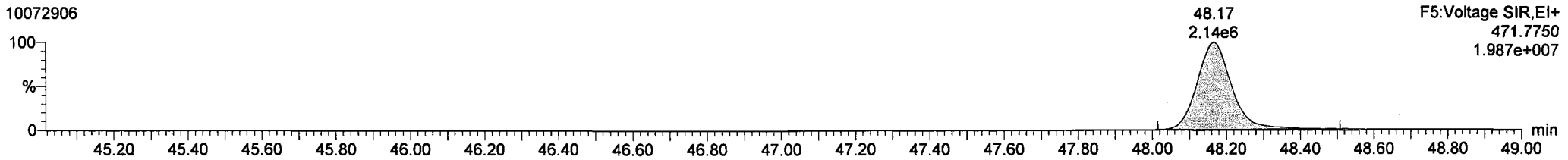
RL 6555

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

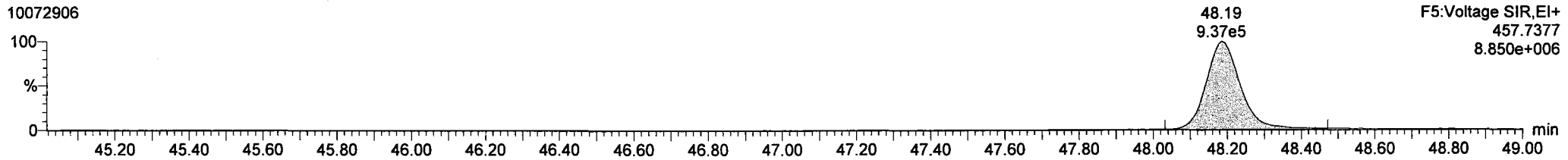
13C-OCDD



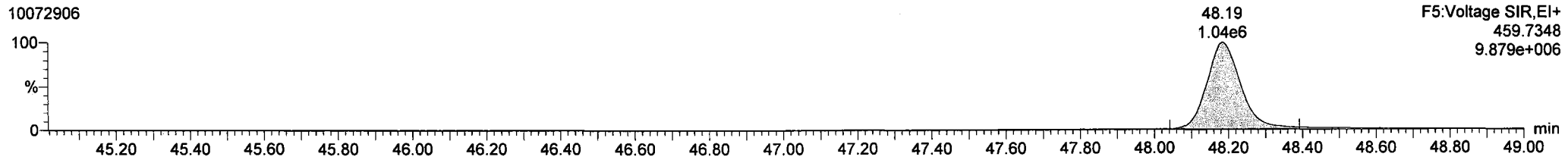
13C-OCDD



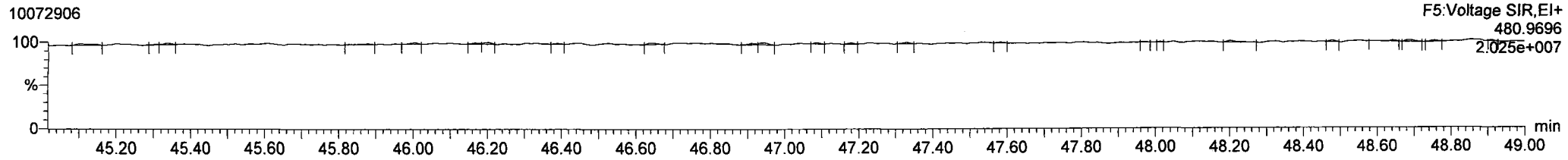
OCDD



OCDD



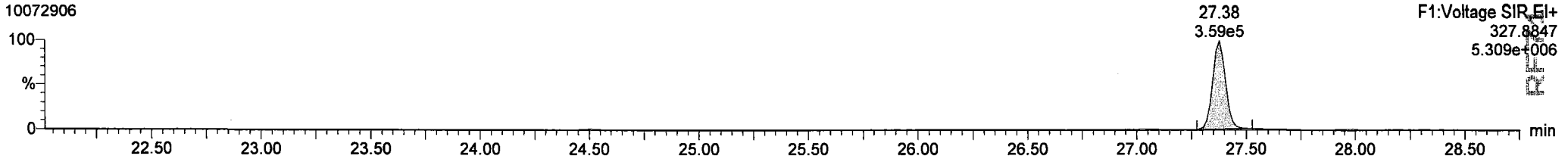
FUNCTION5 PFK



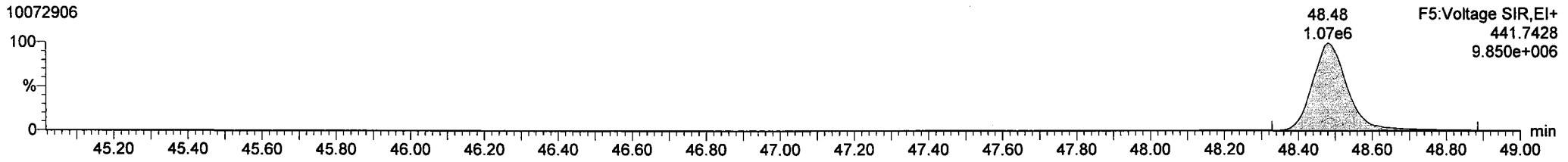
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:21:17 Pacific Daylight Time

Name: 10072906, Date: 29-Jul-2010, Time: 14:24:48, ID: CS3, Description: , Lab: , User: PK

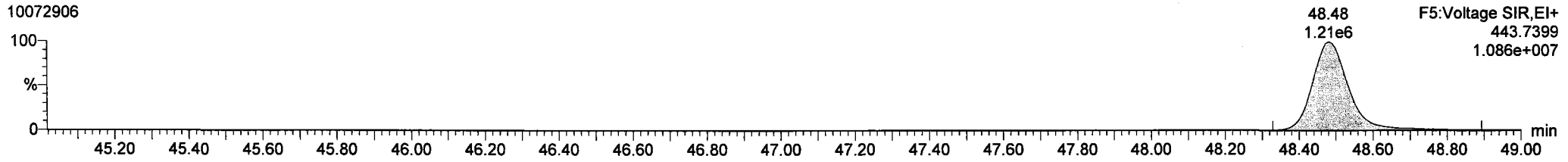
37CL-2378-TCDD



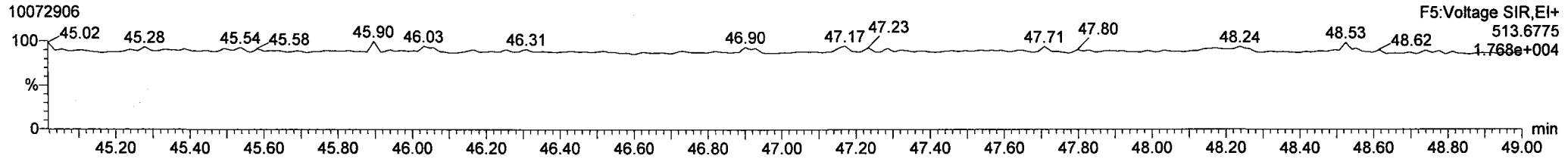
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:25:58 Pacific Daylight Time

8.4.10

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072907, Date: 29-Jul-2010, Time: 15:21:58, ID: CS4, Lab: , Conditions: METHOD 8290A, User: PK

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
1	1	2378-TCDF	303.9016	26.75	26.72	1717164	0.871		39.17	bb	97.9	0.75	0.77	NO	39.17
2	2	12378-PeCDF	339.8597	30.89	30.87	7333697	0.890		204.05	bd	102.0	1.54	1.55	NO	204.05
3	3	23478-PeCDF	339.8597	32.23	32.21	7353106	0.913		202.11	db	101.1	1.51	1.55	NO	202.11
4	4	123478-HxCDF	373.8208	35.89	35.87	6541366	1.087		200.64	bd	100.3	1.23	1.24	NO	200.64
5	5	234678-HxCDF	373.8208	36.97	36.95	6745716	1.066		199.09	bb	99.5	1.22	1.24	NO	199.09
6	6	123678-HxCDF	373.8208	36.04	36.02	6978837	1.043		199.36	db	99.7	1.23	1.24	NO	199.36
7	7	123789-HxCDF	373.8208	38.07	38.05	6052254	1.001		206.22	bd	103.1	1.23	1.24	NO	206.22
8	8	1234678-HpCDF	407.7818	40.17	40.16	6149271	1.234		200.15	bb	100.1	1.02	1.05	NO	200.15
9	9	1234789-HpCDF	407.7818	42.98	42.96	4956823	1.233		195.78	bb	97.9	1.03	1.05	NO	195.78
10	10	OCDF	441.7428	48.49	48.46	10092010	1.128		412.48	bb	103.1	0.90	0.89	NO	412.48
11	11	2378-TCDD	319.8965	27.38	27.36	1347152	1.041		39.36	bb	98.4	0.76	0.77	NO	39.36
12	12	12378-PeCDD	355.8546	32.48	32.46	5259417	0.969		200.20	bb	100.1	1.54	1.55	NO	200.20
13	13	123478-HxCDD	389.8157	37.11	37.08	5082862	0.967		202.62	bd	101.3	1.25	1.24	NO	202.62
14	14	123678-HxCDD	389.8157	37.23	37.22	5214934	0.893		203.46	db	101.7	1.27	1.24	NO	203.46
15	15	123789-HxCDD	389.8157	37.64	37.66	5035133	0.909		202.77	bd	101.4	1.21	1.24	NO	202.77
16	16	1234678-HpCDD	423.7766	42.05	42.03	4321871	0.982		202.29	bb	101.1	1.07	1.05	NO	202.29
17	17	OCDD	457.7377	48.19	48.18	8803899	0.985		412.03	bd	103.0	0.88	0.89	NO	412.03
18	18	13C-2378-TCDF	315.9419	26.72	26.72	5030915	1.608		99.94	bb	99.9	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.87	30.87	4039255	1.281		100.77	bb	100.8	1.53	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.21	3984384	1.261		100.93	bb	100.9	1.55	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.87	35.87	3000724	1.131		99.23	bd	99.2	0.52	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.02	36.02	3356139	1.260		99.59	dd	99.6	0.51	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.95	36.95	3179290	1.193		99.65	bb	99.6	0.52	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.05	38.05	2933019	1.097		99.99	bb	100.0	0.52	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.16	40.15	2488903	0.934		99.63	bb	99.6	0.44	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.96	42.96	2052853	0.760		100.98	bd	101.0	0.45	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.54	26.54	3130193	1.000		100.00	bb	100.0	0.78	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.36	27.36	3286090	1.041		100.87	bb	100.9	0.78	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.46	32.46	2710322	0.847		102.24	bb	102.2	1.57	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.08	37.08	2595348	0.965		100.52	bd	100.5	1.26	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.22	37.22	2869703	1.072		100.12	db	100.1	1.27	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.03	2175321	0.806		100.91	bb	100.9	1.04	1.05	NO	
33	33	13C-OCDD	469.7779	48.18	48.17	4337685	0.814		199.11	bb	99.6	0.89	0.89	NO	

Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:25:58 Pacific Daylight Time

Name: 10072907, Date: 29-Jul-2010, Time: 15:21:58, ID: CS4, Lab: , Conditions: METHOD 8290A, User: PK

	# Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
34	34 13C-123789-HxCDD	401.8559	37.62	37.62	2674716	1.000		100.00	bb	100.0	1.22	1.24	NO	
35	35 Total-tetrafurans	303.9016		0.00		0.871		39.17						
36	36 Total-penta1	339.8597		28.08		1.141						1.55		
37	37 Total-pentafurans	339.8597		0.00		0.901		406.16						
38	38 Total-hexafurans	373.8208		0.00		1.049		805.31						
39	39 Total-heptafurans	407.7818		0.00		1.234		395.92						
40	40 Total-Furans	303.9016		0.00		1.055		2059.03						
41	41 Total-tetradioxins	319.8965		0.00		1.041		39.36						
42	42 Total-pentadioxins	355.8546		0.00		0.969		200.20						
43	43 Total-hexadioxins	389.8157		0.00		0.923		608.85						
44	44 Total-heptadioxins	423.7766		0.00		0.982		202.29						
45	45 Total-Dioxins	319.8965		0.00		0.964		1462.74						
46	46 Total-TEQ	319.8965		0.00				3521.77						
47	47 37CL-2378-TCDD	327.8847	27.38	27.38	1459097	1.166		39.97		99.9				
48	48 FUNCTION1 PFK	330.9792		0.00										
49	49 FUNCTION2 PFK	366.9792		0.00				0.00						
50	50 FUNCTION3 PFK	380.9760		0.00				0.00						
51	51 FUNCTION4 PFK	430.9728		0.00										
52	52 FUNCTION5 PFK	480.9696		0.00										
53	53 FUNCTION1 HXCDPE	375.8364		0.00										
54	54 FUNCTION1 HPCDPE	409.7974		0.00										
55	55 FUNCTION2 HPCDPE	409.7974		0.00				0.00						
56	56 FUNCTION3 OCDPE	445.7555		0.00										
57	57 FUNCTION4 NCDPE	479.7165		0.00										
58	58 FUNCTION5 DCDPE	513.6775		0.00										

Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
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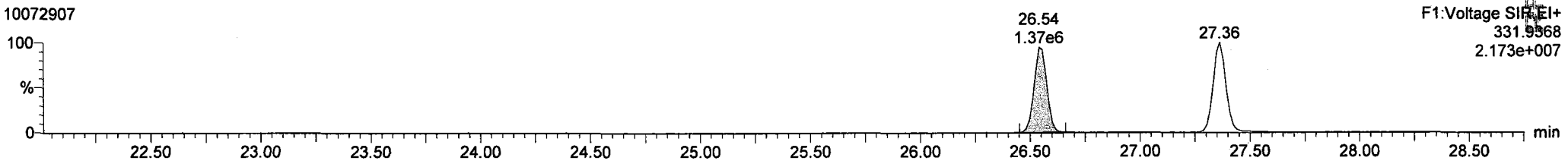
Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072907, Date: 29-Jul-2010, Time: 15:21:58, ID: CS4, Description: , Lab: , User: PK

13C-1234-TCDD



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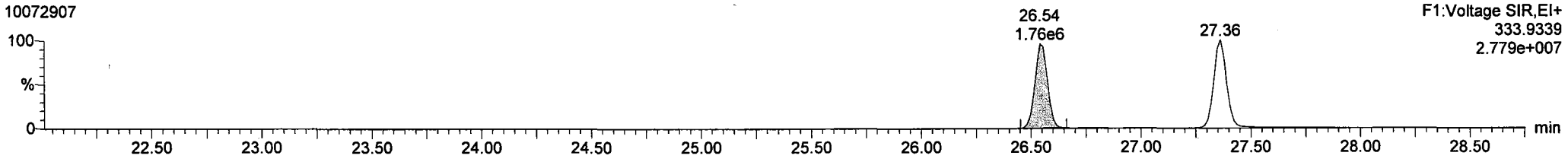

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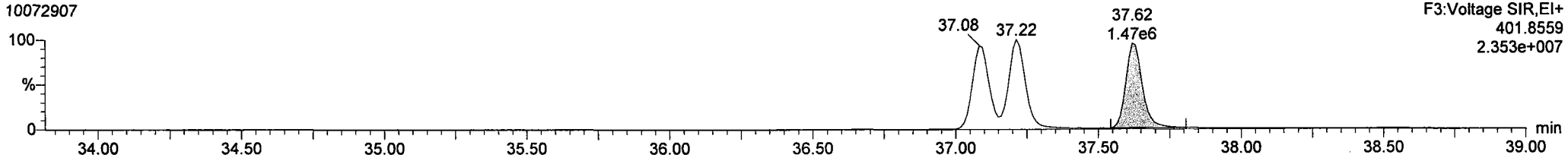

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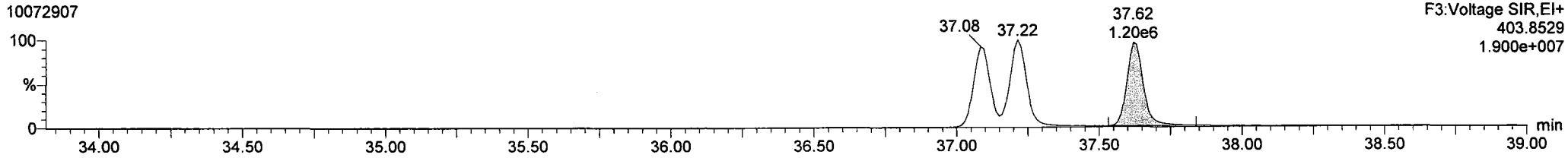

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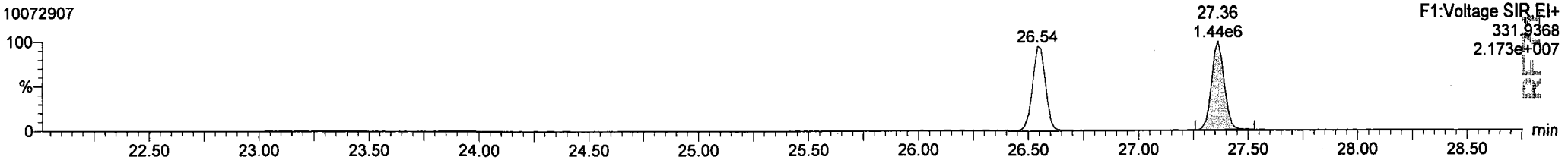
Name: 10072907, Date: 29-Jul-2010, Time: 15:21:58, ID: CS4, Description: , Lab: , User: PK

13C-2378-TCDD



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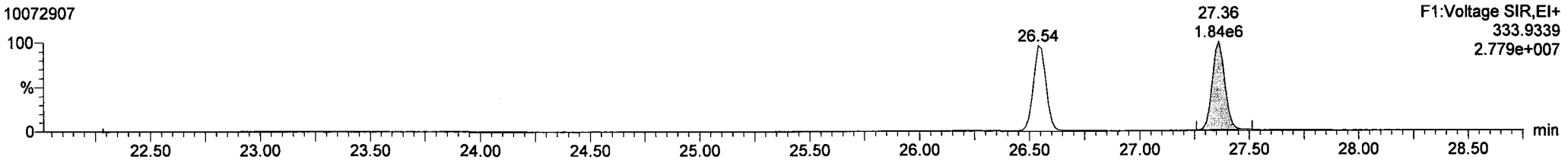
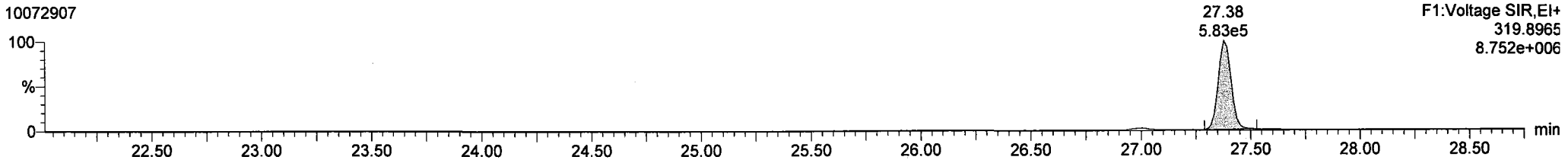
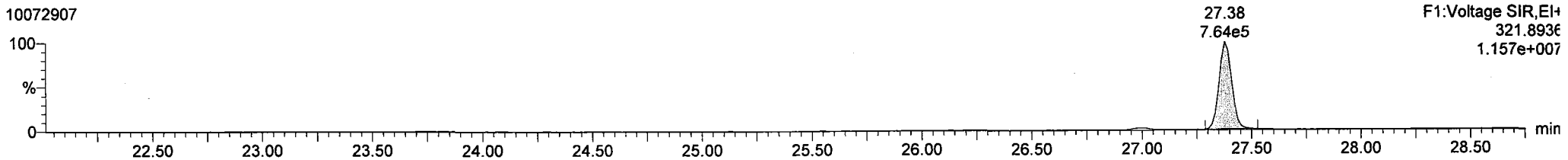


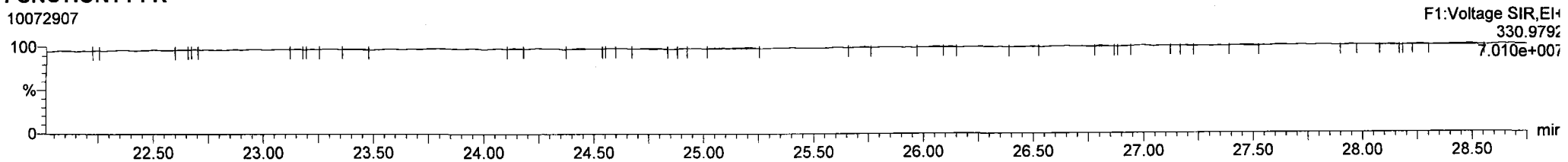
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



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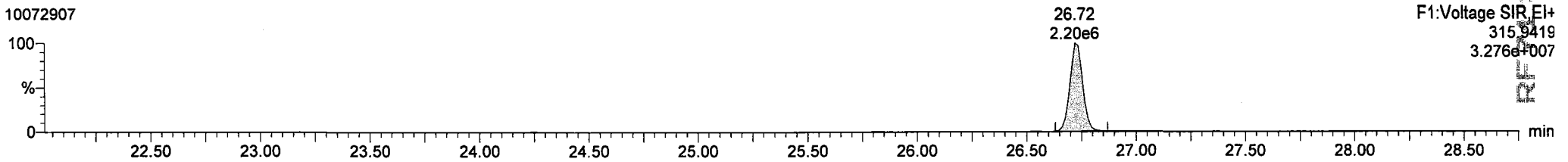

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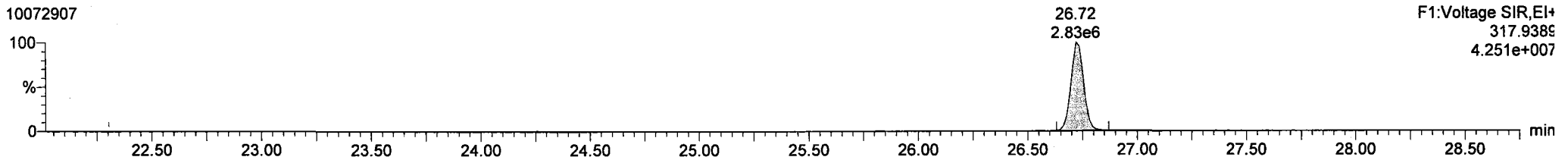
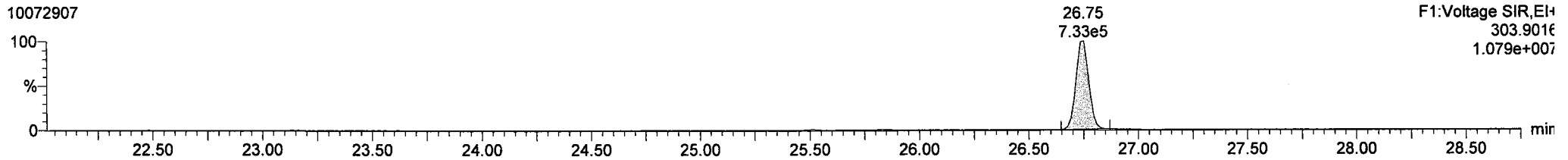
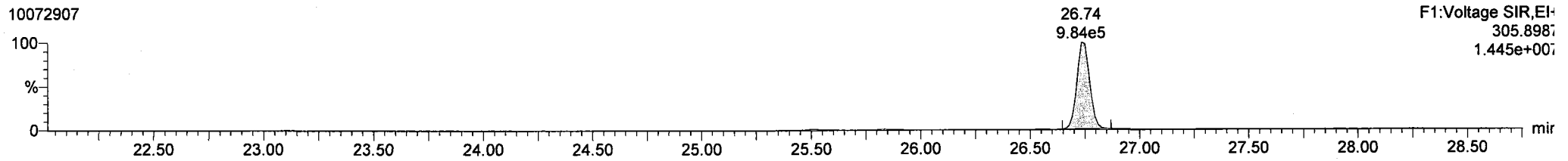


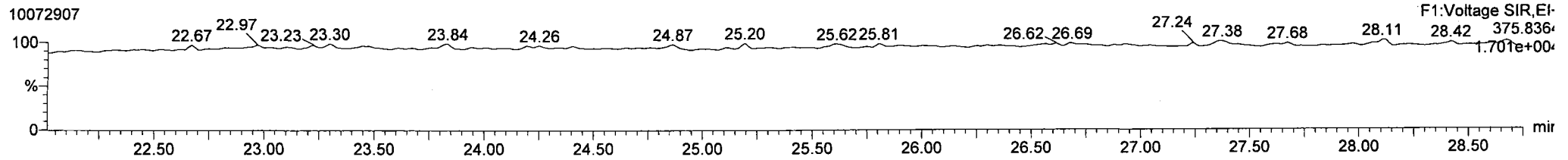
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



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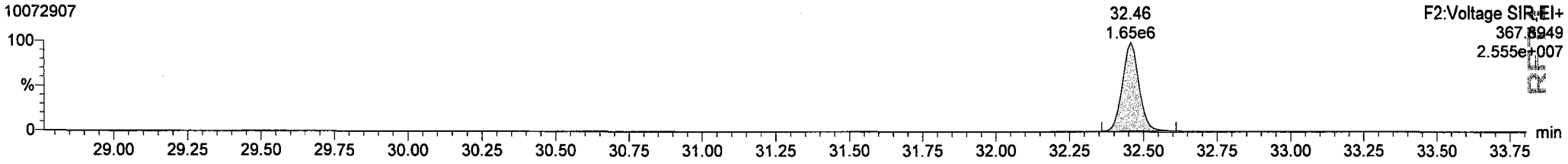
Name: 10072907, Date: 29-Jul-2010, Time: 15:21:58, ID: CS4, Description: , Lab: , User: PK

13C-12378-PeCDD



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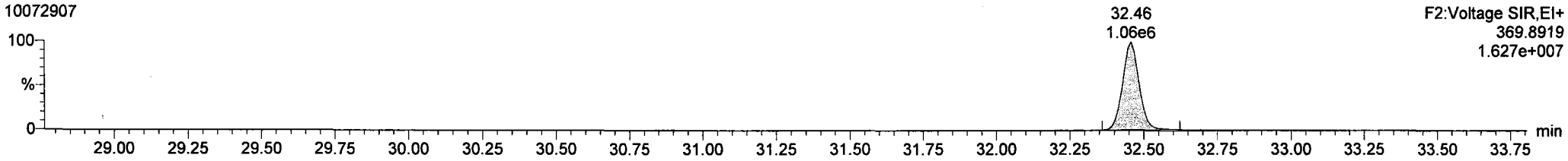
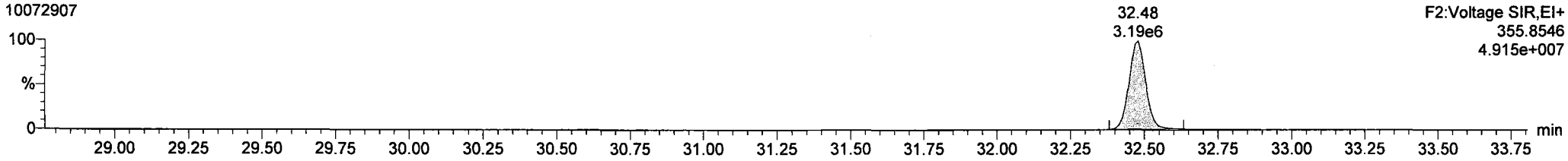
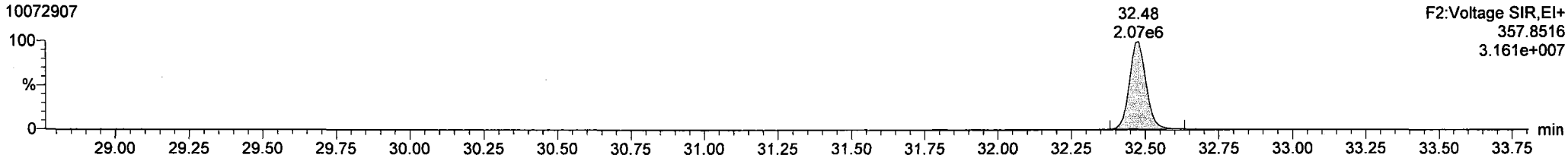


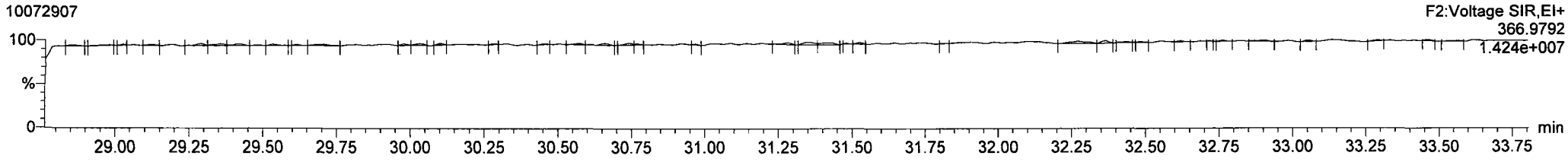
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



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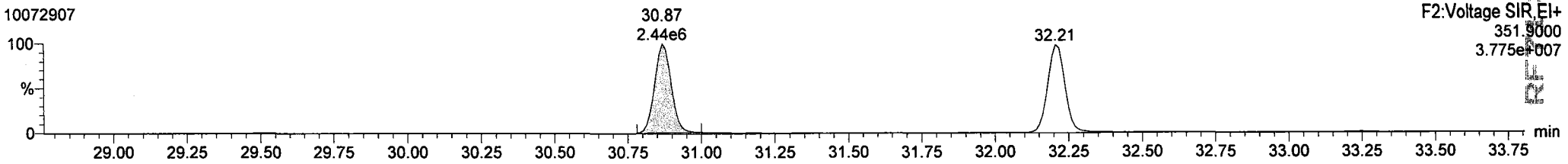
13C-12378-PeCDF



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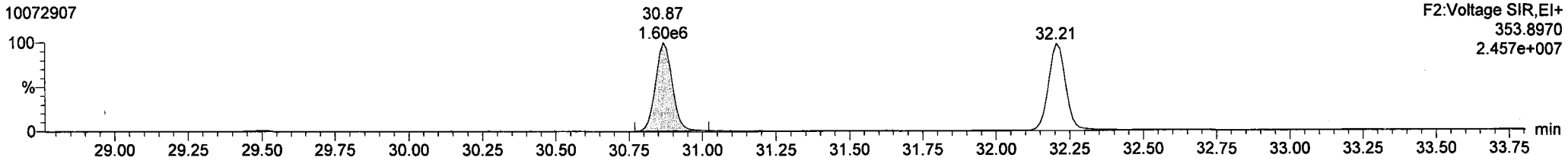
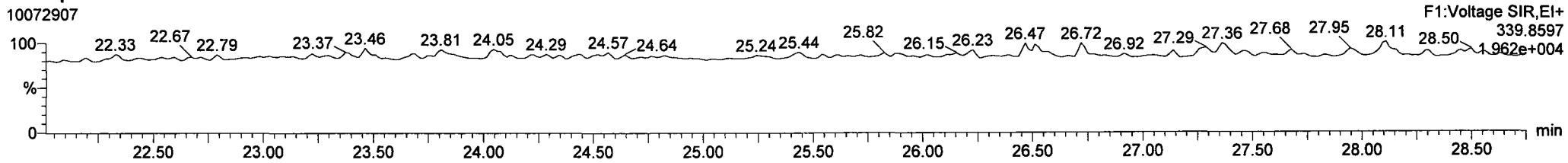
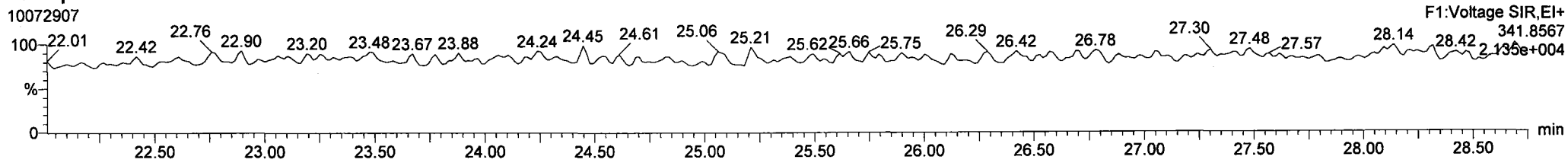


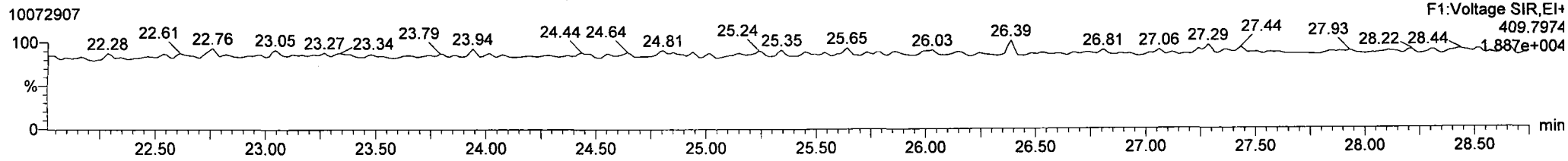
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



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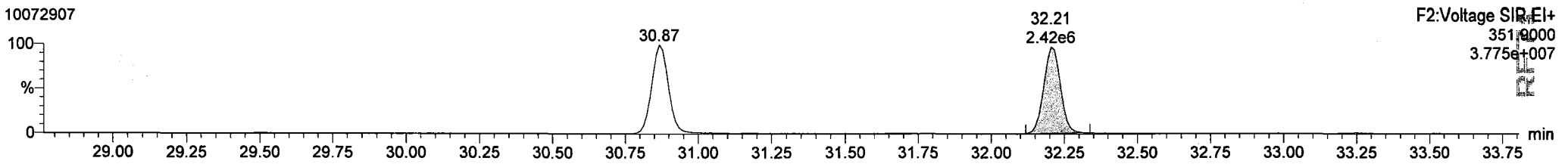
13C-23478-PeCDF



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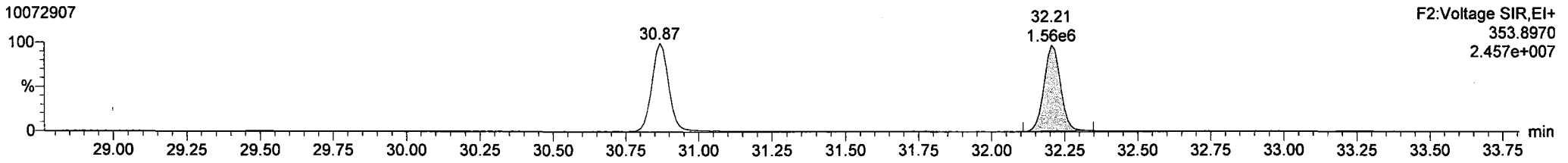
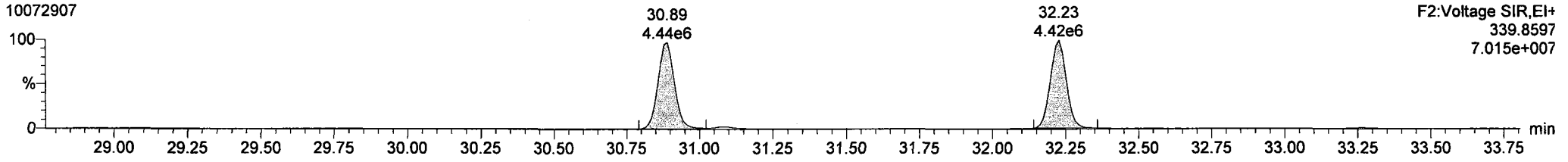


Total-pentafurans



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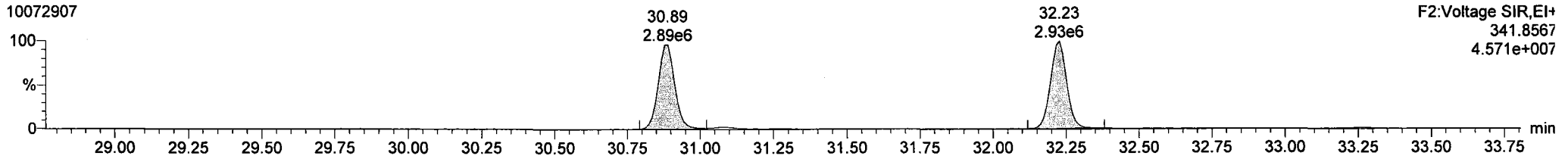

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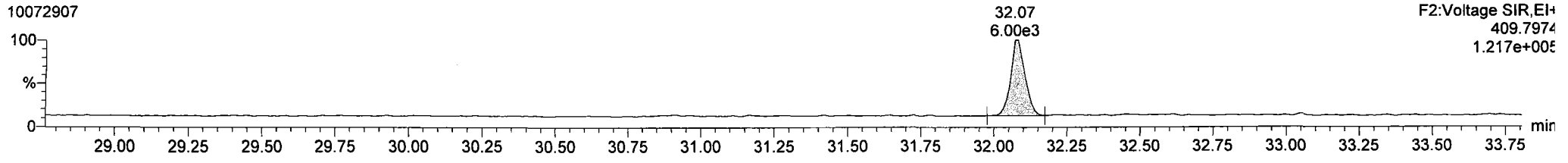

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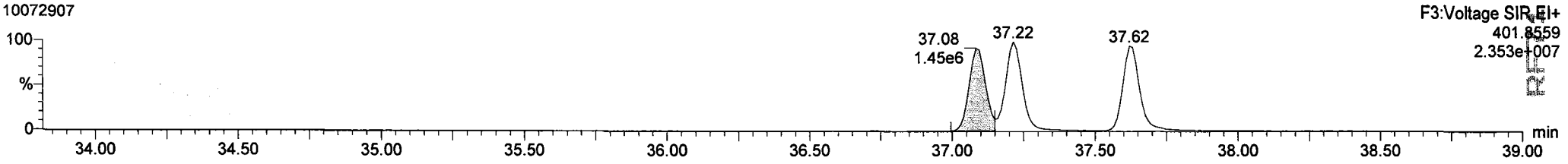

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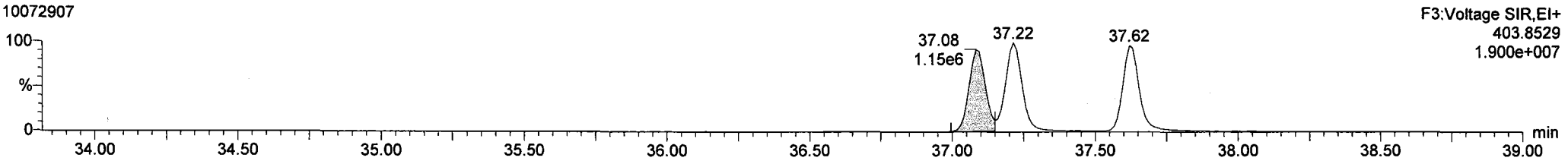
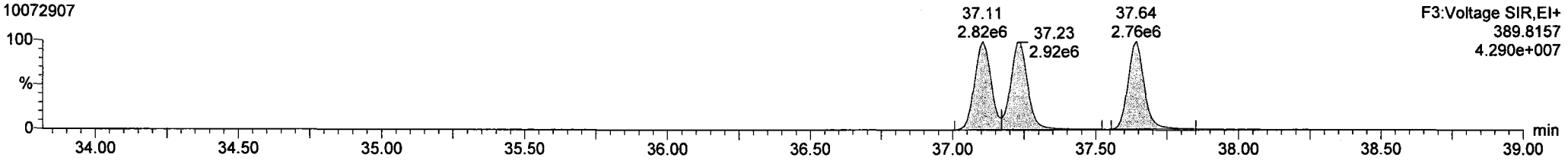
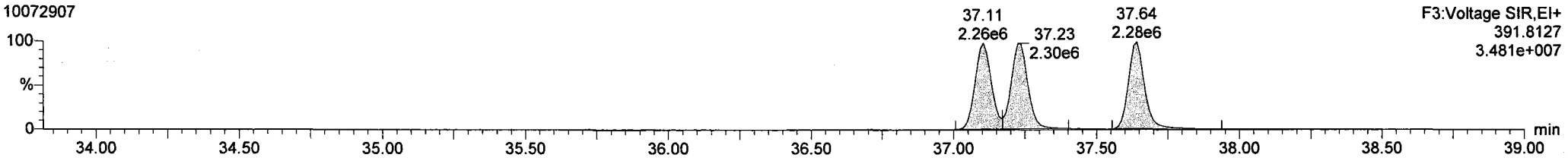


Total-hexadioxins



Total-hexadioxins



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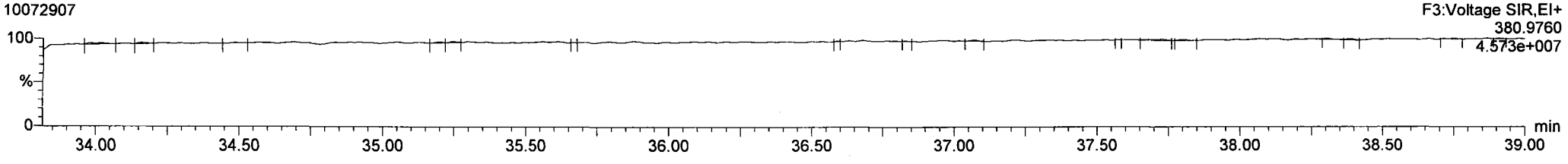

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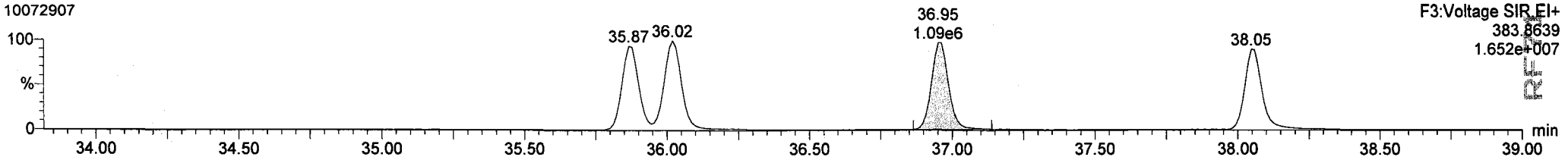

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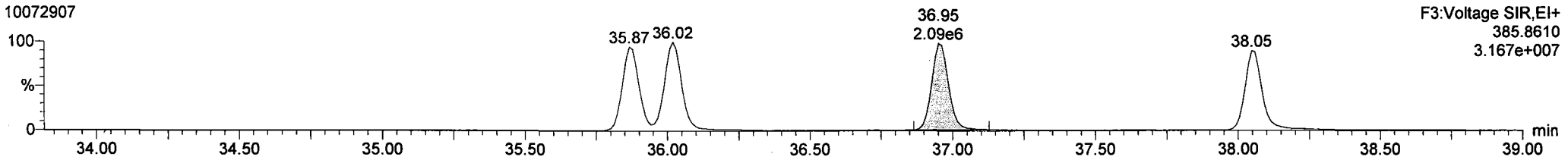
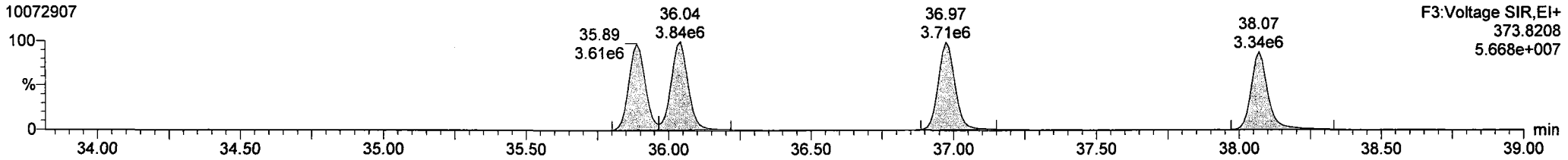
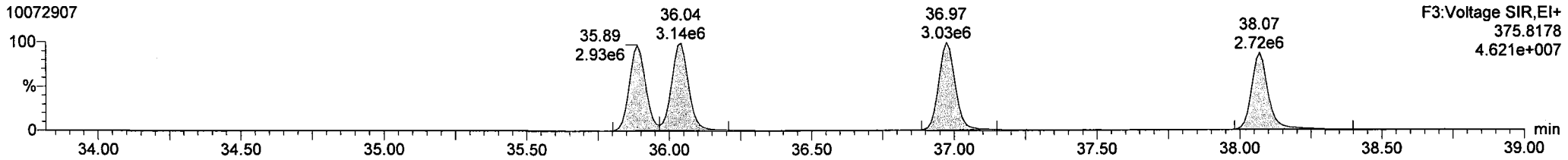


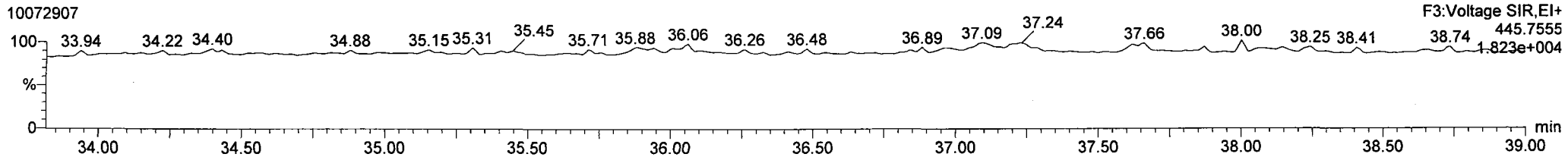
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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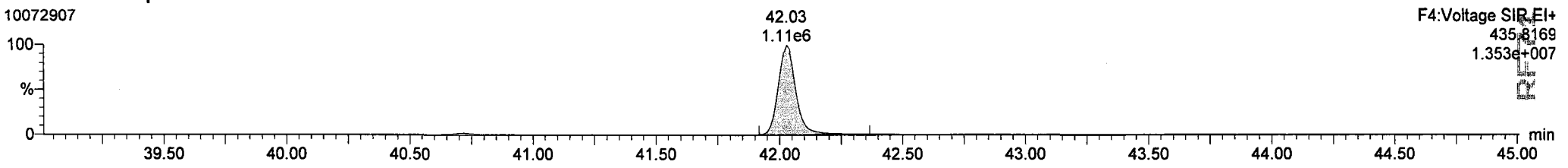
13C-1234678-HpCDD



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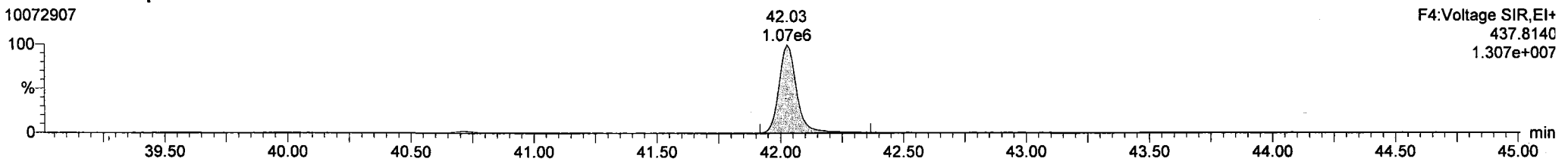
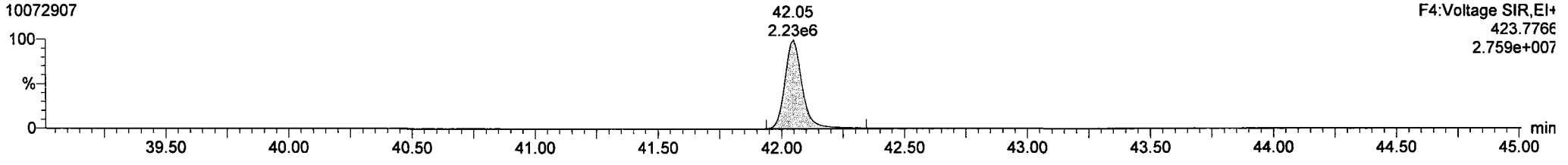
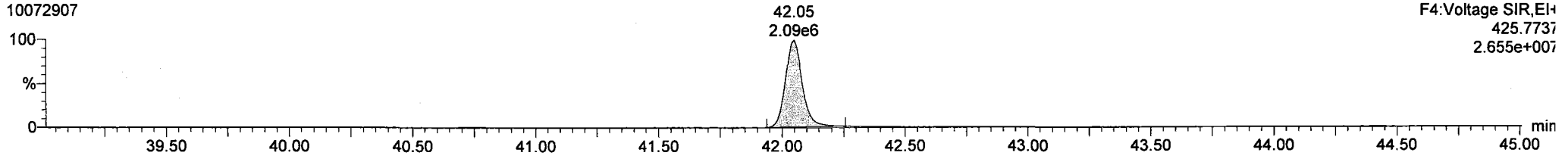


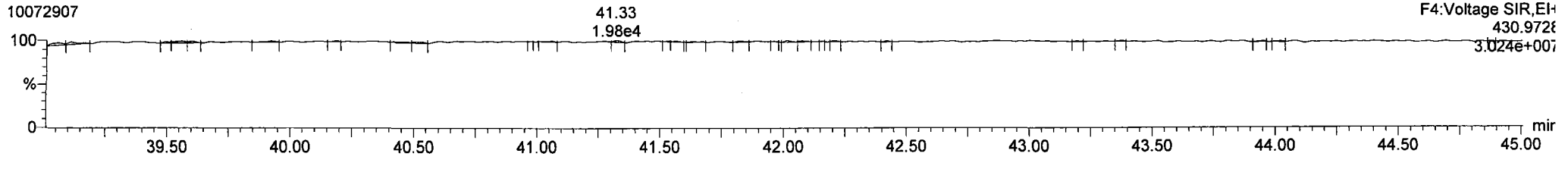
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



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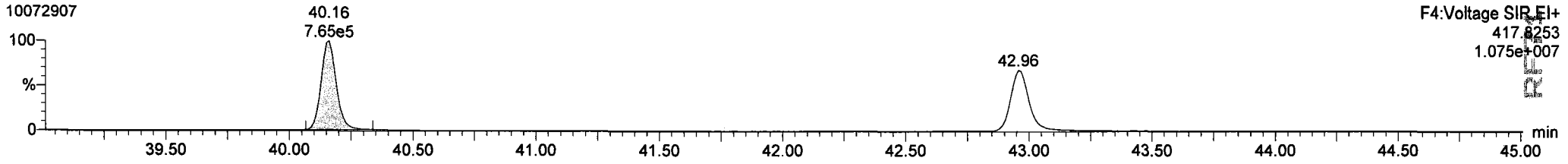
13C-1234678-HpCDF



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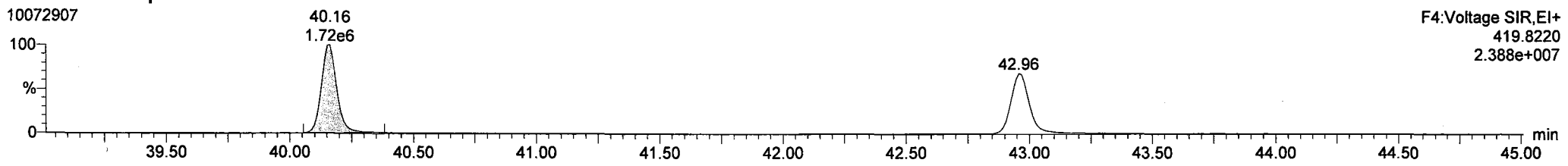
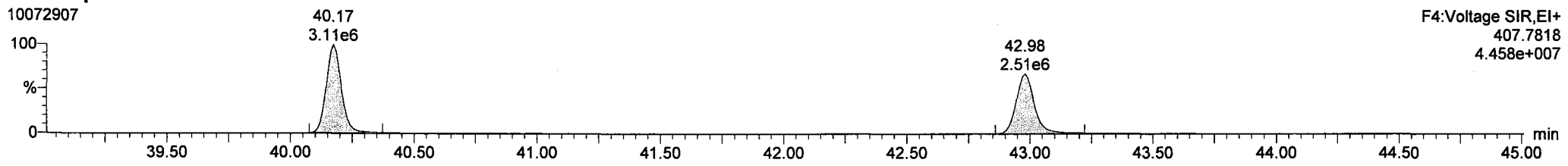


Total-heptafurans



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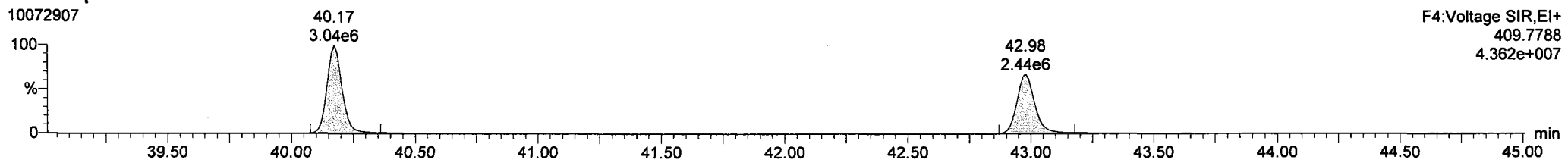
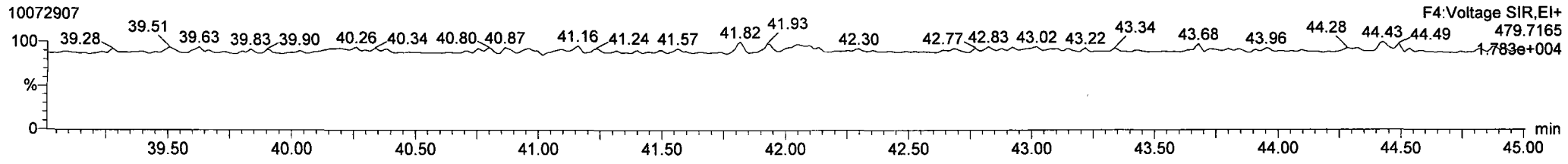


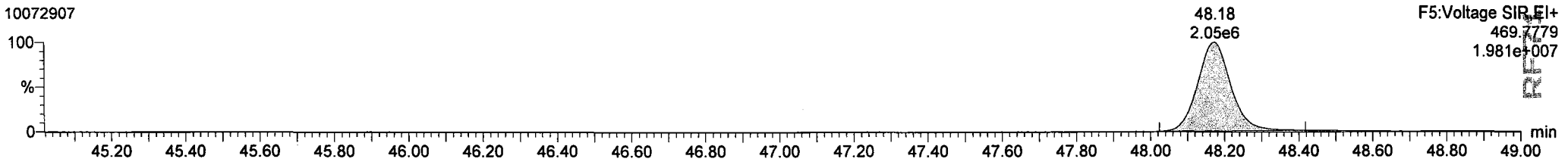
FUNCTION4 NCDPE



Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:25:58 Pacific Daylight Time

Name: 10072907, Date: 29-Jul-2010, Time: 15:21:58, ID: CS4, Description: , Lab: , User: PK

13C-OCDD



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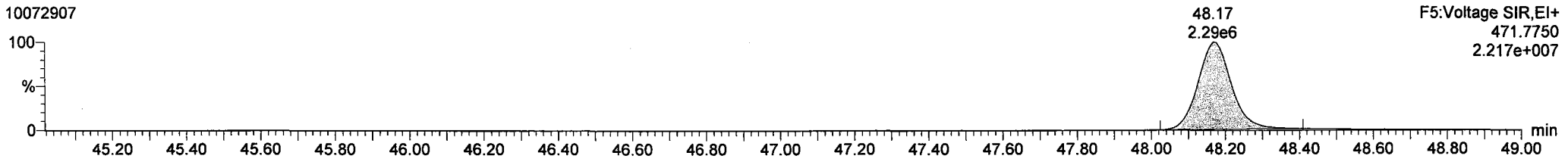

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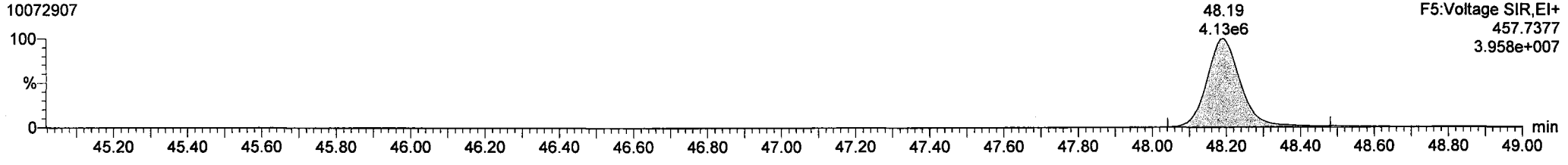

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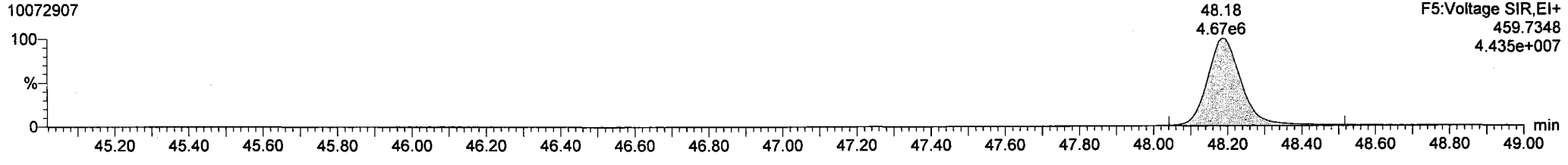
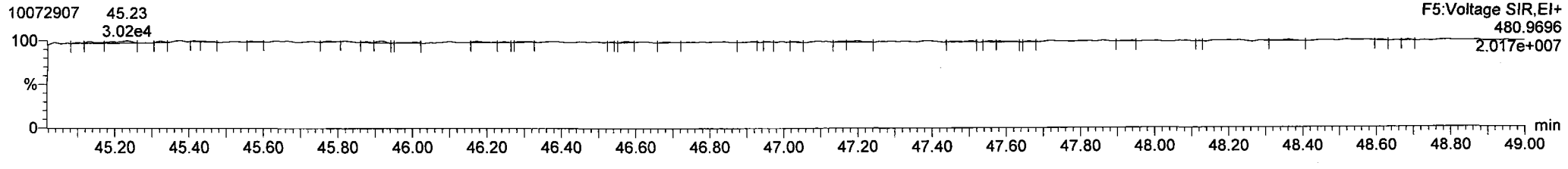


FUNCTION5 PFK



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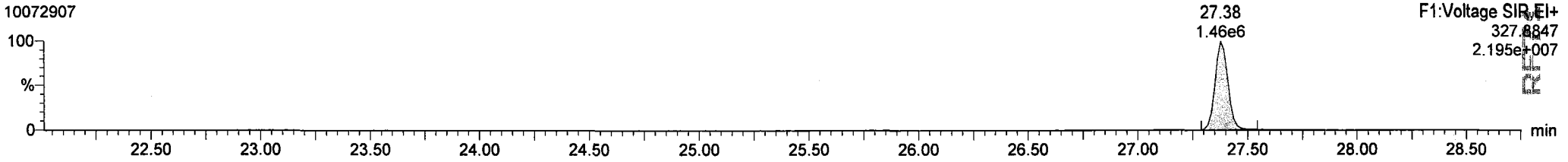
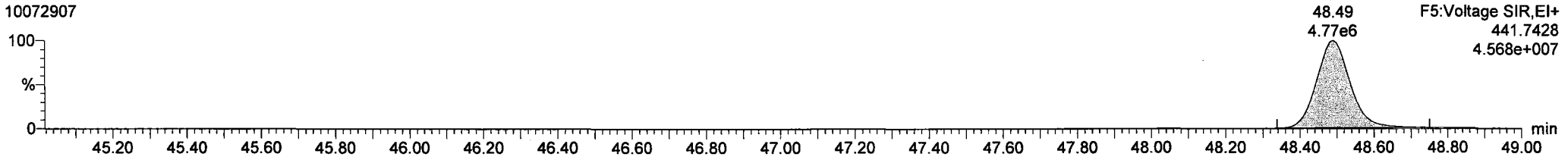
Printed: Wednesday, August 04, 2010 09:25:58 Pacific Daylight Time

Name: 10072907, Date: 29-Jul-2010, Time: 15:21:58, ID: CS4, Description: , Lab: , User: PK

37CL-2378-TCDD



OCDF



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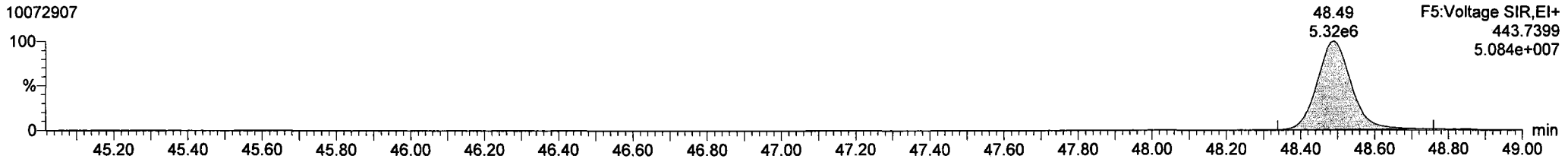
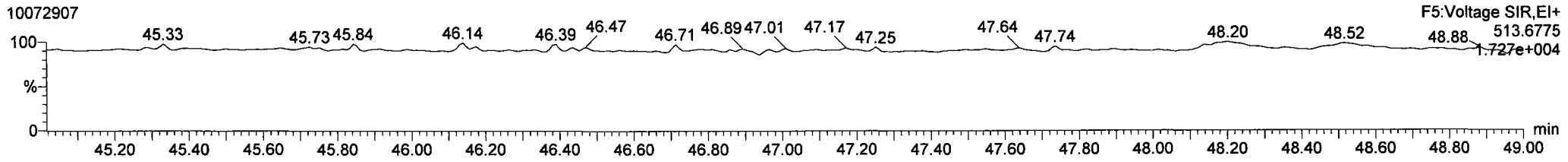


FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:26:57 Pacific Daylight Time

US 8.4.10

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072908, Date: 29-Jul-2010, Time: 16:12:16, ID: CS5, Lab: , Conditions: METHOD 8290A, User: PK

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det....	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
1	1	2378-TCDF	303.9016	26.74	26.72	8908098	0.871		196.71	bb	98.4	0.75	0.77	NO	196.71
2	2	12378-PeCDF	339.8597	30.88	30.86	40007086	0.890		1032.01	bd	103.2	1.53	1.55	NO	1032.01
3	3	23478-PeCDF	339.8597	32.22	32.21	40183943	0.913		1021.10	bb	102.1	1.53	1.55	NO	1021.10
4	4	123478-HxCDF	373.8208	35.89	35.87	36309487	1.087		1001.13	bd	100.1	1.23	1.24	NO	1001.13
5	5	234678-HxCDF	373.8208	36.97	36.95	37546728	1.066		1020.55	bb	102.1	1.22	1.24	NO	1020.55
6	6	123678-HxCDF	373.8208	36.03	36.01	38342398	1.043		1023.14	db	102.3	1.23	1.24	NO	1023.14
7	7	123789-HxCDF	373.8208	38.07	38.05	33273107	1.001		1021.06	bb	102.1	1.23	1.24	NO	1021.06
8	8	1234678-HpCDF	407.7818	40.17	40.15	34185916	1.234		1013.47	bb	101.3	1.02	1.05	NO	1013.47
9	9	1234789-HpCDF	407.7818	42.98	42.96	28568104	1.233		1022.13	bb	102.2	1.02	1.05	NO	1022.13
10	10	OCDF	441.7428	48.50	48.46	59509174	1.128		2074.11	bb	103.7	0.90	0.89	NO	2074.11
11	11	2378-TCDD	319.8965	27.38	27.35	7169022	1.041		200.85	bb	100.4	0.77	0.77	NO	200.85
12	12	12378-PeCDD	355.8546	32.47	32.45	28848172	0.969		1015.65	bb	101.6	1.54	1.55	NO	1015.65
13	13	123478-HxCDD	389.8157	37.11	37.08	28153311	0.967		999.20	bd	99.9	1.24	1.24	NO	999.20
14	14	123678-HxCDD	389.8157	37.23	37.21	28312386	0.893		1023.16	db	102.3	1.23	1.24	NO	1023.16
15	15	123789-HxCDD	389.8157	37.63	37.66	28077892	0.909		1027.63	bb	102.8	1.23	1.24	NO	1027.63
16	16	1234678-HpCDD	423.7766	42.05	42.03	24267046	0.982		1029.22	bb	102.9	1.04	1.05	NO	1029.22
17	17	OCDD	457.7377	48.19	48.18	50311148	0.985		2007.91	bb	100.4	0.89	0.89	NO	2007.91
18	18	13C-2378-TCDF	315.9419	26.72	26.72	5196490	1.608		101.83	bb	101.8	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.86	30.87	4356808	1.281		107.22	bb	107.2	1.56	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.21	4309763	1.261		107.70	bb	107.7	1.56	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.87	35.87	3338069	1.131		98.26	bd	98.3	0.52	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.01	36.02	3592842	1.260		94.91	db	94.9	0.53	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.95	36.95	3452235	1.193		96.32	bb	96.3	0.52	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.05	38.05	3256636	1.097		98.83	bb	98.8	0.52	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.15	40.15	2732547	0.934		97.37	bb	97.4	0.45	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.96	42.96	2266151	0.760		99.23	bb	99.2	0.45	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.54	26.54	3173075	1.000		100.00	bb	100.0	0.78	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.35	27.36	3427083	1.041		103.78	bb	103.8	0.79	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.45	32.46	2930363	0.847		109.05	bb	109.1	1.57	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.08	37.08	2915068	0.965		100.50	bd	100.5	1.26	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.21	37.21	3098205	1.072		96.22	db	96.2	1.26	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.03	2400703	0.806		99.13	bb	99.1	1.04	1.05	NO	
33	33	13C-OCDD	469.7779	48.18	48.17	5086649	0.814		207.84	bb	103.9	0.90	0.89	NO	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Wednesday, August 04, 2010 09:17:39 Pacific Daylight Time
Printed: Wednesday, August 04, 2010 09:26:57 Pacific Daylight Time

Name: 10072908, Date: 29-Jul-2010, Time: 16:12:16, ID: CS5, Lab: , Conditions: METHOD 8290A, User: PK

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det....	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
34	34	13C-123789-HxCDD	401.8559	37.62	37.62	3004746	1.000		100.00	bb	100.0	1.24	1.24	NO	
35	35	Total-tetrafurans	303.9016		0.00		0.871		196.71						
36	36	Total-penta1	339.8597		28.08		1.141						1.55		
37	37	Total-pentafurans	339.8597		0.00		0.901		2053.12						
38	38	Total-hexafurans	373.8208		0.00		1.049		4065.88						
39	39	Total-heptafurans	407.7818		0.00		1.234		2035.60						
40	40	Total-Furans	303.9016		0.00		1.055		10425.41						
41	41	Total-tetradioxins	319.8965		0.00		1.041		200.85						
42	42	Total-pentadioxins	355.8546		0.00		0.969		1015.65						
43	43	Total-hexadioxins	389.8157		0.00		0.923		3049.99						
44	44	Total-heptadioxins	423.7766		0.00		0.982		1029.22						
45	45	Total-Dioxins	319.8965		0.00		0.964		7303.62						
46	46	Total-TEQ	319.8965		0.00				17729.03						
47	47	37CL-2378-TCDD	327.8847	27.38	27.38	7751518	1.166		209.50		104.7				
48	48	FUNCTION1 PFK	330.9792		0.00										
49	49	FUNCTION2 PFK	366.9792		0.00				0.00						
50	50	FUNCTION3 PFK	380.9760		0.00				0.00						
51	51	FUNCTION4 PFK	430.9728		0.00										
52	52	FUNCTION5 PFK	480.9696		0.00										
53	53	FUNCTION1 HXCDPE	375.8364		0.00										
54	54	FUNCTION1 HPCDPE	409.7974		0.00										
55	55	FUNCTION2 HPCDPE	409.7974		0.00				0.00						
56	56	FUNCTION3 OCDPE	445.7555		0.00										
57	57	FUNCTION4 NCDPE	479.7165		0.00										
58	58	FUNCTION5 DCDPE	513.6775		0.00				0.00						

Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
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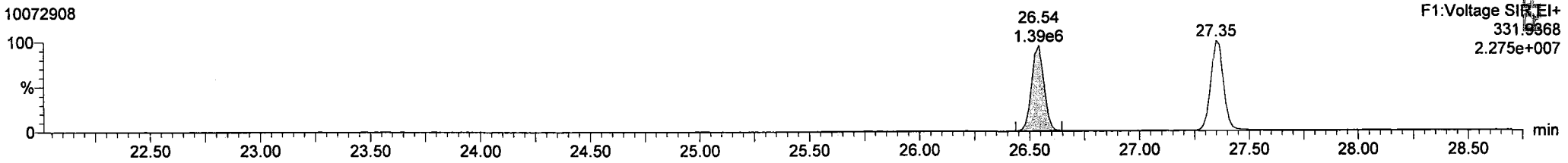
Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: 04 Aug 2010 09:17:39

Name: 10072908, Date: 29-Jul-2010, Time: 16:12:16, ID: CS5, Description: , Lab: , User: PK

13C-1234-TCDD



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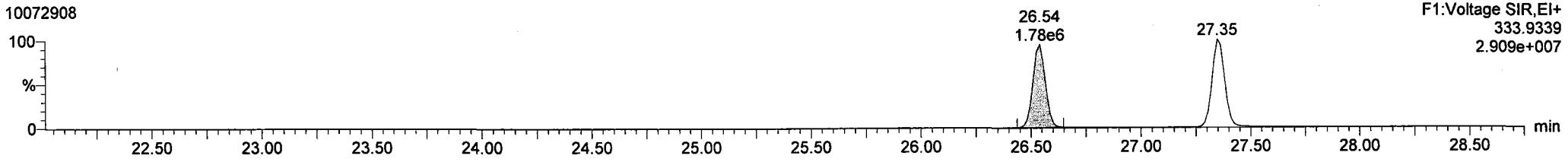

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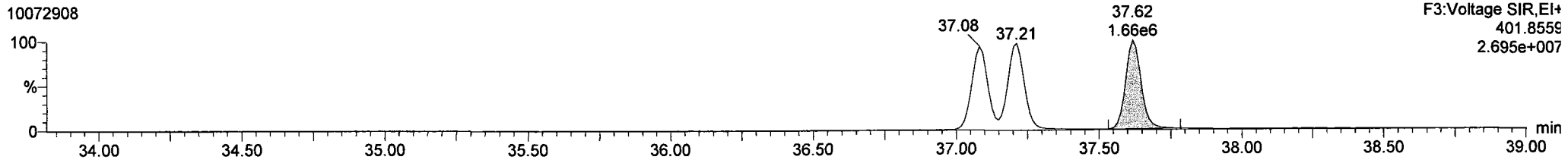

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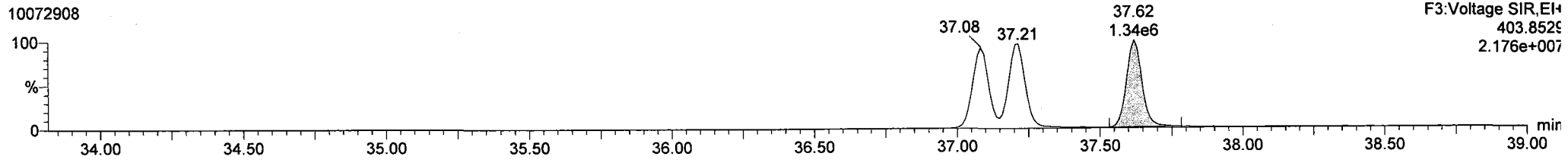

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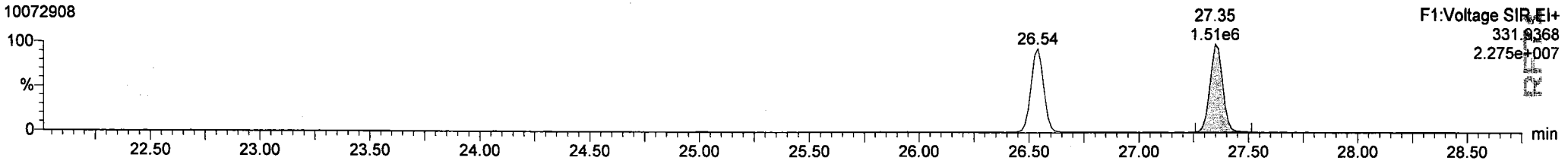
13C-2378-TCDD



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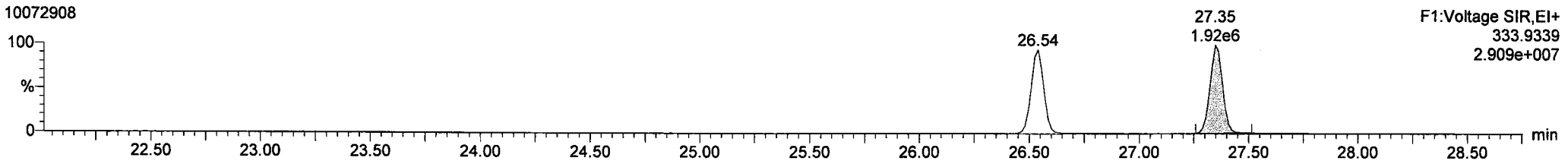
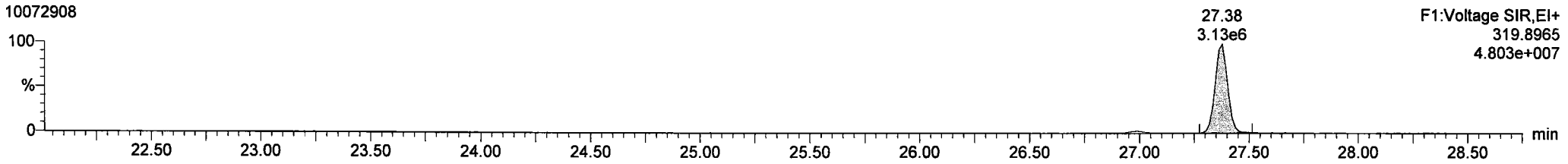
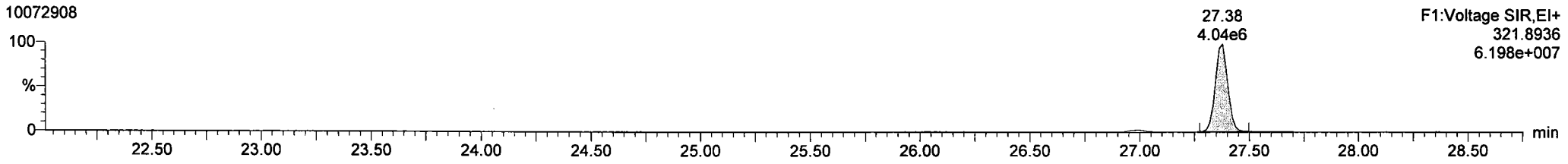


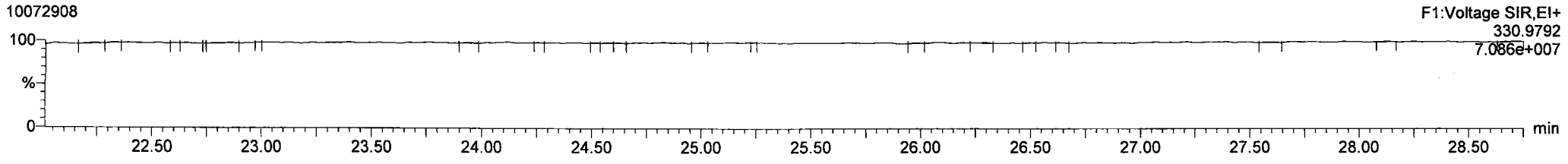
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
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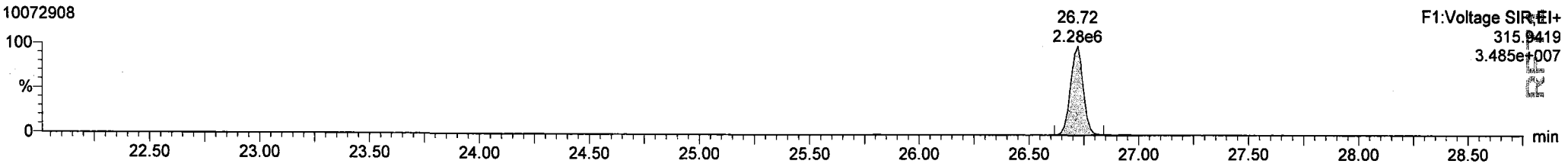
Name: 10072908, Date: 29-Jul-2010, Time: 16:12:16, ID: CS5, Description: , Lab: , User: PK

13C-2378-TCDF



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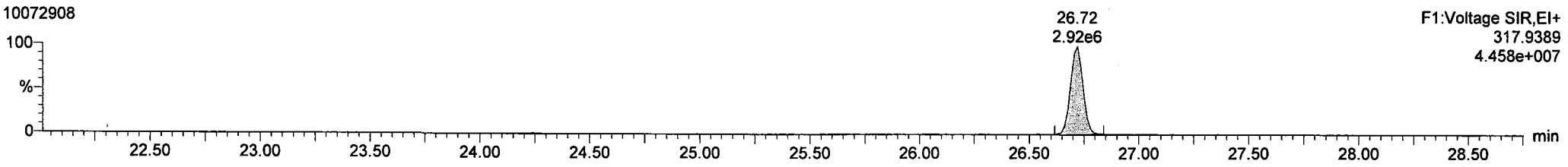
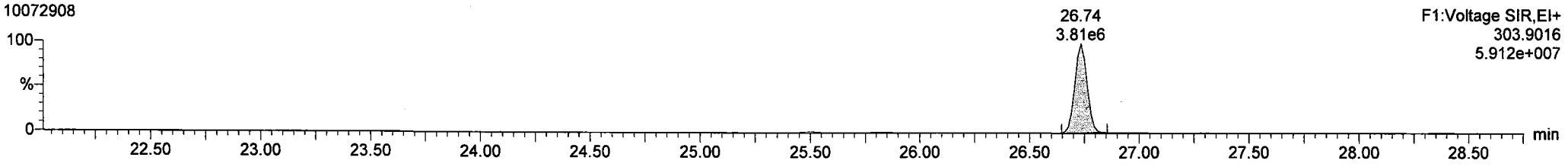
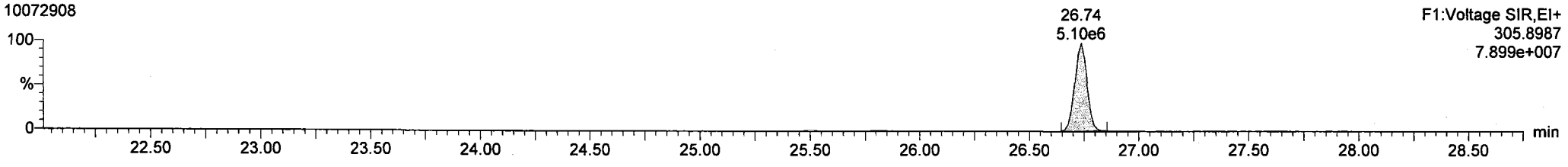


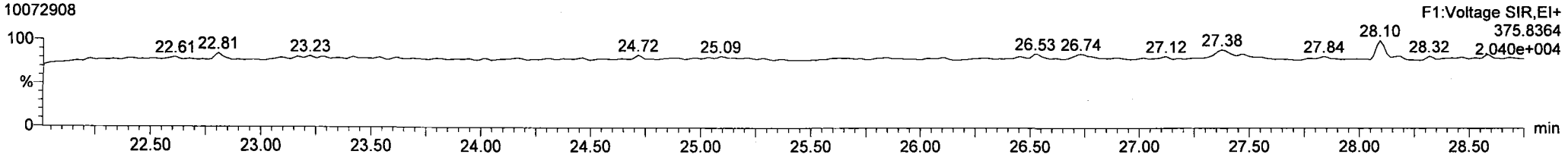
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



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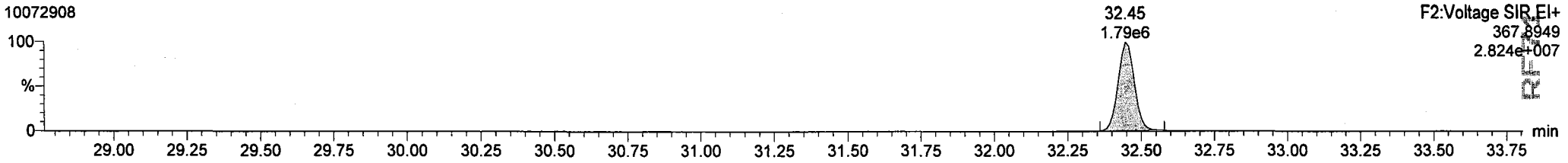
Printed: Wednesday, August 04, 2010 09:26:57 Pacific Daylight Time

Name: 10072908, Date: 29-Jul-2010, Time: 16:12:16, ID: CS5, Description: , Lab: , User: PK

13C-12378-PeCDD



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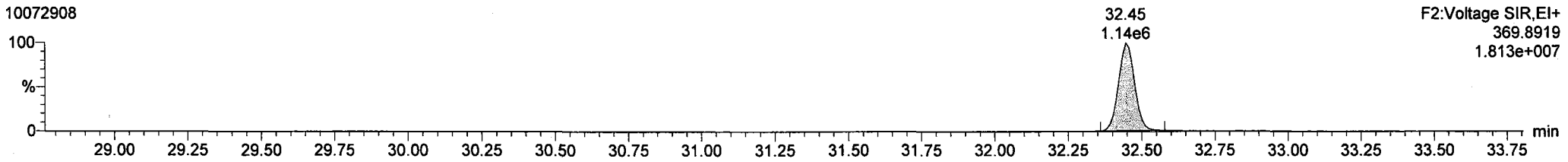

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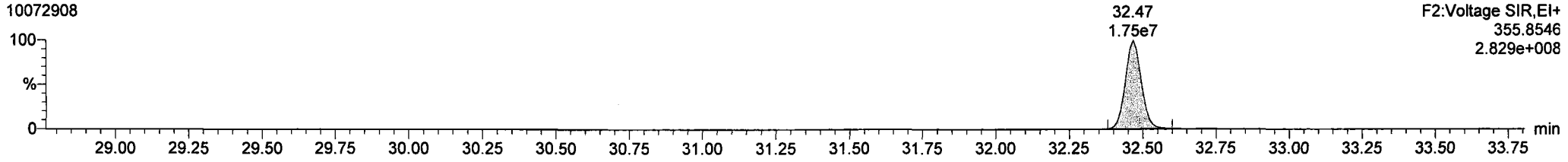
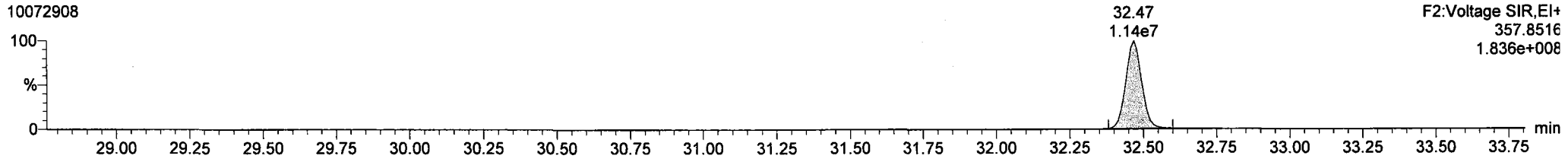
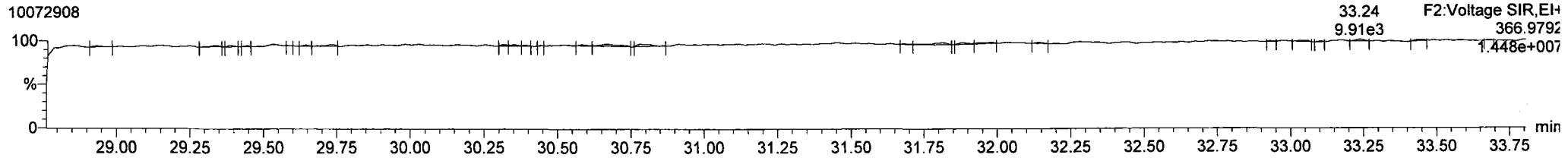


Total-pentadioxins



FUNCTION2 PFK



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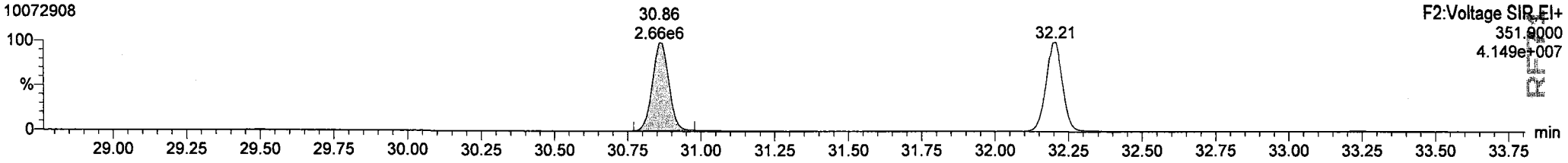
13C-12378-PeCDF



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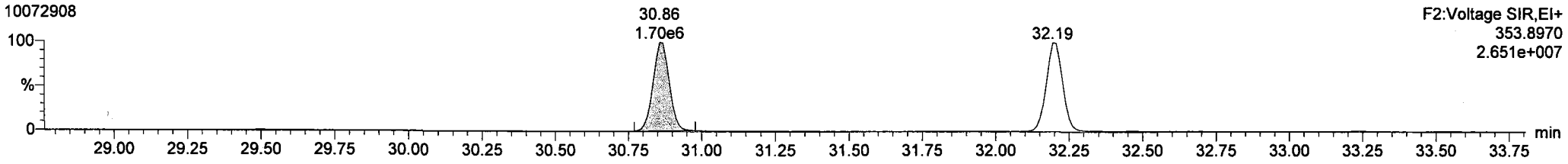

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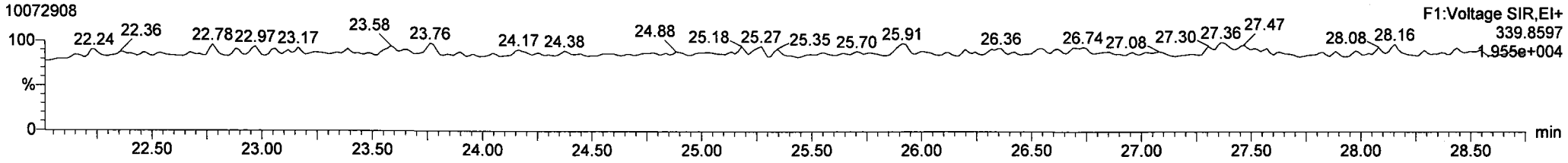

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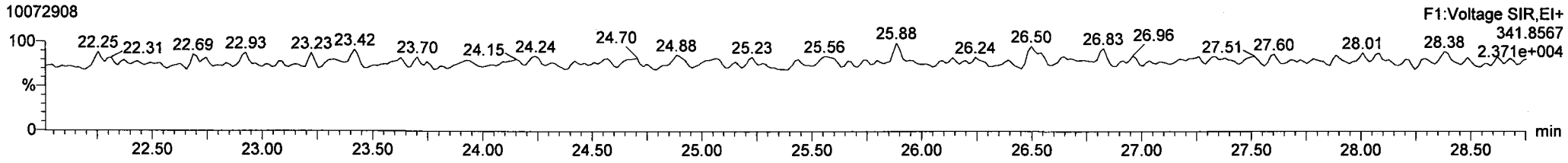

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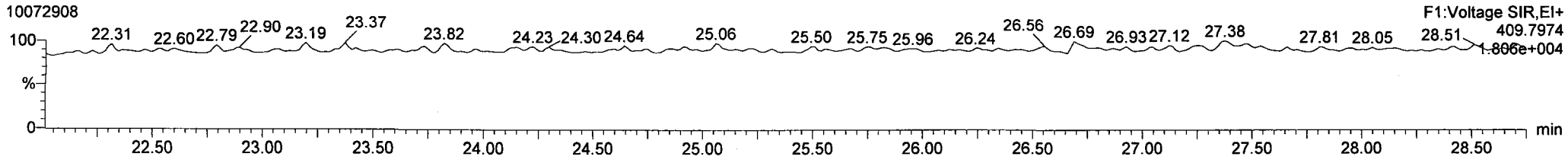

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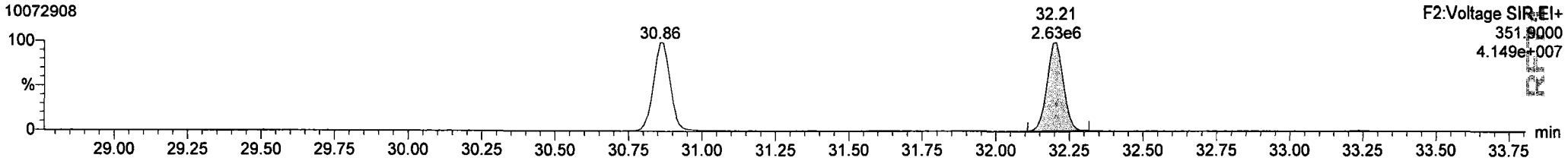
13C-23478-PeCDF



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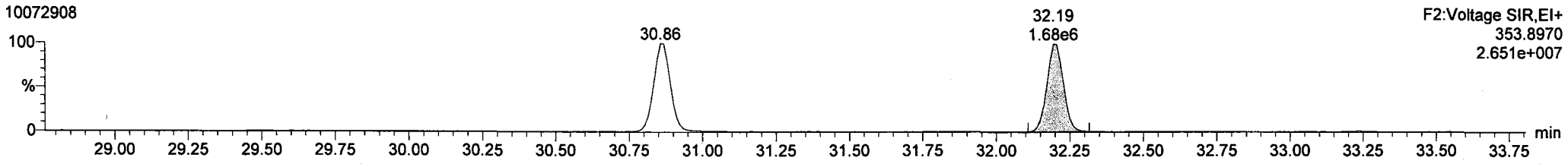
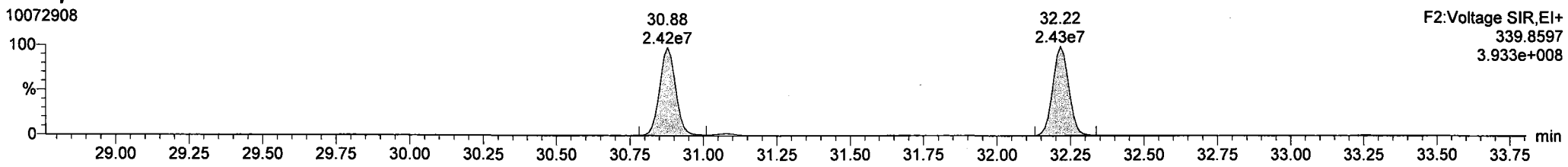
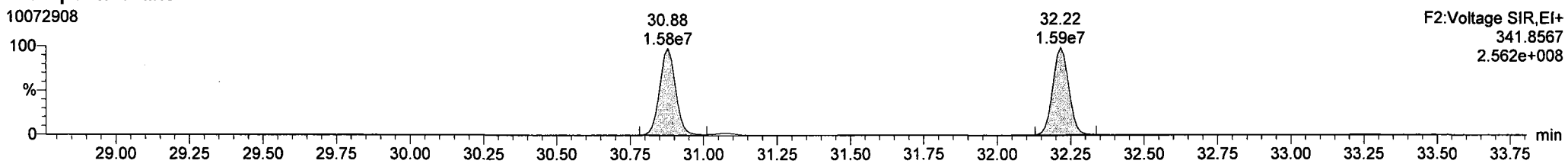


Total-pentafurans



Total-pentafurans



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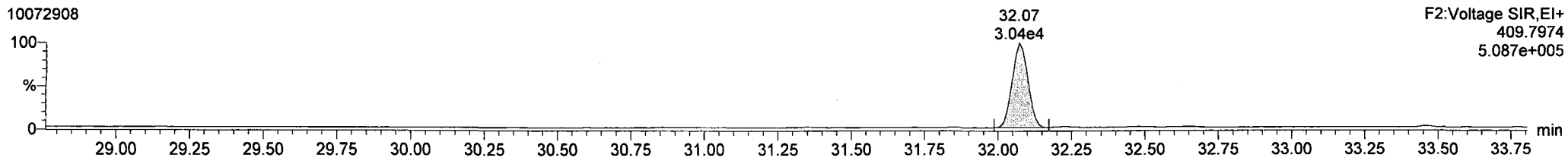

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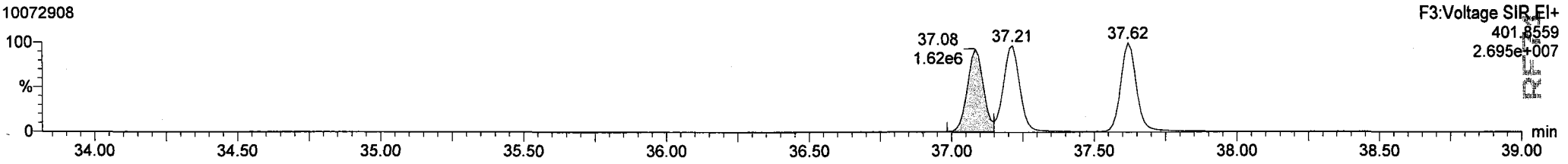
13C-123478-HxCDD



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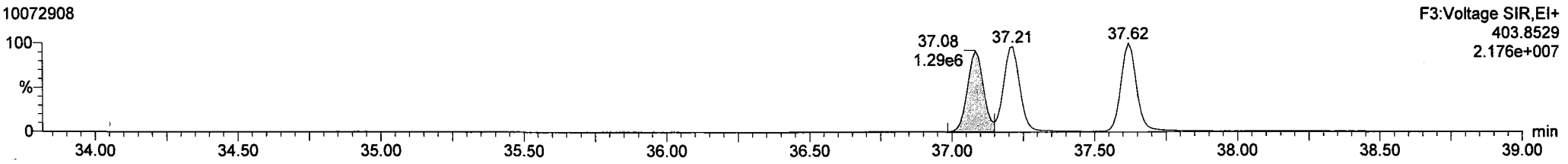
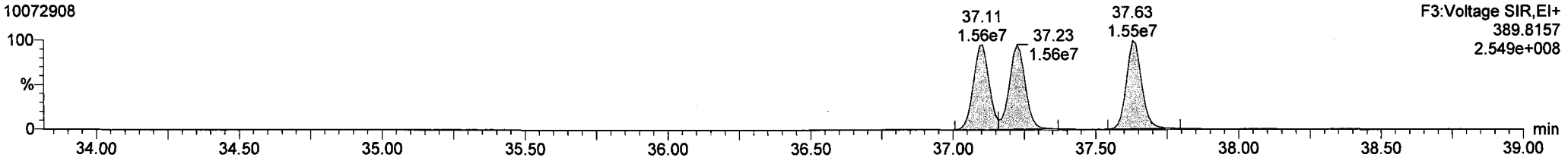
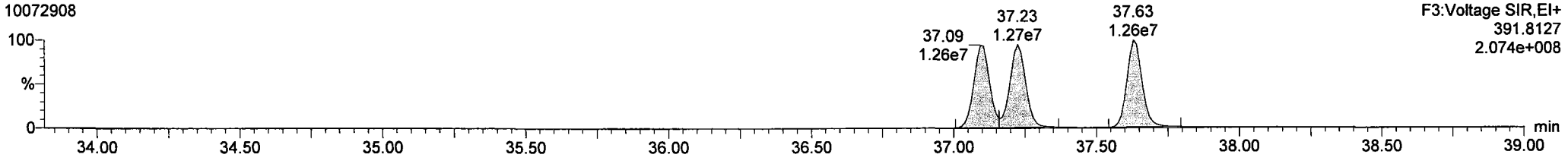


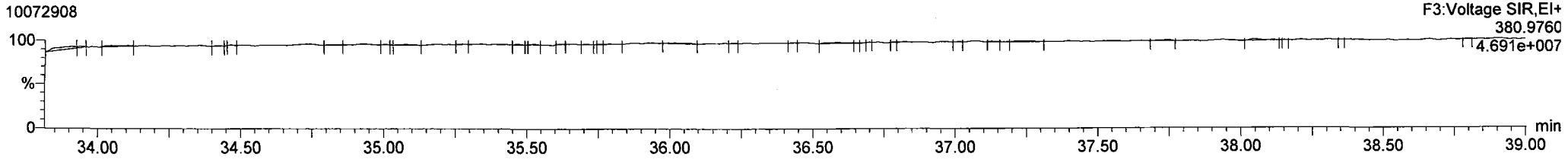
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



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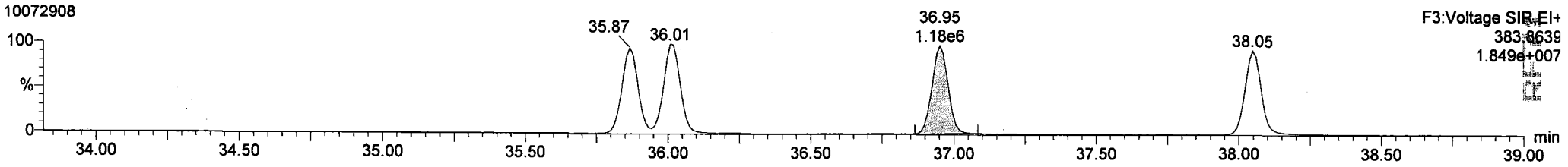
13C-234678-HxCDF



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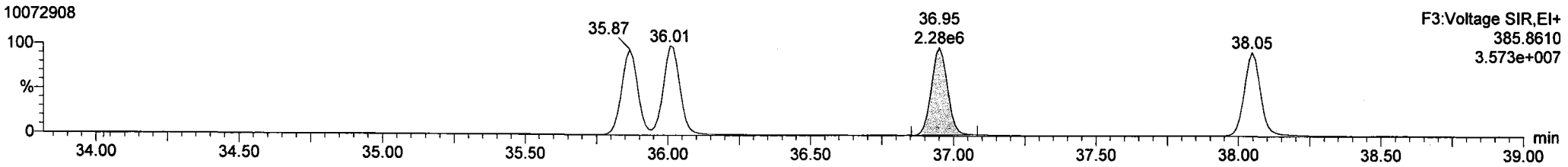
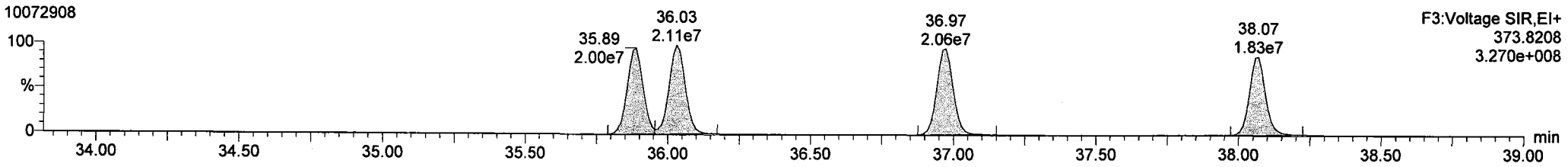
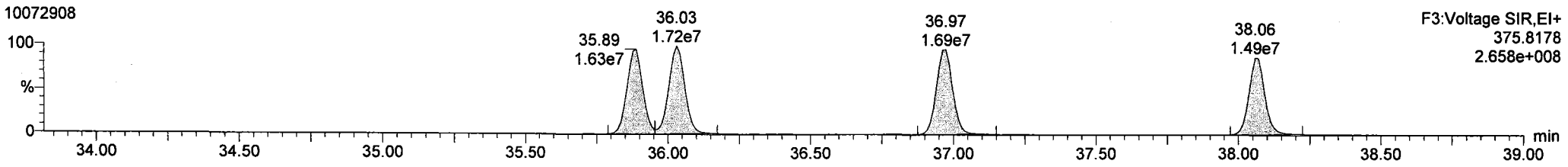


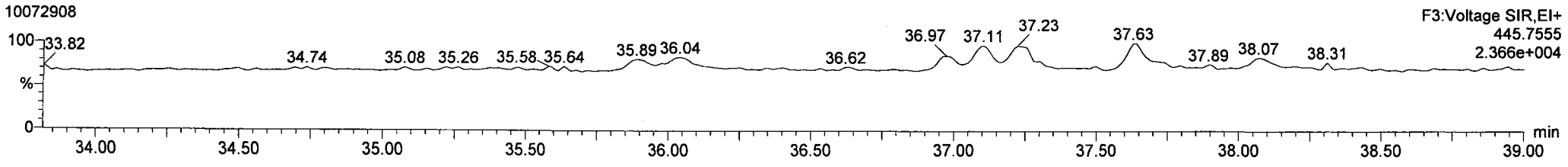
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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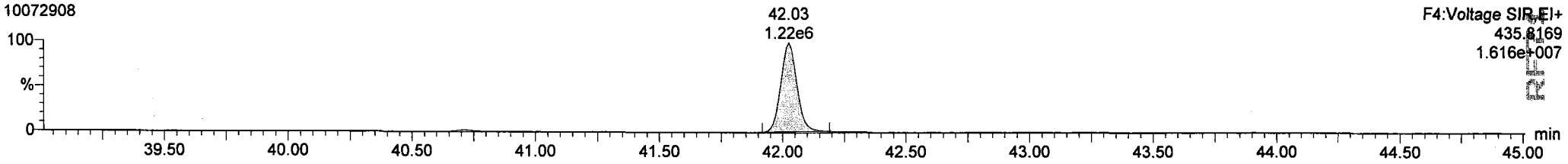
13C-1234678-HpCDD



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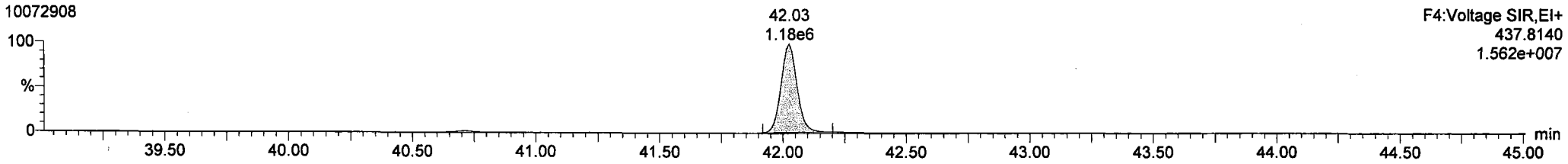
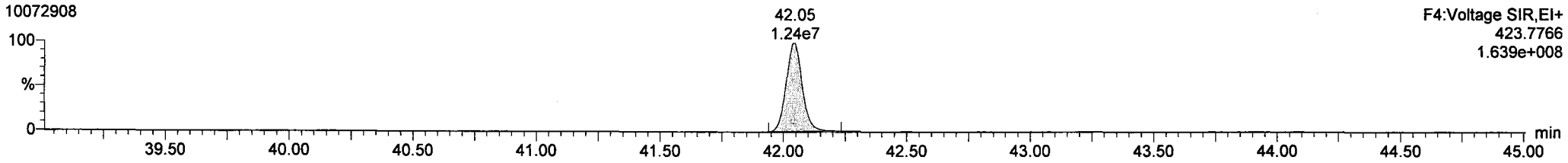
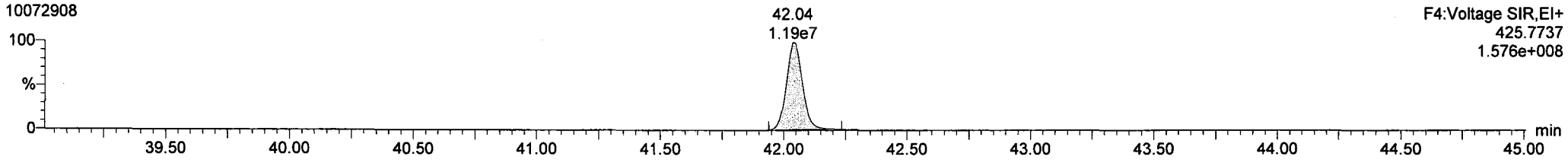


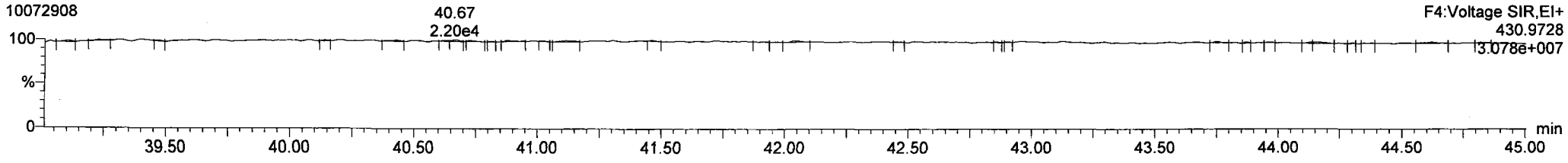
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



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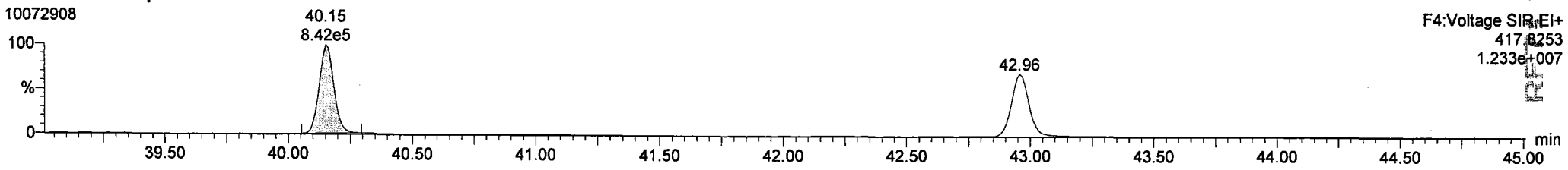
13C-1234678-HpCDF



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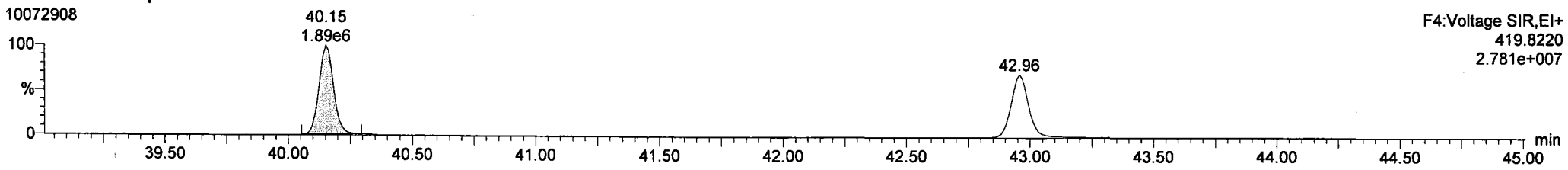
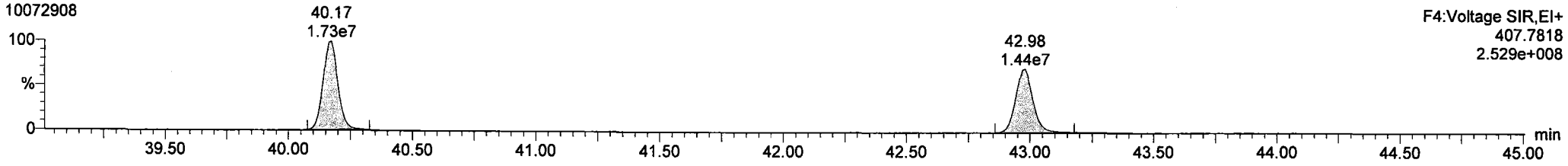
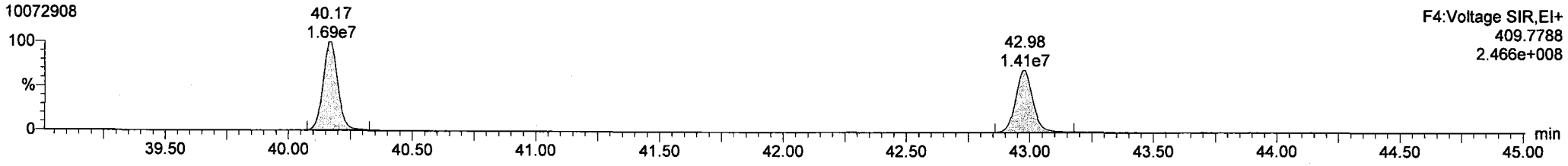


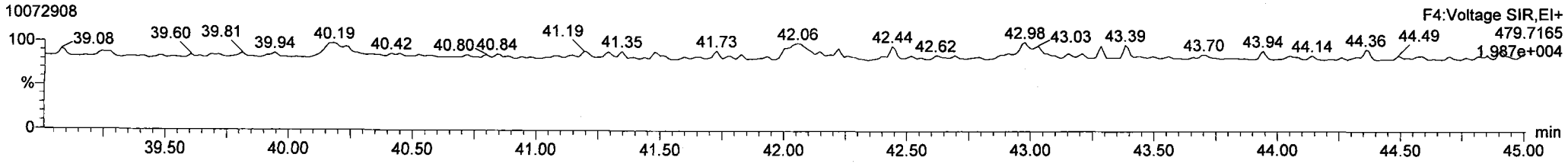
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



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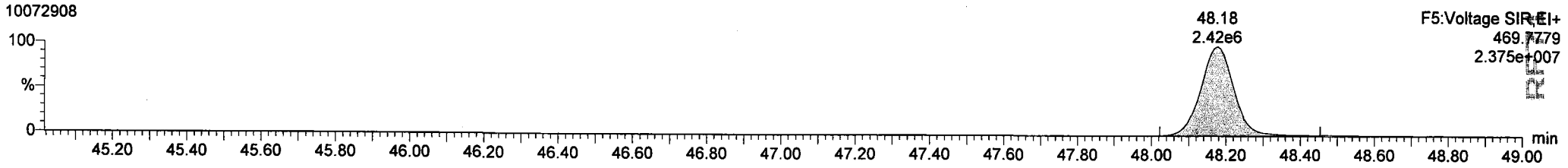
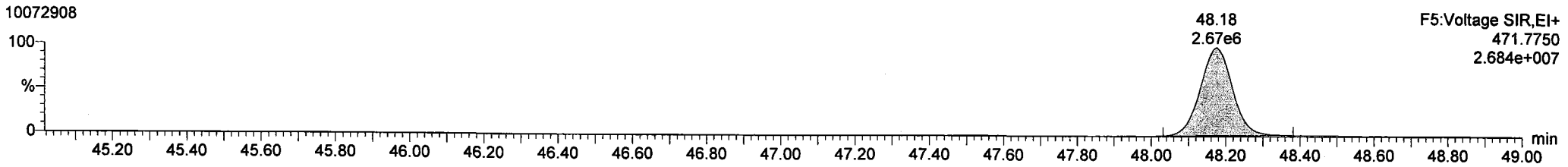
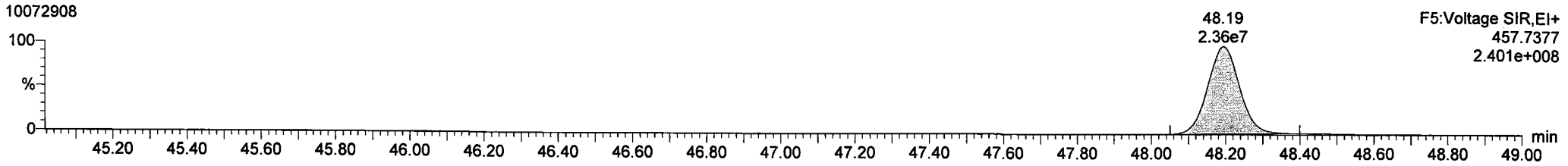
13C-OCDD



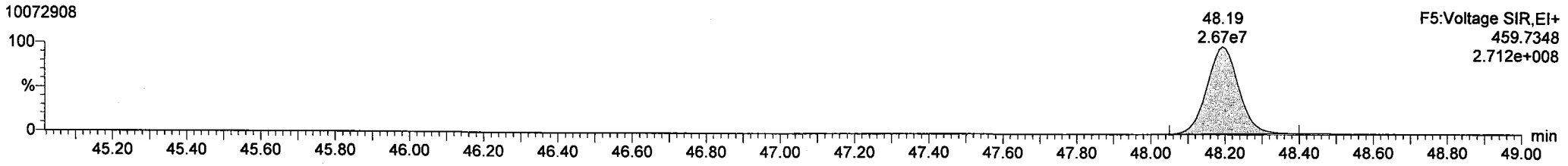
13C-OCDD



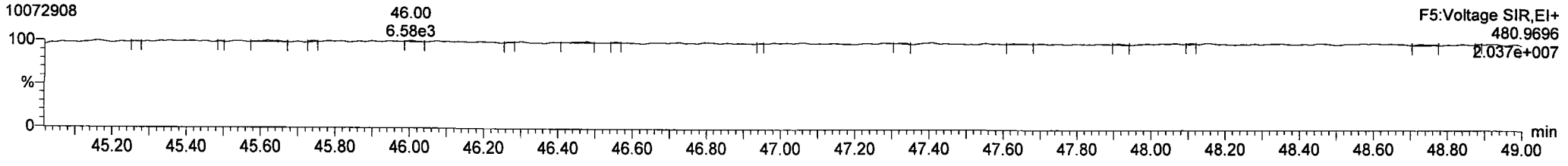
OCDD



OCDD



FUNCTION5 PFK



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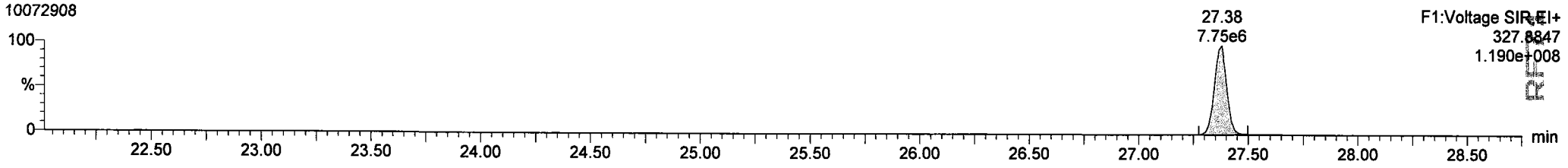
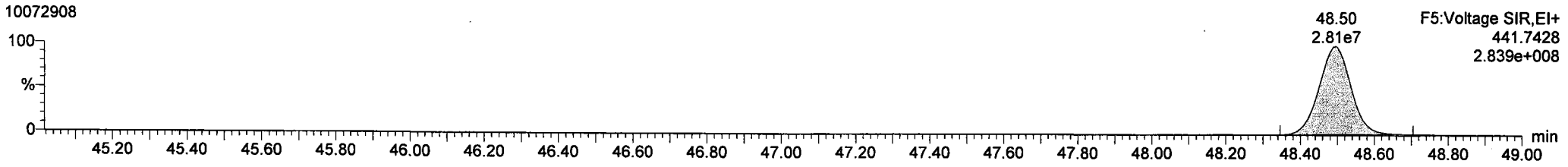
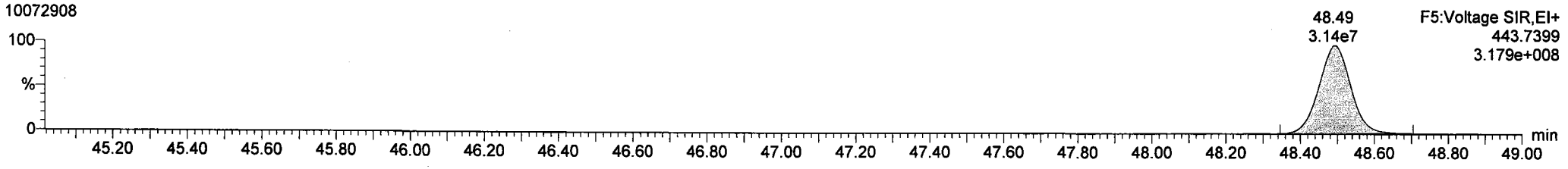
37CL-2378-TCDD



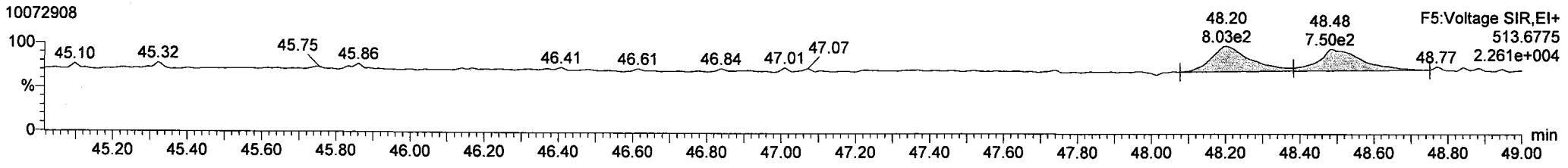
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Tuesday, August 03, 2010 15:01:56 Pacific Daylight Time
Printed: Tuesday, August 03, 2010 15:02:54 Pacific Daylight Time

I4999

8.3.10

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 29 Jul 2010 13:05:54
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 03 Aug 2010 09:39:22

Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Lab: , Conditions: METHOD 8290A, User: PK

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
1	1	2378-TCDF	303.9016	26.75	26.72	535979	0.871		10.81	bb		0.74	0.77	NO	10.81
2	2	12378-PeCDF	339.8597	30.89	30.87	2148124	0.890		52.87	bd		1.54	1.55	NO	52.87
3	3	23478-PeCDF	339.8597	32.23	32.21	2148974	0.913		52.90	bb		1.52	1.55	NO	52.90
4	4	123478-HxCDF	373.8208	35.89	35.88	1933940	1.087		51.88	bd		1.22	1.24	NO	51.88
5	5	234678-HxCDF	373.8208	36.99	36.96	1972986	1.066		51.75	bb		1.23	1.24	NO	51.75
6	6	123678-HxCDF	373.8208	36.04	36.02	2047240	1.043		53.27	db		1.23	1.24	NO	53.27
7	7	123789-HxCDF	373.8208	38.07	38.06	1744733	1.001		54.59	bd		1.20	1.24	NO	54.59
8	8	1234678-HpCDF	407.7818	40.18	40.16	1806573	1.234		51.45	bd		0.99	1.05	NO	51.45
9	9	1234789-HpCDF	407.7818	42.98	42.97	1486647	1.233		53.19	bd		1.02	1.05	NO	53.19
10	10	OCDF	441.7428	48.49	48.47	2862754	1.128		104.26	bd		0.90	0.89	NO	104.26
11	11	2378-TCDD	319.8965	27.38	27.36	408850	1.041		9.61	bb		0.76	0.77	NO	9.61
12	12	12378-PeCDD	355.8546	32.48	32.46	1550098	0.969		52.33	bb		1.52	1.55	NO	52.33
13	13	123478-HxCDD	389.8157	37.11	37.09	1467469	0.967		51.41	bd		1.22	1.24	NO	51.41
14	14	123678-HxCDD	389.8157	37.24	37.22	1499480	0.893		53.53	db		1.21	1.24	NO	53.53
15	15	123789-HxCDD	389.8157	37.64	37.66	1492496	0.909		53.94	bb		1.26	1.24	NO	53.94
16	16	1234678-HpCDD	423.7766	42.05	42.03	1273006	0.982		52.66	bb		1.04	1.05	NO	52.66
17	17	OCDD	457.7377	48.19	48.18	2519109	0.985		105.05	bd		0.88	0.89	NO	105.05
18	18	13C-2378-TCDF	315.9419	26.72	26.72	5691019	1.608		97.77	bb	97.8	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.87	30.87	4566046	1.281		98.52	bd	98.5	1.53	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.21	4449042	1.261		97.48	bb	97.5	1.56	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.88	35.88	3431062	1.131		100.56	bd	100.6	0.52	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.02	36.03	3684617	1.260		96.91	db	96.9	0.52	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.96	36.96	3577649	1.193		99.39	bb	99.4	0.52	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.06	38.06	3193797	1.097		96.50	bb	96.5	0.52	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.16	40.16	2844349	0.934		100.91	bd	100.9	0.45	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.97	42.97	2266039	0.760		98.80	bb	98.8	0.45	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.54	26.54	3619249	1.000		100.00	bb	100.0	0.79	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.36	27.36	4084941	1.041		108.45	bb	108.4	0.78	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.46	32.46	3056245	0.847		99.71	bb	99.7	1.57	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.09	37.09	2953392	0.965		101.38	bd	101.4	1.25	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.22	37.23	3136267	1.072		96.98	db	97.0	1.24	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.04	2461605	0.806		101.20	bd	101.2	1.03	1.05	NO	
33	33	13C-OCDD	469.7779	48.18	48.18	4868001	0.814		198.05	bb	99.0	0.89	0.89	NO	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Tuesday, August 03, 2010 15:01:56 Pacific Daylight Time
Printed: Tuesday, August 03, 2010 15:02:54 Pacific Daylight Time

Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Lab: , Conditions: METHOD 8290A, User: PK

	# Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
34	34 13C-123789-HxCDD	401.8559	37.63	37.62	3017798	1.000		100.00	bb	100.0	1.26	1.24	NO	
35	35 Total-tetrafurans	303.9016		0.00		0.871		29.04						
36	36 Total-penta1	339.8597		28.20										
37	37 Total-pentafurans	339.8597		0.00		0.901		150.28						
38	38 Total-hexafurans	373.8208		0.00		1.049		268.85						
39	39 Total-heptafurans	407.7818		0.00		1.234		104.64						
40	40 Total-Furans	303.9016		0.00		1.047		657.07						
41	41 Total-tetradioxins	319.8965		0.00		1.041		48.90						
42	42 Total-pentadioxins	355.8546		0.00		0.969		169.85						
43	43 Total-hexadioxins	389.8157		0.00		0.923		219.89						
44	44 Total-heptadioxins	423.7766		0.00		0.982		109.05						
45	45 Total-Dioxins	319.8965		0.00		0.964		652.74						
46	46 Total-TEQ	319.8965		0.00				1309.81						
47	47 37CL-2378-TCDD	327.8847	27.38	27.38	439410	1.166		10.41						
48	48 FUNCTION1 PFK	330.9792		0.00										
49	49 FUNCTION2 PFK	366.9792		0.00				0.00						
50	50 FUNCTION3 PFK	380.9760		0.00				0.00						
51	51 FUNCTION4 PFK	430.9728		0.00										
52	52 FUNCTION5 PFK	480.9696		0.00										
53	53 FUNCTION1 HXCDPE	375.8364		0.00										
54	54 FUNCTION1 HPCDPE	409.7974		0.00										
55	55 FUNCTION2 HPCDPE	409.7974		0.00				0.00						
56	56 FUNCTION3 OCDPE	445.7555		0.00										
57	57 FUNCTION4 NCDPE	479.7165		0.00										
58	58 FUNCTION5 DCDPE	513.6775		0.00										

Quantify Sample Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
Last Altered: Tuesday, August 03, 2010 15:01:56 Pacific Daylight Time
Printed: Tuesday, August 03, 2010 15:02:54 Pacific Daylight Time

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 29 Jul 2010 13:05:54
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 03 Aug 2010 09:39:22

Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

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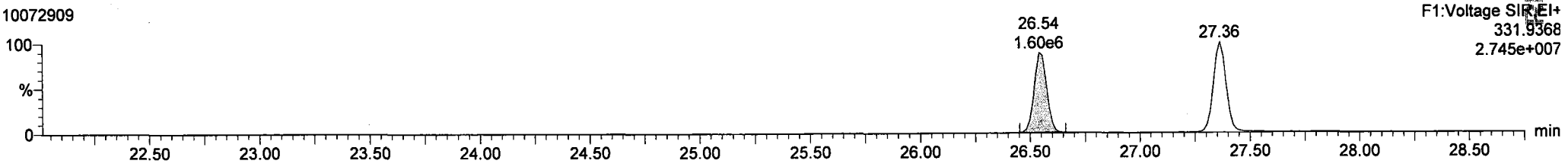
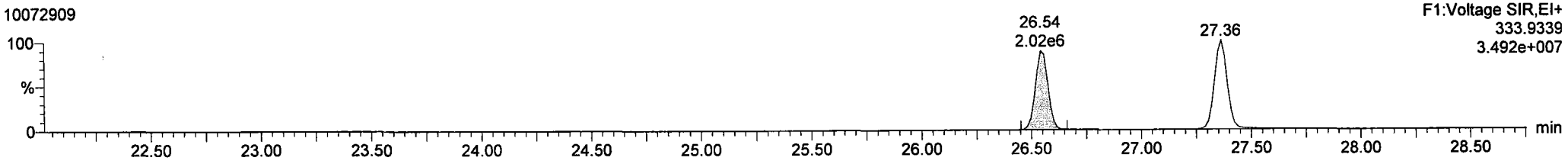


13C-1234-TCDD



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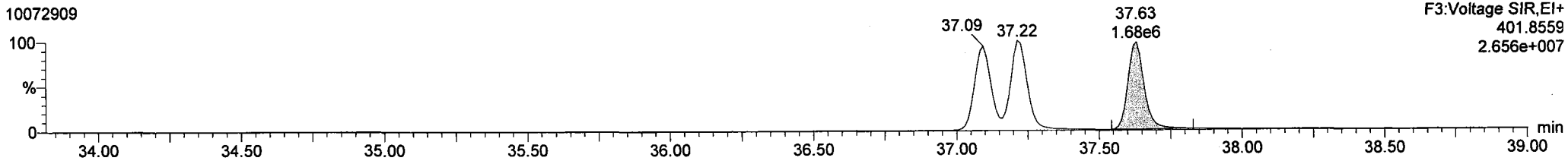

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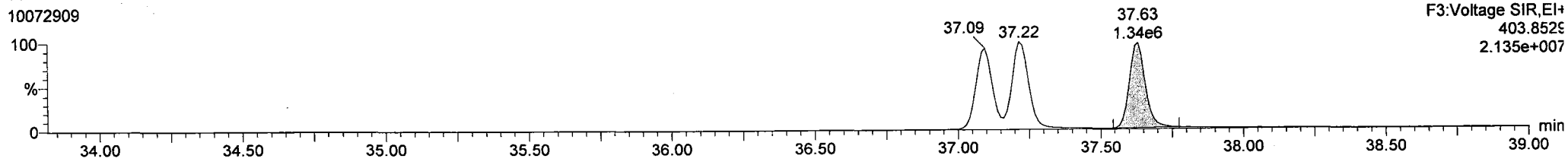

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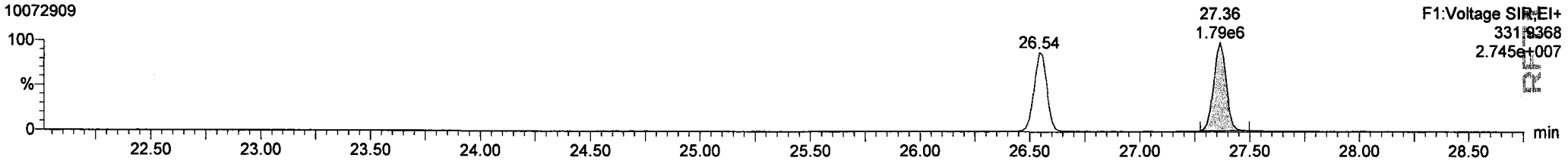
Printed: Tuesday, August 03, 2010 15:02:54 Pacific Daylight Time

Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

13C-2378-TCDD



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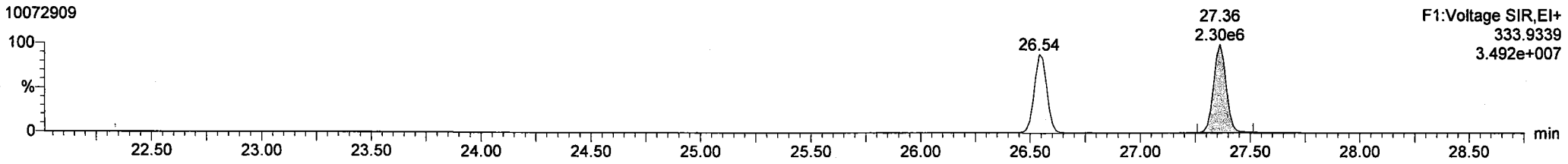
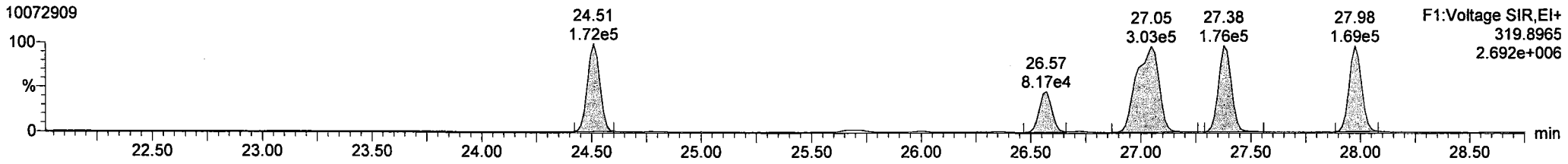
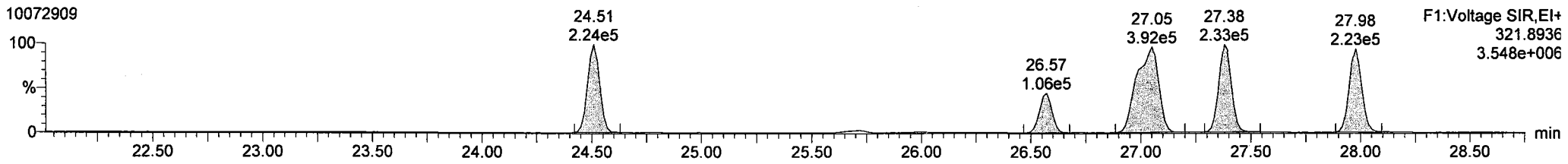


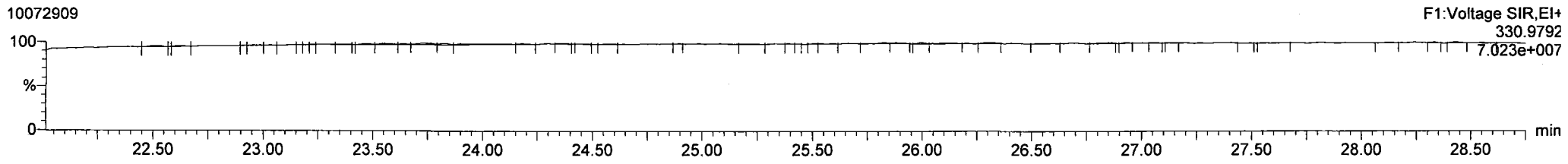
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



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Last Altered: Tuesday, August 03, 2010 15:01:56 Pacific Daylight Time
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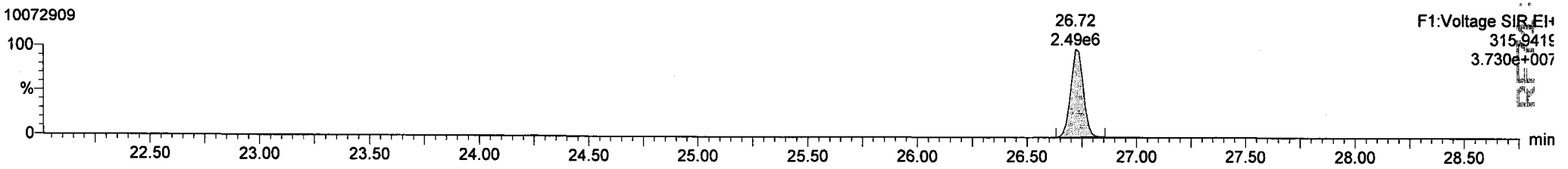
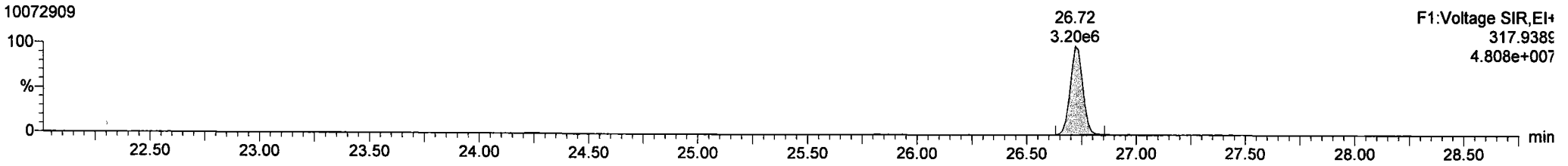
Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

