

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A041.d ARI ID: INDAE CCAL
 Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A041.d Client ID:
 Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 08:49
 Compound Sublist: INDA Report Date: 08/11/2010 17:45
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.771	-0.011 2404565	3.749 -0.005 1523673	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B	
5.178	-0.014 1173982	5.263 -0.011 670822	21.0576	20.3958	3.2	alpha-BHC A B	
5.540	-0.013 517065	5.651 -0.009 279335	21.7539	19.2443	12.2	beta-BHC A B	
5.709	-0.014 950244	5.911 -0.011 492557	19.7258	18.6599	5.6	delta-BHC A B	
5.461	-0.015 1006565	5.573 -0.012 578673	20.5818	20.0490	2.6	gamma-BHC (Lindane) A B	
5.909	-0.017 1065550	5.989 -0.013 599014	20.6447	19.8347	4.0	Heptachlor A B	
6.213	-0.018 992388	6.316 -0.015 539749	19.9764	19.8960	0.4	Aldrin A B	
6.883	-0.024 987970	6.966 -0.018 542679	19.5741	19.0791	2.6	Heptachlor epoxide b A B	
7.413	-0.028 1006058	7.508 -0.022 502241	20.7486	20.3102	2.1	Endosulfan I A B	
7.773	-0.030 2052110	7.934 -0.024 1139173	41.6353	41.6397	0.0	Dieldrin A B	
7.294	-0.023 1735578	7.611 -0.021 997225	39.0114	40.1503	2.9	4,4'-DDE A B	
8.165	-0.034 1728060	8.472 -0.029 960052	40.8091	40.8383	0.1	Endrin A B	
8.580	-0.036 1765018	8.908 -0.031 1017333	39.9140	40.9036	2.4	Endosulfan II A B	
8.250	-0.031 1656158	8.661 -0.027 872473	39.1289	40.2160	2.7	4,4'-DDD A B	
10.631	-0.046 1658214	10.554 -0.036 856980	38.5123	36.9397	4.2	Endosulfan sulfate A B	
8.801	-0.036 1680357	9.366 -0.034 862509	40.4197	40.0351	1.0	4,4'-DDT A B	
9.987	-0.045 4307639	11.168 -0.028 1973413	192.9421	188.8630	2.1	Methoxychlor A B	
11.226	-0.037 2160766	11.614 -0.026 1115626	39.3784	39.9528	1.4	Endrin ketone A B	
9.483	-0.047 1398144	9.734 -0.037 781411	35.6271	35.7499	0.3	Endrin aldehyde A B	
7.041	-0.024 998556	7.200 -0.020 548730	20.0826	20.4785	2.0	gamma-Chlordane A B	
7.215	-0.025 971126	7.398 -0.021 534769	19.3831	20.2185	4.2	alpha-Chlordane A B	
2.508	-0.012 1475045	2.509 -0.009 909666	19.1598	19.8448	3.5	Hexachlorobutadiene A B	
5.029	-0.011 968440	5.144 -0.007 564823	19.9840	20.4266	2.2	Hexachlorobenzene A B	
12.968	-0.022 3481859	13.885 -0.022 1587975	80.0000	80.0000	0.0	Hexabromobiphenyl A B	
4.642	-0.011 1477181	4.697 -0.007 894611	41.1793	40.7056	1.2	Tetrachloro-m-xylene A B	
12.780	-0.023 1475691	13.298 -0.020 763855	37.1129	41.4493	11.0	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	102.9	101.8	101.8~	115- 0
Decachlorobiphenyl	92.8	103.6	92.8~	115- 0

~ Indicates recovery outside QC Limits

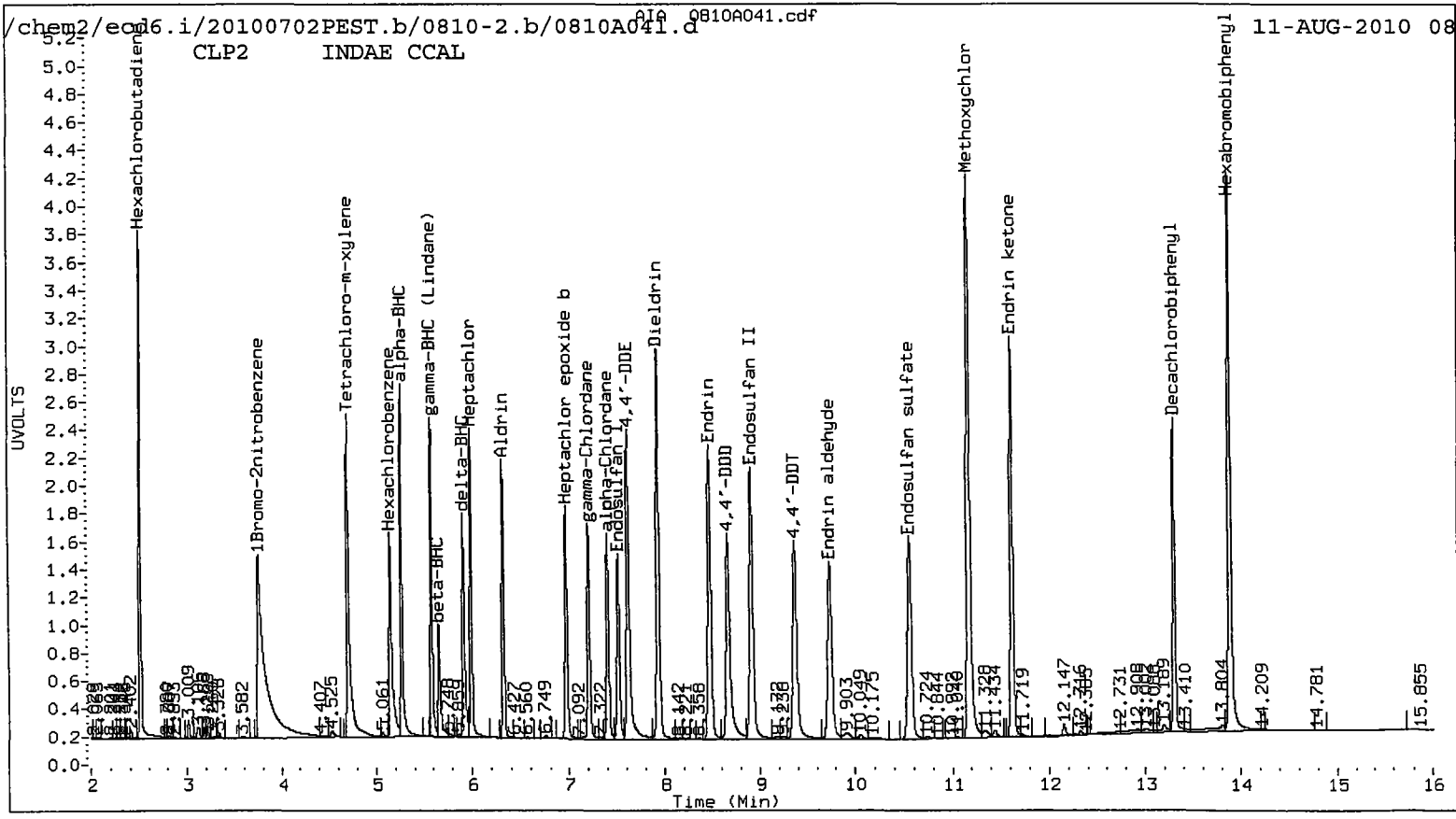
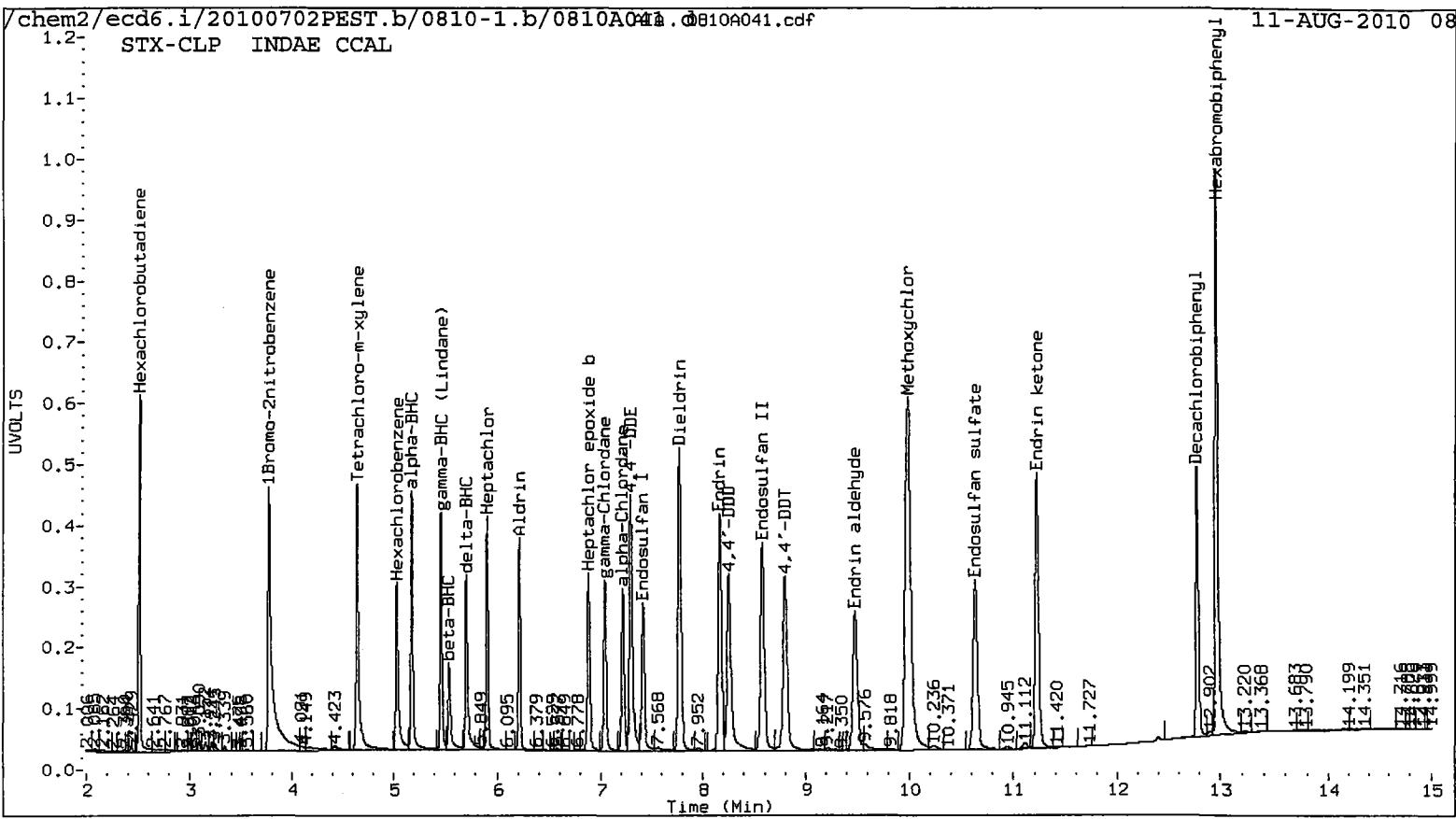
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	2496854	2404565	-3.7
Hexabromobiphenyl	3575051	3481859	-2.6

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	1542232	1523673	-1.2
Hexabromobiphenyl	1636073	1587975	-2.9

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 02-JUL-2010
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A042.d ARI ID: TOXAPH 2500
 Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A042.d Client ID:
 Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 09:10
 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	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.772	-0.010	2430825	3.750	-0.004	1425153	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.969	-0.021	3350908	13.885	-0.023	1486399	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.643	-0.010	1392633	4.698	-0.006	847917	38.4030	41.2480	7.1	Tetrachloro-m-xylene A B
12.781	-0.023	1488423	13.298	-0.020	715623	38.8960	41.4857	6.4	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	96.0	103.1	96.0~	150- 0
Decachlorobiphenyl	97.2	103.7	97.2~	150- 0

~ Indicates recovery outside QC Limits

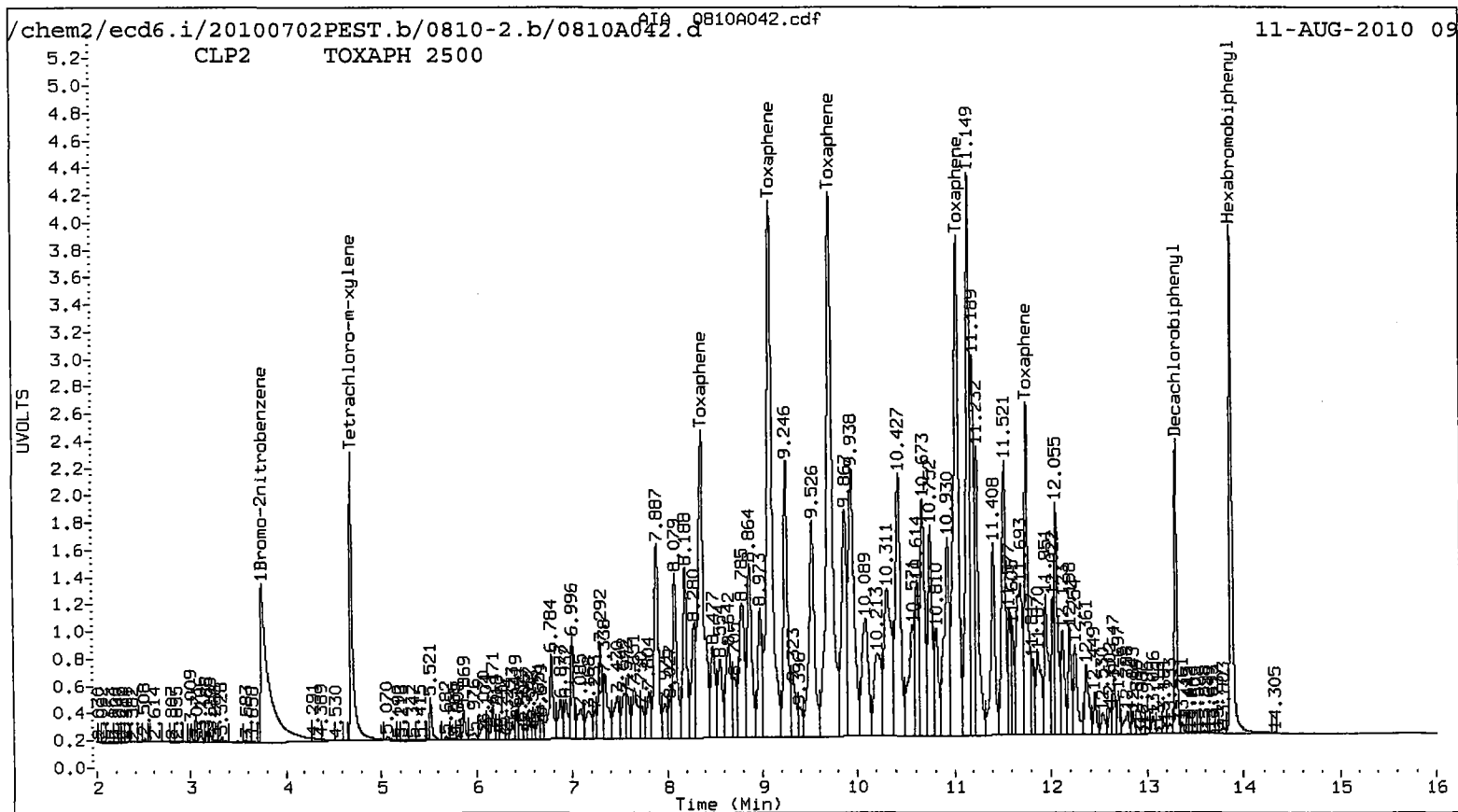
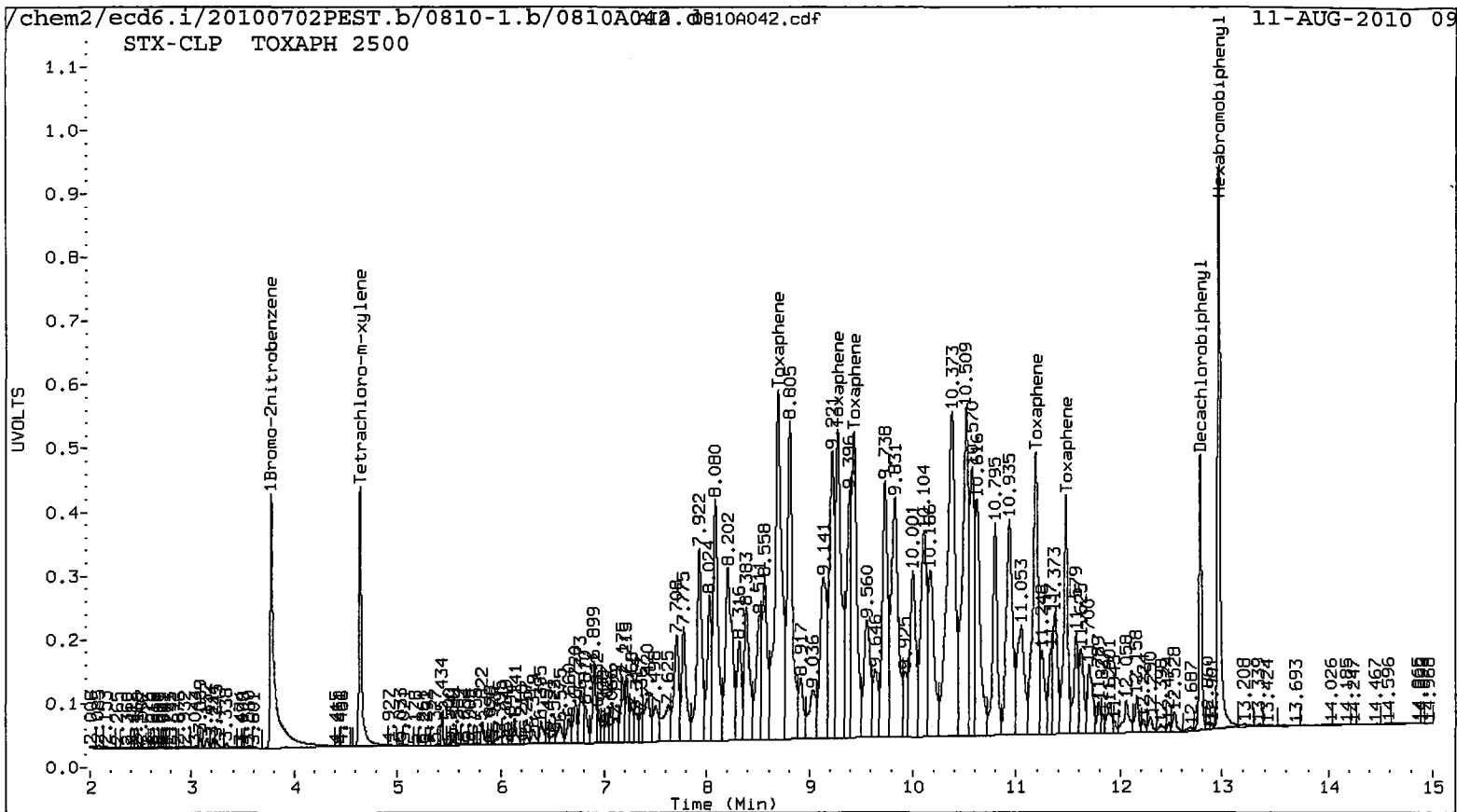
INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2430825	-2.6
Hexabromobiphenyl	3575051	3350908	-6.3

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1425153	-7.6
Hexabromobiphenyl	1636073	1486399	-9.1

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 02-JUL-2010
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col				
			Shift	Height	Amount			Shift	Height	Amount		
Toxaphene	1	8.690	-0.038	5175356	2557.340	1	8.357	-0.027	1944636	2573.548		
Toxaphene	2	9.275	-0.042	3786217	2533.237	2	9.077	-0.032	3131518	2643.704		
Toxaphene	3	9.434	-0.044	3468590	2664.089	3	9.710	-0.036	3395646	2618.010		
Toxaphene	4	---	---	---	0.000	4	11.028	-0.030	2681196	2571.161		
Toxaphene	5	11.190	-0.005	3098570	2480.737	5	11.754	-0.024	1288028	2550.296		
Toxaphene	6	11.481	-0.033	2153000	2706.559	NS	---	---	---	---		
Total STX-CLPAve (5 peaks):					2588.392	Total CLP2Ave (5 peaks):					2591.344	RPD = 0
Corrected Ave (5 peaks):					2588.392	Corrected Ave (5 peaks):					2591.344	RPD = 0



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A043.d ARI ID: WNDE CCAL
 Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A043.d Client ID:
 Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 09:31
 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	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
1.832	-0.013	288	1.820	-0.006	4301	0.0000	0.0000	---	Hexachloroethane
3.772	-0.010	2504900	3.752	-0.002	1479269	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
6.762	-0.020	1528856	6.848	-0.016	795196	38.1271	38.7773	1.7	Oxychlorane A B
6.850	-0.018	1223775	7.165	-0.015	645890	37.5765	38.2505	1.8	2,4-DDE A B
7.190	-0.022	1962722	7.324	-0.019	1022747	41.8593	40.5401	3.2	trans-Nonachlor A B
7.546	-0.022	1111681	7.942	-0.020	627951	41.0755	39.5097	3.9	2,4-DDD A B
7.953	-0.026	1309024	8.497	-0.025	649546	43.2031	39.7087	8.4	2,4-DDT A B
8.214	-0.030	2215698	8.607	-0.027	1150466	43.1716	41.2111	4.6	cis-Nonachlor A B
10.374	-0.045	1590874	11.463	-0.024	725620	40.3736	38.9221	3.7	Mirex A B
12.969	-0.021	3366719	13.886	-0.021	1538191	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.643	-0.011	1436638	4.698	-0.007	852305	38.4449	39.9447	3.8	Tetrachloro-m-xylene A B
12.780	-0.023	1447680	13.299	-0.019	751844	37.6536	42.1180	11.2	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	96.1	99.9	96.1~	150- 0
Decachlorobiphenyl	94.1	105.3	94.1~	150- 0

~ Indicates recovery outside QC Limits

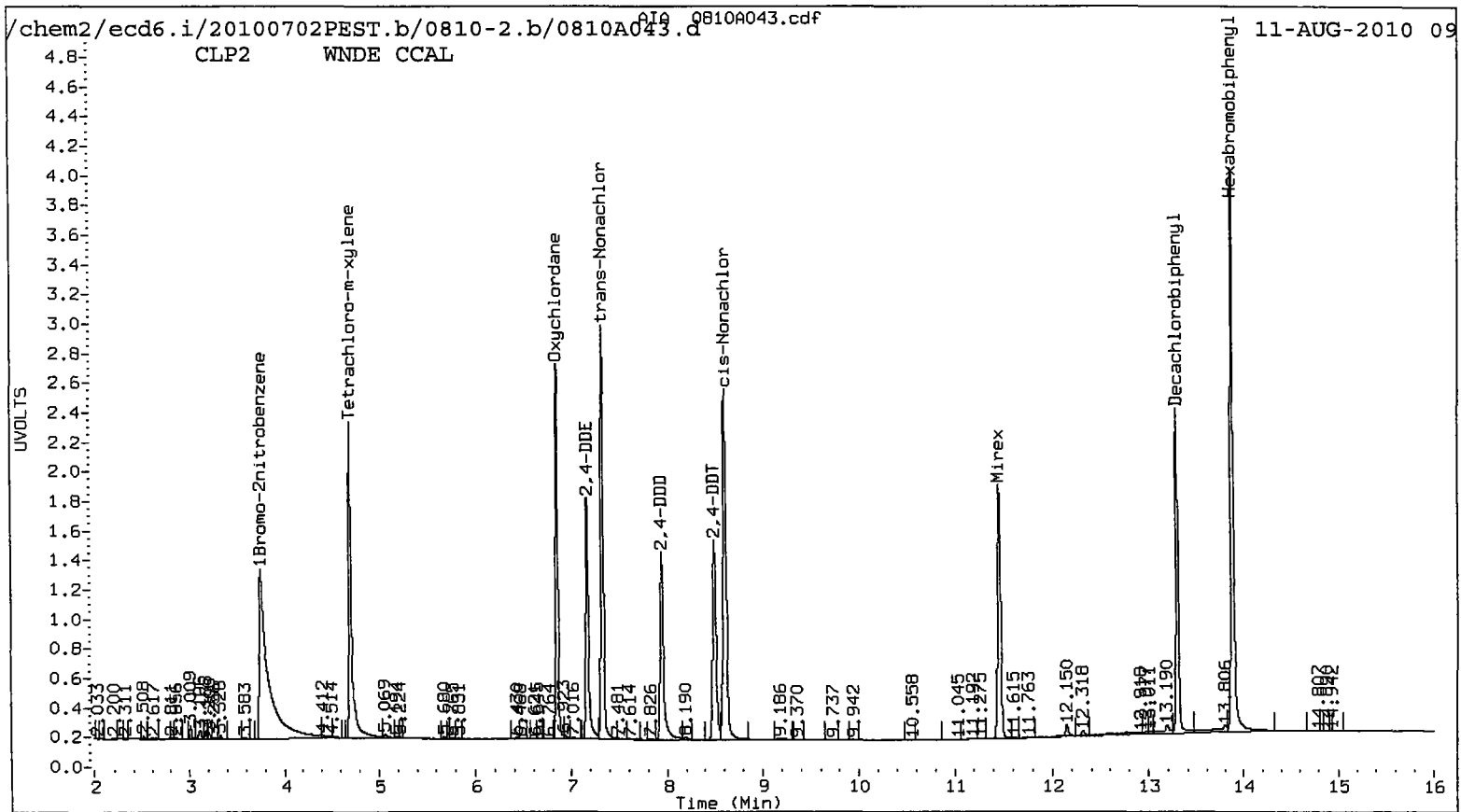
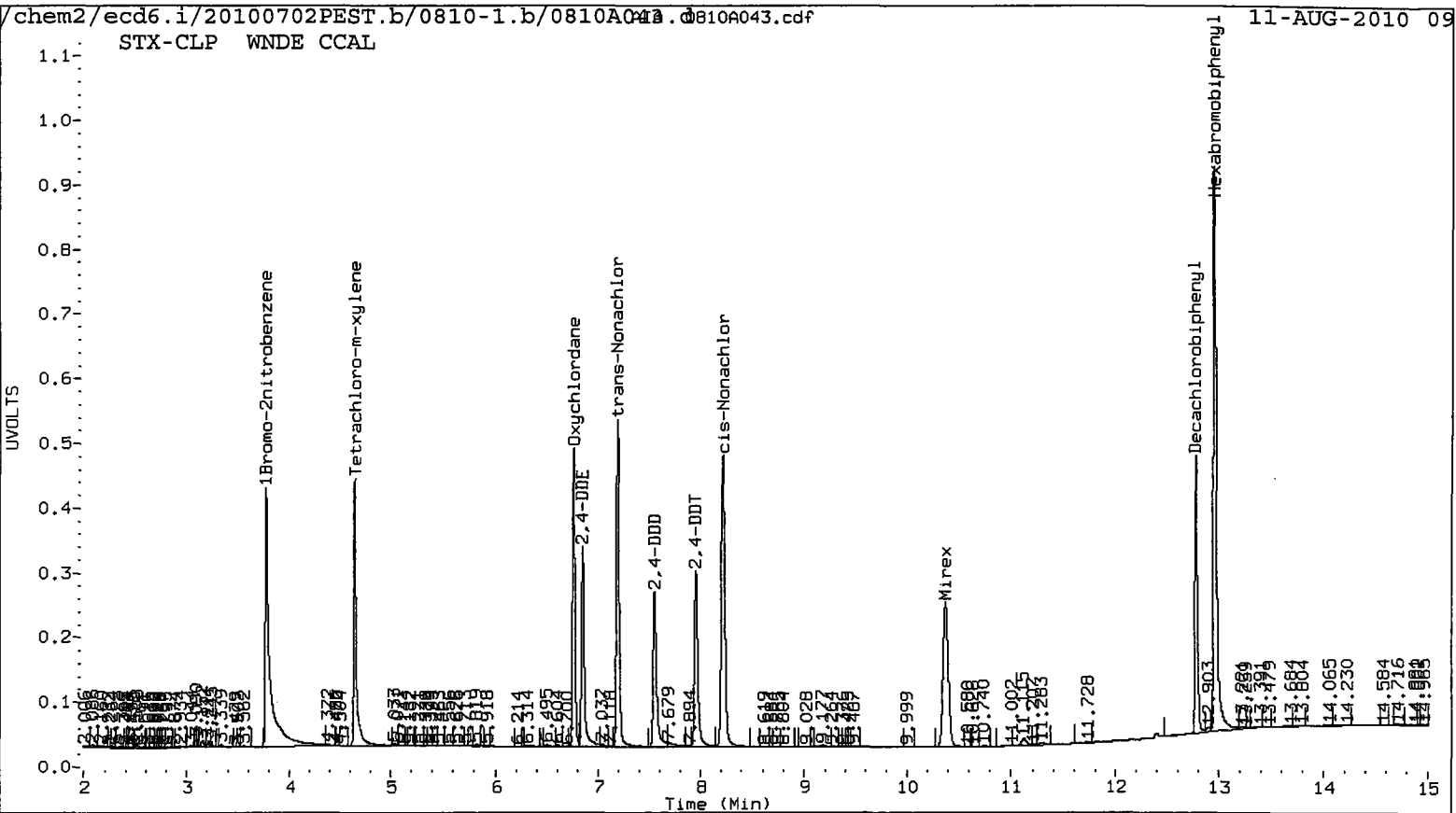
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	2496854	2504900	0.3
Hexabromobiphenyl	3575051	3366719	-5.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	1542232	1479269	-4.1
Hexabromobiphenyl	1636073	1538191	-6.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

AR 8/12/2010

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A050.d ARI ID: RF71A
 Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A050.d Client ID: BW-07-SC-COMP-10072
 Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 11:57
 Compound Sublist: wpest Report Date: 08/12/2010 16:30
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.765	-0.017 2363195	3.733 -0.021 1204468	3.733	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.163	-0.029 13936	5.244 -0.029 61757	5.244	0.2543	2.3753	161.3*	alpha-BHC A B
5.510	-0.042 6033	5.650 -0.010 5879	5.650	0.2583	0.5124	66.0*	beta-BHC A B
5.699	-0.024 27046	5.878 -0.045 31189	5.878	0.5713	1.4947	89.4*	delta-BHC A B
5.467	-0.009 24324	5.595 0.010 9954	5.595	0.5061	0.4363	14.8	gamma-BHC (Lindane) A B
----		5.956 -0.047 44716	5.956	0.0000	1.8730	---	Heptachlor
6.192	-0.040 5236	6.313 -0.018 7029	6.313	0.1072	0.3278	101.4*	Aldrin A B
6.866	-0.041 96648	7.014 0.030 14097	7.014	1.9484	0.6270	102.6*	Heptachlor epoxide b A B
7.455	0.014 427134	7.560 0.029 21289	7.560	8.9633	1.0891	156.7*	Endosulfan I A B
7.818	0.015 184896	----	----	3.8170	0.0000	---	Dieldrin
7.290	-0.026 93461	7.605 -0.027 19579	7.605	2.1375	0.9972	72.8*	4,4'-DDE A B
8.190	-0.009 154156	----	----	4.1725	0.0000	---	Endrin
8.582	-0.034 143305	8.936 -0.003 46684	8.936	3.7143	2.3108	46.6*	Endosulfan II A B
----		8.652 -0.036 50299	8.652	0.0000	2.8544	---	4,4'-DDD
10.668	-0.009 32332	10.616 0.026 12886	10.616	0.8607	0.6838	22.9	Endosulfan sulfate A B
8.870	0.034 85651	9.362 -0.039 110873	9.362	2.3613	6.3359	91.4*	4,4'-DDT A B
10.026	-0.007 122208	11.155 -0.040 64979	11.155	6.2737	7.6561	19.8	Methoxychlor A B
11.235	-0.028 142352	11.638 -0.002 27012	11.638	2.9734	1.1909	85.6*	Endrin ketone A B
----		9.731 -0.039 35304	9.731	0.0000	1.9885	---	Endrin aldehyde
----		7.228 0.009 116700	7.228	0.0000	5.5094	---	gamma-Chlordane
7.228	-0.012 65613	7.403 -0.016 25510	7.403	1.3325	1.2201	8.8	alpha-Chlordane A B
2.481	-0.040 21627	2.485 -0.033 22891	2.485	0.2858	0.6317	75.4*	Hexachlorobutadiene A B
5.022	-0.018 25302	5.133 -0.018 13828	5.133	0.5313	0.6326	17.4	Hexachlorobenzene A B
6.793	0.011 232970	6.871 0.007 71738	6.871	6.4387	4.2964	39.9	Oxychlordane A B
6.918	0.050 302215	7.152 -0.029 63013	7.152	10.2840	4.5831	76.7*	2,4-DDE A B
----		7.326 -0.017 42714	7.326	0.0000	2.0191	---	trans-Nonachlor
----		7.940 -0.022 45470	7.940	0.0000	3.4118	---	2,4-DDD
7.983	0.004 62780	8.559 0.037 104715	8.559	2.2962	7.6340	107.5*	2,4-DDT A B
8.239	-0.005 184032	----	----	3.9739	0.0000	---	cis-Nonachlor
10.421	0.002 79231	11.528 0.041 69145	11.528	2.2284	4.4230	66.0*	Mirex A B
12.968	-0.022 3037916	13.884 -0.024 1289852	13.884	80.0000	80.0000	0.0	Hexabromobiphenyl A B
1.814	-0.031 363	1.809 -0.017 6454	1.809	0.0000	0.0000	---	Hexachloroethane
4.637	-0.016 1109974	4.690 -0.015 623966	4.690	31.4844	35.9151	13.1	Tetrachloro-m-xylene A B
12.782	-0.021 1083067	13.299 -0.019 588866	13.299	31.2191	39.3393	23.0	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	78.7	89.8	78.7	29-110
Decachlorobiphenyl	78.0	98.3	78.0	18-151

RF71: 00894

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2496854	2363195	-5.4
Hexabromobiphenyl	3575051	3037916	-15.0

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1542232	1204468	-21.9
Hexabromobiphenyl	1636073	1289852	-21.2

* 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	8.745	0.017	185627	101.176	1	8.384	0.000	101873	155.363		
Toxaphene	2	---	---	---	0.000	2	9.114	0.005	12868	12.519		
Toxaphene	3	9.474	-0.005	88307	74.814	3	9.731	-0.015	35304	31.367		
Toxaphene	4	10.421	-0.002	79231	40.609	4	11.044	-0.014	45033	49.766		
Toxaphene	5	11.235	0.040	142352	125.710	5	11.805	0.027	23673	54.015		
Toxaphene	6	11.469	-0.045	357388	495.565	NS	---	---	---	---		
Total STX-CLPAve (5 peaks):					167.575	Total CLP2Ave (5 peaks):					60.606	RPD = 94*
Corrected Ave (4 peaks):					85.577	Corrected Ave (4 peaks):					36.917	RPD = 79*

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

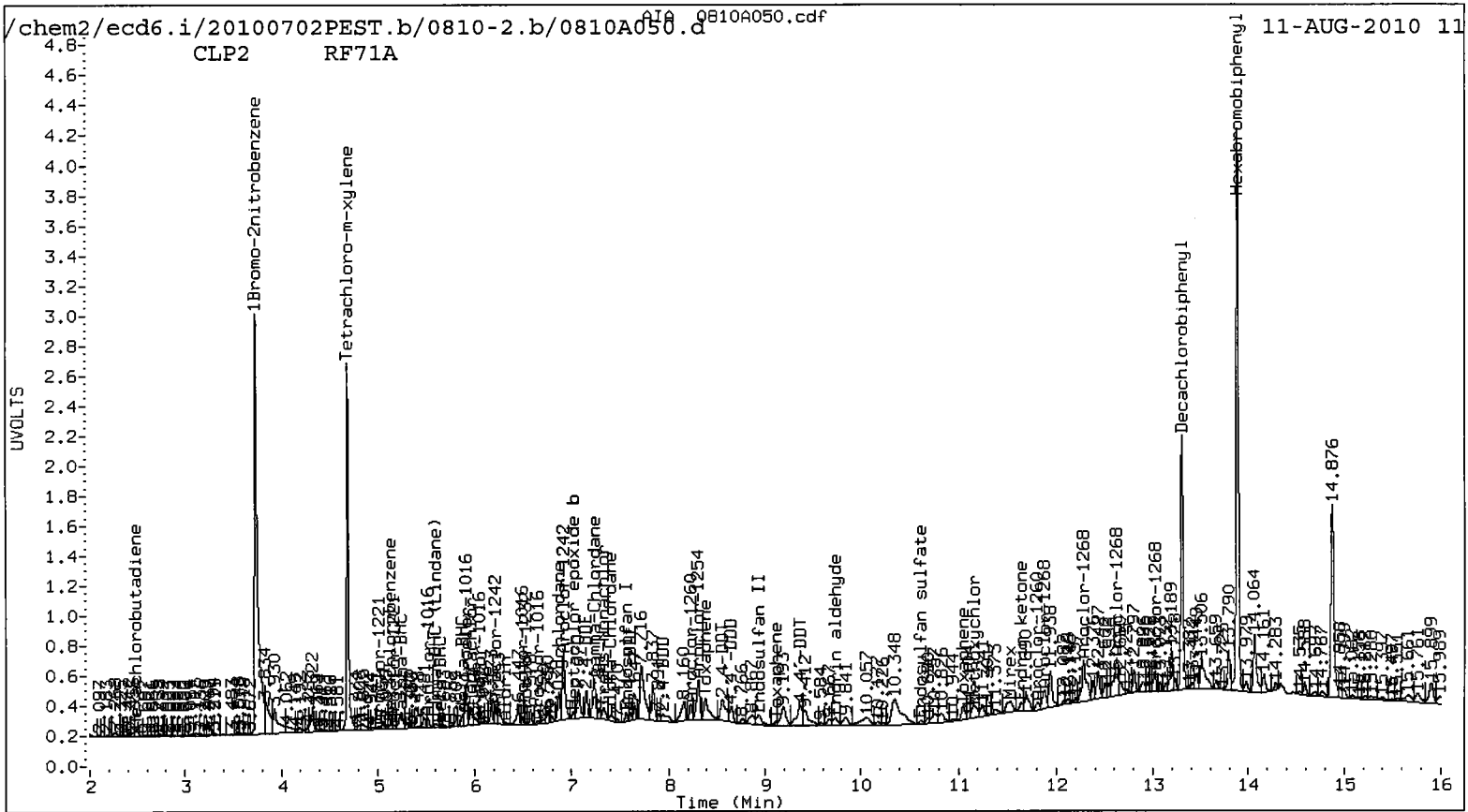
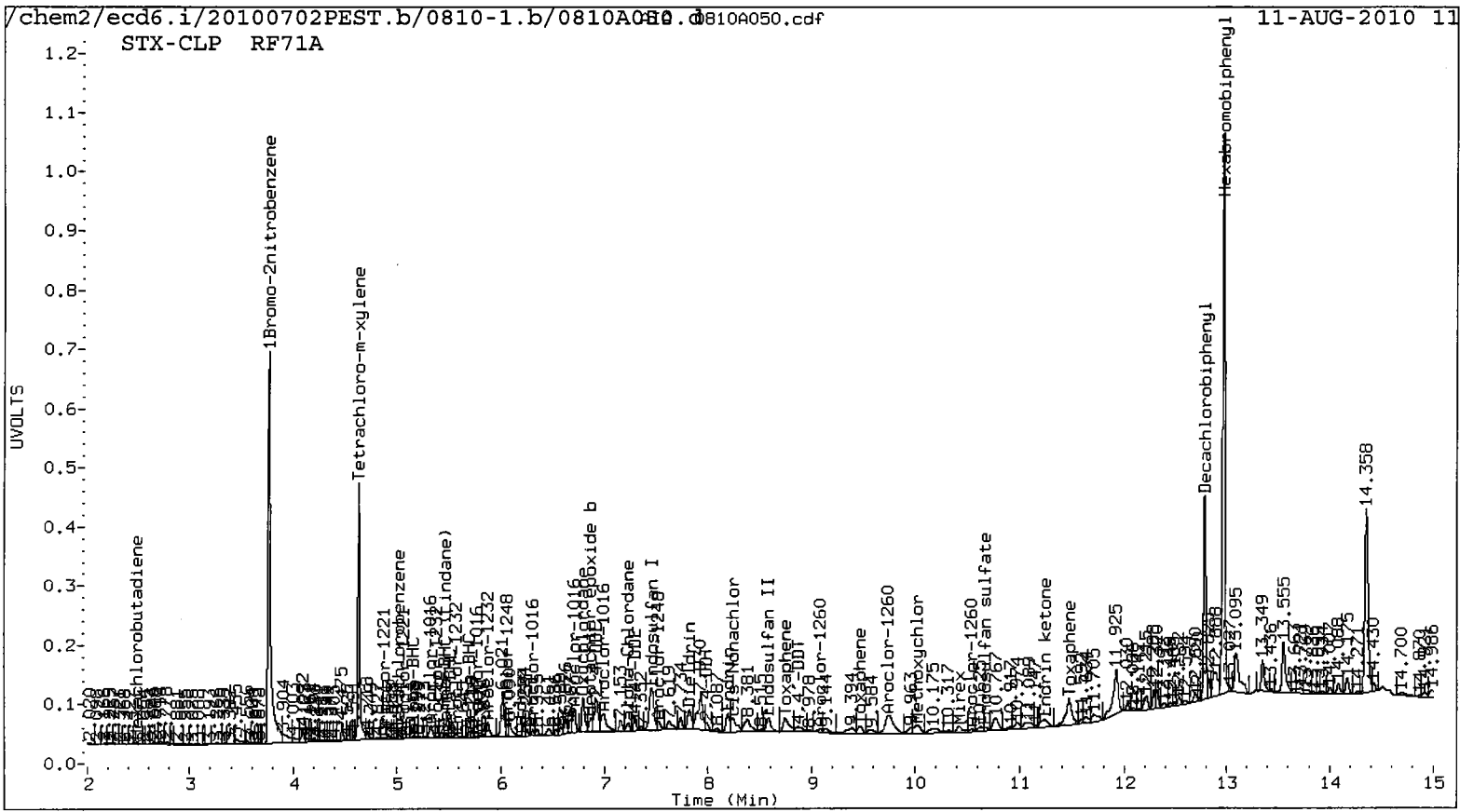
Aroclor-1221	1	---	---	---	0.000	1	---	---	---	0.000	
Aroclor-1221	2	---	---	---	0.000	2	---	---	---	0.000	
Aroclor-1221	3	---	---	---	0.000	3	---	---	---	0.000	
Aroclor-1221	4	---	---	---	0.000	4	---	---	---	0.000	
STX-CLPAve:					<3 Quant Peaks	CLP2Ave:					<3 Quant Peaks

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		

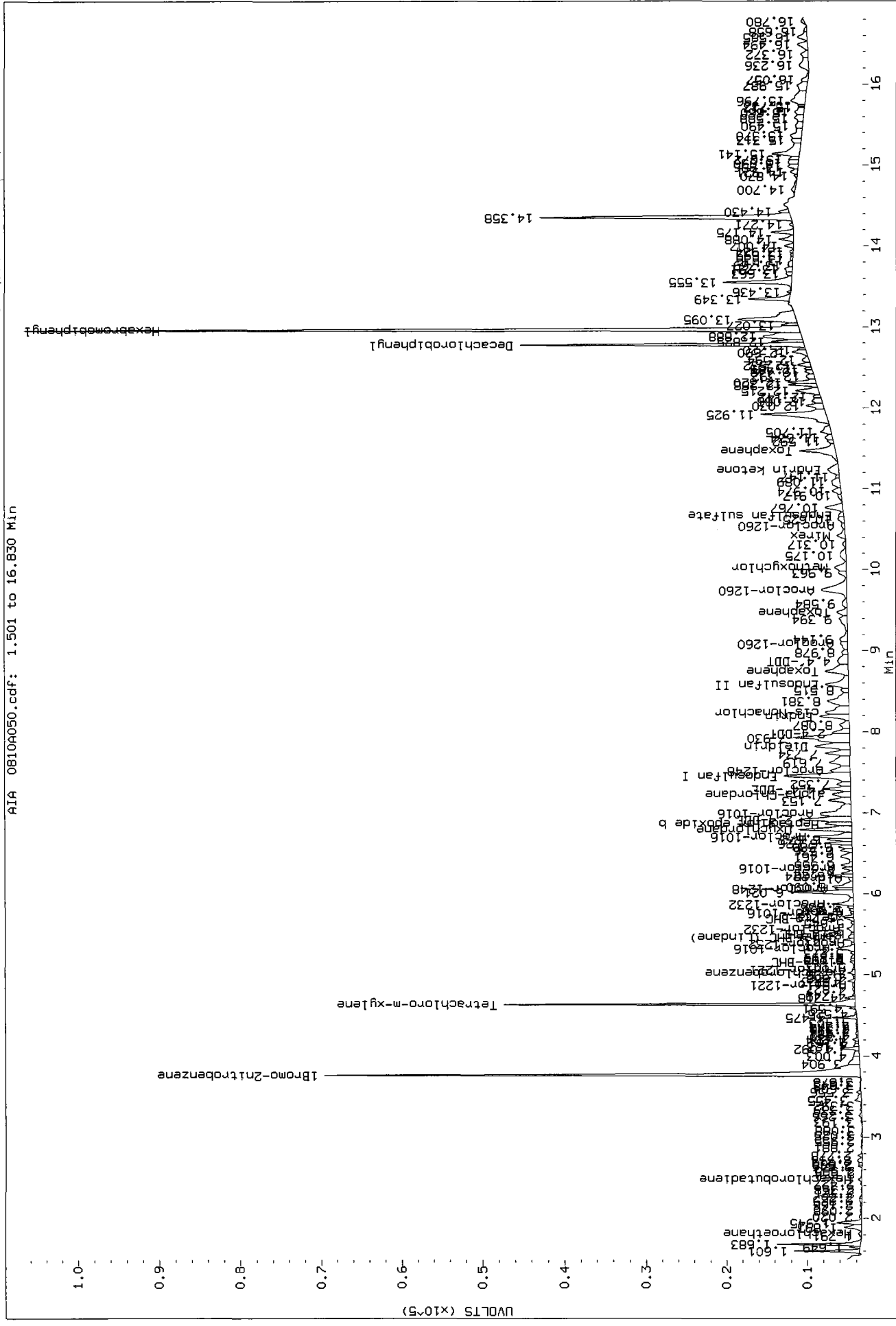


RF71:00897

Data File: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A050.d/0810A050.cdf
 Injection Date: 11-AUG-2010 11:57
 Instrument: ecd6.i
 Client Sample ID: BW-07-5C-COMP-10072

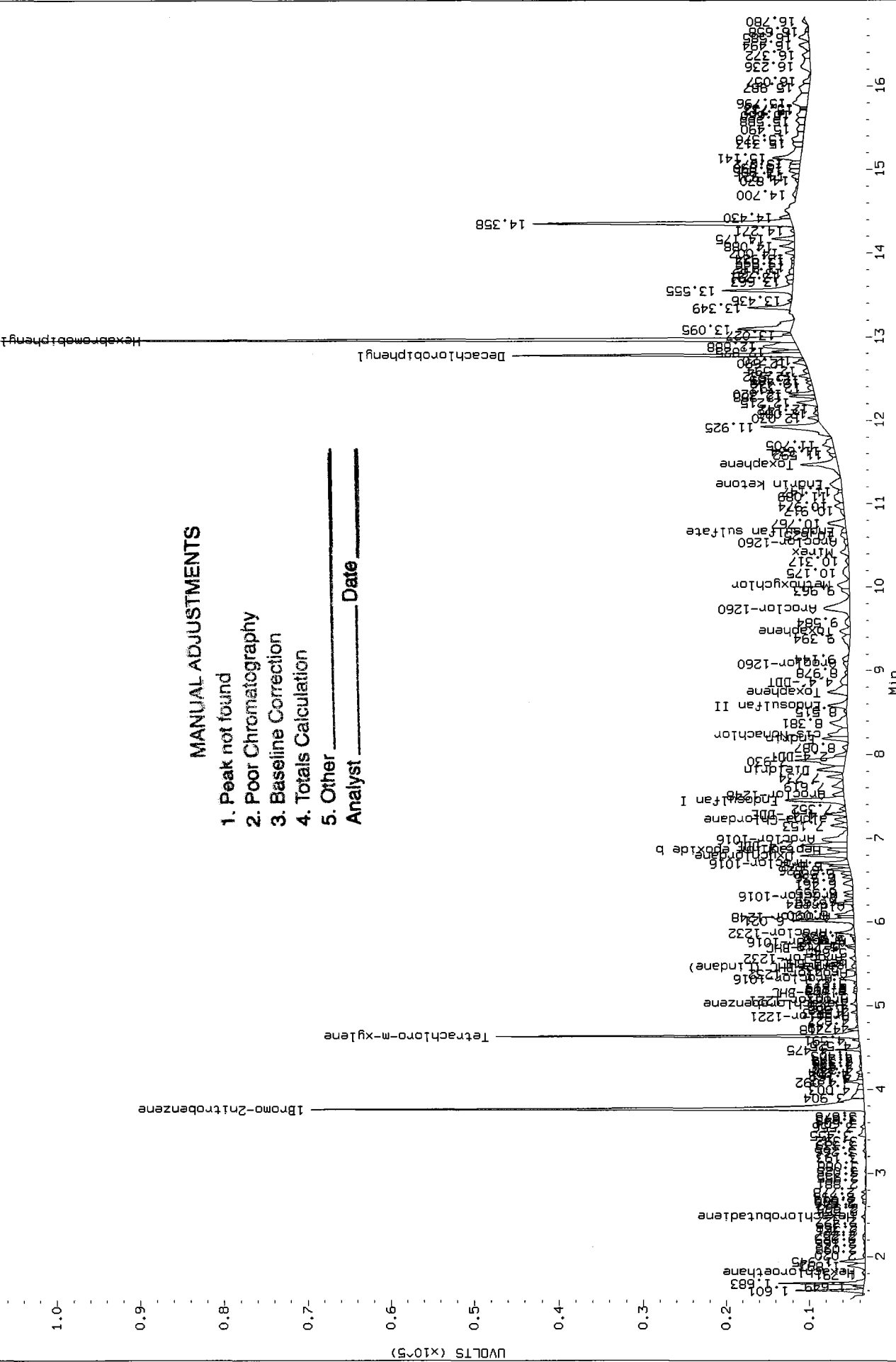
Refer AR-8/12/2010

AIA 0810A050.cdf: 1.501 to 16.830 Min



Data File: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A050.d/0810A050.cdf
 Injection Date: 11-AUG-2010 11:57
 Instrument: ecd6.i
 Client Sample ID: BW-07-SC-CDMP-10072

AIA 0810A050.cdf: 1.501 to 16.830 Min



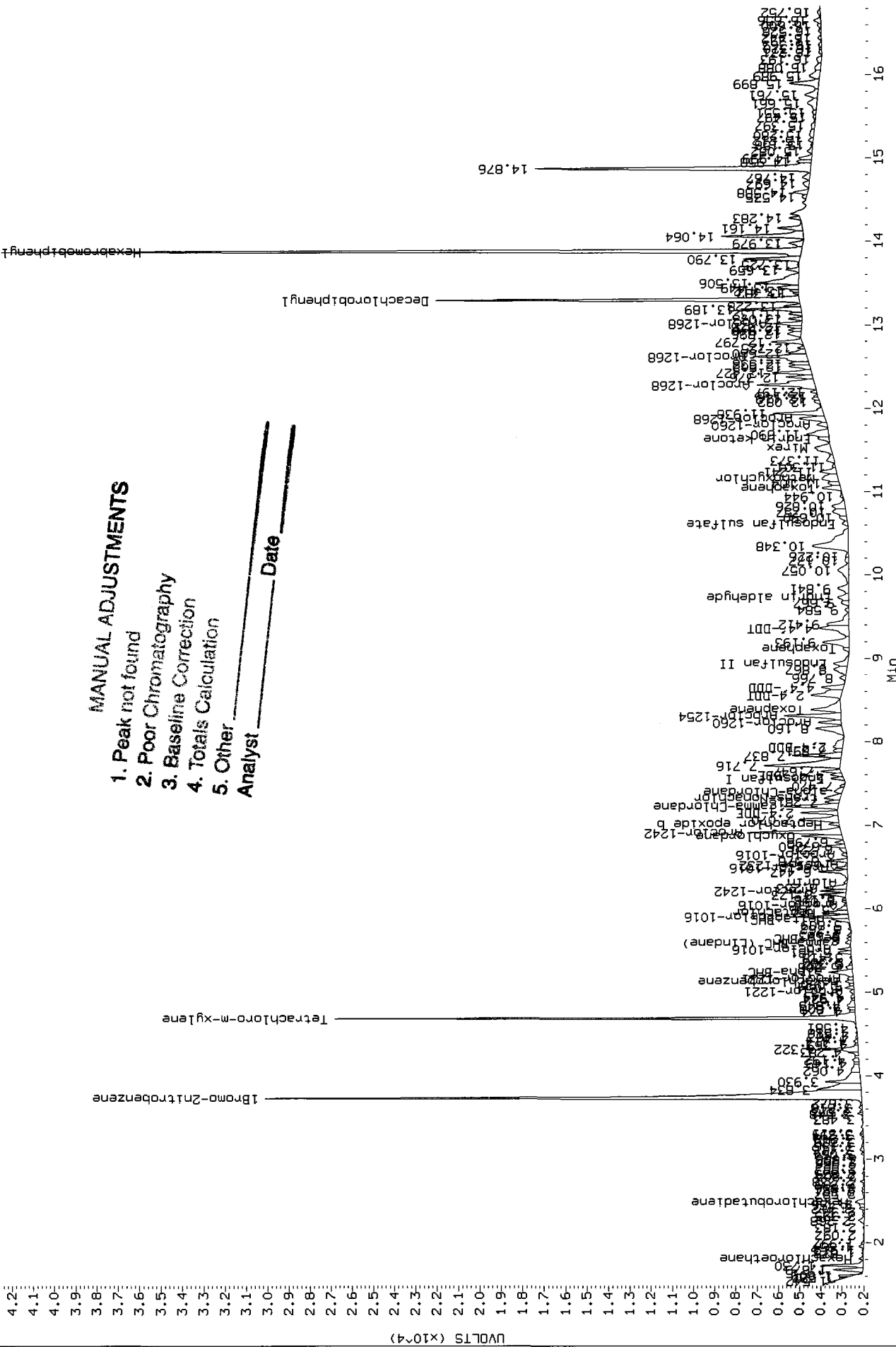
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date _____

Data File: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A050.d/0810A050.cdf
 Injection Date: 11-AUG-2010 11:57
 Instrument: ecd6.i
 Client Sample ID: BW-07-SC-COMP-10072

AIA 0810A050.cdf: 1.501 to 16.831 Min



MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date _____

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: DS

ARI Job No.: 20100702PEST

Analysis Date: 11-AUG-2010 13:21

Init. Calib. Date: 02-JUL-2010

GC Column: STX-CLP1 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4'-DDE	7.296	27442
Endrin	8.165	4035722
4,4'-DDD	8.251	449156
4,4'-DDT	8.800	3436776
Endrin ketone	11.227	524567
Endrin aldehyde	9.483	177361

DDT Percent Breakdown = 12.2 %
 $((27442+449156) * 100) / (27442+449156+3436776)$

Endrin Percent Breakdown = 14.8 %
 $((177361+524567) * 100) / (177361+524567+4035722)$

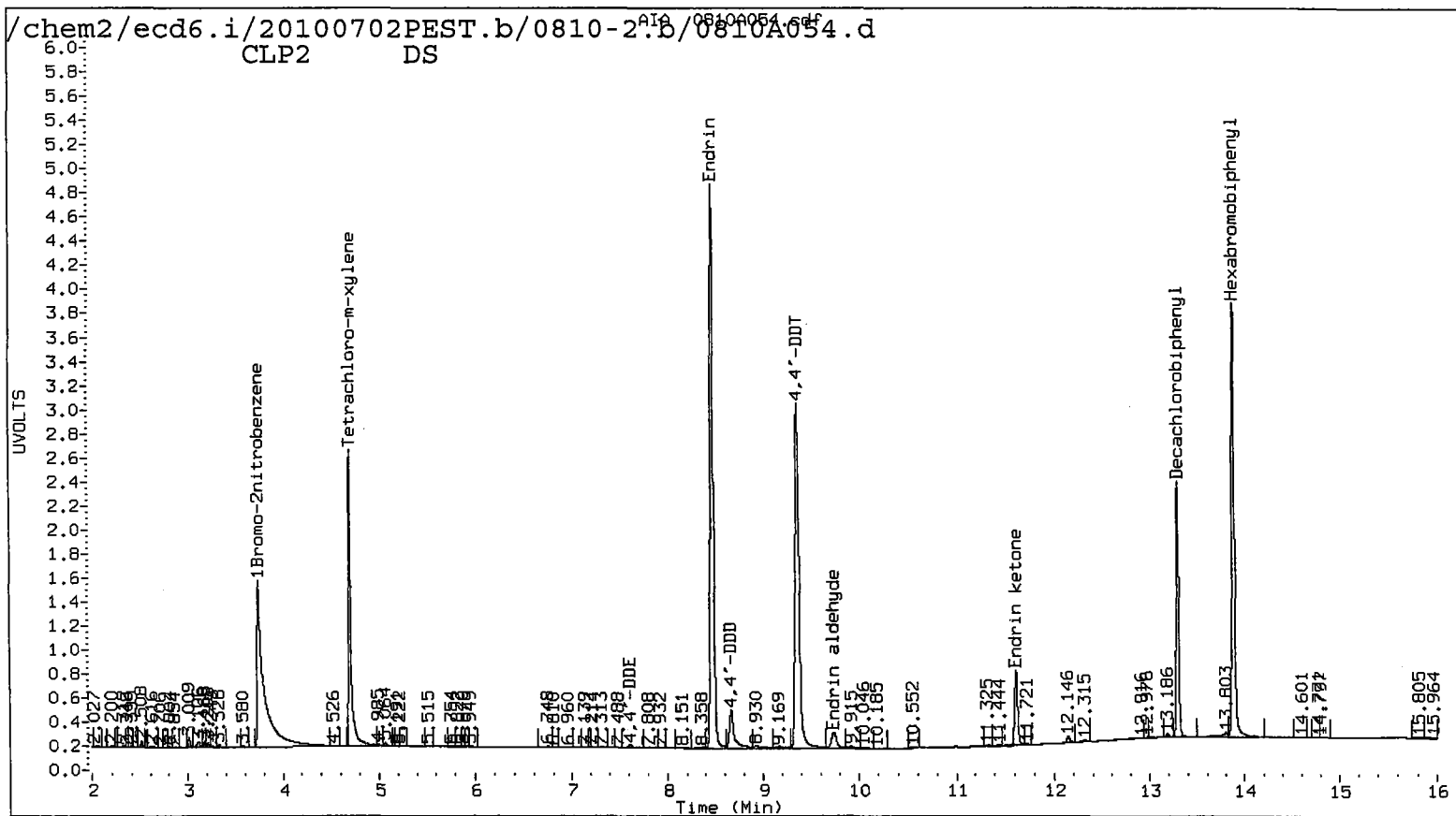
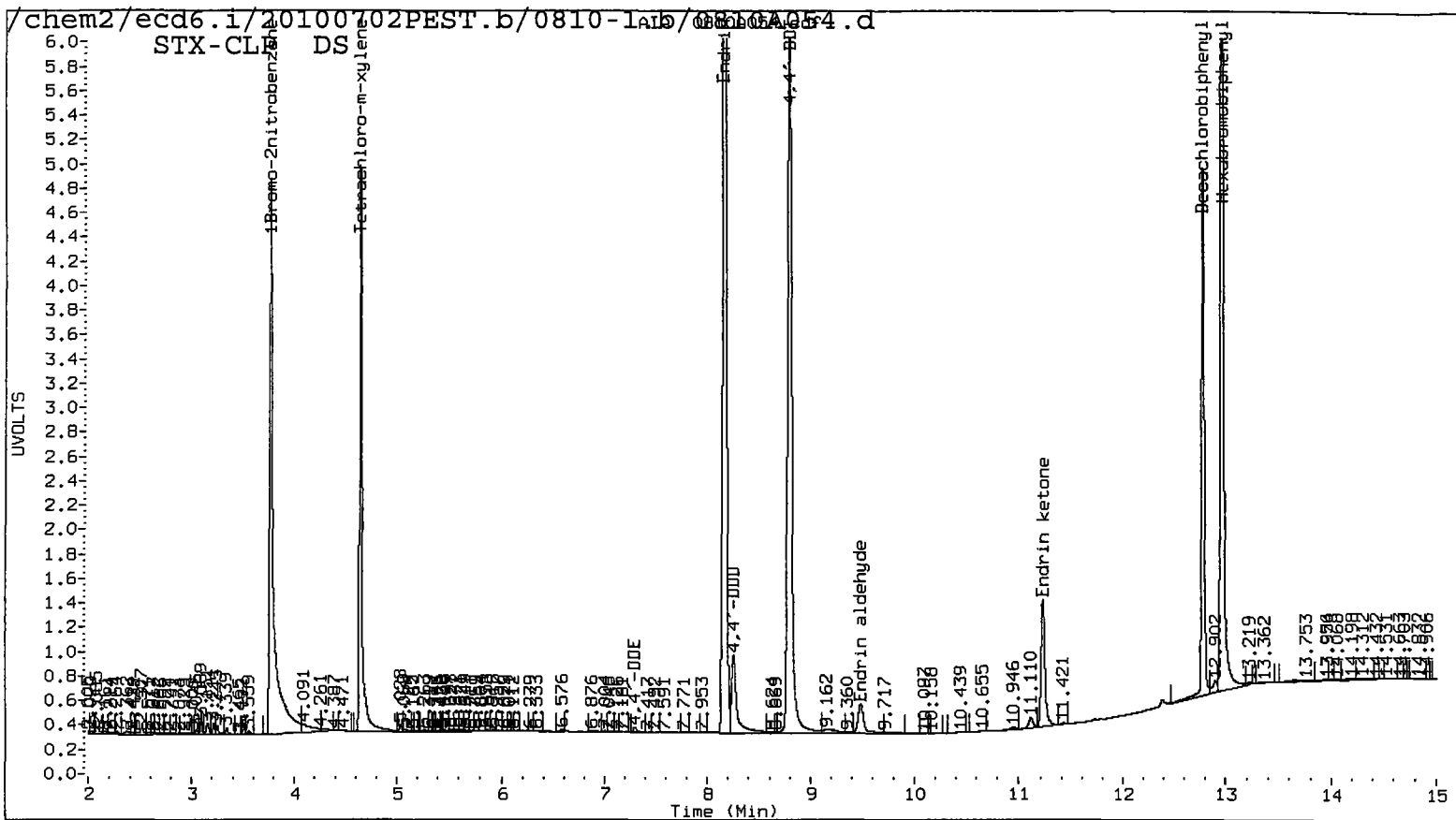
GC Column: STX-CLP2 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4'-DDE	7.614	13965
Endrin	8.472	2108707
4,4'-DDD	8.662	220509
4,4'-DDT	9.364	1696084
Endrin ketone	11.614	255317
Endrin aldehyde	9.734	91557

DDT Percent Breakdown = 12.1 %
 $((13965+220509) * 100) / (13965+220509+1696084)$

Endrin Percent Breakdown = 14.1 %
 $((91557+255317) * 100) / (91557+255317+2108707)$

Form VII Pest-1



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A055.d ARI ID: INDAE CCAL
 Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A055.d Client ID:
 Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 13:42
 Compound Sublist: INDA Report Date: 08/11/2010 17:45
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
3.769	-0.014 2552216	3.742 -0.012 1500812	3.742	-0.012 1500812	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
5.178	-0.015 1224810	5.262 -0.012 663708	5.262	-0.012 663708	20.6983	20.4869	1.0	alpha-BHC A B
5.539	-0.014 537375	5.648 -0.011 278846	5.648	-0.011 278846	21.3004	19.5032	8.8	beta-BHC A B
5.708	-0.015 1011848	5.909 -0.013 508350	5.909	-0.013 508350	19.7895	19.5515	1.2	delta-BHC A B
5.460	-0.015 1061193	5.573 -0.012 581734	5.573	-0.012 581734	20.4435	20.4621	0.1	gamma-BHC (Lindane) A B
5.909	-0.017 1091221	5.989 -0.014 581452	5.989	-0.014 581452	19.9190	19.5464	1.9	Heptachlor A B
6.213	-0.019 1038355	6.316 -0.015 537601	6.316	-0.015 537601	19.6925	20.1186	2.1	Aldrin A B
6.883	-0.024 1029940	6.966 -0.018 539811	6.966	-0.018 539811	19.2251	19.2674	0.2	Heptachlor epoxide b A B
7.413	-0.029 1037526	7.508 -0.022 500382	7.508	-0.022 500382	20.1597	20.5433	1.9	Endosulfan I A B
7.772	-0.030 2145824	7.933 -0.025 1134498	7.933	-0.025 1134498	41.0180	42.1005	2.6	Dieldrin A B
7.292	-0.024 1835975	7.609 -0.023 996810	7.609	-0.023 996810	38.8806	40.7449	4.7	4,4'-DDE A B
8.164	-0.035 1836273	8.471 -0.029 969423	8.471	-0.029 969423	42.0549	43.2682	2.8	Endrin A B
8.579	-0.037 1853815	8.907 -0.032 1010168	8.907	-0.032 1010168	40.6560	42.6161	4.7	Endosulfan II A B
8.248	-0.033 1814708	8.659 -0.029 912429	8.659	-0.029 912429	41.5799	44.1293	5.9	4,4'-DDD A B
10.631	-0.046 1748021	10.552 -0.038 862173	10.552	-0.038 862173	39.3719	38.9941	1.0	Endosulfan sulfate A B
8.799	-0.037 1631576	9.364 -0.036 776400	9.364	-0.036 776400	38.0609	37.8134	0.7	4,4'-DDT A B
9.985	-0.048 4320844	11.167 -0.029 1887654	11.167	-0.029 1887654	187.6885	189.5542	1.0	Methoxychlor A B
11.226	-0.037 2226069	11.614 -0.026 1091965	11.614	-0.026 1091965	39.3432	41.0317	4.2	Endrin ketone A B
9.482	-0.048 1446923	9.733 -0.037 764556	9.733	-0.037 764556	35.7566	36.7018	2.6	Endrin aldehyde A B
7.040	-0.025 1041013	7.199 -0.021 539949	7.199	-0.021 539949	19.7253	20.4577	3.6	gamma-Chlordane A B
7.215	-0.025 1015121	7.397 -0.022 530805	7.397	-0.022 530805	19.0890	20.3743	6.5	alpha-Chlordane A B
2.508	-0.013 1586197	2.508 -0.010 882285	2.508	-0.010 882285	19.4117	19.5407	0.7	Hexachlorobutadiene A B
5.027	-0.013 1018970	5.141 -0.010 577066	5.141	-0.010 577066	19.8102	21.1872	6.7	Hexachlorobenzene A B
12.968	-0.022 3590293	13.884 -0.023 1513427	13.884	-0.023 1513427	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.641	-0.013 1541424	4.695 -0.010 895849	4.695	-0.010 895849	40.4843	41.3828	2.2	Tetrachloro-m-xylene A B
12.780	-0.024 1519714	13.297 -0.021 734159	13.297	-0.021 734159	37.0658	41.8002	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	101.2	103.5	101.2~	115- 0
Decachlorobiphenyl	92.7	104.5	92.7~	115- 0

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	2496854	2552216	2.2
Hexabromobiphenyl	3575051	3590293	0.4

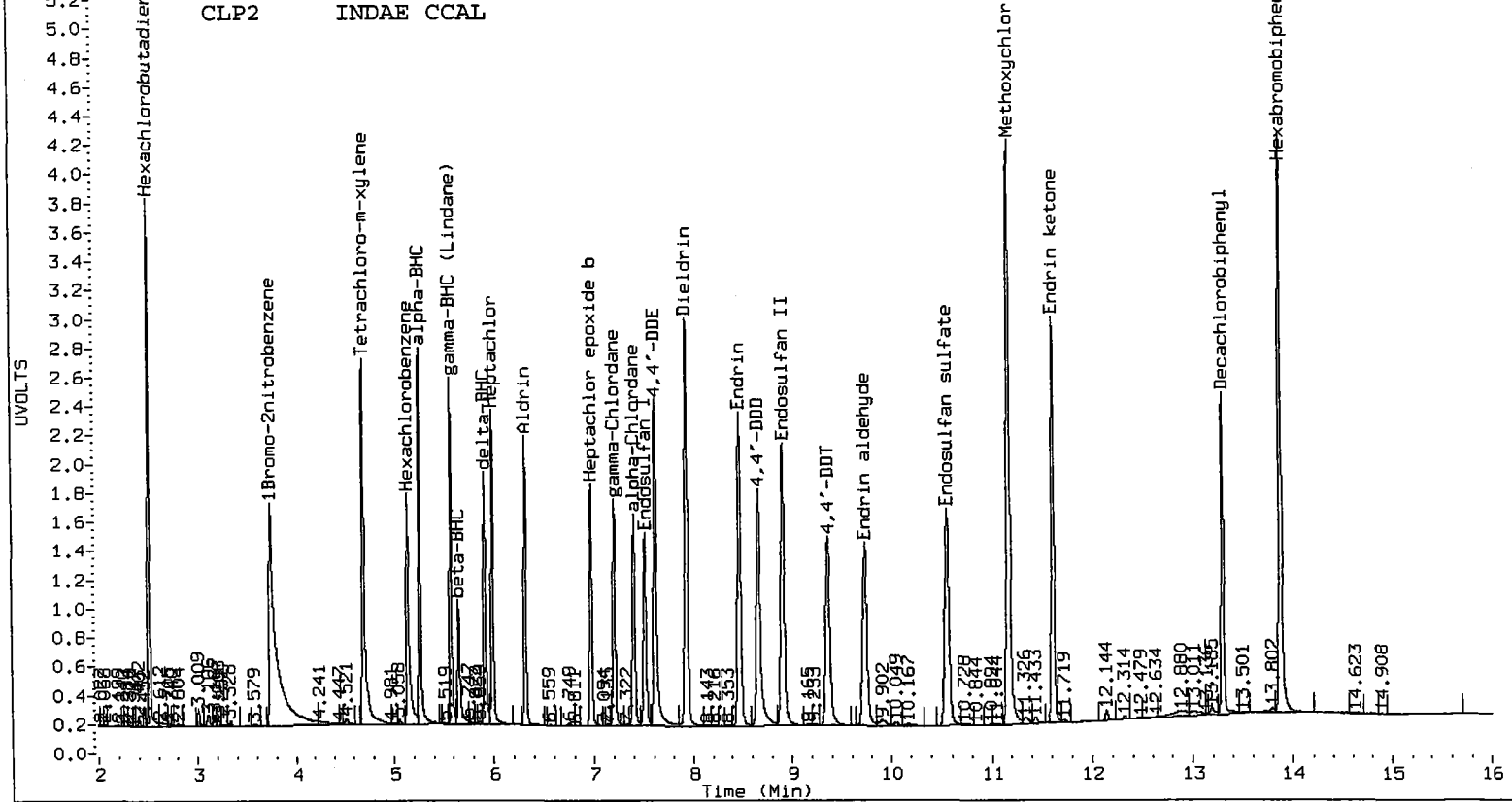
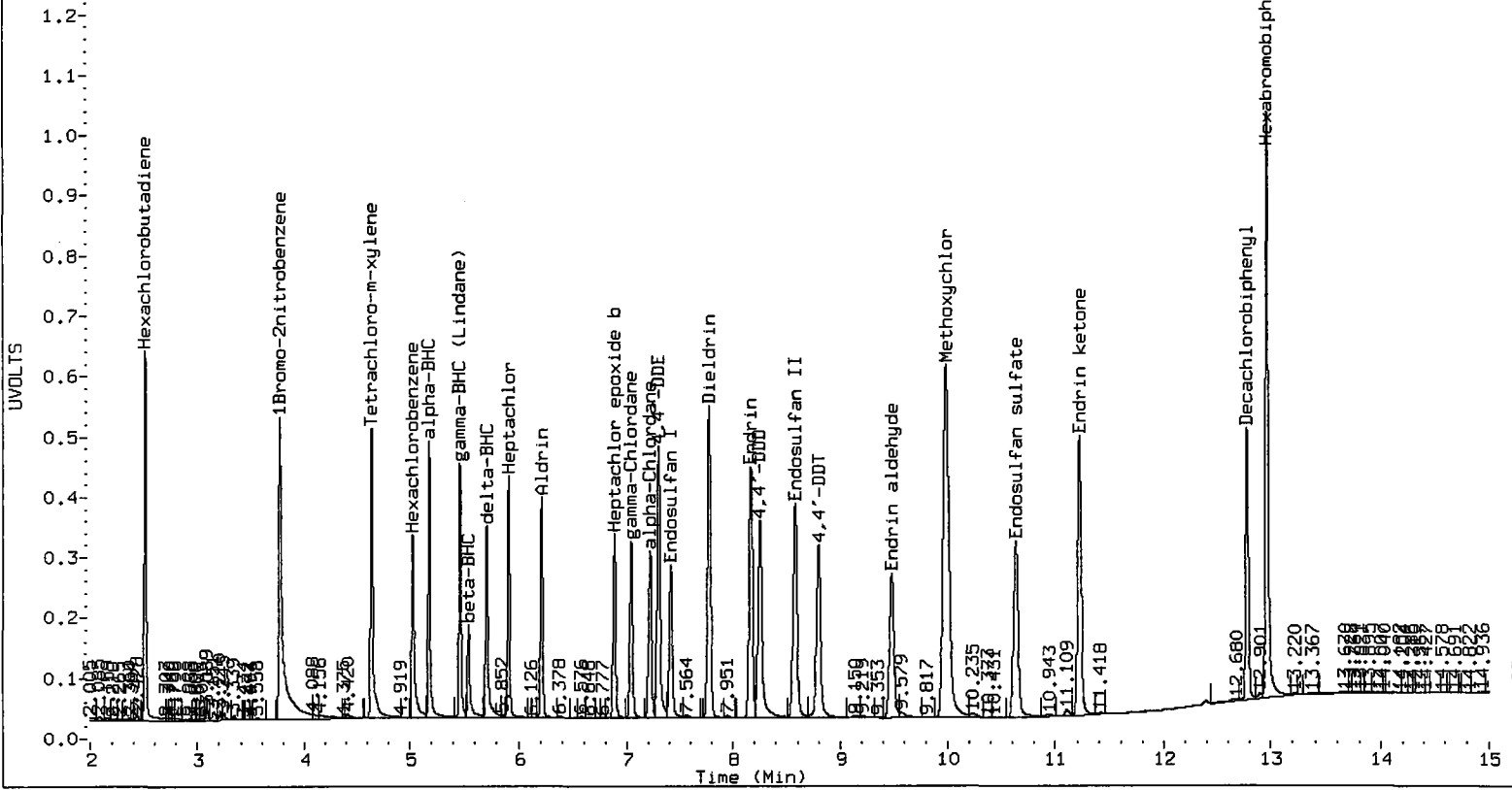
Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	1542232	1500812	-2.7
Hexabromobiphenyl	1636073	1513427	-7.5

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 02-JUL-2010

<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col			
			Shift	Height	Amount			Shift	Height	Amount	
=====											



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A056.d ARI ID: TOXAPH 2500
 Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A056.d Client ID:
 Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 14:03
 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	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.769	-0.013	2401597	3.744	-0.010	1431406	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
12.968	-0.022	3429393	13.884	-0.023	1437314	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.641	-0.012	1431675	4.695	-0.009	846875	39.9601	41.0174	2.6	Tetrachloro-m-xylene A B
12.780	-0.023	1505518	13.297	-0.020	692341	38.4423	41.5067	7.7	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	102.5	99.9~	150- 0
Decachlorobiphenyl	96.1	103.8	96.1~	150- 0

~ Indicates recovery outside QC Limits

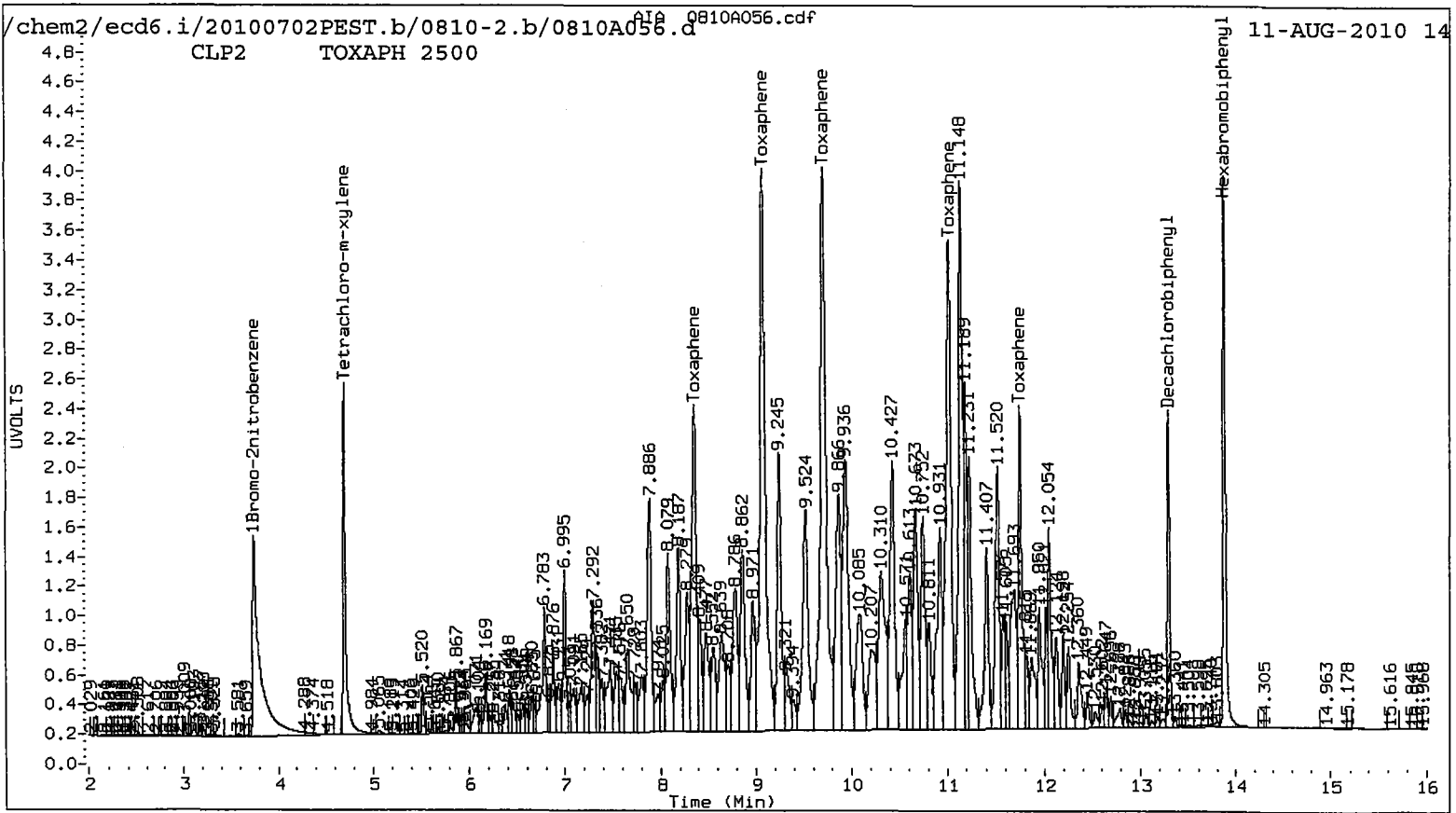
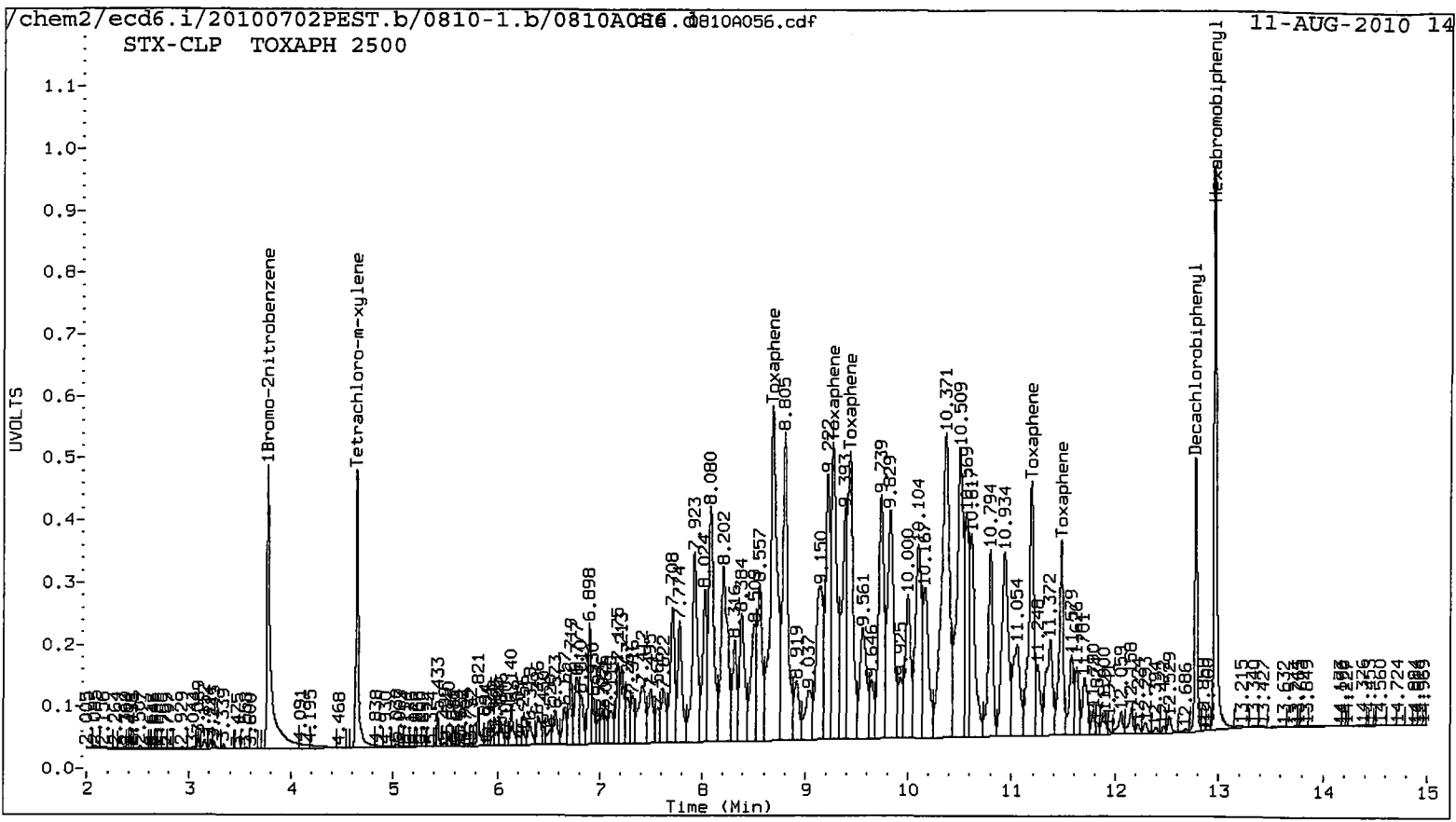
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	2496854	2401597	-3.8
Hexabromobiphenyl	3575051	3429393	-4.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	1542232	1431406	-7.2
Hexabromobiphenyl	1636073	1437314	-12.1