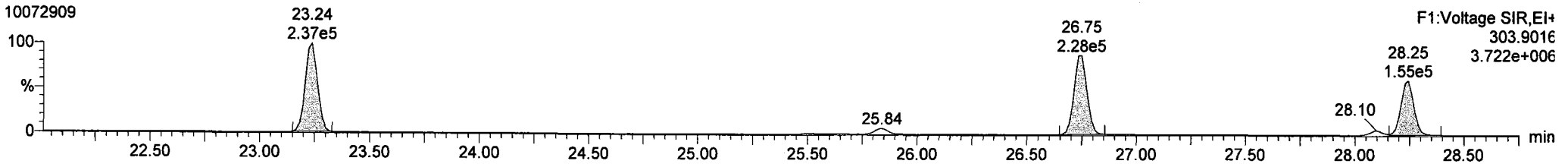
13C-2378-TCDF



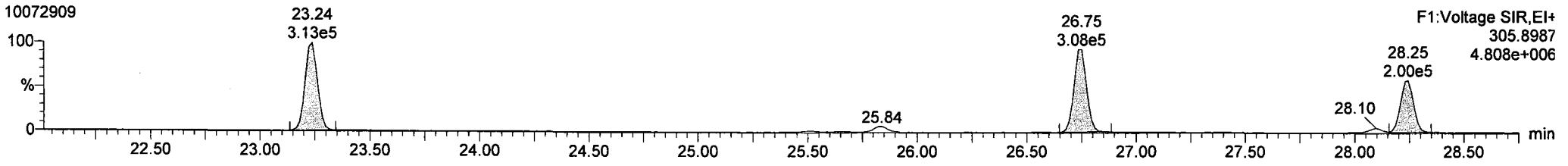
13C-2378-TCDF



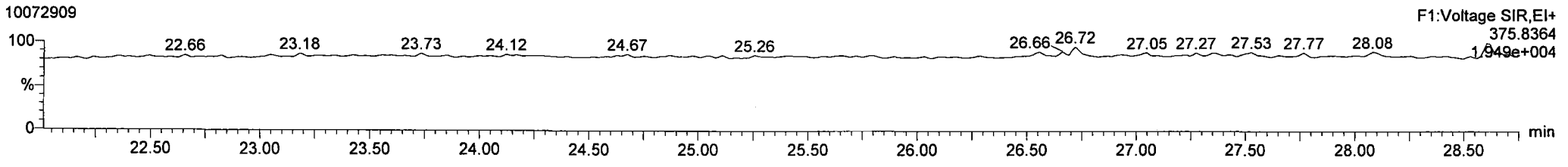
Total-tetrafurans



Total-tetrafurans

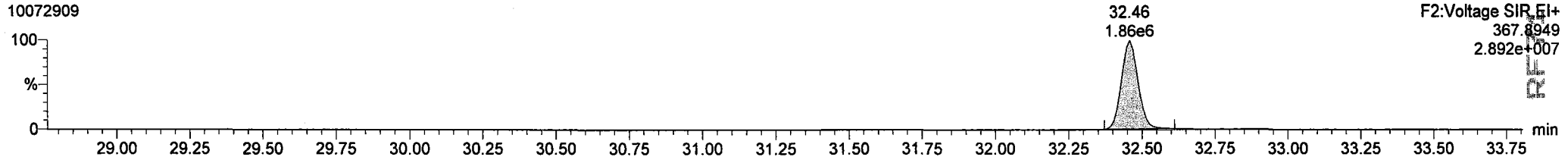


FUNCTION1 HXCDPE



Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

13C-12378-PeCDD



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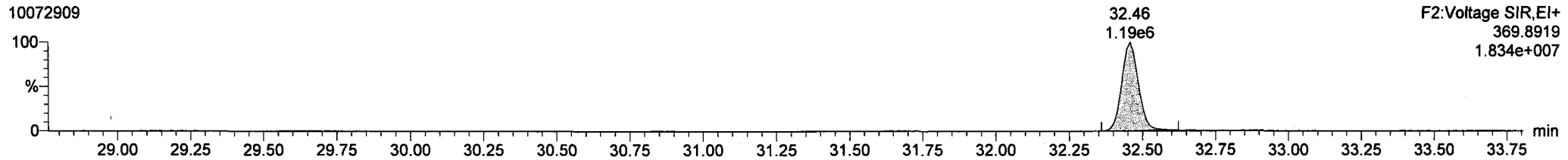
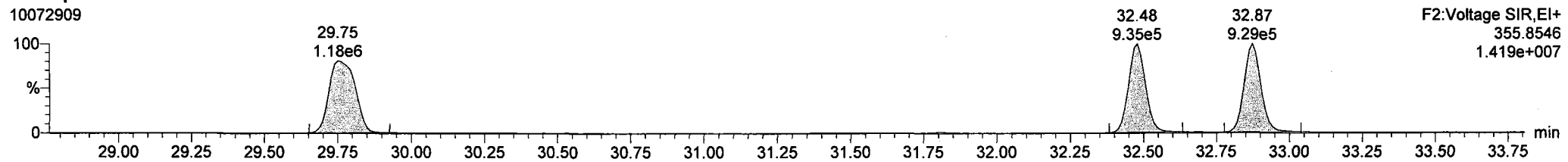
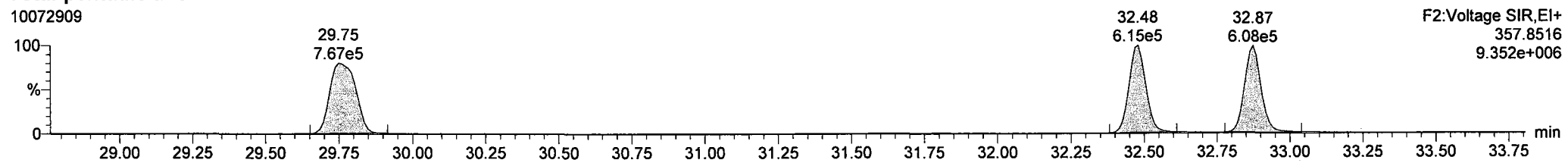


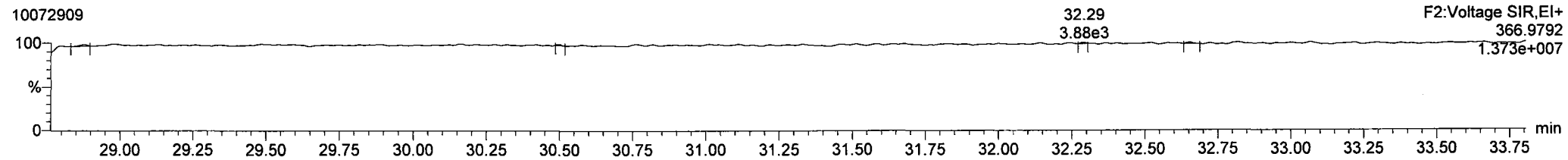
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



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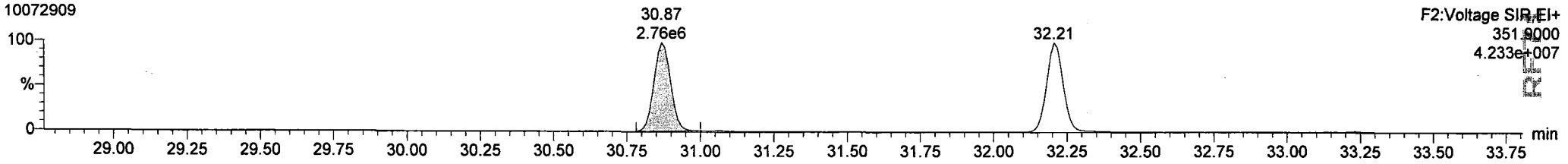
Last Altered: Tuesday, August 03, 2010 15:01:56 Pacific Daylight Time
Printed: Tuesday, August 03, 2010 15:02:54 Pacific Daylight Time

Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

13C-12378-PeCDF



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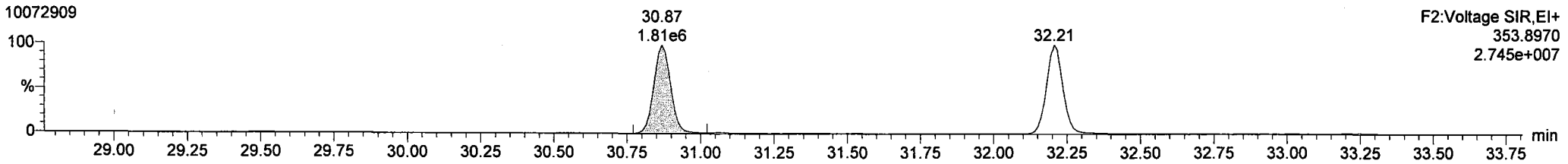
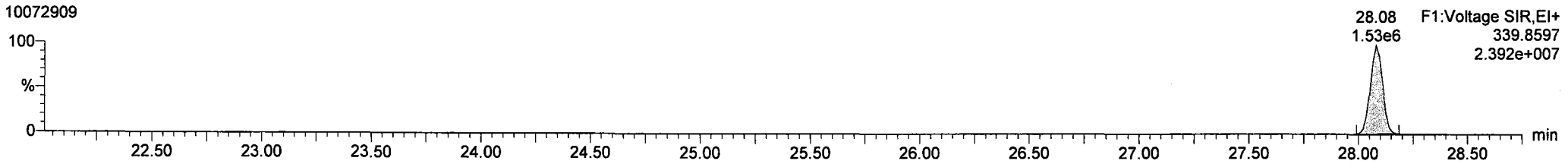
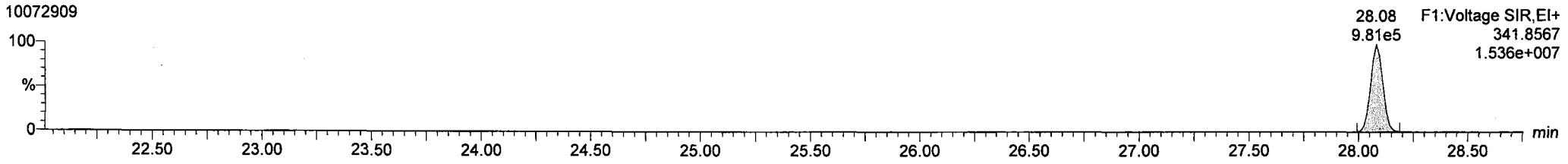


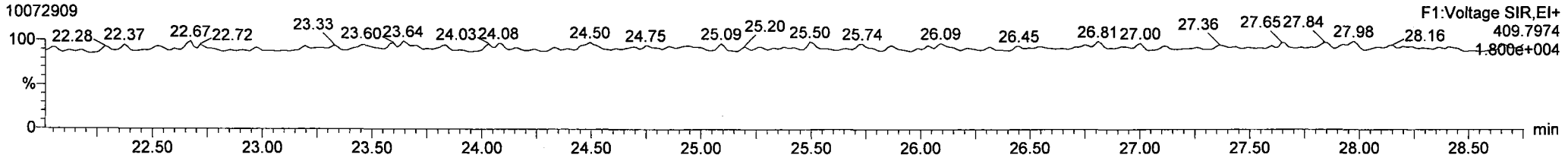
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



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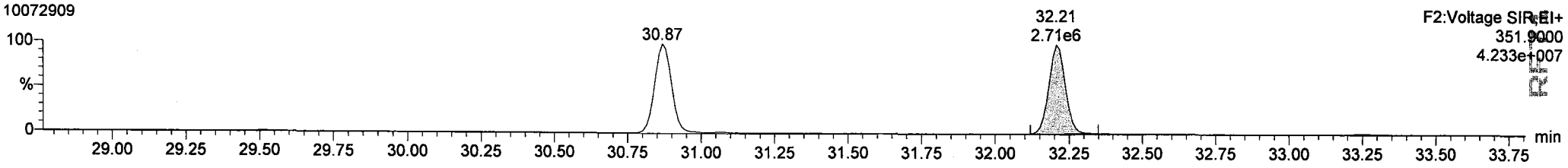
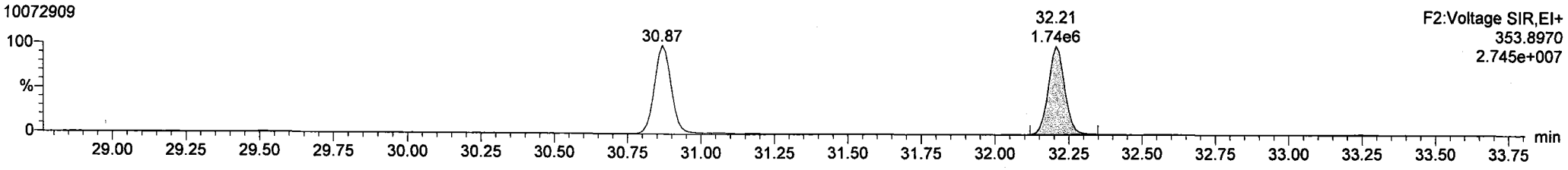
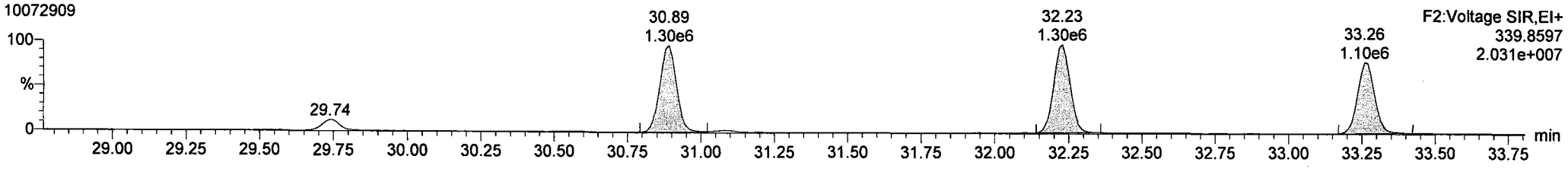
13C-23478-PeCDF



13C-23478-PeCDF



Total-pentafurans



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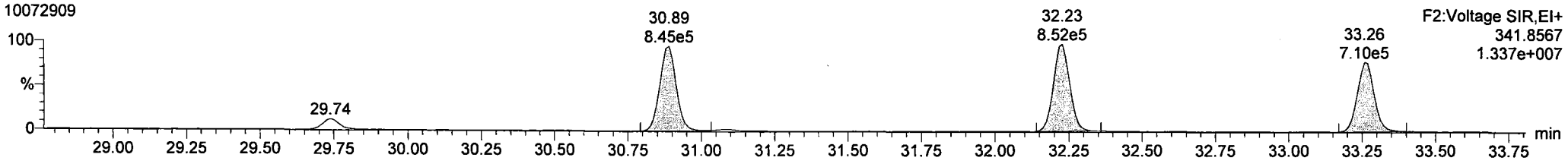
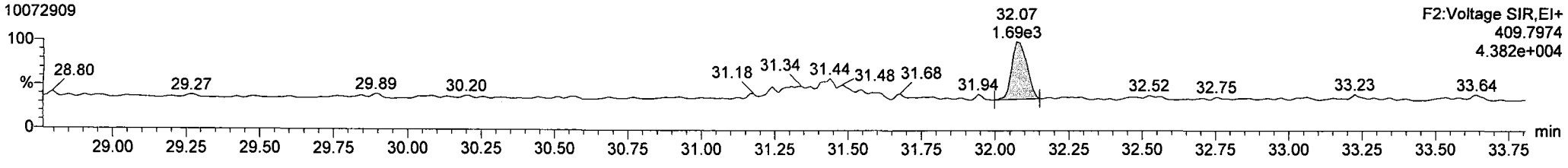


FUNCTION2 HPCDPE



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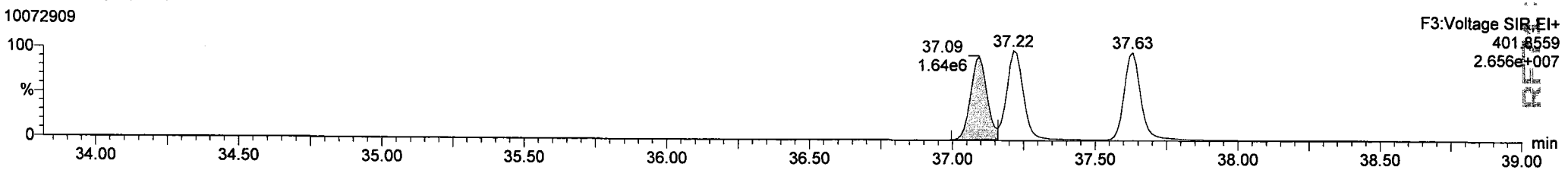
Printed: Tuesday, August 03, 2010 15:02:54 Pacific Daylight Time

Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

13C-123478-HxCDD



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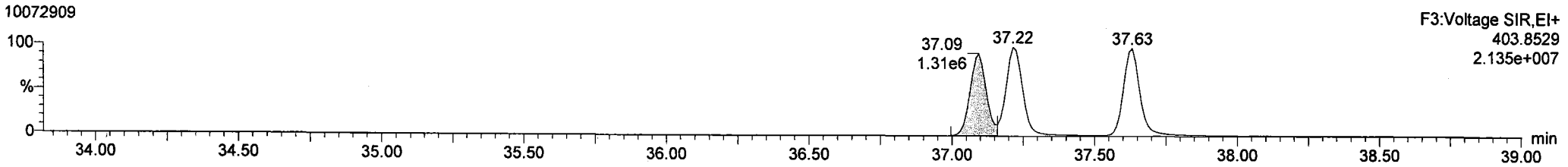
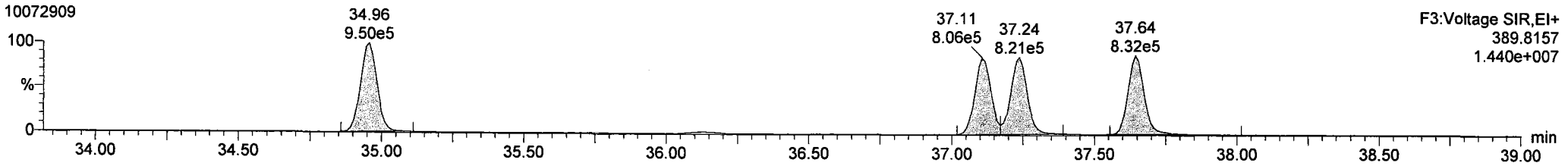
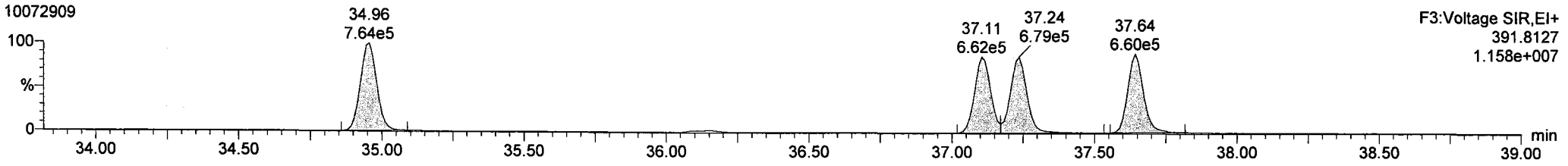


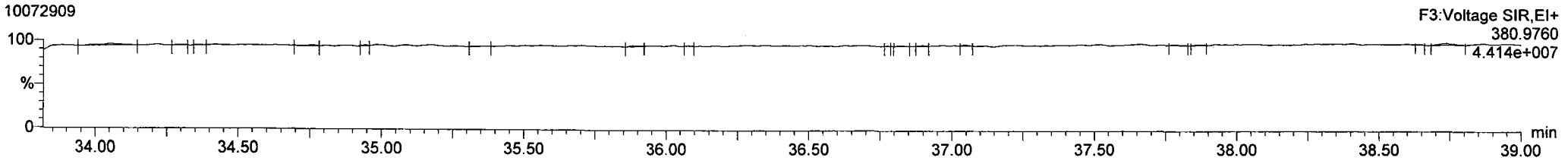
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



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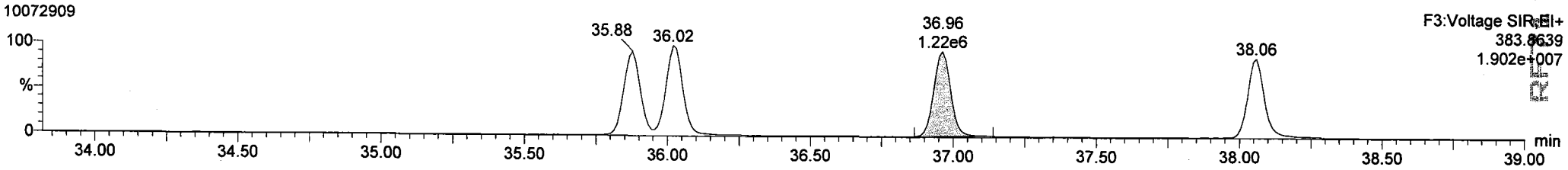
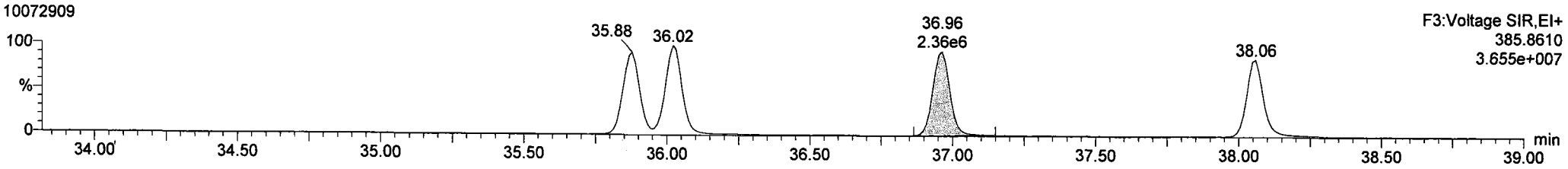
Printed: Tuesday, August 03, 2010 15:02:54 Pacific Daylight Time

Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

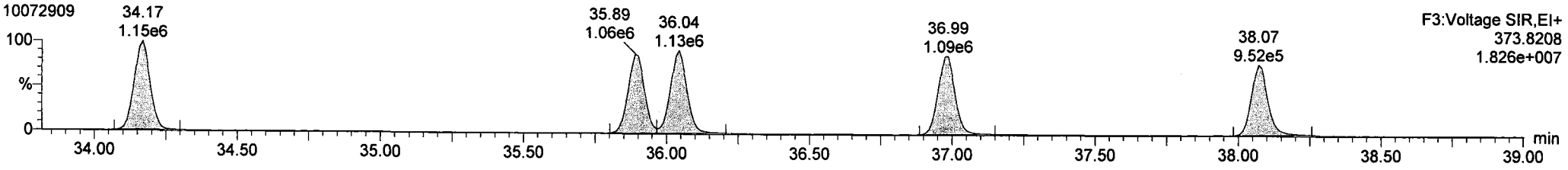
13C-234678-HxCDF



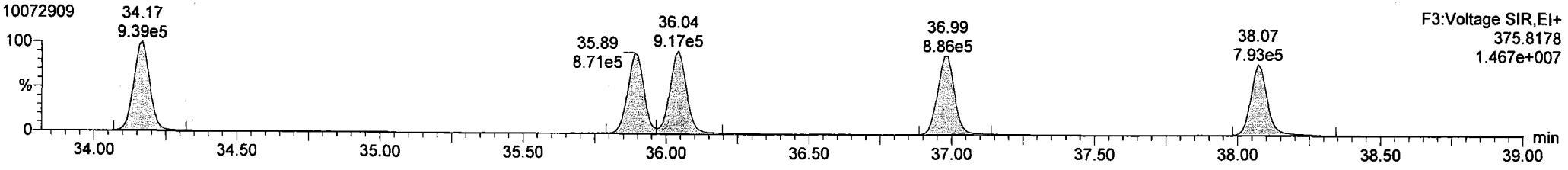
13C-234678-HxCDF



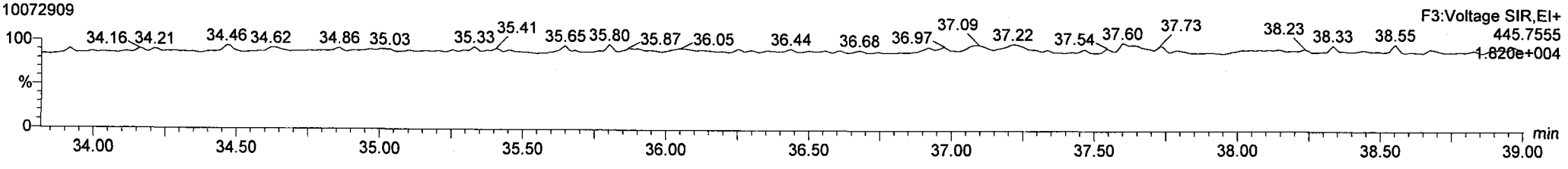
Total-hexafurans



Total-hexafurans

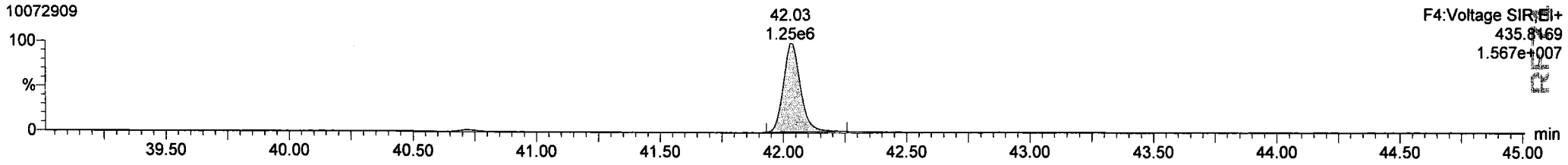


FUNCTION3 OCDPE



Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

13C-1234678-HpCDD



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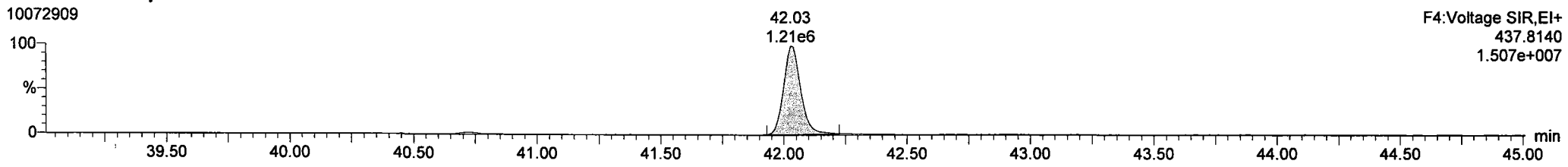
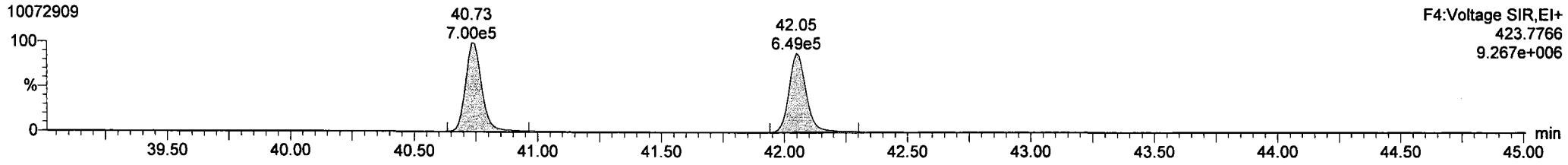


Total-heptadioxins



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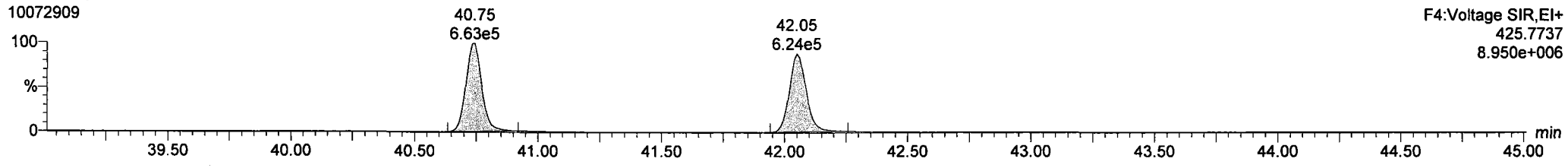
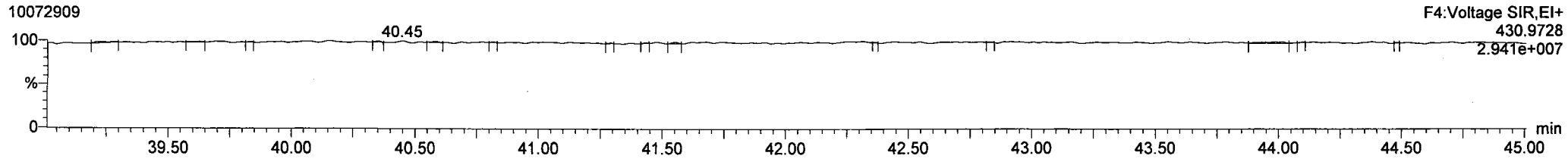
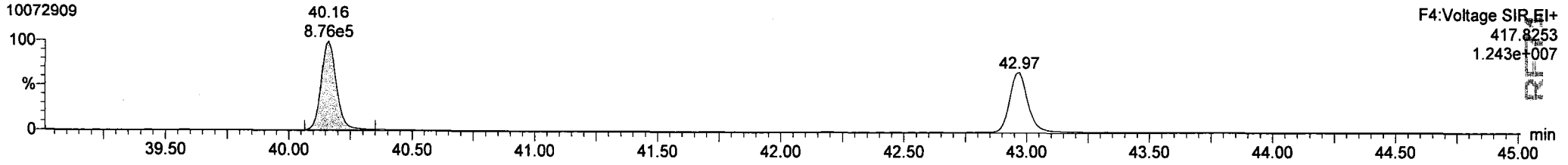


FUNCTION4 PFK



Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

13C-1234678-HpCDF



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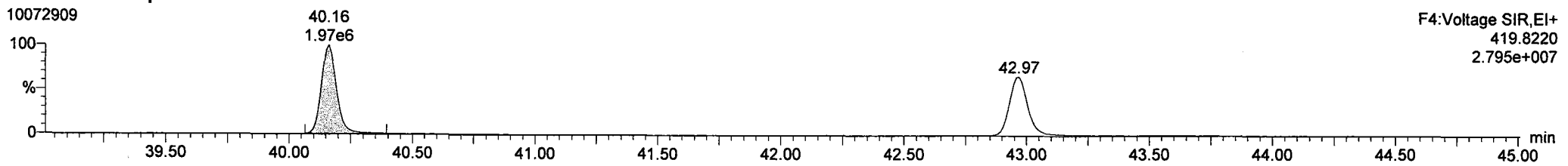
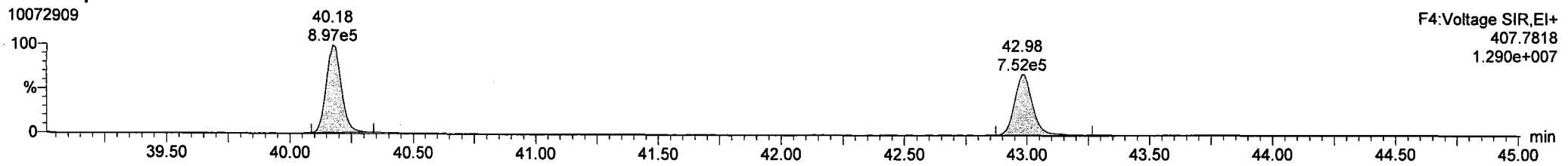


Total-heptafurans



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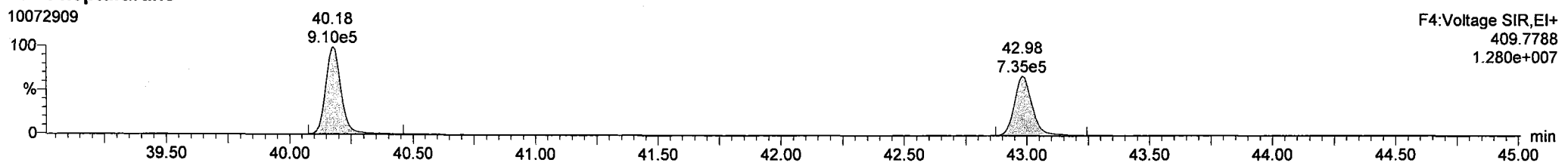
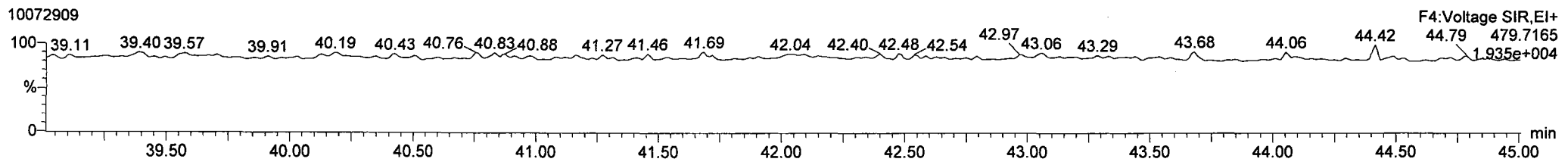


FUNCTION4 NCDPE



Dataset: C:\MassLynx\DIOXIN8290.PRO\100729ICAL.qld
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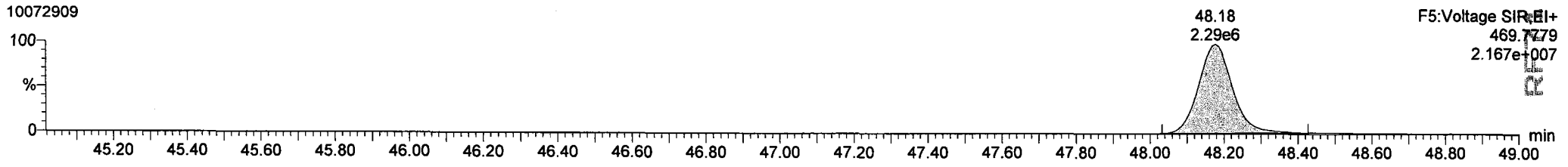
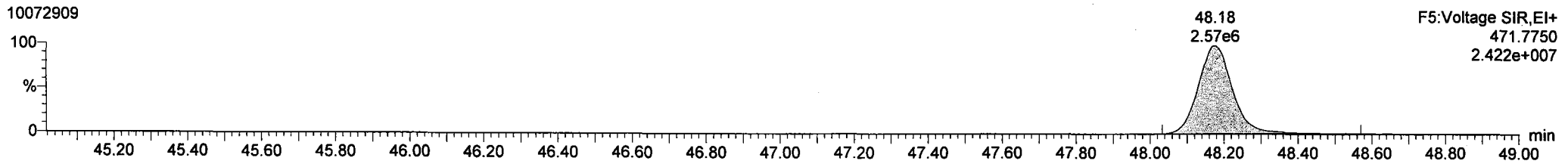
Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

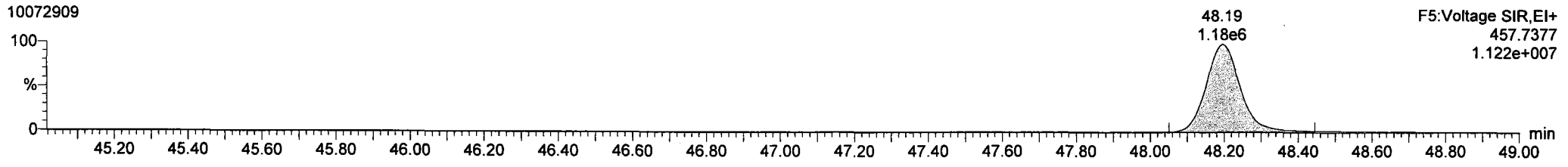
13C-OCDD



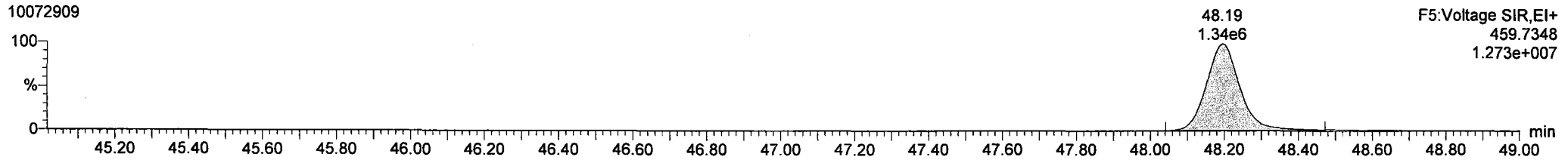
13C-OCDD



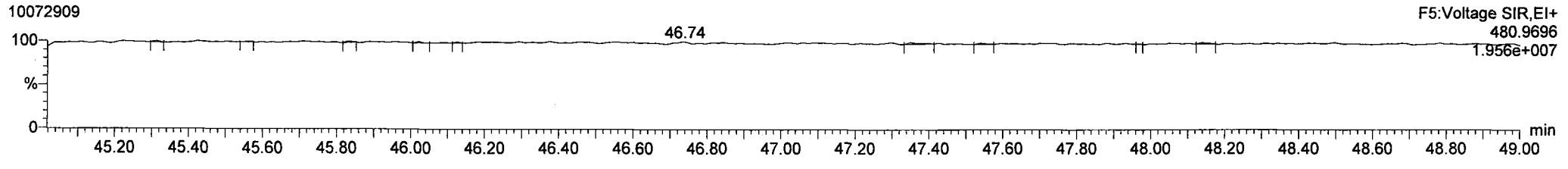
OCDD



OCDD



FUNCTION5 PFK



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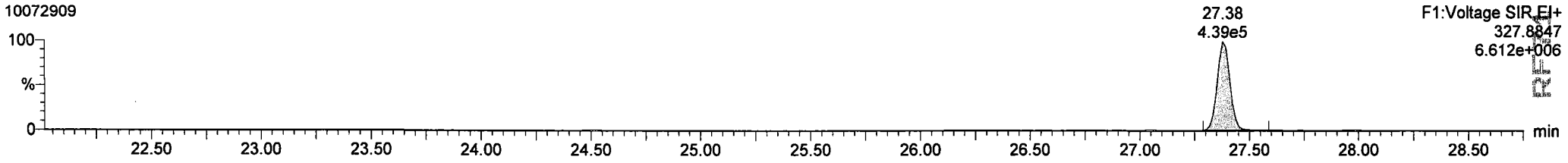
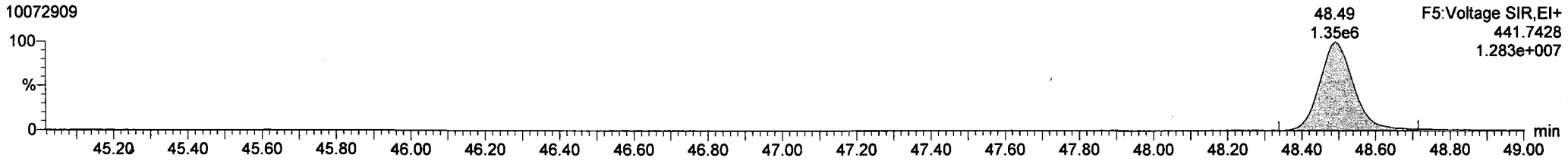
Name: 10072909, Date: 29-Jul-2010, Time: 17:03:43, ID: ICV, Description: , Lab: , User: PK

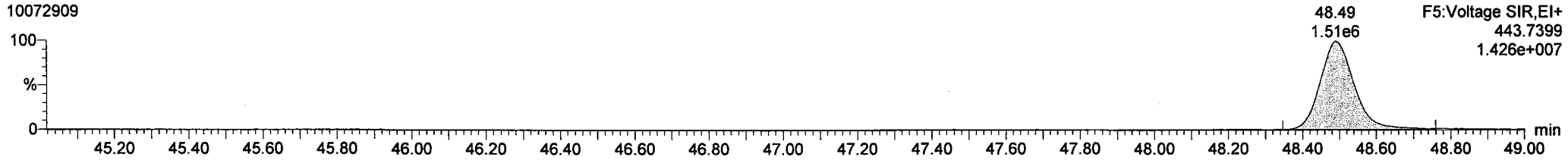
37CL-2378-TCDD



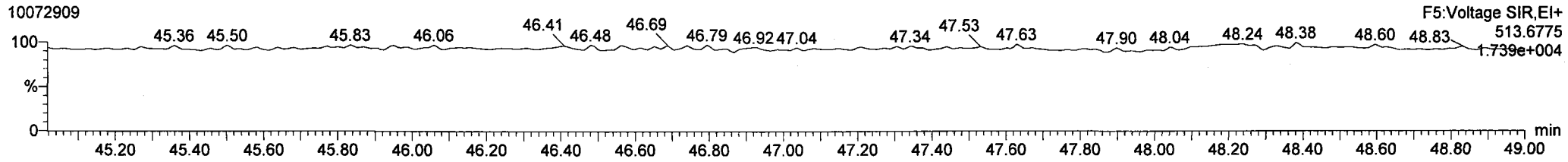
OCDF



OCDF



FUNCTION5 DCDPE



DIOXIN REPORTING

1) An estimated detection limit (EDL) will be calculated for each 2378-substituted Dioxin and Furan congener on an individual basis for each sample and method blank.

2) The EDL for a totals range shall be the highest EDL calculated for any of the constituent congeners within each homologue group.

3) We are not reporting J or E flags for the totals groups. Totals groups will be B flagged when any named constituent dioxin/furan has been B flagged.

4) All values between our calibrated curve low point (CRQL or RL) and the EDL that are reportable will be qualified with a J flag including the EMPC values.

5) The definitions for the additional dioxin flags are as follows.

   X= Polychlorinated Diphenyl ether interference.
   Y= EMPC
   Z=Matrix or PFK ion interference.

   J, E, B, D, S, U flags are used as normal for Organic data reporting.

Dioxin Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RF71

Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.:GC=CN10921030, MS=P764

Date: 8·5·10 Analysis: Dioxin Analyst: VB

GC Program: 8290B Column No: 955884 Column Type: RTX-Dioxin2

Instrument Tune (IPR): 10K8290B 1,2,3,4,5 Detector Voltage: 350

Resolution Check Files: 11:31/16:33/21:10 Curve Date: 7·29·10

IS/SS	Ical/Ccal	LCS/ICV
I5345	I5143	
	1729-2	

Compound name: 13C-1234-TCDD

#	Acq Date	Acq Time	Name	ID	Pre	RT	IS AREA	Comments
1	05-Aug-10	11:46:23	10080502	CS3	26.5	26.5	2996853	
2	05-Aug-10	12:58:44	10080503	1729-2	26.5	26.6	39304	
3	05-Aug-10	13:49:12	10080504	BLANK	26.5			
1	05-Aug-10	14:43:35	10080505	RF71MB	26.5	26.6	3109649	
2	05-Aug-10	15:34:04	10080506	RF71OPR	26.5	26.6	2956396	
3	05-Aug-10	16:46:26	10080507	RF71A	26.5	26.6	3091363	
4	05-Aug-10	17:36:53	10080508	SPEMDL1	26.5	26.6	3466307	
5	05-Aug-10	18:27:56	10080509	SPEMDL2	26.5	26.6	2925150	
6	05-Aug-10	19:19:25	10080510	RD64MB	26.5	26.5	2495143	
7	05-Aug-10	20:10:39	10080511	CS3	26.5	26.5	3505524	

VB 8·7·10

Maintenance / Comments

NONE

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 10086502

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

HR-GC/MS Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: Anchor QEA

ARI SOP: **806S** (Dioxins)

Parameter(s): Dioxins - 1613

Instrument: **AutoSpec01**

Curve Date: 7.29.10 Analysis Start Date: 8.5.10

Internal Standard Meets Criteria?	(YES) / NO	Method Blank in Control?	(YES) / NO
Extraction Std Recovery in Control?	(YES) / NO	IPR / (OPR) Recovery in Control?	(1) (YES) / NO
ICal acceptable?	(YES) / NO	CCal acceptable?	(YES) / NO
Manual Integrations for ICal?	YES / (NO)	Manual Integrations for Samples?	(Yes) / NO
Special Analysis Criteria Met?	(YES) / NO / NA		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

(1) Recovery for 1234678-HpCDF @ 192% exceeds 1613 limit. All other recoveries meet method Limits - No action taken.

- Sample showed E values for OCDD and 1234678-HpCDD - No Action taken

- OCDD in method blank @ .32 pg (5 values) - B flagged in sample.

Additional Details on Reverse: Yes / No

Analyst: VB **Date:** 8.10.10

Reviewer: [signature] **Date:** 8/12/10

Analytical Resources, Incorporated
Analytical Chemists and Consultants

HR-GC/MS Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: Anchor QEA

ARI SOP: **806S** (Dioxins)

Parameter(s): _____

Instrument: **AutoSpec01**

Curve Date: _____ Analysis Start Date: _____

Internal Standard Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
Extraction Std Recovery in Control?	YES / NO	IPR / OPR Recovery in Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes /NO

Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

manual Ints° MB - OCDD

closing CCCD - tetradioxins

Additional Details on Reverse: Yes / No

Analyst: VB **Date:** 8.10.10

Reviewer: _____ **Date:** 8/12/10

Analytical Resources, Incorporated
Analytical Chemists and Consultants

HR-GC/MS Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: _____

ARI SOP: **806S** (Dioxins)

Parameter(s): _____

Instrument: **AutoSpec01**

Curve Date: _____ Analysis Start Date: _____

Internal Standard Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
Extraction Std Recovery in Control?	YES / NO	IPR / OPR Recovery in Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes /NO
Special Analysis Criteria Met?	YES / NO / NA		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Ranges from open CCAL

TCDF	23.24 - 28.23
TCDD	24.51 - 27.98
PeCDF	28.08 - 33.26
PeCDD	29.75 - 32.86
HxCDF	34.16 - 38.06
HxCDD	34.95 - 37.63
HpCDF	40.16 - 42.97
HpCDD	40.73 - 42.04

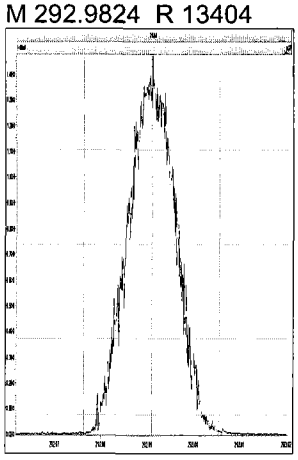
Additional Details on Reverse: Yes / No

Analyst: VD **Date:** 8.10.10

Reviewer: B **Date:** 8/12/10

Printed: Thursday, August 05, 2010 11:31:38 Pacific Daylight Time

M 292.9824 R 13404



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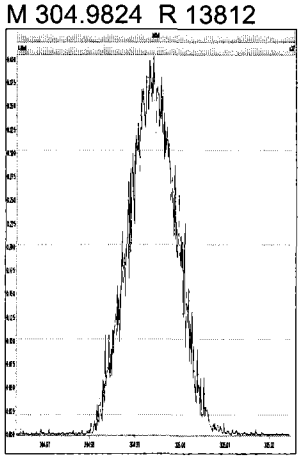

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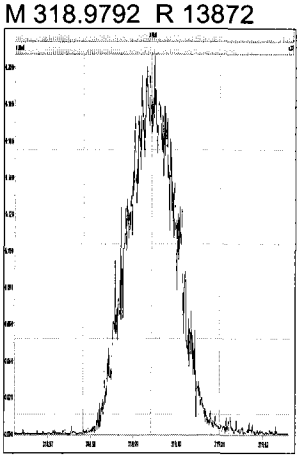

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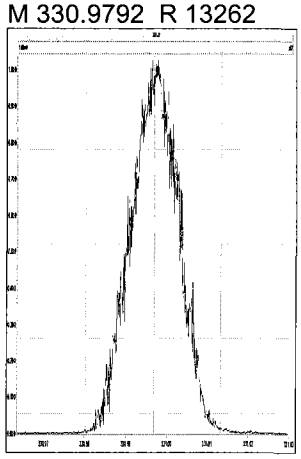

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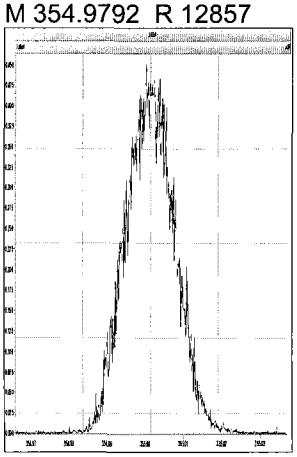

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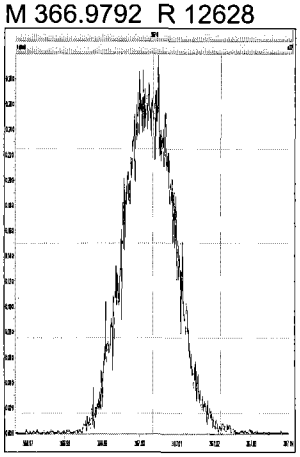

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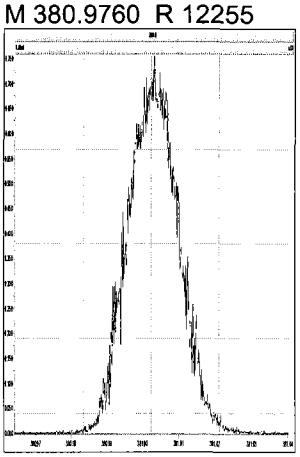

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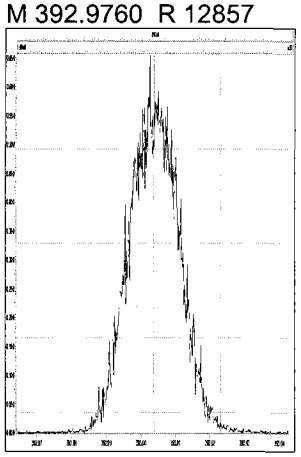

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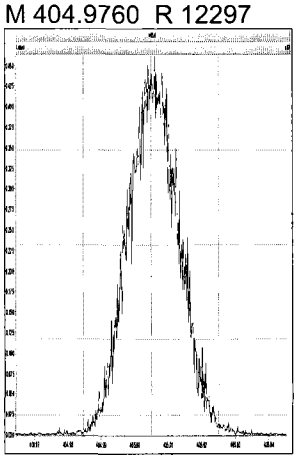

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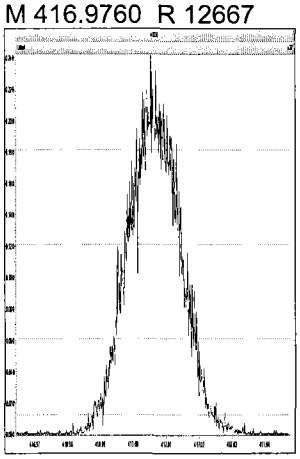

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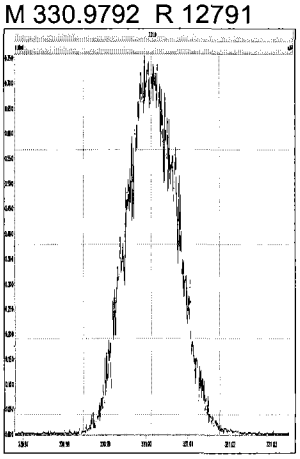

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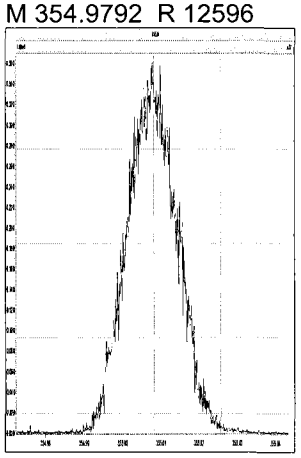

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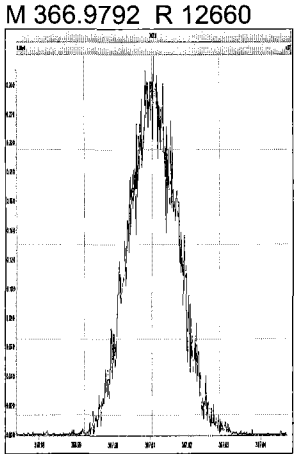

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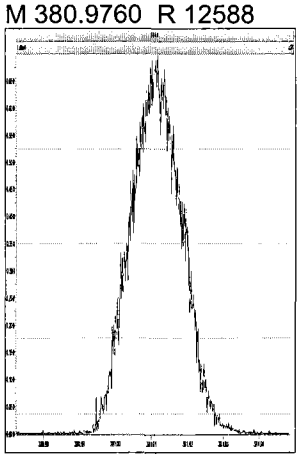

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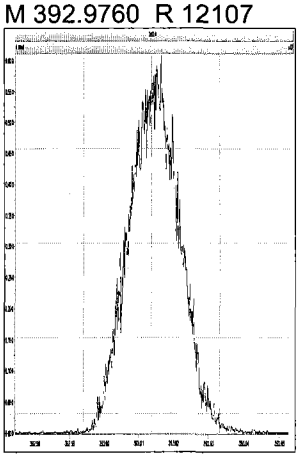

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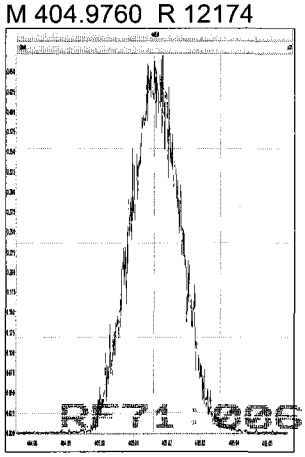

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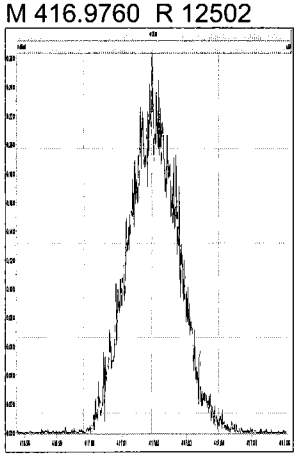

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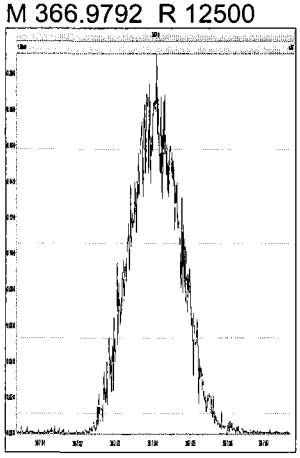

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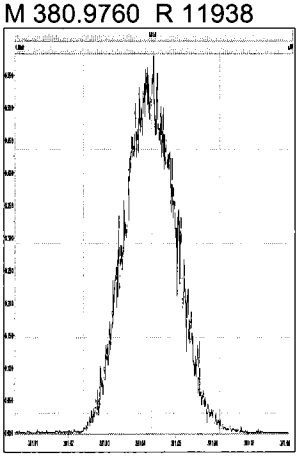

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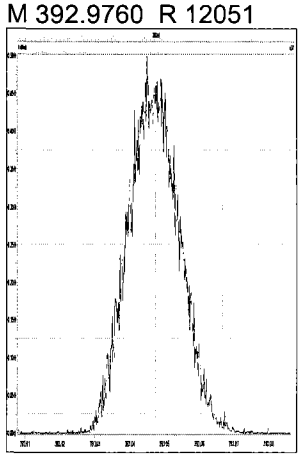

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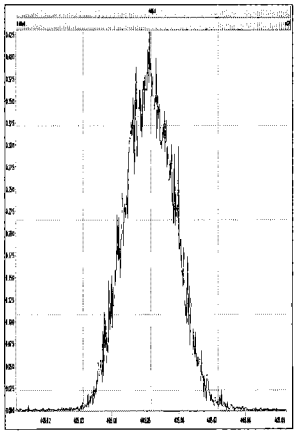

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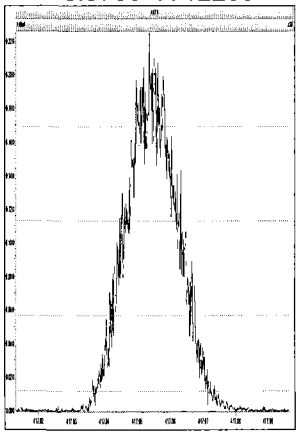

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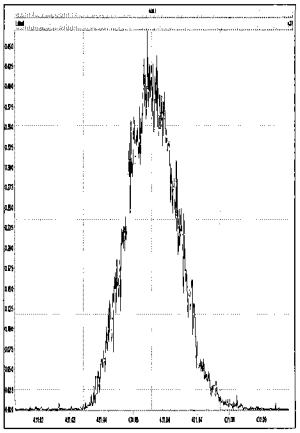

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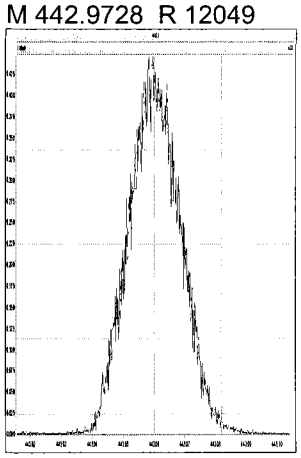

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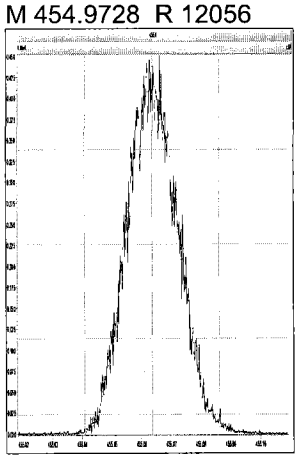

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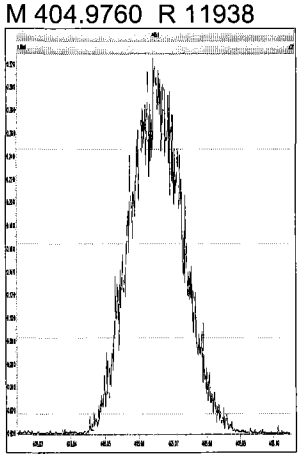

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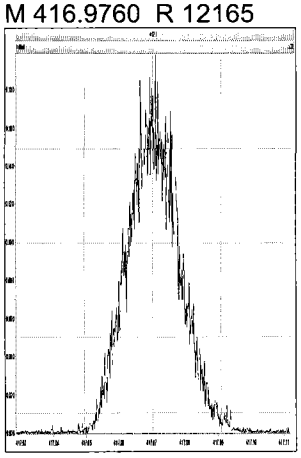

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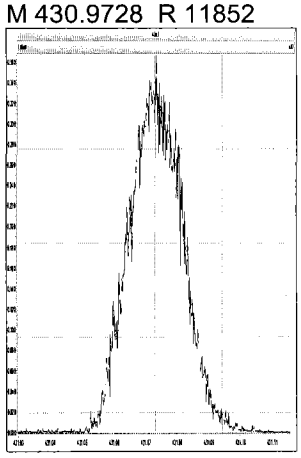

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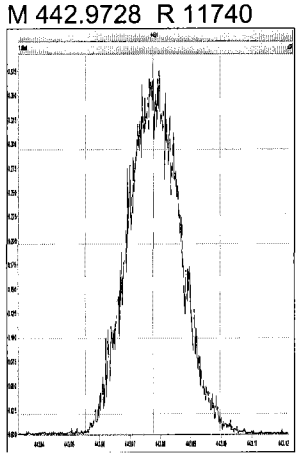

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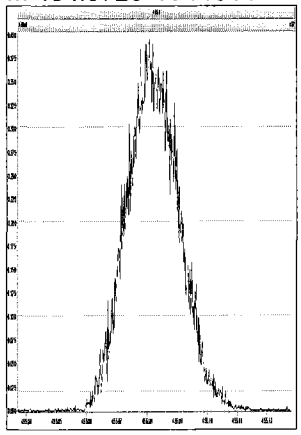

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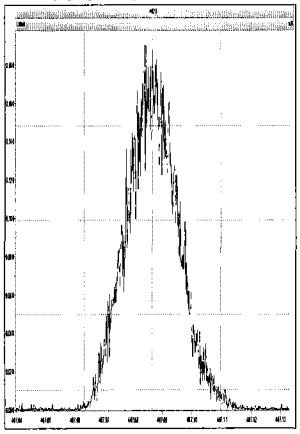

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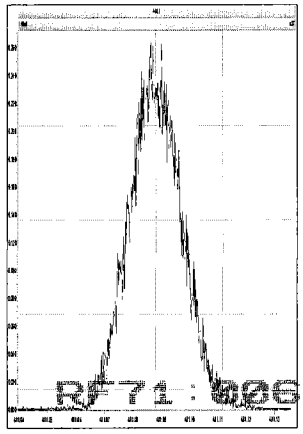

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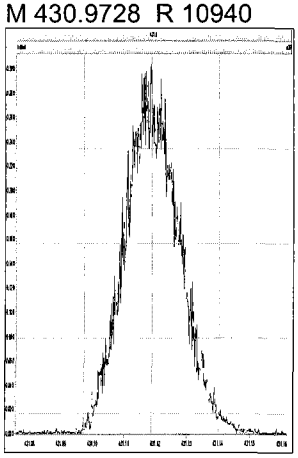

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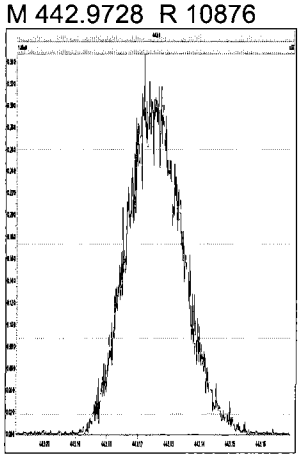

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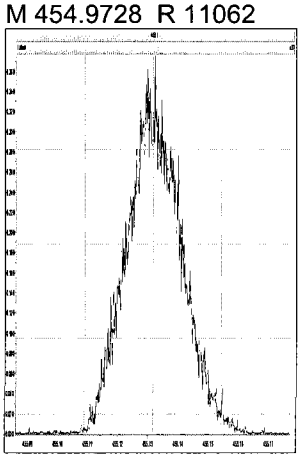

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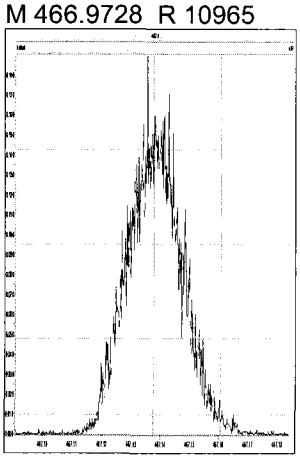

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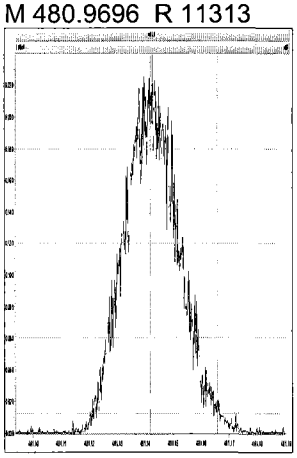

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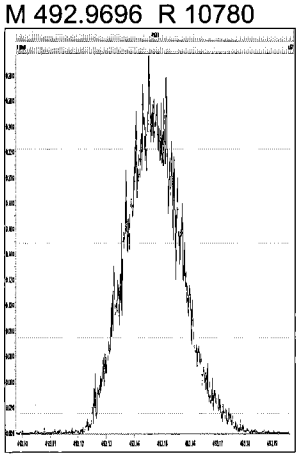

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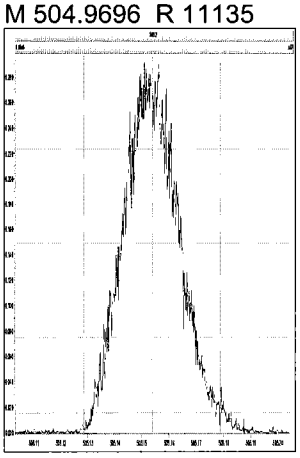

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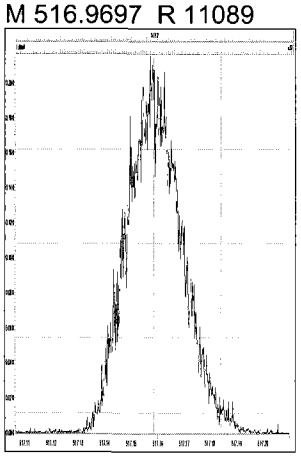

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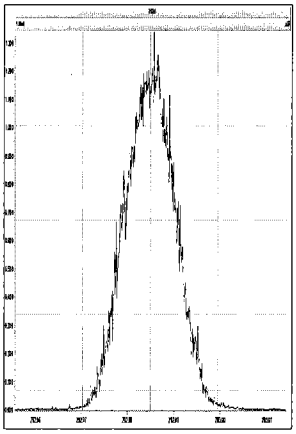

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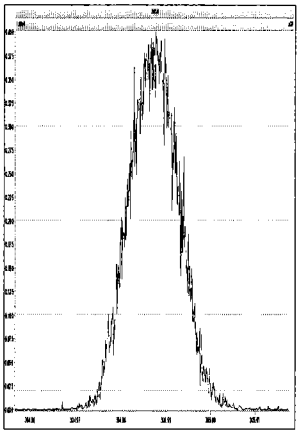

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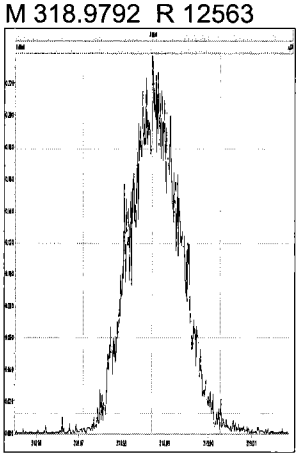

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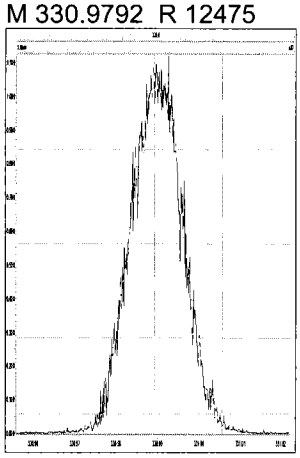

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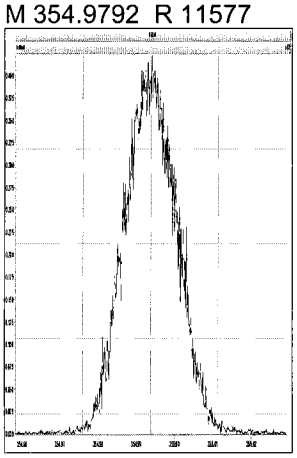

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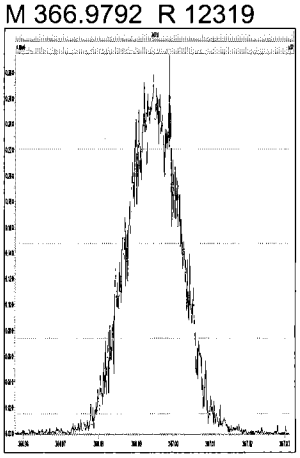

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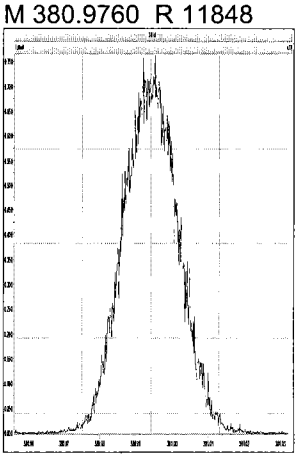

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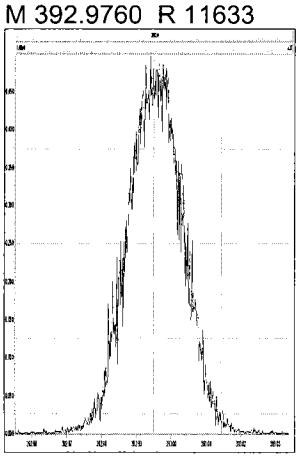
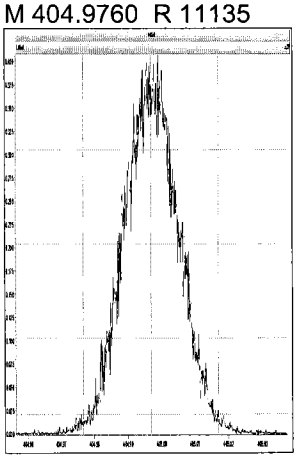
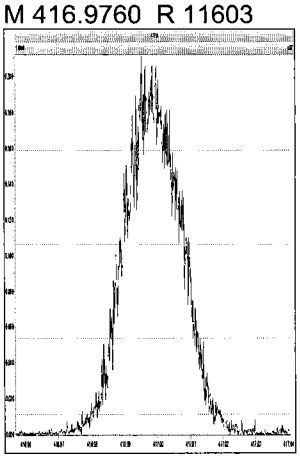


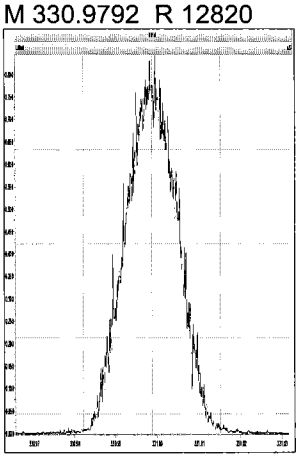
M 404.9760 R 11135



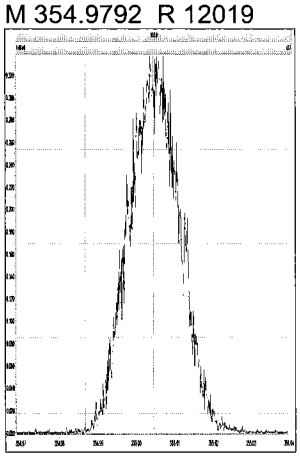
M 416.9760 R 11603



M 330.9792 R 12820



M 354.9792 R 12019



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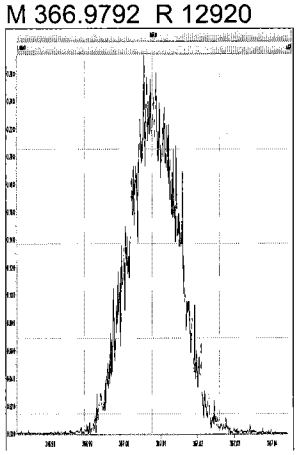
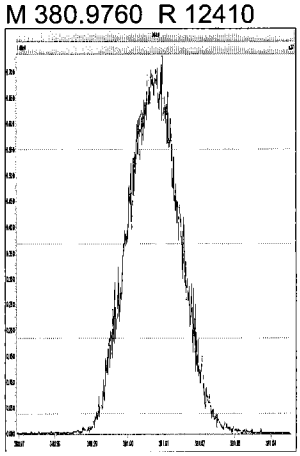


M 380.9760 R 12410



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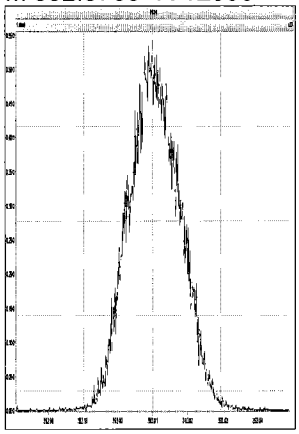

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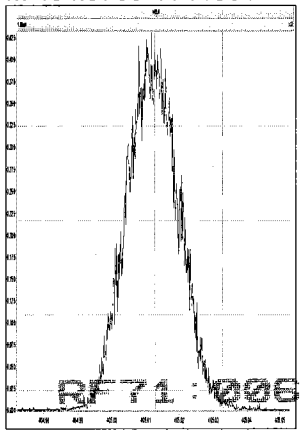

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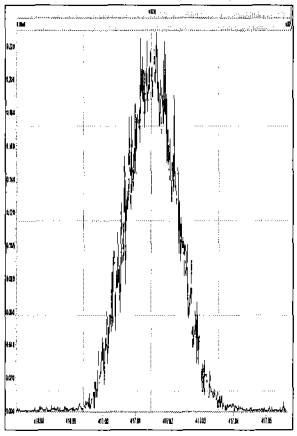
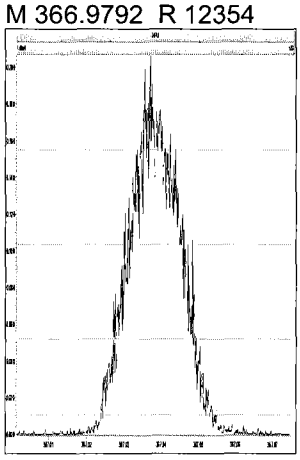
M 416.9760 R 12351



M 366.9792 R 12354



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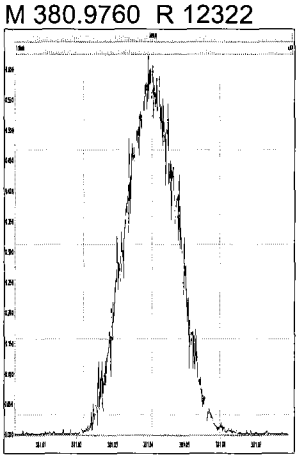

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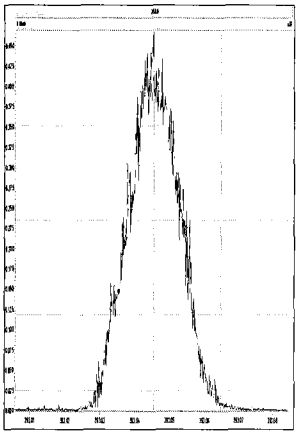

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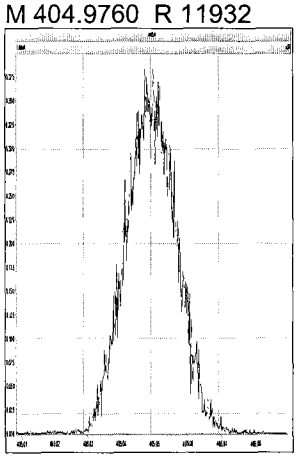
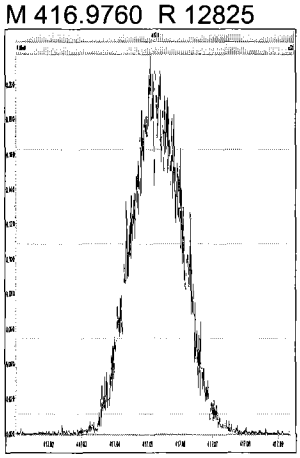
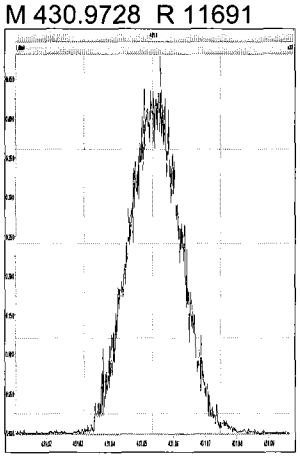


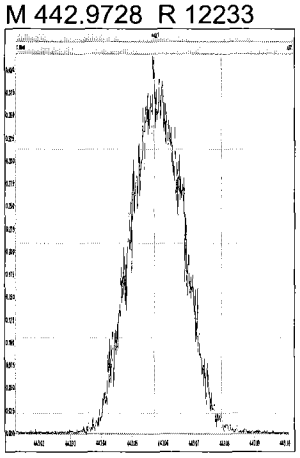
M 416.9760 R 12825



M 430.9728 R 11691



M 442.9728 R 12233



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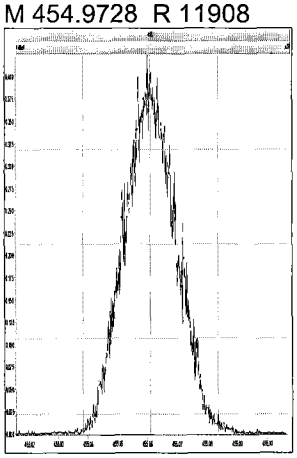

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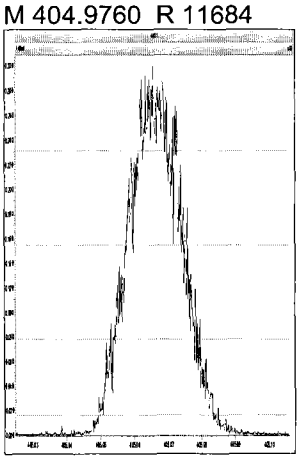

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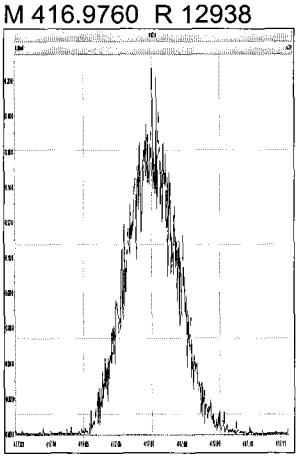
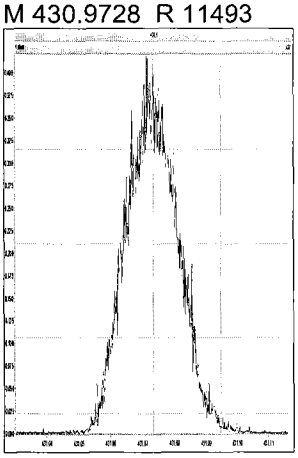


M 430.9728 R 11493



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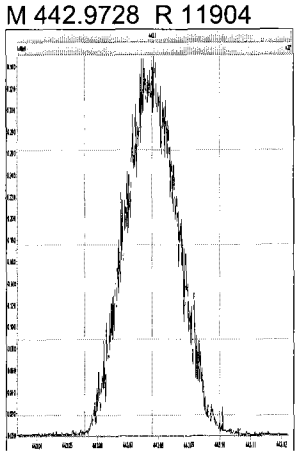

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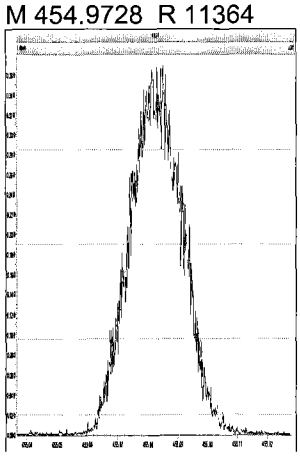
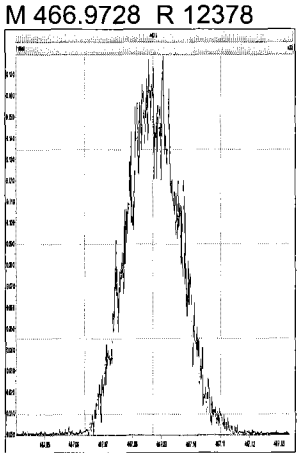
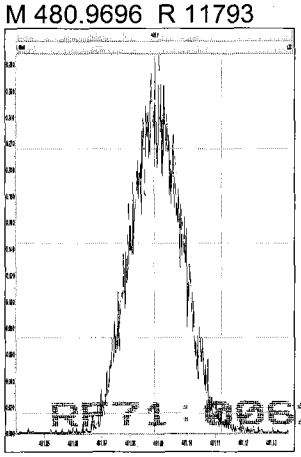


M 466.9728 R 12378



M 480.9696 R 11793



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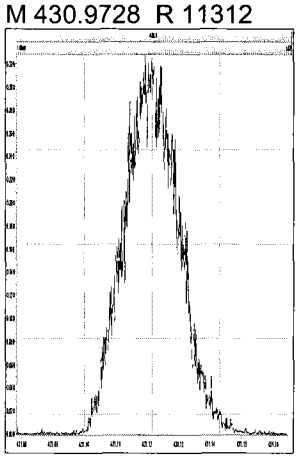
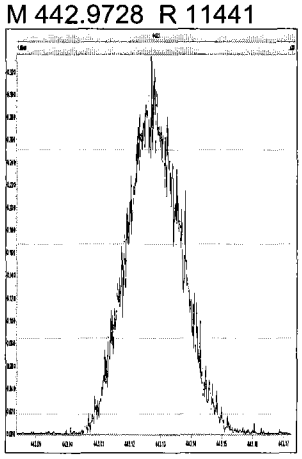


M 442.9728 R 11441



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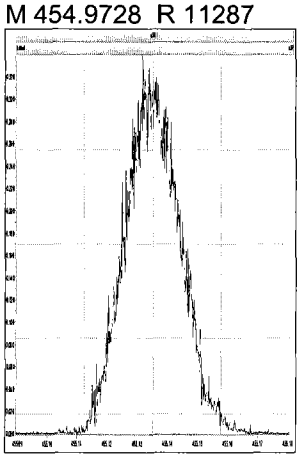
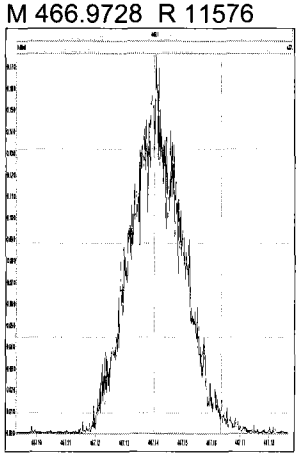
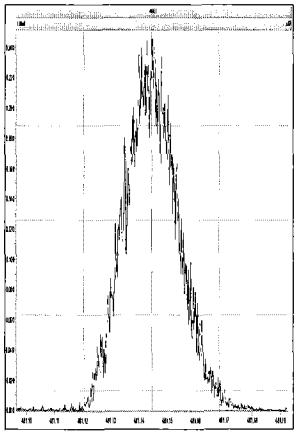


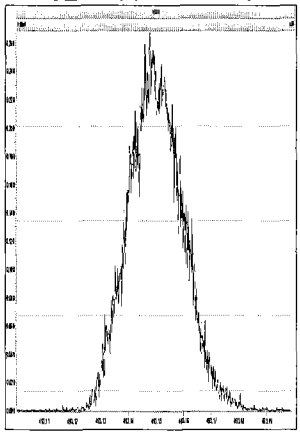
M 466.9728 R 11576



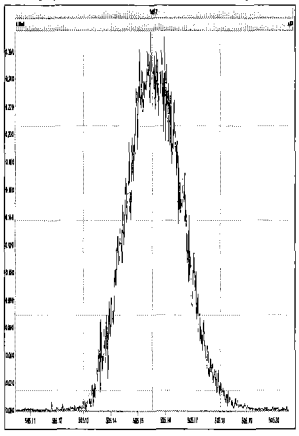
M 480.9696 R 11312



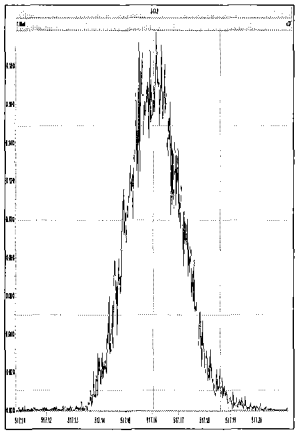
M 492.9696 R 11026



M 504.9696 R 11665



M 516.9697 R 11520



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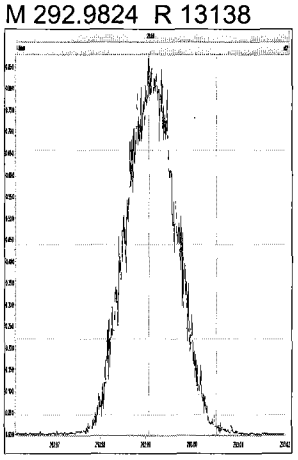
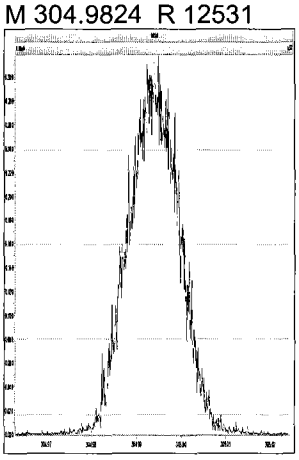
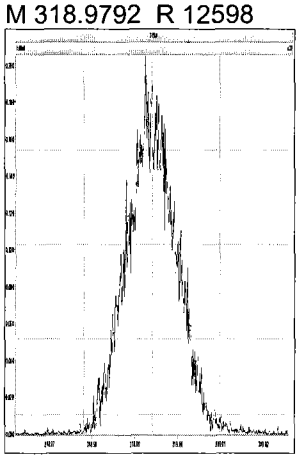


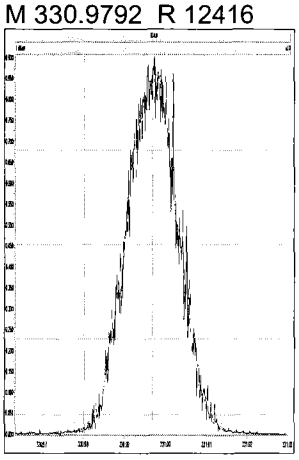
M 304.9824 R 12531



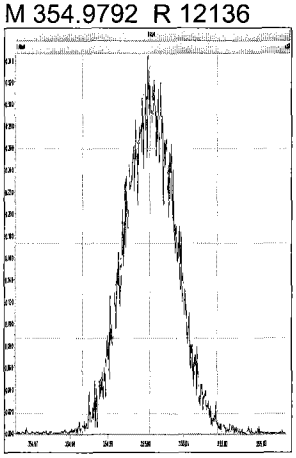
M 318.9792 R 12598



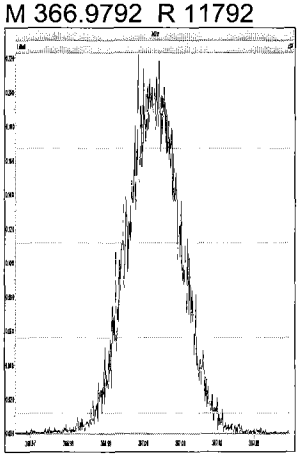
M 330.9792 R 12416



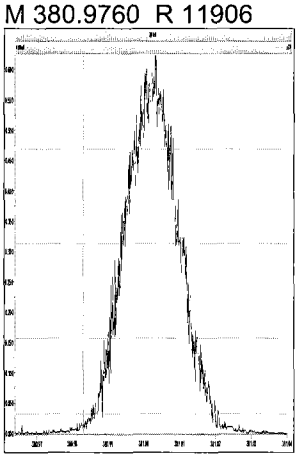
M 354.9792 R 12136



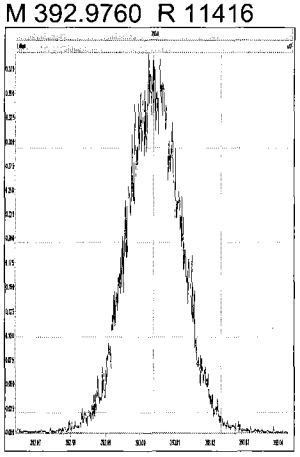
M 366.9792 R 11792



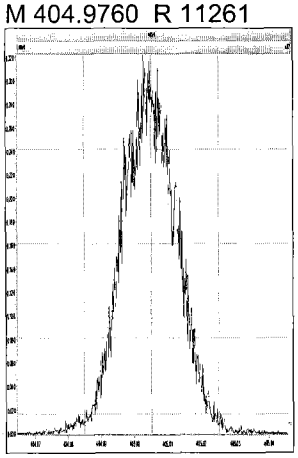
M 380.9760 R 11906



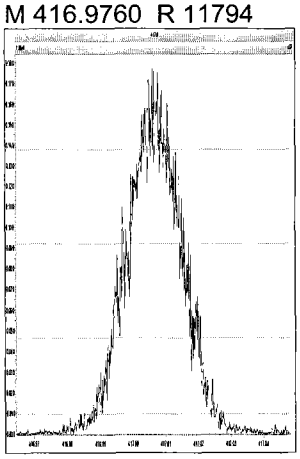
M 392.9760 R 11416



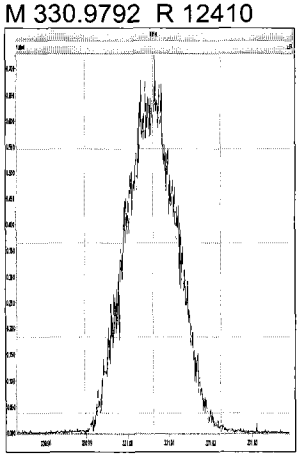
M 404.9760 R 11261



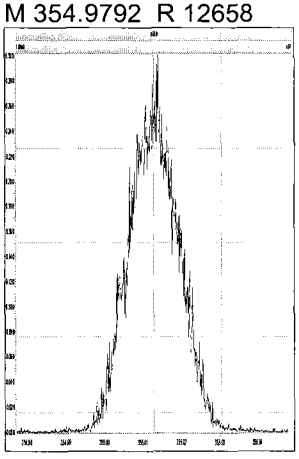
M 416.9760 R 11794



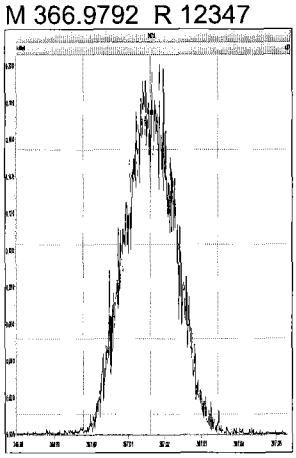
M 330.9792 R 12410



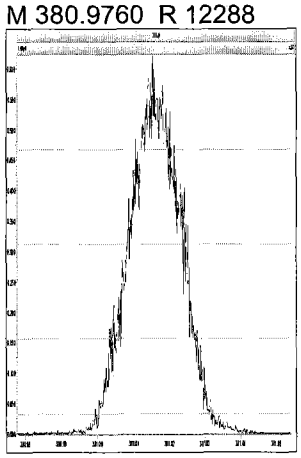
M 354.9792 R 12658



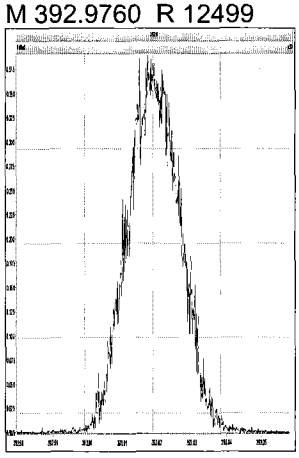
M 366.9792 R 12347



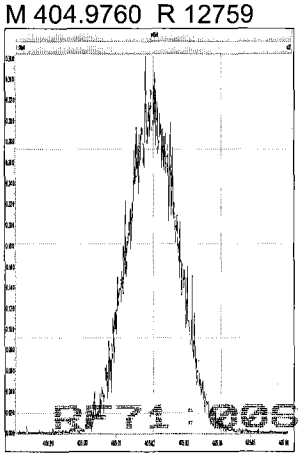
M 380.9760 R 12288



M 392.9760 R 12499



M 404.9760 R 12759



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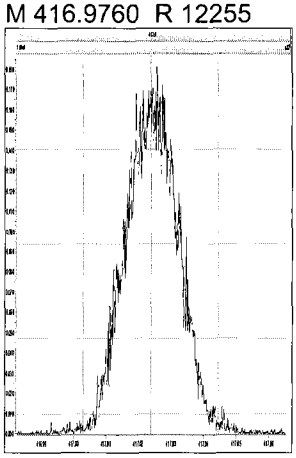
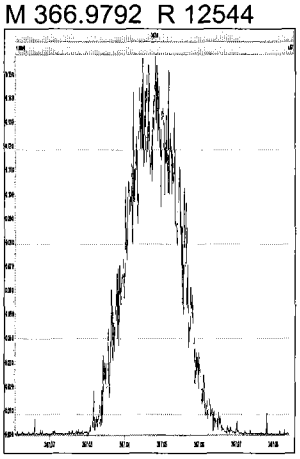
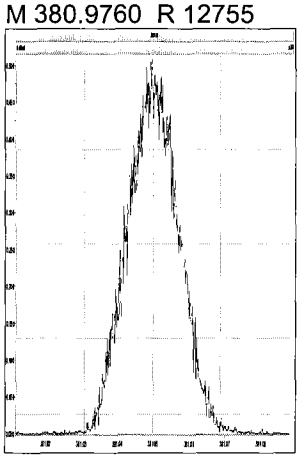
M 416.9760 R 12255



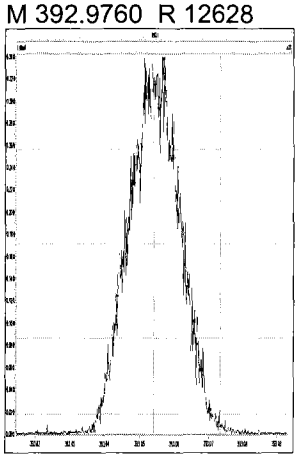
M 366.9792 R 12544



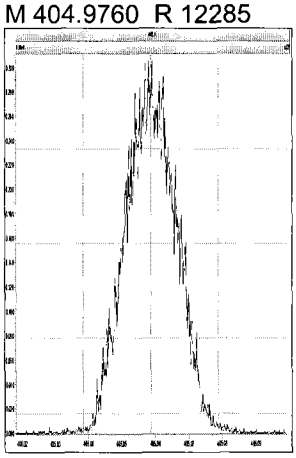
M 380.9760 R 12755



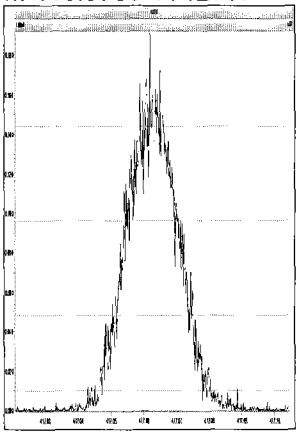
M 392.9760 R 12628



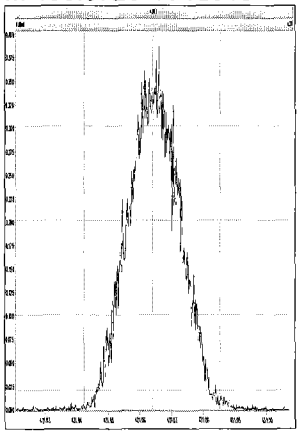
M 404.9760 R 12285



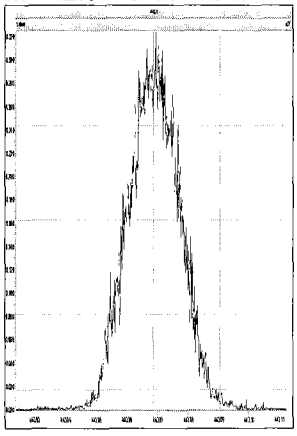
M 416.9760 R 12797



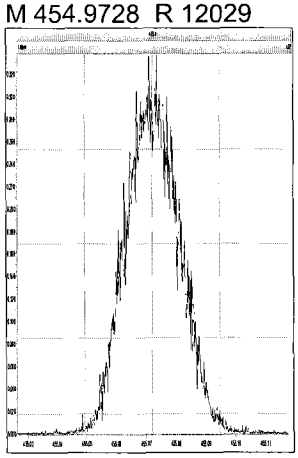
M 430.9728 R 12319



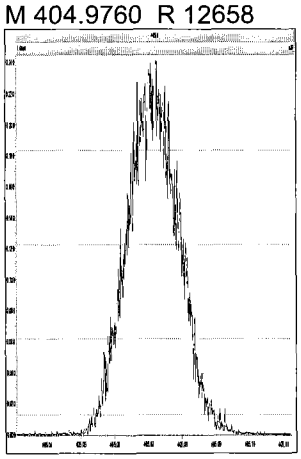
M 442.9728 R 12347



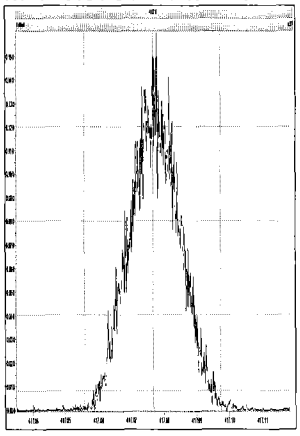
M 454.9728 R 12029



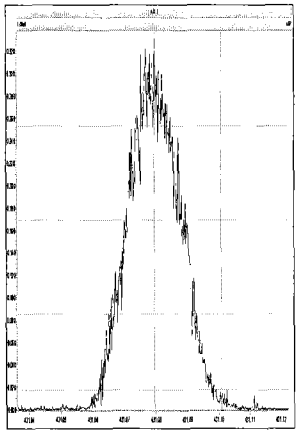
M 404.9760 R 12658



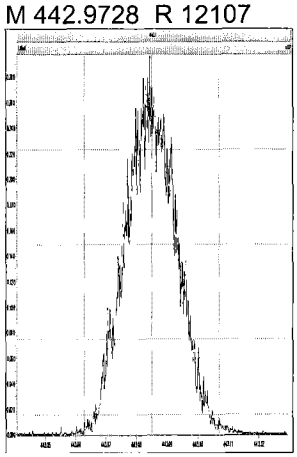
M 416.9760 R 12570



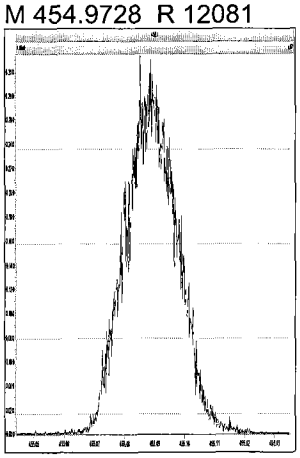
M 430.9728 R 12228



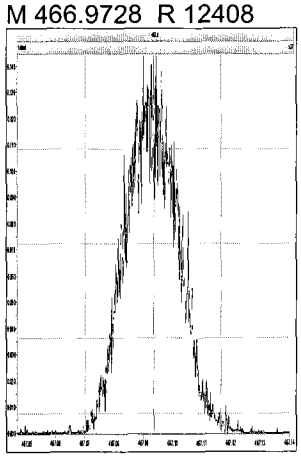
M 442.9728 R 12107



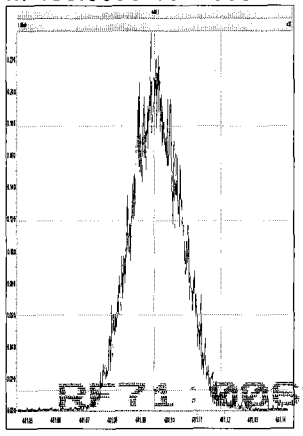
M 454.9728 R 12081



M 466.9728 R 12408



M 480.9696 R 11995



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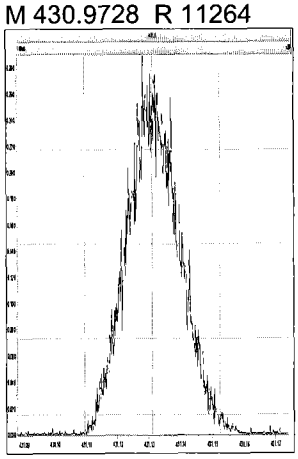
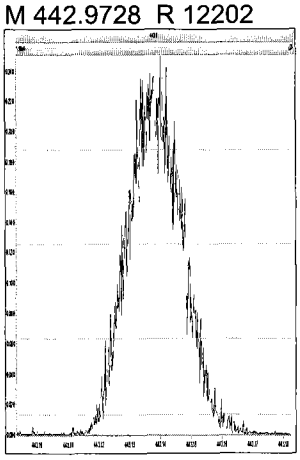
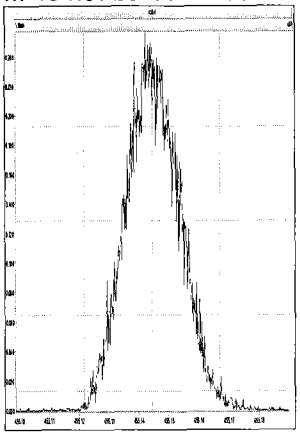
M 430.9728 R 11264



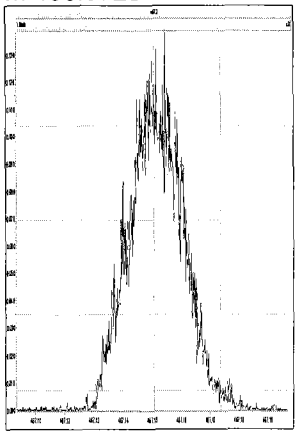
M 442.9728 R 12202



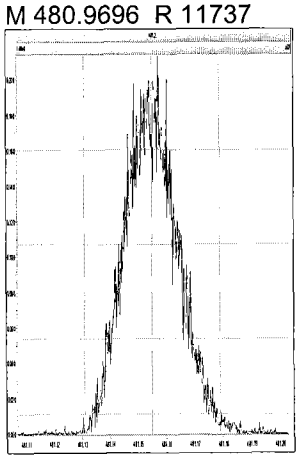
M 454.9728 R 11499



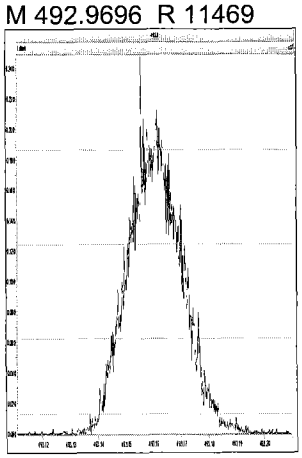
M 466.9728 R 11764



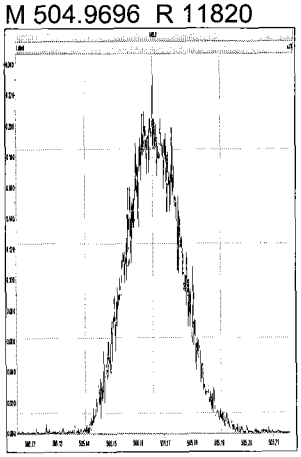
M 480.9696 R 11737



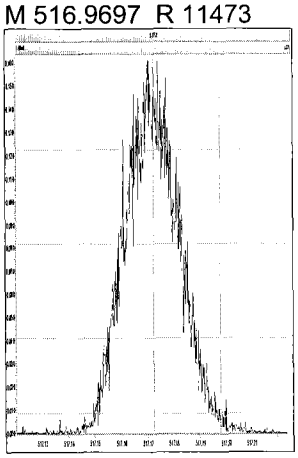
M 492.9696 R 11469



M 504.9696 R 11820



M 516.9697 R 11473



Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA1.qld
Last Altered: Thursday, August 05, 2010 14:42:23 Pacific Daylight Time
Printed: Thursday, August 05, 2010 14:43:08 Pacific Daylight Time

OPEN CCAL

8-5-10 LS

RF71 : 89626

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080502, Date: 05-Aug-2010, Time: 11:46:23, ID: CS3, Lab: , Conditions: METHOD 8290A, User: VTS

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1°...	EMPC
1	1	2378-TCDF	303.9016	26.74	26.72	413712	0.871		10.03	bb	100.3	0.76	0.77	NO	10.03
2	2	12378-PeCDF	339.8597	30.88	30.87	1713837	0.890		50.59	bd	101.2	1.52	1.55	NO	50.59
3	3	23478-PeCDF	339.8597	32.22	32.21	1712113	0.913		51.06	bb	102.1	1.53	1.55	NO	51.06
4	4	123478-HxCDF	373.8208	35.89	35.87	1510239	1.087		49.47	bd	98.9	1.23	1.24	NO	49.47
5	5	234678-HxCDF	373.8208	36.97	36.95	1532855	1.066		49.43	bb	98.9	1.21	1.24	NO	49.43
6	6	123678-HxCDF	373.8208	36.03	36.02	1608501	1.043		51.02	db	102.0	1.19	1.24	NO	51.02
7	7	123789-HxCDF	373.8208	38.06	38.05	1332959	1.001		49.64	bb	99.3	1.25	1.24	NO	49.64
8	8	1234678-HpCDF	407.7818	40.16	40.15	1486913	1.234		50.44	bb	100.9	1.00	1.05	NO	50.44
9	9	1234789-HpCDF	407.7818	42.97	42.96	1186543	1.233		50.50	bd	101.0	1.03	1.05	NO	50.50
10	10	OCDF	441.7428	48.48	48.45	2225839	1.128		99.38	bd	99.4	0.90	0.89	NO	99.38
11	11	2378-TCDD	319.8965	27.38	27.36	313307	1.041		9.79	bb	97.9	0.76	0.77	NO	9.79
12	12	12378-PeCDD	355.8546	32.47	32.46	1204037	0.969		49.91	bb	99.8	1.54	1.55	NO	49.91
13	13	123478-HxCDD	389.8157	37.09	37.08	1141931	0.967		48.84	bd	97.7	1.25	1.24	NO	48.84
14	14	123678-HxCDD	389.8157	37.23	37.22	1168046	0.893		51.26	db	102.5	1.24	1.24	NO	51.26
15	15	123789-HxCDD	389.8157	37.63	37.66	1143734	0.909		50.65	bb	101.3	1.23	1.24	NO	50.65
16	16	1234678-HpCDD	423.7766	42.04	42.03	1042402	0.982		51.47	bd	102.9	1.05	1.05	NO	51.47
17	17	OCDD	457.7377	48.18	48.16	1962196	0.985		100.32	bd	100.3	0.88	0.89	NO	100.32
18	18	13C-2378-TCDF	315.9419	26.72	26.72	4734241	1.608		98.23	bb	98.2	0.77	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.87	30.87	3807060	1.281		99.20	bb	99.2	1.58	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.21	3671973	1.261		97.16	bb	97.2	1.57	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.87	35.87	2809677	1.131		101.36	bd	101.4	0.52	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.02	36.02	3022503	1.260		97.85	db	97.8	0.52	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.95	36.95	2909996	1.193		99.50	bb	99.5	0.52	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.05	38.05	2683349	1.097		99.80	bb	99.8	0.52	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.15	40.15	2388018	0.934		104.28	bb	104.3	0.45	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.96	42.96	1904976	0.760		102.23	bb	102.2	0.44	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.54	26.54	2996853	1.000		100.00	bb	100.0	0.77	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.36	27.36	3071298	1.041		98.47	bb	98.5	0.78	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.46	32.46	2488943	0.847		98.07	bd	98.1	1.54	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.08	37.08	2418830	0.965		102.20	bd	102.2	1.25	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.22	37.21	2551070	1.072		97.10	db	97.1	1.23	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.03	2061913	0.806		104.34	bd	104.3	1.02	1.05	NO	
33	33	13C-OCDD	469.7779	48.16	48.17	3970654	0.814		198.83	bd	99.4	0.87	0.89	NO	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA1.qld
Last Altered: Thursday, August 05, 2010 14:42:23 Pacific Daylight Time
Printed: Thursday, August 05, 2010 14:43:08 Pacific Daylight Time

Name: 10080502, Date: 05-Aug-2010, Time: 11:46:23, ID: CS3, Lab: , Conditions: METHOD 8290A, User: VTS

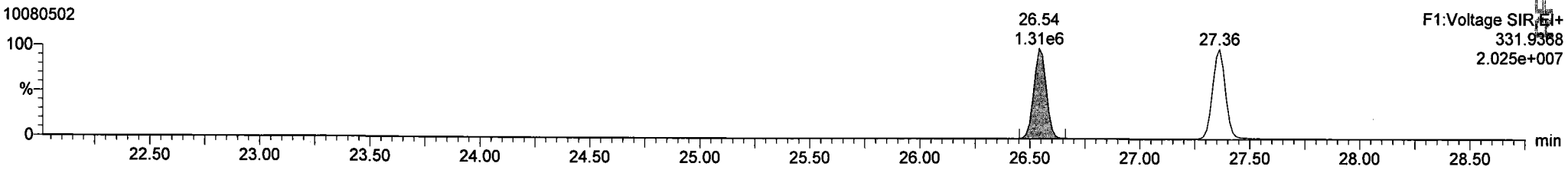
	#Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1°...	EMPC
34	34 13C-123789-HxCDD	401.8559	37.62	37.62	2451791	1.000		100.00	bb	100.0	1.24	1.24	NO	
35	35 Total-tetrafurans	303.9016		0.00		0.871		28.47						
36	36 Total-penta1	339.8597	28.08	28.08	2158147	1.141		50.60	bb	101.2	1.55	1.55	NO	
37	37 Total-pentafurans	339.8597		0.00		0.901		144.86						
38	38 Total-hexafurans	373.8208		0.00		1.049		257.17						
39	39 Total-heptafurans	407.7818		0.00		1.234		100.94						
40	40 Total-Furans	303.9016		0.00		1.055		681.42						
41	41 Total-tetradioxins	319.8965		0.00		1.041		53.04						
42	42 Total-pentadioxins	355.8546		0.00		0.969		167.68						
43	43 Total-hexadioxins	389.8157		0.00		0.923		213.30						
44	44 Total-heptadioxins	423.7766		0.00		0.982		108.25						
45	45 Total-Dioxins	319.8965		0.00		0.964		642.59						
46	46 Total-TEQ	319.8965		0.00				1324.01						
47	47 37CL-2378-TCDD	327.8847	27.38	27.38	338214	1.166		9.68		96.8				
48	48 FUNCTION1 PFK	330.9792		0.00										
49	49 FUNCTION2 PFK	366.9792		0.00				0.00						
50	50 FUNCTION3 PFK	380.9760		0.00										
51	51 FUNCTION4 PFK	430.9728		0.00										
52	52 FUNCTION5 PFK	480.9696		0.00										
53	53 FUNCTION1 HXCDPE	375.8364		0.00										
54	54 FUNCTION1 HPCDPE	409.7974		0.00										
55	55 FUNCTION2 HPCDPE	409.7974		0.00				0.00						
56	56 FUNCTION3 OCDPE	445.7555		0.00										
57	57 FUNCTION4 NCDPE	479.7165		0.00										
58	58 FUNCTION5 DCDPE	513.6775		0.00										

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA1.qld
Last Altered: Thursday, August 05, 2010 14:42:23 Pacific Daylight Time
Printed: Thursday, August 05, 2010 14:43:08 Pacific Daylight Time

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080502, Date: 05-Aug-2010, Time: 11:46:23, ID: CS3, Description: , Lab: , User: VTS

13C-1234-TCDD



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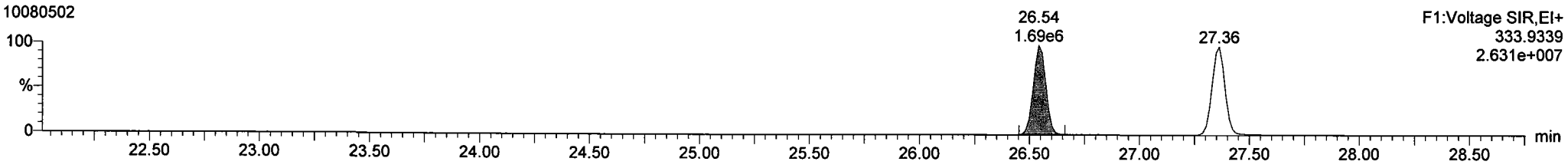

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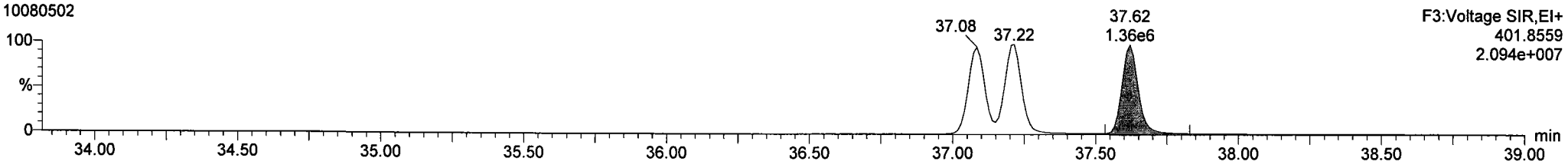
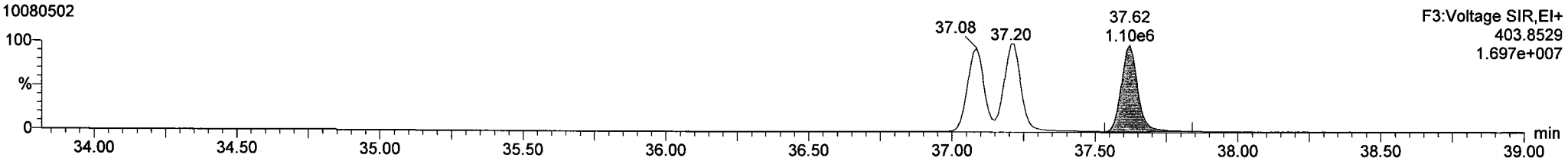


13C-123789-HxCDD



Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA1.qld
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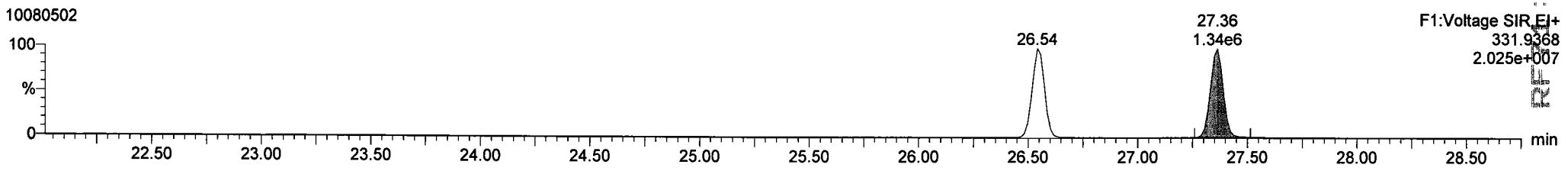
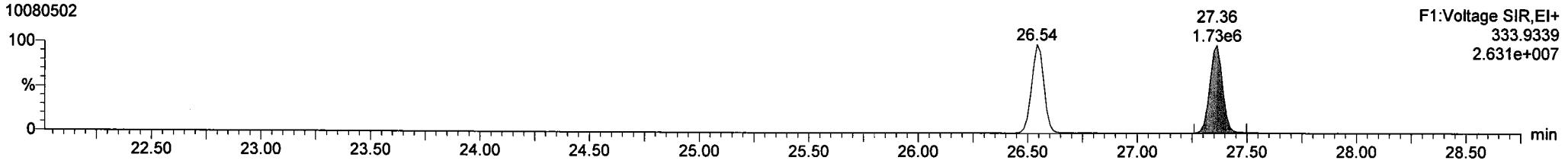
Printed: Thursday, August 05, 2010 14:43:08 Pacific Daylight Time

Name: 10080502, Date: 05-Aug-2010, Time: 11:46:23, ID: CS3, Description: , Lab: , User: VTS

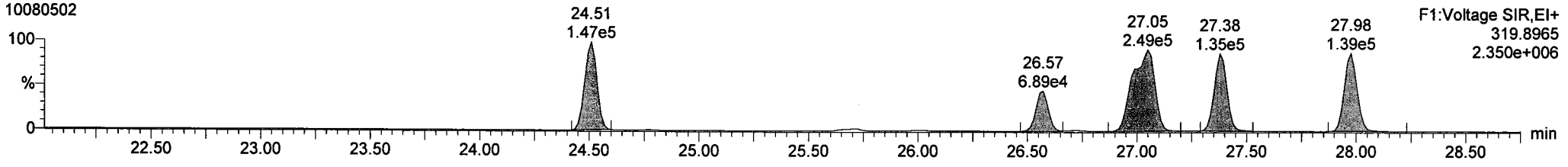
13C-2378-TCDD



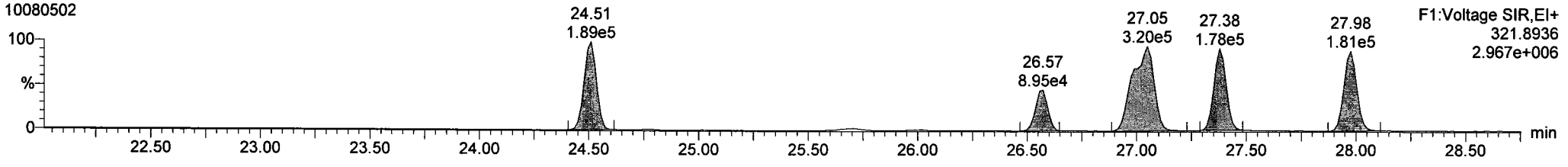
13C-2378-TCDD



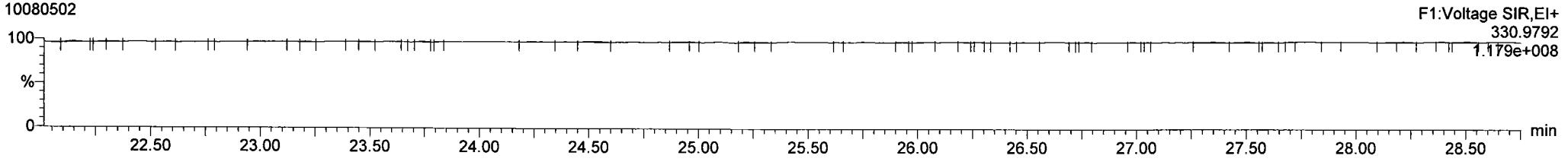
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



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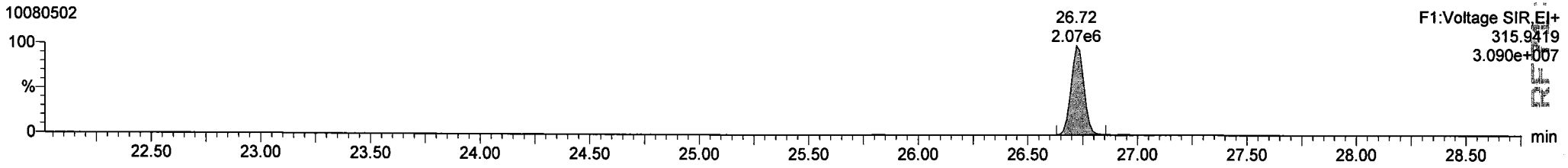
Name: 10080502, Date: 05-Aug-2010, Time: 11:46:23, ID: CS3, Description: , Lab: , User: VTS

13C-2378-TCDF



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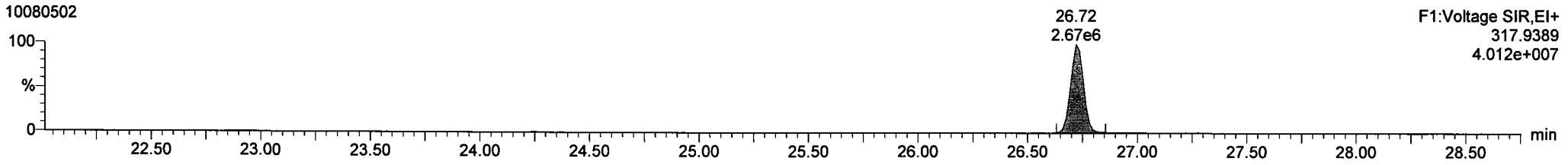
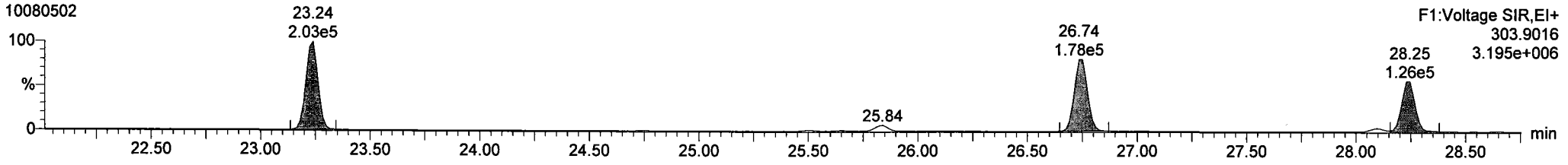
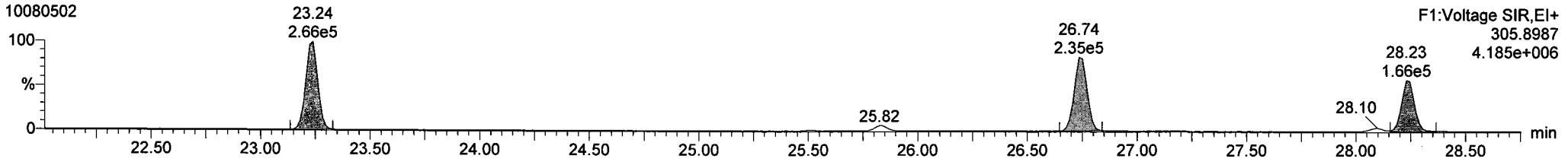


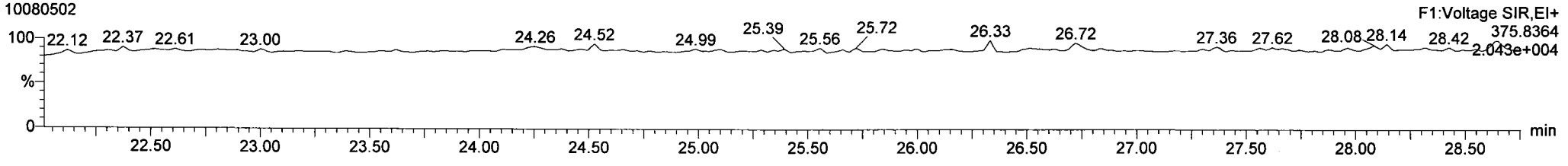
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



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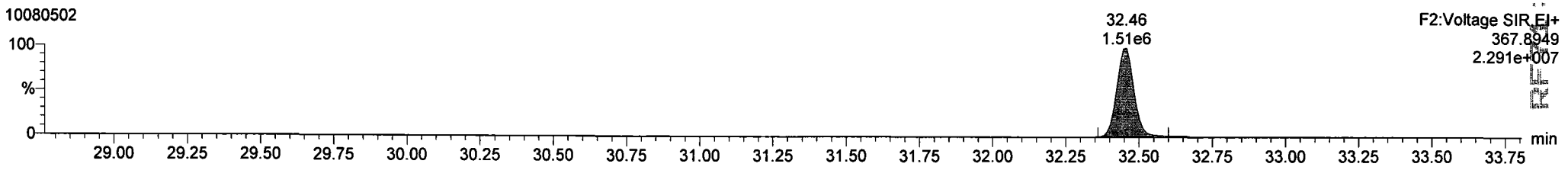
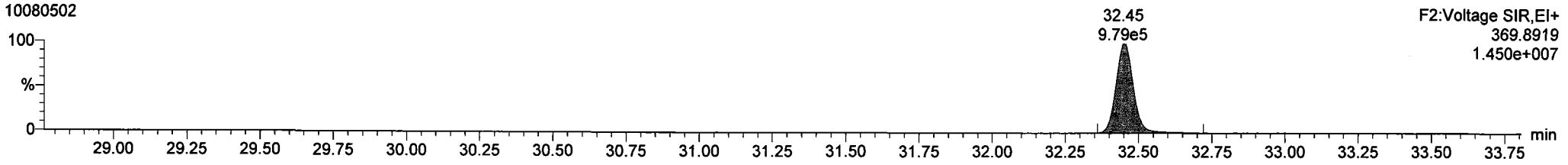
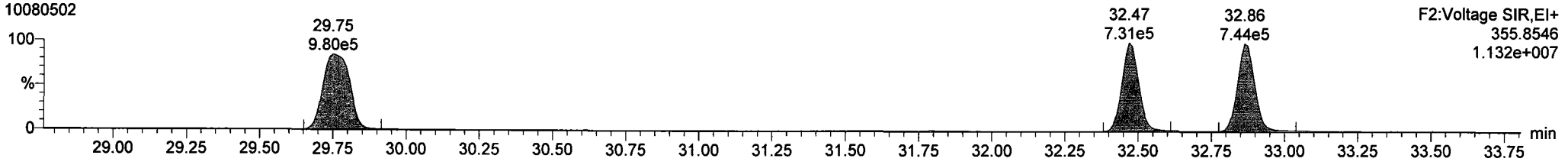
13C-12378-PeCDD



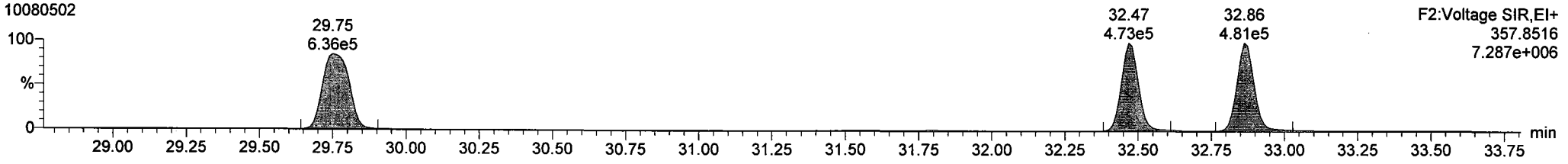
13C-12378-PeCDD



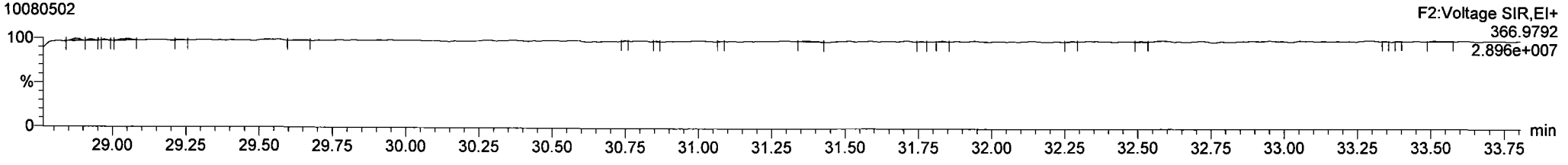
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



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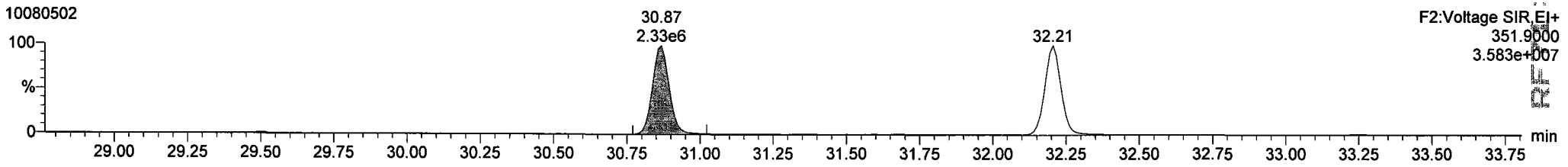
13C-12378-PeCDF



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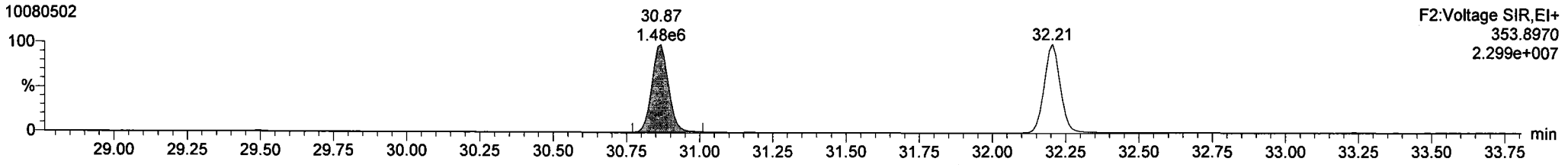
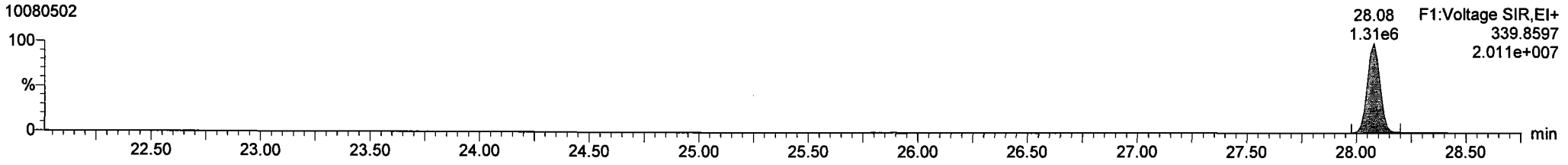


Total-penta1



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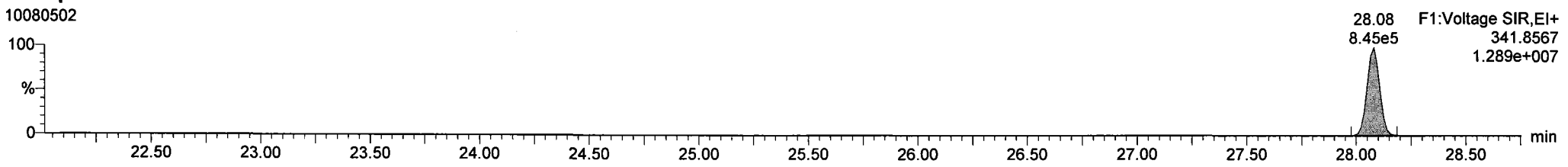
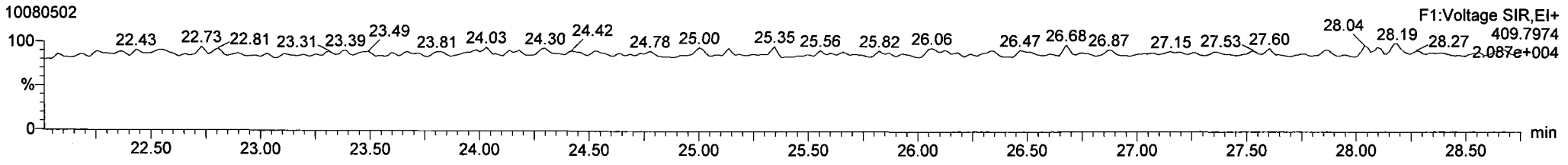


FUNCTION1 HPCDPE



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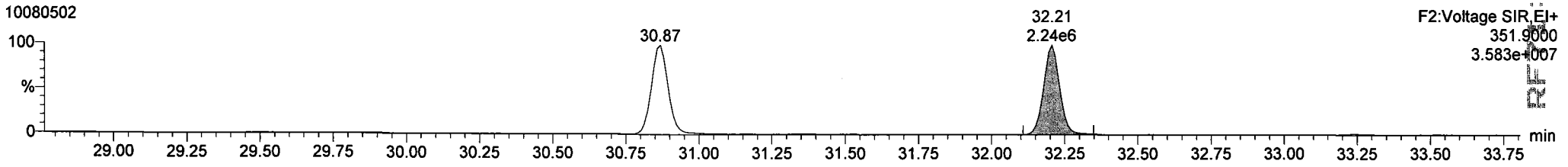
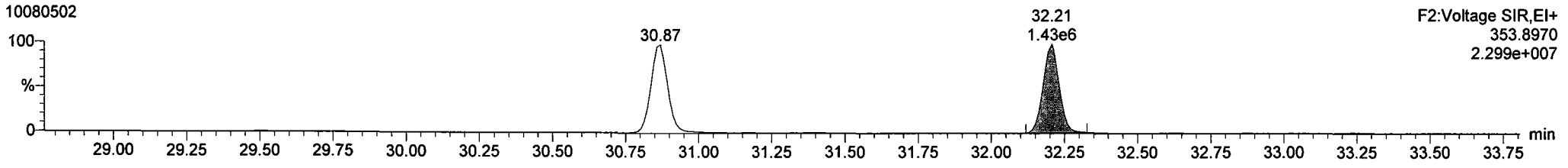
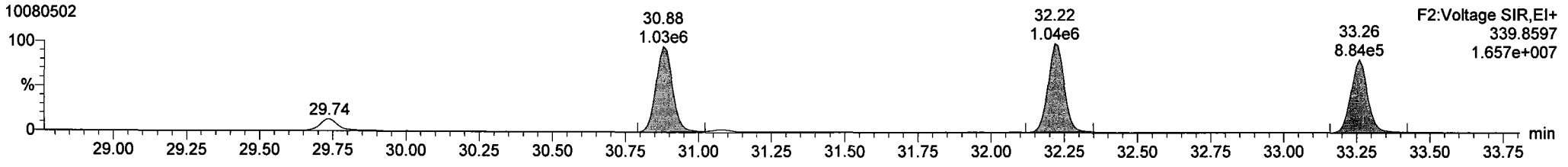
13C-23478-PeCDF



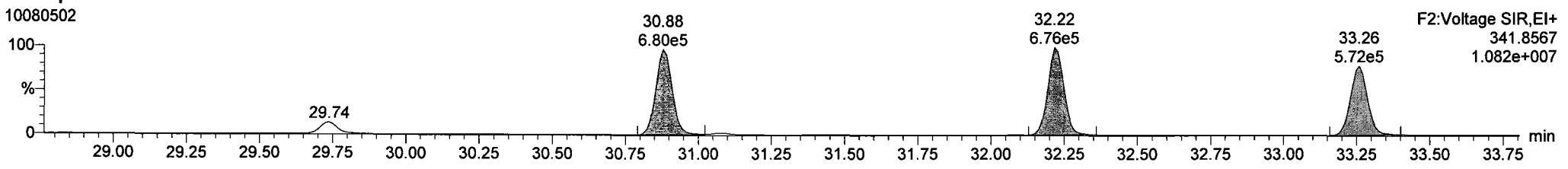
13C-23478-PeCDF



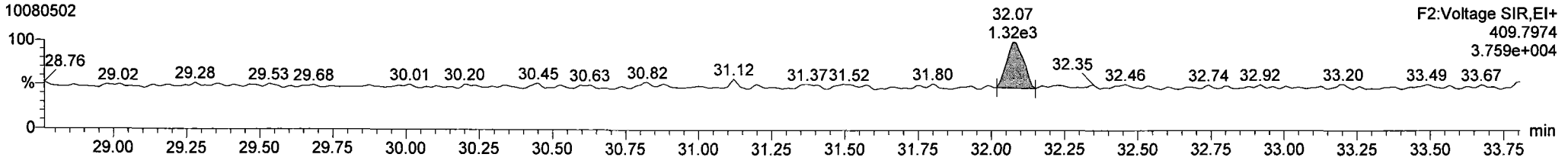
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



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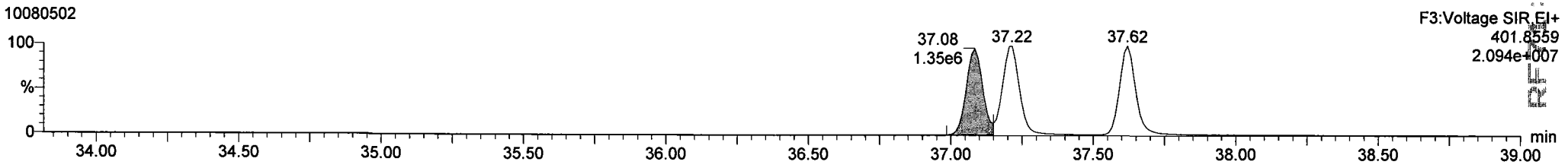
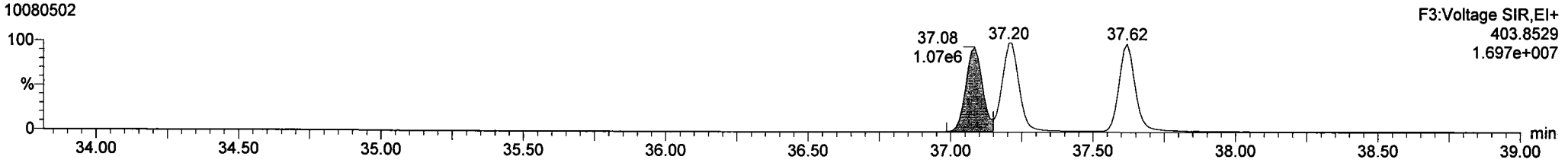
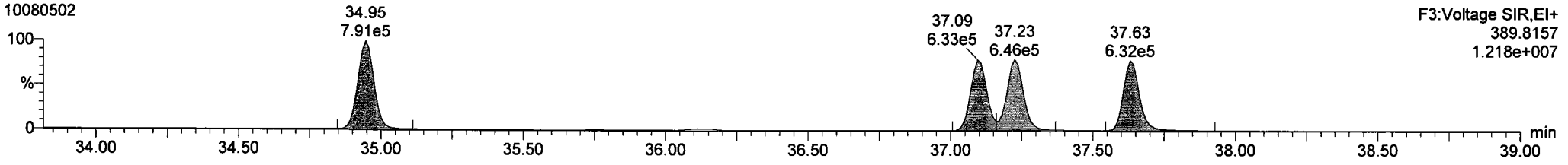
13C-123478-HxCDD