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 02-JUL-2010
 <- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col			
			Shift	Height	Amount			Shift	Height	Amount	
Toxaphene	1	8.690	-0.038	5130121	2476.971	1	8.356	-0.028	1532035	2096.750	
Toxaphene	2	9.275	-0.042	3562161	2328.784	2	9.076	-0.033	3035515	2650.173	
Toxaphene	3	9.437	-0.042	3379473	2536.238	3	9.709	-0.037	3233686	2578.283	
Toxaphene	4	---	---	---	0.000	4	11.027	-0.031	2396880	2377.009	
Toxaphene	5	11.191	-0.004	2830710	2214.420	5	11.754	-0.024	1129752	2313.301	
Toxaphene	6	11.481	-0.033	1762933	2165.481	NS	---	---	---	---	
Total STX-CLPAve (5 peaks):					2344.379	Total CLP2Ave (5 peaks):					2403.103 RPD = 2
Corrected Ave (5 peaks):					2344.379	Corrected Ave (5 peaks):					2403.103 2479.56 RPD = 2



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /chem2/ecd6.i/20100702PEST.b/0810-1.b/0810A057.d ARI ID: WNDE CCAL
 Data file 2: /chem2/ecd6.i/20100702PEST.b/0810-2.b/0810A057.d Client ID:
 Method: /chem2/ecd6.i/20100702PEST.b/PEST0702.m Injection Date: 11-AUG-2010 14:24
 Compound Sublist: WND Report Date: 08/11/2010 17:45
 Instrument, Inj. Vol.: ecd6.i, 1ul Matrix: NONE
 Operator: ar Dilution Factor: 1.000

RT	STX-CLP Col Shift Response	CLP2 Col Shift Response	RT	CLP2 Col Shift Response	STX-CLP on col	CLP2 on col	RPD	Compound/Flag
1.833	-0.012 304	1.820 -0.006 4404	1.820	-0.006 4404	0.0000	0.0000	---	Hexachloroethane
3.770	-0.013 2479254	3.745 -0.009 1495234	3.745	-0.009 1495234	80.0000	80.0000	0.0	1Bromo-2nitrobenzene A B
6.762	-0.020 1596913	6.849 -0.015 794260	6.849	-0.015 794260	38.4404	38.3181	0.3	Oxychlorthane A B
6.849	-0.019 1280128	7.164 -0.016 652062	7.164	-0.016 652062	37.9409	38.2037	0.7	2,4-DDE A B
7.190	-0.022 2045319	7.325 -0.018 1022845	7.325	-0.018 1022845	42.1050	41.2928	1.9	trans-Nonachlor A B
7.545	-0.024 1204543	7.940 -0.022 652709	7.940	-0.022 652709	42.9600	41.8259	2.7	2,4-DDD A B
7.952	-0.026 1293672	8.495 -0.027 619216	8.495	-0.027 619216	41.2126	38.5537	6.7	2,4-DDT A B
8.215	-0.029 2323207	8.607 -0.027 1159900	8.607	-0.027 1159900	43.6933	42.3164	3.2	cis-Nonachlor A B
10.374	-0.045 1654283	11.463 -0.024 718075	11.463	-0.024 718075	40.5239	39.2287	3.2	Mirex A B
12.969	-0.021 3487928	13.885 -0.023 1510297	13.885	-0.023 1510297	80.0000	80.0000	0.0	Hexabromobiphenyl A B
4.641	-0.012 1495127	4.696 -0.009 863993	4.696	-0.009 863993	40.4240	40.0602	0.9	Tetrachloro-m-xylene A B
12.781	-0.023 1481529	13.298 -0.020 746115	13.298	-0.020 746115	37.1949	42.5690	13.5	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	101.1	100.2	100.2~	150- 0
Decachlorobiphenyl	93.0	106.4	93.0~	150- 0

~ Indicates recovery outside QC Limits

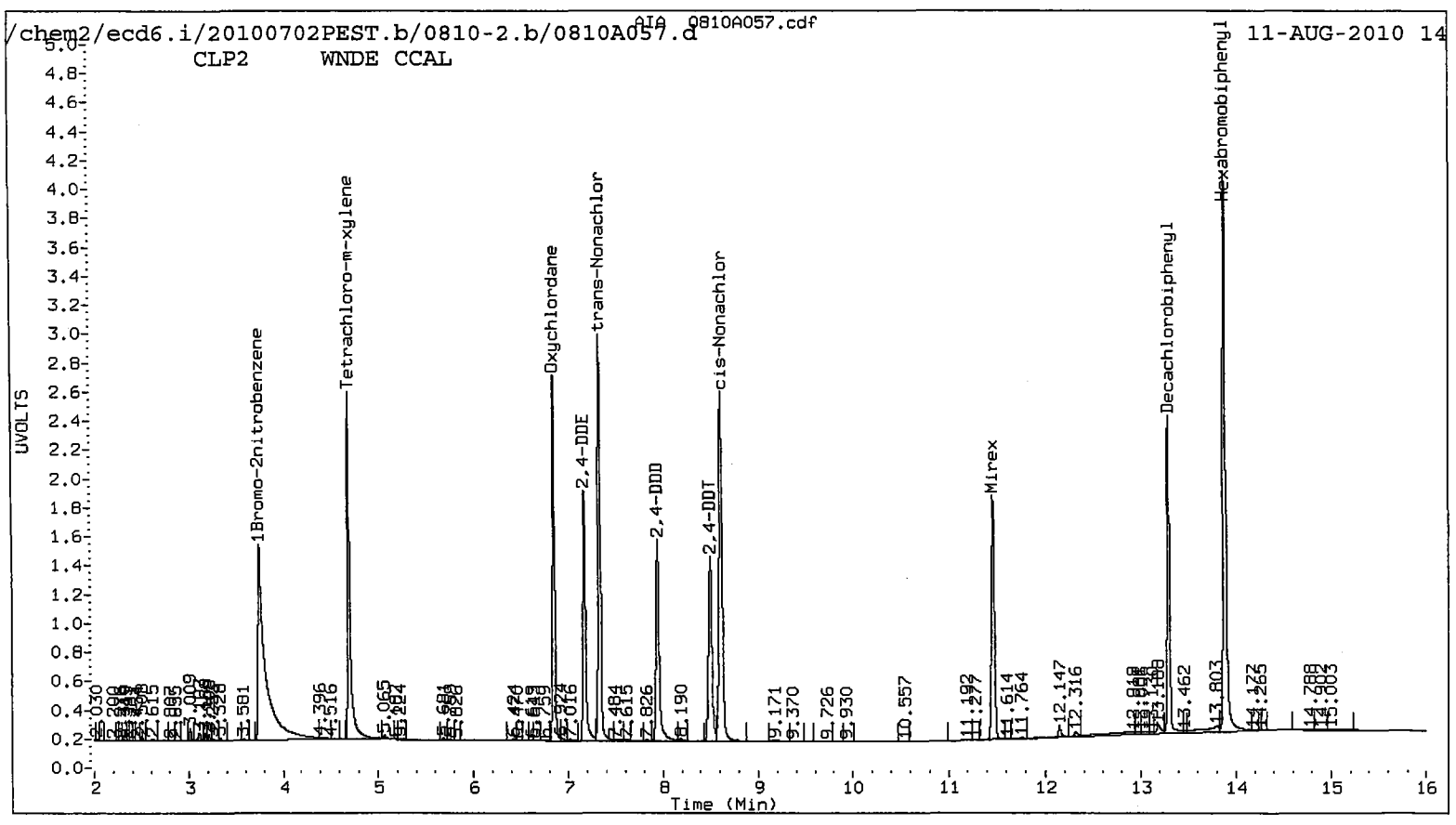
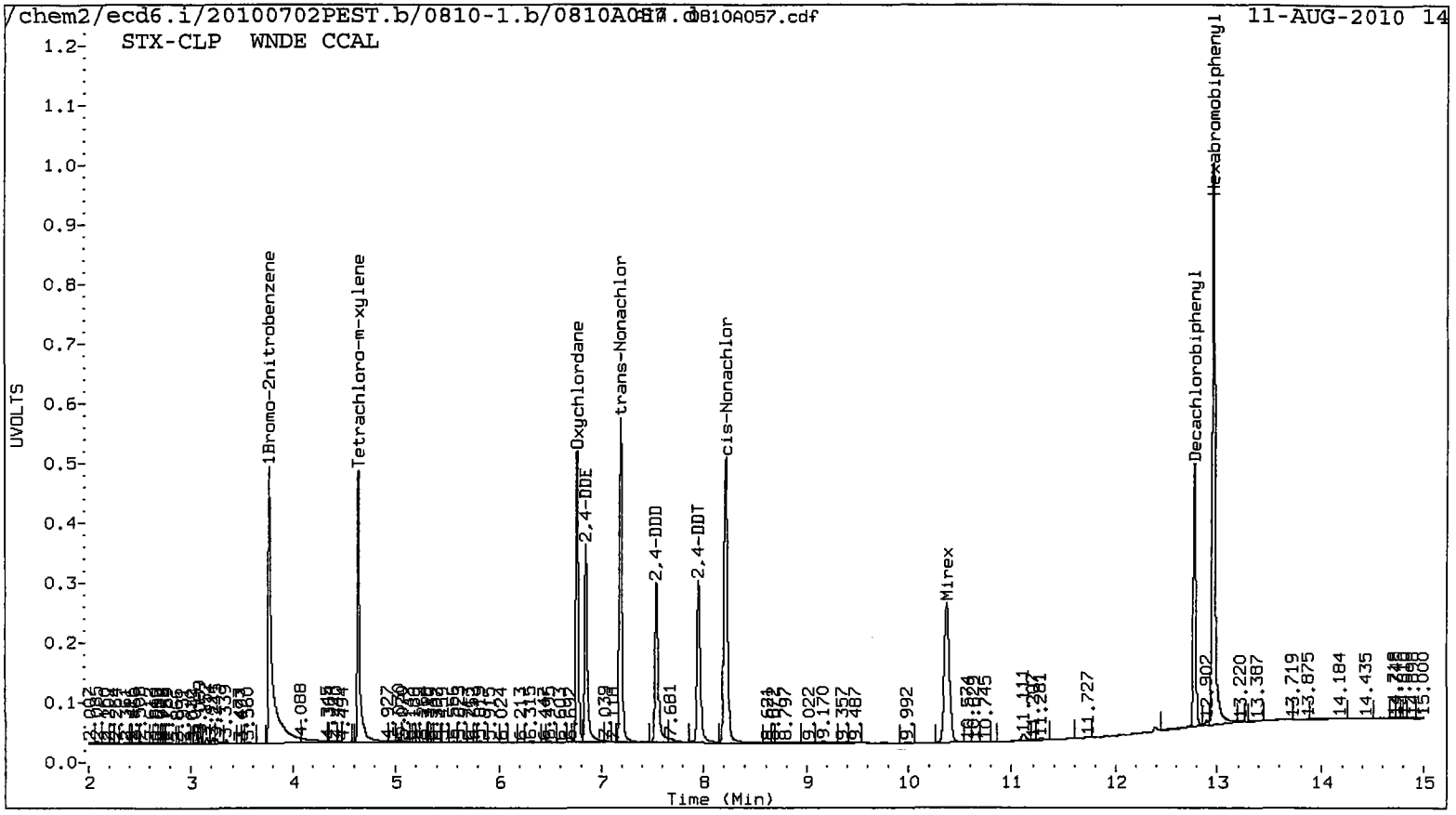
INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	2496854	2479254	-0.7
Hexabromobiphenyl	3575051	3487928	-2.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	1542232	1495234	-3.0
Hexabromobiphenyl	1636073	1510297	-7.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 02-JUL-2010
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	STX-CLP Col			Peak#	RT	CLP2 Col		
			Shift	Height	Amount			Shift	Height	Amount
=====										



**PCB Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: RF71



Preparation Test PCB # 6

ARI Job No(s) RF71

PSDDA (10 ppb) ^{20 ppb}
Batch set up by: JH

Bottle #	ARI Sample I.D.	Verify Client ID	Volume Extracted (dry wt)	Sonic Horn ID	KD Exchange To Hexane (X 2)	Turbo Vap	(REQ) Acid Clean	(REQ) Sulfur Clean	(Opt) Silica Gel Clean (1:2.5) Y/N	Turbo Vap	Final Effective Volume	Volume to Lab	Comments
	MBS RF71	Date 07/07/10	25.00g 12.542	10		① 2 3	2.5mL	2.5mL	1mL		2.5mL	1mL	10g Actual Weight
	SBS		↓	9			↓	↓	↓		↓	↓	↓
	SBSDup		↓	8			↓	↓	↓		↓	↓	↓
1	A	checked	21.01	7									

Analyst/Date AR 08/07/10 → RF 08/09/10 → 08/09/10 → 08/09/10

Standard Surrogate	Standard ID	Volume	Expiration Date	Analyst	Witness
Spike	N ₂	50µL	12/29/10	AR	JH
	1	63µL	3/31/11	AR	JH

Extraction Time: 8:35 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. 12. TurboVap (if Silica Clean). 13. Vial with Hexane.

A. Need Total Solids Y/N
B. Archive/Freeze Y/N



ARI Job No.: RF71

Client ID: Anchor QEA

Parameter: PCB PSDPA

Client Project: Bay Wood

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	<u>JW/7/28/10</u>
<input type="checkbox"/> No Anomalies (standard soil/sediment)	↓
<input type="checkbox"/> Wet sediment/sludge=	
<input type="checkbox"/> Standing Water Decanted=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input checked="" type="checkbox"/> <u>Clay</u> (Difficult to homogenize/Mixed with Kitchen Aid)= <u>A</u>	
<input type="checkbox"/> Rocks/Organics=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates=	
<input type="checkbox"/> Emulsions=	
<input type="checkbox"/> Other (Details)=	
<input checked="" type="checkbox"/> Other Notes/Comments= <u>Due to limited volume received, extracted 12.5g dry to a 2.5mL final volume to achieve requested detection limits.</u>	<u>JH 8/7/10</u>

**PCB Raw Data
Initial Calibration**

ARI Job ID: RF71



GC Analyst Notes / Corrective Action Log

ARI Project ID: _____ Client ID: _____

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): PCB's TCMX DCB DDT'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: 08/06/10 Analysis Start: 08/06/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO NA
ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO NA
CCal Meets RF & %RSD Criteria? YES / NO Surrogate Recovery In Control? YES / NO
Manual Integrations for ICal? YES / NO Manual Integrations for Samples? YES / NO
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): spiked 62 & 68 @ 1250 for ICD's R 08/07/10
62 ICD low ~2% R 08/07/10

Additional Details on Reverse: Yes NO

Analyst: _____ JK Date: 08/07/10

Reviewer: _____ BAM Date: 8/9/10

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: 08/06/10 Analysis: PCBs Analyst: Y
 GC Program: PCB2 Column No: #5636/167M/S Column Type: EP35/EP5
 Instrument Tune (.U or .CT.): N/A EM Voltage: N/A
 Calibration File: N/A Curve Date: 08/06/10

IS/SS	Ical/Ccal	LCS/ICV
<u>716-3</u>	<u>1721-3</u>	<u>1692-1,2,3</u>
	<u>1690-2,3</u>	<u>1693-1,2,3</u>
	<u>1691-1,2,3</u>	

Inject Date/Time	Filename	DF	LabID
1 06-AUG-2010 12:05	0806B001.d	1	RINSE
2 06-AUG-2010 12:23	0806B002.d	1	AR1242
3 06-AUG-2010 12:42	0806B003.d	1	AR1660
4 06-AUG-2010 13:01	0806B004.d	1	RF49B
5 06-AUG-2010 13:20	0806B005.d	1	RF49F
6 06-AUG-2010 13:39	0806B006.d	1	AR1254
7 06-AUG-2010 13:58	0806B007.d	1	AR1660
8 06-AUG-2010 13:55	0806B008.d	1	RINSE
9 06-AUG-2010 16:14	0806B009.d	1	RINSE
10 06-AUG-2010 16:33	0806B010.d	1	RINSE
11 06-AUG-2010 16:52	0806B011.d	1	RINSE
12 06-AUG-2010 17:11	0806B012.d	1	RINSE
13 06-AUG-2010 17:29	0806B013.d	1	RINSE
14 06-AUG-2010 17:48	0806B014.d	1	RINSE
15 06-AUG-2010 18:07	0806B015.d	1	RINSE
16 06-AUG-2010 18:26	0806B016.d	1	RINSE
17 06-AUG-2010 18:45	0806B017.d	1	RINSE
18 06-AUG-2010 19:04	0806B018.d	1	RINSE
19 06-AUG-2010 19:23	0806B019.d	1	RINSE
20 06-AUG-2010 19:41	0806B020.d	1	IB
21 06-AUG-2010 20:00	0806B021.d	1	0.25 PPM
22 06-AUG-2010 20:19	0806B022.d	1	0.02 PPM
23 06-AUG-2010 20:38	0806B023.d	1	0.05 PPM
24 06-AUG-2010 20:57	0806B024.d	1	1 PPM
25 06-AUG-2010 21:16	0806B025.d	1	0.1 PPM
26 06-AUG-2010 21:34	0806B026.d	1	0.5 PPM
27 06-AUG-2010 21:53	0806B027.d	1	AR1242
28 06-AUG-2010 22:12	0806B028.d	1	AR1248
29 06-AUG-2010 22:31	0806B029.d	1	AR1254
30 06-AUG-2010 22:50	0806B030.d	1	AR2162
31 06-AUG-2010 23:09	0806B031.d	1	AR3268
32 06-AUG-2010 23:27	0806B032.d	1	AR1660
33 06-AUG-2010 23:46	0806B033.d	1	AR1242
34 06-AUG-2010 23:51	0806B034.d	1	AR1248
35 07-AUG-2010 00:05	0806B035.d	1	AR1254
36 07-AUG-2010 00:24	0806B036.d	1	AR2162
37 07-AUG-2010 00:43	0806B037.d	1	AR3268
38 07-AUG-2010 01:02	0806B038.d	1	0.1 PPM
39 07-AUG-2010 01:20	0806B039.d	1	DDT BD
40 07-AUG-2010 01:39	0806B040.d	1	AR1242
41 07-AUG-2010 01:58	0806B041.d	1	AR1248
42 07-AUG-2010 02:17	0806B042.d	1	AR1254
43 07-AUG-2010 02:36	0806B043.d	1	AR1660
44 07-AUG-2010 02:55	0806B044.d	5	RH00MBS1
45 07-AUG-2010 03:13	0806B045.d	5	RH00ICSS1
46 07-AUG-2010 03:32	0806B046.d	5	RH00ICSD1
47 07-AUG-2010 03:51	0806B047.d	5	RH00A
48 07-AUG-2010 04:10	0806B048.d	5	RH00B
49 07-AUG-2010 04:29	0806B049.d	5	RH00C
50 07-AUG-2010 04:48	0806B050.d	5	RG17MBS1
51 07-AUG-2010 05:06	0806B051.d	5	RG17ICSS1
52 07-AUG-2010 05:25	0806B052.d	5	RG17ICSD1
53 07-AUG-2010 05:44	0806B053.d	5	RG17D
54 07-AUG-2010 06:03	0806B054.d	5	RG17E
55 07-AUG-2010 06:22	0806B055.d	5	RG33K
56 07-AUG-2010 06:40	0806B056.d	5	RG33Q
57 07-AUG-2010 06:59	0806B057.d	5	RG33S
58 07-AUG-2010 07:18	0806B058.d	5	RG33E
59 07-AUG-2010 07:37	0806B059.d	5	AR1242
60 07-AUG-2010 07:56	0806B060.d	1	AR1660
61 07-AUG-2010 08:15	0806B061.d	5	RH00MBS1
62 07-AUG-2010 08:33	0806B062.d	5	RH00ICSS1
63 07-AUG-2010 08:52	0806B063.d	5	RH00ICSD1
64 07-AUG-2010 09:11	0806B064.d	5	RH00A
65 07-AUG-2010 09:30	0806B065.d	5	RH00B
66 07-AUG-2010 09:49	0806B066.d	5	RH00C
67 07-AUG-2010 10:08	0806B067.d	5	AR1254
68 07-AUG-2010 10:26	0806B068.d	1	AR1660
69 07-AUG-2010 10:45	0806B069.d	5	RG17MBS1
70 07-AUG-2010 11:04	0806B070.d	5	RG17ICSS1

changed liner, new septa

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.

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd5.i/20100806.b/ical-2.b/0806B022.d
 Level 2: /chem2/ecd5.i/20100806.b/ical-2.b/0806B023.d
 Level 3: /chem2/ecd5.i/20100806.b/ical-2.b/0806B025.d
 Level 4: /chem2/ecd5.i/20100806.b/ical-2.b/0806B021.d
 Level 5: /chem2/ecd5.i/20100806.b/ical-2.b/0806B026.d
 Level 6: /chem2/ecd5.i/20100806.b/ical-2.b/0806B024.d
 Level 7: /chem2/ecd5.i/20100806.b/ical-2.b/0806B031.d
 Level 8: /chem2/ecd5.i/20100806.b/ddt-2.b/0806B038.d

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
1 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.01224	0.000
	0.01224	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.00737	0.000
	0.00737	+++++						
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02301	0.000
	0.02301	+++++						
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.00221	0.000
	0.00221	+++++						
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02001	0.000
	0.02001	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.03976	0.000
	0.03976	+++++						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ece5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01583	+++++					0.01583	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01454	+++++					0.01454	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03182	+++++					0.03182	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.06818	+++++					0.06818	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02750	+++++					0.02750	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02898	+++++					0.02898	0.000
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03231	+++++					0.03231	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03750	+++++					0.03750	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03739	+++++					0.03739	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.04834	+++++					0.04834	0.000
7 Aroclor-1016(1)	0.04462	0.04524	0.04520	0.04139	0.03930	0.03564		
	+++++	+++++					0.04190	9.281
(2)	0.09528	0.09722	0.09667	0.08902	0.08517	0.07809		
	+++++	+++++					0.09024	8.443
(3)	0.03756	0.03827	0.03862	0.03597	0.03476	0.03230		
	+++++	+++++					0.03625	6.677
(4)	0.01940	0.01698	0.01772	0.01651	0.01575	0.01464		
	+++++	+++++					0.01683	9.755
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03792	+++++					0.03792	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.05198	+++++					0.05198	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03910	+++++					0.03910	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.08583	+++++					0.08583	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.05229	+++++					0.05229	0.000
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.10409	+++++					0.10409	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.08605	+++++					0.08605	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.09387	+++++					0.09387	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03564	+++++					0.03564	0.000
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.07180	+++++					0.07180	0.000
9 Aroclor-1260(1)	0.08773	0.08391	0.08223	0.07628	0.07113	0.06841		
	+++++	+++++					0.07828	9.716
(2)	0.19534	0.19030	0.18826	0.17448	0.15887	0.15865		
	+++++	+++++					0.17765	9.108
(3)	0.14528	0.12698	0.12062	0.11099	0.10178	0.09959		
	+++++	+++++					0.11754	14.645

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(4)	0.05461	0.05171	0.05028	0.05105	0.04654	0.04480	0.04983	7.189
	++++	++++						
11 Aroclor-1268(1)	++++	++++	++++	++++	++++	++++	0.22011	0.000
	0.22011	++++						
(2)	++++	++++	++++	++++	++++	++++	0.21095	0.000
	0.21095	++++						
(3)	++++	++++	++++	++++	++++	++++	0.15431	0.000
	0.15431	++++						
(4)	++++	++++	++++	++++	++++	++++	0.39830	0.000
	0.39830	++++						
41 2,4-DDE	++++	++++	++++	++++	++++	++++	722	0.000
	++++	722						
42 2,4-DDD	++++	++++	++++	++++	++++	++++	924	0.000
	++++	924						
44 4,4-DDE	++++	++++	++++	++++	++++	++++	1281	0.000
	++++	1281						
45 4,4-DDD/2,4-DDT	++++	++++	++++	++++	++++	++++	870	0.000
	++++	870						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
46 4,4-DDT	++++	++++	++++	++++	++++	++++	979	0.000
	++++	979						
\$ 2 Tetrachloro-m-xylene	1.10021	1.17459	1.18769	1.13197	1.10091	1.03744	1.12213	4.921
	++++	++++						
\$ 13 Decachlorobiphenyl	1.49388	1.52367	1.52194	1.45212	1.38315	1.35762	1.45540	4.894
	++++	++++						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB1.m
 Cal Date : 07-Aug-2010 11:26 jrains
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd5.i/20100806.b/ical-1.b/0806B022.d
 Level 2: /chem2/ecd5.i/20100806.b/ical-1.b/0806B023.d
 Level 3: /chem2/ecd5.i/20100806.b/ical-1.b/0806B025.d
 Level 4: /chem2/ecd5.i/20100806.b/ical-1.b/0806B021.d
 Level 5: /chem2/ecd5.i/20100806.b/ical-1.b/0806B026.d
 Level 6: /chem2/ecd5.i/20100806.b/ical-1.b/0806B024.d
 Level 7: /chem2/ecd5.i/20100806.b/ical-1.b/0806B031.d
 Level 8: /chem2/ecd5.i/20100806.b/ddt-1.b/0806B038.d

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.01618	0.000
	0.01618	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01170	0.000
	0.01170	+++++						
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.03751	0.000
	0.03751	+++++						
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02965	0.000
	0.02965	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.09675	0.000
	0.09675	+++++						
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.04013	0.000
	0.04013	+++++						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB1.m
 Cal Date : 07-Aug-2010 11:26 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(4)	++++ 0.03470	++++ ++++	++++	++++	++++	++++	0.03470	0.000
4 Aroclor-1232(1)	++++ 0.01709	++++ ++++	++++	++++	++++	++++	0.01709	0.000
(2)	++++ 0.05525	++++ ++++	++++	++++	++++	++++	0.05525	0.000
(3)	++++ 0.02297	++++ ++++	++++	++++	++++	++++	0.02297	0.000
(4)	++++ 0.01752	++++ ++++	++++	++++	++++	++++	0.01752	0.000
7 Aroclor-1016(1)	0.04055 ++++	0.04122 ++++	0.04135	0.03827	0.03680	0.03377	0.03866	7.753
(2)	0.13434 ++++	0.13774 ++++	0.13695	0.12392	0.11797	0.10747	0.12640	9.617
(3)	0.05617 ++++	0.05726 ++++	0.05673	0.05139	0.04892	0.04462	0.05252	9.718
(4)	0.03736 ++++	0.03847 ++++	0.03841	0.03568	0.03476	0.03234	0.03617	6.614

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB1.m
 Cal Date : 07-Aug-2010 11:26 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.04295	0.000
	0.04295	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.04933	0.000
	0.04933	+++++						
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.05815	0.000
	0.05815	+++++						
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.05535	0.000
	0.05535	+++++						
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.06507	0.000
	0.06507	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.09088	0.000
	0.09088	+++++						
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.06111	0.000
	0.06111	+++++						
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.11326	0.000
	0.11326	+++++						
(5)	+++++	+++++	+++++	+++++	+++++	+++++	0.07997	0.000
	0.07997	+++++						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB1.m
 Cal Date : 07-Aug-2010 11:26 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
9 Aroclor-1260(1)	0.07142 ++++	0.07389 ++++	0.07311	0.06697	0.06186	0.05746	0.06745	9.845
(2)	0.06771 ++++	0.07014 ++++	0.06936	0.06372	0.05888	0.05467	0.06408	9.708
(3)	0.17812 ++++	0.17846 ++++	0.17473	0.15787	0.14360	0.13106	0.16064	12.432
(4)	0.08324 ++++	0.08583 ++++	0.08550	0.07962	0.07431	0.06973	0.07970	8.173
(5)	0.04637 ++++	0.04870 ++++	0.04881	0.04581	0.04352	0.04145	0.04578	6.327
10 Aroclor-1262(1)	++++ 0.09054	++++ ++++	++++	++++	++++	++++	0.09054	0.000
(2)	++++ 0.07475	++++ ++++	++++	++++	++++	++++	0.07475	0.000
(3)	++++ 0.16404	++++ ++++	++++	++++	++++	++++	0.16404	0.000
(4)	++++ 0.08101	++++ ++++	++++	++++	++++	++++	0.08101	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB1.m
 Cal Date : 07-Aug-2010 11:26 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(5)	++++ 0.08144	++++ ++++	++++	++++	++++	++++	0.08144	0.000
11 Aroclor-1268(1)	++++ 0.19958	++++ ++++	++++	++++	++++	++++	0.19958	0.000
(2)	++++ 0.20870	++++ ++++	++++	++++	++++	++++	0.20870	0.000
(3)	++++ 0.15263	++++ ++++	++++	++++	++++	++++	0.15263	0.000
(4)	++++ 0.32396	++++ ++++	++++	++++	++++	++++	0.32396	0.000
42 2,4-DDE	++++ ++++	++++ 1009	++++	++++	++++	++++	1009	0.000
43 2,4-DDD	++++ ++++	++++ 1310	++++	++++	++++	++++	1310	0.000
44 2,4-DDT	++++ ++++	++++ 1227	++++	++++	++++	++++	1227	0.000
46 4,4-DDE	++++ ++++	++++ 1770	++++	++++	++++	++++	1770	0.000

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB1.m
 Cal Date : 07-Aug-2010 11:26 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	1336	0.000
	+++++	1336						
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	1356	0.000
	+++++	1356						
\$ 1 Tetrachloro-m-xylene	1.64402	1.73943	1.75780	1.62257	1.56424	1.46633	1.63240	6.690
	+++++	+++++						
\$ 13 Decachlorobiphenyl	1.86492	1.78597	1.68953	1.54352	1.44493	1.33787	1.61112	12.659
	+++++	+++++						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Calibration File Names:

Level 1: /chem2/ecd5.i/20100806.b/ical-2.b/0806B022.d
 Level 2: /chem2/ecd5.i/20100806.b/ical-2.b/0806B023.d
 Level 3: /chem2/ecd5.i/20100806.b/ical-2.b/0806B025.d
 Level 4: /chem2/ecd5.i/20100806.b/ical-2.b/0806B021.d
 Level 5: /chem2/ecd5.i/20100806.b/ical-2.b/0806B026.d
 Level 6: /chem2/ecd5.i/20100806.b/ical-2.b/0806B024.d
 Level 7: /chem2/ecd5.i/20100806.b/ical-2.b/0806B031.d
 Level 8: /chem2/ecd5.i/20100806.b/ddt-2.b/0806B038.d

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
1 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01224	+++++					0.01224	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.00737	+++++					0.00737	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02301	+++++					0.02301	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.00221	+++++					0.00221	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.02001	+++++					0.02001	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03976	+++++					0.03976	0.000

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(3)	+++++ 0.01583	+++++ +++++	+++++	+++++	+++++	+++++	0.01583	0.000
(4)	+++++ 0.01454	+++++ +++++	+++++	+++++	+++++	+++++	0.01454	0.000
3 Aroclor-1242(1)	+++++ 0.03182	+++++ +++++	+++++	+++++	+++++	+++++	0.03182	0.000
(2)	+++++ 0.06818	+++++ +++++	+++++	+++++	+++++	+++++	0.06818	0.000
(3)	+++++ 0.02750	+++++ +++++	+++++	+++++	+++++	+++++	0.02750	0.000
(4)	+++++ 0.02898	+++++ +++++	+++++	+++++	+++++	+++++	0.02898	0.000
6 Aroclor-1248(1)	+++++ 0.03231	+++++ +++++	+++++	+++++	+++++	+++++	0.03231	0.000
(2)	+++++ 0.03750	+++++ +++++	+++++	+++++	+++++	+++++	0.03750	0.000
(3)	+++++ 0.03739	+++++ +++++	+++++	+++++	+++++	+++++	0.03739	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ece5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 jrains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000 Level 7	0.000e+00 Level 8						
(4)	++++ 0.04834	++++ ++++	++++	++++	++++	++++	0.04834	0.000
7 Aroclor-1016(1)	0.04462 ++++	0.04524 ++++	0.04520	0.04139	0.03930	0.03564	0.04190	9.281
(2)	0.09528 ++++	0.09722 ++++	0.09667	0.08902	0.08517	0.07809	0.09024	8.443
(3)	0.03756 ++++	0.03827 ++++	0.03862	0.03597	0.03476	0.03230	0.03625	6.677
(4)	0.01940 ++++	0.01698 ++++	0.01772	0.01651	0.01575	0.01464	0.01683	9.755
8 Aroclor-1254(1)	++++ 0.03792	++++ ++++	++++	++++	++++	++++	0.03792	0.000
(2)	++++ 0.05198	++++ ++++	++++	++++	++++	++++	0.05198	0.000
(3)	++++ 0.03910	++++ ++++	++++	++++	++++	++++	0.03910	0.000
(4)	++++ 0.08583	++++ ++++	++++	++++	++++	++++	0.08583	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 jrains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(5)	+++++	+++++	+++++	+++++	+++++	+++++	0.05229	0.000
	0.05229	+++++						
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.10409	0.000
	0.10409	+++++						
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.08605	0.000
	0.08605	+++++						
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.09387	0.000
	0.09387	+++++						
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.03564	0.000
	0.03564	+++++						
(5)	+++++	+++++	+++++	+++++	+++++	+++++	0.07180	0.000
	0.07180	+++++						
9 Aroclor-1260(1)	0.08773	0.08391	0.08223	0.07628	0.07113	0.06841	0.07828	9.716
	+++++	+++++						
(2)	0.19534	0.19030	0.18826	0.17448	0.15887	0.15865	0.17765	9.108
	+++++	+++++						
(3)	0.14528	0.12698	0.12062	0.11099	0.10178	0.09959	0.11754	14.645
	+++++	+++++						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
(4)	0.05461	0.05171	0.05028	0.05105	0.04654	0.04480	0.04983	7.189
	++++	++++						
11 Aroclor-1268 (1)	++++	++++	++++	++++	++++	++++	0.22011	0.000
	0.22011	++++						
(2)	++++	++++	++++	++++	++++	++++	0.21095	0.000
	0.21095	++++						
(3)	++++	++++	++++	++++	++++	++++	0.15431	0.000
	0.15431	++++						
(4)	++++	++++	++++	++++	++++	++++	0.39830	0.000
	0.39830	++++						
41 2,4-DDE	++++	++++	++++	++++	++++	++++	722	0.000
	++++	722						
42 2,4-DDD	++++	++++	++++	++++	++++	++++	924	0.000
	++++	924						
44 4,4-DDE	++++	++++	++++	++++	++++	++++	1281	0.000
	++++	1281						
45 4,4-DDD/2,4-DDT	++++	++++	++++	++++	++++	++++	870	0.000
	++++	870						

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-AUG-2010 20:00
 End Cal Date : 07-AUG-2010 01:20
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd5.i/20100806.b/PCB2.m
 Cal Date : 07-Aug-2010 11:23 j rains
 Curve Type : Average

Compound	20.000	50.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	250.000	0.000e+00						
	Level 7	Level 8						
46 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	979	0.000
	+++++	979						
\$ 2 Tetrachloro-m-xylene	1.10021	1.17459	1.18769	1.13197	1.10091	1.03744	1.12213	4.921
	+++++	+++++						
\$ 13 Decachlorobiphenyl	1.49388	1.52367	1.52194	1.45212	1.38315	1.35762	1.45540	4.894
	+++++	+++++						

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC

Client:

ARI Job No.: 20100806

Project:

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 08/06/10

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
TCX	3.47- 3.67	1.6440	1.7394	1.7578	1.6226	1.5642	1.4663	1.6324	6.7
DCB	11.65-11.85	1.8649	1.7860	1.6895	1.5435	1.4449	1.3379	1.6111	12.7

Aroclor-1016	Peak	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
			.02	0.05	0.1	.25	0.5	1.0		R ²
1	4.97-	5.17	0.0406	0.0412	0.0414	0.0383	0.0368	0.0338	0.0387	7.8
2	5.39-	5.59	0.1343	0.1377	0.1370	0.1239	0.1180	0.1075	0.1264	9.6
3	5.55-	5.75	0.0562	0.0573	0.0567	0.0514	0.0489	0.0446	0.0525	9.7
4	5.66-	5.86	0.0374	0.0385	0.0384	0.0357	0.0348	0.0323	0.0362	6.6

AROCLOR AVERAGE %RSD = 8.4

Aroclor-1260	Peak	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
			.02	0.05	0.1	.25	0.5	1.0		R ²
1	8.86-	9.06	0.0714	0.0739	0.0731	0.0670	0.0619	0.0575	0.0675	9.8
2	9.17-	9.37	0.0677	0.0701	0.0694	0.0637	0.0589	0.0547	0.0641	9.7
3	9.53-	9.73	0.1781	0.1785	0.1747	0.1579	0.1436	0.1311	0.1606	12.4
4	9.93-	10.13	0.0832	0.0858	0.0855	0.0796	0.0743	0.0697	0.0797	8.2
5	10.11-	10.31	0.0464	0.0487	0.0488	0.0458	0.0435	0.0414	0.0458	6.3

AROCLOR AVERAGE %RSD = 9.3

6F
8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC

Client:

ARI Job No.: 20100806

Project:

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 08/06/10

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
TCX	3.61- 3.81	1.1002	1.1746	1.1877	1.1320	1.1009	1.0374	1.1221	4.9
DCB	12.18-12.38	1.4939	1.5237	1.5219	1.4521	1.3831	1.3576	1.4554	4.9

Aroclor-1016	Peak	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
			.02	0.05	0.1	.25	0.5	1.0		R ²
1	5.25- 5.45		0.0446	0.0452	0.0452	0.0414	0.0393	0.0356	0.0419	9.3
2	5.90- 6.10		0.0953	0.0972	0.0967	0.0890	0.0852	0.0781	0.0902	8.4
3	6.11- 6.31		0.0376	0.0383	0.0386	0.0360	0.0348	0.0323	0.0362	6.7
4	7.39- 7.59		0.0194	0.0170	0.0177	0.0165	0.0158	0.0146	0.0168	9.8

AROCLOR AVERAGE %RSD = 8.5

Aroclor-1260	Peak	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	LVL6	MEAN	%RSD
			.02	0.05	0.1	.25	0.5	1.0		R ²
1	9.30- 9.50		0.0877	0.0839	0.0822	0.0763	0.0711	0.0684	0.0783	9.7
2	10.01-10.21		0.1953	0.1903	0.1883	0.1745	0.1589	0.1587	0.1776	9.1
3	10.58-10.78		0.1453	0.1270	0.1206	0.1110	0.1018	0.0996	0.1175	14.6
4	11.29-11.49		0.0546	0.0517	0.0503	0.0510	0.0465	0.0448	0.0498	7.2

AROCLOR AVERAGE %RSD = 10.2

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client:

ARI Job No.: 20100806

Project:

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 08/07/10

Aroclor-1221				Cal Factor
Peak	RT	RT WIN		
1	3.867	3.77- 3.97		0.01618
2	4.022	3.92- 4.12		0.01170
3	4.114	4.01- 4.21		0.03751
Aroclor-1232				Cal Factor
Peak	RT	RT WIN		
1	5.073	4.97- 5.17		0.01709
2	5.493	5.39- 5.59		0.05525
3	5.649	5.55- 5.75		0.02297
4	7.145	7.05- 7.25		0.01752
Aroclor-1242				Cal Factor
Peak	RT	RT WIN		
1	5.074	4.97- 5.17		0.02965
2	5.494	5.39- 5.59		0.09675
3	5.650	5.55- 5.75		0.04013
4	7.146	7.05- 7.25		0.03470
Aroclor-1248				Cal Factor
Peak	RT	RT WIN		
1	6.004	5.90- 6.10		0.04295
2	6.309	6.21- 6.41		0.04933
3	6.855	6.75- 6.95		0.05815
4	7.145	7.05- 7.25		0.05535

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client:

ARI Job No.: 20100806

Project:

GC Column: ZB5

Instrument ID: ECD5

Calibration Date: 08/07/10

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	6.919	6.82- 7.02	0.06507
2	7.226	7.13- 7.33	0.09088
3	7.592	7.49- 7.69	0.06111
4	7.726	7.63- 7.83	0.11326
5	8.423	8.32- 8.52	0.07997
Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	8.963	8.86- 9.06	0.09054
2	9.272	9.17- 9.37	0.07475
3	9.635	9.53- 9.73	0.16404
4	10.138	10.04-10.24	0.08101
5	10.211	10.11-10.31	0.08144
Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	10.139	10.04-10.24	0.19958
2	10.208	10.11-10.31	0.20870
3	10.586	10.49-10.69	0.15263
4	11.353	11.25-11.45	0.32396

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client:

ARI Job No.: 20100806

Project:

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 08/07/10

Aroclor-1221				Cal
Peak	RT	RT WIN		Factor
1	4.289	4.19-	4.39	0.01224
2	4.522	4.42-	4.62	0.00737
3	4.633	4.53-	4.73	0.02301
4	5.243	5.14-	5.34	0.00221
Aroclor-1232				Cal
Peak	RT	RT WIN		Factor
1	5.351	5.25-	5.45	0.02001
2	5.995	5.90-	6.10	0.03976
3	6.209	6.11-	6.31	0.01583
4	7.770	7.67-	7.87	0.01454
Aroclor-1242				Cal
Peak	RT	RT WIN		Factor
1	5.349	5.25-	5.45	0.03182
2	5.995	5.90-	6.10	0.06818
3	6.209	6.11-	6.31	0.02750
4	7.770	7.67-	7.87	0.02898
Aroclor-1248				Cal
Peak	RT	RT WIN		Factor
1	6.483	6.38-	6.58	0.03231
2	6.903	6.80-	7.00	0.03750
3	7.423	7.32-	7.52	0.03739
4	7.769	7.67-	7.87	0.04834

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC

Client:

ARI Job No.: 20100806

Project:

GC Column: ZB35

Instrument ID: ECD5

Calibration Date: 08/07/10

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	7.489	7.39- 7.59	0.03792
2	7.652	7.55- 7.75	0.05198
3	8.172	8.07- 8.27	0.03910
4	8.319	8.22- 8.42	0.08583
5	9.085	8.99- 9.19	0.05229
Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	9.400	9.30- 9.50	0.10409
2	9.846	9.75- 9.95	0.08605
3	10.616	10.52-10.72	0.09387
4	11.266	11.17-11.37	0.03564
5	11.396	11.30-11.50	0.07180
Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	10.617	10.52-10.72	0.22011
2	10.683	10.58-10.78	0.21095
3	11.073	10.97-11.17	0.15431
4	11.876	11.78-11.98	0.39830

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B020.d
Data file 2: 20100806.b/ical-2.b/0806B020.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 06-AUG-2010 19:41
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.570	-0.001	25664975	3.707	-0.001	40710404	37.5	38.9	3.7	Tetrachloro-m-xylene
11.753	0.000	32387665	12.283	0.000	49072198	36.3	38.5	6.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	93.7	97.3
Decachlorobiphenyl	90.6	96.3

08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	33549860	-5.7
Hexabromobiphenyl	47117515	44356597	-5.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	74585490	-4.8
Hexabromobiphenyl	74720444	70050323	-6.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	---			0.0	1	---			0.0	
Aroclor-1016	2	---			0.0	2	6.048	0.053	59532	0.7	
Aroclor-1016	3	---			0.0	3	6.171	-0.038	11578	0.3	
Aroclor-1016	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1221	1	---			0.0	1	4.324	0.036	503154	44.1	
Aroclor-1221	2	---			0.0	2	4.565	0.043	48813	7.1	
Aroclor-1221	3	---			0.0	3	4.658	0.025	109409	5.1	
Aroclor-1221	NS	---			----	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: 18.8						
Aroclor-1232	1	---			0.0	1	---			0.0	
Aroclor-1232	2	---			0.0	2	6.048	0.053	59532	1.6	
Aroclor-1232	3	5.748	0.100	24101	2.5	3	6.171	-0.037	11578	0.8	
Aroclor-1232	4	7.146	0.001	32343	4.4	4	7.803	0.033	325392	24.0	
CollAve: <3 Quant Peaks					Col2Ave: 8.8						
Aroclor-1242	1	---			0.0	1	---			0.0	
Aroclor-1242	2	---			0.0	2	6.048	0.053	59532	0.9	
Aroclor-1242	3	5.748	0.099	24101	1.4	3	6.171	-0.038	11578	0.5	
Aroclor-1242	4	7.146	0.001	32343	2.2	4	7.803	0.033	325392	12.0	
CollAve: <3 Quant Peaks					Col2Ave: 4.5						
Aroclor-1248	1	5.995	-0.010	13210	0.7	1	---			0.0	
Aroclor-1248	2	6.266	-0.044	11746	0.6	2	6.882	-0.021	50632	1.4	
Aroclor-1248	3	6.815	-0.040	16945	0.7	3	7.368	-0.054	54242	1.6	
Aroclor-1248	4	7.146	0.001	32343	1.4	4	7.803	0.034	325392	7.2	
Total CollAve (4 peaks):				0.8	Total Col2Ave (3 peaks):				3.4	RPD = 120*	
Corrected Ave (3 peaks):				0.7	Corrected Ave: < 3 Peaks						
Aroclor-1254	1	---			0.0	1	---			0.0	
Aroclor-1254	2	7.229	0.004	15980	0.4	2	---			0.0	
Aroclor-1254	3	7.608	0.015	24547	1.0	3	8.175	0.004	81281	2.2	
Aroclor-1254	4	7.722	-0.004	16786	0.4	4	8.335	0.016	75403	0.9	
Aroclor-1254	5	---			0.0	5	9.111	0.025	61008	1.3	
Total CollAve (3 peaks):				0.6	Total Col2Ave (3 peaks):				1.5	RPD = 88*	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						
Aroclor-1260	1	---			0.0	1	9.418	0.018	59345	0.9	
Aroclor-1260	2	9.360	0.088	20157	0.6	2	10.049	-0.056	42454	0.3	
Aroclor-1260	3	9.679	0.044	32836	0.4	3	10.625	-0.052	21565	0.2	
Aroclor-1260	4	---			0.0	4	11.455	0.060	1461283	33.5	
Aroclor-1260	5	10.151	-0.059	13548	0.5	NS	---			----	
Total CollAve (3 peaks):				0.5	Total Col2Ave (4 peaks):				8.7	RPD = 179*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				0.4		
Aroclor-1262	1	---			0.0	1	9.418	0.019	59345	0.7	
Aroclor-1262	2	9.360	0.088	20157	0.5	2	9.851	0.005	130916	1.7	
Aroclor-1262	3	9.679	0.044	32836	0.4	3	10.625	0.009	21565	0.3	
Aroclor-1262	4	10.151	0.013	13548	0.3	4	11.266	0.000	2418674	77.5	
Aroclor-1262	5	---			0.0	5	11.455	0.059	1461283	23.2	
Total CollAve (3 peaks):				0.4	Total Col2Ave (5 peaks):				20.7	RPD = 193*	
Corrected Ave: < 3 Peaks					Corrected Ave (4 peaks):				6.5		
Aroclor-1268	1	10.151	0.012	13548	0.1	1	10.625	0.008	21565	0.1	
Aroclor-1268	2	---			0.0	2	---			0.0	
Aroclor-1268	3	10.590	0.003	93599	1.1	3	11.078	0.005	751484	5.6	
Aroclor-1268	4	11.347	-0.006	353838	2.0	4	11.878	0.002	285585	0.8	
Total CollAve (3 peaks):				1.1	Total Col2Ave (3 peaks):				2.2	RPD = 68*	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						

Total PCB Area Coll (3.671 - 11.652) = 3437968

Coll Total PCB = 0.0 ppm*

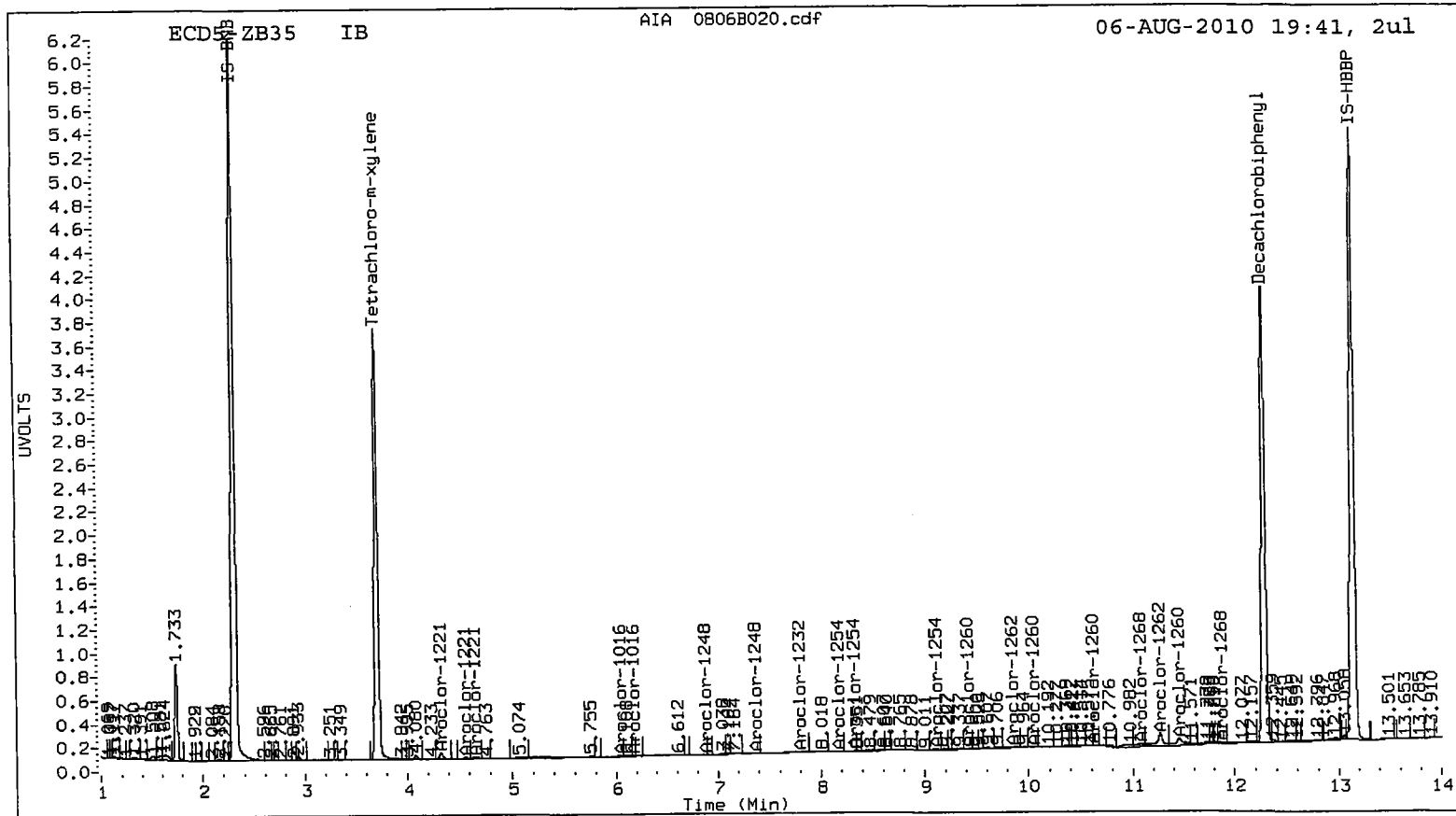
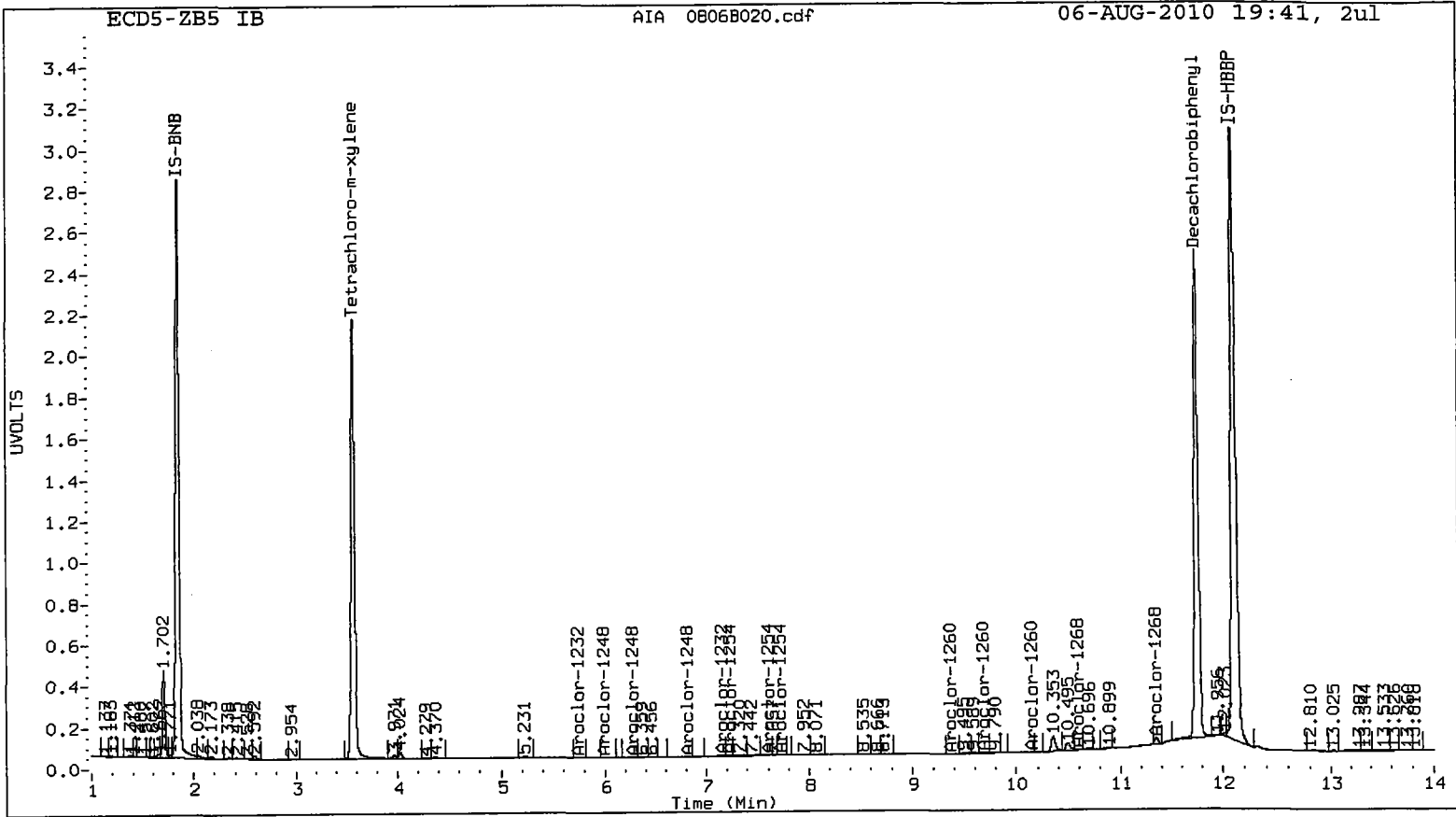
Total PCB Area Col2 (3.808 - 12.183) = 11334318

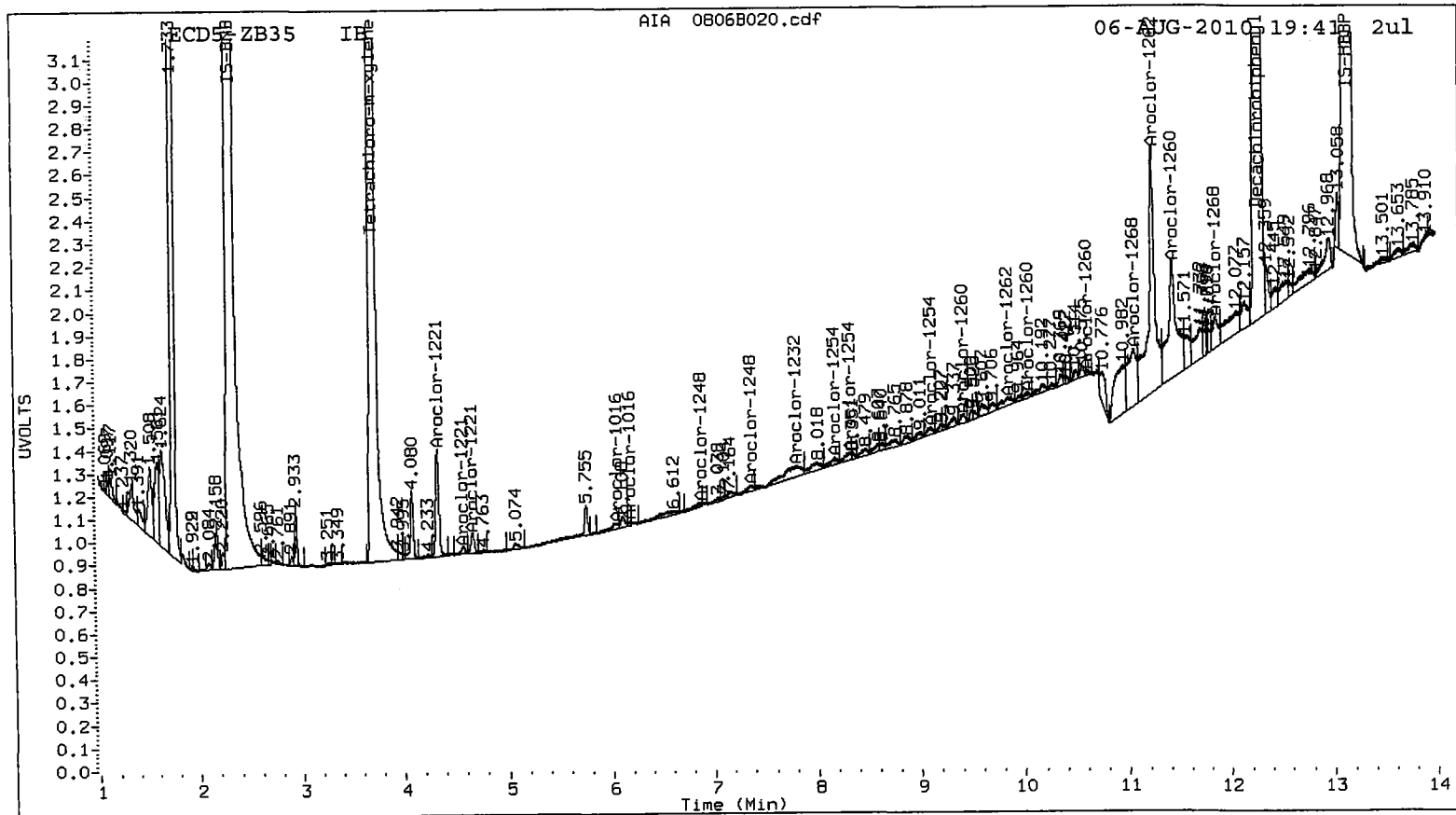
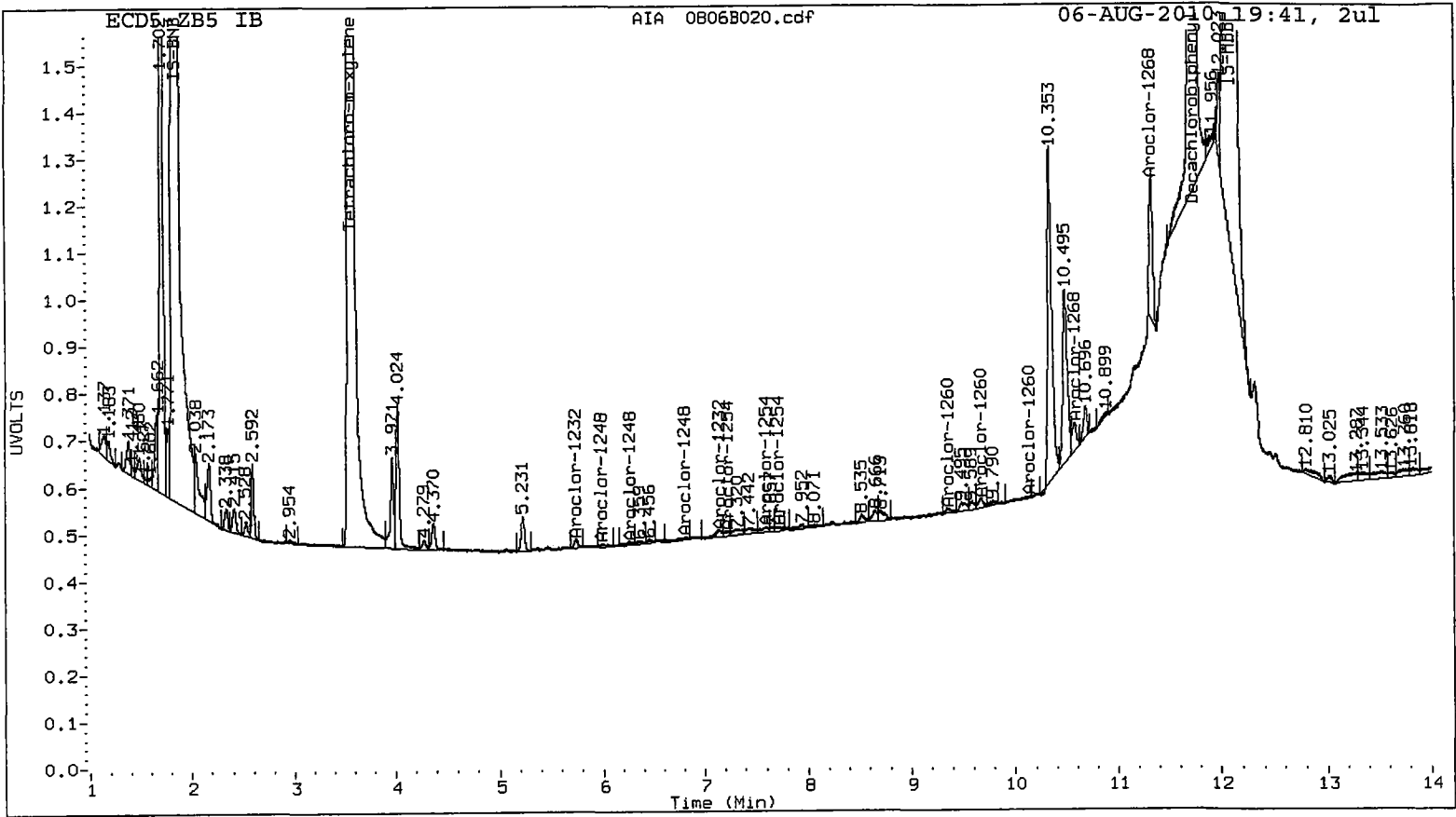
Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 00945





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B021.d
Data file 2: 20100806.b/ical-2.b/0806B021.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25 PPM AR1660
Client ID:
Injection Date: 06-AUG-2010 20:00
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	14438160	3.707	-0.001	22171998	19.9	20.2	1.5	Tetrachloro-m-xylene
11.752	0.000	18181696	12.284	0.001	27125774	19.2	20.0	4.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.7	50.4
Decachlorobiphenyl	47.9	49.9

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	35593381	0.0
Hexabromobiphenyl	47117515	47117515	0.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	78348017	0.0
Hexabromobiphenyl	74720444	74720444	0.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.073	0.000	4256941	247.5	1	5.349	-0.001	10134660	247.0
Aroclor-1016	2	5.493	0.001	13783332	245.1	2	5.995	-0.001	21795250	246.6
Aroclor-1016	3	5.649	0.000	5715719	244.6	3	6.209	-0.001	8806707	248.1
Aroclor-1016	4	5.763	0.000	3968439	246.6	4	7.488	0.000	4041139	245.1
Total Col1Ave (4 peaks):				246.0		Total Col2Ave (4 peaks):				246.7 RPD = 0
Corrected Ave (3 peaks):				245.4		Corrected Ave (3 peaks):				246.2 RPD = 0
Aroclor-1260	1	8.962	0.000	9860761	248.2	1	9.400	0.000	17812549	243.6
Aroclor-1260	2	9.272	0.000	9381795	248.6	2	10.104	-0.001	40742410	245.5
Aroclor-1260	3	9.635	0.000	23245651	245.7	3	10.678	0.000	25915708	236.1
Aroclor-1260	4	10.027	0.000	11723603	249.7	4	11.396	0.001	11919294	256.1
Aroclor-1260	5	10.211	0.001	6744989	250.2	NS	---			----
Total Col1Ave (5 peaks):				248.5		Total Col2Ave (4 peaks):				245.3 RPD = 1
Corrected Ave (4 peaks):				248.1		Corrected Ave (3 peaks):				241.7 RPD = 3

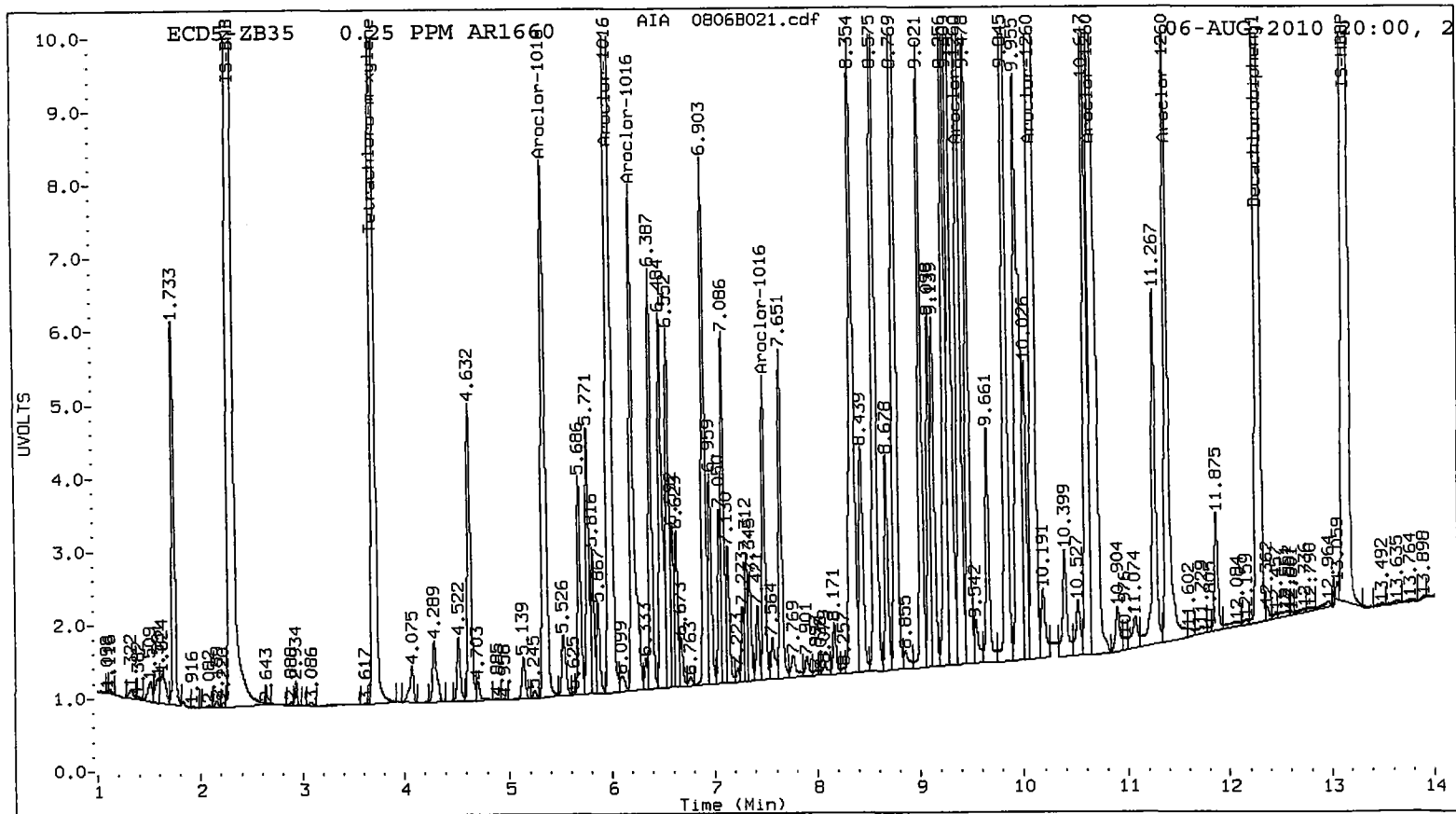
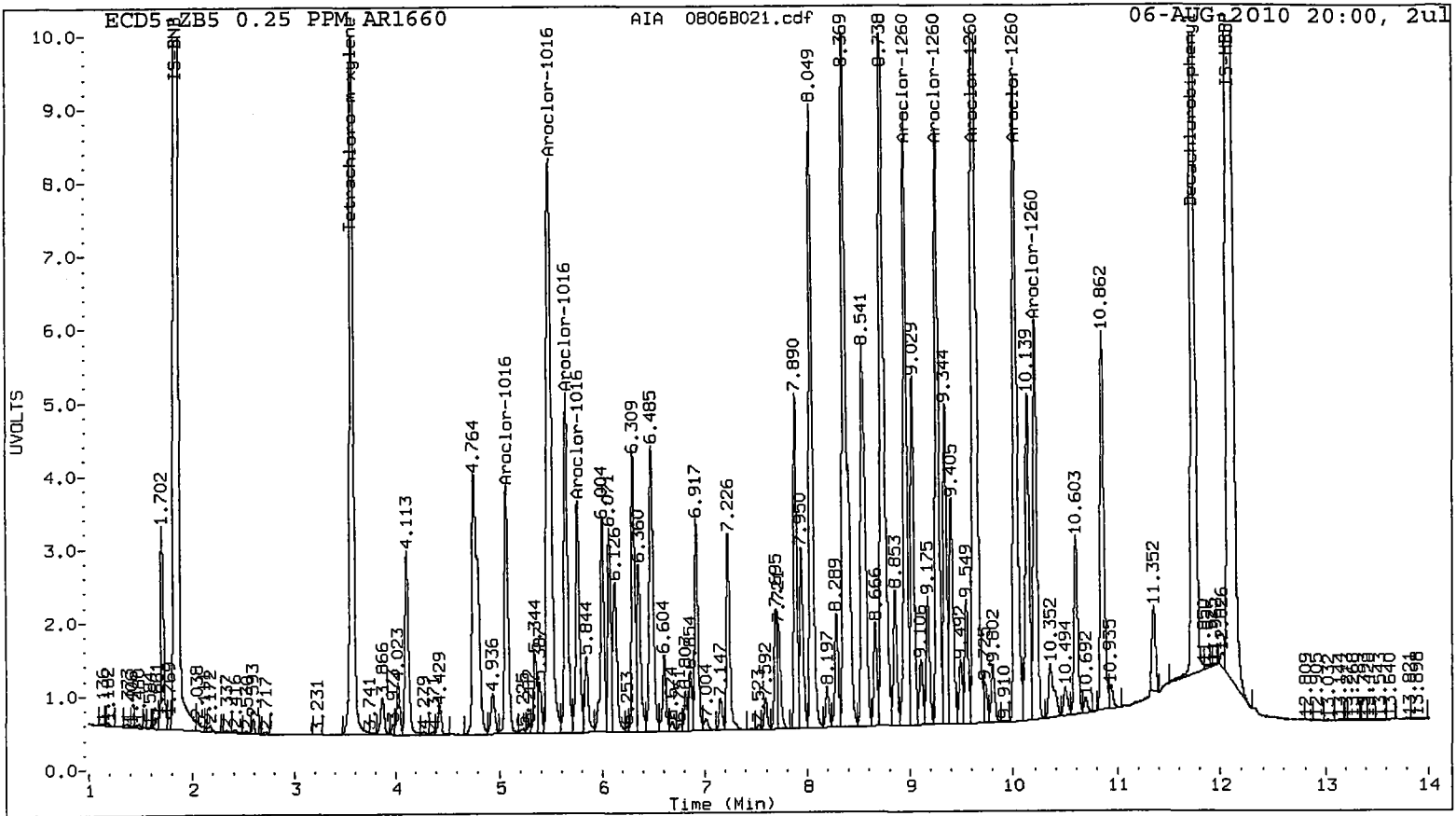
Total PCB Area Col1 (3.671 - 11.652) = 242387715

Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 396327149

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B022.d
Data file 2: 20100806.b/ical-2.b/0806B022.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02 PPM AR1660
Client ID:
Injection Date: 06-AUG-2010 20:19
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	1236002	3.708	0.000	1812411	1.6	1.6	2.7	Tetrachloro-m-xylene
11.753	0.001	1868934	12.284	0.001	2371312	1.9	1.6	12.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	4.0	3.9
Decachlorobiphenyl	4.6	4.1

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	37590841	5.6
Hexabromobiphenyl	47117515	50107749	6.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	82366281	5.1
Hexabromobiphenyl	74720444	79367368	6.2

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.074	0.001	381085	21.0	1	5.349	-0.001	918697	21.3
Aroclor-1016	2	5.494	0.001	1262505	21.3	2	5.995	-0.001	1961901	21.1
Aroclor-1016	3	5.649	0.001	527903	21.4	3	6.209	0.000	773339	20.7
Aroclor-1016	4	5.764	0.000	351100	20.7	4	7.488	-0.001	399505	23.1
Total Col1Ave (4 peaks):				21.1	Total Col2Ave (4 peaks):				21.5	RPD = 2
Corrected Ave (3 peaks):				21.0	Corrected Ave (3 peaks):				21.0	RPD = 0
Aroclor-1260	1	8.963	0.001	894715	21.2	1	9.400	0.000	1740808	22.4
Aroclor-1260	2	9.273	0.001	848192	21.1	2	10.105	0.000	3875813	22.0
Aroclor-1260	3	9.637	0.002	2231260	22.2	3	10.679	0.001	2882591	24.7
Aroclor-1260	4	10.028	0.001	1042790	20.9	4	11.396	0.002	1083487	21.9
Aroclor-1260	5	10.212	0.002	580872	20.3	NS	---			----
Total Col1Ave (5 peaks):				21.1	Total Col2Ave (4 peaks):				22.8	RPD = 7
Corrected Ave (4 peaks):				20.9	Corrected Ave (3 peaks):				22.1	RPD = 6

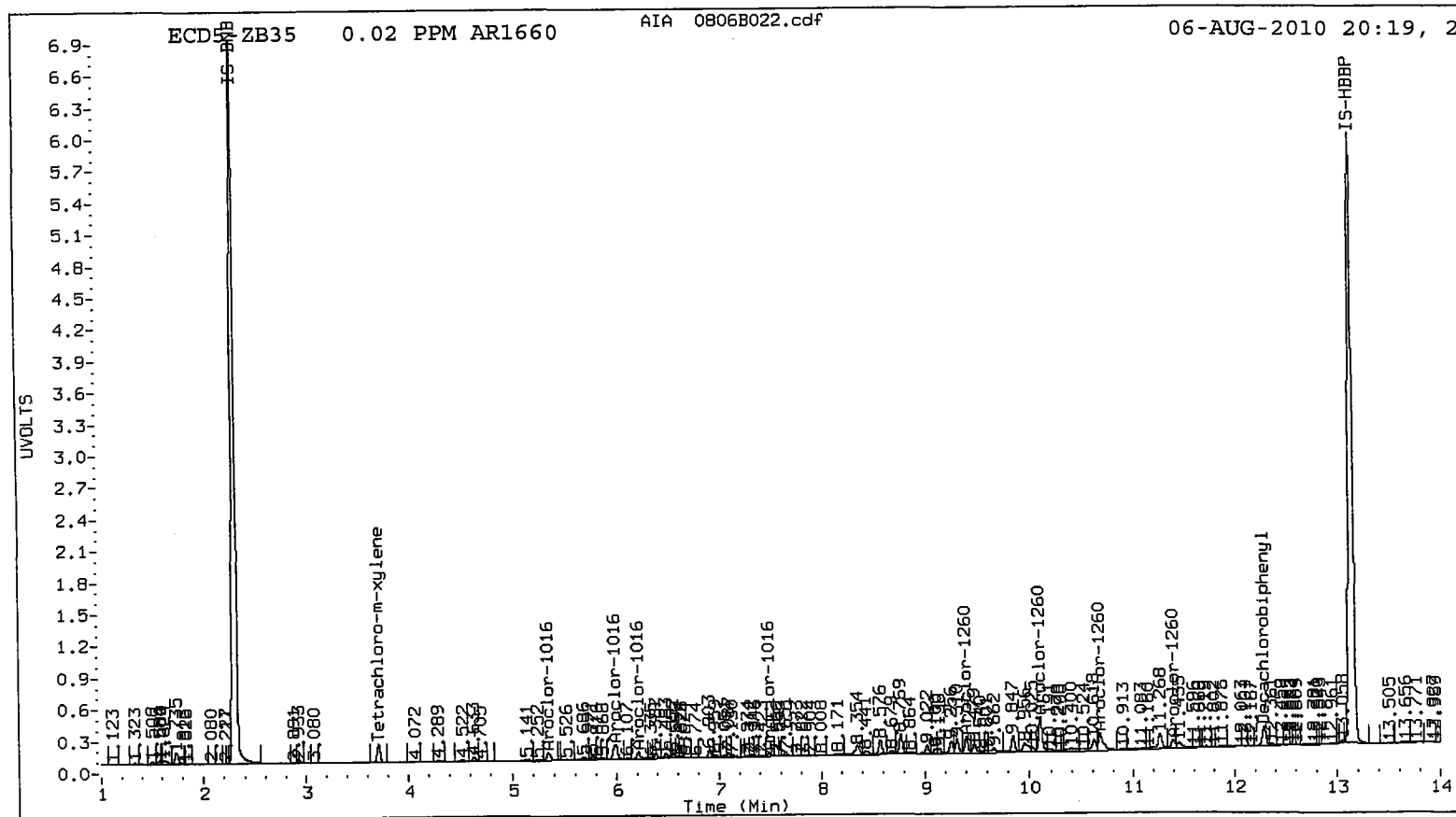
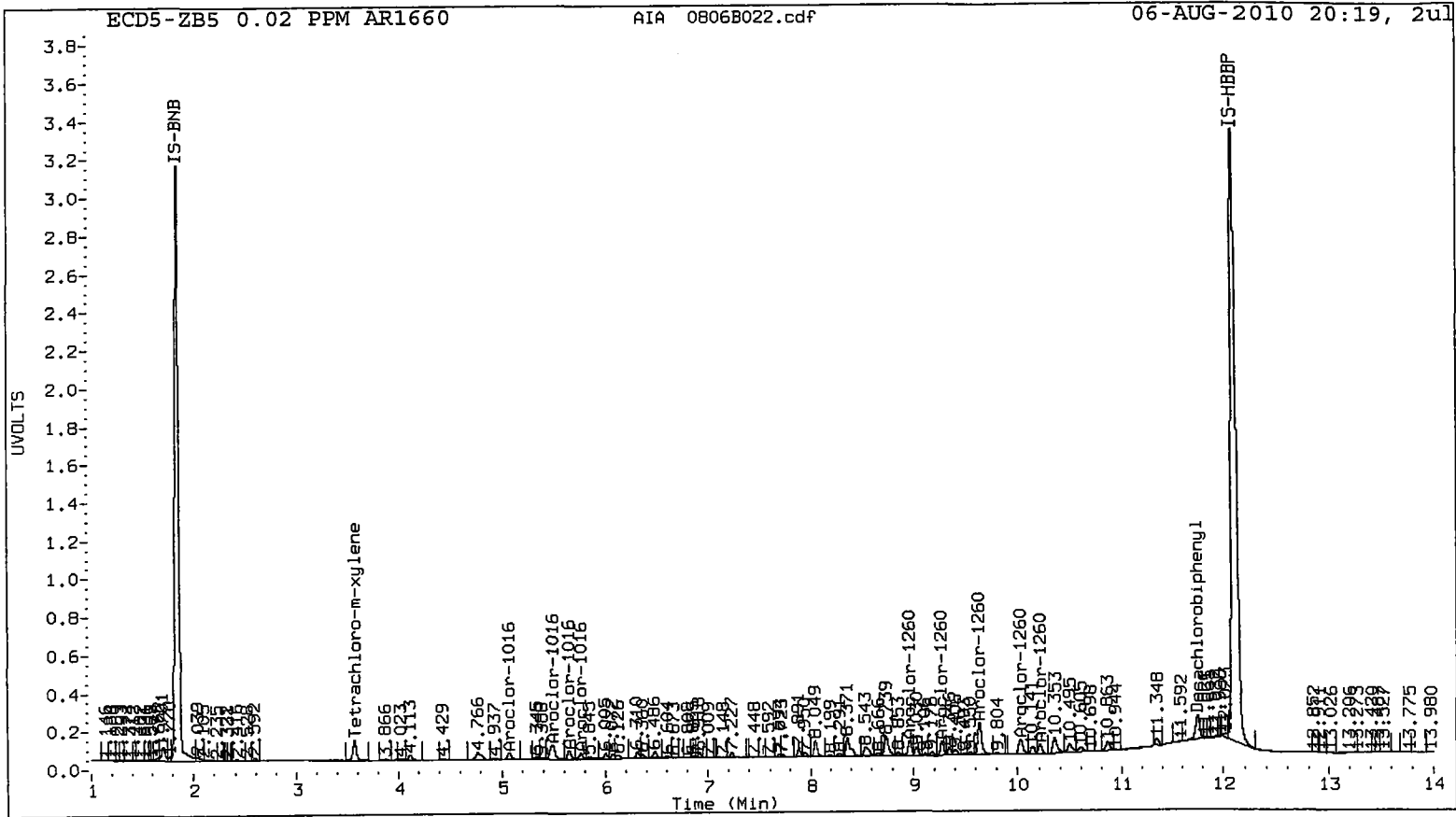
Total PCB Area Col1 (3.671 - 11.652) = 24061218