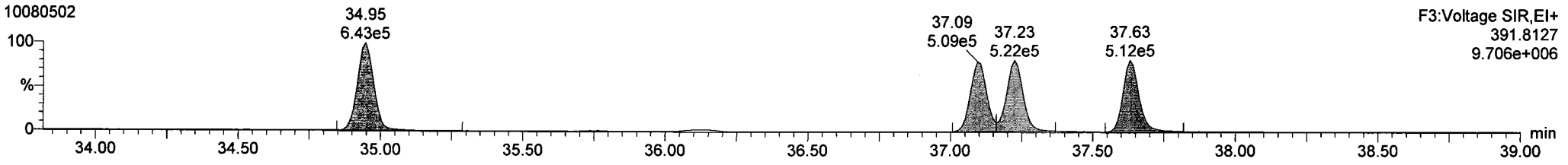
13C-123478-HxCDD



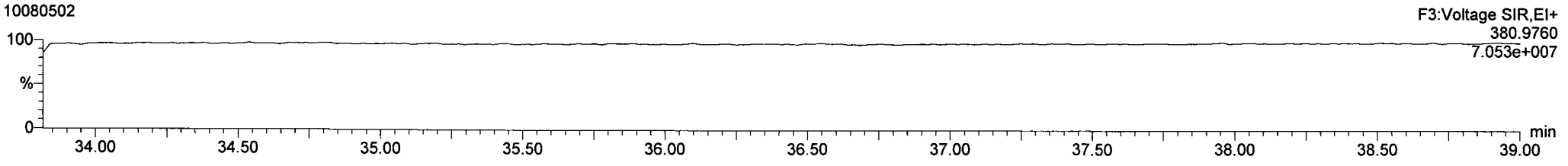
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



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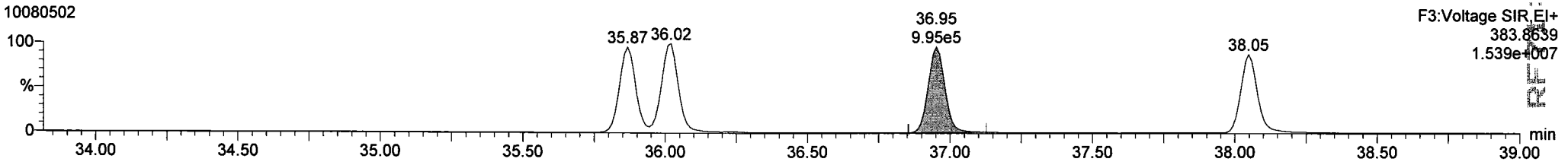
13C-234678-HxCDF



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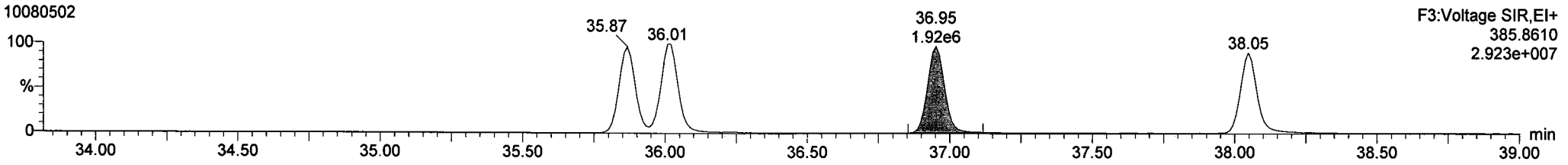
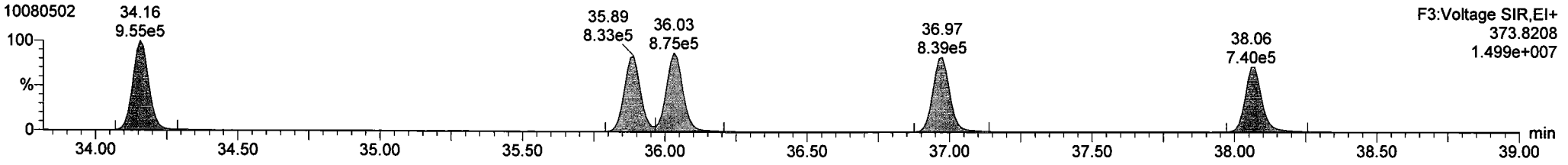
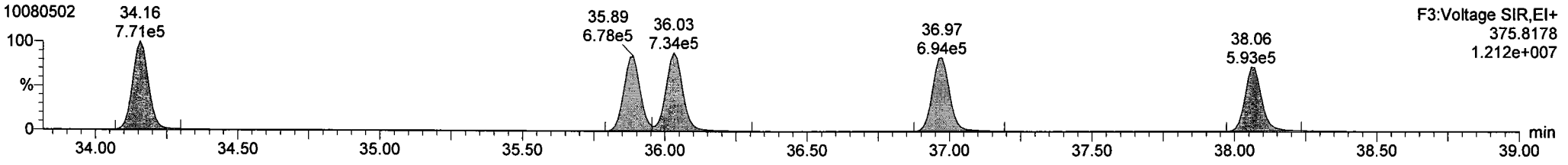


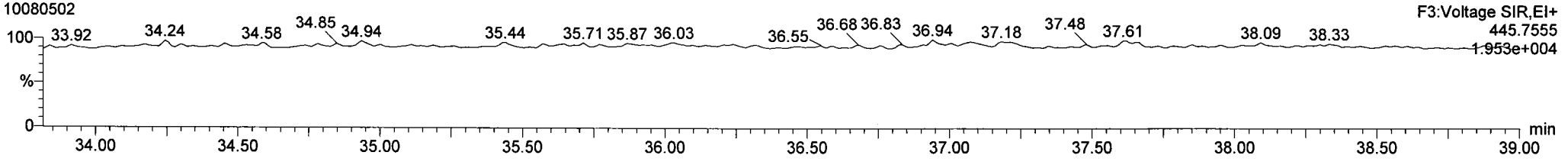
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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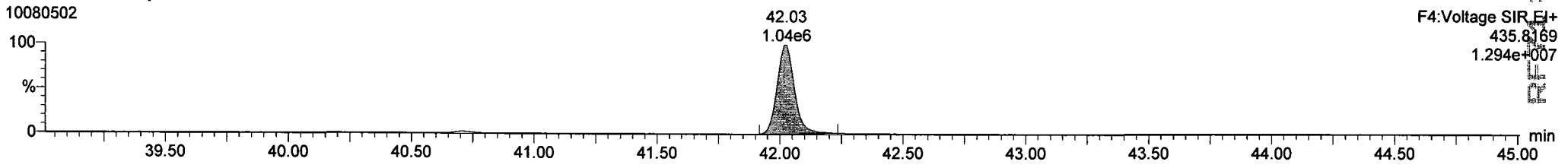
13C-1234678-HpCDD



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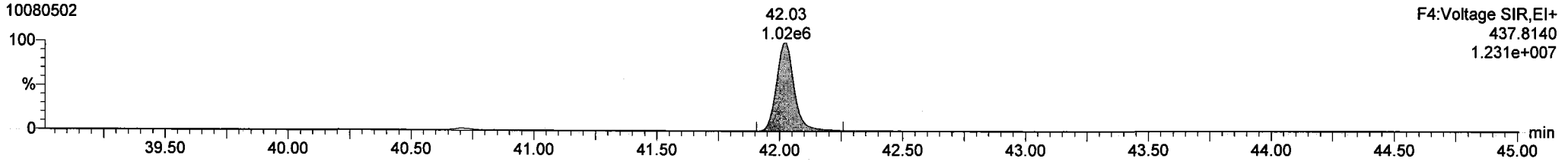
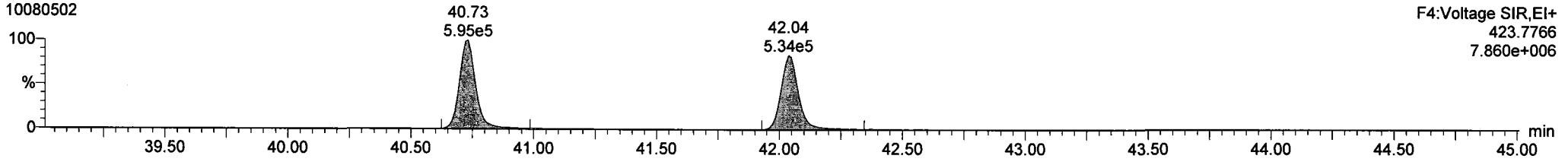
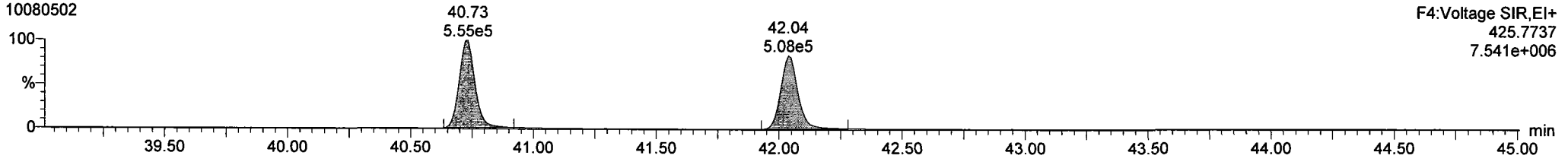


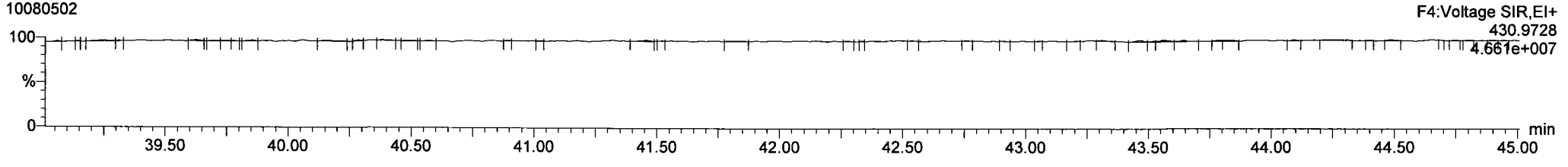
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



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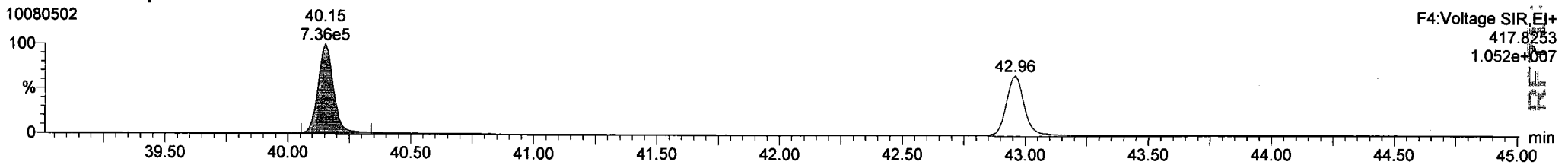
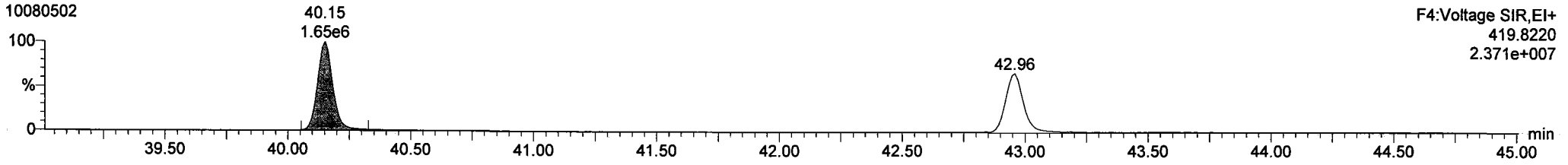
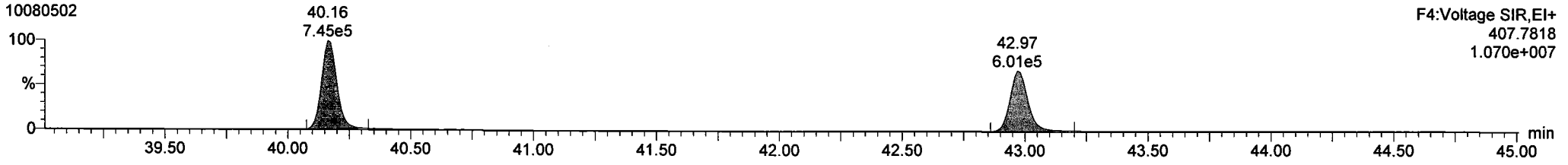
13C-1234678-HpCDF



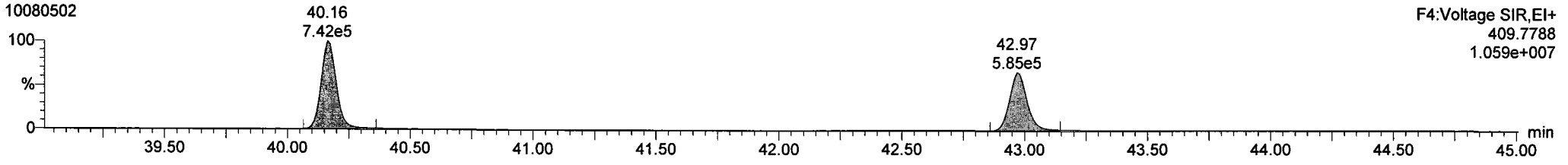
13C-1234678-HpCDF



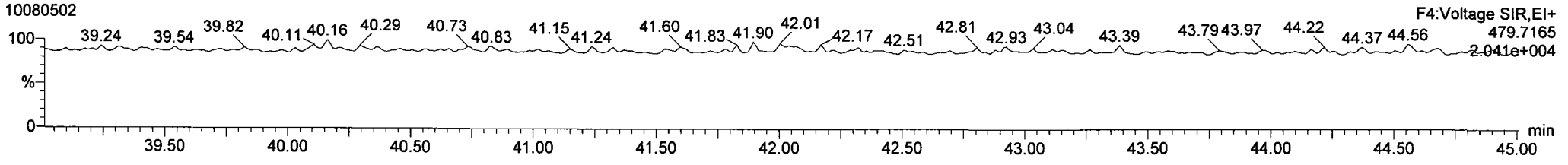
Total-heptafurans



Total-heptafurans



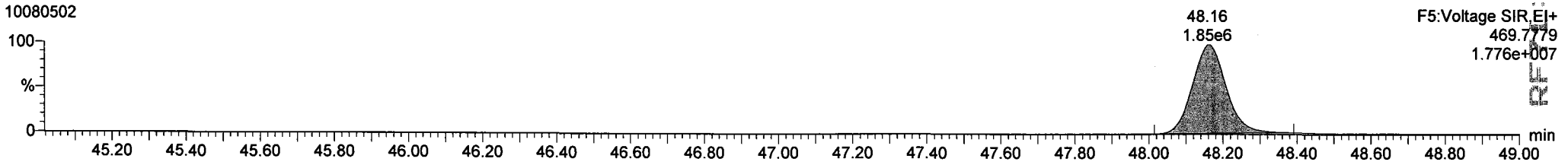
FUNCTION4 NCDPE



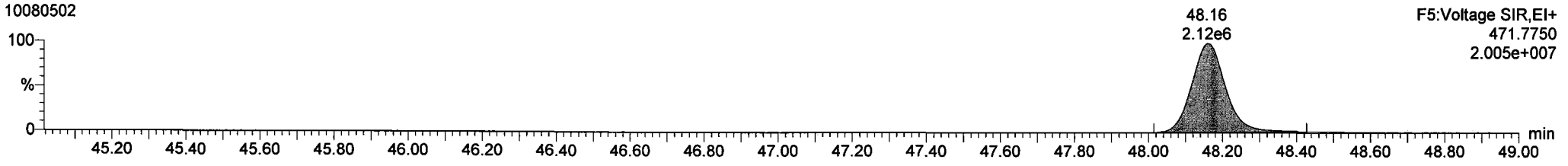
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA1.qld
Last Altered: Thursday, August 05, 2010 14:42:23 Pacific Daylight Time
Printed: Thursday, August 05, 2010 14:43:08 Pacific Daylight Time

Name: 10080502, Date: 05-Aug-2010, Time: 11:46:23, ID: CS3, Description: , Lab: , User: VTS

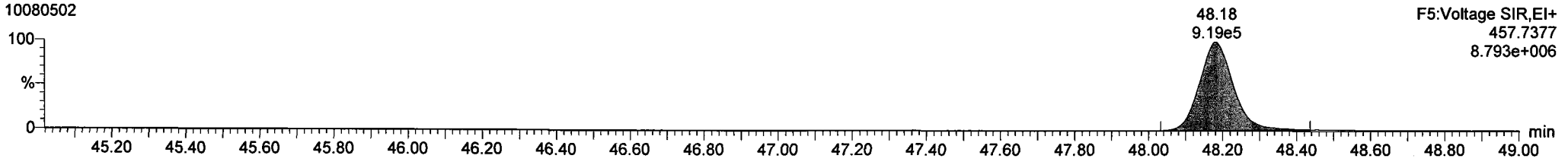
13C-OCDD



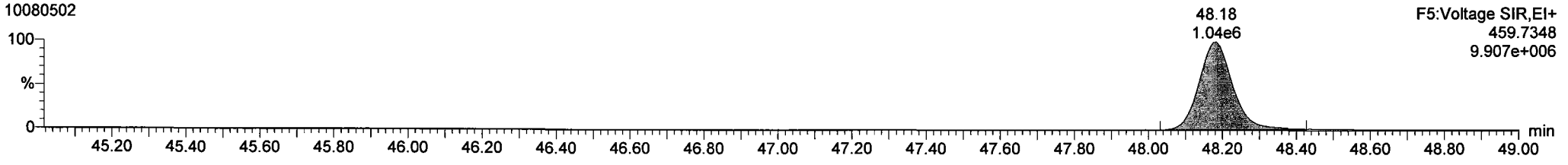
13C-OCDD



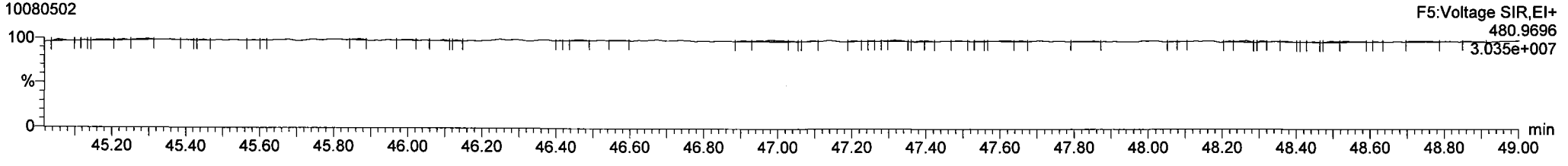
OCDD



OCDD



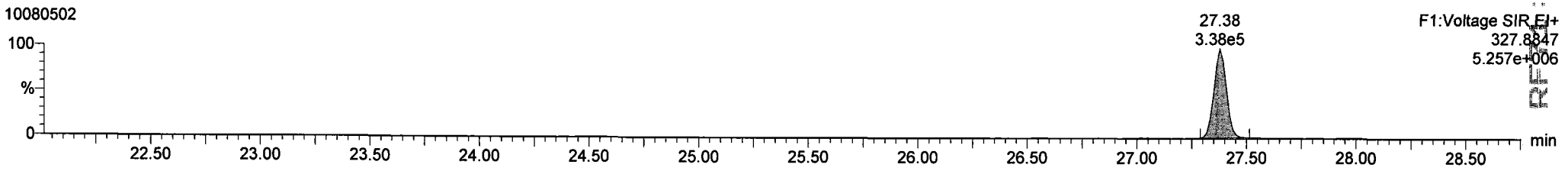
FUNCTION5 PFK



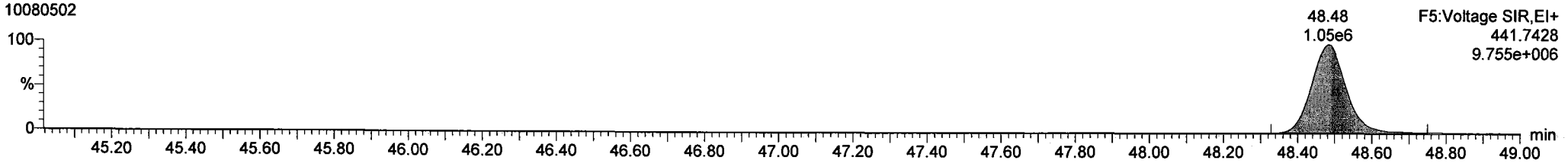
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA1.qld
Last Altered: Thursday, August 05, 2010 14:42:23 Pacific Daylight Time
Printed: Thursday, August 05, 2010 14:43:08 Pacific Daylight Time

Name: 10080502, Date: 05-Aug-2010, Time: 11:46:23, ID: CS3, Description: , Lab: , User: VTS

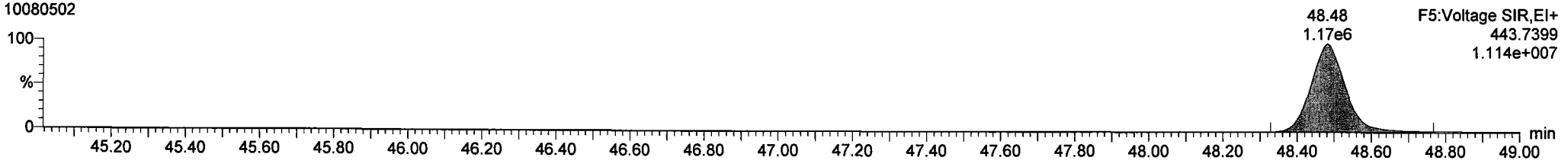
37CL-2378-TCDD



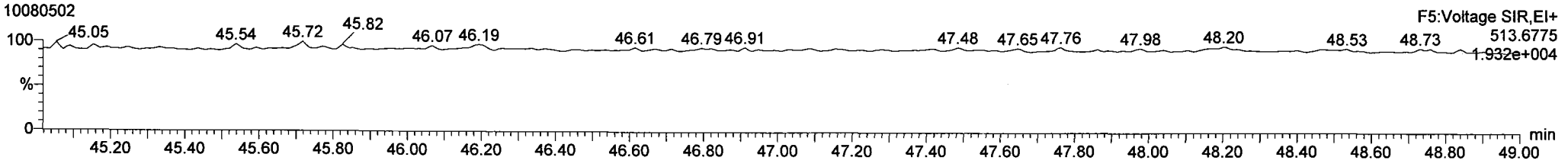
OCDF

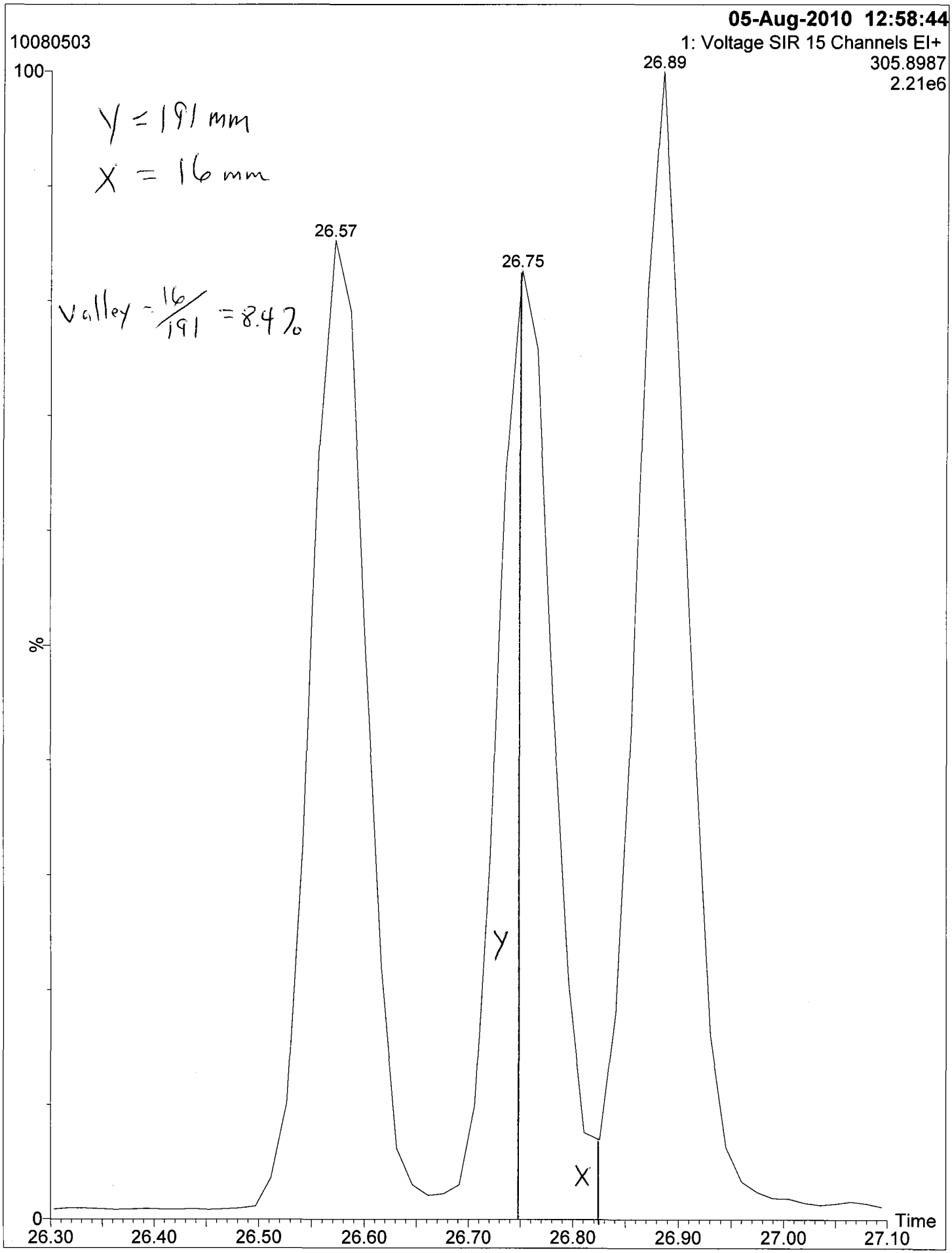


OCDF

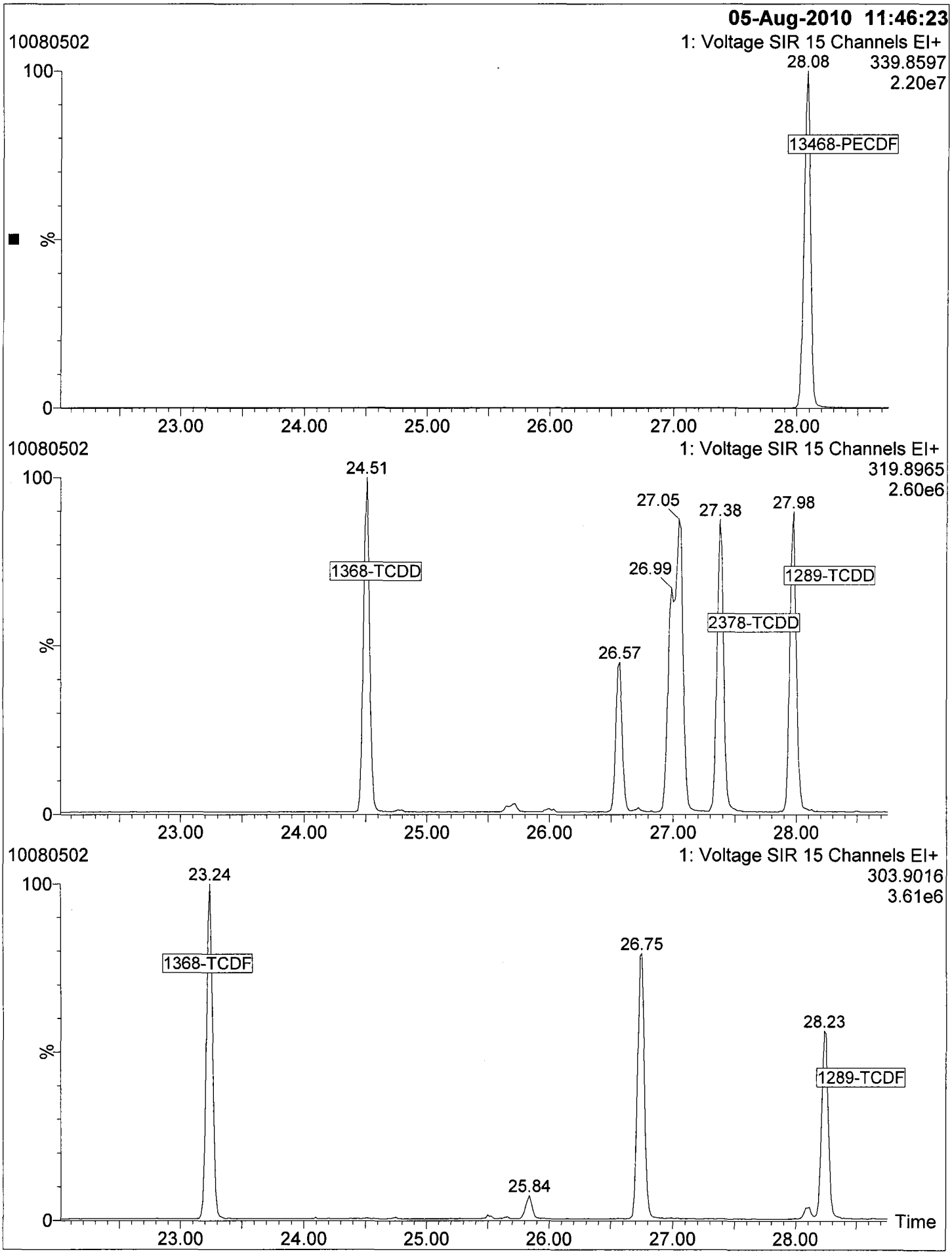


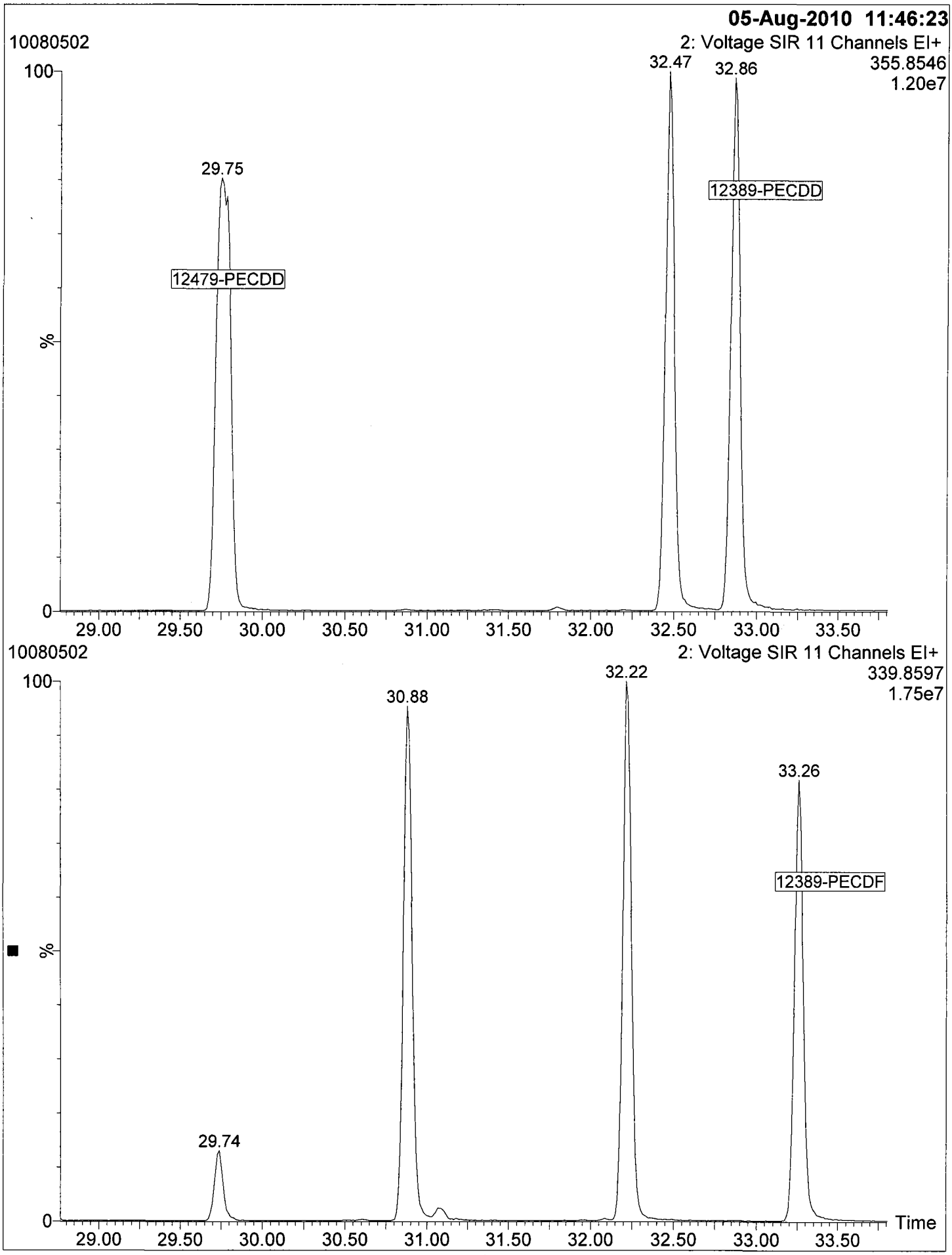
FUNCTION5 DCDPE



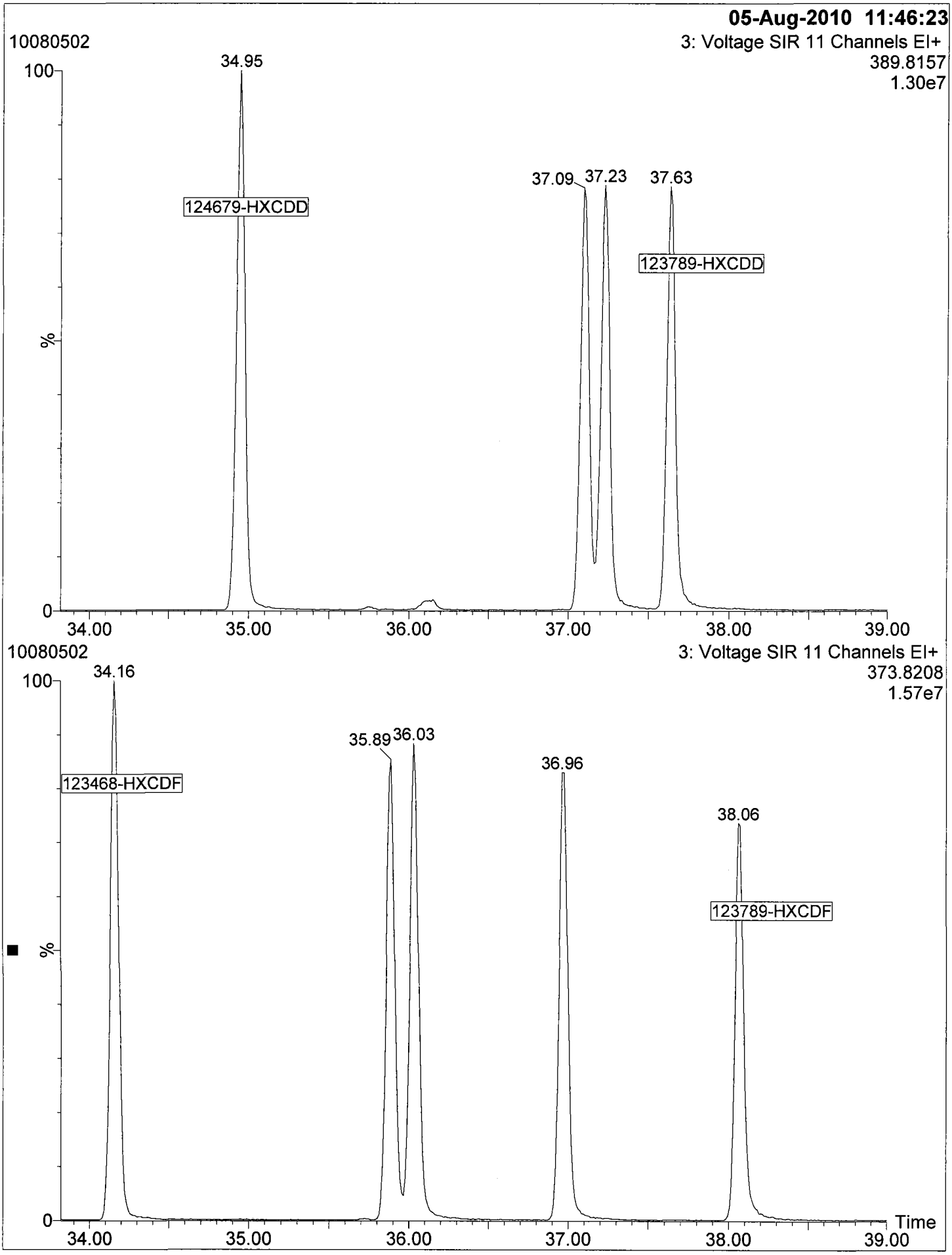

05-Aug-2010 12:58:44
10080503
1: Voltage SIR 15 Channels EI+
305.8987
2.21e6
100
%
0
26.89
26.57
26.75
y = 191 mm
x = 16 mm
valley = 16/191 = 8.4%
y
x
Time
26.30
26.40
26.50
26.60
26.70
26.80
26.90
27.00
27.10

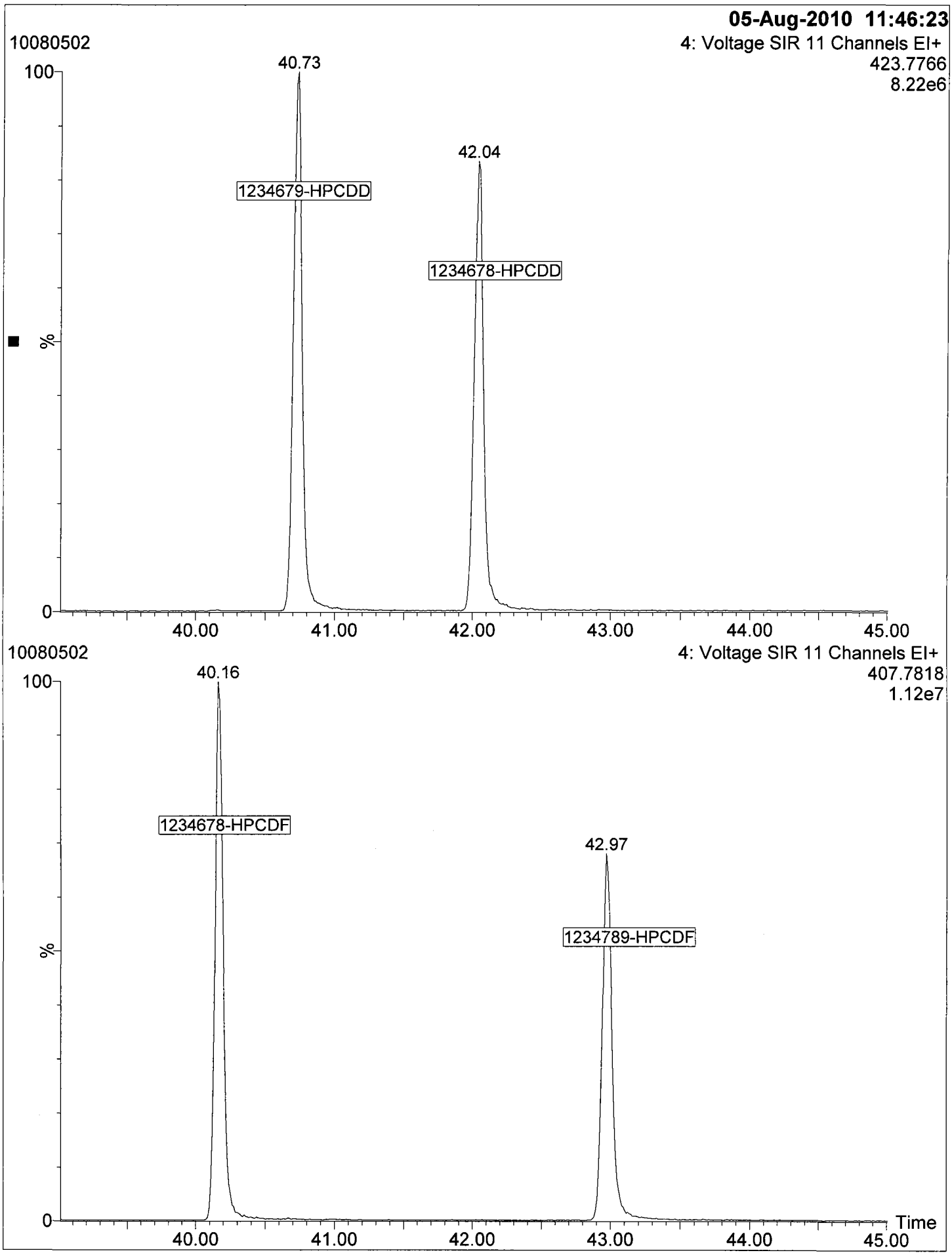
RF71 : 00640


05-Aug-2010 11:46:23
10080502
1: Voltage SIR 15 Channels EI+
28.08
339.8597
2.20e7
13468-PECDF
100
%
0
23.00
24.00
25.00
26.00
27.00
28.00
10080502
1: Voltage SIR 15 Channels EI+
319.8965
2.60e6
24.51
27.05
27.38
27.98
1368-TCDD
26.99
1289-TCDD
2378-TCDD
26.57
10080502
1: Voltage SIR 15 Channels EI+
303.9016
3.61e6
23.24
1368-TCDF
26.75
28.23
1289-TCDF
25.84
Time


05-Aug-2010 11:46:23
10080502
2: Voltage SIR 11 Channels EI+
355.8546
1.20e7
100
%
0
29.75
12479-PECDD
32.47
32.86
12389-PECDD
29.00
29.50
30.00
30.50
31.00
31.50
32.00
32.50
33.00
33.50
10080502
2: Voltage SIR 11 Channels EI+
339.8597
1.75e7
100
%
0
30.88
32.22
33.26
12389-PECDF
29.74
Time
29.00
29.50
30.00
30.50
31.00
31.50
32.00
32.50
33.00
33.50

RF71:00642


05-Aug-2010 11:46:23
10080502
3: Voltage SIR 11 Channels EI+
389.8157
1.30e7
34.95
124679-HXCDD
37.09
37.23
37.63
123789-HXCDD
100
%
0
34.00
35.00
36.00
37.00
38.00
39.00
10080502
3: Voltage SIR 11 Channels EI+
373.8208
1.57e7
34.16
123468-HXCDF
35.89
36.03
36.96
38.06
123789-HXCDF
100
%
0
Time
34.00
35.00
36.00
37.00
38.00
39.00


05-Aug-2010 11:46:23
10080502
4: Voltage SIR 11 Channels EI+
423.7766
8.22e6
40.73
42.04
1234679-HPCDD
1234678-HPCDD
100
%
0
40.00
41.00
42.00
43.00
44.00
45.00
10080502
4: Voltage SIR 11 Channels EI+
407.7818
1.12e7
40.16
42.97
1234678-HPCDF
1234789-HPCDF
100
%
0
Time
40.00
41.00
42.00
43.00
44.00
45.00

Quantity Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Lab: , Conditions: METHOD 8290A, User: VTS

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...		%Rec	1° Ratio...	1° Rati...	1° ...	EMPC
1	1	2378-TCDF	303.9016		26.74		0.871							0.77		
2	2	12378-PeCDF	339.8597		30.88		0.890							1.55		
3	3	23478-PeCDF	339.8597		32.22		0.913							1.55		
4	4	123478-HxCDF	373.8208		35.88		1.087							1.24		
5	5	234678-HxCDF	373.8208		36.96		1.066							1.24		
6	6	123678-HxCDF	373.8208		36.03		1.043							1.24		
7	7	123789-HxCDF	373.8208		38.06		1.001							1.24		
8	8	1234678-HpCDF	407.7818		40.16		1.234							1.05		
9	9	1234789-HpCDF	407.7818		42.97		1.233							1.05		
10	10	OCDF	441.7428		48.47		1.128							0.89		
11	11	2378-TCDD	319.8965		27.38		1.041							0.77		
12	12	12378-PeCDD	355.8546		32.47		0.969							1.55		
13	13	123478-HxCDD	389.8157		37.09		0.967							1.24		
14	14	123678-HxCDD	389.8157		37.23		0.893							1.24		
15	15	123789-HxCDD	389.8157		37.67		0.909							1.24		
16	16	1234678-HpCDD	423.7766		42.04		0.982							1.05		
17	17	OCDD	457.7377	48.20	48.18	4485	0.985		0.32	J	bb		0.87	0.89	NO	0.32
18	18	13C-2378-TCDF	315.9419	26.74	26.74	3339981	1.608		66.78		bb	66.8	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.88	30.88	3224029	1.281		80.96		bd	81.0	1.53	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.22	32.22	2539278	1.261		64.75		bb	64.8	1.56	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.88	35.88	1861039	1.131		71.44		bd	71.4	0.52	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.03	36.03	2469498	1.260		85.07		db	85.1	0.52	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.96	36.96	1974959	1.193		71.86		bb	71.9	0.52	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.06	38.06	1354686	1.097		53.61		bb	53.6	0.53	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.16	40.16	1384199	0.934		64.32		bb	64.3	0.44	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.97	42.97	999730	0.760		57.09		bb	57.1	0.44	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.56	26.54	3109649	1.000		100.00		bb	100.0	0.79	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.38	27.38	2733433	1.041		84.46		bb	84.5	0.77	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.47	32.47	2230209	0.847		84.69		bb	84.7	1.56	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.09	37.09	2124479	0.965		95.51		bd	95.5	1.26	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.23	37.23	2285536	1.072		92.56		db	92.6	1.27	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.04	42.04	1677472	0.806		90.33		bb	90.3	1.07	1.05	NO	
33	33	13C-OCDD	469.7779	48.18	48.18	2811052	0.814		149.78		bb	74.9	0.89	0.89	NO	

RF71MB 15

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

RF71 : 99515

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Lab: , Conditions: METHOD 8290A, User: VTS

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio	1° Rati...	1°	EMPC
34	34	13C-123789-HxCDD	401.8559	37.63	37.62	2304197	1.000		100.00	bb	100.0	1.24	1.24	NO	
35	35	Total-tetrafurans	303.9016		0.00		0.871								
36	36	Total-penta1	339.8597		28.08		1.141						1.55		
37	37	Total-pentafurans	339.8597		0.00		0.901								
38	38	Total-hexafurans	373.8208		0.00		1.049								
39	39	Total-heptafurans	407.7818		0.00		1.234								
40	40	Total-Furans	303.9016		0.00		1.055								
41	41	Total-tetradioxins	319.8965		0.00		1.041								
42	42	Total-pentadioxins	355.8546		0.00		0.969								
43	43	Total-hexadioxins	389.8157		0.00		0.923								
44	44	Total-heptadioxins	423.7766		0.00		0.982								
45	45	Total-Dioxins	319.8965		0.00		0.964		0.32						
46	46	Total-TEQ	319.8965		0.00				0.32						
47	47	37CL-2378-TCDD	327.8847	27.39	27.39	1341843	1.166		37.01						
48	48	FUNCTION1 PFK	330.9792		0.00										
49	49	FUNCTION2 PFK	366.9792		0.00				0.00						
50	50	FUNCTION3 PFK	380.9760		0.00				0.00						
51	51	FUNCTION4 PFK	430.9728		0.00										
52	52	FUNCTION5 PFK	480.9696		0.00										
53	53	FUNCTION1 HXCDPE	375.8364		0.00										
54	54	FUNCTION1 HPCDPE	409.7974		0.00										
55	55	FUNCTION2 HPCDPE	409.7974		0.00										
56	56	FUNCTION3 OCDPE	445.7555		0.00										
57	57	FUNCTION4 NCDPE	479.7165		0.00										
58	58	FUNCTION5 DCDPE	513.6775		0.00										

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , User: VTS

TF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

PF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

HF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

HPF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

Furans,TF,PP,PF,HF,HPF,OF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

TD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

PD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

HD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

HPD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1													

Dioxins,TD,PD,HD,HPD,OD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1	17	OCDD	457.7377	48.20	4484.506	0.985		0.32	0.32	0.87	0.89	NO	37.0

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , User: VTS

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	27.02	0.000							0.9
2	48 FUNCTION1 PFK	330.9792	26.81	0.000							1.9
3	48 FUNCTION1 PFK	330.9792	26.62	0.000							1.9
4	48 FUNCTION1 PFK	330.9792	26.29	0.000							2.1
5	48 FUNCTION1 PFK	330.9792	26.21	0.000							2.0
6	48 FUNCTION1 PFK	330.9792	26.08	0.000							1.5
7	48 FUNCTION1 PFK	330.9792	24.96	0.000							1.2
8	48 FUNCTION1 PFK	330.9792	23.82	0.000							1.7
9	48 FUNCTION1 PFK	330.9792	23.66	0.000							1.3
10	48 FUNCTION1 PFK	330.9792	23.49	0.000							1.8
11	48 FUNCTION1 PFK	330.9792	23.25	0.000							1.0
12	48 FUNCTION1 PFK	330.9792	22.31	0.000							2.2
13	48 FUNCTION1 PFK	330.9792	22.15	0.000							2.1
14	48 FUNCTION1 PFK	330.9792	28.65	0.000							1.5
15	48 FUNCTION1 PFK	330.9792	28.11	0.000							0.8
16	48 FUNCTION1 PFK	330.9792	27.57	0.000							0.9
17	48 FUNCTION1 PFK	330.9792	27.36	0.000							0.5
18	48 FUNCTION1 PFK	330.9792	27.30	0.000							1.1

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PFK2

	# Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1	49 FUNCTION2 PFK	366.9792	30.08	0.000		0.00					1.9
2	49 FUNCTION2 PFK	366.9792	30.00	0.000		0.00					1.8
3	49 FUNCTION2 PFK	366.9792	29.79	0.000		0.00					0.4
4	49 FUNCTION2 PFK	366.9792	29.73	0.000		0.00					0.7
5	49 FUNCTION2 PFK	366.9792	29.65	0.000		0.00					0.6
6	49 FUNCTION2 PFK	366.9792	29.62	0.000		0.00					0.9
7	49 FUNCTION2 PFK	366.9792	29.37	0.000		0.00					1.7
8	49 FUNCTION2 PFK	366.9792	29.21	0.000		0.00					1.8
9	49 FUNCTION2 PFK	366.9792	29.07	0.000		0.00					0.7
10	49 FUNCTION2 PFK	366.9792	28.85	0.000		0.00					1.0
11	49 FUNCTION2 PFK	366.9792	32.62	0.000		0.00					1.3
12	49 FUNCTION2 PFK	366.9792	32.46	0.000		0.00					0.4
13	49 FUNCTION2 PFK	366.9792	32.32	0.000		0.00					1.3
14	49 FUNCTION2 PFK	366.9792	32.24	0.000		0.00					2.0
15	49 FUNCTION2 PFK	366.9792	31.93	0.000		0.00					0.8
16	49 FUNCTION2 PFK	366.9792	31.83	0.000		0.00					1.0
17	49 FUNCTION2 PFK	366.9792	31.32	0.000		0.00					1.5
18	49 FUNCTION2 PFK	366.9792	31.27	0.000		0.00					1.6
19	49 FUNCTION2 PFK	366.9792	31.21	0.000		0.00					1.2
20	49 FUNCTION2 PFK	366.9792	30.95	0.000		0.00					0.9
21	49 FUNCTION2 PFK	366.9792	30.86	0.000		0.00					0.6
22	49 FUNCTION2 PFK	366.9792	30.69	0.000		0.00					0.7
23	49 FUNCTION2 PFK	366.9792	30.63	0.000		0.00					1.6
24	49 FUNCTION2 PFK	366.9792	30.45	0.000		0.00					1.8
25	49 FUNCTION2 PFK	366.9792	30.27	0.000		0.00					1.5
26	49 FUNCTION2 PFK	366.9792	30.13	0.000		0.00					2.1
27	49 FUNCTION2 PFK	366.9792	33.65	0.000		0.00					0.4
28	49 FUNCTION2 PFK	366.9792	33.53	0.000		0.00					1.2
29	49 FUNCTION2 PFK	366.9792	33.41	0.000		0.00					0.7
30	49 FUNCTION2 PFK	366.9792	33.20	0.000		0.00					1.3
31	49 FUNCTION2 PFK	366.9792	33.07	0.000		0.00					1.0
32	49 FUNCTION2 PFK	366.9792	32.98	0.000		0.00					0.8
33	49 FUNCTION2 PFK	366.9792	32.94	0.000		0.00					1.5
34	49 FUNCTION2 PFK	366.9792	32.91	0.000		0.00					2.2
35	49 FUNCTION2 PFK	366.9792	32.84	0.000		0.00					1.5
36	49 FUNCTION2 PFK	366.9792	32.68	0.000		0.00					1.5

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PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1	50 FUNCTION3 PFK	380.9760	34.52	0.000		0.00					1.0
2	50 FUNCTION3 PFK	380.9760	34.37	0.000		0.00					1.4
3	50 FUNCTION3 PFK	380.9760	34.23	0.000		0.00					0.9
4	50 FUNCTION3 PFK	380.9760	34.12	0.000		0.00					1.5
5	50 FUNCTION3 PFK	380.9760	34.01	0.000		0.00					2.6
6	50 FUNCTION3 PFK	380.9760	37.24	0.000		0.00					1.0
7	50 FUNCTION3 PFK	380.9760	36.85	0.000		0.00					1.5
8	50 FUNCTION3 PFK	380.9760	36.79	0.000		0.00					1.9
9	50 FUNCTION3 PFK	380.9760	36.69	0.000		0.00					1.4
10	50 FUNCTION3 PFK	380.9760	36.49	0.000		0.00					1.3
11	50 FUNCTION3 PFK	380.9760	36.17	0.000		0.00					0.8
12	50 FUNCTION3 PFK	380.9760	35.76	0.000		0.00					0.9
13	50 FUNCTION3 PFK	380.9760	35.69	0.000		0.00					1.1
14	50 FUNCTION3 PFK	380.9760	35.66	0.000		0.00					1.2
15	50 FUNCTION3 PFK	380.9760	35.42	0.000		0.00					1.2
16	50 FUNCTION3 PFK	380.9760	35.17	0.000		0.00					1.6
17	50 FUNCTION3 PFK	380.9760	34.98	0.000		0.00					1.5
18	50 FUNCTION3 PFK	380.9760	34.92	0.000		0.00					1.6
19	50 FUNCTION3 PFK	380.9760	34.83	0.000		0.00					0.9
20	50 FUNCTION3 PFK	380.9760	34.72	0.000		0.00					0.6
21	50 FUNCTION3 PFK	380.9760	34.64	0.000		0.00					2.5
22	50 FUNCTION3 PFK	380.9760	38.90	0.000		0.00					2.0
23	50 FUNCTION3 PFK	380.9760	38.52	0.000		0.00					0.6
24	50 FUNCTION3 PFK	380.9760	38.30	0.000		0.00					1.0
25	50 FUNCTION3 PFK	380.9760	38.16	0.000		0.00					0.7
26	50 FUNCTION3 PFK	380.9760	37.61	0.000		0.00					1.2
27	50 FUNCTION3 PFK	380.9760	37.57	0.000		0.00					0.6
28	50 FUNCTION3 PFK	380.9760	37.53	0.000		0.00					0.7
29	50 FUNCTION3 PFK	380.9760	37.39	0.000		0.00					1.9

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1	51 FUNCTION4 PFK	430.9728	41.98	0.000							1.3
2	51 FUNCTION4 PFK	430.9728	41.01	0.000							1.2
3	51 FUNCTION4 PFK	430.9728	40.60	0.000							0.8
4	51 FUNCTION4 PFK	430.9728	40.19	0.000							0.5
5	51 FUNCTION4 PFK	430.9728	39.89	0.000							0.8
6	51 FUNCTION4 PFK	430.9728	39.35	0.000							1.4
7	51 FUNCTION4 PFK	430.9728	39.23	0.000							0.9
8	51 FUNCTION4 PFK	430.9728	44.96	0.000							1.1
9	51 FUNCTION4 PFK	430.9728	44.42	0.000							0.8
10	51 FUNCTION4 PFK	430.9728	43.84	0.000							1.7
11	51 FUNCTION4 PFK	430.9728	43.43	0.000							1.5
12	51 FUNCTION4 PFK	430.9728	43.33	0.000							1.5
13	51 FUNCTION4 PFK	430.9728	43.30	0.000							1.3
14	51 FUNCTION4 PFK	430.9728	43.27	0.000							0.9
15	51 FUNCTION4 PFK	430.9728	42.65	0.000							0.6

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PFK5

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52	FUNCTION5 PFK	480.9696	47.34	0.000								0.5
2	52	FUNCTION5 PFK	480.9696	47.22	0.000								1.1
3	52	FUNCTION5 PFK	480.9696	46.51	0.000								0.5
4	52	FUNCTION5 PFK	480.9696	46.34	0.000								1.2
5	52	FUNCTION5 PFK	480.9696	46.22	0.000								1.2
6	52	FUNCTION5 PFK	480.9696	45.32	0.000								1.3
7	52	FUNCTION5 PFK	480.9696	45.22	0.000								0.5
8	52	FUNCTION5 PFK	480.9696	48.82	0.000								0.8
9	52	FUNCTION5 PFK	480.9696	48.71	0.000								1.7
10	52	FUNCTION5 PFK	480.9696	48.65	0.000								1.5
11	52	FUNCTION5 PFK	480.9696	48.44	0.000								1.9
12	52	FUNCTION5 PFK	480.9696	48.36	0.000								1.8
13	52	FUNCTION5 PFK	480.9696	48.32	0.000								1.4
14	52	FUNCTION5 PFK	480.9696	47.89	0.000								1.6
15	52	FUNCTION5 PFK	480.9696	47.75	0.000								0.6
16	52	FUNCTION5 PFK	480.9696	47.46	0.000								1.2
17	52	FUNCTION5 PFK	480.9696	47.42	0.000								0.9

ETHERS1

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1													

ETHERS2

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1													

ETHERS3

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1													

ETHERS4

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1													

ETHERS5

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1													

ETHERS6

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1													

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
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Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

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Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

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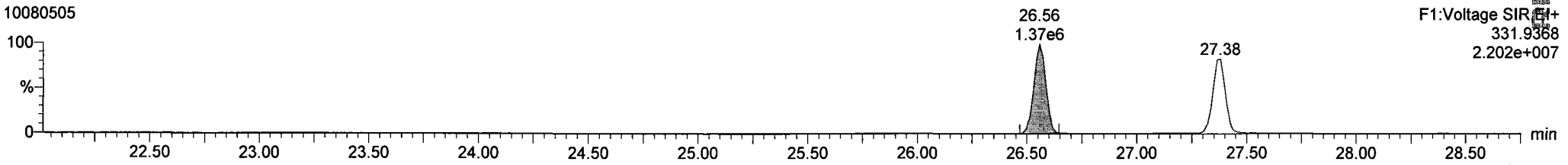

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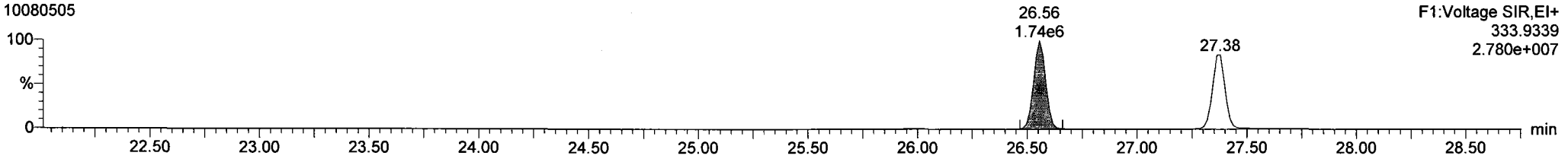

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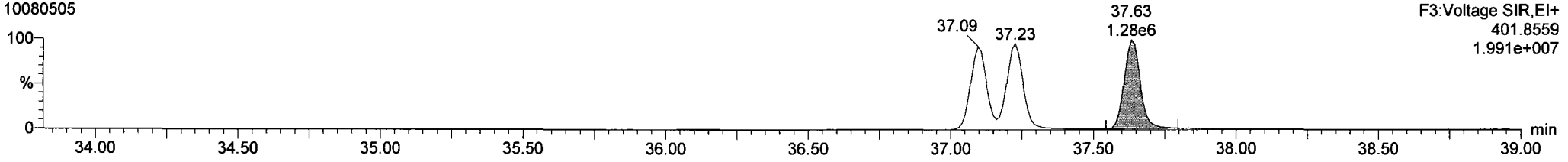

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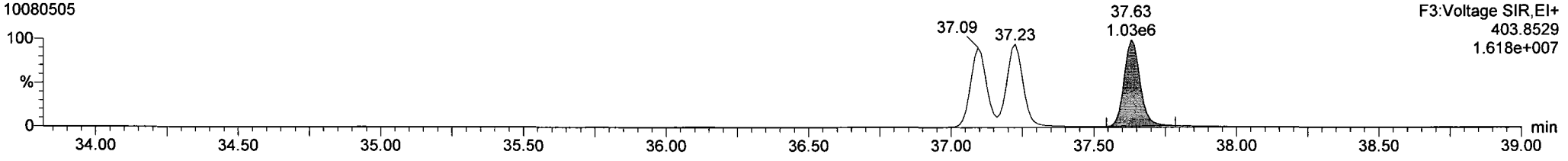

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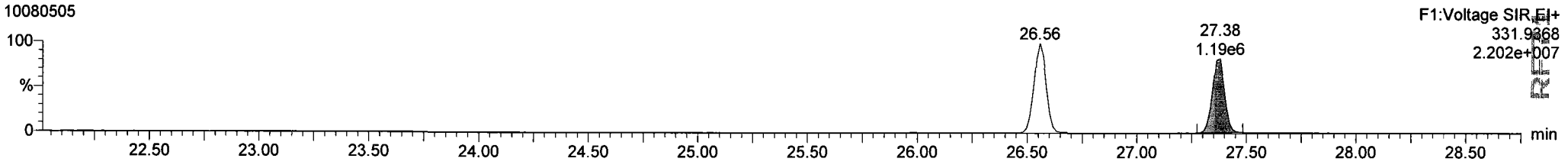
RF71MB 6969.59

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-2378-TCDD



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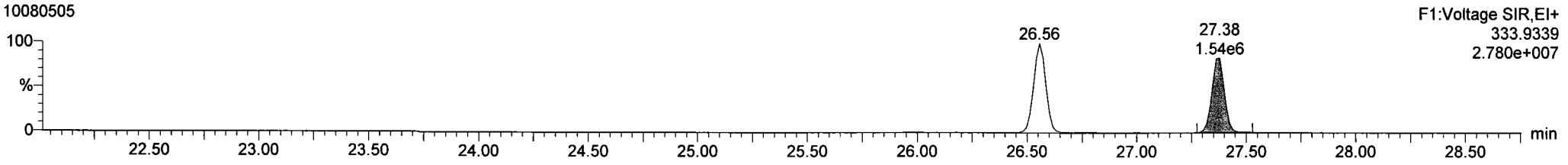

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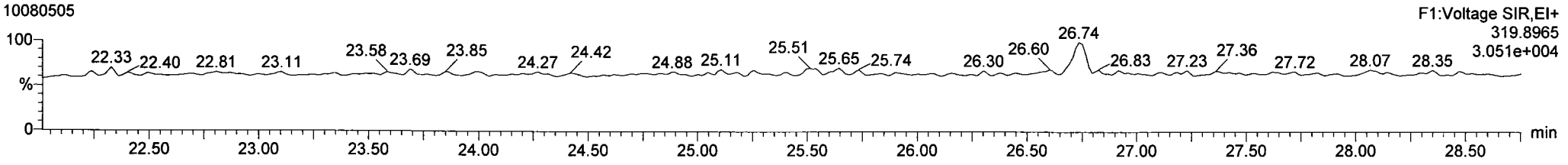

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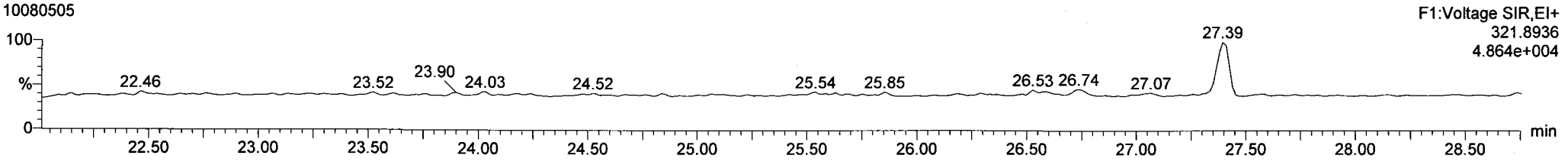

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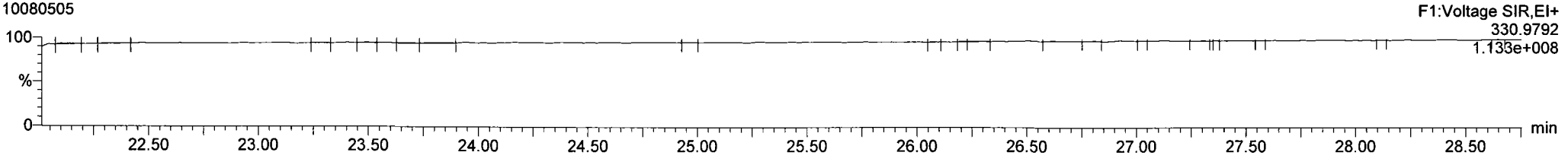

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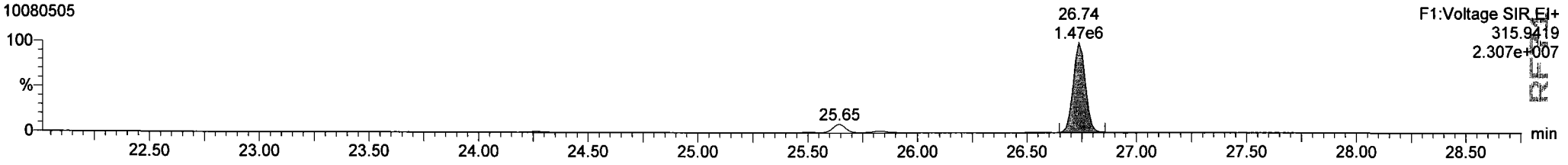
RF71MB 6665

13C-2378-TCDF



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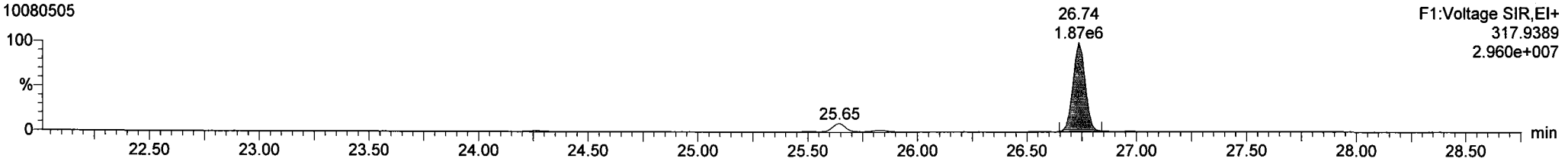

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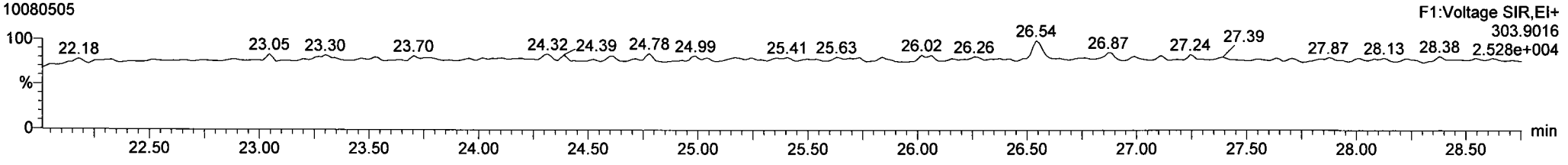

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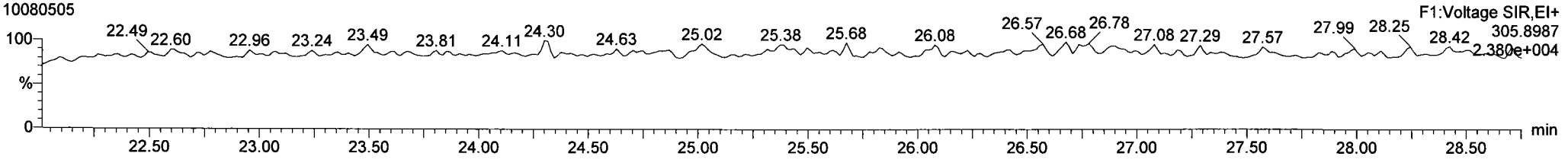
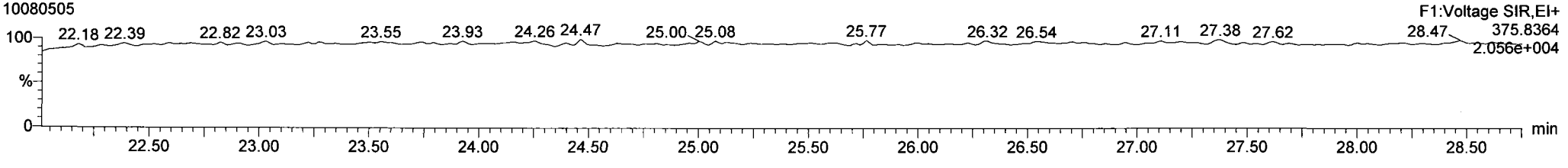


FUNCTION1 HXCDPE



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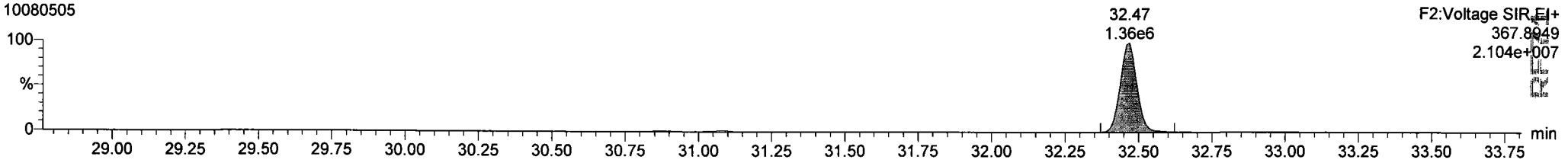
Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-12378-PeCDD



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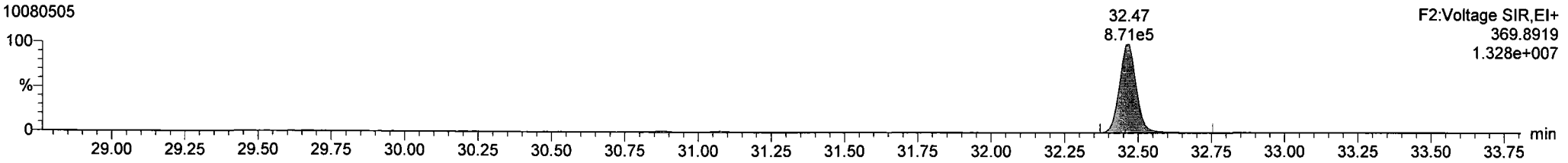

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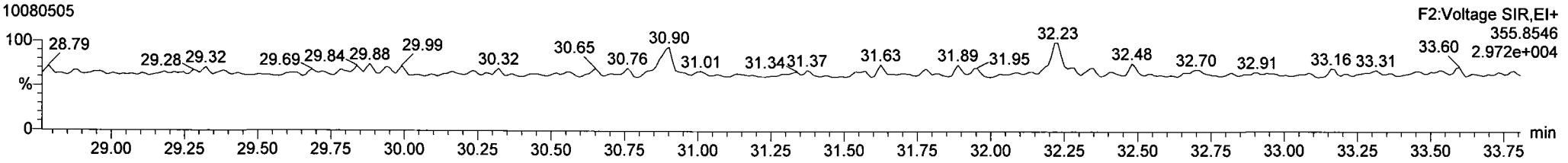

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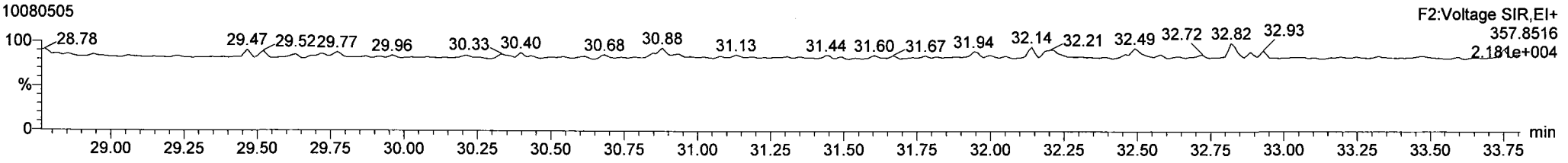
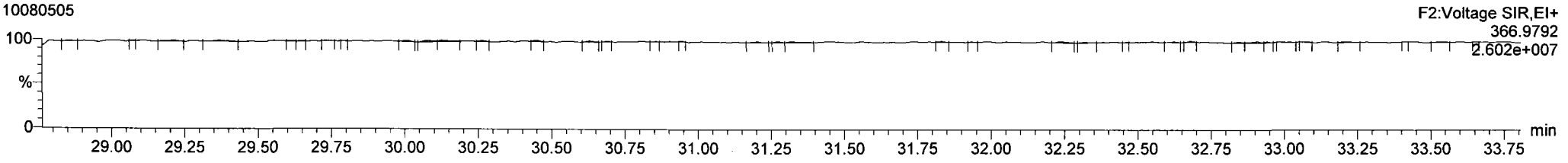


FUNCTION2 PFK



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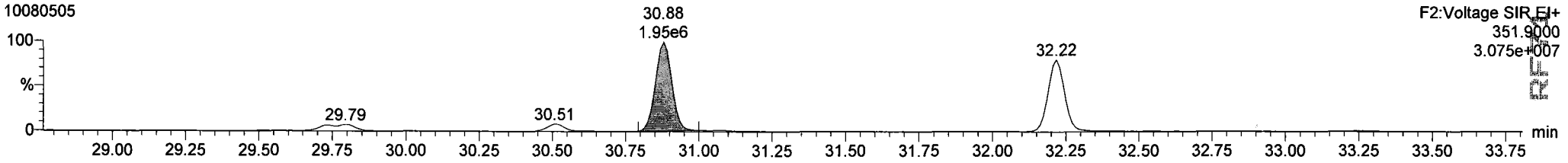
13C-12378-PeCDF



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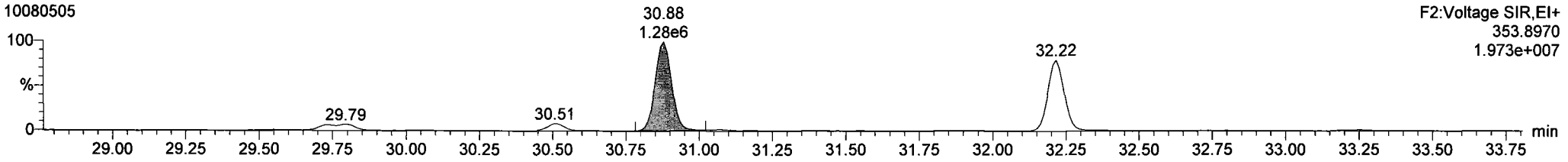
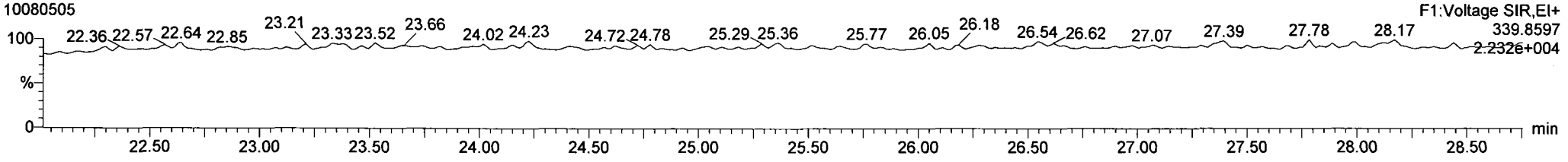


Total-penta1



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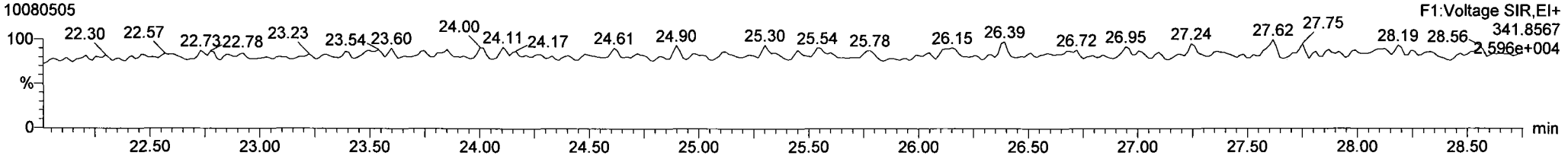
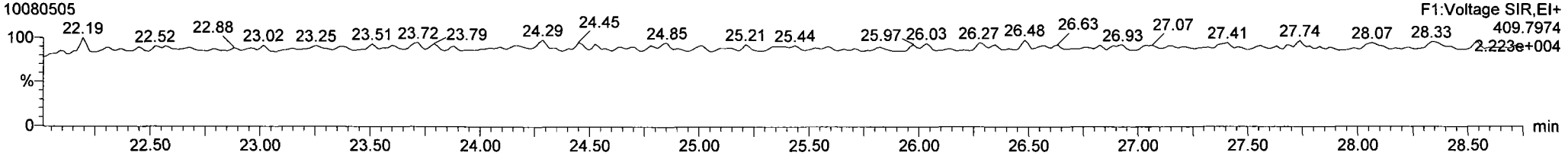


FUNCTION1 HPCDPE



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Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
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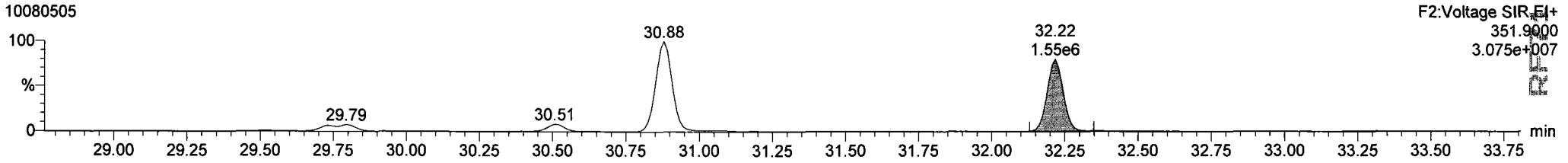
RF71MB 6965.D

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-23478-PeCDF



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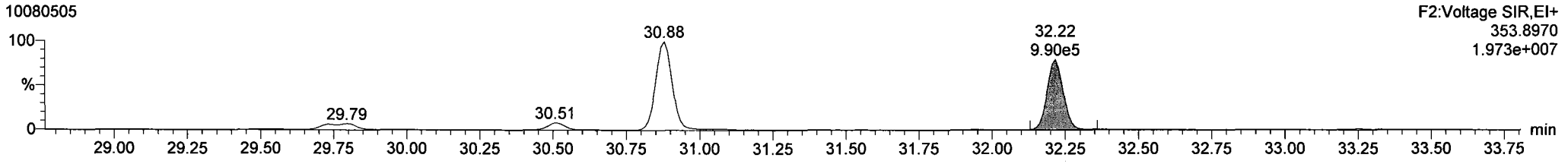

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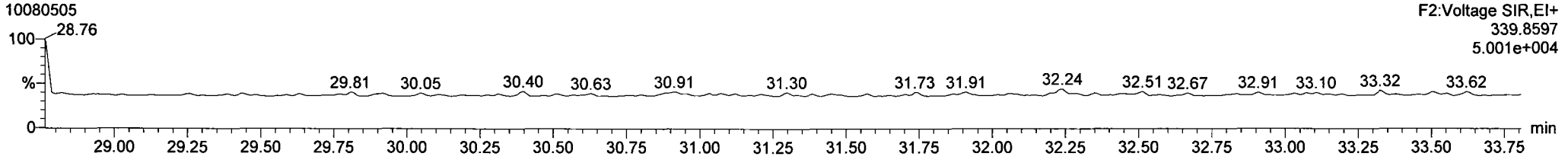
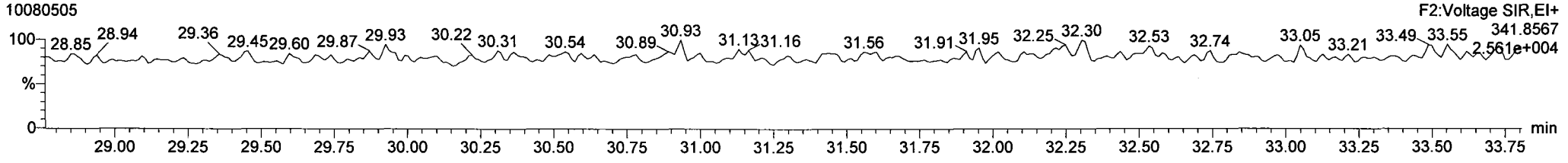


Total-pentafurans



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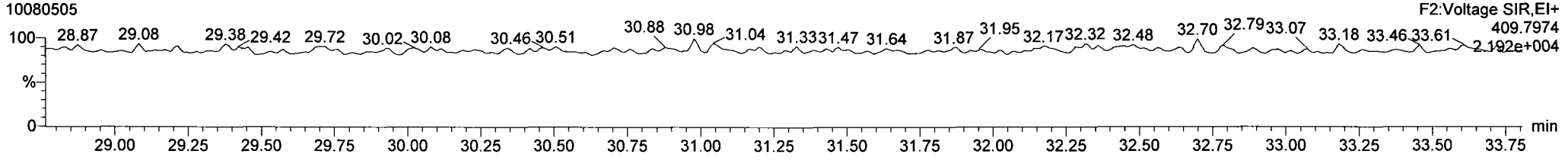

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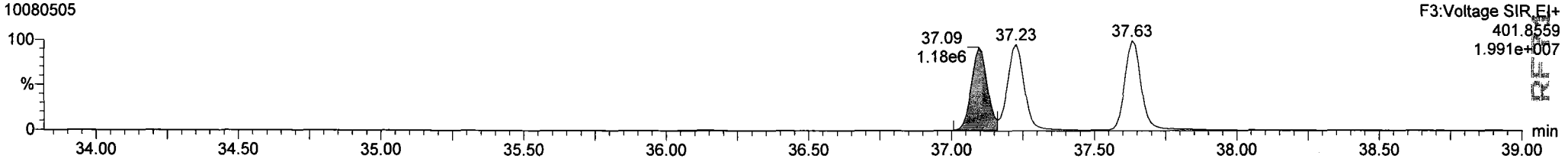
Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-123478-HxCDD



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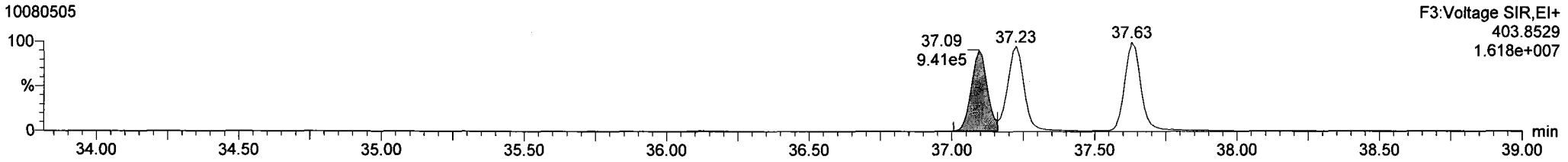
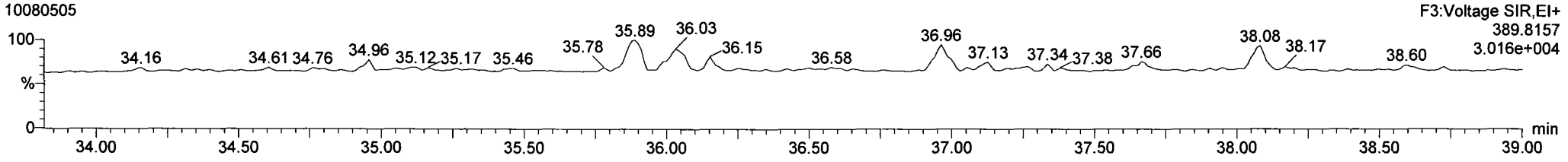
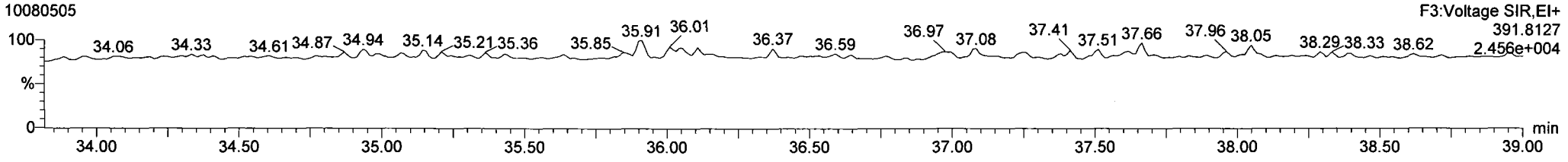


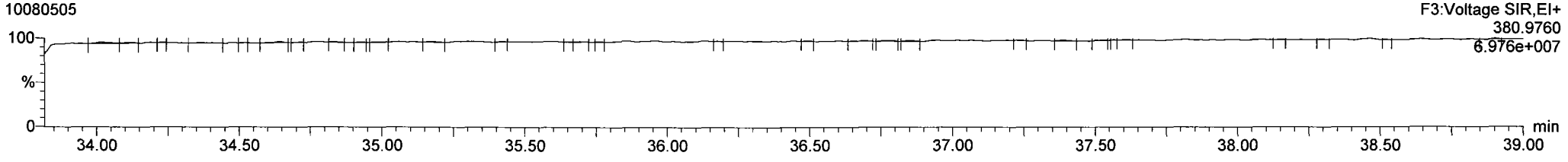
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



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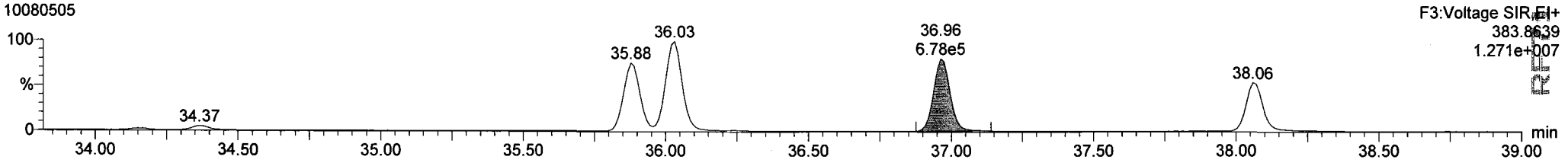
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-234678-HxCDF



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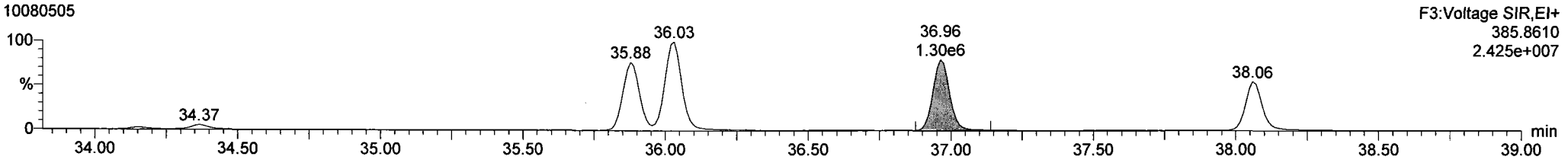
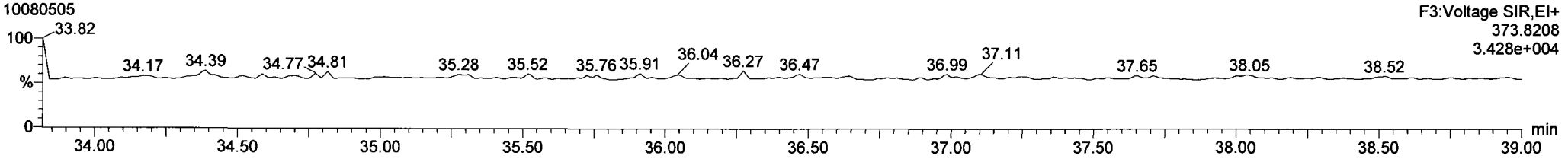
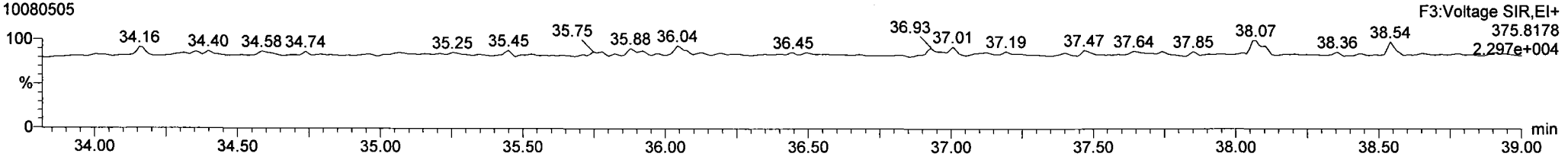


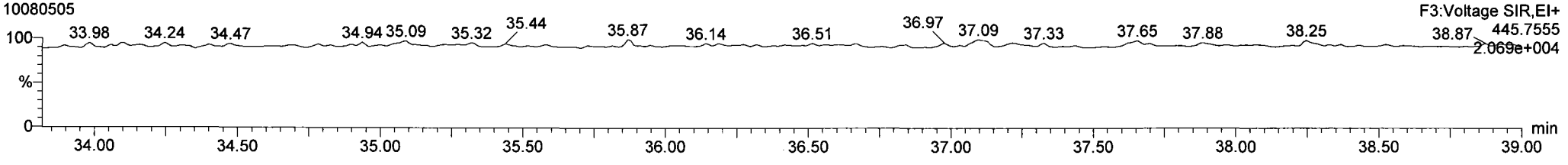
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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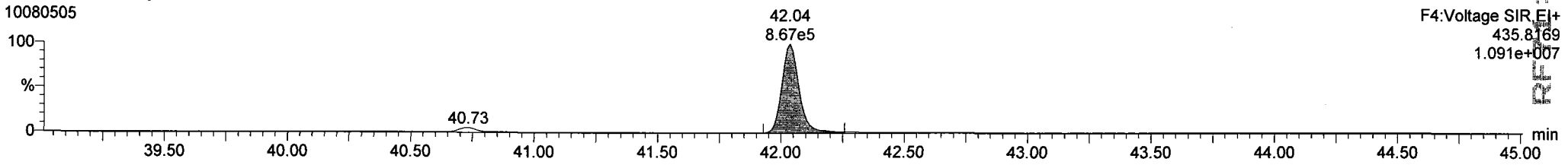
Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-1234678-HpCDD



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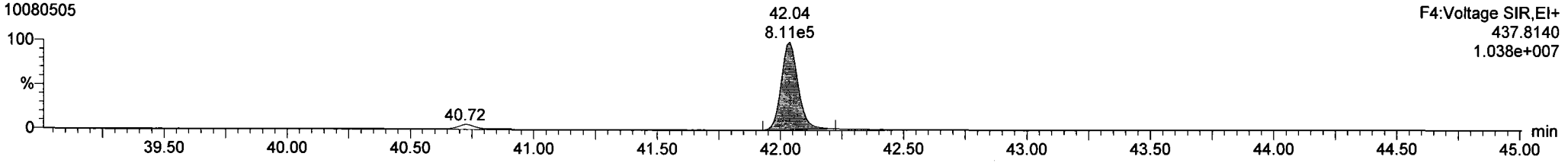
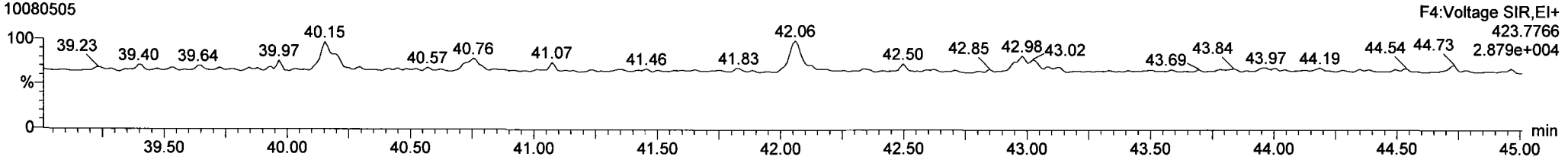
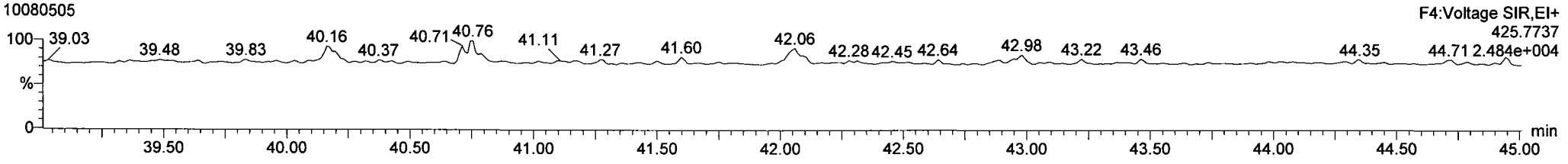


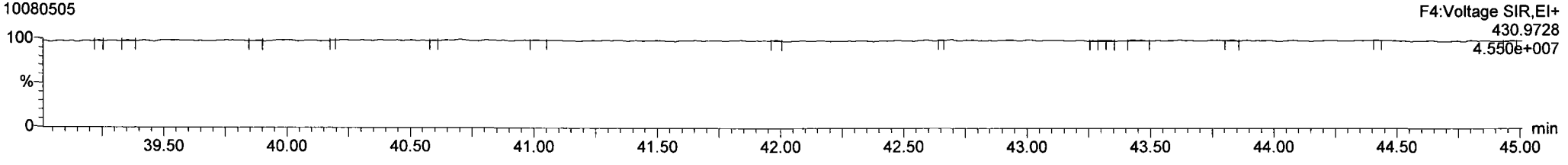
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



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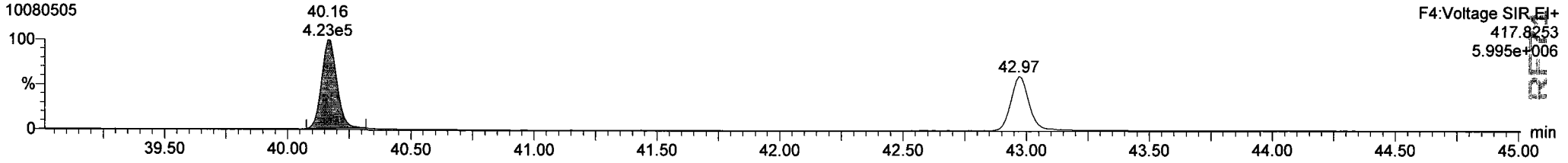
Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-1234678-HpCDF



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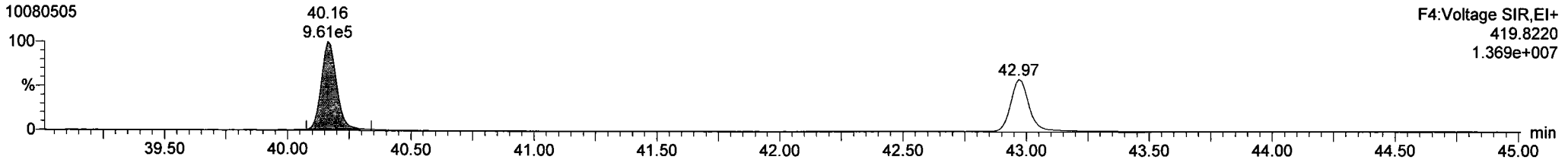
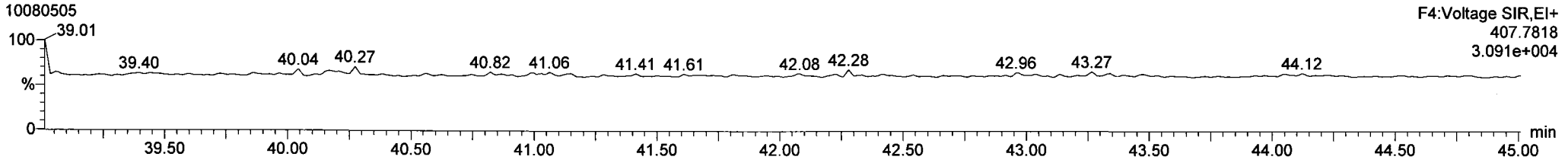
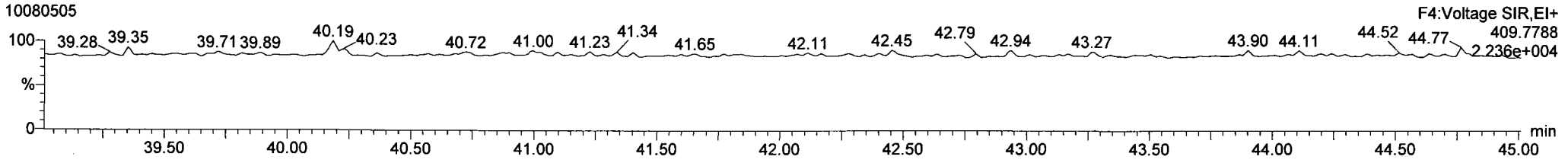


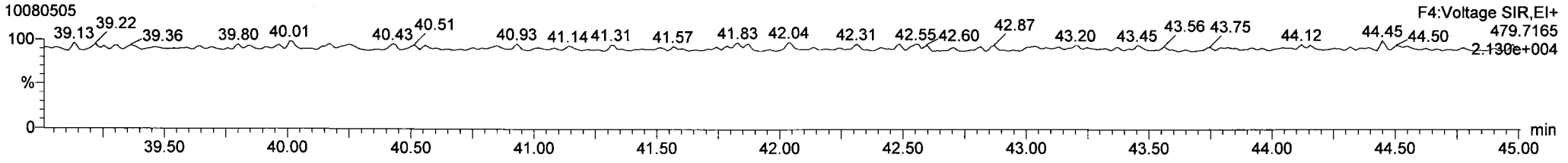
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



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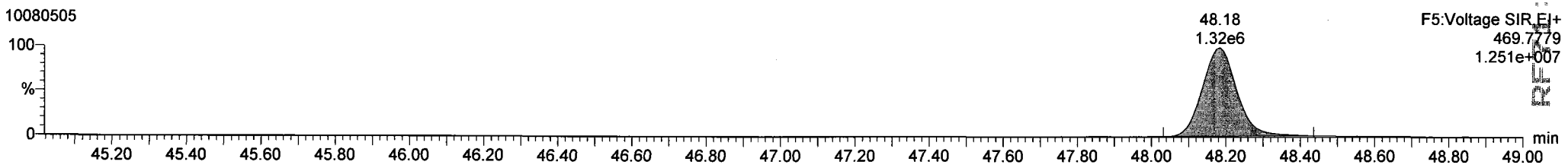
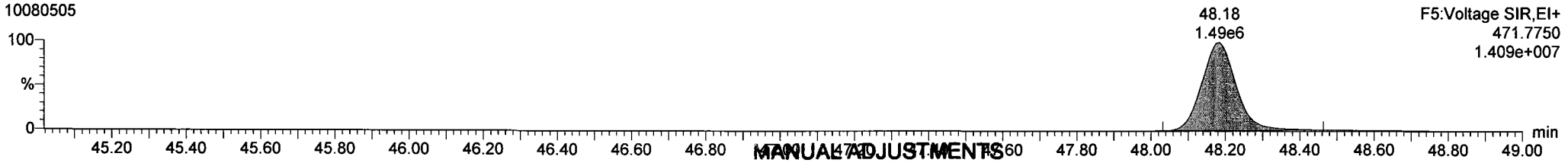
RF71MB 66662

Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

13C-OCDD



13C-OCDD

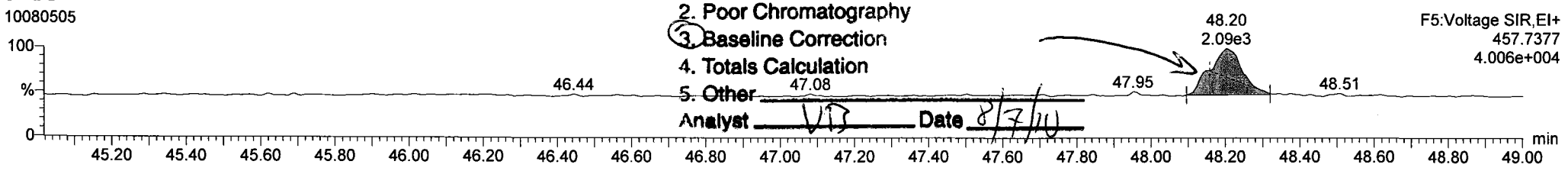


MANUAL ADJUSTMENTS

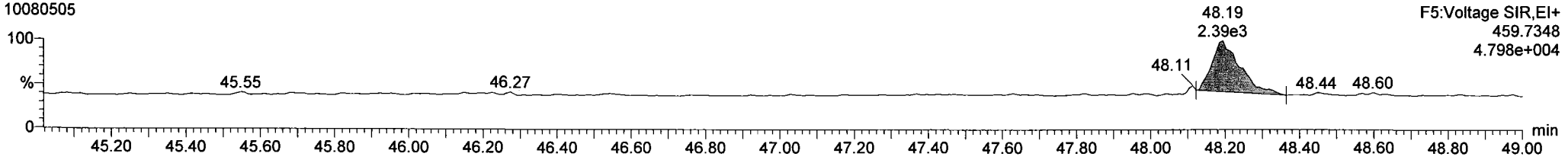
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst VT Date 8/7/10

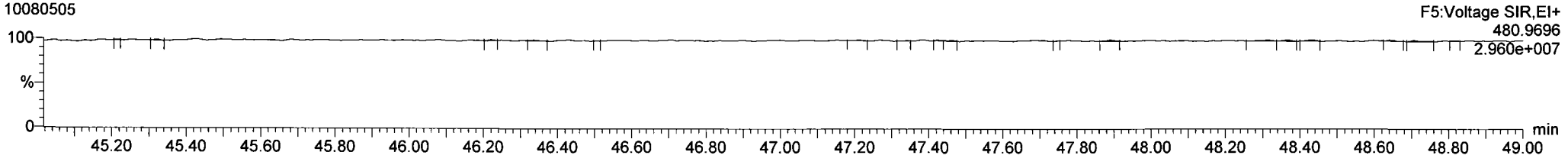
OCDD



OCDD



FUNCTION5 PFK



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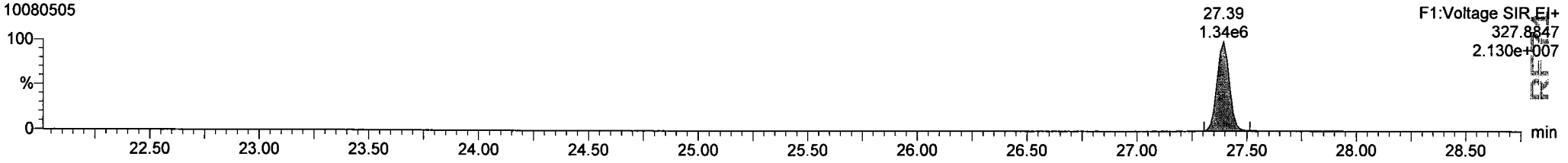
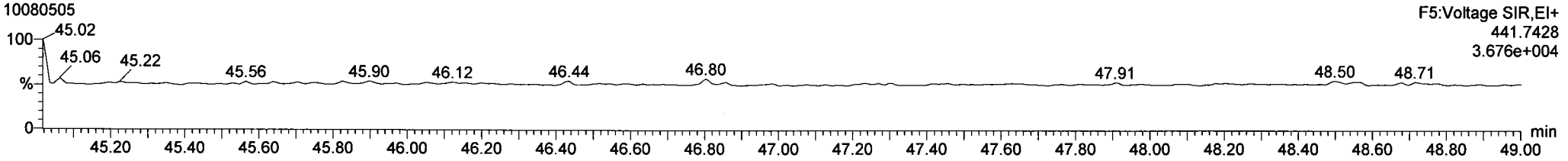
Name: 10080505, Date: 05-Aug-2010, Time: 14:43:35, ID: RF71MB, Description: , Lab: , User: VTS

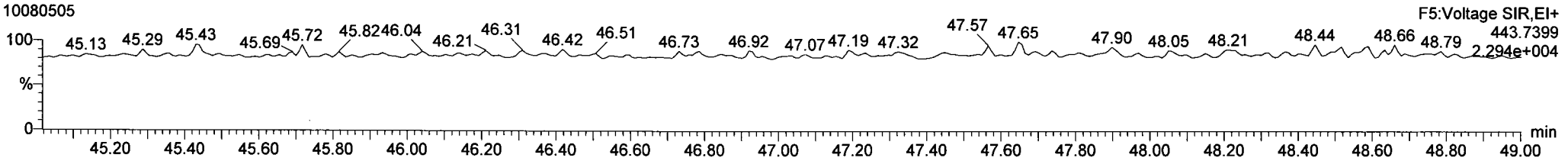
37CL-2378-TCDD



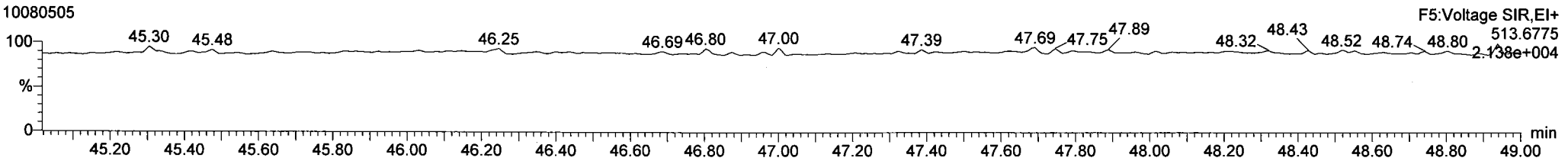
OCDF



OCDF



FUNCTION5 DCDPE



RF71MB 10080505

Solid (ng/kg)	Noise 1	Noise 2	RRF Mean	Ht 1	Ht 2	Calculated EDL
2378-TCDD	21357	48640	1.041	18172344	23249066	0.406
12378-PeCDD	29720	21810	0.969	20961614	13249060	0.389
123478-HxCDD	30160	24560	0.967	18288336	14613522	0.430
123678-HxCDD	30160	24560	0.893	19035894	15276261	0.446
123789-HxCDD	30160	24560	0.909	18288336	14613522	0.457
1234678-HpCDD	28790	24840	0.982	10876546	10308055	0.644
OCDD	DETECT					#VALUE!
2378-TCDF	25280	23800	0.871	22975608	29448462	0.269
12378-PeCDF	25005	25610	0.89	30571410	19694782	0.283
23478-PeCDF	25005	25610	0.913	24504598	15607987	0.346
123478-HxCDF	20568	22970	1.087	9599889	18578612	0.355
234678-HxCDF	20568	22970	1.066	10219974	19367972	0.345
123678-HxCDF	20568	22970	1.043	12611247	24075438	0.284
123789-HxCDF	20568	22970	1.001	6833069	13290437	0.540
1234678-HpCDF	21637	22360	1.234	5943567	13608082	0.456
1234789-HpCDF	21637	22360	1.233	3631009	8090984	0.761
OCDF	22056	22940	1.128	12437947	14024883	0.754

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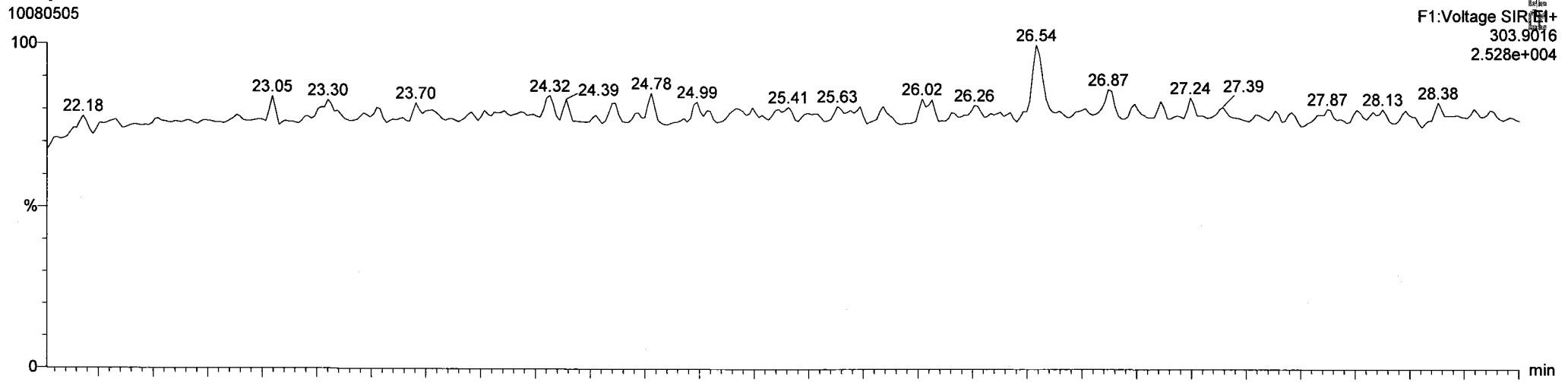
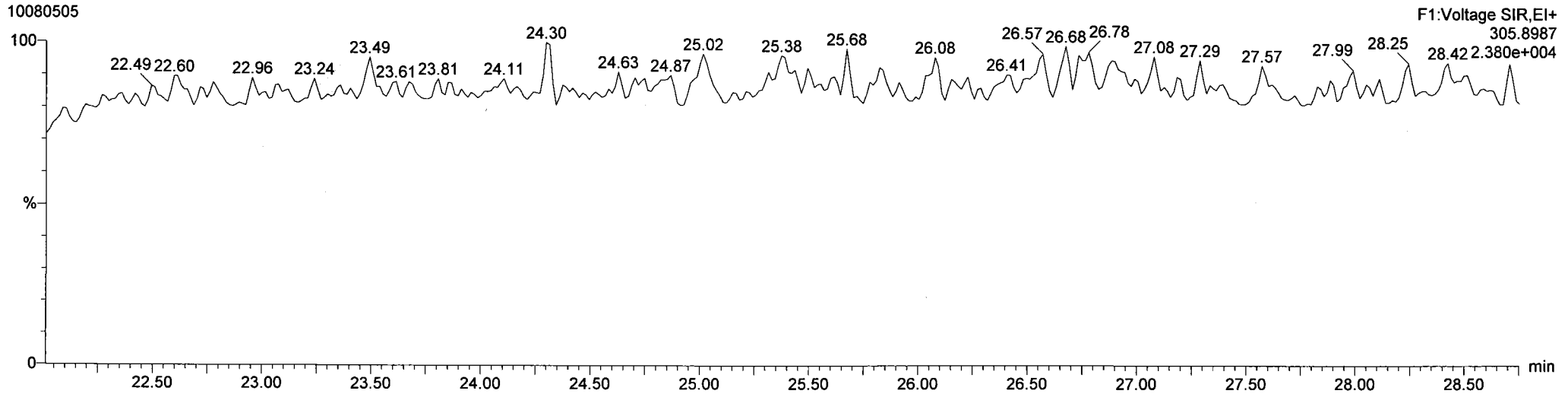
Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Compound Name: 2378-TCDF

Sample Name: 10080505



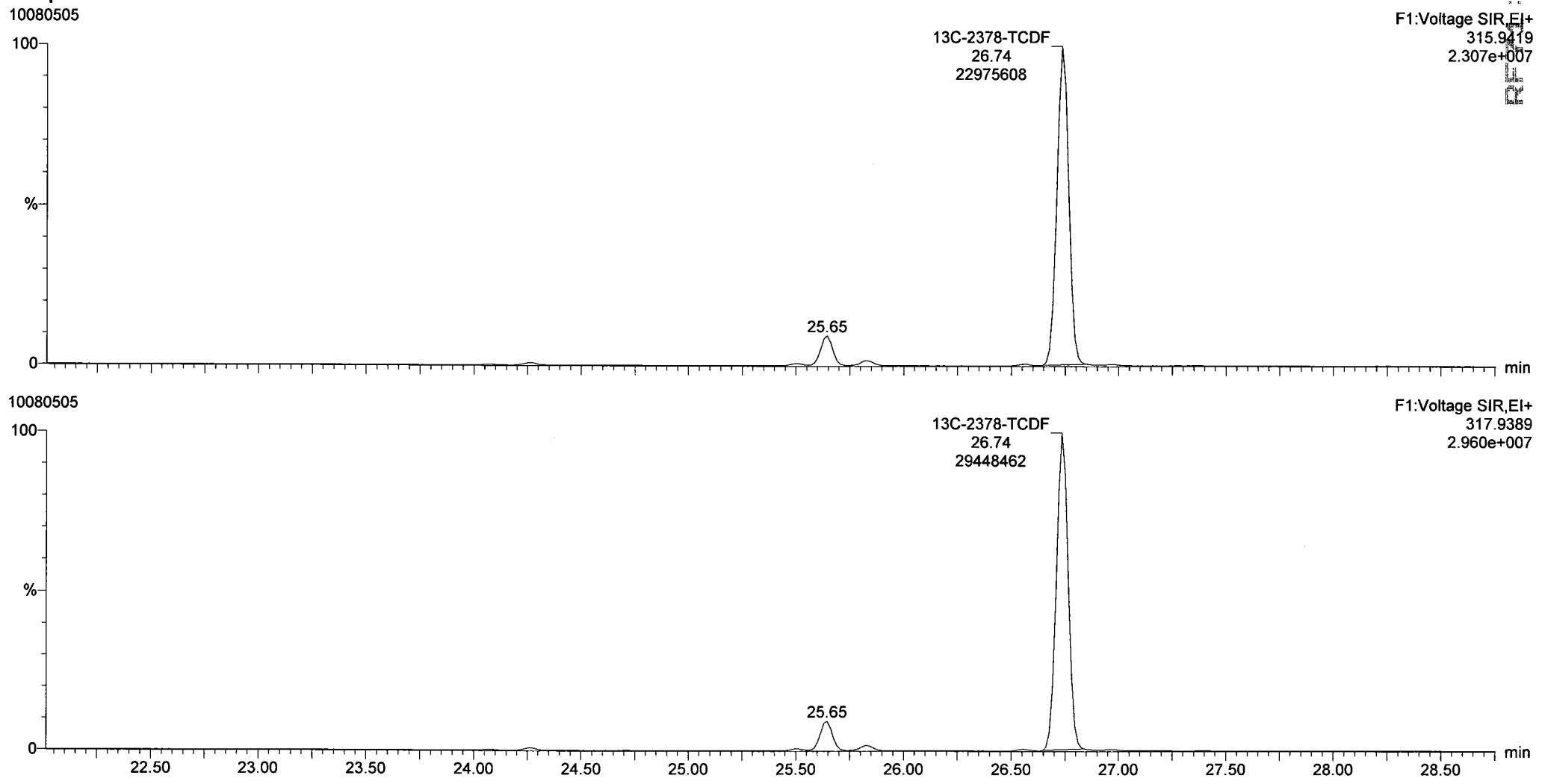


Height	1° Ht	RRF Mean	Std. Conc
		0.871	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-2378-TCDF

Sample Name: 10080505

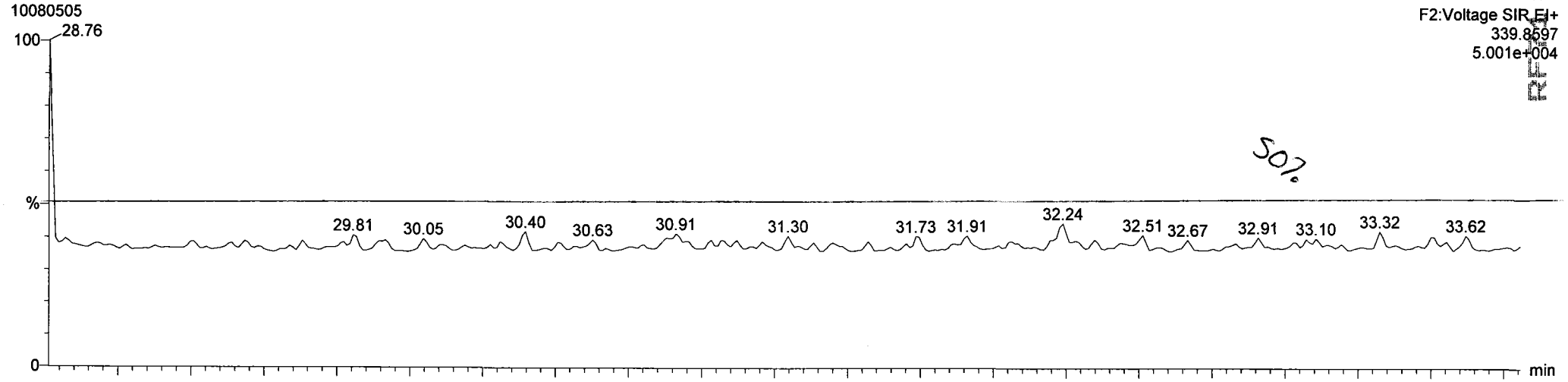


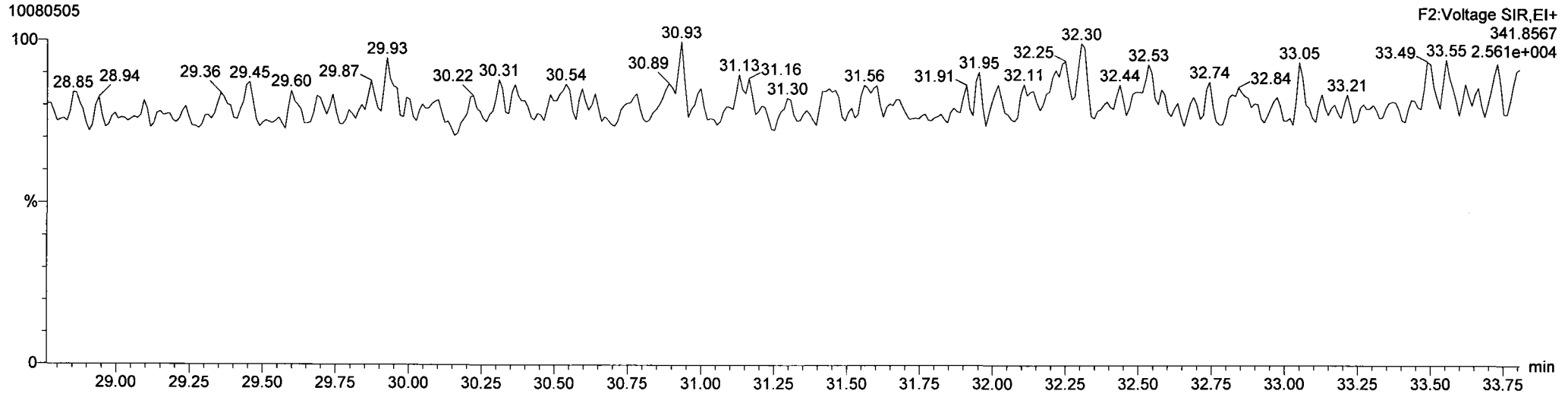
Height	1° Ht	RRF Mean	Std. Conc
22975608	29448462	1.608	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 12378-PeCDF

Sample Name: 10080505



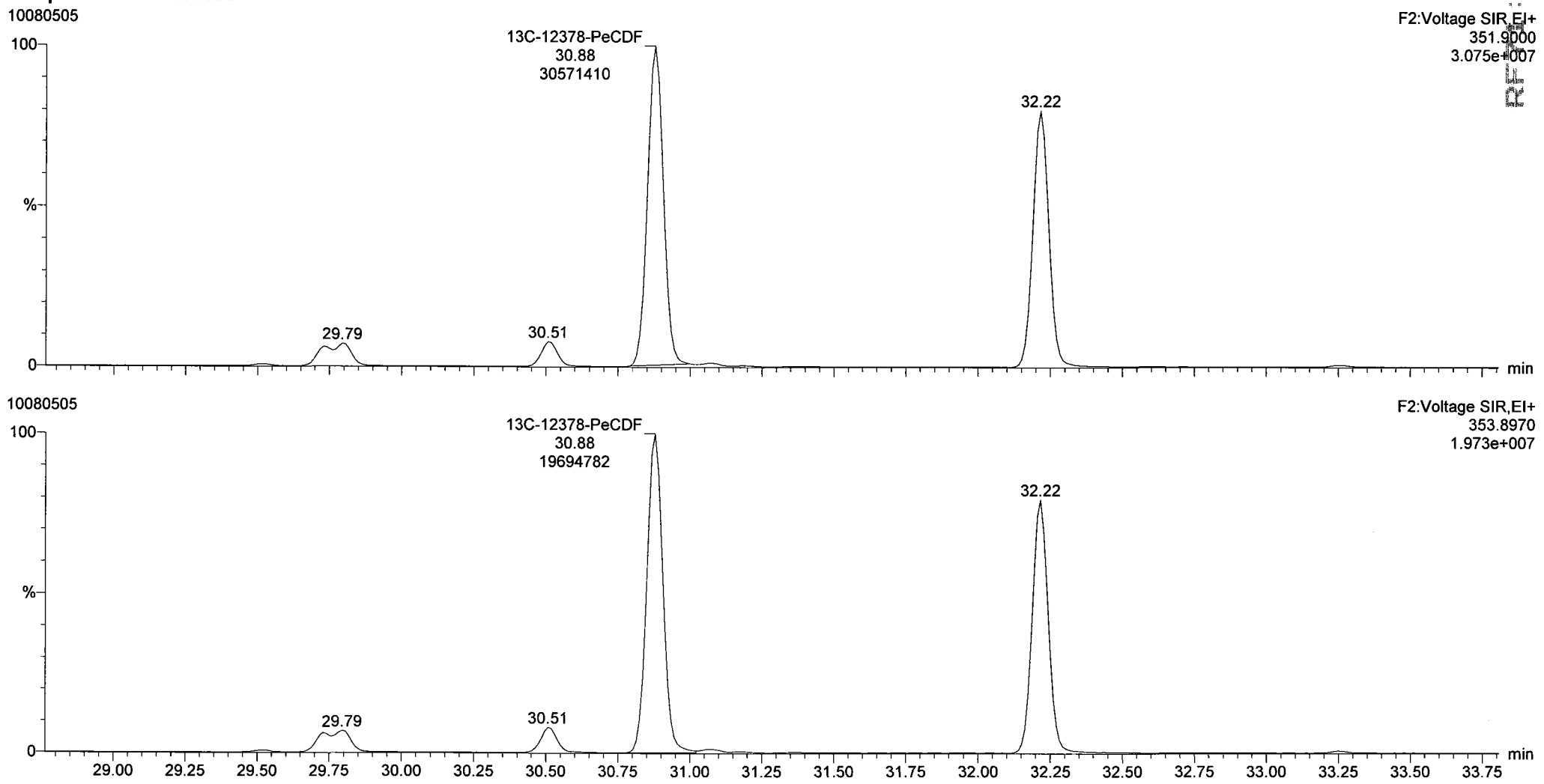


Height	1º Ht	RRF Mean	Std. Conc
		0.890	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-12378-PeCDF

Sample Name: 10080505

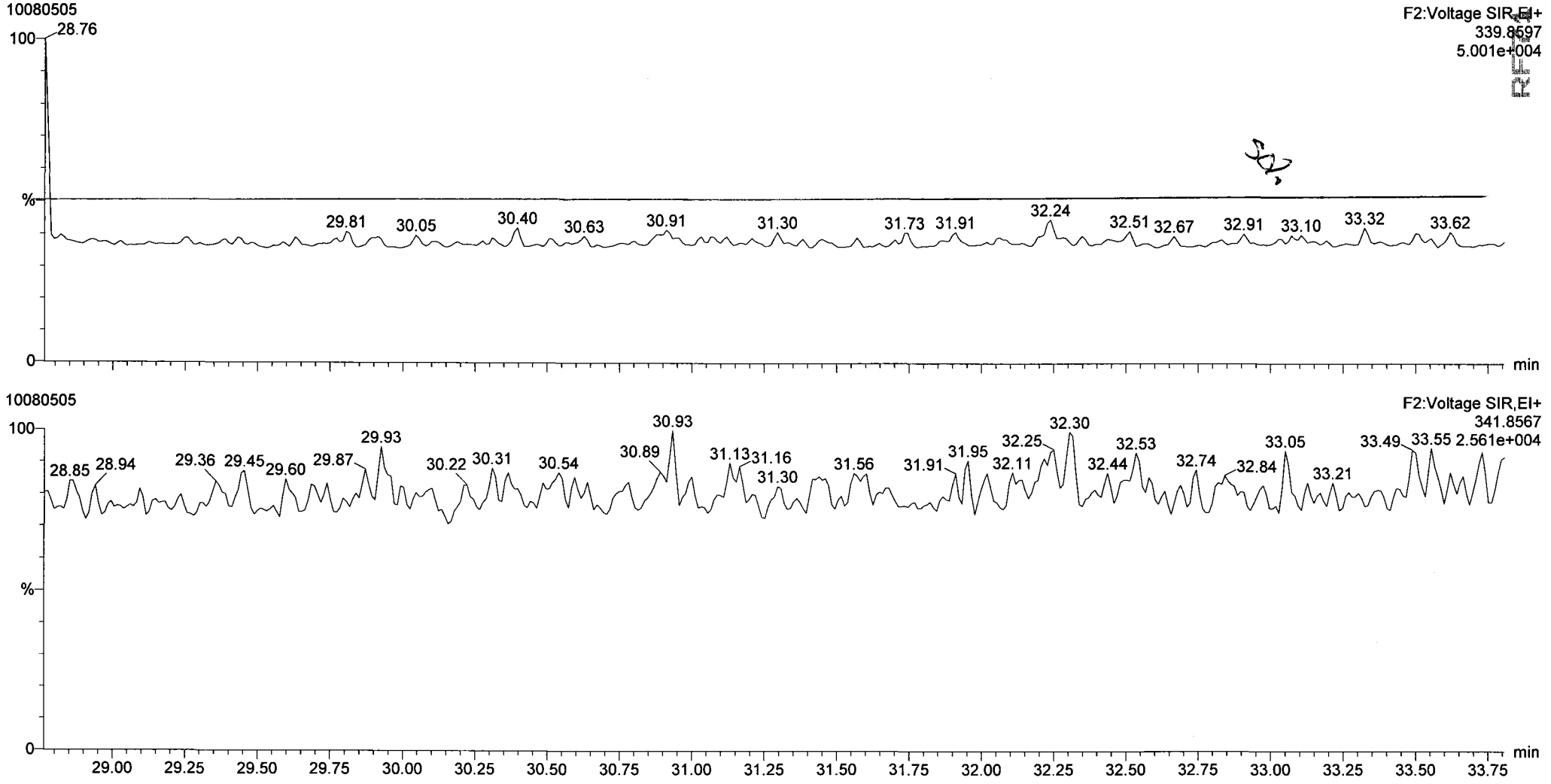


Height	1° Ht	RRF Mean	Std. Conc
30571410	19694782	1.281	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 23478-PeCDF

Sample Name: 10080505

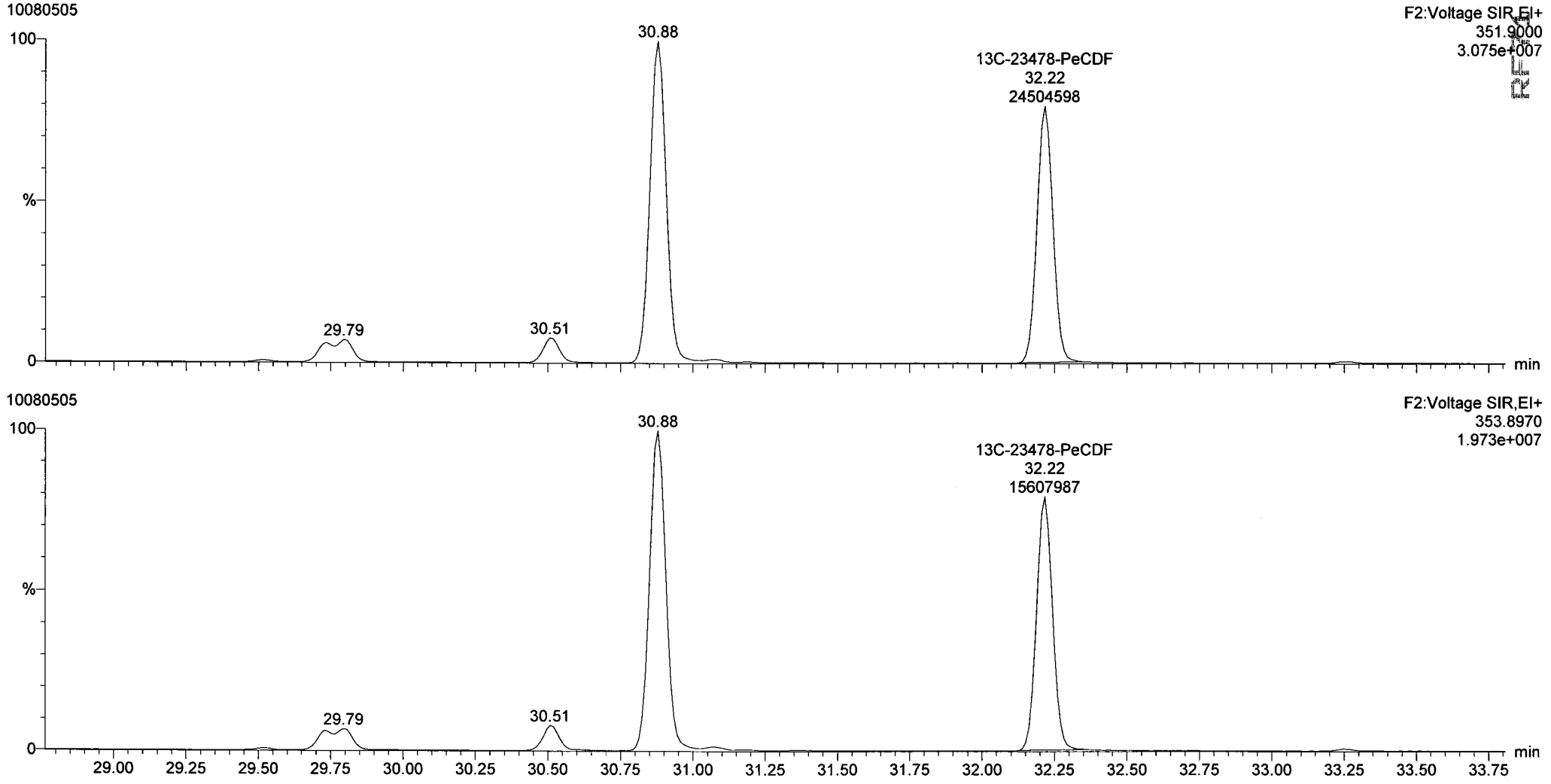


Height	1° Ht	RRF Mean	Std. Conc
		0.913	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-23478-PeCDF

Sample Name: 10080505

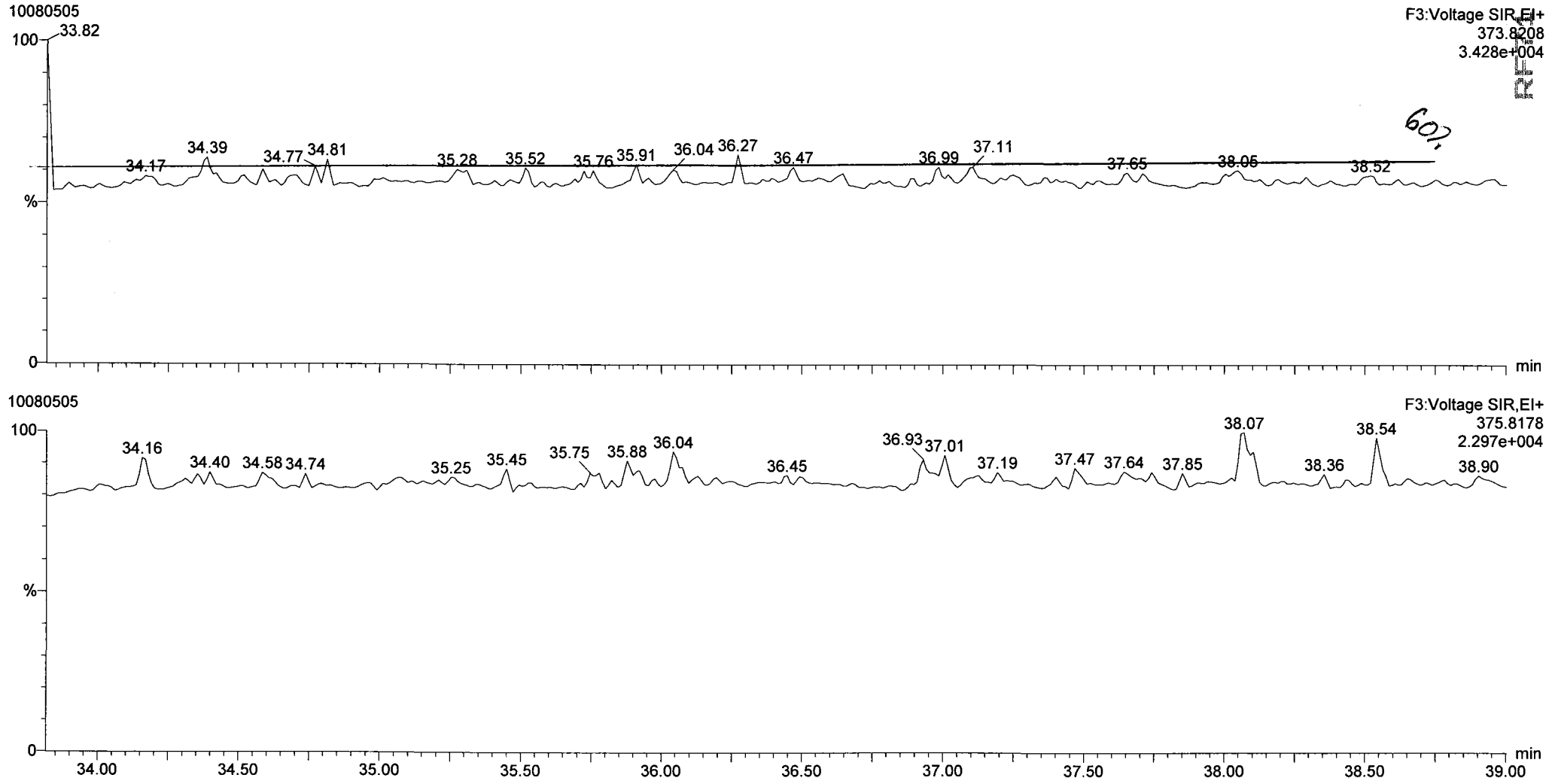


Height	1° Ht	RRF Mean	Std. Conc
24504598	15607987	1.261	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 123478-HxCDF

Sample Name: 10080505

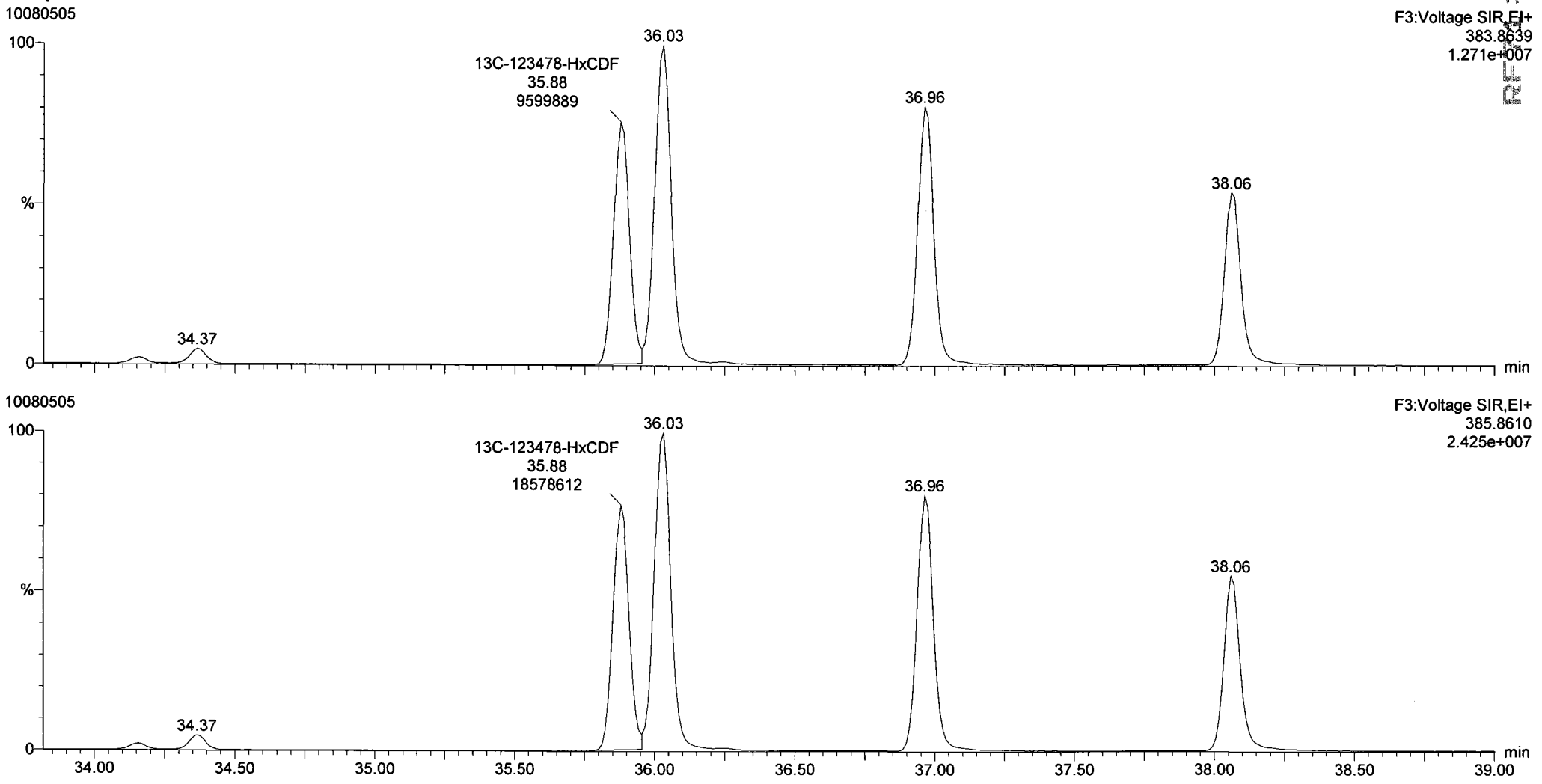


Height	1° Ht	RRF Mean	Std. Conc
		1.087	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-123478-HxCDF

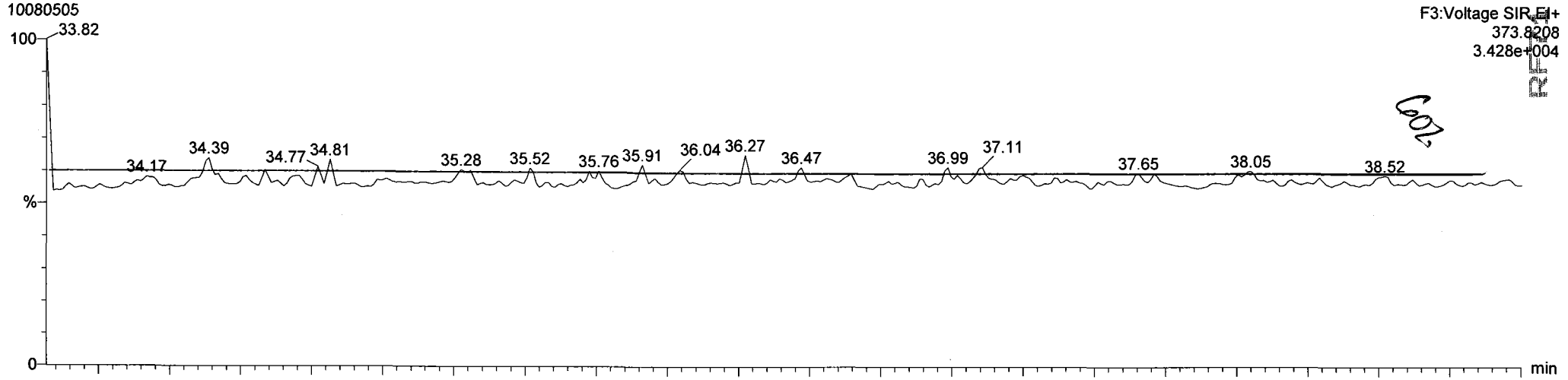
Sample Name: 10080505

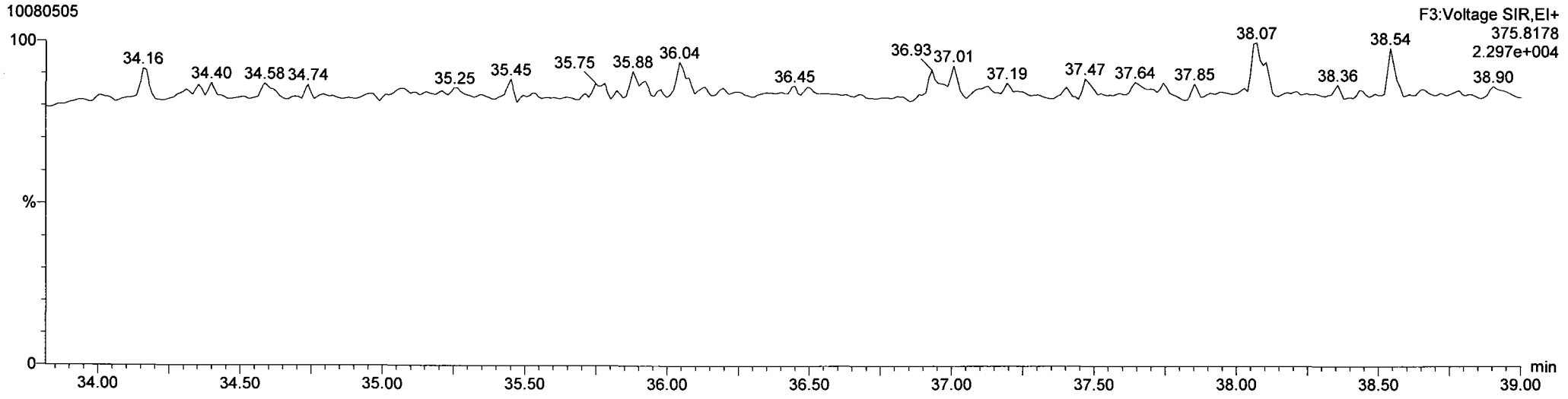


Height	1° Ht	RRF Mean	Std. Conc
9599889	18578612	1.131	100

Compound Name: 234678-HxCDF

Sample Name: 10080505

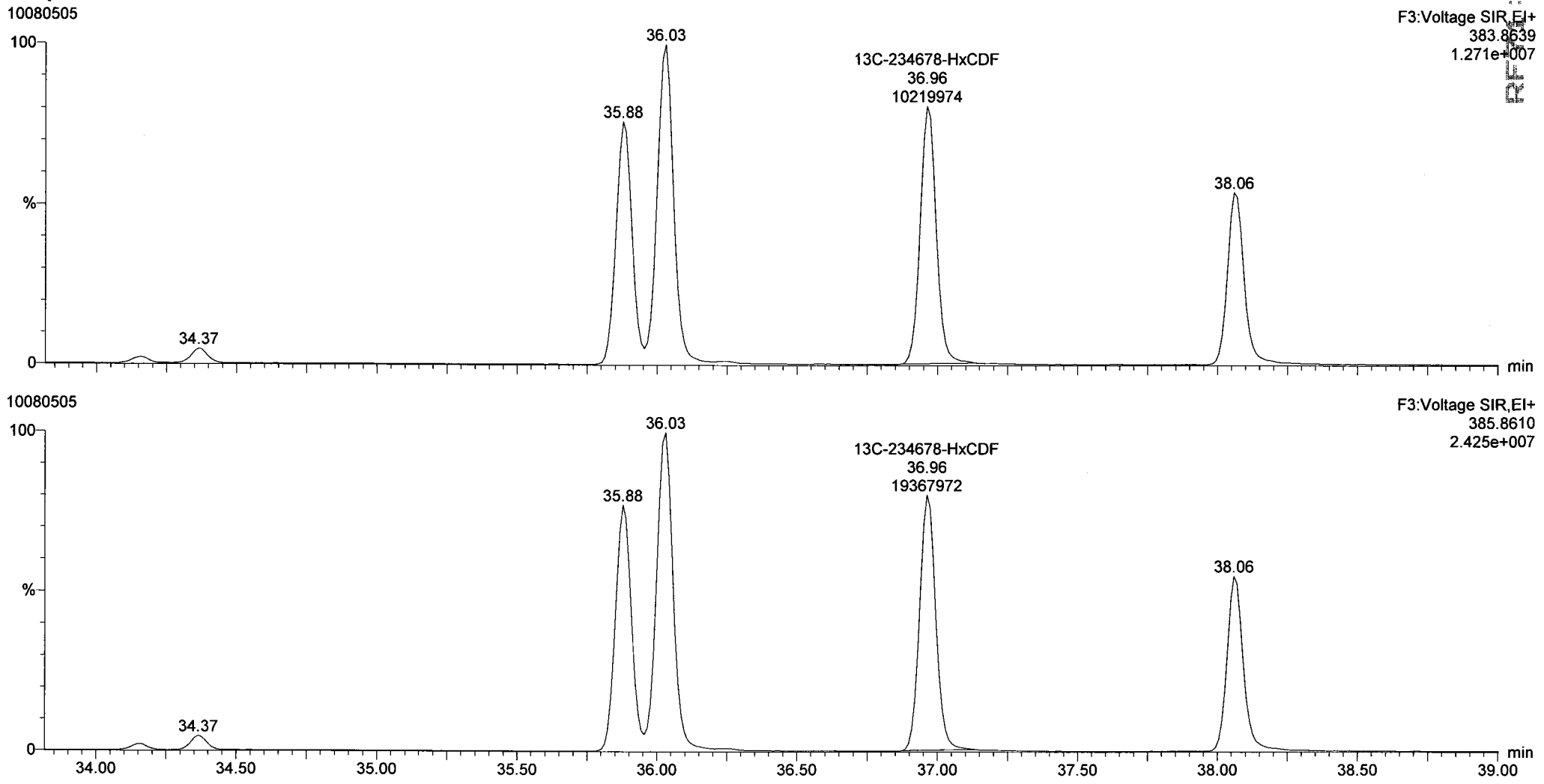




Height	1° Ht	RRF Mean	Std. Conc
		1.066	

Compound Name: 13C-234678-HxCDF

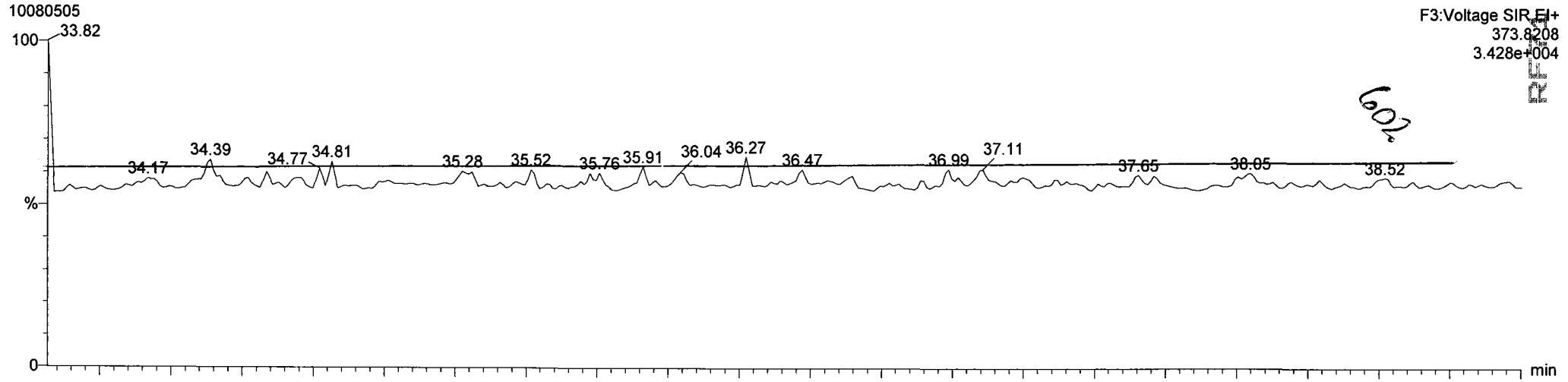
Sample Name: 10080505

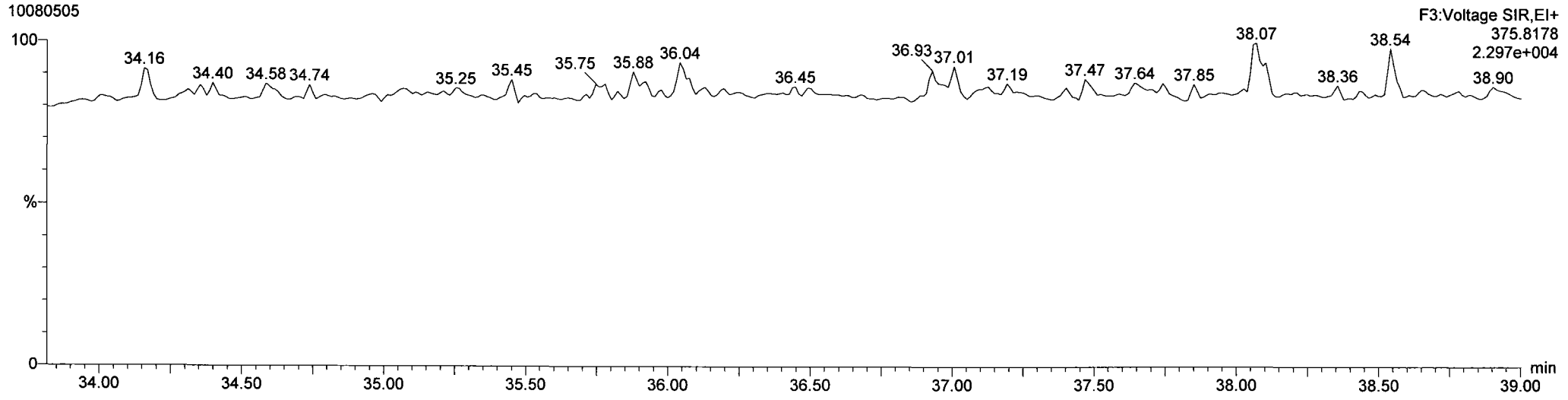


Height	1° Ht	RRF Mean	Std. Conc
10219974	19367972	1.193	100

Compound Name: 123678-HxCDF

Sample Name: 10080505



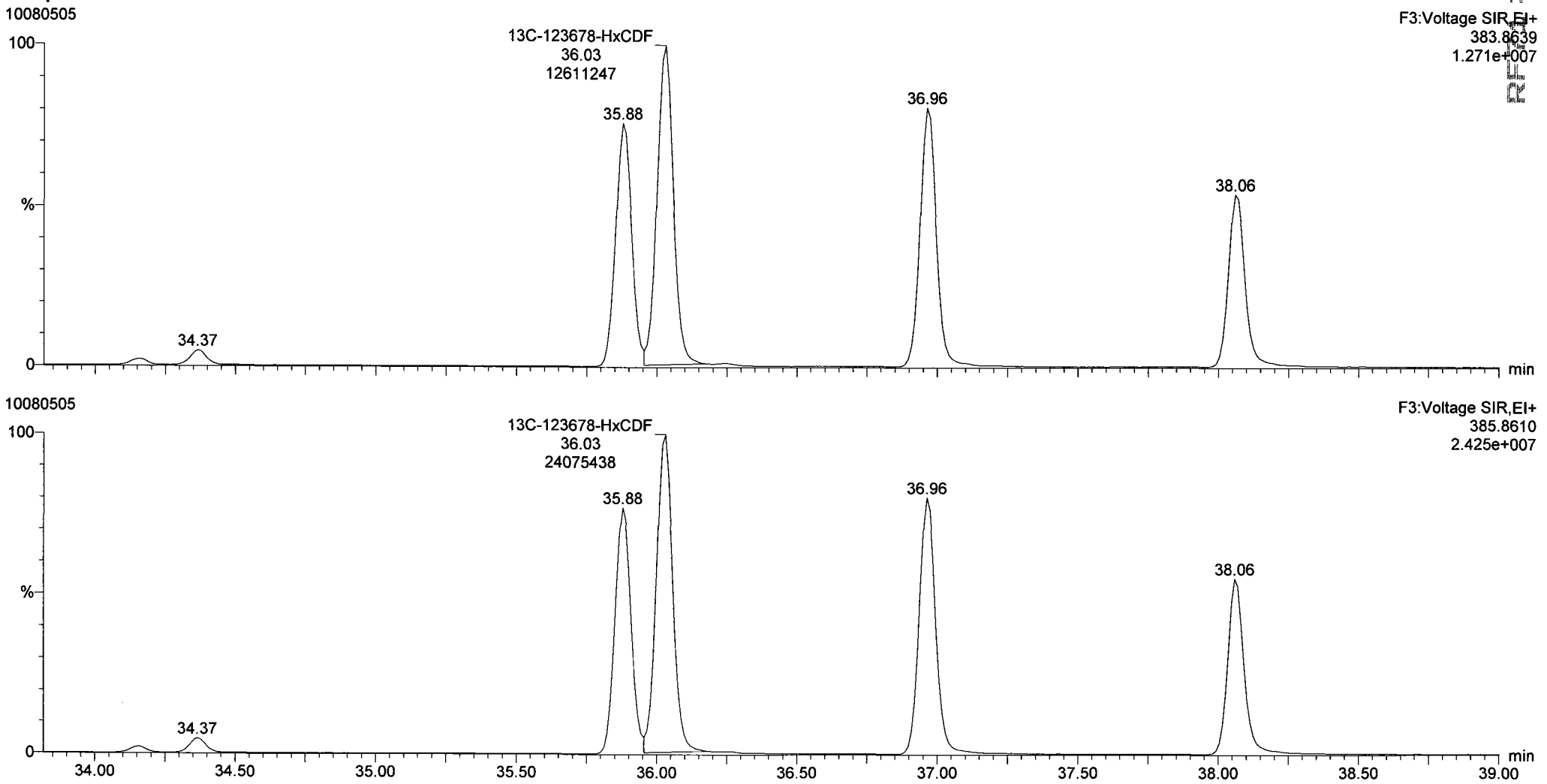


Height	1° Ht	RRF Mean	Std. Conc
		1.043	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-123678-HxCDF

Sample Name: 10080505

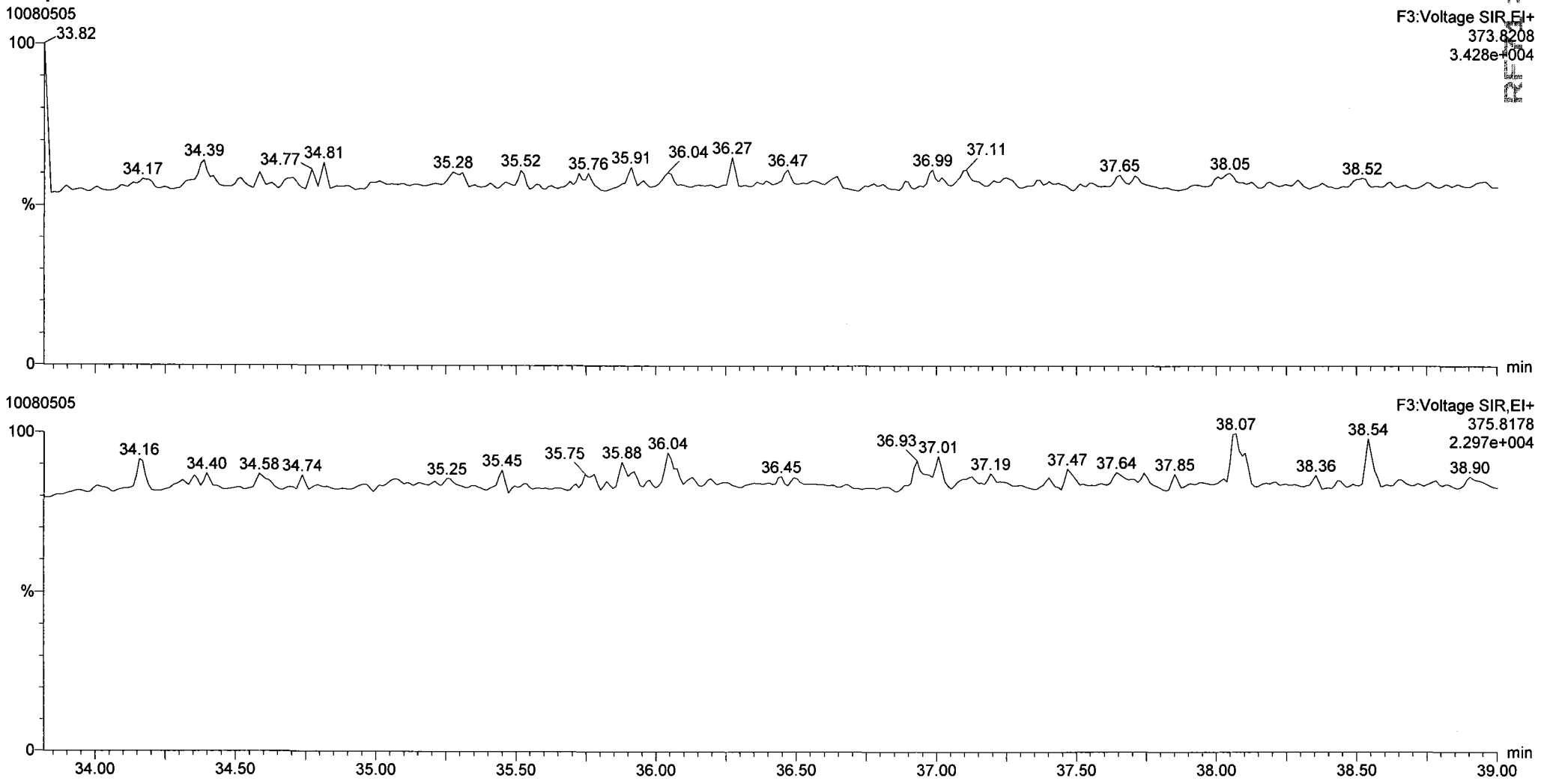


Height	1° Ht	RRF Mean	Std. Conc
12611247	24075438	1.260	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 123789-HxCDF

Sample Name: 10080505

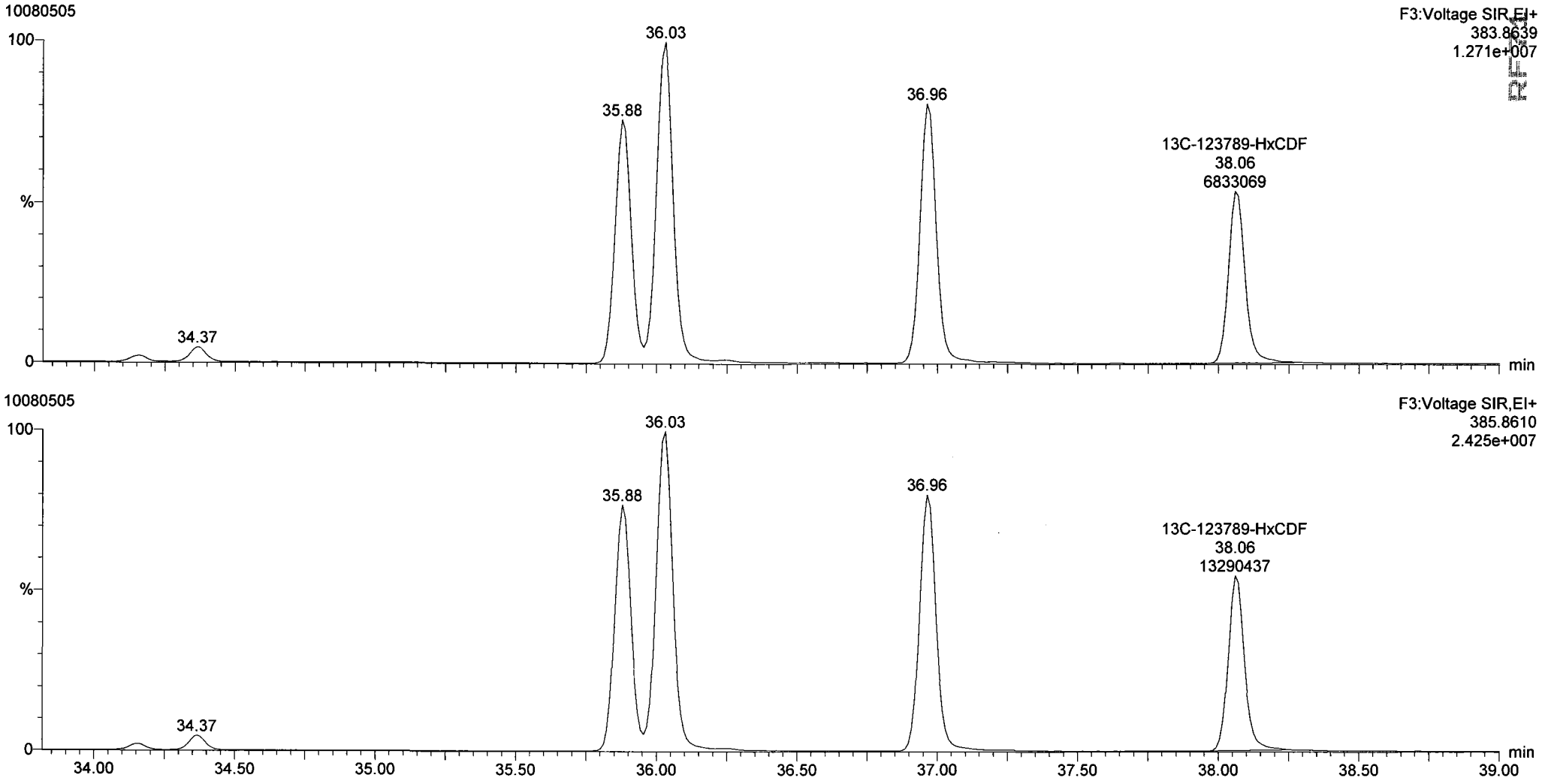


Height	1° Ht	RRF Mean	Std. Conc
		1.001	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-123789-HxCDF

Sample Name: 10080505

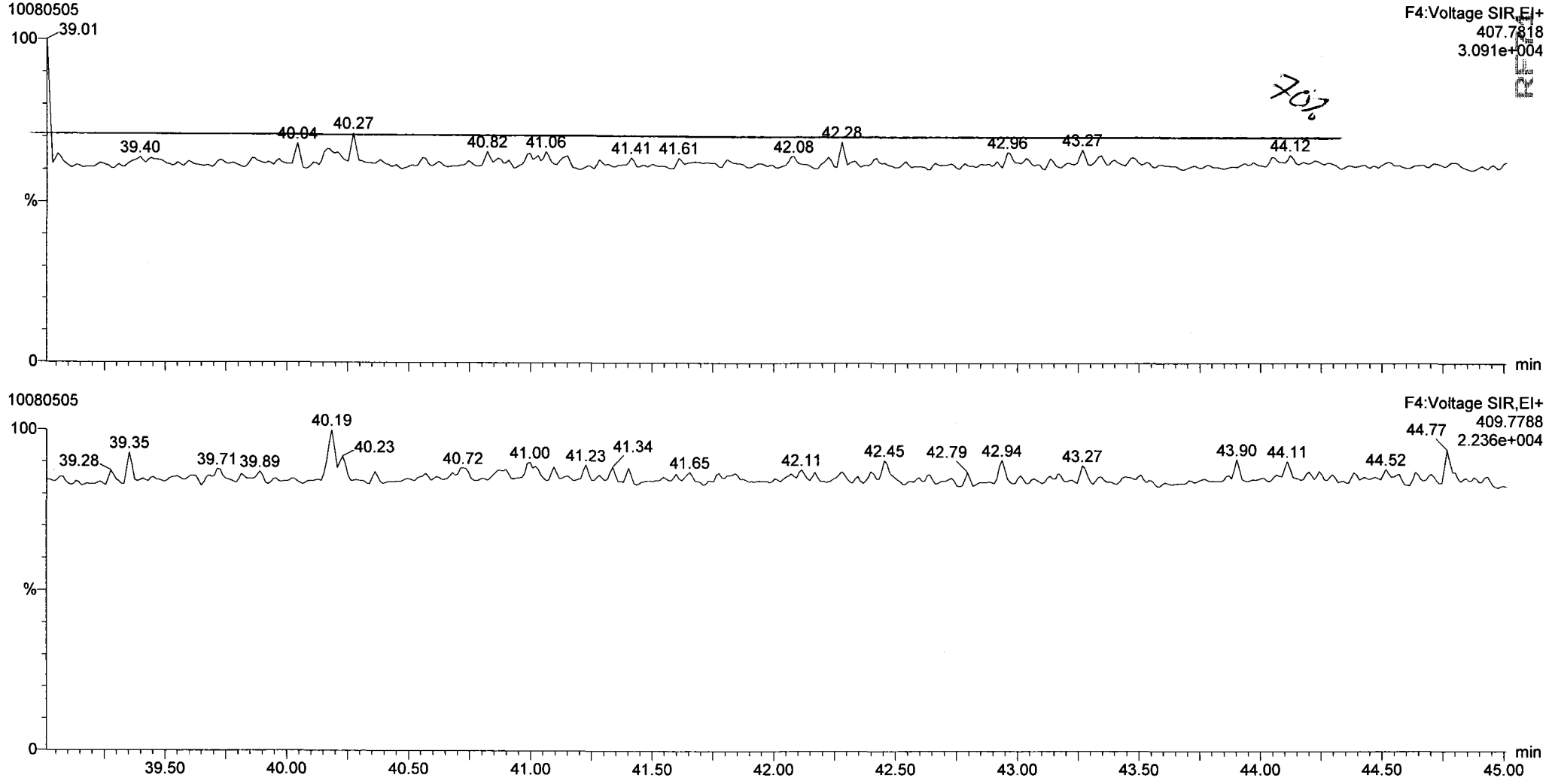


Height	1° Ht	RRF Mean	Std. Conc
6833069	13290437	1.097	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 1234678-HpCDF

Sample Name: 10080505

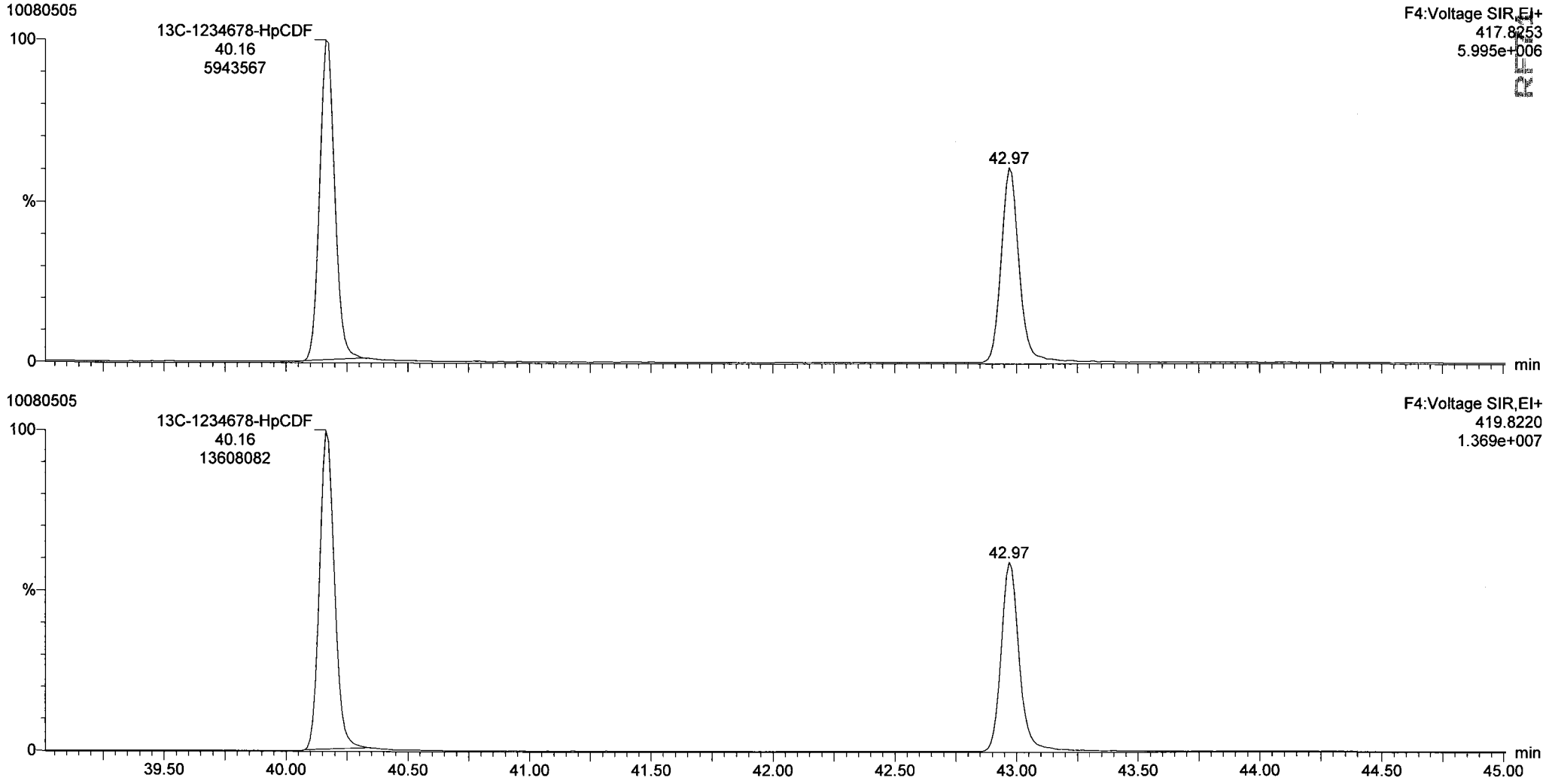


Height	1° Ht	RRF Mean	Std. Conc
		1.234	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-1234678-HpCDF

Sample Name: 10080505

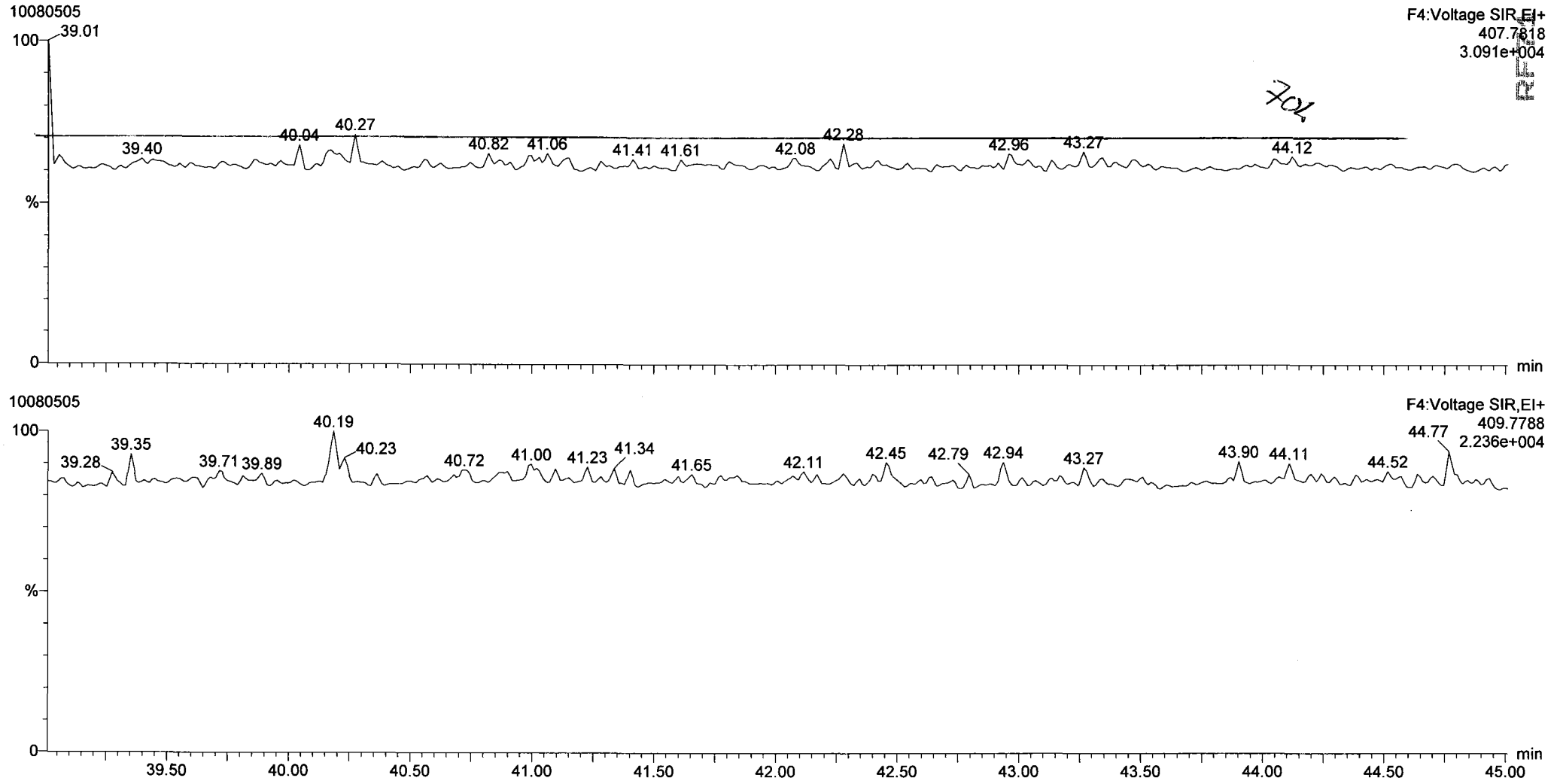


Height	1° Ht	RRF Mean	Std. Conc
5943567	13608082	0.934	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 1234789-HpCDF

Sample Name: 10080505

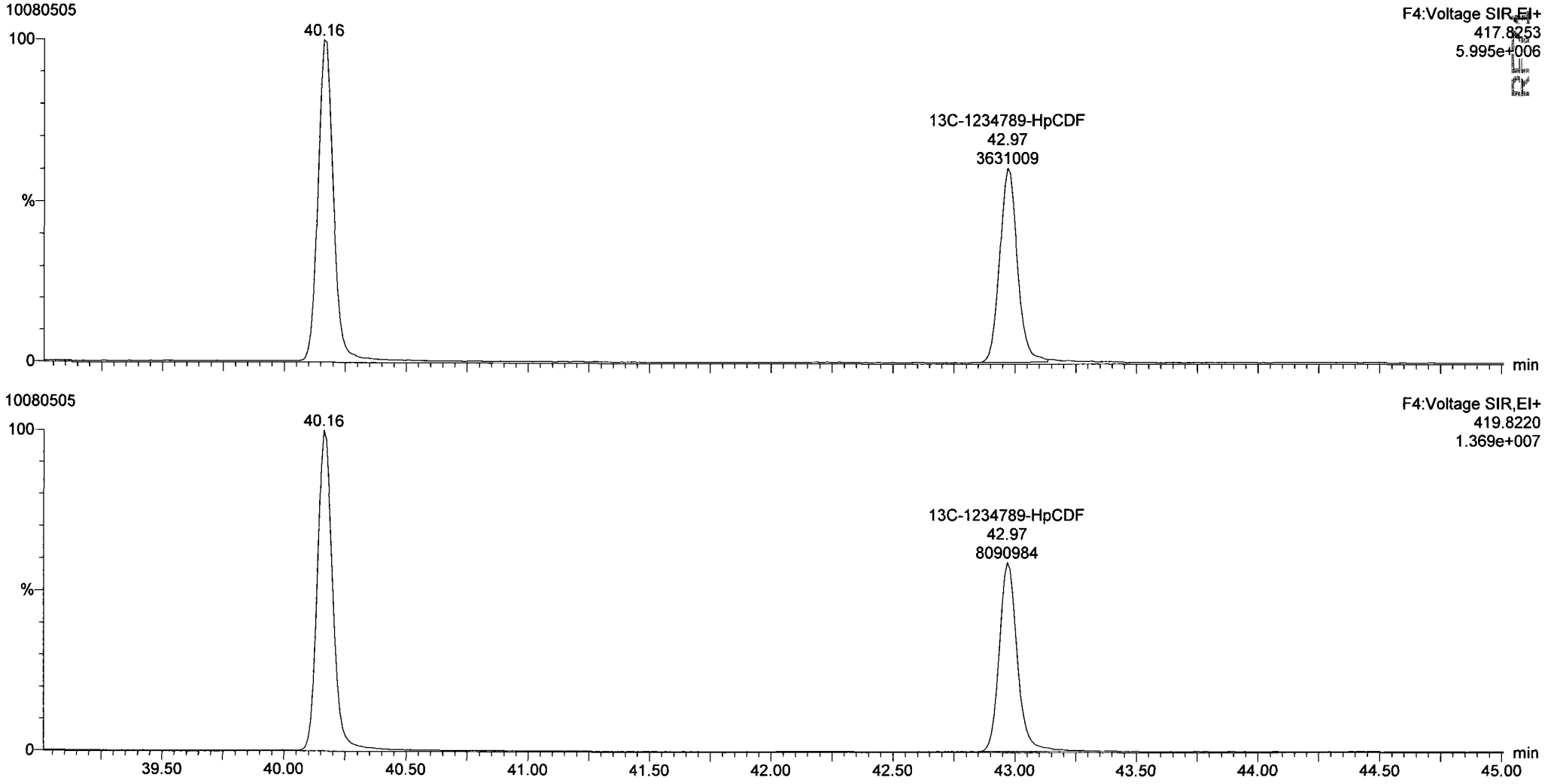


Height	1º Ht	RRF Mean	Std. Conc
		1.233	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-1234789-HpCDF

Sample Name: 10080505

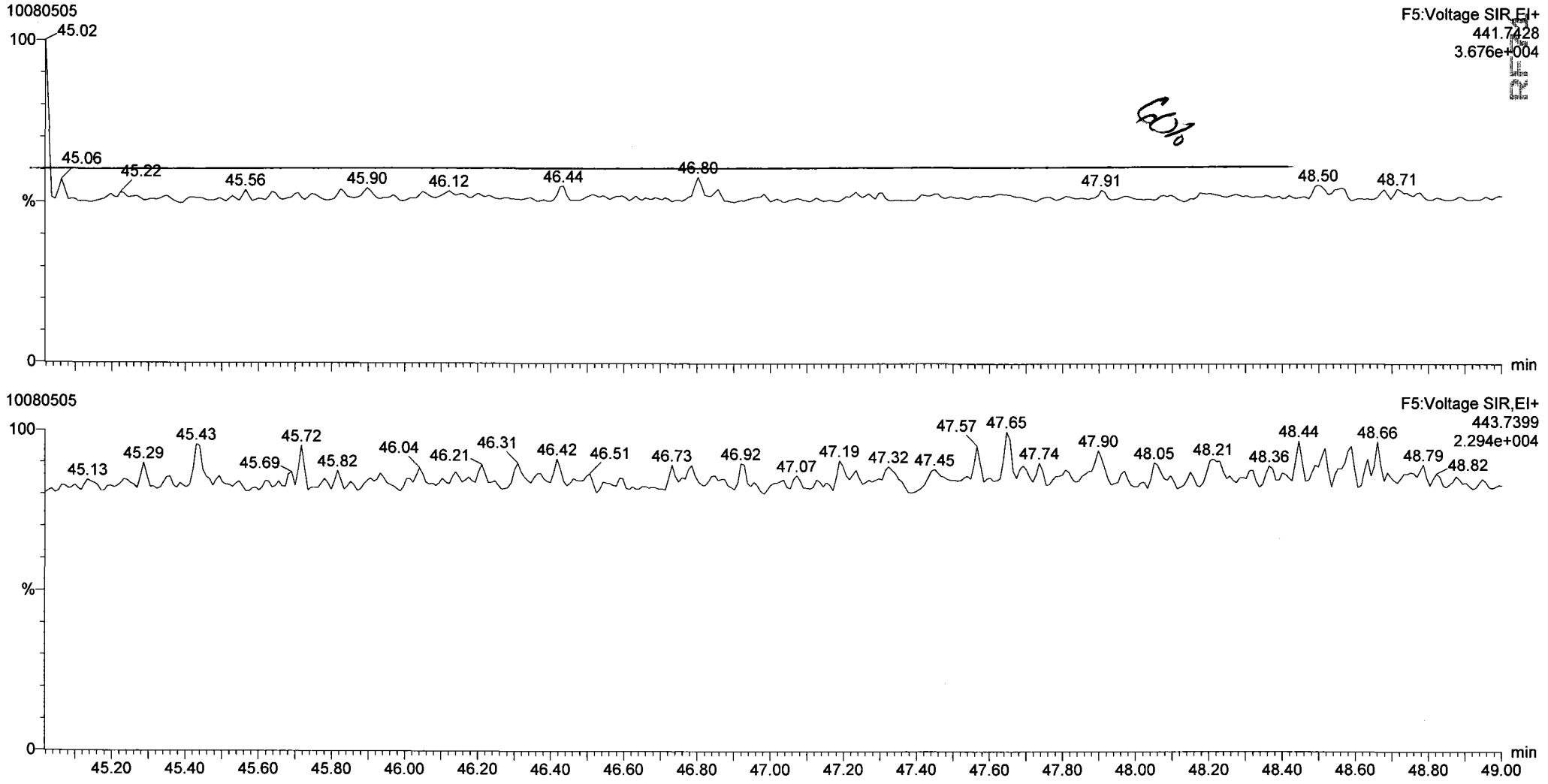


Height	1° Ht	RRF Mean	Std. Conc
3631009	8090984	0.760	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: OCDF

Sample Name: 10080505

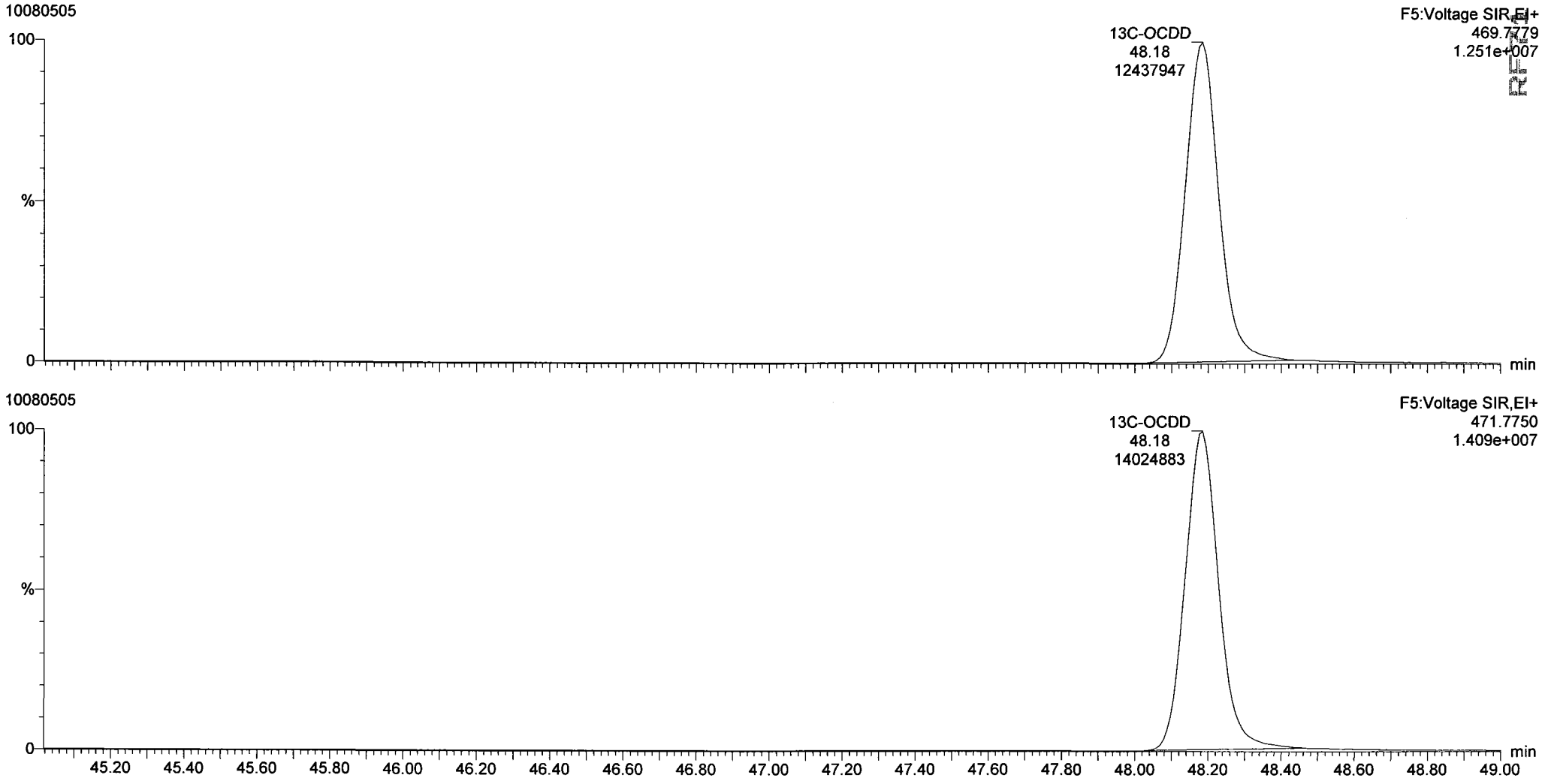


Height	1° Ht	RRF Mean	Std. Conc
		1.128	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-OCDD

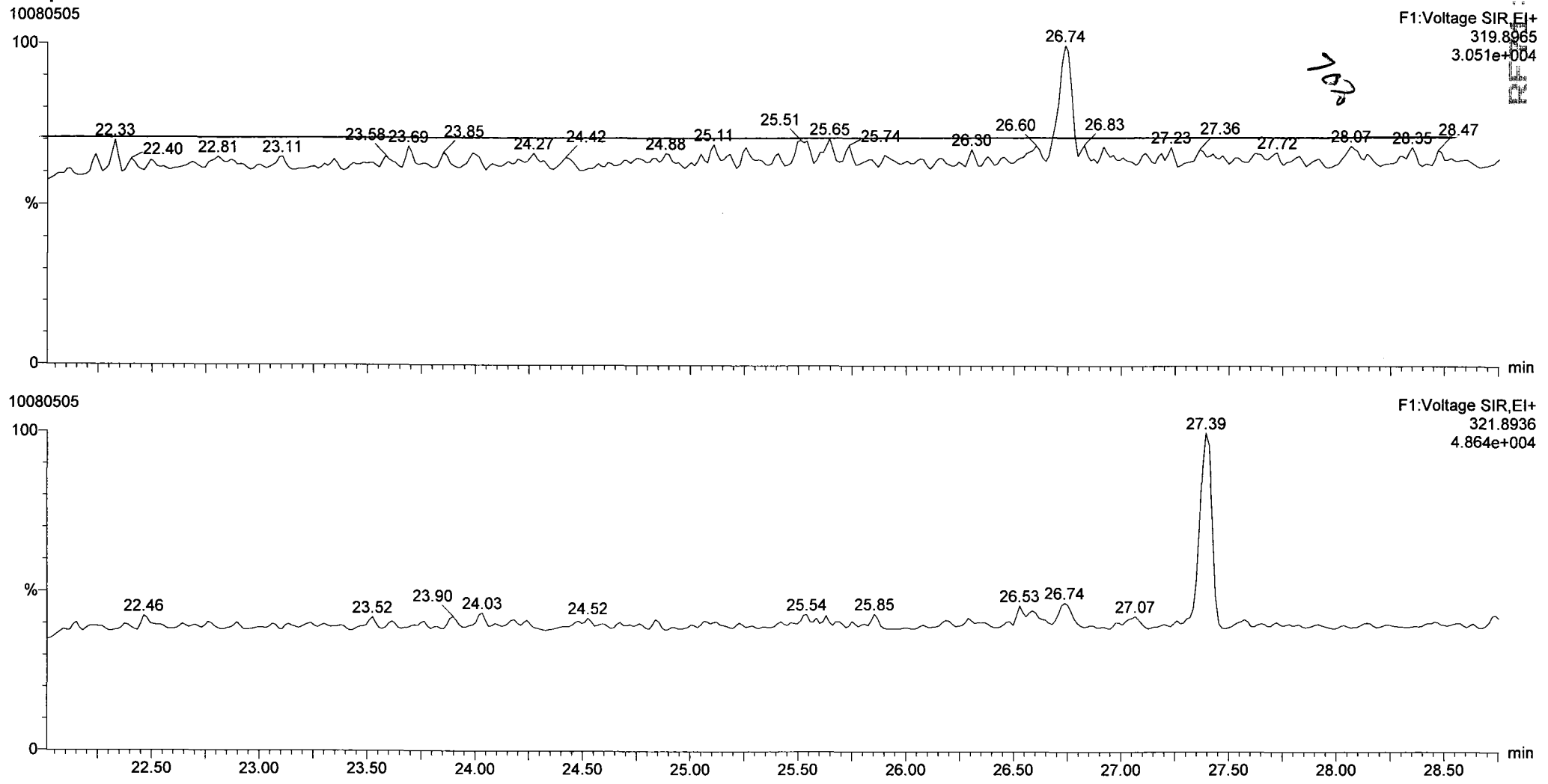
Sample Name: *10080505*



Height	1° Ht	RRF Mean	Std. Conc
12437947	14024883	0.814	200

Compound Name: 2378-TCDD

Sample Name: 10080505

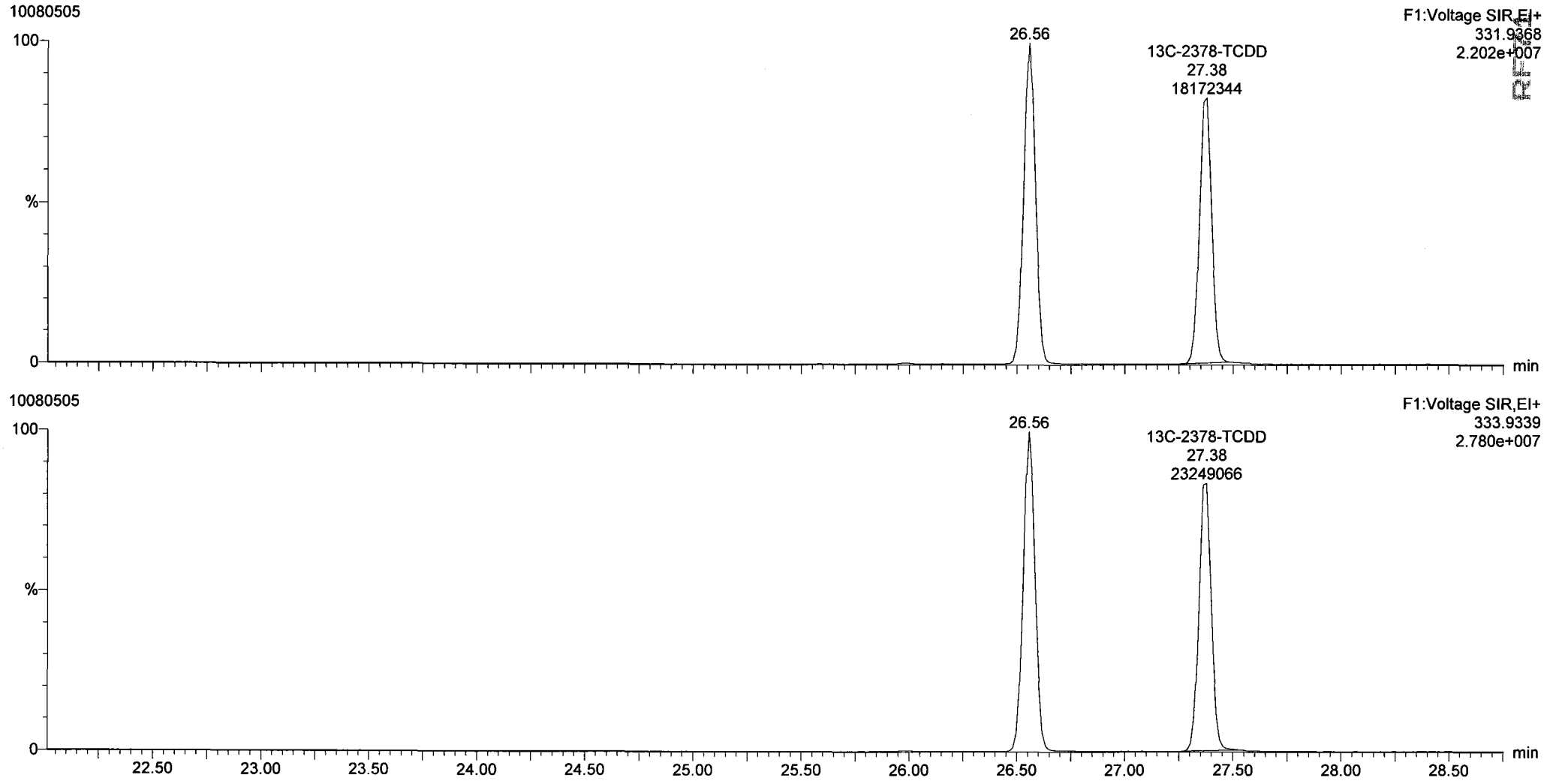


Height	1° Ht	RRF Mean	Std. Conc
		1.041	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-2378-TCDD

Sample Name: 10080505

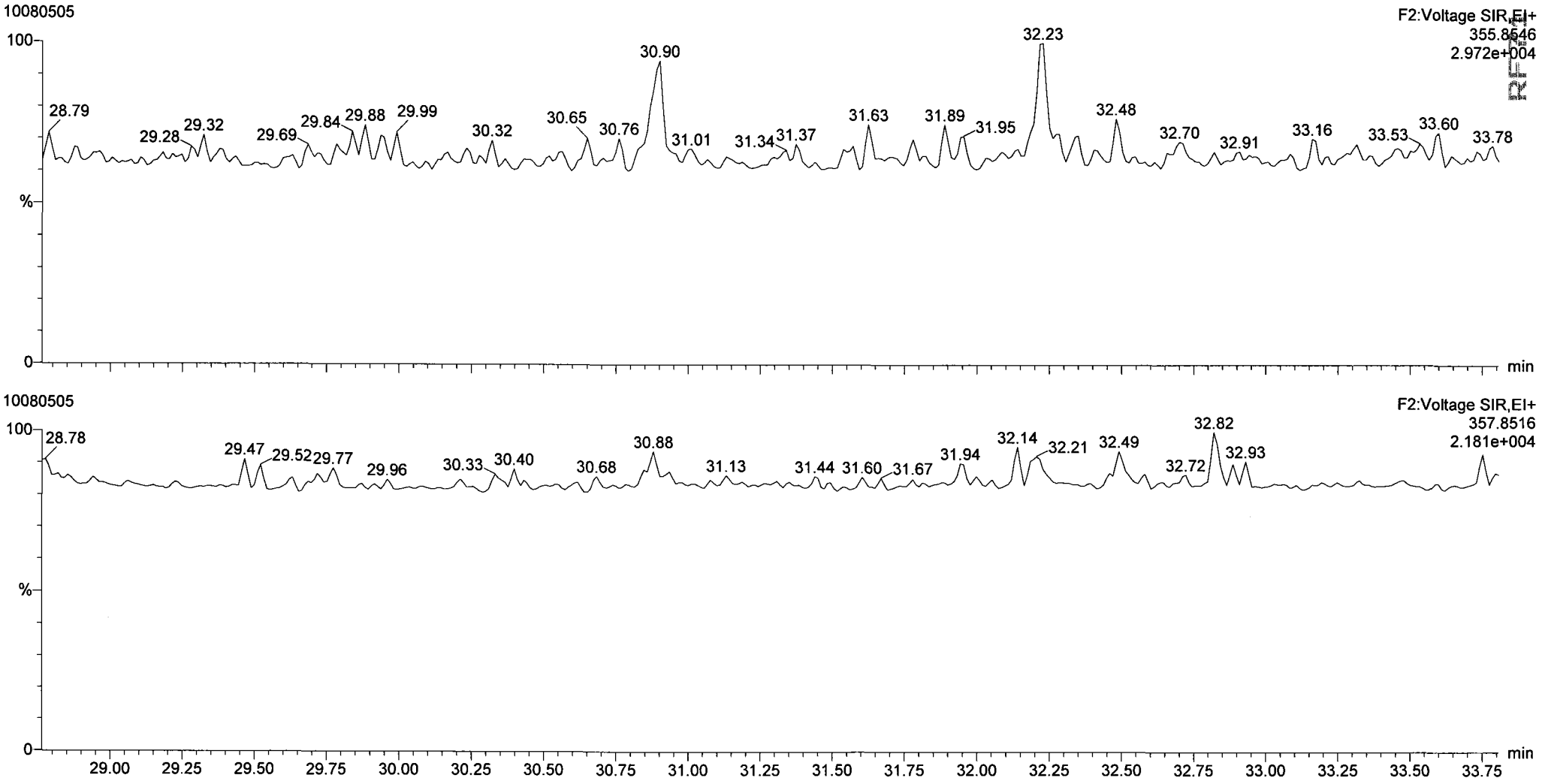


Height	1° Ht	RRF Mean	Std. Conc
18172344	23249066	1.041	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 12378-PeCDD

Sample Name: 10080505

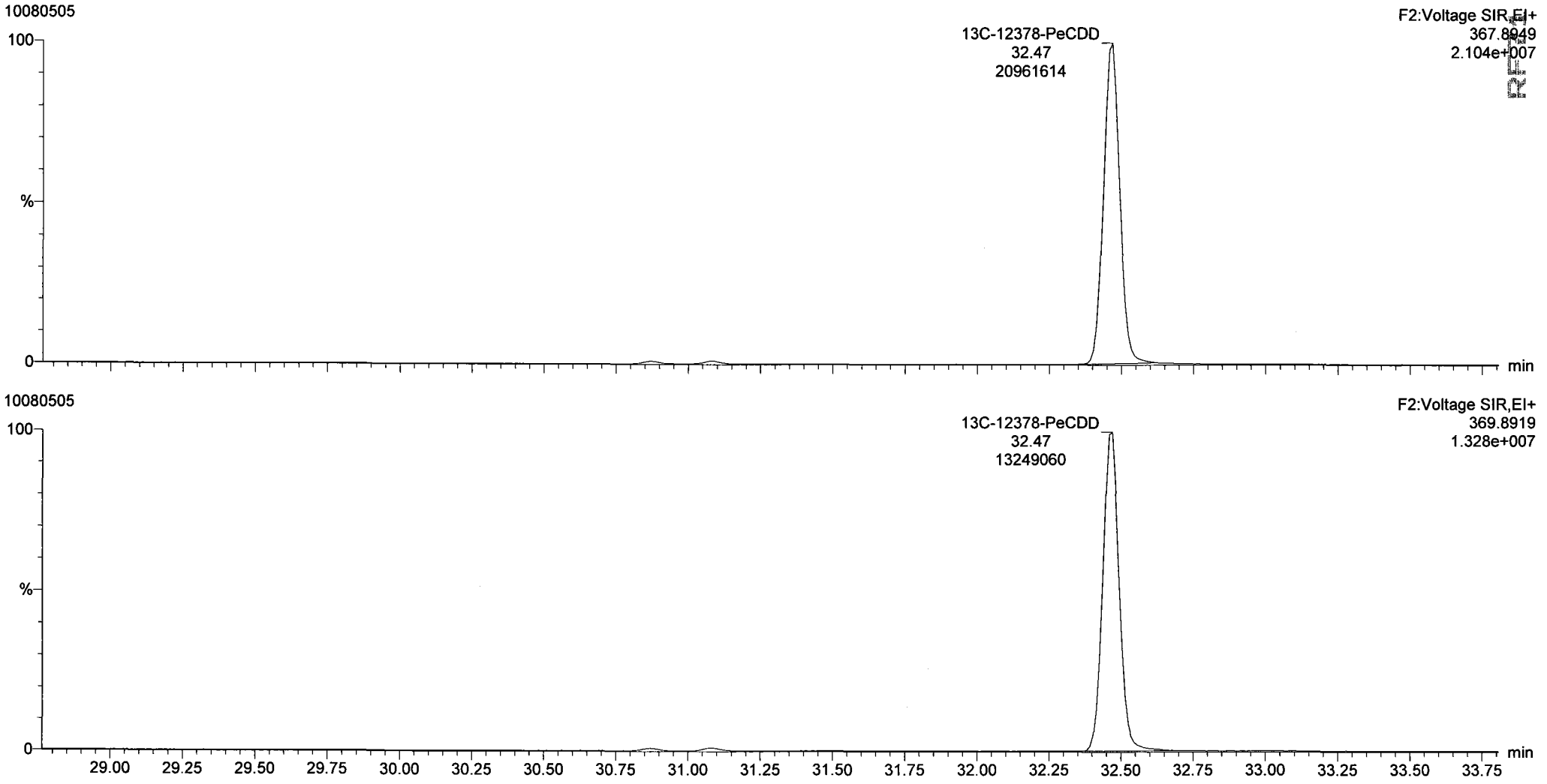


Height	1° Ht	RRF Mean	Std. Conc
		0.969	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-12378-PeCDD

Sample Name: 10080505

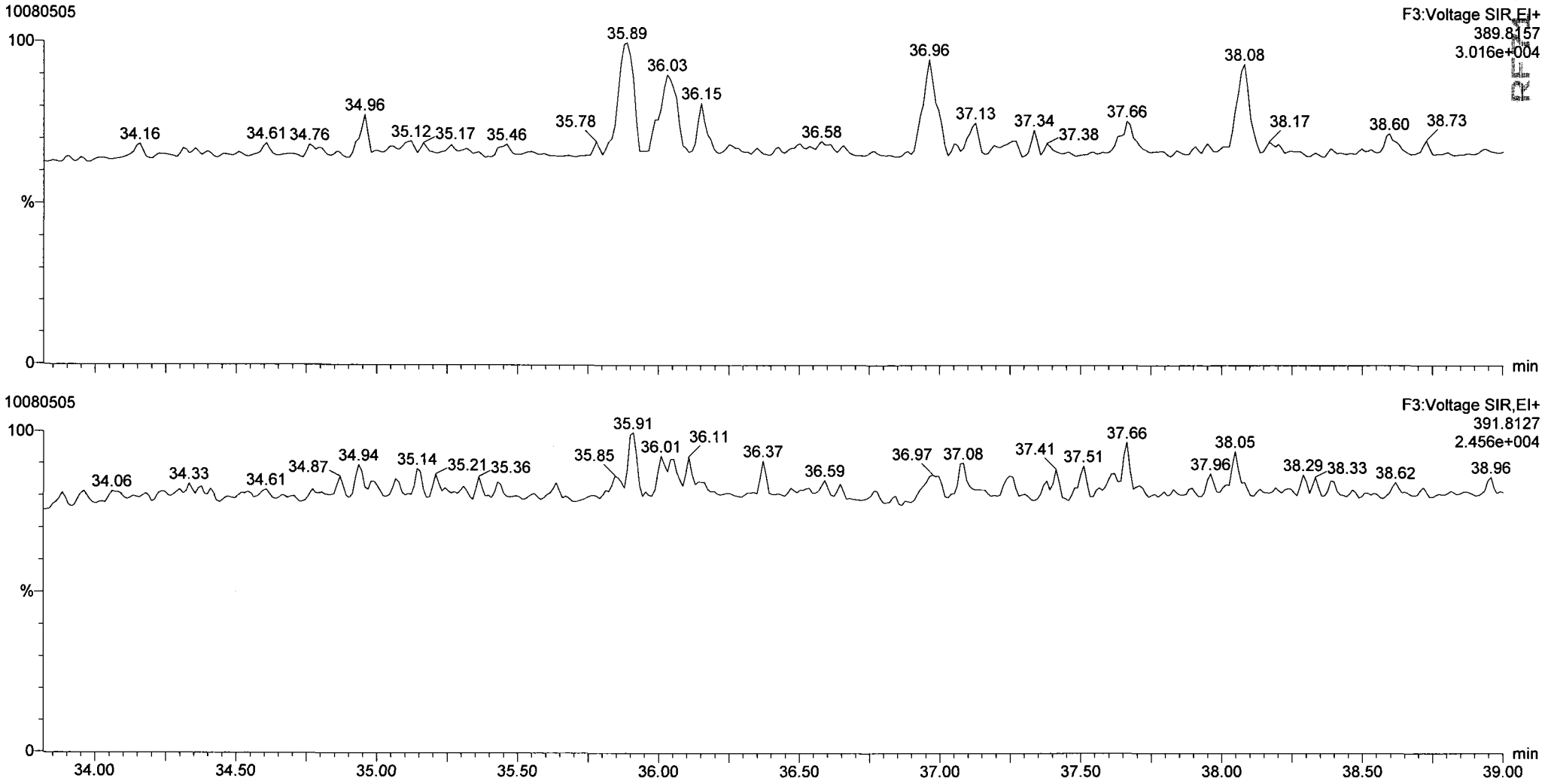


Height	1° Ht	RRF Mean	Std. Conc
20961614	13249060	0.847	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 123478-HxCDD

Sample Name: 10080505

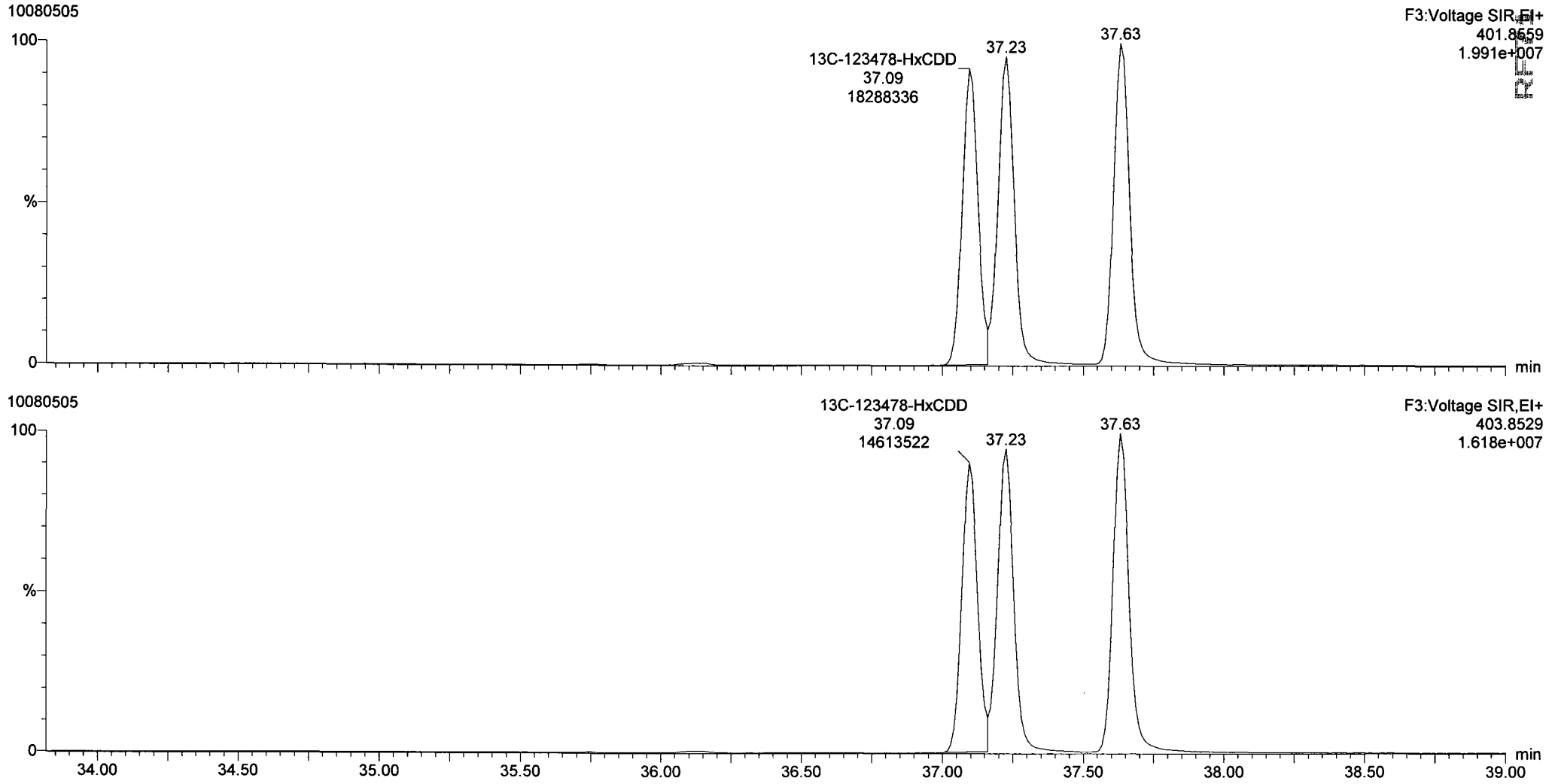


Height	1° Ht	RRF Mean	Std. Conc
		0.967	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-123478-HxCDD

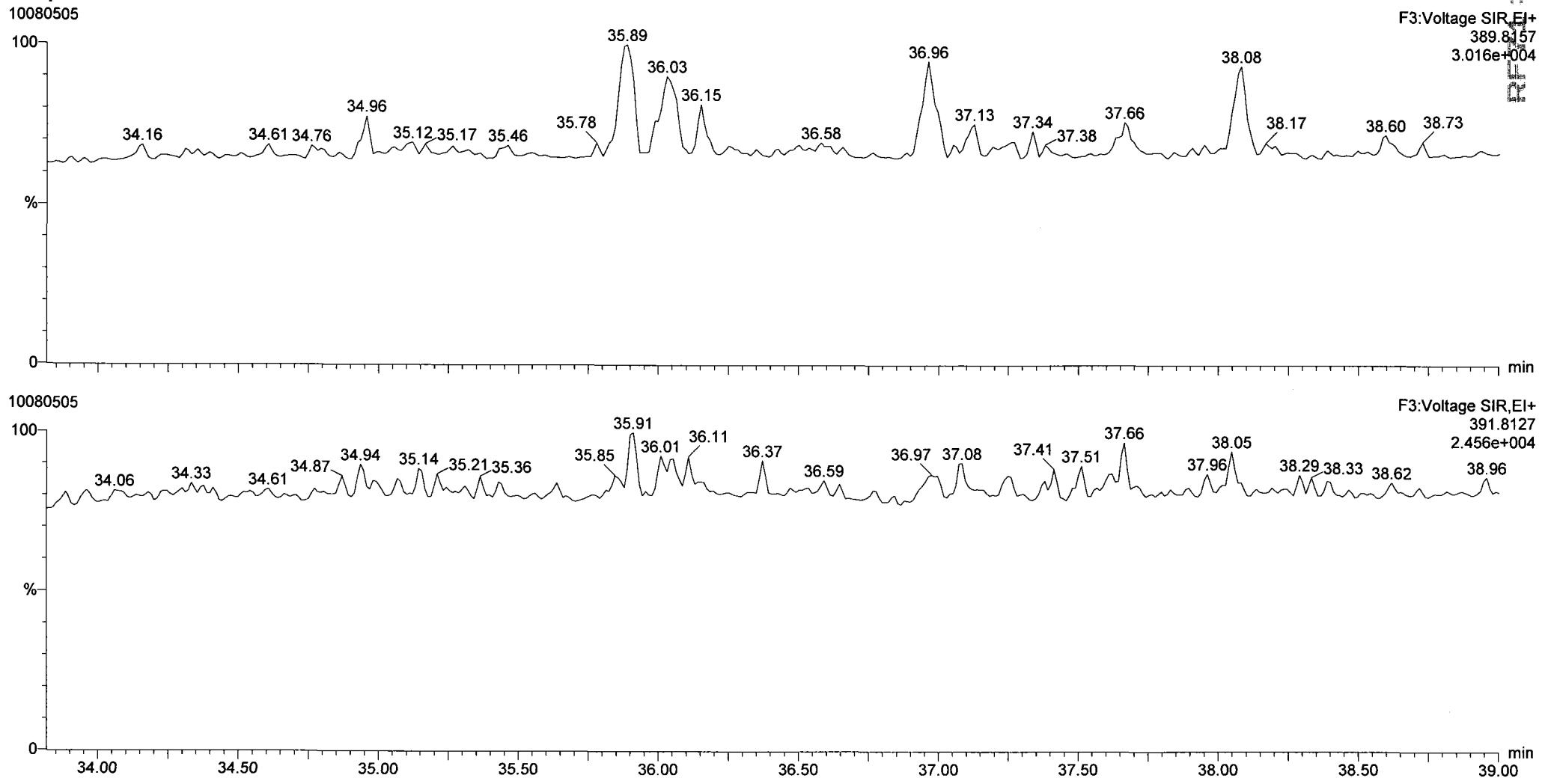
Sample Name: 10080505



Height	1° Ht	RRF Mean	Std. Conc
18288336	14613522	0.965	100

Compound Name: 123678-HxCDD

Sample Name: 10080505

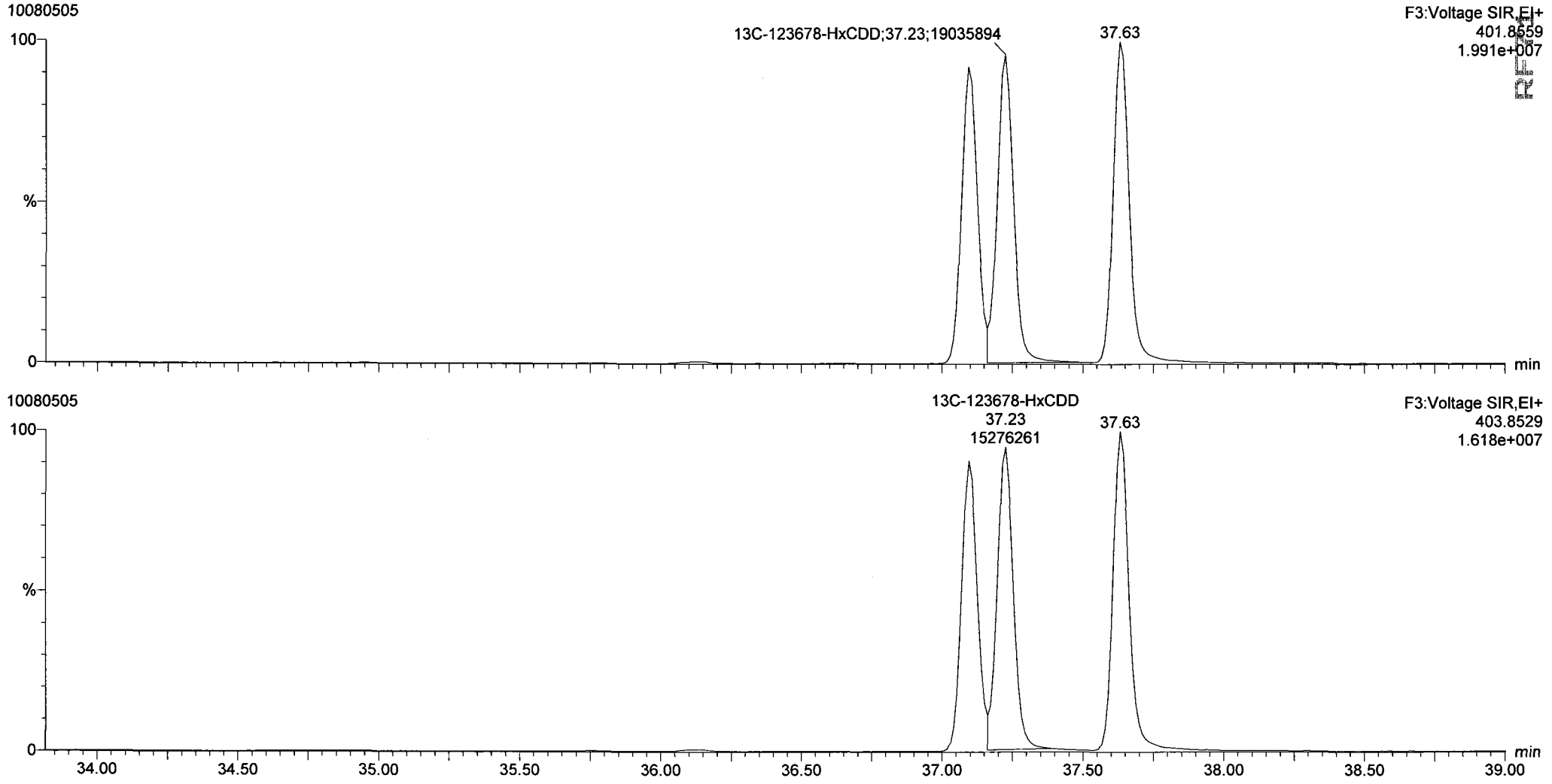


Height	1° Ht	RRF Mean	Std. Conc
		0.893	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-123678-HxCDD

Sample Name: 10080505

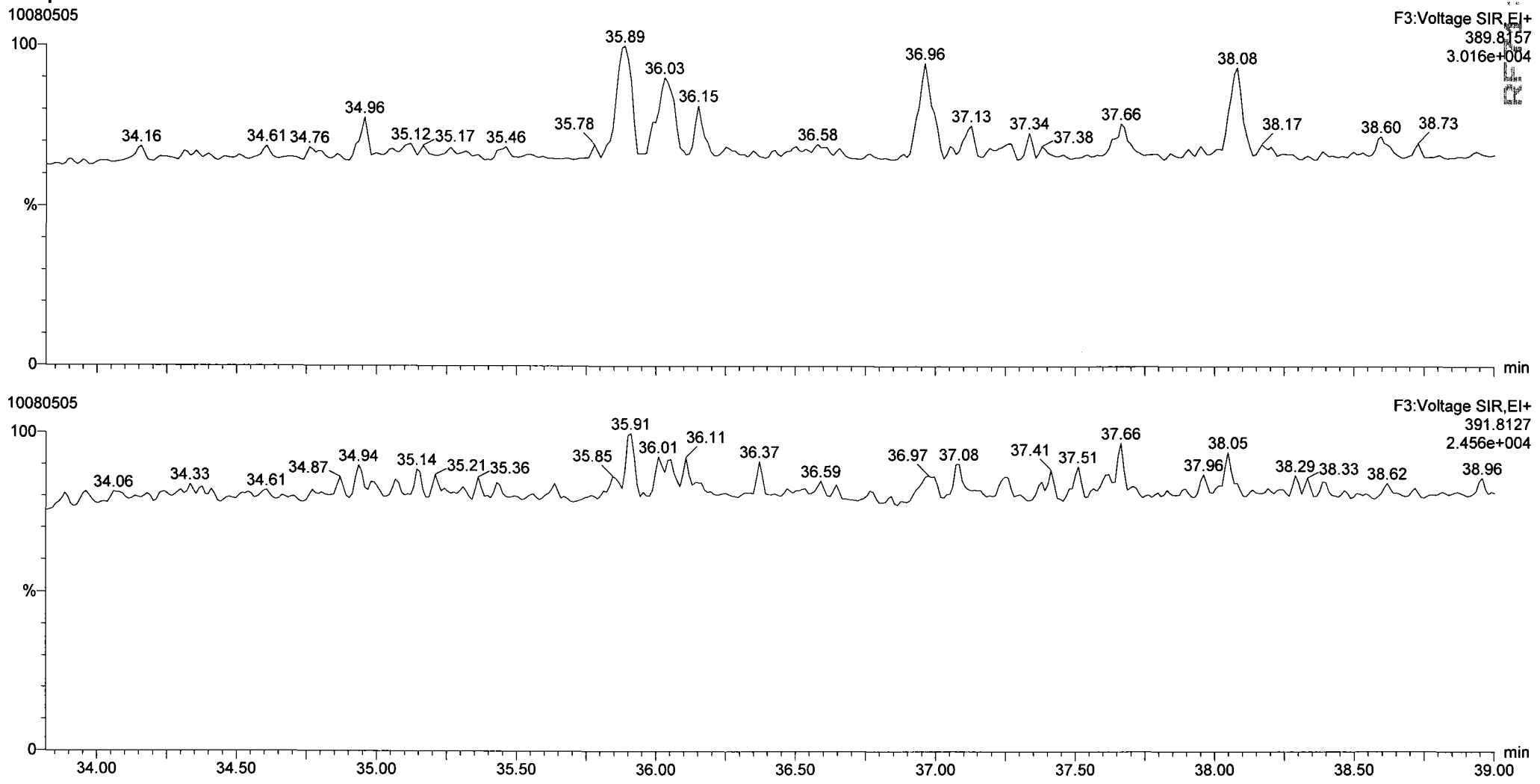


Height	1º Ht	RRF Mean	Std. Conc
19035894	15276261	1.072	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 123789-HxCDD

Sample Name: 10080505

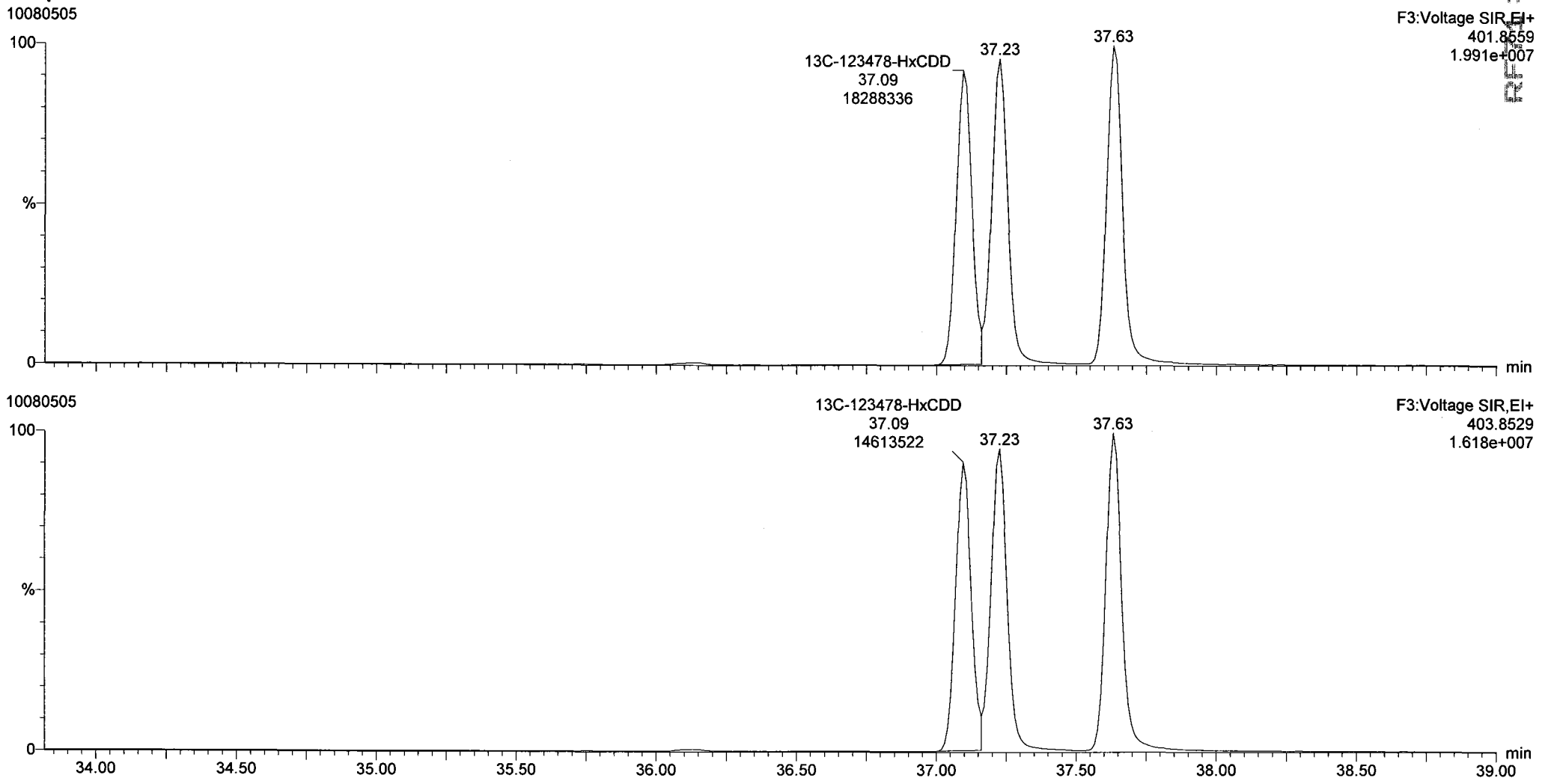


Height	1° Ht	RRF Mean	Std. Conc
		0.909	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-123478-HxCDD

Sample Name: 10080505

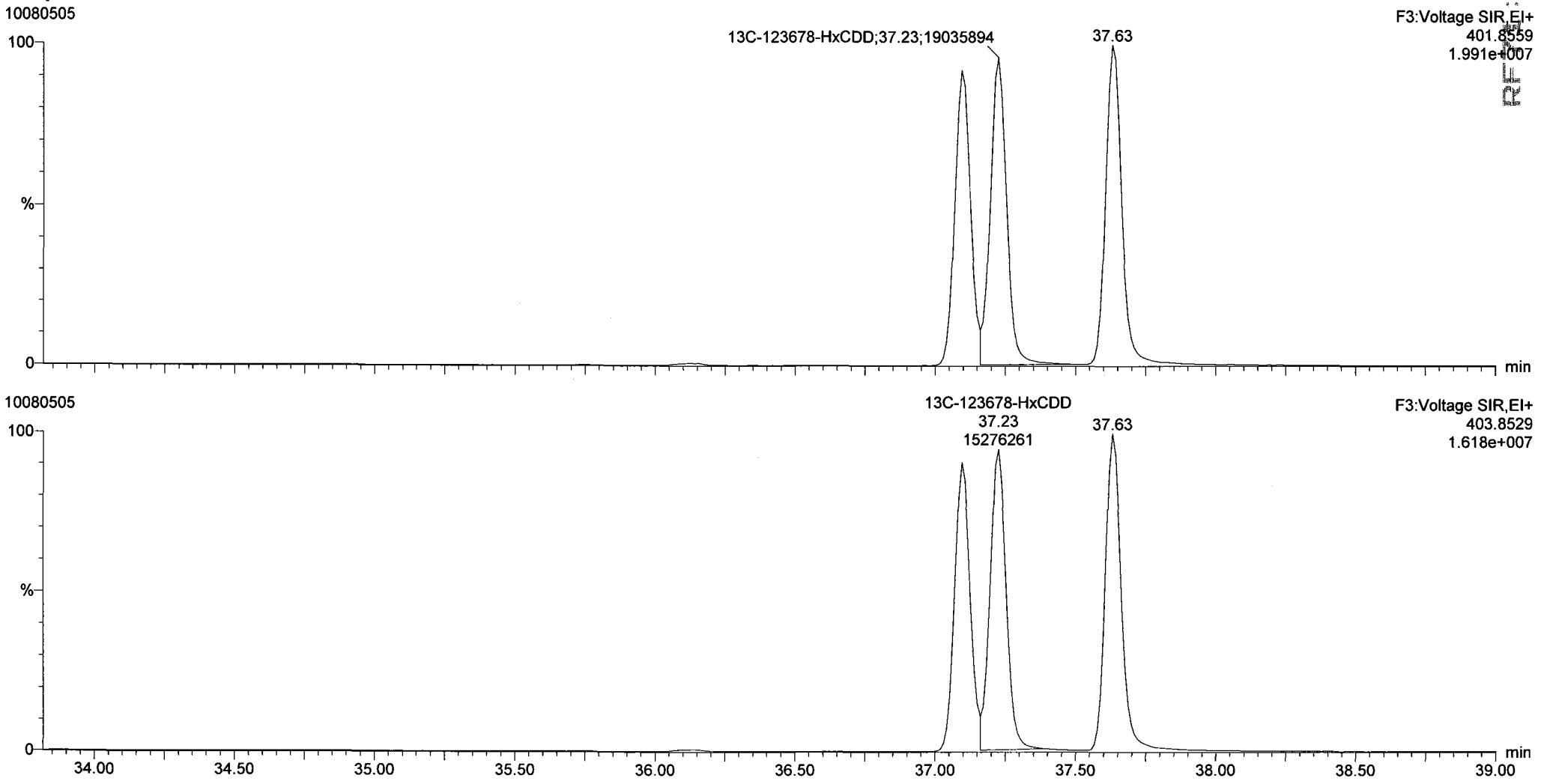


Height	1° Ht	RRF Mean	Std. Conc
18288336	14613522	0.965	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-123678-HxCDD

Sample Name: 10080505

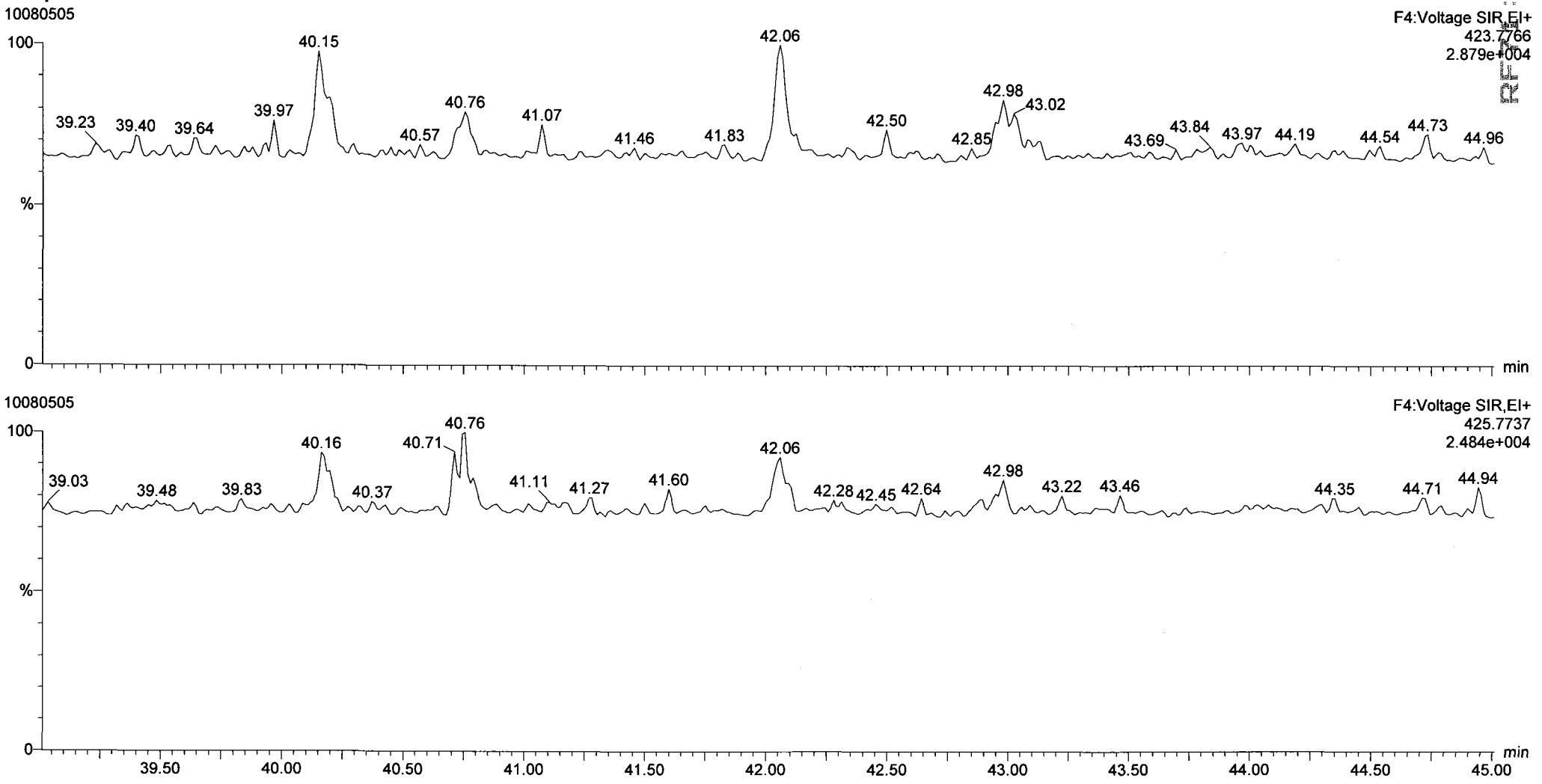


Height	1° Ht	RRF Mean	Std. Conc
19035894	15276261	1.072	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 1234678-HpCDD

Sample Name: 10080505

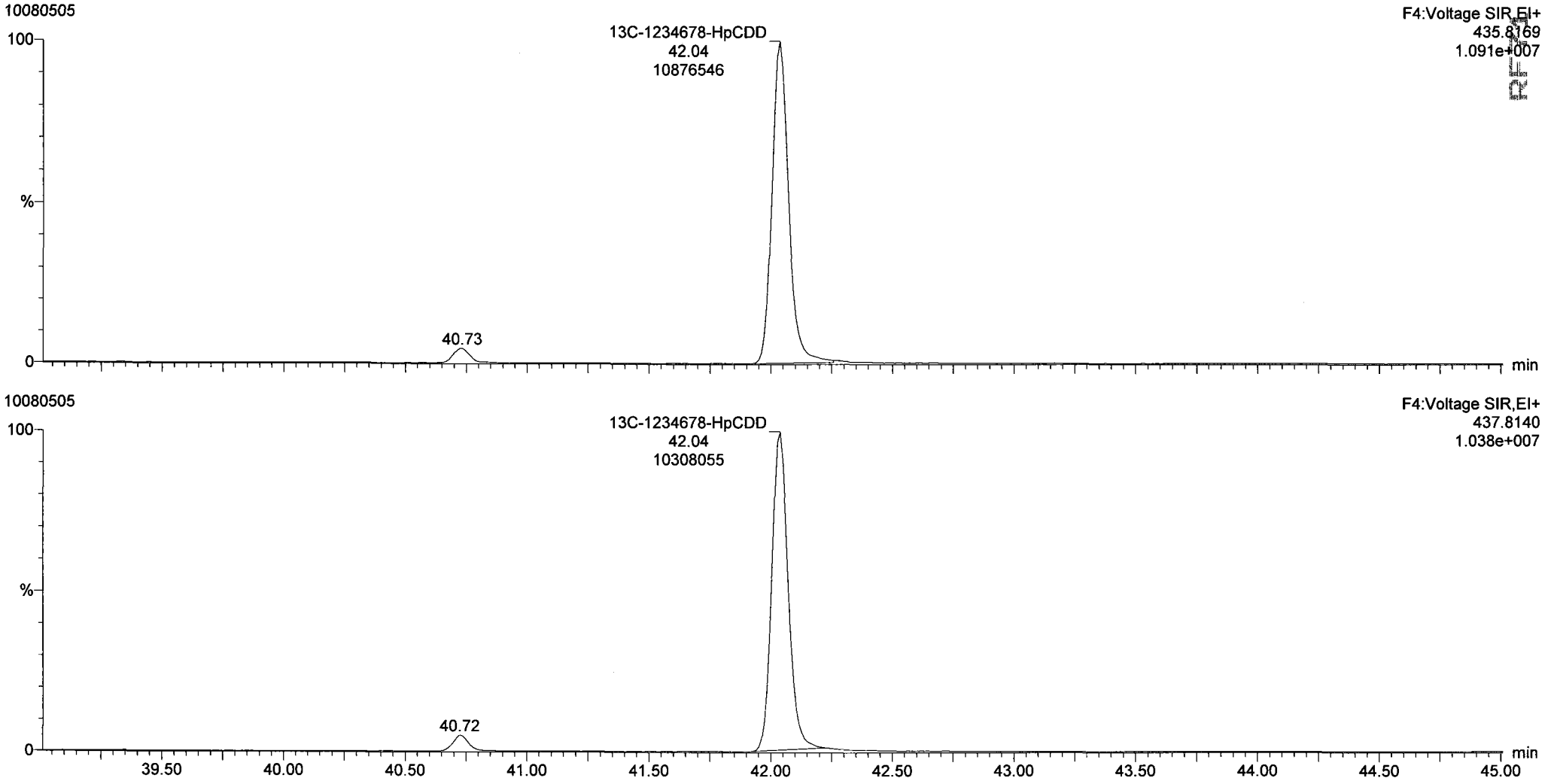


Height	1° Ht	RRF Mean	Std. Conc
		0.982	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-1234678-HpCDD

Sample Name: 10080505

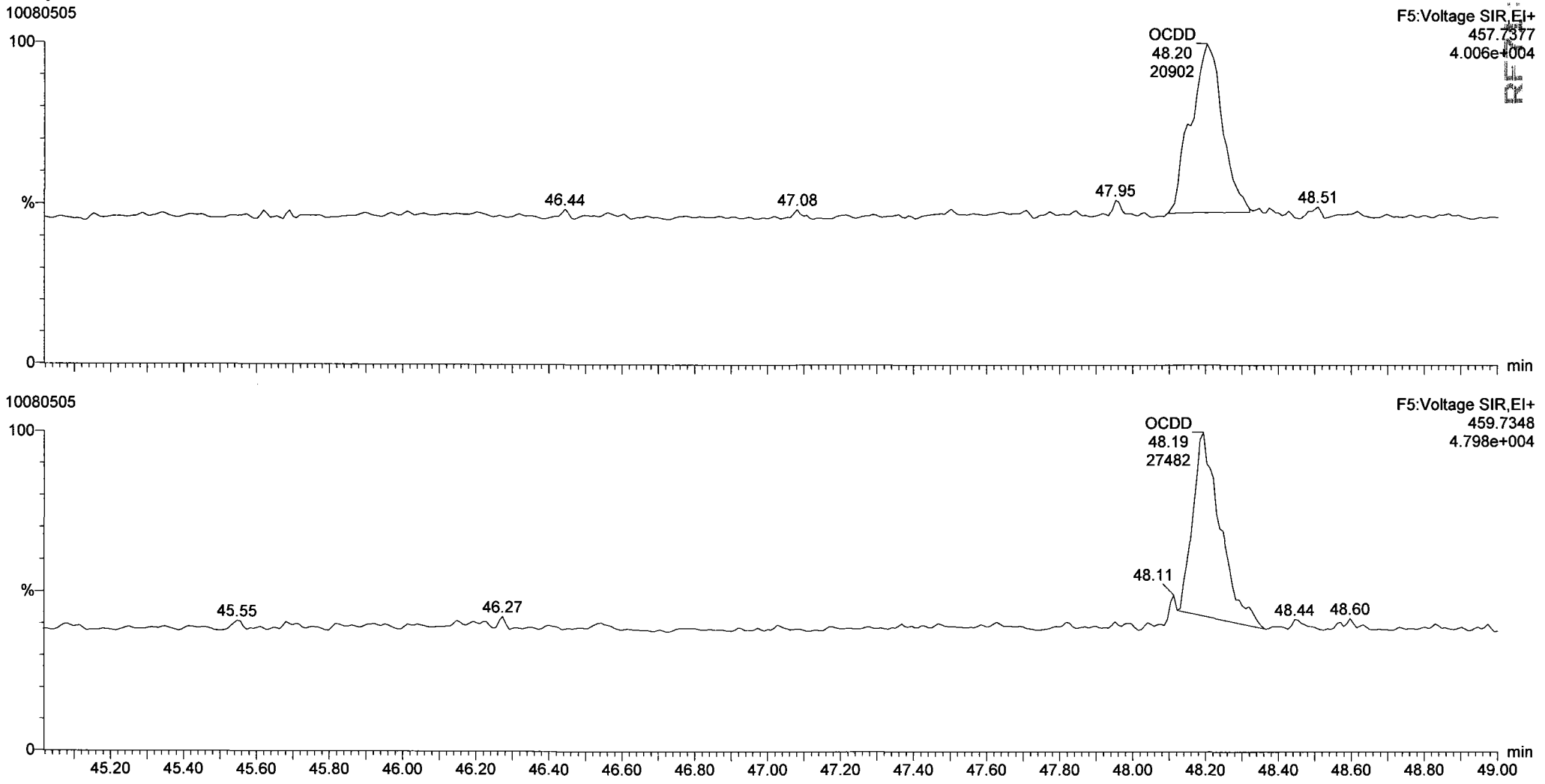


Height	1º Ht	RRF Mean	Std. Conc
10876546	10308055	0.806	100

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: OCDD

Sample Name: 10080505

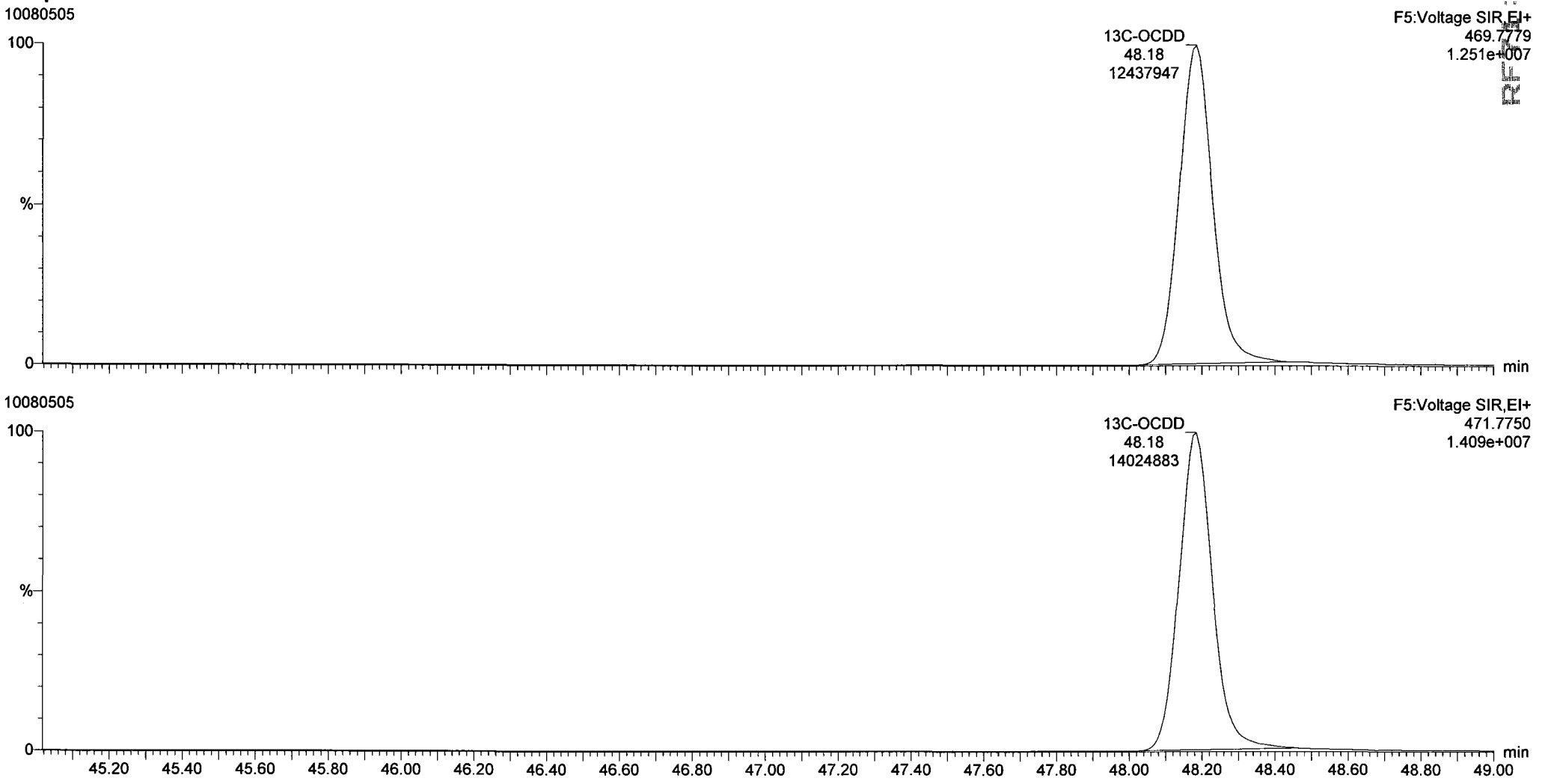


Height	1° Ht	RRF Mean	Std. Conc
20902	27482	0.985	

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 12:56:29 Pacific Daylight Time

Compound Name: 13C-OCDD

Sample Name: 10080505



Height	1° Ht	RRF Mean	Std. Conc
12437947	14024883	0.814	200

Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

DL 14 : 6678 6978

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Lab: , Conditions: METHOD 8290A, User: VTS

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1°...	EMPC
1	1	2378-TCDF	303.9016	26.75	26.74	370399	0.871		13.93	bb		0.76	0.77	NO	13.93
2	2	12378-PeCDF	339.8597	30.89	30.87	1554124	0.890		58.05	bd		1.52	1.55	NO	58.05
3	3	23478-PeCDF	339.8597	32.23	32.21	1289674	0.913		58.61	bb		1.55	1.55	NO	58.61
4	4	123478-HxCDF	373.8208	35.89	35.88	1093350	1.087		57.70	bd		1.24	1.24	NO	57.70
5	5	234678-HxCDF	373.8208	36.97	36.96	1155706	1.066		57.31	bb		1.22	1.24	NO	57.31
6	6	123678-HxCDF	373.8208	36.04	36.02	1437500	1.043		58.91	db		1.22	1.24	NO	58.91
7	7	123789-HxCDF	373.8208	38.07	38.06	767560	1.001		58.29	bd		1.22	1.24	NO	58.29
8	8	1234678-HpCDF	407.7818	40.17	40.16	1651950	1.234		96.57	bb		1.02	1.05	NO	96.57
9	9	1234789-HpCDF	407.7818	42.98	42.97	702608	1.233		59.53	bd		0.99	1.05	NO	59.53
10	10	OCDF	441.7428	48.49	48.46	1231586	1.128		76.89	bd		0.88	0.89	NO	76.89
11	11	2378-TCDD	319.8965	27.38	27.36	303566	1.041		11.64	bb		0.74	0.77	NO	11.64
12	12	12378-PeCDD	355.8546	32.48	32.46	1204696	0.969		58.50	bb		1.54	1.55	NO	58.50
13	13	123478-HxCDD	389.8157	37.11	37.09	1138004	0.967		58.21	bd		1.23	1.24	NO	58.21
14	14	123678-HxCDD	389.8157	37.24	37.21	1148983	0.893		58.29	dd		1.22	1.24	NO	58.29
15	15	123789-HxCDD	389.8157	37.64	37.66	1085019	0.909		56.46	bb		1.22	1.24	NO	56.46
16	16	1234678-HpCDD	423.7766	42.05	42.03	962134	0.982		59.63	bb		1.04	1.05	NO	59.63
17	17	OCDD	457.7377	48.19	48.18	1616325	0.985		115.55	bb		0.90	0.89	NO	115.55
18	18	13C-2378-TCDF	315.9419	26.74	26.74	3051248	1.608		64.17	bb	64.2	0.78	0.77	NO	
19	19	13C-12378-PeCDF	351.9000	30.87	30.88	3008783	1.281		79.47	bb	79.5	1.57	1.55	NO	
20	20	13C-23478-PeCDF	351.9000	32.21	32.22	2409693	1.261		64.63	bb	64.6	1.56	1.55	NO	
21	21	13C-123478-HxCDF	383.8639	35.88	35.88	1744024	1.131		67.38	bd	67.4	0.51	0.51	NO	
22	22	13C-123678-HxCDF	383.8639	36.02	36.03	2339420	1.260		81.10	db	81.1	0.52	0.51	NO	
23	23	13C-234678-HxCDF	383.8639	36.96	36.96	1892382	1.193		69.29	bb	69.3	0.53	0.51	NO	
24	24	13C-123789-HxCDF	383.8639	38.06	38.06	1315935	1.097		52.41	bb	52.4	0.51	0.51	NO	
25	25	13C-1234678-HpCDF	417.8253	40.16	40.16	1385807	0.934		64.81	bb	64.8	0.45	0.44	NO	
26	26	13C-1234789-HpCDF	417.8253	42.97	42.97	956946	0.760		54.99	bb	55.0	0.45	0.44	NO	
27	27	13C-1234-TCDD	331.9368	26.56	26.54	2956396	1.000		100.00	bb	100.0	0.79	0.77	NO	
28	28	13C-2378-TCDD	331.9368	27.36	27.38	2503838	1.041		81.38	bb	81.4	0.77	0.77	NO	
29	29	13C-12378-PeCDD	367.8949	32.46	32.47	2124543	0.847		84.86	bb	84.9	1.55	1.55	NO	
30	30	13C-123478-HxCDD	401.8559	37.09	37.09	2022631	0.965		91.52	bd	91.5	1.27	1.24	NO	
31	31	13C-123678-HxCDD	401.8559	37.21	37.23	2207052	1.072		89.96	dd	90.0	1.24	1.24	NO	
32	32	13C-1234678-HpCDD	435.8169	42.03	42.04	1642846	0.806		89.03	bb	89.0	1.04	1.05	NO	
33	33	13C-OCDD	469.7779	48.18	48.18	2839744	0.814		152.29	bd	76.1	0.89	0.89	NO	

B

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

RF71-66754

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Lab: , Conditions: METHOD 8290A, User: VTS

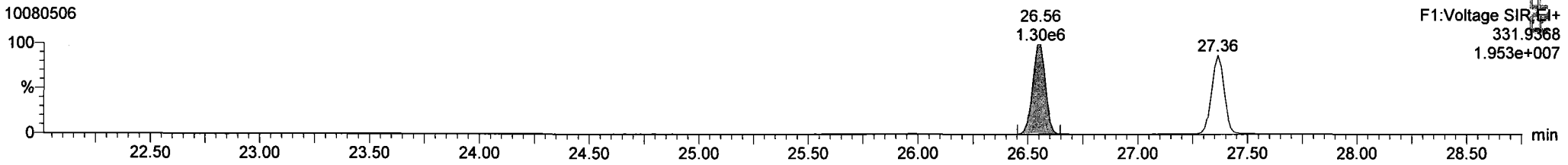
	#Name	Trace		RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1°	EMPC
34	34 13C-123789-HxCDD	401.8559		37.63	37.62	2289457	1.000		100.00	bb	100.0	1.25	1.24	NO	
35	35 Total-tetrafurans	303.9016			0.00		0.871		22.53						
36	36 Total-penta1	339.8597			28.08		1.141						1.55		
37	37 Total-pentafurans	339.8597			0.00		0.901		133.22						
38	38 Total-hexafurans	373.8208			0.00		1.049		238.97						
39	39 Total-heptafurans	407.7818			0.00		1.234		157.03						
40	40 Total-Furans	303.9016			0.00		1.055		628.63						
41	41 Total-tetradioxins	319.8965			0.00		1.041		12.22						
42	42 Total-pentadioxins	355.8546			0.00		0.969		59.71						
43	43 Total-hexadioxins	389.8157			0.00		0.923		173.67						
44	44 Total-heptadioxins	423.7766			0.00		0.982		61.46						
45	45 Total-Dioxins	319.8965			0.00		0.964		422.60						
46	46 Total-TEQ	319.8965			0.00				1051.23						
47	47 37CL-2378-TCDD	327.8847		27.38	27.39	1256794	1.166		36.46						
48	48 FUNCTION1 PFK	330.9792			0.00										
49	49 FUNCTION2 PFK	366.9792			0.00				0.00						
50	50 FUNCTION3 PFK	380.9760			0.00				0.00						
51	51 FUNCTION4 PFK	430.9728			0.00										
52	52 FUNCTION5 PFK	480.9696			0.00										
53	53 FUNCTION1 HXCDPE	375.8364			0.00										
54	54 FUNCTION1 HPCDPE	409.7974			0.00										
55	55 FUNCTION2 HPCDPE	409.7974			0.00										
56	56 FUNCTION3 OCDPE	445.7555			0.00										
57	57 FUNCTION4 NCDPE	479.7165			0.00										
58	58 FUNCTION5 DCDPE	513.6775			0.00										

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

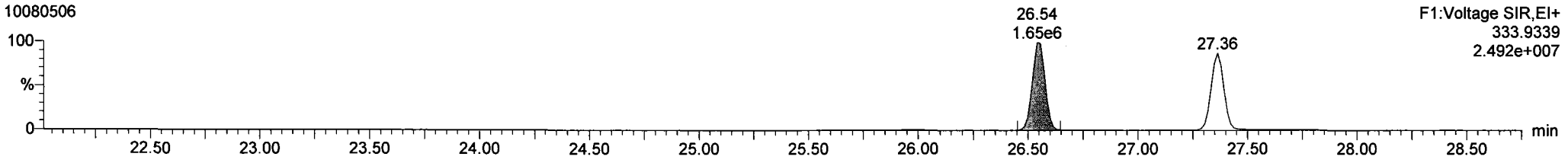
Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

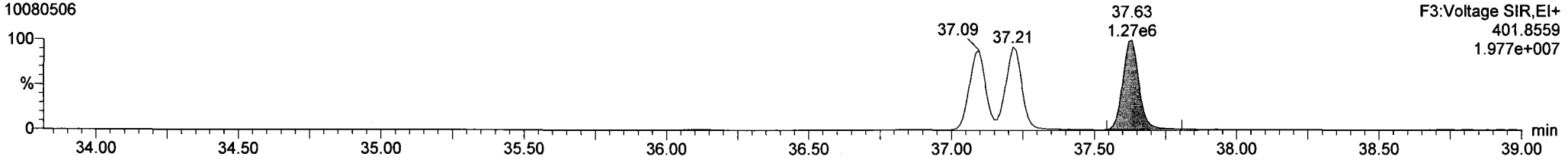
13C-1234-TCDD



13C-1234-TCDD



13C-123789-HxCDD



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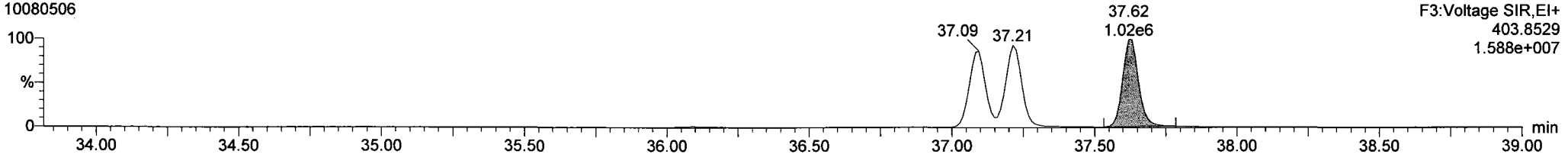

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
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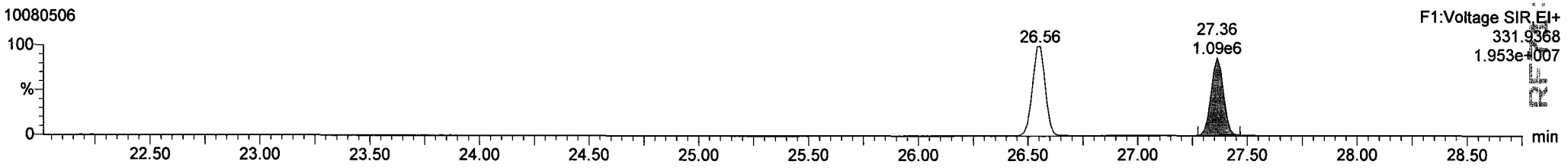
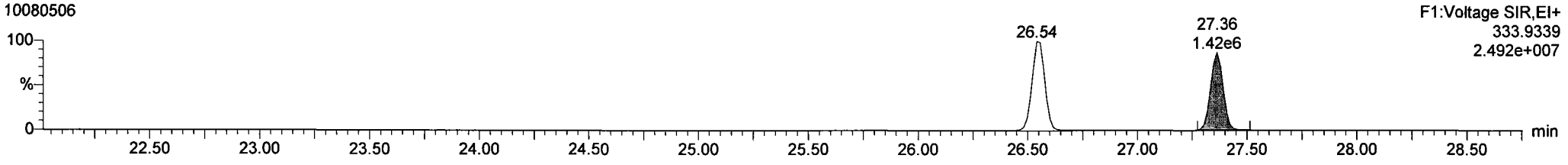
Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

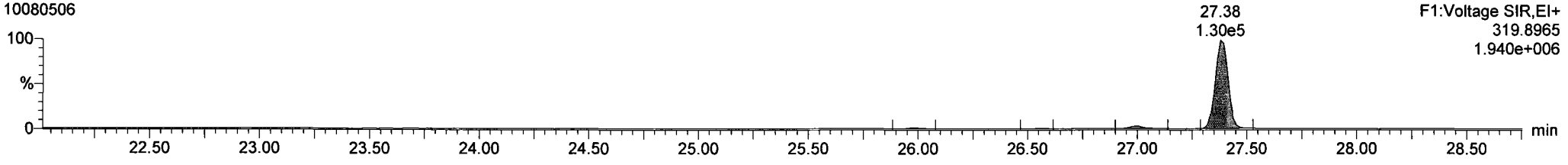
13C-2378-TCDD



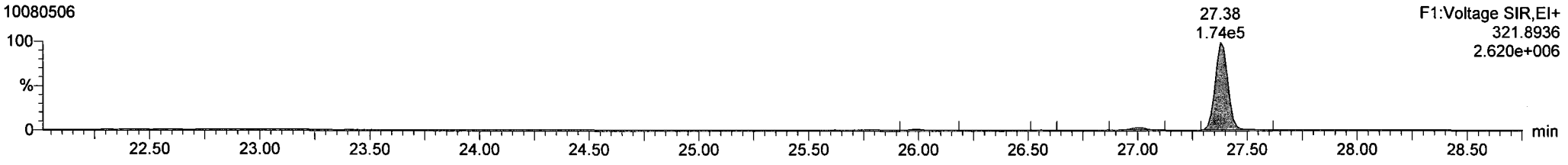
13C-2378-TCDD



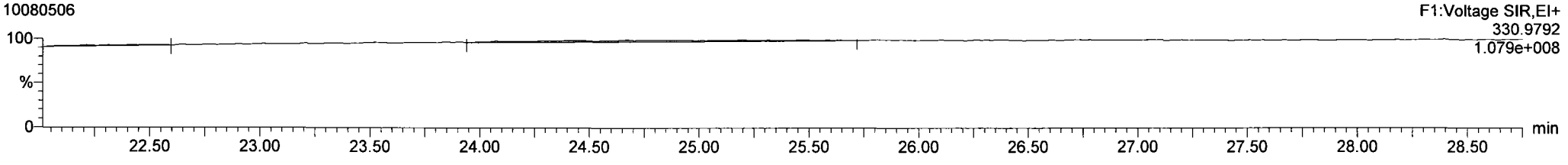
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

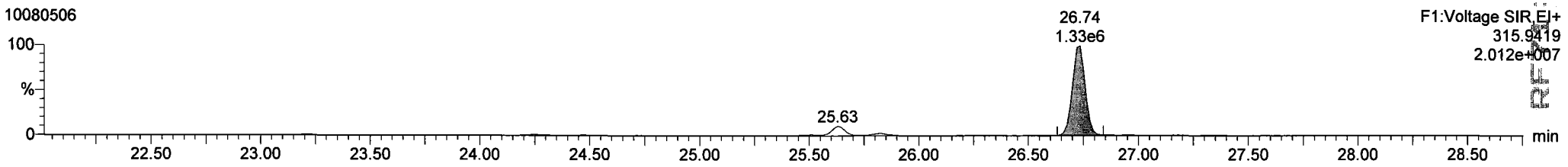


Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

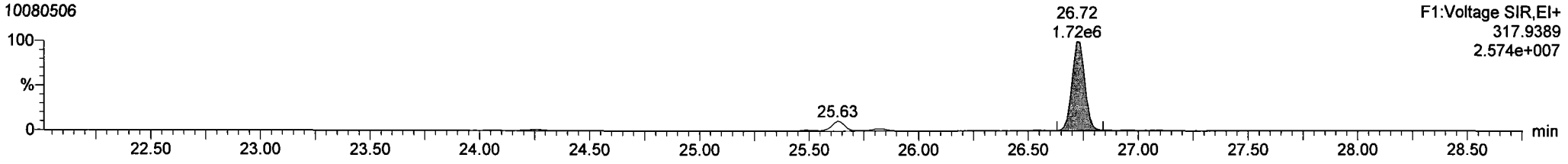
Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

RF71OPR.D

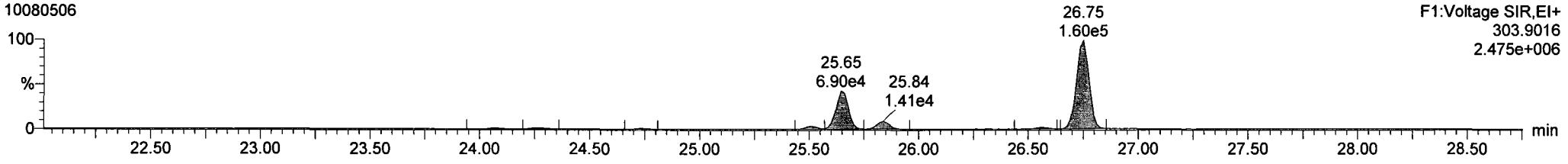
13C-2378-TCDF



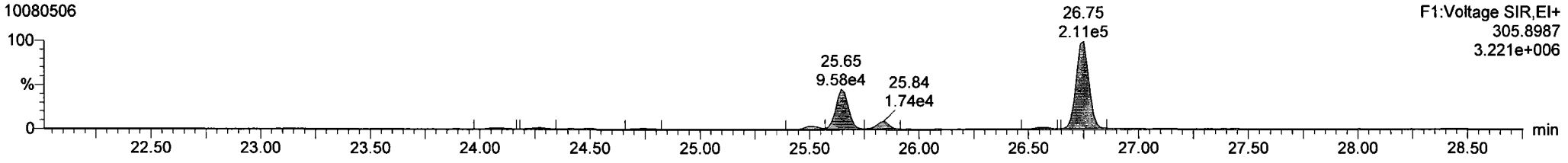
13C-2378-TCDF



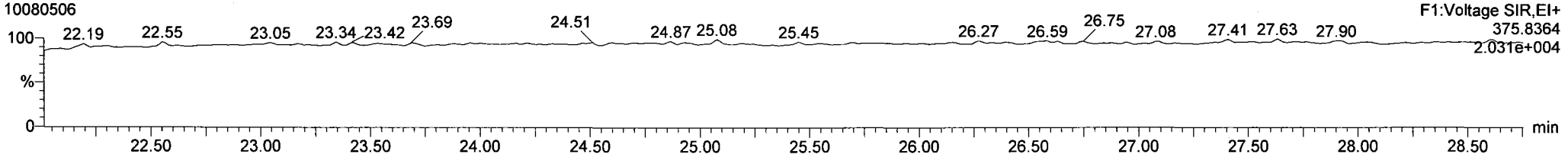
Total-tetrafurans



Total-tetrafurans



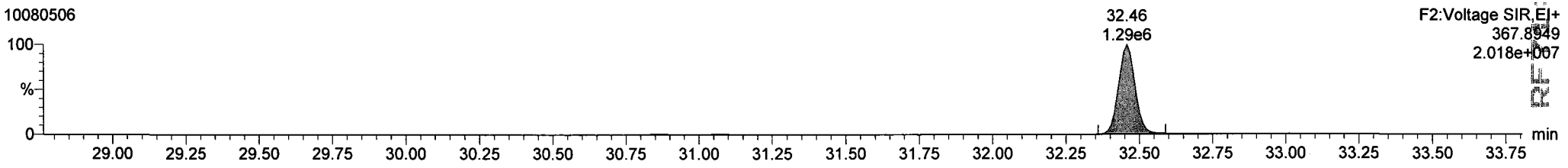
FUNCTION1 HXCDPE



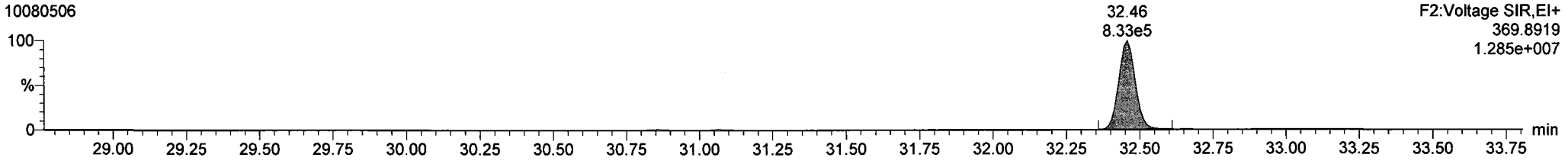
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

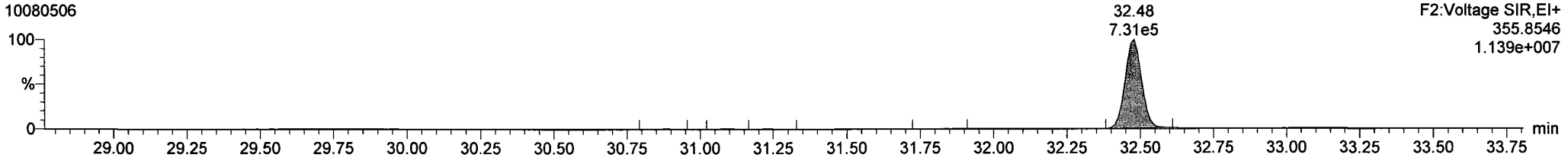
13C-12378-PeCDD



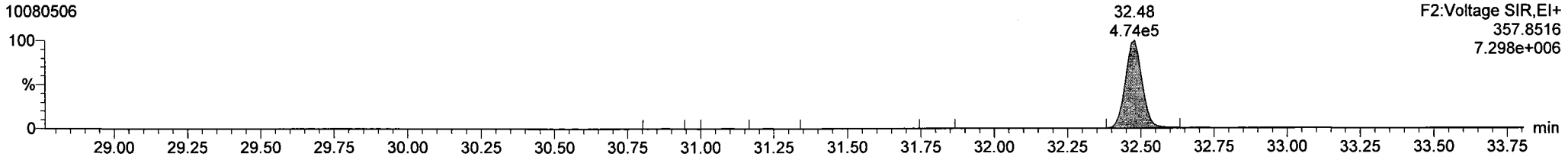
13C-12378-PeCDD



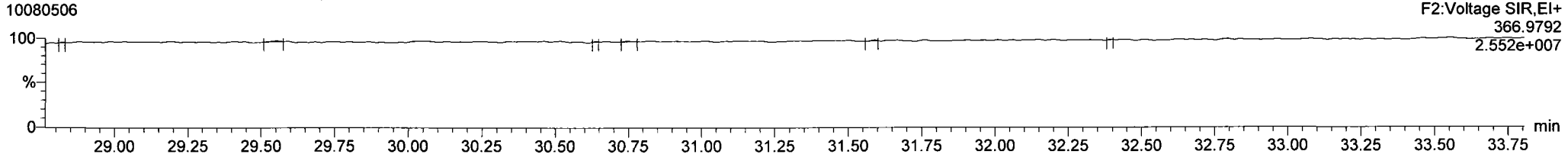
Total-pentadioxins



Total-pentadioxins



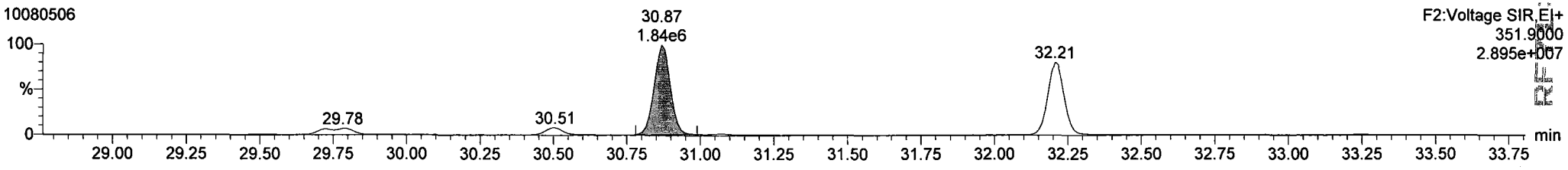
FUNCTION2 PFK



Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

13C-12378-PeCDF



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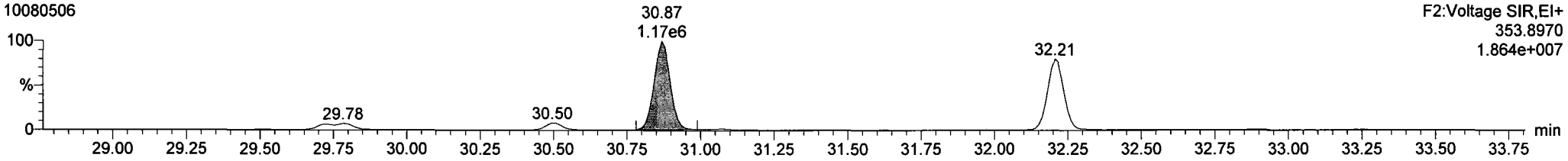