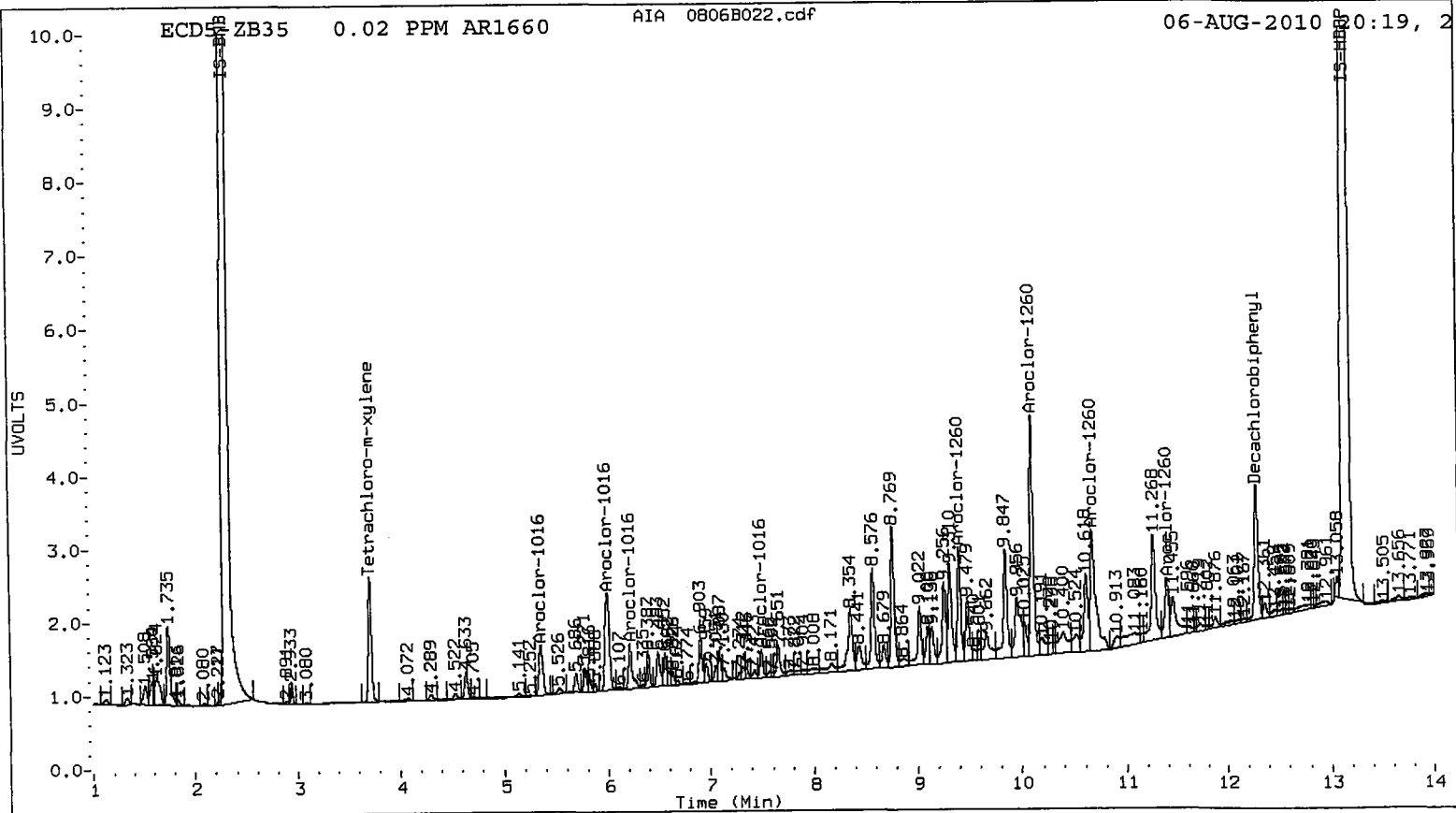
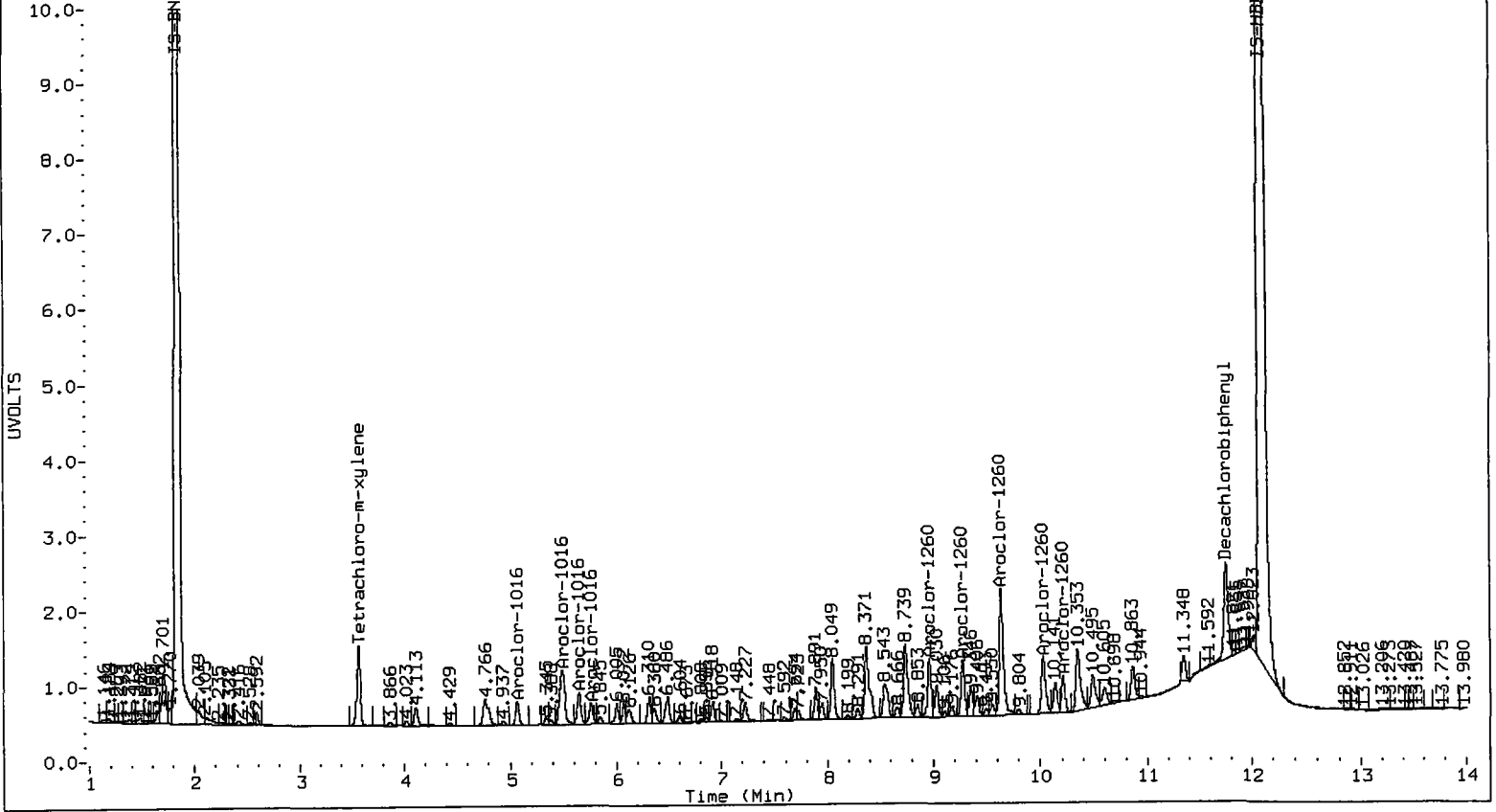
Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 47811450

Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B023.d
Data file 2: 20100806.b/ical-2.b/0806B023.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05 PPM AR1660
Client ID:
Injection Date: 06-AUG-2010 20:38
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.571	0.000	3107222	4.3	4.2	1.8	Tetrachloro-m-xylene
11.754	0.001	4243392	4.4	4.2	5.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	10.7	10.5
Decachlorobiphenyl	11.1	10.5

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	35726905	0.4
Hexabromobiphenyl	47117515	47519315	0.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	78986970	0.8
Hexabromobiphenyl	74720444	75022105	0.4

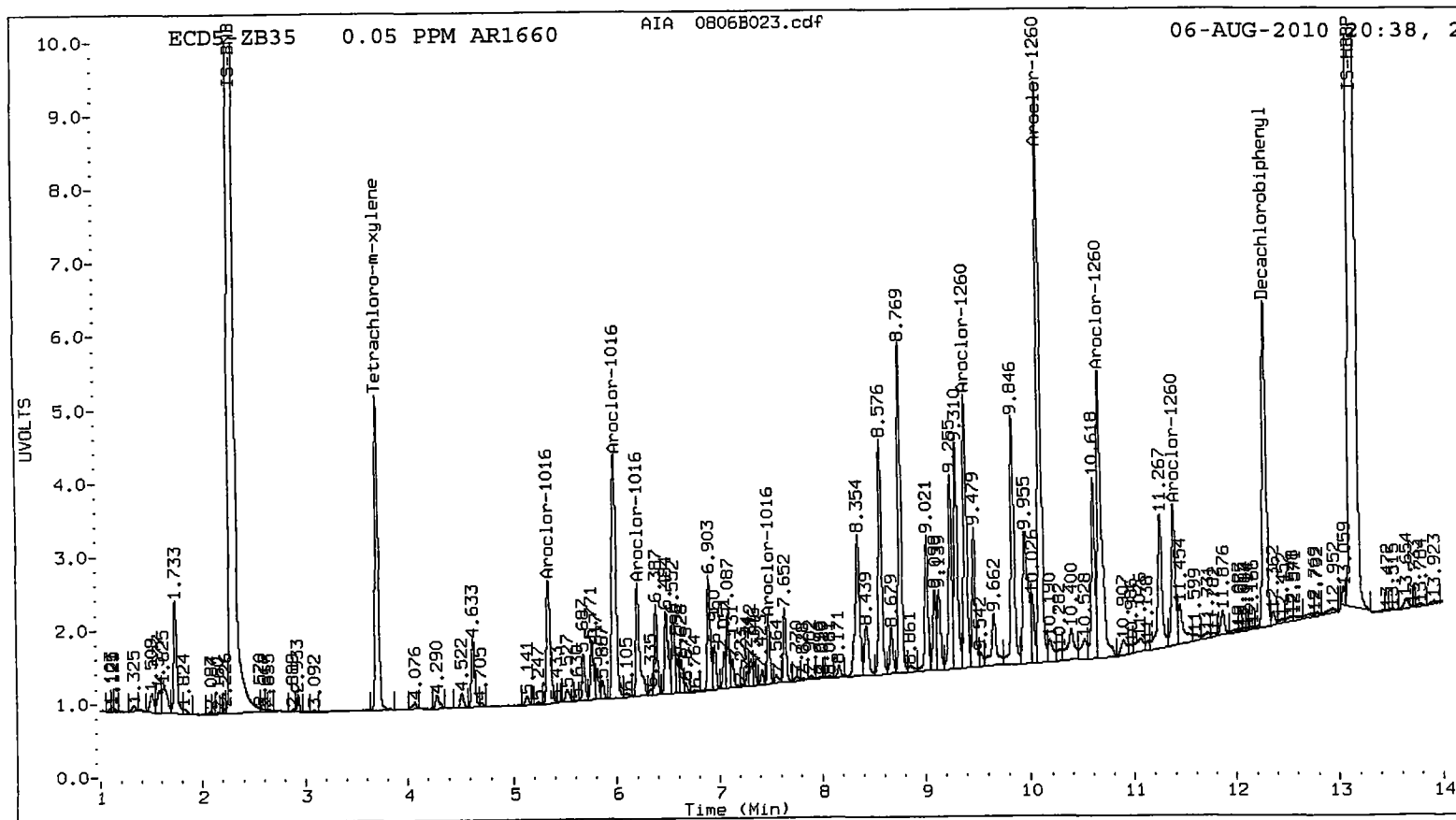
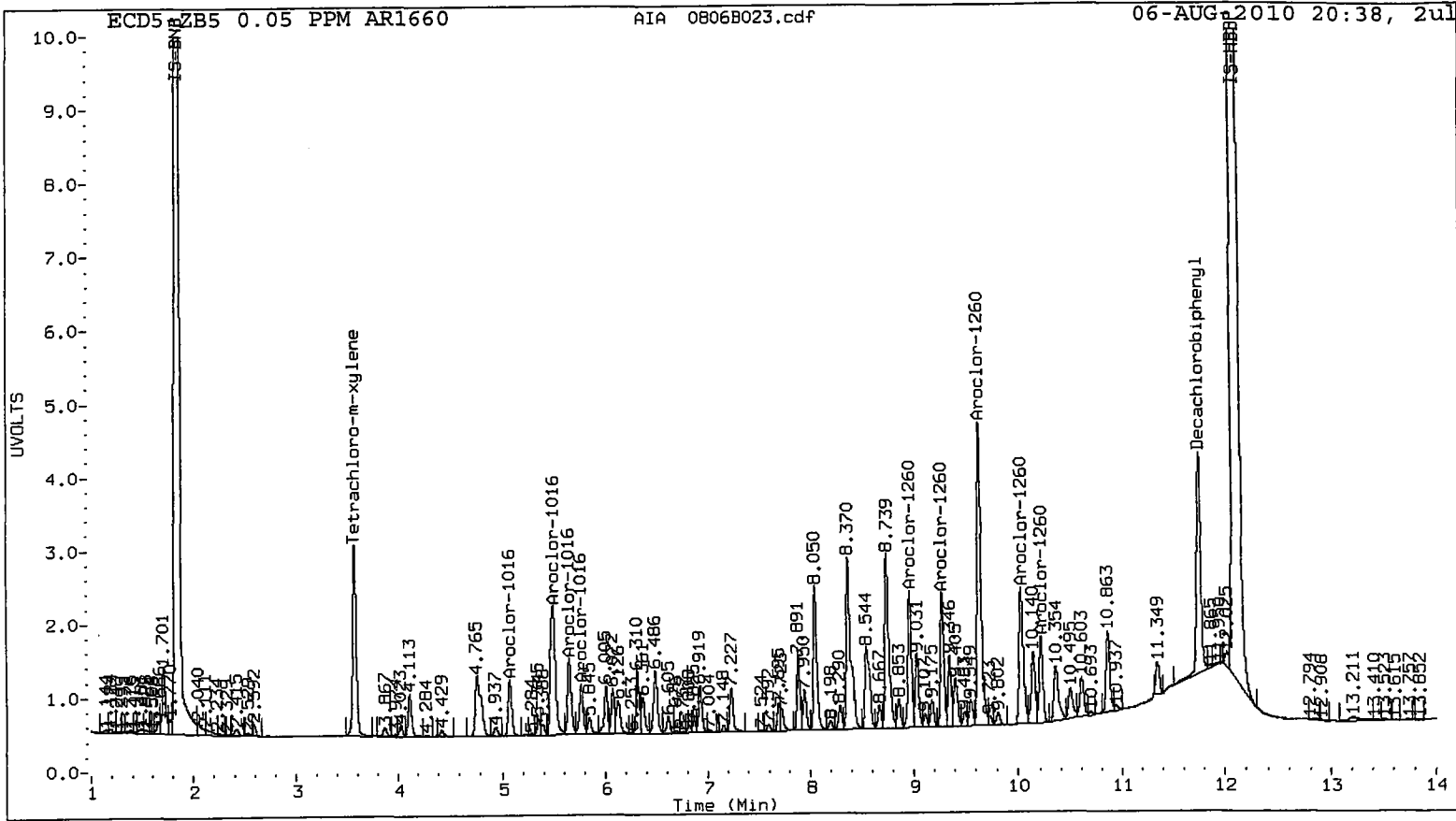
- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.074	0.001	920343	53.3	1	5.349	-0.001	2233152	54.0
Aroclor-1016	2	5.493	0.001	3075748	54.5	2	5.995	-0.001	4799560	53.9
Aroclor-1016	3	5.649	0.001	1278594	54.5	3	6.209	0.000	1889280	52.8
Aroclor-1016	4	5.764	0.001	859074	53.2	4	7.489	0.000	838351	50.4
Total Col1Ave (4 peaks):				53.9		Total Col2Ave (4 peaks):				52.8 RPD = 2
Corrected Ave (3 peaks):				53.7		Corrected Ave (3 peaks):				52.4 RPD = 2
Aroclor-1260	1	8.963	0.001	2194602	54.8	1	9.400	0.000	3934585	53.6
Aroclor-1260	2	9.273	0.001	2083151	54.7	2	10.105	0.000	8922750	53.6
Aroclor-1260	3	9.637	0.002	5300038	55.5	3	10.678	0.001	5953763	54.0
Aroclor-1260	4	10.028	0.001	2549003	53.8	4	11.395	0.001	2424661	51.9
Aroclor-1260	5	10.212	0.002	1446306	53.2	NS	---			----
Total Col1Ave (5 peaks):				54.4		Total Col2Ave (4 peaks):				53.3 RPD = 2
Corrected Ave (4 peaks):				54.1		Corrected Ave (3 peaks):				53.0 RPD = 2

Total PCB Area Col1 (3.671 - 11.652) = 55129968 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 92589593 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B024.d
Data file 2: 20100806.b/ical-2.b/0806B024.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 1 PPM AR1660
Client ID:
Injection Date: 06-AUG-2010 20:57
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	48760933	3.708	0.000	78000685	71.9	74.0	2.9	Tetrachloro-m-xylene
11.753	0.001	59902239	12.284	0.001	96787658	66.4	74.6	11.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	179.7	184.9
Decachlorobiphenyl	166.1	186.6

08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	33253678	-6.6
Hexabromobiphenyl	47117515	44774484	-5.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	75185802	-4.0
Hexabromobiphenyl	74720444	71292288	-4.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.073	0.000	14035937	873.5	1	5.349	-0.001	33493131	850.6
Aroclor-1016	2	5.494	0.001	44671350	850.2	2	5.996	0.000	73392377	865.4
Aroclor-1016	3	5.649	0.000	18546489	849.6	3	6.210	0.000	30359261	891.2
Aroclor-1016	4	5.764	0.000	13442418	894.1	4	7.489	0.000	13760372	869.8
Total Col1Ave (4 peaks):				866.8	Total Col2Ave (4 peaks):				869.2	RPD = 0
Corrected Ave (3 peaks):				857.8	Corrected Ave (3 peaks):				861.9	RPD = 0
Aroclor-1260	1	8.963	0.000	32161610	851.9	1	9.401	0.001	60964308	873.9
Aroclor-1260	2	9.273	0.001	30597098	853.1	2	10.105	0.000	141381885	893.1
Aroclor-1260	3	9.635	0.000	73353909	815.9	3	10.678	0.000	88751433	847.3
Aroclor-1260	4	10.026	-0.001	39028158	874.9	4	11.396	0.002	39923958	899.0
Aroclor-1260	5	10.211	0.001	23196680	905.4	NS	---			----
Total Col1Ave (5 peaks):				860.2	Total Col2Ave (4 peaks):				878.3	RPD = 2
Corrected Ave (4 peaks):				849.0	Corrected Ave (3 peaks):				871.4	RPD = 3

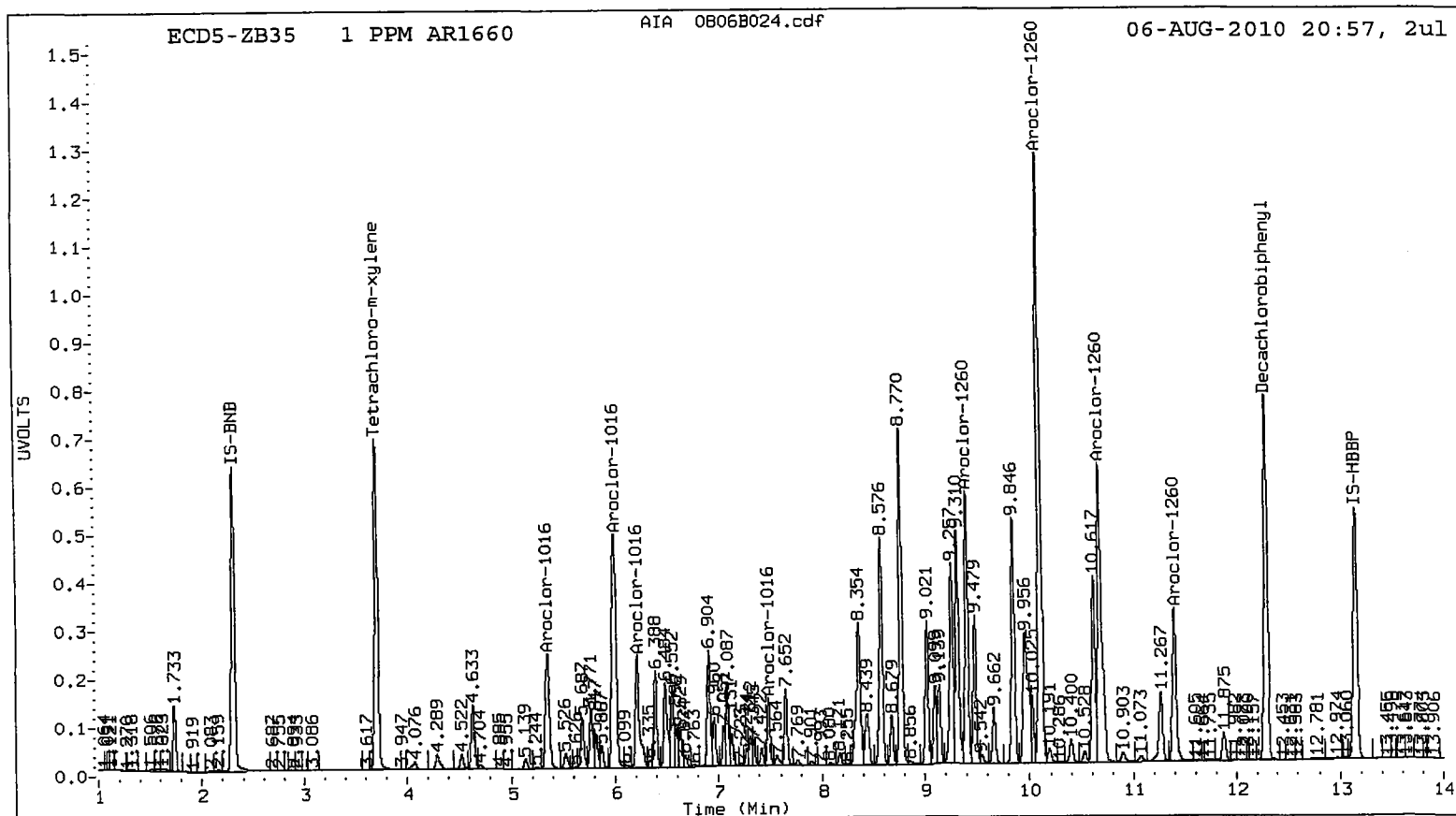
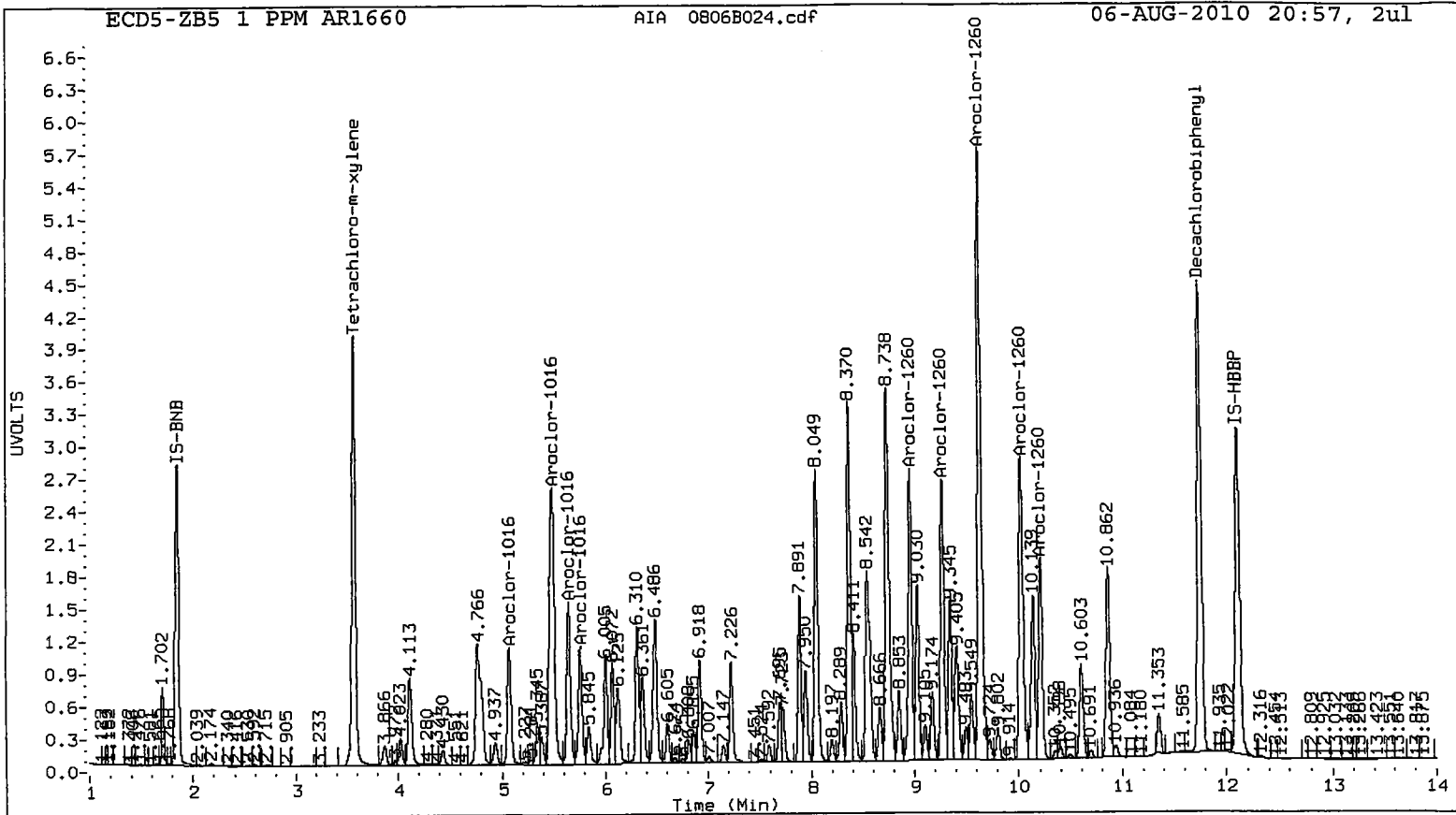
Total PCB Area Col1 (3.671 - 11.652) = 801100714

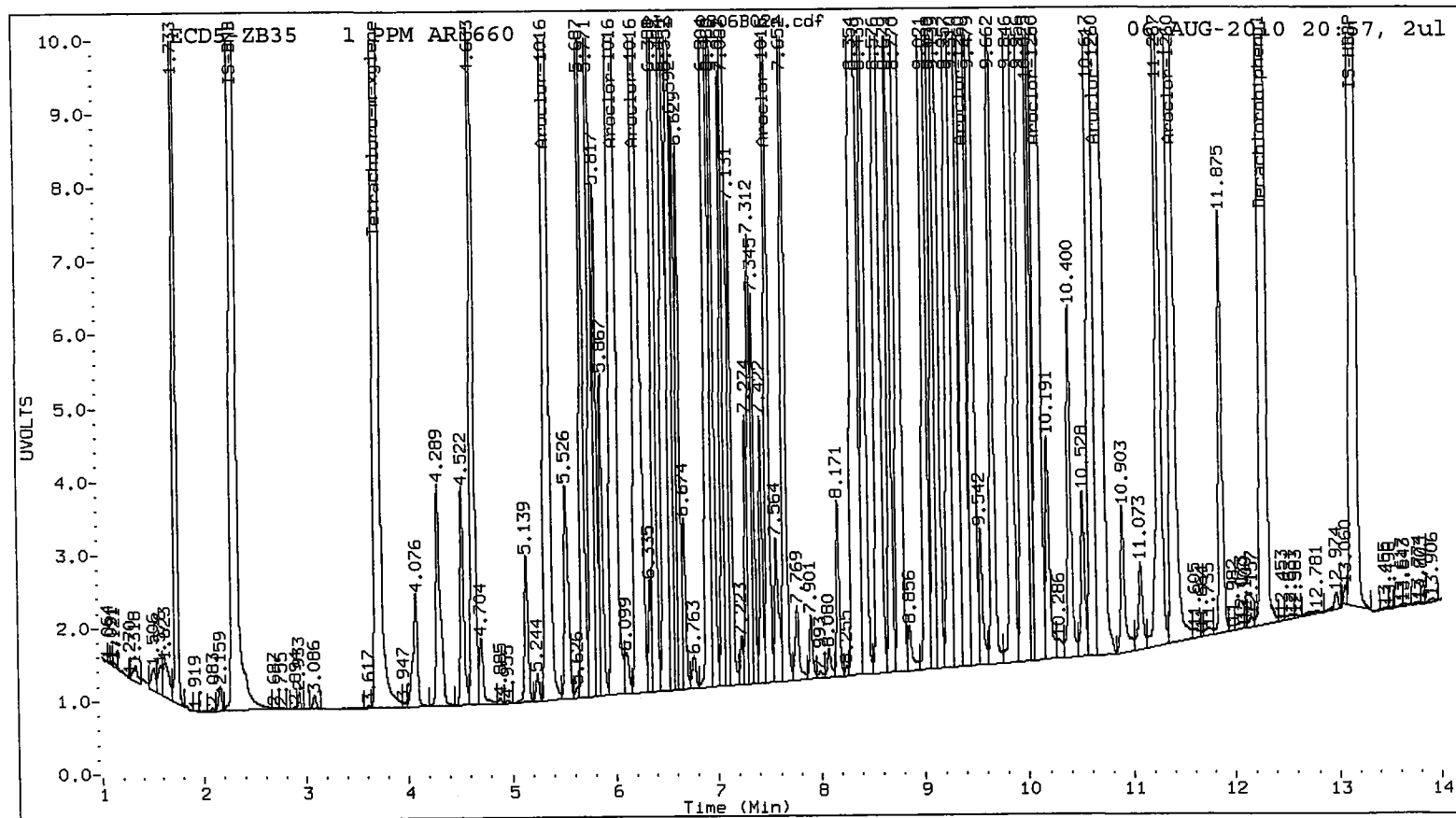
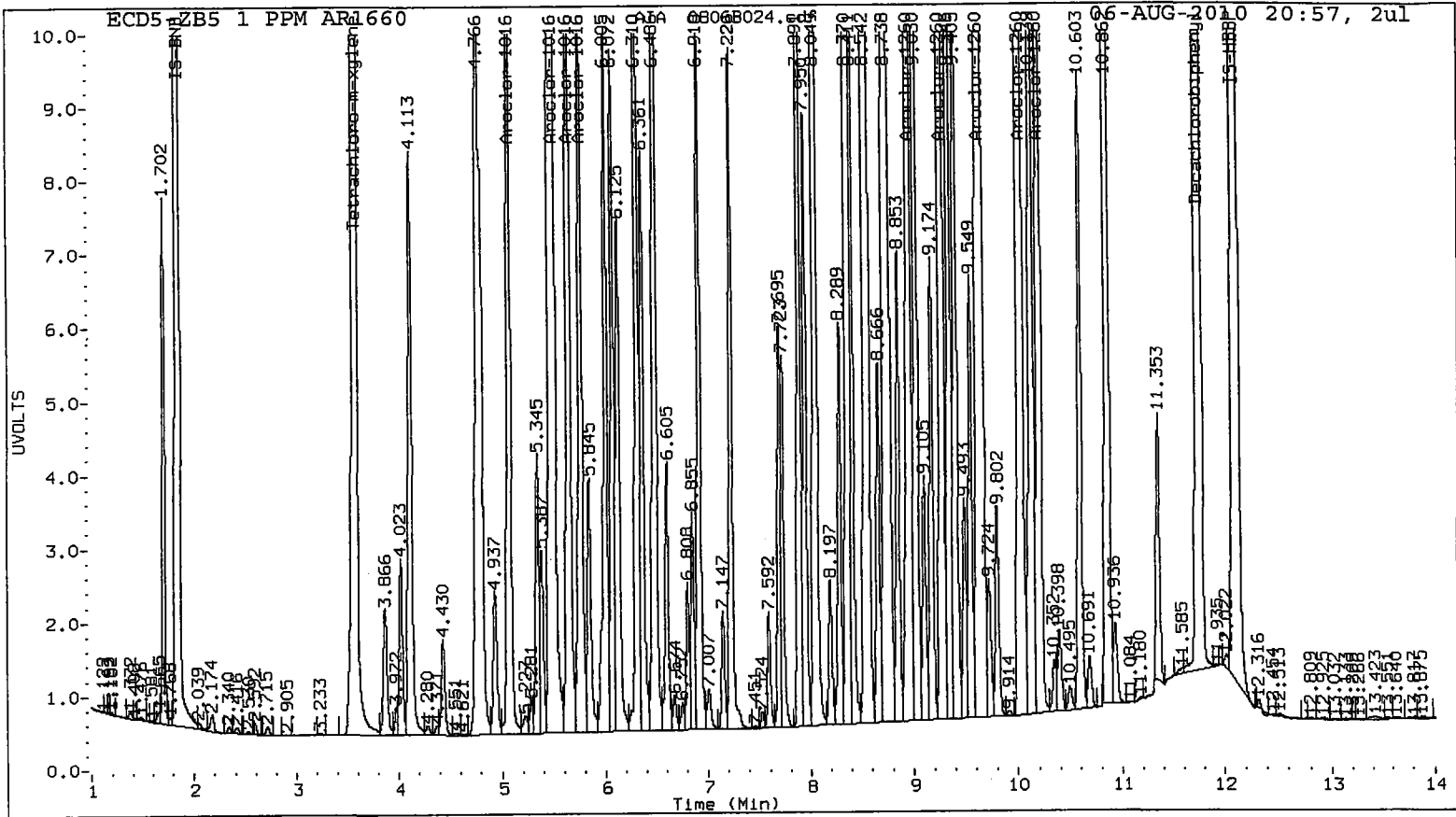
Col1 Total PCB = 1.8 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 1342249977

Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B025.d
Data file 2: 20100806.b/ical-2.b/0806B025.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1 PPM AR1660
Client ID:
Injection Date: 06-AUG-2010 21:16
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	6177223	3.708	0.000	9230550	8.6	8.5	1.7	Tetrachloro-m-xylene
11.753	0.000	7964584	12.282	-0.001	11327057	8.4	8.4	0.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	21.5	21.2
Decachlorobiphenyl	21.0	20.9

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	35141749	-1.3
Hexabromobiphenyl	47117515	47140759	0.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	77718764	-0.8
Hexabromobiphenyl	74720444	74425032	-0.4

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.074	0.001	1816404	107.0	1	5.349	-0.001	4391005	107.9
Aroclor-1016	2	5.493	0.000	6016017	108.4	2	5.995	-0.001	9391237	107.1
Aroclor-1016	3	5.650	0.001	2492019	108.0	3	6.209	0.000	3751993	106.6
Aroclor-1016	4	5.764	0.000	1687040	106.2	4	7.489	0.000	1721318	105.3
Total Col1Ave (4 peaks):				107.4		Total Col2Ave (4 peaks):				106.7 RPD = 1
Corrected Ave (3 peaks):				107.1		Corrected Ave (3 peaks):				106.3 RPD = 1
Aroclor-1260	1	8.963	0.000	4308136	108.4	1	9.400	0.000	7649887	105.0
Aroclor-1260	2	9.273	0.001	4087282	108.2	2	10.104	-0.001	17514063	106.0
Aroclor-1260	3	9.636	0.001	10295871	108.8	3	10.677	0.000	11221027	102.6
Aroclor-1260	4	10.027	0.000	5038123	107.3	4	11.396	0.001	4677995	100.9
Aroclor-1260	5	10.210	0.000	2876401	106.6	NS	---			----
Total Col1Ave (5 peaks):				107.9		Total Col2Ave (4 peaks):				103.6 RPD = 4
Corrected Ave (4 peaks):				107.6		Corrected Ave (3 peaks):				102.9 RPD = 5

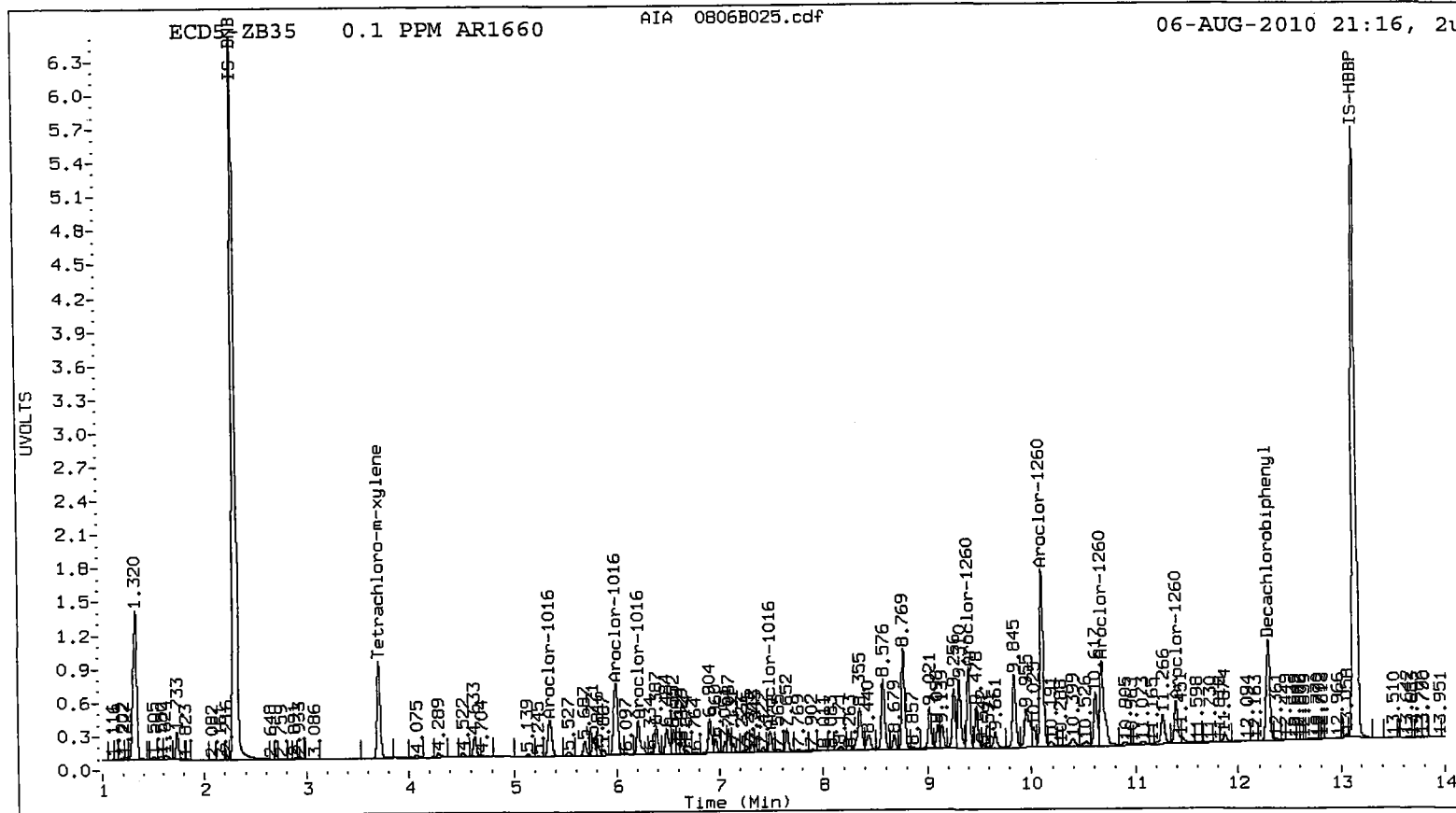
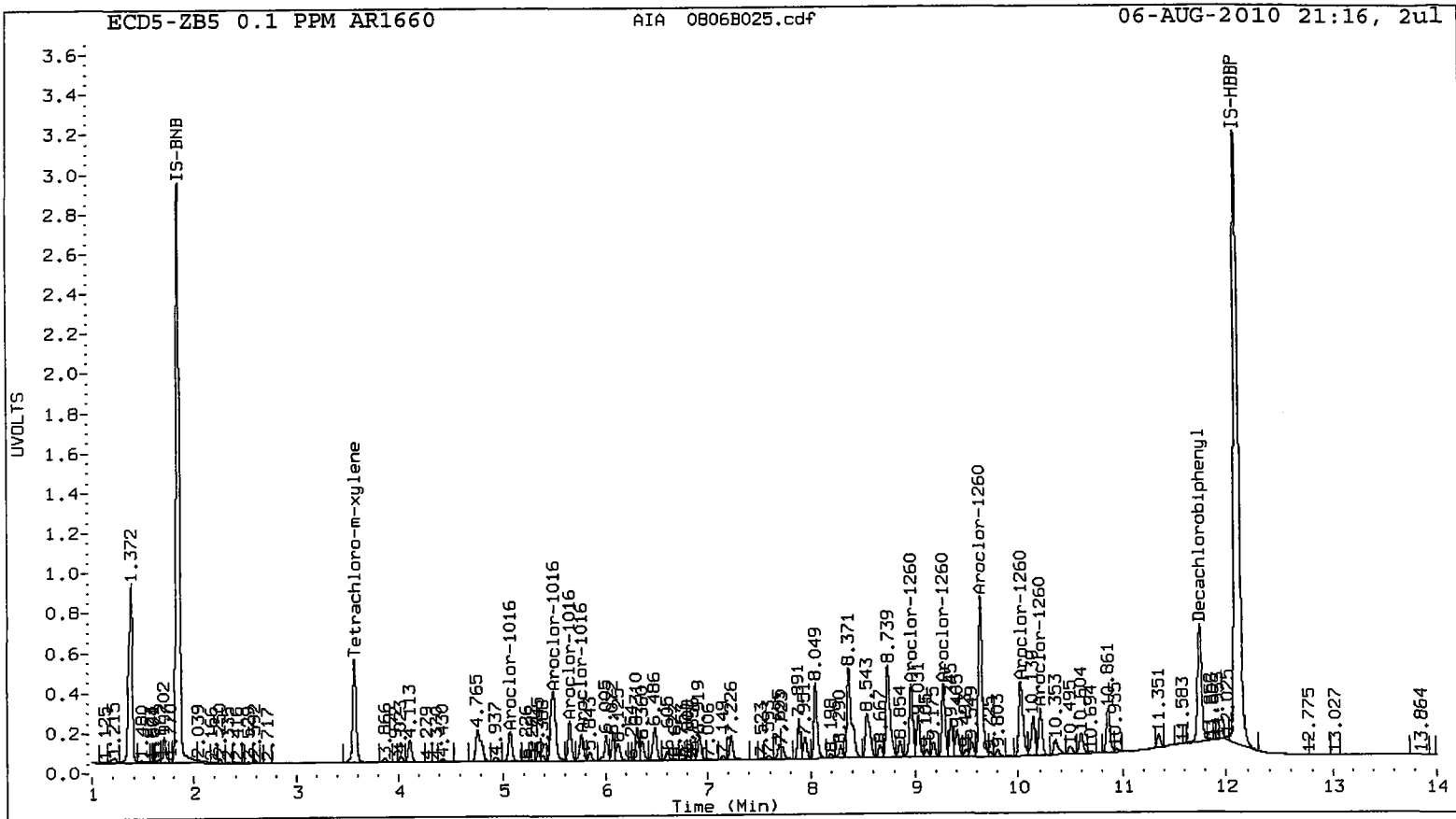
Total PCB Area Col1 (3.671 - 11.652) = 106079885

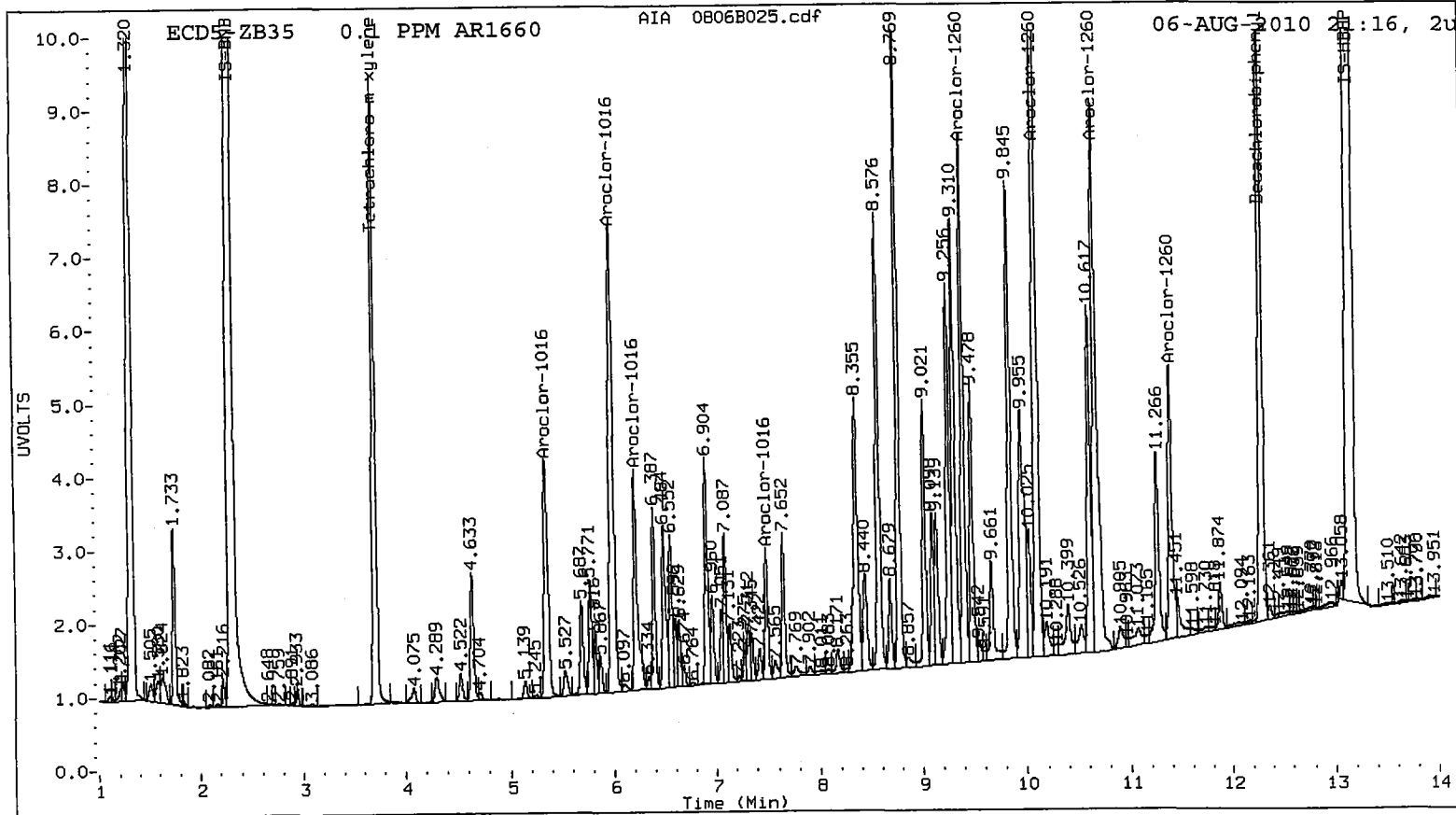
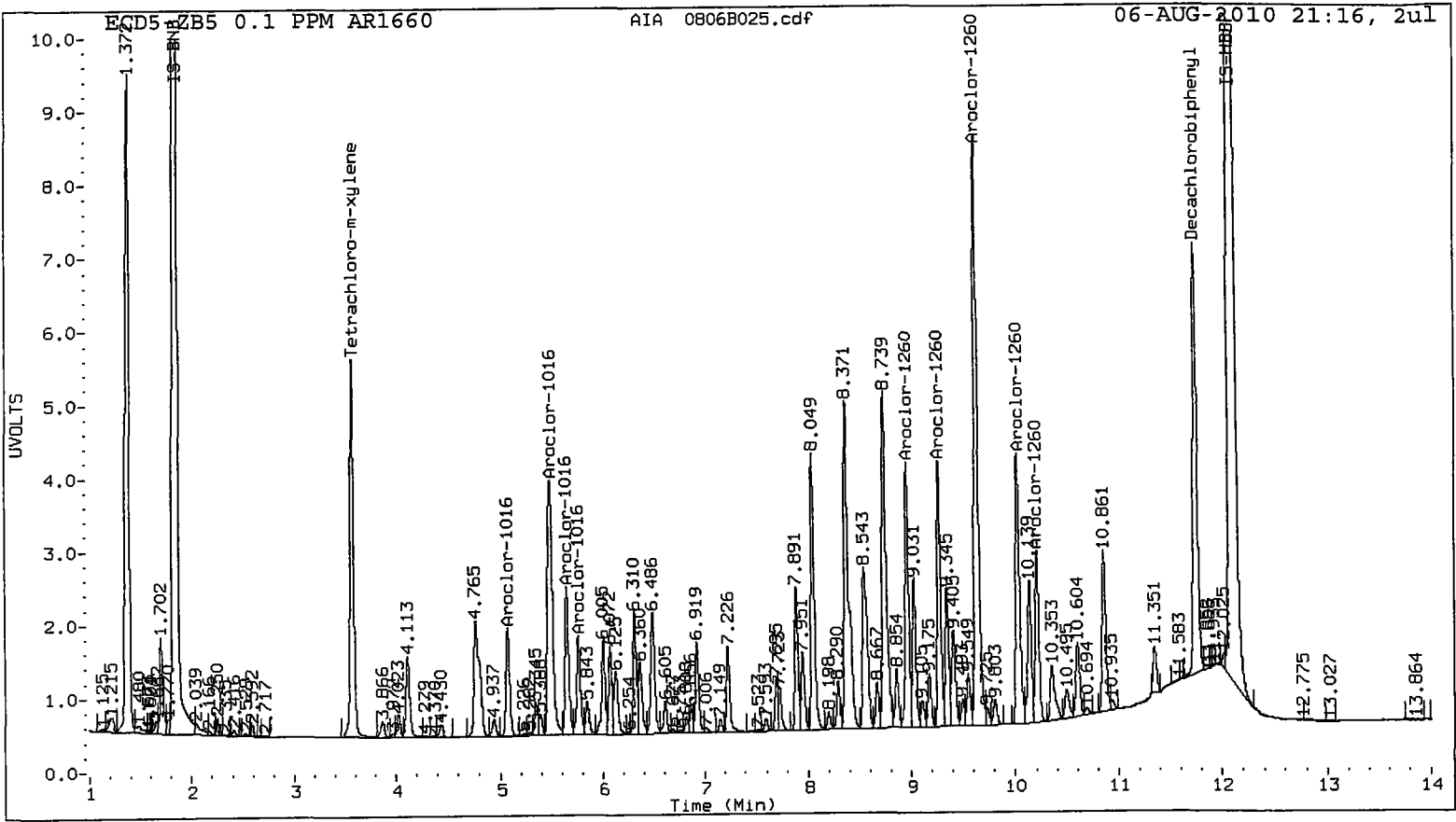
Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 173664592

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B026.d
Data file 2: 20100806.b/ical-2.b/0806B026.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5 PPM AR1660
Client ID:
Injection Date: 06-AUG-2010 21:34
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	27051224	3.709	0.001	42056907	38.3	39.2	2.4	Tetrachloro-m-xylene
11.752	-0.001	34267319	12.282	-0.001	51982857	35.9	38.0	5.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	95.8	98.1
Decachlorobiphenyl	89.7	95.0

08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	34587004	-2.8
Hexabromobiphenyl	47117515	47430994	0.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	76403985	-2.5
Hexabromobiphenyl	74720444	75166143	0.6

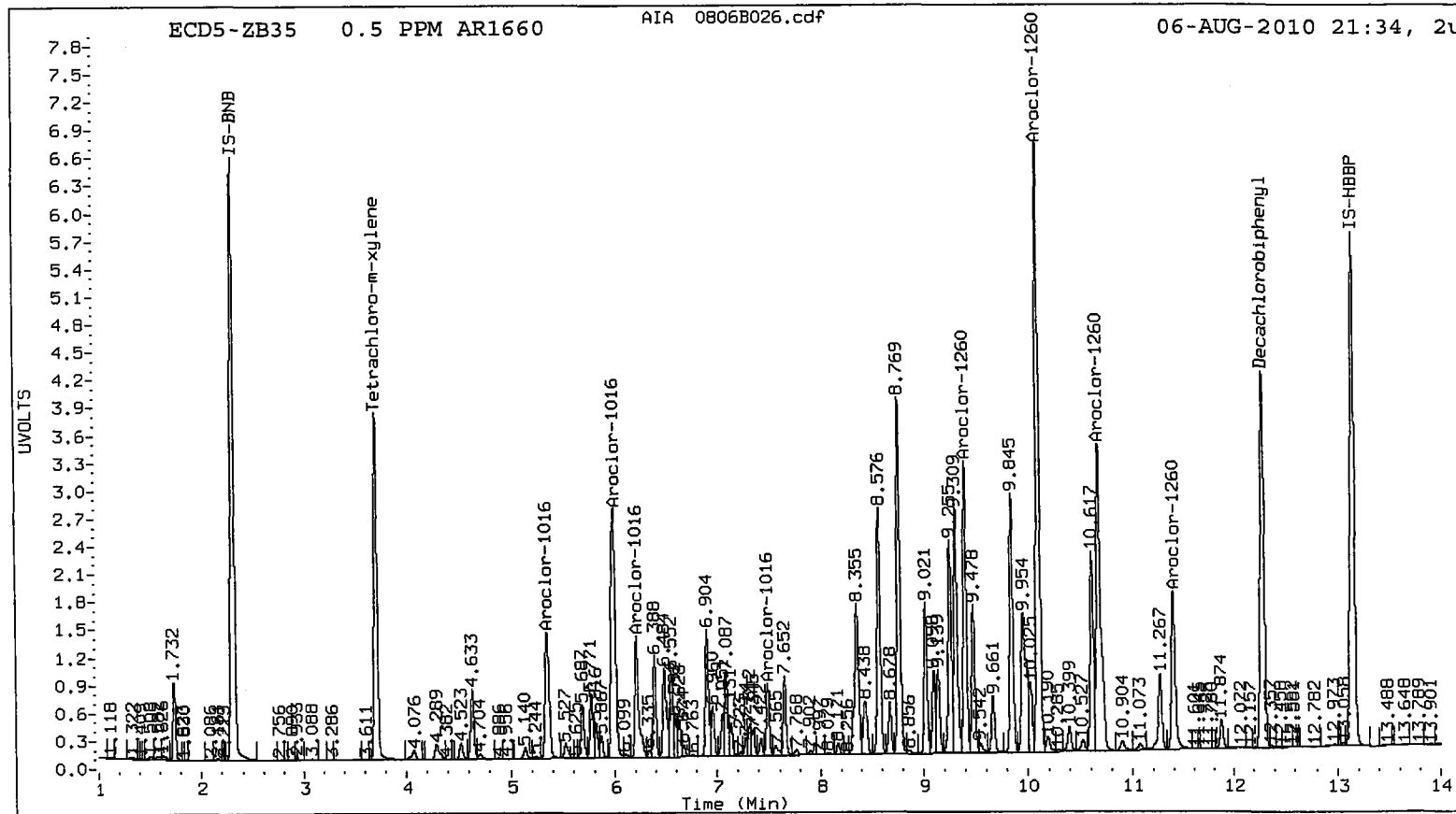
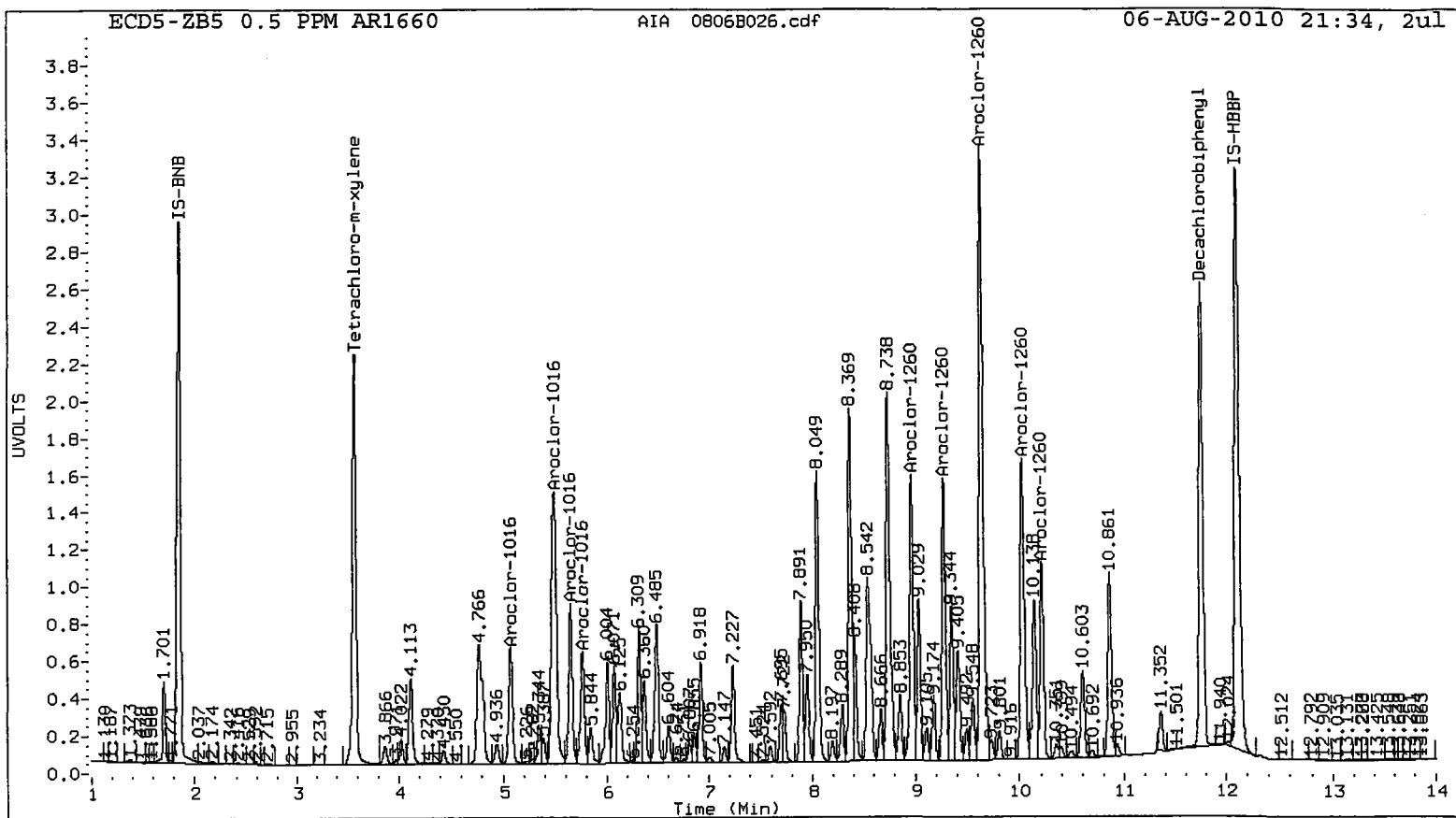
- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

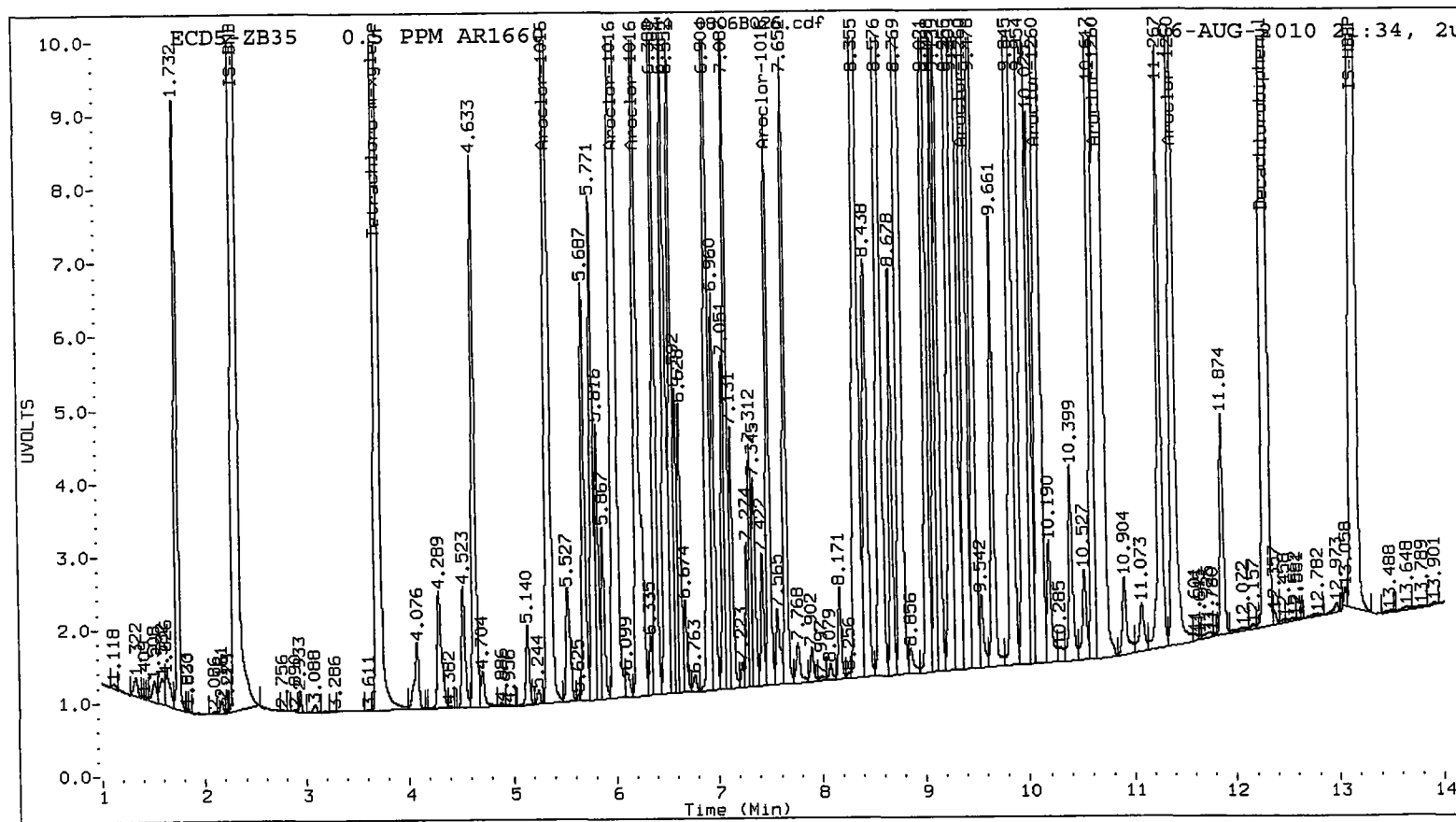
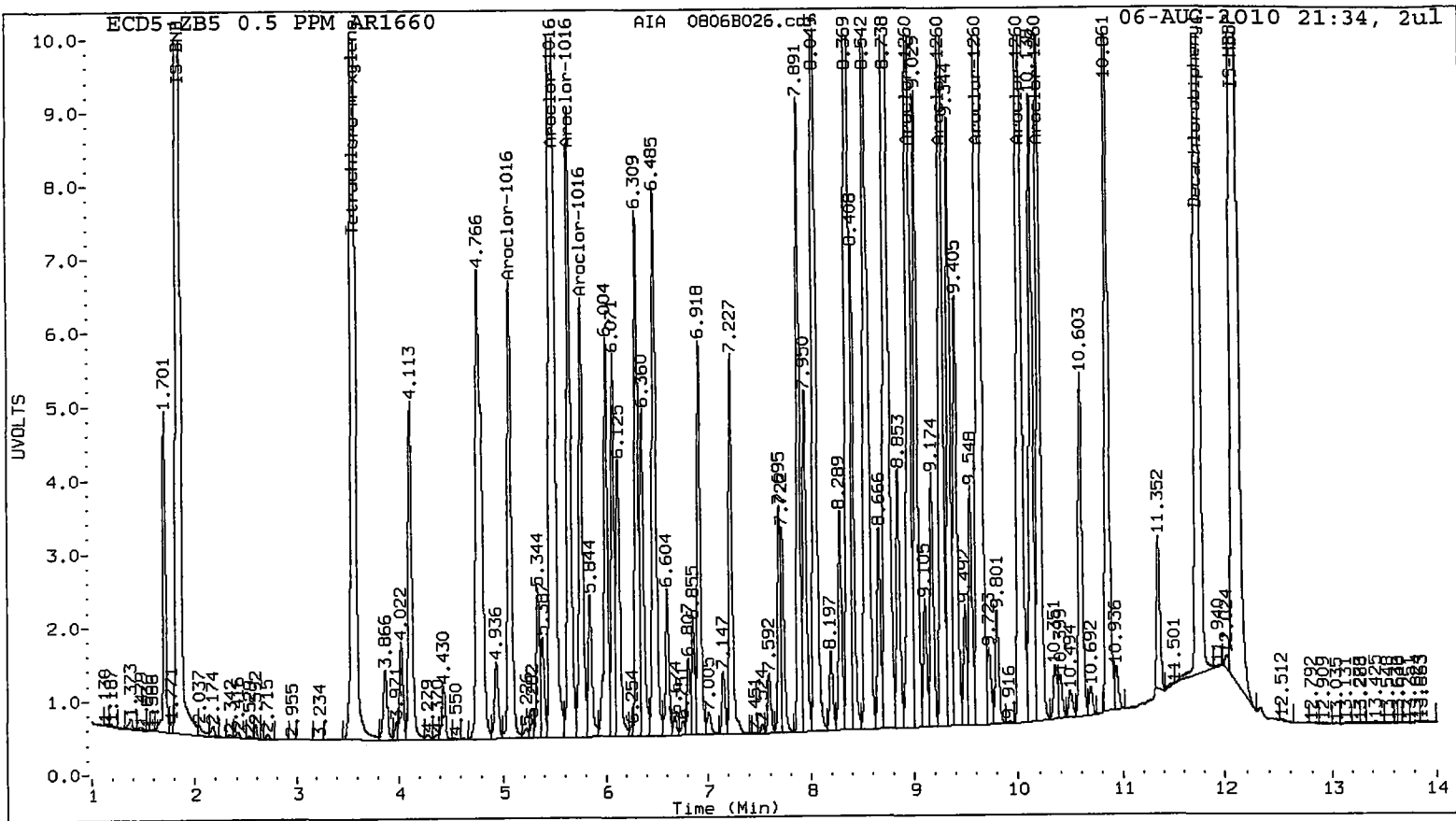
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.073	0.000	7954281	475.9	1	5.350	0.000	18768123	469.0
Aroclor-1016	2	5.493	0.000	25500613	466.6	2	5.996	0.000	40671272	471.9
Aroclor-1016	3	5.649	0.000	10575623	465.8	3	6.209	0.000	16598134	479.5
Aroclor-1016	4	5.764	0.000	7514885	480.6	4	7.489	0.000	7521989	467.9
Total Col1Ave (4 peaks):				472.2	Total Col2Ave (4 peaks):				472.1	RPD = 0
Corrected Ave (3 peaks):				469.5	Corrected Ave (3 peaks):				469.6	RPD = 0
Aroclor-1260	1	8.962	0.000	18339447	458.6	1	9.400	0.000	33415433	454.3
Aroclor-1260	2	9.272	0.000	17456039	459.5	2	10.105	0.000	74635470	447.1
Aroclor-1260	3	9.635	0.000	42569012	447.0	3	10.678	0.000	47813594	433.0
Aroclor-1260	4	10.027	0.000	22027590	466.1	4	11.395	0.000	21862646	467.0
Aroclor-1260	5	10.210	0.000	12902429	475.4	NS	---			----
Total Col1Ave (5 peaks):				461.3	Total Col2Ave (4 peaks):				450.3	RPD = 2
Corrected Ave (4 peaks):				457.8	Corrected Ave (3 peaks):				444.8	RPD = 3

Total PCB Area Col1 (3.671 - 11.652) = 452664364 Col1 Total PCB = 1.0 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 731315116 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B027.d
Data file 2: 20100806.b/ical-2.b/0806B027.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 06-AUG-2010 21:53
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.571	0.000 14540814	3.708 0.000 22270186	20.0	20.0	0.2	Tetrachloro-m-xylene
11.754	0.002 18613012	12.283 0.000 27158368	19.3	19.7	1.7	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.9	50.0
Decachlorobiphenyl	48.3	49.2

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	35718835	0.4
Hexabromobiphenyl	47117515	47789405	1.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	79434556	1.4
Hexabromobiphenyl	74720444	75855933	1.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

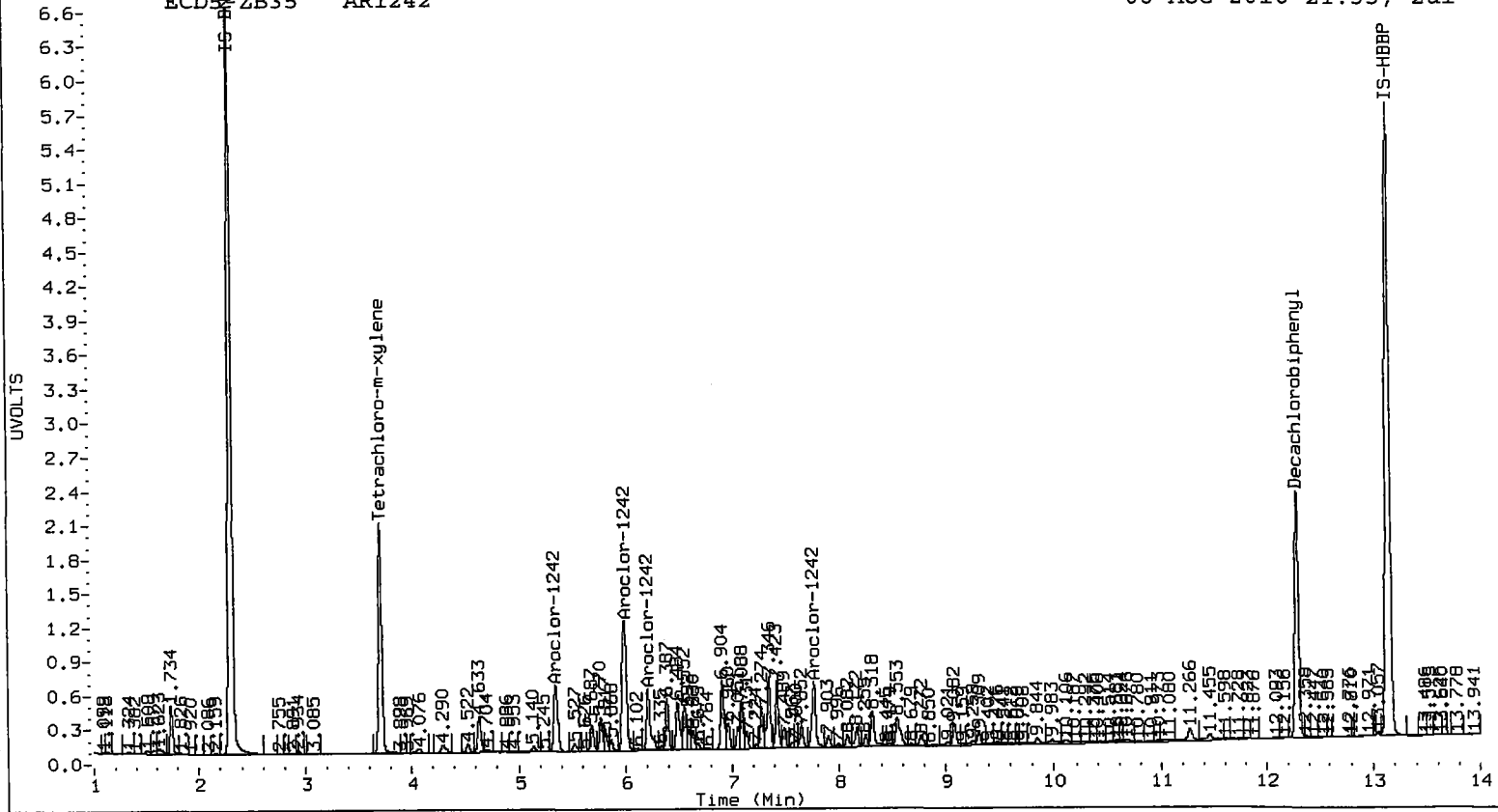
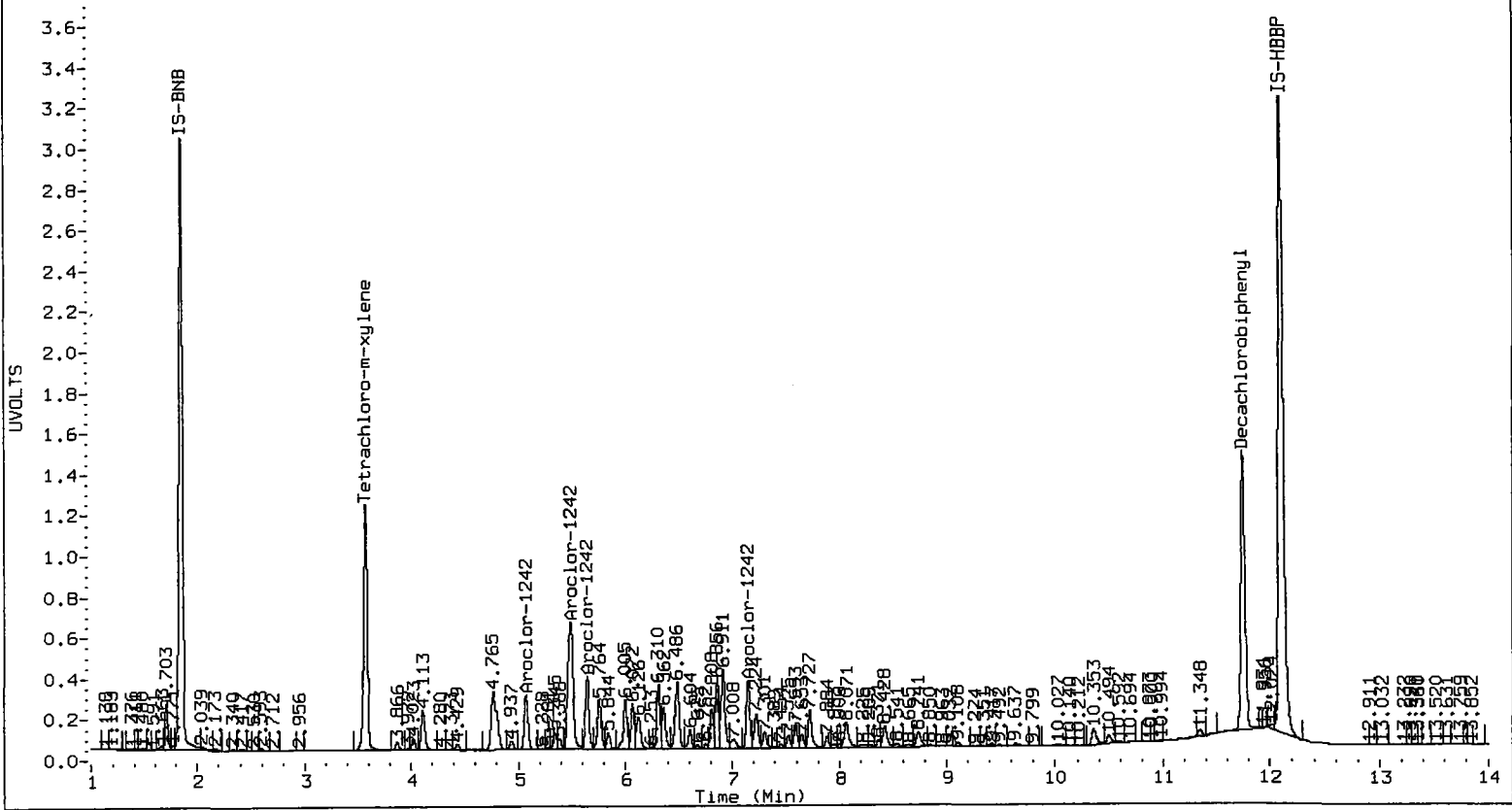
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	5.074	0.000	3309036	250.0	1	5.349	0.000	7898438	250.0
Aroclor-1242	2	5.494	0.000	10799742	250.0	2	5.995	0.000	16925292	250.0
Aroclor-1242	3	5.650	0.000	4479088	250.0	3	6.209	0.000	6827617	250.0
Aroclor-1242	4	7.146	0.000	3873725	250.0	4	7.770	0.000	7193929	250.0
Total CollAve (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0

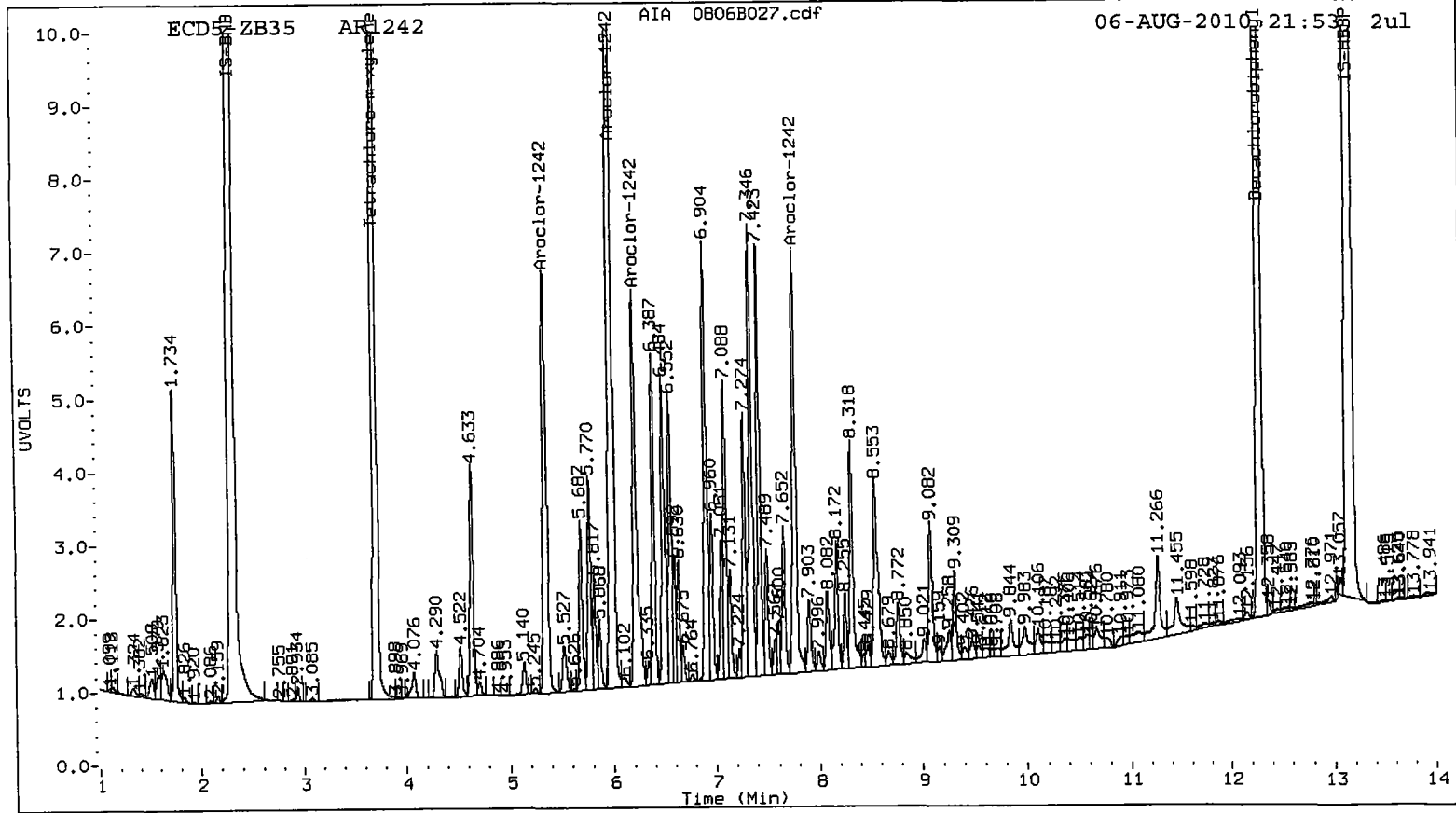
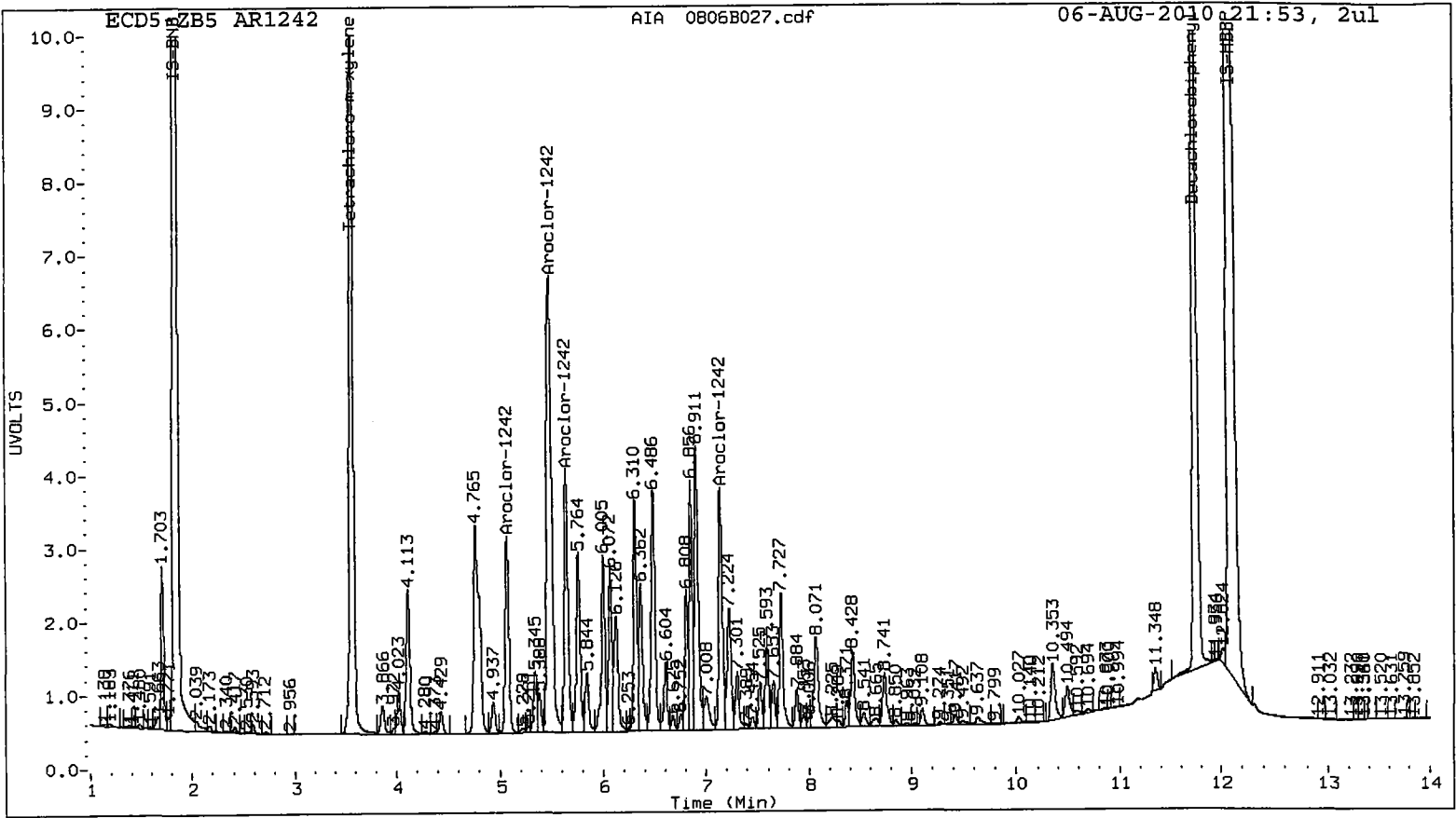
Total PCB Area Col1 (3.671 - 11.652) = 87492969 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 141423640 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B028.d
Data file 2: 20100806.b/ical-2.b/0806B028.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 06-AUG-2010 22:12
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	16100162	3.707	-0.001	25123837	22.9	23.4	1.9	Tetrachloro-m-xylene
11.753	0.001	18333537	12.283	0.001	26752845	19.6	20.1	2.1	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	57.3	58.5
Decachlorobiphenyl	49.1	50.2

Handwritten: 08/09/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	34395757	-3.4
Hexabromobiphenyl	47117515	46337936	-1.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	76584766	-2.3
Hexabromobiphenyl	74720444	73271800	-1.9