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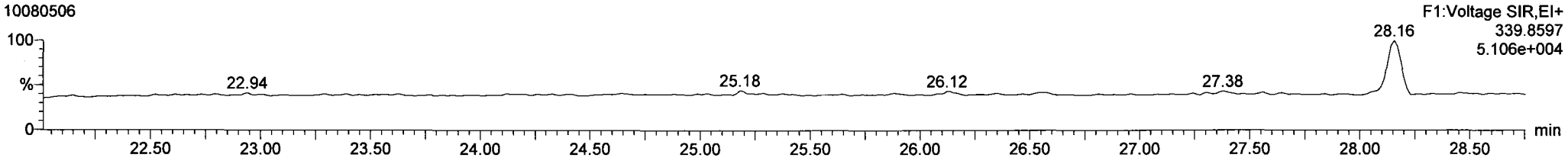

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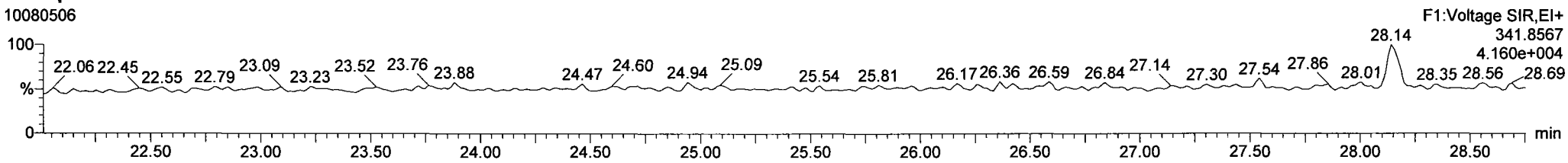
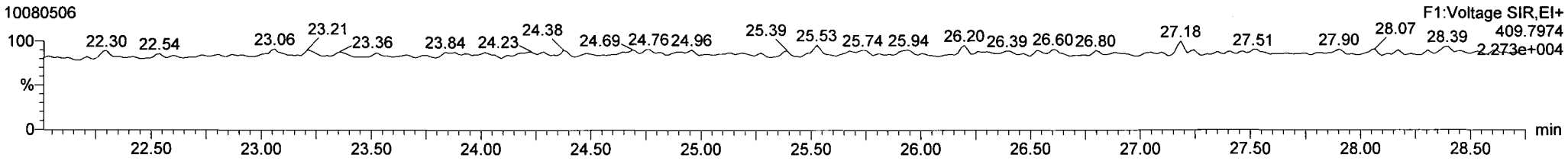


FUNCTION1 HPCDPE



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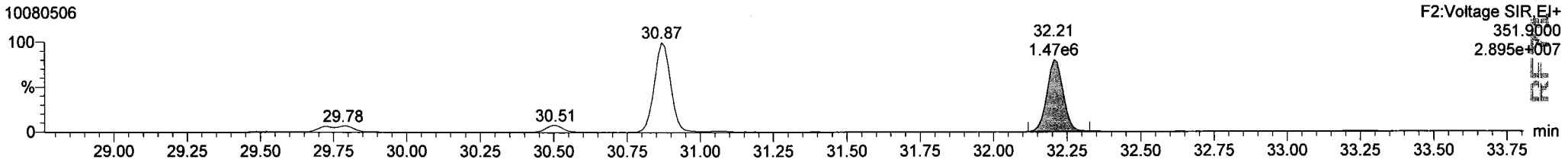
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

13C-23478-PeCDF



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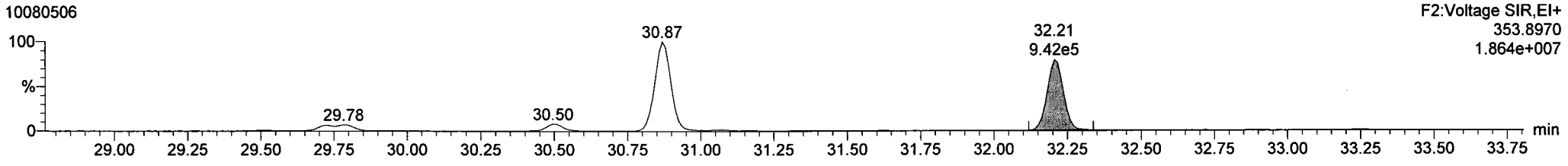

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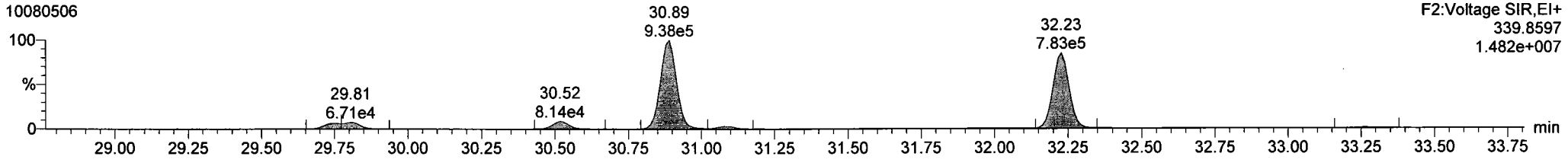
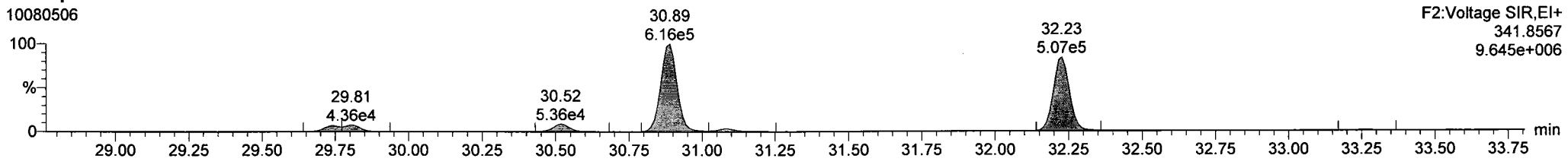
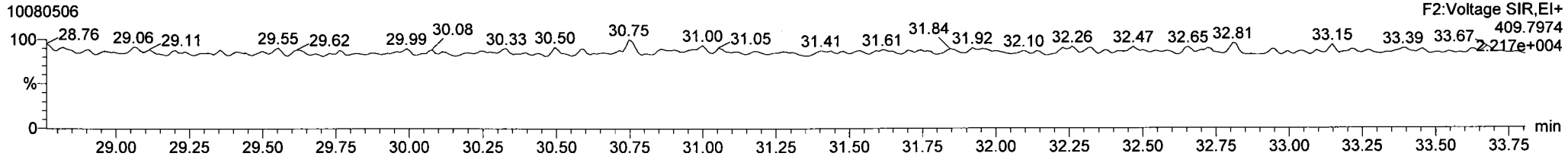


Total-pentafurans



FUNCTION2 HPCDPE



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Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
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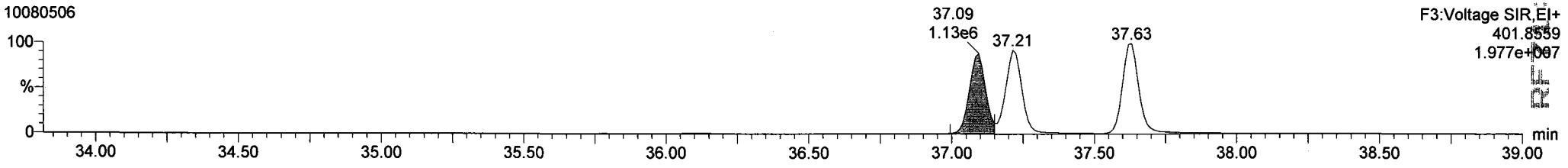
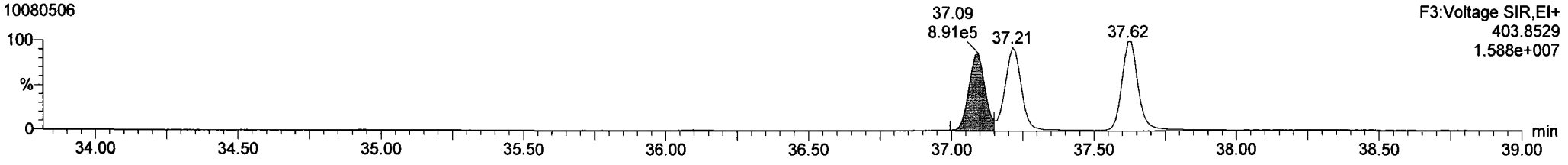
Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

RF 66769

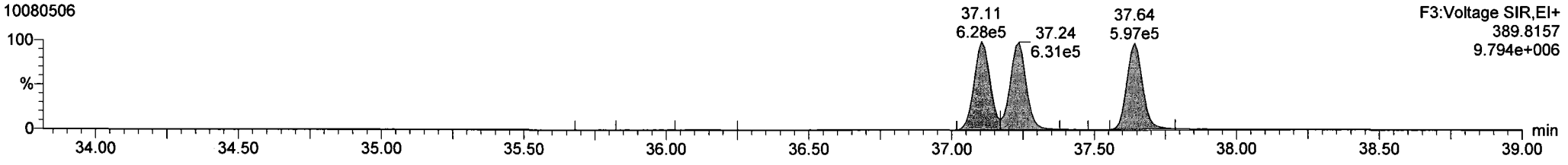
13C-123478-HxCDD



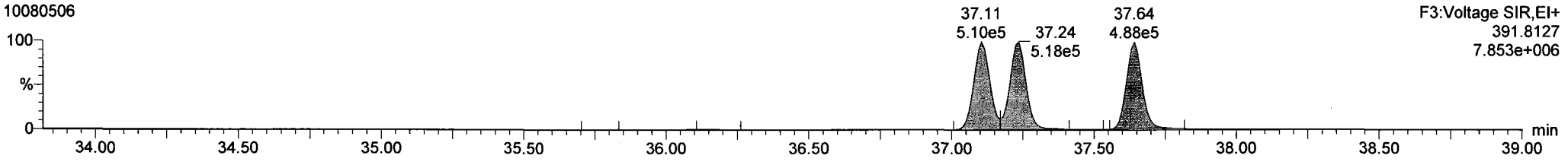
13C-123478-HxCDD



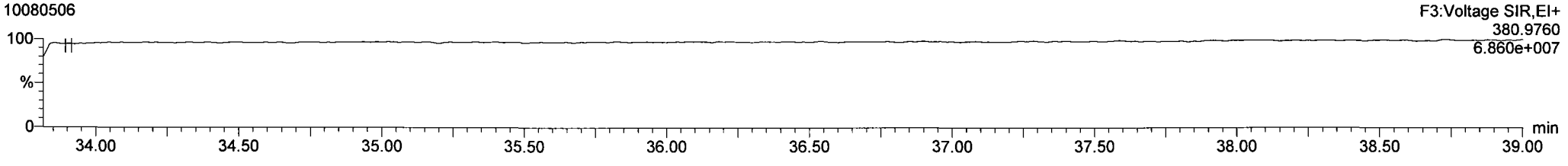
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



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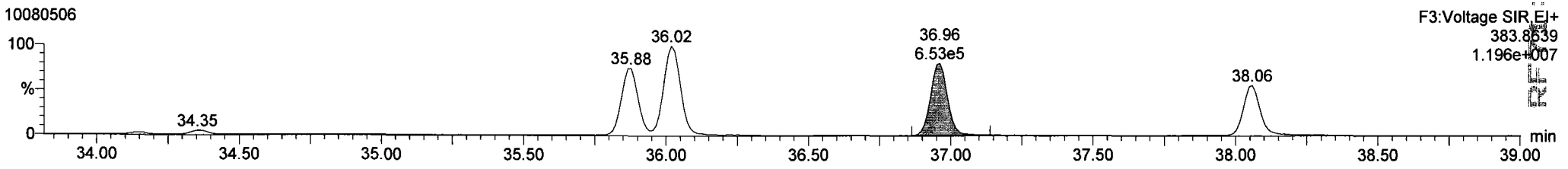
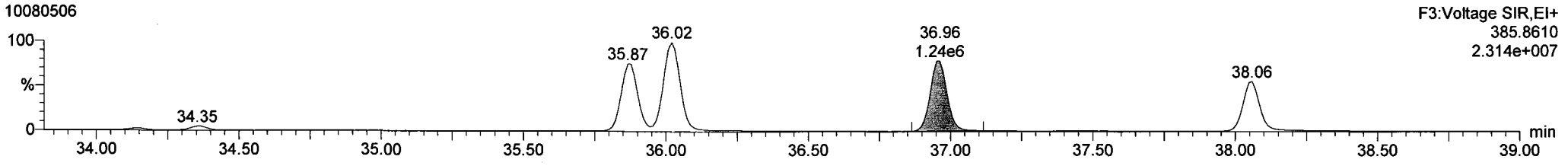
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

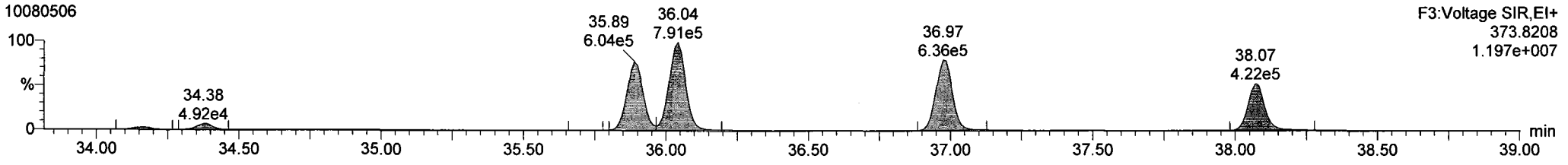
13C-234678-HxCDF



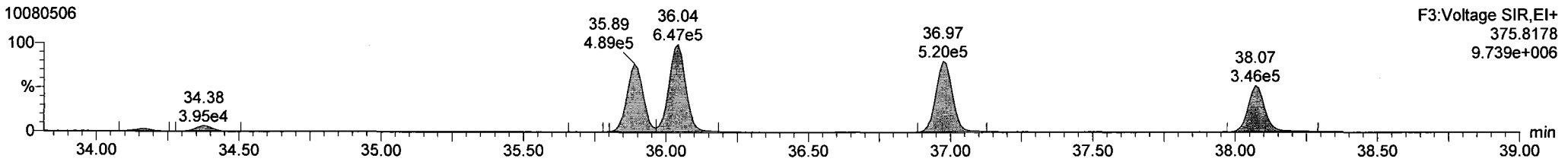
13C-234678-HxCDF



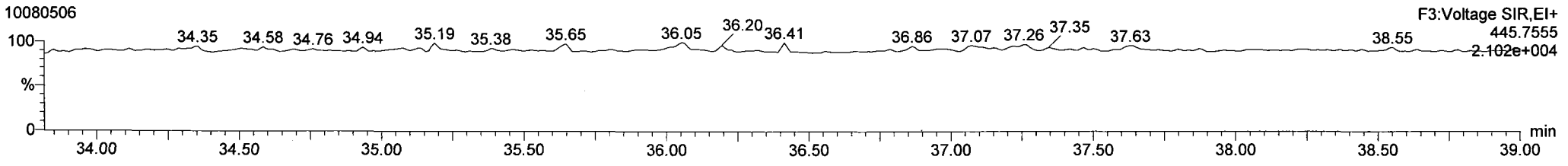
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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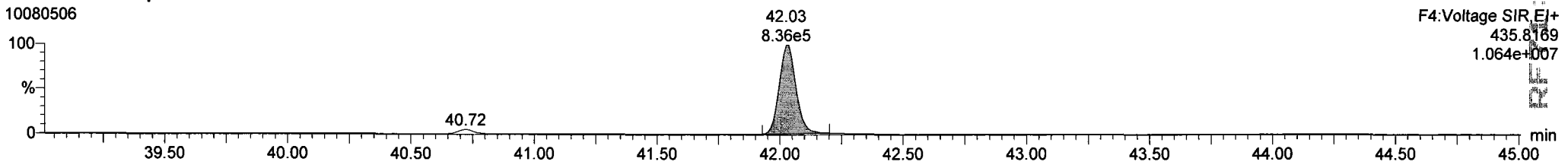
Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

13C-1234678-HpCDD



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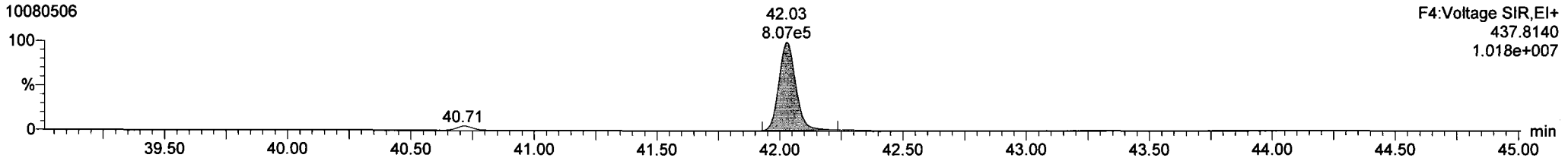
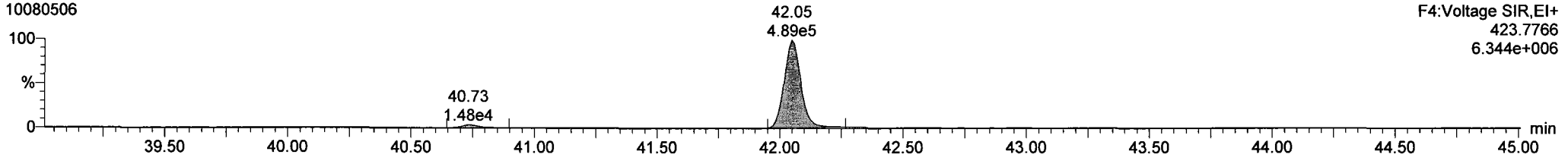
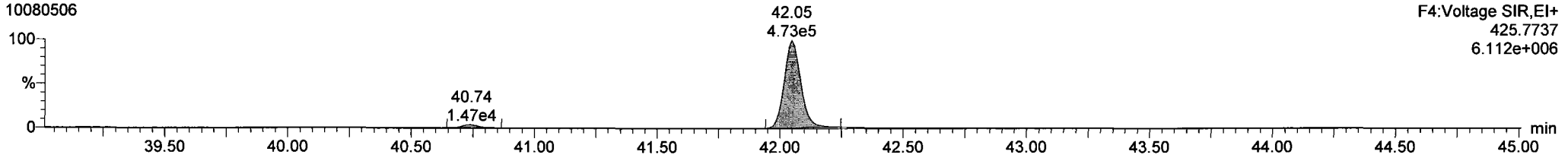


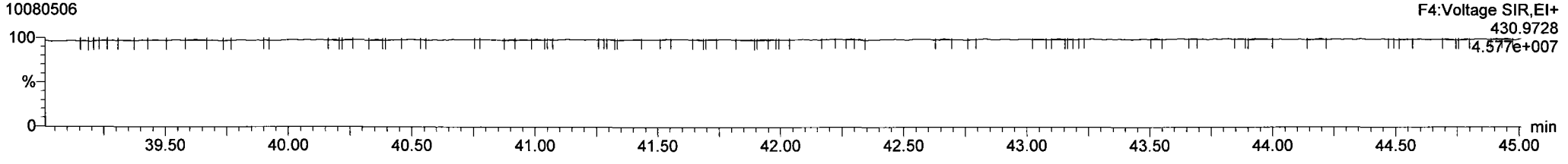
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
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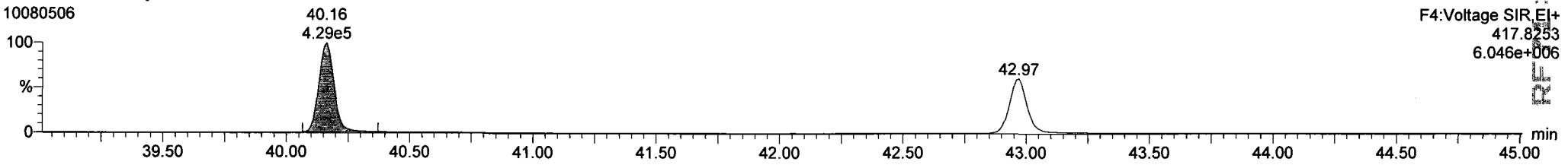
Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

13C-1234678-HpCDF



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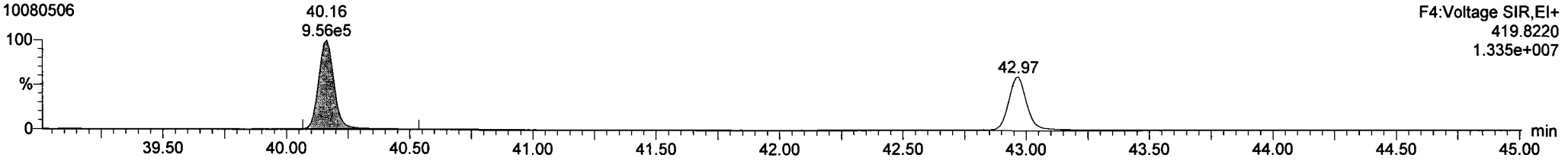
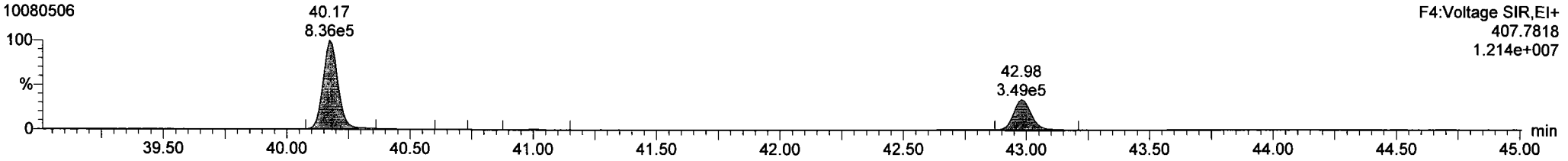
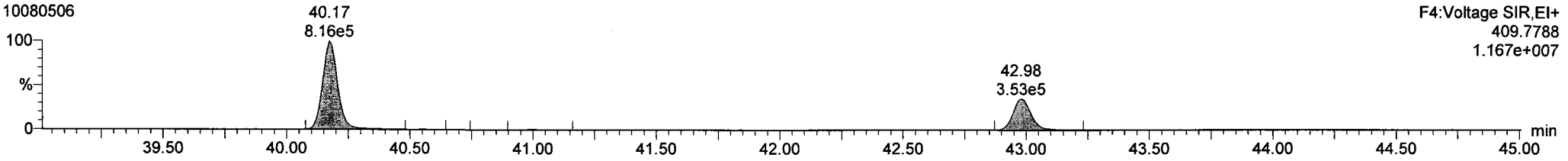


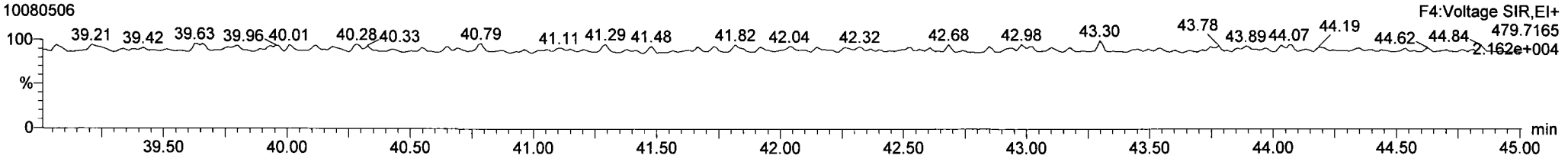
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



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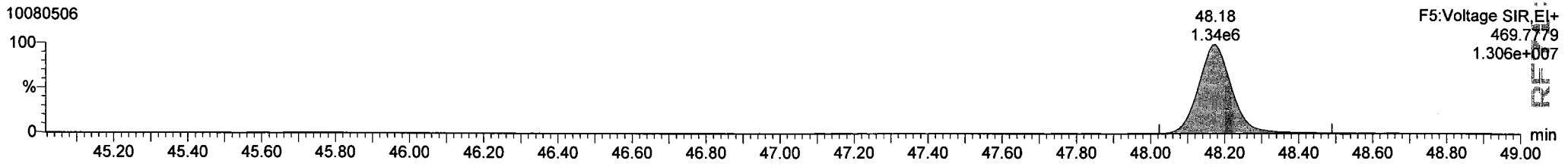
RF71_0712

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

13C-OCDD



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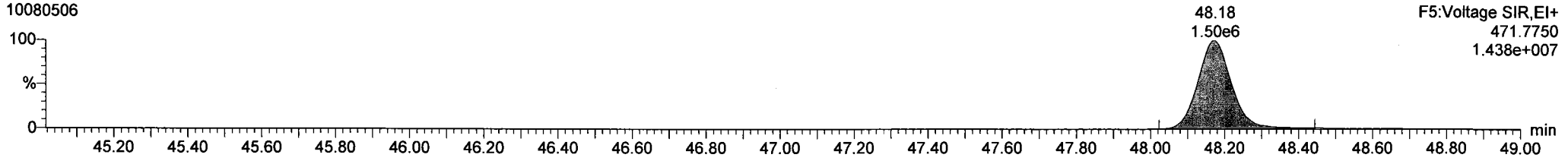
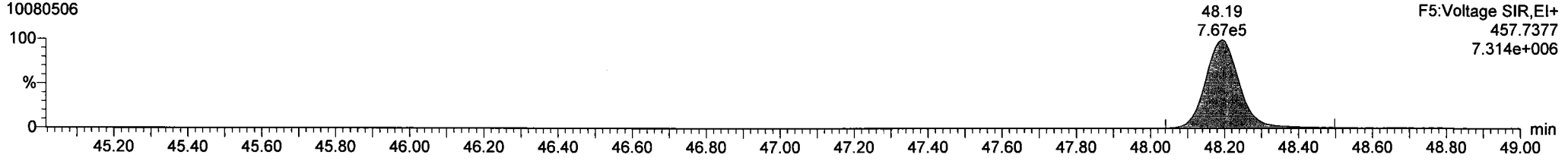
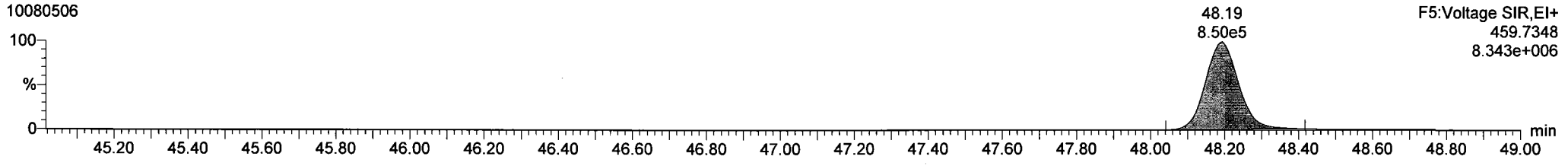


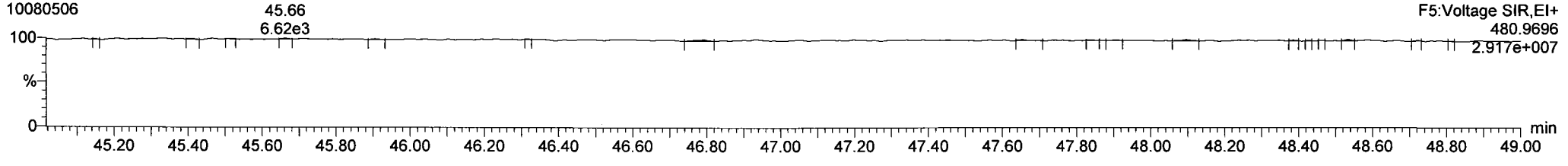
OCDD



OCDD



FUNCTION5 PFK



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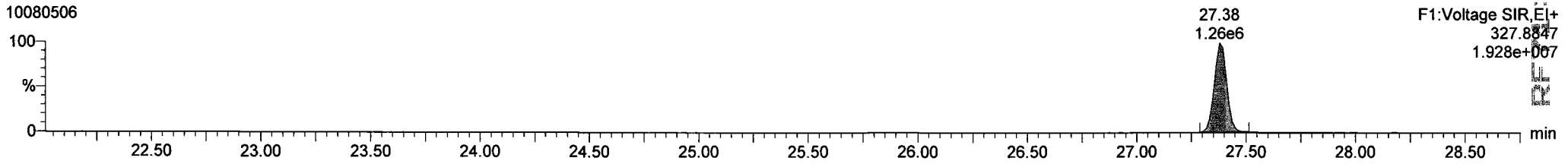
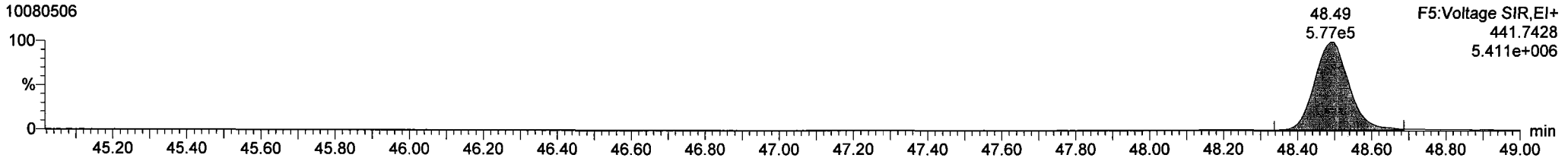
Printed: Saturday, August 07, 2010 14:19:30 Pacific Daylight Time

Name: 10080506, Date: 05-Aug-2010, Time: 15:34:04, ID: RF71OPR, Description: , Lab: , User: VTS

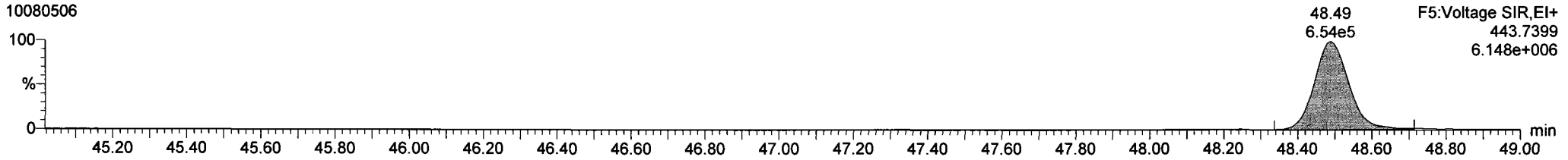
37CL-2378-TCDD



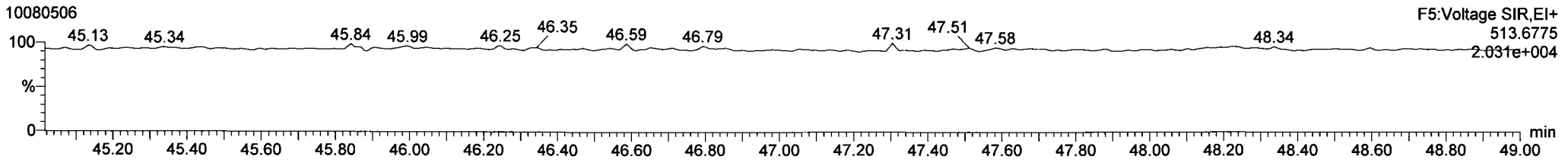
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx 4.1 SCN 714**
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Printed: Saturday, August 07, 2010 14:24:37 Pacific Daylight Time

Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

Name: 10080507, Date: 05-Aug-2010, Time: 16:46:26, ID: RF71A, Lab: , Conditions: METHOD 8290A, User: VTS

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1° Ratio...	1° Rati...	1° ...	EMPC	
1	1	2378-TCDF	303.9016	26.75	26.74	158210	0.871		4.47	bd		0.75	0.77	NO	4.47	
2	2	12378-PeCDF	339.8597	30.89	30.88	77447	0.890		2.59	bd		1.54	1.55	NO	2.59	
3	3	23478-PeCDF	339.8597	32.24	32.22	66323	0.913		2.33	db		1.50	1.55	NO	2.33	
4	4	123478-HxCDF	373.8208	35.90	35.88	211300	1.087		7.80	dd		1.24	1.24	NO	7.80	
5	5	234678-HxCDF	373.8208	36.95	36.96	250474	1.066		9.13	bb		1.22	1.24	NO	9.13	
6	6	123678-HxCDF	373.8208	36.04	36.03	252071	1.043		8.77	db		1.22	1.24	NO	8.78	
7	7	123789-HxCDF	373.8208	38.05	38.06	52923	1.001		2.40	bb		1.25	1.24	NO	2.40	
8	8	1234678-HpCDF	407.7818	40.19	40.16	3883795	1.234		152.58	bb		1.02	1.05	NO	152.58	
9	9	1234789-HpCDF	407.7818	42.98	42.97	170574	1.233		8.96	bb		1.02	1.05	NO	8.96	
10	10	OCDF	441.7428	48.52	48.50	4989369	1.128		214.04	bd		0.87	0.89	NO	214.04	
11	11	2378-TCDD	319.8965	27.39	27.38	28494	1.041		1.03	bd		0.79	0.77	NO	1.03	
12	12	12378-PeCDD	355.8546	32.48	32.47	61642	0.969		2.97	bb		1.56	1.55	NO	2.98	
13	13	123478-HxCDD	389.8157	37.11	37.09	135798	0.967		6.45	bd		1.34	1.24	NO	6.45	
14	14	123678-HxCDD	389.8157	37.24	37.23	726504	0.893		35.04	dd		1.22	1.24	NO	35.04	
15	15	123789-HxCDD	389.8157	37.64	37.67	406252	0.909		19.87	bb		1.24	1.24	NO	19.87	
16	16	1234678-HpCDD	423.7766	42.06	42.04	26456747	0.982		1346.67	bb		1.04	1.05	NO	1346.67	E
17	17	OCDD	457.7377	48.23	48.21	207881040	0.985		10211.60	bb		0.91	0.89	NO	10211....	B, E
18	18	13C-2378-TCDF	315.9419	26.74	26.74	4060174	1.608		81.67	bb	81.7	0.78	0.77	NO		
19	19	13C-12378-PeCDF	351.9000	30.88	30.88	3362625	1.281		84.94	bb	84.9	1.56	1.55	NO		
20	20	13C-23478-PeCDF	351.9000	32.22	32.22	3119668	1.261		80.02	bb	80.0	1.56	1.55	NO		
21	21	13C-123478-HxCDF	383.8639	35.88	35.88	2493540	1.131		88.73	bd	88.7	0.51	0.51	NO		
22	22	13C-123678-HxCDF	383.8639	36.03	36.03	2754178	1.260		87.95	db	87.9	0.53	0.51	NO		
23	23	13C-234678-HxCDF	383.8639	36.96	36.96	2572901	1.193		86.78	bb	86.8	0.52	0.51	NO		
24	24	13C-123789-HxCDF	383.8639	38.06	38.06	2204609	1.097		80.87	bb	80.9	0.52	0.51	NO		
25	25	13C-1234678-HpCDF	417.8253	40.16	40.16	2062024	0.934		88.82	bb	88.8	0.45	0.44	NO		
26	26	13C-1234789-HpCDF	417.8253	42.97	42.97	1543861	0.760		81.72	bb	81.7	0.45	0.44	NO		
27	27	13C-1234-TCDD	331.9368	26.56	26.54	3091363	1.000		100.00	bb	100.0	0.78	0.77	NO		
28	28	13C-2378-TCDD	331.9368	27.38	27.38	2656646	1.041		82.57	bb	82.6	0.78	0.77	NO		
29	29	13C-12378-PeCDD	367.8949	32.47	32.47	2137885	0.847		81.66	bb	81.7	1.57	1.55	NO		
30	30	13C-123478-HxCDD	401.8559	37.09	37.09	2178866	0.965		90.80	bd	90.8	1.25	1.24	NO		
31	31	13C-123678-HxCDD	401.8559	37.23	37.23	2321668	1.072		87.16	db	87.2	1.24	1.24	NO		
32	32	13C-1234678-HpCDD	435.8169	42.04	42.04	2000342	0.806		99.85	bb	99.8	1.03	1.05	NO		
33	33	13C-OCDD	469.7779	48.21	48.18	4132690	0.814		204.13	bb	102.1	0.89	0.89	NO		

Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
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Name: 10080507, Date: 05-Aug-2010, Time: 16:46:26, ID: RF71A, Lab: , Conditions: METHOD 8290A, User: VTS

	#	Name	Trace	RT	Pred.RT	Abs.Resp	RRF	Me...	pg	1° Det...	%Rec	1°Ratio...	1°Rati...	1°...	EMPC
34	34	13C-123789-HxCDD	401.8559	37.63	37.62	2485669	1.000		100.00	bb	100.0	1.22	1.24	NO	
35	35	Total-tetrafurans	303.9016		0.00		0.871		73.80						
36	36	Total-penta1	339.8597	28.17	28.08	2162817	1.141		58.50	bb		1.55	1.55	NO	
37	37	Total-pentafurans	339.8597		0.00		0.901		~~42.93~~ 101.43						
38	38	Total-hexafurans	373.8208		0.00		1.049		202.26						
39	39	Total-heptafurans	407.7818		0.00		1.234		357.96						
40	40	Total-Furans	303.9016		0.00		1.055		949.49						
41	41	Total-tetradioxins	319.8965		0.00		1.041		82.04						
42	42	Total-pentadioxins	355.8546		0.00		0.969		~~87.01~~ 85.32						
43	43	Total-hexadioxins	389.8157		0.00		0.923		~~287.60~~ 287.2						
44	44	Total-heptadioxins	423.7766		0.00		0.982		2231.47						
45	45	Total-Dioxins	319.8965		0.00		0.964		12899.72						
46	46	Total-TEQ	319.8965		0.00				13849.21						
47	47	37CL-2378-TCDD	327.8847	27.39	27.39	1236553	1.166		34.30						
48	48	FUNCTION1 PFK	330.9792		0.00										
49	49	FUNCTION2 PFK	366.9792		0.00				0.00						
50	50	FUNCTION3 PFK	380.9760		0.00				0.00						
51	51	FUNCTION4 PFK	430.9728		0.00										
52	52	FUNCTION5 PFK	480.9696		0.00										
53	53	FUNCTION1 HXCDPE	375.8364		0.00				0.00						
54	54	FUNCTION1 HPCDPE	409.7974		0.00										
55	55	FUNCTION2 HPCDPE	409.7974		0.00				0.00						
56	56	FUNCTION3 OCDPE	445.7555		0.00				0.00						
57	57	FUNCTION4 NCDPE	479.7165		0.00				0.00						
58	58	FUNCTION5 DCDPE	513.6775		0.00				0.00						

RF71_05-AUG-10

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Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

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TF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1º Rati...	1º Rati...	1º R...	S/N
1	35	Total-tetrafurans	303.9016	25.66	205181.172	0.871		5.80		0.76	0.77	NO	902.7
2	35	Total-tetrafurans	303.9016	25.51	63811.709	0.871		1.80		0.78	0.77	NO	285.5
3	35	Total-tetrafurans	303.9016	25.42	107674.918	0.871		3.04		0.73	0.77	NO	353.1
4	35	Total-tetrafurans	303.9016	25.26	10827.959	0.871		0.31		0.75	0.77	NO	49.0
5	35	Total-tetrafurans	303.9016	25.00	74631.968	0.871		2.11		0.77	0.77	NO	340.6
6	35	Total-tetrafurans	303.9016	24.87	29657.215	0.871		0.84		0.73	0.77	NO	137.6
7	35	Total-tetrafurans	303.9016	24.75	233661.445	0.871		6.60		0.73	0.77	NO	1070.3
8	35	Total-tetrafurans	303.9016	24.60	59624.127	0.871		1.69		0.75	0.77	NO	277.0
9	35	Total-tetrafurans	303.9016	24.51	162374.844	0.871		4.59		0.78	0.77	NO	720.1
10	35	Total-tetrafurans	303.9016	24.41	77719.355	0.871		2.20		0.81	0.77	NO	364.6
11	35	Total-tetrafurans	303.9016	24.29	235455.375	0.871		6.65		0.73	0.77	NO	820.6
12	35	Total-tetrafurans	303.9016	24.09	446706.047	0.871		12.63		0.75	0.77	NO	2029.9
13	35	Total-tetrafurans	303.9016	23.51	73514.031	0.871		2.08		0.74	0.77	NO	328.1
14	35	Total-tetrafurans	303.9016	23.25	162561.055	0.871		4.59		0.74	0.77	NO	772.8
15	35	Total-tetrafurans	303.9016	28.26	11160.009	0.871		0.32		0.86	0.77	NO	60.0
16	35	Total-tetrafurans	303.9016	28.17	33606.797	0.871		0.95		0.98	0.77	YES	134.7
17	35	Total-tetrafurans	303.9016	27.27	4956.698	0.871		0.14		0.74	0.77	NO	20.2
18	35	Total-tetrafurans	303.9016	26.99	97715.312	0.871		2.76		0.74	0.77	NO	375.9
19	35	Total-tetrafurans	303.9016	26.89	32160.916	0.871		0.91		0.77	0.77	NO	147.7
20	1	2378-TCDF	303.9016	26.75	158210.328	0.871		4.47	4.47	0.75	0.77	NO	711.3
21	35	Total-tetrafurans	303.9016	26.57	30077.841	0.871		0.85		1.03	0.77	YES	164.7
22	35	Total-tetrafurans	303.9016	26.53	34639.149	0.871		0.98		0.62	0.77	YES	165.8
23	35	Total-tetrafurans	303.9016	26.39	15967.657	0.871		0.45		0.64	0.77	YES	68.0
24	35	Total-tetrafurans	303.9016	26.26	27813.454	0.871		0.79		0.79	0.77	NO	117.3
25	35	Total-tetrafurans	303.9016	26.08	42198.025	0.871		1.19		0.71	0.77	NO	183.0
26	35	Total-tetrafurans	303.9016	25.85	179283.891	0.871		5.07		0.74	0.77	NO	778.5

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PF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37	Total-pentafurans	339.8597	30.43	49430.483	0.901		1.69		1.48	1.55	NO	197.7
2	37	Total-pentafurans	339.8597	30.25	55727.230	0.901		1.91		1.43	1.55	NO	201.3
3	37	Total-pentafurans	339.8597	30.11	5286.657	0.901		0.18		1.08	1.55	YES	19.7
4	37	Total-pentafurans	339.8597	29.94	8794.198	0.901		0.30		1.76	1.55	NO	32.2
5	37	Total-pentafurans	339.8597	29.82	395115.860	0.901		13.52		1.50	1.55	NO	1492.3
6	37	Total-pentafurans	339.8597	29.75	155258.836	0.901		5.31		1.49	1.55	NO	714.8
7	37	Total-pentafurans	339.8597	29.63	45930.466	0.901		1.57		1.62	1.55	NO	153.1
8	37	Total-pentafurans	339.8597	29.53	29139.284	0.901		1.00		1.43	1.55	NO	106.7
9	37	Total-pentafurans	339.8597	33.26	8938.492	0.901		0.31		1.69	1.55	NO	31.8
10	37	Total-pentafurans	339.8597	33.18	1529.111	0.901		0.05		1.82	1.55	YES	7.7
11	3	23478-PeCDF	339.8597	32.24	66323.334	0.913		2.33	2.33	1.50	1.55	NO	245.4
12	37	Total-pentafurans	339.8597	32.09	100938.641	0.901		3.45		1.58	1.55	NO	401.5
13	37	Total-pentafurans	339.8597	31.96	24915.935	0.901		0.85		1.43	1.55	NO	86.0
14	37	Total-pentafurans	339.8597	31.73	4559.819	0.901		0.16		1.67	1.55	NO	16.5
15	37	Total-pentafurans	339.8597	31.37	5808.815	0.901		0.20		1.55	1.55	NO	23.1
16	37	Total-pentafurans	339.8597	31.20	15389.002	0.901		0.53		1.46	1.55	NO	62.4
17	37	Total-pentafurans	339.8597	31.10	80534.953	0.901		2.76		1.53	1.55	NO	313.2
18	2	12378-PeCDF	339.8597	30.89	77446.531	0.890		2.59	2.59	1.54	1.55	NO	295.1
19	37	Total-pentafurans	339.8597	30.53	123478.215	0.901		4.23		1.93	1.55	YES	422.5

HF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7	123789-HxCDF	373.8208	38.05	52922.500	1.001		2.40	2.40	1.25	1.24	NO	101.3
2	5	234678-HxCDF	373.8208	36.95	250473.672	1.066		9.13	9.13	1.22	1.24	NO	392.9
3	38	Total-hexafurans	373.8208	36.61	5489.164	1.049		0.21		1.66	1.24	YES	14.4
4	38	Total-hexafurans	373.8208	36.40	10897.634	1.049		0.41		1.47	1.24	YES	24.9
5	38	Total-hexafurans	373.8208	36.26	4741.741	1.049		0.18		2.51	1.24	YES	14.1
6	6	123678-HxCDF	373.8208	36.04	252070.906	1.043		8.77	8.78	1.22	1.24	NO	543.7
7	4	123478-HxCDF	373.8208	35.90	211299.563	1.087		7.80	7.80	1.24	1.24	NO	484.3
8	38	Total-hexafurans	373.8208	35.74	24505.390	1.049		0.93		1.27	1.24	NO	54.9
9	38	Total-hexafurans	373.8208	35.24	1695311.938	1.049		64.48		1.23	1.24	NO	3870.1
10	38	Total-hexafurans	373.8208	34.92	54392.318	1.049		2.07		1.20	1.24	NO	118.8
11	38	Total-hexafurans	373.8208	34.65	4609.597	1.049		0.18		1.13	1.24	NO	11.3
12	38	Total-hexafurans	373.8208	34.39	2079358.063	1.049		79.09		1.23	1.24	NO	4738.3
13	38	Total-hexafurans	373.8208	34.17	699142.031	1.049		26.59		1.25	1.24	NO	1559.1

HPF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9	1234789-HpCDF	407.7818	42.98	170573.727	1.233		8.96	8.96	1.02	1.05	NO	221.6
2	39	Total-heptafurans	407.7818	42.05	18453.701	1.234		0.83		1.16	1.05	NO	24.8
3	39	Total-heptafurans	407.7818	41.01	4288062.500	1.234		192.75		1.00	1.05	NO	6455.0
4	39	Total-heptafurans	407.7818	40.69	63273.113	1.234		2.84		1.04	1.05	NO	74.6
5	8	1234678-HpCDF	407.7818	40.19	3883794.875	1.234		152.58	152.58	1.02	1.05	NO	6171.1

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Furans,TF,PP,PF,HF,HPF,OF

	#	Name	Trace	RT	Abs Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35	Total-tetrafurans	303.9016	25.66	205181.172	0.871		5.80		0.76	0.77	NO	902.7
2	35	Total-tetrafurans	303.9016	25.51	63811.709	0.871		1.80		0.78	0.77	NO	285.5
3	35	Total-tetrafurans	303.9016	25.42	107674.918	0.871		3.04		0.73	0.77	NO	353.1
4	35	Total-tetrafurans	303.9016	25.26	10827.959	0.871		0.31		0.75	0.77	NO	49.0
5	35	Total-tetrafurans	303.9016	25.00	74631.968	0.871		2.11		0.77	0.77	NO	340.6
6	35	Total-tetrafurans	303.9016	24.87	29657.215	0.871		0.84		0.73	0.77	NO	137.6
7	35	Total-tetrafurans	303.9016	24.75	233661.445	0.871		6.60		0.73	0.77	NO	1070.3
8	35	Total-tetrafurans	303.9016	24.60	59624.127	0.871		1.69		0.75	0.77	NO	277.0
9	35	Total-tetrafurans	303.9016	24.51	162374.844	0.871		4.59		0.78	0.77	NO	720.1
10	35	Total-tetrafurans	303.9016	24.41	77719.355	0.871		2.20		0.81	0.77	NO	364.6
11	35	Total-tetrafurans	303.9016	24.29	235455.375	0.871		6.65		0.73	0.77	NO	820.6
12	35	Total-tetrafurans	303.9016	24.09	446706.047	0.871		12.63		0.75	0.77	NO	2029.9
13	35	Total-tetrafurans	303.9016	23.51	73514.031	0.871		2.08		0.74	0.77	NO	328.1
14	35	Total-tetrafurans	303.9016	23.25	162561.055	0.871		4.59		0.74	0.77	NO	772.8
15	35	Total-tetrafurans	303.9016	28.26	11160.009	0.871		0.32		0.86	0.77	NO	60.0
16	35	Total-tetrafurans	303.9016	28.17	33606.797	0.871		0.95		0.98	0.77	YES	134.7
17	35	Total-tetrafurans	303.9016	27.27	4956.698	0.871		0.14		0.74	0.77	NO	20.2
18	35	Total-tetrafurans	303.9016	26.99	97715.312	0.871		2.76		0.74	0.77	NO	375.9
19	35	Total-tetrafurans	303.9016	26.89	32160.916	0.871		0.91		0.77	0.77	NO	147.7
20	1	2378-TCDF	303.9016	26.75	158210.328	0.871		4.47	4.47	0.75	0.77	NO	711.3
21	35	Total-tetrafurans	303.9016	26.57	30077.841	0.871		0.85		1.03	0.77	YES	164.7
22	35	Total-tetrafurans	303.9016	26.53	34639.149	0.871		0.98		0.62	0.77	YES	165.8
23	35	Total-tetrafurans	303.9016	26.39	15967.657	0.871		0.45		0.64	0.77	YES	68.0
24	35	Total-tetrafurans	303.9016	26.26	27813.454	0.871		0.79		0.79	0.77	NO	117.3
25	35	Total-tetrafurans	303.9016	26.08	42198.025	0.871		1.19		0.71	0.77	NO	183.0
26	35	Total-tetrafurans	303.9016	25.85	179283.891	0.871		5.07		0.74	0.77	NO	778.5
27	37	Total-pentafurans	339.8597	30.43	49430.483	0.901		1.69		1.48	1.55	NO	197.7
28	37	Total-pentafurans	339.8597	30.25	55727.230	0.901		1.91		1.43	1.55	NO	201.3
29	37	Total-pentafurans	339.8597	30.11	5286.657	0.901		0.18		1.08	1.55	YES	19.7
30	37	Total-pentafurans	339.8597	29.94	8794.198	0.901		0.30		1.76	1.55	NO	32.2
31	37	Total-pentafurans	339.8597	29.82	395115.860	0.901		13.52		1.50	1.55	NO	1492.3
32	37	Total-pentafurans	339.8597	29.75	155258.836	0.901		5.31		1.49	1.55	NO	714.8
33	37	Total-pentafurans	339.8597	29.63	45930.466	0.901		1.57		1.62	1.55	NO	153.1
34	37	Total-pentafurans	339.8597	29.53	29139.284	0.901		1.00		1.43	1.55	NO	106.7
35	37	Total-pentafurans	339.8597	33.26	8938.492	0.901		0.31		1.69	1.55	NO	31.8
36	37	Total-pentafurans	339.8597	33.18	1529.111	0.901		0.05		1.82	1.55	YES	7.7
37	3	23478-PeCDF	339.8597	32.24	66323.334	0.913		2.33	2.33	1.50	1.55	NO	245.4
38	37	Total-pentafurans	339.8597	32.09	100938.641	0.901		3.45		1.58	1.55	NO	401.5
39	37	Total-pentafurans	339.8597	31.96	24915.935	0.901		0.85		1.43	1.55	NO	86.0
40	37	Total-pentafurans	339.8597	31.73	4559.819	0.901		0.16		1.67	1.55	NO	16.5
41	37	Total-pentafurans	339.8597	31.37	5808.815	0.901		0.20		1.55	1.55	NO	23.1
42	37	Total-pentafurans	339.8597	31.20	15389.002	0.901		0.53		1.46	1.55	NO	62.4
43	37	Total-pentafurans	339.8597	31.10	80534.953	0.901		2.76		1.53	1.55	NO	313.2
44	2	12378-PeCDF	339.8597	30.89	77446.531	0.890		2.59	2.59	1.54	1.55	NO	295.1
45	37	Total-pentafurans	339.8597	30.53	123478.215	0.901		4.23		1.93	1.55	YES	422.5
46	7	123789-HxCDF	373.8208	38.05	52922.500	1.001		2.40	2.40	1.25	1.24	NO	101.3
47	5	234678-HxCDF	373.8208	36.95	250473.672	1.066		9.13	9.13	1.22	1.24	NO	392.9
48	38	Total-hexafurans	373.8208	36.61	5489.164	1.049		0.21		1.66	1.24	YES	14.4
49	38	Total-hexafurans	373.8208	36.40	10897.634	1.049		0.41		1.47	1.24	YES	24.9

RF71:00718

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Furans,TF,PP,PF,HF,HPF,OF

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	38	Total-hexafurans	373.8208	36.26	4741.741	1.049		0.18		2.51	1.24	YES	14.1
51	6	123678-HxCDF	373.8208	36.04	252070.906	1.043		8.77	8.78	1.22	1.24	NO	543.7
52	4	123478-HxCDF	373.8208	35.90	211299.563	1.087		7.80	7.80	1.24	1.24	NO	484.3
53	38	Total-hexafurans	373.8208	35.74	24505.390	1.049		0.93		1.27	1.24	NO	54.9
54	38	Total-hexafurans	373.8208	35.24	1695311.938	1.049		64.48		1.23	1.24	NO	3870.1
55	38	Total-hexafurans	373.8208	34.92	54392.318	1.049		2.07		1.20	1.24	NO	118.8
56	38	Total-hexafurans	373.8208	34.65	4609.597	1.049		0.18		1.13	1.24	NO	11.3
57	38	Total-hexafurans	373.8208	34.39	2079358.063	1.049		79.09		1.23	1.24	NO	4738.3
58	38	Total-hexafurans	373.8208	34.17	699142.031	1.049		26.59		1.25	1.24	NO	1559.1
59	9	1234789-HpCDF	407.7818	42.98	170573.727	1.233		8.96	8.96	1.02	1.05	NO	221.6
60	39	Total-heptafurans	407.7818	42.05	18453.701	1.234		0.83		1.16	1.05	NO	24.8
61	39	Total-heptafurans	407.7818	41.01	4288062.500	1.234		192.75		1.00	1.05	NO	6455.0
62	39	Total-heptafurans	407.7818	40.69	63273.113	1.234		2.84		1.04	1.05	NO	74.6
63	8	1234678-HpCDF	407.7818	40.19	3883794.875	1.234		152.58	152.58	1.02	1.05	NO	6171.1
64	10	OCDF	441.7428	48.52	4989368.750	1.128		214.04	214.04	0.87	0.89	NO	9364.6
65	36	Total-penta1	339.8597	28.17	2162816.563	1.141		58.50		1.55	1.55	NO	18495.3

TD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41	Total-tetradioxins	319.8965	27.99	6697.167	1.041		0.24		0.82	0.77	NO	41.7
2	41	Total-tetradioxins	319.8965	27.53	20818.520	1.041		0.75		0.82	0.77	NO	133.9
3	11	2378-TCDD	319.8965	27.39	28493.907	1.041		1.03	1.03	0.79	0.77	NO	191.9
4	41	Total-tetradioxins	319.8965	27.02	90799.805	1.041		3.28		0.78	0.77	NO	459.5
5	41	Total-tetradioxins	319.8965	26.72	6632.092	1.041		0.24		0.85	0.77	NO	40.5
6	41	Total-tetradioxins	319.8965	26.57	118850.297	1.041		4.30		0.76	0.77	NO	755.9
7	41	Total-tetradioxins	319.8965	26.36	56914.090	1.041		2.06		0.78	0.77	NO	374.3
8	41	Total-tetradioxins	319.8965	26.26	6586.510	1.041		0.24		0.64	0.77	YES	39.4
9	41	Total-tetradioxins	319.8965	26.00	140042.469	1.041		5.06		0.78	0.77	NO	970.6
10	41	Total-tetradioxins	319.8965	25.72	72498.229	1.041		2.62		0.74	0.77	NO	438.1
11	41	Total-tetradioxins	319.8965	25.51	45119.772	1.041		1.63		0.76	0.77	NO	303.2
12	41	Total-tetradioxins	319.8965	25.00	30588.544	1.041		1.11		0.79	0.77	NO	224.7
13	41	Total-tetradioxins	319.8965	24.79	772295.125	1.041		27.91		0.78	0.77	NO	5302.0
14	41	Total-tetradioxins	319.8965	24.52	873717.875	1.041		31.58		0.76	0.77	NO	5925.4

PD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42	Total-pentadioxins	355.8546	30.28	44674.869	0.969		2.16		1.56	1.55	NO	152.4
2	42	Total-pentadioxins	355.8546	29.79	842320.000	0.969		40.65		1.54	1.55	NO	1702.9
3	42	Total-pentadioxins	355.8546	33.60	34983.609	0.969		1.69		0.36	1.55	YES	50.9
4	42	Total-pentadioxins	355.8546	32.89	14351.564	0.969		0.69		1.41	1.55	NO	40.4
5	12	12378-PeCDD	355.8546	32.48	61642.256	0.969		2.97	2.98	1.56	1.55	NO	173.0
6	42	Total-pentadioxins	355.8546	31.81	94426.199	0.969		4.56		1.56	1.55	NO	282.7
7	42	Total-pentadioxins	355.8546	31.42	51866.373	0.969		2.50		1.54	1.55	NO	119.9
8	42	Total-pentadioxins	355.8546	31.24	274191.633	0.969		13.23		1.57	1.55	NO	879.7
9	42	Total-pentadioxins	355.8546	31.10	68797.978	0.969		3.32		1.51	1.55	NO	229.3
10	42	Total-pentadioxins	355.8546	30.89	315700.547	0.969		15.23		1.48	1.55	NO	1026.5

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HD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43	Total-hexadioxins	389.8157	38.32	8284.753	0.923		0.40		1.79	1.24	YES	19.4
2	15	123789-HxCDD	389.8157	37.64	406252.172	0.909		19.87	19.87	1.24	1.24	NO	791.9
3	43	Total-hexadioxins	389.8157	37.41	43638.393	0.923		2.10		1.14	1.24	NO	74.2
4	14	123678-HxCDD	389.8157	37.24	726503.657	0.893		35.04	35.04	1.22	1.24	NO	1361.0
5	13	123478-HxCDD	389.8157	37.11	135798.188	0.967		6.45	6.45	1.34	1.24	NO	264.1
6	43	Total-hexadioxins	389.8157	36.15	1901986.500	0.923		91.59		1.23	1.24	NO	2386.5
7	43	Total-hexadioxins	389.8157	35.77	922201.313	0.923		44.41		1.26	1.24	NO	1726.5
8	43	Total-hexadioxins	389.8157	34.96	1822146.625	0.923		87.75		1.25	1.24	NO	3477.1

HPD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16	1234678-HpCDD	423.7766	42.06	26456747....	0.982		1346.67	1346...	1.04	1.05	NO	13065.0
2	44	Total-heptadioxins	423.7766	40.74	17382863....	0.982		884.80		1.03	1.05	NO	9094.2

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Dioxins,TD,PD,HD,HPD,OD

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41	Total-tetradioxins	319.8965	27.99	6697.167	1.041		0.24		0.82	0.77	NO	41.7
2	41	Total-tetradioxins	319.8965	27.53	20818.520	1.041		0.75		0.82	0.77	NO	133.9
3	11	2378-TCDD	319.8965	27.39	28493.907	1.041		1.03	1.03	0.79	0.77	NO	191.9
4	41	Total-tetradioxins	319.8965	27.02	90799.805	1.041		3.28		0.78	0.77	NO	459.5
5	41	Total-tetradioxins	319.8965	26.72	6632.092	1.041		0.24		0.85	0.77	NO	40.5
6	41	Total-tetradioxins	319.8965	26.57	118850.297	1.041		4.30		0.76	0.77	NO	755.9
7	41	Total-tetradioxins	319.8965	26.36	56914.090	1.041		2.06		0.78	0.77	NO	374.3
8	41	Total-tetradioxins	319.8965	26.26	6586.510	1.041		0.24		0.64	0.77	YES	39.4
9	41	Total-tetradioxins	319.8965	26.00	140042.469	1.041		5.06		0.78	0.77	NO	970.6
10	41	Total-tetradioxins	319.8965	25.72	72498.229	1.041		2.62		0.74	0.77	NO	438.1
11	41	Total-tetradioxins	319.8965	25.51	45119.772	1.041		1.63		0.76	0.77	NO	303.2
12	41	Total-tetradioxins	319.8965	25.00	30588.544	1.041		1.11		0.79	0.77	NO	224.7
13	41	Total-tetradioxins	319.8965	24.79	772295.125	1.041		27.91		0.78	0.77	NO	5302.0
14	41	Total-tetradioxins	319.8965	24.52	873717.875	1.041		31.58		0.76	0.77	NO	5925.4
15	42	Total-pentadioxins	355.8546	30.28	44674.869	0.969		2.16		1.56	1.55	NO	152.4
16	42	Total-pentadioxins	355.8546	29.79	842320.000	0.969		40.65		1.54	1.55	NO	1702.9
17	42	Total-pentadioxins	355.8546	33.60	34983.609	0.969		1.69		0.36	1.55	YES	50.9
18	42	Total-pentadioxins	355.8546	32.89	14351.564	0.969		0.69		1.41	1.55	NO	40.4
19	12	12378-PeCDD	355.8546	32.48	61642.256	0.969		2.97	2.98	1.56	1.55	NO	173.0
20	42	Total-pentadioxins	355.8546	31.81	94426.199	0.969		4.56		1.56	1.55	NO	282.7
21	42	Total-pentadioxins	355.8546	31.42	51866.373	0.969		2.50		1.54	1.55	NO	119.9
22	42	Total-pentadioxins	355.8546	31.24	274191.633	0.969		13.23		1.57	1.55	NO	879.7
23	42	Total-pentadioxins	355.8546	31.10	68797.978	0.969		3.32		1.51	1.55	NO	229.3
24	42	Total-pentadioxins	355.8546	30.89	315700.547	0.969		15.23		1.48	1.55	NO	1026.5
25	43	Total-hexadioxins	389.8157	38.32	8284.753	0.923		0.40		1.79	1.24	YES	19.4
26	15	123789-HxCDD	389.8157	37.64	406252.172	0.909		19.87	19.87	1.24	1.24	NO	791.9
27	43	Total-hexadioxins	389.8157	37.41	43638.393	0.923		2.10		1.14	1.24	NO	74.2
28	14	123678-HxCDD	389.8157	37.24	726503.657	0.893		35.04	35.04	1.22	1.24	NO	1361.0
29	13	123478-HxCDD	389.8157	37.11	135798.188	0.967		6.45	6.45	1.34	1.24	NO	264.1
30	43	Total-hexadioxins	389.8157	36.15	1901986.500	0.923		91.59		1.23	1.24	NO	2386.5
31	43	Total-hexadioxins	389.8157	35.77	922201.313	0.923		44.41		1.26	1.24	NO	1726.5
32	43	Total-hexadioxins	389.8157	34.96	1822146.625	0.923		87.75		1.25	1.24	NO	3477.1
33	17	OCDD	457.7377	48.23	207881040...	0.985		10211....	1021...	0.91	0.89	NO	17153...
34	16	1234678-HpCDD	423.7766	42.06	26456747....	0.982		1346.67	1346...	1.04	1.05	NO	13065.0
35	44	Total-heptadioxins	423.7766	40.74	17382863....	0.982		884.80		1.03	1.05	NO	9094.2

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TotalTEQ,Furans,Dioxins

	#	Name	Trace	RT	Abs Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35	Total-tetrafurans	303.9016	25.66	205181.172	0.871		5.80		0.76	0.77	NO	902.7
2	35	Total-tetrafurans	303.9016	25.51	63811.709	0.871		1.80		0.78	0.77	NO	285.5
3	35	Total-tetrafurans	303.9016	25.42	107674.918	0.871		3.04		0.73	0.77	NO	353.1
4	35	Total-tetrafurans	303.9016	25.26	10827.959	0.871		0.31		0.75	0.77	NO	49.0
5	35	Total-tetrafurans	303.9016	25.00	74631.968	0.871		2.11		0.77	0.77	NO	340.6
6	35	Total-tetrafurans	303.9016	24.87	29657.215	0.871		0.84		0.73	0.77	NO	137.6
7	35	Total-tetrafurans	303.9016	24.75	233661.445	0.871		6.60		0.73	0.77	NO	1070.3
8	35	Total-tetrafurans	303.9016	24.60	59624.127	0.871		1.69		0.75	0.77	NO	277.0
9	35	Total-tetrafurans	303.9016	24.51	162374.844	0.871		4.59		0.78	0.77	NO	720.1
10	35	Total-tetrafurans	303.9016	24.41	77719.355	0.871		2.20		0.81	0.77	NO	364.6
11	35	Total-tetrafurans	303.9016	24.29	235455.375	0.871		6.65		0.73	0.77	NO	820.6
12	35	Total-tetrafurans	303.9016	24.09	446706.047	0.871		12.63		0.75	0.77	NO	2029.9
13	35	Total-tetrafurans	303.9016	23.51	73514.031	0.871		2.08		0.74	0.77	NO	328.1
14	35	Total-tetrafurans	303.9016	23.25	162561.055	0.871		4.59		0.74	0.77	NO	772.8
15	35	Total-tetrafurans	303.9016	28.26	11160.009	0.871		0.32		0.86	0.77	NO	60.0
16	35	Total-tetrafurans	303.9016	28.17	33606.797	0.871		0.95		0.98	0.77	YES	134.7
17	35	Total-tetrafurans	303.9016	27.27	4956.698	0.871		0.14		0.74	0.77	NO	20.2
18	35	Total-tetrafurans	303.9016	26.99	97715.312	0.871		2.76		0.74	0.77	NO	375.9
19	35	Total-tetrafurans	303.9016	26.89	32160.916	0.871		0.91		0.77	0.77	NO	147.7
20	1	2378-TCDF	303.9016	26.75	158210.328	0.871		4.47	4.47	0.75	0.77	NO	711.3
21	35	Total-tetrafurans	303.9016	26.57	30077.841	0.871		0.85		1.03	0.77	YES	164.7
22	35	Total-tetrafurans	303.9016	26.53	34639.149	0.871		0.98		0.62	0.77	YES	165.8
23	35	Total-tetrafurans	303.9016	26.39	15967.657	0.871		0.45		0.64	0.77	YES	68.0
24	35	Total-tetrafurans	303.9016	26.26	27813.454	0.871		0.79		0.79	0.77	NO	117.3
25	35	Total-tetrafurans	303.9016	26.08	42198.025	0.871		1.19		0.71	0.77	NO	183.0
26	35	Total-tetrafurans	303.9016	25.85	179283.891	0.871		5.07		0.74	0.77	NO	778.5
27	37	Total-pentafurans	339.8597	30.43	49430.483	0.901		1.69		1.48	1.55	NO	197.7
28	37	Total-pentafurans	339.8597	30.25	55727.230	0.901		1.91		1.43	1.55	NO	201.3
29	37	Total-pentafurans	339.8597	30.11	5286.657	0.901		0.18		1.08	1.55	YES	19.7
30	37	Total-pentafurans	339.8597	29.94	8794.198	0.901		0.30		1.76	1.55	NO	32.2
31	37	Total-pentafurans	339.8597	29.82	395115.860	0.901		13.52		1.50	1.55	NO	1492.3
32	37	Total-pentafurans	339.8597	29.75	155258.836	0.901		5.31		1.49	1.55	NO	714.8
33	37	Total-pentafurans	339.8597	29.63	45930.466	0.901		1.57		1.62	1.55	NO	153.1
34	37	Total-pentafurans	339.8597	29.53	29139.284	0.901		1.00		1.43	1.55	NO	106.7
35	37	Total-pentafurans	339.8597	33.26	8938.492	0.901		0.31		1.69	1.55	NO	31.8
36	37	Total-pentafurans	339.8597	33.18	1529.111	0.901		0.05		1.82	1.55	YES	7.7
37	3	23478-PeCDF	339.8597	32.24	66323.334	0.913		2.33	2.33	1.50	1.55	NO	245.4
38	37	Total-pentafurans	339.8597	32.09	100938.641	0.901		3.45		1.58	1.55	NO	401.5
39	37	Total-pentafurans	339.8597	31.96	24915.935	0.901		0.85		1.43	1.55	NO	86.0
40	37	Total-pentafurans	339.8597	31.73	4559.819	0.901		0.16		1.67	1.55	NO	16.5
41	37	Total-pentafurans	339.8597	31.37	5808.815	0.901		0.20		1.55	1.55	NO	23.1
42	37	Total-pentafurans	339.8597	31.20	15389.002	0.901		0.53		1.46	1.55	NO	62.4
43	37	Total-pentafurans	339.8597	31.10	80534.953	0.901		2.76		1.53	1.55	NO	313.2
44	2	12378-PeCDF	339.8597	30.89	77446.531	0.890		2.59	2.59	1.54	1.55	NO	295.1
45	37	Total-pentafurans	339.8597	30.53	123478.215	0.901		4.23		1.93	1.55	YES	422.5
46	7	123789-HxCDF	373.8208	38.05	52922.500	1.001		2.40	2.40	1.25	1.24	NO	101.3
47	5	234678-HxCDF	373.8208	36.95	250473.672	1.066		9.13	9.13	1.22	1.24	NO	392.9
48	38	Total-hexafurans	373.8208	36.61	5489.164	1.049		0.21		1.66	1.24	YES	14.4
49	38	Total-hexafurans	373.8208	36.40	10897.634	1.049		0.41		1.47	1.24	YES	24.9

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Name: 10080507, Date: 05-Aug-2010, Time: 16:46:26, ID: RF71A, Description: , User: VTS

TotalTEQ,Furans,Dioxins

	#	Name	Trace	RT	Abs Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
50	38	Total-hexafurans	373.8208	36.26	4741.741	1.049		0.18		2.51	1.24	YES	14.1
51	6	123678-HxCDF	373.8208	36.04	252070.906	1.043		8.77	8.78	1.22	1.24	NO	543.7
52	4	123478-HxCDF	373.8208	35.90	211299.563	1.087		7.80	7.80	1.24	1.24	NO	484.3
53	38	Total-hexafurans	373.8208	35.74	24505.390	1.049		0.93		1.27	1.24	NO	54.9
54	38	Total-hexafurans	373.8208	35.24	1695311.938	1.049		64.48		1.23	1.24	NO	3870.1
55	38	Total-hexafurans	373.8208	34.92	54392.318	1.049		2.07		1.20	1.24	NO	118.8
56	38	Total-hexafurans	373.8208	34.65	4609.597	1.049		0.18		1.13	1.24	NO	11.3
57	38	Total-hexafurans	373.8208	34.39	2079358.063	1.049		79.09		1.23	1.24	NO	4738.3
58	38	Total-hexafurans	373.8208	34.17	699142.031	1.049		26.59		1.25	1.24	NO	1559.1
59	9	1234789-HpCDF	407.7818	42.98	170573.727	1.233		8.96	8.96	1.02	1.05	NO	221.6
60	39	Total-heptafurans	407.7818	42.05	18453.701	1.234		0.83		1.16	1.05	NO	24.8
61	39	Total-heptafurans	407.7818	41.01	4288062.500	1.234		192.75		1.00	1.05	NO	6455.0
62	39	Total-heptafurans	407.7818	40.69	63273.113	1.234		2.84		1.04	1.05	NO	74.6
63	8	1234678-HpCDF	407.7818	40.19	3883794.875	1.234		152.58	152.58	1.02	1.05	NO	6171.1
64	10	OCDF	441.7428	48.52	4989368.750	1.128		214.04	214.04	0.87	0.89	NO	9364.6
65	36	Total-penta1	339.8597	28.17	2162816.563	1.141		58.50		1.55	1.55	NO	18495.3
66	41	Total-tetradioxins	319.8965	27.99	6697.167	1.041		0.24		0.82	0.77	NO	41.7
67	41	Total-tetradioxins	319.8965	27.53	20818.520	1.041		0.75		0.82	0.77	NO	133.9
68	11	2378-TCDD	319.8965	27.39	28493.907	1.041		1.03	1.03	0.79	0.77	NO	191.9
69	41	Total-tetradioxins	319.8965	27.02	90799.805	1.041		3.28		0.78	0.77	NO	459.5
70	41	Total-tetradioxins	319.8965	26.72	6632.092	1.041		0.24		0.85	0.77	NO	40.5
71	41	Total-tetradioxins	319.8965	26.57	118850.297	1.041		4.30		0.76	0.77	NO	755.9
72	41	Total-tetradioxins	319.8965	26.36	56914.090	1.041		2.06		0.78	0.77	NO	374.3
73	41	Total-tetradioxins	319.8965	26.26	6586.510	1.041		0.24		0.64	0.77	YES	39.4
74	41	Total-tetradioxins	319.8965	26.00	140042.469	1.041		5.06		0.78	0.77	NO	970.6
75	41	Total-tetradioxins	319.8965	25.72	72498.229	1.041		2.62		0.74	0.77	NO	438.1
76	41	Total-tetradioxins	319.8965	25.51	45119.772	1.041		1.63		0.76	0.77	NO	303.2
77	41	Total-tetradioxins	319.8965	25.00	30588.544	1.041		1.11		0.79	0.77	NO	224.7
78	41	Total-tetradioxins	319.8965	24.79	772295.125	1.041		27.91		0.78	0.77	NO	5302.0
79	41	Total-tetradioxins	319.8965	24.52	873717.875	1.041		31.58		0.76	0.77	NO	5925.4
80	42	Total-pentadioxins	355.8546	30.28	44674.869	0.969		2.16		1.56	1.55	NO	152.4
81	42	Total-pentadioxins	355.8546	29.79	842320.000	0.969		40.65		1.54	1.55	NO	1702.9
82	42	Total-pentadioxins	355.8546	33.60	34983.609	0.969		1.69		0.36	1.55	YES	50.9
83	42	Total-pentadioxins	355.8546	32.89	14351.564	0.969		0.69		1.41	1.55	NO	40.4
84	12	12378-PeCDD	355.8546	32.48	61642.256	0.969		2.97	2.98	1.56	1.55	NO	173.0
85	42	Total-pentadioxins	355.8546	31.81	94426.199	0.969		4.56		1.56	1.55	NO	282.7
86	42	Total-pentadioxins	355.8546	31.42	51866.373	0.969		2.50		1.54	1.55	NO	119.9
87	42	Total-pentadioxins	355.8546	31.24	274191.633	0.969		13.23		1.57	1.55	NO	879.7
88	42	Total-pentadioxins	355.8546	31.10	68797.978	0.969		3.32		1.51	1.55	NO	229.3
89	42	Total-pentadioxins	355.8546	30.89	315700.547	0.969		15.23		1.48	1.55	NO	1026.5
90	43	Total-hexadioxins	389.8157	38.32	8284.753	0.923		0.40		1.79	1.24	YES	19.4
91	15	123789-HxCDD	389.8157	37.64	406252.172	0.909		19.87	19.87	1.24	1.24	NO	791.9
92	43	Total-hexadioxins	389.8157	37.41	43638.393	0.923		2.10		1.14	1.24	NO	74.2
93	14	123678-HxCDD	389.8157	37.24	726503.657	0.893		35.04	35.04	1.22	1.24	NO	1361.0
94	13	123478-HxCDD	389.8157	37.11	135798.188	0.967		6.45	6.45	1.34	1.24	NO	264.1
95	43	Total-hexadioxins	389.8157	36.15	1901986.500	0.923		91.59		1.23	1.24	NO	2386.5
96	43	Total-hexadioxins	389.8157	35.77	922201.313	0.923		44.41		1.26	1.24	NO	1726.5
97	43	Total-hexadioxins	389.8157	34.96	1822146.625	0.923		87.75		1.25	1.24	NO	3477.1
98	17	OCDD	457.7377	48.23	207881040...	0.985		10211....	1021...	0.91	0.89	NO	17153...

RF71 : 80723

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TotalTEQ,Furans,Dioxins

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
99	16	1234678-HpCDD	423.7766	42.06	26456747....	0.982		1346.67	1346...	1.04	1.05	NO	13065.0
100	44	Total-heptadioxins	423.7766	40.74	17382863....	0.982		884.80		1.03	1.05	NO	9094.2

PFK1

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48	FUNCTION1 PFK	330.9792	25.35	0.000								1.2
2	48	FUNCTION1 PFK	330.9792	25.23	0.000								1.2
3	48	FUNCTION1 PFK	330.9792	24.85	0.000								0.8
4	48	FUNCTION1 PFK	330.9792	24.23	0.000								0.9
5	48	FUNCTION1 PFK	330.9792	24.09	0.000								0.8
6	48	FUNCTION1 PFK	330.9792	24.03	0.000								0.4
7	48	FUNCTION1 PFK	330.9792	23.84	0.000								1.5
8	48	FUNCTION1 PFK	330.9792	23.69	0.000								0.7
9	48	FUNCTION1 PFK	330.9792	23.54	0.000								1.3
10	48	FUNCTION1 PFK	330.9792	23.21	0.000								1.1
11	48	FUNCTION1 PFK	330.9792	22.85	0.000								1.2
12	48	FUNCTION1 PFK	330.9792	22.63	0.000								1.2
13	48	FUNCTION1 PFK	330.9792	22.58	0.000								0.9
14	48	FUNCTION1 PFK	330.9792	22.45	0.000								2.2
15	48	FUNCTION1 PFK	330.9792	22.28	0.000								1.4
16	48	FUNCTION1 PFK	330.9792	22.13	0.000								1.7
17	48	FUNCTION1 PFK	330.9792	28.47	0.000								1.4
18	48	FUNCTION1 PFK	330.9792	28.04	0.000								0.9
19	48	FUNCTION1 PFK	330.9792	27.54	0.000								1.6
20	48	FUNCTION1 PFK	330.9792	27.20	0.000								0.7
21	48	FUNCTION1 PFK	330.9792	26.95	0.000								2.3
22	48	FUNCTION1 PFK	330.9792	26.66	0.000								0.7
23	48	FUNCTION1 PFK	330.9792	26.23	0.000								1.0
24	48	FUNCTION1 PFK	330.9792	26.06	0.000								0.7
25	48	FUNCTION1 PFK	330.9792	25.79	0.000								1.9
26	48	FUNCTION1 PFK	330.9792	25.39	0.000								1.0

PFK2

	#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49	FUNCTION2 PFK	366.9792	32.57	0.000			0.00					1.5
2	49	FUNCTION2 PFK	366.9792	31.69	0.000			0.00					1.4
3	49	FUNCTION2 PFK	366.9792	31.31	0.000			0.00					1.0
4	49	FUNCTION2 PFK	366.9792	30.06	0.000			0.00					1.2
5	49	FUNCTION2 PFK	366.9792	29.50	0.000			0.00					0.6
6	49	FUNCTION2 PFK	366.9792	33.76	0.000			0.00					0.5
7	49	FUNCTION2 PFK	366.9792	33.65	0.000			0.00					1.1
8	49	FUNCTION2 PFK	366.9792	33.29	0.000			0.00					1.0
9	49	FUNCTION2 PFK	366.9792	33.18	0.000			0.00					1.6
10	49	FUNCTION2 PFK	366.9792	32.97	0.000			0.00					1.5

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PFK3

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50	FUNCTION3 PFK	380.9760	35.99	0.000		0.00					0.8
2	50	FUNCTION3 PFK	380.9760	35.71	0.000		0.00					1.0
3	50	FUNCTION3 PFK	380.9760	35.67	0.000		0.00					1.0
4	50	FUNCTION3 PFK	380.9760	35.57	0.000		0.00					0.4
5	50	FUNCTION3 PFK	380.9760	35.42	0.000		0.00					1.3
6	50	FUNCTION3 PFK	380.9760	35.12	0.000		0.00					1.2
7	50	FUNCTION3 PFK	380.9760	34.98	0.000		0.00					2.1
8	50	FUNCTION3 PFK	380.9760	34.74	0.000		0.00					1.8
9	50	FUNCTION3 PFK	380.9760	34.56	0.000		0.00					2.0
10	50	FUNCTION3 PFK	380.9760	34.13	0.000		0.00					2.2
11	50	FUNCTION3 PFK	380.9760	38.80	0.000		0.00					0.9
12	50	FUNCTION3 PFK	380.9760	38.51	0.000		0.00					1.7
13	50	FUNCTION3 PFK	380.9760	38.31	0.000		0.00					0.8
14	50	FUNCTION3 PFK	380.9760	37.34	0.000		0.00					1.9
15	50	FUNCTION3 PFK	380.9760	37.19	0.000		0.00					1.6
16	50	FUNCTION3 PFK	380.9760	36.69	0.000		0.00					1.7
17	50	FUNCTION3 PFK	380.9760	36.62	0.000		0.00					2.0
18	50	FUNCTION3 PFK	380.9760	36.40	0.000		0.00					1.7
19	50	FUNCTION3 PFK	380.9760	36.17	0.000		0.00					2.3

PFK4

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51	FUNCTION4 PFK	430.9728	40.46	0.000							1.5
2	51	FUNCTION4 PFK	430.9728	39.98	0.000							1.6
3	51	FUNCTION4 PFK	430.9728	39.65	0.000							1.5
4	51	FUNCTION4 PFK	430.9728	39.51	0.000							1.7
5	51	FUNCTION4 PFK	430.9728	39.46	0.000							0.5
6	51	FUNCTION4 PFK	430.9728	39.14	0.000							1.3
7	51	FUNCTION4 PFK	430.9728	44.68	0.000							1.2
8	51	FUNCTION4 PFK	430.9728	44.56	0.000							1.3
9	51	FUNCTION4 PFK	430.9728	43.97	0.000							0.9
10	51	FUNCTION4 PFK	430.9728	43.85	0.000							1.0
11	51	FUNCTION4 PFK	430.9728	42.90	0.000							0.8
12	51	FUNCTION4 PFK	430.9728	42.84	0.000							2.0
13	51	FUNCTION4 PFK	430.9728	42.68	0.000							0.6
14	51	FUNCTION4 PFK	430.9728	42.65	0.000							0.7
15	51	FUNCTION4 PFK	430.9728	42.24	0.000							1.5
16	51	FUNCTION4 PFK	430.9728	42.02	0.000							0.8
17	51	FUNCTION4 PFK	430.9728	41.58	0.000							0.6
18	51	FUNCTION4 PFK	430.9728	41.50	0.000							1.3
19	51	FUNCTION4 PFK	430.9728	41.16	0.000							1.3
20	51	FUNCTION4 PFK	430.9728	40.99	0.000							0.9
21	51	FUNCTION4 PFK	430.9728	40.94	0.000							1.5
22	51	FUNCTION4 PFK	430.9728	40.62	0.000							0.6
23	51	FUNCTION4 PFK	430.9728	44.84	0.000							1.2

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PFK5

	#	Name	Trace	RT	Abs Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52	FUNCTION5 PFK	480.9696	46.09	0.000							0.8
2	52	FUNCTION5 PFK	480.9696	46.05	0.000							1.7
3	52	FUNCTION5 PFK	480.9696	46.01	0.000							1.6
4	52	FUNCTION5 PFK	480.9696	45.95	0.000							0.8
5	52	FUNCTION5 PFK	480.9696	45.86	0.000							1.2
6	52	FUNCTION5 PFK	480.9696	45.83	0.000							1.0
7	52	FUNCTION5 PFK	480.9696	45.46	0.000							2.1
8	52	FUNCTION5 PFK	480.9696	45.38	0.000							4.2
9	52	FUNCTION5 PFK	480.9696	45.33	0.000							5.1
10	52	FUNCTION5 PFK	480.9696	45.30	0.000							6.0
11	52	FUNCTION5 PFK	480.9696	45.22	0.000							7.7
12	52	FUNCTION5 PFK	480.9696	45.17	0.000							8.2
13	52	FUNCTION5 PFK	480.9696	45.14	0.000							9.0
14	52	FUNCTION5 PFK	480.9696	45.10	0.000							9.5
15	52	FUNCTION5 PFK	480.9696	47.32	0.000							1.6
16	52	FUNCTION5 PFK	480.9696	47.26	0.000							0.4
17	52	FUNCTION5 PFK	480.9696	47.17	0.000							0.5
18	52	FUNCTION5 PFK	480.9696	47.05	0.000							1.1
19	52	FUNCTION5 PFK	480.9696	47.00	0.000							1.1
20	52	FUNCTION5 PFK	480.9696	46.95	0.000							1.1
21	52	FUNCTION5 PFK	480.9696	46.89	0.000							1.5
22	52	FUNCTION5 PFK	480.9696	46.78	0.000							0.5
23	52	FUNCTION5 PFK	480.9696	46.67	0.000							0.7
24	52	FUNCTION5 PFK	480.9696	46.54	0.000							1.1
25	52	FUNCTION5 PFK	480.9696	46.43	0.000							1.0
26	52	FUNCTION5 PFK	480.9696	46.35	0.000							1.4
27	52	FUNCTION5 PFK	480.9696	46.32	0.000							1.2
28	52	FUNCTION5 PFK	480.9696	46.28	0.000							1.6
29	52	FUNCTION5 PFK	480.9696	46.23	0.000							1.1
30	52	FUNCTION5 PFK	480.9696	46.19	0.000							1.3
31	52	FUNCTION5 PFK	480.9696	48.76	0.000							1.1
32	52	FUNCTION5 PFK	480.9696	48.63	0.000							1.6
33	52	FUNCTION5 PFK	480.9696	48.58	0.000							1.1
34	52	FUNCTION5 PFK	480.9696	48.36	0.000							2.4
35	52	FUNCTION5 PFK	480.9696	48.32	0.000							2.1
36	52	FUNCTION5 PFK	480.9696	48.28	0.000							1.7
37	52	FUNCTION5 PFK	480.9696	48.23	0.000							0.4
38	52	FUNCTION5 PFK	480.9696	48.16	0.000							1.6
39	52	FUNCTION5 PFK	480.9696	48.13	0.000							2.6
40	52	FUNCTION5 PFK	480.9696	47.98	0.000							0.8
41	52	FUNCTION5 PFK	480.9696	47.83	0.000							1.5
42	52	FUNCTION5 PFK	480.9696	47.76	0.000							0.9
43	52	FUNCTION5 PFK	480.9696	47.59	0.000							0.6
44	52	FUNCTION5 PFK	480.9696	47.45	0.000							1.4
45	52	FUNCTION5 PFK	480.9696	47.39	0.000							0.9
46	52	FUNCTION5 PFK	480.9696	47.35	0.000							1.1
47	52	FUNCTION5 PFK	480.9696	48.93	0.000							0.8
48	52	FUNCTION5 PFK	480.9696	48.88	0.000							1.0
49	52	FUNCTION5 PFK	480.9696	48.81	0.000							1.3

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ETHERS1

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53	FUNCTION1 HXCD...	375.8364	26.84	0.000		0.00					32.3
2	53	FUNCTION1 HXCD...	375.8364	26.57	0.000		0.00					20.1

ETHERS2

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

ETHERS3

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55	FUNCTION2 HPCD...	409.7974	33.49	0.000		0.00					9.4
2	55	FUNCTION2 HPCD...	409.7974	32.32	0.000		0.00					9.0
3	55	FUNCTION2 HPCD...	409.7974	31.81	0.000		0.00					8.1
4	55	FUNCTION2 HPCD...	409.7974	30.86	0.000		0.00					47.3
5	55	FUNCTION2 HPCD...	409.7974	30.53	0.000		0.00					57.6
6	55	FUNCTION2 HPCD...	409.7974	30.24	0.000		0.00					7.3

ETHERS4

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56	FUNCTION3 OCDPE	445.7555	35.82	0.000		0.00					10.9
2	56	FUNCTION3 OCDPE	445.7555	38.22	0.000		0.00					6.4
3	56	FUNCTION3 OCDPE	445.7555	37.91	0.000		0.00					10.2
4	56	FUNCTION3 OCDPE	445.7555	37.68	0.000		0.00					8.9

ETHERS5

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57	FUNCTION4 NCDPE	479.7165	42.29	0.000		0.00					5.6
2	57	FUNCTION4 NCDPE	479.7165	42.05	0.000		0.00					38.4
3	57	FUNCTION4 NCDPE	479.7165	41.81	0.000		0.00					13.5
4	57	FUNCTION4 NCDPE	479.7165	41.65	0.000		0.00					10.3
5	57	FUNCTION4 NCDPE	479.7165	41.61	0.000		0.00					5.1
6	57	FUNCTION4 NCDPE	479.7165	39.77	0.000		0.00					811.9

ETHERS6

	#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	58	FUNCTION5 DCDPE	513.6775	48.24	0.000		0.00					33.3

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Method: C:\MassLynx\DIOXIN8290.PRO\MethDB\Dioxin15.mdb 04 Aug 2010 08:29:22
Calibration: C:\MassLynx\DIOXIN8290.PRO\CurveDB\100729ICAL.cdb 04 Aug 2010 09:17:39

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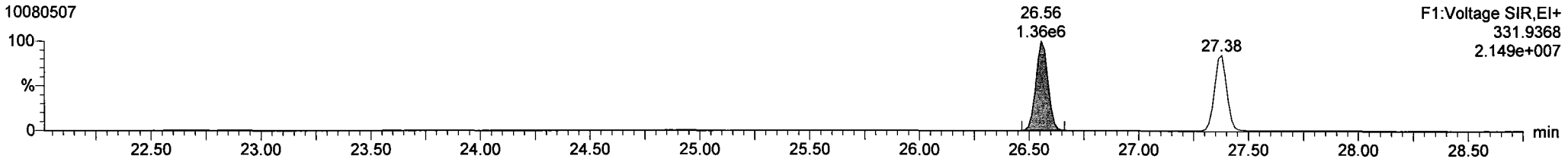
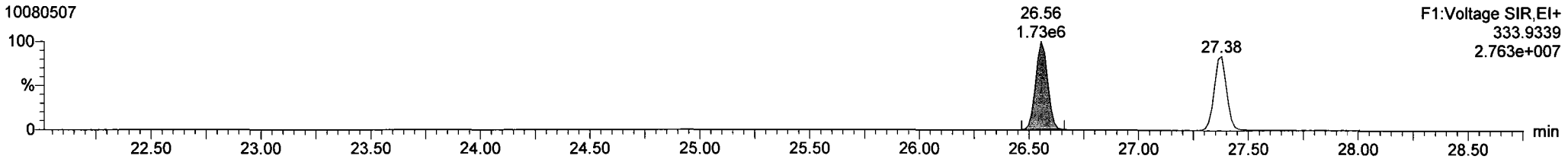
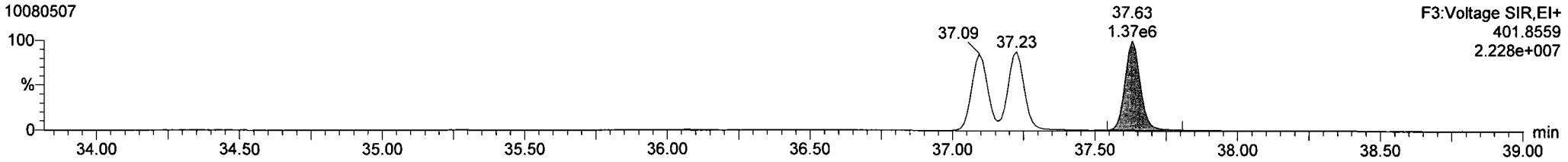
13C-1234-TCDD



13C-1234-TCDD



13C-123789-HxCDD



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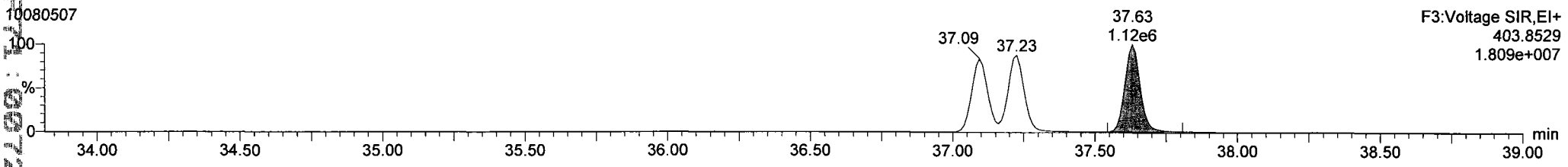

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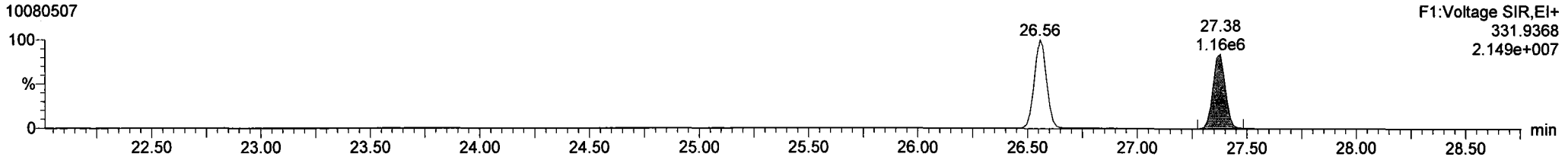
13C-2378-TCDD



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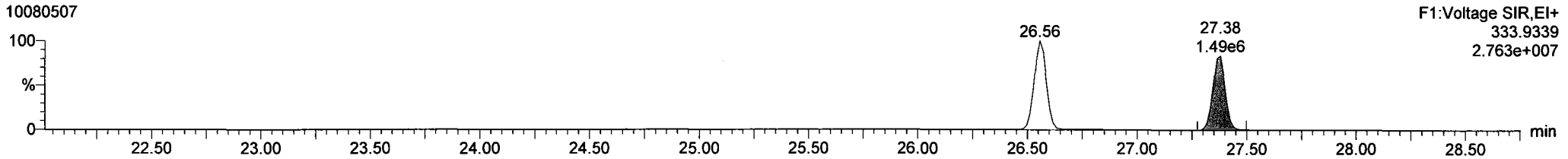
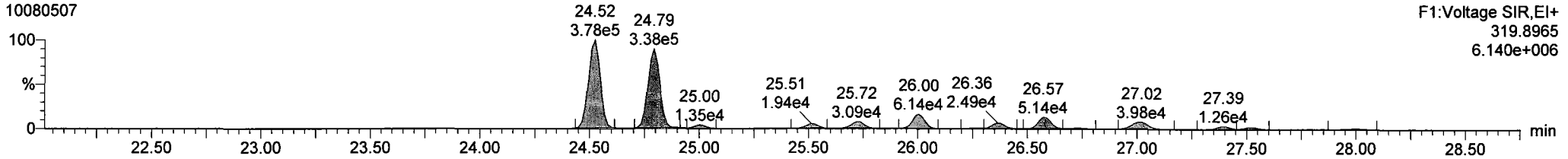
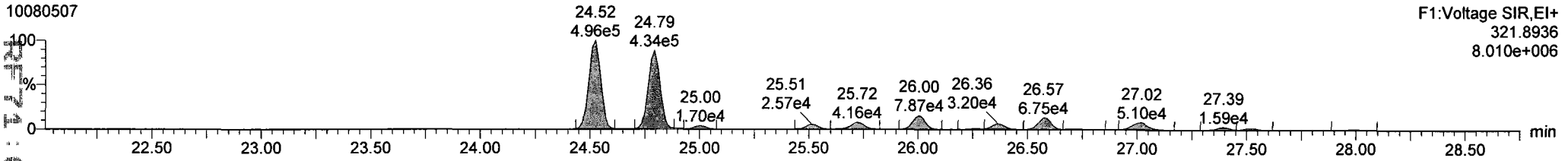


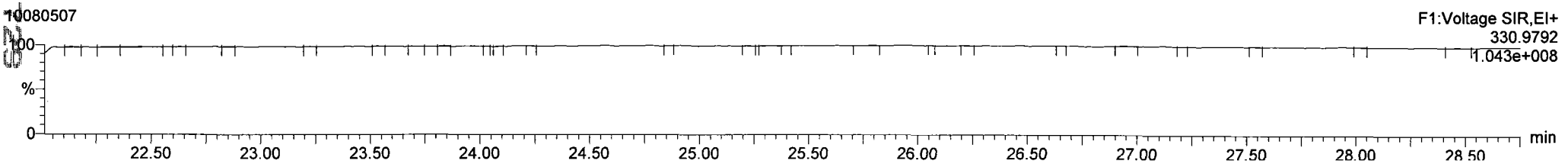
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



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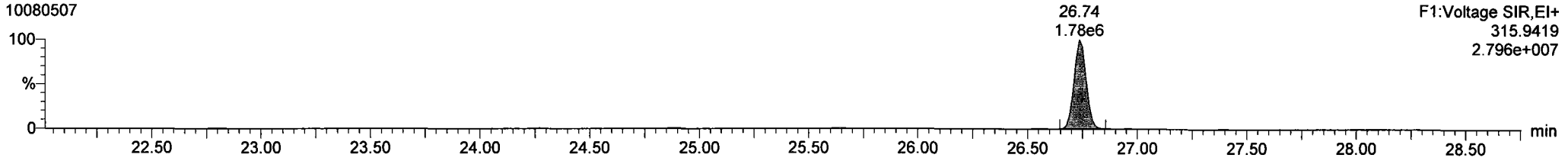
13C-2378-TCDF



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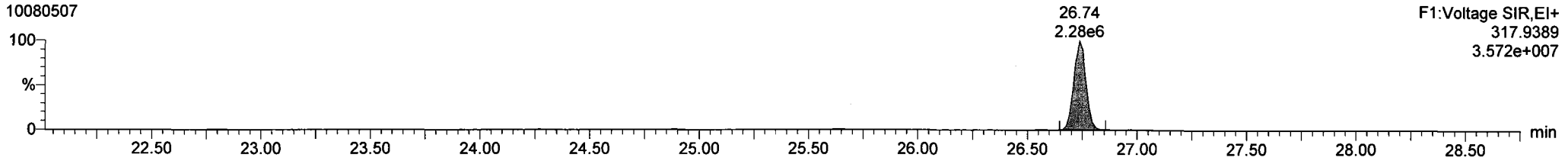
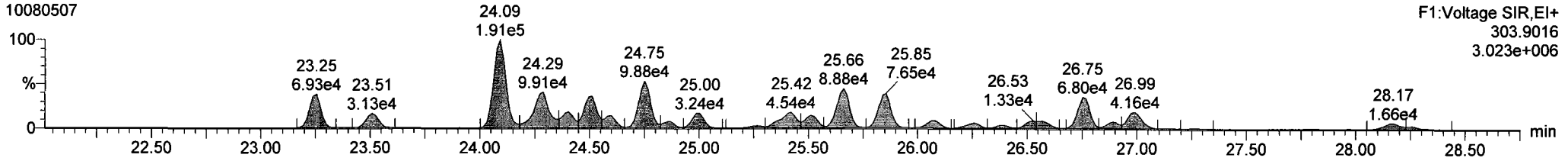
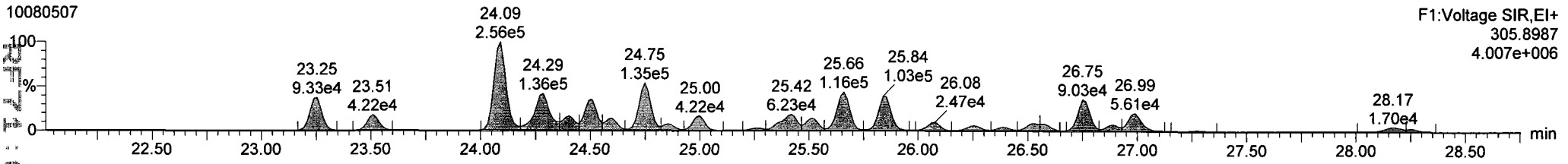


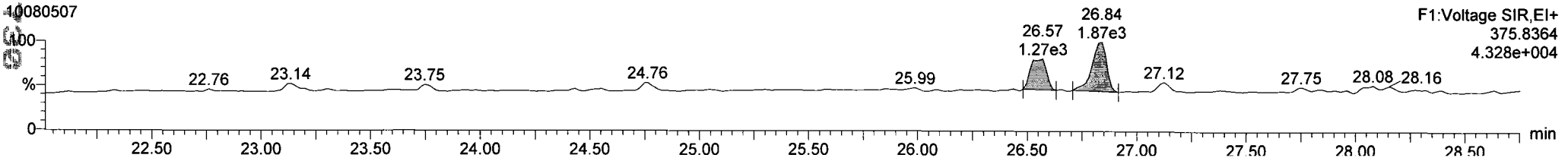
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



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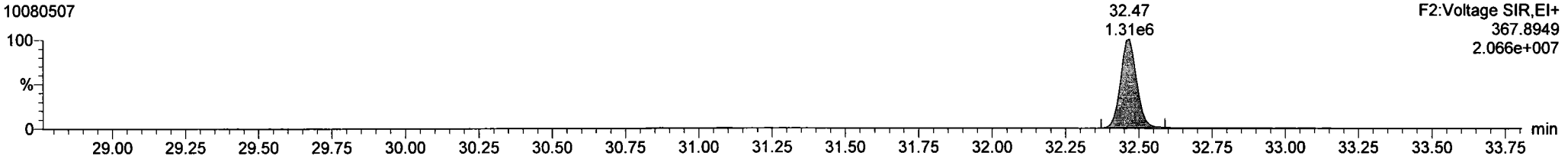
13C-12378-PeCDD



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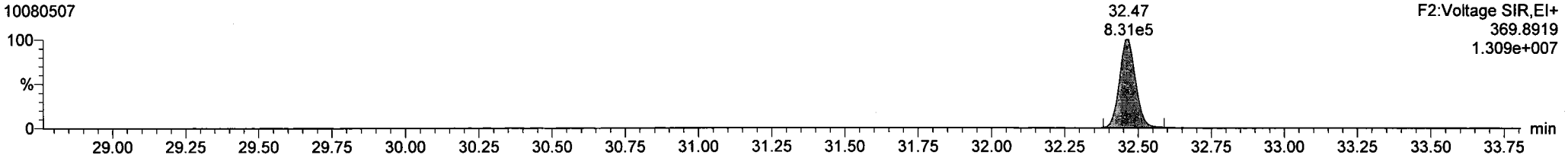
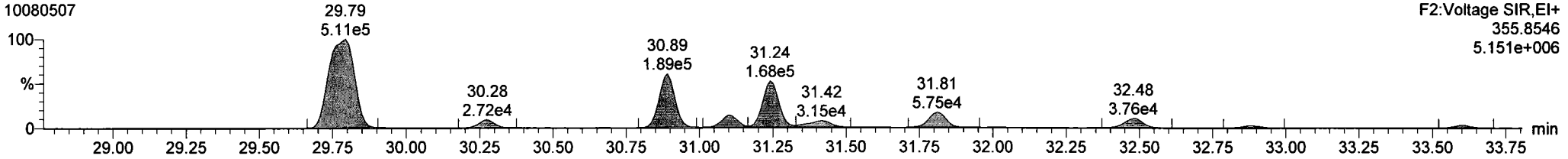
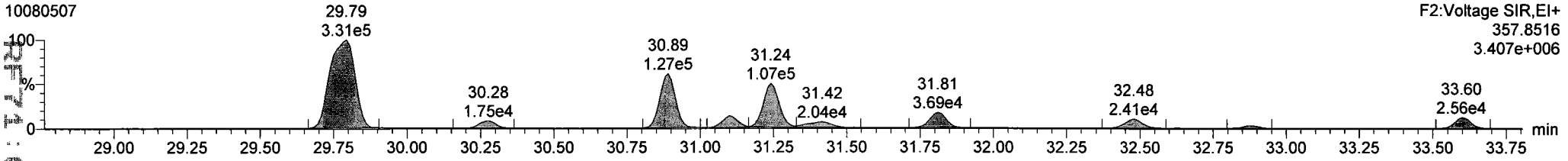


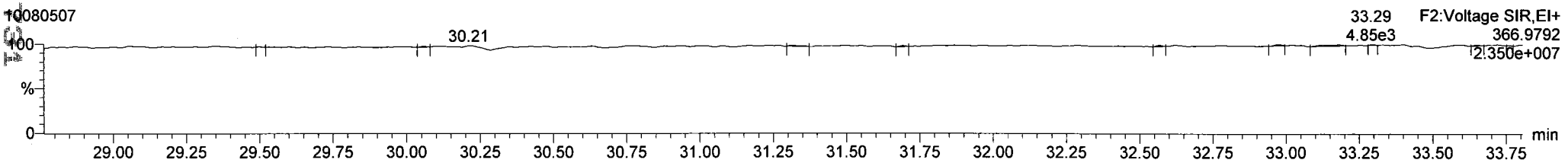
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



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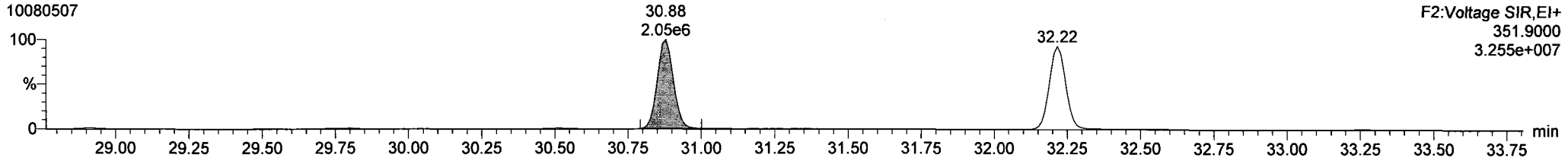
13C-12378-PeCDF



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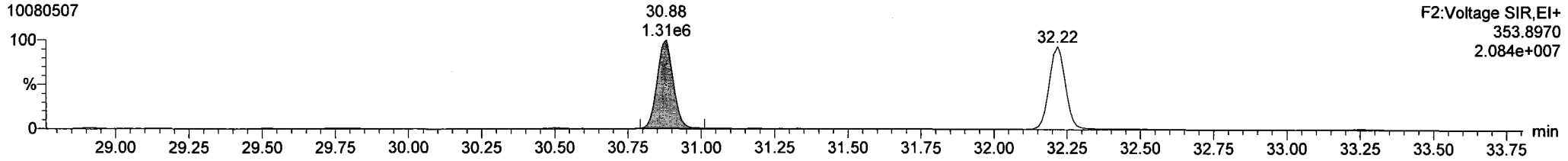
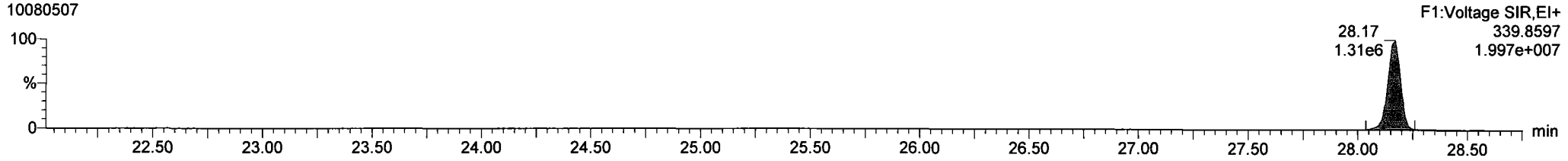
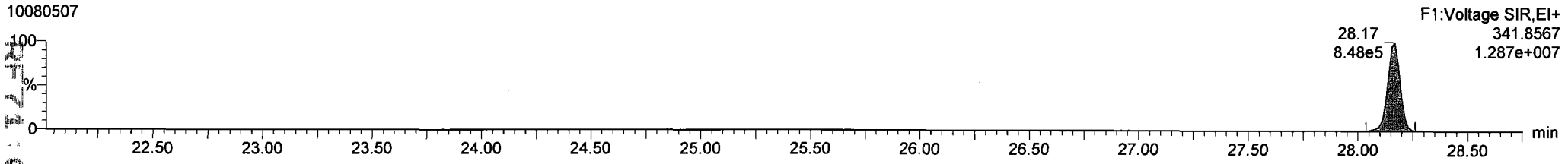


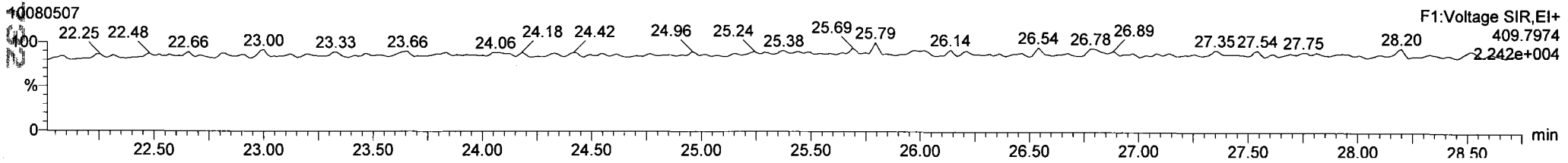
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



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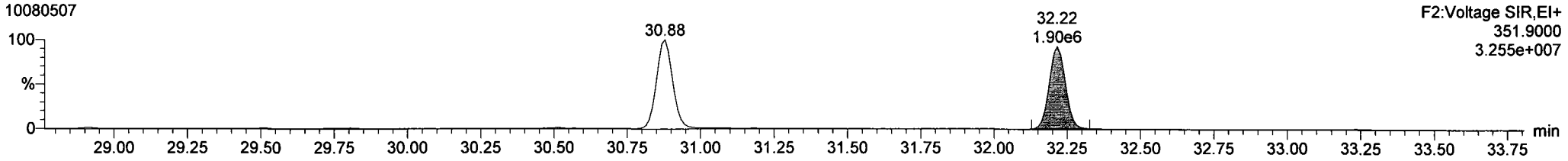
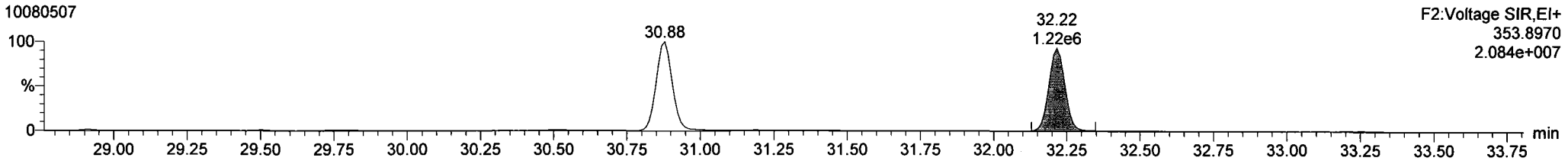
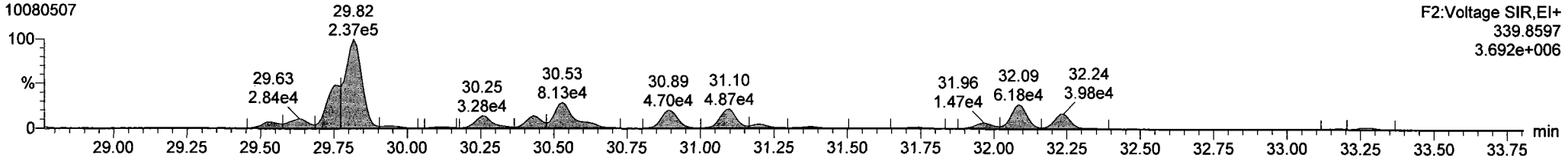
13C-23478-PeCDF



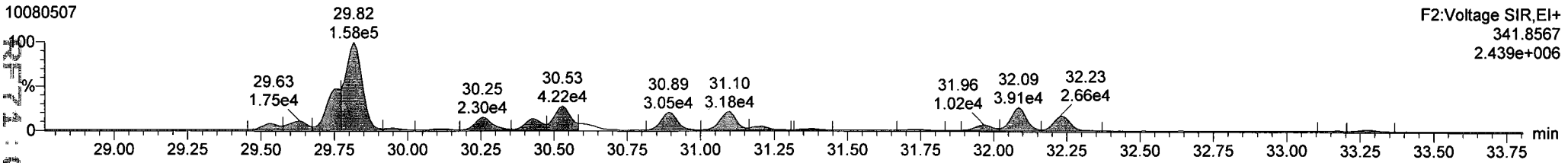
13C-23478-PeCDF



Total-pentafurans



Total-pentafurans



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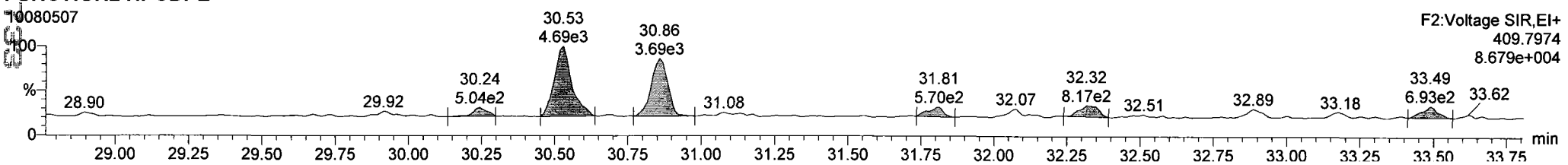

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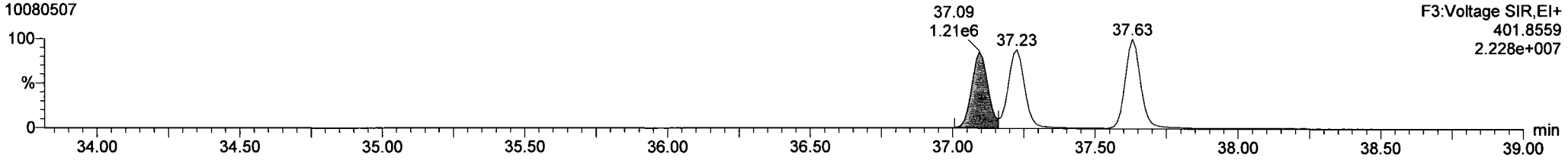
13C-123478-HxCDD



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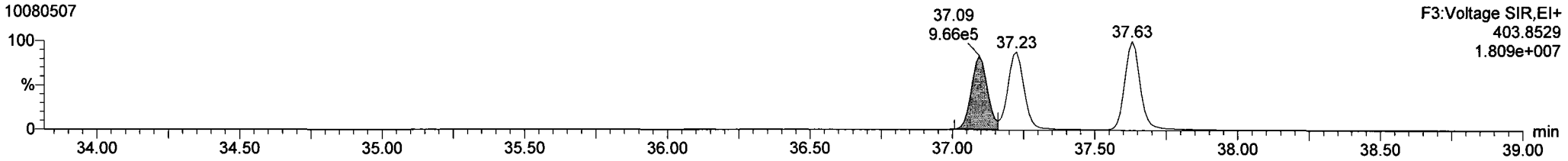
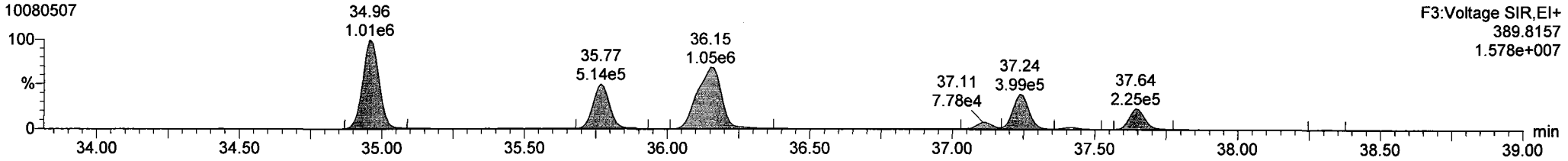
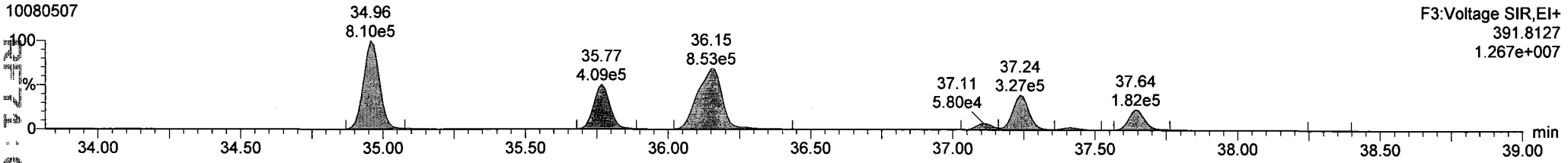


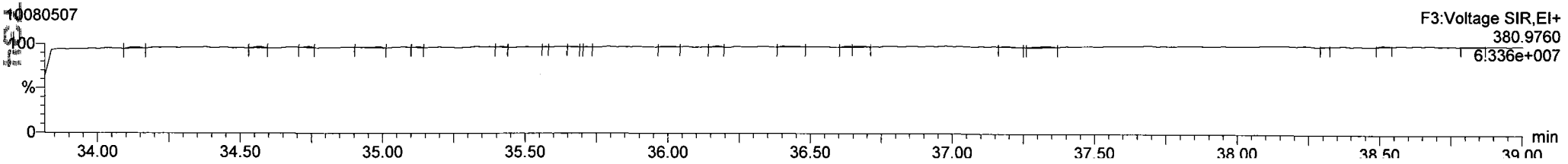
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



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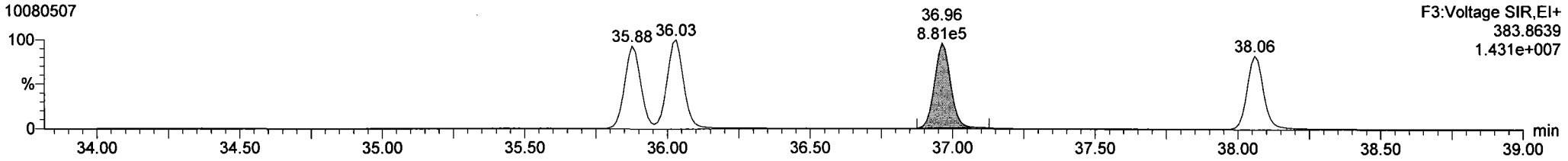

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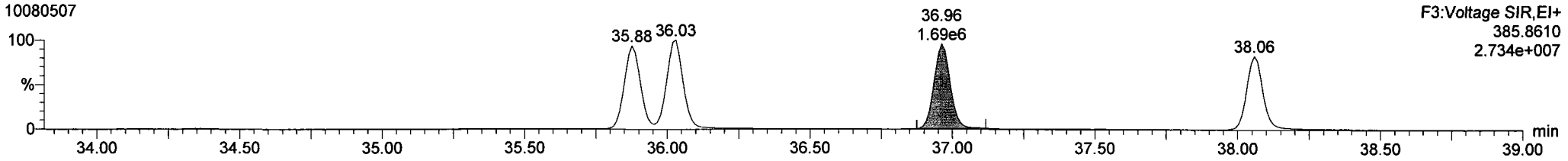
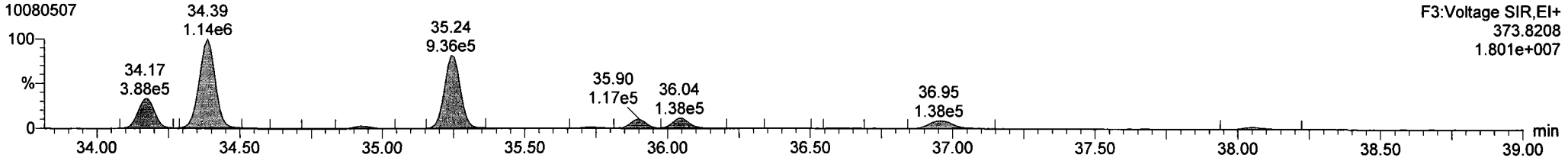
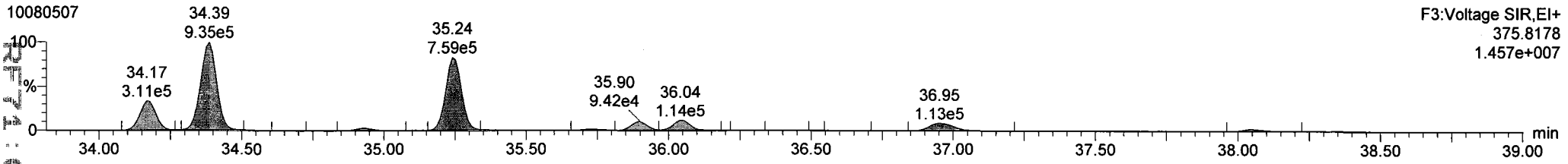


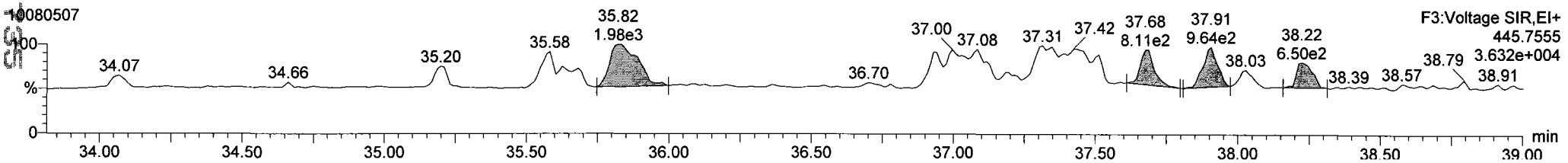
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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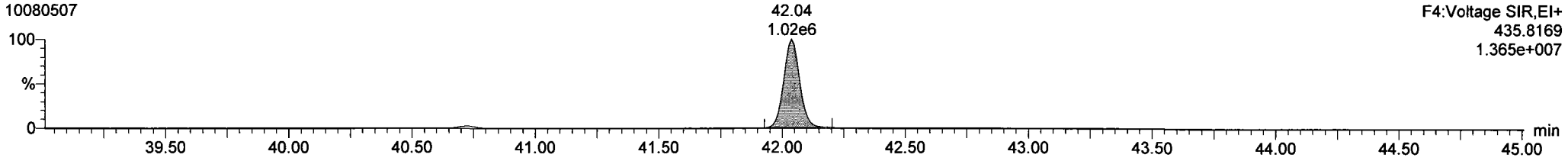

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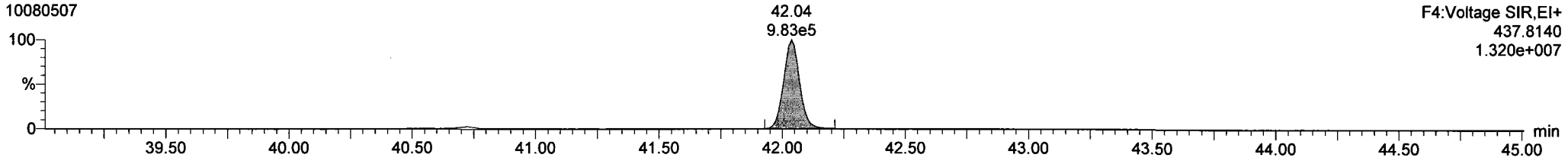
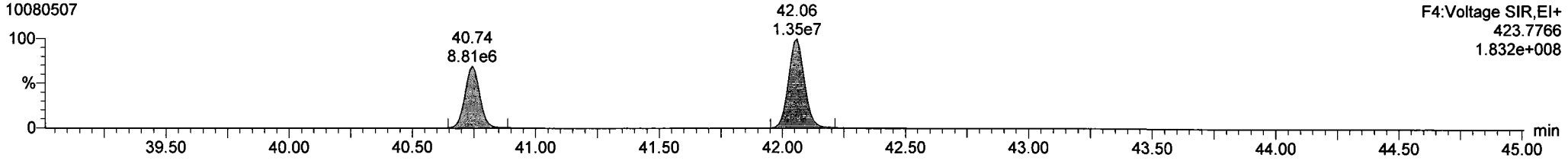
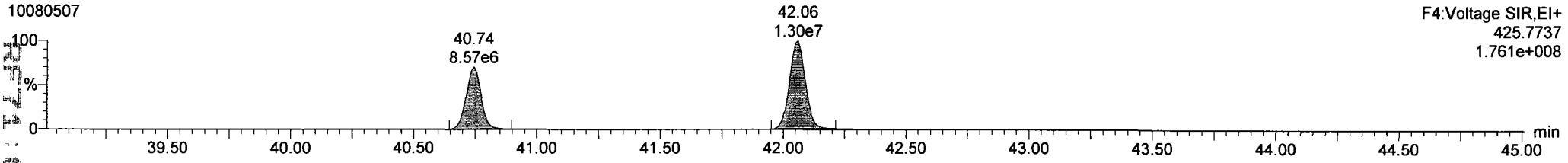


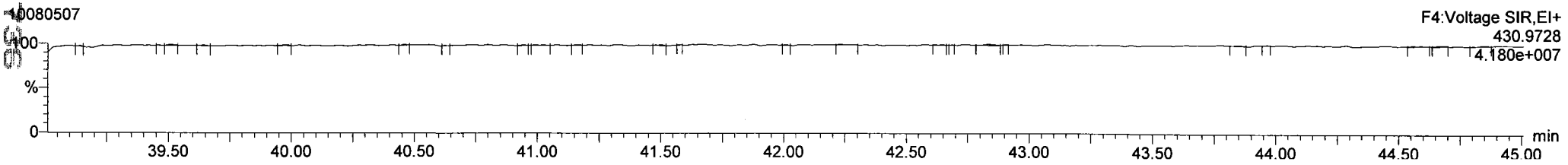
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



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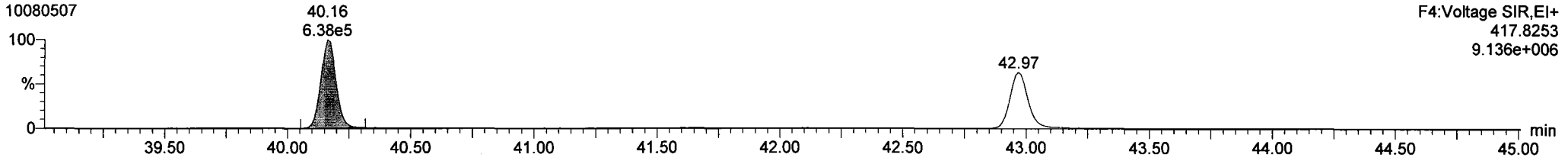
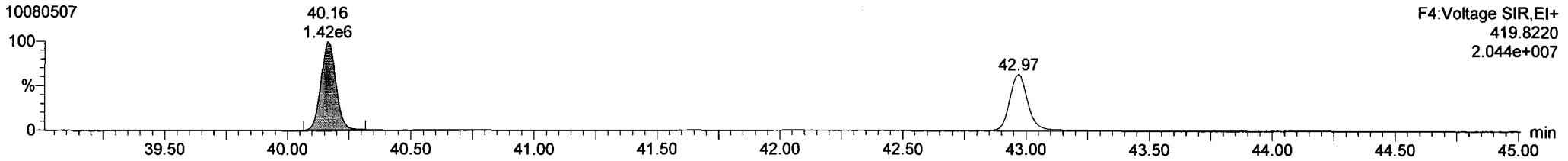
Name: 10080507, Date: 05-Aug-2010, Time: 16:46:26, ID: RF71A, Description: , Lab: , User: VTS

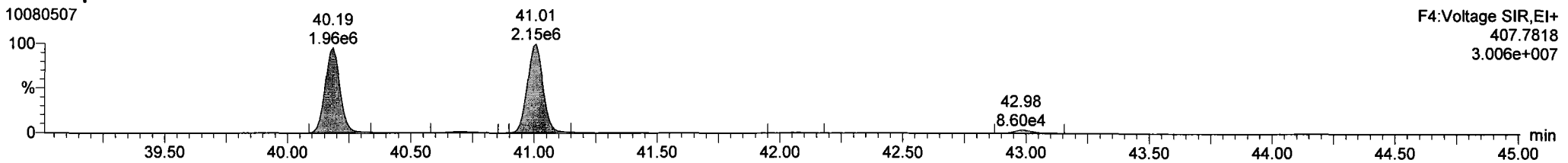
13C-1234678-HpCDF



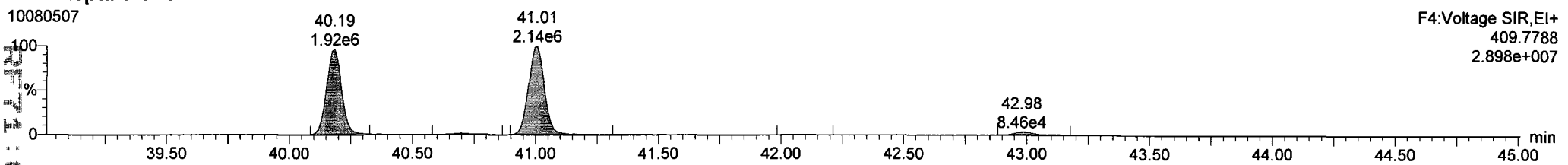
13C-1234678-HpCDF



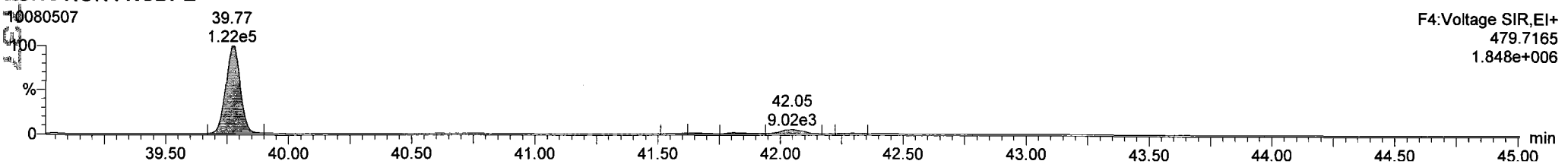
Total-heptafurans



Total-heptafurans



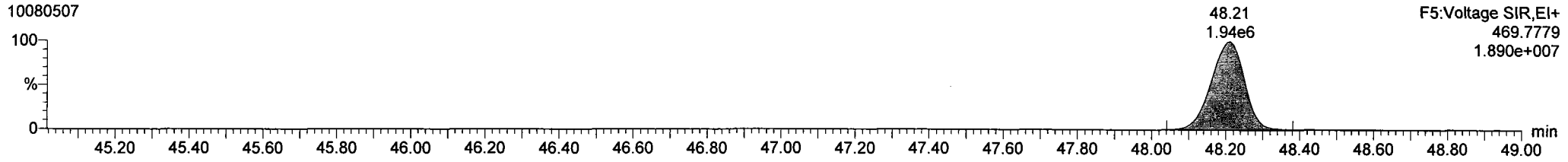
FUNCTION4 NCDPE



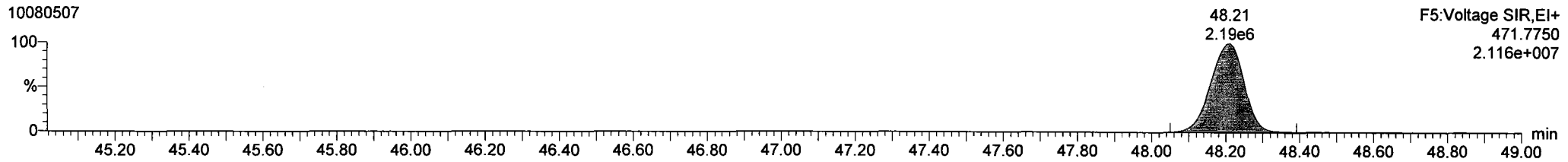
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:24:37 Pacific Daylight Time

Name: 10080507, Date: 05-Aug-2010, Time: 16:46:26, ID: RF71A, Description: , Lab: , User: VTS

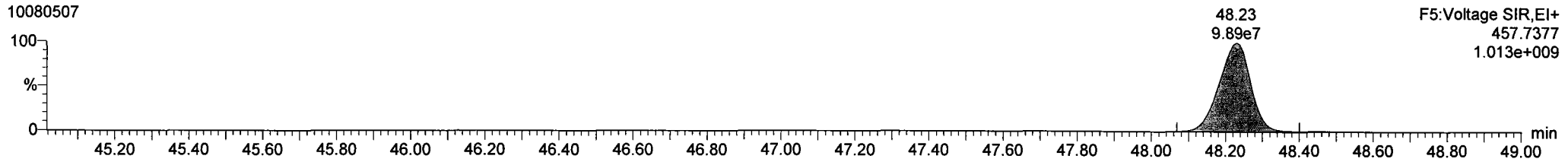
13C-OCDD



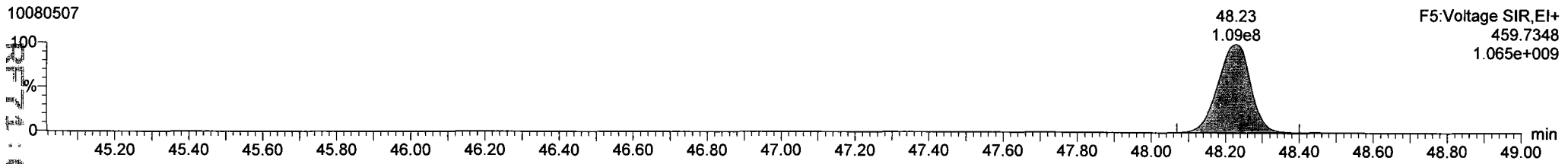
13C-OCDD



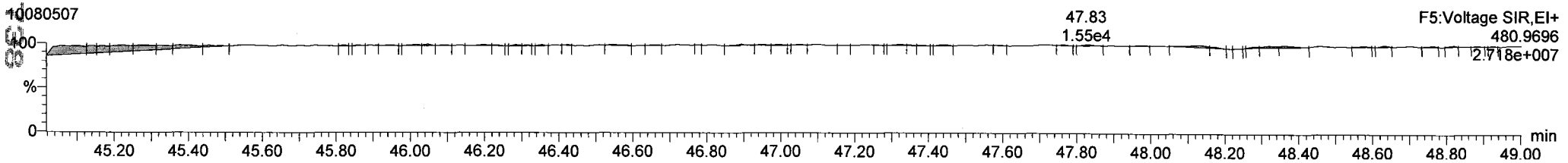
OCDD



OCDD



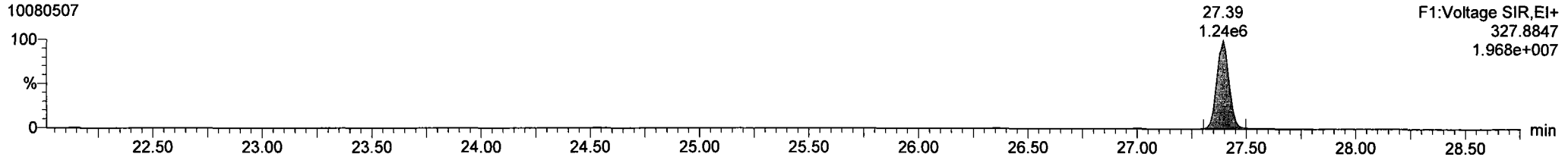
FUNCTION5 PFK



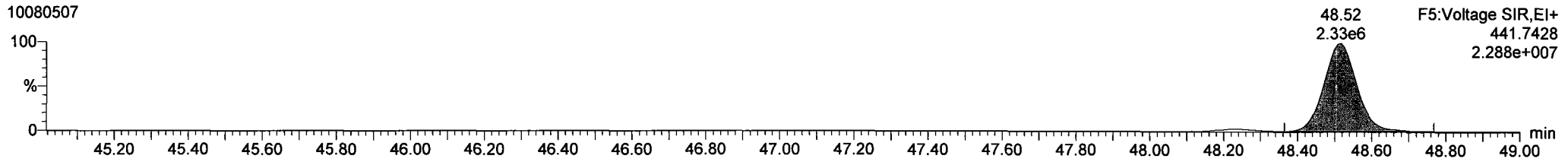
Dataset: C:\MassLynx\DIOXIN8290.PRO\100805DATA2.qld
Last Altered: Saturday, August 07, 2010 12:54:55 Pacific Daylight Time
Printed: Saturday, August 07, 2010 14:24:37 Pacific Daylight Time

Name: 10080507, Date: 05-Aug-2010, Time: 16:46:26, ID: RF71A, Description: , Lab: , User: VTS

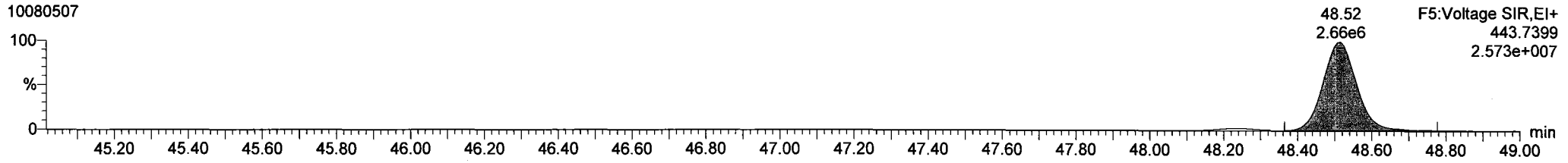
37CL-2378-TCDD



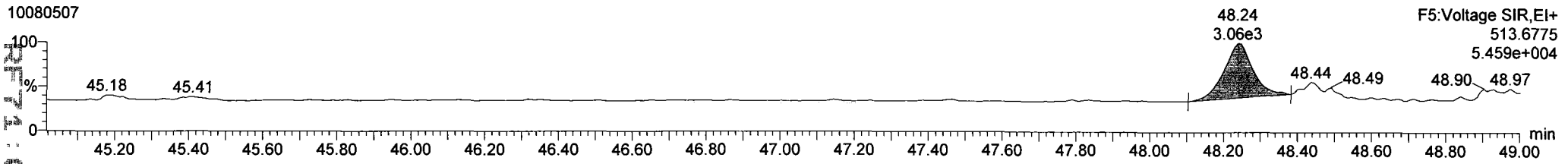
OCDF



OCDF



FUNCTION5 DCDPE



Pesticide Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

Pest PSDDA – Soil/Sed (Sed circled)
Sonication (3550B) (SOP # 3304S)
PSDDA (1-2ppb)

Preparation Test Pest # 5
ARI Job No(s) RF71
Batch set up by: JH

Bottle #	ARI Sample I.D.	Verify Client ID	Volume Extracted (dry wt)	Sonic Horn ID	KD **Hexane (X 2)**	Turbo Vap 1 2 3 (2 circled)	(REQ) Sulfur Clean ~~4.0mL~~ 2.0mL +0.5mL Ethyl Acetate (Y circled)	(REQ) Silica Gel Clean ~~(1:5)~~ 1:2.5 (Y circled)	Turbo Vap 1 2 3	FEV	Vol to Lab	Comment
	RF71 MBS	Date 08/07/10	~~25g~~ 12.50g	6	↓	↓	~~5mL~~ 2.5mL	1mL	↓	~~5mL~~ 2.5mL	1mL	(10g Actual Wt)
	SBS	↓	↓	5			↓	↓		↓	↓	↓
	SBS Dup.	↓	↓	4			↓	↓		↓	↓	↓
1	↓ A	checked	21.09	3	↓	↓	↓	↓	↓	↓	↓	
Analyst/Date	AR 08/07/10 →				RL 8/09/10	CJZ 8/9/10	⟶	SE 8/10/10 →		CJZ 8/9/10	SE 8/10/10	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	**N** 2 1689-3	~~100~~ µL 50µL	2 12/29/10	[signature]	JH
Spike	**3** 1705-3	~~50~~ µL 25µL	3/08/11	[signature]	JH
Extraction Time: 8:35		2/4/20	**Balance ID:** 21754520		

SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into 600mL or 400mL beakers. 2. Use 10g neutral Sodium Sulfate for the blanks. 3. Add surr/spike. 4. Add 8:2 Hexane/Acetone. 5. Dry using neutral Sodium Sulfate-25g Max at first-A small amt of Additional sulfate may be needed after 10 min. or before 2nd sonication? 6. Sonicate 3X with 8:2 Hexane/Acetone. 7. Collect into 500mL flask+Lg funnel with a small amount neutral glasswool plug only. NO SODIUM SULFATE. 8. KD (Normal Drying Column) on 100° bath. (Blanks=only 5g Sodium Sulfate). 9. Exchange (2 X with 20mL) Hexane. 10. TurboVap. 11. Clean-ups Required. 12. TurboVap. 13. Vial with Hexane.