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

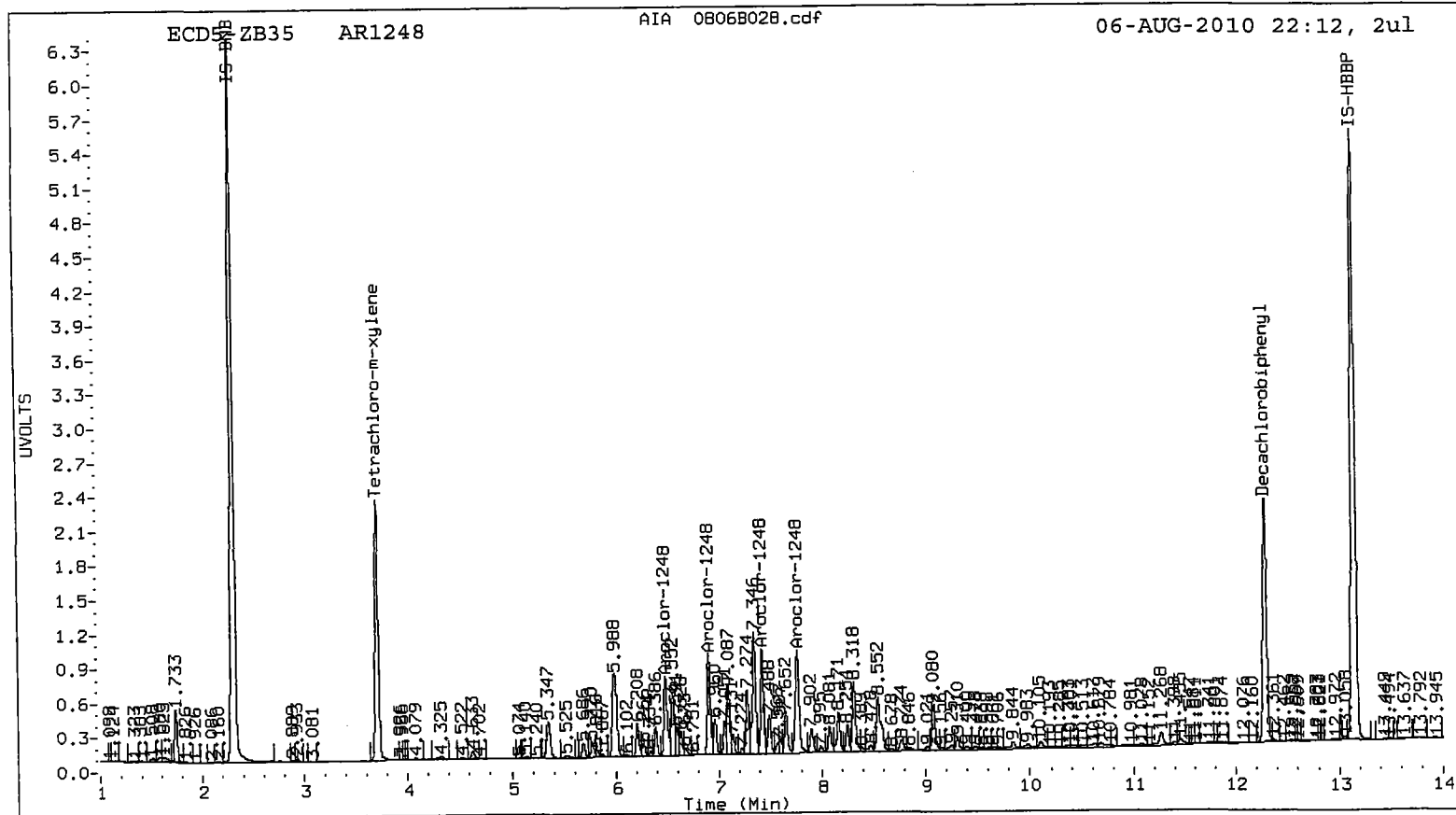
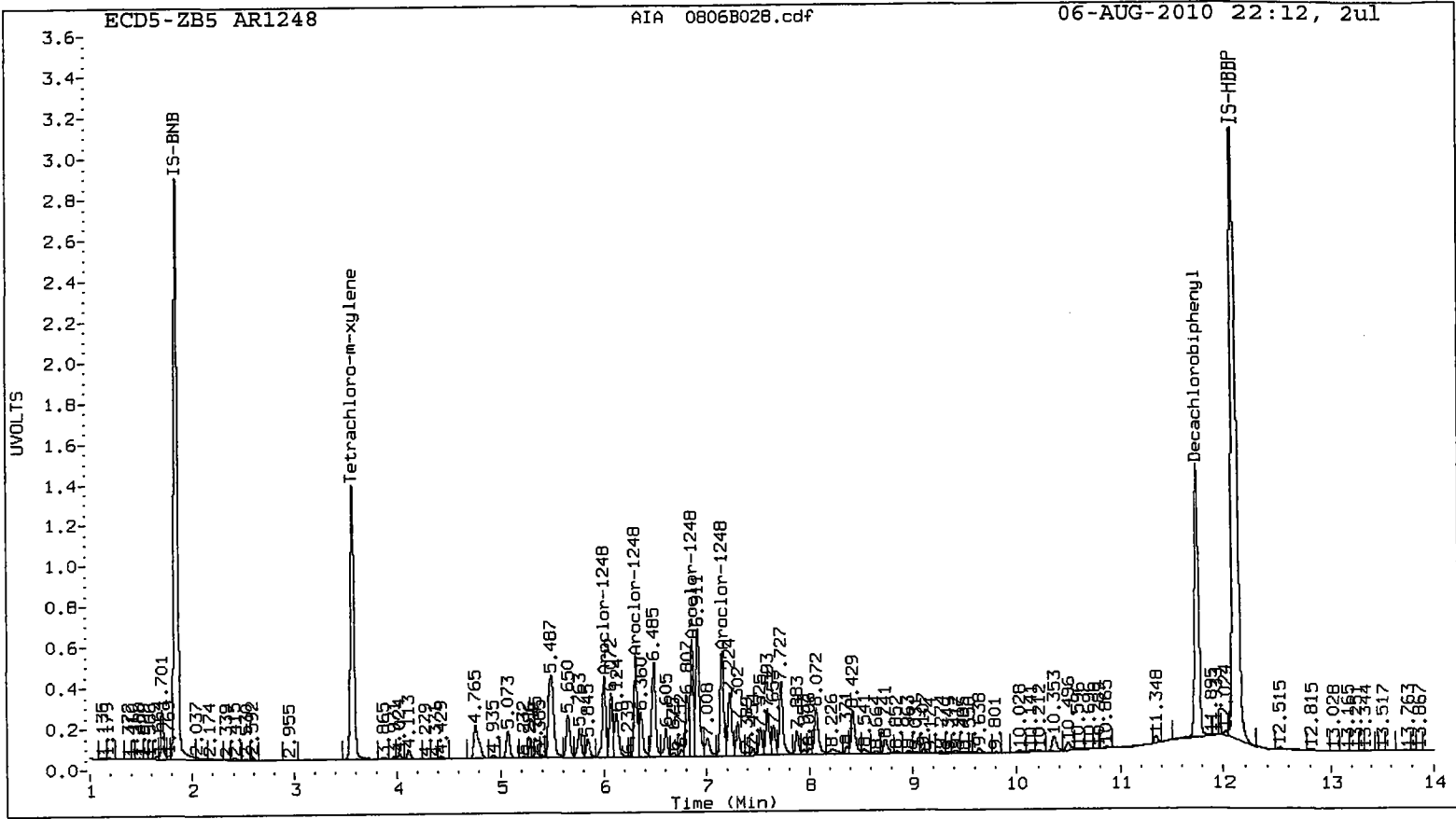
		ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	6.004	0.000	4616709	250.0	1	6.483	0.000	7732697	250.0
Aroclor-1248	2	6.309	0.000	5302570	250.0	2	6.903	0.000	8974546	250.0
Aroclor-1248	3	6.855	0.000	6250340	250.0	3	7.423	0.000	8949302	250.0
Aroclor-1248	4	7.145	0.000	5949751	250.0	4	7.769	0.000	11569786	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

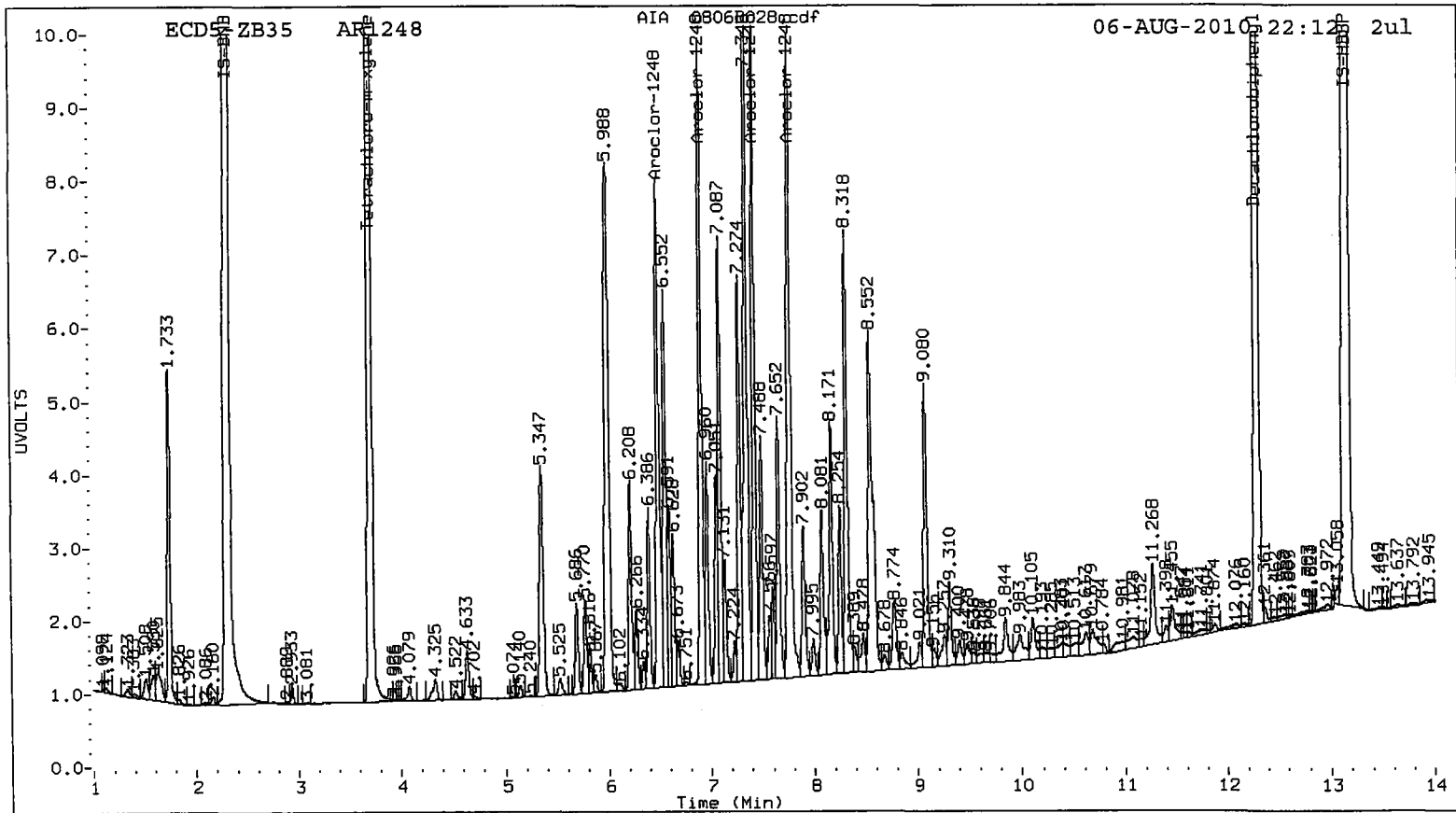
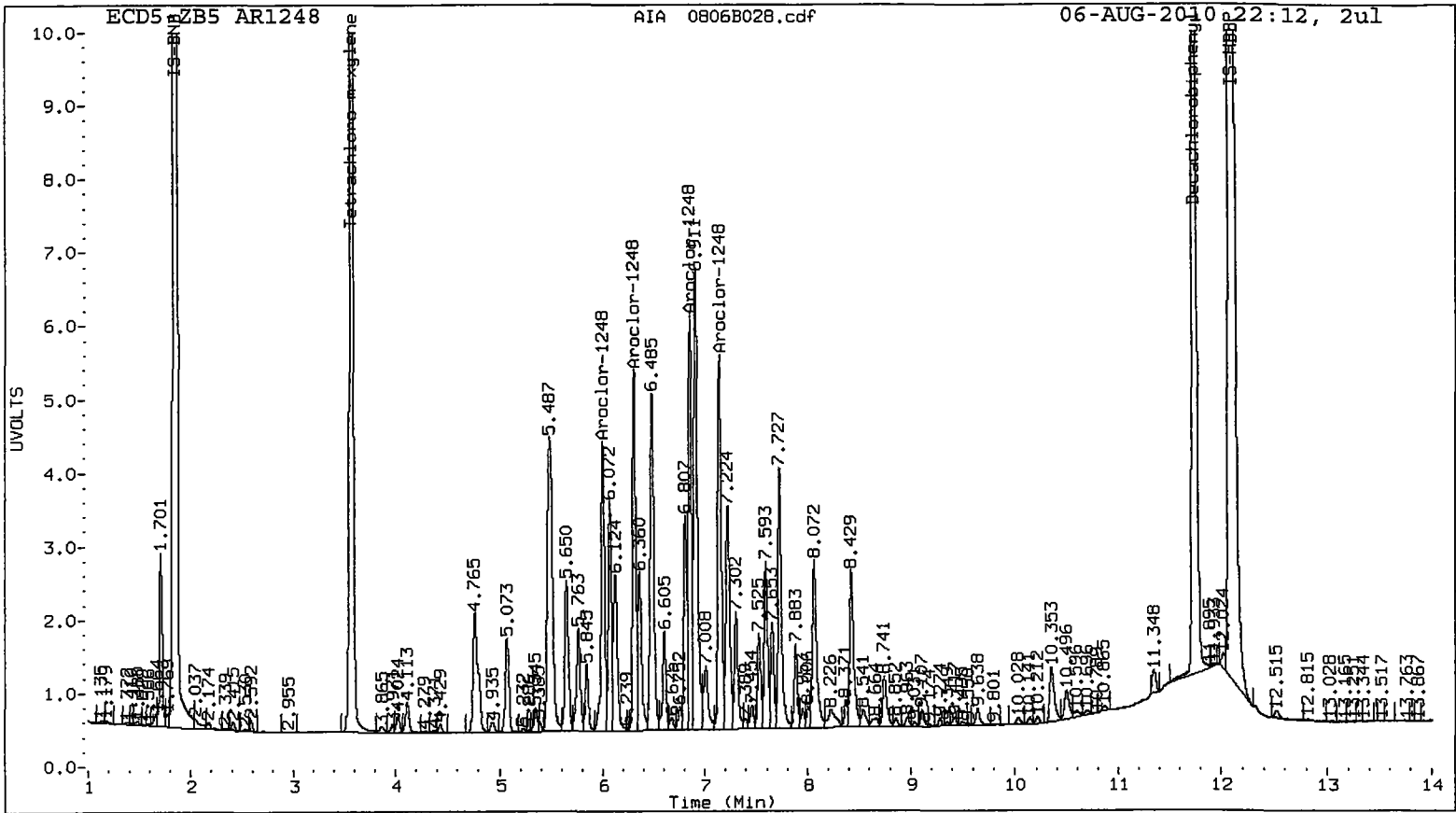
Total PCB Area Col1 (3.671 - 11.652) = 101984351 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 162761990 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B029.d
Data file 2: 20100806.b/ical-2.b/0806B029.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 06-AUG-2010 22:31
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	13808379	3.708	0.000	21504425	18.7	19.2	2.7	Tetrachloro-m-xylene
11.753	0.001	18149611	12.283	0.000	26467845	18.6	19.1	2.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.8	48.1
Decachlorobiphenyl	46.6	47.7

08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	36144916	1.5
Hexabromobiphenyl	47117515	48369151	2.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	79711981	1.7
Hexabromobiphenyl	74720444	76212356	2.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
-< Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	6.919	0.000	7349697	250.0	1	7.489	0.000	9446671	250.0
Aroclor-1254	2	7.226	0.000	10265321	250.0	2	7.652	0.000	12948712	250.0
Aroclor-1254	3	7.592	0.000	6902111	250.0	3	8.172	0.000	9739834	250.0
Aroclor-1254	4	7.726	0.000	12793463	250.0	4	8.319	0.000	21379530	250.0
Aroclor-1254	5	8.423	0.000	9032625	250.0	5	9.085	0.000	13024851	250.0
Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):				250.0	RPD = 0
Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):				250.0	RPD = 0

Total PCB Area Col1 (3.671 - 11.652) = 138540395

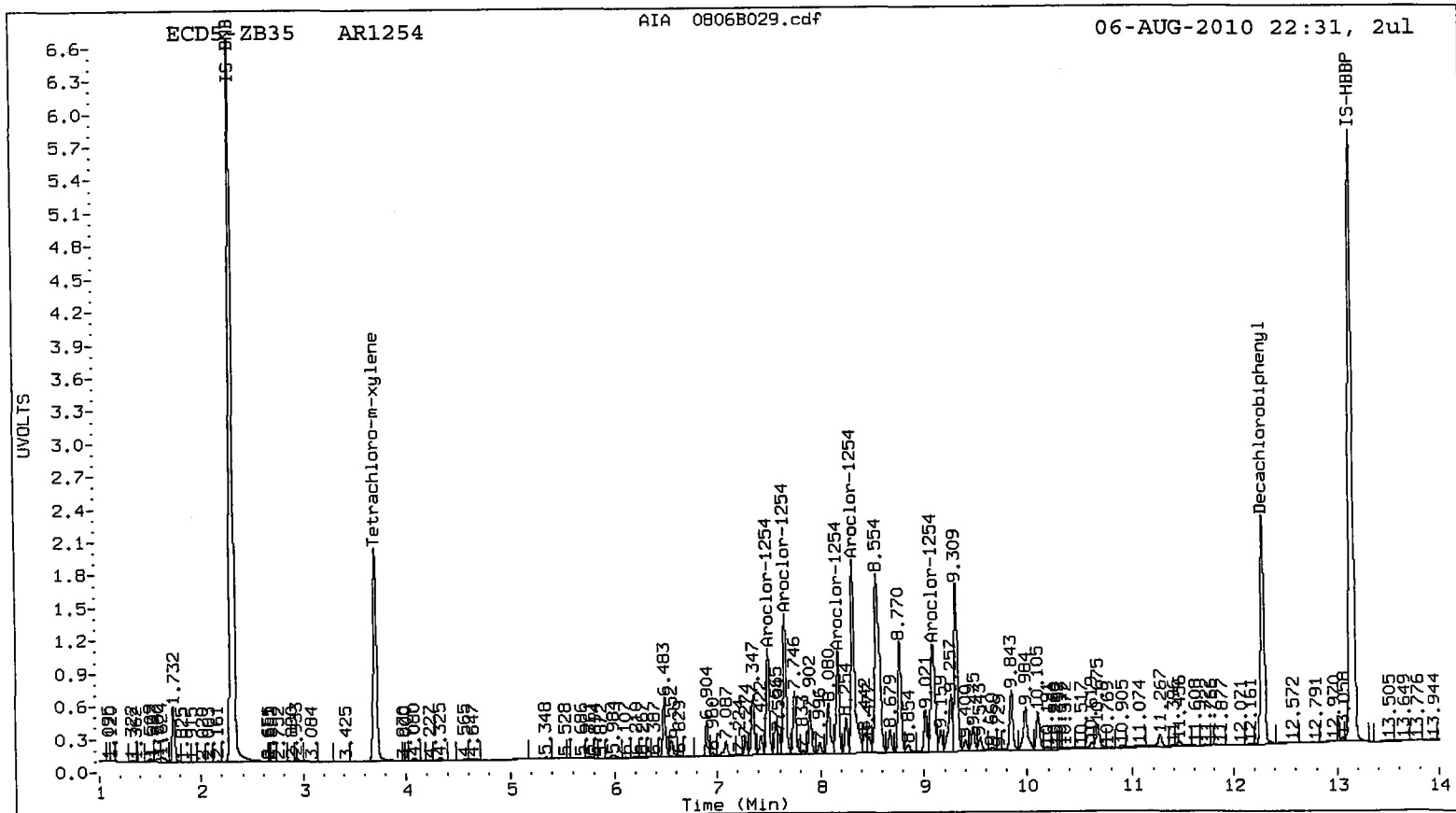
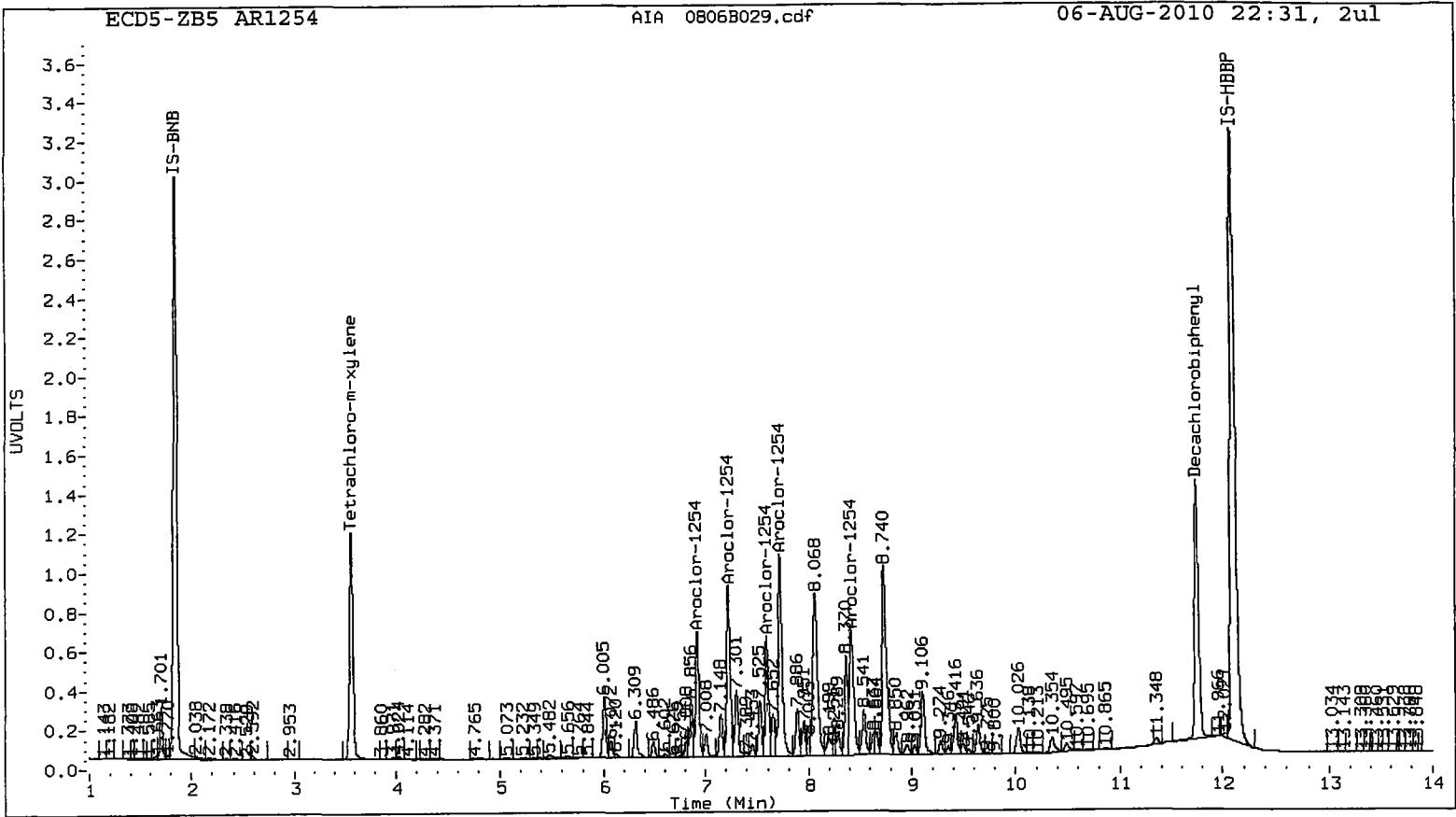
Col1 Total PCB = 0.3 ppm*

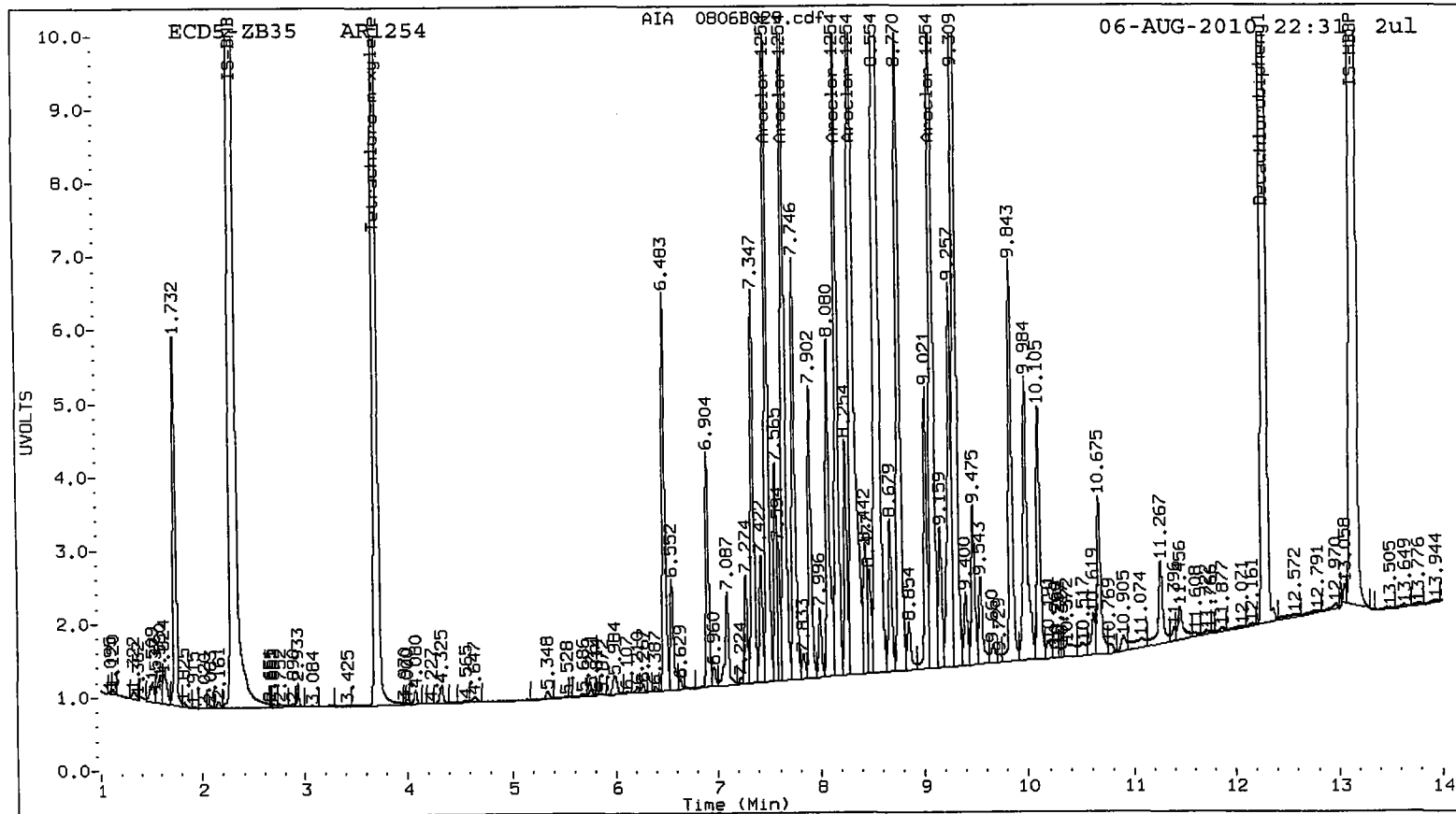
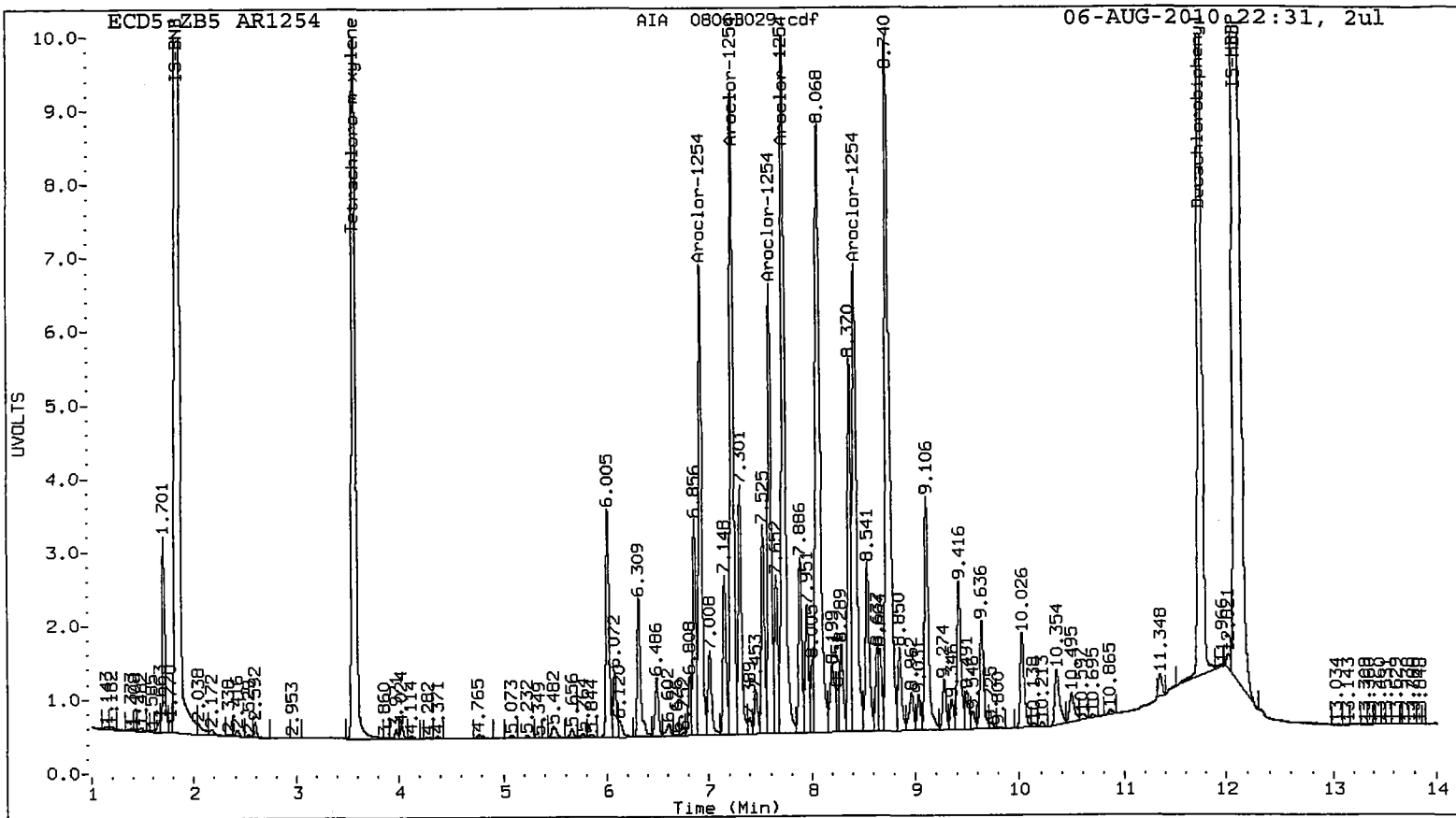
Total PCB Area Col2 (3.808 - 12.183) = 216883763

Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B030.d
Data file 2: 20100806.b/ical-2.b/0806B030.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 06-AUG-2010 22:50
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.570	0.000	14487021	3.707	-0.001	22111046	19.4	19.9	2.8	Tetrachloro-m-xylene
11.752	0.000	18844541	12.283	0.000	27339415	19.1	19.3	1.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	48.5	49.8
Decachlorobiphenyl	47.7	48.2

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	36623012	2.9
Hexabromobiphenyl	47117515	49019768	4.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	79106786	1.0
Hexabromobiphenyl	74720444	77942538	4.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	3.867	0.000	1852036	250.0	1	4.289	0.000	3026148	250.0
Aroclor-1221	2	4.022	0.000	1339281	250.0	2	4.522	0.000	1820857	250.0
Aroclor-1221	3	4.114	0.000	4293421	250.0	3	4.633	0.000	5687295	250.0
Aroclor-1221	NS	---			----	4	5.243	0.000	545644	250.0
Total Col1Ave (3 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				250.0	
Aroclor-1262	1	8.963	0.000	13869201	250.0	1	9.400	0.000	25353615	250.0
Aroclor-1262	2	9.272	0.000	11450534	250.0	2	9.846	0.000	20958180	250.0
Aroclor-1262	3	9.635	0.000	25129087	250.0	3	10.616	0.000	22864035	250.0
Aroclor-1262	4	10.138	0.000	12409200	250.0	4	11.266	0.000	8681171	250.0
Aroclor-1262	5	10.211	0.000	12475389	250.0	5	11.396	0.000	17489287	250.0
Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):				250.0	RPD = 0
Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):				250.0	RPD = 0

Total PCB Area Col1 (3.671 - 11.652) = 197799736

Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 321530880

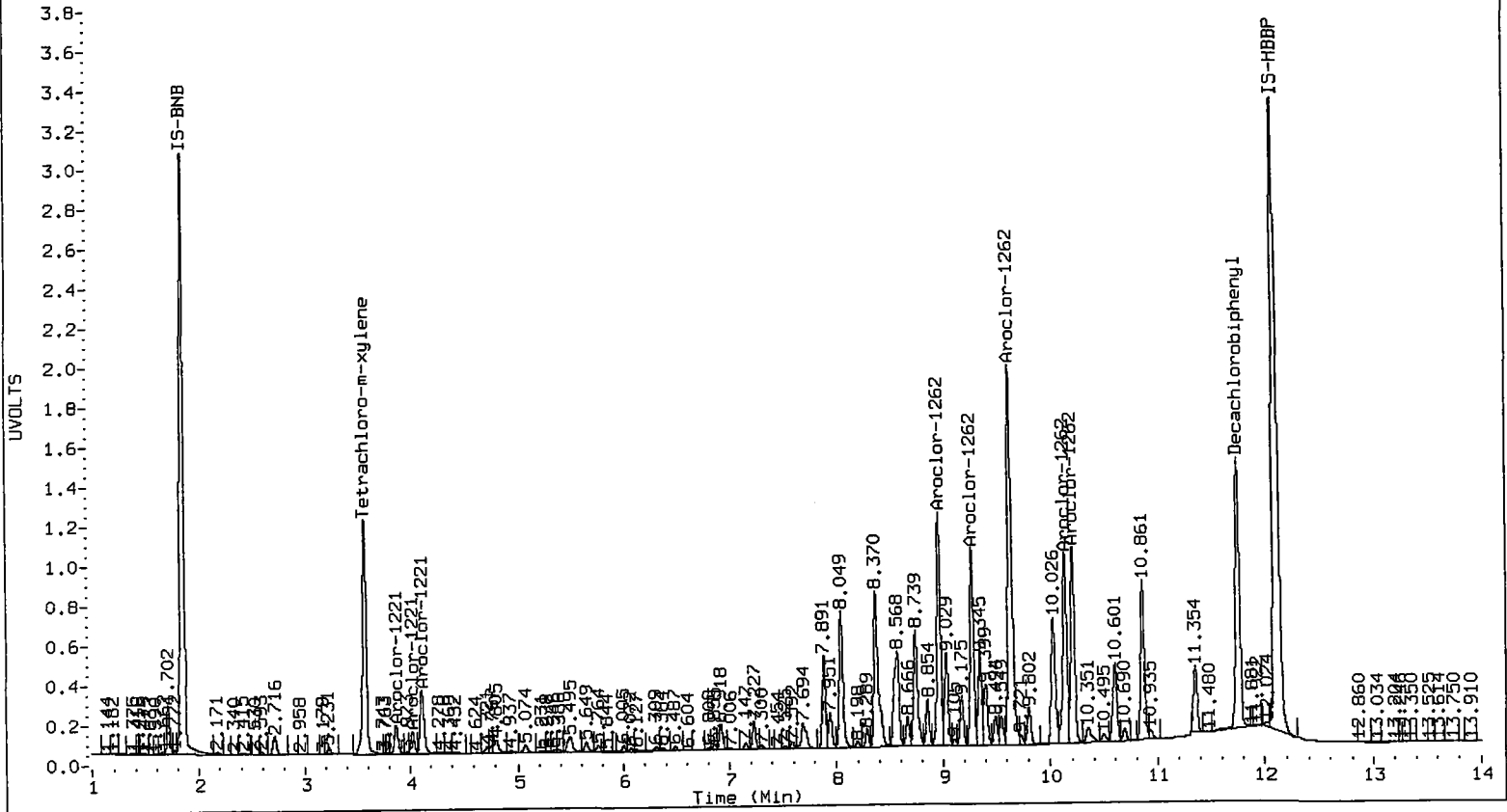
Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

ECD5-ZB5 AR2162

AIA 0806B030.cdf

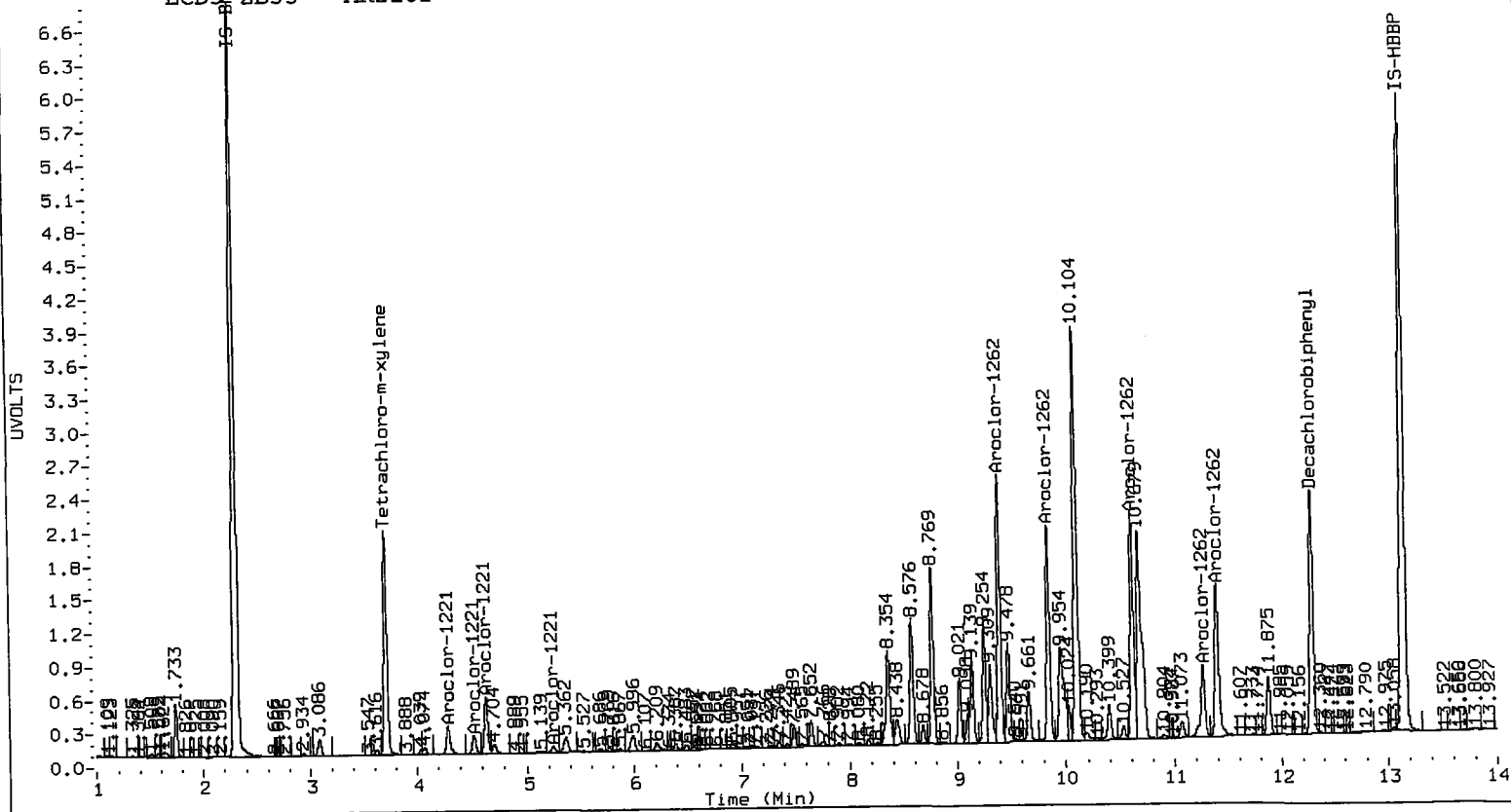
06-AUG-2010 22:50, 2ul

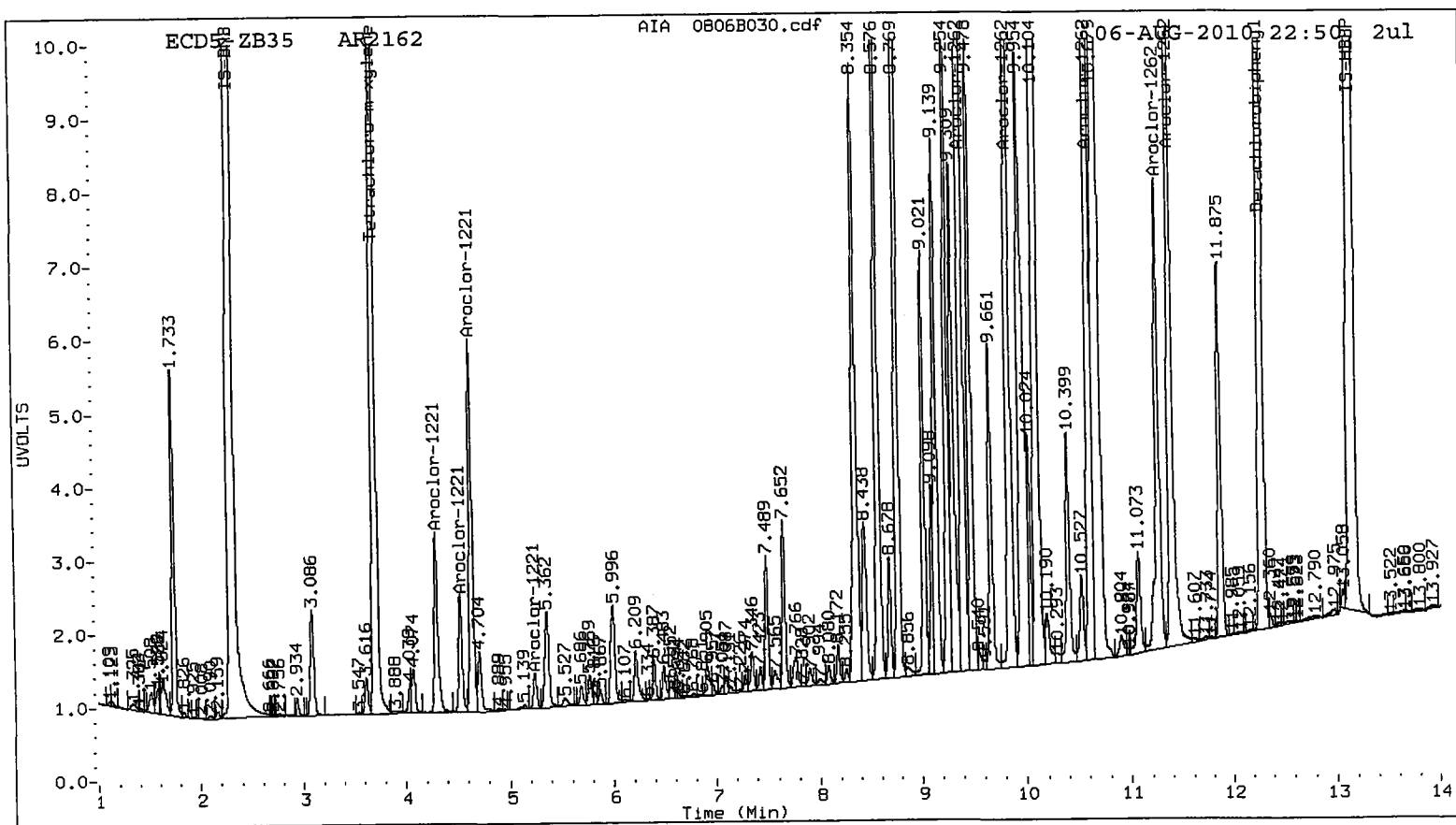
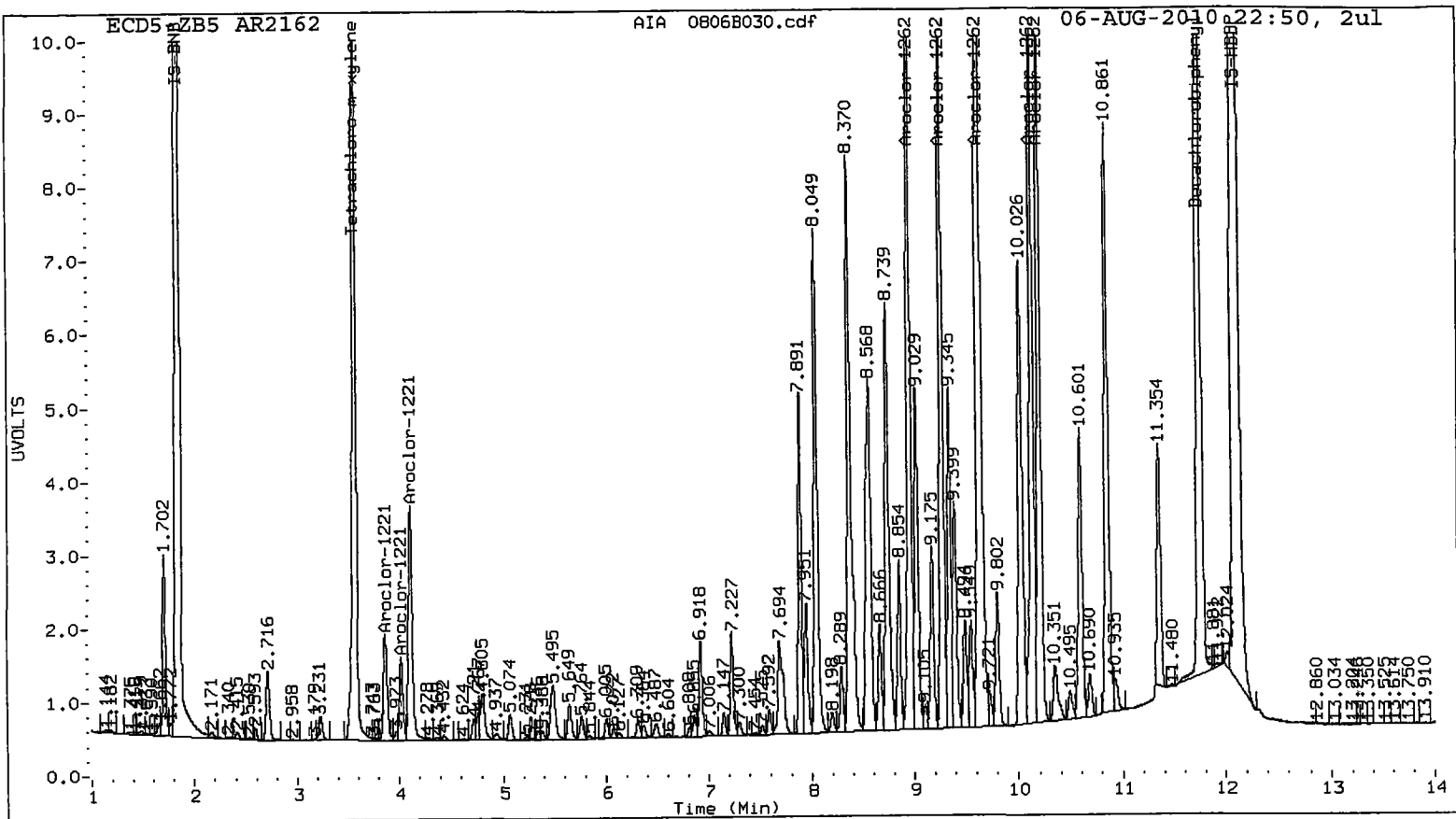


ECD5-ZB35 AR2162

AIA 0806B030.cdf

06-AUG-2010 22:50, 2ul





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B031.d
Data file 2: 20100806.b/ical-2.b/0806B031.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 06-AUG-2010 23:09
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	14533415	3.708	0.000	22212500	19.3	19.8	2.6	Tetrachloro-m-xylene
11.752	0.000	28756040	12.283	0.000	43605664	28.8	30.4	5.2	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	48.1	49.4
Decachlorobiphenyl	72.1	76.0

7/28/08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	36991230	3.9
Hexabromobiphenyl	47117515	49510025	5.1

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	80131218	2.3
Hexabromobiphenyl	74720444	78897126	5.6

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

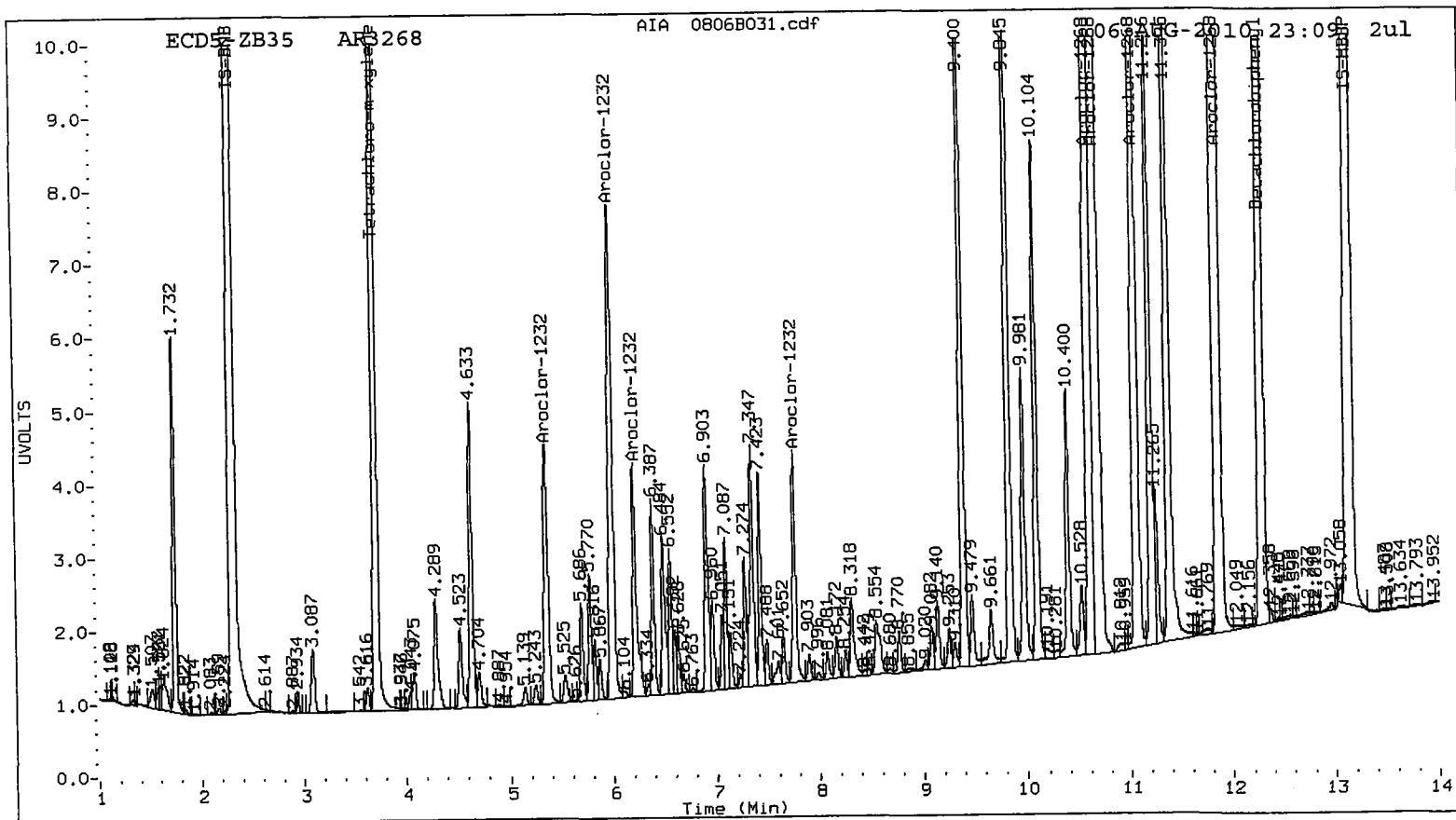
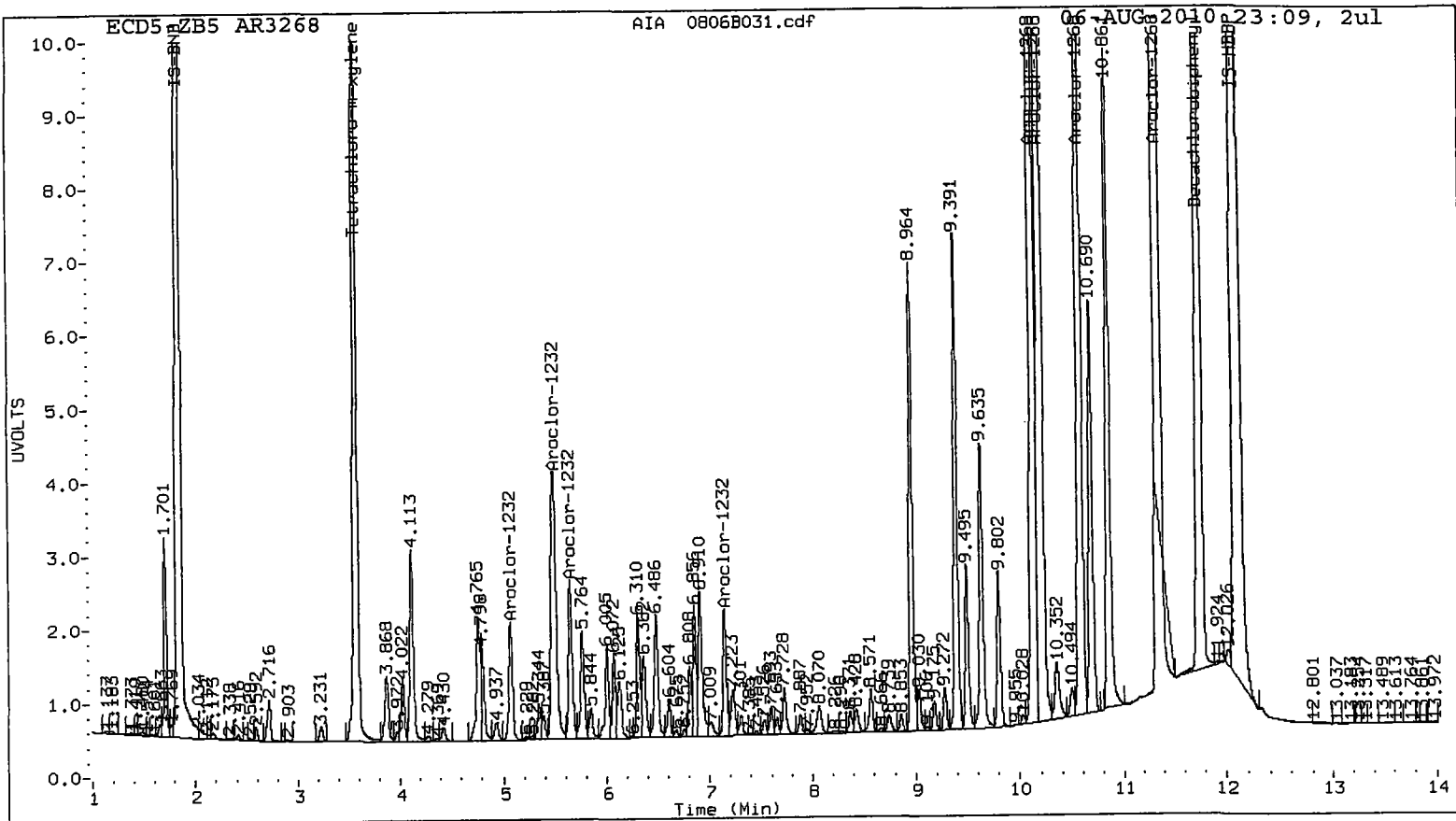
ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	5.073	0.000	1975053	250.0	1	5.351	0.000	5010459	250.0
Aroclor-1232	2	5.493	0.000	6387327	250.0	2	5.995	0.000	9957246	250.0
Aroclor-1232	3	5.649	0.000	2655499	250.0	3	6.209	0.000	3963425	250.0
Aroclor-1232	4	7.145	0.000	2025088	250.0	4	7.770	0.000	3640294	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

Aroclor-1268	1	10.139	0.000	30879210	250.0	1	10.617	0.000	54269922	250.0
Aroclor-1268	2	10.208	0.000	32289855	250.0	2	10.683	0.000	52011267	250.0
Aroclor-1268	3	10.586	0.000	23615220	250.0	3	11.073	0.000	38044531	250.0
Aroclor-1268	4	11.353	0.000	50123409	250.0	4	11.876	0.000	98202788	250.0
Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

Total PCB Area Col1 (3.671 - 11.652) = 232178387 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (3.808 - 12.183) = 398899079 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B032.d
Data file 2: 20100806.b/ical-2.b/0806B032.d
Method: /chem2/ecd5.i/20100806.b/PCBl.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 ICV
Client ID:
Injection Date: 06-AUG-2010 23:27
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col		RT	ZB35 Col		ZB5 on col	ZB35 on col	RPD	Compound/Flag
	Shift	Response		Shift	Response				
3.571	0.000	14738885	3.708	-0.001	22406741	20.3	20.3	0.2	Tetrachloro-m-xylene
11.753	0.001	19036022	12.283	0.000	27725095	19.6	20.1	2.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	50.9	50.7
Decachlorobiphenyl	49.0	50.2

m 08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	35509859	-0.2
Hexabromobiphenyl	47117515	48273989	2.5

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	78722582	0.5
Hexabromobiphenyl	74720444	75876177	1.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.074	0.001	4306358	251.0	1	5.348	-0.002	10066702	244.2	
Aroclor-1016	2	5.492	-0.001	14050653	250.4	2	5.995	-0.001	21887200	246.5	
Aroclor-1016	3	5.649	0.000	5805598	249.1	3	6.208	-0.001	8798054	246.7	
Aroclor-1016	4	5.764	0.000	4020347	250.4	4	7.488	0.000	4685244	282.8	
Total CollAve (4 peaks):					250.2	Total Col2Ave (4 peaks):					255.0 RPD = 2
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):					245.8 RPD = 2
Aroclor-1221	1	3.866	-0.001	593726	82.7	1	4.289	0.000	1080298	89.7	
Aroclor-1221	2	4.023	0.001	769366	148.1	2	4.522	0.001	915826	126.4	
Aroclor-1221	3	4.113	-0.001	3011457	180.8	3	4.633	0.000	4290469	189.5	
Aroclor-1221	NS	---	---	---	---	4	5.244	0.002	89202	41.1	
Total CollAve (3 peaks):					137.2	Total Col2Ave (4 peaks):					111.7 RPD = 21
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):					85.7
Aroclor-1232	1	5.074	0.000	4306358	567.8	1	5.348	-0.003	10066702	511.3	
Aroclor-1232	2	5.492	-0.001	14050653	572.9	2	5.995	0.000	21887200	559.4	
Aroclor-1232	3	5.649	0.000	5805598	569.4	3	6.208	-0.001	8798054	564.9	
Aroclor-1232	4	7.148	0.003	685906	88.2	4	7.768	-0.002	534160	37.3	
Total CollAve (4 peaks):					449.6	Total Col2Ave (4 peaks):					418.2 RPD = 7
Corrected Ave (3 peaks):					408.5	Corrected Ave (3 peaks):					369.3 RPD = 10
Aroclor-1242	1	5.074	0.000	4306358	327.3	1	5.348	-0.001	10066702	321.5	
Aroclor-1242	2	5.492	-0.002	14050653	327.2	2	5.995	-0.001	21887200	326.2	
Aroclor-1242	3	5.649	-0.001	5805598	325.9	3	6.208	-0.001	8798054	325.1	
Aroclor-1242	4	7.148	0.002	685906	44.5	4	7.768	-0.002	534160	18.7	
Total CollAve (4 peaks):					256.2	Total Col2Ave (4 peaks):					247.9 RPD = 3
Corrected Ave (3 peaks):					232.5	Corrected Ave (3 peaks):					221.8 RPD = 5
Aroclor-1248	1	6.005	0.000	3670859	192.5	1	6.483	0.000	6304326	198.3	
Aroclor-1248	2	6.310	0.000	4177930	190.8	2	6.903	0.000	7435659	201.5	
Aroclor-1248	3	6.855	0.000	753379	29.2	3	7.422	-0.001	896782	24.4	
Aroclor-1248	4	7.148	0.003	685906	27.9	4	7.768	-0.001	534160	11.2	
Total CollAve (4 peaks):					110.1	Total Col2Ave (4 peaks):					108.8 RPD = 1
Corrected Ave (3 peaks):					82.6	Corrected Ave (3 peaks):					78.0 RPD = 6
Aroclor-1254	1	6.919	0.000	3731799	129.2	1	7.488	0.000	4685244	125.6	
Aroclor-1254	2	7.227	0.001	4055429	100.5	2	7.651	0.000	5673227	110.9	
Aroclor-1254	3	7.592	0.000	836907	30.9	3	8.171	-0.001	1206695	31.4	
Aroclor-1254	4	7.725	-0.001	2493711	49.6	4	8.354	0.035	12952555	153.4	
Aroclor-1254	5	8.410	-0.013	4087039	115.1	5	9.098	0.013	5778551	112.3	
Total CollAve (5 peaks):					85.1	Total Col2Ave (5 peaks):					106.7 RPD = 23
Corrected Ave (4 peaks):					74.0	Corrected Ave (4 peaks):					95.0 RPD = 25
Aroclor-1260	1	8.963	0.000	8539324	209.8	1	9.400	0.000	14934051	201.1	
Aroclor-1260	2	9.273	0.001	8348723	215.9	2	10.104	-0.001	35752480	212.2	
Aroclor-1260	3	9.636	0.001	20827309	214.9	3	10.677	-0.001	22983548	206.2	
Aroclor-1260	4	10.027	0.000	11269034	234.3	4	11.396	0.001	9783565	207.0	
Aroclor-1260	5	10.211	0.001	5620349	203.5	NS	---	---	---	---	
Total CollAve (5 peaks):					215.7	Total Col2Ave (4 peaks):					206.6 RPD = 4
Corrected Ave (4 peaks):					211.0	Corrected Ave (3 peaks):					204.8 RPD = 3
Aroclor-1262	1	8.963	0.000	8539324	156.3	1	9.400	0.000	14934051	151.3	
Aroclor-1262	2	9.273	0.000	8348723	185.1	2	9.845	-0.001	15025843	184.1	
Aroclor-1262	3	9.636	0.001	20827309	210.4	3	10.618	0.002	10579026	118.8	
Aroclor-1262	4	10.139	0.001	4877660	99.8	4	11.267	0.000	5244745	155.2	
Aroclor-1262	5	10.211	0.000	5620349	114.4	5	11.396	0.000	9783565	143.7	
Total CollAve (5 peaks):					153.2	Total Col2Ave (5 peaks):					150.6 RPD = 2
Corrected Ave (4 peaks):					138.9	Corrected Ave (4 peaks):					142.2 RPD = 2
Aroclor-1268	1	10.139	0.000	4877660	40.5	1	10.618	0.000	10579026	50.7	
Aroclor-1268	2	10.211	0.002	5620349	44.6	2	10.677	-0.006	22983548	114.9	
Aroclor-1268	3	10.603	0.017	2760800	30.0	3	11.073	0.000	886888	6.1	
Aroclor-1268	4	11.353	0.000	1818865	9.3	4	11.875	-0.001	2451967	6.5	
Total CollAve (4 peaks):					31.1	Total Col2Ave (4 peaks):					44.5 RPD = 35
Corrected Ave (3 peaks):					26.6	Corrected Ave (3 peaks):					21.1 RPD = 23

Total PCB Area Col1 (3.671 - 11.652) = 239393327

Col1 Total PCB = 0.5 ppm*

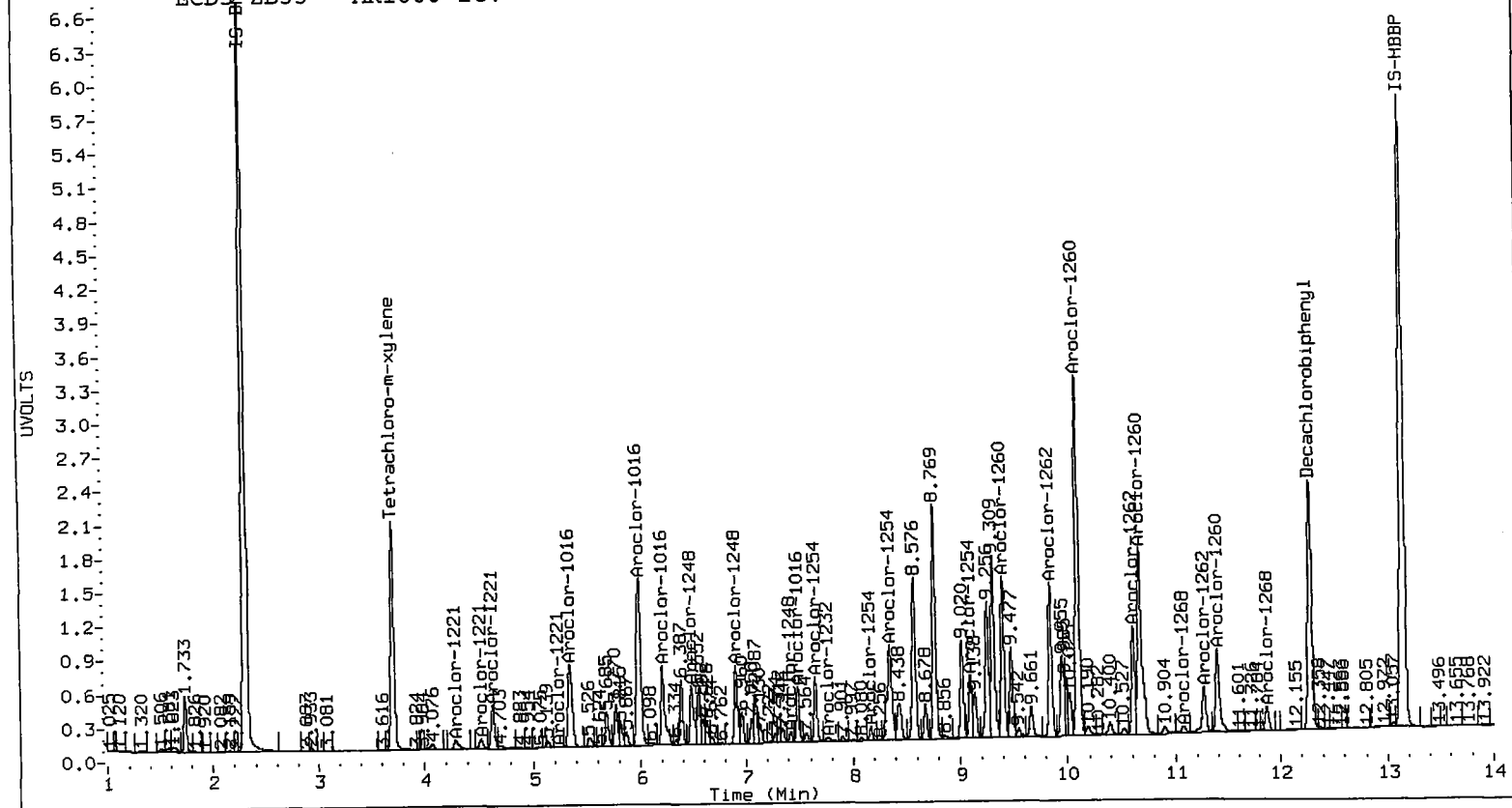
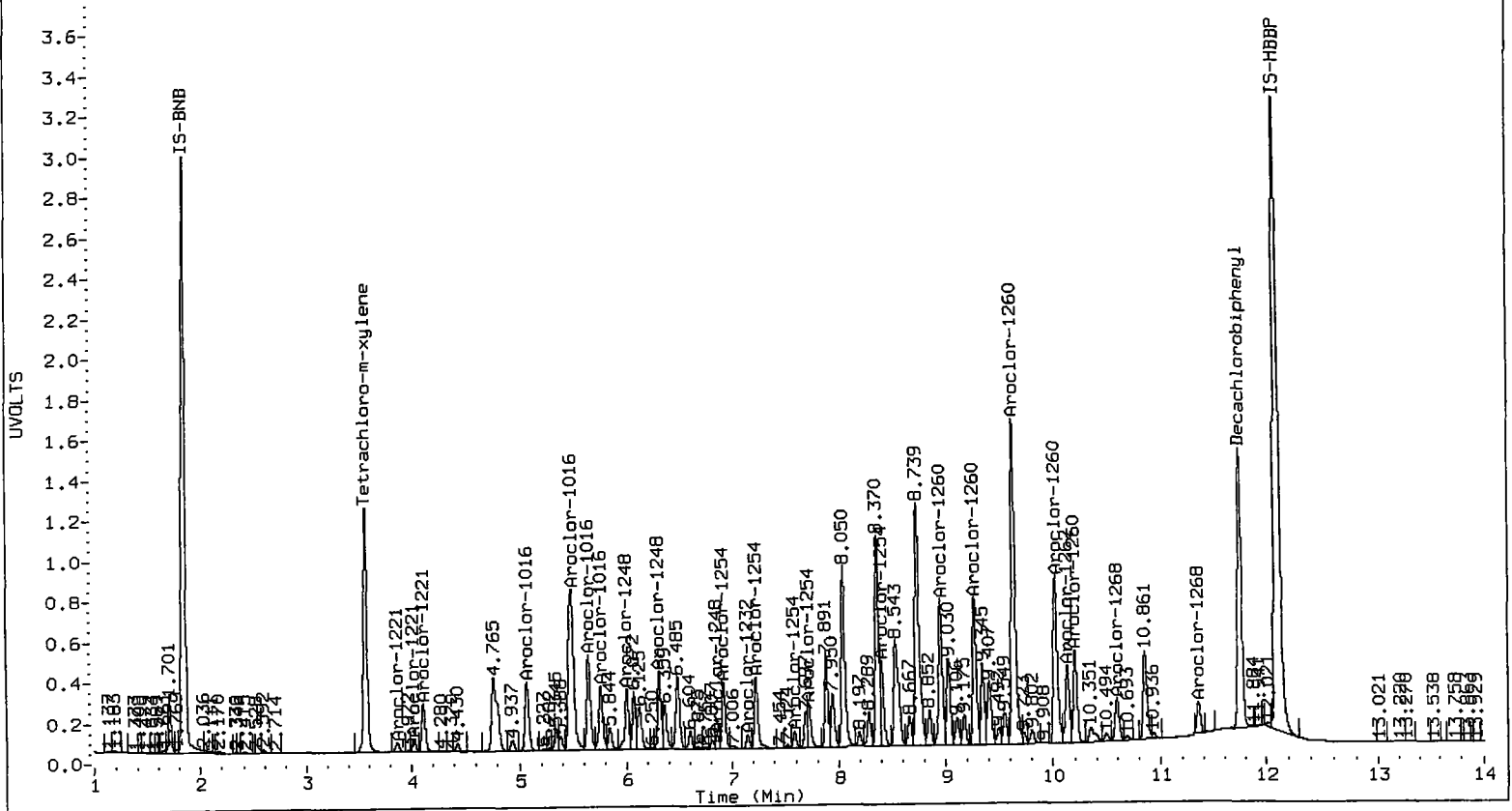
Total PCB Area Col2 (3.808 - 12.183) = 376514171

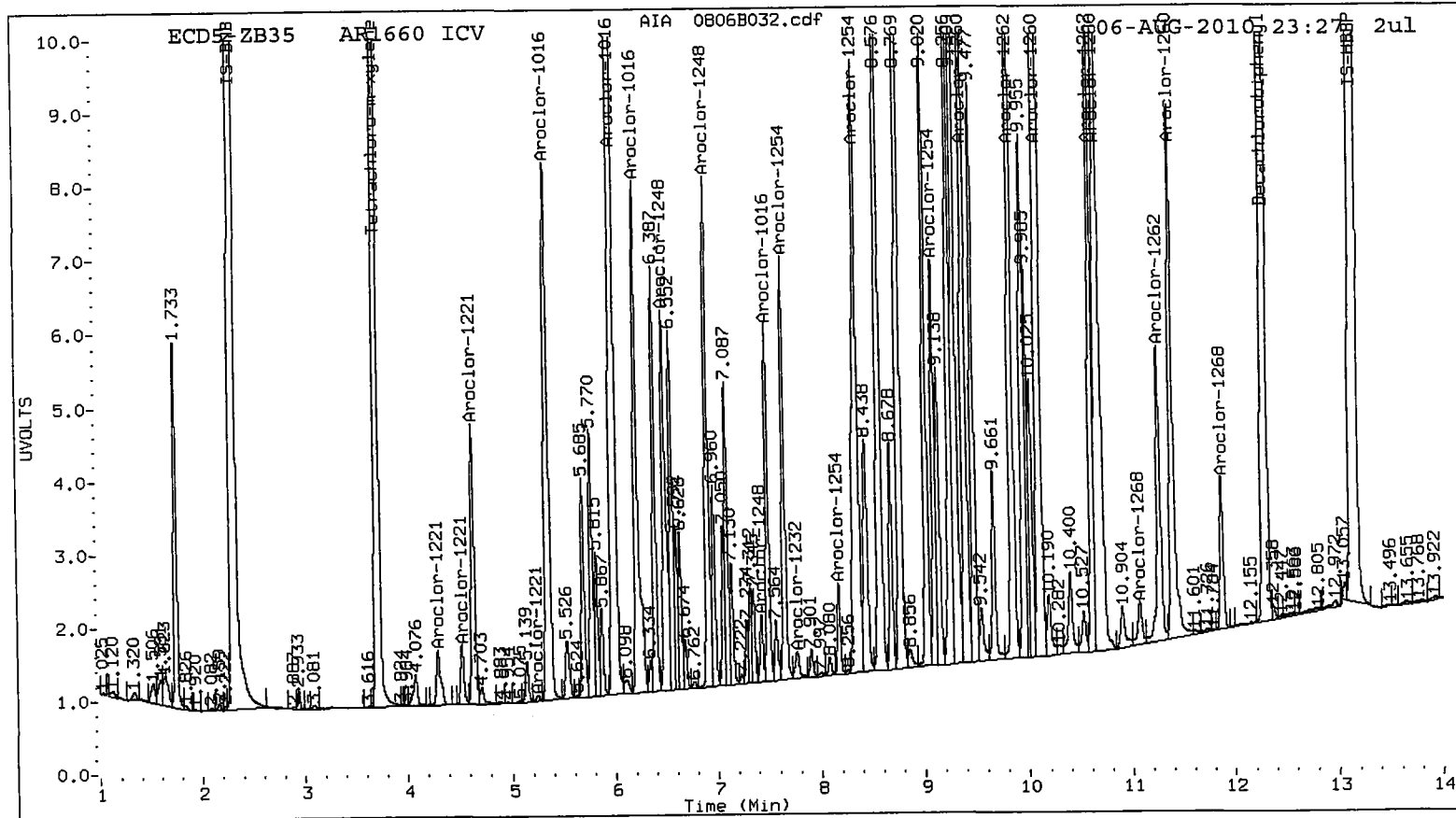
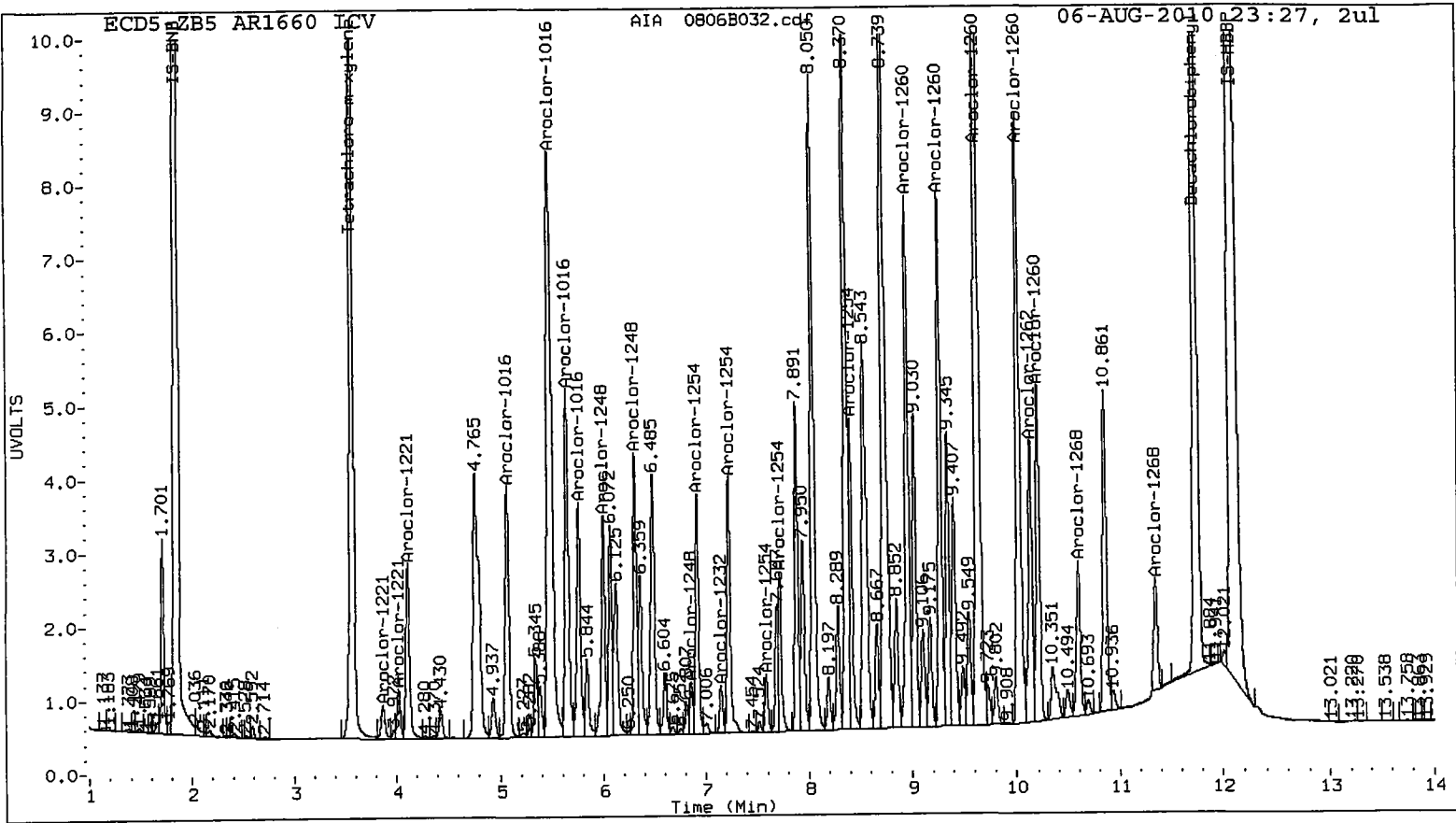
Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF 71 : 00994





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B033.d
Data file 2: 20100806.b/ical-2.b/0806B033.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242 ICV
Client ID:
Injection Date: 06-AUG-2010 23:46
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col		RT	ZB35 Col		ZB5 on col	ZB35 on col	RPD	Compound/Flag
	Shift	Response		Shift	Response				
3.571	0.000	14672290	3.708	0.000	22555428	20.5	20.8	1.3	Tetrachloro-m-xylene
11.754	0.001	18990472	12.283	0.000	27499158	19.8	20.2	2.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	51.3	52.0
Decachlorobiphenyl	49.4	50.5

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	35593381	35036961	-1.6
Hexabromobiphenyl	47117515	47717699	1.3

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	78348017	77335565	-1.3
Hexabromobiphenyl	74720444	74784196	0.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.073	0.000	3422023	202.1	1	5.348	-0.002	8004326	197.6
Aroclor-1016	2	5.493	0.000	11147790	201.4	2	5.995	-0.001	17407914	199.5
Aroclor-1016	3	5.649	0.000	4622917	201.0	3	6.208	-0.001	6976064	199.1
Aroclor-1016	4	5.764	0.000	3224477	203.6	4	7.488	-0.001	1319221	81.1
Total CollAve (4 peaks):				202.0		Total Col2Ave (4 peaks):				169.3 RPD = 18
Corrected Ave (3 peaks):				201.5		Corrected Ave (3 peaks):				159.3 RPD = 23
Aroclor-1221	1	3.866	-0.001	519093	73.2	1	4.289	0.000	975936	82.5
Aroclor-1221	2	4.022	0.001	687407	134.1	2	4.521	0.000	777584	109.2
Aroclor-1221	3	4.113	-0.001	2575186	156.7	3	4.632	-0.001	3660664	164.6
Aroclor-1221	NS	---	---	---	---	4	5.245	0.002	84004	39.4
Total CollAve (3 peaks):				121.4		Total Col2Ave (4 peaks):				98.9 RPD = 20
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				77.0
Aroclor-1232	1	5.073	0.000	3422023	457.3	1	5.348	-0.002	8004326	413.8
Aroclor-1232	2	5.493	0.000	11147790	460.7	2	5.995	0.000	17407914	452.9
Aroclor-1232	3	5.649	0.000	4622917	459.5	3	6.208	0.000	6976064	455.9
Aroclor-1232	4	7.145	0.000	4187795	545.8	4	7.769	-0.001	7498417	533.6
Total CollAve (4 peaks):				480.8		Total Col2Ave (4 peaks):				464.0 RPD = 4
Corrected Ave (3 peaks):				459.2		Corrected Ave (3 peaks):				440.9 RPD = 4
Aroclor-1242	1	5.073	0.000	3422023	263.6	1	5.348	-0.001	8004326	260.2
Aroclor-1242	2	5.493	-0.001	11147790	263.1	2	5.995	0.000	17407914	264.1
Aroclor-1242	3	5.649	-0.001	4622917	263.0	3	6.208	-0.001	6976064	262.4
Aroclor-1242	4	7.145	-0.001	4187795	275.5	4	7.769	-0.001	7498417	267.7
Total CollAve (4 peaks):				266.3		Total Col2Ave (4 peaks):				263.6 RPD = 1
Corrected Ave (3 peaks):				263.2		Corrected Ave (3 peaks):				262.2 RPD = 0
Aroclor-1248	1	6.005	0.000	2814578	149.6	1	6.483	0.000	4813855	154.1
Aroclor-1248	2	6.310	0.001	3435709	159.0	2	6.904	0.001	6897801	190.3
Aroclor-1248	3	6.855	0.000	3865082	151.8	3	7.423	0.000	6192884	171.3
Aroclor-1248	4	7.145	0.000	4187795	172.7	4	7.769	0.000	7498417	160.5
Total CollAve (4 peaks):				158.3		Total Col2Ave (4 peaks):				169.0 RPD = 7
Corrected Ave (3 peaks):				153.5		Corrected Ave (3 peaks):				162.0 RPD = 5
Aroclor-1254	1	6.810	-0.009	5156575	180.9	1	7.488	-0.001	1319221	36.0
Aroclor-1254	2	7.223	-0.003	1776045	44.6	2	7.652	0.000	1418279	28.2
Aroclor-1254	3	7.593	0.000	1023925	38.3	3	8.171	-0.001	1507925	39.9
Aroclor-1254	4	7.727	0.001	1772394	35.7	4	8.318	-0.002	2658640	32.0
Aroclor-1254	5	8.430	0.007	1170276	33.4	5	9.080	-0.005	1908049	37.7
Total CollAve (5 peaks):				66.6		Total Col2Ave (5 peaks):				34.8 RPD = 63*
Corrected Ave (4 peaks):				38.0		Corrected Ave (4 peaks):				33.5 RPD = 13
Aroclor-1260	1	8.963	0.001	52416	1.3	1	9.402	0.003	221644	3.0
Aroclor-1260	2	9.275	0.003	36133	0.9	2	10.105	0.000	382116	2.3
Aroclor-1260	3	9.638	0.003	113150	1.2	3	10.679	0.001	431021	3.9
Aroclor-1260	4	10.028	0.002	39649	0.8	4	11.396	0.002	158384	3.4
Aroclor-1260	5	10.212	0.002	44766	1.6	NS	---	---	---	---
Total CollAve (5 peaks):				1.2		Total Col2Ave (4 peaks):				3.2 RPD = 91*
Corrected Ave (4 peaks):				1.1		Corrected Ave (3 peaks):				2.9 RPD = 93*
Aroclor-1262	1	8.963	0.001	52416	1.0	1	9.402	0.003	221644	2.3
Aroclor-1262	2	9.275	0.002	36133	0.8	2	9.845	-0.001	545429	6.8
Aroclor-1262	3	9.638	0.003	113150	1.2	3	10.616	0.000	364351	4.2
Aroclor-1262	4	10.142	0.004	40924	0.8	4	11.267	0.001	1683054	50.5
Aroclor-1262	5	10.212	0.001	44766	0.9	5	11.396	0.000	158384	2.4
Total CollAve (5 peaks):				0.9		Total Col2Ave (5 peaks):				13.2 RPD = 173*
Corrected Ave (4 peaks):				0.9		Corrected Ave (4 peaks):				3.9 RPD = 126*
Aroclor-1268	1	10.142	0.003	40924	0.3	1	10.616	-0.001	364351	1.8
Aroclor-1268	2	10.212	0.004	44766	0.4	2	10.679	-0.004	431021	2.2
Aroclor-1268	3	10.595	0.008	97467	1.1	3	11.075	0.002	491297	3.4
Aroclor-1268	4	11.348	-0.005	343326	1.8	4	11.879	0.003	71034	0.2
Total CollAve (4 peaks):				0.9		Total Col2Ave (4 peaks):				1.9 RPD = 72*
Corrected Ave (3 peaks):				0.6		Corrected Ave (3 peaks):				1.4 RPD = 80*