A. Need Total Solids Y / N (N circled) **B. Archive/Freeze Y / N** (N circled)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RF71 Client ID: Anchor QEA

Parameter: PSDDA Pest Client Project: Bay Wood

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	JW 7/28/16
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☒ Clay (Difficult to homogenize/Mixed with Kitchen Aid)= A	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☒ Other Notes/Comments= Due to limited volume received, extracted 12.5g dry to a 2.5mL final volume to achieve requested detection limits.	JH 8/1/16

Pesticide Raw Data
Initial Calibration

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

v

GC Analyst Notes / Corrective Action Log

ARI Project ID: Pesticides Client ID: ARI

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): INDA & Toxaphene sublists

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 7/2/2010 Analysis Start: 7/2/2010

Endrin/DDT Breakdown <15%? YES / NO / NA ~~Method~~ Instrument Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO / NA

~~CCal~~ ICV Meets ~~RF & %RSD~~ %D Criteria? YES / NO Surrogate Recovery In Control? YES / NO / NA

Manual Integrations for ICal? YES / NO Manual Integrations for Samples? YES / NO / NA

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Points Dropped: 2nd col. Heptachlor epoxide b 1.250ppb dropped below RL of 2.50ppb.

- Updated ISTDs after curve was generated

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 7/6/2010

Reviewer: _____ **Date:** 7/6/10

Analytical Resources Inc.: Organics Instrument Log

ECD6 Serial No.: US00007128

Date: 7/2/10 Analysis: Pesticide Analyst: AR

GC Program: PEST.M Column No: 832564/832741 Column Type: RTX-CLP1/2 0.32

Instrument Tune (.U or .CT.): NA EM Voltage: NA

Calibration File: 20100702.b Curve Date: 7/2/2010

IS/SS	Ical/Ccal	LCS/ICV
1716-3	1689-4 IB, 1743-1 DS, 1743-2 WND, 1744-1 Mirex, 1737-1 Techlor, 1740-4 Toxaph	1731-1 Techlor, 1732-1 WND, 1731-4 Mirex, 1744-4 HCB/HCBD, 1731-3 INDA, 1686-1E Toxaph

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd6.i/20100702PEST.b/ical-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	02-JUL-2010 11:02	0702A003.d	1	DS	
2	02-JUL-2010 11:23	0702A004.d	1	IB	
3	02-JUL-2010 11:44	0702A005.d	1	INDAE	
4	02-JUL-2010 12:05	0702A006.d	1	INDAA	
5	02-JUL-2010 12:25	0702A007.d	1	INDAB	
6	02-JUL-2010 12:46	0702A008.d	1	INDAC	
7	02-JUL-2010 13:07	0702A009.d	1	INDAD	
8	02-JUL-2010 13:28	0702A010.d	1	INDAF	
9	02-JUL-2010 13:49	0702A011.d	1	INDAG	
10	02-JUL-2010 14:10	0702A012.d	1	INDA ICV	
11	02-JUL-2010 14:31	0702A013.d	1	HCB/HCBD ICV	
12	02-JUL-2010 14:51	0702A014.d	1	HCBD ICV	
13	02-JUL-2010 15:12	0702A015.d	1	TECHLOR	
14	02-JUL-2010 15:33	0702A016.d	1	TECHLOR ICV	
15	02-JUL-2010 15:54	0702A017.d	1	TOXAPH 2500	
16	02-JUL-2010 16:15	0702A018.d	1	TOXAPH 125	
17	02-JUL-2010 16:36	0702A019.d	1	TOXAPH 250	
18	02-JUL-2010 16:57	0702A020.d	1	TOXAPH 500	
19	02-JUL-2010 17:18	0702A021.d	1	TOXAPH 1000	
20	02-JUL-2010 17:38	0702A022.d	1	TOXAPH 5000	
21	02-JUL-2010 17:59	0702A023.d	1	TOXAPH 10000	
22	02-JUL-2010 18:20	0702A024.d	1	TOXAPH ICV	

AR 7/6/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd6.i/20100702PEST.b/ical-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	02-JUL-2010 11:02	0702A003.d	1	DS	
2	02-JUL-2010 11:23	0702A004.d	1	IB	
3	02-JUL-2010 11:44	0702A005.d	1	INDAE	
4	02-JUL-2010 12:05	0702A006.d	1	INDAA	
5	02-JUL-2010 12:25	0702A007.d	1	INDAB	
6	02-JUL-2010 12:46	0702A008.d	1	INDAC	
7	02-JUL-2010 13:07	0702A009.d	1	INDAD	
8	02-JUL-2010 13:28	0702A010.d	1	INDAF	
9	02-JUL-2010 13:49	0702A011.d	1	INDAG	
10	02-JUL-2010 14:10	0702A012.d	1	INDA ICV	
11	02-JUL-2010 14:31	0702A013.d	1	HCB/HCBD ICV	
12	02-JUL-2010 14:51	0702A014.d	1	HCBD ICV	
13	02-JUL-2010 15:12	0702A015.d	1	TECHLOR	
14	02-JUL-2010 15:33	0702A016.d	1	TECHLOR ICV	
15	02-JUL-2010 15:54	0702A017.d	1	TOXAPH 2500	
16	02-JUL-2010 16:15	0702A018.d	1	TOXAPH 125	
17	02-JUL-2010 16:36	0702A019.d	1	TOXAPH 250	
18	02-JUL-2010 16:57	0702A020.d	1	TOXAPH 500	
19	02-JUL-2010 17:18	0702A021.d	1	TOXAPH 1000	
20	02-JUL-2010 17:38	0702A022.d	1	TOXAPH 5000	
21	02-JUL-2010 17:59	0702A023.d	1	TOXAPH 10000	
22	02-JUL-2010 18:20	0702A024.d	1	TOXAPH ICV	

AR 7/6/2010

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ecd6.i
Lab File ID: 0702A005.d
Lab Smp Id: INDAE
Analysis Type: PEST
Quant Type: ISTD
Operator: ar
Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Misc Info:

Calibration Date: 02-JUL-2010
Calibration Time: 15:54
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
54 1Bromo-2nitrobenz	2340440	1170220	4680880	2496854	6.68
58 Hexabromobiphenyl	3349282	1674641	6698564	3575051	6.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
54 1Bromo-2nitrobenz	3.79	3.29	4.29	3.78	-0.16
58 Hexabromobiphenyl	12.99	12.49	13.49	12.99	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ecd6.i
Lab File ID: 0702A005.d
Lab Smp Id: INDAE
Analysis Type: PEST
Quant Type: ISTD
Operator: ar
Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Misc Info:

Calibration Date: 02-JUL-2010
Calibration Time: 11:44

Level: HIGH
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
52 1Bromo-2nitrobenz	1542232	771116	3084464	1542232	0.00
55 Hexabromobiphenyl	1636073	818036	3272146	1636073	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
52 1Bromo-2nitrobenz	3.75	3.25	4.25	3.75	0.09
55 Hexabromobiphenyl	13.91	13.41	14.41	13.91	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20100702PEST.b/ical-1.b

ARI Job No.: DS Method: PEST0702.m Instrument: ecd6.i Date: 02-JUL-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1102	0702A003.d	DS		1	NO MANUAL INTEGRATION
1123	0702A004.d	IB		1	NO MANUAL INTEGRATION
1144	0702A005.d	INDAE		1	NO MANUAL INTEGRATION
1205	0702A006.d	INDAA		1	NO MANUAL INTEGRATION
1225	0702A007.d	INDAB		1	NO MANUAL INTEGRATION
1246	0702A008.d	INDAC		1	NO MANUAL INTEGRATION
1307	0702A009.d	INDAD		1	NO MANUAL INTEGRATION
1328	0702A010.d	INDAF		1	NO MANUAL INTEGRATION
1349	0702A011.d	INDAG		1	NO MANUAL INTEGRATION
1410	0702A012.d	INDA ICV		1	NO MANUAL INTEGRATION
1431	0702A013.d	HCB/HCBD ICV		1	NO MANUAL INTEGRATION
1451	0702A014.d	HCBD ICV		1	NO MANUAL INTEGRATION
1512	0702A015.d	TECHLOR		1	NO MANUAL INTEGRATION
1533	0702A016.d	TECHLOR ICV		1	NO MANUAL INTEGRATION
1554	0702A017.d	TOXAPH 2500		1	NO MANUAL INTEGRATION
1615	0702A018.d	TOXAPH 125		1	NO MANUAL INTEGRATION
1636	0702A019.d	TOXAPH 250		1	NO MANUAL INTEGRATION
1657	0702A020.d	TOXAPH 500		1	NO MANUAL INTEGRATION
1718	0702A021.d	TOXAPH 1000		1	NO MANUAL INTEGRATION
1738	0702A022.d	TOXAPH 5000		1	NO MANUAL INTEGRATION
1759	0702A023.d	TOXAPH 10000		1	Hexabromobiphenyl, Decachlorobiphenyl,
1820	0702A024.d	TOXAPH ICV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd6.i/20100702PEST.b/ical-2.b

ARI Job No.: DS Method: PEST0702B.m Instrument: ecd6.i Date: 02-JUL-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1102	0702A003.d	DS		1	NO MANUAL INTEGRATION
1123	0702A004.d	IB		1	NO MANUAL INTEGRATION
1144	0702A005.d	INDAE		1	NO MANUAL INTEGRATION
1205	0702A006.d	INDAA		1	NO MANUAL INTEGRATION
1225	0702A007.d	INDAB		1	NO MANUAL INTEGRATION
1246	0702A008.d	INDAC		1	NO MANUAL INTEGRATION
1307	0702A009.d	INDAD		1	NO MANUAL INTEGRATION
1328	0702A010.d	INDAF		1	NO MANUAL INTEGRATION
1349	0702A011.d	INDAG		1	NO MANUAL INTEGRATION
1410	0702A012.d	INDA ICV		1	NO MANUAL INTEGRATION
1431	0702A013.d	HCB/HCBD ICV		1	NO MANUAL INTEGRATION
1451	0702A014.d	HCBD ICV		1	NO MANUAL INTEGRATION
1512	0702A015.d	TECHLOR		1	NO MANUAL INTEGRATION
1533	0702A016.d	TECHLOR ICV		1	NO MANUAL INTEGRATION
1554	0702A017.d	TOXAPH 2500		1	Toxaphene,
1615	0702A018.d	TOXAPH 125		1	NO MANUAL INTEGRATION
1636	0702A019.d	TOXAPH 250		1	NO MANUAL INTEGRATION
1657	0702A020.d	TOXAPH 500		1	NO MANUAL INTEGRATION
1718	0702A021.d	TOXAPH 1000		1	NO MANUAL INTEGRATION
1738	0702A022.d	TOXAPH 5000		1	NO MANUAL INTEGRATION
1759	0702A023.d	TOXAPH 10000		1	NO MANUAL INTEGRATION
1820	0702A024.d	TOXAPH ICV		1	NO MANUAL INTEGRATION

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Batch File: /chem2/ecd6.i/20100702PEST.b/ical-1.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0702A005	0702A006	0702A007	0702A008	0702A009	0702A010	0702A011
INJ.DATE:	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010
INJ.TIME:	11:44	12:05	12:25	12:46	13:07	13:28	13:49

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	2.521	2.521	2.520	2.521	2.519	2.521	2.521	2.521	2.471-2.571	2.521	0.001
* 54 1Bromo-2nitrobenzene	3.784	3.785	3.785	3.785	3.785	3.786	3.786	3.789	3.739-3.839	3.785	0.001
* 58 Hexabromobiphenyl	12.992	12.993	12.993	12.992	12.993	12.993	12.992	12.993	12.943-13.043	12.993	0.001
$ 2 Tetrachloro-m-xylene	4.656	4.662	4.661	4.660	4.658	4.655	4.653	4.653	4.603-4.703	4.658	0.003
3 Hexachlorobenzene	5.042	5.049	5.048	5.046	5.045	5.041	5.040	5.040	4.990-5.090	5.044	0.004
4 alpha-BHC	5.193	5.194	5.194	5.194	5.194	5.193	5.192	5.192	5.142-5.242	5.193	0.001
5 gamma-BHC (Lindane)	5.476	5.477	5.477	5.477	5.477	5.476	5.475	5.475	5.425-5.525	5.476	0.001
6 beta-BHC	5.555	5.560	5.560	5.558	5.557	5.554	5.553	5.553	5.503-5.603	5.557	0.003
7 delta-BHC	5.725	5.729	5.729	5.728	5.727	5.724	5.723	5.723	5.673-5.773	5.726	0.002
8 Heptachlor	5.926	5.926	5.926	5.926	5.926	5.926	5.926	5.926	5.876-5.976	5.926	0.000
9 Aldrin	6.232	6.231	6.232	6.232	6.232	6.231	6.232	6.232	6.182-6.282	6.232	0.000
38 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.577-13.677	+++++	+++++
10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.819-10.919	+++++	+++++
11 Heptachlor epoxide b	6.906	6.907	6.906	6.906	6.906	6.907	6.907	6.907	6.857-6.957	6.907	0.000
12 gamma-Chlordane	7.065	7.065	7.065	7.065	7.065	7.065	7.065	7.065	7.015-7.115	7.065	0.000
13 alpha-Chlordane	7.240	7.240	7.240	7.240	7.240	7.240	7.240	7.240	7.190-7.290	7.240	0.000
14 Endosulfan I	7.441	7.441	7.441	7.441	7.441	7.441	7.441	7.441	7.391-7.491	7.441	0.000

Reviewer 1 AR Date: 7/6/2010
Reviewer 2 Date: 7/6/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Batch File: /chem2/ecd6.i/20100702PEST.b/ical-1.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 4,4'-DDE	7.317	7.320	7.320	7.319	7.319	7.317	7.317	7.317	7.267-7.367	7.318	0.001
16 Dieldrin	7.803	7.803	7.803	7.803	7.803	7.803	7.803	7.803	7.753-7.853	7.803	0.000
17 Endrin	8.199	8.199	8.198	8.199	8.199	8.199	8.199	8.199	8.149-8.249	8.199	0.000
18 4,4'-DDD	8.282	8.288	8.287	8.285	8.285	8.283	8.281	8.281	8.231-8.331	8.285	0.003
19 Endosulfan II	8.617	8.618	8.618	8.618	8.618	8.617	8.617	8.617	8.567-8.667	8.617	0.001
20 4,4'-DDT	8.838	8.841	8.840	8.840	8.840	8.839	8.837	8.837	8.787-8.887	8.839	0.002
21 Endrin aldehyde	9.529	9.531	9.532	9.530	9.530	9.530	9.530	9.530	9.480-9.580	9.530	0.001
22 Methoxychlor	10.033	10.038	10.037	10.037	10.036	10.033	10.033	10.033	9.983-10.083	10.035	0.002
23 Endosulfan sulfate	10.677	10.680	10.678	10.678	10.677	10.677	10.677	10.677	10.627-10.727	10.678	0.001
24 Endrin ketone	11.264	11.265	11.265	11.264	11.265	11.264	11.263	11.263	11.213-11.313	11.264	0.001
$ 25 Decachlorobiphenyl	12.803	12.804	12.804	12.803	12.804	12.804	12.804	12.804	12.754-12.854	12.804	0.000
26 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.355	5.305-5.405	+++++	+++++
27 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.831-4.931	+++++	+++++
28 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.309-5.409	+++++	+++++
29 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.358	5.308-5.408	+++++	+++++
30 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.063	6.013-6.113	+++++	+++++
31 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.697	6.647-6.747	+++++	+++++
32 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.830	7.780-7.880	+++++	+++++
33 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.251-8.351	+++++	+++++
34 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.209-11.309	+++++	+++++
35 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.728	8.678-8.778	+++++	+++++
39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.913	6.863-6.963	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Batch File: /chem2/ecd6.i/20100702PEST.b/ical-2.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0702A005	0702A006	0702A007	0702A008	0702A009	0702A010	0702A011
INJ.DATE:	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010
INJ.TIME:	11:44	12:05	12:25	12:46	13:07	13:28	13:49

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	2.519	2.518	2.518	2.518	2.517	2.518	2.518	2.518	2.468-2.568	2.518	0.001
* 52 1Bromo-2nitrobenzene	3.753	3.755	3.755	3.755	3.757	3.758	3.760	3.760	3.710-3.810	3.756	0.002
* 55 Hexabromobiphenyl	13.909	13.909	13.910	13.909	13.910	13.910	13.909	13.909	13.859-13.959	13.909	0.001
$ 2 Tetrachloro-m-xylene	4.708	4.719	4.717	4.715	4.712	4.706	4.704	4.704	4.654-4.754	4.712	0.005
3 Hexachlorobenzene	5.154	5.164	5.163	5.161	5.159	5.153	5.151	5.151	5.101-5.201	5.158	0.005
4 alpha-BHC	5.274	5.275	5.276	5.275	5.275	5.273	5.273	5.273	5.223-5.323	5.275	0.001
5 gamma-BHC (Lindane)	5.585	5.587	5.587	5.587	5.587	5.585	5.585	5.585	5.535-5.635	5.586	0.001
6 beta-BHC	5.662	5.670	5.669	5.667	5.666	5.661	5.660	5.660	5.610-5.710	5.665	0.004
7 delta-BHC	5.924	5.930	5.930	5.927	5.928	5.923	5.922	5.922	5.872-5.972	5.926	0.003
8 Heptachlor	6.002	6.002	6.002	6.002	6.003	6.003	6.003	6.003	5.953-6.053	6.002	0.000
37 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.538-14.638	+++++	+++++
9 Aldrin	6.331	6.331	6.331	6.331	6.332	6.331	6.331	6.331	6.281-6.381	6.331	0.000
10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.630-12.730	+++++	+++++
11 Heptachlor epoxide b	6.984	6.984	6.985	6.984	6.985	6.984	6.984	6.984	6.934-7.034	6.984	0.000
12 gamma-Chlordane	7.219	7.219	7.220	7.219	7.220	7.219	7.219	7.219	7.169-7.269	7.219	0.000
13 alpha-Chlordane	7.419	7.419	7.419	7.418	7.419	7.418	7.419	7.419	7.369-7.469	7.419	0.000
14 Endosulfan I	7.530	7.530	7.531	7.530	7.531	7.530	7.530	7.530	7.480-7.580	7.530	0.000

Reviewer 1 AR Date: 7/6/2010
Reviewer 2 MB Date: 7/6/10

ETF0352

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Batch File: /chem2/ecd6.i/20100702PEST.b/ical-2.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	15 4,4'-DDE	7.632	7.636	7.636	7.635	7.635	7.632	7.632	7.632	7.582-7.682	7.634	0.002
	16 Dieldrin	7.958	7.958	7.959	7.958	7.958	7.958	7.958	7.958	7.908-8.008	7.958	0.000
	17 Endrin	8.501	8.500	8.502	8.501	8.501	8.501	8.500	8.500	8.450-8.550	8.501	0.001
	18 4,4'-DDD	8.692	8.698	8.697	8.695	8.694	8.691	8.688	8.688	8.638-8.738	8.694	0.004
	19 Endosulfan II	8.940	8.942	8.942	8.941	8.941	8.940	8.939	8.939	8.889-8.989	8.941	0.001
	20 4,4'-DDT	9.403	9.404	9.405	9.405	9.404	9.401	9.400	9.400	9.350-9.450	9.403	0.002
	21 Endrin aldehyde	9.772	9.774	9.773	9.772	9.773	9.771	9.771	9.771	9.720-9.820	9.772	0.001
	22 Endosulfan sulfate	10.590	10.592	10.592	10.592	10.590	10.590	10.590	10.590	10.540-10.640	10.591	0.001
	23 Methoxychlor	11.196	11.199	11.199	11.198	11.197	11.196	11.195	11.195	11.145-11.245	11.197	0.001
	24 Endrin ketone	11.640	11.641	11.640	11.640	11.641	11.640	11.640	11.640	11.590-11.690	11.640	0.000
$	25 Decachlorobiphenyl	13.318	13.319	13.318	13.318	13.319	13.318	13.318	13.318	13.268-13.368	13.318	0.000
	26 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.512	5.462-5.562	+++++	+++++
	27 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.022	4.972-5.072	+++++	+++++
	28 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.191	5.141-5.241	+++++	+++++
	29 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.932	5.882-5.982	+++++	+++++
	30 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.935	5.885-5.985	+++++	+++++
	31 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.982	6.932-7.032	+++++	+++++
	32 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.257	8.207-8.307	+++++	+++++
	33 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.664-9.764	+++++	+++++
	34 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.741-11.841	+++++	+++++
	35 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.384	8.334-8.434	+++++	+++++
	38 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.221	7.171-7.271	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Batch File: /chem2/ecd6.i/20100702PEST.b/tical-1.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0702A017	0702A018	0702A019	0702A020	0702A021	0702A022	0702A023
INJ.DATE:	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010
INJ.TIME:	15:54	16:15	16:36	16:57	17:18	17:38	17:59

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.521	2.471-2.571	+++++	+++++
* 54 1Bromo-2nitrobenzene	3.788	3.788	3.788	3.788	3.788	3.789	3.789	3.789	3.739-3.839	3.788	0.000
* 58 Hexabromobiphenyl	12.993	12.993	12.993	12.994	12.993	12.993	12.993	12.993	12.943-13.043	12.993	0.000
$ 2 Tetrachloro-m-xylene	4.657	4.668	4.665	4.663	4.661	4.655	4.654	4.653	4.603-4.703	4.660	0.005
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.040	4.990-5.090	+++++	+++++
4 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.192	5.142-5.242	+++++	+++++
5 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.475	5.425-5.525	+++++	+++++
6 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.553	5.503-5.603	+++++	+++++
7 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.723	5.673-5.773	+++++	+++++
8 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.926	5.876-5.976	+++++	+++++
9 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.232	6.182-6.282	+++++	+++++
38 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.577-13.677	+++++	+++++
10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.819-10.919	+++++	+++++
11 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.907	6.857-6.957	+++++	+++++
12 gamma-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.065	7.015-7.115	+++++	+++++
13 alpha-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.240	7.190-7.290	+++++	+++++
14 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.441	7.391-7.491	+++++	+++++

Reviewer 1 _____ Date: 7/6/2010
Reviewer 2 _____ Date: 7/6/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Batch File: /chem2/ecd6.i/20100702PEST.b/tical-1.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	15 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.317	7.267-7.367	+++++	+++++
	16 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.803	7.753-7.853	+++++	+++++
	17 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.199	8.149-8.249	+++++	+++++
	18 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.281	8.231-8.331	+++++	+++++
	19 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.617	8.567-8.667	+++++	+++++
	20 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.837	8.787-8.887	+++++	+++++
	21 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.530	9.480-9.580	+++++	+++++
	22 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.033	9.983-10.083	+++++	+++++
	23 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.677	10.627-10.727	+++++	+++++
	24 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.263	11.213-11.313	+++++	+++++
$	25 Decachlorobiphenyl	12.804	12.804	12.804	12.804	12.804	12.804	12.804	12.804	12.754-12.854	12.804	0.000
	26 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.355	5.305-5.405	+++++	+++++
	27 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.831-4.931	+++++	+++++
	28 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.309-5.409	+++++	+++++
	29 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.358	5.308-5.408	+++++	+++++
	30 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.063	6.013-6.113	+++++	+++++
	31 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.697	6.647-6.747	+++++	+++++
	32 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.830	7.780-7.880	+++++	+++++
	33 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.251-8.351	+++++	+++++
	34 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.209-11.309	+++++	+++++
	35 Toxaphene	8.728	8.730	8.730	8.729	8.729	8.728	8.728	8.728	8.678-8.778	8.729	0.001
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.913	6.863-6.963	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Batch File: /chem2/ecd6.i/20100702PEST.b/tical-2.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0702A017	0702A018	0702A019	0702A020	0702A021	0702A022	0702A023
INJ.DATE:	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010	02-JUL-2010
INJ.TIME:	15:54	16:15	16:36	16:57	17:18	17:38	17:59

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.518	2.468-2.568	+++++	+++++
*	52 1Bromo-2nitrobenzene	3.764	3.765	3.763	3.764	3.764	3.765	3.767	3.760	3.710-3.810	3.765	0.001
*	55 Hexabromobiphenyl	13.910	13.910	13.910	13.910	13.910	13.910	13.910	13.909	13.859-13.959	13.910	0.000
$	2 Tetrachloro-m-xylene	4.711	4.728	4.724	4.721	4.716	4.708	4.705	4.704	4.654-4.754	4.716	0.009
	3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.151	5.101-5.201	+++++	+++++
	4 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.273	5.223-5.323	+++++	+++++
	5 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.585	5.535-5.635	+++++	+++++
	6 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.660	5.610-5.710	+++++	+++++
	7 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.922	5.872-5.972	+++++	+++++
	8 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.003	5.953-6.053	+++++	+++++
	37 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.538-14.638	+++++	+++++
	9 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.331	6.281-6.381	+++++	+++++
	10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.630-12.730	+++++	+++++
	11 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.984	6.934-7.034	+++++	+++++
	12 gamma-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.219	7.169-7.269	+++++	+++++
	13 alpha-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.419	7.369-7.469	+++++	+++++
	14 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.530	7.480-7.580	+++++	+++++

Reviewer 1 AL Date: 7/16/2010
Reviewer 2 Date: 7/6/10

J5195 Tical

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Batch File: /chem2/ecd6.i/20100702PEST.b/tical-2.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15	4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.632	7.582-7.682	+++++	+++++
16	Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.958	7.908-8.008	+++++	+++++
17	Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.500	8.450-8.550	+++++	+++++
18	4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.688	8.638-8.738	+++++	+++++
19	Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.939	8.889-8.989	+++++	+++++
20	4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.400	9.350-9.450	+++++	+++++
21	Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.771	9.720-9.820	+++++	+++++
22	Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.590	10.540-10.640	+++++	+++++
23	Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.195	11.145-11.245	+++++	+++++
24	Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.640	11.590-11.690	+++++	+++++
$ 25	Decachlorobiphenyl	13.318	13.319	13.319	13.318	13.318	13.318	13.318	13.318	13.268-13.368	13.318	0.000
26	Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.512	5.462-5.562	+++++	+++++
27	Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.022	4.972-5.072	+++++	+++++
28	Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.191	5.141-5.241	+++++	+++++
29	Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.932	5.882-5.982	+++++	+++++
30	Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.935	5.885-5.985	+++++	+++++
31	Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.982	6.932-7.032	+++++	+++++
32	Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.257	8.207-8.307	+++++	+++++
33	Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.664-9.764	+++++	+++++
34	Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.741-11.841	+++++	+++++
35	Toxaphene	11.778	8.385	8.385	8.384	8.385	8.383	8.384	8.384	8.334-8.434	8.869	1.283
38	2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.221	7.171-7.271	+++++	+++++

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

AR 7/6/2010

Lab ID: DS ARI Job No.: 20100702PEST

Analysis Date: 02-JUL-2010 11:02 Init. Calib. Date: 02-JUL-2010

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
4,4'-DDE	7.318	18603
Endrin	8.198	4312320
4,4'-DDD	8.287	153718
4,4'-DDT	8.837	4213151
Endrin ketone	11.264	397482
Endrin aldehyde	9.531	78110

DDT Percent Breakdown = 3.9 %
((18603+153718) * 100)/(18603+153718+4213151)

Endrin Percent Breakdown = 9.9 %
((78110+397482) * 100)/(78110+397482+4312320)

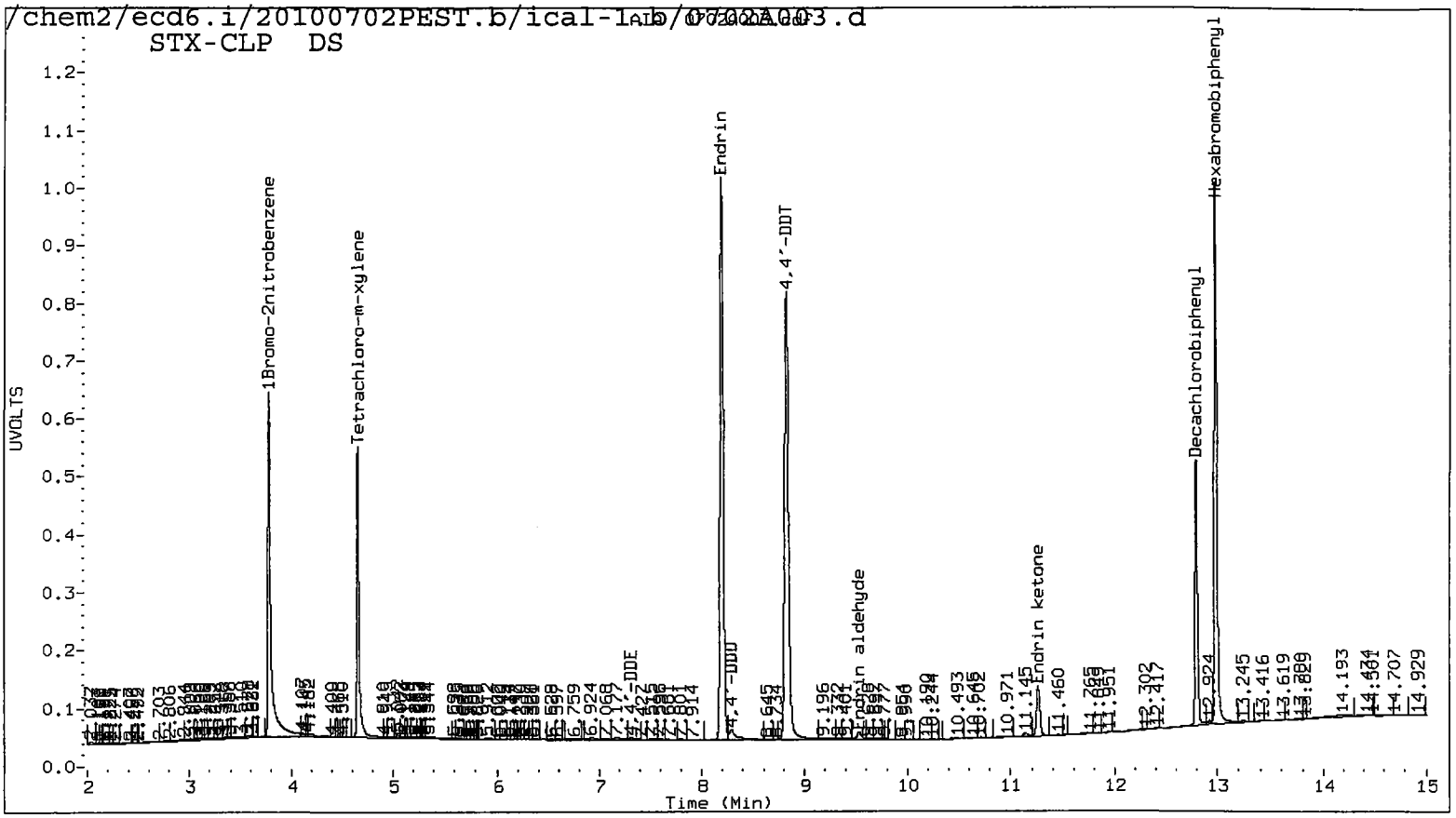
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
4,4'-DDE	7.635	5591
Endrin	8.501	2228155
4,4'-DDD	8.698	72661
4,4'-DDT	9.401	2059911
Endrin ketone	11.640	206579
Endrin aldehyde	9.774	44965

DDT Percent Breakdown = 3.7 %
((5591+72661) * 100)/(5591+72661+2059911)

Endrin Percent Breakdown = 10.1 %
((44965+206579) * 100)/(44965+206579+2228155)

Form VII Pest-1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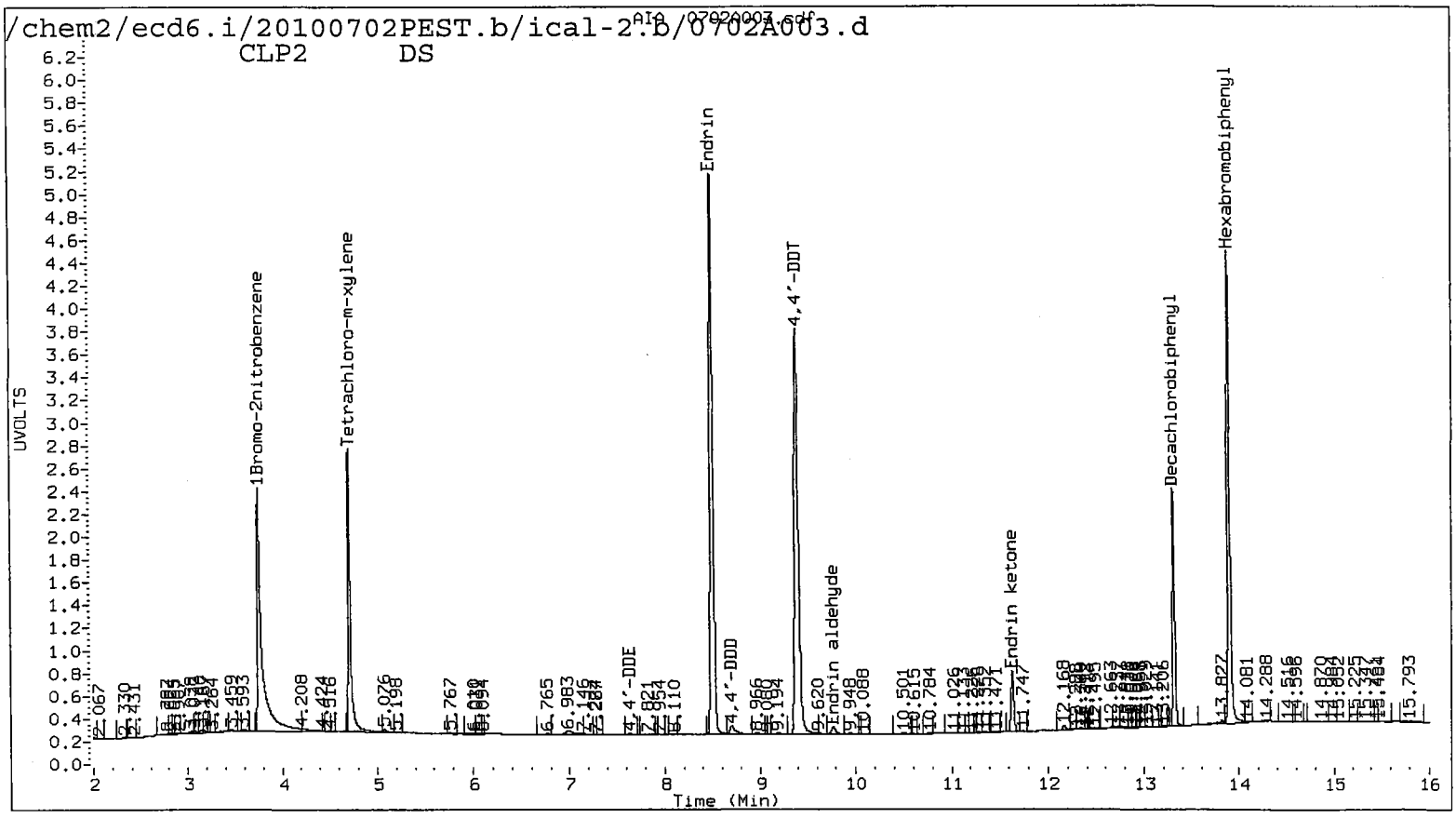
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
4,4'-DDE
Endrin
4,4'-DDD
4,4'-DDT
Endrin aldehyde
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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CLP2 DS
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
4,4'-DDE
Endrin
4,4'-DDD
4,4'-DDT
Endrin aldehyde
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A004.d ARI ID: IB
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A004.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 11:23
Compound Sublist: wpest Report Date: 07/06/2010 11:01
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.784	-0.005	2317738	3.753	-0.007	1426501	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.193	0.001	3663	----			0.0682	0.0000	---	alpha-BHC
5.568	0.016	1131	----			0.0494	0.0000	---	beta-BHC
----			----			0.0000	0.0000	---	delta-BHC
----			----			0.0000	0.0000	---	gamma-BHC (Lindane)
5.924	-0.002	4753	6.005	0.002	1339	0.0955	0.0474	67.4*	Heptachlor A B
----			----			0.0000	0.0000	---	Aldrin
----			6.992	0.008	27344	0.0000	1.0268	---	Heptachlor epoxide b
7.433	-0.008	1475	----			0.0316	0.0000	---	Endosulfan I
----			----			0.0000	0.0000	---	Dieldrin
----			----			0.0000	0.0000	---	4,4'-DDE
8.198	-0.001	1974	----			0.0492	0.0000	---	Endrin
8.646	0.029	1634	----			0.0390	0.0000	---	Endosulfan II
8.278	-0.003	2285	----			0.0570	0.0000	---	4,4'-DDD
10.649	-0.027	15580	10.591	0.002	1114	0.3818	0.0506	153.2*	Endosulfan sulfate A B
8.836	-0.001	1676	9.397	-0.004	1559	0.0425	0.0763	56.8*	4,4'-DDT A B
----			11.224	0.029	1967	0.0000	0.1984	---	Methoxychlor
11.241	-0.022	3426	11.645	0.005	1111	0.0659	0.0419	44.4*	Endrin ketone A B
9.504	-0.026	3331	----			0.0896	0.0000	---	Endrin aldehyde
7.061	-0.004	12299	----			0.2566	0.0000	---	gamma-Chlordane
----			----			0.0000	0.0000	---	alpha-Chlordane
2.520	-0.001	16963	2.517	-0.001	6794	0.2286	0.1583	36.3	Hexachlorobutadiene A B
5.044	0.005	21088	5.198	0.047	2104	0.4515	0.0813	139.0*	Hexachlorobenzene A B
----			----			0.0000	0.0000	---	Oxychlordane
6.922	0.009	17658	----			0.0000	0.0000	---	2,4-DDE
----			----			0.0000	0.0000	---	trans-Nonachlor
7.585	-0.040	1378	----			0.0000	0.0000	---	2,4-DDD
----			----			0.0000	0.0000	---	2,4-DDT
----			----			0.0000	0.0000	---	cis-Nonachlor
----			----			0.0000	0.0000	---	Mirex
12.992	-0.001	3300154	13.909	0.000	1506576	80.0000	80.0000	0.0	Hexabromobiphenyl A B
1.842	0.008	117	1.842	-0.004	2121	0.0000	0.0000	---	Hexachloroethane
4.655	0.002	1461254	4.708	0.003	858874	42.2613	41.7416	1.2	Tetrachloro-m-xylene A B
12.803	-0.001	1475039	13.318	0.000	684999	39.1391	39.1786	0.1	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	105.7	104.4	104.4~	130- 0
Decachlorobiphenyl	97.8	97.9	97.8~	130- 0

INTERNAL STANDARD SUMMARY

Column 1

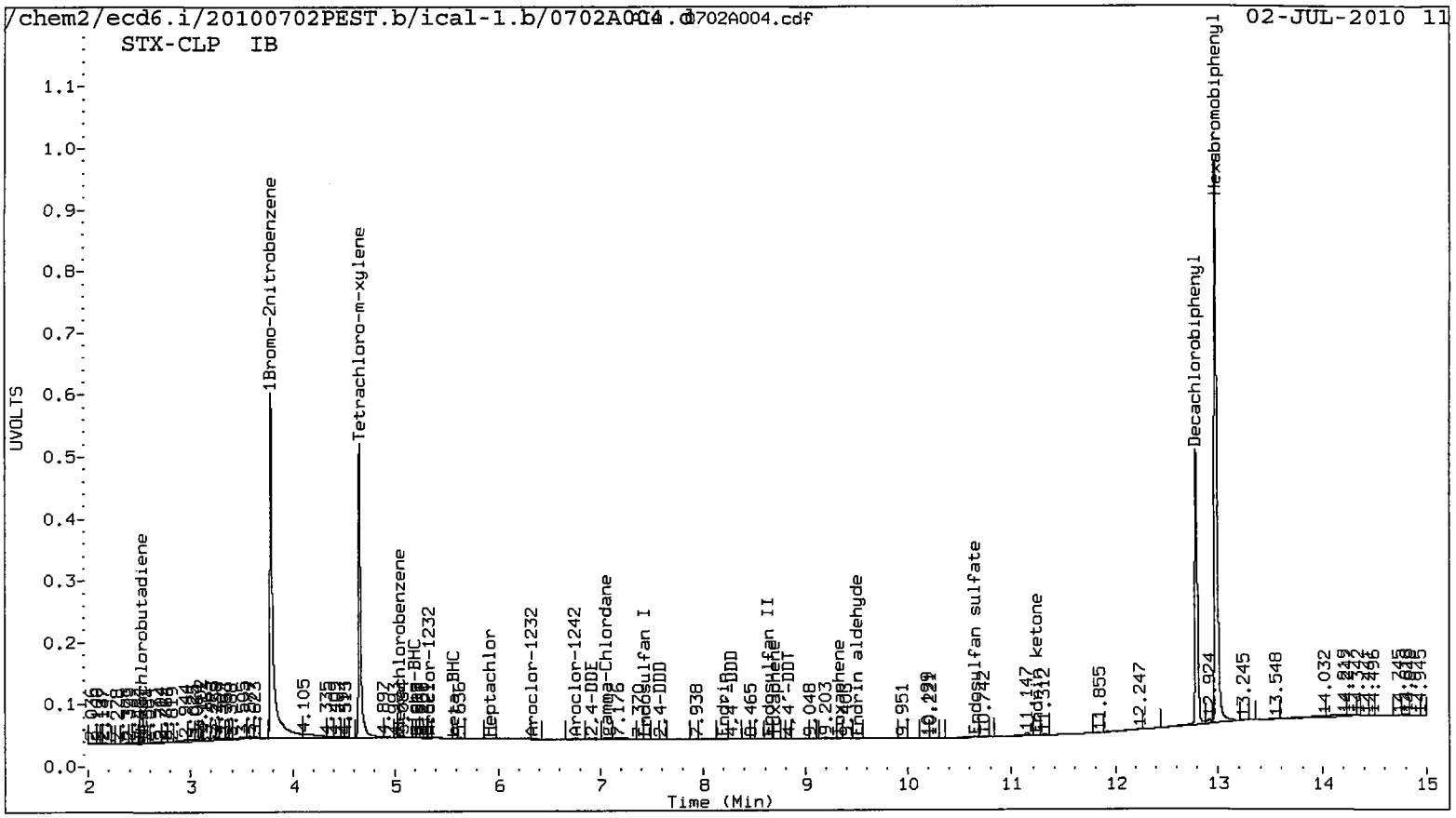
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2317738	-17.8
Hexabromobiphenyl	3321090	3300154	-0.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1426501	-22.4
Hexabromobiphenyl	1522181	1506576	-1.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.703	-0.025	1624	0.815	1	---			0.000
Toxaphene	2	9.336	0.019	3448	2.343	2	---			0.000
Toxaphene	3	9.504	0.025	3331	2.598	3	---			0.000
Toxaphene	4	---			0.000	4	---			0.000
Toxaphene	5	11.241	0.015	3426	2.785	5	---			0.000
Toxaphene	6	---			0.000	NS	---			----
Total STX-CLPAve (4 peaks): 2.135						CLP2Ave: <3 Quant Peaks				
Aroclor-1016	1	---			0.000	1	---			0.000
Aroclor-1016	2	---			0.000	2	---			0.000
Aroclor-1016	3	---			0.000	3	---			0.000
Aroclor-1016	4	---			0.000	4	---			0.000
Aroclor-1016	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.000	1	---			0.000
Aroclor-1221	2	---			0.000	2	---			0.000
Aroclor-1221	3	---			0.000	3	---			0.000
Aroclor-1221	4	---			0.000	4	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.000	1	---			0.000
Aroclor-1232	2	---			0.000	2	---			0.000
Aroclor-1232	3	---			0.000	3	---			0.000
Aroclor-1232	4	---			0.000	4	---			0.000
Aroclor-1232	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.000	1	---			0.000
Aroclor-1242	2	---			0.000	2	---			0.000
Aroclor-1242	3	---			0.000	3	---			0.000
Aroclor-1242	4	---			0.000	4	---			0.000
Aroclor-1242	5	---			0.000	5	---			0.000
Aroclor-1242	6	---			0.000	NS	---			----
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.000	1	---			0.000
Aroclor-1248	2	---			0.000	2	---			0.000
Aroclor-1248	3	---			0.000	3	---			0.000
Aroclor-1248	4	---			0.000	4	---			0.000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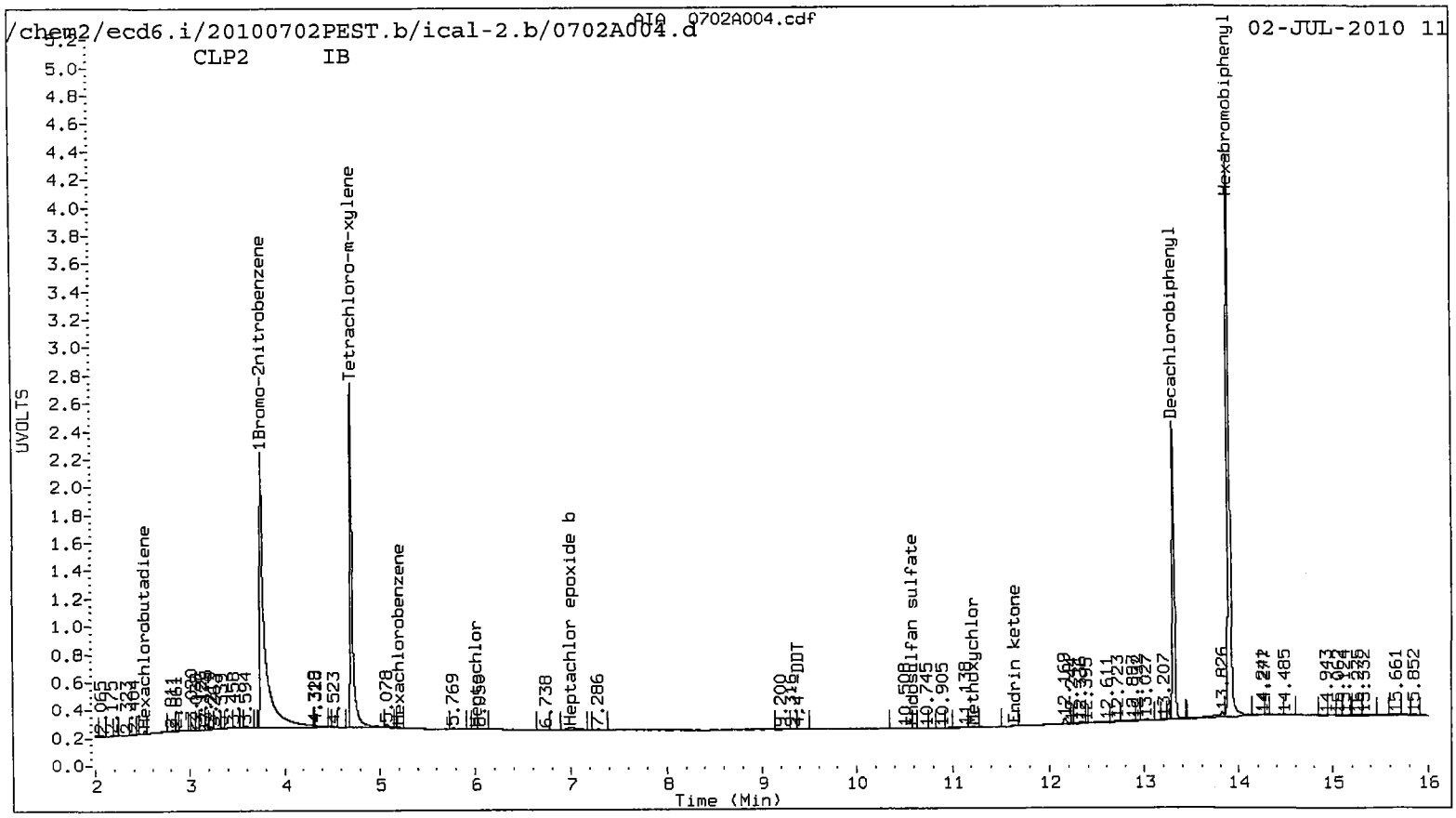
02-JUL-2010 11
STX-CLP IB
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobutadiene
Hexachlorobenzene
Heptachlor
Aroclor-1232
Aroclor-1242
4,4'-DDE
Gamma-Chlordane
Endosulfan I
4,4'-DDD
Endrin
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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0702A004.cdf
02-JUL-2010 11
CLP2 IB
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobutadiene
Hexachlorobenzene
Heptachlor epoxide b
4,4'-DDT
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A018.d
Level 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A019.d
Level 3: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A020.d
Level 4: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A021.d
Level 5: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A017.d
Level 6: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A022.d
Level 7: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A023.d

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	RRF	% RSD
1 Hexachlorobutadiene	2.71423	2.49334	2.37935	2.32869	2.28672	2.25618	2.38881	2.40676	6.488
3 Hexachlorobenzene	1.63987	1.54438	1.47008	1.40745	1.36542	1.32206	1.41352	1.45183	7.545
4 alpha-BHC	1.73650	1.68779	1.68074	1.67615	1.69685	1.72457	1.88562	1.72689	4.257
5 gamma-BHC (Lindane)	1.50571	1.47903	1.46252	1.46883	1.50020	1.52400	1.66779	1.51544	4.659
6 beta-BHC	0.74107	0.84425	0.80558	0.79234	0.71089	0.69644	0.74426	0.76212	7.035
7 delta-BHC	1.32366	1.29637	1.30526	1.32431	1.40509	1.43879	1.60814	1.38595	8.053

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1 / 80.000 Level 7	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
8 Heptachlor	1.65037 / 1.61396	1.56894	1.59504	1.60926	1.53993	1.52212	1.58566	2.825
37 Chlorthalonil	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Aldrin	1.45530 / 1.50726	1.43876	1.39037	1.39367	1.38925	1.39606	1.42438	3.162
10 Heptachlor Epoxide a	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Heptachlor epoxide b	+++++ / 1.41705	1.72634	1.63739	1.47062	1.37548	1.33365	1.49342	10.407
12 gamma-Chlordane	1.46517 / 1.45401	1.40857	1.43063	1.39881	1.34303	1.34799	1.40689	3.408
13 alpha-Chlordane	1.48224 / 1.41349	1.41772	1.40069	1.37243	1.32030	1.31422	1.38873	4.244
14 Endosulfan I	1.37331 / 1.32386	1.31505	1.30902	1.28594	1.24365	1.23770	1.29836	3.652
15 4,4'-DDE	1.32116 / 1.39512	1.25094	1.27145	1.30977	1.29633	1.28376	1.30408	3.566

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
16 Dieldrin	1.50060	1.43070	1.40354	1.42728	1.40894	1.39952		
	1.48434						1.43642	2.803
17 Endrin	1.26965	1.18152	1.20432	1.17101	1.17528	1.14377		
	1.14478						1.18433	3.641
18 4,4'-DDD	1.12443	1.09381	1.10757	1.09941	1.06622	1.07085		
	1.08837						1.09295	1.857
19 Endosulfan II	1.34797	1.28378	1.28307	1.26275	1.20512	1.19802		
	1.19024						1.25299	4.633
20 4,4'-DDT	1.14469	1.06521	1.08351	1.08685	1.05743	1.06683		
	1.09290						1.08535	2.689
21 Endrin aldehyde	1.39825	1.14365	1.09951	1.07568	1.00550	0.99784		
	0.98768						1.10116	13.025
22 Endosulfan sulfate	1.40485	1.23068	1.18636	1.12342	1.08871	1.07522		
	1.07205						1.16876	10.270
23 Methoxychlor	0.63076	0.56398	0.55250	0.52205	0.49444	0.46775		
	0.45334						0.52640	11.711
24 Endrin ketone	1.54007	1.44043	1.44599	1.41509	1.35386	1.33679		
	1.31504						1.40675	5.553

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	___ RRF	% RSD
	80.000 Level 7							
26 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
27 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
28 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
30 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
31 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	___ RRF	% RSD
	80.000 Level 7							
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
32 Aroclor-1260(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
33 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
35 Toxaphene(1)	0.04325	0.04111	0.04116	0.04082	0.04039	0.03769		
	0.04024						0.04067	4.046

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
(2)	0.06679	0.06334	0.06362	0.06417	0.06431	0.06048		
	0.06355						0.06375	2.908
(3)	0.07182	0.06901	0.06990	0.07100	0.07091	0.06601		
	0.07002						0.06981	2.731
(4)	0.05974	0.05607	0.05564	0.05632	0.05601	0.05280		
	0.05628						0.05612	3.596
(5)	0.02767	0.02636	0.02653	0.02721	0.02729	0.02654		
	0.02868						0.02718	3.003
38 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
39 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
40 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
41 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
42 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
43 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
44 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
45 Mirex	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
46 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
47 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
48 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
50 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Cal Date : 06-Jul-2010 10:37 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
53 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene	1.18207	1.19424	1.16707	1.14072	1.12178	1.10018	1.17142	1.15393	2.958
$ 25 Decachlorobiphenyl	1.15849	0.97505	0.96859	0.91163	0.84573	0.82561	0.81378	0.92841	13.011

Report Date: 06-Jul-2010 10:40

Calibration History

Method : /chem2/ecd6.i/20100702PEST.b/PEST0702B.m
Start Cal Date: 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.25000		
02-JUL-2010 16:15	TOXAPH	0702A018.d
02-JUL-2010 12:05	INDA	0702A006.d
Cal Level: 2 , Cal Amount: 2.50000		
02-JUL-2010 16:36	TOXAPH	0702A019.d
02-JUL-2010 12:25	INDA	0702A007.d
Cal Level: 3 , Cal Amount: 5.00000		
02-JUL-2010 16:57	TOXAPH	0702A020.d
02-JUL-2010 12:46	INDA	0702A008.d
Cal Level: 4 , Cal Amount: 10.00000		
02-JUL-2010 17:18	TOXAPH	0702A021.d
02-JUL-2010 13:07	INDA	0702A009.d
Cal Level: 5 , Cal Amount: 20.00000		
02-JUL-2010 15:54	TOXAPH	0702A017.d
02-JUL-2010 11:44	INDA	0702A005.d
Cal Level: 6 , Cal Amount: 40.00000		
02-JUL-2010 17:38	TOXAPH	0702A022.d
02-JUL-2010 13:28	INDA	0702A010.d
Cal Level: 7 , Cal Amount: 80.00000		
02-JUL-2010 17:59	TOXAPH	0702A023.d
02-JUL-2010 13:49	INDA	0702A011.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 20.0		
02-JUL-2010 11:44	INDA	0702A005.d

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A018.d
Level 2: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A019.d
Level 3: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A020.d
Level 4: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A021.d
Level 5: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A017.d
Level 6: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A022.d
Level 7: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A023.d

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
1 Hexachlorobutadiene	3.07119	2.67191	2.57131	2.44946	2.35085	2.33311		
	2.48155						2.56134	9.923
3 Hexachlorobenzene	1.76969	1.71656	1.68005	1.59266	1.50482	1.46482		
	1.55747						1.61230	7.023
4 alpha-BHC	1.73339	1.85103	1.81309	1.84194	1.80787	1.87624		
	2.06033						1.85484	5.461
5 gamma-BHC (Lindane)	1.59712	1.53998	1.59024	1.60702	1.60833	1.64222		
	1.80473						1.62709	5.165
6 beta-BHC	0.83841	0.79830	0.81463	0.81619	0.75493	0.73209		
	0.78100						0.79079	4.722
7 delta-BHC	1.53804	1.46318	1.52206	1.58271	1.60670	1.66226		
	1.84398						1.60271	7.740

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
8 Heptachlor	1.85811	1.65940	1.68515	1.68456	1.65613	1.67126		
	1.80573						1.71719	4.693
9 Aldrin	1.93046	1.54604	1.58094	1.60600	1.57092	1.59826		
	1.73692						1.65279	8.289
38 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
10 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
11 Heptachlor epoxide b	2.09256	1.71096	1.67762	1.57827	1.54822	1.51943		
	1.62771						1.67925	11.593
12 gamma-Chlordane	1.88529	1.65155	1.62660	1.57861	1.56496	1.56831		
	1.70454						1.65427	6.882
13 alpha-Chlordane	1.97634	1.72589	1.70760	1.58657	1.52805	1.51190		
	1.63189						1.66689	9.544
14 Endosulfan I	1.75998	1.64081	1.62316	1.56899	1.52855	1.52965		
	1.64124						1.61320	5.016
15 4,4'-DDE	1.54254	1.42658	1.44692	1.44243	1.45941	1.45944		
	1.58375						1.48015	3.986

Analytical Resources, Inc.

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Target Version : 3.50
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Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
16 Dieldrin	1.68293	1.58958	1.62597	1.62129	1.61455	1.61372	1.73060	1.63981	2.996
17 Endrin	1.00546	0.95080	0.95903	0.95732	0.98842	0.96812	0.98134	0.97293	2.021
18 4,4'-DDD	0.96094	0.91653	0.91265	0.91168	0.90786	0.92705	1.27069	0.97249	13.649
19 Endosulfan II	1.08869	1.02877	1.01134	0.99250	0.98433	0.99902	1.00751	1.01602	3.453
20 4,4'-DDT	0.98204	0.94660	0.93743	0.93212	0.93492	0.95884	0.99434	0.95519	2.564
21 Endrin aldehyde	1.01631	0.93777	0.90705	0.89433	0.85355	0.85369	0.84900	0.90167	6.703
22 Methoxychlor	0.58720	0.54751	0.53407	0.51441	0.49085	0.46518	0.45155	0.51297	9.313
23 Endosulfan sulfate	1.11530	1.00781	0.98874	0.96620	0.95336	0.94431	0.94926	0.98928	6.075
24 Endrin ketone	1.42855	1.30482	1.27946	1.25618	1.20140	1.18488	1.16995	1.26075	7.094

Analytical Resources, Inc.

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Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
26 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
27 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

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Target Version : 3.50
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Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	___ RRF	% RSD
	80.000 Level 7							
28 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(6)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Aroclor-1260(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	___ RRF	% RSD
	80.000 Level 7							
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
35 Toxaphene(1)	0.04850	0.04805	0.04835	0.04943	0.04955	0.04686		
	0.04747						0.04831	2.019
(2)	0.03742	0.03632	0.03631	0.03701	0.03745	0.03167		
	0.03359						0.03568	6.184
(3)	0.03015	0.02974	0.03061	0.03202	0.03286	0.03116		
	0.03104						0.03108	3.468
(4)	0.04803	0.04905	0.04961	0.05267	0.05434	0.05228		
	0.05367						0.05138	4.789
(5)	0.03394	0.02931	0.02794	0.02865	0.02953	0.02903		
	0.03033						0.02982	6.579
(6)	0.01593	0.01631	0.01747	0.01871	0.02054	0.02121		
	0.02277						0.01899	13.702
39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1 / 80.000 Level 7	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
42 Hexachloroethane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlordane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 trans-Nonachlor	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-Nonachlor	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Mirex	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 bis-(2-ethylhexyl) Phthalate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Trifluralin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Dacthal	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Oxadiazon	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Cal Date : 06-Jul-2010 10:56 aron
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
51 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
56 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 2 Tetrachloro-m-xylene	1.25108	1.18380	1.21170	1.19419	1.15544	1.14364		
	1.21438						1.19346	3.081
$ 25 Decachlorobiphenyl	1.20743	0.93768	0.96137	0.90072	0.81990	0.79044		
	0.77756						0.91359	16.224

Report Date: 06-Jul-2010 10:59

Calibration History

Method : /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Start Cal Date: 02-JUL-2010 11:44
End Cal Date : 02-JUL-2010 17:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.25000		
02-JUL-2010 16:15	TOXAPH	0702A018.d
02-JUL-2010 12:05	INDA	0702A006.d
Cal Level: 2 , Cal Amount: 2.50000		
02-JUL-2010 16:36	TOXAPH	0702A019.d
02-JUL-2010 12:25	INDA	0702A007.d
Cal Level: 3 , Cal Amount: 5.00000		
02-JUL-2010 16:57	TOXAPH	0702A020.d
02-JUL-2010 12:46	INDA	0702A008.d
Cal Level: 4 , Cal Amount: 10.00000		
02-JUL-2010 17:18	TOXAPH	0702A021.d
02-JUL-2010 13:07	INDA	0702A009.d
Cal Level: 5 , Cal Amount: 20.00000		
02-JUL-2010 15:54	TOXAPH	0702A017.d
02-JUL-2010 11:44	INDA	0702A005.d
Cal Level: 6 , Cal Amount: 40.00000		
02-JUL-2010 17:38	TOXAPH	0702A022.d
02-JUL-2010 13:28	INDA	0702A010.d
Cal Level: 7 , Cal Amount: 80.00000		
02-JUL-2010 17:59	TOXAPH	0702A023.d
02-JUL-2010 13:49	INDA	0702A011.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Injection Date	Sublist	Calibration File
Ccal Level: 5 , Ccal Amount: 20.0		
02-JUL-2010 15:54	TOXAPH	0702A017.d

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 7/6/2010

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A005.d ARI ID: INDAE
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A005.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m
Injection Date: 02-JUL-2010 11:44
Compound Sublist: INDA
Report Date: 07/06/2010 10:59
Instrument, Inj. Vol.: ecd6.i, 1ul
Matrix: NONE
Operator: ar
Dilution Factor: 1.000

STX-CLP Col RT	Shift	Response	CLP2 Col RT	Shift	Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.784	-0.005	2496854	3.753	-0.006	1542232	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.193	0.001	1128494	5.274	0.000	654236	19.4935	19.6522	0.8	alpha-BHC A B
5.555	0.002	471235	5.662	0.002	274088	19.0929	18.6555	2.3	beta-BHC A B
5.725	0.002	1002925	5.924	0.002	541742	20.0499	20.2762	1.1	delta-BHC A B
5.476	0.000	1003940	5.585	0.000	578415	19.7694	19.7989	0.1	gamma-BHC (Lindane) A B
5.926	0.000	1033779	6.002	0.000	593733	19.2888	19.4232	0.7	Heptachlor A B
6.232	0.000	980589	6.331	0.000	535636	19.0093	19.5067	2.6	Aldrin A B
6.906	-0.001	966419	6.984	0.000	530326	18.4394	18.4205	0.1	Heptachlor epoxide b A B
7.441	0.000	954144	7.530	0.000	479500	18.9506	19.1572	1.1	Endosulfan I A B
7.803	0.000	2015644	7.958	0.001	1086456	39.3839	39.2348	0.4	Dieldrin A B
7.317	0.001	1821973	7.632	0.000	999620	39.4396	39.7623	0.8	4,4'-DDE A B
8.199	0.000	1766823	8.501	0.001	961420	40.6368	39.6942	2.3	Endrin A B
8.617	0.000	1759507	8.940	0.001	985830	38.7522	38.4717	0.7	Endosulfan II A B
8.282	0.001	1622818	8.692	0.004	872205	37.3417	39.0217	4.4	4,4'-DDD A B
10.677	0.000	1704155	10.590	0.001	890602	38.5475	37.2604	3.4	Endosulfan sulfate A B
8.838	0.001	1671192	9.403	0.002	865019	39.1513	38.9713	0.5	4,4'-DDT A B
10.033	0.000	4387072	11.196	0.001	2022336	191.3778	187.8552	1.9	Methoxychlor A B
11.264	0.000	2147527	11.640	0.000	1107504	38.1169	38.4960	1.0	Endrin ketone A B
9.529	-0.001	1525751	9.772	0.001	822536	37.8653	36.5251	3.6	Endrin aldehyde A B
7.065	0.000	976867	7.219	0.000	517816	18.9202	19.0922	0.9	gamma-Chlordane A B
7.240	0.000	953831	7.419	0.000	509052	18.3342	19.0145	3.6	alpha-Chlordane A B
2.521	0.001	1467430	2.519	0.001	881662	18.3564	19.0025	3.5	Hexachlorobutadiene A B
5.042	0.002	939329	5.154	0.003	526450	18.6668	18.8097	0.8	Hexachlorobenzene A B
12.992	-0.001	3575051	13.909	0.000	1636073	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.656	0.002	1442481	4.708	0.004	865025	38.7257	38.8857	0.4	Tetrachloro-m-xylene A B
12.803	-0.001	1465588	13.318	0.000	691840	35.8980	36.4378	1.5	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	96.8	97.2	96.8~	115- 0
Decachlorobiphenyl	89.7	91.1	89.7~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

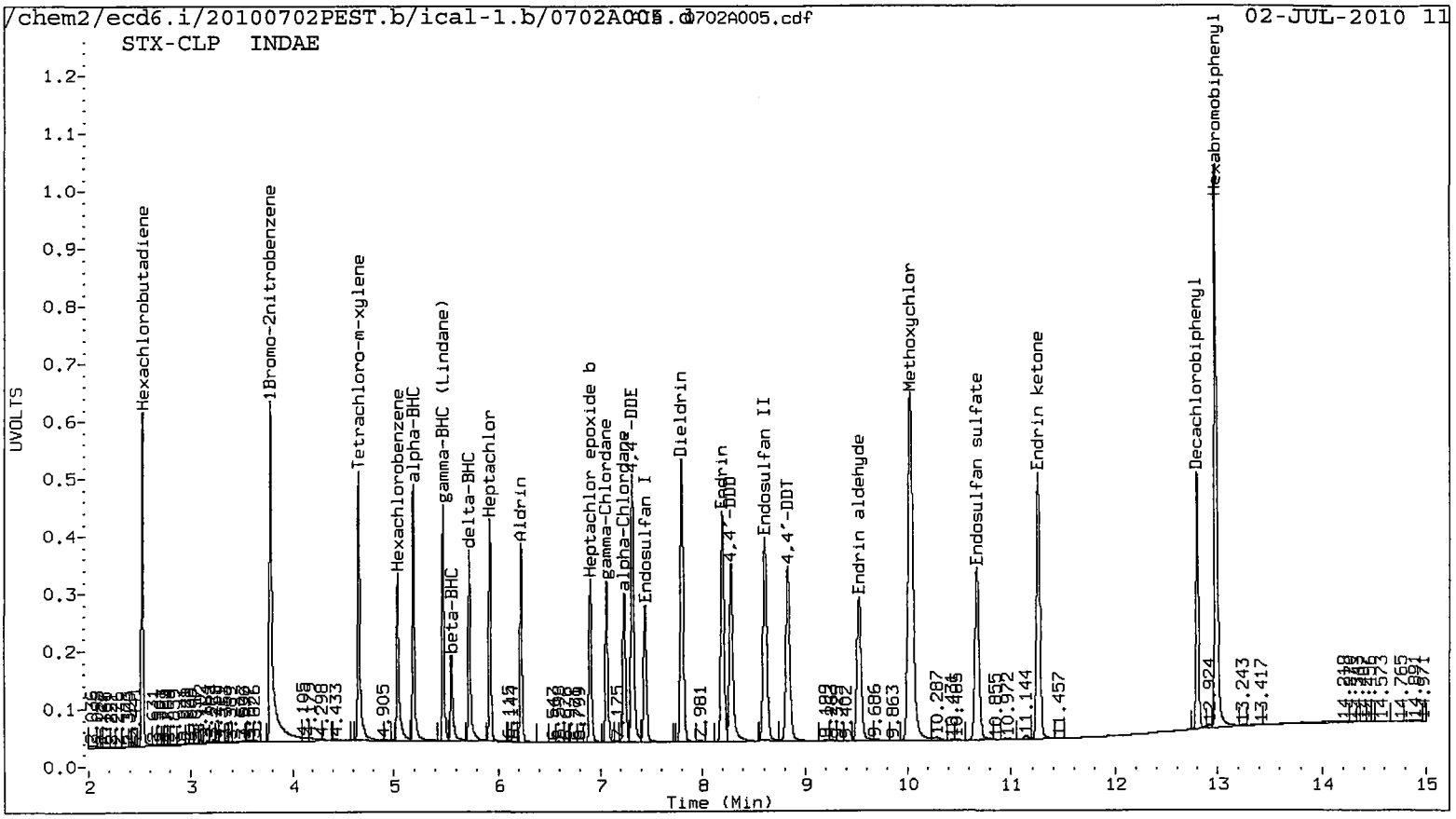
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2496854	-11.5
Hexabromobiphenyl	3321090	3575051	7.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1542232	-16.1
Hexabromobiphenyl	1522181	1636073	7.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount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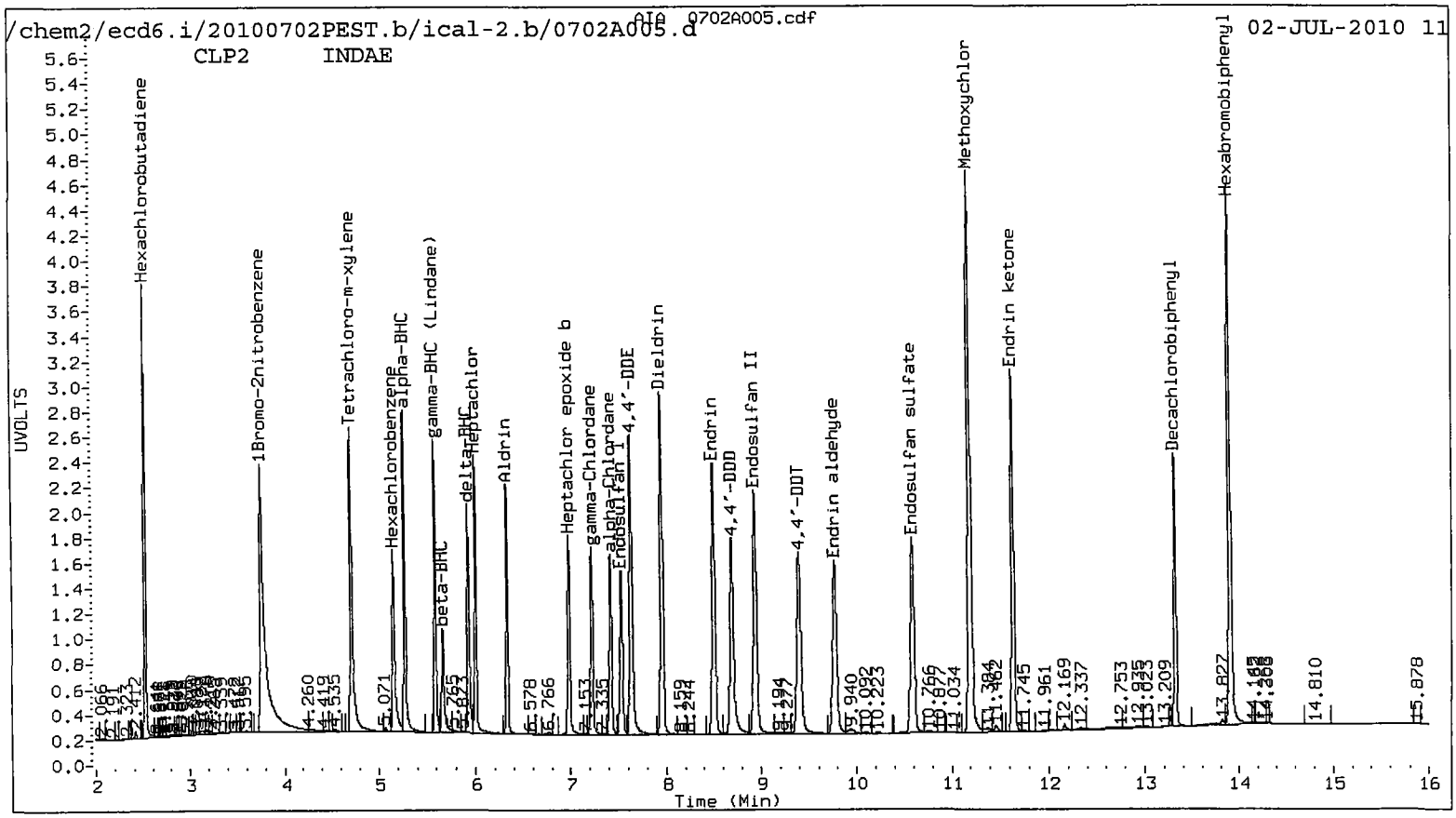
0702A005.cdf
02-JUL-2010 11
STX-CLP INDAE
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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0702A005.cdf
02-JUL-2010 11
CLP2 INDAE
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A006.d ARI ID: INDAA
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A006.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 12:05
Compound Sublist: INDA Report Date: 07/06/2010 10:59
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.785	-0.004	2267079	3.755	-0.005	1420639	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.194	0.002	61402	5.275	0.002	38546	1.1682	1.2570	7.3	alpha-BHC A B
5.560	0.008	29699	5.670	0.010	16450	1.3253	1.2155	8.6	beta-BHC A B
5.729	0.006	54482	5.930	0.007	29382	1.1996	1.1938	0.5	delta-BHC A B
5.477	0.002	56575	5.587	0.002	33423	1.2270	1.2420	1.2	gamma-BHC (Lindane) A B
5.926	0.000	65820	6.002	-0.001	36634	1.3526	1.3010	3.9	Heptachlor A B
6.231	0.000	68383	6.331	0.000	32304	1.4600	1.2771	13.4	Aldrin A B
6.907	0.000	74125	6.984	0.000	55126	1.5577	2.0786	28.7	Heptachlor epoxide b A B
7.441	0.000	62344	7.530	0.000	30484	1.3637	1.3222	3.1	Endosulfan I A B
7.803	0.000	119229	7.958	0.000	66619	2.5657	2.6117	1.8	Dieldrin A B
7.320	0.003	109283	7.636	0.004	58653	2.6054	2.5328	2.8	4,4'-DDE A B
8.199	0.000	104494	8.500	0.000	59427	2.5836	2.6801	3.7	Endrin A B
8.618	0.001	113143	8.942	0.003	63093	2.6788	2.6895	0.4	Endosulfan II A B
8.288	0.007	99867	8.698	0.010	52630	2.4703	2.5720	4.0	4,4'-DDD A B
10.680	0.003	115909	10.592	0.002	65755	2.8185	3.0050	6.4	Endosulfan sulfate A B
8.841	0.004	102060	9.404	0.004	53578	2.5703	2.6367	2.6	4,4'-DDT A B
10.038	0.005	305126	11.199	0.004	147615	14.3088	14.9780	4.6	Methoxychlor A B
11.265	0.001	148464	11.641	0.001	72084	2.8327	2.7369	3.4	Endrin ketone A B
9.531	0.001	105621	9.774	0.004	65446	2.8178	3.1745	11.9	Endrin aldehyde A B
7.065	0.000	66783	7.219	0.000	32523	1.4246	1.3018	9.0	gamma-Chlordane A B
7.240	0.000	70008	7.419	0.000	32902	1.4821	1.3342	10.5	alpha-Chlordane A B
2.521	0.000	108791	2.518	0.000	60249	1.4988	1.4097	6.1	Hexachlorobutadiene A B
5.049	0.010	62688	5.164	0.014	36401	1.3720	1.4119	2.9	Hexachlorobenzene A B
12.993	0.000	3325636	13.909	0.000	1497785	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.662	0.009	88634	4.719	0.014	52478	2.6207	2.5610	2.3	Tetrachloro-m-xylene A B
12.804	0.000	125484	13.319	0.001	54224	3.3041	3.1195	5.7	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	6.6	6.4	6.4~	115- 0
Decachlorobiphenyl	8.3	7.8	7.8~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

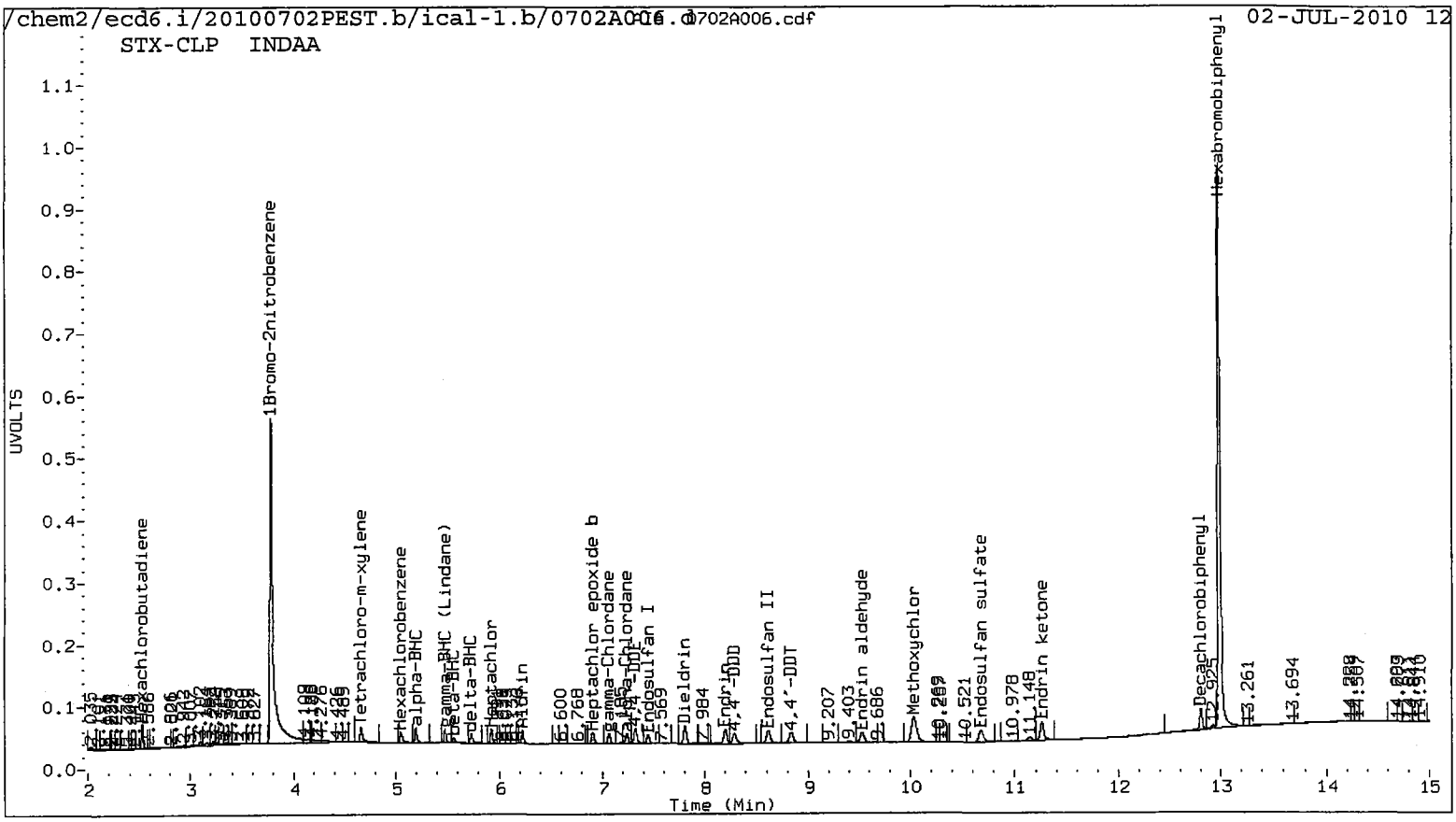
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2267079	-19.6
Hexabromobiphenyl	3321090	3325636	0.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1420639	-22.8
Hexabromobiphenyl	1522181	1497785	-1.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount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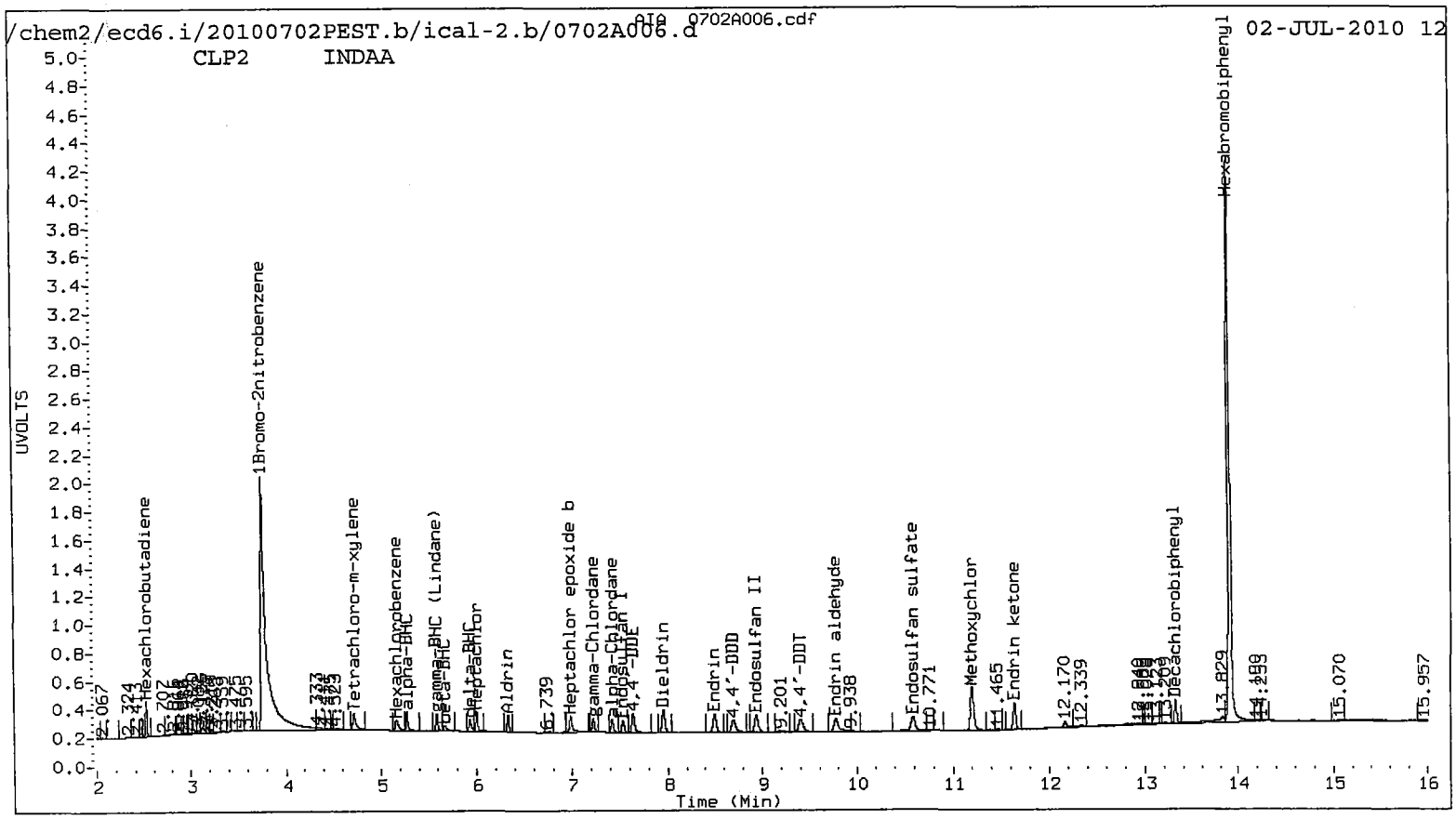
STX-CLP INDAA
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Hexachlorobutadiene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
delta-BHC
Heptachlor epoxide b
gamma-Chlordane
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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02-JUL-2010 12
CLP2 INDAA
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Hexachlorobutadiene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A007.d ARI ID: INDAB
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A007.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 12:25
Compound Sublist: INDA Report Date: 07/06/2010 10:59
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.785	-0.004	2462884	3.755	-0.005	1507299	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.194	0.002	142465	5.276	0.002	79500	2.4949	2.4434	2.1	alpha-BHC A B
5.560	0.007	61441	5.669	0.009	39767	2.5237	2.7694	9.3	beta-BHC A B
5.729	0.006	112614	5.930	0.007	61063	2.2824	2.3384	2.4	delta-BHC A B
5.477	0.002	118525	5.587	0.002	69667	2.3662	2.4399	3.1	gamma-BHC (Lindane) A B
5.926	0.000	127716	6.002	0.000	73902	2.4159	2.4736	2.4	Heptachlor A B
6.232	0.000	118991	6.331	0.000	67770	2.3385	2.5252	7.7	Aldrin A B
6.906	-0.001	131684	6.985	0.001	81316	2.5472	2.8899	12.6	Heptachlor epoxide b A B
7.441	0.000	126285	7.531	0.000	61943	2.5428	2.5321	0.4	Endosulfan I A B
7.803	0.000	244685	7.959	0.001	134781	4.8469	4.9801	2.7	Dieldrin A B
7.320	0.003	219594	7.636	0.004	117846	4.8190	4.7963	0.5	4,4'-DDE A B
8.198	-0.001	211117	8.502	0.001	120060	4.8863	4.9881	2.1	Endrin A B
8.618	0.002	228429	8.942	0.003	130451	5.0627	5.1229	1.2	Endosulfan II A B
8.287	0.006	203507	8.697	0.009	111147	4.7123	5.0039	6.0	4,4'-DDD A B
10.678	0.002	223775	10.592	0.002	125055	5.0936	5.2649	3.3	Endosulfan sulfate A B
8.840	0.004	210185	9.405	0.005	108241	4.9551	4.9072	1.0	4,4'-DDT A B
10.037	0.004	607847	11.199	0.003	286543	26.6832	26.7846	0.4	Methoxychlor A B
11.265	0.002	289725	11.640	0.000	146369	5.1748	5.1197	1.1	Endrin ketone A B
9.532	0.002	208225	9.773	0.003	116212	5.2002	5.1929	0.1	Endrin aldehyde A B
7.065	0.000	127112	7.220	0.001	66348	2.4959	2.5030	0.3	gamma-Chlordane A B
7.240	0.000	132833	7.419	0.000	66779	2.5885	2.5522	1.4	alpha-Chlordane A B
2.520	0.000	205644	2.518	0.000	117444	2.6079	2.5899	0.7	Hexachlorobutadiene A B
5.048	0.009	132115	5.163	0.012	72745	2.6617	2.6594	0.1	Hexachlorobenzene A B
12.993	0.000	3552668	13.910	0.001	1625837	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.661	0.008	182222	4.717	0.012	112505	4.9595	5.1747	4.2	Tetrachloro-m-xylene A B
12.804	0.000	208205	13.318	0.001	99080	5.1319	5.2512	2.3	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	12.4	12.9	12.4~	115- 0
Decachlorobiphenyl	12.8	13.1	12.8~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

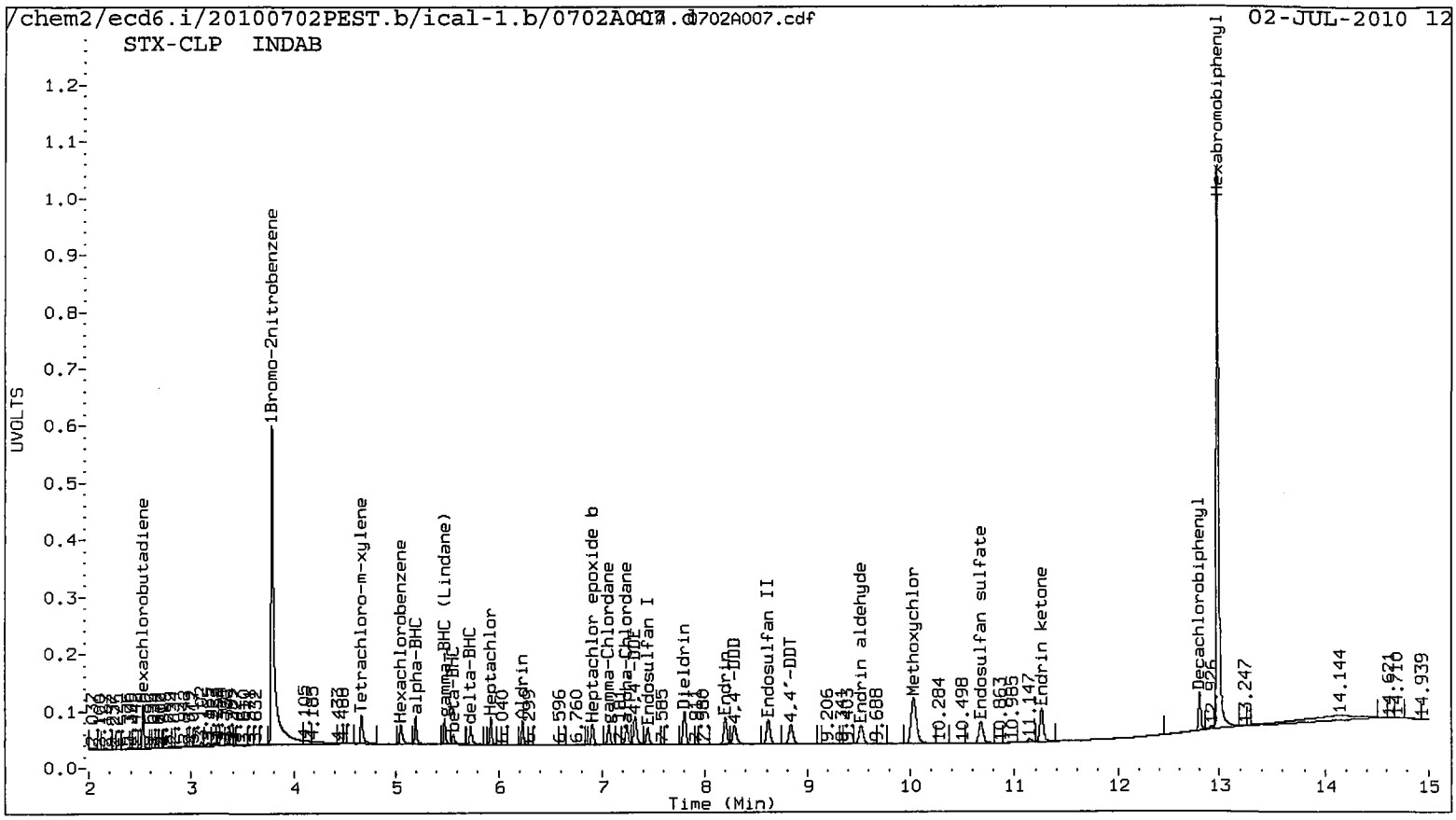
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2462884	-12.7
Hexabromobiphenyl	3321090	3552668	7.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1507299	-18.0
Hexabromobiphenyl	1522181	1625837	6.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount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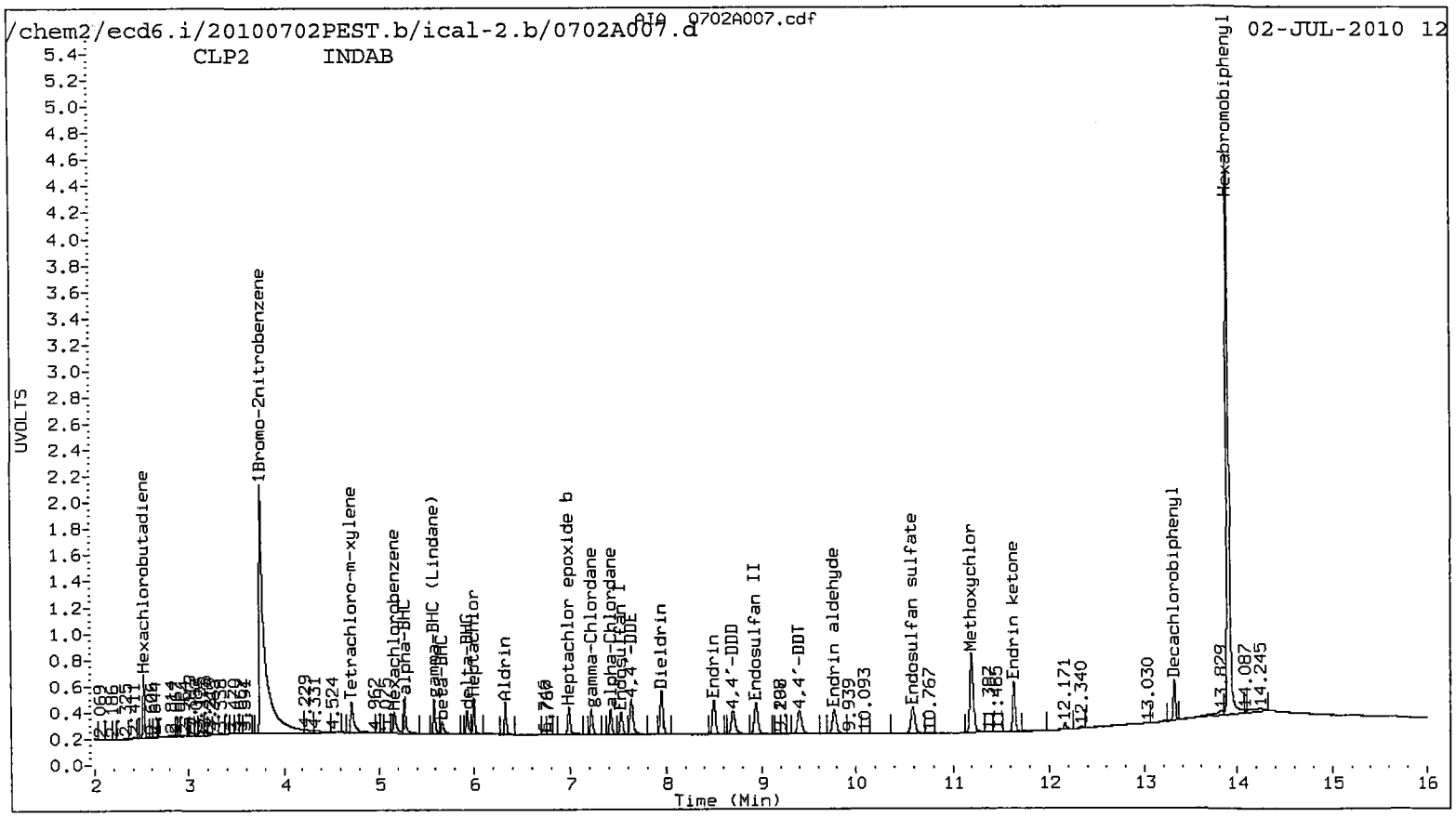
02-JUL-2010 12
STX-CLP INDAB
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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0702A007.cdf
02-JUL-2010 12
CLP2 INDAB
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A008.d ARI ID: INDAC
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A008.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 12:46
Compound Sublist: INDA Report Date: 07/06/2010 10:59
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.785	-0.004	2401101	3.755	-0.004	1525737	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.194	0.001	272088	5.275	0.002	160273	4.8874	4.8664	0.4	alpha-BHC A B
5.558	0.005	122251	5.667	0.007	76819	5.1507	5.2851	2.6	beta-BHC A B
5.728	0.005	228414	5.927	0.005	124468	4.7484	4.7089	0.8	delta-BHC A B
5.477	0.002	238645	5.587	0.002	139464	4.8867	4.8254	1.3	gamma-BHC (Lindane) A B
5.926	0.000	252889	6.002	-0.001	152101	4.9067	5.0296	2.5	Heptachlor A B
6.232	0.000	237250	6.331	0.000	132584	4.7826	4.8806	2.0	Aldrin A B
6.906	-0.001	251758	6.984	0.000	156139	4.9951	5.4820	9.3	Heptachlor epoxide b A B
7.441	0.000	243586	7.530	0.000	124826	5.0309	5.0410	0.2	Endosulfan I A B
7.803	0.000	488014	7.958	0.000	267680	9.9156	9.7711	1.5	Dieldrin A B
7.319	0.002	434275	7.635	0.003	242487	9.7755	9.7498	0.3	4,4'-DDE A B
8.199	0.000	419387	8.501	0.000	239458	9.8572	10.1688	3.1	Endrin A B
8.618	0.001	442261	8.941	0.002	255116	9.9539	10.2401	2.8	Endosulfan II A B
8.285	0.004	399103	8.695	0.007	220220	9.3847	10.1337	7.7	4,4'-DDD A B
10.678	0.001	432379	10.592	0.002	235887	9.9945	10.1506	1.6	Endosulfan sulfate A B
8.840	0.003	409942	9.405	0.004	215436	9.8141	9.9830	1.7	4,4'-DDT A B
10.037	0.004	1167760	11.198	0.002	549272	52.0571	52.4787	0.8	Methoxychlor A B
11.264	0.001	559514	11.640	0.000	287509	10.1484	10.2789	1.3	Endrin ketone A B
9.530	0.000	396656	9.772	0.001	218619	10.0596	9.9851	0.7	Endrin aldehyde A B
7.065	0.000	244102	7.219	0.000	136423	4.9164	5.0844	3.4	gamma-Chlordane A B
7.240	0.000	256257	7.418	-0.001	133568	5.1221	5.0431	1.6	alpha-Chlordane A B
2.521	0.000	385874	2.518	0.000	226891	5.0195	4.9431	1.5	Hexachlorobutadiene A B
5.046	0.007	252123	5.161	0.010	140185	5.2101	5.0629	2.9	Hexachlorobenzene A B
12.992	-0.001	3498425	13.909	0.000	1590658	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.660	0.006	363677	4.715	0.010	222581	10.1528	10.1139	0.4	Tetrachloro-m-xylene A B
12.803	0.000	420409	13.318	0.000	192586	10.5230	10.4327	0.9	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	25.4	25.3	25.3~	115- 0
Decachlorobiphenyl	26.3	26.1	26.1~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

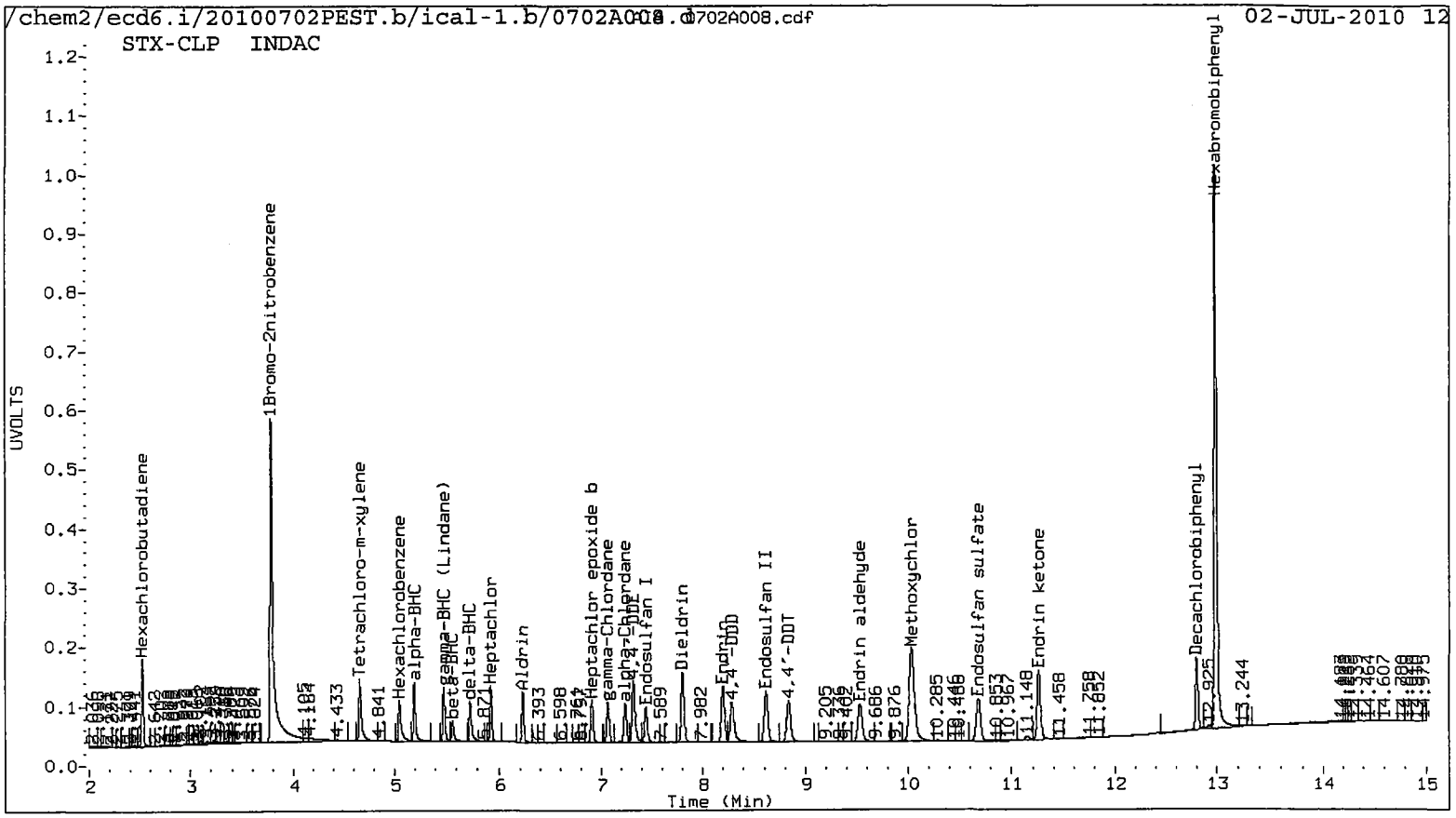
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2401101	-14.9
Hexabromobiphenyl	3321090	3498425	5.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1525737	-17.0
Hexabromobiphenyl	1522181	1590658	4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount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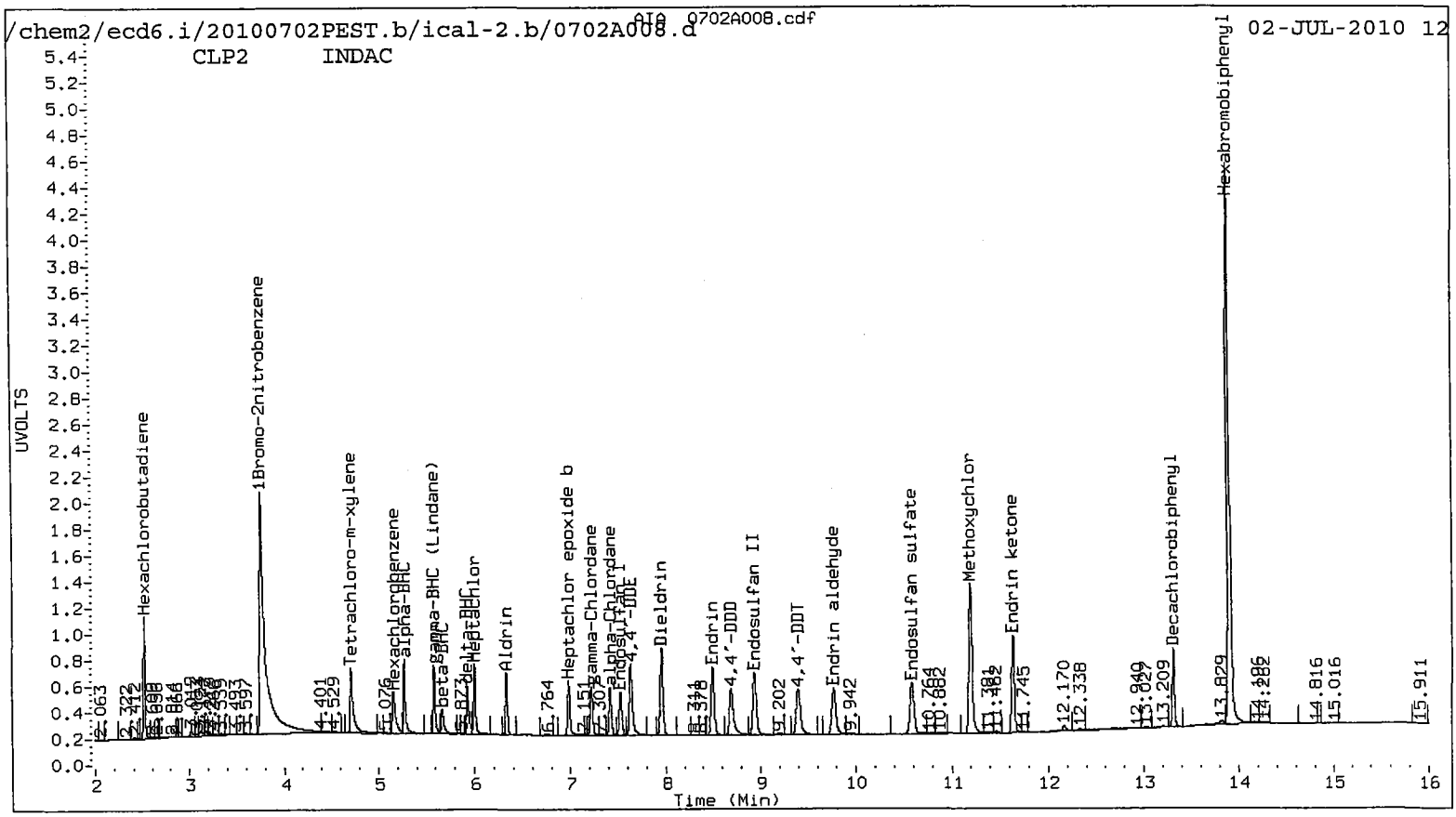
STX-CLP INDAC
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
beta-BHC
gamma-BHC (Lindane)
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
Endosulfan I
Dieldrin
4,4'-DDE
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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02-JUL-2010 12
CLP2 INDAC
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A009.d ARI ID: INDAD
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A009.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 13:07
Compound Sublist: INDA Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.785	-0.004	2442458	3.757	-0.003	1535771	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.194	0.001	562358	5.275	0.002	321772	9.9305	9.7062	2.3	alpha-BHC A B
5.557	0.005	249190	5.666	0.006	152106	10.3212	10.3965	0.7	beta-BHC A B
5.727	0.004	483214	5.928	0.005	254229	9.8753	9.5553	3.3	delta-BHC A B
5.477	0.001	490635	5.587	0.002	281974	9.8766	9.6925	1.9	gamma-BHC (Lindane) A B
5.926	0.000	514309	6.003	0.000	308932	9.8100	10.1488	3.4	Heptachlor A B
6.232	0.000	490323	6.332	0.000	267544	9.7169	9.7844	0.7	Aldrin A B
6.906	-0.001	481857	6.985	0.000	282317	9.3986	9.8473	4.7	Heptachlor epoxide b A B
7.441	0.000	479024	7.531	0.001	246864	9.7260	9.9043	1.8	Endosulfan I A B
7.803	0.001	989983	7.958	0.001	547992	19.7742	19.8727	0.5	Dieldrin A B
7.319	0.003	880766	7.635	0.003	502877	19.4902	20.0873	3.0	4,4'-DDE A B
8.199	0.000	839192	8.501	0.001	469259	19.6792	19.7750	0.5	Endrin A B
8.618	0.001	870028	8.941	0.002	506022	19.5370	20.1557	3.1	Endosulfan II A B
8.285	0.004	799187	8.694	0.006	440567	18.7496	20.1182	7.0	4,4'-DDD A B
10.677	0.000	846974	10.590	0.000	450189	19.5333	19.2242	1.6	Endosulfan sulfate A B
8.840	0.004	817103	9.404	0.004	435536	19.5171	20.0277	2.6	4,4'-DDT A B
10.036	0.003	2254690	11.197	0.002	1046004	100.2818	99.1728	1.1	Methoxychlor A B
11.265	0.002	1101172	11.641	0.001	567072	19.9275	20.1186	1.0	Endrin ketone A B
9.530	0.000	783978	9.773	0.002	431060	19.8372	19.5373	1.5	Endrin aldehyde A B
7.065	0.000	481961	7.220	0.001	268531	9.5427	9.9426	4.1	gamma-Chlordane A B
7.240	0.000	484392	7.419	0.001	263467	9.5182	9.8826	3.8	alpha-Chlordane A B
2.519	-0.002	747837	2.517	-0.001	447042	9.5632	9.6756	1.2	Hexachlorobutadiene A B
5.045	0.005	486251	5.159	0.008	270191	9.8782	9.6944	1.9	Hexachlorobenzene A B
12.993	0.000	3506418	13.910	0.001	1602926	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.658	0.004	729190	4.712	0.008	437972	20.0122	19.7711	1.2	Tetrachloro-m-xylene A B
12.804	0.000	789571	13.319	0.001	365319	19.7182	19.6385	0.4	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	50.0	49.4	49.4~	115- 0
Decachlorobiphenyl	49.3	49.1	49.1~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

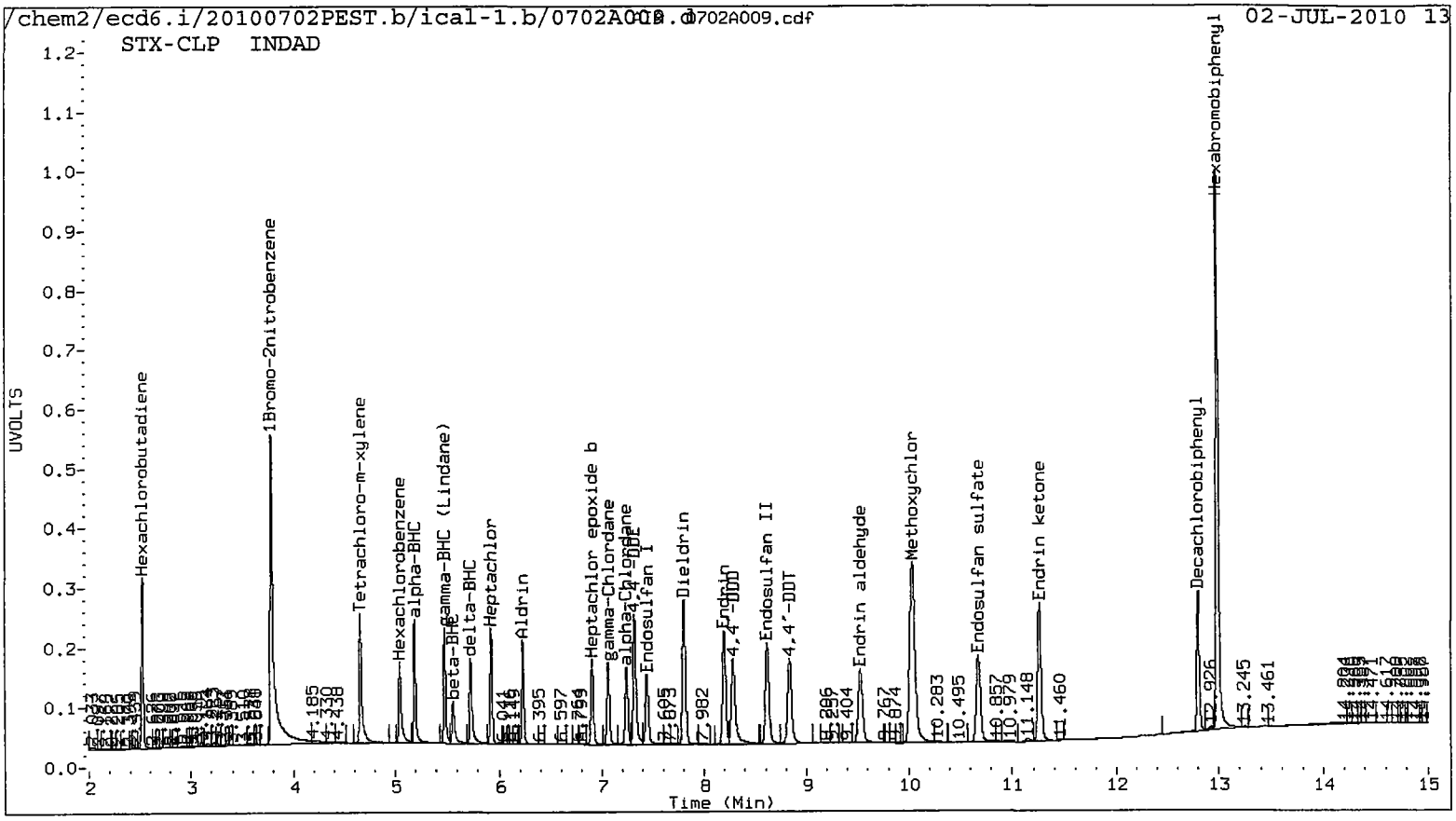
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2442458	-13.4
Hexabromobiphenyl	3321090	3506418	5.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1535771	-16.5
Hexabromobiphenyl	1522181	1602926	5.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount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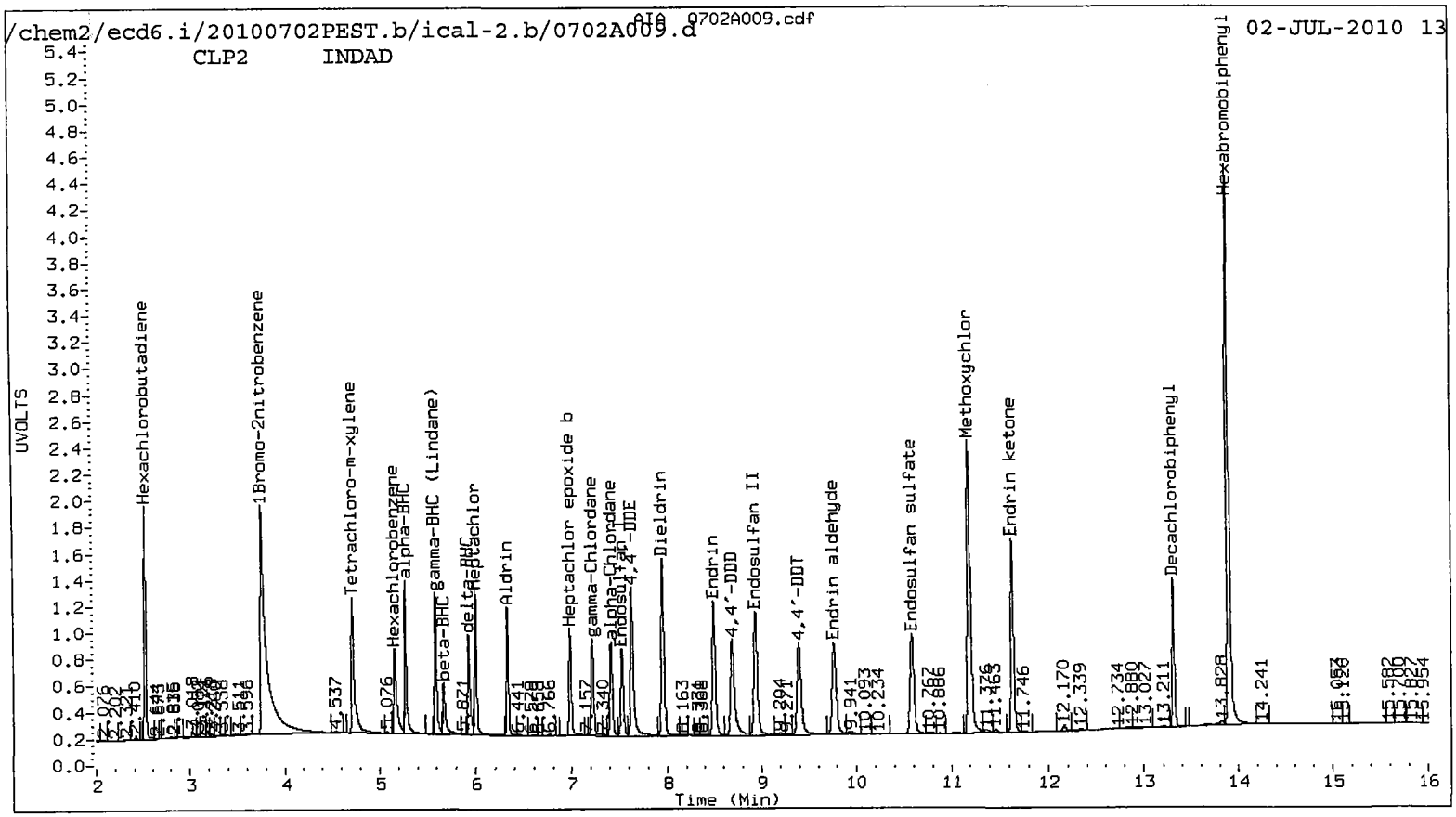
02-JUL-2010 13
STX-CLP INDAD
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
beta-BHC
gamma-BHC (Lindane)
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
Endosulfan I
4,4'-DDE
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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02-JUL-2010 13
CLP2 INDAD
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A010.d ARI ID: INDAF
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A010.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 13:28
Compound Sublist: INDA Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.786	-0.003	2544662	3.758	-0.002	1571351	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.193	0.001	2387197	5.273	0.000	1354950	40.4615	39.9462	1.3	alpha-BHC A B
5.554	0.001	931463	5.661	0.001	547174	37.0308	36.5527	1.3	beta-BHC A B
5.724	0.001	2114944	5.923	0.001	1130422	41.4863	41.5252	0.1	delta-BHC A B
5.476	0.000	2089452	5.585	0.000	1197366	40.3720	40.2258	0.4	gamma-BHC (Lindane) A B
5.926	0.000	2126390	6.003	0.000	1195894	38.9300	38.3972	1.4	Heptachlor A B
6.231	0.000	2033517	6.331	-0.001	1096850	38.6803	39.2047	1.3	Aldrin A B
6.907	0.000	1933216	6.984	0.000	1047819	36.1930	35.7207	1.3	Heptachlor epoxide b A B
7.441	0.000	1946217	7.530	0.000	972432	37.9283	38.1312	0.5	Endosulfan I A B
7.803	0.001	4106368	7.958	0.000	2199138	78.7273	77.9451	1.0	Dieldrin A B
7.317	0.001	3713781	7.632	0.000	2017245	78.8805	78.7539	0.2	4,4'-DDE A B
8.199	0.000	3484624	8.501	0.001	1889941	79.6049	77.2600	3.0	Endrin A B
8.617	0.000	3595817	8.940	0.001	1979584	78.6611	76.4901	2.8	Endosulfan II A B
8.283	0.002	3336781	8.691	0.002	1769447	76.2622	78.3821	2.7	4,4'-DDD A B
10.677	0.000	3398895	10.590	0.000	1776679	76.3629	73.5978	3.7	Endosulfan sulfate A B
8.839	0.002	3451215	9.401	0.000	1762817	80.3061	78.6354	2.1	4,4'-DDT A B
10.033	0.000	8371786	11.196	0.001	3864543	362.7368	355.4351	2.0	Methoxychlor A B
11.264	0.001	4264801	11.640	0.000	2208881	75.1856	76.0211	1.1	Endrin ketone A B
9.530	0.000	3072751	9.771	0.001	1648819	75.7430	72.4940	4.4	Endrin aldehyde A B
7.065	0.000	1995415	7.219	0.000	1059084	37.9217	38.3255	1.1	gamma-Chlordane A B
7.240	0.000	1923637	7.418	0.000	1032550	36.2807	37.8539	4.2	alpha-Chlordane A B
2.521	0.000	2968487	2.518	0.000	1772622	36.4358	37.4973	2.9	Hexachlorobutadiene A B
5.041	0.001	1863735	5.153	0.002	1038710	36.3412	36.4247	0.2	Hexachlorobenzene A B
12.993	0.000	3599361	13.910	0.001	1652382	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.655	0.001	2910184	4.706	0.002	1728773	76.6606	76.2739	0.5	Tetrachloro-m-xylene A B
12.804	0.000	2845062	13.318	0.000	1364223	69.2161	71.1418	2.7	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	191.7	190.7	190.7~	115- 0
Decachlorobiphenyl	173.0	177.9	173.0~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

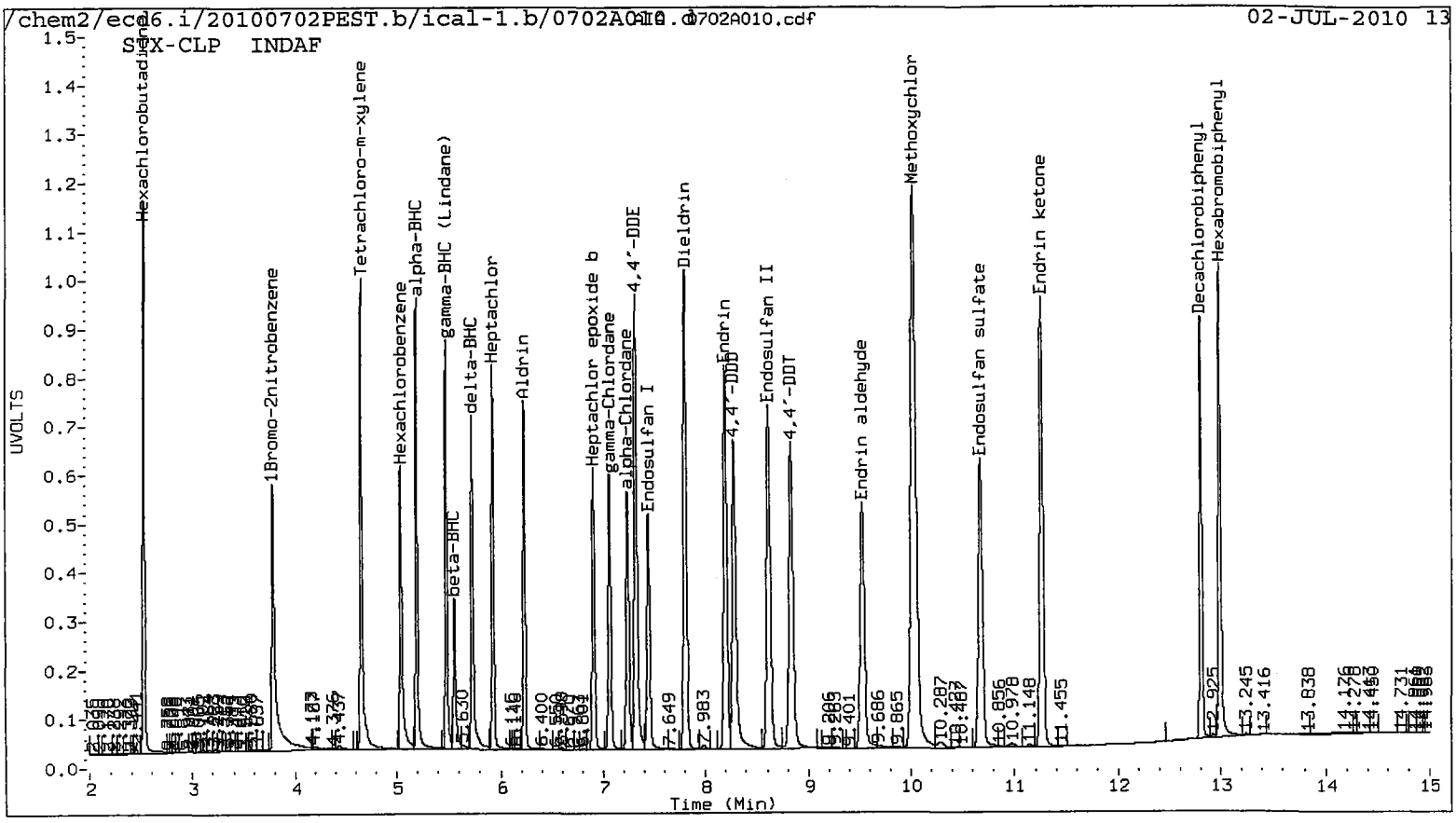
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2544662	-9.8
Hexabromobiphenyl	3321090	3599361	8.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1571351	-14.6
Hexabromobiphenyl	1522181	1652382	8.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount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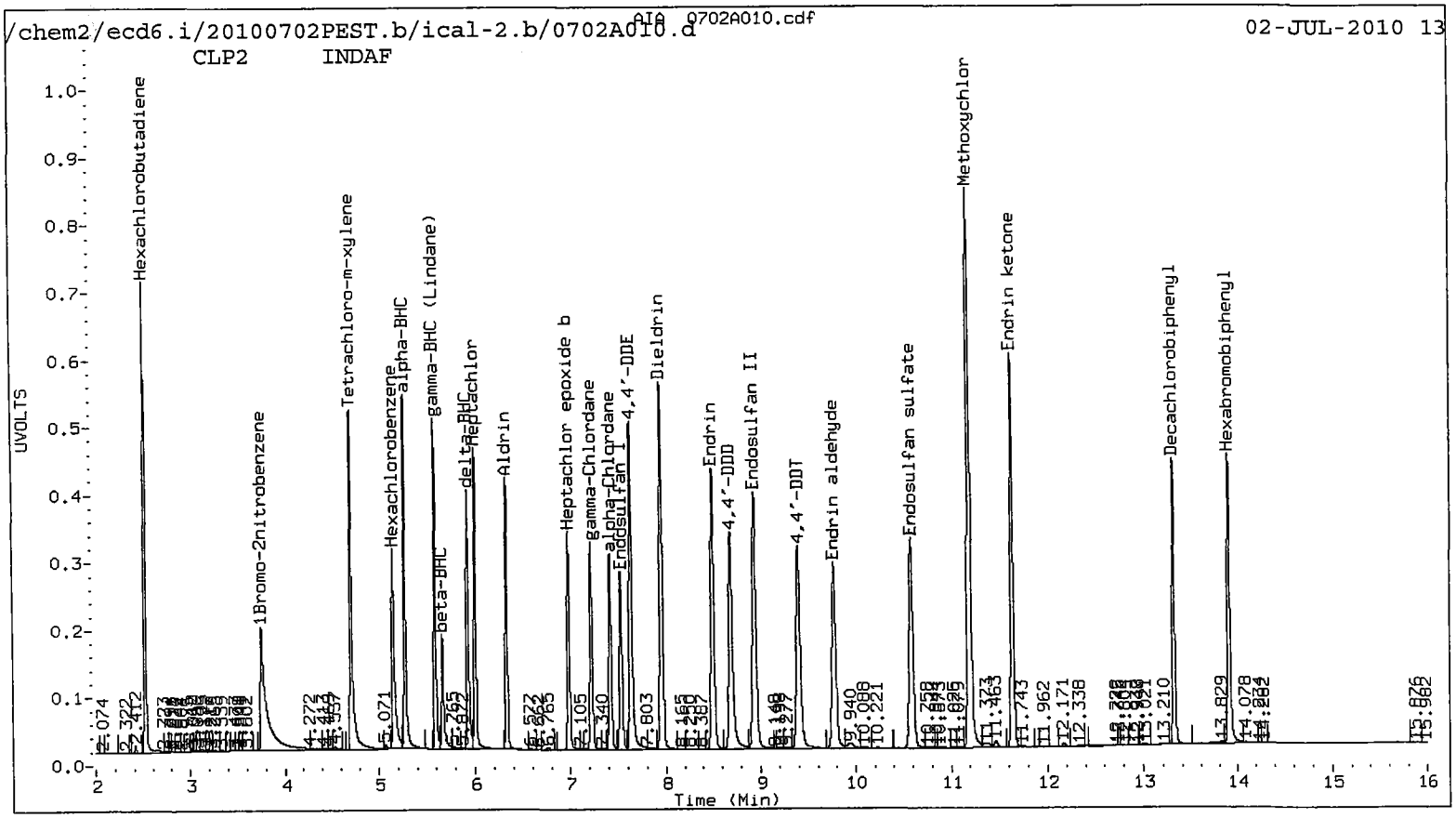
02-JUL-2010 13
SPX-CLP INDAF
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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AIA 0702A010.cdf
02-JUL-2010 13
CLP2 INDAF
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A011.d ARI ID: INDAG
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A011.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 13:49
Compound Sublist: INDA Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.786	-0.003	2224485	3.760	0.000	1380177	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.192	0.000	4583175	5.273	0.000	2602492	88.8629	87.3535	1.7	alpha-BHC A B
5.553	0.000	1737314	5.660	0.000	1027205	79.0090	78.1250	1.1	beta-BHC A B
5.723	0.000	4101911	5.922	0.000	2219515	92.0435	92.8255	0.8	delta-BHC A B
5.475	0.000	4014587	5.585	0.000	2301841	88.7339	88.0423	0.8	gamma-BHC (Lindane) A B
5.926	0.000	4016809	6.003	0.000	2227553	84.1246	81.4278	3.3	Heptachlor A B
6.232	0.000	3863754	6.331	0.000	2080280	84.0721	84.6547	0.7	Aldrin A B
6.907	0.000	3620822	6.984	0.000	1955783	77.5446	75.9090	2.1	Heptachlor epoxide b A B
7.441	0.000	3650906	7.530	0.000	1827165	81.3905	81.5712	0.2	Endosulfan I A B
7.803	0.000	7699403	7.958	0.000	4097307	168.8594	165.3381	2.1	Dieldrin A B
7.317	0.000	7046056	7.632	0.000	3851038	171.1985	171.1709	0.0	4,4'-DDE A B
8.199	0.000	6571145	8.500	0.000	3521410	161.3840	154.6561	4.3	Endrin A B
8.617	0.000	6746373	8.939	0.000	3661247	158.6603	151.9864	4.3	Endosulfan II A B
8.281	0.000	6381474	8.688	0.000	3347894	156.7972	159.3292	1.6	4,4'-DDD A B
10.677	0.000	6356328	10.590	0.000	3297707	153.5276	146.7615	4.5	Endosulfan sulfate A B
8.837	0.000	6658174	9.400	0.000	3361849	166.5588	161.1141	3.3	4,4'-DDT A B
10.033	0.000	15118164	11.195	0.000	6972568	704.2200	688.9682	2.2	Methoxychlor A B
11.263	0.000	7834082	11.640	0.000	4045170	148.4772	149.5695	0.7	Endrin ketone A B
9.530	0.000	5684981	9.771	0.000	3038183	150.6537	143.5116	4.9	Endrin aldehyde A B
7.065	0.000	3791733	7.219	0.000	2006787	82.4314	82.6794	0.3	gamma-Chlordane A B
7.240	0.000	3630116	7.419	0.000	1950862	78.3202	81.4263	3.9	alpha-Chlordane A B
2.521	0.000	5520173	2.518	0.000	3296983	77.5079	79.4035	2.4	Hexachlorobutadiene A B
5.040	0.000	3464566	5.151	0.000	1950905	77.2796	77.8891	0.8	Hexachlorobenzene A B
12.992	-0.001	3348032	13.909	0.000	1538035	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.653	0.000	5402745	4.704	0.000	3233528	162.8047	162.4252	0.2	Tetrachloro-m-xylene A
12.804	0.000	5206617	13.318	0.000	2503229	136.1780	140.2439	2.9	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	407.0	406.1	406.1~	115- 0
Decachlorobiphenyl	340.4	350.6	340.4~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

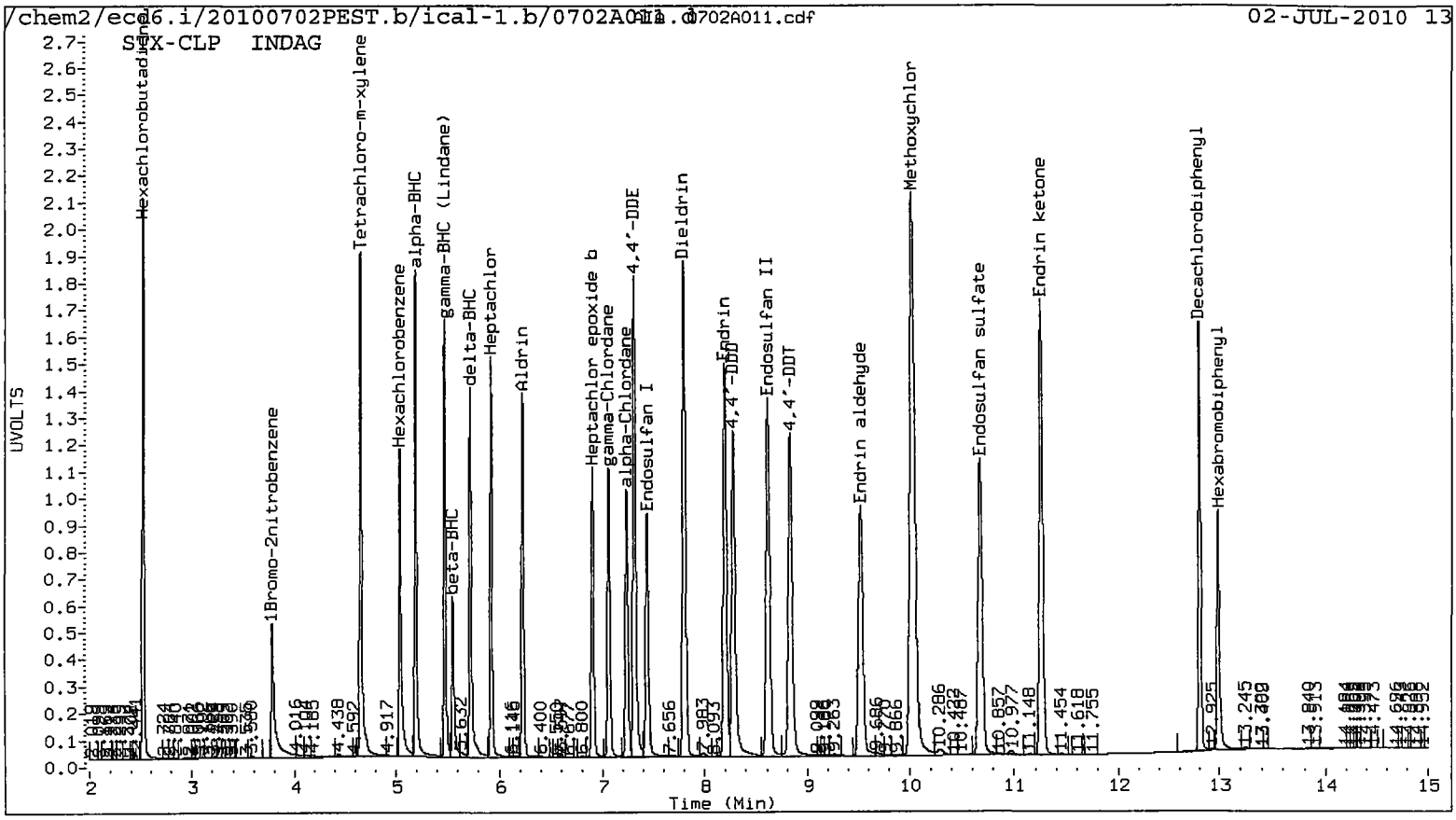
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2224485	-21.1
Hexabromobiphenyl	3321090	3348032	0.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1380177	-25.0
Hexabromobiphenyl	1522181	1538035	1.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount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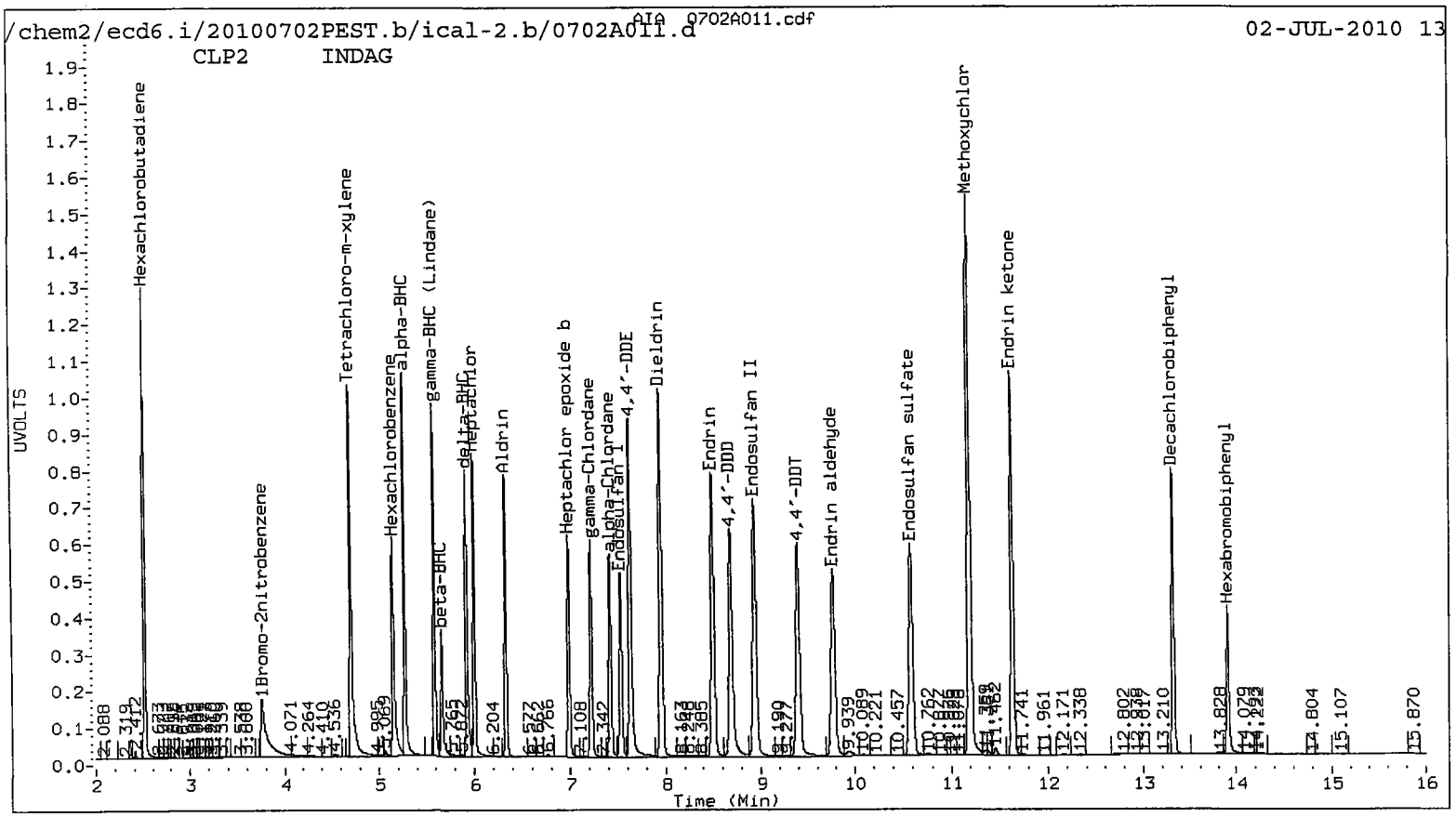
02-JUL-2010 13
STX-CLP INDAG
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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02-JUL-2010 13
CLP2 INDAG
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A012.d ARI ID: INDA ICV
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A012.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 14:10
Compound Sublist: INDA Report Date: 07/06/2010 11:01
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.787	-0.002	2277652	3.762	0.002	1472460	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.193	0.001	1054409	5.275	0.002	603230	19.9666	18.9786	5.1	alpha-BHC A B
5.556	0.003	469611	5.664	0.005	287978	20.8583	20.5297	1.6	beta-BHC A B
5.726	0.003	957576	5.926	0.004	510148	20.9857	19.9985	4.8	delta-BHC A B
5.476	0.001	948743	5.586	0.001	552922	20.4805	19.8231	3.3	gamma-BHC (Lindane) A B
5.926	0.000	1002215	6.002	-0.001	590536	20.4996	20.2340	1.3	Heptachlor A B
6.232	0.000	951499	6.331	0.000	525250	20.2206	20.0349	0.9	Aldrin A B
6.906	-0.001	919748	6.984	0.000	513348	19.2378	18.6757	3.0	Heptachlor epoxide b A B
7.441	-0.001	899037	7.530	0.000	468970	19.5746	19.6244	0.3	Endosulfan I A B
7.803	0.000	924778	7.958	0.000	519323	19.8083	19.6428	0.8	Dieldrin A B
7.319	0.003	803548	7.635	0.003	467092	19.0681	19.4601	2.0	4,4'-DDE A B
8.198	-0.001	776816	8.501	0.000	435884	19.8175	19.5335	1.4	Endrin A B
8.617	0.001	835186	8.941	0.002	482537	20.4030	20.4392	0.2	Endosulfan II A B
8.286	0.005	751643	8.695	0.007	417988	19.1841	20.2976	5.6	4,4'-DDD A B
10.679	0.002	806638	10.590	0.000	437418	20.2381	19.8635	1.9	Endosulfan sulfate A B
8.840	0.003	755899	9.403	0.003	405719	19.6421	19.8399	1.0	4,4'-DDT A B
10.038	0.005	454056	11.199	0.004	221548	21.9700	22.3374	1.7	Methoxychlor A B
11.263	0.000	1002716	11.640	0.000	528105	19.7406	19.9244	0.9	Endrin ketone A B
9.530	0.000	719641	9.773	0.002	400413	19.8097	19.2992	2.6	Endrin aldehyde A B
7.065	0.000	931494	7.219	0.000	511450	19.7778	19.7511	0.1	gamma-Chlordane A B
7.240	0.000	913025	7.419	0.000	498392	19.2388	19.4985	1.3	alpha-Chlordane A B
2.486	-0.035	1184	2.522	0.004	1665	0.0162	0.0376	79.3*	Hexachlorobutadiene A B
5.049	0.009	17130	----			0.3732	0.0000	---	Hexachlorobenzene
12.993	0.000	3223132	13.910	0.000	1507330	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.657	0.003	1377301	4.711	0.006	833690	40.5344	39.2530	3.2	Tetrachloro-m-xylene A B
12.804	0.000	1399374	13.318	0.001	673233	38.0186	38.4864	1.2	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	101.3	98.1	98.1~	115- 0
Decachlorobiphenyl	95.0	96.2	95.0~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

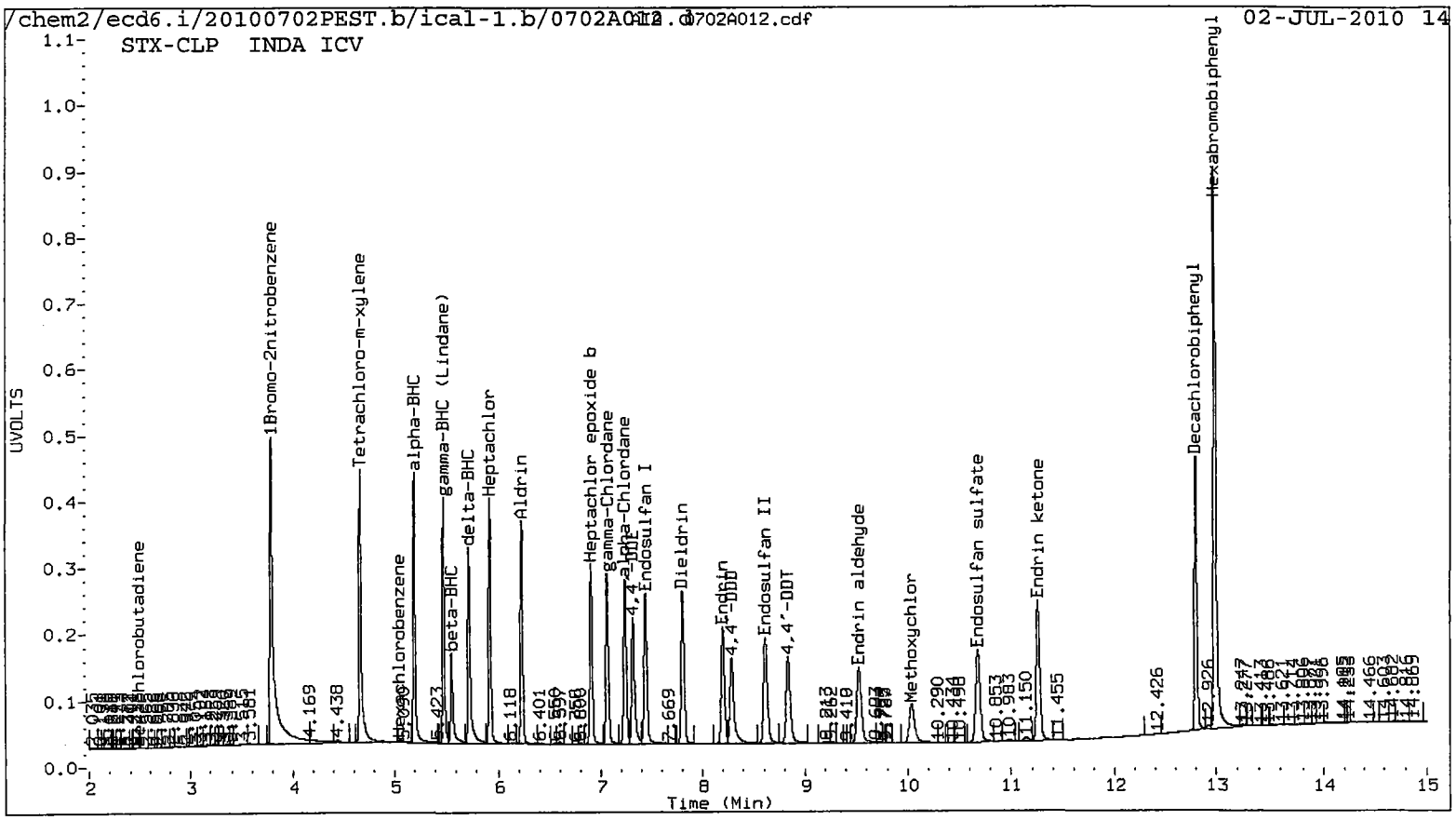
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2277652	-19.2
Hexabromobiphenyl	3321090	3223132	-2.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1472460	-19.9
Hexabromobiphenyl	1522181	1507330	-1.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount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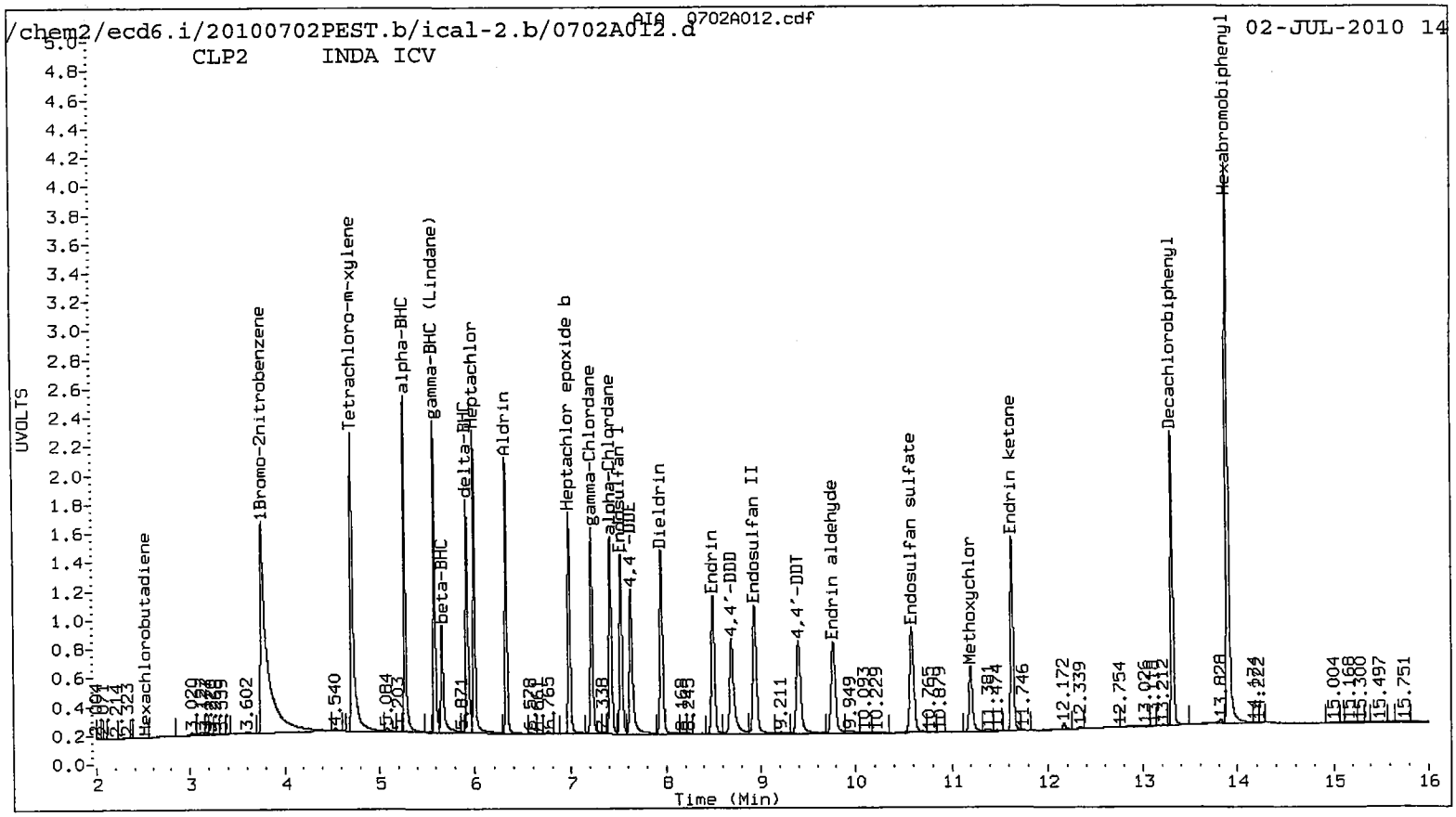
AIA 0702A012.cdf
02-JUL-2010 14
STX-CLP INDA ICV
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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AIA 0702A012.cdf
02-JUL-2010 14
CLP2 INDA ICV
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A013.d ARI ID: HCB/HCBD ICV
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A013.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 14:31
Compound Sublist: INDA Report Date: 07/06/2010 11:01
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col RT	Shift	Response	CLP2 Col RT	Shift	Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.787	-0.002	2263611	3.761	0.002	1482179	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
----			----			0.0000	0.0000	---	alpha-BHC
5.565	0.012	4622	----			0.2066	0.0000	---	beta-BHC
5.737	0.014	2785	----			0.0614	0.0000	---	delta-BHC
----			----			0.0000	0.0000	---	gamma-BHC (Lindane)
----			----			0.0000	0.0000	---	Heptachlor
----			----			0.0000	0.0000	---	Aldrin
6.922	0.015	5636	6.982	-0.002	1930	0.1186	0.0698	51.9*	Heptachlor epoxide b A B
----			----			0.0000	0.0000	---	Endosulfan I
----			----			0.0000	0.0000	---	Dieldrin
----			----			0.0000	0.0000	---	4,4'-DDE
8.183	-0.016	1944	----			0.0489	0.0000	---	Endrin
8.661	0.045	1668	----			0.0402	0.0000	---	Endosulfan II
8.330	0.049	1620	----			0.0408	0.0000	---	4,4'-DDD
10.685	0.009	5246	10.596	0.006	2470	0.1299	0.1094	17.1	Endosulfan sulfate A B
8.837	0.000	3288	----			0.0843	0.0000	---	4,4'-DDT
10.035	0.002	2215	----			0.1058	0.0000	---	Methoxychlor
11.244	-0.019	1811	----			0.0352	0.0000	---	Endrin ketone
9.532	0.002	4513	9.776	0.005	1518	0.1226	0.0714	52.8*	Endrin aldehyde A B
7.077	0.012	2107	----			0.0450	0.0000	---	gamma-Chlordane
7.213	-0.027	16485	----			0.3495	0.0000	---	alpha-Chlordane
2.520	0.000	3086885	2.518	0.000	1886815	42.5933	42.3142	0.7	Hexachlorobutadiene A B
5.042	0.002	1709586	5.154	0.003	996472	37.4744	37.0459	1.2	Hexachlorobenzene A B
12.993	0.000	3266442	13.910	0.000	1544898	80.0000	80.0000	0.0	Hexabromobiphenyl A B
----			----			0.0000	0.0000	---	Tetrachloro-m-xylene
----			13.319	0.001	3107	0.0000	0.1733	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	0.0	0.0	0.0~	115- 0
Decachlorobiphenyl	0.0	0.4	0.0~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

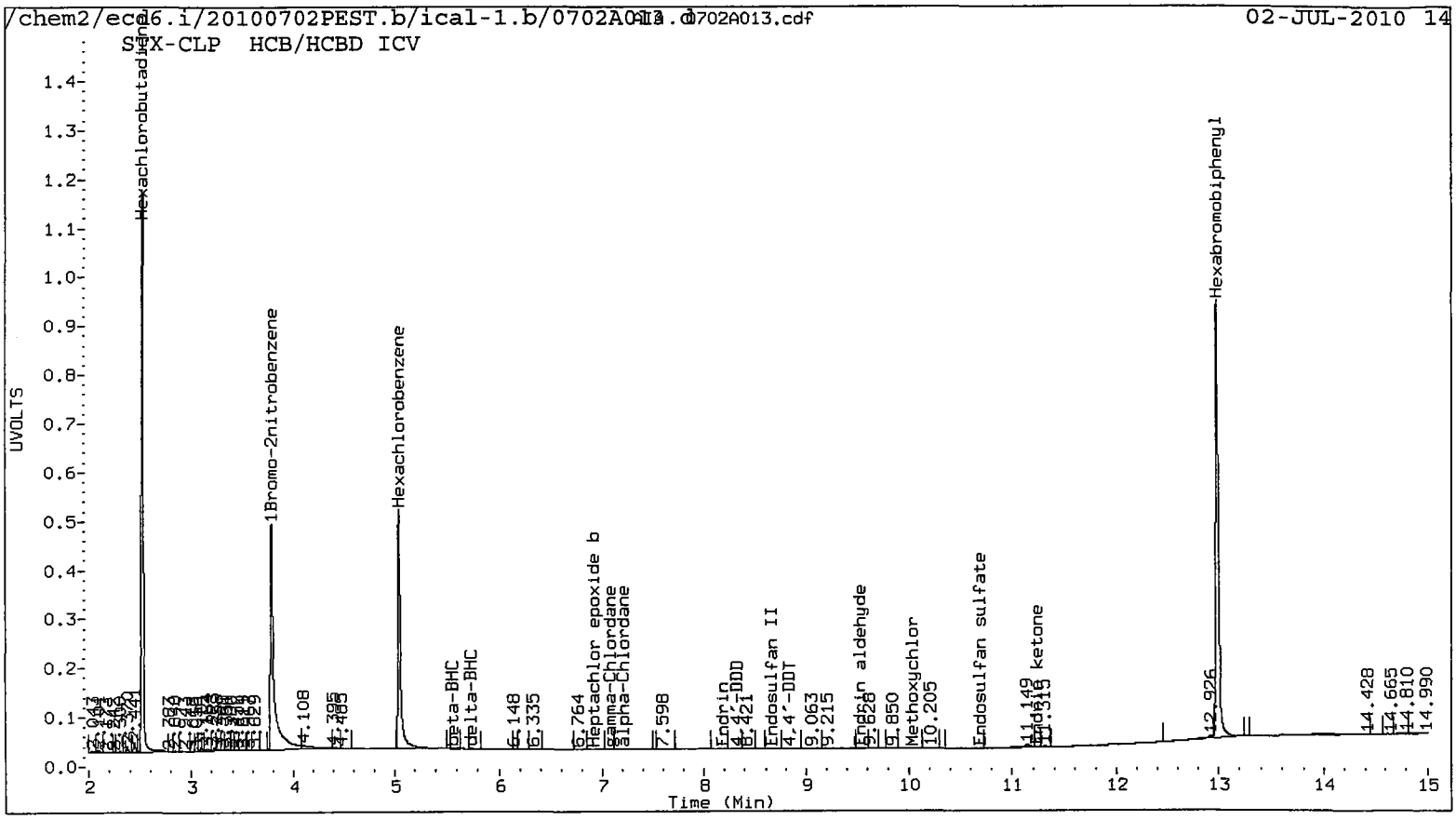
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2263611	-19.7
Hexabromobiphenyl	3321090	3266442	-1.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1482179	-19.4
Hexabromobiphenyl	1522181	1544898	1.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount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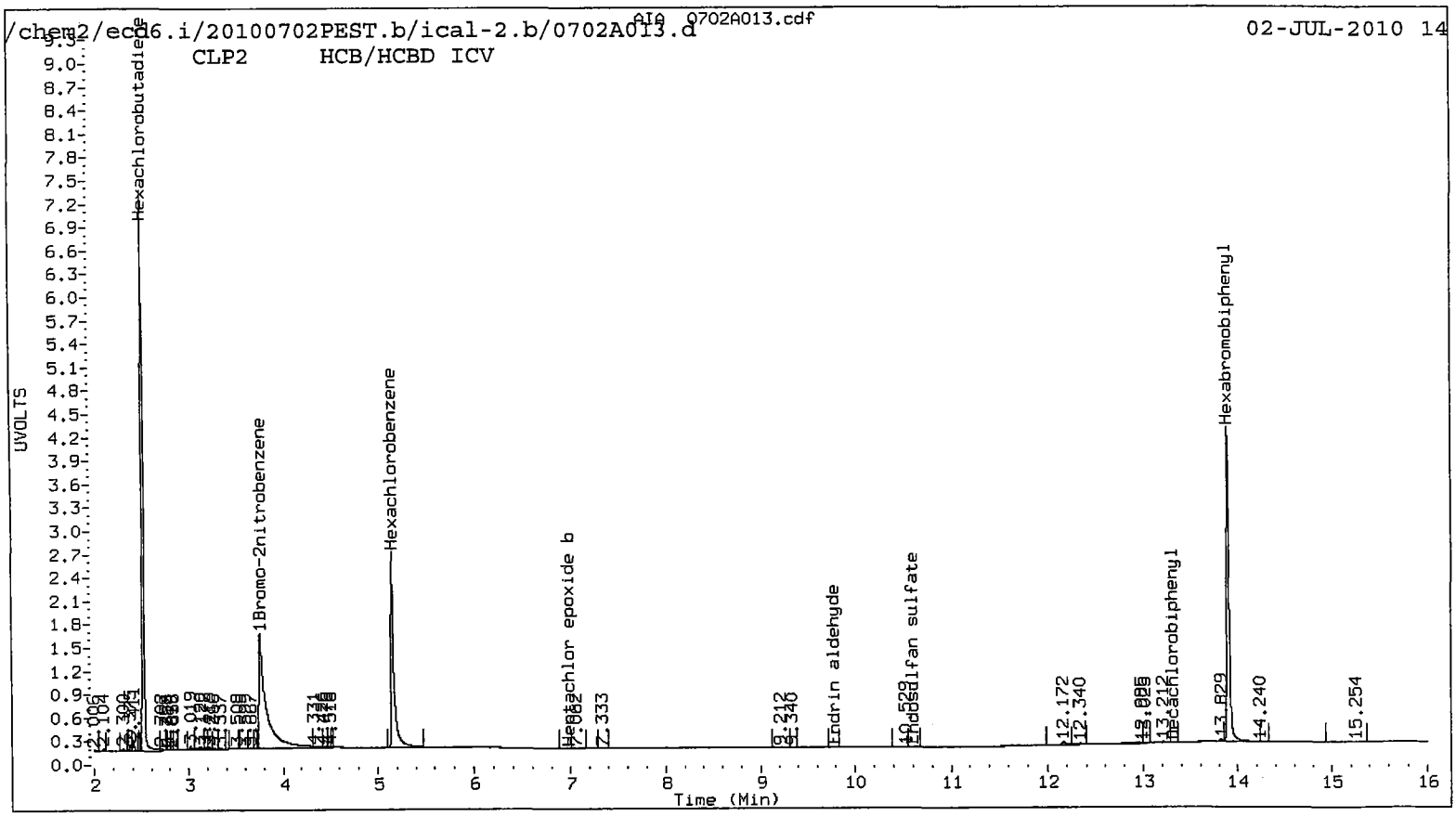
AIA 0702A013.cdf
02-JUL-2010 14
SMX-CLP HCB/HCBD ICV
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Hexachlorobenzene
beta-BHC
delta-BHC
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Hexabromobiphenyl
4.108
6.764
7.598
9.063
10.205
12.926
14.428
14.665
14.810
14.990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AIA 0702A013.cdf
02-JUL-2010 14
CLP2 HCB/HCBD ICV
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Hexachlorobenzene
Heptachlor epoxide b
Endrin aldehyde
Endosulfan sulfate
Hexachlorobiphenyl
Hexabromobiphenyl
12.172
12.340
14.240
15.254

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A015.d ARI ID: TECHLOR
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A015.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 15:12
Compound Sublist: pest Report Date: 07/06/2010 11:01
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col RT	Shift	Response	CLP2 Col RT	Shift	Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.788	-0.001	2367601	3.763	0.003	1488021	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
----			5.240	-0.033	17681	0.0000	0.5505	---	alpha-BHC
5.530	-0.022	8906	5.707	0.048	12262	0.3806	0.8650	77.8*	beta-BHC A B
5.747	0.024	8959	----			0.1889	0.0000	---	delta-BHC
5.449	-0.026	6662	5.610	0.025	5771	0.1384	0.2047	38.7	gamma-BHC (Lindane) A B
5.926	0.001	417229	6.003	0.000	243648	8.2099	8.2610	0.6	Heptachlor A B
6.195	-0.037	7836	6.345	0.013	2465	0.1602	0.0930	53.0*	Aldrin A B
6.909	0.002	156498	7.016	0.032	18535	3.1490	0.6673	130.1*	Heptachlor epoxide b A B
7.465	0.023	32613	7.540	0.009	10102	0.6831	0.4183	48.1*	Endosulfan I A B
7.832	0.030	42809	7.951	-0.006	46639	0.8821	1.7456	65.7*	Dieldrin A B
7.359	0.042	64488	7.630	-0.002	44885	1.4722	1.8505	22.8	4,4'-DDE A B
----			8.479	-0.022	20748	0.0000	0.9021	---	Endrin
8.615	-0.002	26209	----			0.6303	0.0000	---	Endosulfan II
8.246	-0.035	256537	----			6.4452	0.0000	---	4,4'-DDD
10.668	-0.009	20465	----			0.5054	0.0000	---	Endosulfan sulfate
----			9.439	0.038	6805	0.0000	0.3228	---	4,4'-DDT
10.051	0.019	4220	11.220	0.025	2852	0.2010	0.2790	32.5	Methoxychlor A B
11.243	-0.021	4999	11.604	-0.036	7058	0.0969	0.2583	90.9*	Endrin ketone A B
----			9.760	-0.011	51679	0.0000	2.4166	---	Endrin aldehyde
7.066	0.001	1213284	7.220	0.001	594829	24.7821	22.7308	8.6	gamma-Chlordane A B
7.238	-0.002	1006756	7.419	0.000	536295	20.4079	20.7619	1.7	alpha-Chlordane A B
2.522	0.002	2827	----			0.0373	0.0000	---	Hexachlorobutadiene
5.050	0.010	8592	----			0.1801	0.0000	---	Hexachlorobenzene
12.994	0.001	3274302	13.911	0.002	1553650	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.660	0.006	701897	4.716	0.011	494258	19.8722	23.0280	14.7	Tetrachloro-m-xylene A B
12.804	0.001	781089	13.319	0.001	386212	20.8892	21.4201	2.5	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	49.7	57.6	49.7~	130- 0
Decachlorobiphenyl	52.2	53.6	52.2~	130- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2367601	-16.0
Hexabromobiphenyl	3321090	3274302	-1.4

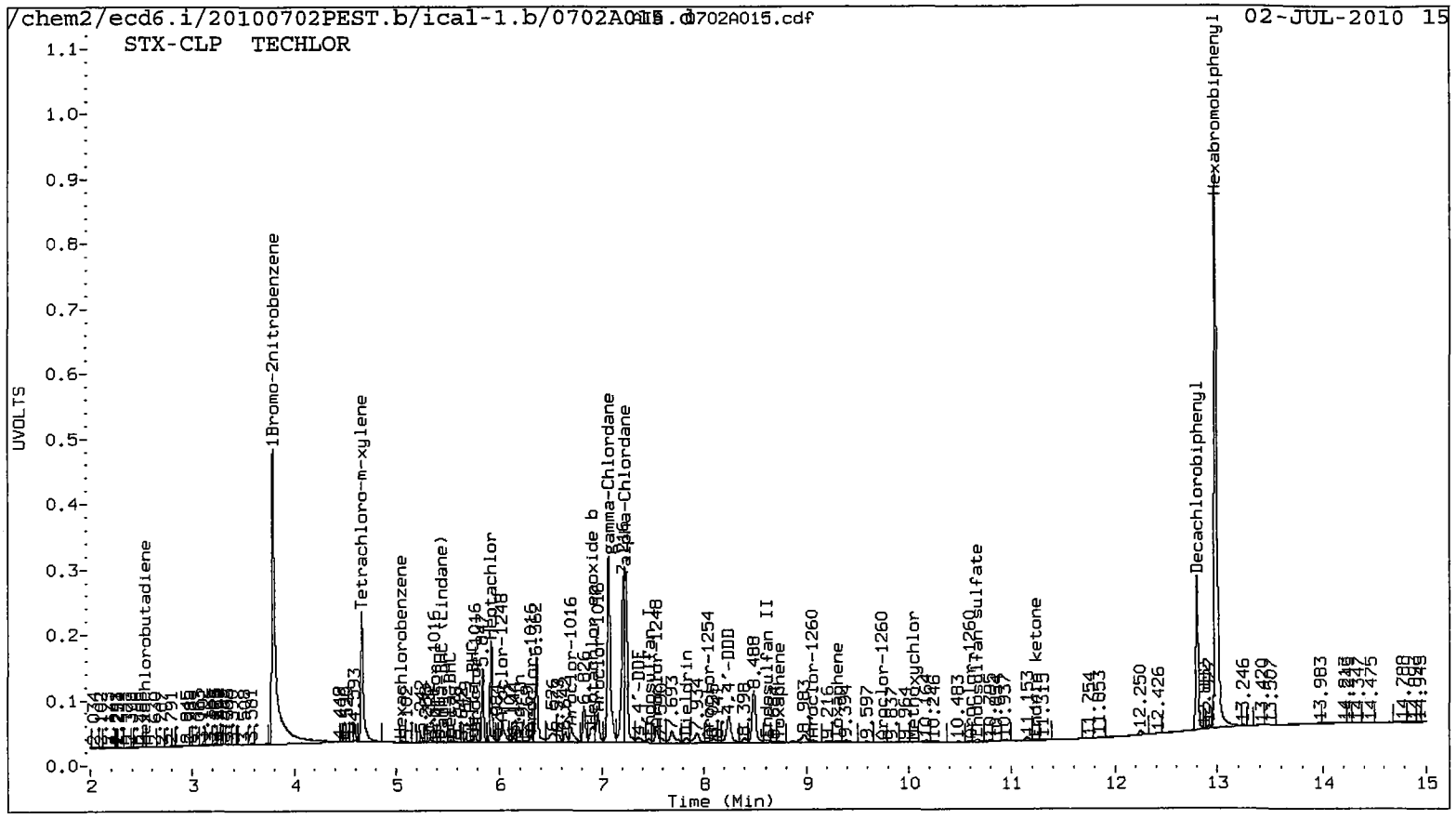
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1488021	-19.1
Hexabromobiphenyl	1522181	1553650	2.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	8.736	0.008	12883	6.515	1	8.426	0.042	23402	29.630	
Toxaphene	2	9.311	-0.006	13047	8.934	2	---			0.000	
Toxaphene	3	---			0.000	3	9.760	0.013	51679	38.119	
Toxaphene	4	---			0.000	4	11.074	0.016	5874	5.389	
Toxaphene	5	11.243	0.017	4999	4.096	5	11.820	0.041	8647	16.380	
Toxaphene	6	---			0.000	NS	---			----	
Total STX-CLPAve (3 peaks): 6.515						Total CLP2Ave (4 peaks): 22.380				RPD = 110*	
Corrected Ave (3 peaks): 6.515						Corrected Ave (3 peaks): 17.133				RPD = 90*	
Aroclor-1016	1	---			0.000	1	---			0.000	
Aroclor-1016	2	---			0.000	2	---			0.000	
Aroclor-1016	3	---			0.000	3	---			0.000	
Aroclor-1016	4	---			0.000	4	---			0.000	
Aroclor-1016	5	---			0.000	5	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1221	1	---			0.000	1	---			0.000	
Aroclor-1221	2	---			0.000	2	---			0.000	
Aroclor-1221	3	---			0.000	3	---			0.000	
Aroclor-1221	4	---			0.000	4	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1232	1	---			0.000	1	---			0.000	
Aroclor-1232	2	---			0.000	2	---			0.000	
Aroclor-1232	3	---			0.000	3	---			0.000	
Aroclor-1232	4	---			0.000	4	---			0.000	
Aroclor-1232	5	---			0.000	5	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1242	1	---			0.000	1	---			0.000	
Aroclor-1242	2	---			0.000	2	---			0.000	
Aroclor-1242	3	---			0.000	3	---			0.000	
Aroclor-1242	4	---			0.000	4	---			0.000	
Aroclor-1242	5	---			0.000	5	---			0.000	
Aroclor-1242	6	---			0.000	NS	---			----	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1248	1	---			0.000	1	---			0.000	
Aroclor-1248	2	---			0.000	2	---			0.000	
Aroclor-1248	3	---			0.000	3	---			0.000	

Aroclor-1248	4	---	0.000	4	---	0.000
Aroclor-1248	5	---	0.000	5	---	0.000
		STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1254	1	---	0.000	1	---	0.000
Aroclor-1254	2	---	0.000	2	---	0.000
Aroclor-1254	3	---	0.000	3	---	0.000
Aroclor-1254	4	---	0.000	4	---	0.000
Aroclor-1254	5	---	0.000	5	---	0.000
		STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1260	1	---	0.000	1	---	0.000
Aroclor-1260	2	---	0.000	2	---	0.000
Aroclor-1260	3	---	0.000	3	---	0.000
Aroclor-1260	4	---	0.000	4	---	0.000
Aroclor-1260	5	---	0.000	5	---	0.000
		STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1262	1	---	0.000	1	---	0.000
Aroclor-1262	2	---	0.000	2	---	0.000
Aroclor-1262	3	---	0.000	3	---	0.000
Aroclor-1262	4	---	0.000	4	---	0.000
Aroclor-1262	5	---	0.000	5	---	0.000
		STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1268	1	---	0.000	1	---	0.000
Aroclor-1268	2	---	0.000	2	---	0.000
Aroclor-1268	3	---	0.000	3	---	0.000
Aroclor-1268	4	---	0.000	4	---	0.000
Aroclor-1268	5	---	0.000	5	---	0.000
		STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	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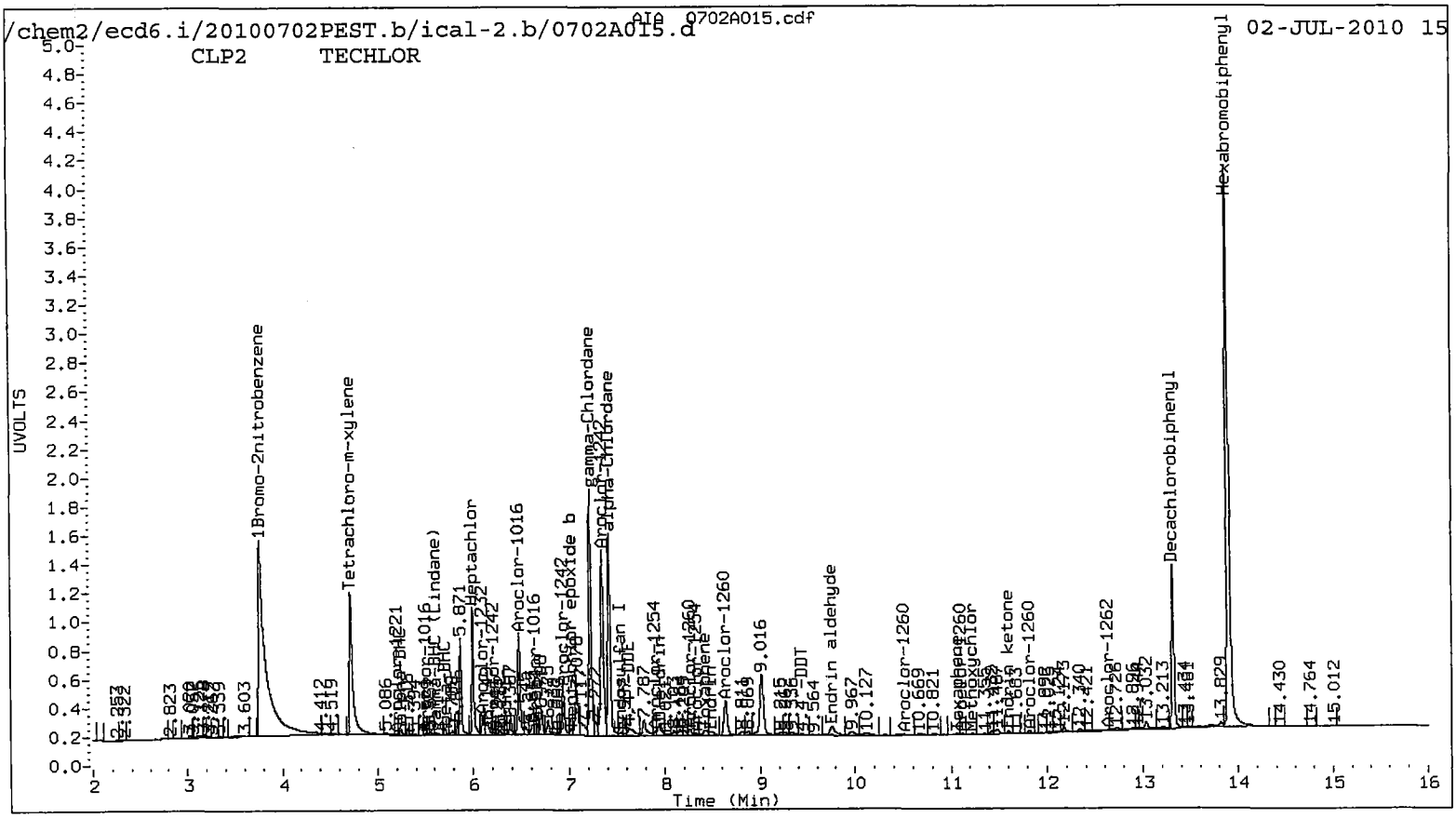
02-JUL-2010 15
STX-CLP TECHLOR
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobutadiene
Hexachlorobenzene
Heptachlor
Aroclor-1016
Aroclor-1242
Aroclor-1254
Aroclor-1260
gamma-Chlordane
alpha-Chlordane
Endosulfan I
Endosulfan II
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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0702A015.cdf
02-JUL-2010 15
CLP2 TECHLOR
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Heptachlor
Aroclor-1016
Aroclor-1242
Aroclor-1254
Aroclor-1260
gamma-Chlordane
alpha-Chlordane
Endosulfan I
Endosulfan II
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/ical-1.b/0702A016.d ARI ID: TECHLOR ICV
Data file 2: /chem2/ecd6.i/20100702PEST.b/ical-2.b/0702A016.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 15:33
Compound Sublist: pest Report Date: 07/06/2010 11:01
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.788	-0.001	2371443	3.763	0.004	1481718	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.242	0.050	34615	5.316	0.042	14495	0.6296	0.4532	32.6	alpha-BHC A B
5.531	-0.022	12184	5.707	0.047	17356	0.5198	1.2296	81.2*	beta-BHC A B
5.747	0.023	11647	----			0.2452	0.0000	---	delta-BHC
5.448	-0.027	28751	5.609	0.024	7320	0.5961	0.2608	78.3*	gamma-BHC (Lindane) A B
5.926	0.000	436003	6.003	0.000	252529	8.5654	8.5986	0.4	Heptachlor A B
6.253	0.021	6650	6.343	0.012	1665	0.1357	0.0631	73.0*	Aldrin A B
6.907	0.000	127586	7.014	0.030	19460	2.5631	0.7035	113.9*	Heptachlor epoxide b A B
7.464	0.023	29587	7.528	-0.002	21673	0.6187	0.9013	37.2	Endosulfan I A B
7.831	0.029	38181	7.950	-0.008	51610	0.7855	1.9399	84.7*	Dieldrin A B
7.359	0.042	61115	7.629	-0.004	35894	1.3929	1.4861	6.5	4,4'-DDE A B
----			8.491	-0.010	17853	0.0000	0.7777	---	Endrin
8.615	-0.002	22458	----			0.5425	0.0000	---	Endosulfan II
8.247	-0.034	233975	----			5.9050	0.0000	---	4,4'-DDD
10.667	-0.009	25723	----			0.6382	0.0000	---	Endosulfan sulfate
----			9.439	0.039	5292	0.0000	0.2515	---	4,4'-DDT
10.051	0.019	7035	11.219	0.024	2404	0.3366	0.2356	35.3	Methoxychlor A B
11.242	-0.021	4871	11.603	-0.037	5833	0.0948	0.2139	77.1*	Endrin ketone A B
----			9.759	-0.011	43466	0.0000	2.0364	---	Endrin aldehyde
7.065	0.000	1182048	7.220	0.001	575886	24.1050	22.1005	8.7	gamma-Chlordane A B
7.238	-0.002	1002683	7.418	0.000	509489	20.2924	19.8081	2.4	alpha-Chlordane A B
2.521	0.000	10499	2.518	0.001	2909	0.1383	0.0653	71.8*	Hexachlorobutadiene A B
5.050	0.011	8255	5.123	-0.028	4030	0.1727	0.1499	14.2	Hexachlorobenzene A B
12.993	0.000	3259557	13.910	0.001	1550689	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.660	0.006	659030	4.716	0.012	472752	18.6284	22.1197	17.1	Tetrachloro-m-xylene A B
12.804	0.000	749869	13.319	0.001	368326	20.1450	20.4672	1.6	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	46.6	55.3	46.6~	130- 0
Decachlorobiphenyl	50.4	51.2	50.4~	130- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2371443	-15.9
Hexabromobiphenyl	3321090	3259557	-1.9

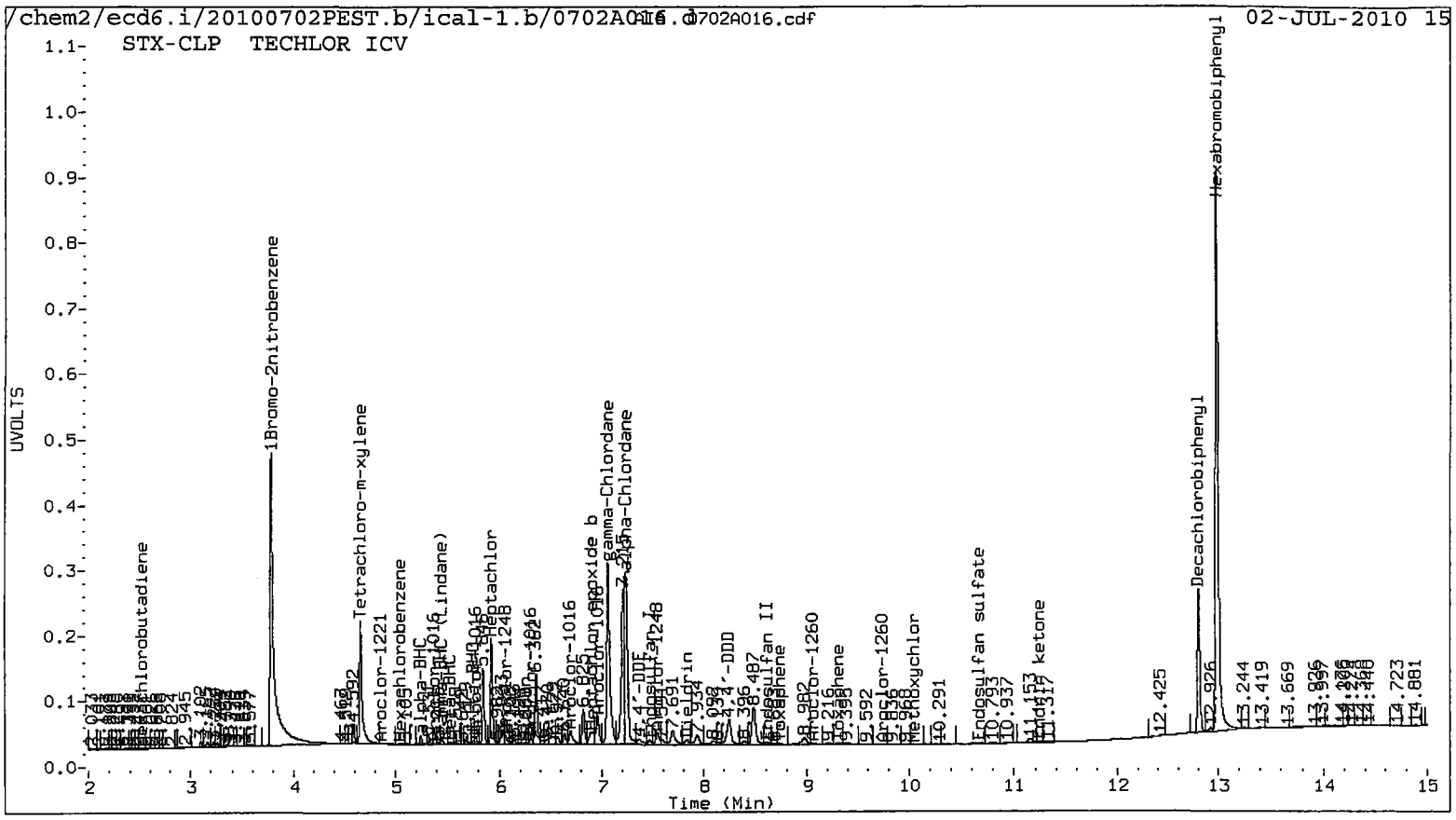
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1481718	-19.4
Hexabromobiphenyl	1522181	1550689	1.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor		STX-CLP Col RT	Shift	Height	Amount		CLP2 Col RT	Shift	Height	Amount
Toxaphene	1	8.736	0.008	9678	4.917	1	8.424	0.040	21310	27.033
Toxaphene	2	9.314	-0.003	13531	9.307	2	---			0.000
Toxaphene	3	---			0.000	3	9.759	0.013	43466	32.123
Toxaphene	4	---			0.000	4	---			0.000
Toxaphene	5	11.242	0.016	4871	4.009	5	11.819	0.041	6149	11.670
Toxaphene	6	---			0.000	NS	---			----
Total STX-CLPAve (3 peaks): 6.078						Total CLP2Ave (3 peaks): 23.608				RPD = 118*
Corrected Ave (3 peaks): 6.078						Corrected Ave (3 peaks): 23.608				RPD = 118*
Aroclor-1016	1	---			0.000	1	---			0.000
Aroclor-1016	2	---			0.000	2	---			0.000
Aroclor-1016	3	---			0.000	3	---			0.000
Aroclor-1016	4	---			0.000	4	---			0.000
Aroclor-1016	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.000	1	---			0.000
Aroclor-1221	2	---			0.000	2	---			0.000
Aroclor-1221	3	---			0.000	3	---			0.000
Aroclor-1221	4	---			0.000	4	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.000	1	---			0.000
Aroclor-1232	2	---			0.000	2	---			0.000
Aroclor-1232	3	---			0.000	3	---			0.000
Aroclor-1232	4	---			0.000	4	---			0.000
Aroclor-1232	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.000	1	---			0.000
Aroclor-1242	2	---			0.000	2	---			0.000
Aroclor-1242	3	---			0.000	3	---			0.000
Aroclor-1242	4	---			0.000	4	---			0.000
Aroclor-1242	5	---			0.000	5	---			0.000
Aroclor-1242	6	---			0.000	NS	---			----
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.000	1	---			0.000
Aroclor-1248	2	---			0.000	2	---			0.000
Aroclor-1248	3	---			0.000	3	---			0.000

Aroclor-1248 4	---	0.000	4	---	0.000
Aroclor-1248 5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1254 1	---	0.000	1	---	0.000
Aroclor-1254 2	---	0.000	2	---	0.000
Aroclor-1254 3	---	0.000	3	---	0.000
Aroclor-1254 4	---	0.000	4	---	0.000
Aroclor-1254 5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1260 1	---	0.000	1	---	0.000
Aroclor-1260 2	---	0.000	2	---	0.000
Aroclor-1260 3	---	0.000	3	---	0.000
Aroclor-1260 4	---	0.000	4	---	0.000
Aroclor-1260 5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1262 1	---	0.000	1	---	0.000
Aroclor-1262 2	---	0.000	2	---	0.000
Aroclor-1262 3	---	0.000	3	---	0.000
Aroclor-1262 4	---	0.000	4	---	0.000
Aroclor-1262 5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	
Aroclor-1268 1	---	0.000	1	---	0.000
Aroclor-1268 2	---	0.000	2	---	0.000
Aroclor-1268 3	---	0.000	3	---	0.000
Aroclor-1268 4	---	0.000	4	---	0.000
Aroclor-1268 5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks	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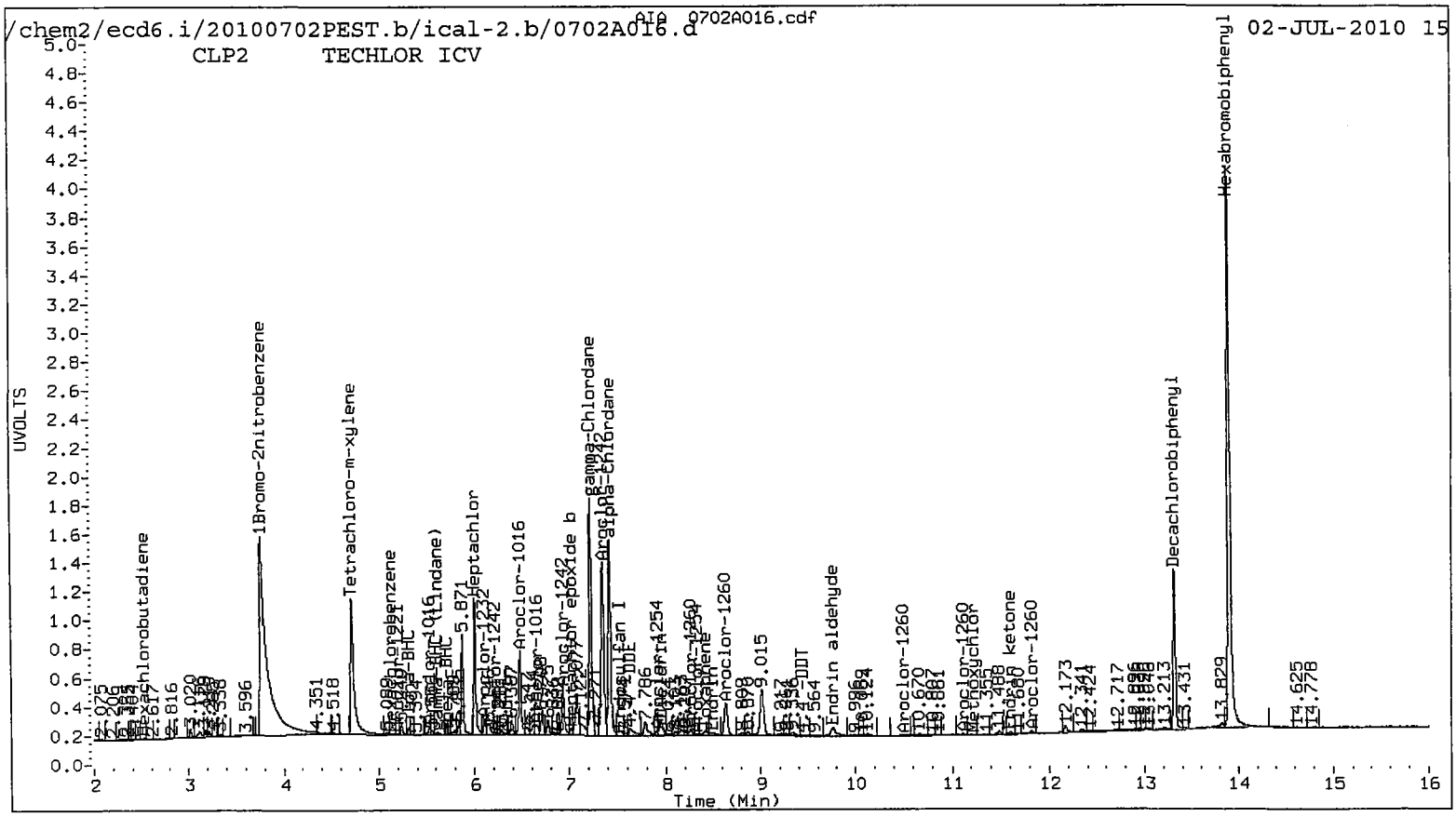
AIB 0702A016.cdf
02-JUL-2010 15
STX-CLP TECHLOR ICV
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexabromobiphenyl
Decachlorobiphenyl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AIB 0702A016.cdf
02-JUL-2010 15
CLP2 TECHLOR ICV
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexabromobiphenyl
Decachlorobiphenyl

AR 7/6/2010

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A017.d ARI ID: TOXAPH 2500
Data file 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A017.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 15:54
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col RT	Shift	Response	CLP2 Col RT	Shift	Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.788	-0.001	2340440	3.764	0.004	1495296	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.993	0.000	3349282	13.910	0.001	1551509	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.657	0.004	1371360	4.711	0.007	850262	39.2768	39.4219	0.4	Tetrachloro-m-xylene A B
12.804	0.000	1476368	13.318	0.001	686565	38.5997	38.1309	1.2	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	98.2	98.6	98.2~	150- 0
Decachlorobiphenyl	96.5	95.3	95.3~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

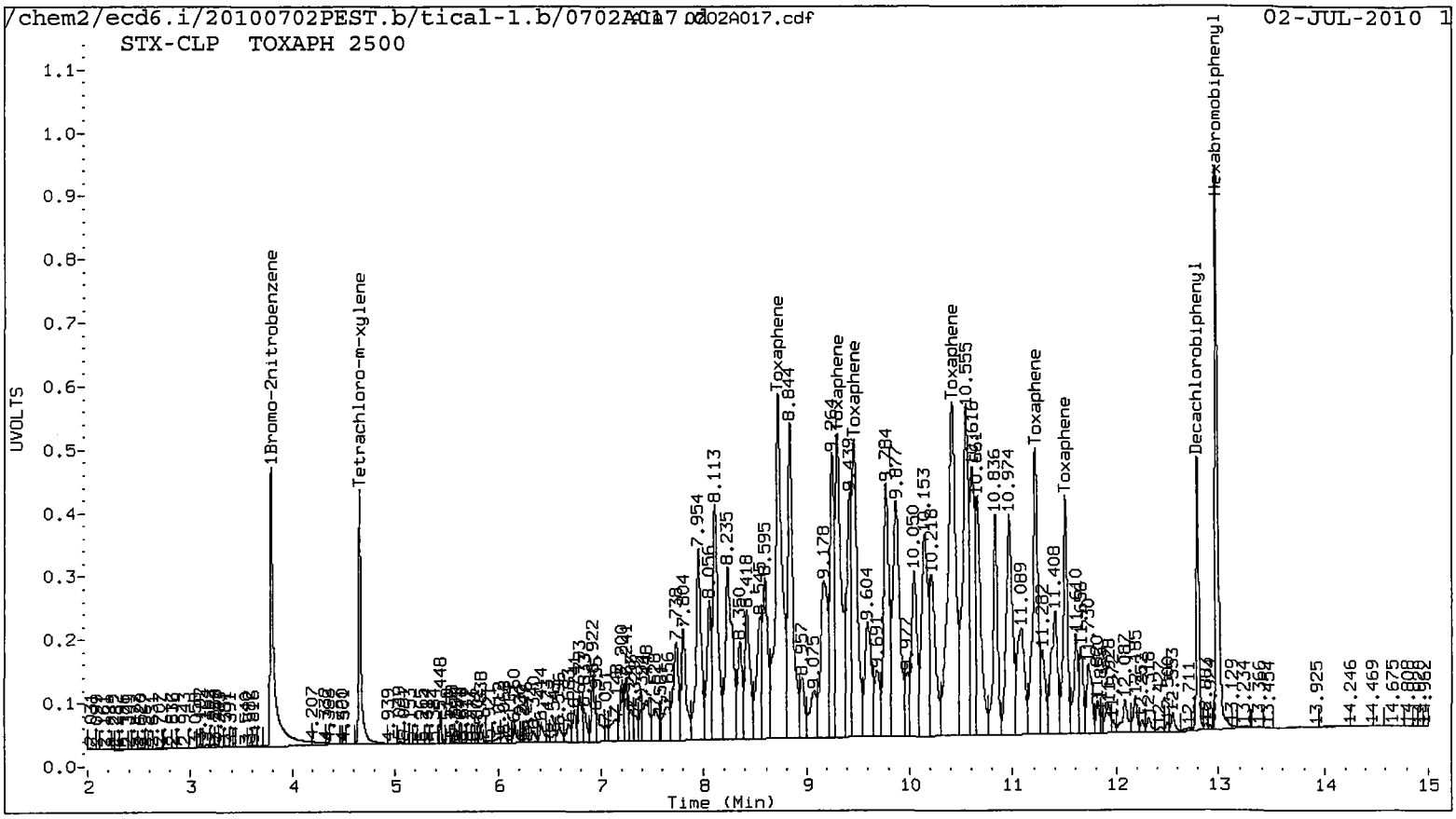
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2340440	-17.0
Hexabromobiphenyl	3321090	3349282	0.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1495296	-18.7
Hexabromobiphenyl	1522181	1551509	1.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.728	0.000	5185886	2563.787	1	8.384	0.000	1958522	2483.155
Toxaphene	2	9.317	0.000	3920137	2624.112	2	9.110	0.001	3118148	2521.946
Toxaphene	3	9.480	0.001	3439723	2643.199	3	9.747	0.001	3437840	2539.311
Toxaphene	4	10.423	0.000	5687742	2644.159	4	11.058	0.000	2715672	2494.935
Toxaphene	5	11.226	0.000	3091206	2476.043	5	11.778	0.000	1322940	2509.496
Toxaphene	6	11.514	0.000	2150260	2704.427	NS	---			----
Total STX-CLPAve (6 peaks): 2609.288						Total CLP2Ave (5 peaks): 2509.769				RPD = 4
Corrected Ave (6 peaks): 2609.288						Corrected Ave (5 peaks): 2509.769				RPD = 4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UVOLTS
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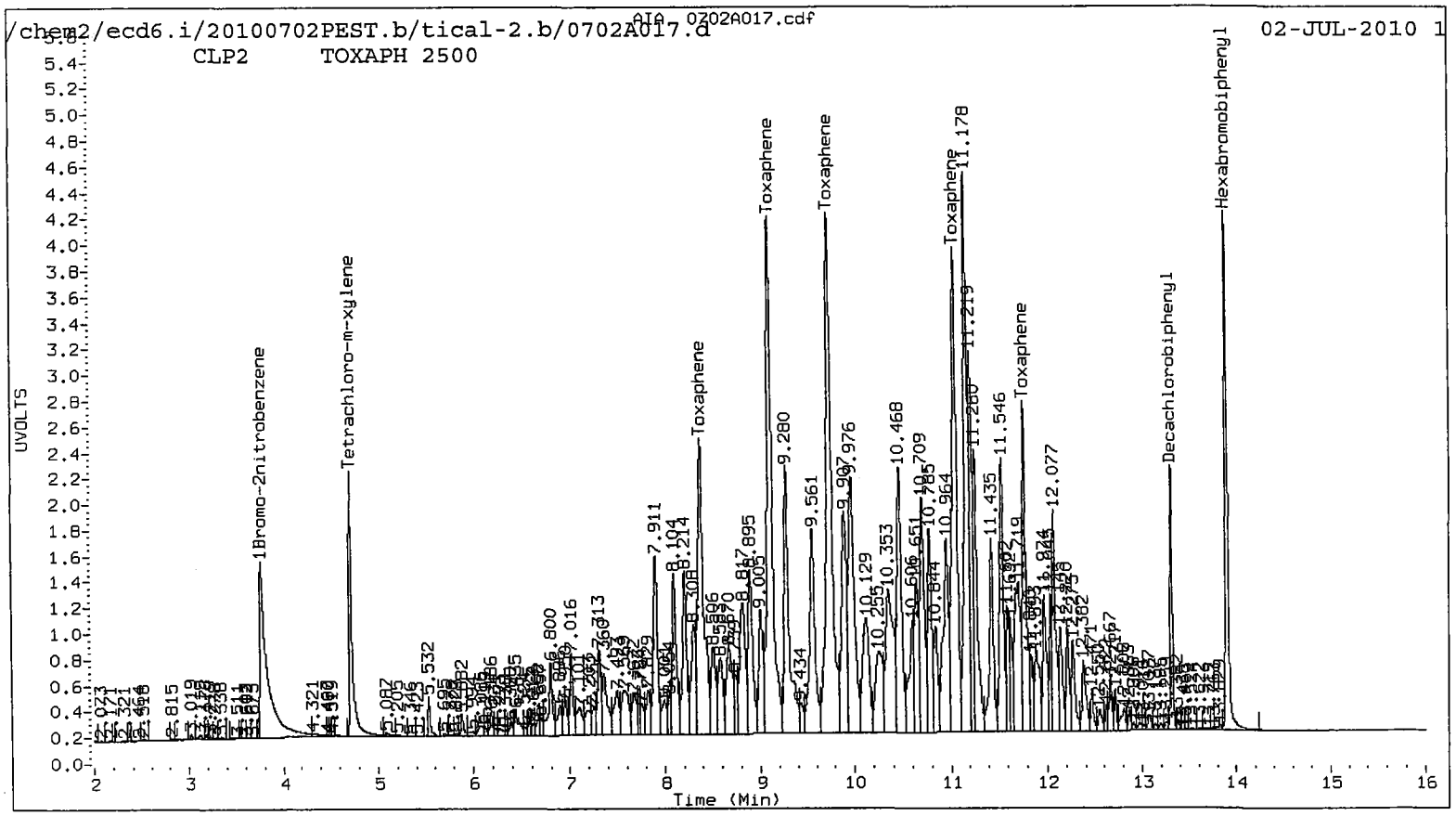
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl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AIA 0702A017.cdf
02-JUL-2010 1
CLP2 TOXAPH 2500
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl

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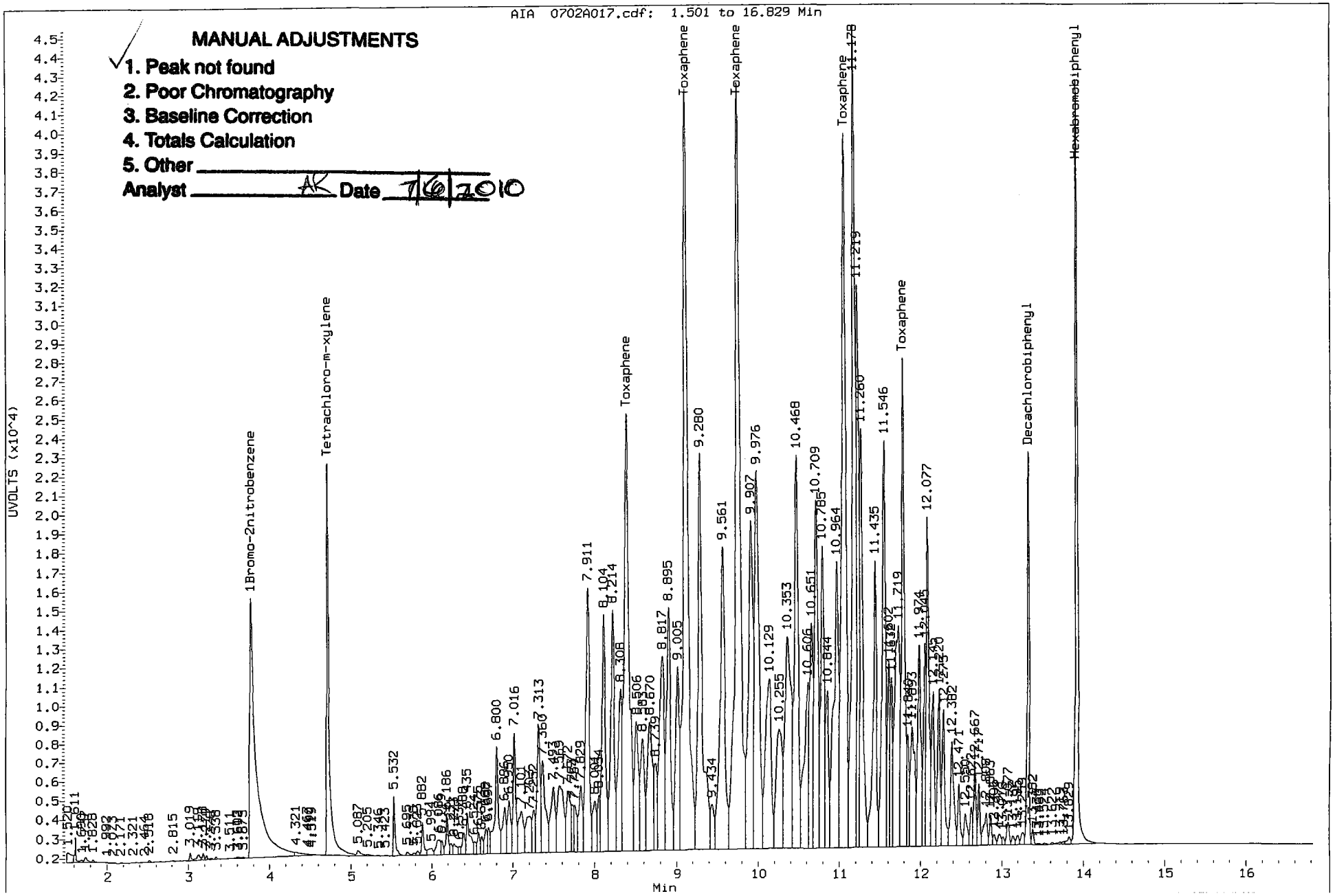
Injection Date: 02-JUL-2010 15:54
Instrument: ecd6.i
Client Sample ID:



RF-71-0822

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A018.d ARI ID: TOXAPH 125
Data file 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A018.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 16:15
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.788	-0.001	2361802	3.765	0.005	1494550	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.993	0.000	3261345	13.910	0.001	1542522	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.668	0.014	77114	4.728	0.023	49901	2.1886	2.3148	5.6	Tetrachloro-m-xylene A B
12.804	0.000	104396	13.319	0.001	49169	2.8030	2.7467	2.0	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	5.5	5.8	5.5~	150- 0
Decachlorobiphenyl	7.0	6.9	6.9~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2361802	-16.3
Hexabromobiphenyl	3321090	3261345	-1.8

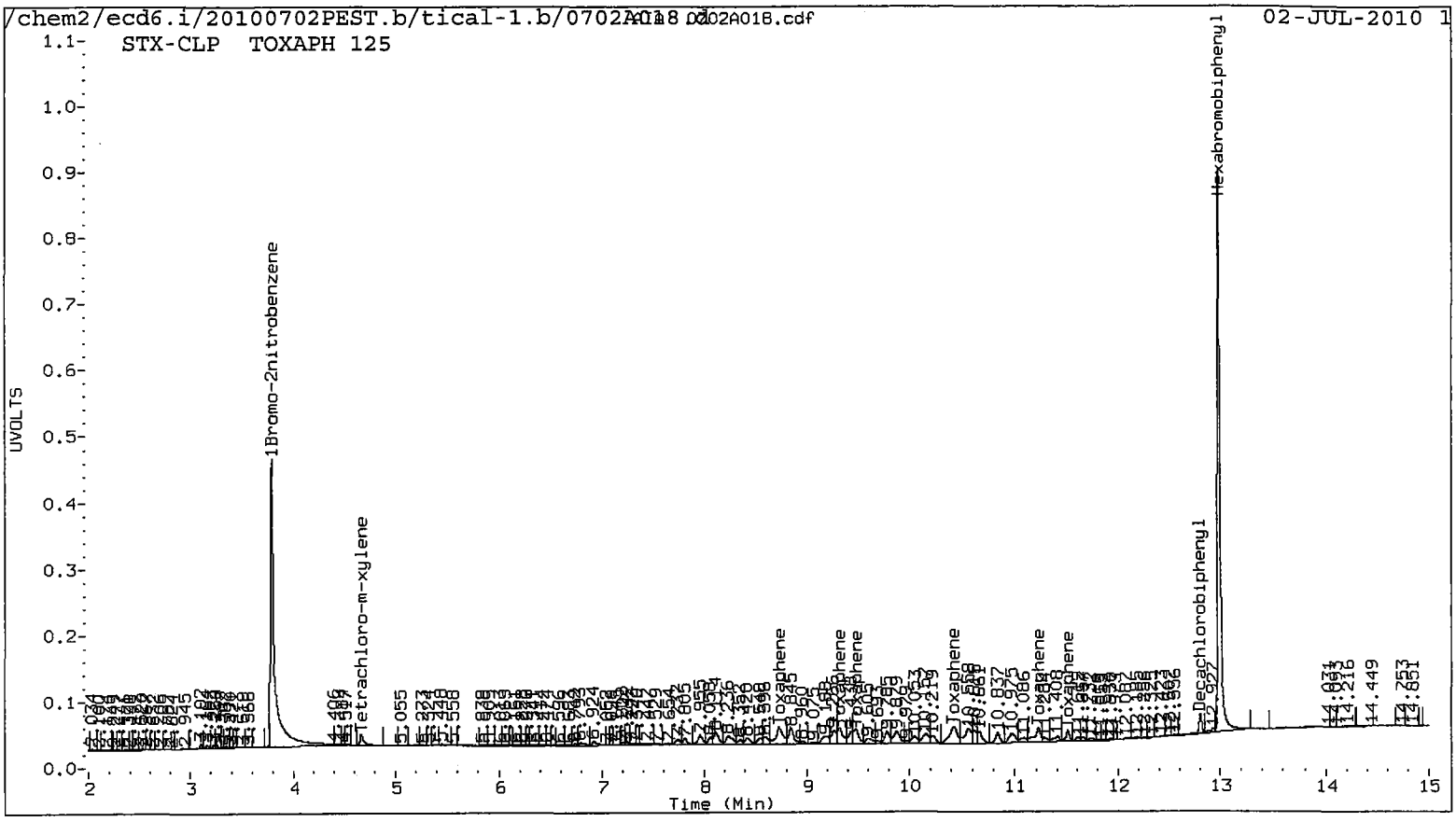
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1494550	-18.7
Hexabromobiphenyl	1522181	1542522	1.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.730	0.002	247173	125.492	1	8.385	0.001	104247	132.942
Toxaphene	2	9.318	0.001	190703	131.097	2	9.113	0.004	160965	130.946
Toxaphene	3	9.480	0.001	153644	121.249	3	9.750	0.004	173106	128.607
Toxaphene	4	10.426	0.003	244762	116.855	4	11.061	0.004	143991	133.058
Toxaphene	5	11.228	0.002	172956	142.272	5	11.779	0.001	66698	127.257
Toxaphene	6	11.514	0.000	81163	104.833	NS	---			----

Total STX-CLPAve (6 peaks): 123.633 Total CLP2Ave (5 peaks): 130.562 RPD = 5
Corrected Ave (6 peaks): 123.633 Corrected Ave (5 peaks): 130.562 RPD = 5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UVOLTS
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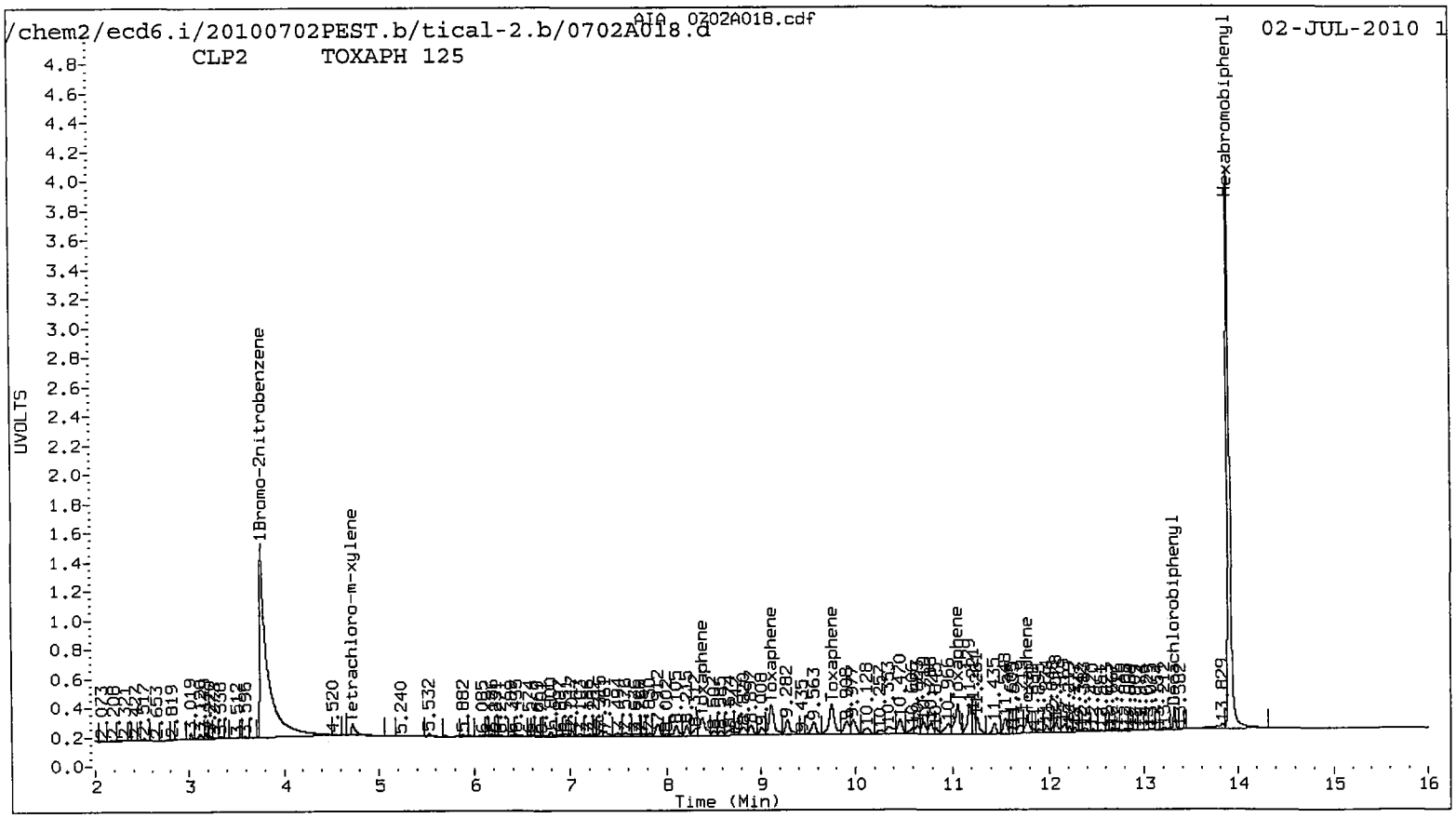
Tetrachloro-m-xylene
Toxaphene
Hexabromobiphenyl
Decachlorobiphenyl
Time (Min)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02-JUL-2010 1
CLP2 TOXAPH 125
UVOLTS
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Hexabromobiphenyl
Decachlorobiphenyl
Time (Min)

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A019.d ARI ID: TOXAPH 250
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Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 16:36
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.788	-0.001	2445378	3.763	0.004	1625274	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.993	0.000	3550769	13.910	0.001	1698466	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.665	0.012	160315	4.724	0.019	102313	4.3945	4.3643	0.7	Tetrachloro-m-xylene A B
12.804	0.000	201706	13.319	0.001	95410	4.9744	4.8405	2.7	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	11.0	10.9	10.9~	150- 0
Decachlorobiphenyl	12.4	12.1	12.1~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2445378	-13.3
Hexabromobiphenyl	3321090	3550769	6.9

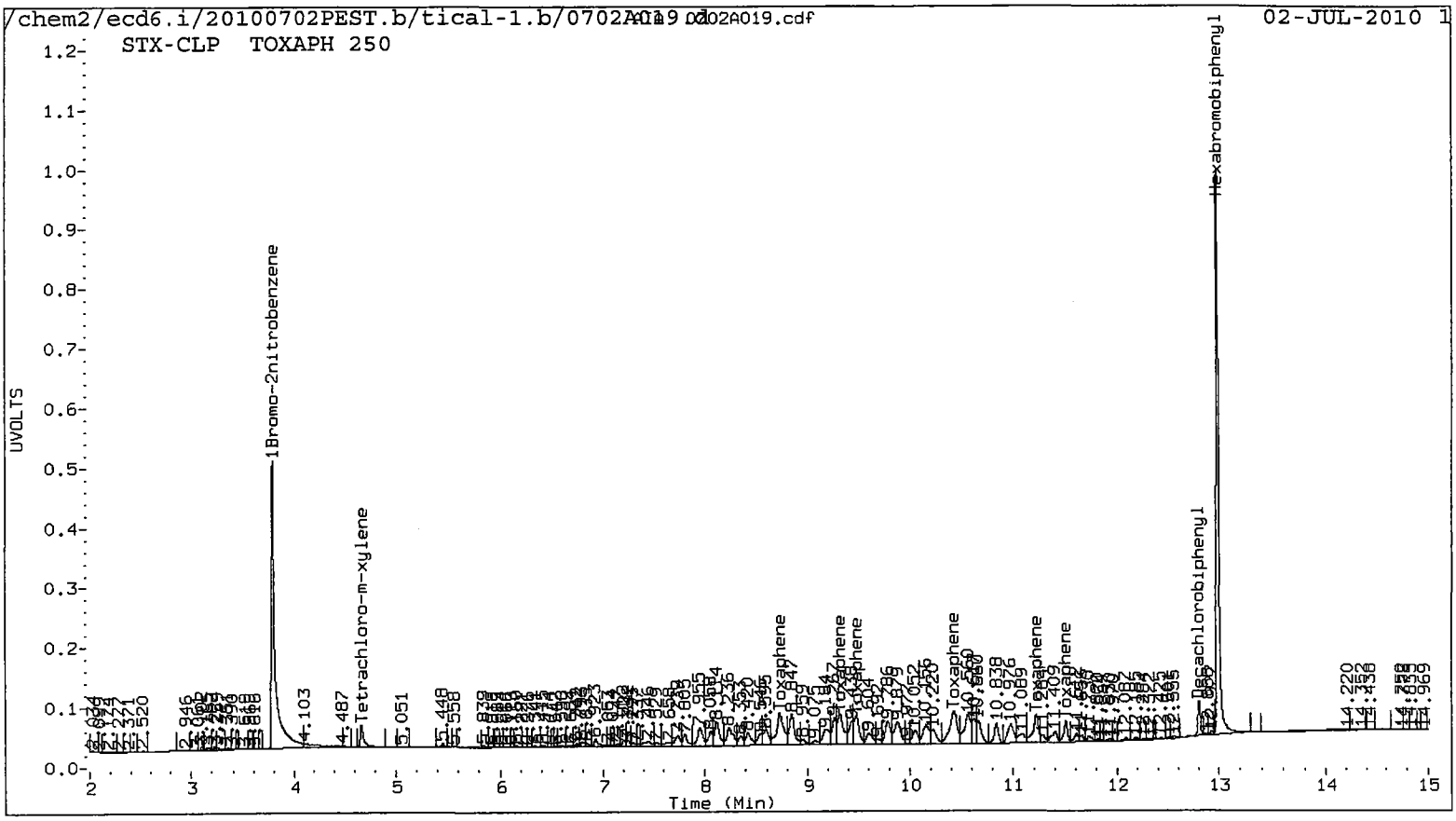
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1625274	-11.6
Hexabromobiphenyl	1522181	1698466	11.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col			
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.730	0.002	533138	248.615	1	8.385	0.002	218224	252.741
Toxaphene	2	9.318	0.001	403058	254.494	2	9.113	0.004	336205	248.394
Toxaphene	3	9.480	0.001	329946	239.155	3	9.750	0.003	366277	247.137
Toxaphene	4	10.426	0.003	544228	238.648	4	11.061	0.003	297615	249.766
Toxaphene	5	11.228	0.002	325275	245.759	5	11.779	0.000	139927	242.463
Toxaphene	6	11.514	0.000	180962	214.685	NS	---			----

Total STX-CLPAve (6 peaks): 240.226 Total CLP2Ave (5 peaks): 248.100 RPD = 3
Corrected Ave (6 peaks): 240.226 Corrected Ave (5 peaks): 248.100 RPD = 3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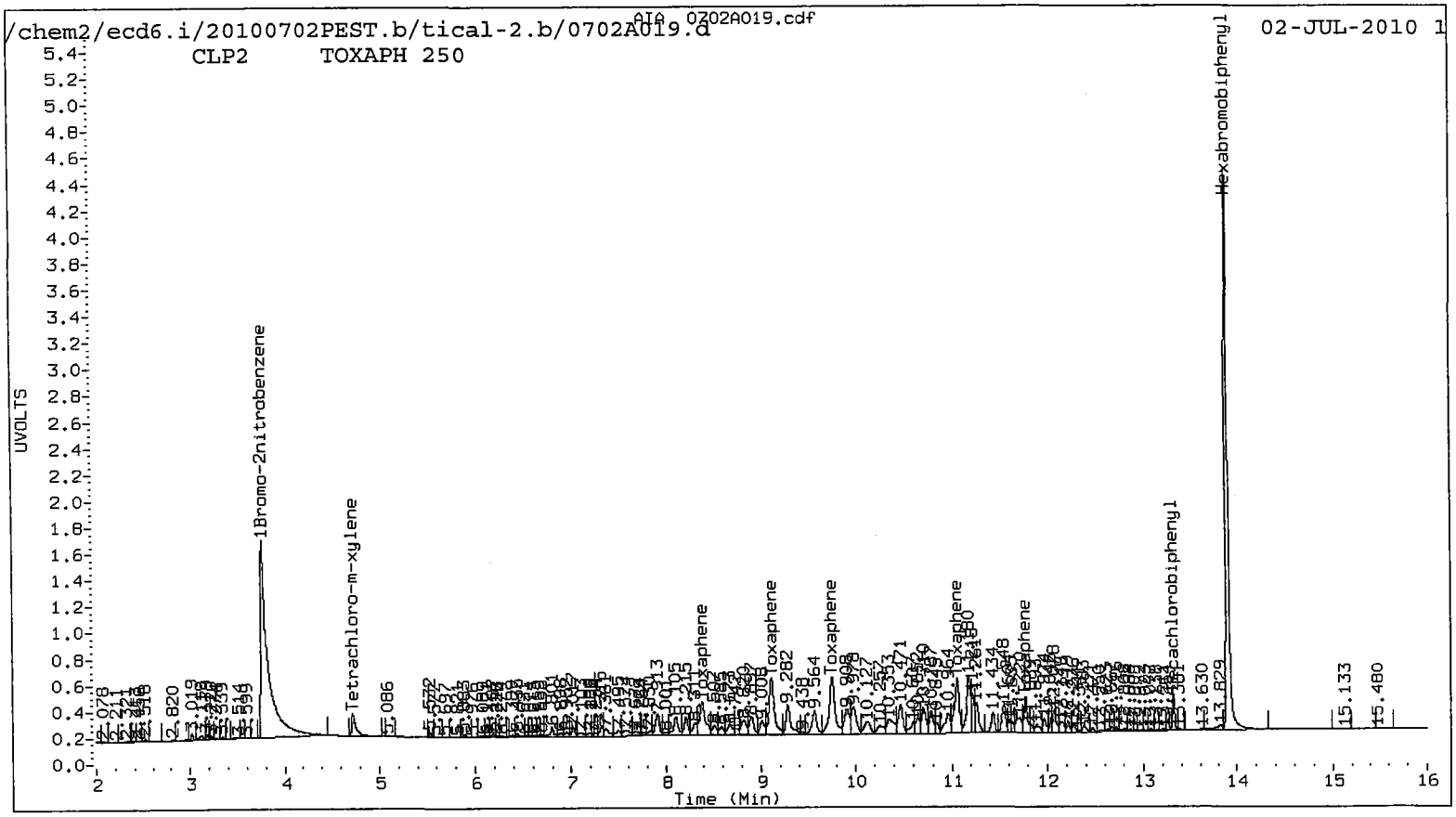
Tetrachloro-m-xylene
Toxaphene
Hexabromobiphenyl
Decachlorobiphenyl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AIA 0Z02A019.cdf
02-JUL-2010 1
CLP2 TOXAPH 250
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Hexabromobiphenyl
Decachlorobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A020.d ARI ID: TOXAPH 500
Data file 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A020.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 16:57
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.788	-0.001	2481918	3.764	0.005	1585020	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.994	0.001	3463478	13.910	0.001	1664503	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.663	0.010	306822	4.721	0.016	191455	8.2867	8.3742	1.1	Tetrachloro-m-xylene A B
12.804	0.001	363264	13.318	0.000	173165	9.1844	8.9645	2.4	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	20.7	20.9	20.7~	150- 0
Decachlorobiphenyl	23.0	22.4	22.4~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2481918	-12.0
Hexabromobiphenyl	3321090	3463478	4.3

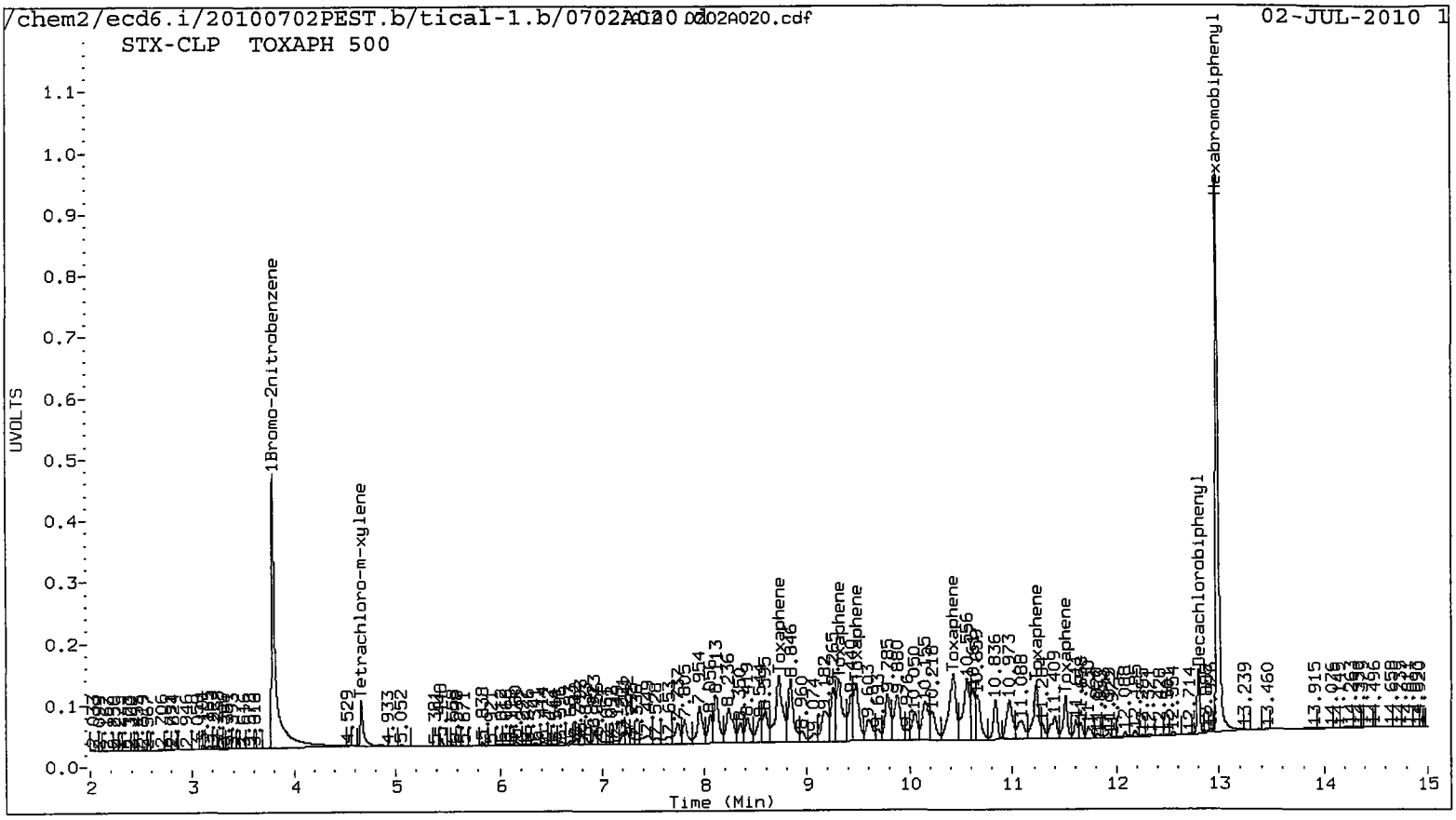
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1585020	-13.8
Hexabromobiphenyl	1522181	1664503	9.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col			
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.729	0.001	1046528	500.321	1	8.384	0.001	428206	506.055
Toxaphene	2	9.319	0.002	786073	508.842	2	9.111	0.002	661893	498.995
Toxaphene	3	9.479	0.000	662546	492.336	3	9.749	0.003	727145	500.635
Toxaphene	4	10.426	0.003	1073811	482.742	4	11.059	0.002	578866	495.712
Toxaphene	5	11.227	0.001	604809	468.476	5	11.779	0.001	276024	488.048
Toxaphene	6	11.514	0.000	378063	459.820	NS	---			----

Total STX-CLPAve (6 peaks): 485.423 Total CLP2Ave (5 peaks): 497.889 RPD = 3
Corrected Ave (6 peaks): 485.423 Corrected Ave (5 peaks): 497.889 RPD = 3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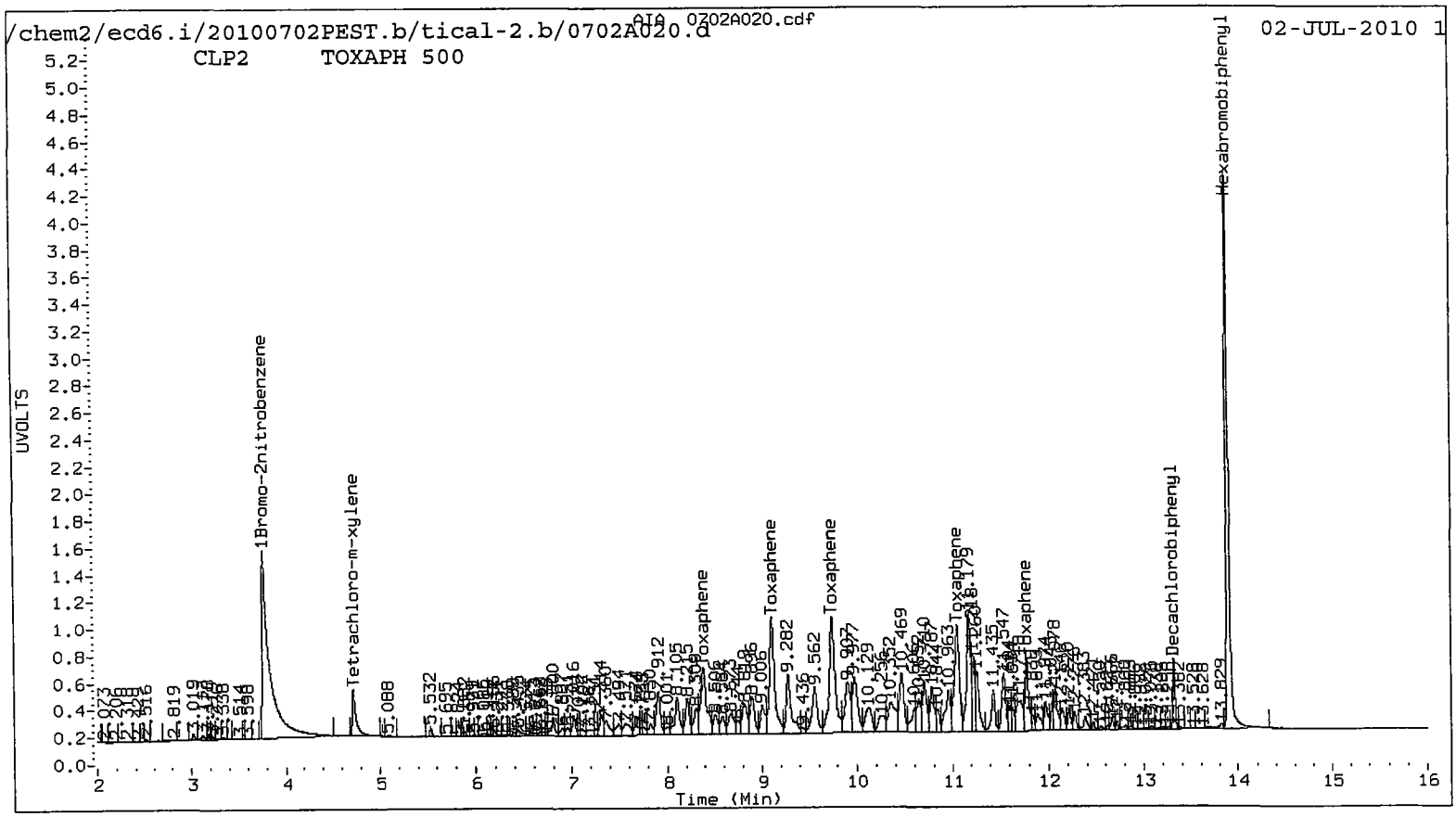
02-JUL-2010 1
STX-CLP TOXAPH 500
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Hexabromobiphenyl
Decachlorobiphenyl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AIA 0702A020.cdf
02-JUL-2010 1
CLP2 TOXAPH 500
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Hexabromobiphenyl
Decachlorobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A021.d ARI ID: TOXAPH 1000
Data file 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A021.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 17:18
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.788	-0.001	2525107	3.764	0.005	1639546	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.993	0.000	3590246	13.910	0.001	1715341	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.661	0.007	613913	4.716	0.012	390090	16.2970	16.4950	1.2	Tetrachloro-m-xylene A B
12.804	0.000	698136	13.318	0.000	331350	17.0277	16.6451	2.3	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	40.7	41.2	40.7~	150- 0
Decachlorobiphenyl	42.6	41.6	41.6~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

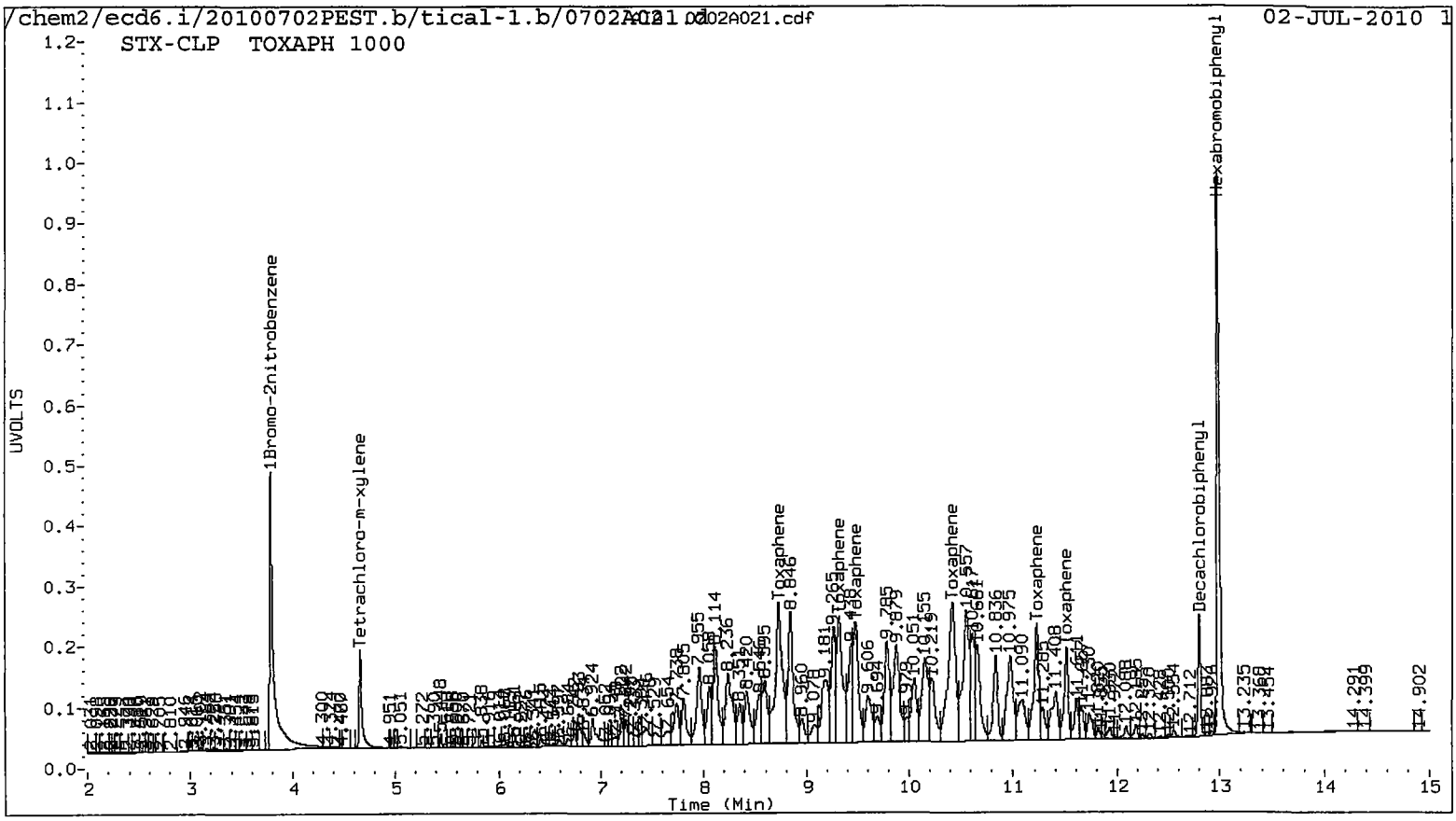
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2525107	-10.5
Hexabromobiphenyl	3321090	3590246	8.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1639546	-10.9
Hexabromobiphenyl	1522181	1715341	12.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.729	0.001	2218336	1023.090	1	8.385	0.001	875290	1003.763
Toxaphene	2	9.317	0.000	1660737	1037.074	2	9.111	0.002	1375941	1006.567
Toxaphene	3	9.480	0.001	1437061	1030.171	3	9.748	0.002	1522304	1017.034
Toxaphene	4	10.424	0.001	2363929	1025.202	4	11.060	0.002	1207684	1003.550
Toxaphene	5	11.227	0.001	1285759	960.765	5	11.779	0.000	583432	1001.015
Toxaphene	6	11.514	0.001	839697	985.222	NS	---			----
Total STX-CLPAve (6 peaks): 1010.254						Total CLP2Ave (5 peaks): 1006.386				RPD = 0
Corrected Ave (6 peaks): 1010.254						Corrected Ave (5 peaks): 1006.386				RPD = 0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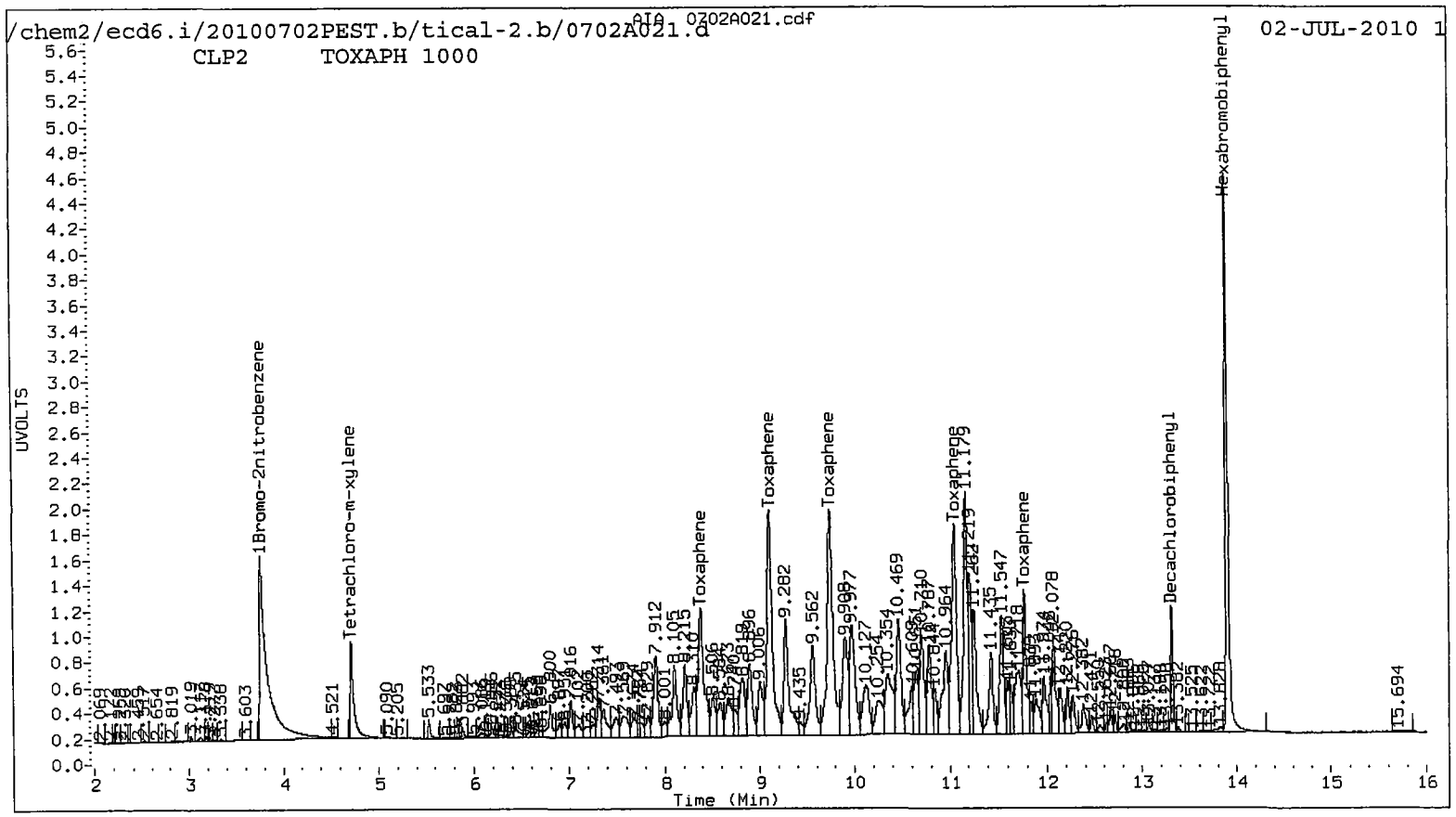
STX-CLP TOXAPH 1000
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl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02-JUL-2010 1
CLP2 TOXAPH 1000
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A022.d ARI ID: TOXAPH 5000
Data file 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A022.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 17:38
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.788	-0.001	2519805	3.765	0.005	1639130	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.993	0.000	3718313	13.910	0.001	1771479	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.655	0.002	2808163	4.708	0.003	1775413	74.7029	75.0927	0.5	Tetrachloro-m-xylene A B
12.804	0.000	2955486	13.318	0.000	1427914	69.6023	69.4570	0.2	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	186.8	187.7	186.8~	150- 0
Decachlorobiphenyl	174.0	173.6	173.6~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

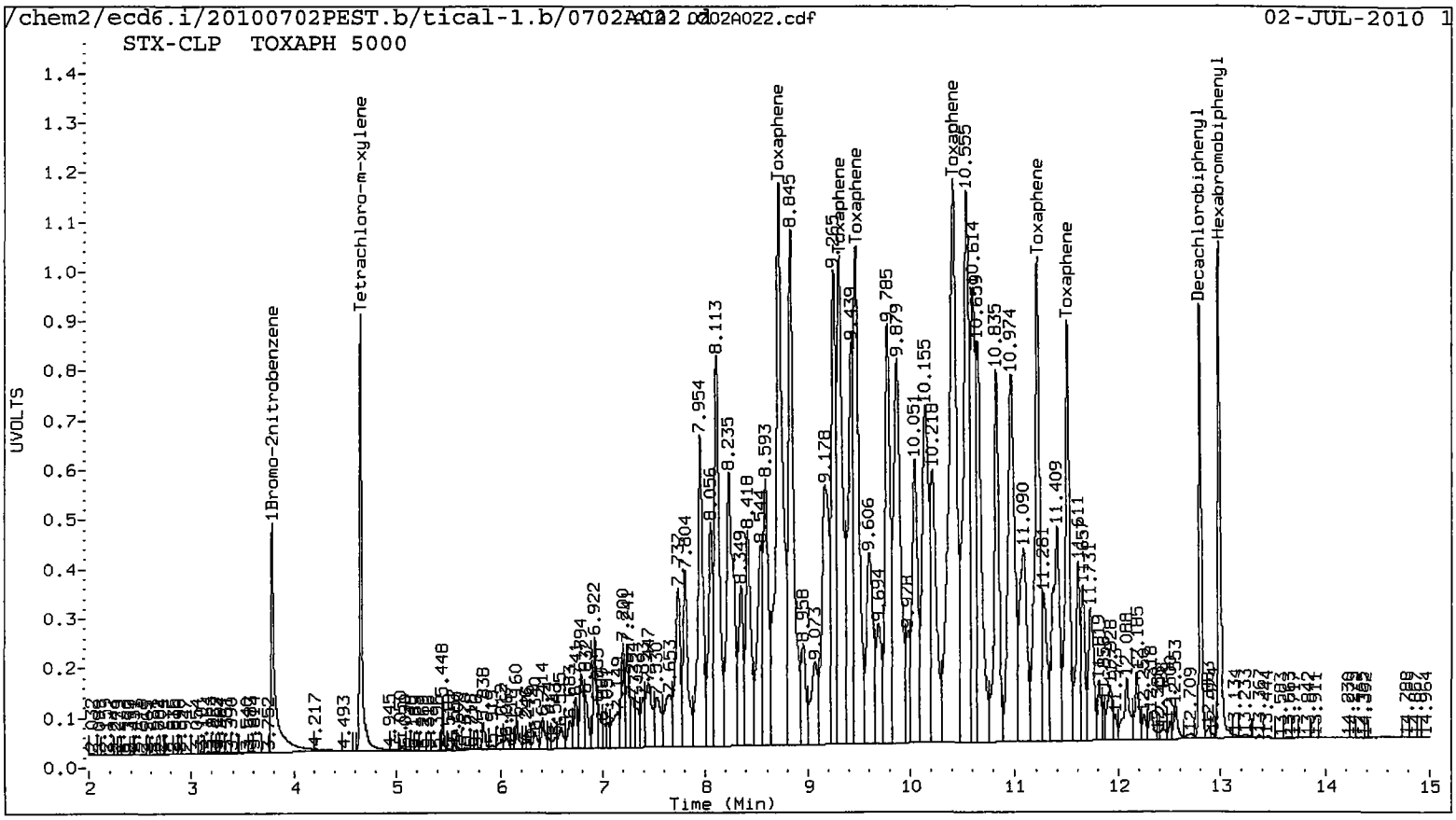
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2519805	-10.7
Hexabromobiphenyl	3321090	3718313	12.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1639130	-10.9
Hexabromobiphenyl	1522181	1771479	16.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.728	0.000	10889683	4849.310	1	8.383	0.000	4173418	4634.314
Toxaphene	2	9.317	0.000	7360294	4437.947	2	9.109	0.000	6696243	4743.388
Toxaphene	3	9.479	0.000	7242055	5012.727	3	9.746	0.000	7308158	4727.770
Toxaphene	4	10.422	-0.001	12150030	5087.809	4	11.057	-0.001	5846153	4704.033
Toxaphene	5	11.226	0.000	6747210	4868.109	5	11.778	0.000	2937971	4881.038
Toxaphene	6	11.514	0.000	4929072	5584.125	NS	---			----
Total STX-CLPAve (6 peaks): 4973.338						Total CLP2Ave (5 peaks): 4738.109				RPD = 5
Corrected Ave (6 peaks): 4973.338						Corrected Ave (5 peaks): 4738.109				RPD = 5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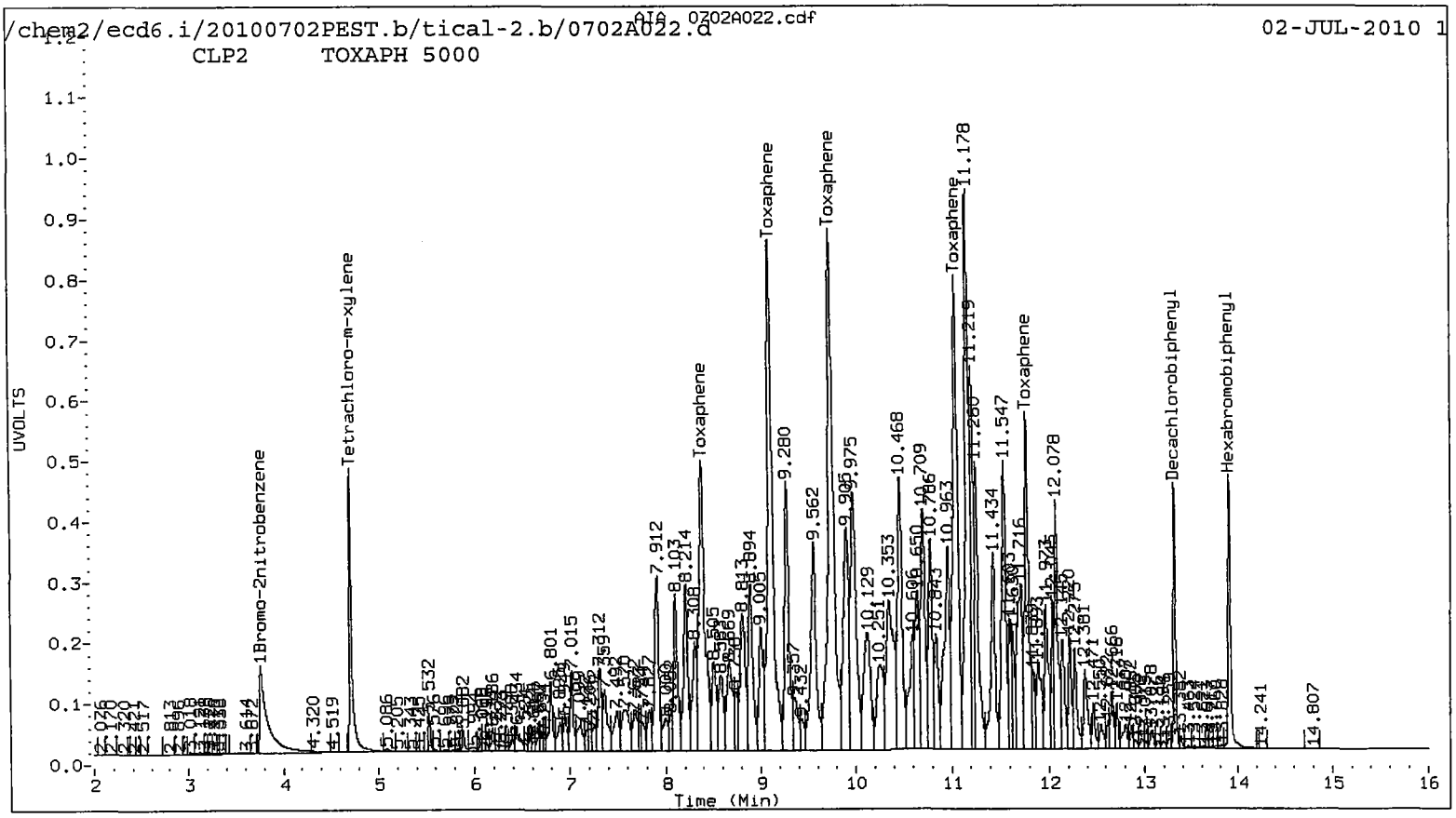
STX-CLP TOXAPH 5000
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl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0702A022.cdf
02-JUL-2010 1
CLP2 TOXAPH 5000
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A023.d ARI ID: TOXAPH 10000
Data file 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A023.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 17:59
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:00
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col RT	STX-CLP Col Shift	STX-CLP Col Response	CLP2 Col RT	CLP2 Col Shift	CLP2 Col Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.789	0.000	2083963	3.767	0.008	1373014	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.993	0.000	3478996	13.910	0.001	1549943	80.0000	80.0000	0.0	Hexabromobiphenyl A BM
4.654	0.000	5266730	4.705	0.001	3317347	169.4076	167.5048	1.1	Tetrachloro-m-xylene A
12.804	0.000	5584225	13.318	0.000	2634448	140.5561	146.4615	4.1	Decachlorobiphenyl A BM

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	423.5	418.8	418.8~	150- 0
Decachlorobiphenyl	351.4	366.2	351.4~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2083963	-26.1
Hexabromobiphenyl	3321090	3478996	4.8

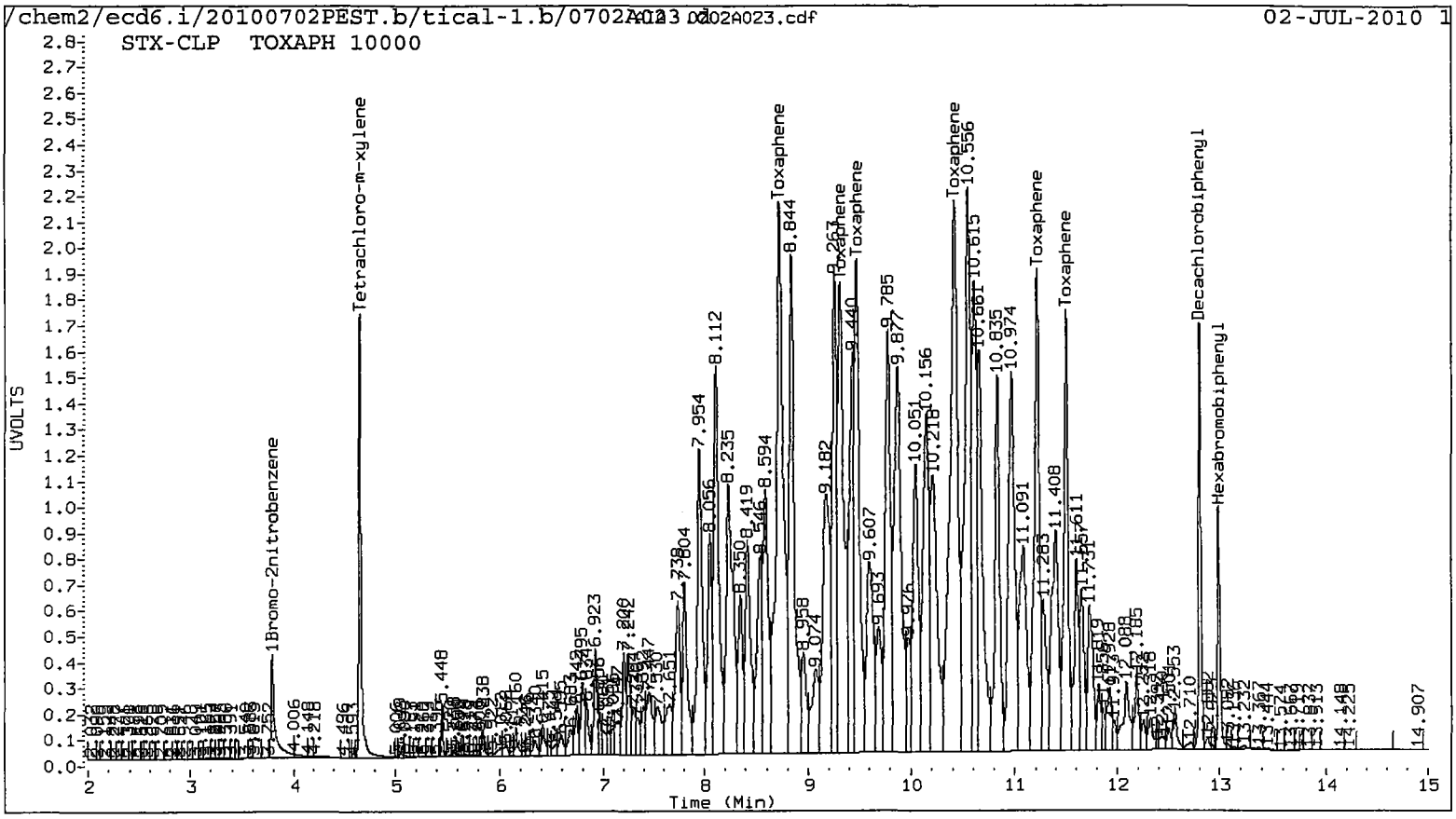
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1373014	-25.3
Hexabromobiphenyl	1522181	1549943	1.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col				CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.728	0.000	20643064	9824.962	1	8.384	0.000	7796576	9895.045
Toxaphene	2	9.317	0.000	14605851	9412.518	2	9.109	0.000	12312537	9968.395
Toxaphene	3	9.479	0.000	13500232	9987.240	3	9.746	0.000	13565582	10030.144
Toxaphene	4	10.423	0.000	23341499	10446.582	4	11.058	0.000	10903298	10027.169
Toxaphene	5	11.226	0.000	13188746	10170.249	5	11.778	0.000	5555927	10549.734
Toxaphene	6	11.514	0.000	9903492	11991.413	NS	---			----

Total STX-CLPAve (6 peaks): 10305.494 Total CLP2Ave (5 peaks): 10094.097 RPD = 2
Corrected Ave (6 peaks): 10305.494 Corrected Ave (5 peaks): 10094.097 RPD = 2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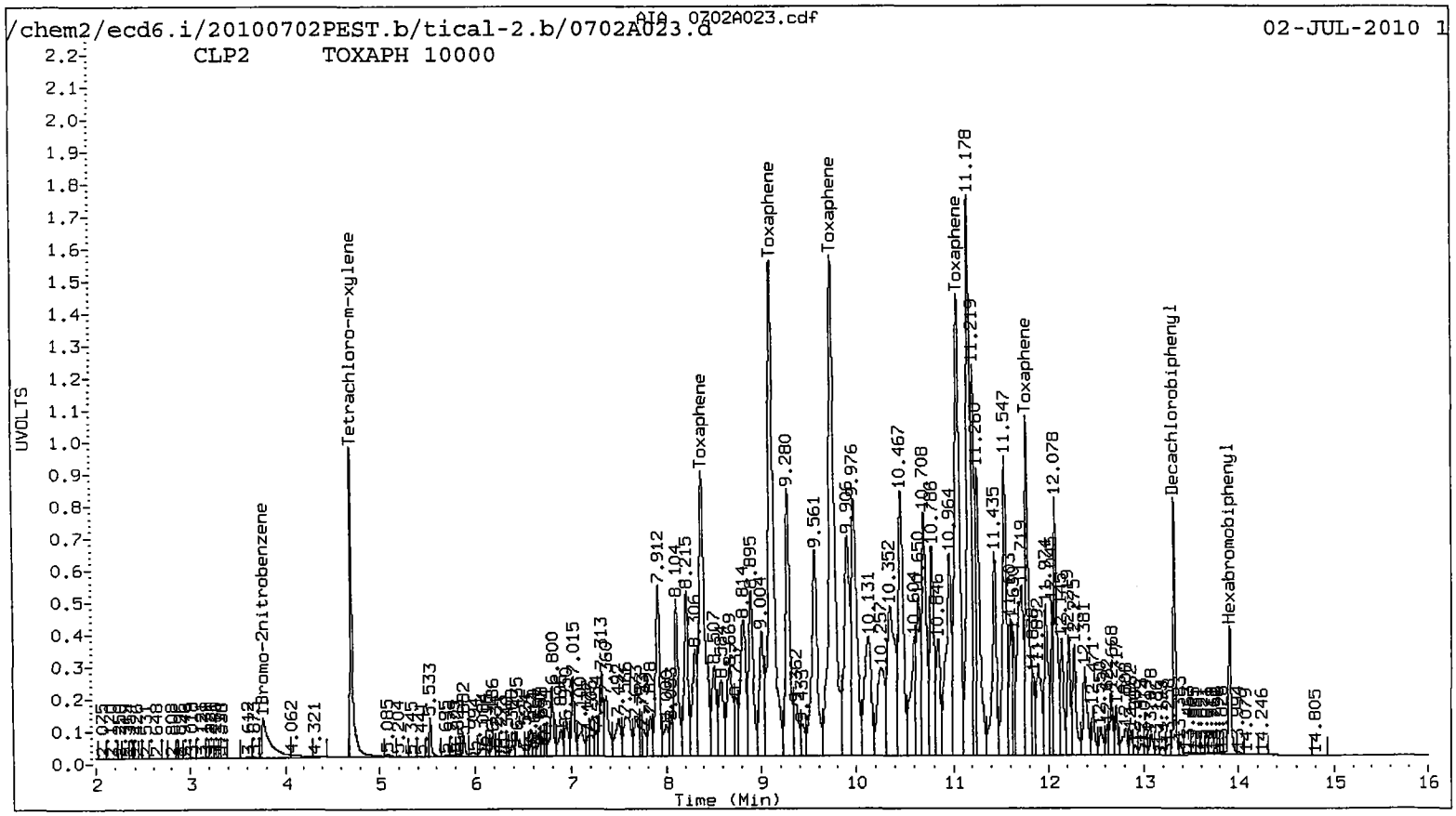
STX-CLP TOXAPH 10000
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl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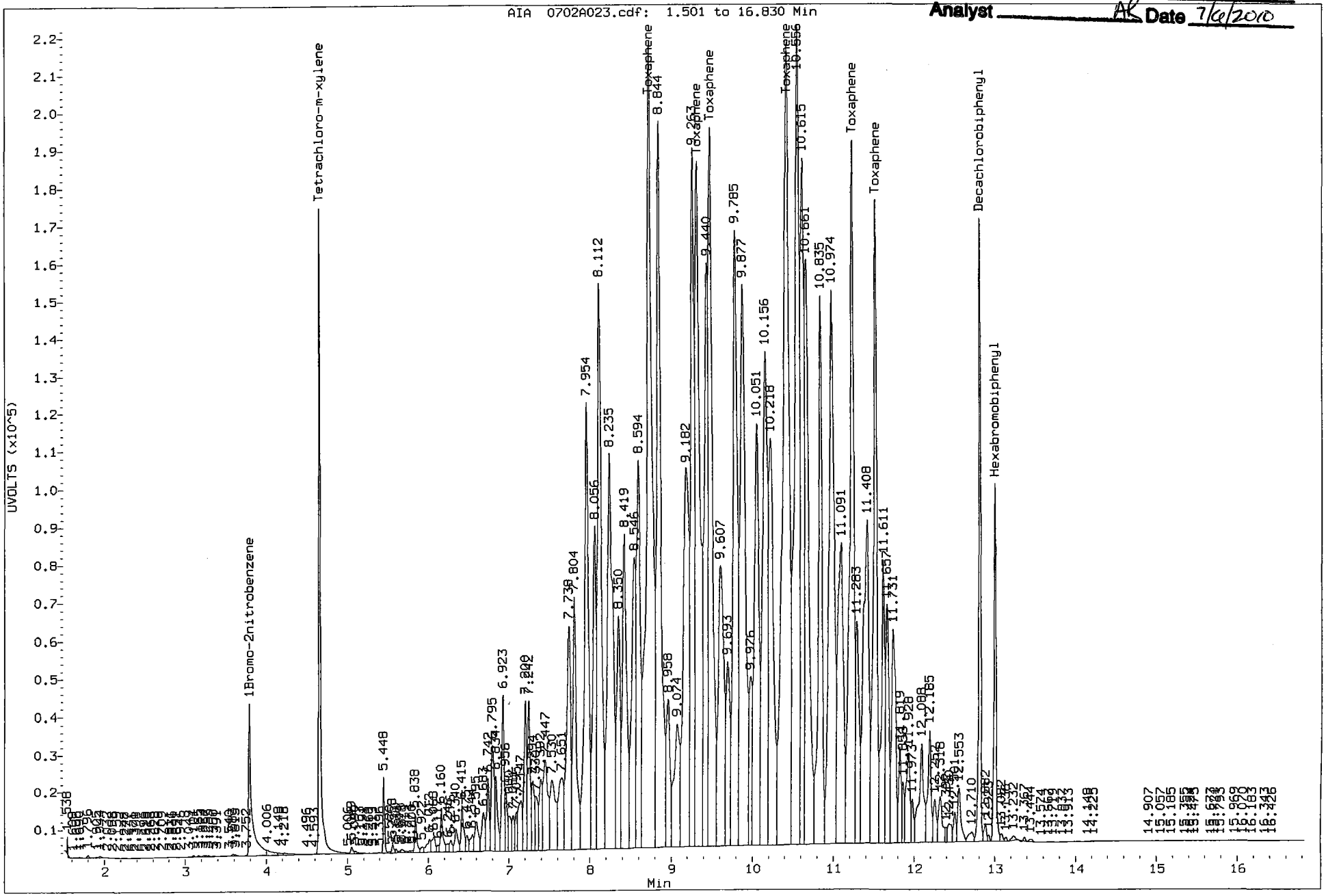
02-JUL-2010 1
CLP2 TOXAPH 10000
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl

Data File: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A023.d/0702A023.cdf
Injection Date: 02-JUL-2010 17:59
Instrument: ecd6.i
Client Sample ID:

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst AK Date 7/6/2010



RE71595

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/tical-1.b/0702A024.d ARI ID: TOXAPH ICV
Data file 2: /chem2/ecd6.i/20100702PEST.b/tical-2.b/0702A024.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 02-JUL-2010 18:20
Compound Sublist: TOXAPH Report Date: 07/06/2010 11:01
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.789	0.000	2268197	3.768	0.008	1474096	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.993	0.000	3286186	13.911	0.001	1561681	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.658	0.004	1453072	4.712	0.007	919093	42.9426	43.2260	0.7	Tetrachloro-m-xylene A B
12.804	0.001	1444465	13.318	0.000	689071	38.4907	38.0208	1.2	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	107.4	108.1	107.4~	150- 0
Decachlorobiphenyl	96.2	95.1	95.1~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