Total PCB Area Col1 (3.671 - 11.652) = 84734134

Col1 Total PCB = 0.2 ppm*

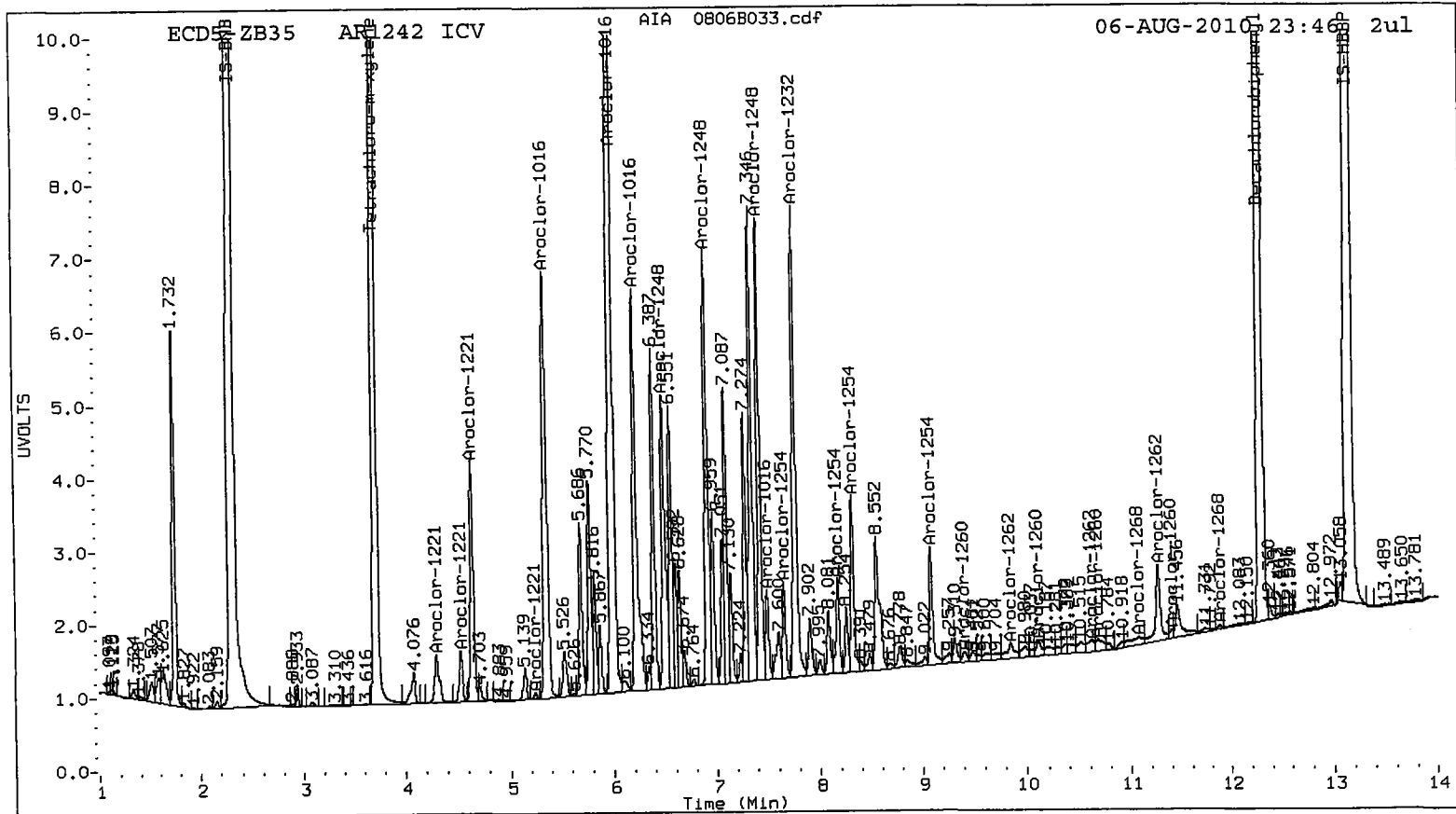
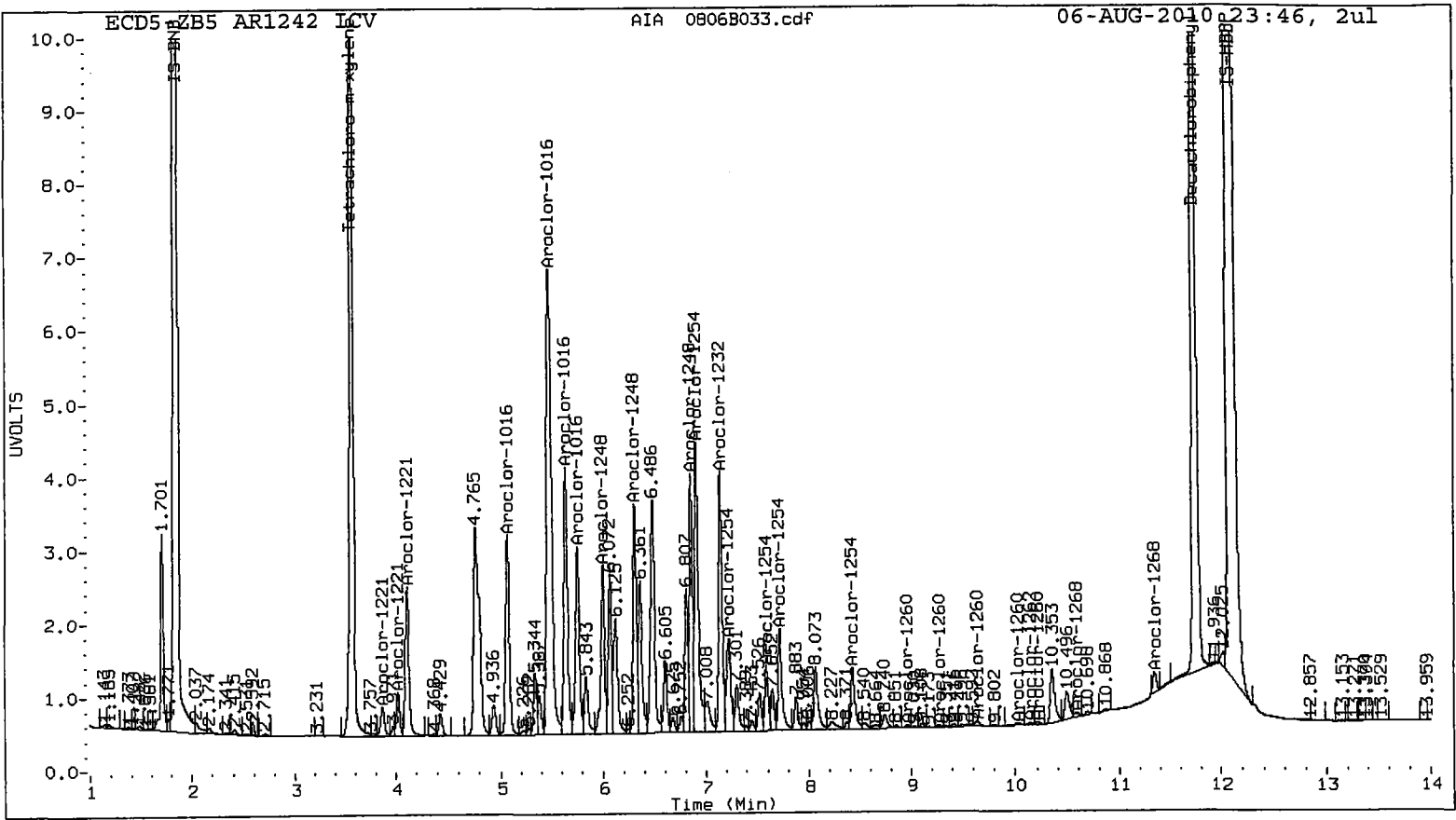
Total PCB Area Col2 (3.808 - 12.183) = 132765550

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 00999



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B034.d
Data file 2: 20100806.b/ical-2.b/0806B034.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248 ICV
Client ID:
Injection Date: 07-AUG-2010 00:05
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.571	0.000 13562221	3.708 0.000 21244163	18.8	19.2	2.3	Tetrachloro-m-xylene
11.754	0.002 17812125	12.284 0.001 25922645	18.4	18.9	2.6	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	47.0	48.1
Decachlorobiphenyl	46.1	47.3

2008/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	35360490	-0.7
Hexabromobiphenyl	47117515	47947336	1.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	78770500	0.5
Hexabromobiphenyl	74720444	75254592	0.7

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.073	0.000	1496889	87.6	1	5.347	-0.003	3849020	93.3
Aroclor-1016	2	5.488	-0.005	7252516	129.8	2	5.989	-0.007	11259694	126.7
Aroclor-1016	3	5.652	0.003	2613587	112.6	3	6.209	0.000	2713039	76.0
Aroclor-1016	4	5.764	0.001	1796428	112.4	4	7.488	-0.001	3627879	218.9
Total CollAve (4 peaks):				110.6	Total Col2Ave (4 peaks):				128.7	RPD = 15
Corrected Ave (3 peaks):				104.2	Corrected Ave (3 peaks):				98.7	RPD = 5
Aroclor-1221	1	3.867	0.000	65075	9.1	1	4.327	0.038	296885	24.6
Aroclor-1221	2	4.025	0.003	212983	41.2	2	4.521	-0.001	71256	9.8
Aroclor-1221	3	4.112	-0.001	293929	17.7	3	4.634	0.001	445642	19.7
Aroclor-1221	NS	---	---	---	---	4	5.347	0.104	3849020	1771.1
Total CollAve (3 peaks):				22.7	Total Col2Ave (4 peaks):				456.3	RPD = 181*
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				18.0	
Aroclor-1232	1	5.073	0.000	1496889	198.2	1	5.347	-0.004	3849020	195.4
Aroclor-1232	2	5.488	-0.005	7252516	297.0	2	5.989	-0.006	11259694	287.6
Aroclor-1232	3	5.652	0.003	2613587	257.4	3	6.209	0.000	2713039	174.1
Aroclor-1232	4	7.145	0.000	6641518	857.7	4	7.769	-0.001	12801899	894.4
Total CollAve (4 peaks):				402.6	Total Col2Ave (4 peaks):				387.9	RPD = 4
Corrected Ave (3 peaks):				250.9	Corrected Ave (3 peaks):				219.0	RPD = 14
Aroclor-1242	1	5.073	-0.001	1496889	114.2	1	5.347	-0.002	3849020	122.9
Aroclor-1242	2	5.488	-0.006	7252516	169.6	2	5.989	-0.007	11259694	167.7
Aroclor-1242	3	5.652	0.002	2613587	147.4	3	6.209	0.000	2713039	100.2
Aroclor-1242	4	7.145	0.000	6641518	433.0	4	7.769	-0.001	12801899	448.6
Total CollAve (4 peaks):				216.0	Total Col2Ave (4 peaks):				209.8	RPD = 3
Corrected Ave (3 peaks):				143.7	Corrected Ave (3 peaks):				130.3	RPD = 10
Aroclor-1248	1	6.005	0.001	4969001	261.7	1	6.484	0.001	8317253	261.4
Aroclor-1248	2	6.310	0.000	5752536	263.8	2	6.904	0.001	9567610	259.1
Aroclor-1248	3	6.856	0.001	6869955	267.3	3	7.423	0.000	9932620	269.8
Aroclor-1248	4	7.145	0.000	6641518	271.5	4	7.769	0.000	12801899	268.9
Total CollAve (4 peaks):				266.1	Total Col2Ave (4 peaks):				264.8	RPD = 0
Corrected Ave (3 peaks):				264.3	Corrected Ave (3 peaks):				263.2	RPD = 0
Aroclor-1254	1	6.911	-0.008	8946127	311.1	1	7.488	0.000	3627879	97.2
Aroclor-1254	2	7.223	-0.003	4445117	110.7	2	7.652	0.001	4034912	78.8
Aroclor-1254	3	7.593	0.001	2858195	105.8	3	8.171	0.000	4132914	107.4
Aroclor-1254	4	7.727	0.001	4730398	94.5	4	8.319	-0.001	6882445	81.4
Aroclor-1254	5	8.429	0.006	3333616	94.3	5	9.081	-0.004	4921629	95.6
Total CollAve (5 peaks):				143.3	Total Col2Ave (5 peaks):				92.1	RPD = 44*
Corrected Ave (4 peaks):				101.3	Corrected Ave (4 peaks):				88.3	RPD = 14
Aroclor-1260	1	8.962	0.000	78241	1.9	1	9.402	0.002	227734	3.1
Aroclor-1260	2	9.275	0.003	54547	1.4	2	10.107	0.002	519320	3.1
Aroclor-1260	3	9.638	0.003	175157	1.8	3	10.678	0.001	446512	4.0
Aroclor-1260	4	10.029	0.002	100608	2.1	4	11.395	0.000	164694	3.5
Aroclor-1260	5	10.212	0.002	39085	1.4	NS	---	---	---	---
Total CollAve (5 peaks):				1.7	Total Col2Ave (4 peaks):				3.4	RPD = 66*
Corrected Ave (4 peaks):				1.6	Corrected Ave (3 peaks):				3.2	RPD = 65*
Aroclor-1262	1	8.962	0.000	78241	1.4	1	9.402	0.002	227734	2.3
Aroclor-1262	2	9.275	0.003	54547	1.2	2	9.845	-0.001	795931	9.8
Aroclor-1262	3	9.638	0.003	175157	1.8	3	10.619	0.003	358776	4.1
Aroclor-1262	4	10.140	0.002	34769	0.7	4	11.268	0.001	1675408	50.0
Aroclor-1262	5	10.212	0.001	39085	0.8	5	11.395	-0.001	164694	2.4
Total CollAve (5 peaks):				1.2	Total Col2Ave (5 peaks):				13.7	RPD = 168*
Corrected Ave (4 peaks):				1.0	Corrected Ave (4 peaks):				4.7	RPD = 127*
Aroclor-1268	1	10.140	0.002	34769	0.3	1	10.619	0.002	358776	1.7
Aroclor-1268	2	10.212	0.004	39085	0.3	2	10.678	-0.004	446512	2.3
Aroclor-1268	3	10.594	0.008	93831	1.0	3	11.079	0.006	302267	2.1
Aroclor-1268	4	11.350	-0.004	342570	1.8	4	11.878	0.002	58968	0.2
Total CollAve (4 peaks):				0.8	Total Col2Ave (4 peaks):				1.6	RPD = 59*
Corrected Ave (3 peaks):				0.5	Corrected Ave (3 peaks):				1.3	RPD = 84*

Total PCB Area Col1 (3.671 - 11.652) = 109014687

Col1 Total PCB = 0.2 ppm*

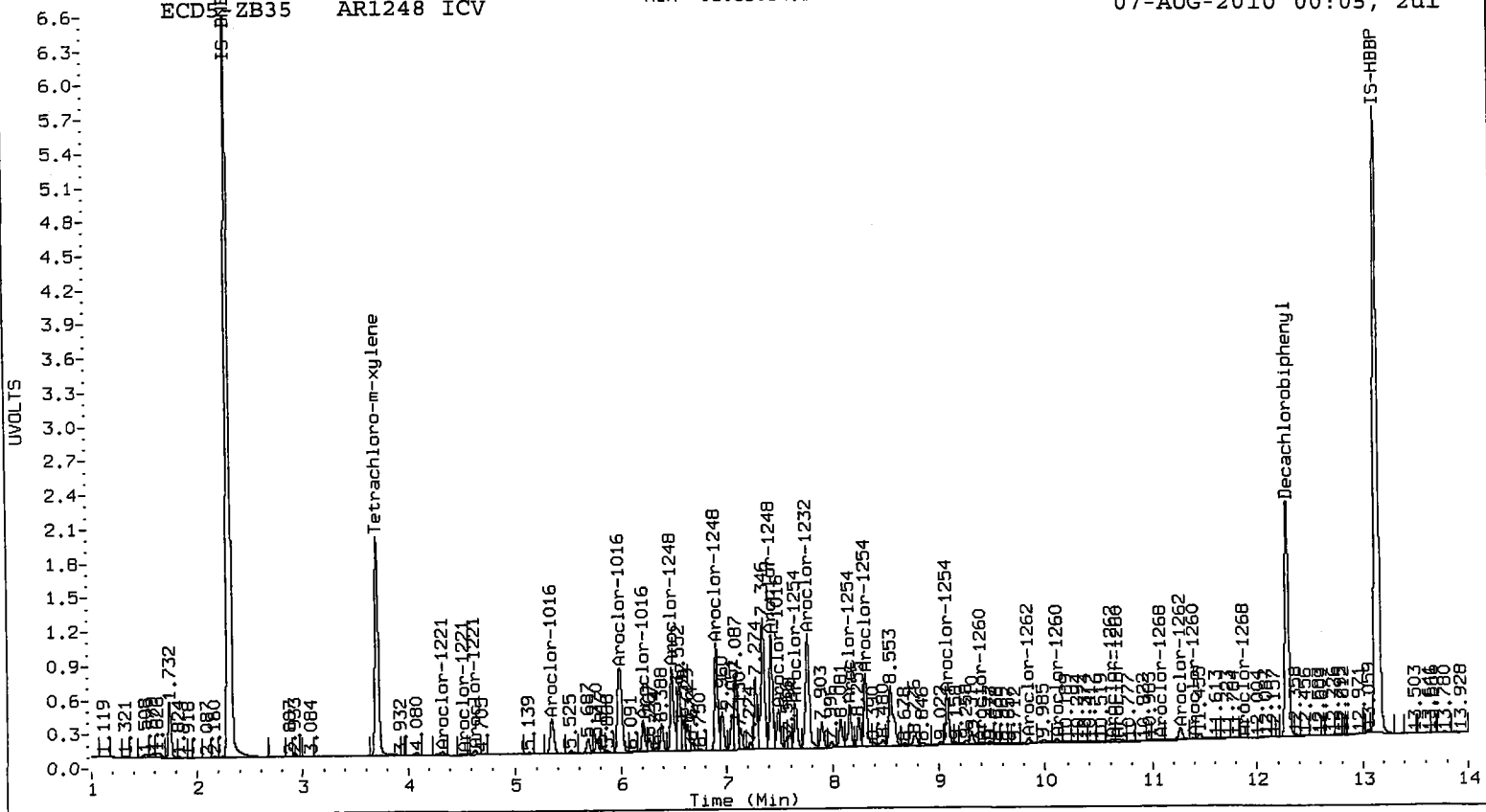
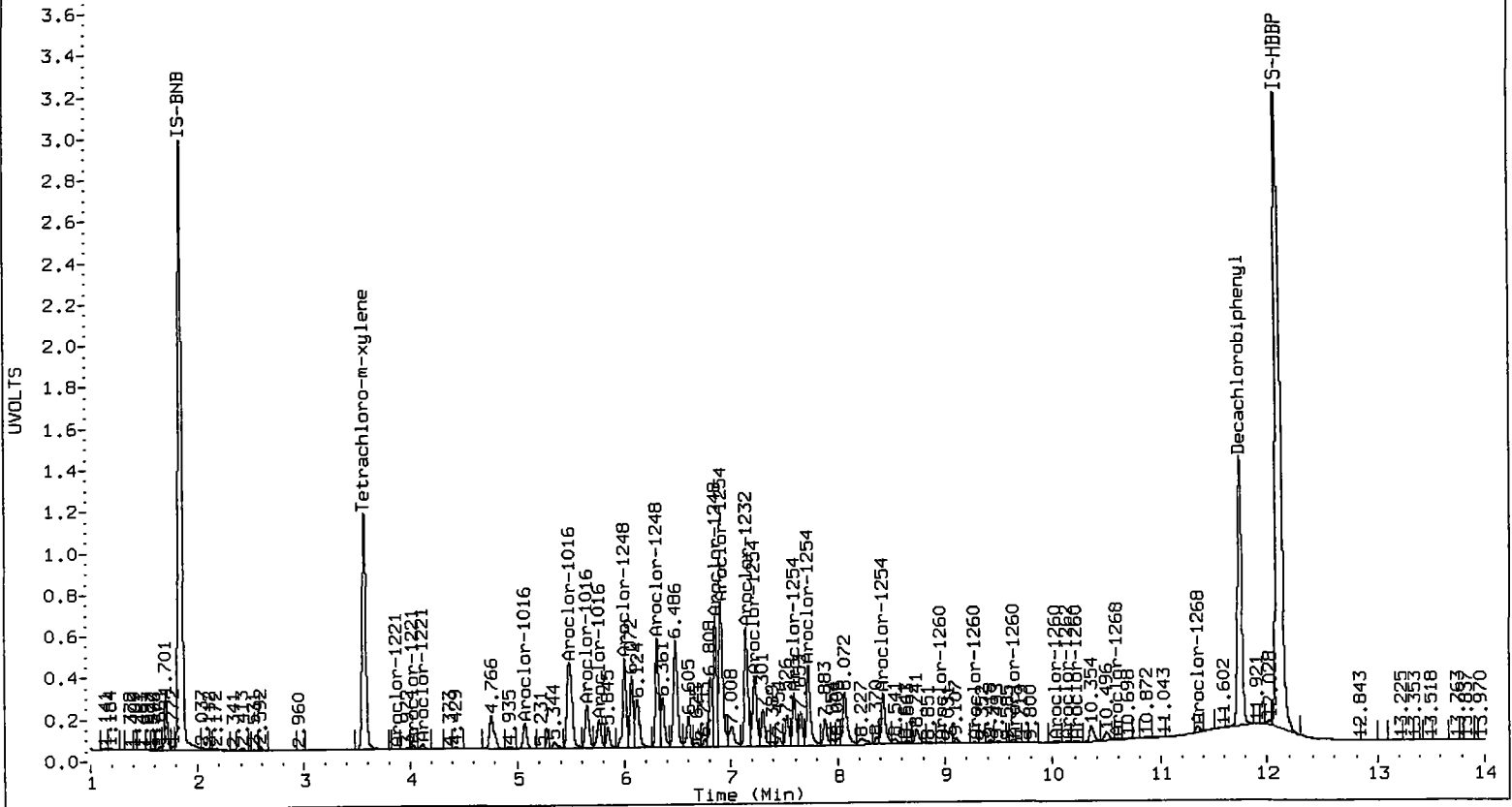
Total PCB Area Col2 (3.808 - 12.183) = 167951218

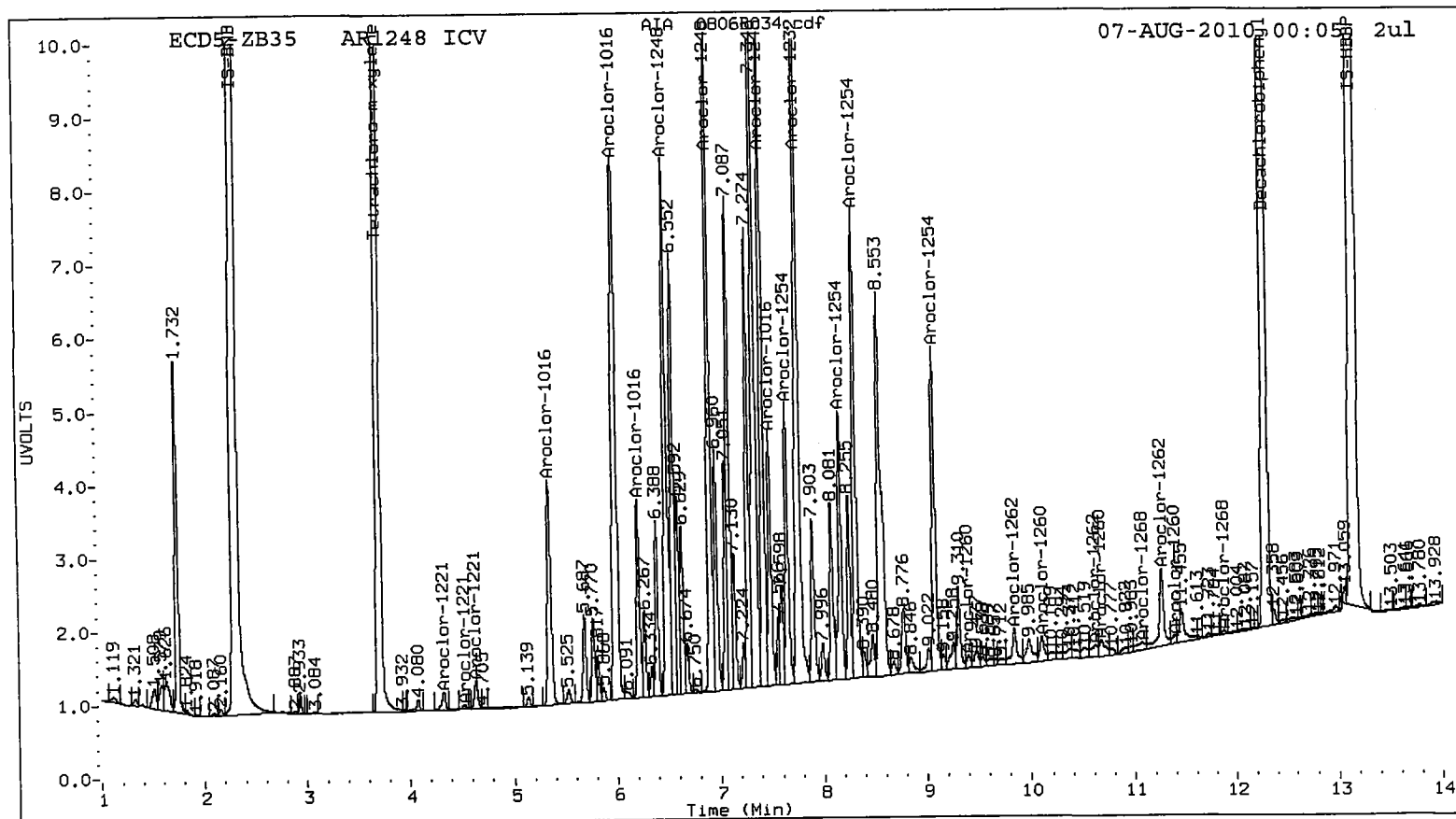
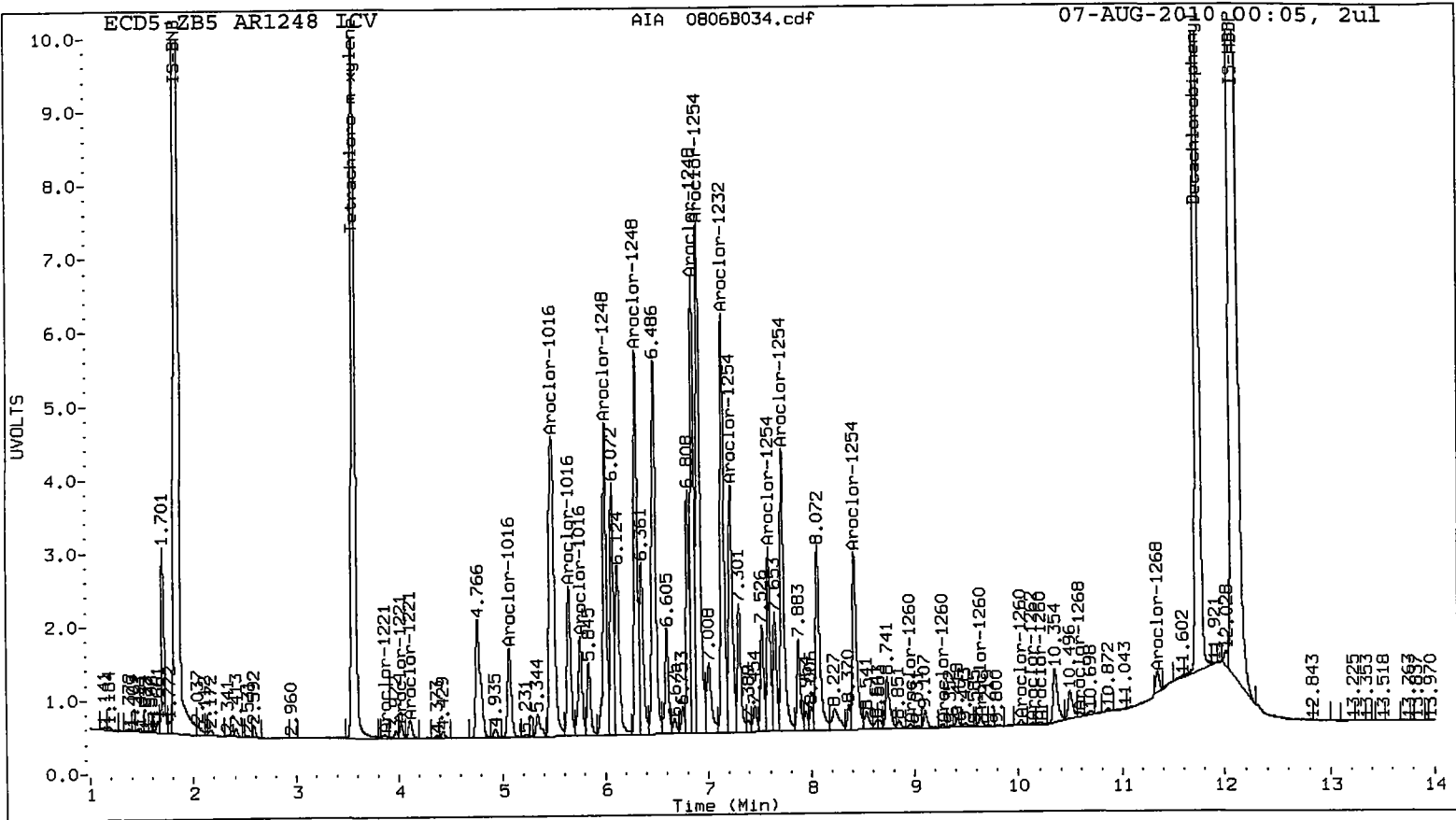
Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 01004





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B035.d
Data file 2: 20100806.b/ical-2.b/0806B035.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254 ICV
Client ID:
Injection Date: 07-AUG-2010 00:24
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.571	0.000 14212509	3.708 0.000 21976039	19.3	19.7	2.2	Tetrachloro-m-xylene
11.754	0.001 18593509	12.283 0.000 26898086	19.0	19.3	1.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	48.3	49.3
Decachlorobiphenyl	47.4	48.3

08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	36063755	1.3
Hexabromobiphenyl	47117515	48709115	3.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	79372394	1.3
Hexabromobiphenyl	74720444	76516966	2.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.074	0.001	104786	6.0	1	5.349	-0.001	270271	6.5
Aroclor-1016	2	5.484	-0.009	448218	7.9	2	5.986	-0.010	685798	7.7
Aroclor-1016	3	5.655	0.006	216064	9.1	3	6.209	0.000	173431	4.8
Aroclor-1016	4	5.764	0.000	106093	6.5	4	7.489	0.001	9138588	547.2
Total CollAve (4 peaks):				7.4		Total Col2Ave (4 peaks):				141.5 RPD = 180*
Corrected Ave (3 peaks):				6.8		Corrected Ave (3 peaks):				6.3 RPD = 7
Aroclor-1221	1	3.870	0.002	45766	6.3	1	4.325	0.037	290391	23.9
Aroclor-1221	2	4.025	0.003	199960	37.9	2	4.526	0.004	36073	4.9
Aroclor-1221	3	4.114	0.000	107523	6.4	3	4.634	0.002	188211	8.2
Aroclor-1221	NS	---			---	4	5.255	0.012	11416	5.2
Total CollAve (3 peaks):				16.8		Total Col2Ave (4 peaks):				10.6 RPD = 46*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				6.1
Aroclor-1232	1	5.074	0.001	104786	13.6	1	5.349	-0.002	270271	13.6
Aroclor-1232	2	5.484	-0.009	448218	18.0	2	5.986	-0.009	685798	17.4
Aroclor-1232	3	5.655	0.006	216064	20.9	3	6.209	0.000	173431	11.0
Aroclor-1232	4	7.148	0.003	2436879	308.6	4	7.746	-0.024	6625803	459.4
Total CollAve (4 peaks):				90.3		Total Col2Ave (4 peaks):				125.4 RPD = 33
Corrected Ave (3 peaks):				17.5		Corrected Ave (3 peaks):				14.0 RPD = 22
Aroclor-1242	1	5.074	0.000	104786	7.8	1	5.349	0.000	270271	8.6
Aroclor-1242	2	5.484	-0.010	448218	10.3	2	5.986	-0.010	685798	10.1
Aroclor-1242	3	5.655	0.005	216064	11.9	3	6.209	0.000	173431	6.4
Aroclor-1242	4	7.148	0.003	2436879	155.8	4	7.746	-0.024	6625803	230.4
Total CollAve (4 peaks):				46.5		Total Col2Ave (4 peaks):				63.9 RPD = 32
Corrected Ave (3 peaks):				10.0		Corrected Ave (3 peaks):				8.4 RPD = 18
Aroclor-1248	1	6.005	0.001	3548582	183.3	1	6.483	0.000	5429417	169.4
Aroclor-1248	2	6.310	0.001	2255564	101.4	2	6.904	0.001	3356479	90.2
Aroclor-1248	3	6.856	0.001	3478735	132.7	3	7.423	0.000	2148224	57.9
Aroclor-1248	4	7.148	0.003	2436879	97.7	4	7.746	-0.023	6625803	138.1
Total CollAve (4 peaks):				128.8		Total Col2Ave (4 peaks):				113.9 RPD = 12
Corrected Ave (3 peaks):				110.6		Corrected Ave (3 peaks):				95.4 RPD = 15
Aroclor-1254	1	6.919	0.000	7434465	253.5	1	7.489	0.001	9138588	242.9
Aroclor-1254	2	7.226	0.000	10045736	245.2	2	7.652	0.001	12481276	242.0
Aroclor-1254	3	7.593	0.000	6688316	242.8	3	8.172	0.000	9324104	240.4
Aroclor-1254	4	7.727	0.000	12648722	247.7	4	8.319	0.000	20843533	244.8
Aroclor-1254	5	8.423	0.000	8939488	248.0	5	9.086	0.000	12728011	245.3
Total CollAve (5 peaks):				247.4		Total Col2Ave (5 peaks):				243.1 RPD = 2
Corrected Ave (4 peaks):				245.9		Corrected Ave (4 peaks):				242.5 RPD = 1
Aroclor-1260	1	8.962	0.000	829211	20.2	1	9.400	0.000	1244971	16.6
Aroclor-1260	2	9.274	0.002	868117	22.3	2	10.105	0.000	4098891	24.1
Aroclor-1260	3	9.636	0.002	2052343	21.0	3	10.677	0.000	2899619	25.8
Aroclor-1260	4	10.027	0.000	1744817	36.0	4	11.397	0.002	377997	7.9
Aroclor-1260	5	10.211	0.001	190133	6.8	NS	---			---
Total CollAve (5 peaks):				21.2		Total Col2Ave (4 peaks):				18.6 RPD = 13
Corrected Ave (4 peaks):				17.6		Corrected Ave (3 peaks):				16.2 RPD = 8
Aroclor-1262	1	8.962	0.000	829211	15.0	1	9.400	0.000	1244971	12.5
Aroclor-1262	2	9.274	0.001	868117	19.1	2	9.843	-0.003	5890362	71.6
Aroclor-1262	3	9.636	0.002	2052343	20.5	3	10.620	0.004	847466	9.4
Aroclor-1262	4	10.139	0.001	172616	3.5	4	11.268	0.001	1740887	51.1
Aroclor-1262	5	10.211	0.000	190133	3.8	5	11.397	0.001	377997	5.5
Total CollAve (5 peaks):				12.4		Total Col2Ave (5 peaks):				30.0 RPD = 83*
Corrected Ave (4 peaks):				10.4		Corrected Ave (4 peaks):				19.6 RPD = 62*
Aroclor-1268	1	10.139	0.000	172616	1.4	1	10.620	0.003	847466	4.0
Aroclor-1268	2	10.211	0.003	190133	1.5	2	10.677	-0.005	2899619	14.4
Aroclor-1268	3	10.600	0.014	188291	2.0	3	11.075	0.002	336879	2.3
Aroclor-1268	4	11.351	-0.003	398985	2.0	4	11.877	0.001	143754	0.4
Total CollAve (4 peaks):				1.7		Total Col2Ave (4 peaks):				5.3 RPD = 101*
Corrected Ave (3 peaks):				1.6		Corrected Ave (3 peaks):				2.2 RPD = 30

Total PCB Area Col1 (3.671 - 11.652) = 138462529

Col1 Total PCB = 0.3 ppm*

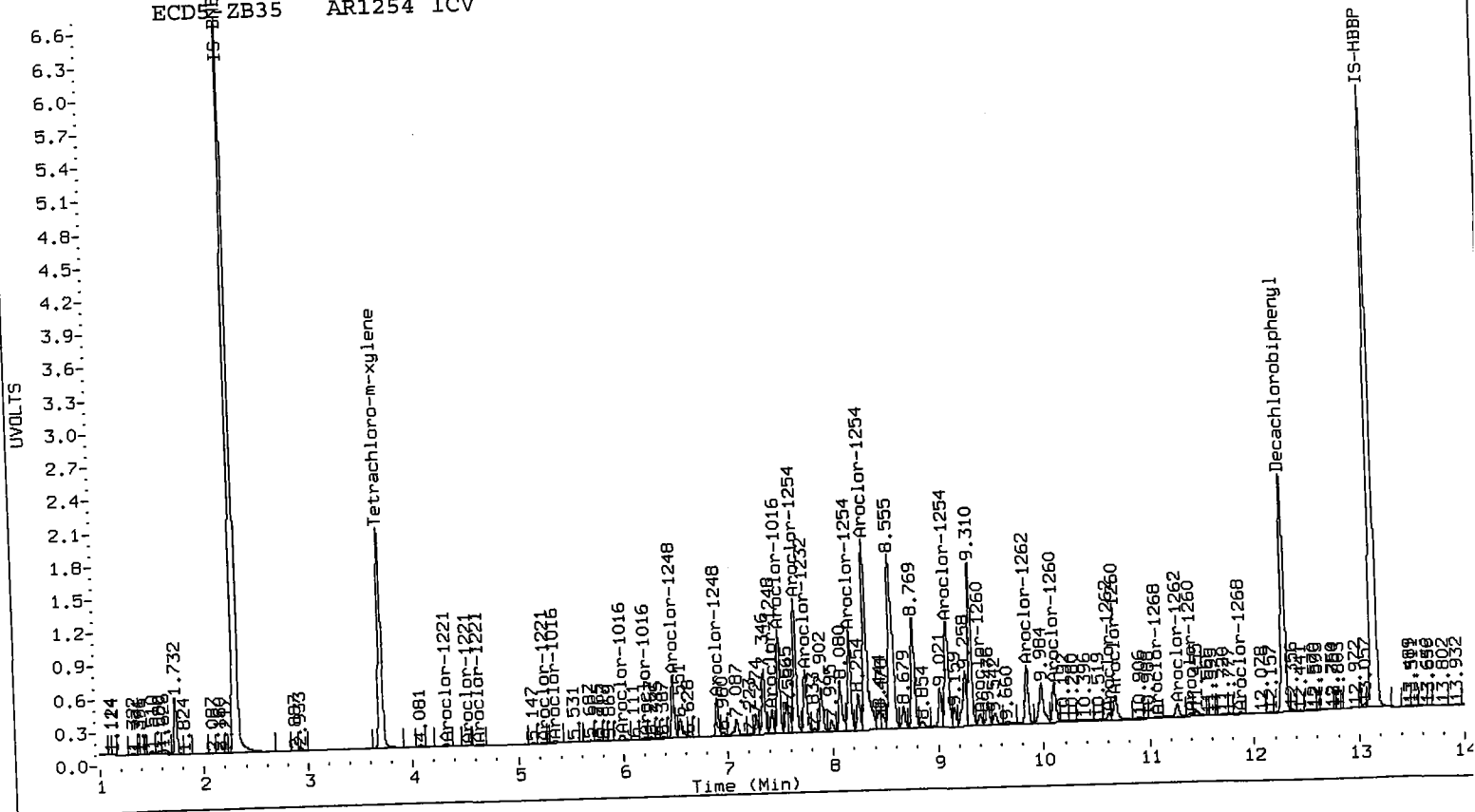
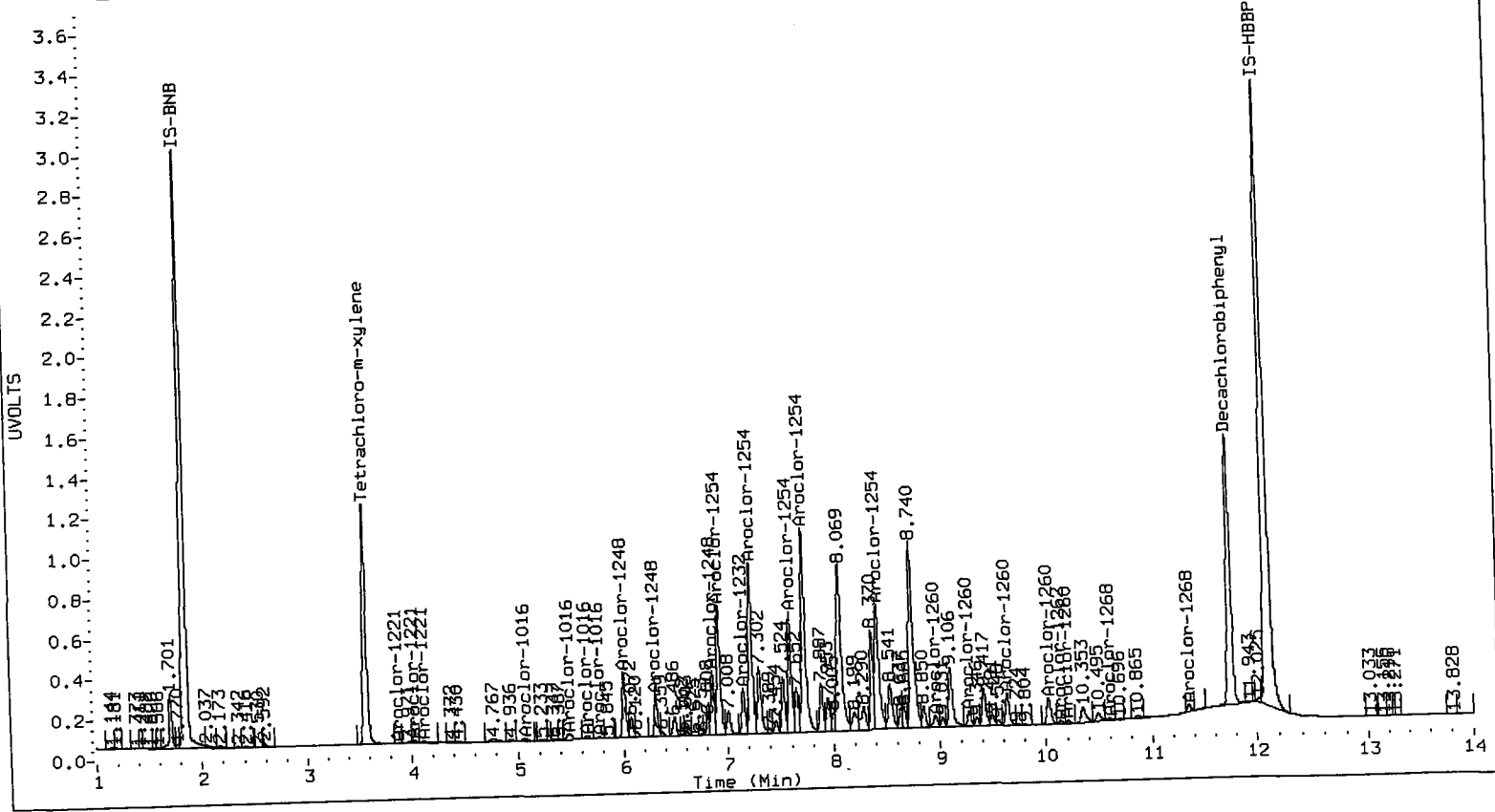
Total PCB Area Col2 (3.808 - 12.183) = 212632350

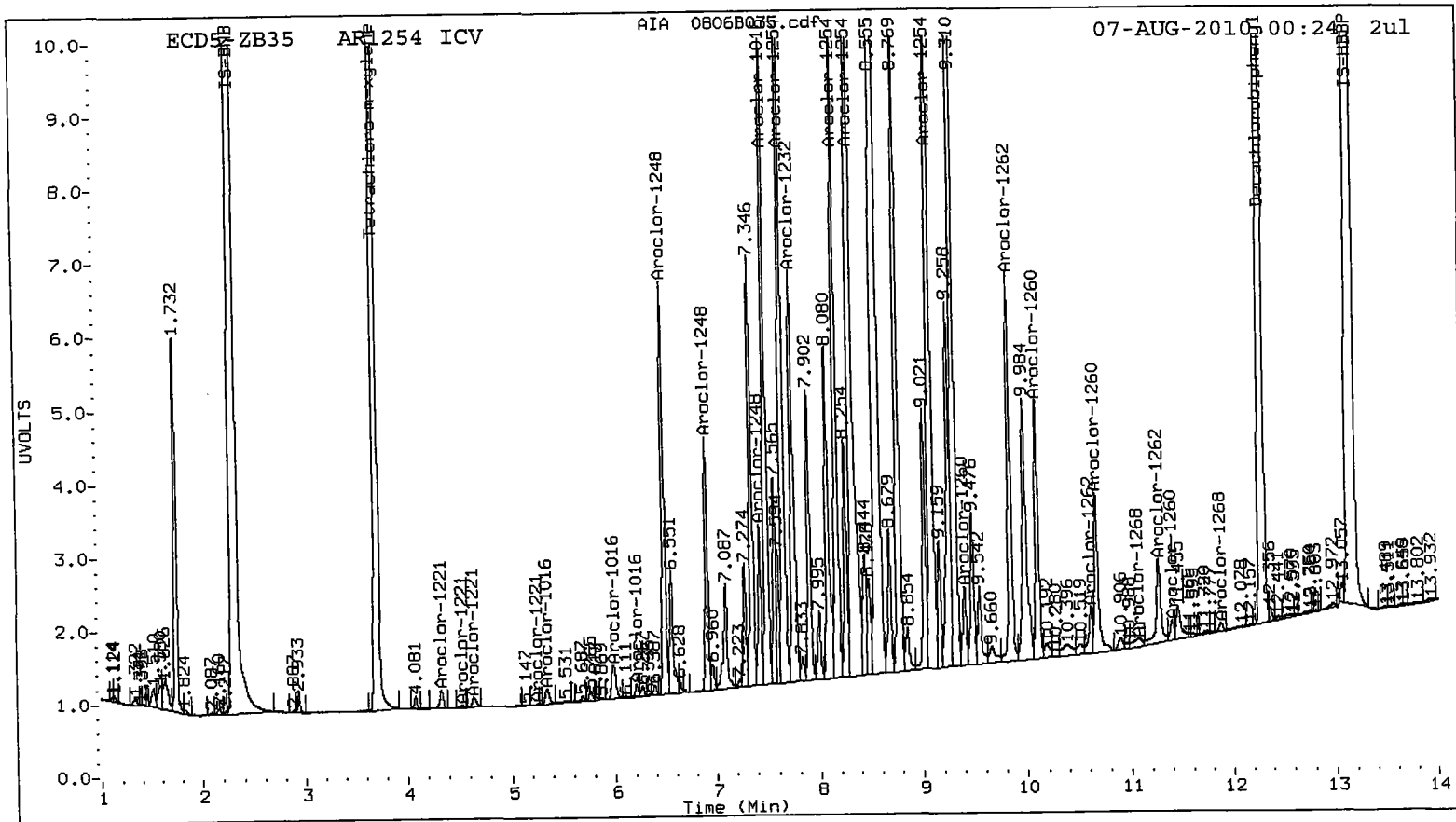
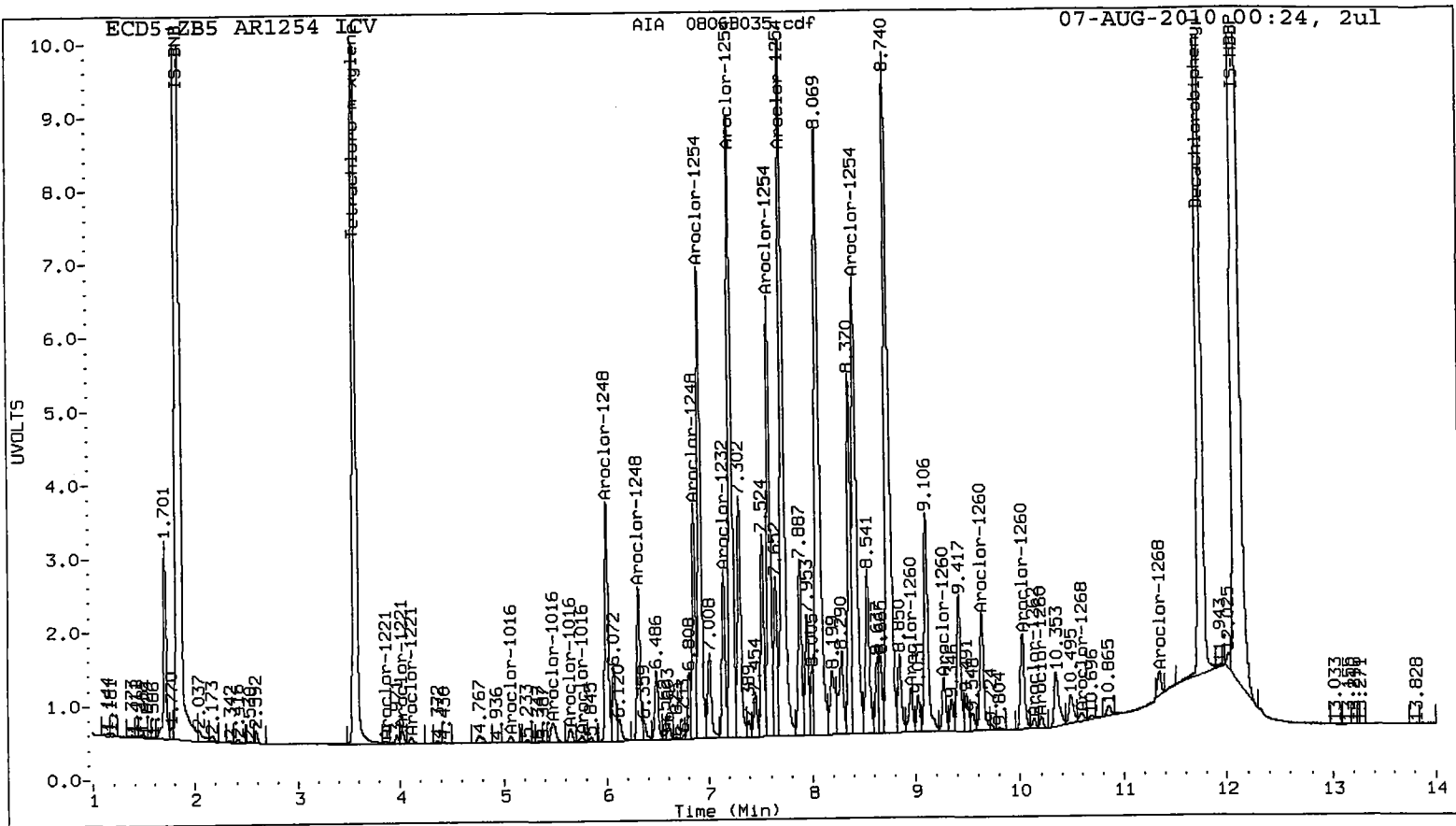
Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 01009





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B036.d
Data file 2: 20100806.b/ical-2.b/0806B036.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162 ICV
Client ID:
Injection Date: 07-AUG-2010 00:43
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.572	0.001 14561453	3.708 0.000 21850352	19.7	20.1	1.6	Tetrachloro-m-xylene
11.753	0.001 18576485	12.283 0.000 27497993	19.0	19.7	3.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.4	50.1
Decachlorobiphenyl	47.6	49.2

Handwritten signature/initials
08/07/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	36149092	1.6
Hexabromobiphenyl	47117515	48445781	2.8

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	77663595	-0.9
Hexabromobiphenyl	74720444	76844655	2.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.074	0.001	820714	47.0	1	5.357	0.007	2683376	66.0	
Aroclor-1016	2	5.495	0.002	2531153	44.3	2	5.996	0.000	3872939	44.2	
Aroclor-1016	3	5.649	0.001	1115221	47.0	3	6.209	0.000	1643038	46.7	
Aroclor-1016	4	5.764	0.001	732944	44.8	4	7.489	0.000	7116537	435.5	
Total CollAve (4 peaks):				45.8	Total Col2Ave (4 peaks):				148.1	RPD = 106*	
Corrected Ave (3 peaks):				45.4	Corrected Ave (3 peaks):				52.3	RPD = 14	
Aroclor-1221	1	3.869	0.002	1809606	247.5	1	4.289	0.000	2934879	247.0	
Aroclor-1221	2	4.023	0.001	1413646	267.3	2	4.522	0.000	1749092	244.6	
Aroclor-1221	3	4.114	0.001	4369549	257.8	3	4.633	0.000	5735171	256.8	
Aroclor-1221	NS	---	---	---	---	4	5.244	0.001	526186	245.6	
Total CollAve (3 peaks):				257.5	Total Col2Ave (4 peaks):				248.5	RPD = 4	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				245.7		
Aroclor-1232	1	5.074	0.001	820714	106.3	1	5.357	0.007	2683376	138.1	
Aroclor-1232	2	5.495	0.002	2531153	101.4	2	5.996	0.001	3872939	100.3	
Aroclor-1232	3	5.649	0.000	1115221	107.4	3	6.209	0.000	1643038	106.9	
Aroclor-1232	4	7.147	0.002	1127563	142.4	4	7.766	-0.004	1798424	127.4	
Total CollAve (4 peaks):				114.4	Total Col2Ave (4 peaks):				118.2	RPD = 3	
Corrected Ave (3 peaks):				105.0	Corrected Ave (3 peaks):				111.6	RPD = 6	
Aroclor-1242	1	5.074	0.000	820714	61.3	1	5.357	0.008	2683376	86.9	
Aroclor-1242	2	5.495	0.001	2531153	57.9	2	5.996	0.000	3872939	58.5	
Aroclor-1242	3	5.649	0.001	1115221	61.5	3	6.209	0.000	1643038	61.5	
Aroclor-1242	4	7.147	0.002	1127563	71.9	4	7.766	-0.005	1798424	63.9	
Total CollAve (4 peaks):				63.1	Total Col2Ave (4 peaks):				67.7	RPD = 7	
Corrected Ave (3 peaks):				60.2	Corrected Ave (3 peaks):				61.3	RPD = 2	
Aroclor-1248	1	6.005	0.001	874565	45.1	1	6.483	0.000	1385429	44.2	
Aroclor-1248	2	6.310	0.000	772497	34.7	2	6.904	0.001	1492549	41.0	
Aroclor-1248	3	6.856	0.001	926871	35.3	3	7.422	0.000	1029740	28.4	
Aroclor-1248	4	7.147	0.002	1127563	45.1	4	7.766	-0.003	1798424	38.3	
Total CollAve (4 peaks):				40.0	Total Col2Ave (4 peaks):				38.0	RPD = 5	
Corrected Ave (3 peaks):				38.3	Corrected Ave (3 peaks):				35.9	RPD = 7	
Aroclor-1254	1	6.919	0.000	5433158	184.8	1	7.489	0.000	7116537	193.3	
Aroclor-1254	2	7.227	0.001	6213107	151.3	2	7.652	0.000	9098172	180.3	
Aroclor-1254	3	7.593	0.000	1256479	45.5	3	8.171	0.000	1713666	45.1	
Aroclor-1254	4	7.694	-0.032	8455490	165.2	4	8.355	0.035	43734903	524.9	
Aroclor-1254	5	8.371	-0.052	43541925	1205.0	5	9.099	0.014	9173305	180.7	
Total CollAve (5 peaks):				350.4	Total Col2Ave (5 peaks):				224.9	RPD = 44*	
Corrected Ave (4 peaks):				136.7	Corrected Ave (4 peaks):				149.9	RPD = 9	
Aroclor-1260	1	8.964	0.001	52426455	1283.4	1	9.401	0.001	104012975	1383.2	
Aroclor-1260	2	9.273	0.001	41167711	1060.9	2	10.106	0.001	191261924	1120.8	
Aroclor-1260	3	9.636	0.001	96767855	994.8	3	10.680	0.003	121955336	1080.2	
Aroclor-1260	4	10.027	0.001	36116147	748.3	4	11.396	0.001	71924564	1502.6	
Aroclor-1260	5	10.211	0.001	46602546	1681.1	NS	---	---	---	---	
Total CollAve (5 peaks):				1153.7	Total Col2Ave (4 peaks):				1271.7	RPD = 10	
Corrected Ave (4 peaks):				1021.8	Corrected Ave (3 peaks):				1194.8	RPD = 16	
Aroclor-1262	1	8.964	0.001	52426455	956.2	1	9.401	0.001	104012975	1040.3	
Aroclor-1262	2	9.273	0.001	41167711	909.5	2	9.846	0.000	78355130	948.0	
Aroclor-1262	3	9.636	0.001	96767855	974.1	3	10.618	0.002	87891383	974.8	
Aroclor-1262	4	10.139	0.001	44651048	910.2	4	11.267	0.000	30454229	889.5	
Aroclor-1262	5	10.211	0.000	46602546	945.0	5	11.396	0.000	71924564	1042.8	
Total CollAve (5 peaks):				939.0	Total Col2Ave (5 peaks):				979.1	RPD = 4	
Corrected Ave (4 peaks):				930.2	Corrected Ave (4 peaks):				963.1	RPD = 3	
Aroclor-1268	1	10.139	0.001	44651048	369.4	1	10.618	0.000	87891383	415.7	
Aroclor-1268	2	10.211	0.003	46602546	368.7	2	10.680	-0.002	121955336	601.9	
Aroclor-1268	3	10.602	0.015	19225594	208.0	3	11.073	0.000	4934824	33.3	
Aroclor-1268	4	11.354	0.001	13381672	68.2	4	11.875	-0.001	22126226	57.8	
Total CollAve (4 peaks):				253.6	Total Col2Ave (4 peaks):				277.2	RPD = 9	
Corrected Ave (3 peaks):				215.0	Corrected Ave (3 peaks):				168.9	RPD = 24	

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Total PCB Area Col1 (3.671 - 11.652) = 727810430

Col1 Total PCB = 1.5 ppm*

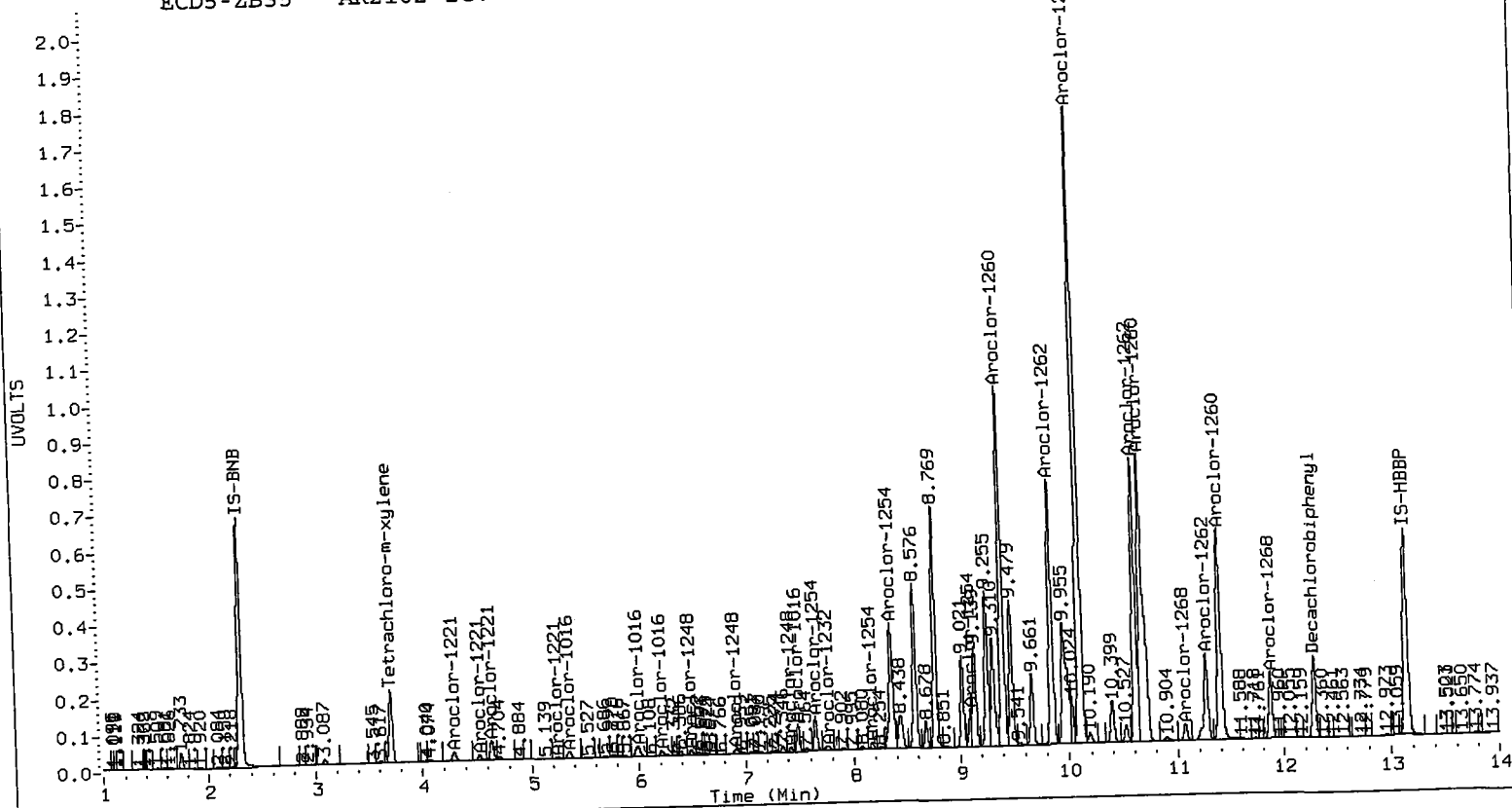
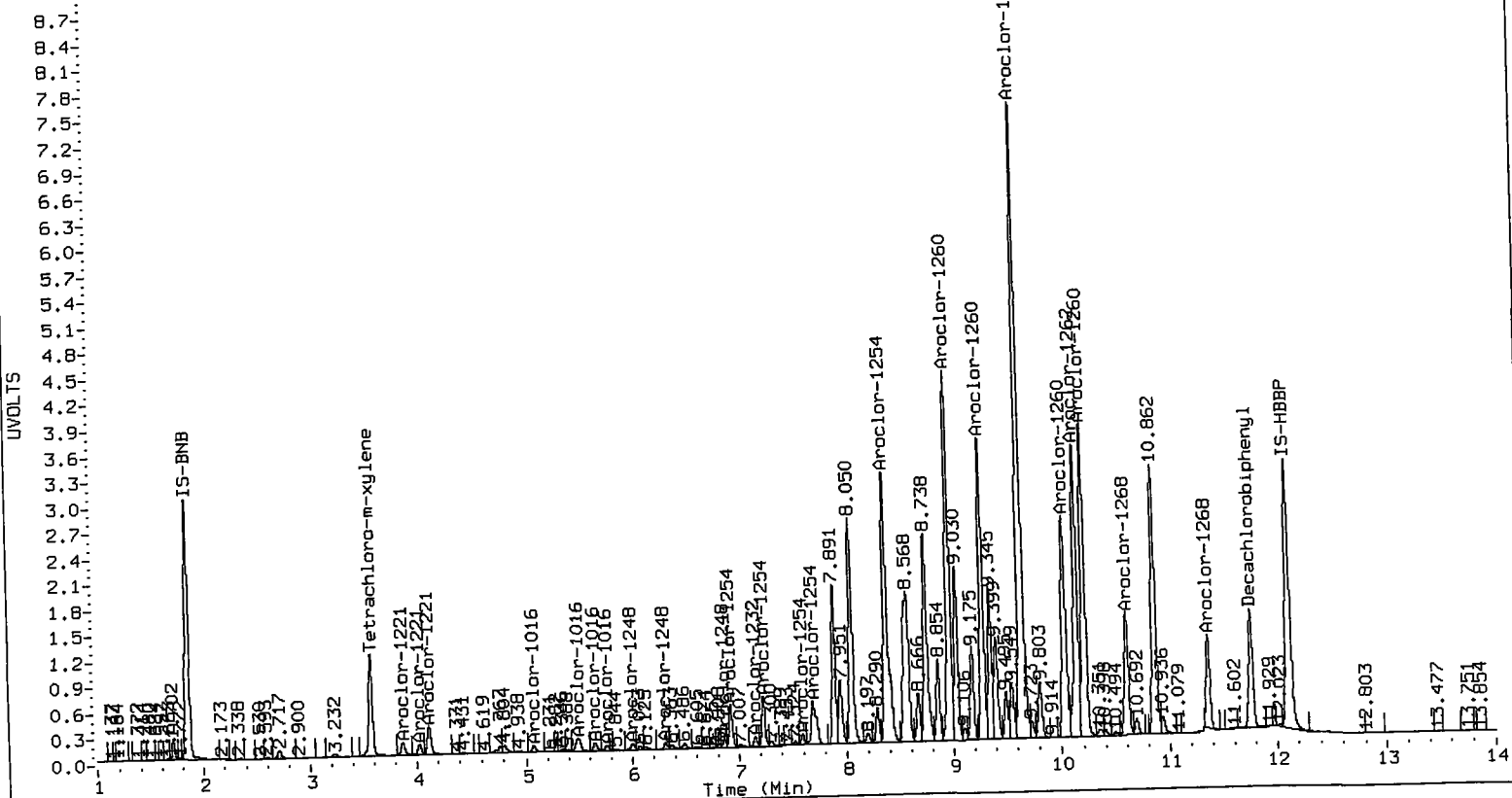
Total PCB Area Col2 (3.808 - 12.183) = 1246440509

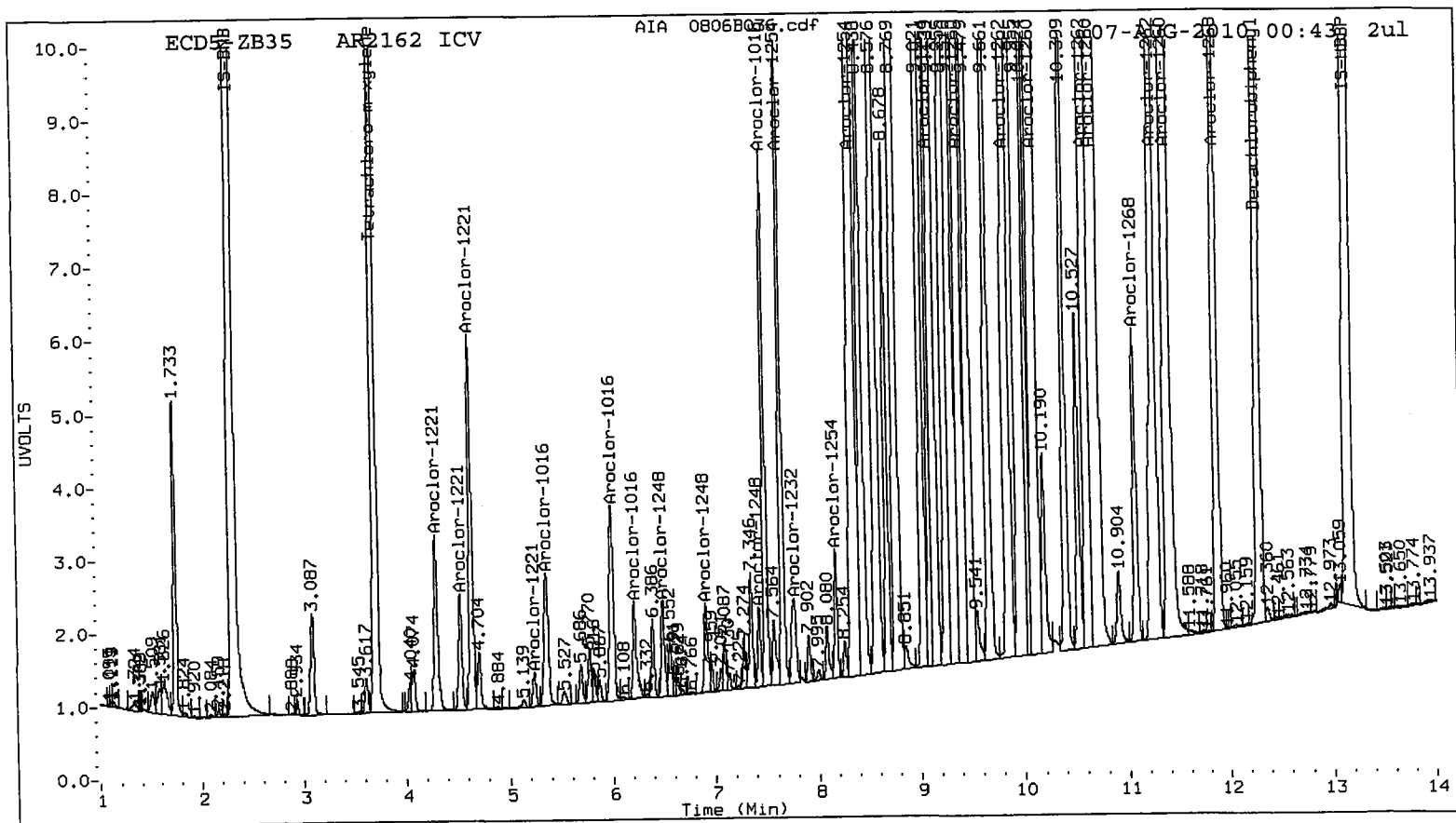
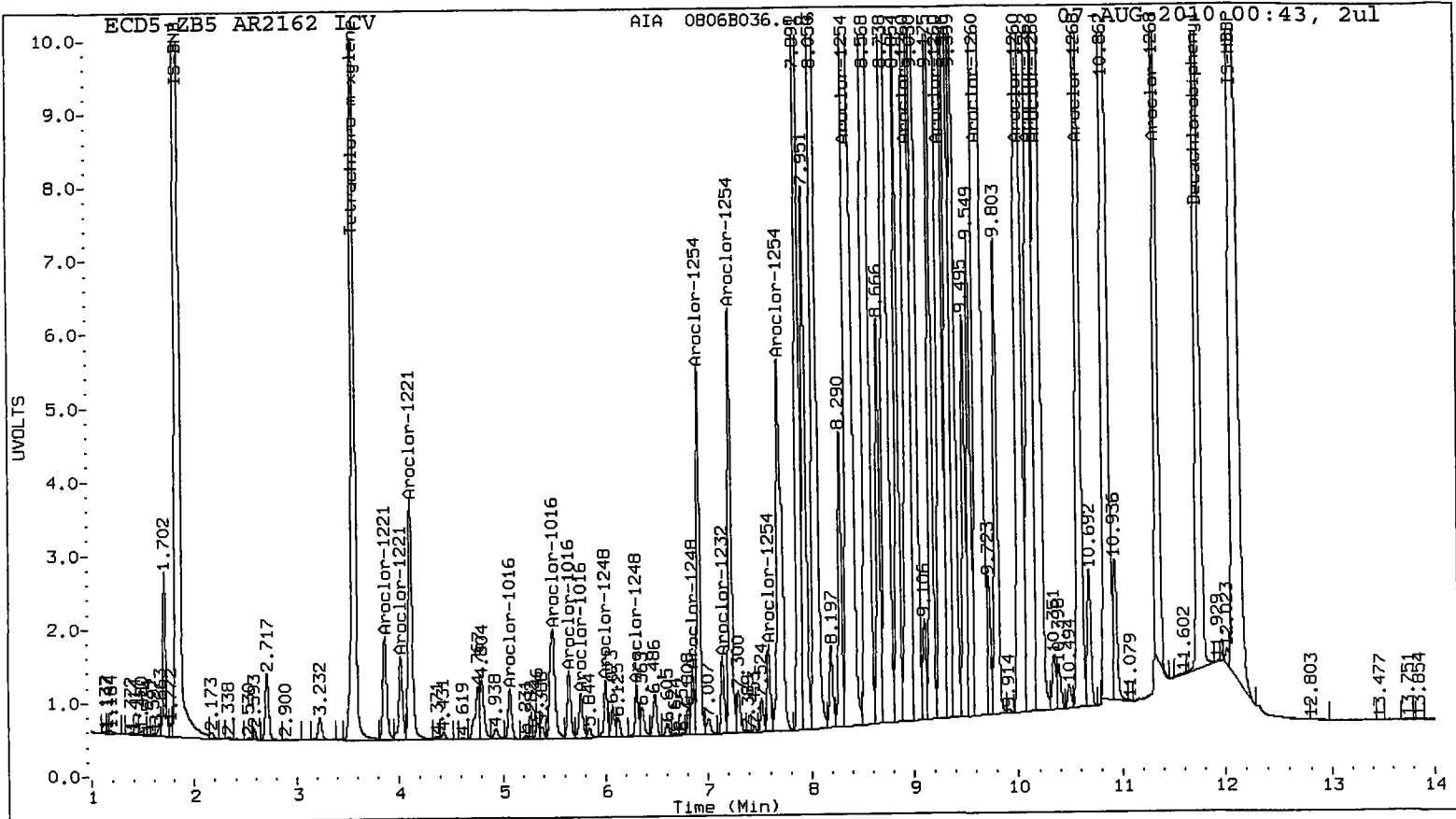
Col2 Total PCB = 1.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 01014





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/ical-1.b/0806B037.d
Data file 2: 20100806.b/ical-2.b/0806B037.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268 ICV
Client ID:
Injection Date: 07-AUG-2010 01:02
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.570	0.000	14700529	3.707	-0.001	22445292	20.5	21.2	3.4	Tetrachloro-m-xylene
11.752	0.000	80202269	12.283	0.000	133940444	83.4	97.3	15.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	51.2	53.0
Decachlorobiphenyl	208.5	243.2

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INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	35163396	-1.2
Hexabromobiphenyl	47117515	47742140	1.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	75528729	-3.6
Hexabromobiphenyl	74720444	75678756	1.3

- * Standard Areas taken from Initial Cal Level 3
- Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.074	0.000	1920632	113.0	1	5.349	-0.001	4831988	122.2	
Aroclor-1016	2	5.492	0.000	6437381	115.9	2	5.994	-0.002	9967766	117.0	
Aroclor-1016	3	5.650	0.001	2664592	115.4	3	6.209	0.000	3990872	116.6	
Aroclor-1016	4	5.764	0.000	1817766	114.3	4	7.488	0.000	1117837	70.3	
Total CollAve (4 peaks):				114.7	Total Col2Ave (4 peaks):				106.5	RPD = 7	
Corrected Ave (3 peaks):				114.3	Corrected Ave (3 peaks):				101.3	RPD = 12	
Aroclor-1221	1	3.867	0.000	1041940	146.5	1	4.288	0.000	1749887	151.4	
Aroclor-1221	2	4.023	0.001	891117	173.2	2	4.522	0.000	1081419	155.5	
Aroclor-1221	3	4.113	-0.001	2985593	181.1	3	4.632	0.000	4031482	185.6	
Aroclor-1221	NS	---	---	---	---	4	5.243	0.000	227276	109.1	
Total CollAve (3 peaks):				166.9	Total Col2Ave (4 peaks):				150.4	RPD = 10	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				138.7		
Aroclor-1232	1	5.074	0.000	1920632	255.7	1	5.349	-0.001	4831988	255.8	
Aroclor-1232	2	5.492	0.000	6437381	265.1	2	5.994	-0.001	9967766	265.5	
Aroclor-1232	3	5.650	0.001	2664592	263.9	3	6.209	0.000	3990872	267.1	
Aroclor-1232	4	7.146	0.001	2769410	359.7	4	7.770	0.000	4935402	359.6	
Total CollAve (4 peaks):				286.1	Total Col2Ave (4 peaks):				287.0	RPD = 0	
Corrected Ave (3 peaks):				261.6	Corrected Ave (3 peaks):				262.8	RPD = 0	
Aroclor-1242	1	5.074	0.000	1920632	147.4	1	5.349	0.000	4831988	160.9	
Aroclor-1242	2	5.492	-0.001	6437381	151.4	2	5.994	-0.001	9967766	154.8	
Aroclor-1242	3	5.650	0.000	2664592	151.1	3	6.209	0.000	3990872	153.7	
Aroclor-1242	4	7.146	0.000	2769410	181.6	4	7.770	-0.001	4935402	180.4	
Total CollAve (4 peaks):				157.8	Total Col2Ave (4 peaks):				162.4	RPD = 3	
Corrected Ave (3 peaks):				149.9	Corrected Ave (3 peaks):				156.5	RPD = 4	
Aroclor-1248	1	6.005	0.000	1877284	99.4	1	6.483	0.000	3209593	105.2	
Aroclor-1248	2	6.310	0.000	2270621	104.7	2	6.904	0.001	4373331	123.5	
Aroclor-1248	3	6.855	0.000	2571880	100.6	3	7.423	0.000	3843556	108.9	
Aroclor-1248	4	7.146	0.001	2769410	113.8	4	7.770	0.001	4935402	108.1	
Total CollAve (4 peaks):				104.7	Total Col2Ave (4 peaks):				111.4	RPD = 6	
Corrected Ave (3 peaks):				101.6	Corrected Ave (3 peaks):				107.4	RPD = 6	
Aroclor-1254	1	6.911	-0.008	3446131	120.5	1	7.488	0.000	1117837	31.2	
Aroclor-1254	2	7.224	-0.002	1378587	34.5	2	7.652	0.000	1224413	24.9	
Aroclor-1254	3	7.593	0.001	780053	29.0	3	8.171	-0.001	1123392	30.4	
Aroclor-1254	4	7.728	0.002	1423379	28.6	4	8.317	-0.002	2640713	32.6	
Aroclor-1254	5	8.428	0.005	1062713	30.2	5	9.081	-0.004	1497613	30.3	
Total CollAve (5 peaks):				48.6	Total Col2Ave (5 peaks):				29.9	RPD = 48*	
Corrected Ave (4 peaks):				30.6	Corrected Ave (4 peaks):				29.2	RPD = 5	
Aroclor-1260	1	8.963	0.001	23729239	589.5	1	9.400	0.001	44641067	602.8	
Aroclor-1260	2	9.272	0.001	1789147	46.8	2	10.104	-0.001	25749253	153.2	
Aroclor-1260	3	9.634	0.000	15503746	161.7	3	10.684	0.006	209572660	1884.8	
Aroclor-1260	4	10.029	0.003	343662	7.2	4	11.395	0.001	83517874	1771.7	
Aroclor-1260	5	10.208	-0.002	114253122	4182.3	NS	---	---	---	---	
Total CollAve (5 peaks):				997.5	Total Col2Ave (4 peaks):				1103.1	RPD = 10	
Corrected Ave (4 peaks):				201.3	Corrected Ave (3 peaks):				842.6	RPD = 123*	
Aroclor-1262	1	8.963	0.000	23729239	439.2	1	9.400	0.001	44641067	453.4	
Aroclor-1262	2	9.272	0.000	1789147	40.1	2	9.845	-0.001	57701183	708.9	
Aroclor-1262	3	9.634	-0.001	15503746	158.4	3	10.619	0.003	242501184	2730.9	
Aroclor-1262	4	10.139	0.001	118775128	2456.9	4	11.217	-0.049	54188123	1607.2	
Aroclor-1262	5	10.208	-0.003	114253122	2350.8	5	11.395	-0.001	83517874	1229.6	
Total CollAve (5 peaks):				1089.1	Total Col2Ave (5 peaks):				1346.0	RPD = 21	
Corrected Ave (4 peaks):				747.1	Corrected Ave (4 peaks):				999.7	RPD = 29	
Aroclor-1268	1	10.139	0.000	118775128	997.2	1	10.619	0.002	242501184	1164.6	
Aroclor-1268	2	10.208	0.000	114253122	917.3	2	10.684	0.001	209572660	1050.2	
Aroclor-1268	3	10.586	-0.001	102838118	1129.0	3	11.074	0.001	191329483	1310.7	
Aroclor-1268	4	11.355	0.001	22692146	1173.6	4	11.891	0.015	377339763	1001.5	
Total CollAve (4 peaks):				1054.3	Total Col2Ave (4 peaks):				1131.8	RPD = 7	
Corrected Ave (3 peaks):				1014.5	Corrected Ave (3 peaks):				1072.1	RPD = 6	

Total PCB Area Col1 (3.671 - 11.652) = 792699868

Col1 Total PCB = 1.7 ppm*

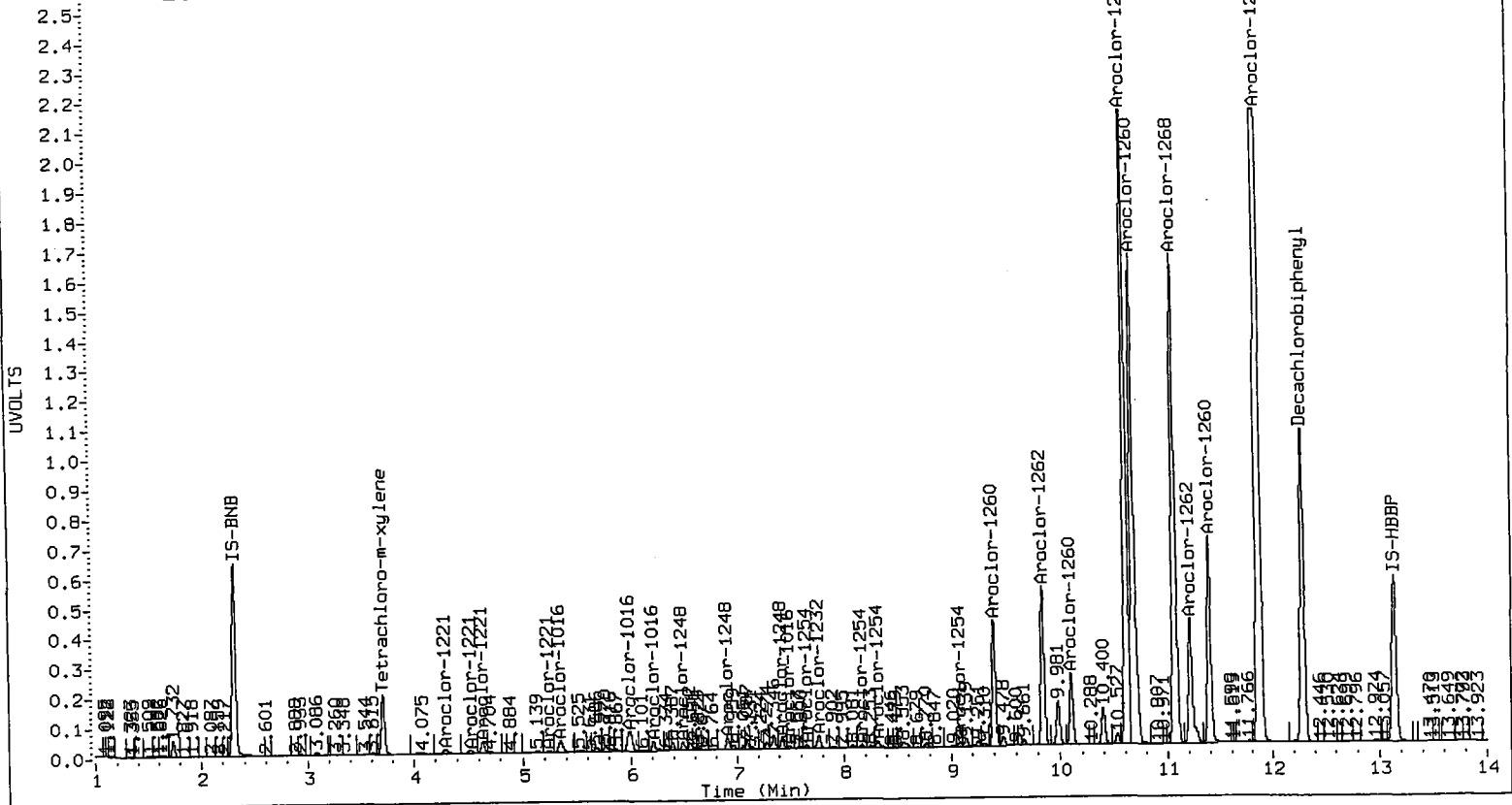
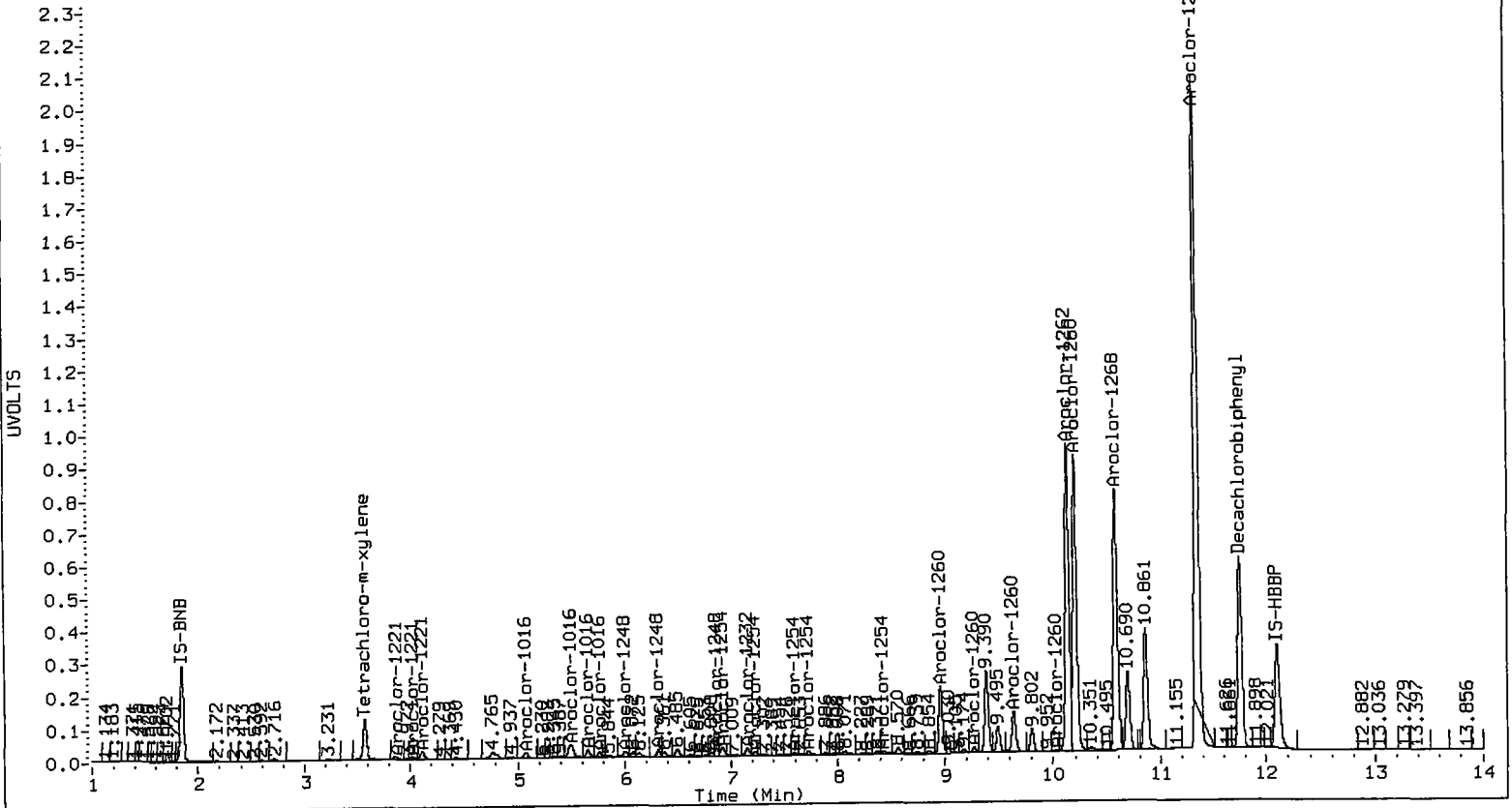
Total PCB Area Col2 (3.808 - 12.183) = 1415709891

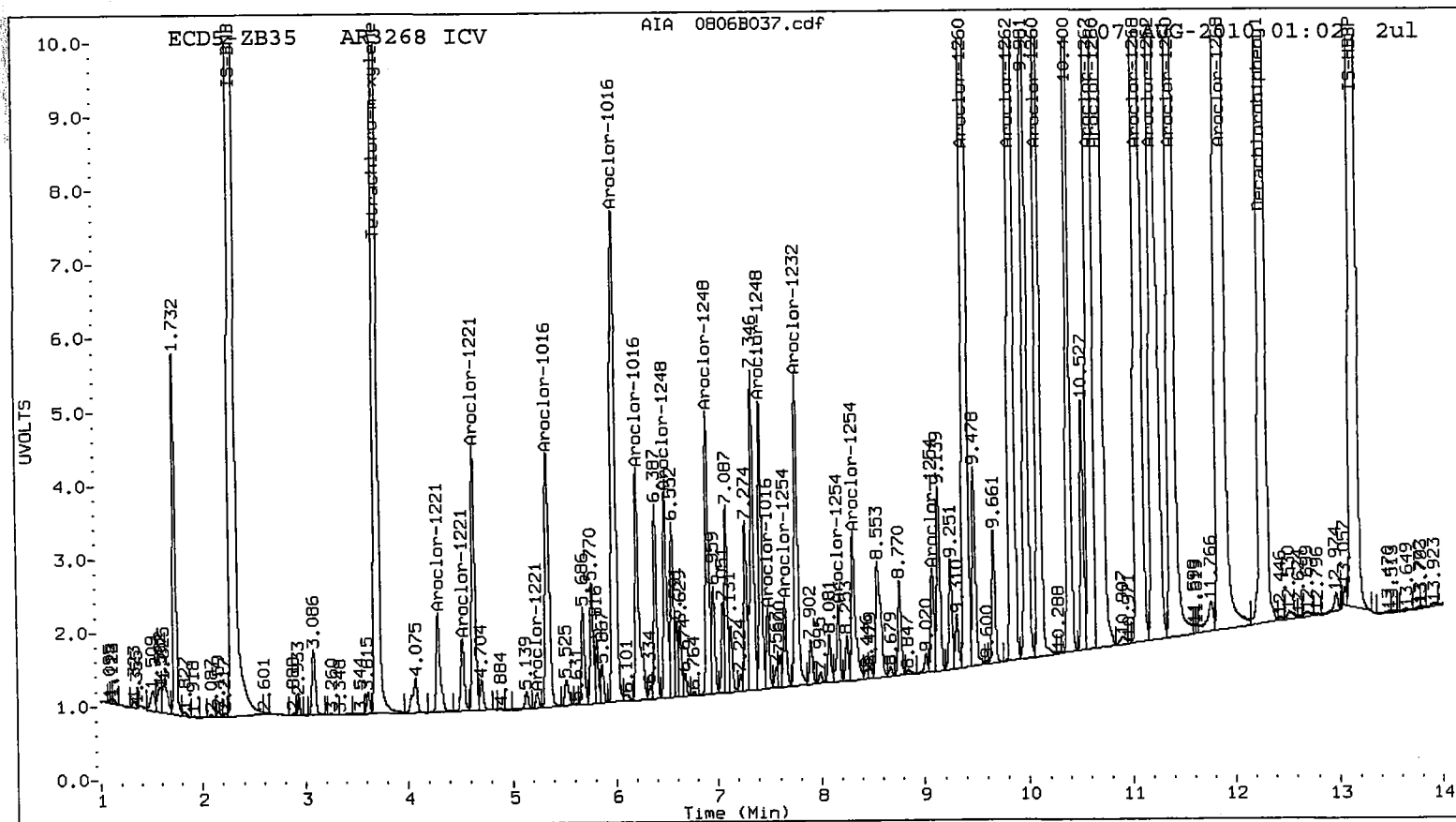
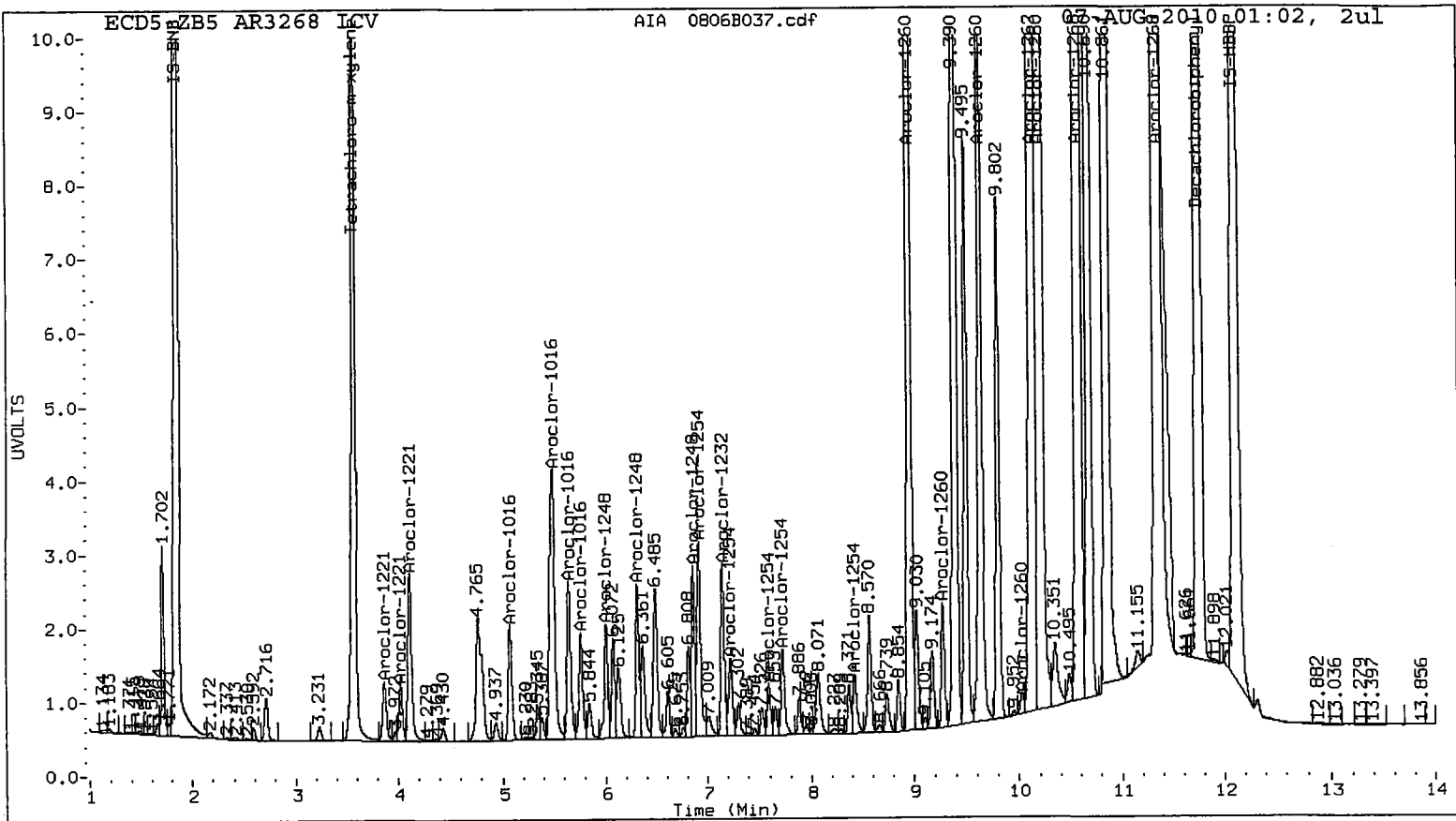
Col2 Total PCB = 1.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 01019





7E
8082 DDT BREAKDOWN VERIFICATION SUMMARY

Lab ID: DDT BD

Analysis Date: 07-AUG-2010 01:39 Init. Calib. Date: 06-AUG-2010

GC Column: ZB5 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4-DDE	7.614	326984
4,4-DDD	8.178	618963
4,4-DDT	8.677	7805194

Col 1: 4,4-DDT Percent Breakdown = 10.8 %

GC Column: ZB35 ID: 0.53 (mm)

COMPOUND	RT	AREA
4,4-DDE	8.113	241979
4,4-DDD/2,4-DDT	8.864	851705
4,4-DDT	9.291	12470843

Col 2: 4,4-DDT Percent Breakdown = 8.1 %

Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecds.i/20100806.b/PCB2.m
Batch File: /chem2/ecds.i/20100806.b/ical-2.b
Inst ID: ecd5.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 0806B021 0806B022 0806B023 0806B024 0806B025 0806B026
INJ. DATE: 06-AUG-2010 06-AUG-2010 06-AUG-2010 06-AUG-2010 06-AUG-2010 06-AUG-2010
INJ. TIME: 20:00 20:19 20:38 20:57 21:16 21:34

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 40 IS-BNB	2.307	2.308	2.308	2.308	2.308	2.310	2.308	2.208-2.408	2.308	0.001
\$ 2 Tetrachloro-m-xylene	3.707	3.708	3.708	3.708	3.708	3.709	3.708	3.608-3.808	3.708	0.000
1 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	4.289	4.189-4.389	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	5.351	5.251-5.451	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	5.349	5.249-5.449	+++++	+++++
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	6.483	6.383-6.583	+++++	+++++
7 Aroclor-1016	5.349	5.349	5.349	5.349	5.349	5.350	5.350	5.250-5.450	5.349	0.000
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	7.489	7.388-7.588	+++++	+++++
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	9.400	9.300-9.500	+++++	+++++
9 Aroclor-1260	9.400	9.400	9.400	9.401	9.400	9.400	9.400	9.300-9.500	9.400	0.000
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	10.617	10.517-10.717	+++++	+++++
\$ 13 Decachlorobiphenyl	12.284	12.284	12.283	12.284	12.282	12.282	12.283	12.183-12.383	12.283	0.001
* 12 IS-HBBP	13.146	13.146	13.146	13.147	13.146	13.146	13.146	13.046-13.246	13.146	0.000
41 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	7.743	7.693-7.793	+++++	+++++
42 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	8.414	8.364-8.464	+++++	+++++
44 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.015-8.215	+++++	+++++
45 4,4-DDD/2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	8.858	8.758-8.958	+++++	+++++

Reviewer 1
Reviewer 2

Date: 8/10/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecds.i/20100806.b/PCB2.m
Batch File: /chem2/ecds.i/20100806.b/ical-2.b
Inst ID: ecd5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
46 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	9.291	9.191-9.391	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecds.i/20100806.b/PCBI.m
Batch File: /chem2/ecds.i/20100806.b/ical-1.b
Inst ID: ecd5.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	0806B021	0806B022	0806B023	0806B024	0806B025	0806B026
INJ DATE:	06-AUG-2010	06-AUG-2010	06-AUG-2010	06-AUG-2010	06-AUG-2010	06-AUG-2010
INJ TIME:	20:00	20:19	20:38	20:57	21:16	21:34

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 41 IS-BMS	1.848	1.849	1.849	1.849	1.849	1.850	1.849	1.749-1.949	1.849	0.001
\$ 1 Tetrachloro-m-xylene	3.571	3.571	3.571	3.571	3.571	3.571	3.571	3.471-3.671	3.571	0.000
2 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	3.867	3.767-3.967	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	5.074	4.974-5.174	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	5.073	4.973-5.173	+++++	+++++
7 Aroclor-1016	5.073	5.074	5.074	5.073	5.074	5.073	5.073	4.973-5.173	5.074	0.000
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	6.004	5.904-6.104	+++++	+++++
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	6.919	6.819-7.019	+++++	+++++
9 Aroclor-1260	8.962	8.963	8.963	8.963	8.963	8.962	8.962	8.862-9.062	8.963	0.000
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	8.963	8.863-9.063	+++++	+++++
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	10.139	10.039-10.239	+++++	+++++
\$ 13 Decachlorobiphenyl	11.752	11.753	11.754	11.753	11.753	11.752	11.752	11.652-11.852	11.753	0.001
* 12 IS-HBBP	12.108	12.108	12.109	12.107	12.108	12.107	12.107	12.007-12.207	12.108	0.001
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	7.190	7.140-7.240	+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	7.732	7.682-7.782	+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	8.227	8.177-8.277	+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	7.611	7.511-7.711	+++++	+++++

Reviewer 1
Reviewer 2

Date: 8/19/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecds.i/20100806.b/PCB1.m
Batch File: /chem2/ecds.i/20100806.b/ical-1.b
Inst ID: ecd5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	8.174	8.074-8.274	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	8.677	8.577-8.777	+++++	+++++

**PCB Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: RF71



GC Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: Bay Wood

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): PCB TCMX DCB

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: 08/06/10 Analysis Start: 08/10/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria? YES / NO Surrogate Recovery In Control? YES / NO

Manual Integrations for ICal? YES / NO Manual Integrations for Samples? YES / NO

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):

*AR1248 can drop low peak to bring ccal up
08/11/10*

? flag 54 08/11/10

Additional Details on Reverse: Yes No

Analyst: JR Date: 08/11/10

Reviewer: MW Date: 8/11/10

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: 08/10/10 Analysis: PCB'S Analyst: JR
 GC Program: PCB 2 Column No.: 175636/167445 Column Type: ZB5/ZB35
 Instrument Tune (.U or .CT.): N/A EM Voltage: N/A
 Calibration File: N/A Curve Date: 08/06/10

IS/SS

1716-3

Ical/Ccal

1721-3
1690-243
1691-11213

LCS/ICV

1692-1,2,3
1693-1,2,3

Inject Date/Time	Filename	DF	LabID	Inject Date/Time	Filename	DF	LabID
10-AUG-2010 08:10	0810B001.d	1	0.1 PPM I	11-AUG-2010 01:41	0810B051.d	5	RH51MBS1
10-AUG-2010 08:29	0810B002.d	10	DDT BD	11-AUG-2010 02:00	0810B052.d	5	RH51LCSS:
10-AUG-2010 08:48	0810B003.d	1	AR1254	11-AUG-2010 02:19	0810B053.d	5	RH51LCSD:
10-AUG-2010 09:07	0810B004.d	1	AR1660	11-AUG-2010 02:38	0810B054.d	5	RH51A
10-AUG-2010 09:26	0810B005.d	10	RG690	11-AUG-2010 02:57	0810B055.d	5	RH51B
10-AUG-2010 09:44	0810B006.d	10	RG69P	11-AUG-2010 03:15	0810B056.d	5	RH51C
10-AUG-2010 10:03	0810B007.d	1	AR1242	11-AUG-2010 03:34	0810B057.d	5	RH51D
10-AUG-2010 10:22	0810B008.d	1	AR1660	11-AUG-2010 03:53	0810B058.d	1	AR1248
10-AUG-2010 10:45	0810B009.d	1	AR1242	11-AUG-2010 04:12	0810B059.d	1	AR1660
10-AUG-2010 11:04	0810B010.d	1	AR1660	11-AUG-2010 04:31	0810B060.d	5	RH01MBS1
10-AUG-2010 12:44	0810B011.d	1	RINSE	11-AUG-2010 04:50	0810B061.d	5	RH01LCSS:
10-AUG-2010 13:03	0810B012.d	1	RINSE	11-AUG-2010 05:09	0810B062.d	5	RH01LCSD:
10-AUG-2010 13:21	0810B013.d	1	AR1660	11-AUG-2010 05:27	0810B063.d	5	RH01A
10-AUG-2010 13:40	0810B014.d	1	AR1242	11-AUG-2010 05:46	0810B064.d	5	RH01B
10-AUG-2010 13:59	0810B015.d	1	AR1248	11-AUG-2010 06:05	0810B065.d	5	RH01C
10-AUG-2010 14:18	0810B016.d	1	AR1254	11-AUG-2010 06:24	0810B066.d	5	RH01D
10-AUG-2010 15:02	0810B017.d	5	RF71MBS1				
10-AUG-2010 15:20	0810B018.d	5	RF71LCSS:				
10-AUG-2010 15:39	0810B019.d	5	RF71LCSD:				
10-AUG-2010 15:58	0810B020.d	5	RF71A				
10-AUG-2010 16:17	0810B021.d	5	RG47MBS1				
10-AUG-2010 16:36	0810B022.d	5	RG47LCSS:				
10-AUG-2010 16:55	0810B023.d	5	RG47LCSD:				
10-AUG-2010 17:13	0810B024.d	5	RG47A				
10-AUG-2010 17:32	0810B025.d	5	RG57C				
10-AUG-2010 17:51	0810B026.d	5	RG57D				
10-AUG-2010 18:10	0810B027.d	5	RG57E				
10-AUG-2010 18:29	0810B028.d	5	RG57F				
10-AUG-2010 18:48	0810B029.d	1	AR1248				
10-AUG-2010 19:06	0810B030.d	1	AR1660				
10-AUG-2010 19:25	0810B031.d	5	RF96MBS1				
10-AUG-2010 19:44	0810B032.d	5	RF96LCSS:				
10-AUG-2010 20:03	0810B033.d	5	RF96LCSD:				
10-AUG-2010 20:22	0810B034.d	5	RF96A				
10-AUG-2010 20:40	0810B035.d	5	RF96B				
10-AUG-2010 20:59	0810B036.d	5	RG11A				
10-AUG-2010 21:18	0810B037.d	5	RG85A				
10-AUG-2010 21:37	0810B038.d	5	RG85B				
10-AUG-2010 21:56	0810B039.d	1	AR1254				
10-AUG-2010 22:14	0810B040.d	1	AR1660				
10-AUG-2010 22:33	0810B041.d	5	RH02MBS2				
10-AUG-2010 22:52	0810B042.d	5	RH02LCSS:				
10-AUG-2010 23:11	0810B043.d	5	RH02LCSD:				
10-AUG-2010 23:30	0810B044.d	100	RH02B				
10-AUG-2010 23:49	0810B045.d	100	RH02C				
11-AUG-2010 00:07	0810B046.d	100	RH02L				
11-AUG-2010 00:26	0810B047.d	100	RH02LMS				
11-AUG-2010 00:45	0810B048.d	100	RH02LMSD				
11-AUG-2010 01:04	0810B049.d	1	AR1242				
11-AUG-2010 01:23	0810B050.d	1	AR1660				

Handwritten signature

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 very line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B013.d
Data file 2: 20100806.b/0810-2.b/0810B013.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 10-AUG-2010 13:21
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	RT	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.570	-0.001 10816125	3.707	-0.001 19851568	17.9	20.2	11.9	Tetrachloro-m-xylene
11.753	0.001 11497691	12.282	0.001 19606622	17.4	20.3	15.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	44.8	50.5
Decachlorobiphenyl	43.5	50.8

10/11/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	29573405	-16.9
Hexabromobiphenyl	47117515	32840711	-30.3

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	70088187	-10.5
Hexabromobiphenyl	74720444	53052610	-29.0

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.072	-0.001	3566000	249.5	1	5.347	-0.001	9480223	258.3	
Aroclor-1016	2	5.491	-0.003	11698701	250.4	2	5.993	-0.001	19540752	247.2	
Aroclor-1016	3	5.647	-0.002	4707156	242.5	3	6.207	0.000	8704353	274.1	
Aroclor-1016	4	5.762	-0.001	3276327	245.1	4	7.487	0.001	4410628	299.1	
Total CollAve (4 peaks):				246.9		Total Col2Ave (4 peaks):				269.7	RPD = 9
Corrected Ave (3 peaks):				245.7		Corrected Ave (3 peaks):				259.8	RPD = 6
Aroclor-1221	1	3.865	-0.002	604358	101.0	1	4.289	0.000	1297528	121.0	
Aroclor-1221	2	4.022	0.000	746763	172.6	2	4.520	-0.002	1153855	178.8	
Aroclor-1221	3	4.112	-0.002	2693096	194.2	3	4.630	-0.002	4251679	210.9	
Aroclor-1221	NS	---	---	---	---	4	5.241	-0.002	426268	220.4	
Total CollAve (3 peaks):				155.9		Total Col2Ave (4 peaks):				182.8	RPD = 16
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				170.2	
Aroclor-1232	1	5.072	-0.001	3566000	564.6	1	5.347	-0.004	9480223	540.8	
Aroclor-1232	2	5.491	-0.002	11698701	572.7	2	5.993	-0.002	19540752	560.9	
Aroclor-1232	3	5.647	-0.002	4707156	554.3	3	6.207	-0.002	8704353	627.7	
Aroclor-1232	4	7.144	-0.002	603584	93.2	4	7.767	-0.003	2035637	159.8	
Total CollAve (4 peaks):				446.2		Total Col2Ave (4 peaks):				472.3	RPD = 6
Corrected Ave (3 peaks):				404.0		Corrected Ave (3 peaks):				420.5	RPD = 4
Aroclor-1242	1	5.072	-0.002	3566000	325.4	1	5.347	0.000	9480223	340.1	
Aroclor-1242	2	5.491	-0.004	11698701	327.1	2	5.993	0.000	19540752	327.1	
Aroclor-1242	3	5.647	-0.003	4707156	317.3	3	6.207	0.000	8704353	361.2	
Aroclor-1242	4	7.144	0.002	603584	47.0	4	7.767	-0.001	2035637	80.2	
Total CollAve (4 peaks):				254.2		Total Col2Ave (4 peaks):				277.1	RPD = 9
Corrected Ave (3 peaks):				229.9		Corrected Ave (3 peaks):				249.1	RPD = 8
Aroclor-1248	1	6.003	-0.001	2991976	188.4	1	6.482	0.001	5884282	207.9	
Aroclor-1248	2	6.308	0.000	3628157	198.9	2	6.901	0.001	6594175	200.7	
Aroclor-1248	3	6.854	-0.001	798685	37.2	3	7.422	0.000	1023708	31.2	
Aroclor-1248	4	7.144	0.002	603584	29.5	4	7.767	-0.001	2035637	48.1	
Total CollAve (4 peaks):				113.5		Total Col2Ave (4 peaks):				122.0	RPD = 7
Corrected Ave (3 peaks):				85.0		Corrected Ave (3 peaks):				93.3	RPD = 9
Aroclor-1254	1	6.917	0.000	2728472	113.4	1	7.487	0.001	4410628	132.8	
Aroclor-1254	2	7.226	0.002	2316325	68.9	2	7.650	0.000	5391069	118.4	
Aroclor-1254	3	7.591	0.000	547657	24.2	3	8.173	0.003	1560226	45.5	
Aroclor-1254	4	7.721	-0.004	1324710	31.6	4	8.353	0.035	11742779	156.2	
Aroclor-1254	5	8.410	-0.010	2456678	83.1	5	9.098	0.016	4817937	105.2	
Total CollAve (5 peaks):				64.3		Total Col2Ave (5 peaks):				111.6	RPD = 54*
Corrected Ave (4 peaks):				52.0		Corrected Ave (4 peaks):				100.5	RPD = 64*
Aroclor-1260	1	8.962	0.000	7943491	286.9	1	9.398	0.001	15554598	299.6	
Aroclor-1260	2	9.272	0.000	7478756	284.3	2	10.105	0.001	26920413	228.5	
Aroclor-1260	3	9.634	0.000	18448222	279.8	3	10.675	0.001	18499227	237.3	
Aroclor-1260	4	10.025	0.000	9134400	279.2	4	11.395	0.001	10045956	304.0	
Aroclor-1260	5	10.210	0.000	5108265	271.8	NS	---	---	---	---	
Total CollAve (5 peaks):				280.4		Total Col2Ave (4 peaks):				267.4	RPD = 5
Corrected Ave (4 peaks):				278.8		Corrected Ave (3 peaks):				255.2	RPD = 9
Aroclor-1262	1	8.962	-0.001	7943491	213.7	1	9.398	-0.002	15554598	225.3	
Aroclor-1262	2	9.272	-0.001	7478756	243.7	2	9.844	-0.002	15882964	278.3	
Aroclor-1262	3	9.634	0.000	18448222	274.0	3	10.616	0.000	11049581	177.5	
Aroclor-1262	4	10.138	0.000	4334535	130.3	4	11.266	-0.001	5195024	219.8	
Aroclor-1262	5	10.210	-0.002	5108265	152.8	5	11.395	-0.001	10045956	211.0	
Total CollAve (5 peaks):				202.9		Total Col2Ave (5 peaks):				222.4	RPD = 9
Corrected Ave (4 peaks):				185.1		Corrected Ave (4 peaks):				208.4	RPD = 12
Aroclor-1268	1	10.138	0.000	4334535	52.9	1	10.616	-0.001	11049581	75.7	
Aroclor-1268	2	10.210	0.001	5108265	59.6	2	10.675	-0.007	18499227	132.2	
Aroclor-1268	3	10.602	0.016	2360073	37.7	3	11.075	0.002	1875996	18.3	
Aroclor-1268	4	11.348	-0.005	689919	5.2	4	11.874	-0.002	2196594	8.3	
Total CollAve (4 peaks):				38.8		Total Col2Ave (4 peaks):				58.6	RPD = 41*
Corrected Ave (3 peaks):				31.9		Corrected Ave (3 peaks):				34.1	RPD = 7

Total PCB Area Col1 (3.671 - 11.652) = 194760252

Col1 Total PCB = 0.5 ppm*

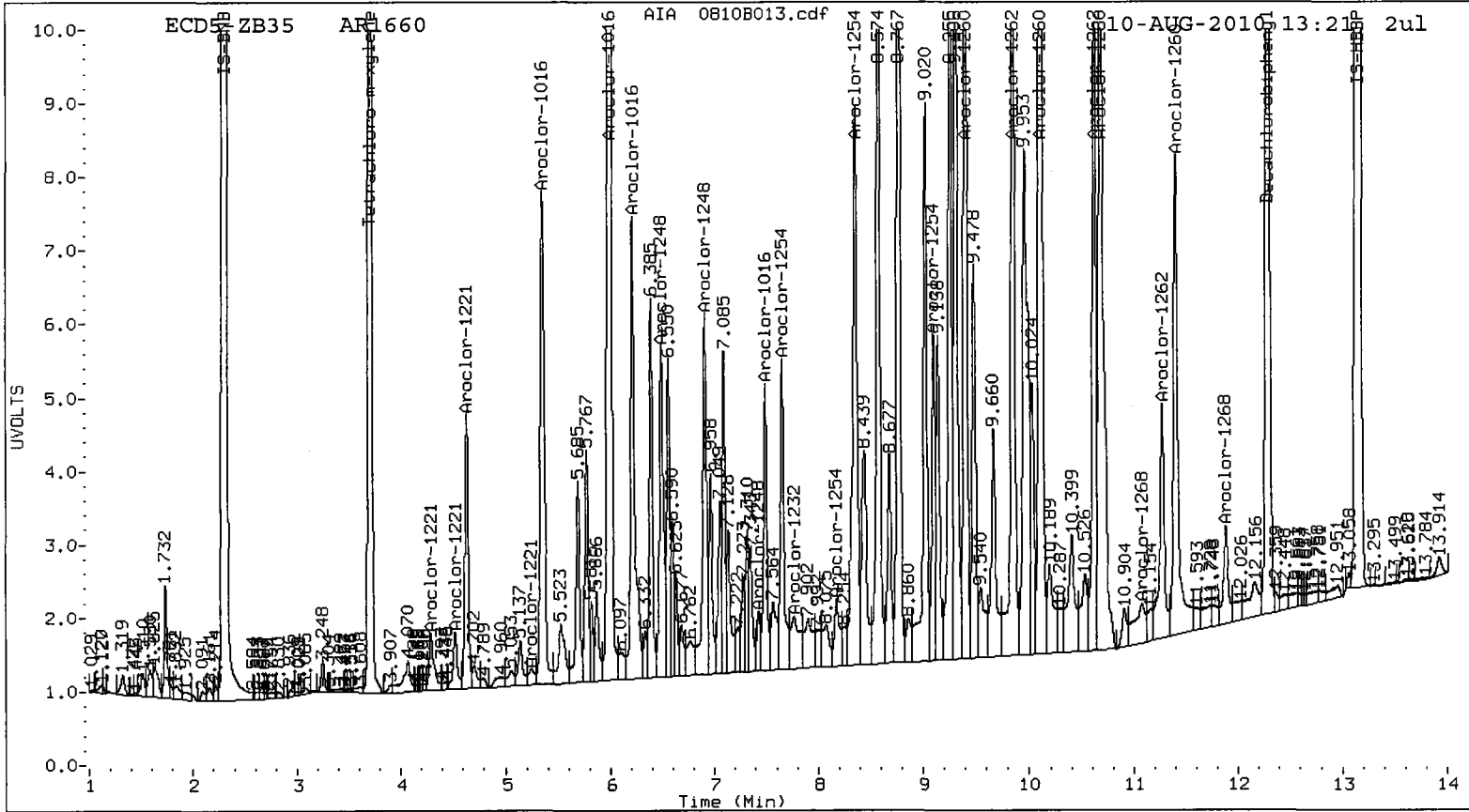
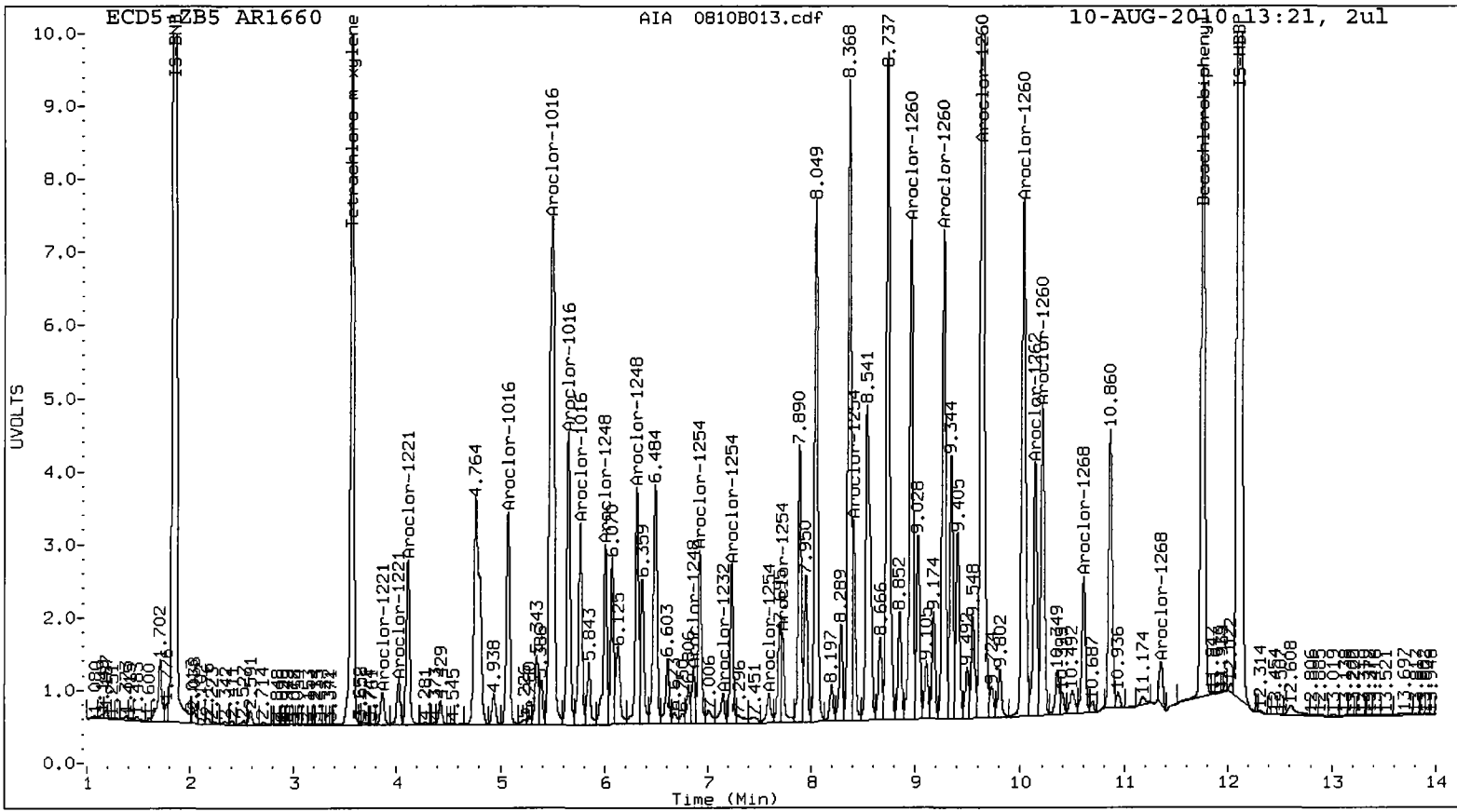
Total PCB Area Col2 (3.807 - 12.181) = 380397166

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 01032



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B016.d
Data file 2: 20100806.b/0810-2.b/0810B016.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 10-AUG-2010 14:18
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.570	-0.001	12066127	3.705	-0.003	20626462	18.3	19.4	5.4	Tetrachloro-m-xylene
11.752	0.000	13027938	12.280	-0.001	21487602	17.5	19.5	11.0	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	45.8	48.4
Decachlorobiphenyl	43.7	48.7

08/11/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	32243677	-9.4
Hexabromobiphenyl	47117515	37035415	-21.4

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	75962352	-3.0
Hexabromobiphenyl	74720444	60585635	-18.9

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

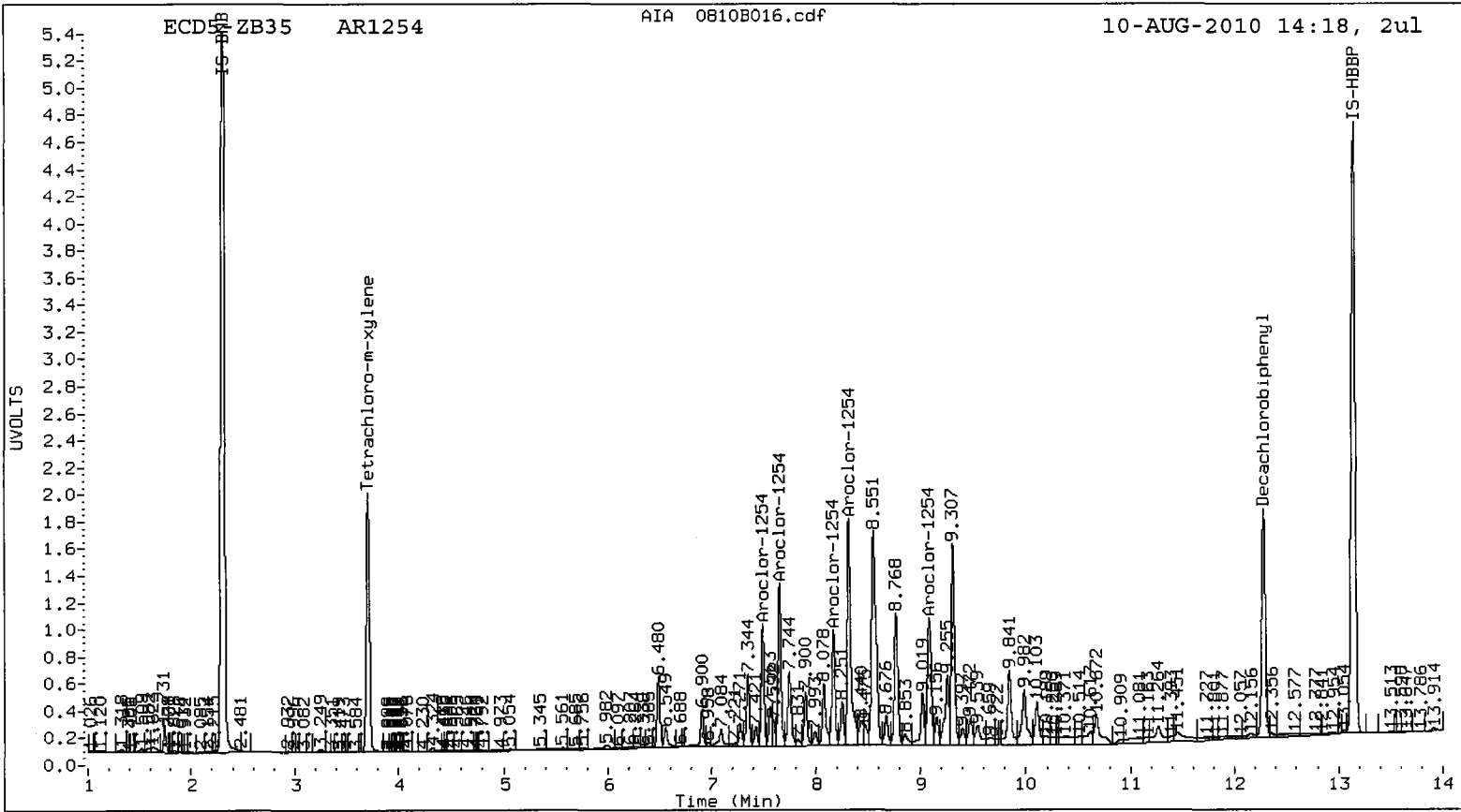
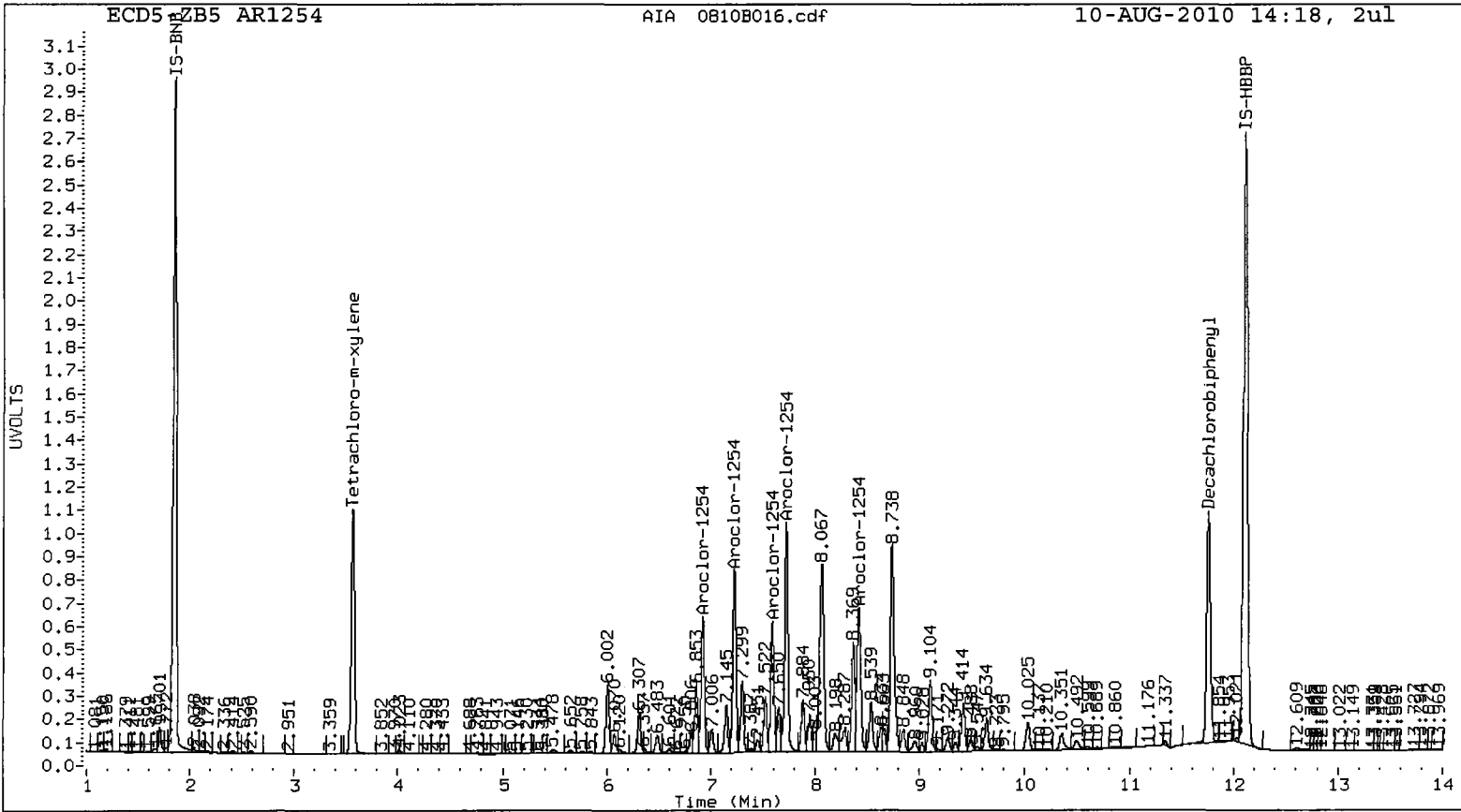
ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	6.917	0.000	6468249	246.6	1	7.486	0.000	9012299	250.3
Aroclor-1254	2	7.223	-0.001	8812206	240.6	2	7.649	-0.001	12421040	251.6
Aroclor-1254	3	7.590	-0.001	6148865	249.7	3	8.170	0.000	8704546	234.5
Aroclor-1254	4	7.725	-0.001	11217780	245.7	4	8.316	-0.001	20587174	252.6
Aroclor-1254	5	8.421	0.000	7959241	246.9	5	9.083	0.001	12850725	258.8
Total Col1Ave (5 peaks):				245.9	Total Col2Ave (5 peaks):				249.6	RPD = 1
Corrected Ave (4 peaks):				245.0	Corrected Ave (4 peaks):				247.3	RPD = 1

Total PCB Area Col1 (3.671 - 11.652) = 122731123 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (3.807 - 12.181) = 239221092 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B017.d
Data file 2: 20100806.b/0810-2.b/0810B017.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: RF71MBS1
Client ID: RF71MBS1
Injection Date: 10-AUG-2010 15:02
Ical Date: 06-AUG-2010
Matrix: SOIL
Dilution Factor: 5.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.575	0.005 3820404	3.697 -0.011 6386378	11.759	6.8	7.3	7.7	Tetrachloro-m-xylene
	0.006 5174434	12.280 -0.001 7881186		8.0	9.0	11.4	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	84.7	91.5
Decachlorobiphenyl	100.3	112.4

11/11/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	27619743	-22.4
Hexabromobiphenyl	47117515	32022651	-32.0

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	62202505	-20.6
Hexabromobiphenyl	74720444	48163311	-35.5

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.074	0.000	31315	2.3	1	5.344	-0.003	667670	20.5	
Aroclor-1016	2	5.496	0.003	73452	1.7	2	6.006	0.012	272492	3.9	
Aroclor-1016	3	5.678	0.029	134852	7.4	3	6.243	0.037	724784	25.7	
Aroclor-1016	4	5.752	-0.011	156046	12.5	4	7.486	-0.001	320419	24.5	
Total CollAve (4 peaks):				6.0		Total Col2Ave (4 peaks):				18.6	RPD = 103*
Corrected Ave (3 peaks):				3.8		Corrected Ave (3 peaks):				16.3	RPD = 124*
Aroclor-1221	1	3.834	-0.033	13876	2.5	1	4.318	0.029	295027	31.0	
Aroclor-1221	2	4.029	0.007	65814	16.3	2	4.511	-0.011	93613	16.3	
Aroclor-1221	3	4.129	0.016	11834	0.9	3	4.645	0.013	136284	7.6	
Aroclor-1221	NS	---	---	---	---	4	---	---	---	0.0	
Total CollAve (3 peaks):				6.6		Total Col2Ave (3 peaks):				18.3	RPD = 95*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks					
Aroclor-1232	1	5.074	0.000	31315	5.3	1	5.344	-0.006	667670	42.9	
Aroclor-1232	2	5.496	0.003	73452	3.9	2	6.006	0.011	272492	8.8	
Aroclor-1232	3	5.678	0.029	134852	17.0	3	6.243	0.035	724784	58.9	
Aroclor-1232	4	7.118	-0.027	2272461	375.7	4	7.694	-0.076	3496049	309.3	
Total CollAve (4 peaks):				100.5		Total Col2Ave (4 peaks):				105.0	RPD = 4
Corrected Ave (3 peaks):				8.7		Corrected Ave (3 peaks):				36.9	RPD = 123*
Aroclor-1242	1	5.074	-0.001	31315	3.1	1	5.344	-0.002	667670	27.0	
Aroclor-1242	2	5.496	0.001	73452	2.2	2	6.006	0.013	272492	5.1	
Aroclor-1242	3	5.678	0.028	134852	9.7	3	6.243	0.036	724784	33.9	
Aroclor-1242	4	7.118	-0.024	2272461	189.7	4	7.694	-0.073	3496049	155.2	
Total CollAve (4 peaks):				51.2		Total Col2Ave (4 peaks):				55.3	RPD = 8
Corrected Ave (3 peaks):				5.0		Corrected Ave (3 peaks):				22.0	RPD = 126*
Aroclor-1248	1	6.033	0.029	26956	1.8	1	6.470	-0.012	721609	28.7	
Aroclor-1248	2	6.316	0.007	60645	3.6	2	6.850	-0.050	834117	28.6	
Aroclor-1248	3	6.871	0.017	47390	2.4	3	7.486	0.064	320419	11.0	
Aroclor-1248	4	7.118	-0.024	2272461	118.9	4	7.694	-0.073	3496049	93.0	
Total CollAve (4 peaks):				31.7		Total Col2Ave (4 peaks):				40.3	RPD = 24
Corrected Ave (3 peaks):				2.6		Corrected Ave (3 peaks):				22.8	RPD = 159*
Aroclor-1254	1	6.918	0.000	120227	5.4	1	7.486	-0.001	320419	10.9	
Aroclor-1254	2	---	---	---	0.0	2	7.694	0.044	3496049	86.5	
Aroclor-1254	3	7.620	0.029	216227	10.2	3	8.253	0.083	1414909	46.5	
Aroclor-1254	4	7.717	-0.008	164707	4.2	4	---	---	---	0.0	
Aroclor-1254	5	8.423	0.002	53352	1.9	5	9.070	-0.013	691235	17.0	
Total CollAve (4 peaks):				5.4		Total Col2Ave (4 peaks):				40.2	RPD = 152*
Corrected Ave (3 peaks):				3.8		Corrected Ave (3 peaks):				24.8	RPD = 146*
Aroclor-1260	1	8.976	0.014	151577	5.6	1	9.418	0.020	2606409	55.3	
Aroclor-1260	2	9.283	0.011	623777	24.3	2	10.182	0.079	1952087	18.3	
Aroclor-1260	3	9.677	0.042	187737	2.9	3	---	---	---	0.0	
Aroclor-1260	4	10.029	0.005	29170	0.9	4	11.451	0.057	2402650	80.1	
Aroclor-1260	5	10.161	-0.049	11994	0.7	NS	---	---	---	---	
Total CollAve (5 peaks):				6.9		Total Col2Ave (3 peaks):				51.2	RPD = 153*
Corrected Ave (4 peaks):				2.5		Corrected Ave: < 3 Peaks					
Aroclor-1262	1	8.976	0.013	151577	4.2	1	9.418	0.018	2606409	41.6	
Aroclor-1262	2	9.283	0.011	623777	20.8	2	9.835	-0.011	1994691	38.5	
Aroclor-1262	3	9.677	0.042	187737	2.9	3	10.567	-0.049	2801172	49.6	
Aroclor-1262	4	10.161	0.022	11994	0.4	4	11.262	-0.004	2269519	105.8	
Aroclor-1262	5	---	---	---	0.0	5	11.451	0.055	2402650	55.6	
Total CollAve (4 peaks):				7.1		Total Col2Ave (5 peaks):				58.2	RPD = 157*
Corrected Ave (3 peaks):				2.5		Corrected Ave (4 peaks):				46.3	RPD = 180*
Aroclor-1268	1	10.161	0.022	11994	0.2	1	10.567	-0.051	2801172	21.1	
Aroclor-1268	2	---	---	---	0.0	2	---	---	---	0.0	
Aroclor-1268	3	10.498	-0.088	526028	8.6	3	11.130	0.057	4245267	45.7	
Aroclor-1268	4	11.353	0.000	96100	0.7	4	---	---	---	0.0	
Total CollAve (3 peaks):				3.2		Col2Ave: <3 Quant Peaks					

Total PCB Area Col1 (3.671 - 11.652) = 12894649

Col1 Total PCB = 0.0 ppm*

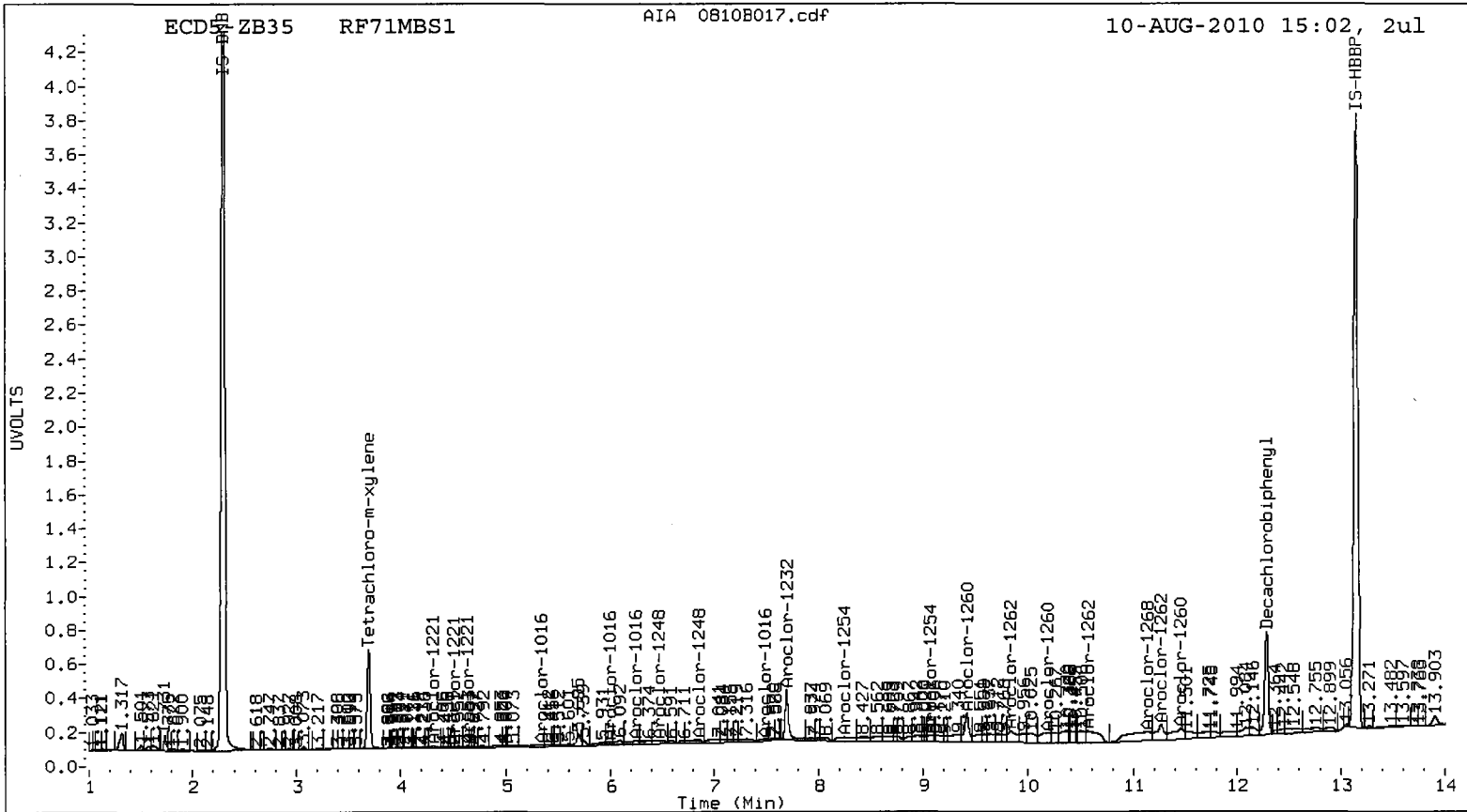
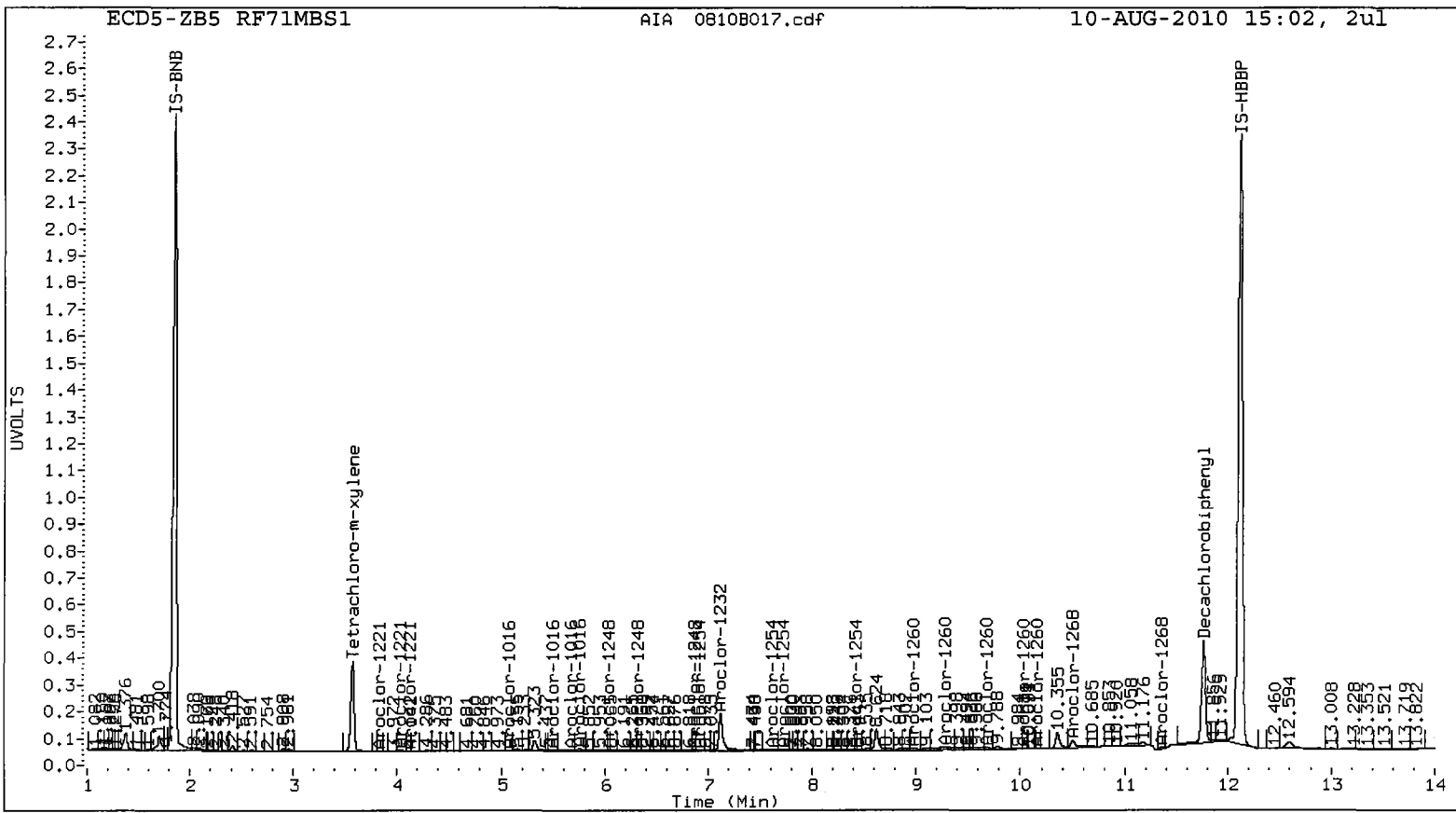
Total PCB Area Col2 (3.807 - 12.181) = 66715098

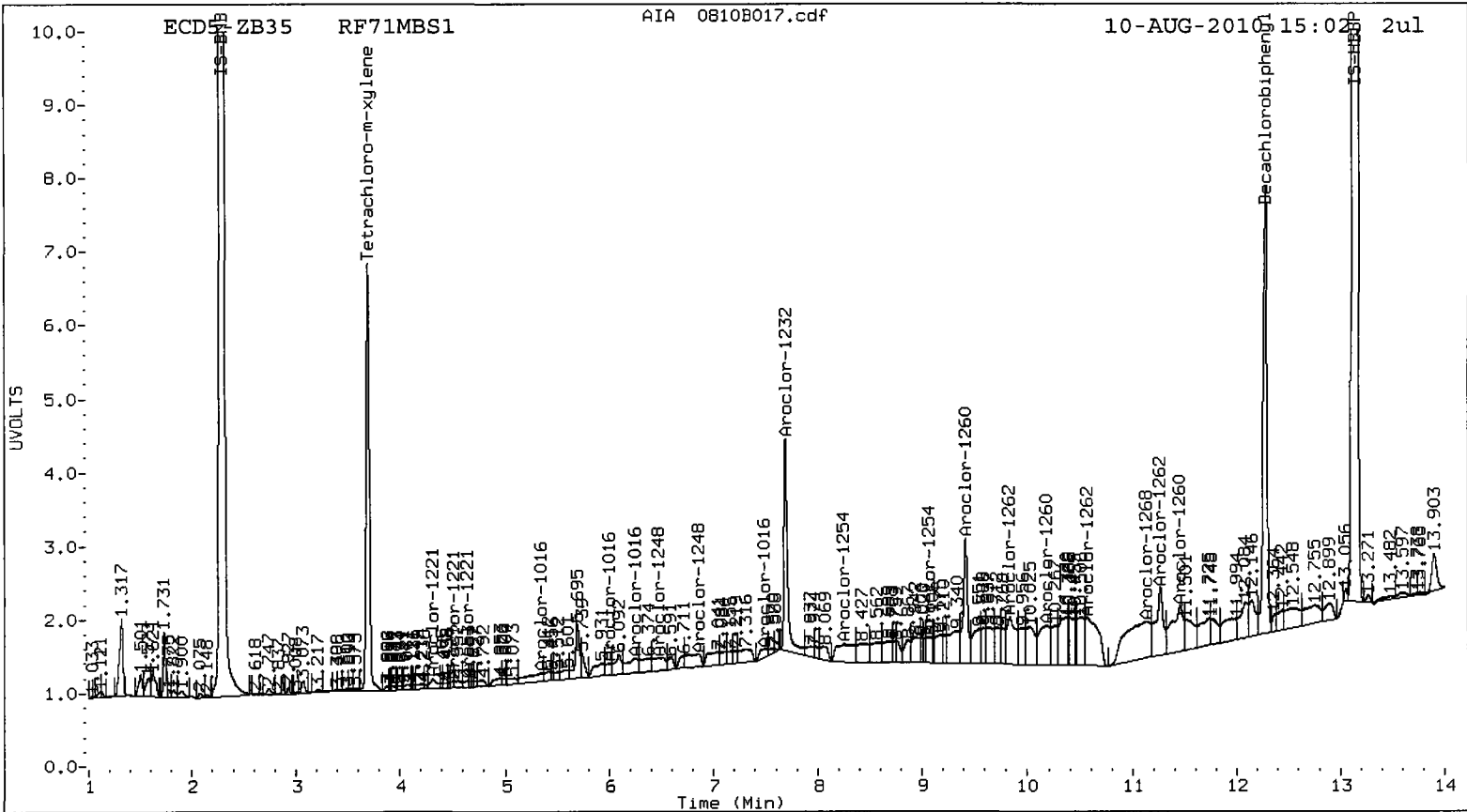
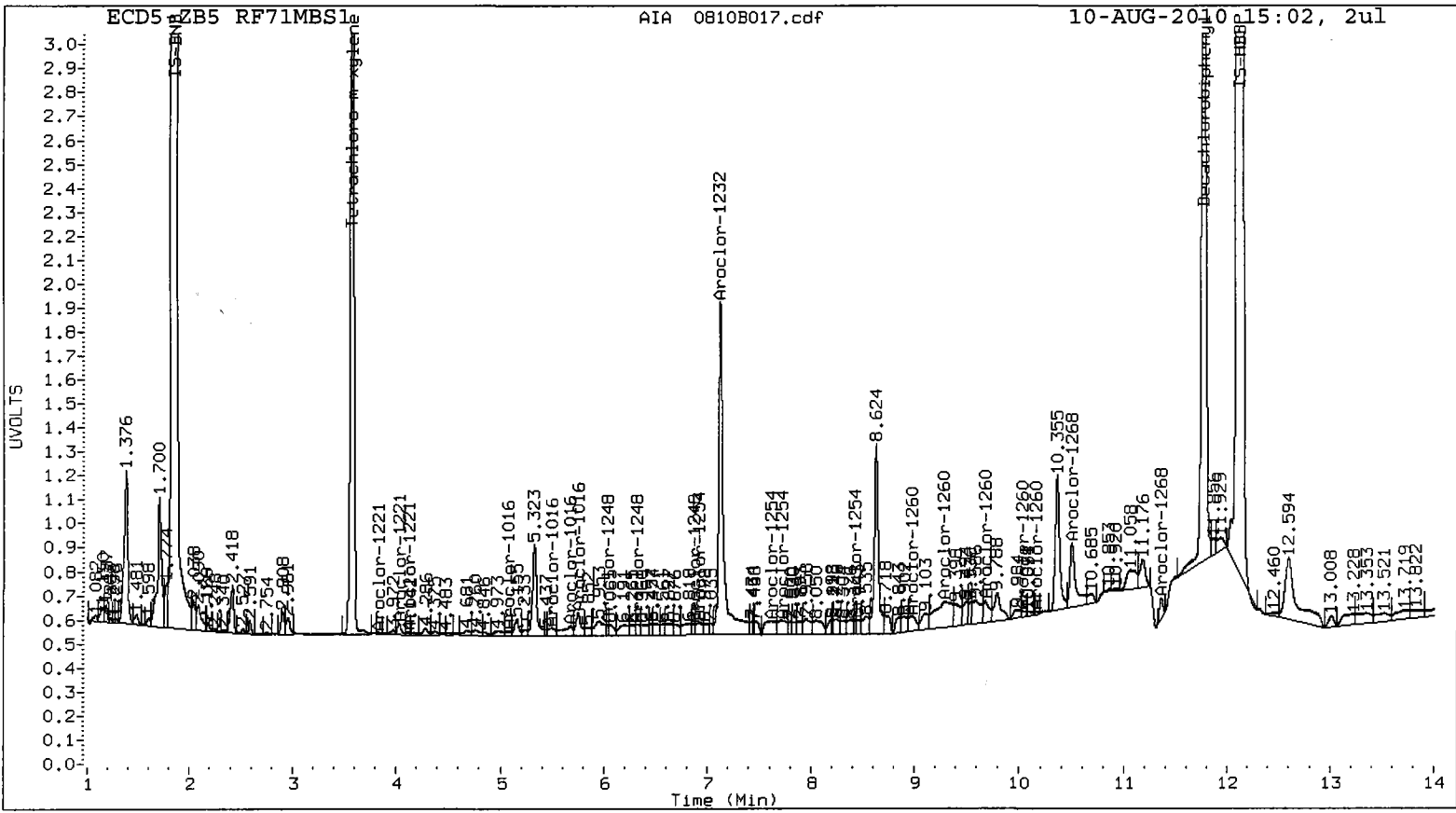
Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF 71 : 01040





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B018.d
Data file 2: 20100806.b/0810-2.b/0810B018.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: RF71LCSS1
Client ID: RF71LCSS1
Injection Date: 10-AUG-2010 15:20
Ical Date: 06-AUG-2010
Matrix: SOIL
Dilution Factor: 5.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.571	0.001 3588136	3.706 -0.001 6115216	3.706	6.4	7.5	15.2	Tetrachloro-m-xylene
11.755	0.002 4844372	12.282 0.001 7456544	12.282	7.7	8.6	10.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	80.0	93.2
Decachlorobiphenyl	96.5	107.6

7/8/10/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	27459814	-22.9
Hexabromobiphenyl	47117515	31164399	-33.9

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	58452101	-25.4
Hexabromobiphenyl	74720444	47608014	-36.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.073	-0.001	1323621	99.7	1	5.346	-0.002	3489835	114.0	
Aroclor-1016	2	5.492	-0.001	4491443	103.5	2	5.992	-0.002	7456180	113.1	
Aroclor-1016	3	5.649	0.000	1835530	101.8	3	6.206	-0.001	3265975	123.3	
Aroclor-1016	4	5.763	0.000	1293228	104.2	4	7.487	0.001	2036765	165.6	
Total CollAve (4 peaks):				102.2	Total Col2Ave (4 peaks):				129.2	RPD = 23	
Corrected Ave (3 peaks):				101.7	Corrected Ave (3 peaks):				118.8	RPD = 14	
Aroclor-1221	1	3.867	0.000	177747	32.0	1	4.291	0.002	283032	31.6	
Aroclor-1221	2	4.023	0.001	231429	57.6	2	4.520	-0.002	313397	58.2	
Aroclor-1221	3	4.114	0.000	926810	72.0	3	4.631	-0.002	1389286	82.6	
Aroclor-1221	NS	---	---	---	---	4	5.243	0.000	149939	93.0	
Total CollAve (3 peaks):				53.9	Total Col2Ave (4 peaks):				66.4	RPD = 21	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				57.5		
Aroclor-1232	1	5.073	0.000	1323621	225.7	1	5.346	-0.004	3489835	238.7	
Aroclor-1232	2	5.492	0.000	4491443	236.8	2	5.992	-0.003	7456180	256.6	
Aroclor-1232	3	5.649	0.000	1835530	232.8	3	6.206	-0.003	3265975	282.4	
Aroclor-1232	4	7.116	-0.029	1186561	197.3	4	7.700	-0.070	3729741	351.1	
Total CollAve (4 peaks):				223.2	Total Col2Ave (4 peaks):				282.2	RPD = 23	
Corrected Ave (3 peaks):				218.6	Corrected Ave (3 peaks):				259.3	RPD = 17	
Aroclor-1242	1	5.073	-0.002	1323621	130.1	1	5.346	0.000	3489835	150.1	
Aroclor-1242	2	5.492	-0.002	4491443	135.2	2	5.992	-0.001	7456180	149.7	
Aroclor-1242	3	5.649	-0.001	1835530	133.3	3	6.206	-0.001	3265975	162.5	
Aroclor-1242	4	7.116	-0.026	1186561	99.6	4	7.700	-0.068	3729741	176.1	
Total CollAve (4 peaks):				124.5	Total Col2Ave (4 peaks):				159.6	RPD = 25	
Corrected Ave (3 peaks):				121.0	Corrected Ave (3 peaks):				154.1	RPD = 24	
Aroclor-1248	1	6.004	0.000	1215890	82.5	1	6.481	0.000	2333420	98.8	
Aroclor-1248	2	6.310	0.001	1392932	82.3	2	6.900	0.000	2707235	98.8	
Aroclor-1248	3	6.855	0.001	254115	12.7	3	7.423	0.001	458840	16.8	
Aroclor-1248	4	7.116	-0.026	1186561	62.5	4	7.700	-0.068	3729741	105.6	
Total CollAve (4 peaks):				60.0	Total Col2Ave (4 peaks):				80.0	RPD = 29	
Corrected Ave (3 peaks):				52.5	Corrected Ave (3 peaks):				71.5	RPD = 31	
Aroclor-1254	1	6.918	0.001	1200029	53.7	1	7.487	0.001	2036765	73.5	
Aroclor-1254	2	7.227	0.003	1527325	49.0	2	7.650	0.000	2250752	59.3	
Aroclor-1254	3	7.592	0.001	311197	14.8	3	8.171	0.001	986994	34.5	
Aroclor-1254	4	7.725	0.000	791509	20.4	4	8.353	0.035	5587807	89.1	
Aroclor-1254	5	8.411	-0.009	1232519	44.9	5	9.097	0.015	2446312	64.0	
Total CollAve (5 peaks):				36.6	Total Col2Ave (5 peaks):				64.1	RPD = 55*	
Corrected Ave (4 peaks):				32.3	Corrected Ave (4 peaks):				57.8	RPD = 57*	
Aroclor-1260	1	8.964	0.001	2788566	106.1	1	9.398	0.001	5667781	121.7	
Aroclor-1260	2	9.274	0.002	2731237	109.4	2	10.103	0.000	11216322	106.1	
Aroclor-1260	3	9.636	0.002	6917517	110.5	3	10.676	0.001	8408546	120.2	
Aroclor-1260	4	10.027	0.002	3658231	117.8	4	11.394	0.000	3347122	112.9	
Aroclor-1260	5	10.212	0.003	1733270	97.2	NS	---	---	---	---	
Total CollAve (5 peaks):				108.2	Total Col2Ave (4 peaks):				115.2	RPD = 6	
Corrected Ave (4 peaks):				105.8	Corrected Ave (3 peaks):				113.1	RPD = 7	
Aroclor-1262	1	8.964	0.001	2788566	79.1	1	9.398	-0.002	5667781	91.5	
Aroclor-1262	2	9.274	0.001	2731237	93.8	2	9.844	-0.002	6610473	129.1	
Aroclor-1262	3	9.636	0.001	6917517	108.2	3	10.616	0.000	4443879	79.6	
Aroclor-1262	4	10.140	0.002	1529935	48.5	4	11.265	-0.002	3737086	176.2	
Aroclor-1262	5	10.212	0.001	1733270	54.6	5	11.394	-0.002	3347122	78.3	
Total CollAve (5 peaks):				76.8	Total Col2Ave (5 peaks):				110.9	RPD = 36	
Corrected Ave (4 peaks):				69.0	Corrected Ave (4 peaks):				94.6	RPD = 31	
Aroclor-1268	1	10.140	0.002	1529935	19.7	1	10.616	-0.001	4443879	33.9	
Aroclor-1268	2	10.212	0.004	1733270	21.3	2	10.676	-0.007	8408546	67.0	
Aroclor-1268	3	10.604	0.017	906951	15.3	3	11.072	-0.001	1866671	20.3	
Aroclor-1268	4	11.348	-0.005	458330	3.6	4	11.873	-0.002	1122796	4.7	
Total CollAve (4 peaks):				15.0	Total Col2Ave (4 peaks):				31.5	RPD = 71*	
Corrected Ave (3 peaks):				12.9	Corrected Ave (3 peaks):				19.7	RPD = 42*	

Total PCB Area Col1 (3.671 - 11.652) = 79222521

Col1 Total PCB = 0.2 ppm*

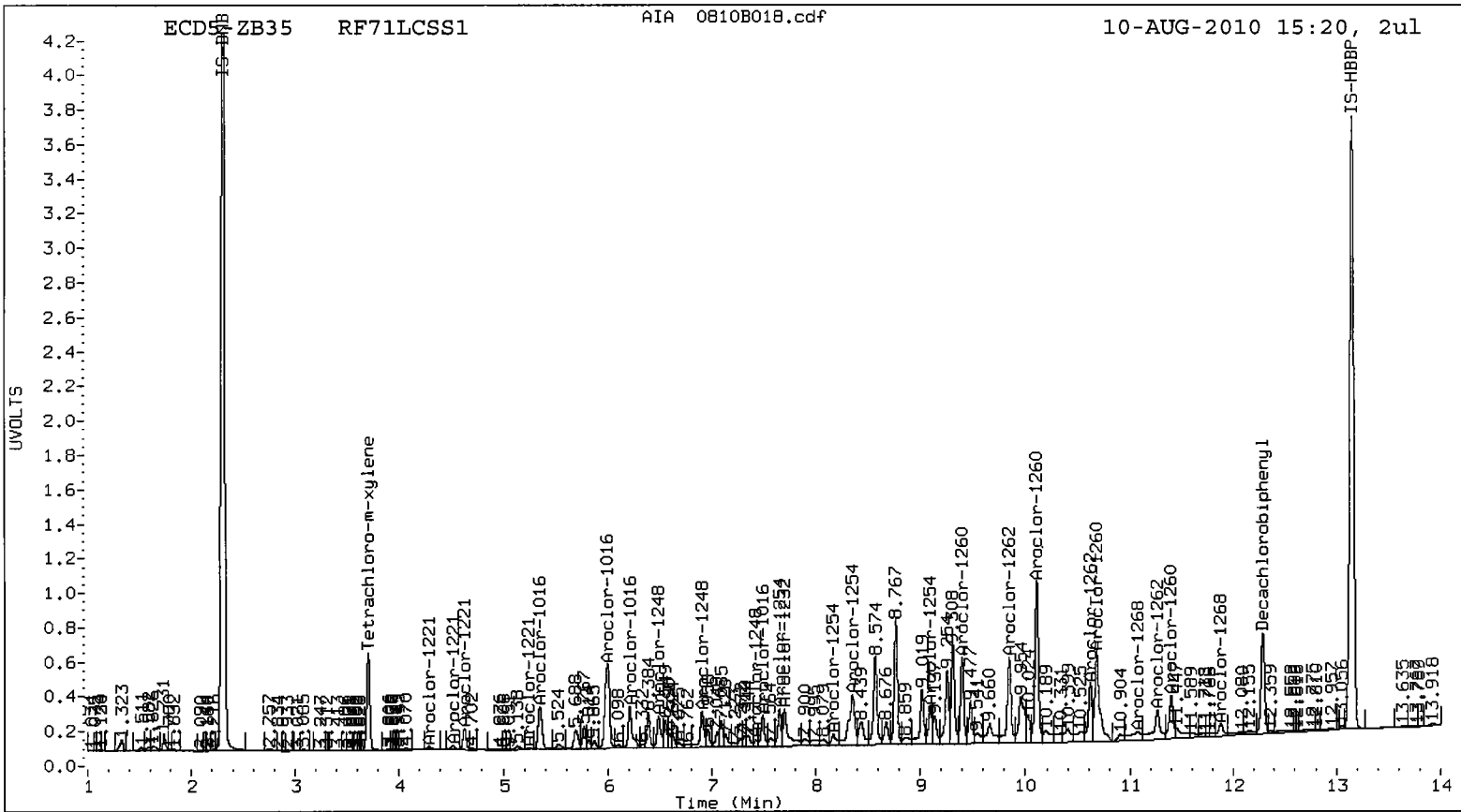
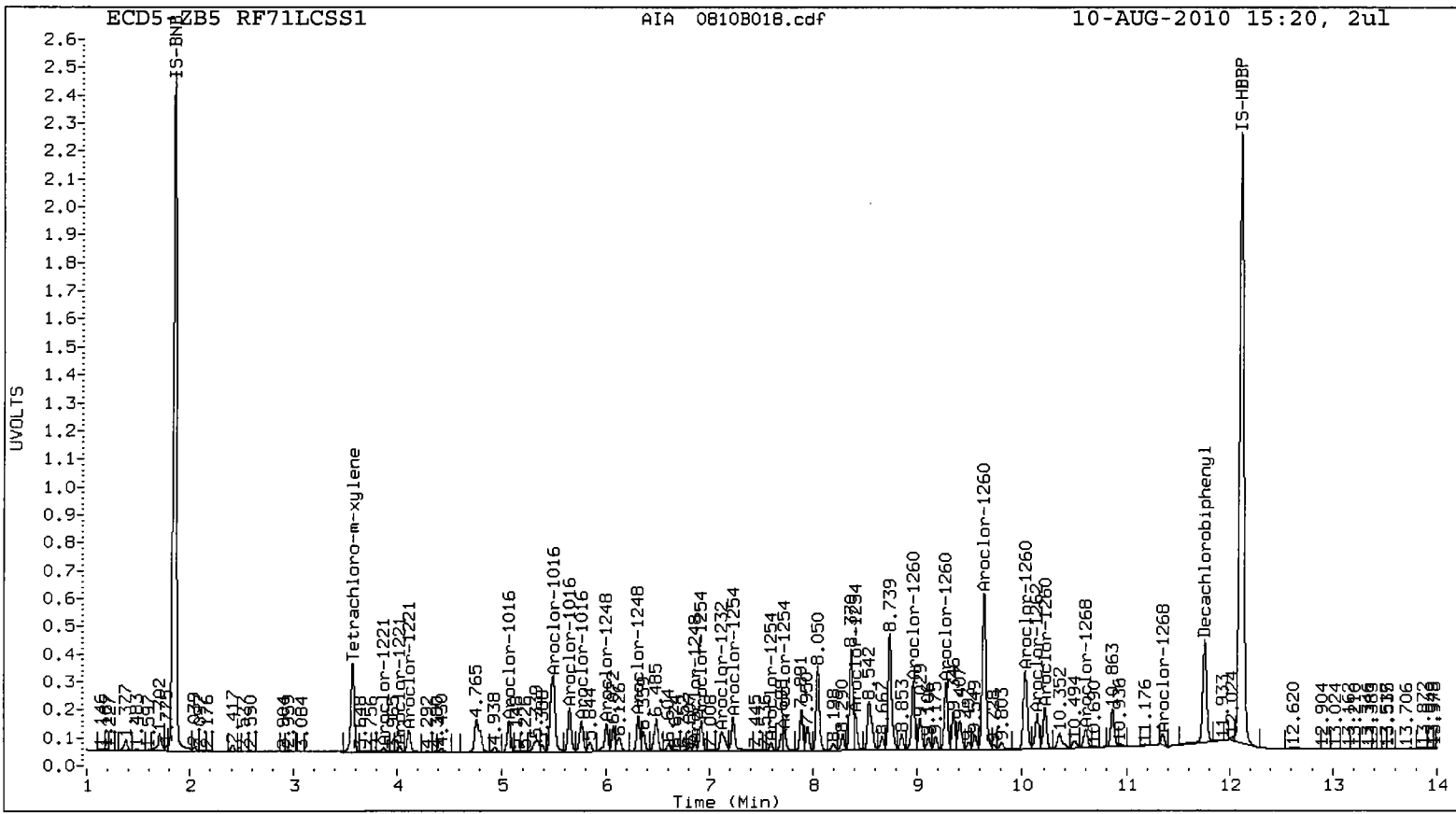
Total PCB Area Col2 (3.807 - 12.181) = 168421368

Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71 : 01045



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B019.d
Data file 2: 20100806.b/0810-2.b/0810B019.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: RF71LCSDS1
Client ID: RF71LCSDS1
Injection Date: 10-AUG-2010 15:39
Ical Date: 06-AUG-2010
Matrix: SOIL
Dilution Factor: 5.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.572	0.001 3933627	3.707 0.000 6841457	3.707	6.3	8.1	23.9	Tetrachloro-m-xylene
11.754	0.002 5074261	12.281 0.000 7994126	12.281	7.5	8.7	15.3	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	79.2	100.7
Decachlorobiphenyl	93.8	109.3

8/14/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	30417825	-14.5
Hexabromobiphenyl	47117515	33574918	-28.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	60515264	-22.8
Hexabromobiphenyl	74720444	50232192	-32.8

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.073	0.000	1530955	104.2	1	5.346	-0.002	4012374	126.6	
Aroclor-1016	2	5.492	-0.001	5136182	106.9	2	5.993	-0.001	8516017	124.8	
Aroclor-1016	3	5.649	0.000	2088781	104.6	3	6.207	0.000	3653578	133.3	
Aroclor-1016	4	5.762	-0.001	1454257	105.7	4	7.486	0.000	2230797	175.2	
Total CollAve (4 peaks):					105.3	Total Col2Ave (4 peaks):					140.0
Corrected Ave (3 peaks):					104.8	Corrected Ave (3 peaks):					128.2
										RPD = 28	
										RPD = 20	
Aroclor-1221	1	3.866	-0.001	215628	35.0	1	4.288	-0.001	380978	41.1	
Aroclor-1221	2	4.024	0.002	305982	68.8	2	4.521	-0.001	416071	74.7	
Aroclor-1221	3	4.113	0.000	1082909	75.9	3	4.631	-0.001	1645191	94.5	
Aroclor-1221	NS	---	---	---	---	4	5.243	0.001	167278	100.2	
Total CollAve (3 peaks):					59.9	Total Col2Ave (4 peaks):					77.6
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):					70.1
										RPD = 26	
Aroclor-1232	1	5.073	0.000	1530955	235.7	1	5.346	-0.004	4012374	265.1	
Aroclor-1232	2	5.492	0.000	5136182	244.5	2	5.993	-0.002	8516017	283.1	
Aroclor-1232	3	5.649	0.000	2088781	239.1	3	6.207	-0.002	3653578	305.2	
Aroclor-1232	4	7.113	-0.033	4449753	668.0	4	7.698	-0.072	10947154	995.5	
Total CollAve (4 peaks):					346.8	Total Col2Ave (4 peaks):					462.2
Corrected Ave (3 peaks):					239.8	Corrected Ave (3 peaks):					284.5
										RPD = 29	
										RPD = 17	
Aroclor-1242	1	5.073	-0.001	1530955	135.8	1	5.346	0.000	4012374	166.7	
Aroclor-1242	2	5.492	-0.002	5136182	139.6	2	5.993	0.000	8516017	165.1	
Aroclor-1242	3	5.649	-0.002	2088781	136.9	3	6.207	0.000	3653578	175.6	
Aroclor-1242	4	7.113	-0.030	4449753	337.2	4	7.698	-0.069	10947154	499.4	
Total CollAve (4 peaks):					187.4	Total Col2Ave (4 peaks):					251.7
Corrected Ave (3 peaks):					137.4	Corrected Ave (3 peaks):					169.1
										RPD = 29	
										RPD = 21	
Aroclor-1248	1	6.004	0.000	1380473	84.5	1	6.481	0.000	2613005	106.9	
Aroclor-1248	2	6.308	0.000	1570615	83.7	2	6.901	0.000	2884225	101.7	
Aroclor-1248	3	6.855	0.001	283574	12.8	3	7.423	0.001	429199	15.2	
Aroclor-1248	4	7.113	-0.029	4449753	211.4	4	7.698	-0.069	10947154	299.4	
Total CollAve (4 peaks):					98.1	Total Col2Ave (4 peaks):					130.8
Corrected Ave (3 peaks):					60.4	Corrected Ave (3 peaks):					74.6
										RPD = 29	
										RPD = 21	
Aroclor-1254	1	6.918	0.001	1343178	54.3	1	7.486	0.000	2230797	77.8	
Aroclor-1254	2	7.227	0.003	2155679	62.4	2	7.649	-0.001	2303611	58.6	
Aroclor-1254	3	7.592	0.001	430511	18.5	3	8.172	0.002	938549	31.7	
Aroclor-1254	4	7.724	-0.001	979026	22.7	4	8.352	0.035	5628759	86.7	
Aroclor-1254	5	8.412	-0.009	1375220	45.2	5	9.097	0.015	2645326	66.9	
Total CollAve (5 peaks):					40.6	Total Col2Ave (5 peaks):					64.3
Corrected Ave (4 peaks):					35.2	Corrected Ave (4 peaks):					58.7
										RPD = 45*	
										RPD = 50*	
Aroclor-1260	1	8.963	0.000	3056304	108.0	1	9.398	0.001	6103613	124.2	
Aroclor-1260	2	9.273	0.001	2999228	111.5	2	10.104	0.001	11399274	102.2	
Aroclor-1260	3	9.635	0.001	7552138	112.0	3	10.675	0.000	8647354	117.2	
Aroclor-1260	4	10.027	0.003	4043773	120.9	4	11.394	0.001	5064387	161.9	
Aroclor-1260	5	10.211	0.002	1949839	101.5	NS	---	---	---	---	
Total CollAve (5 peaks):					110.8	Total Col2Ave (4 peaks):					126.3
Corrected Ave (4 peaks):					108.2	Corrected Ave (3 peaks):					114.5
										RPD = 13	
										RPD = 6	
Aroclor-1262	1	8.963	0.000	3056304	80.4	1	9.398	-0.001	6103613	93.4	
Aroclor-1262	2	9.273	0.000	2999228	95.6	2	9.844	-0.001	6893788	127.6	
Aroclor-1262	3	9.635	0.001	7552138	109.7	3	10.616	0.000	4720382	80.1	
Aroclor-1262	4	10.139	0.001	1706846	50.2	4	11.265	-0.001	3312137	148.0	
Aroclor-1262	5	10.211	0.000	1949839	57.0	5	11.394	-0.002	5064387	112.3	
Total CollAve (5 peaks):					78.6	Total Col2Ave (5 peaks):					112.3
Corrected Ave (4 peaks):					70.8	Corrected Ave (4 peaks):					103.3
										RPD = 35	
										RPD = 37	
Aroclor-1268	1	10.139	0.000	1706846	20.4	1	10.616	-0.001	4720382	34.2	
Aroclor-1268	2	10.211	0.003	1949839	22.3	2	10.675	-0.008	8647354	65.3	
Aroclor-1268	3	10.602	0.016	1002936	15.7	3	11.072	-0.001	2265317	23.4	
Aroclor-1268	4	11.349	-0.005	463607	3.4	4	11.874	-0.001	1152864	4.6	
Total CollAve (4 peaks):					15.4	Total Col2Ave (4 peaks):					31.9
Corrected Ave (3 peaks):					13.1	Corrected Ave (3 peaks):					20.7
										RPD = 69*	
										RPD = 45*	

Total PCB Area Col1 (3.671 - 11.652) = 91648038

Col1 Total PCB = 0.2 ppm*

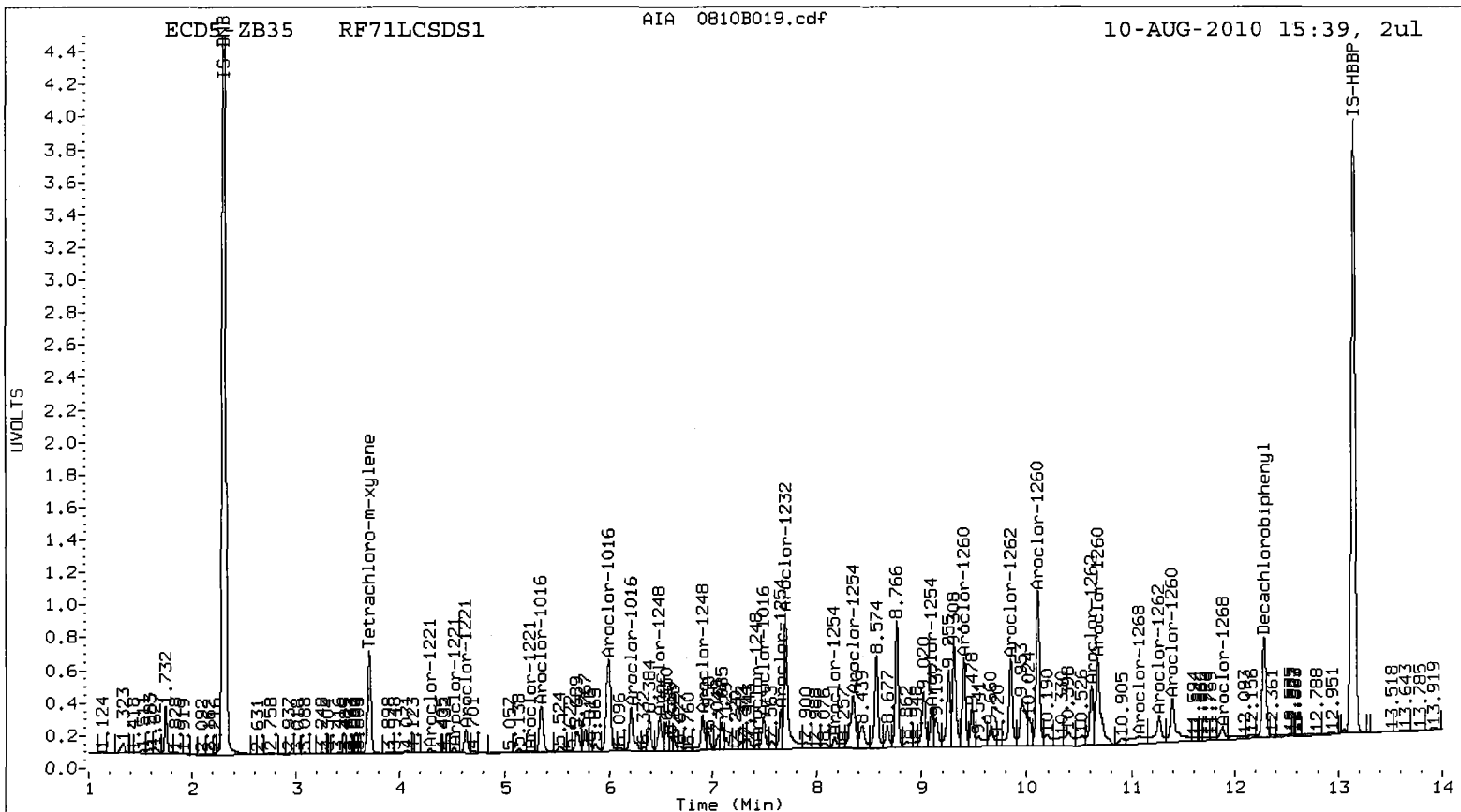
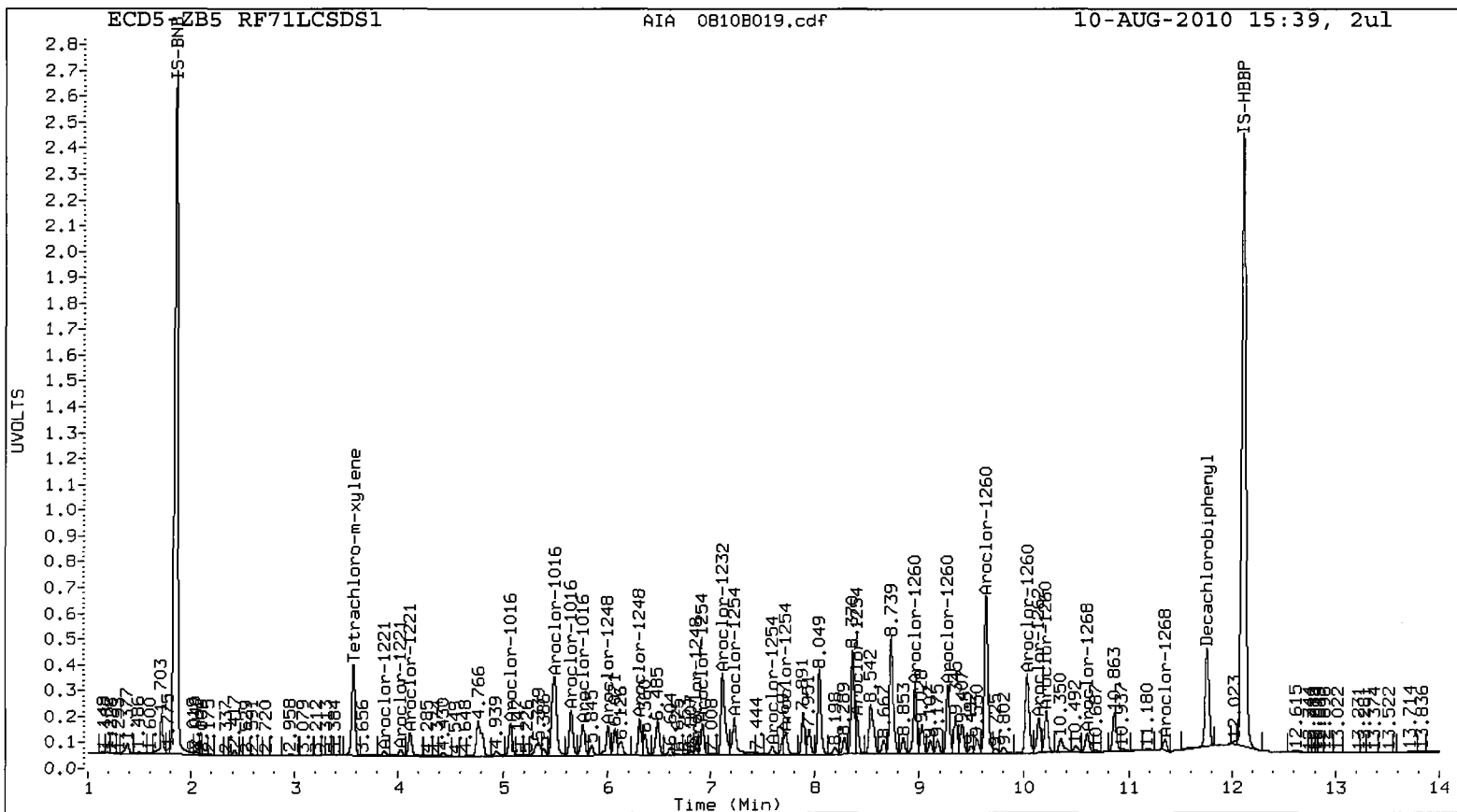
Total PCB Area Col2 (3.807 - 12.181) = 186578709

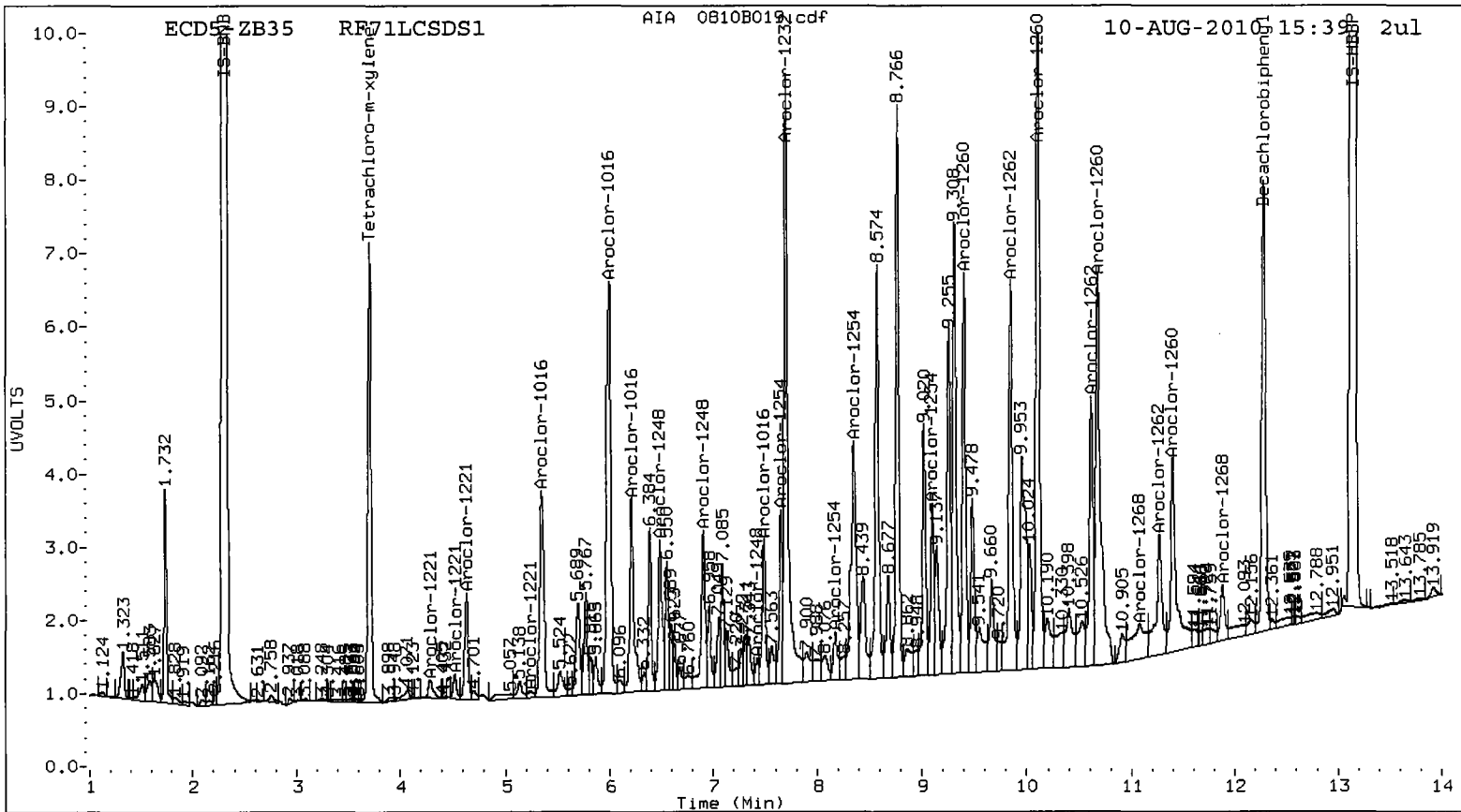
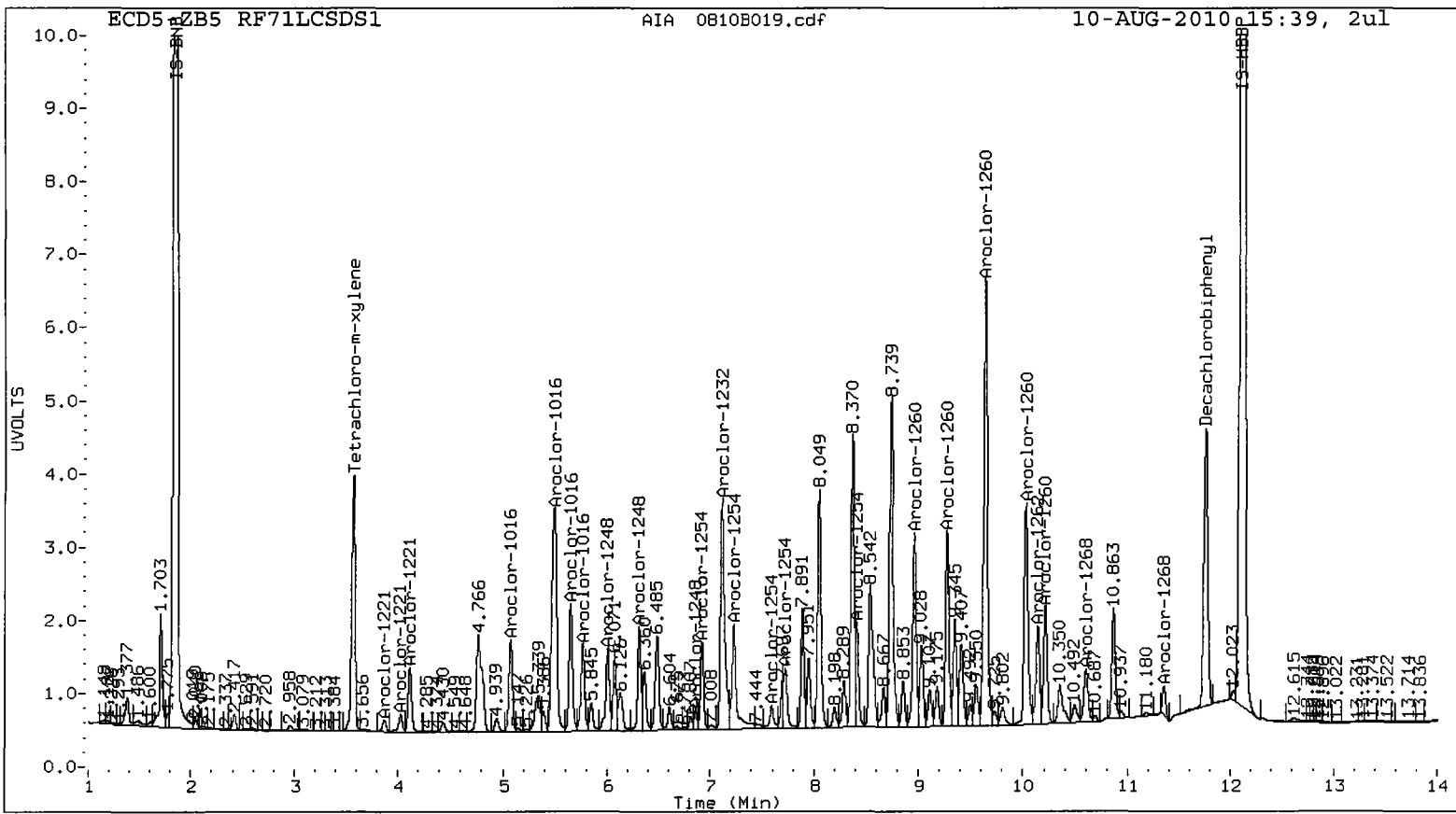
Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF 71 : 01050





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B020.d
Data file 2: 20100806.b/0810-2.b/0810B020.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: RF71A
Client ID: BW-07-SC-COMP-10072
Injection Date: 10-AUG-2010 15:58
Ical Date: 06-AUG-2010
Matrix: SOIL
Dilution Factor: 5.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	RT	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.571	0.000 3462571	3.706 -0.001 6040707		5.6	7.7	32.2	Tetrachloro-m-xylene
11.752	0.000 3710909	12.282 0.001 6114833		6.8	7.7	11.9	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	69.4	96.0
Decachlorobiphenyl	85.1	95.9

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	30567273	-14.1
Hexabromobiphenyl	47117515	27076989	-42.5

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	56071292	-28.4
Hexabromobiphenyl	74720444	43828875	-41.3

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.071	-0.003	121791	8.2	1	5.345	-0.003	536926	18.3	
Aroclor-1016	2	5.491	-0.002	221696	4.6	2	5.995	0.001	375673	5.9	
Aroclor-1016	3	5.658	0.009	108605	5.4	3	6.213	0.006	169359	6.7	
Aroclor-1016	4	5.754	-0.009	100733	7.3	4	7.492	0.006	933781	79.1	
Total CollAve (4 peaks):				6.4	Total Col2Ave (4 peaks):				27.8	RPD = 125*	
Corrected Ave (3 peaks):				5.8	Corrected Ave (3 peaks):				10.3	RPD = 56*	
Aroclor-1221	1	3.883	0.016	32641	5.3	1	4.338	0.049	406786	47.4	
Aroclor-1221	2	4.030	0.008	125056	28.0	2	4.530	0.008	75929	14.7	
Aroclor-1221	3	4.121	0.008	45804	3.2	3	4.623	-0.009	110774	6.9	
Aroclor-1221	NS	---	---	---	---	4	5.273	0.030	567164	366.6	
Total CollAve (3 peaks):				12.1	Total Col2Ave (4 peaks):				108.9	RPD = 160*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				23.0		
Aroclor-1232	1	5.071	-0.003	121791	18.7	1	5.345	-0.006	536926	38.3	
Aroclor-1232	2	5.491	-0.002	221696	10.5	2	5.995	0.000	375673	13.5	
Aroclor-1232	3	5.658	0.010	108605	12.4	3	6.213	0.004	169359	15.3	
Aroclor-1232	4	7.111	-0.034	1004318	150.0	4	7.748	-0.022	860329	84.4	
Total CollAve (4 peaks):				47.9	Total Col2Ave (4 peaks):				37.9	RPD = 23	
Corrected Ave (3 peaks):				13.8	Corrected Ave (3 peaks):				22.3	RPD = 47*	
Aroclor-1242	1	5.071	-0.004	121791	10.8	1	5.345	-0.002	536926	24.1	
Aroclor-1242	2	5.491	-0.004	221696	6.0	2	5.995	0.002	375673	7.9	
Aroclor-1242	3	5.658	0.008	108605	7.1	3	6.213	0.006	169359	8.8	
Aroclor-1242	4	7.111	-0.031	1004318	75.7	4	7.748	-0.019	860329	42.4	
Total CollAve (4 peaks):				24.9	Total Col2Ave (4 peaks):				20.8	RPD = 18	
Corrected Ave (3 peaks):				7.9	Corrected Ave (3 peaks):				13.6	RPD = 52*	
Aroclor-1248	1	6.003	-0.001	224611	13.7	1	6.482	0.001	504518	22.3	
Aroclor-1248	2	6.308	0.000	205569	10.9	2	6.903	0.003	263668	10.0	
Aroclor-1248	3	6.889	0.035	1331372	59.9	3	7.424	0.003	387358	14.8	
Aroclor-1248	4	7.111	-0.031	1004318	47.5	4	7.748	-0.019	860329	25.4	
Total CollAve (4 peaks):				33.0	Total Col2Ave (4 peaks):				18.1	RPD = 58*	
Corrected Ave (3 peaks):				24.0	Corrected Ave (3 peaks):				15.7	RPD = 42*	
Aroclor-1254	1	6.889	-0.028	1331372	53.6	1	7.492	0.006	933781	35.1	
Aroclor-1254	2	7.223	-0.001	490491	14.1	2	7.652	0.001	544972	15.0	
Aroclor-1254	3	7.600	0.009	383075	16.4	3	8.151	-0.019	3078167	112.3	
Aroclor-1254	4	7.724	-0.001	810813	18.7	4	8.316	-0.001	918494	15.3	
Aroclor-1254	5	8.418	-0.002	393914	12.9	5	9.091	0.008	744086	20.3	
Total CollAve (5 peaks):				23.1	Total Col2Ave (5 peaks):				39.6	RPD = 52*	
Corrected Ave (4 peaks):				15.5	Corrected Ave (4 peaks):				21.4	RPD = 32	
Aroclor-1260	1	8.968	0.006	261335	11.4	1	9.394	-0.004	521537	12.2	
Aroclor-1260	2	9.259	-0.013	495387	22.8	2	10.105	0.002	768587	7.9	
Aroclor-1260	3	9.617	-0.017	862862	15.9	3	10.675	0.001	507359	7.9	
Aroclor-1260	4	10.026	0.002	76864	2.8	4	11.463	0.069	1594496	58.4	
Aroclor-1260	5	10.210	0.001	88349	5.7	NS	---	---	---	---	
Total CollAve (5 peaks):				11.7	Total Col2Ave (4 peaks):				21.6	RPD = 59*	
Corrected Ave (4 peaks):				9.0	Corrected Ave (3 peaks):				9.3	RPD = 4	
Aroclor-1262	1	8.968	0.006	261335	8.5	1	9.394	-0.006	521537	9.1	
Aroclor-1262	2	9.259	-0.013	495387	19.6	2	9.841	-0.005	791897	16.8	
Aroclor-1262	3	9.617	-0.017	862862	15.5	3	10.612	-0.004	418129	8.1	
Aroclor-1262	4	10.142	0.004	113242	4.1	4	11.265	-0.001	762989	39.1	
Aroclor-1262	5	10.210	-0.001	88349	3.2	5	11.463	0.067	1594496	40.5	
Total CollAve (5 peaks):				10.2	Total Col2Ave (5 peaks):				22.7	RPD = 76*	
Corrected Ave (4 peaks):				7.9	Corrected Ave (4 peaks):				18.3	RPD = 80*	
Aroclor-1268	1	10.142	0.004	113242	1.7	1	10.612	-0.005	418129	3.5	
Aroclor-1268	2	10.210	0.002	88349	1.3	2	10.675	-0.007	507359	4.4	
Aroclor-1268	3	10.599	0.013	115772	2.2	3	11.077	0.004	871545	10.3	
Aroclor-1268	4	11.347	-0.006	78138	0.7	4	11.874	-0.001	347518	1.6	
Total CollAve (4 peaks):				1.5	Total Col2Ave (4 peaks):				4.9	RPD = 108*	
Corrected Ave (3 peaks):				1.2	Corrected Ave (3 peaks):				3.1	RPD = 89*	

? JFL

Total PCB Area Col1 (3.671 - 11.652) = 25127726

Col1 Total PCB = 0.1 ppm*

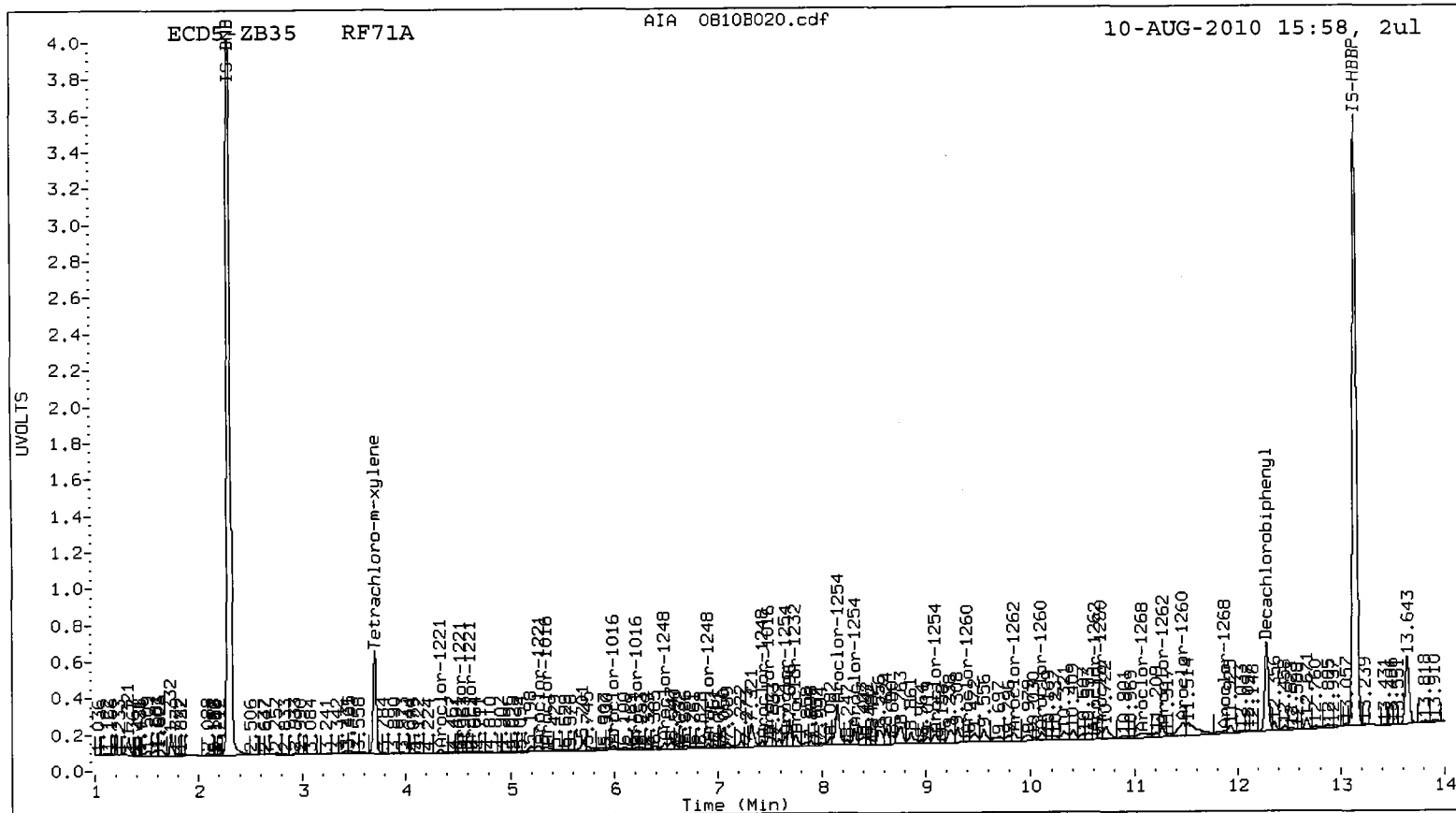
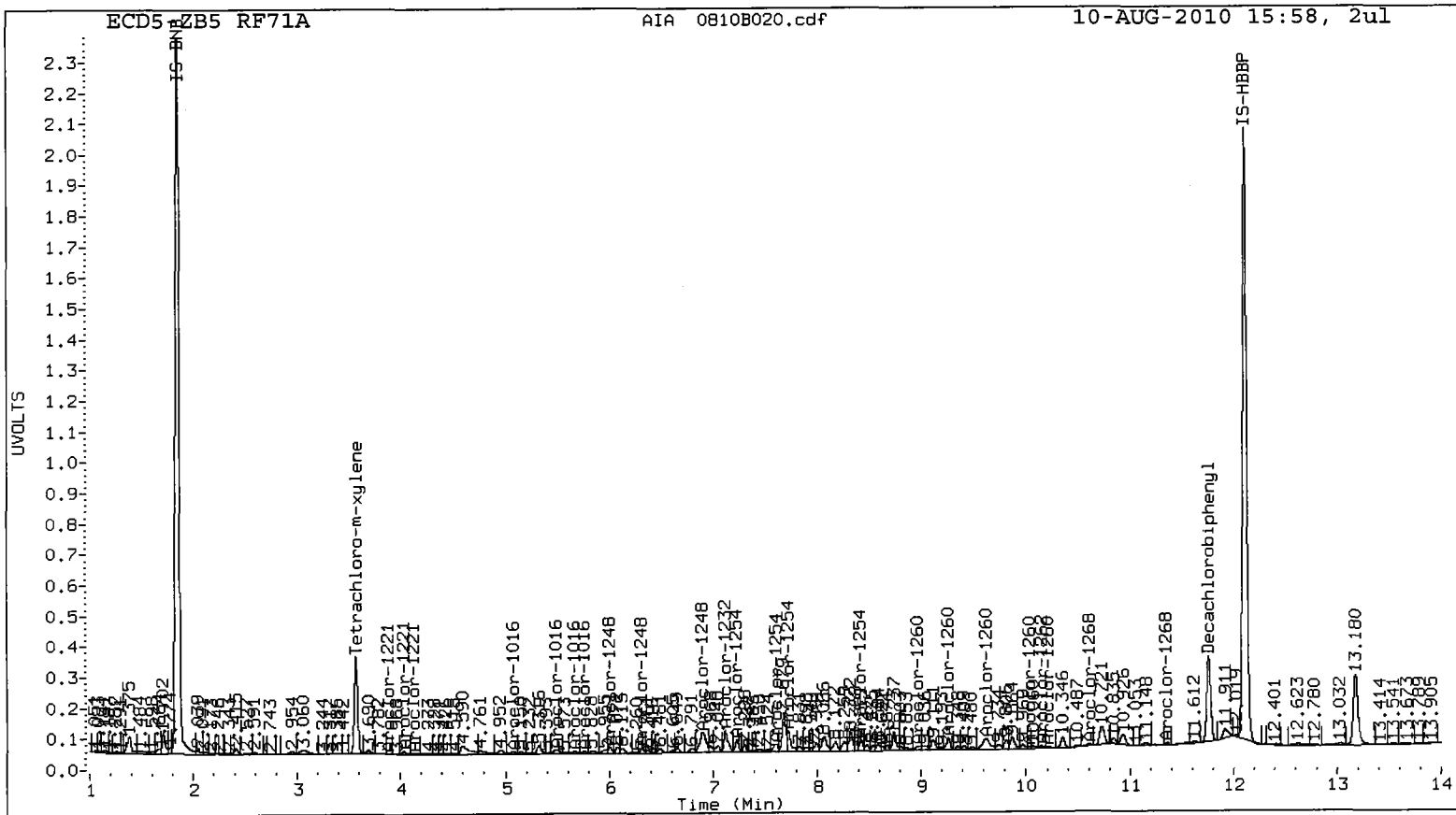
Total PCB Area Col2 (3.807 - 12.181) = 55111967

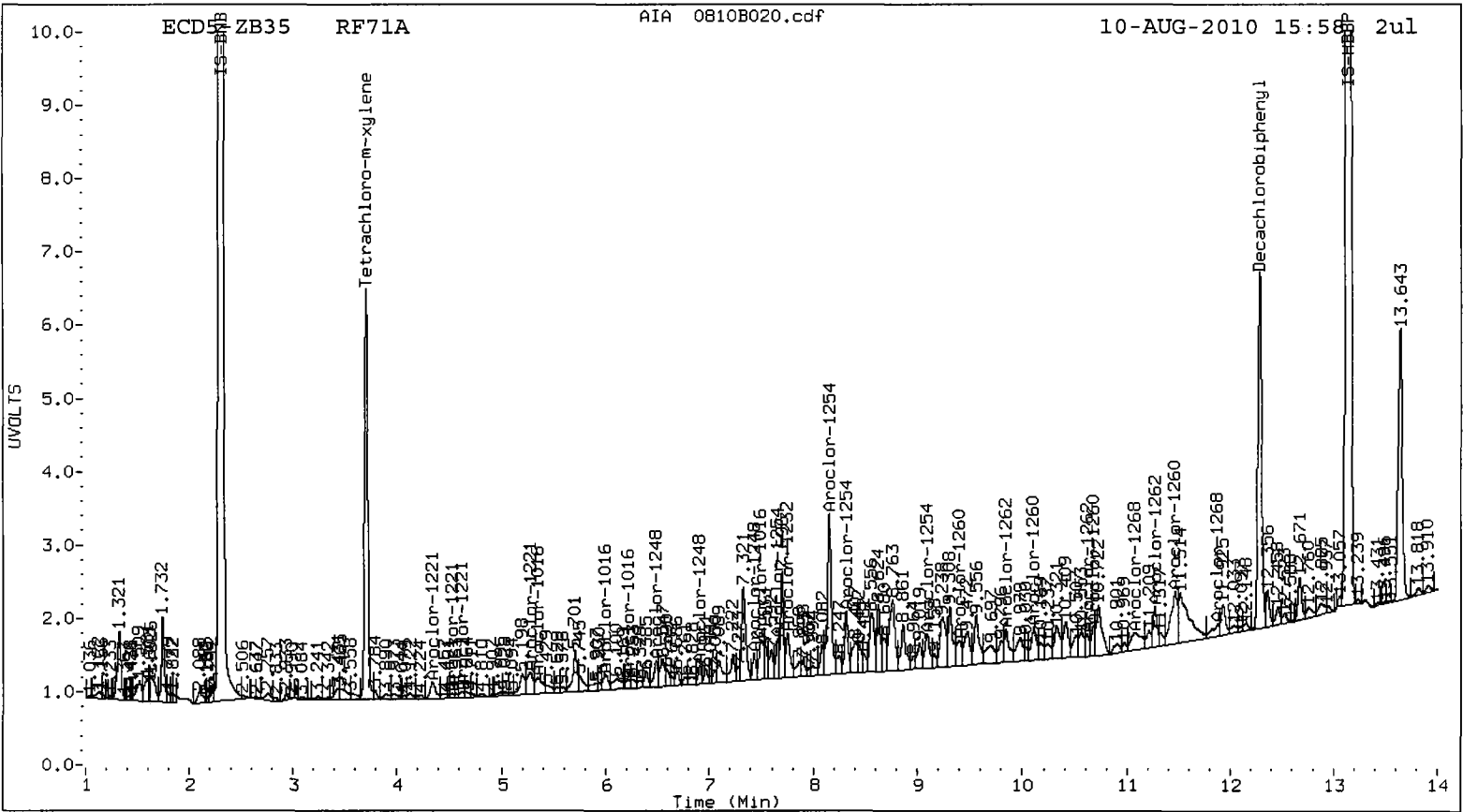
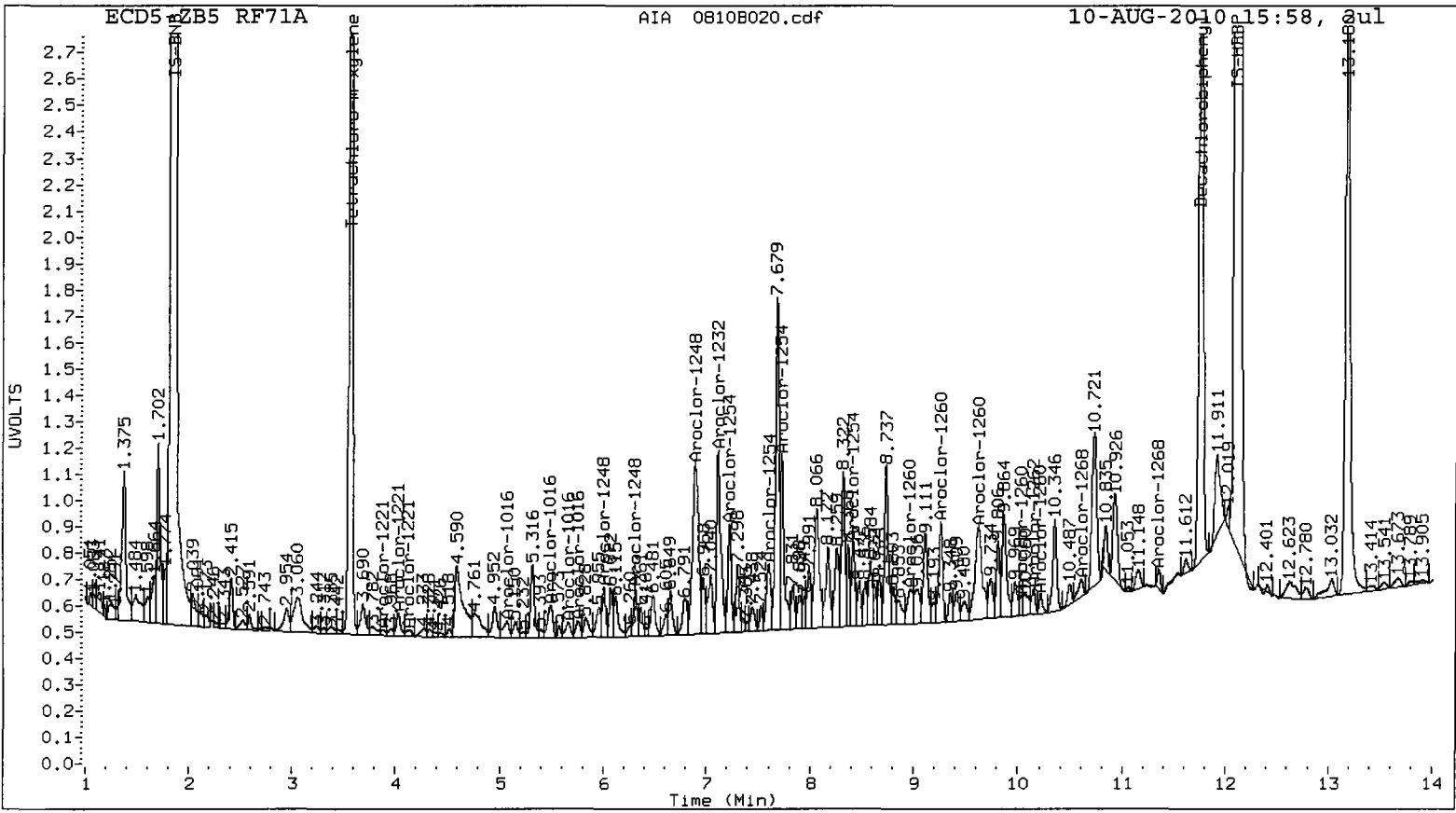
Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

RF71:01055





Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B029.d
Data file 2: 20100806.b/0810-2.b/0810B029.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 10-AUG-2010 18:48
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response	on col	on col		
3.571	0.000	14559520	3.705	-0.002	25160159	18.2	23.3	24.9	Tetrachloro-m-xylene
11.753	0.001	14722275	12.282	0.001	23400872	17.5	20.3	14.8	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	45.4	58.3
Decachlorobiphenyl	43.7	50.7

208/31/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	39251315	10.3
Hexabromobiphenyl	47117515	41818457	-11.2

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	76856661	-1.9
Hexabromobiphenyl	74720444	63415891	-15.1

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col

ZB35 Col

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1248	1	6.004	0.000	4515236	214.3	1	6.481	0.000	7864277	253.4	
Aroclor-1248	2	6.308	0.000	5178572	214.0	2	6.901	0.000	7677544	213.1	
Aroclor-1248	3	6.854	0.000	6146354	215.4	3	7.421	-0.001	5830104	162.3	
Aroclor-1248	4	7.142	0.000	5440055	200.3	4	7.767	-0.001	12007938	258.5	
Total Col1Ave (4 peaks):				211.8		Total Col2Ave (4 peaks):				221.8	RPD = 5
Corrected Ave (3 peaks):				209.5		Corrected Ave (3 peaks):				209.6	RPD = 0

214.56

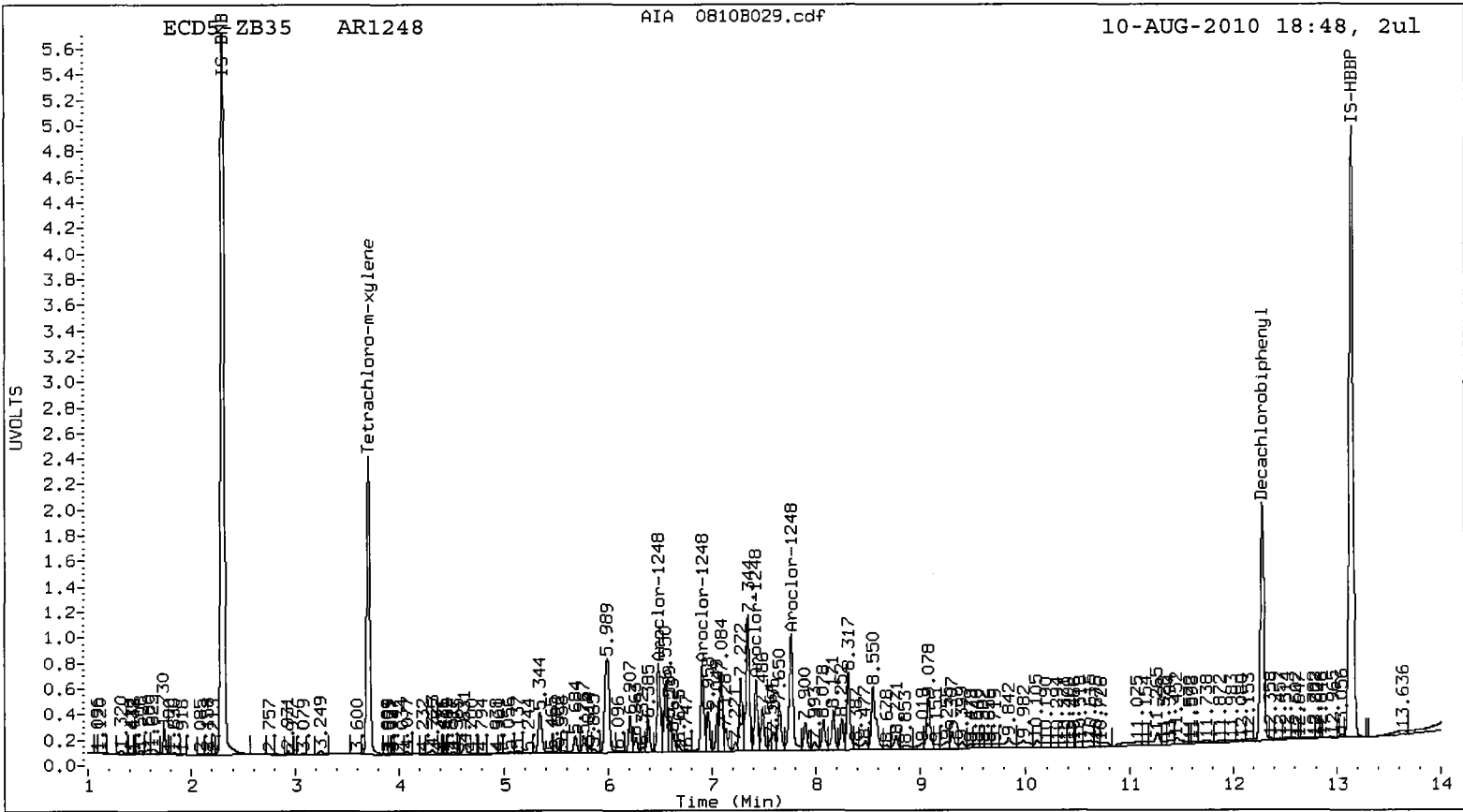
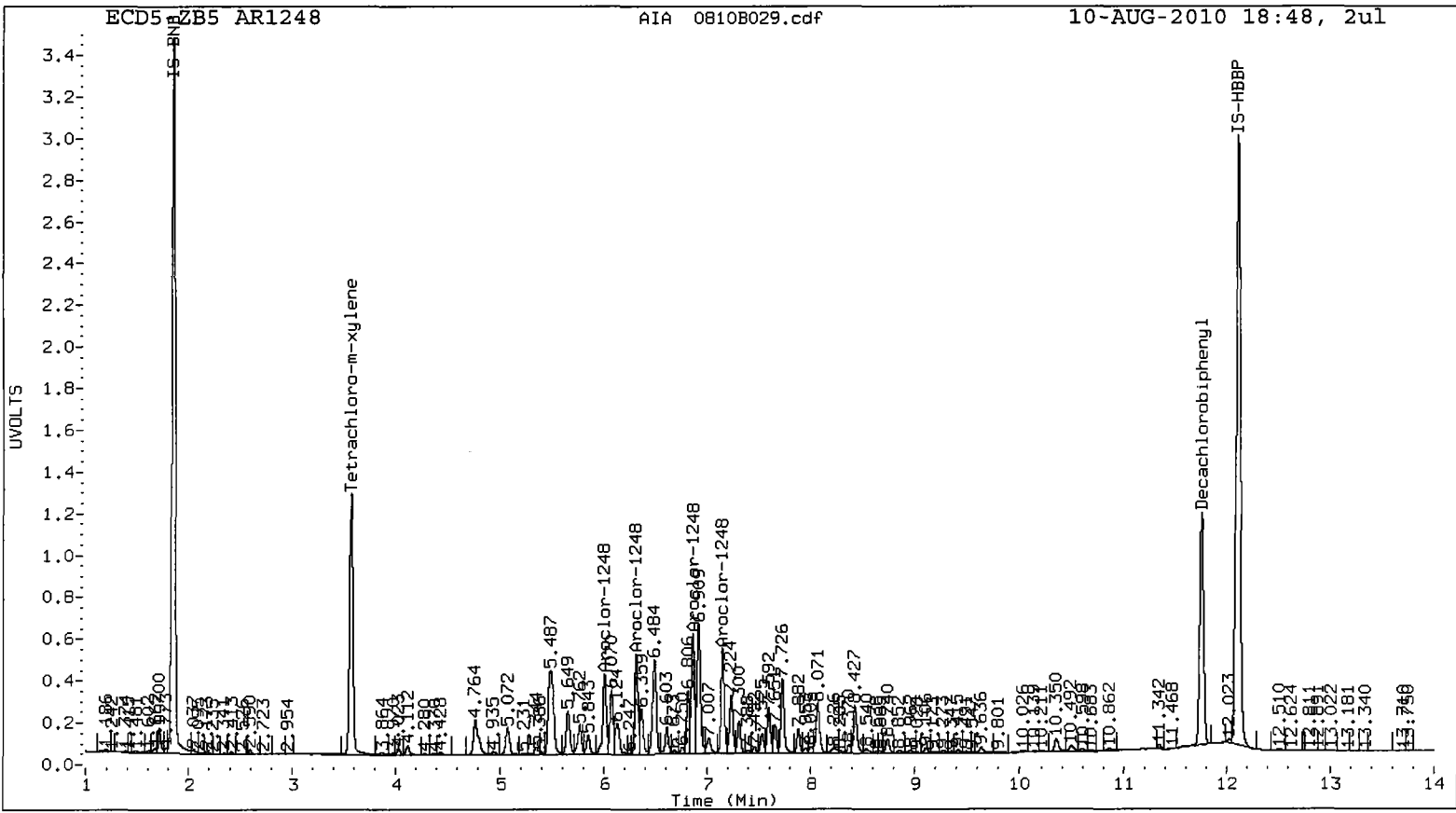
Total PCB Area Col1 (3.671 - 11.652) = 97759091

Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (3.807 - 12.181) = 180247192

Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical



Analytical Resources Inc.
Dual Column PCBs by SW8082

Data file 1: 20100806.b/0810-1.b/0810B030.d
Data file 2: 20100806.b/0810-2.b/0810B030.d
Method: /chem2/ecd5.i/20100806.b/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 10-AUG-2010 19:06
Ical Date: 06-AUG-2010
Matrix: NONE
Dilution Factor: 1.000

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
3.570	-0.001 10636597	3.707 -0.001 20141180	14.3	20.1	33.8	Tetrachloro-m-xylene
11.753	0.000 14300208	12.282 0.001 22149722	17.3	20.0	14.5	Decachlorobiphenyl

- * Indicates RPD > 40%
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	35.7	50.2
Decachlorobiphenyl	43.2	49.9

2008/11/10

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	35593381	36497240	2.5
Hexabromobiphenyl	47117515	41135412	-12.7

Standard Cpnd	Column 2		%D
	Standard Area*	Sample Area	
Bromo-Nitrobenzene	78348017	71467364	-8.8
Hexabromobiphenyl	74720444	60996901	-18.4

- * Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-AUG-2010
- <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	5.073	-0.001	3836852	217.5	1	5.347	-0.001	9540127	254.9	
Aroclor-1016	2	5.493	-0.001	12510498	217.0	2	5.993	0.000	19981927	247.9	
Aroclor-1016	3	5.648	-0.001	5129238	214.1	3	6.207	0.001	8293177	256.1	
Aroclor-1016	4	5.762	-0.001	3598447	218.1	4	7.487	0.001	3886497	258.4	
Total Col1Ave (4 peaks):				216.7		Total Col2Ave (4 peaks):				254.3	RPD = 16
Corrected Ave (3 peaks):				216.2		Corrected Ave (3 peaks):				253.0	RPD = 16
Aroclor-1260	1	8.962	-0.001	8631516	248.9	1	9.398	0.001	15710926	263.2	
Aroclor-1260	2	9.272	0.000	8219513	249.5	2	10.104	0.000	24305133	179.4	
Aroclor-1260	3	9.634	-0.001	20174331	244.2	3	10.675	0.001	17088200	190.7	
Aroclor-1260	4	10.026	0.001	10113387	246.8	4	11.395	0.001	11102686	292.2	
Aroclor-1260	5	10.210	0.001	5784413	245.7	NS	---			----	
Total Col1Ave (5 peaks):				247.0		Total Col2Ave (4 peaks):				231.4	RPD = 7
Corrected Ave (4 peaks):				246.4		Corrected Ave (3 peaks):				211.1	RPD = 15

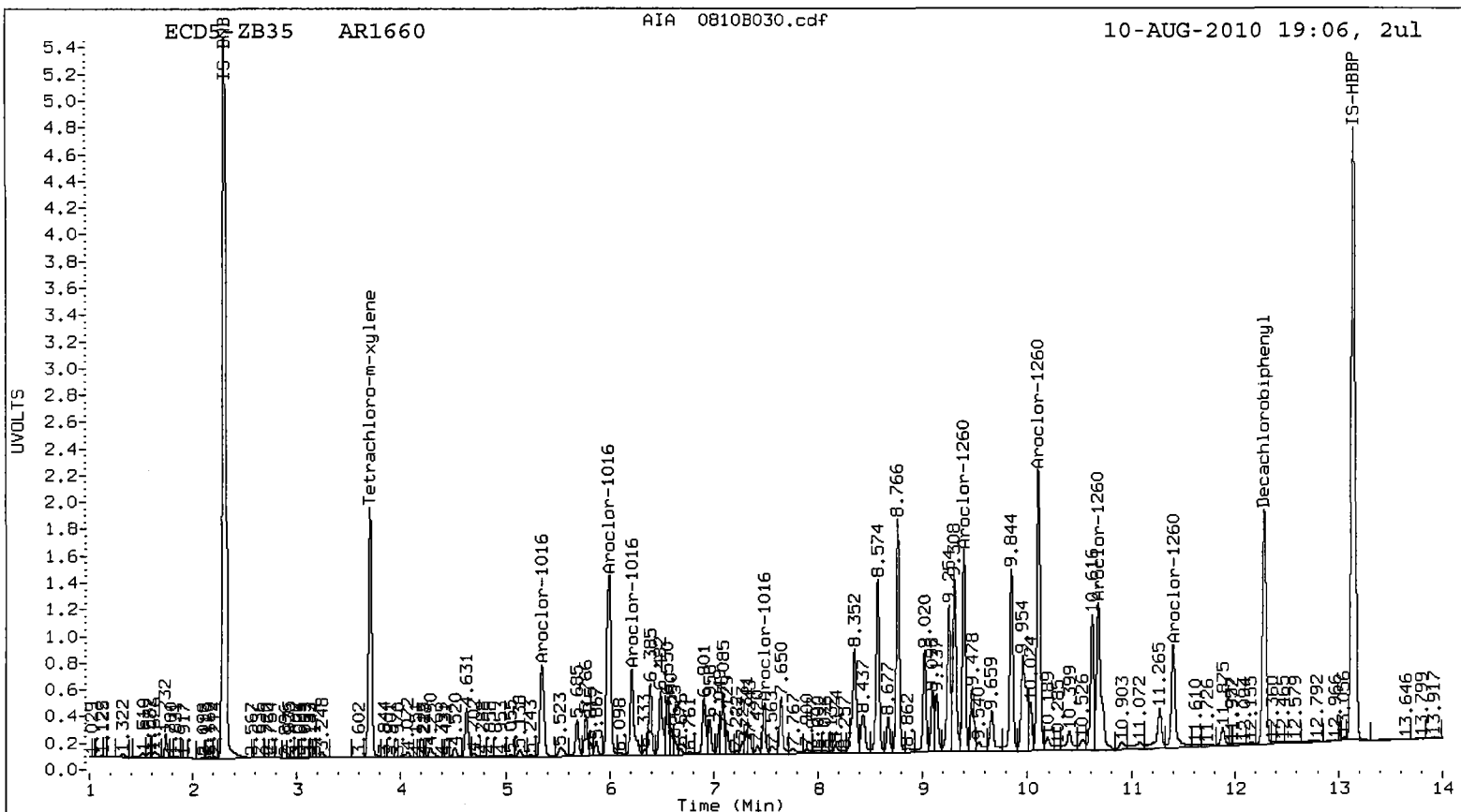
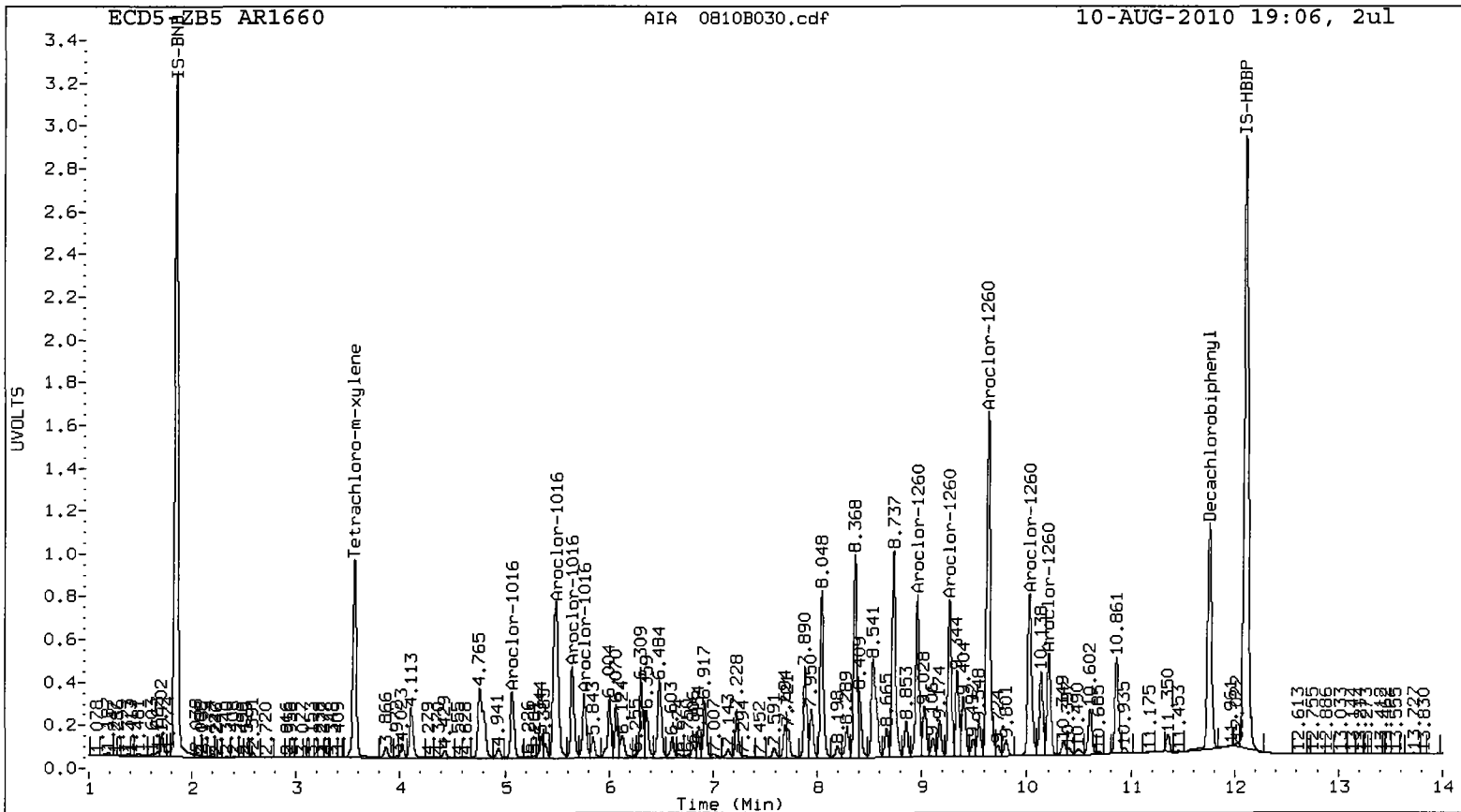
Total PCB Area Col1 (3.671 - 11.652) = 213673134

Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (3.807 - 12.181) = 346233026

Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical



**TPHD Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: RF71



Preparation Test TPHD # 3

ARI Job No(s) RF71, RG13

In-House (5ppm)

Batch set up by: SH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Transfer to Turbo Tube	TurboVap 1 2 3	Acid/Silica Clean (1:1) Y/N	TurboVap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	RF71 MBS	Date 7/30/10	10.00g					1mL	1mL	
	SBS		↓							
	SBS Dup.		↓							
	↓ A	Checked	10.17							
8	RG13 A		10.06							
5	B		10.65							
5	C		10.11							
	D		10.05							
	E		10.11							
	Ems		10.14							
	Emsd		10.30							
	F		10.52							
5	G		10.60							
	H		10.06							
	I		10.00							
Analyst/Date: WC 7/30/10					7/31/10	7/31/10	7/31/10	7/31/10	7/31/10	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	0	100µL	12/11/10	WC	TH
Spike	11	100µL	4/26/11	WC	TH

Extraction Time: 17:25 Balance ID: 2450193

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add 20mL DCM to the vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 4. Add surr/spike. 5. Mix samples thoroughly before microwaving. 6. Microwave on appropriate power setting determined by # of samples. 7. After microwave-let cool 10-15 min. 8. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 9. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 10. TurboVap. 11. Acid/Silica Clean-up? = Y/N. 12. TurboVap (if Silica Clean). 13. Vial in DCM.

A. Need Total Solids Y (N) B. Archive/Freeze Y (N)



ARI Job No.: RF71

Client ID: Anchor QEA

Parameter: TPHD A/S

Client Project: Bay Wood

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

**TPHD Raw Data
Initial Calibration**

ARI Job ID: RF71



GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel #2, 30wt Mol | 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): Diesel #2, o-Terphenyl, AK102, 30wt Mol, n-Tetracontan

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: 7/30/10 Analysis Start: 7/30/10

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	YES / NO <u>NA</u>
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	YES / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery In Control?	YES / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO / <u>NA</u>	Special Analysis Criteria Met?	YES / NO / <u>NA</u>

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

Diesel ICV quants (310/250) = 124%

7/31/10

Additional Details on Reverse: Yes / No

Analyst: MO Date: 8/3/10

Reviewer: AB Date: 8/14/10

Analytical Resources Inc.: Organics Instrument Log

FID-3B Serial No.: US00003232

Date: 7/30/10

Analysis: NWTHH

Analyst: mm

GC Program: TPHHT

Column No: 162178

Column Type: 2R1HT

Instrument Tune (.U or .CT.): _____

EM Voltage: _____

Calibration File: _____

Curve Date: 7/30/10

IS/SS	Ical/Ccal	LCS/ICV
_____	<u>1700-1</u>	_____
_____	<u>1680-3</u>	_____
_____	<u>1730-3</u>	_____
_____	<u>1737-3</u>	_____

Time	Filename	LabID	ClientId	DF	Time	Filename	LabID	ClientId	DF
1	1336	0730b001.d	RINSE	1	23	2158	0730b023.d	DIESEL 2500	1
2	1355	0730b002.d	RINSE	1	24	2217	0730b024.d	DIESEL ICV	1
3	1414	0730b003.d	RINSE	1	25	2236	0730b025.d	MOIL 100	1
4	1433	0730b004.d	RINSE	1	26	2255	0730b026.d	MOIL 250	1
5	1453	0730b005.d	RINSE	1	27	2314	0730b027.d	MOIL 500	1
6	1512	0730b006.d	RINSE	1	28	2332	0730b028.d	MOIL 1000	1
7	1532	0730b007.d	RINSE	1	29	2351	0730b029.d	RINSE	1
8	1551	0730b008.d	RINSE	1	30	0010	0730b030.d	MOIL 2500	1
9	1611	0730b009.d	RINSE	1	31	0028	0730b031.d	RINSE	1
10	1631	0730b010.d	RINSE	1	32	0047	0730b032.d	MOIL 5000	1
11	1650	0730b011.d	RINSE	1	33	0106	0730b033.d	RINSE	1
12	1828	0730b012.d	RINSE	1	34	0125	0730b034.d	MOIL ICV	1
13	1846	0730b013.d	RINSE	1	35	0144	0730b035.d	RINSE	1
14	1906	0730b014.d	RINSE	1	36	0203	0730b036.d	RINSE	1
15	1925	0730b015.d	RINSE	1	37	0222	0730b037.d	DIESEL 250	1
16	1944	0730b016.d	RT	1	38	0240	0730b038.d	MOIL 500	1
17	2004	0730b017.d	IB	1					
18	2023	0730b018.d	DIESEL 50	1					
19	2042	0730b019.d	DIESEL 100	1					
20	2101	0730b020.d	DIESEL 250	1					
21	2120	0730b021.d	DIESEL 500	1					
22	2139	0730b022.d	DIESEL 1000	1					

[Large handwritten scribble]

[Signature]

8/3/10

Maintenance / Comments The back injector is connected to the back detector. Clipped precolumn, detector column and changed presstight.

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.

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Batch File: /chem3/fid3b.i/20100730.b
Inst ID: fid3b.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	1.033	0.933-1.133	+++++	+++++
2 C8	+++++	+++++	+++++	+++++	+++++	+++++	1.329	1.229-1.429	+++++	+++++
3 C10	2.859	2.858	2.857	2.859	2.859	2.863	2.858	2.808-2.908	2.859	0.002
4 C12	3.468	3.467	3.467	3.467	3.468	3.470	3.468	3.418-3.518	3.468	0.001
5 C14	3.925	3.924	3.925	3.925	3.926	3.929	3.927	3.877-3.977	3.926	0.002
6 C16	4.321	4.320	4.321	4.321	4.323	4.326	4.321	4.271-4.371	4.322	0.002
7 C18	4.674	4.674	4.675	4.676	4.678	4.683	4.675	4.625-4.725	4.677	0.003
8 o-terph	4.759	4.761	4.763	4.766	4.774	4.787	4.762	4.712-4.812	4.768	0.011
9 C20	4.998	4.997	4.996	4.998	4.998	5.002	4.998	4.948-5.048	4.998	0.002
10 C22	5.299	5.295	5.293	5.294	5.295	5.298	5.296	5.246-5.346	5.296	0.002
11 C24	5.597	5.601	5.604	5.603	5.602	5.604	5.603	5.553-5.653	5.602	0.003
12 C25	5.760	5.767	5.766	5.764	5.763	5.764	5.764	5.714-5.814	5.764	0.002
13 C26	5.922	5.926	5.921	5.928	5.926	5.924	5.926	5.876-5.976	5.925	0.002
14 C28	6.242	6.242	6.242	6.244	6.246	6.241	6.244	6.194-6.294	6.243	0.002
15 Triacon Surr	6.558	6.562	6.553	6.562	6.558	6.558	6.559	6.509-6.609	6.559	0.003
16 C32	6.842	6.845	6.846	6.866	6.846	6.847	6.856	6.806-6.906	6.849	0.008
17 C34	7.141	7.140	7.139	7.138	7.142	7.140	7.141	7.091-7.191	7.140	0.002

Reviewer 1 Mo Date: 8/3/10
 Reviewer 2 AB Date: 8/4/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Batch File: /chem3/fid3b.i/20100730.b
Inst ID: fid3b.i

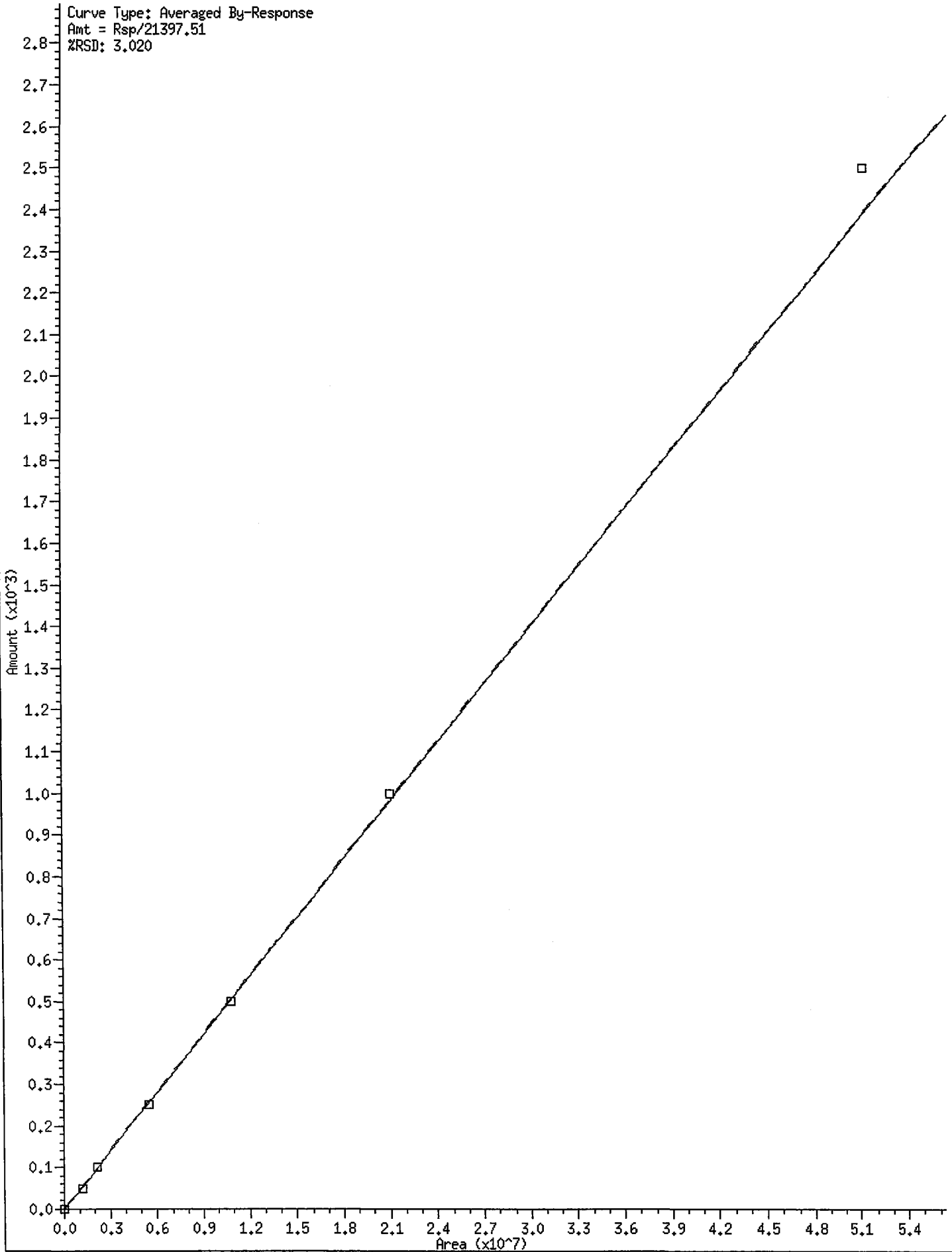
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 Filter Peak	+++++	+++++	+++++	+++++	+++++	+++++	11.120	11.020-11.220	+++++	+++++
19 C36	7.411	7.414	7.415	7.404	7.412	7.414	7.413	7.363-7.463	7.412	0.004
20 C38	7.672	7.670	7.668	7.673	7.673	7.669	7.670	7.620-7.720	7.671	0.002
21 C40	7.915	7.918	7.913	7.906	7.906	7.913	7.918	7.868-7.968	7.912	0.005
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
30 NW Mobil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

1 NW Diesel

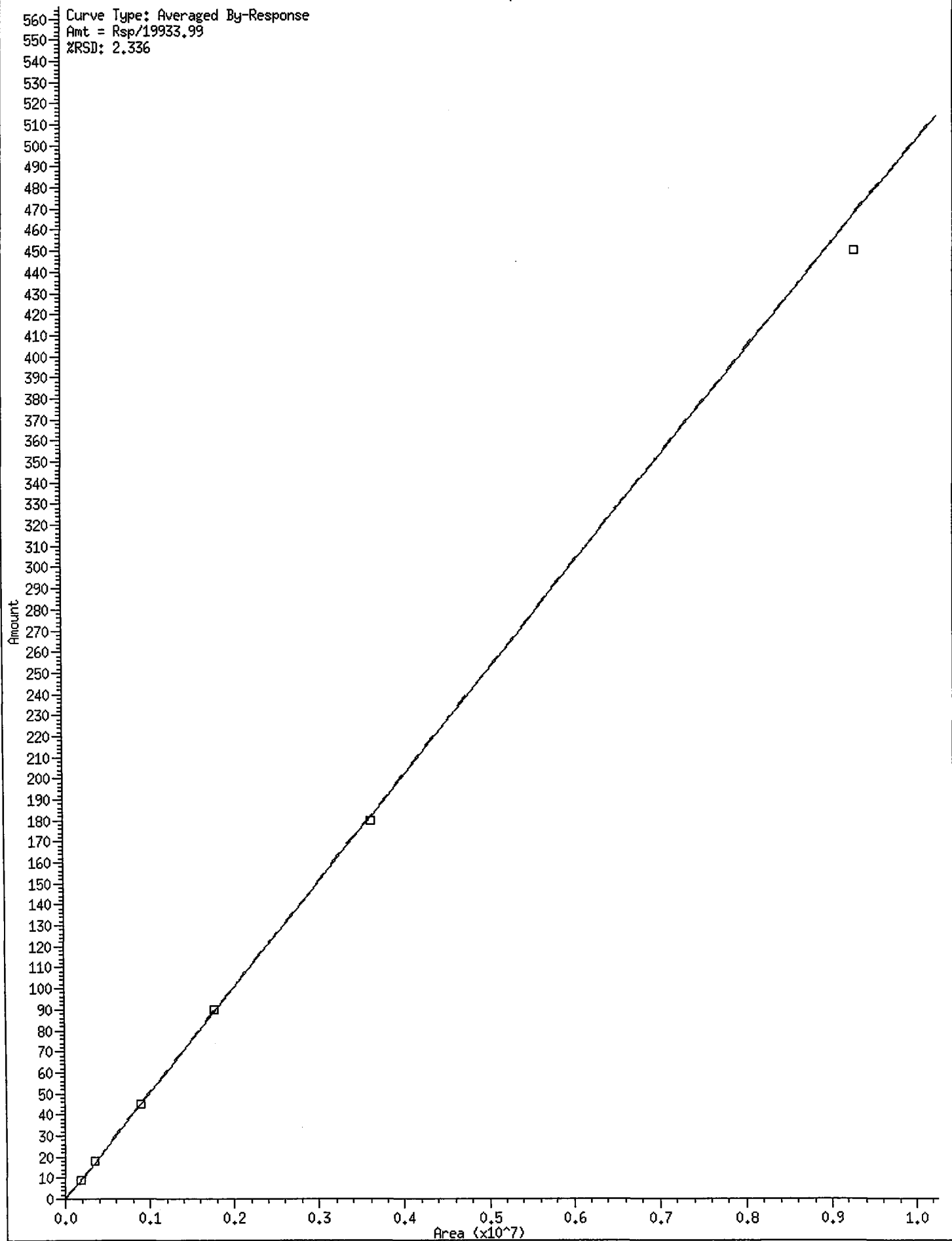
Curve Type: Averaged By-Response

Amt = Rsp/21397.51

%RSD: 3.020



* 8 o-terph



RF71 : 01073

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

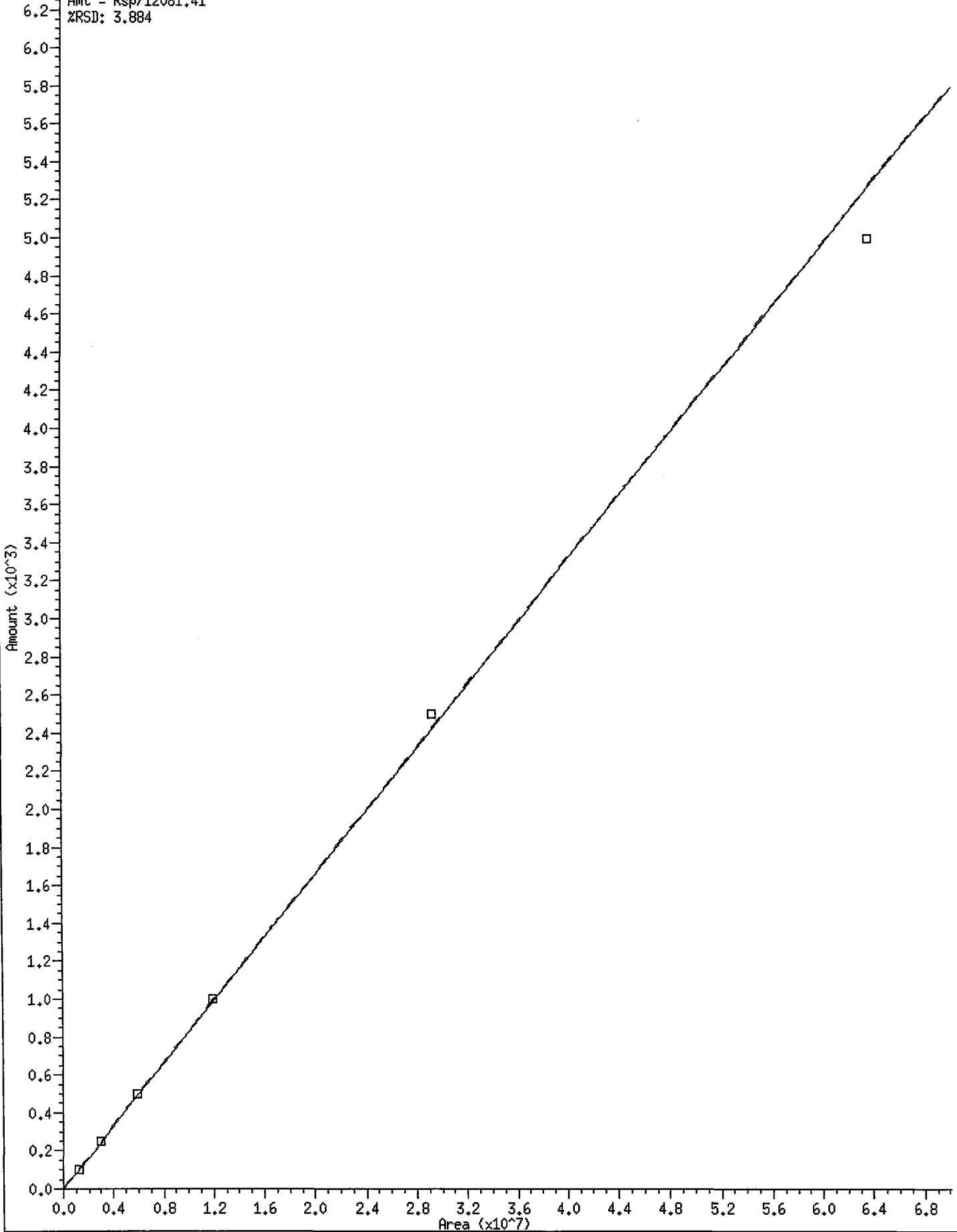
Method File: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Batch File: /chem3/fid3b.i/20100730.b
Inst ID: fid3b.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 0730b025 0730b027 0730b028 0730b030 0730b032
INJ.DATE: 30-JUL-2010 30-JUL-2010 30-JUL-2010 31-JUL-2010 31-JUL-2010
INJ.TIME: 22:36 22:55 23:14 23:32 00:10 00:47