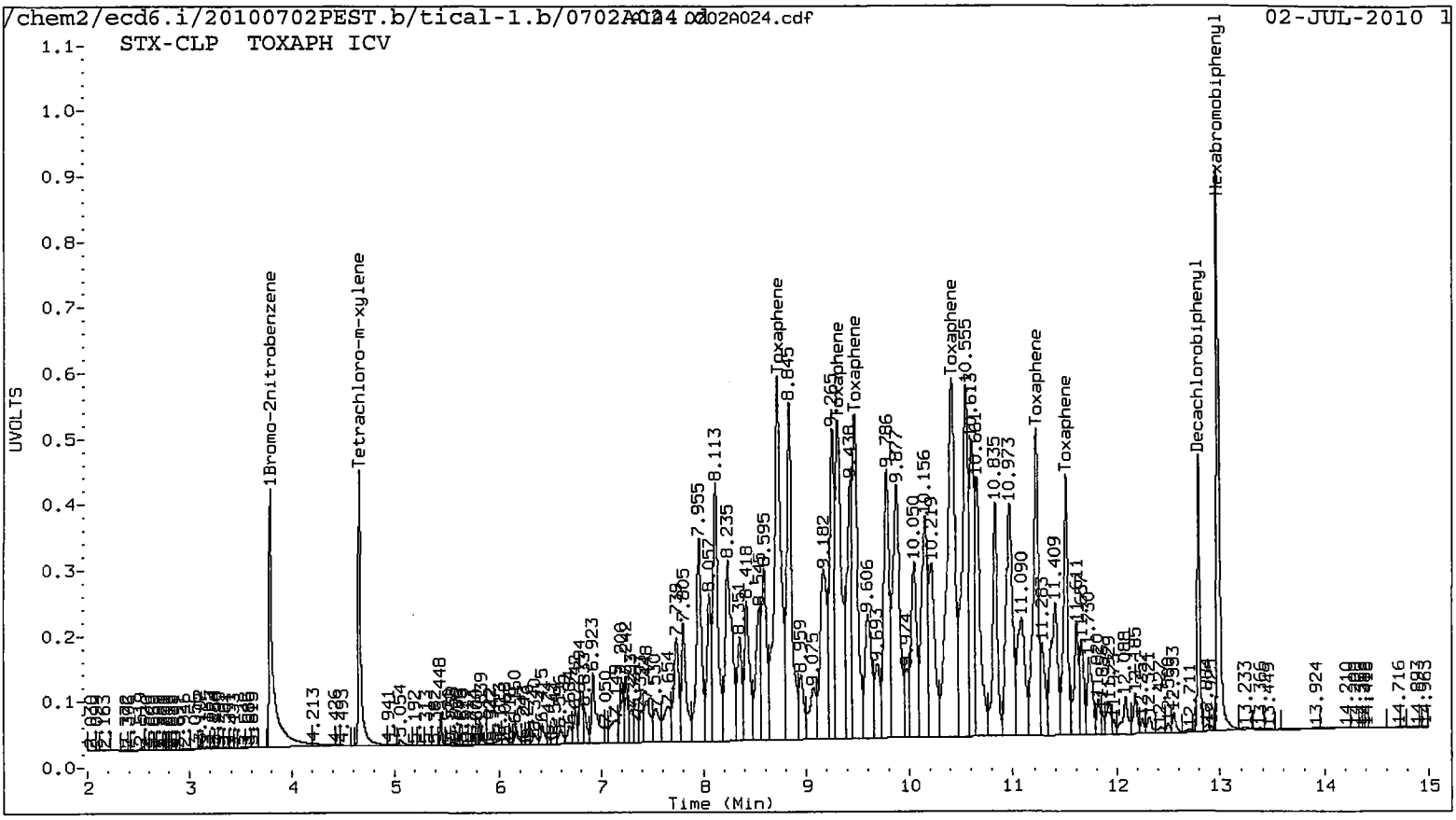
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2820229	2268197	-19.6
Hexabromobiphenyl	3321090	3286186	-1.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1839088	1474096	-19.8
Hexabromobiphenyl	1522181	1561681	2.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col			
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.729	0.001	5365364	2703.446	1	8.384	0.000	1745681	2198.883
Toxaphene	2	9.317	0.000	3948928	2694.139	2	9.110	0.001	3309966	2659.651
Toxaphene	3	9.479	0.000	3697442	2895.793	3	9.747	0.001	3665701	2689.981
Toxaphene	4	10.422	-0.001	5874617	2783.472	4	11.058	0.001	2893534	2641.025
Toxaphene	5	11.227	0.001	3235313	2641.230	5	11.778	0.000	1410303	2657.791
Toxaphene	6	11.514	0.000	2291419	2937.301	NS	---			----
Total STX-CLPAve (6 peaks): 2775.897						Total CLP2Ave (5 peaks): 2569.466				RPD = 8
Corrected Ave (6 peaks): 2775.897						Corrected Ave (5 peaks): 2569.466				RPD = 8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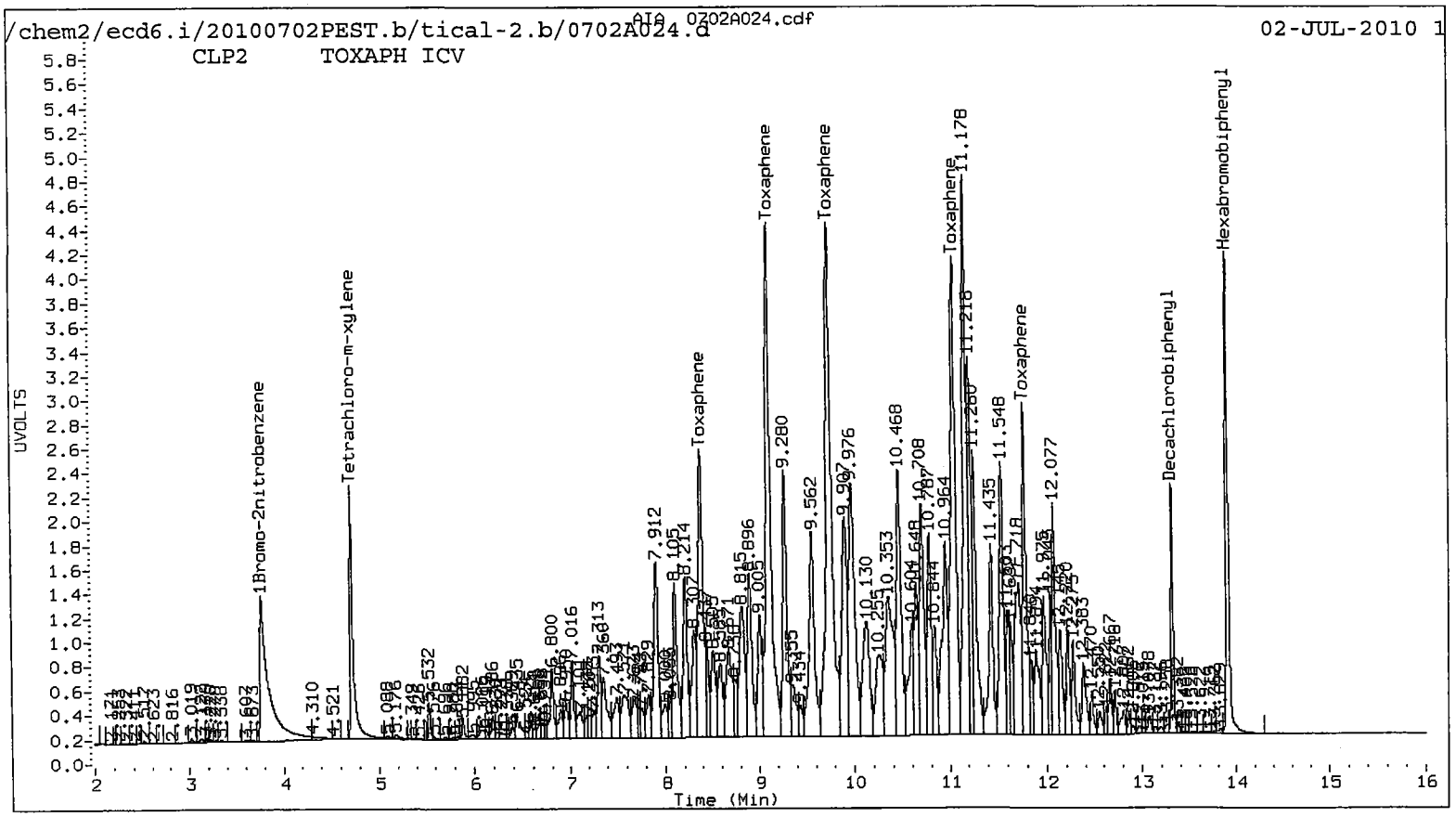
02-JUL-2010 1
STX-CLP TOXAPH ICV
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl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aia 0702A024.cdf
02-JUL-2010 1
CLP2 TOXAPH ICV
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl

Pesticide Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RF71

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: Anchor QEA

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): _____

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 7/2/2010 Analysis Start: 8/10/2010

Endrin/DDT Breakdown <15%? YES / NO / NA
ICal Meets RF & %RSD Criteria? YES / NO
CCal Meets RF & %RSD Criteria? YES / NO
Manual Integrations for ICal? YES / NO
Internal Standard Meets Criteria? YES / NO / NA

Method Blank In Control? YES / NO
LCS/LCSD Recovery In Control? YES / NO
Surrogate Recovery In Control? YES / NO
Manual Integrations for Samples? YES / NO
Special Analysis Criteria Met? YES / NO / NA
VDD

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 8/12/2010

Reviewer: _____ **Date:** 8/13/10

Analytical Resources Inc.: Organics Instrument Log

ECD6 Serial No.: US00007128

Date: 8/10/2010 Analysis: Pest5 Analyst: AR

GC Program: PEST.M Column No: 832564/832791 Column Type: RTXCLP1/2

Instrument Tune (.U or .CT.): NA EM Voltage: NA

Calibration File: PEST20100702.b Curve Date: 7/2/2010 & 7/6/2010

IS/SS	Ical/Ccal	LCS/ICV
1716-3	1688-4, 1743-1, 1743-2, 1744-1, 1737-1 & 1740-1	

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd6.i/20100702PEST.b/0810-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	10-AUG-2010 18:53	0810A001.d	1	TECHLOR	
2	10-AUG-2010 19:14	0810A002.d	1	DS	
3	10-AUG-2010 19:35	0810A003.d	1	DS PRIMER	
4	10-AUG-2010 19:56	0810A004.d	1	DS PRIMER	
5	10-AUG-2010 20:17	0810A005.d	1	TECHLOR	
6	10-AUG-2010 20:38	0810A006.d	1	DS	
7	10-AUG-2010 20:58	0810A007.d	1	IB	
8	10-AUG-2010 21:19	0810A008.d	1	INDAE CCAL	
9	10-AUG-2010 21:40	0810A009.d	1	TOXAPH 2500	
10	10-AUG-2010 22:01	0810A010.d	1	WNDE CCAL	
11	10-AUG-2010 22:22	0810A011.d	1	RH51MBS1	RH51MBS1
12	10-AUG-2010 22:43	0810A012.d	1	RH51LCSS1	RH51LCSS1
13	10-AUG-2010 23:04	0810A013.d	1	RH51LCSDS1	RH51LCSDS1
14	10-AUG-2010 23:25	0810A014.d	5	RH51A	B27-DU3-02-Z
15	10-AUG-2010 23:46	0810A015.d	1	RH51B	B27-DU3-03-Z
16	11-AUG-2010 00:07	0810A016.d	5	RH51C	B27-DU3-01-Z
17	11-AUG-2010 00:27	0810A017.d	5	RH51D	B27-DU3-04-Z
18	11-AUG-2010 00:48	0810A018.d	1	RG53SRM1	SQ-1
19	11-AUG-2010 01:09	0810A019.d	1	RG53A	072710DB-P-01
20	11-AUG-2010 01:30	0810A020.d	5	RG53B	072710DB-P-02
21	11-AUG-2010 01:51	0810A021.d	1	DS PRIMER	
22	11-AUG-2010 02:12	0810A022.d	1	DS PRIMER	
23	11-AUG-2010 02:33	0810A023.d	1	TECHLOR	
24	11-AUG-2010 02:54	0810A024.d	1	DS	
25	11-AUG-2010 03:15	0810A025.d	1	INDAE CCAL	
26	11-AUG-2010 03:35	0810A026.d	1	TOXAPH 2500	
27	11-AUG-2010 03:56	0810A027.d	1	WNDE CCAL	
28	11-AUG-2010 04:17	0810A028.d	5	RG53C	072710DB-P-03
29	11-AUG-2010 04:38	0810A029.d	5	RG53D	072710DB-P-04
30	11-AUG-2010 04:59	0810A030.d	1	RG53E	072710DB-P-05
31	11-AUG-2010 05:20	0810A031.d	1	RG53EMS	072710DB-P-05 MS
32	11-AUG-2010 05:41	0810A032.d	1	RG53EMSD	072710DB-P-05 MSD
33	11-AUG-2010 06:02	0810A033.d	1	RF71MBS1	RF71MBS1
34	11-AUG-2010 06:23	0810A034.d	1	RF71LCSS1	RF71LCSS1
35	11-AUG-2010 06:44	0810A035.d	1	RF71LCSDS1	RF71LCSDS1
36	11-AUG-2010 07:04	0810A036.d	5	RF71A	BW-07-SC-COMP-10072
37	11-AUG-2010 07:25	0810A037.d	1	DS PRIMER	
38	11-AUG-2010 07:46	0810A038.d	1	DS PRIMER	
39	11-AUG-2010 08:07	0810A039.d	1	TECHLOR	
40	11-AUG-2010 08:28	0810A040.d	1	DS	
41	11-AUG-2010 08:49	0810A041.d	1	INDAE CCAL	
42	11-AUG-2010 09:10	0810A042.d	1	TOXAPH 2500	
43	11-AUG-2010 09:31	0810A043.d	1	WNDE CCAL	
44	11-AUG-2010 09:52	0810A044.d	1	RH51A	B27-DU3-02-Z
45	11-AUG-2010 10:13	0810A045.d	1	RH51C	B27-DU3-01-Z
46	11-AUG-2010 10:34	0810A046.d	1	RH51D	B27-DU3-04-Z
47	11-AUG-2010 10:54	0810A047.d	1	RG53B	072710DB-P-02
48	11-AUG-2010 11:15	0810A048.d	1	RG53C	072710DB-P-03
49	11-AUG-2010 11:36	0810A049.d	1	RG53D	072710DB-P-04
50	11-AUG-2010 11:57	0810A050.d	1	RF71A	BW-07-SC-COMP-10072
51	11-AUG-2010 12:18	0810A051.d	1	DS PRIMER	
52	11-AUG-2010 12:39	0810A052.d	1	DS PRIMER	
53	11-AUG-2010 13:00	0810A053.d	1	TECHLOR	
54	11-AUG-2010 13:21	0810A054.d	1	DS	
55	11-AUG-2010 13:42	0810A055.d	1	INDAE CCAL	
56	11-AUG-2010 14:03	0810A056.d	1	TOXAPH 2500	
57	11-AUG-2010 14:24	0810A057.d	1	WNDE CCAL	
58	11-AUG-2010 14:50	0810A058.d	1	HCB RT	
59	11-AUG-2010 15:11	0810A059.d	1	DDT RT	

Maintenance /

AR 8/10/2010

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

AR 8/12/2010

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS ARI Job No.: 20100702PEST

Analysis Date: 11-AUG-2010 02:54 Init. Calib. Date: 02-JUL-2010

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
4,4'-DDE	7.299	29282
Endrin	8.166	3656315
4,4'-DDD	8.255	198488
4,4'-DDT	8.802	3573338
Endrin ketone	11.229	405293
Endrin aldehyde	9.486	163770

DDT Percent Breakdown = 6.0 %
((29282+198488) * 100)/(29282+198488+3573338)

Endrin Percent Breakdown = 13.5 %
((163770+405293) * 100)/(163770+405293+3656315)

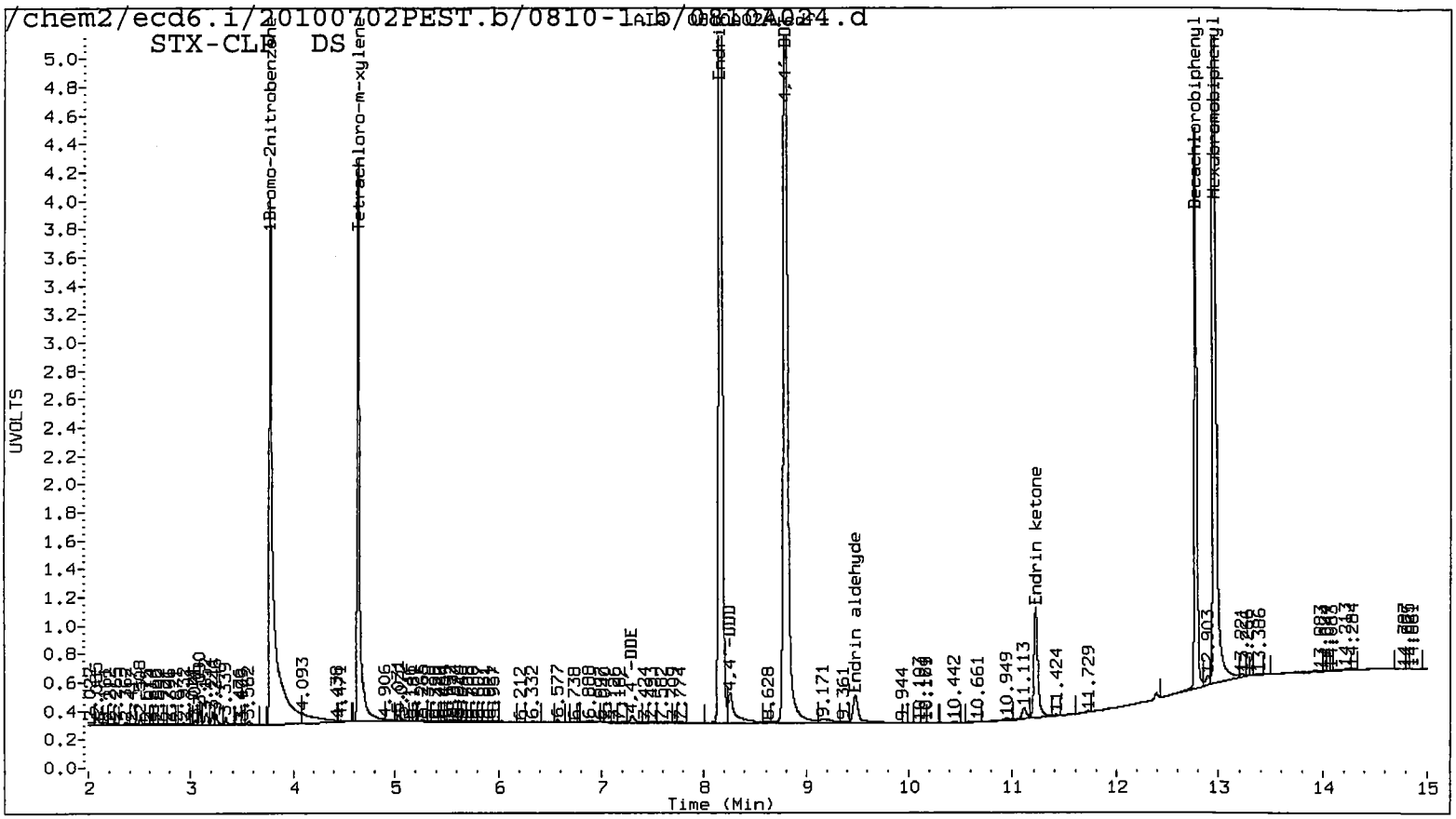
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
4,4'-DDE	7.618	16629
Endrin	8.472	2067476
4,4'-DDD	8.669	100168
4,4'-DDT	9.367	1905114
Endrin ketone	11.615	212975
Endrin aldehyde	9.736	85990

DDT Percent Breakdown = 5.8 %
((16629+100168) * 100)/(16629+100168+1905114)

Endrin Percent Breakdown = 12.6 %
((85990+212975) * 100)/(85990+212975+2067476)

Form VII Pest-1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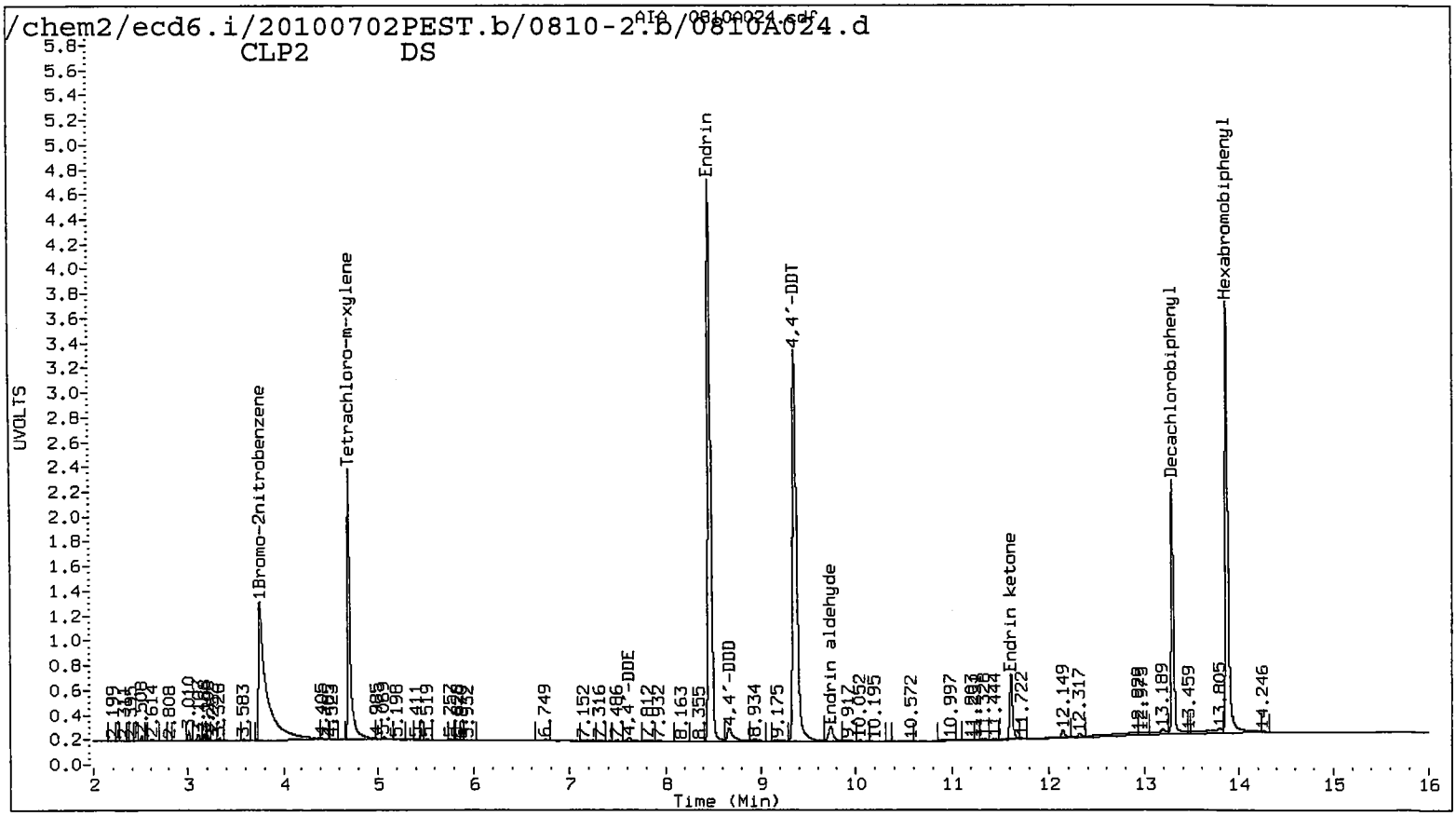
STX-CLP
DS
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Endrin
4,4'-DDT
Decachlorobiphenyl
Hexabromobiphenyl
4,4'-DDE
4,4'-DDD
Endrin aldehyde
Endrin ketone
UVOLTS
Time (Min)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CLP2
DS
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Endrin
4,4'-DDT
Decachlorobiphenyl
Hexabromobiphenyl
4,4'-DDE
4,4'-DDD
Endrin aldehyde
Endrin ketone
UVOLTS
Time (Min)

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A025.d ARI ID: INDAE CCAL
Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A025.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 03:15
Compound Sublist: INDA Report Date: 08/11/2010 17:45
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.771	-0.011	2336766	3.748	-0.006	1385361	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.179	-0.014	1116173	5.263	-0.011	664602	20.6015	22.2241	7.6	alpha-BHC A B
5.540	-0.012	494373	5.651	-0.009	290837	21.4027	22.0371	2.9	beta-BHC A B
5.710	-0.013	917724	5.912	-0.010	492592	19.6035	20.5243	4.6	delta-BHC A B
5.461	-0.014	969380	5.574	-0.011	574200	20.3966	21.8802	7.0	gamma-BHC (Lindane) A B
5.910	-0.016	1026451	5.990	-0.013	596146	20.4642	21.7105	5.9	Heptachlor A B
6.214	-0.018	950590	6.317	-0.014	534956	19.6902	21.6880	9.7	Aldrin A B
6.884	-0.023	952231	6.967	-0.017	542575	19.4134	20.9799	7.8	Heptachlor epoxide b A B
7.414	-0.028	961769	7.509	-0.021	495920	20.4107	22.0568	7.8	Endosulfan I A B
7.774	-0.029	1962569	7.934	-0.023	1122582	40.9739	45.1299	9.7	Dieldrin A B
7.294	-0.023	1663458	7.612	-0.020	980923	38.4751	43.4369	12.1	4,4'-DDE A B
8.166	-0.033	1685796	8.473	-0.028	965110	41.9817	41.8818	0.2	Endrin A B
8.581	-0.036	1697890	8.910	-0.029	1003965	40.4896	41.1805	1.7	Endosulfan II A B
8.251	-0.030	1573960	8.663	-0.025	853797	39.2146	40.1492	2.4	4,4'-DDD A B
10.632	-0.044	1585802	10.555	-0.035	848203	38.8388	37.2991	4.0	Endosulfan sulfate A B
8.802	-0.035	1636638	9.368	-0.033	865925	41.5146	41.0047	1.2	4,4'-DDT A B
9.989	-0.044	4163100	11.169	-0.027	1959667	196.6356	191.3316	2.7	Methoxychlor A B
11.227	-0.036	2052562	11.615	-0.025	1096079	39.4461	40.0448	1.5	Endrin ketone A B
9.484	-0.046	1340336	9.735	-0.035	776286	36.0164	36.2321	0.6	Endrin aldehyde A B
7.042	-0.023	956280	7.200	-0.019	535373	19.7904	21.9748	10.5	gamma-Chlordane A B
7.216	-0.024	928423	7.398	-0.020	527187	19.0684	21.9217	13.9	alpha-Chlordane A B
2.509	-0.012	1438961	2.509	-0.009	874847	19.2334	20.9907	8.7	Hexachlorobutadiene A B
5.029	-0.010	930444	5.144	-0.007	560093	19.7570	22.2778	12.0	Hexachlorobenzene A B
12.969	-0.021	3301821	13.885	-0.022	1556568	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.642	-0.011	1408458	4.697	-0.007	881798	40.4027	44.1283	8.8	Tetrachloro-m-xylene A B
12.781	-0.023	1399108	13.298	-0.020	758145	37.1055	41.9695	12.3	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	101.0	110.3	101.0~	115- 0
Decachlorobiphenyl	92.8	104.9	92.8~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

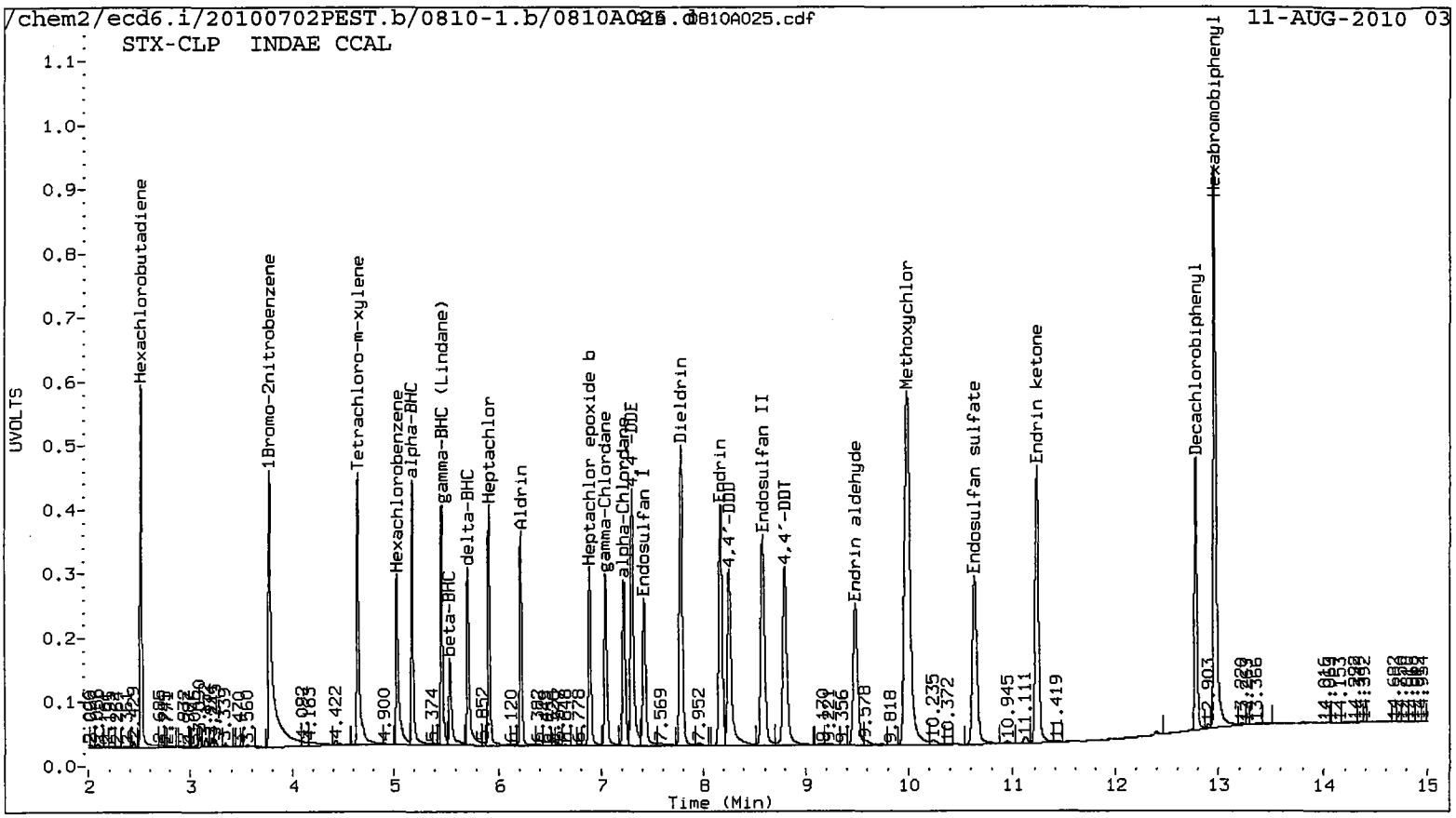
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2336766	-6.4
Hexabromobiphenyl	3575051	3301821	-7.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1385361	-10.2
Hexabromobiphenyl	1636073	1556568	-4.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount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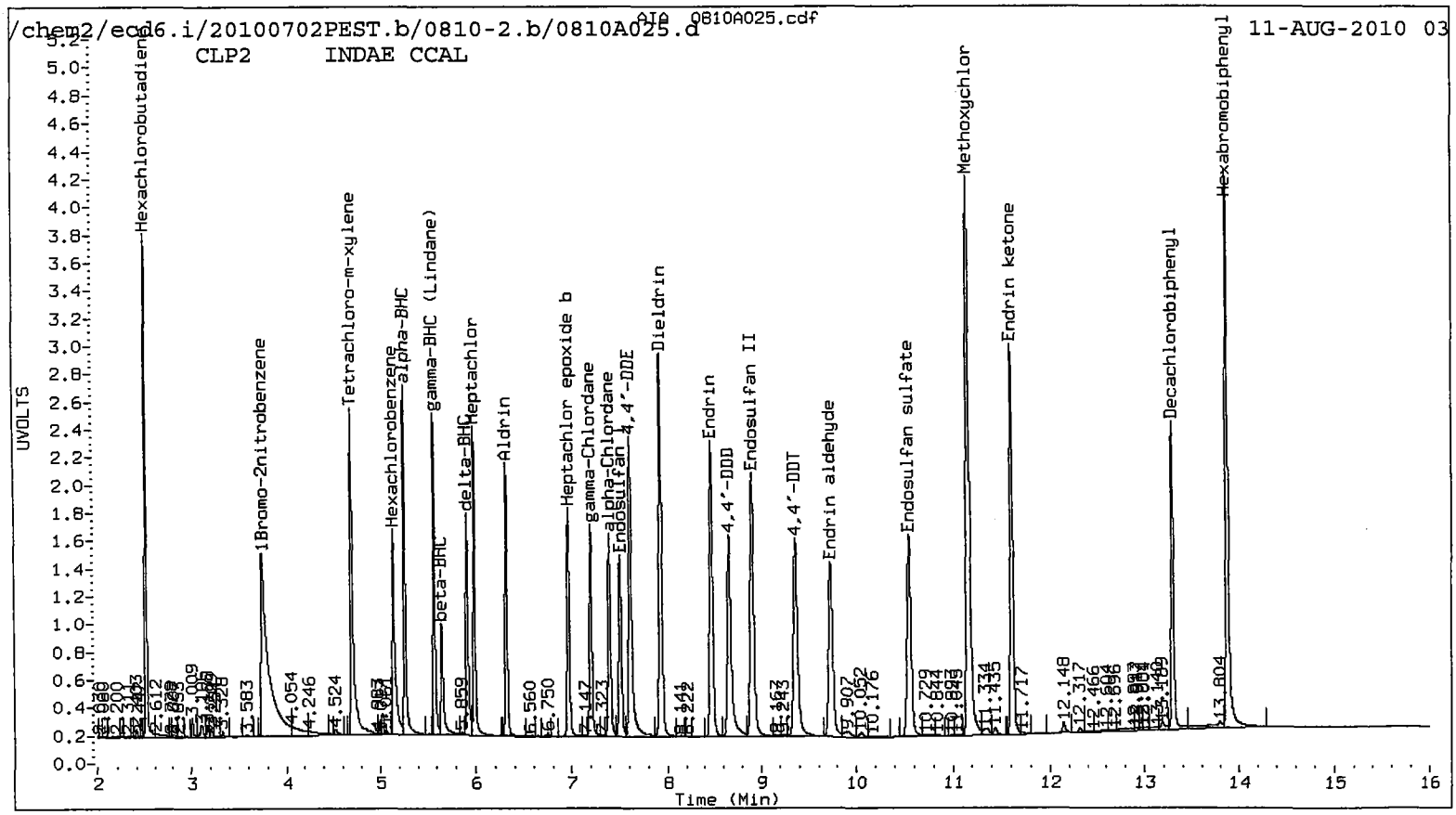
0810A025.cdf
11-AUG-2010 03
STX-CLP INDAE CCAL
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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0810A025.cdf
11-AUG-2010 03
CLP2 INDAE CCAL
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A026.d ARI ID: TOXAPH 2500
Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A026.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 03:35
Compound Sublist: TOXAPH Report Date: 08/11/2010 17:45
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.772	-0.011	2233272	3.750	-0.004	1412386	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.970	-0.020	3153210	13.886	-0.022	1447412	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.643	-0.011	1330859	4.698	-0.007	844297	39.9459	41.4432	3.7	Tetrachloro-m-xylene A B
12.781	-0.022	1409218	13.298	-0.020	703143	39.1351	41.8602	6.7	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	99.9	103.6	99.9~	150- 0
Decachlorobiphenyl	97.8	104.7	97.8~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2233272	-10.6
Hexabromobiphenyl	3575051	3153210	-11.8

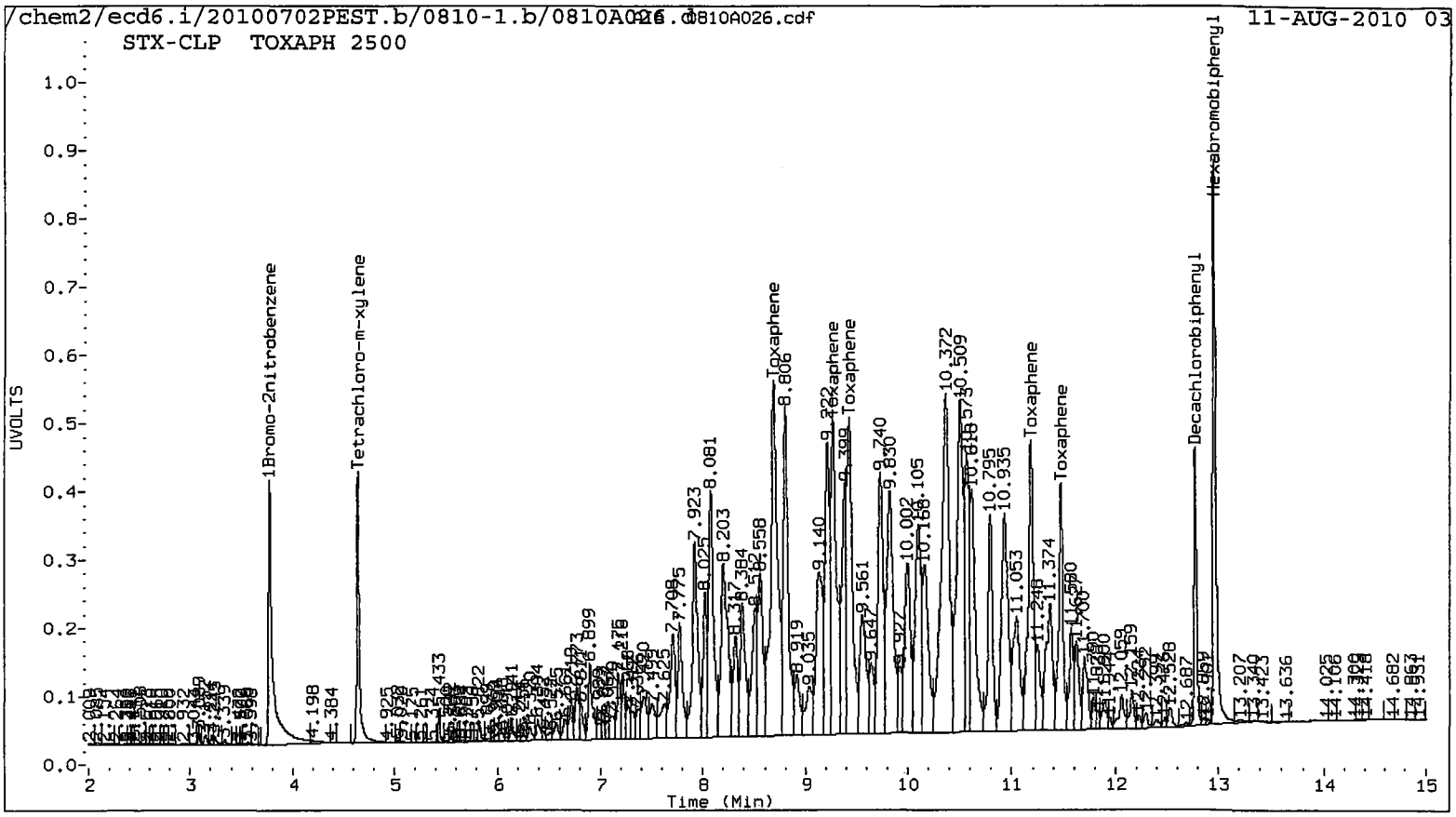
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1412386	-8.4
Hexabromobiphenyl	1636073	1447412	-11.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col			
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	8.690	-0.038	4974387	2612.146	1	8.357	-0.027	1924859	2615.992
Toxaphene	2	9.277	-0.040	3635833	2585.139	2	9.077	-0.032	3118937	2704.007
Toxaphene	3	9.436	-0.043	3355488	2738.805	3	9.710	-0.036	3376750	2673.567
Toxaphene	4	---			0.000	4	11.029	-0.029	2679578	2638.824
Toxaphene	5	11.191	-0.004	2941692	2502.801	5	11.754	-0.024	1274525	2591.534
Toxaphene	6	11.482	-0.032	2095283	2799.148	NS	---			----
Total STX-CLPAve (5 peaks): 2647.608						Total CLP2Ave (5 peaks): 2644.785				RPD = 0
Corrected Ave (5 peaks): 2647.608						Corrected Ave (5 peaks): 2644.785				RPD = 0

RT shift >0.5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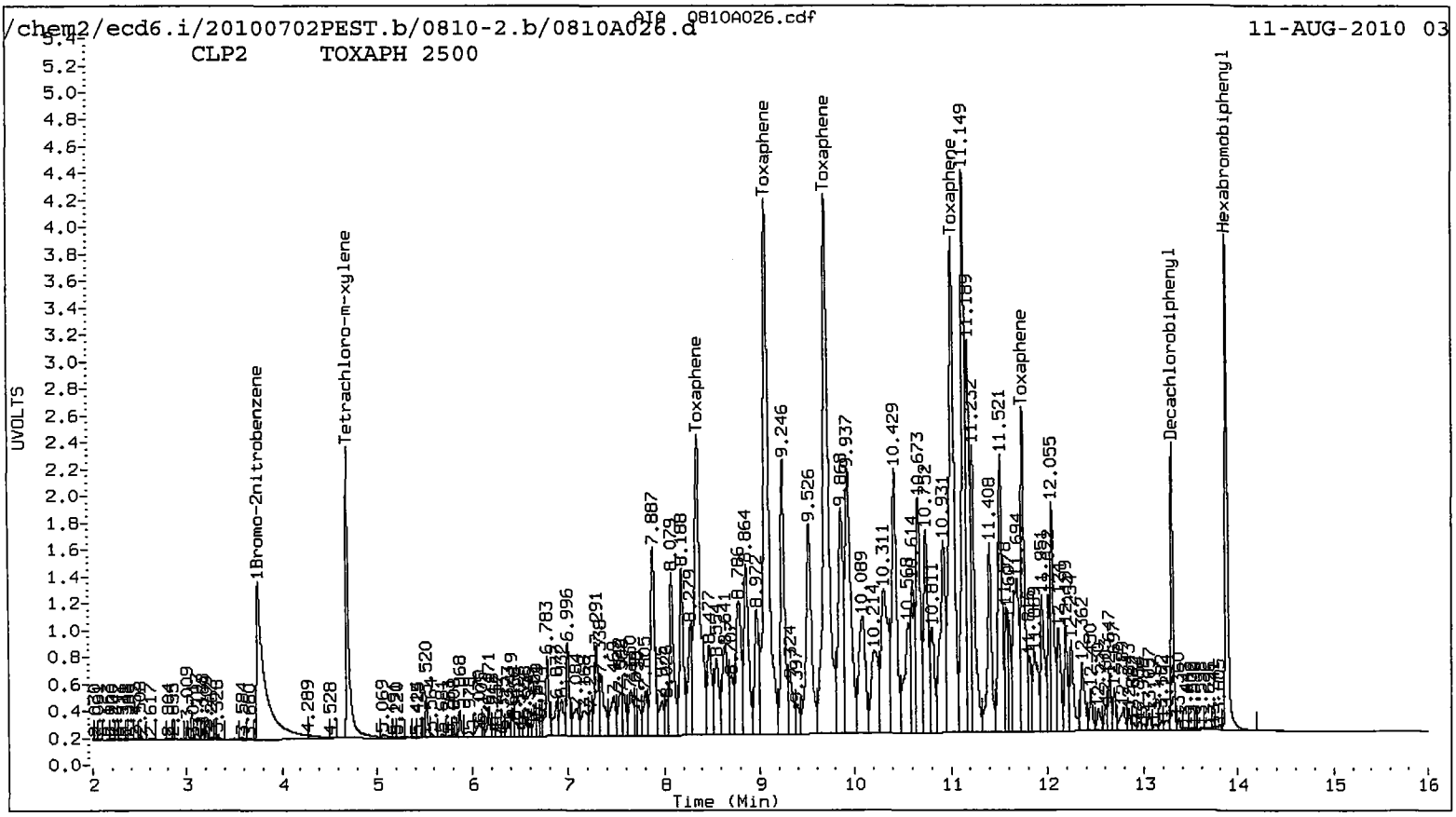
11-AUG-2010 03
STX-CLP TOXAPH 2500
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl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0810A026.cdf
11-AUG-2010 03
CLP2 TOXAPH 2500
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Toxaphene
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A027.d ARI ID: WNDE CCAL
Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A027.d Client ID:
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 03:56
Compound Sublist: WND Report Date: 08/11/2010 17:45
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
1.831	-0.014	283	1.820	-0.006	8378	0.0000	0.0000	---	Hexachloroethane
3.772	-0.011	2253029	3.751	-0.003	1482662	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
6.762	-0.020	1458845	6.848	-0.016	796492	38.4109	38.7516	0.9	Oxychlordane A B
6.850	-0.018	1169313	7.165	-0.016	647117	37.9074	38.2354	0.9	2,4-DDE A B
7.189	-0.023	1869220	7.324	-0.019	1026346	42.0893	41.1199	2.3	trans-Nonachlor A B
7.546	-0.022	1054074	7.942	-0.020	626387	41.1199	39.8348	3.2	2,4-DDD A B
7.953	-0.026	1272550	8.496	-0.026	655782	44.3425	40.5208	9.0	2,4-DDT A B
8.215	-0.029	2116664	8.606	-0.028	1154021	43.5429	41.7827	4.1	cis-Nonachlor A B
10.375	-0.044	1512347	11.463	-0.024	723982	40.5220	39.2515	3.2	Mirex A B
12.970	-0.020	3188811	13.886	-0.022	1521838	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.642	-0.011	1373983	4.698	-0.007	860153	40.8786	40.2203	1.6	Tetrachloro-m-xylene A B
12.781	-0.022	1365139	13.299	-0.019	746569	37.4877	42.2719	12.0	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	102.2	100.6	100.6~	150- 0
Decachlorobiphenyl	93.7	105.7	93.7~	150- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

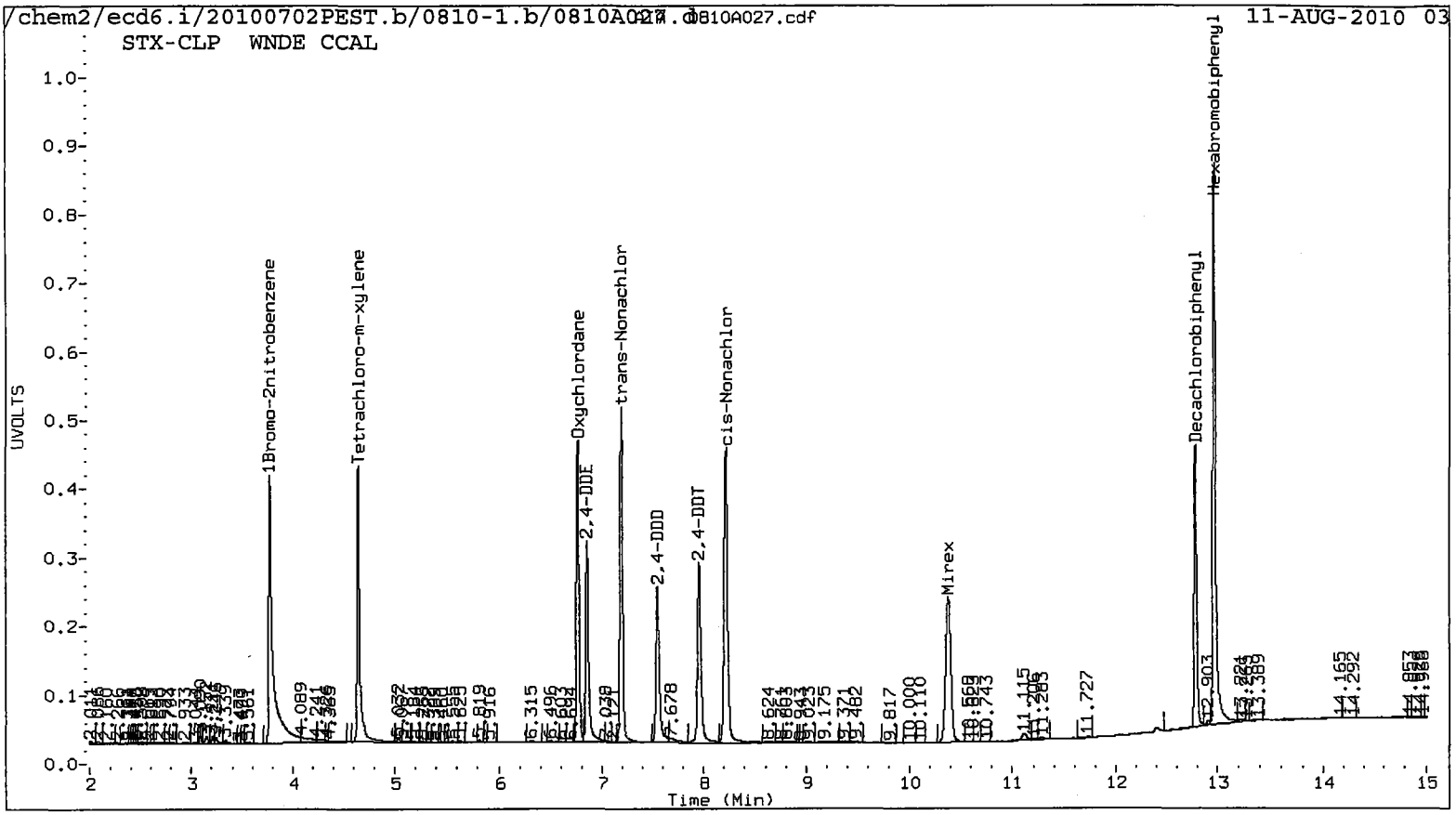
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2253029	-9.8
Hexabromobiphenyl	3575051	3188811	-10.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1482662	-3.9
Hexabromobiphenyl	1636073	1521838	-7.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	STX-CLP Col Peak#	RT	Shift	Height	Amount	CLP2 Col Peak#	RT	Shift	Height	Amount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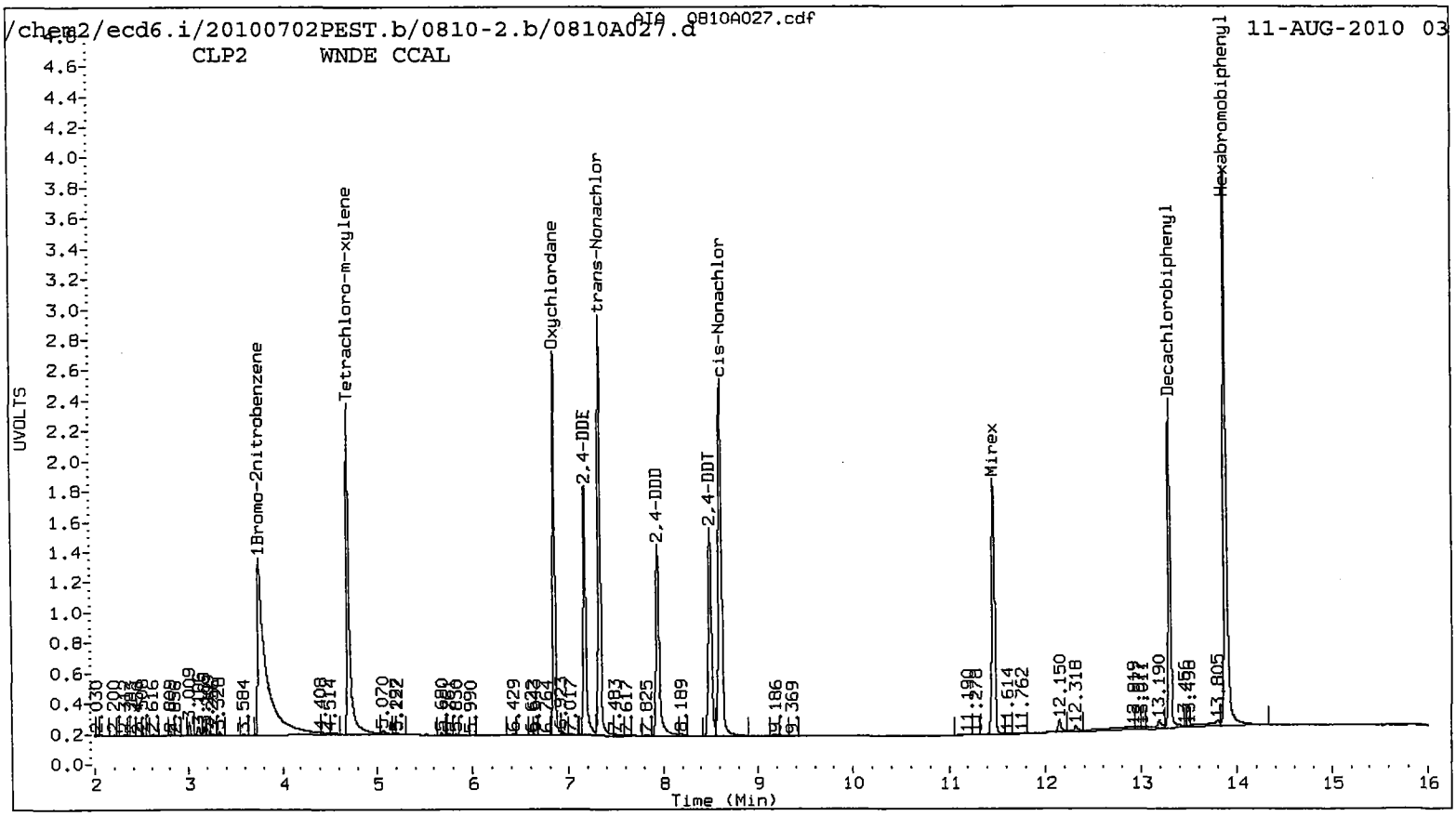
0810A027.cdf
11-AUG-2010 03
STX-CLP WNDE CCAL
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Oxychlordane
2,4-DDE
trans-Nonachlor
2,4-DDD
2,4-DDT
cis-Nonachlor
Mirex
Decachlorobiphenyl
Hexabromobiphenyl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0810A027.cdf
11-AUG-2010 03
CLP2 WNDE CCAL
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Oxychlordane
2,4-DDE
trans-Nonachlor
2,4-DDD
2,4-DDT
cis-Nonachlor
Mirex
Decachlorobiphenyl
Hexabromobiphenyl

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 8/12/2010

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A033.d ARI ID: RF71MBS1
Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A033.d Client ID: RF71MBS1
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 06:02
Compound Sublist: wpest Report Date: 08/12/2010 16:30
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.769	-0.013	2563105	3.743	-0.011	1337701	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.186	-0.006	2384	5.225	-0.048	4635	0.0401	0.1605	120.0*	alpha-BHC A B
5.556	0.004	5415	5.688	0.028	4062	0.2137	0.3188	39.5	beta-BHC A B
5.707	-0.016	18373	5.908	-0.014	84334	0.3578	3.6391	164.2*	delta-BHC A B
5.459	-0.016	2780	----			0.0533	0.0000	---	gamma-BHC (Lindane)
5.910	-0.016	1616	5.985	-0.018	2292	0.0294	0.0865	98.6*	Heptachlor A B
6.220	-0.011	4567	6.324	-0.007	1658	0.0863	0.0696	21.3	Aldrin A B
6.894	-0.013	1262	6.937	-0.047	3154	0.0235	0.1263	137.4*	Heptachlor epoxide b A B
7.435	-0.007	5941	----			0.1149	0.0000	---	Endosulfan I
7.754	-0.049	2390	----			0.0455	0.0000	---	Dieldrin
7.298	-0.019	1128	----			0.0238	0.0000	---	4,4'-DDE
----			----			0.0000	0.0000	---	Endrin
----			----			0.0000	0.0000	---	Endosulfan II
----			----			0.0000	0.0000	---	4,4'-DDD
----			10.563	-0.027	7967	0.0000	0.3729	---	Endosulfan sulfate
8.818	-0.018	6480	----			0.1672	0.0000	---	4,4'-DDT
----			11.197	0.001	18107	0.0000	1.8817	---	Methoxychlor
----			----			0.0000	0.0000	---	Endrin ketone
9.511	-0.019	1177	9.801	0.031	8007	0.0322	0.3978	170.1*	Endrin aldehyde A B
7.032	-0.033	54049	----			1.0198	0.0000	---	gamma-Chlordane
----			----			0.0000	0.0000	---	alpha-Chlordane
2.527	0.006	28114	2.503	-0.015	23586	0.3426	0.5861	52.4*	Hexachlorobutadiene A B
5.032	-0.008	14317	5.130	-0.021	4972	0.2772	0.2048	30.0	Hexachlorobenzene A B
6.782	0.000	4763	----			0.1232	0.0000	---	Oxychlordane
6.828	-0.040	515	7.151	-0.029	23551	0.0164	1.5424	195.8*	2,4-DDE A B
7.192	-0.020	2534	----			0.0560	0.0000	---	trans-Nonachlor
7.527	-0.042	228	----			0.0087	0.0000	---	2,4-DDD
----			----			0.0000	0.0000	---	2,4-DDT
----			----			0.0000	0.0000	---	cis-Nonachlor
----			11.472	-0.015	7244	0.0000	0.4087	---	Mirex
12.969	-0.022	3246727	13.884	-0.023	1462390	80.0000	80.0000	0.0	Hexabromobiphenyl A B
1.820	-0.025	209	1.818	-0.008	2245	0.0000	0.0000	---	Hexachloroethane
4.641	-0.012	1047535	4.696	-0.009	499903	27.3958	25.9083	5.6	Tetrachloro-m-xylene A B
12.781	-0.023	1307532	13.298	-0.020	679896	35.2653	40.0617	12.7	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	68.5	64.8	64.8	29-110
Decachlorobiphenyl	88.2	100.2	88.2	18-151

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2563105	2.7
Hexabromobiphenyl	3575051	3246727	-9.2

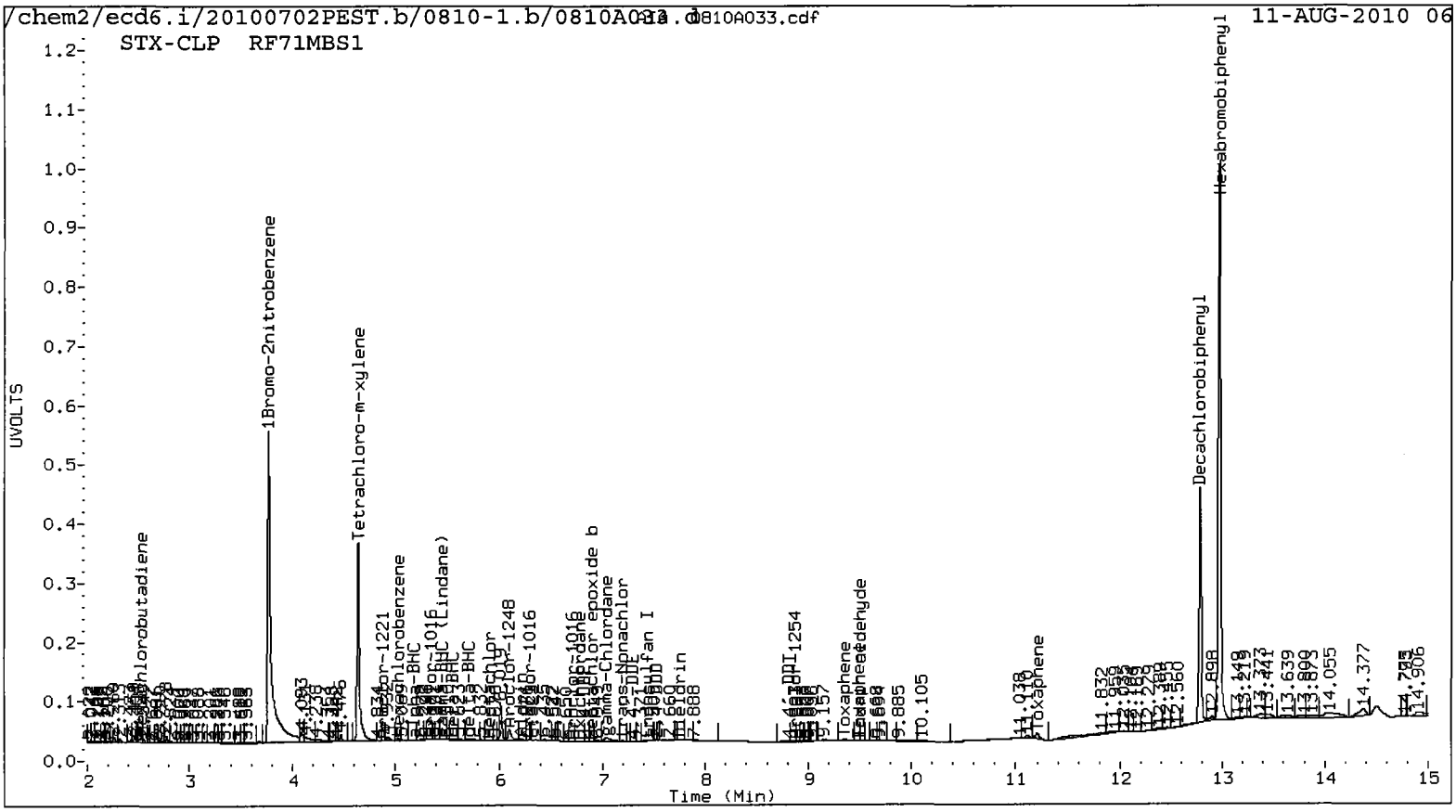
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1337701	-13.3
Hexabromobiphenyl	1636073	1462390	-10.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col			
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	---			0.000	1	---			0.000
Toxaphene	2	9.357	0.040	16943	11.700	2	---			0.000
Toxaphene	3	9.499	0.020	1900	1.507	3	---			0.000
Toxaphene	4	---			0.000	4	---			0.000
Toxaphene	5	11.201	0.006	43680	36.093	5	---			0.000
Toxaphene	6	---			0.000	NS	---			----
Total STX-CLPAve (3 peaks): 16.433						CLP2Ave: <3 Quant Peaks				
Aroclor-1016	1	---			0.000	1	---			0.000
Aroclor-1016	2	---			0.000	2	---			0.000
Aroclor-1016	3	---			0.000	3	---			0.000
Aroclor-1016	4	---			0.000	4	---			0.000
Aroclor-1016	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.000	1	---			0.000
Aroclor-1221	2	---			0.000	2	---			0.000
Aroclor-1221	3	---			0.000	3	---			0.000
Aroclor-1221	4	---			0.000	4	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.000	1	---			0.000
Aroclor-1232	2	---			0.000	2	---			0.000
Aroclor-1232	3	---			0.000	3	---			0.000
Aroclor-1232	4	---			0.000	4	---			0.000
Aroclor-1232	5	---			0.000	5	---			0.000
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.000	1	---			0.000
Aroclor-1242	2	---			0.000	2	---			0.000
Aroclor-1242	3	---			0.000	3	---			0.000
Aroclor-1242	4	---			0.000	4	---			0.000
Aroclor-1242	5	---			0.000	5	---			0.000
Aroclor-1242	6	---			0.000	NS	---			----
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.000	1	---			0.000
Aroclor-1248	2	---			0.000	2	---			0.000
Aroclor-1248	3	---			0.000	3	---			0.000
Aroclor-1248	4	---			0.000	4	---			0.000

Aroclor-1248	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1254	1	---	0.000	1	---	0.000
Aroclor-1254	2	---	0.000	2	---	0.000
Aroclor-1254	3	---	0.000	3	---	0.000
Aroclor-1254	4	---	0.000	4	---	0.000
Aroclor-1254	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1260	1	---	0.000	1	---	0.000
Aroclor-1260	2	---	0.000	2	---	0.000
Aroclor-1260	3	---	0.000	3	---	0.000
Aroclor-1260	4	---	0.000	4	---	0.000
Aroclor-1260	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1262	1	---	0.000	1	---	0.000
Aroclor-1262	2	---	0.000	2	---	0.000
Aroclor-1262	3	---	0.000	3	---	0.000
Aroclor-1262	4	---	0.000	4	---	0.000
Aroclor-1262	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1268	1	---	0.000	1	---	0.000
Aroclor-1268	2	---	0.000	2	---	0.000
Aroclor-1268	3	---	0.000	3	---	0.000
Aroclor-1268	4	---	0.000	4	---	0.000
Aroclor-1268	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			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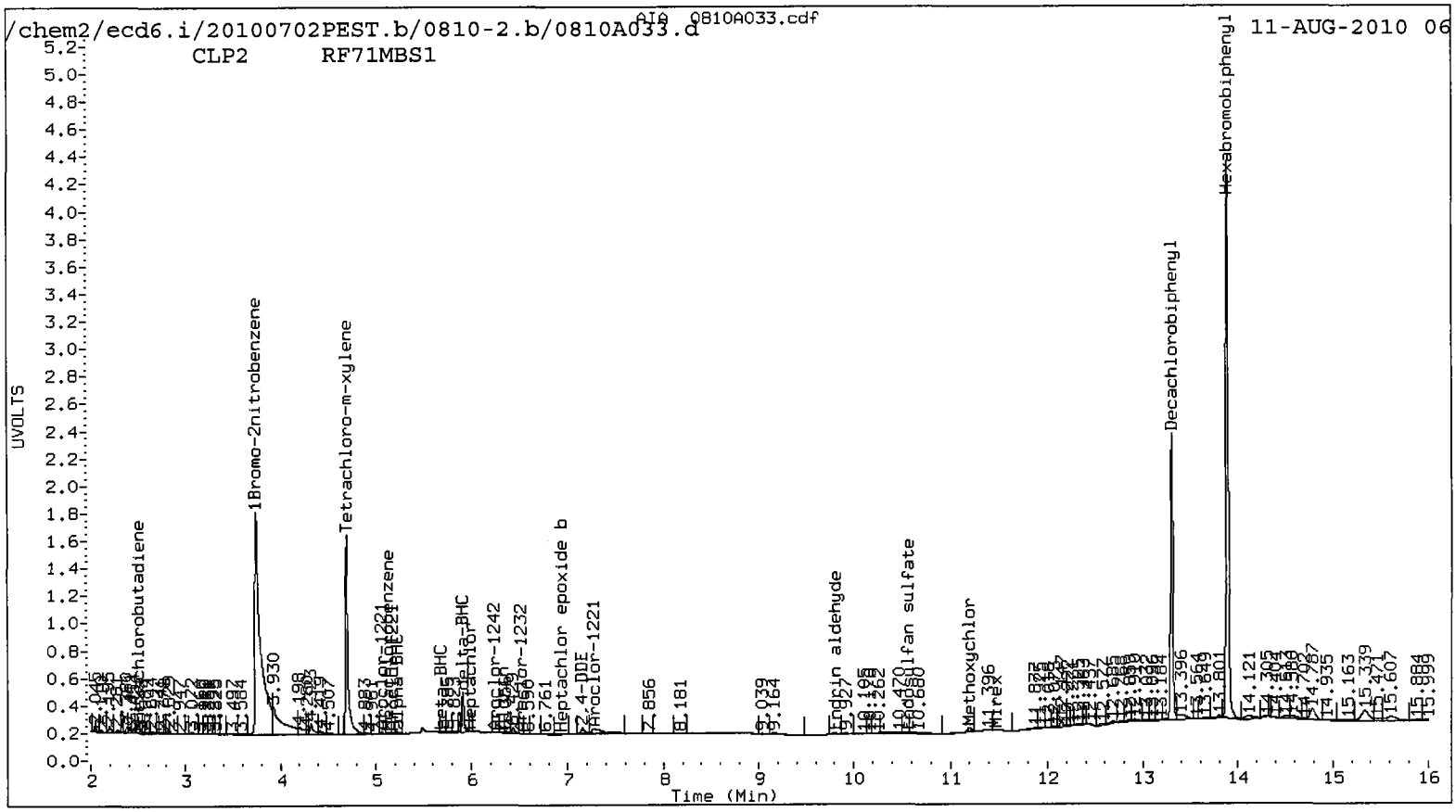
0810A033.cdf
11-AUG-2010 06
STX-CLP RF71MBS1
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Decachlorobiphenyl
Hexabromobiphenyl
Toxaphene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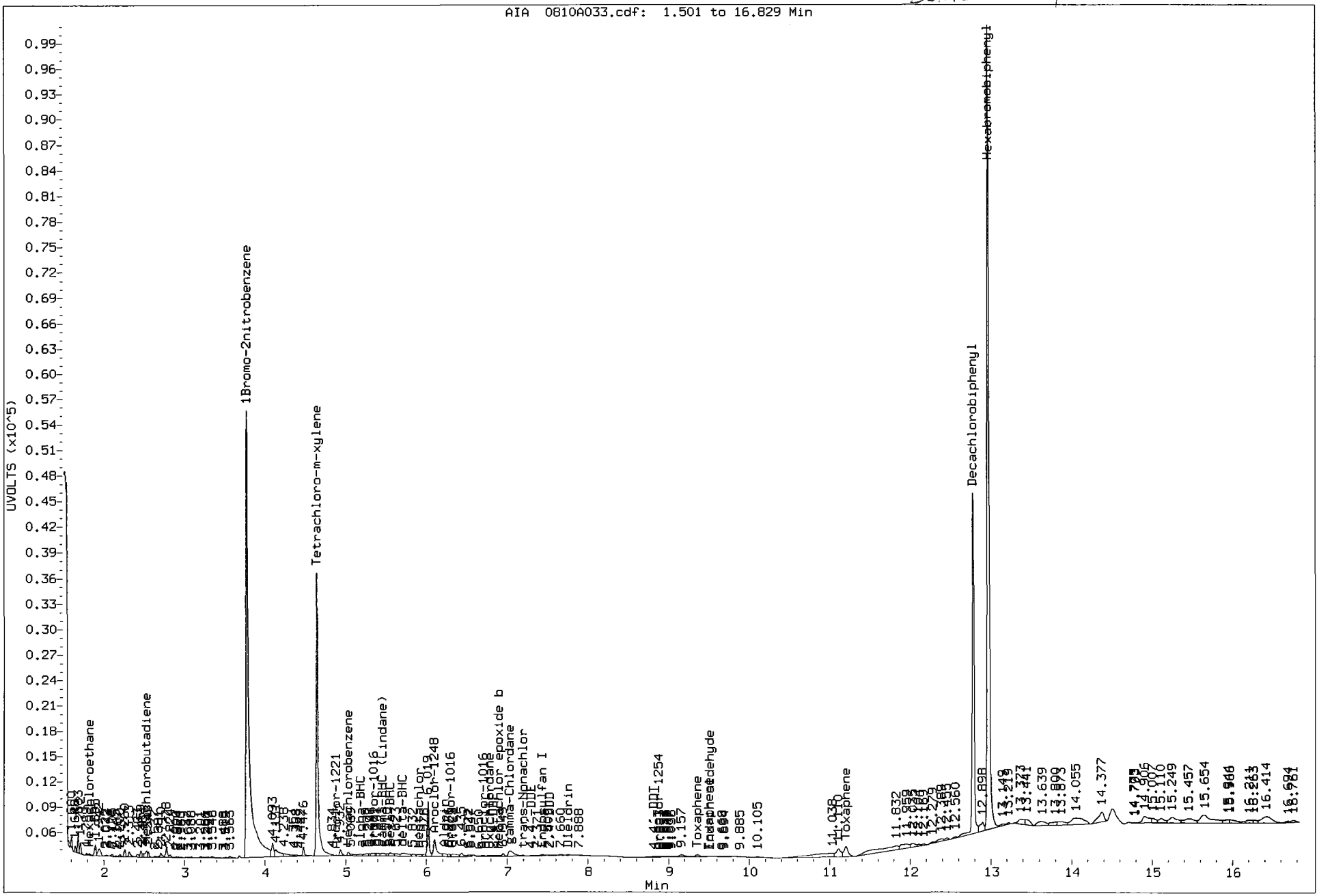
0810A033.cdf
11-AUG-2010 06
CLP2 RF71MBS1
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Decachlorobiphenyl
Hexabromobiphenyl
Heptachlor epoxide b
Endrin aldehyde
Methoxychlor

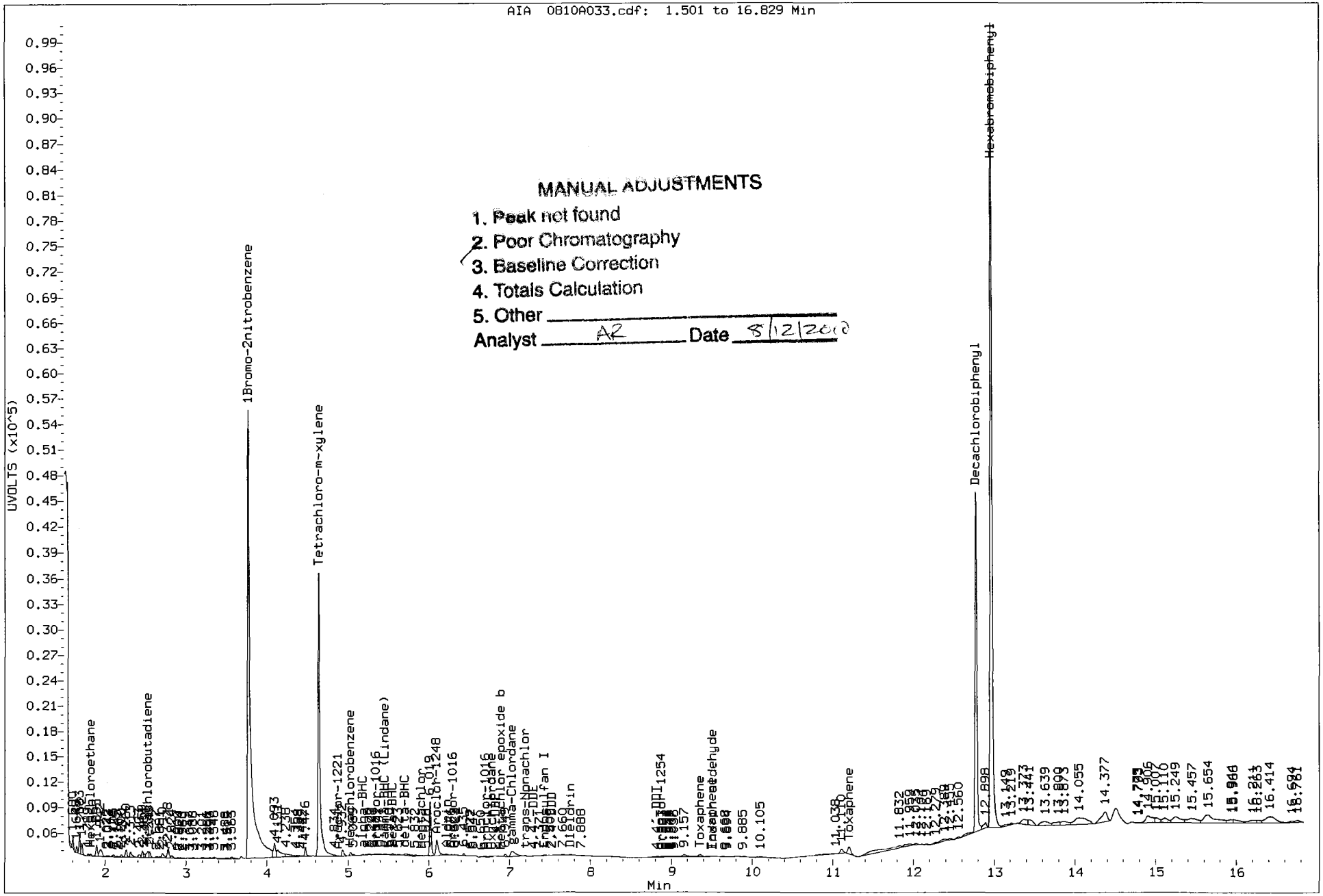
Data File: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A033.d/0810A033.cdf
Injection Date: 11-AUG-2010 06:02
Instrument: ecd6.i
Client Sample ID: RF71MBS1

Before AR 5/12/2011



RF71 0081

Data File: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A033.d/0810A033.cdf
Injection Date: 11-AUG-2010 06:02
Instrument: ecd6.i
Client Sample ID: RF71MBS1



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Injection Date: 11-AUG-2010 06:02
Instrument: ecd6.i
Client Sample ID: RF71MBS1

AIA 0810A033.cdf: 1.501 to 16.829 Min

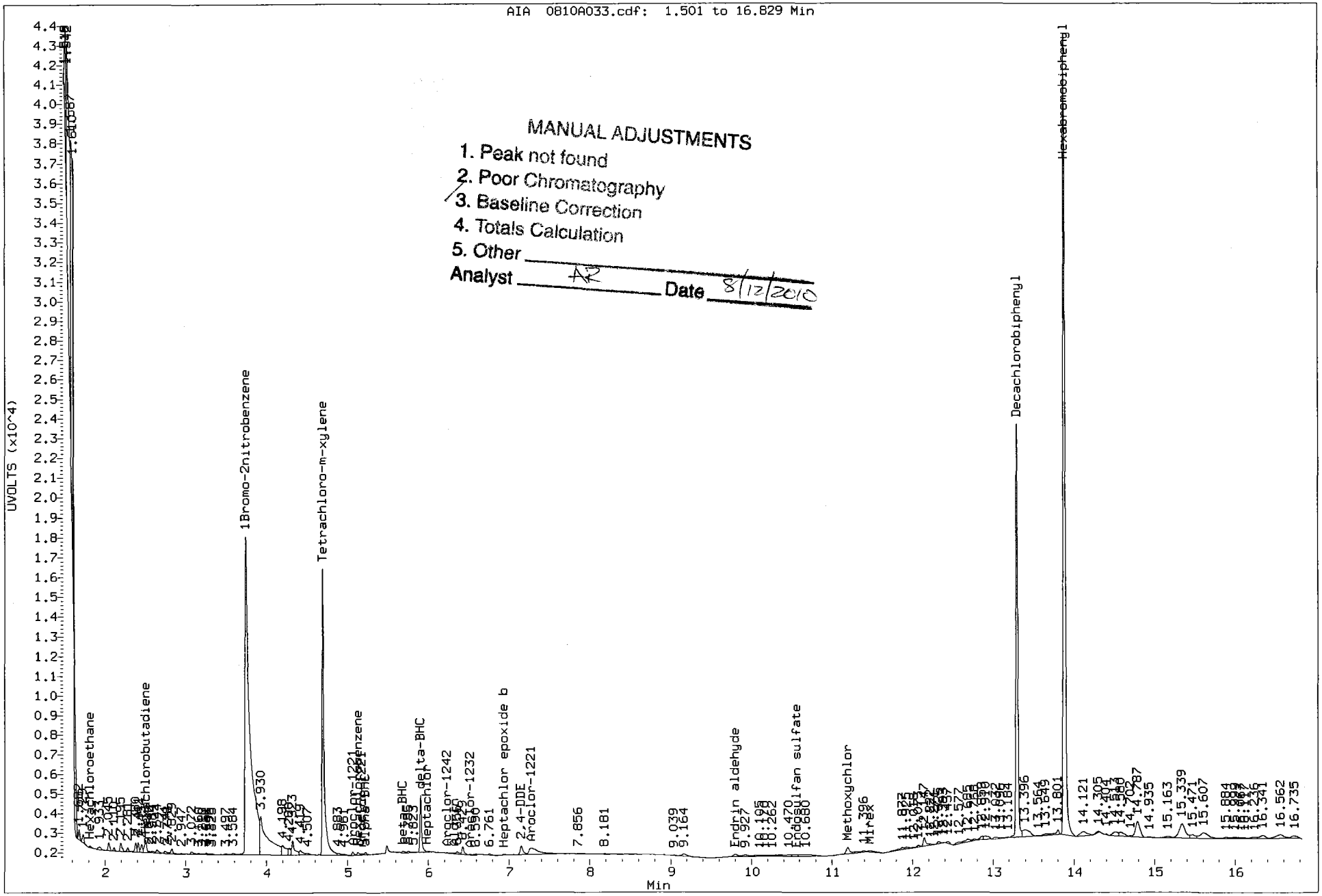
UVOLTS (x10^4)

Min

Hexachloroethane
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Decachlorobiphenyl
Hexabromobiphenyl
Methoxychlor
Endrin aldehyde
Endosulfan sulfate
Aroclor-1221
Heptachlor epoxide b
Aroclor-1232
Aroclor-1242
Heptachlor
delta-BHC
beta-BHC
alpha-BHC

Before AB 8/12/2010

Data File: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A033.d/0810A033.cdf
Injection Date: 11-AUG-2010 06:02
Instrument: ecd6.i
Client Sample ID: RF71MBS1



RF71 : 69570

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

+R 8/12/2010

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A034.d ARI ID: RF71LCSS1
Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A034.d Client ID: RF71LCSS1
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 06:23
Compound Sublist: wpest Report Date: 08/12/2010 16:30
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
Operator: ar Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.770	-0.013	2477597	3.743	-0.011	1363133	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.178	-0.014	835474	5.262	-0.012	474553	14.5441	16.1277	10.3	alpha-BHC A B
5.539	-0.014	428612	5.650	-0.010	218205	17.5009	16.8033	4.1	beta-BHC A B
5.709	-0.015	534568	5.910	-0.012	349438	10.7698	14.7971	31.5	delta-BHC A B
5.461	-0.015	807709	5.573	-0.012	452105	16.0289	17.5086	8.8	gamma-BHC (Lindane) A B
5.909	-0.016	820740	5.990	-0.013	451406	15.4329	16.7074	7.9	Heptachlor A B
6.214	-0.018	763604	6.317	-0.014	412508	14.9180	16.9965	13.0	Aldrin A B
6.884	-0.023	833375	6.967	-0.017	465159	16.0245	18.2798	13.1	Heptachlor epoxide b A B
7.414	-0.027	868127	7.509	-0.021	437154	17.3762	19.7602	12.8	Endosulfan I A B
7.774	-0.029	1766672	7.934	-0.023	971825	34.7875	39.7063	13.2	Dieldrin A B
7.293	-0.024	1570449	7.610	-0.022	877178	34.2592	39.4763	14.2	4,4'-DDE A B
8.166	-0.033	1549064	8.473	-0.028	869054	36.5614	37.8807	3.5	Endrin A B
8.581	-0.036	1523953	8.910	-0.029	872995	34.4432	35.9674	4.3	Endosulfan II A B
8.249	-0.032	1455369	8.660	-0.028	761632	34.3657	35.9741	4.6	4,4'-DDD A B
10.633	-0.044	1272730	10.553	-0.036	682121	29.5428	30.1289	2.0	Endosulfan sulfate A B
8.800	-0.036	1400081	9.367	-0.034	715600	33.6589	34.0367	1.1	4,4'-DDT A B
9.987	-0.045	3679131	11.168	-0.027	1747465	164.6982	171.3704	4.0	Methoxychlor A B
11.227	-0.037	1808493	11.614	-0.026	949649	32.9399	34.8490	5.6	Endrin ketone A B
9.484	-0.046	793254	9.734	-0.036	439234	20.2021	20.5916	1.9	Endrin aldehyde A B
7.042	-0.023	923339	7.199	-0.020	468429	18.0225	19.5405	8.1	gamma-Chlordane A B
7.216	-0.024	835436	7.398	-0.020	468769	16.1832	19.8105	20.2	alpha-Chlordane A B
2.508	-0.013	946214	2.508	-0.010	561306	11.9284	13.6874	13.7	Hexachlorobutadiene A B
5.028	-0.012	757155	5.142	-0.009	431845	15.1635	17.4568	14.1	Hexachlorobenzene A B
6.779	-0.003	15007	6.815	-0.049	4038	~~0.3617~~	0.2137	~~51.4*~~	Oxychlordane A B
----			----			0.0000	0.0000	---	2,4-DDE
----			----			0.0000	0.0000	---	trans-Nonachlor
----			----			0.0000	0.0000 N	---	2,4-DDD
7.952	-0.027	31087	----			0.9915	0.0000	---	2,4-DDT
----			----			0.0000	0.0000	---	cis-Nonachlor
10.438	0.019	3109	----			~~0.0763~~	~~0.0000~~	---	Mirex
12.968	-0.022	3483816	13.885	-0.022	1549692	80.0000	80.0000	0.0	Hexabromobiphenyl A B
1.821	-0.024	227	1.818	-0.008	8128	~~0.0000~~	~~0.0000~~ N	---	Hexachloroethane
4.642	-0.012	924692	4.696	-0.009	587367	25.0178	29.8733	17.7	Tetrachloro-m-xylene A B
12.781	-0.023	1310779	13.298	-0.020	666321	32.9469	37.0500	11.7	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	62.5	74.7	62.5	29-110
Decachlorobiphenyl	82.4	92.6	82.4	18-151

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2477597	-0.8
Hexabromobiphenyl	3575051	3483816	-2.6

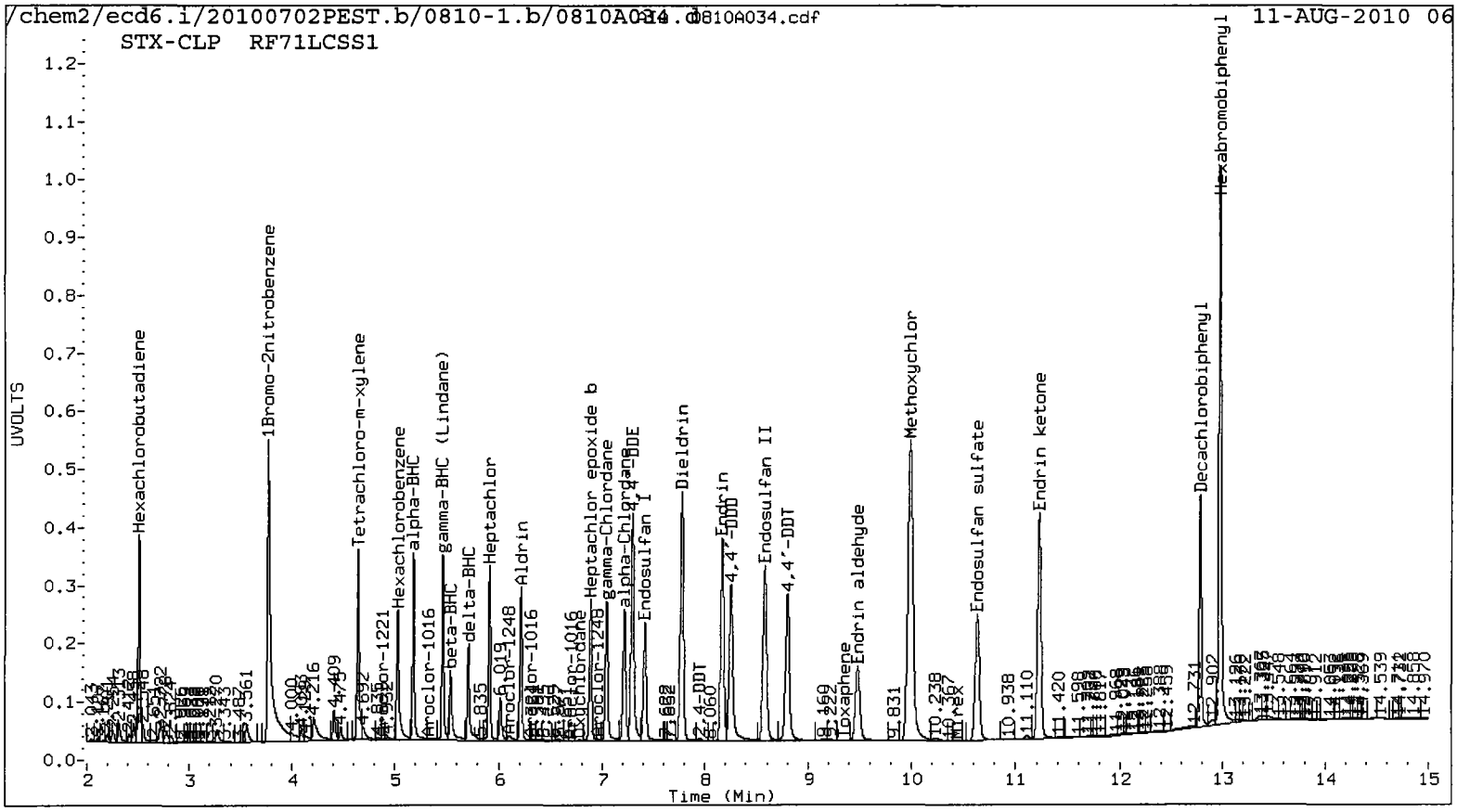
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1363133	-11.6
Hexabromobiphenyl	1636073	1549692	-5.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	STX-CLP Col RT	Shift	Height	Amount	Peak#	CLP2 Col RT	Shift	Height	Amount
Toxaphene	1	---			0.000	1	---			0.000
Toxaphene	2	9.361	0.043	10904	7.018	2	---			0.000
Toxaphene	3	9.484	0.005	793254	586.024	3	9.734	-0.012	439234	324.814
Toxaphene	4	10.438	0.015	3109	1.390	4	11.047	-0.011	1673	1.539
Toxaphene	5	11.227	0.032	1808493	1392.655	5	11.811	0.033	1243	2.361
Toxaphene	6	---			0.000	NS	---			----
		Total STX-CLPAve (4 peaks): 496.772					Total CLP2Ave (3 peaks): 109.571			RPD = 128*
		Corrected Ave (3 peaks): 198.144					Corrected Ave: < 3 Peaks			
Aroclor-1016	1	---			0.000	1	---			0.000
Aroclor-1016	2	---			0.000	2	---			0.000
Aroclor-1016	3	---			0.000	3	---			0.000
Aroclor-1016	4	---			0.000	4	---			0.000
Aroclor-1016	5	---			0.000	5	---			0.000
		STX-CLPAve: <3 Quant Peaks					CLP2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.000	1	---			0.000
Aroclor-1221	2	---			0.000	2	---			0.000
Aroclor-1221	3	---			0.000	3	---			0.000
Aroclor-1221	4	---			0.000	4	---			0.000
		STX-CLPAve: <3 Quant Peaks					CLP2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.000	1	---			0.000
Aroclor-1232	2	---			0.000	2	---			0.000
Aroclor-1232	3	---			0.000	3	---			0.000
Aroclor-1232	4	---			0.000	4	---			0.000
Aroclor-1232	5	---			0.000	5	---			0.000
		STX-CLPAve: <3 Quant Peaks					CLP2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.000	1	---			0.000
Aroclor-1242	2	---			0.000	2	---			0.000
Aroclor-1242	3	---			0.000	3	---			0.000
Aroclor-1242	4	---			0.000	4	---			0.000
Aroclor-1242	5	---			0.000	5	---			0.000
Aroclor-1242	6	---			0.000	NS	---			----
		STX-CLPAve: <3 Quant Peaks					CLP2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.000	1	---			0.000
Aroclor-1248	2	---			0.000	2	---			0.000
Aroclor-1248	3	---			0.000	3	---			0.000

Aroclor-1248	4	---	0.000	4	---	0.000
Aroclor-1248	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks		
Aroclor-1254	1	---	0.000	1	---	0.000
Aroclor-1254	2	---	0.000	2	---	0.000
Aroclor-1254	3	---	0.000	3	---	0.000
Aroclor-1254	4	---	0.000	4	---	0.000
Aroclor-1254	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks		
Aroclor-1260	1	---	0.000	1	---	0.000
Aroclor-1260	2	---	0.000	2	---	0.000
Aroclor-1260	3	---	0.000	3	---	0.000
Aroclor-1260	4	---	0.000	4	---	0.000
Aroclor-1260	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks		
Aroclor-1262	1	---	0.000	1	---	0.000
Aroclor-1262	2	---	0.000	2	---	0.000
Aroclor-1262	3	---	0.000	3	---	0.000
Aroclor-1262	4	---	0.000	4	---	0.000
Aroclor-1262	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks		
Aroclor-1268	1	---	0.000	1	---	0.000
Aroclor-1268	2	---	0.000	2	---	0.000
Aroclor-1268	3	---	0.000	3	---	0.000
Aroclor-1268	4	---	0.000	4	---	0.000
Aroclor-1268	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks		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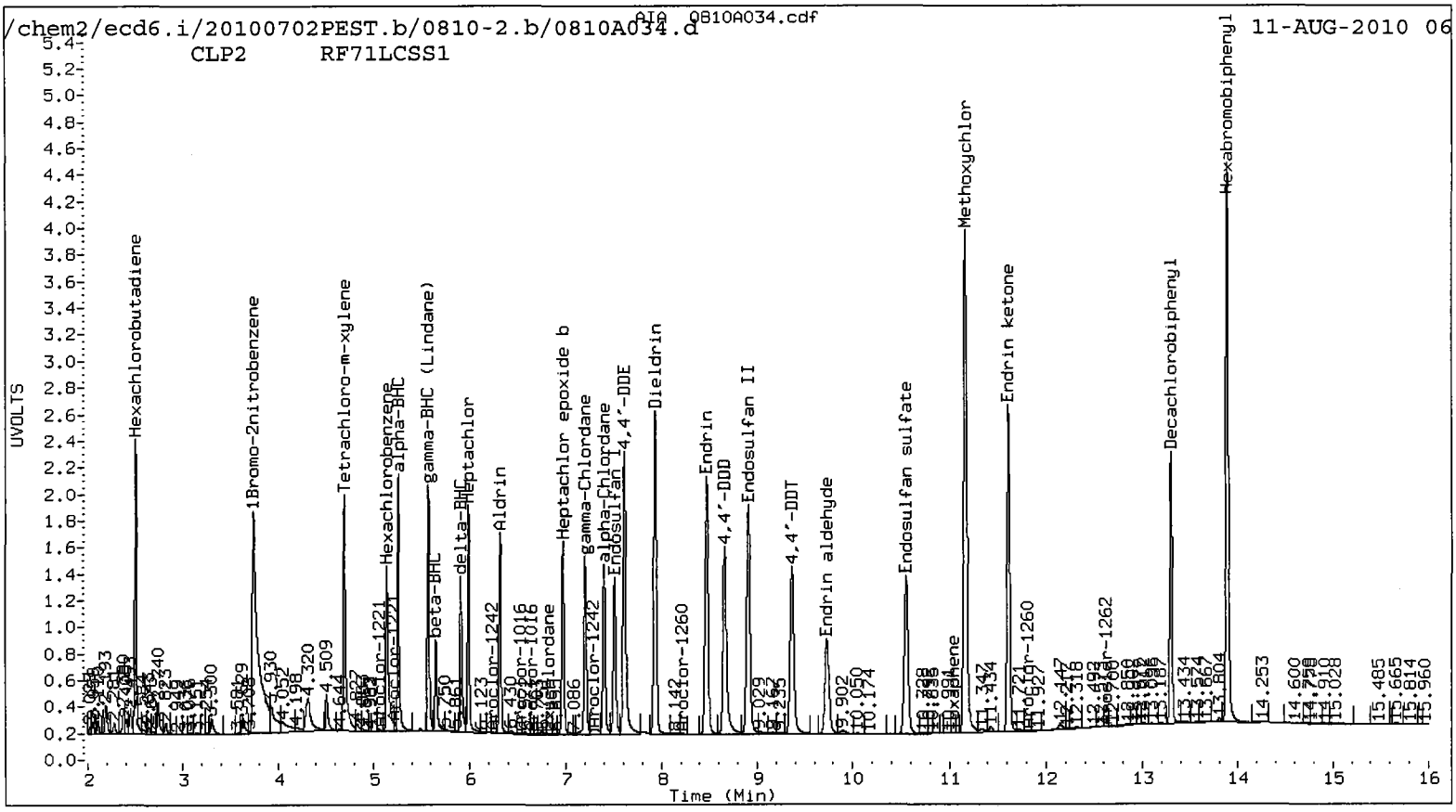
PID 0810A034.cdf
11-AUG-2010 06
STX-CLP RF71LCSS1
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aroclor-1221
Aroclor-1016
Aldrin
Heptachlor epoxide b
Aroclor-1248
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
4,4'-DDD
Endrin
Endosulfan II
4,4'-DDT
Toxaphene
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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11-AUG-2010 06
CLP2 RF71LCSS1
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aroclor-1242
Aldrin
Aroclor-1016
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
Aroclor-1260
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Data File: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A034.d/0810A034.cdf
Injection Date: 11-AUG-2010 06:23
Instrument: ecd6.i
Client Sample ID: RF71LCSS1

AIA 0810A034.cdf: 1.500 to 16.828 Min

UVOLTS (x10^4)

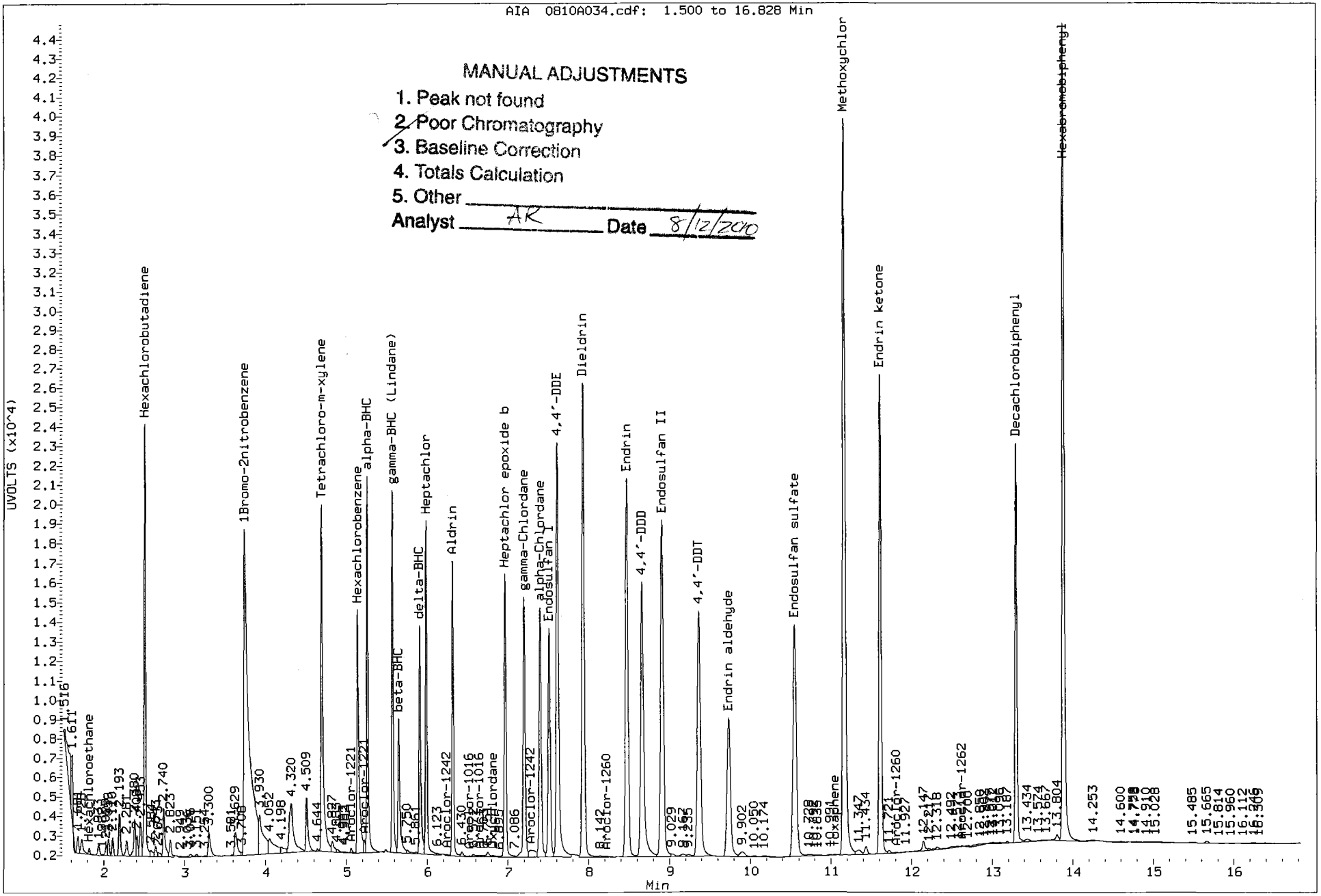
Min

Hexachlorobutadiene
Hexachloroethane
Tetrachloro-m-xylene
1Bromo-2nitrobenzene
Decachlorobiphenyl
Hexabromobiphenyl
Methoxychlor
Endrin ketone
Endosulfan sulfate
Endrin aldehyde
4,4'-DDT
Endosulfan II
4,4'-DDD
Endrin
Dieldrin
4,4'-DDE
Endosulfan I
alpha-Chlordane
gamma-Chlordane
Heptachlor epoxide b
Aroclor-1242
Aldrin
delta-BHC
Heptachlor
beta-BHC
gamma-BHC (Lindane)
alpha-BHC
Hexachlorobenzene
Aroclor-1221
Aroclor-1260

Before AE 9/12/2011

RF71:00875

Data File: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A034.d/0810A034.cdf
Injection Date: 11-AUG-2010 06:23
Instrument: ecd6.i
Client Sample ID: RF71LCSS1



RF71 08/12/10

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 8/12/2010

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Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A035.d Client ID: RF71LCSDS1
Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 06:44
Compound Sublist: wpest Report Date: 08/12/2010 16:30
Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
Operator: ar Dilution Factor: 1.000

STX-CLP Col RT	Shift	Response	CLP2 Col RT	Shift	Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.770	-0.012	2624920	3.745	-0.009	1427902	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.178	-0.014	943447	5.262	-0.012	518377	15.5019	16.8180	8.1	alpha-BHC A B
5.539	-0.013	473087	5.650	-0.010	239030	18.2328	17.5721	3.7	beta-BHC A B
5.709	-0.014	600234	5.910	-0.012	386911	11.4141	15.6407	31.2	delta-BHC A B
5.461	-0.015	878460	5.573	-0.012	494123	16.4545	18.2679	10.4	gamma-BHC (Lindane) A B
5.910	-0.016	893603	5.989	-0.013	492173	15.8599	17.3900	9.2	Heptachlor A B
6.214	-0.018	830713	6.316	-0.015	441385	15.3182	17.3614	12.5	Aldrin A B
6.884	-0.023	890436	6.966	-0.018	492981	16.1607	18.4944	13.5	Heptachlor epoxide b A B
7.415	-0.027	938800	7.509	-0.022	462036	17.7362	19.9376	11.7	Endosulfan I A B
7.773	-0.030	1893536	7.933	-0.024	1039311	35.1929	40.5375	14.1	Dieldrin A B
7.293	-0.024	1696073	7.610	-0.022	946281	34.9230	40.6545	15.2	4,4'-DDE A B
8.166	-0.033	1676140	8.472	-0.028	940182	38.5719	39.3518	2.0	Endrin A B
8.580	-0.036	1665695	8.909	-0.030	942685	36.7058	37.2945	1.6	Endosulfan II A B
8.250	-0.032	1560329	8.660	-0.028	822460	35.9232	37.3028	3.8	4,4'-DDD A B
10.632	-0.045	1390922	10.554	-0.036	740616	31.4793	31.4120	0.2	Endosulfan sulfate A B
8.801	-0.036	1551347	9.366	-0.034	798728	36.3633	36.4802	0.3	4,4'-DDT A B
9.987	-0.046	4018630	11.168	-0.027	1878958	175.3997	176.9401	0.9	Methoxychlor A B
11.228	-0.036	1919973	11.614	-0.026	1018445	34.0964	35.8878	5.1	Endrin ketone A B
9.484	-0.046	1020287	9.734	-0.037	563613	25.3346	25.3721	0.1	Endrin aldehyde A B
7.042	-0.023	955857	7.200	-0.020	492521	17.6101	19.6136	10.8	gamma-Chlordane A B
7.215	-0.025	900276	7.398	-0.021	491978	16.4605	19.8482	18.7	alpha-Chlordane A B
2.509	-0.012	1014444	2.509	-0.009	613691	12.0708	14.2860	16.8	Hexachlorobutadiene A B
5.028	-0.012	755098	5.142	-0.009	420808	14.2736	16.2391	12.9	Hexachlorobenzene A B
6.779	-0.003	16937	----			~~0.3980~~	~~0.0000~~	---	Oxychlordane
----			7.152	-0.029	16934	0.0000	1.0390	---	2,4-DDE
----			7.321	-0.022	23721	0.0000	0.8962	---	trans-Nonachlor
----			----			0.0000	0.0000	---	2,4-DDD
7.952	-0.026	33936	----			1.0553	0.0000	---	2,4-DDT
----			----			0.0000	0.0000	---	cis-Nonachlor
10.440	0.021	3514	----			~~0.0840~~	~~0.0000~~	---	Mirex
12.968	-0.022	3573124	13.884	-0.023	1613852	80.0000	80.0000	0.0	Hexabromobiphenyl A B
1.821	-0.024	214	1.819	-0.007	15193	~~0.0000~~	~~0.0000~~	---	Hexachloroethane
4.642	-0.012	973410	4.696	-0.009	614047	24.8577	29.8136	18.1	Tetrachloro-m-xylene A B
12.781	-0.023	1308463	13.298	-0.020	680027	32.0667	36.3088	12.4	Decachlorobiphenyl A B

* Indicates RPD > 40%
A Indicates Peak Area was used for Column 1 quantitation instead of Height
B Indicates Peak Area was used for Column 2 quantitation instead of Height
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE/SPIKE PERCENT RECOVERY

SURR/SPIKE	Col1	Col2	Lower	Limits
Tetrachloro-m-xylene	62.1	74.5	62.1	29-110
Decachlorobiphenyl	80.2	90.8	80.2	18-151

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2624920	5.1
Hexabromobiphenyl	3575051	3573124	-0.1

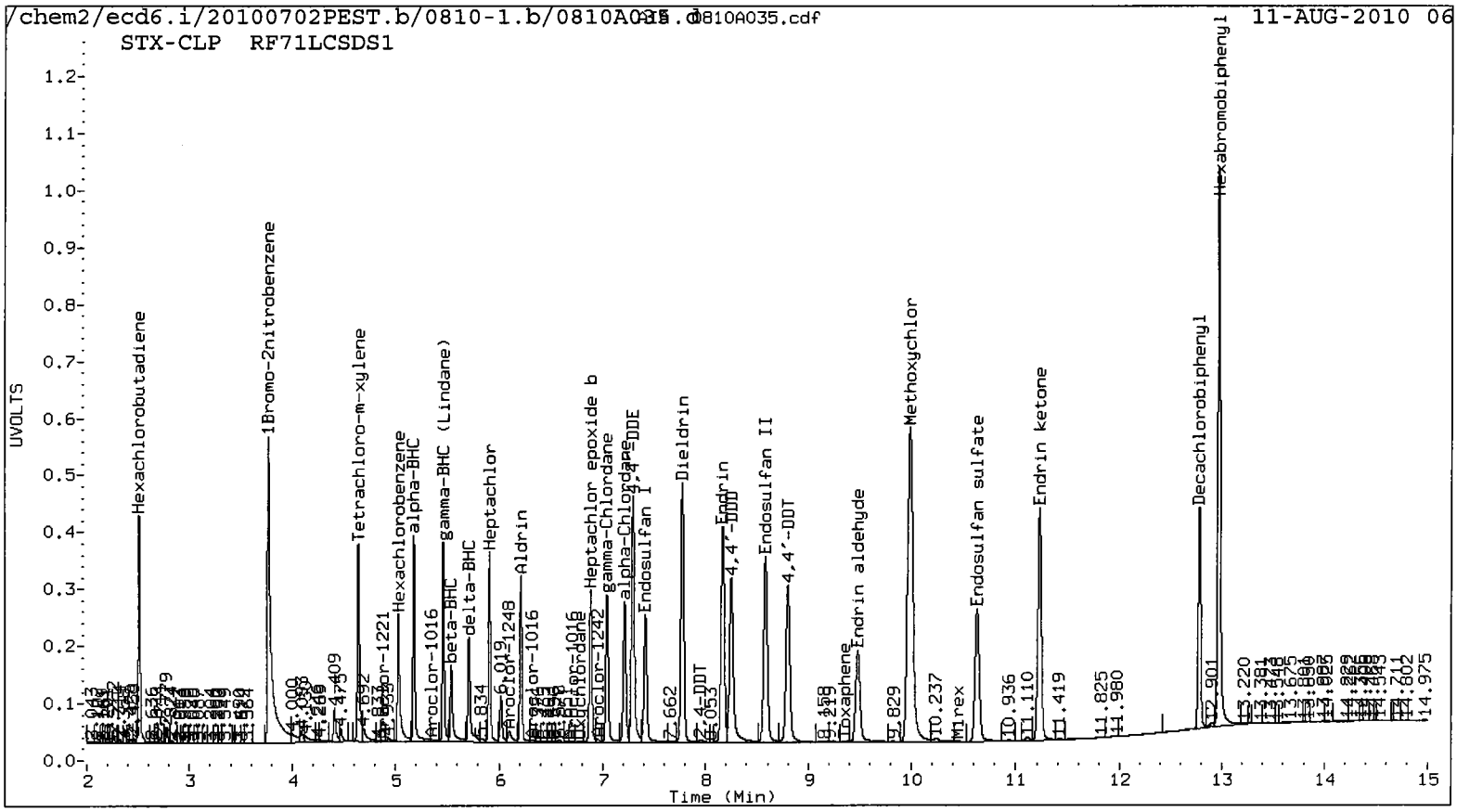
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1427902	-7.4
Hexabromobiphenyl	1636073	1613852	-1.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Aroclor	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	---			0.000	1	---			0.000	
Toxaphene	2	9.356	0.039	9012	5.655	2	---			0.000	
Toxaphene	3	9.484	0.005	1020287	734.908	3	---			0.000	
Toxaphene	4	10.440	0.017	3514	1.532	4	---			0.000	
Toxaphene	5	11.228	0.033	1919973	1441.548	5	---			0.000	
Toxaphene	6	---			0.000	NS	---			----	
Total STX-CLPAve (4 peaks): 545.911						CLP2Ave: <3 Quant Peaks					
Aroclor-1016	1	---			0.000	1	---			0.000	
Aroclor-1016	2	---			0.000	2	---			0.000	
Aroclor-1016	3	---			0.000	3	---			0.000	
Aroclor-1016	4	---			0.000	4	---			0.000	
Aroclor-1016	5	---			0.000	5	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1221	1	---			0.000	1	---			0.000	
Aroclor-1221	2	---			0.000	2	---			0.000	
Aroclor-1221	3	---			0.000	3	---			0.000	
Aroclor-1221	4	---			0.000	4	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1232	1	---			0.000	1	---			0.000	
Aroclor-1232	2	---			0.000	2	---			0.000	
Aroclor-1232	3	---			0.000	3	---			0.000	
Aroclor-1232	4	---			0.000	4	---			0.000	
Aroclor-1232	5	---			0.000	5	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1242	1	---			0.000	1	---			0.000	
Aroclor-1242	2	---			0.000	2	---			0.000	
Aroclor-1242	3	---			0.000	3	---			0.000	
Aroclor-1242	4	---			0.000	4	---			0.000	
Aroclor-1242	5	---			0.000	5	---			0.000	
Aroclor-1242	6	---			0.000	NS	---			----	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					
Aroclor-1248	1	---			0.000	1	---			0.000	
Aroclor-1248	2	---			0.000	2	---			0.000	
Aroclor-1248	3	---			0.000	3	---			0.000	
Aroclor-1248	4	---			0.000	4	---			0.000	

Aroclor-1248	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1254	1	---	0.000	1	---	0.000
Aroclor-1254	2	---	0.000	2	---	0.000
Aroclor-1254	3	---	0.000	3	---	0.000
Aroclor-1254	4	---	0.000	4	---	0.000
Aroclor-1254	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1260	1	---	0.000	1	---	0.000
Aroclor-1260	2	---	0.000	2	---	0.000
Aroclor-1260	3	---	0.000	3	---	0.000
Aroclor-1260	4	---	0.000	4	---	0.000
Aroclor-1260	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1262	1	---	0.000	1	---	0.000
Aroclor-1262	2	---	0.000	2	---	0.000
Aroclor-1262	3	---	0.000	3	---	0.000
Aroclor-1262	4	---	0.000	4	---	0.000
Aroclor-1262	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			
Aroclor-1268	1	---	0.000	1	---	0.000
Aroclor-1268	2	---	0.000	2	---	0.000
Aroclor-1268	3	---	0.000	3	---	0.000
Aroclor-1268	4	---	0.000	4	---	0.000
Aroclor-1268	5	---	0.000	5	---	0.000
	STX-CLPAve: <3 Quant Peaks			CLP2Ave: <3 Quant Peaks			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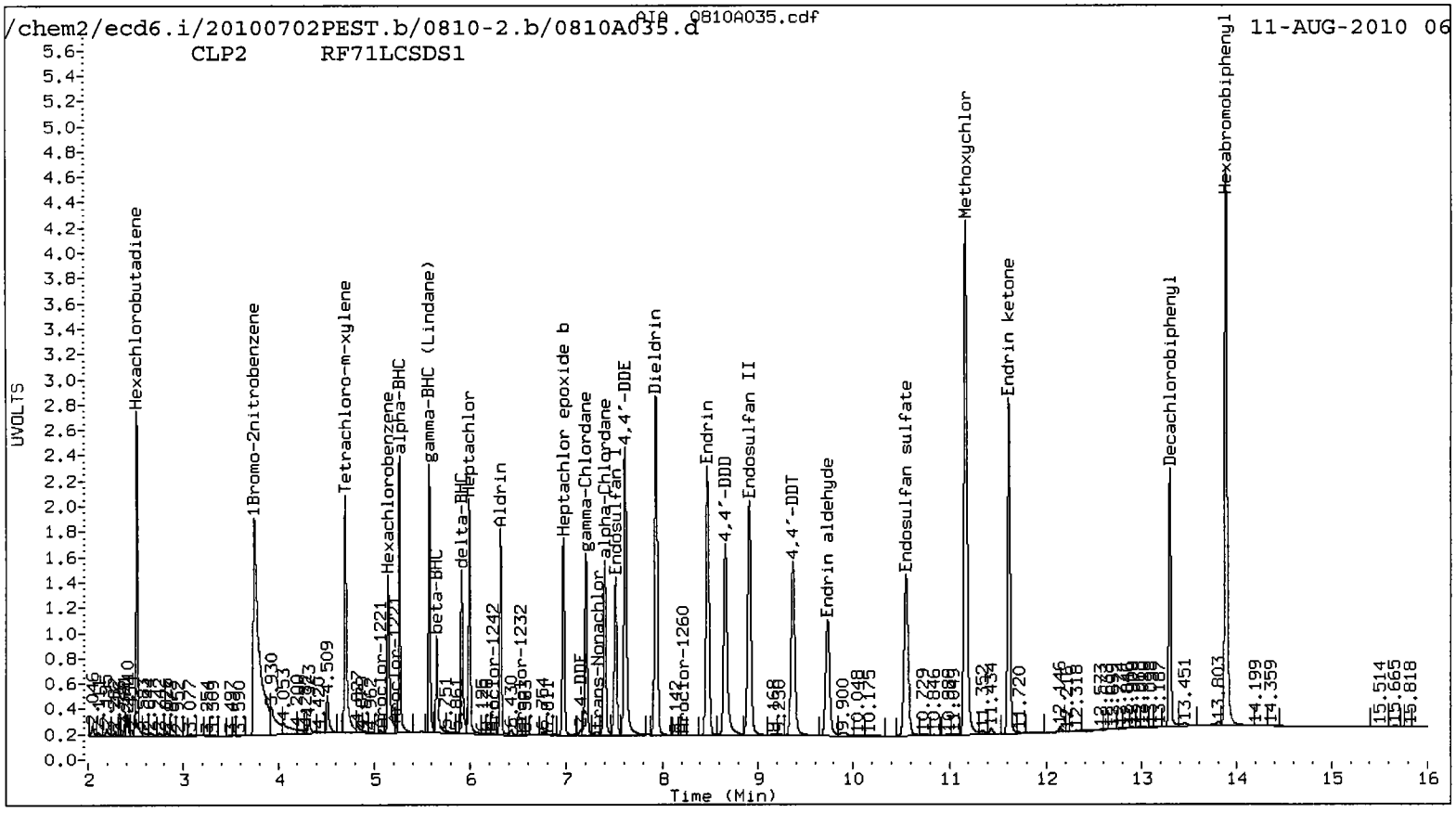
11-AUG-2010 06
STX-CLP RF71LCSDS1
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
Dieldrin
4,4'-DDT
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endosulfan sulfate
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl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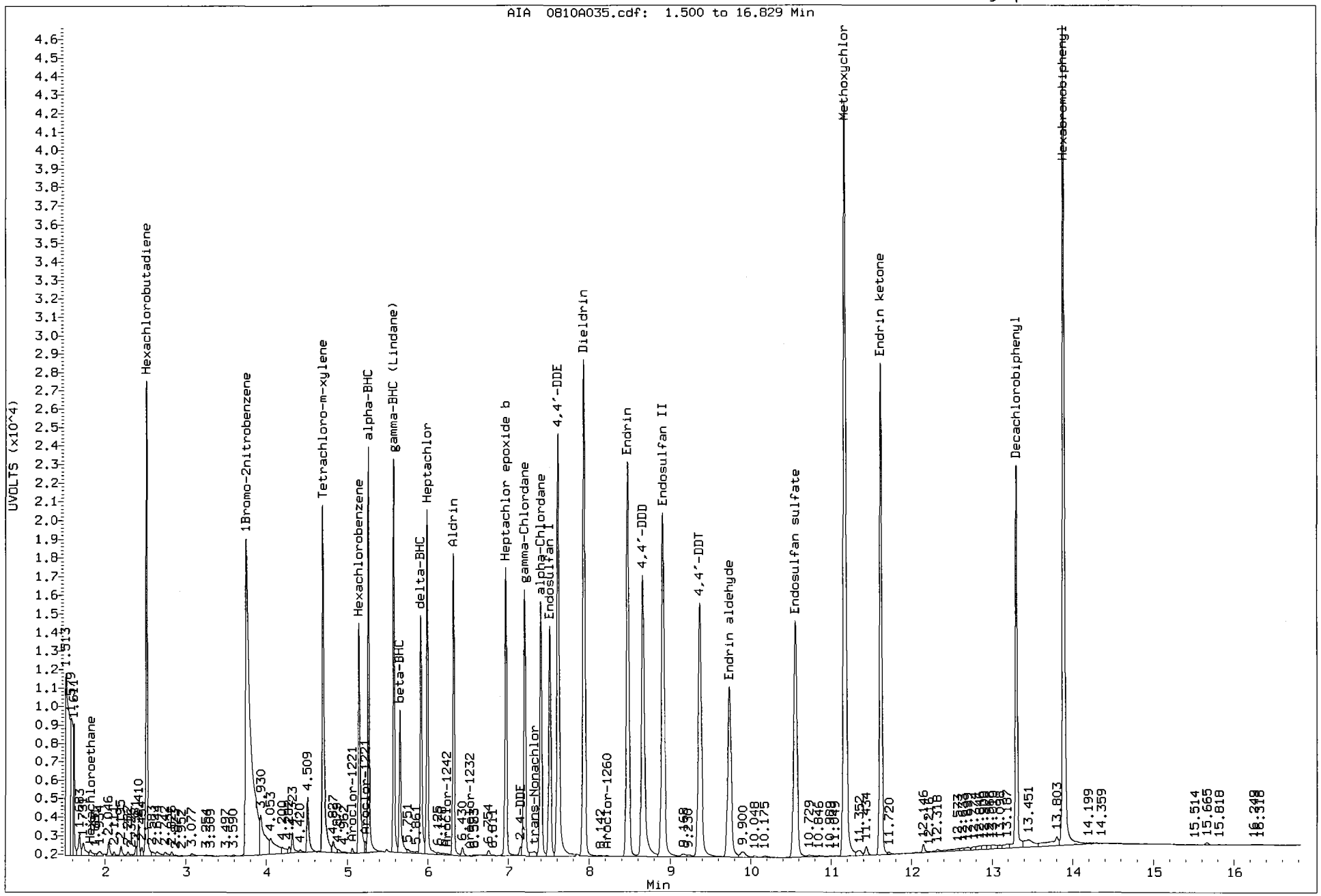
0810A035.cdf
11-AUG-2010 06
CLP2 RF71LCSDS1
UVOLTS
Time (Min)
Hexachlorobutadiene
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Hexachlorobenzene
alpha-BHC
gamma-BHC (Lindane)
beta-BHC
Heptachlor
Aldrin
Heptachlor epoxide b
gamma-Chlordane
trans-Nonachlor
alpha-Chlordane
Endosulfan I
4,4'-DDE
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endosulfan sulfate
Methoxychlor
Endrin ketone
Decachlorobiphenyl
Hexabromobiphenyl

Data File: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A035.d/0810A035.cdf
Injection Date: 11-AUG-2010 06:44
Instrument: ecd6.i
Client Sample ID: RF71LCSDS1

Before AR 5/12/2010



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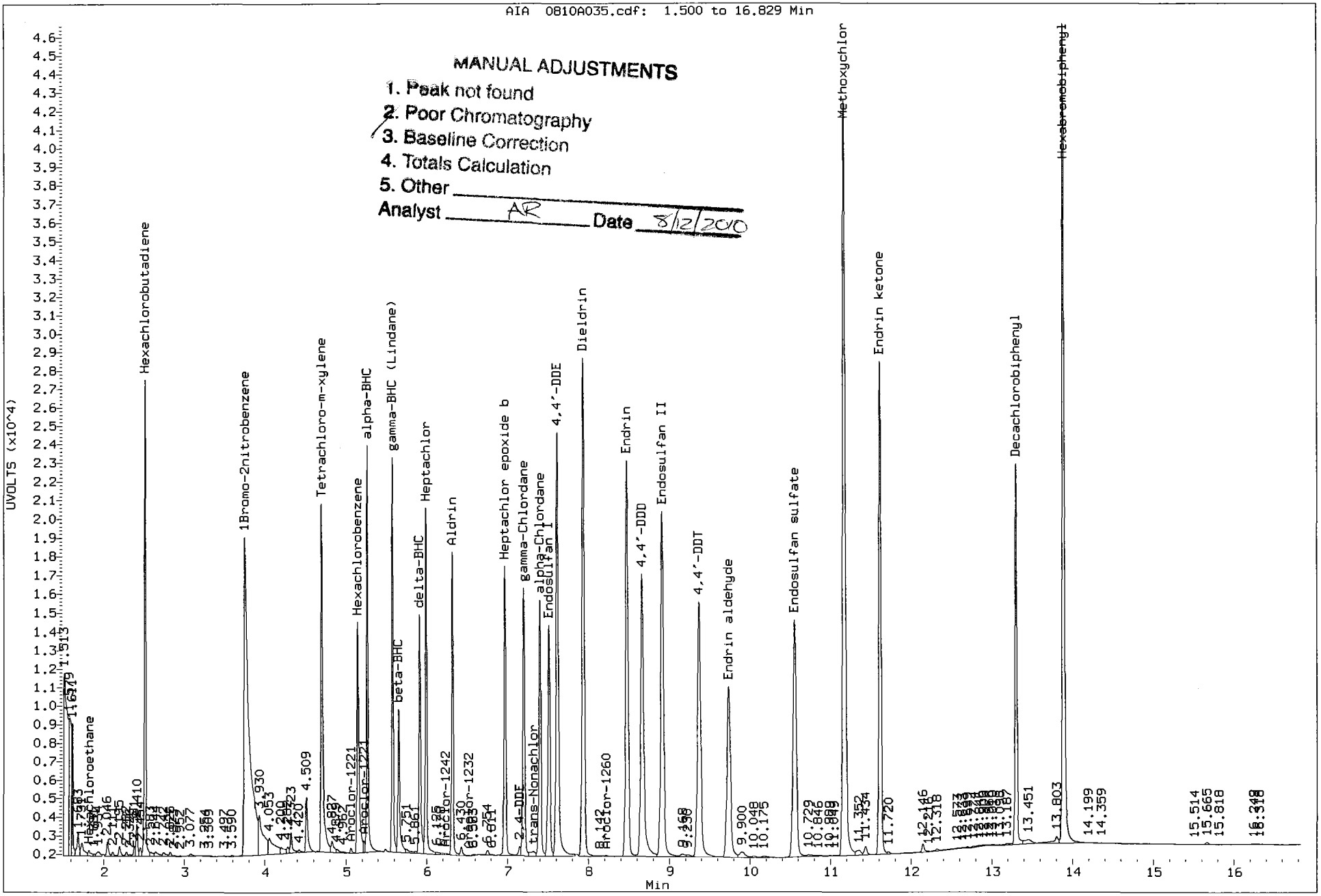
Injection Date: 11-AUG-2010 06:44
Instrument: ecd6.i
Client Sample ID: RF71LCSDS1



7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS ARI Job No.: 20100702PEST

Analysis Date: 11-AUG-2010 08:28 Init. Calib. Date: 02-JUL-2010

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
4,4'-DDE	7.298	29113
Endrin	8.166	3819942
4,4'-DDD	8.255	223565
4,4'-DDT	8.801	3710876
Endrin ketone	11.227	465715
Endrin aldehyde	9.485	169195

DDT Percent Breakdown = 6.4 %
((29113+223565) * 100)/(29113+223565+3710876)

Endrin Percent Breakdown = 14.3 %
((169195+465715) * 100)/(169195+465715+3819942)

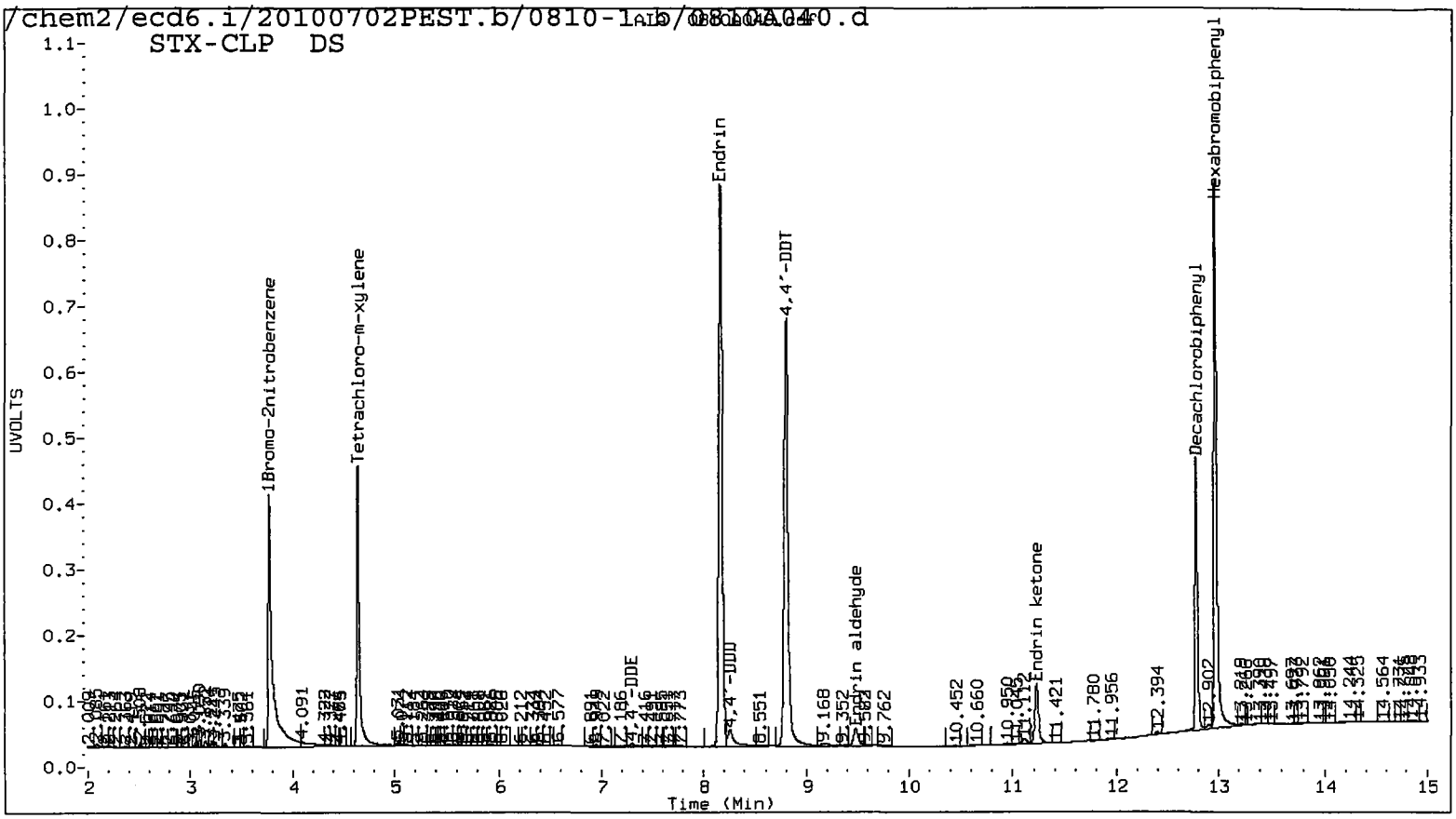
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
4,4'-DDE	7.617	15121
Endrin	8.472	2111207
4,4'-DDD	8.668	110654
4,4'-DDT	9.366	1943197
Endrin ketone	11.615	238996
Endrin aldehyde	9.736	107124

DDT Percent Breakdown = 6.1 %
((15121+110654) * 100)/(15121+110654+1943197)

Endrin Percent Breakdown = 14.1 %
((107124+238996) * 100)/(107124+238996+2111207)

Form VII Pest-1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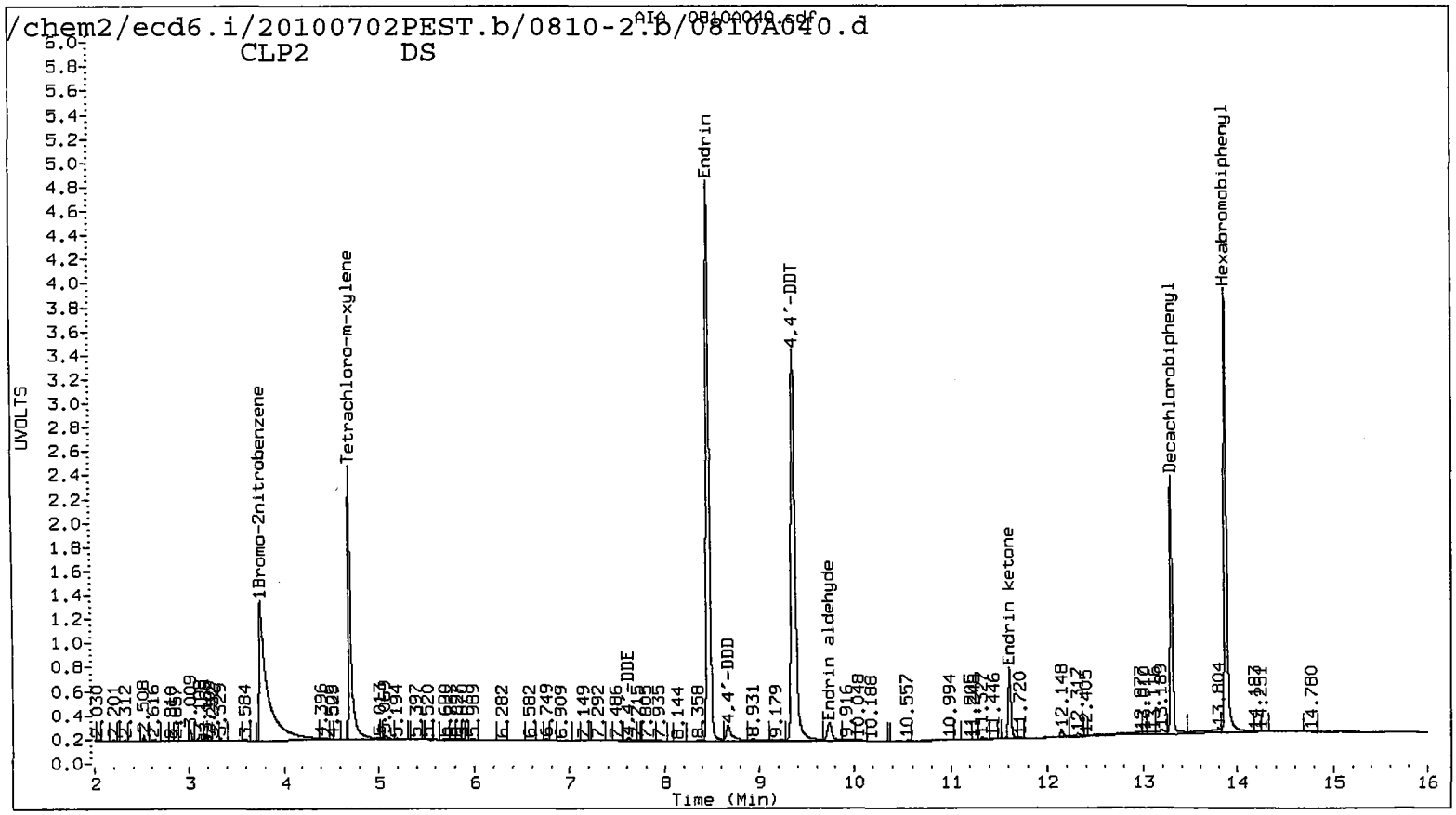
STX-CLP DS
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Endrin
4,4'-DDT
Hexabromobiphenyl
Decachlorobiphenyl
DDE
4,4'-DDD
Endrin aldehyde
Endrin ketone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CLP2 DS
UVOLTS
Time (Min)
1Bromo-2nitrobenzene
Tetrachloro-m-xylene
Endrin
4,4'-DDT
Hexabromobiphenyl
Decachlorobiphenyl
DDE
4,4'-DDD
Endrin aldehyde
Endrin ketone