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	1.033	0.933-1.133	+++++	+++++
2 C8	+++++	+++++	+++++	+++++	+++++	+++++	1.329	1.229-1.429	+++++	+++++
3 C10	2.861	2.860	2.856	2.858	2.857	2.860	2.858	2.808-2.908	2.859	0.002
4 C12	3.472	3.466	3.467	3.470	3.471	3.468	3.468	3.418-3.518	3.469	0.002
5 C14	3.925	3.923	3.922	3.925	3.927	3.927	3.927	3.877-3.977	3.925	0.002
6 C16	4.325	4.322	4.319	4.322	4.322	4.322	4.321	4.271-4.371	4.322	0.002
7 C18	4.673	4.673	4.674	4.677	4.676	4.674	4.675	4.625-4.725	4.674	0.002
8 o-terph	4.766	4.763	4.762	4.758	4.758	4.757	4.762	4.712-4.812	4.761	0.003
9 C20	5.000	4.999	4.998	5.000	4.996	4.996	4.998	4.948-5.048	4.998	0.002
10 C22	5.298	5.293	5.292	5.298	5.295	5.294	5.296	5.246-5.346	5.295	0.003
11 C24	5.605	5.603	5.604	5.601	5.605	5.606	5.603	5.553-5.653	5.604	0.002
12 C25	5.764	5.760	5.766	5.767	5.762	5.760	5.764	5.714-5.814	5.763	0.003
13 C26	5.924	5.923	5.924	5.924	5.928	5.924	5.926	5.876-5.976	5.924	0.002
14 C28	6.245	6.240	6.245	6.246	6.238	6.245	6.244	6.194-6.294	6.243	0.003
15 Triacon Surr	6.558	6.557	6.561	6.568	6.581	6.604	6.559	6.509-6.609	6.571	0.018
16 C32	6.858	6.855	6.858	6.854	6.857	6.855	6.856	6.806-6.906	6.856	0.002
17 C34	7.140	7.138	7.139	7.141	7.138	7.144	7.141	7.091-7.191	7.140	0.002

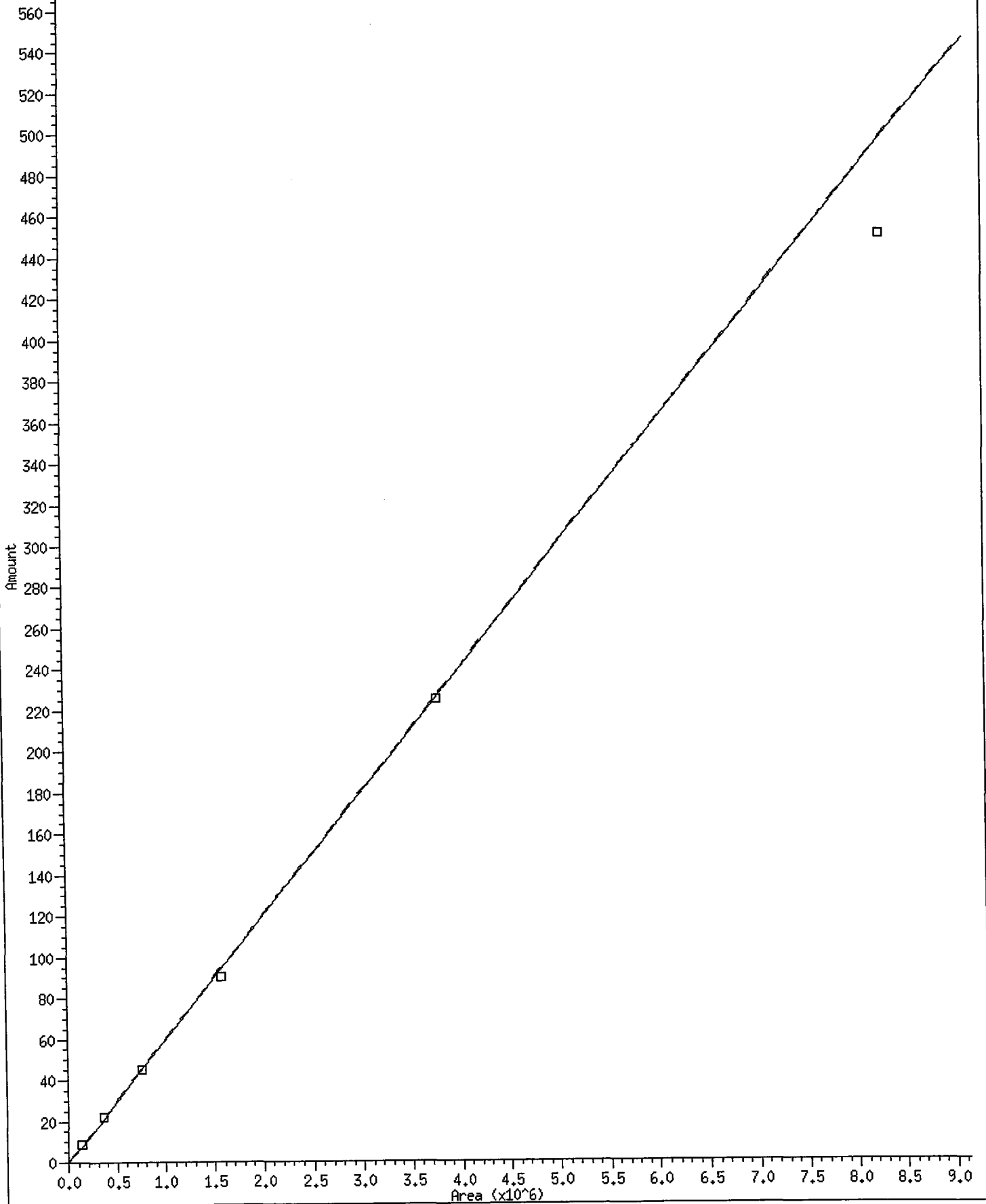
Reviewer 1 MJ Date: 8/2/10
Reviewer 2 BB Date: 8/2/10

Curve Type: Averaged By-Response
Amt = Rsp/12081.41
%RSD: 3.884



* 15 Triacon Surr

Curve Type: Averaged By-Response
Amt = Rsp/16726.1
%RSD: 7.481



RF71 : 01076

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b016.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: RT
Client ID:
Injection: 30-JUL-2010 19:44
Dilution Factor: 1

FID:3B RESULTS							
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.033	0.000	456879	337608	GAS (Tol-C12)	1097687	40
C8	1.329	0.000	189901	240601	DIESEL (C12-C24)	1496059	70
C10	2.858	0.000	416657	232827	M.OIL (C24-C38)	1934119	160
C12	3.468	0.000	440250	214823	AK-102 (C10-C25)	1992788	83
C14	3.927	0.000	363188	216701	AK-103 (C25-C36)	1675056	188
C16	4.321	0.000	362104	222398	OR.DIES (C10-C28)	2818677	134
C18	4.675	0.000	368496	232634	OR.MOIL (C28-C40)	1352255	120
C20	4.998	0.000	363866	224926			
C22	5.296	0.000	339422	219901	STODDARD (C8-C12)	760079	27
C24	5.603	0.000	316031	231954			
C25	5.764	0.000	406879	323181			
C26	5.926	0.000	277906	237107			
C28	6.244	0.000	281413	242400			
C32	6.856	0.000	279045	260188			
C34	7.141	0.000	288583	263124	CREOSOT (C8-C22)	2002088	313
Filter Peak	----						
C36	7.413	0.000	290595	273201	BUNKERC (C10-C38)	3920470	454
o-terph	4.762	0.000	1421275	843115	JET-A (C10-C18)	1245736	79
Triacon Surr	6.559	0.000	941111	866222	IT.MOIL (C24-C40)	3050803	142

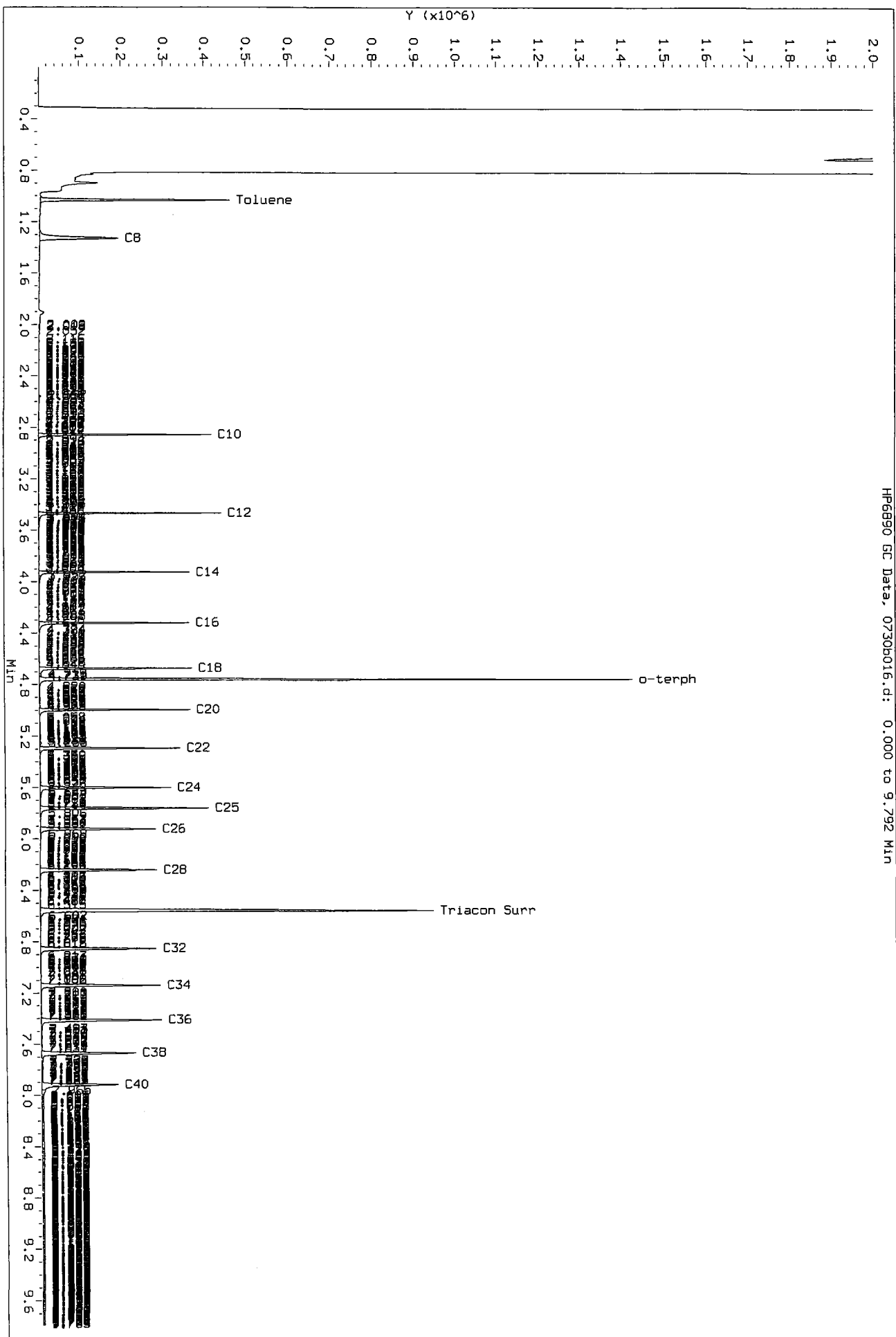
Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	843115	42.3	94.0
Triacotane	866222	51.8	115.1

MS 8/31/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/07306016.d
Injection Date: 30-JUL-2010 19:44
Instrument: fid3b.1
Client Sample ID:



HP6890 GC Data, 07306016.d: 0.000 to 9.792 Min

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b017.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: IB
Client ID:
Injection: 30-JUL-2010 20:04
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	53274	2
C8	----				DIESEL (C12-C24)	47392	2
C10	2.862	0.004	1018	855	M.OIL (C24-C38)	100239	8
C12	3.465	-0.003	808	432	AK-102 (C10-C25)	79393	3
C14	3.930	0.003	519	242	AK-103 (C25-C36)	76073	9
C16	4.323	0.002	239	128	OR.DIES (C10-C28)	81657	4
C18	4.670	-0.005	270	244	OR.MOIL (C28-C40)	127566	11
C20	4.988	-0.009	613	377			
C22	5.297	0.001	134	75	STODDARD (C8-C12)	53274	2
C24	5.602	-0.001	51	29			
C25	5.763	0.000	38	5			
C26	5.931	0.005	74	34			
C28	6.246	0.002	316	369			
C32	6.869	0.013	2077	3970			
C34	7.141	0.000	908	924	CREOSOT (C8-C22)	99784	16
Filter Peak	----						
C36	7.409	-0.004	1090	324	BUNKERC (C10-C38)	179595	21
o-terph	4.762	0.000	1553537	869035	JET-A (C10-C18)	60151	4
Triacon Surr	6.563	0.004	818399	711389	IT.MOIL (C24-C40)	841256	39

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	869035	43.6	96.9
Triacotane	711389	42.5	94.5

MS 8/31/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 30-JUL-2010 20:04

Client ID:

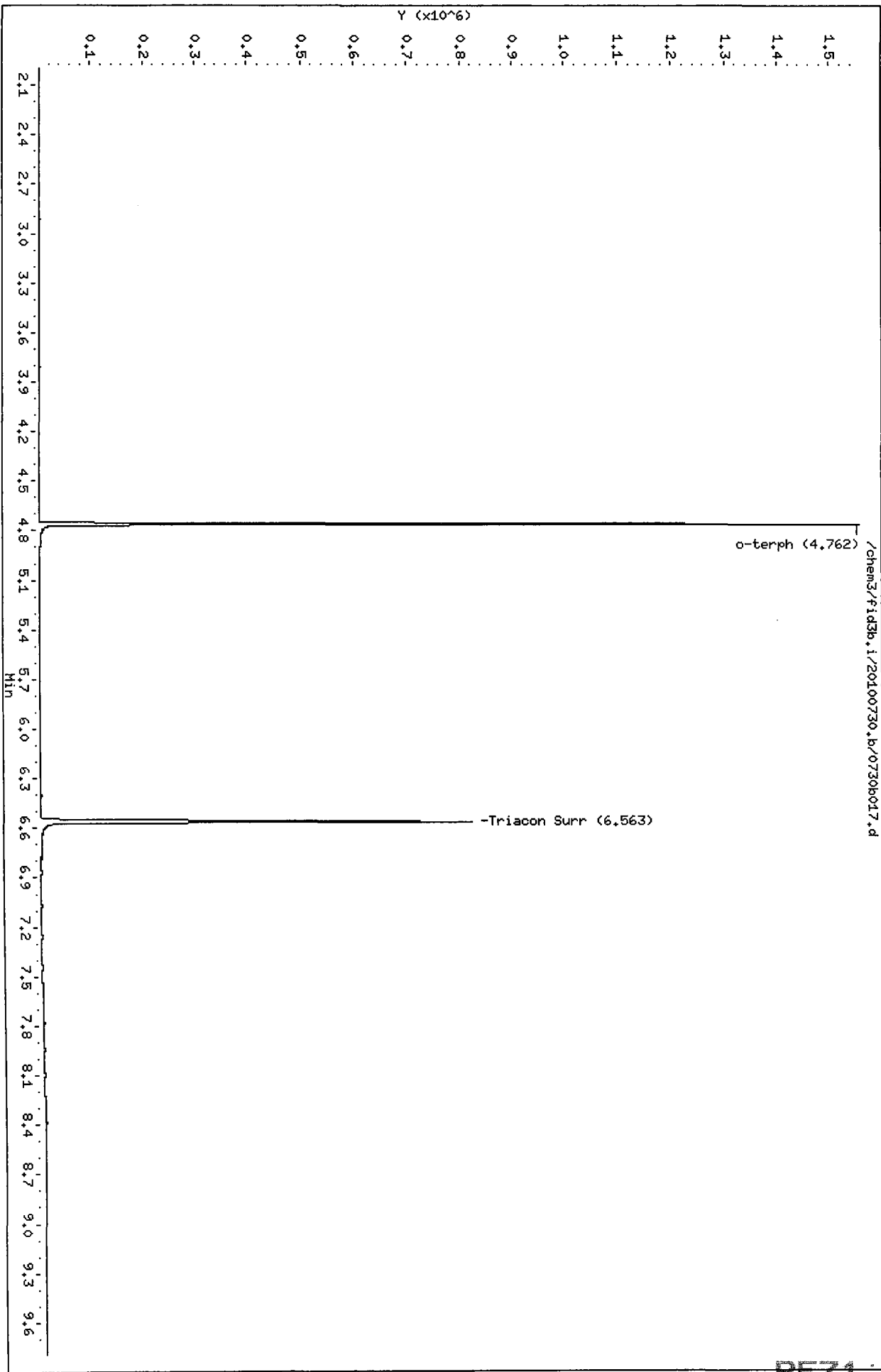
Instrument: fid3b,i

Sample Info: IB

Operator: MS

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b018.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 50
Client ID:
Injection: 30-JUL-2010 20:23
Dilution Factor: 1

FID:3B RESULTS							
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	203100	7
C8	----				DIESEL (C12-C24)	1110903	52
C10	2.859	0.001	5638	4849	M.OIL (C24-C38)	63488	5
C12	3.468	0.001	8865	7583	AK-102 (C10-C25)	1263931	52
C14	3.925	-0.001	21926	23612	AK-103 (C25-C36)	40579	5
C16	4.321	0.000	39235	39802	OR.DIES (C10-C28)	1274848	60
C18	4.674	-0.001	39296	35683	OR.MOIL (C28-C40)	78683	7
C20	4.998	0.000	18246	22375			
C22	5.299	0.003	5339	5505	STODDARD (C8-C12)	203100	7
C24	5.597	-0.006	1196	621			
C25	5.760	-0.003	625	310			
C26	5.922	-0.003	296	159			
C28	6.242	-0.002	52	16			
C32	6.842	-0.013	172	67			
C34	7.141	0.000	373	160	CREOSOT (C8-C22)	1280826	200
Filter Peak	----						
C36	7.411	-0.002	735	302	BUNKERC (C10-C38)	1323852	153
o-terph	4.759	-0.003	369839	176329	JET-A (C10-C18)	945094	60
Triacon Surr	6.558	-0.001	38	9	IT.MOIL (C24-C40)	93176	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

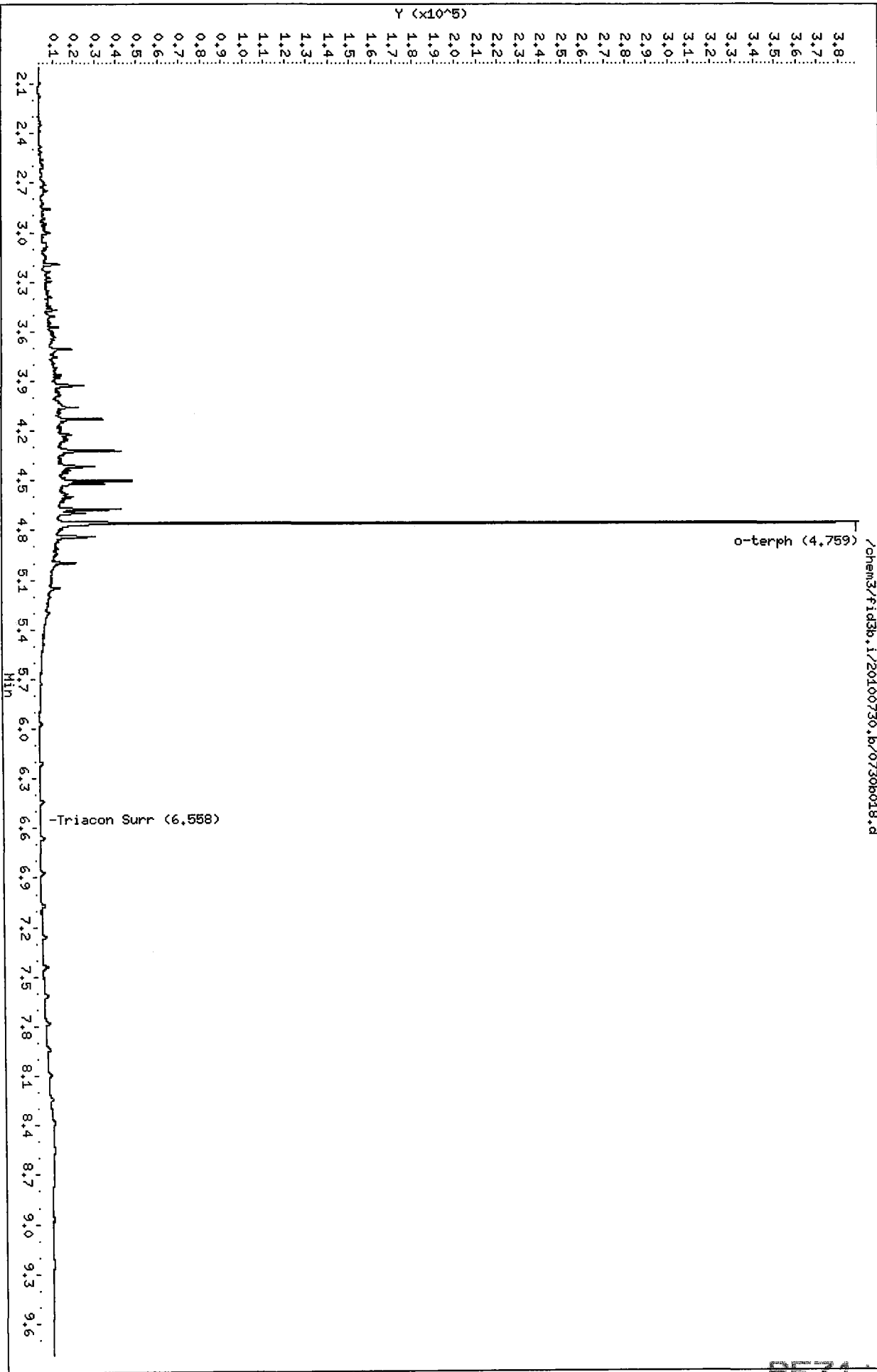
Surrogate	Area	Amount	%Rec
o-Terphenyl	176329	8.8	19.7
Triacontane	9	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b019.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 100
Client ID:
Injection: 30-JUL-2010 20:42
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	357151	13
C8	----				DIESEL (C12-C24)	2117036	99
C10	2.858	0.000	10639	8623	M.OIL (C24-C38)	49930	4
C12	3.467	-0.001	21033	17918	AK-102 (C10-C25)	2395904	99
C14	3.924	-0.003	50684	48589	AK-103 (C25-C36)	30461	3
C16	4.320	-0.001	89321	73174	OR.DIES (C10-C28)	2410790	114
C18	4.674	-0.001	82793	68218	OR.MOIL (C28-C40)	55412	5
C20	4.997	-0.001	44397	37760			
C22	5.295	-0.001	15167	18309	STODDARD (C8-C12)	357151	13
C24	5.601	-0.003	2183	553			
C25	5.767	0.003	1066	252			
C26	5.926	0.000	515	99			
C28	6.242	-0.003	97	42			
C32	6.845	-0.010	124	24			
C34	7.140	-0.002	297	98	CREOSOT (C8-C22)	2410629	377
Filter Peak	----						
C36	7.414	0.000	654	220	BUNKERC (C10-C38)	2440659	282
o-terph	4.761	-0.001	724883	349103	JET-A (C10-C18)	1787874	113
Triacon Surr	6.562	0.003	35	12	IT.MOIL (C24-C40)	75484	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

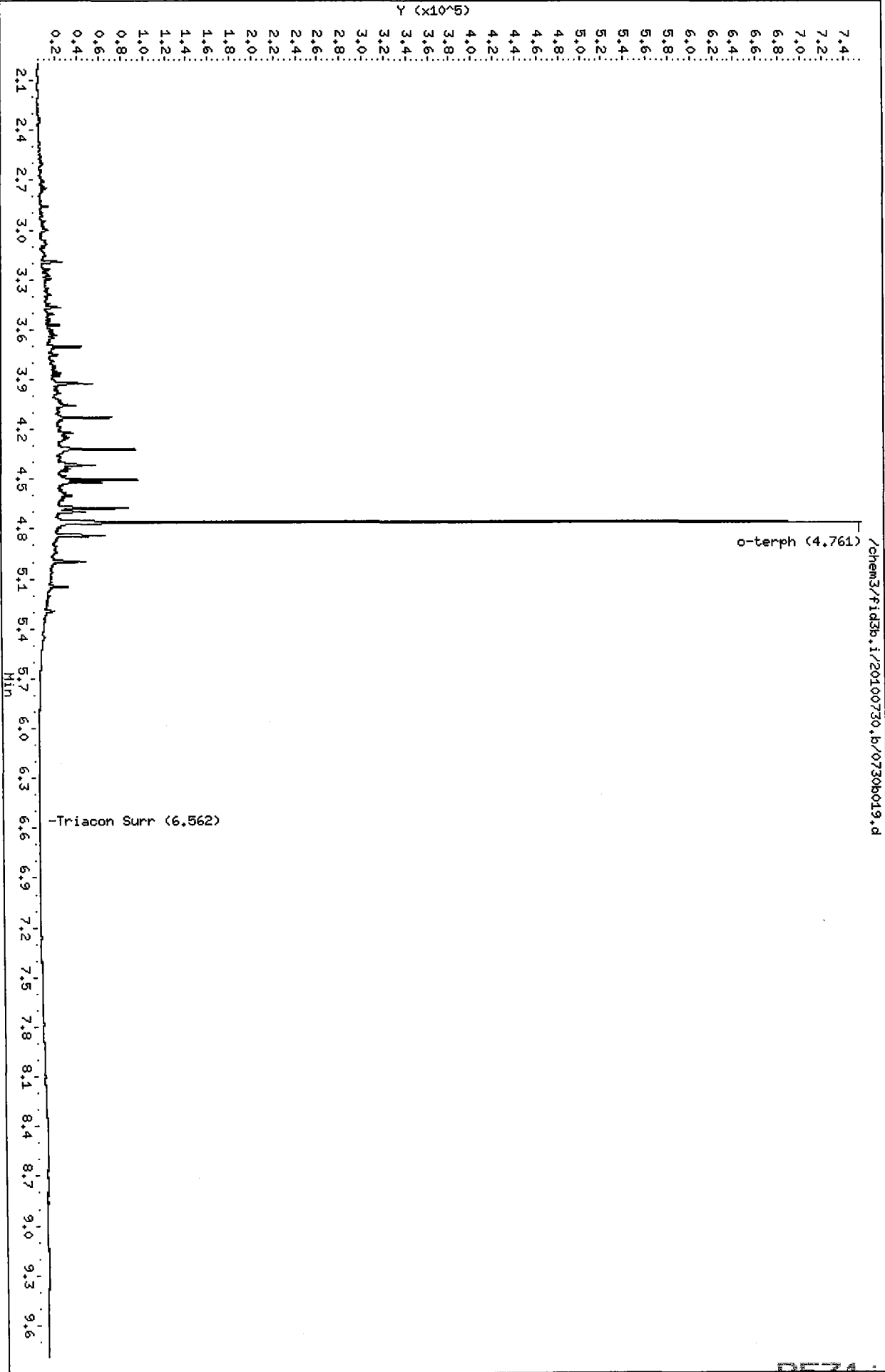
Surrogate	Area	Amount	%Rec
o-Terphenyl	349103	17.5	38.9
Triacontane	12	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b020.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 250
Client ID:
Injection: 30-JUL-2010 21:01
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	832540	30
C8	----				DIESEL (C12-C24)	5489470	257
C10	2.857	-0.001	26815	24142	M.OIL (C24-C38)	83893	7
C12	3.467	-0.001	68591	49107	AK-102 (C10-C25)	6156318	255
C14	3.925	-0.002	140104	127189	AK-103 (C25-C36)	56030	6
C16	4.321	0.000	232770	207768	OR.DIES (C10-C28)	6196310	294
C18	4.675	0.000	208305	168485	OR.MOIL (C28-C40)	57280	5
C20	4.996	-0.001	126032	107297			
C22	5.293	-0.003	50635	46451	STODDARD (C8-C12)	832540	30
C24	5.604	0.001	9772	11489			
C25	5.766	0.003	3129	1191			
C26	5.921	-0.004	1314	959			
C28	6.242	-0.002	220	92			
C32	6.846	-0.010	82	35			
C34	7.139	-0.002	240	125	CREOSOT (C8-C22)	6143951	961
Filter Peak	----						
C36	7.415	0.002	533	105	BUNKERC (C10-C38)	6227250	720
o-terph	4.763	0.001	1611540	900101	JET-A (C10-C18)	4563495	288
Triacon Surr	6.553	-0.006	23	12	IT.MOIL (C24-C40)	110245	5

Range Times: NW Diesel (3.518 - 5.653) NW Gas (0.983 - 3.518) NW M.Oil (5.653 - 7.720)
AK102 (2.808 - 5.714) AK103 (5.714 - 7.463) Jet A (2.808 - 4.725)

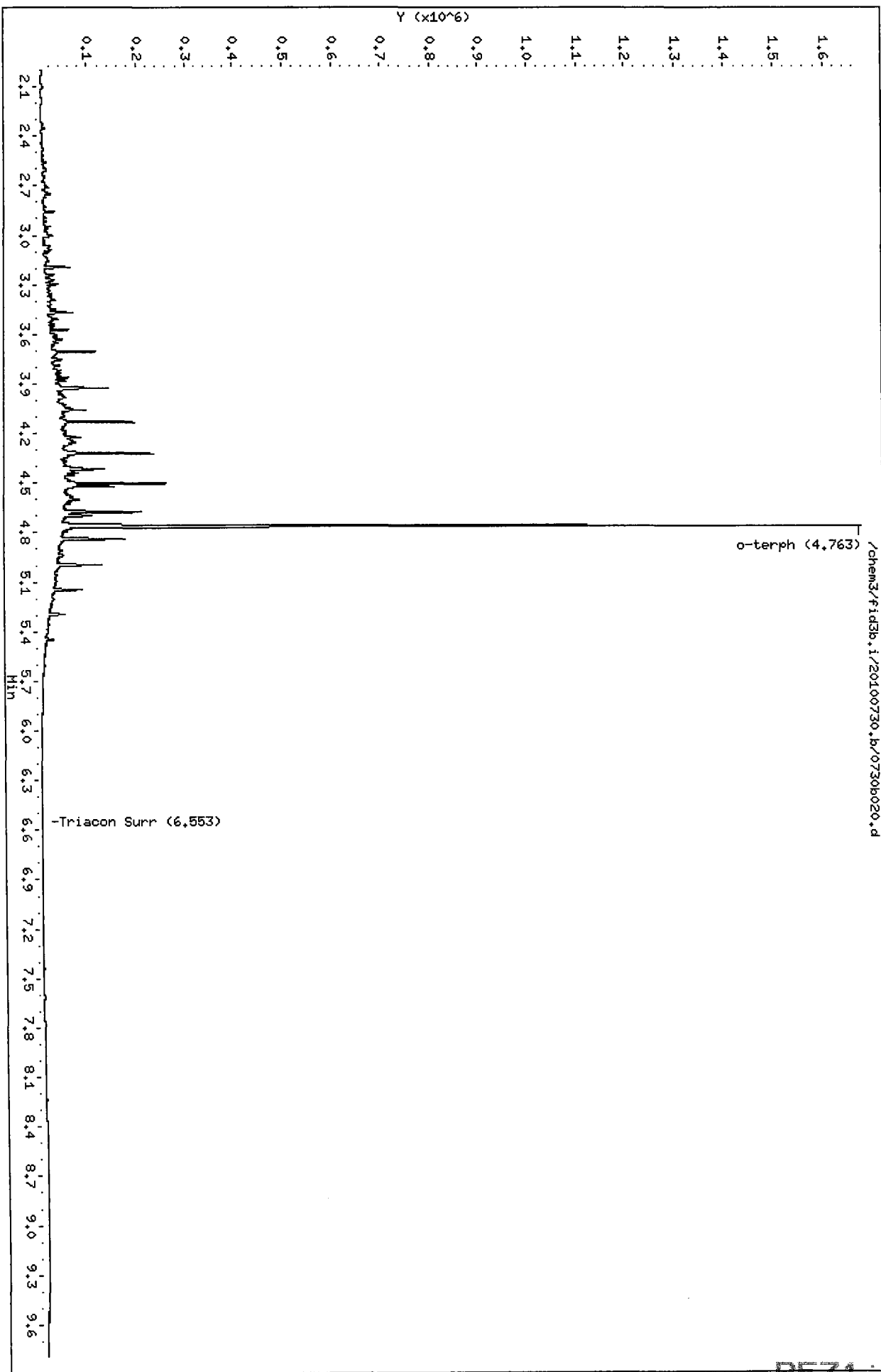
Surrogate	Area	Amount	%Rec
o-Terphenyl	900101	45.2	100.3
Triacontane	12	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b021.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 500
Client ID:
Injection: 30-JUL-2010 21:20
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	1605957	59
C8	----				DIESEL (C12-C24)	10782573	504
C10	2.859	0.001	57423	40767	M.OIL (C24-C38)	193569	16
C12	3.467	-0.001	150148	107232	AK-102 (C10-C25)	12080374	501
C14	3.925	-0.002	281705	192683	AK-103 (C25-C36)	138842	16
C16	4.321	0.000	459275	397727	OR.DIES (C10-C28)	12158488	577
C18	4.676	0.001	438078	346941	OR.MOIL (C28-C40)	138643	12
C20	4.998	0.000	247680	229025			
C22	5.294	-0.002	107189	91506	STODDARD (C8-C12)	1605957	58
C24	5.603	-0.001	25044	36788			
C25	5.764	0.000	8933	11255			
C26	5.928	0.002	2767	880			
C28	6.244	0.000	417	209			
C32	6.866	0.010	6270	6679			
C34	7.138	-0.003	199	114	CREOSOT (C8-C22)	12025891	1880
Filter Peak	----						
C36	7.404	-0.009	435	170	BUNKERC (C10-C38)	12247345	1417
o-terph	4.766	0.004	2832336	1779428	JET-A (C10-C18)	8975857	566
Triacon Surr	6.562	0.003	37	8	IT.MOIL (C24-C40)	243363	11

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1779428	89.3	198.4
Triacotane	8	0.0	0.0

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: AM Date: 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date: 30-JUL-2010 21:20

Client ID:

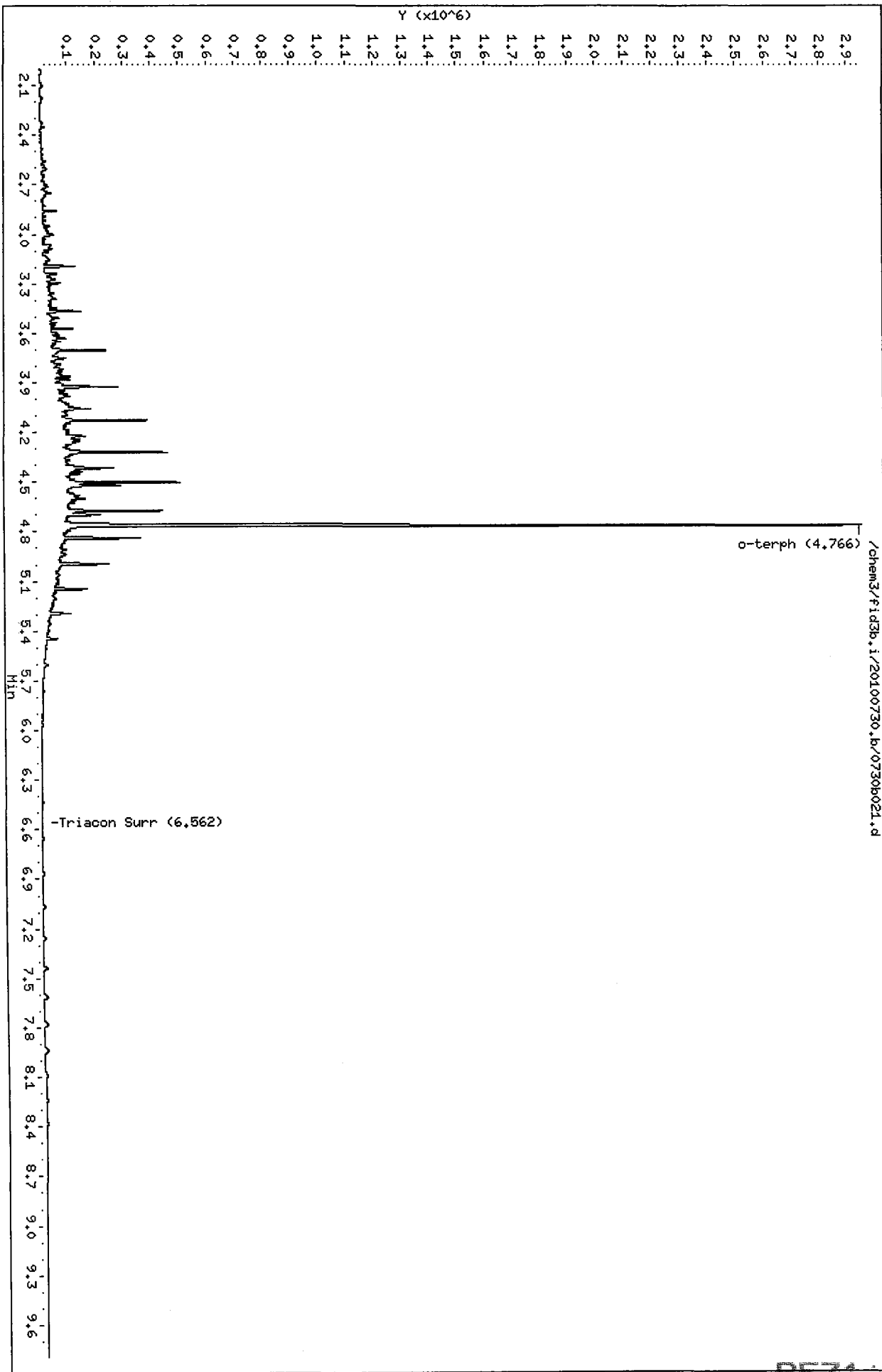
Instrument: fid3b.i

Sample Info: DIESEL 500

Operator: HS

Column phase: RTX-1

Column diameter: 2.00



RF 71 : 01 000

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b022.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 1000
Client ID:
Injection: 30-JUL-2010 21:39
Dilution Factor: 1

FID:3B RESULTS							
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	3183656	116
C8	----				DIESEL (C12-C24)	21008398	982
C10	2.859	0.001	116245	79992	M.OIL (C24-C38)	246197	20
C12	3.468	0.000	303568	209857	AK-102 (C10-C25)	23623694	980
C14	3.926	-0.001	587854	482277	AK-103 (C25-C36)	175618	20
C16	4.323	0.002	905598	796869	OR.DIES (C10-C28)	23782497	1128
C18	4.678	0.002	807496	638826	OR.MOIL (C28-C40)	50889	5
C20	4.998	0.000	504752	389992			
C22	5.295	-0.001	227321	199991	STODDARD (C8-C12)	3183656	115
C24	5.602	-0.001	59793	78521			
C25	5.763	-0.001	23276	31928			
C26	5.926	0.000	7146	5485			
C28	6.246	0.002	980	756			
C32	6.846	-0.010	31	8			
C34	7.142	0.001	155	78	CREOSOT (C8-C22)	23499171	3674
Filter Peak	----						
C36	7.412	-0.001	462	183	BUNKERC (C10-C38)	23812236	2755
o-terph	4.774	0.012	5143602	3623484	JET-A (C10-C18)	17422692	1099
Triacon Surr	6.558	-0.001	143	74	IT.MOIL (C24-C40)	267420	12

Range Times: NW Diesel (3.518 - 5.653) NW Gas (0.983 - 3.518) NW M.Oil (5.653 - 7.720)
AK102 (2.808 - 5.714) AK103 (5.714 - 7.463) Jet A (2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3623484	181.8	403.9
Triacontane	74	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst DM Date 8/3/10

Data File: /chem3/fid3b.i/20100730.b/0730b022.d

Date: 30-JUL-2010 21:39

Client ID:

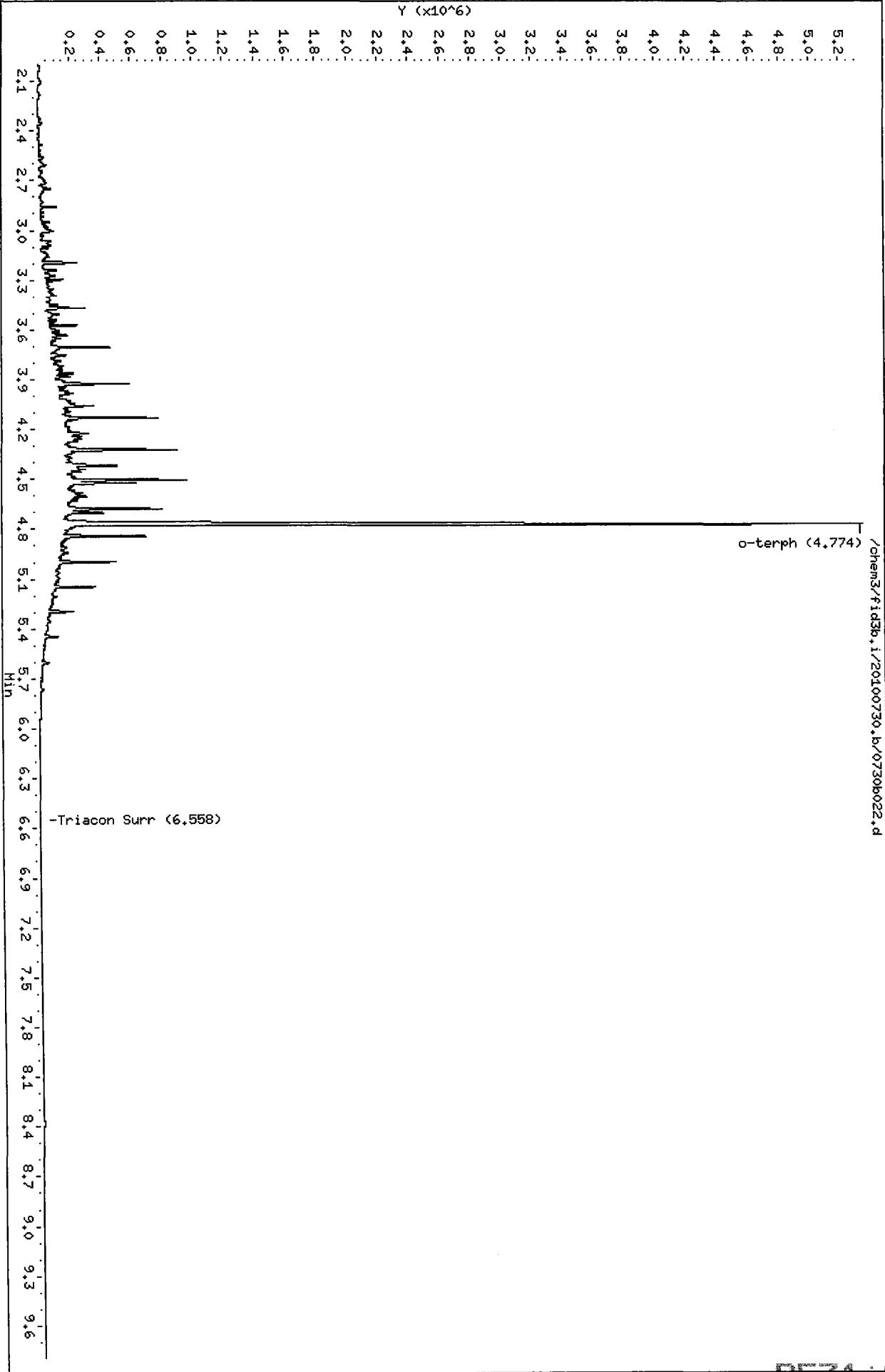
Sample Info: DIESEL 1000

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b023.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 2500
Client ID:
Injection: 30-JUL-2010 21:58
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	7659234	280
C8	----				DIESEL (C12-C24)	51163096	2391
C10	2.863	0.005	285421	198918	M.OIL (C24-C38)	572344	47
C12	3.470	0.002	694665	522755	AK-102 (C10-C25)	57436252	2383
C14	3.929	0.002	1273547	1199224	AK-103 (C25-C36)	425535	48
C16	4.326	0.004	2112542	1828650	OR.DIES (C10-C28)	57835068	2742
C18	4.683	0.007	1755535	1805295	OR.MOIL (C28-C40)	53128	5
C20	5.002	0.005	1242586	994726			
C22	5.298	0.002	554784	489931	STODDARD (C8-C12)	7659234	277
C24	5.604	0.001	157104	182807			
C25	5.764	0.000	68790	96490			
C26	5.924	-0.001	24943	35913			
C28	6.241	-0.003	2845	707			
C32	6.847	-0.009	103	17			
C34	7.140	-0.001	80	25	CREOSOT (C8-C22)	57023201	8915
Filter Peak	----						
C36	7.414	0.001	258	70	BUNKERC (C10-C38)	57869869	6695
o-terph	4.787	0.025	8993833	9320882	JET-A (C10-C18)	42325036	2671
Triacon Surr	6.558	-0.002	576	210	IT.MOIL (C24-C40)	590881	27

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	9320882	467.6	1039.1
Triacotane	210	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Client ID:

Sample Info: DIESEL 2500

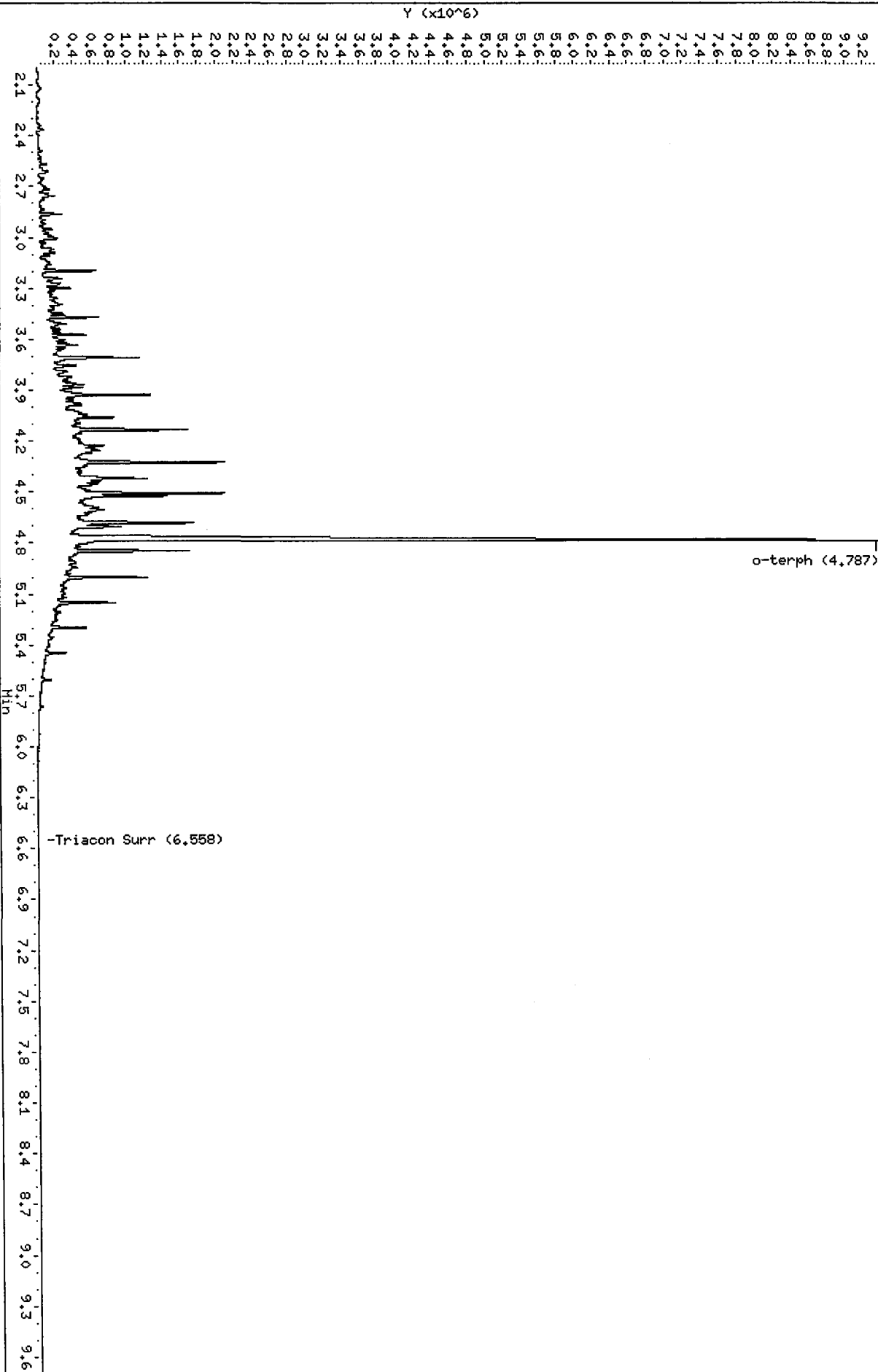
Column phase: RTX-1

Instrument: fid3b.i

Operator: NS

Column diameter: 2.00

/chem3/fid3b.i/20100730.b/0730b023.d



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b024.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL ICV
Client ID:
Injection: 30-JUL-2010 22:17
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	1033627	38
C8	----				DIESEL (C12-C24)	6633491	310
C10	2.859	0.001	35248	24957	M.OIL (C24-C38)	127459	11
C12	3.467	0.000	86410	59948	AK-102 (C10-C25)	7469067	310
C14	3.926	-0.001	173324	148864	AK-103 (C25-C36)	93021	10
C16	4.320	-0.001	296816	249967	OR.DIES (C10-C28)	7515320	356
C18	4.676	0.000	273795	228555	OR.MOIL (C28-C40)	99093	9
C20	4.997	-0.001	155638	143379			
C22	5.294	-0.002	60394	56049	STODDARD (C8-C12)	1033627	37
C24	5.605	0.002	13282	16336			
C25	5.765	0.001	4054	633			
C26	5.927	0.001	1441	1201			
C28	6.248	0.004	261	48			
C32	6.870	0.014	5168	4822			
C34	7.140	-0.001	246	62	CREOSOT (C8-C22)	7455713	1166
Filter Peak	----						
C36	7.410	-0.003	515	121	BUNKERC (C10-C38)	7579454	877
o-terph	4.764	0.002	2022776	1079874	JET-A (C10-C18)	5495826	347
Triacon Surr	6.562	0.003	18	7	IT.MOIL (C24-C40)	162424	8

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

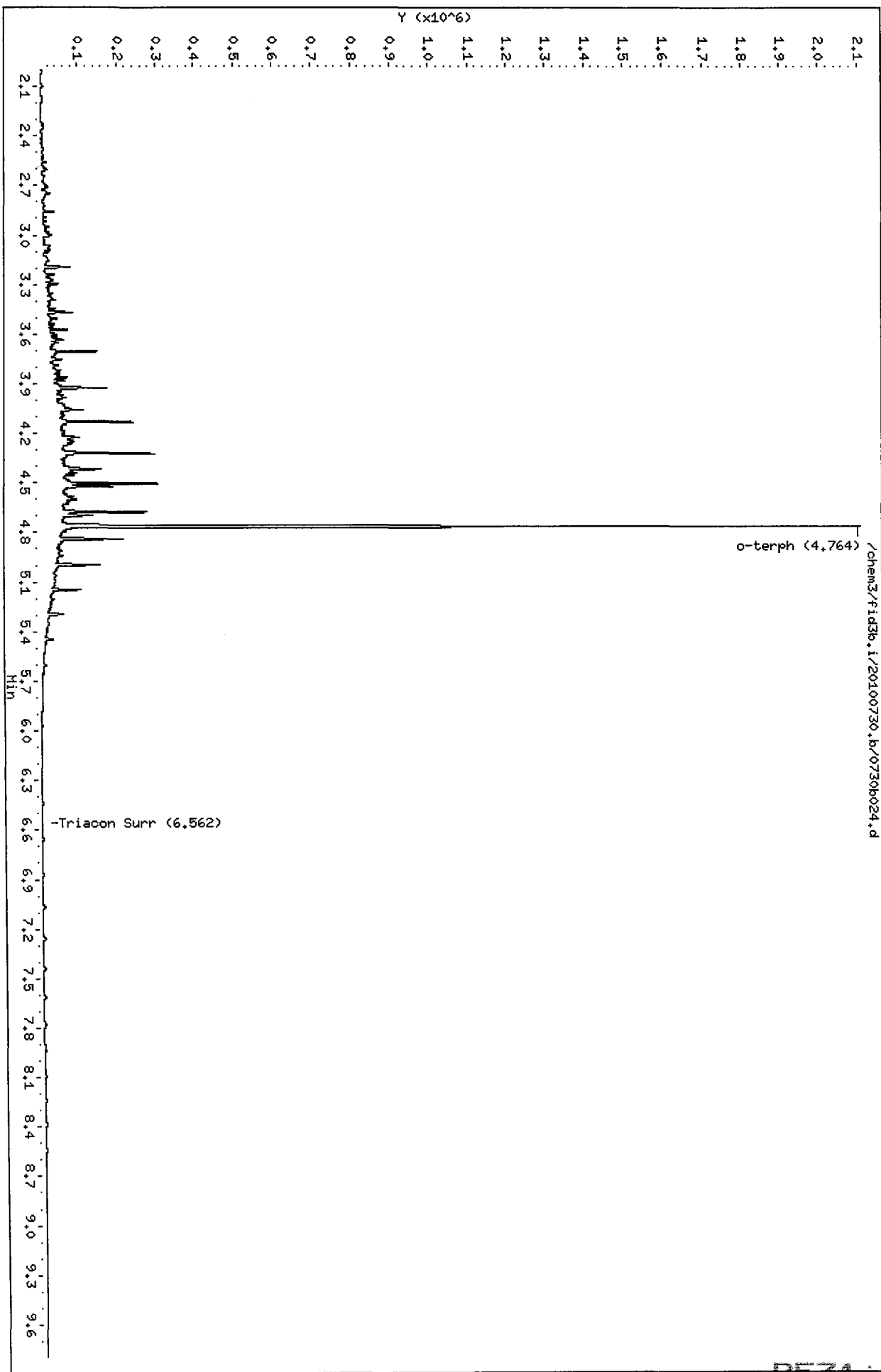
Surrogate	Area	Amount	%Rec
o-Terphenyl	1079874	54.2	120.4
Triacontane	7	0.0	0.0

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b025.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 100
Client ID:
Injection: 30-JUL-2010 22:36
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	59389	2
C8	----				DIESEL (C12-C24)	136639	6
C10	2.861	0.003	1070	391	M.OIL (C24-C38)	1262007	104
C12	3.472	0.004	808	323	AK-102 (C10-C25)	192127	8
C14	3.925	-0.002	408	197	AK-103 (C25-C36)	1074099	120
C16	4.325	0.003	148	52	OR.DIES (C10-C28)	467661	22
C18	4.673	-0.002	50	17	OR.MOIL (C28-C40)	1110594	99
C20	5.000	0.003	534	84			
C22	5.298	0.002	2675	836	STODDARD (C8-C12)	59389	2
C24	5.605	0.002	5233	917			
C25	5.764	0.000	6238	1108			
C26	5.924	-0.002	7918	3299			
C28	6.245	0.001	9206	1987			
C32	6.858	0.002	12172	4066			
C34	7.140	-0.001	12960	3267	CREOSOT (C8-C22)	118096	18
Filter Peak	----						
C36	7.413	-0.001	11888	4717	BUNKERC (C10-C38)	1435110	166
o-terph	4.766	0.004	653	656	JET-A (C10-C18)	58172	4
Triacon Surr	6.558	-0.001	177130	133653	IT.MOIL (C24-C40)	1538805	72

Range Times: NW Diesel (3.518 - 5.653) NW Gas (0.983 - 3.518) NW M.Oil (5.653 - 7.720)
AK102 (2.808 - 5.714) AK103 (5.714 - 7.463) Jet A (2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	656	0.0	0.1
Triacontane	133653	8.0	17.8

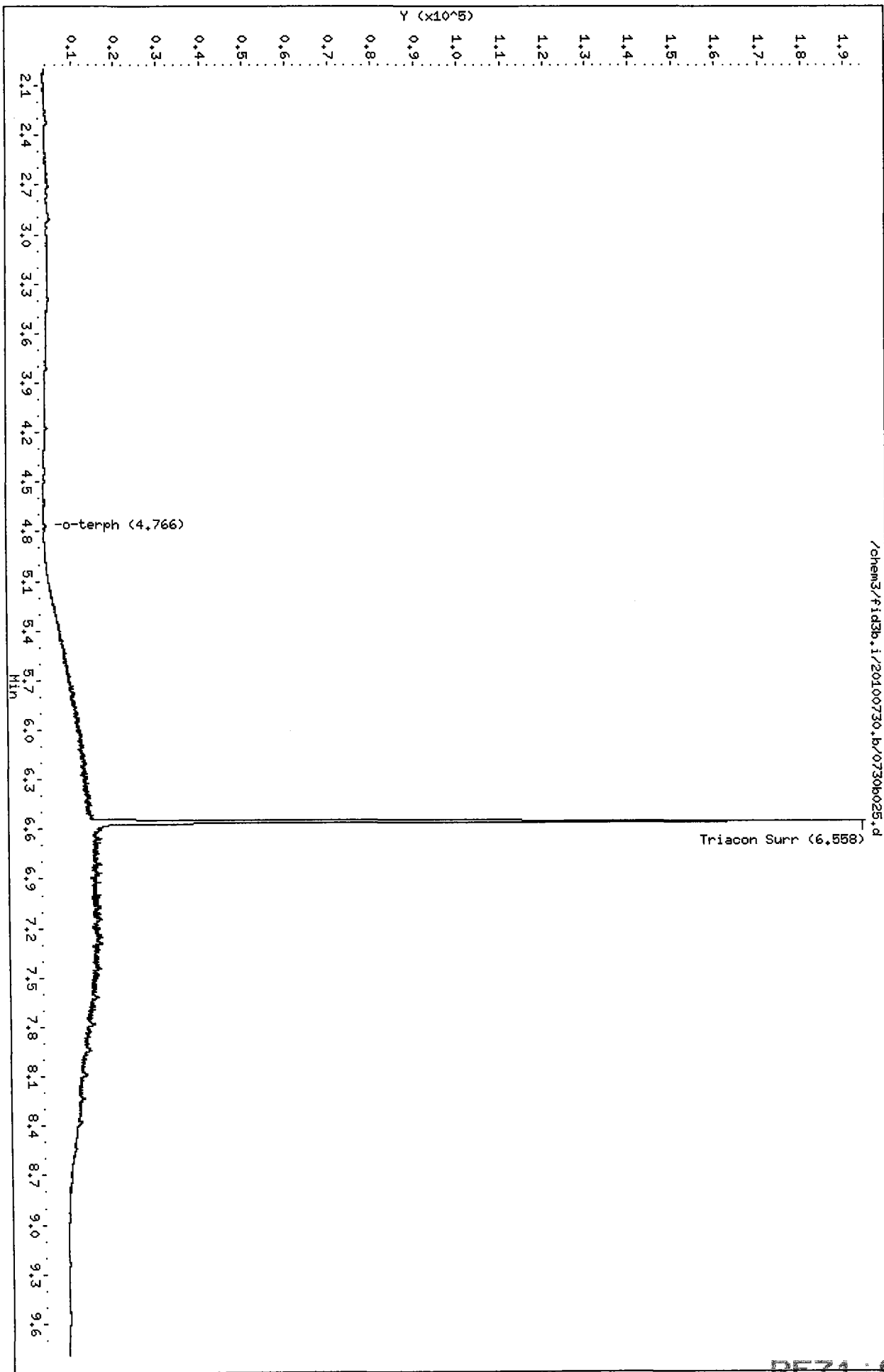
Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst MS Date 8/3/10

Data File: /chem3/fid3b.i/20100730.b/0730b025.d
Date : 30-JUL-2010 22:36
Client ID:
Sample Info: M01L 100
Column phase: RTX-1

Instrument: fid3b.i
Operator: MS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b026.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 250
Client ID:
Injection: 30-JUL-2010 22:55
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	54421	2
C8	----				DIESEL (C12-C24)	322420	15
C10	2.860	0.002	1106	911	M.OIL (C24-C38)	2941763	243
C12	3.466	-0.001	692	284	AK-102 (C10-C25)	405267	17
C14	3.923	-0.003	393	183	AK-103 (C25-C36)	2523700	283
C16	4.322	0.001	138	66	OR.DIES (C10-C28)	1063179	50
C18	4.673	-0.002	150	79	OR.MOIL (C28-C40)	2531012	224
C20	4.999	0.002	1661	707			
C22	5.293	-0.003	6646	2620	STODDARD (C8-C12)	54421	2
C24	5.603	0.000	12926	3044			
C25	5.760	-0.003	15791	3992			
C26	5.923	-0.002	18737	5063			
C28	6.240	-0.004	22766	17103			
C32	6.855	0.000	29395	10185			
C34	7.138	-0.003	29817	13225	CREOSOT (C8-C22)	176037	28
Filter Peak	----						
C36	7.411	-0.002	26300	7168	BUNKERC (C10-C38)	3299187	382
o-terph	4.763	0.002	758	732	JET-A (C10-C18)	56598	4
Triacon Surr	6.557	-0.002	441016	356482	IT.MOIL (C24-C40)	3593249	167

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	732	0.0	0.1
Triacontane	356482	21.3	47.4

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst AM Date 8/2/10

Date : 30-JUL-2010 22:55

Client ID:

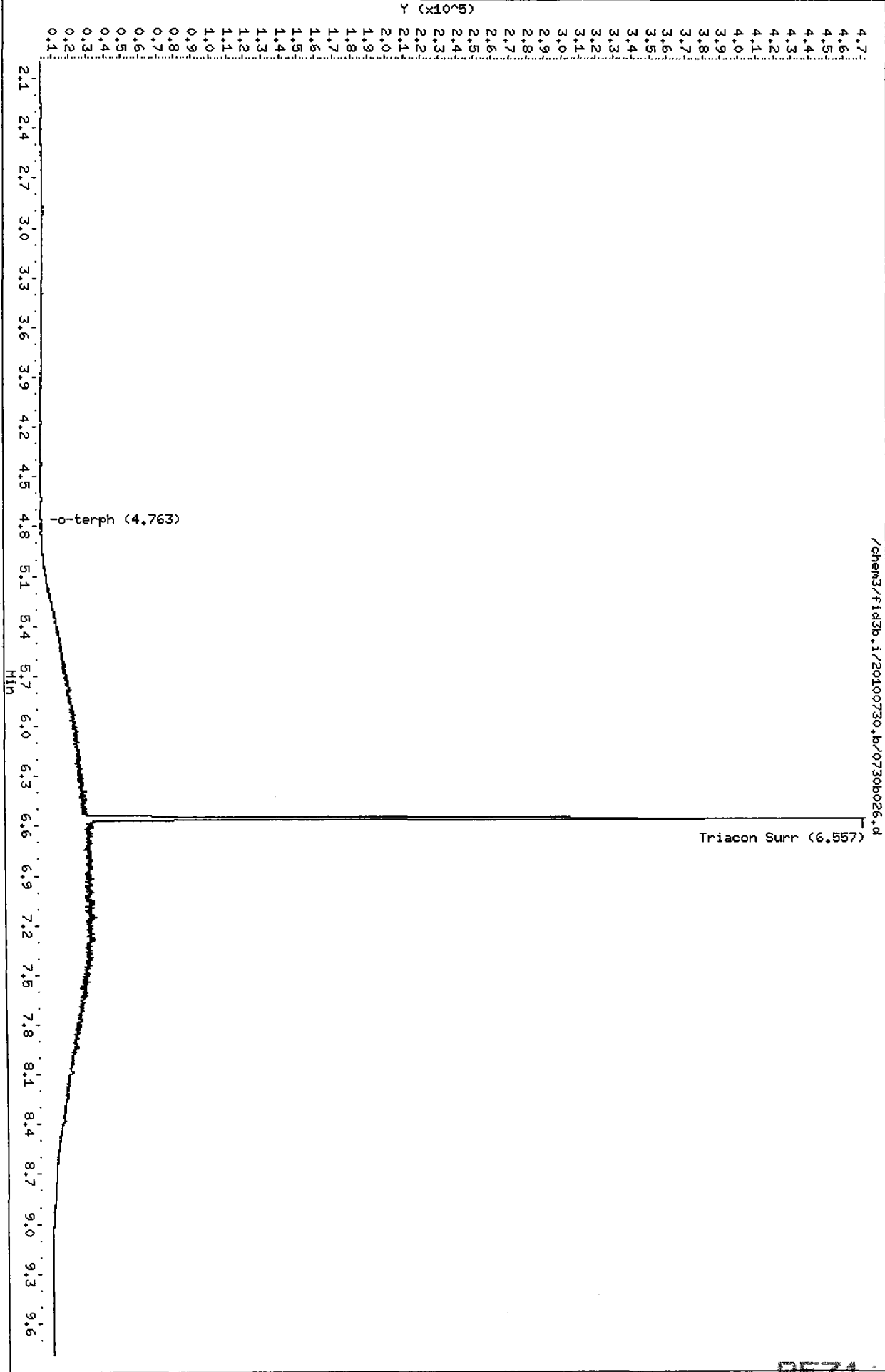
Instrument: fid3b,i

Sample Info: H01L 250

Column phase: RTX-1

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b027.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 500
Client ID:
Injection: 30-JUL-2010 23:14
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	61429	2
C8	----				DIESEL (C12-C24)	661397	31
C10	2.856	-0.002	1273	310	M.OIL (C24-C38)	5897444	488
C12	3.467	-0.001	772	289	AK-102 (C10-C25)	796757	33
C14	3.922	-0.005	525	176	AK-103 (C25-C36)	5098876	571
C16	4.319	-0.002	278	113	OR.DIES (C10-C28)	2129868	101
C18	4.674	-0.001	552	196	OR.MOIL (C28-C40)	5025371	446
C20	4.998	0.000	3647	716			
C22	5.292	-0.004	14044	4392	STODDARD (C8-C12)	61429	2
C24	5.604	0.000	27326	15789			
C25	5.766	0.002	33190	10855			
C26	5.924	-0.002	38046	12688			
C28	6.245	0.000	48533	19176			
C32	6.858	0.002	63236	21003			
C34	7.139	-0.002	59785	13961	CREOSOT (C8-C22)	311324	49
Filter Peak	----						
C36	7.414	0.000	57110	39334	BUNKERC (C10-C38)	6597535	763
o-terph	4.762	0.000	1198	1526	JET-A (C10-C18)	73818	5
Triacon Surr	6.561	0.001	859319	761480	IT.MOIL (C24-C40)	7216629	336

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1526	0.1	0.2
Triacotane	761480	45.5	101.2

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
- ③ Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Date : 30-JUL-2010 23:14

Client ID:

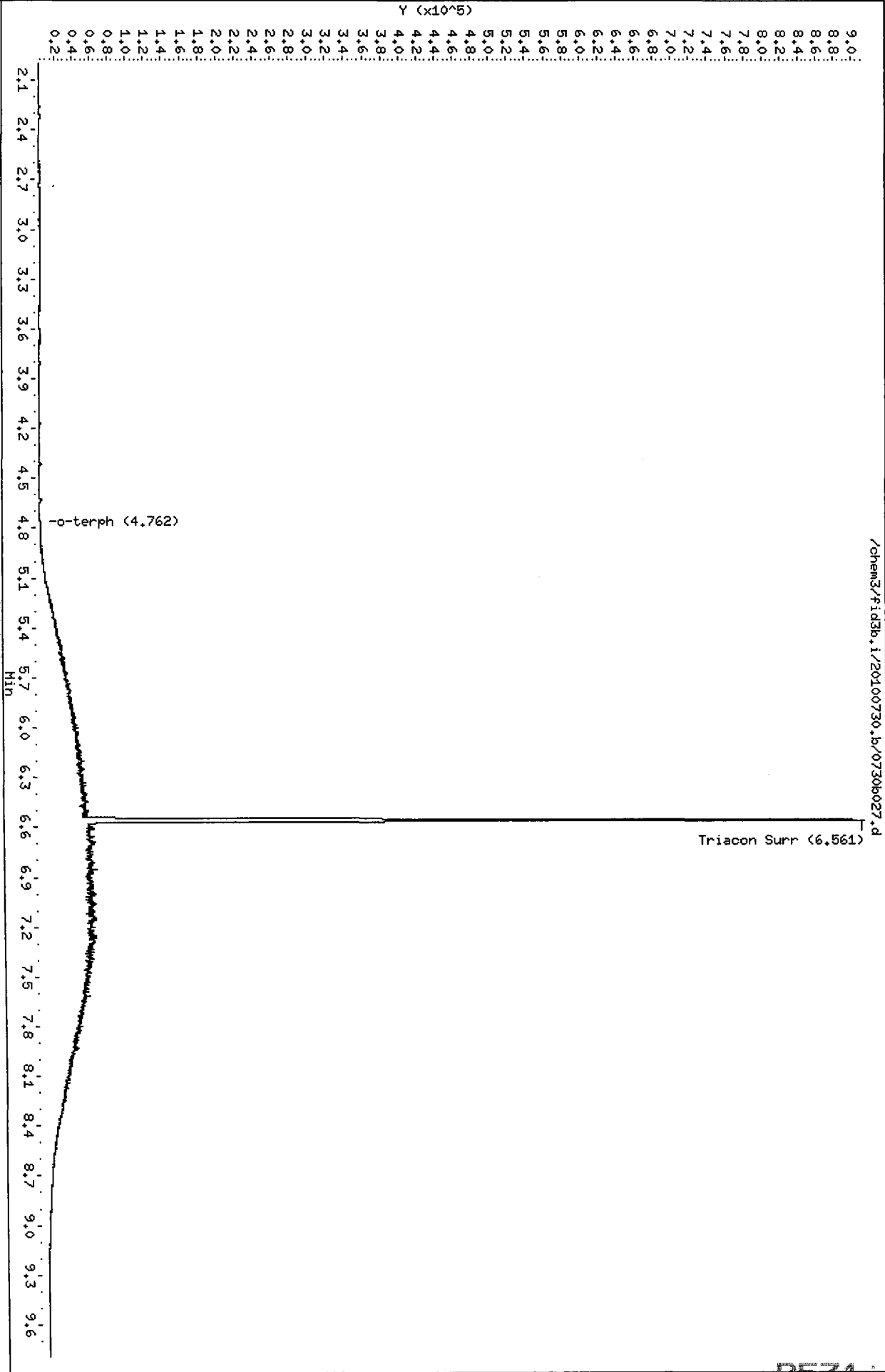
Instrument: fid3b.i

Sample Info: HOIL 500

Column phase: RTX-1

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b028.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 1000
Client ID:
Injection: 30-JUL-2010 23:32
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	72637	3
C8	----				DIESEL (C12-C24)	1386989	65
C10	2.858	0.001	1897	1836	M.OIL (C24-C38)	11886809	984
C12	3.470	0.002	1037	577	AK-102 (C10-C25)	1637290	68
C14	3.925	-0.001	834	432	AK-103 (C25-C36)	10178714	1140
C16	4.322	0.001	584	148	OR.DIES (C10-C28)	4288810	203
C18	4.677	0.002	1434	588	OR.MOIL (C28-C40)	10179667	903
C20	5.000	0.003	8627	6697			
C22	5.298	0.003	30407	15588	STODDARD (C8-C12)	72637	3
C24	5.601	-0.002	56341	40257			
C25	5.767	0.003	70210	55090			
C26	5.924	-0.001	76118	32730			
C28	6.246	0.002	93898	37136			
C32	6.854	-0.002	121094	45621			
C34	7.141	0.000	119577	41572	CREOSOT (C8-C22)	609564	95
Filter Peak	----						
C36	7.409	-0.004	114138	61669	BUNKERC (C10-C38)	13321155	1541
o-terph	4.758	-0.003	2740	1977	JET-A (C10-C18)	111596	7
Triacon Surr	6.568	0.009	1661068	1573813	IT.MOIL (C24-C40)	14607944	680

Range Times: NW Diesel (3.518 - 5.653) NW Gas (0.983 - 3.518) NW M.Oil (5.653 - 7.720)
AK102 (2.808 - 5.714) AK103 (5.714 - 7.463) Jet A (2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1977	0.1	0.2
Triacontane	1573813	94.1	209.1

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/2/10

Data File: /chem3/fid3b.i/20100730.b/0730b028.d

Date : 30-JUL-2010 23:32

Client ID:

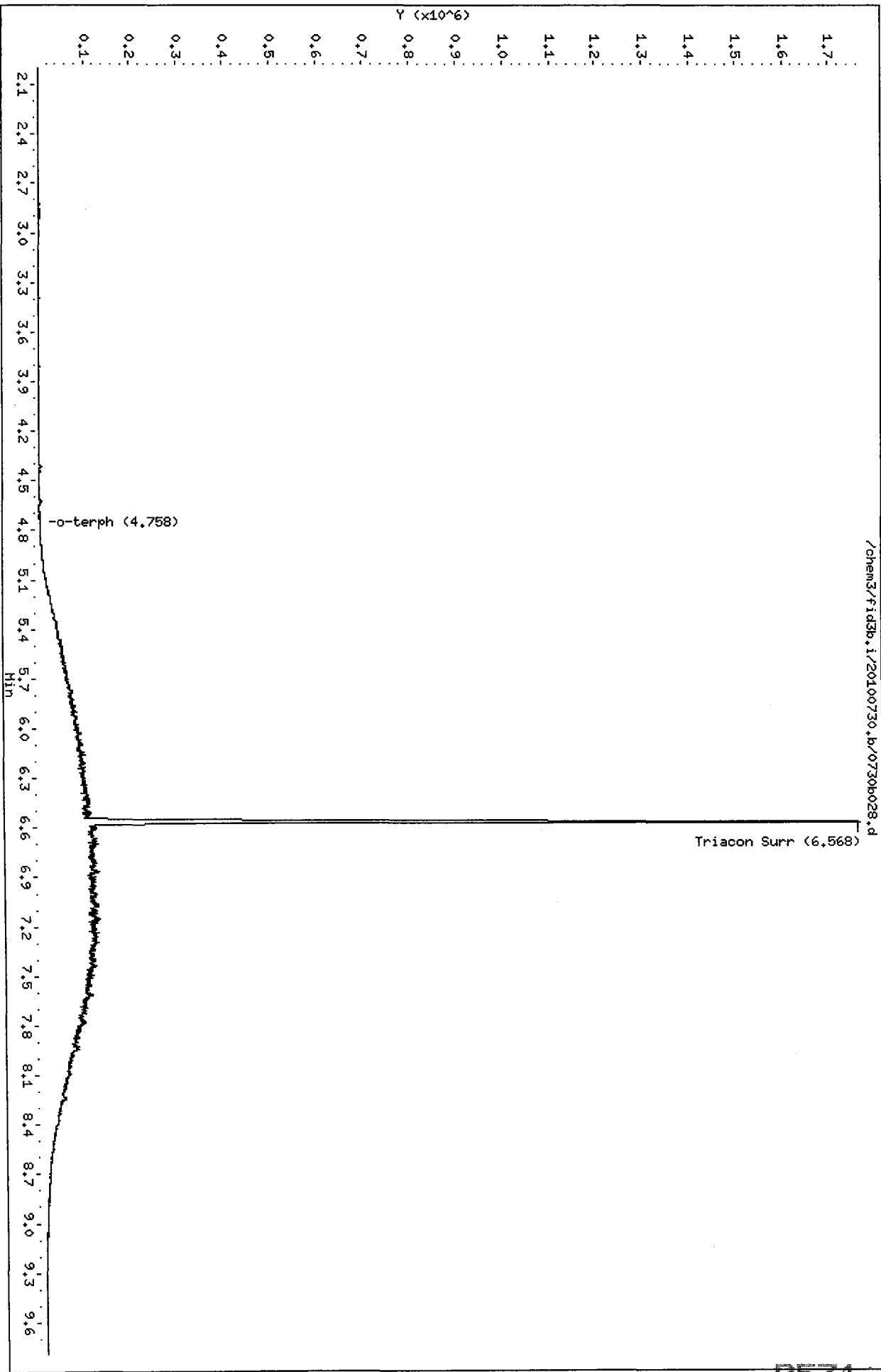
Sample Info: M01L 1000

Column Phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



20100730

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b030.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 2500
Client ID:
Injection: 31-JUL-2010 00:10
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	95636	3
C8	----				DIESEL (C12-C24)	3379394	158
C10	2.857	-0.001	3357	3375	M.OIL (C24-C38)	29202636	2417
C12	3.471	0.003	1596	1868	AK-102 (C10-C25)	3927075	163
C14	3.927	0.001	1514	356	AK-103 (C25-C36)	25147326	2815
C16	4.322	0.001	1563	1411	OR.DIES (C10-C28)	10612044	503
C18	4.676	0.001	3568	4270	OR.MOIL (C28-C40)	24702816	2191
C20	4.996	-0.001	22446	7349			
C22	5.295	-0.001	73882	30652	STODDARD (C8-C12)	95636	3
C24	5.605	0.002	133400	26133			
C25	5.762	-0.001	165074	51876			
C26	5.928	0.002	188516	86981			
C28	6.238	-0.006	233688	182539			
C32	6.857	0.001	290957	171974			
C34	7.138	-0.003	286943	126318	CREOSOT (C8-C22)	1390131	217
Filter Peak	----						
C36	7.411	-0.002	275697	173060	BUNKERC (C10-C38)	32647668	3777
o-terph	4.758	-0.004	6196	3899	JET-A (C10-C18)	200291	13
Triacon Surr	6.581	0.022	3417562	3785244	IT.MOIL (C24-C40)	35655072	1659

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3899	0.2	0.4
Triacotane	3785244	226.3	502.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Data File: /chem3/fid3b.i/20100730.b/0730b030.d

Date : 31-JUL-2010 00:10

Client ID:

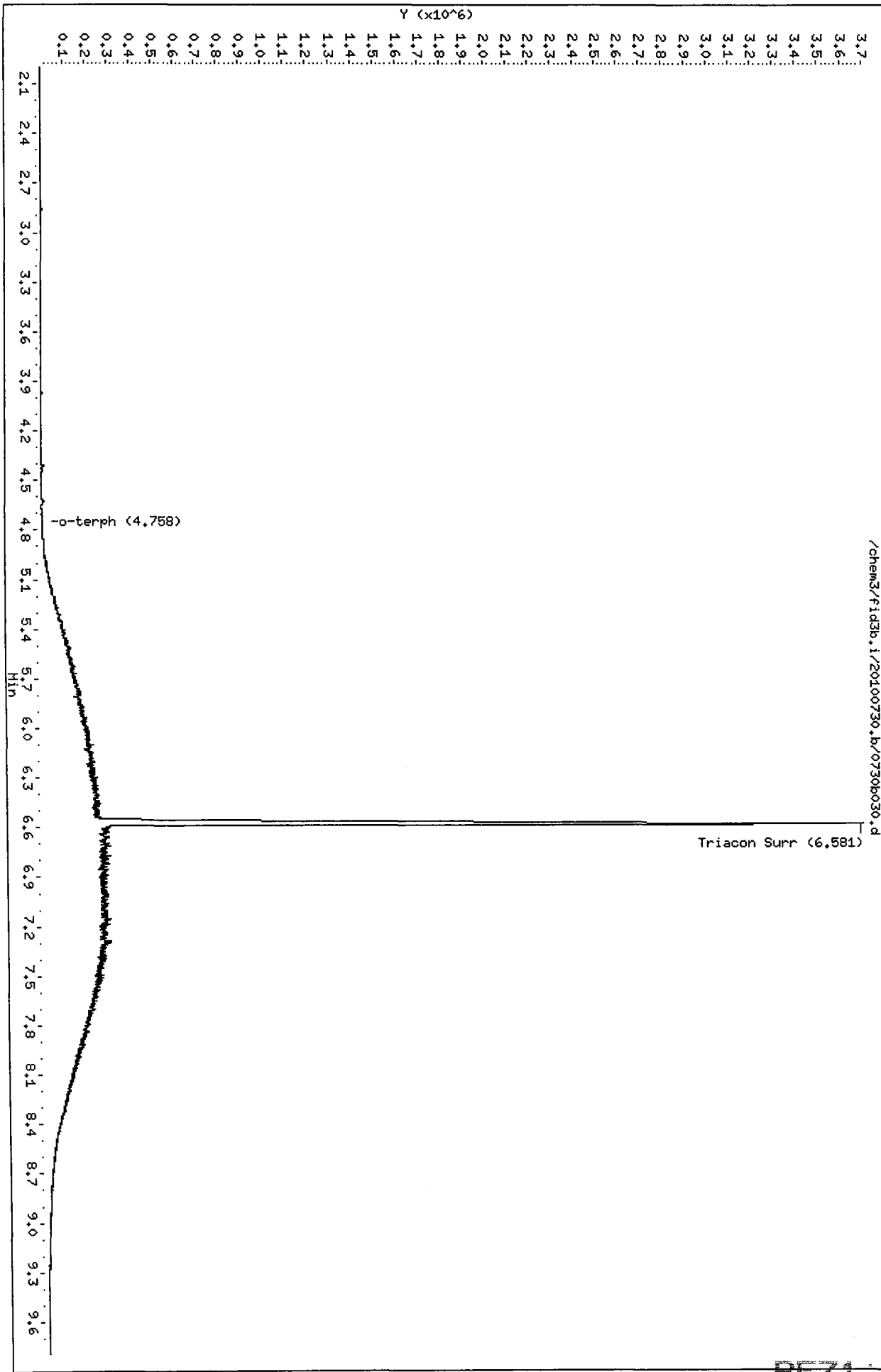
Sample Info: M01L 2500

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RF 71 : 01 01 01

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b032.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 5000
Client ID:
Injection: 31-JUL-2010 00:47
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.031	0	0	GAS (Tol-C12)	136516	5
C8	----				DIESEL (C12-C24)	7391085	345
C10	2.860	0.002	6390	7826	M.OIL (C24-C38)	63692911	5272
C12	3.468	0.001	3090	3308	AK-102 (C10-C25)	8576883	356
C14	3.927	0.001	2902	3119	AK-103 (C25-C36)	55274954	6188
C16	4.322	0.002	3356	5579	OR.DIES (C10-C28)	23215807	1101
C18	4.674	0.000	7922	8796	OR.MOIL (C28-C40)	53459904	4742
C20	4.996	-0.002	47935	10434			
C22	5.294	-0.001	159044	57913	STODDARD (C8-C12)	136516	5
C24	5.606	0.003	294534	135002			
C25	5.760	-0.004	341829	114396			
C26	5.924	0.001	403139	246862			
C28	6.245	0.001	500056	192227			
C32	6.855	0.000	584755	116103			
C34	7.144	0.002	614284	191733	CREOSOT (C8-C22)	2916422	456
Filter Peak	----						
C36	7.412	-0.002	608306	208570	BUNKERC (C10-C38)	71180905	8235
o-terph	4.757	-0.005	12189	7421	JET-A (C10-C18)	369371	23
Triacon Surr	6.604	0.043	5116443	8293814	IT.MOIL (C24-C40)	77481531	3606

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	7421	0.4	0.8
Triacotane	8293814	495.9	1101.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: *[Signature]* Date: *8/2/10*

Data File: /chem3/fid3b.i/20100730.b/0730b032.d

Date: 31-JUL-2010 00:47

Client ID:

Sample Info: MOIL 5000

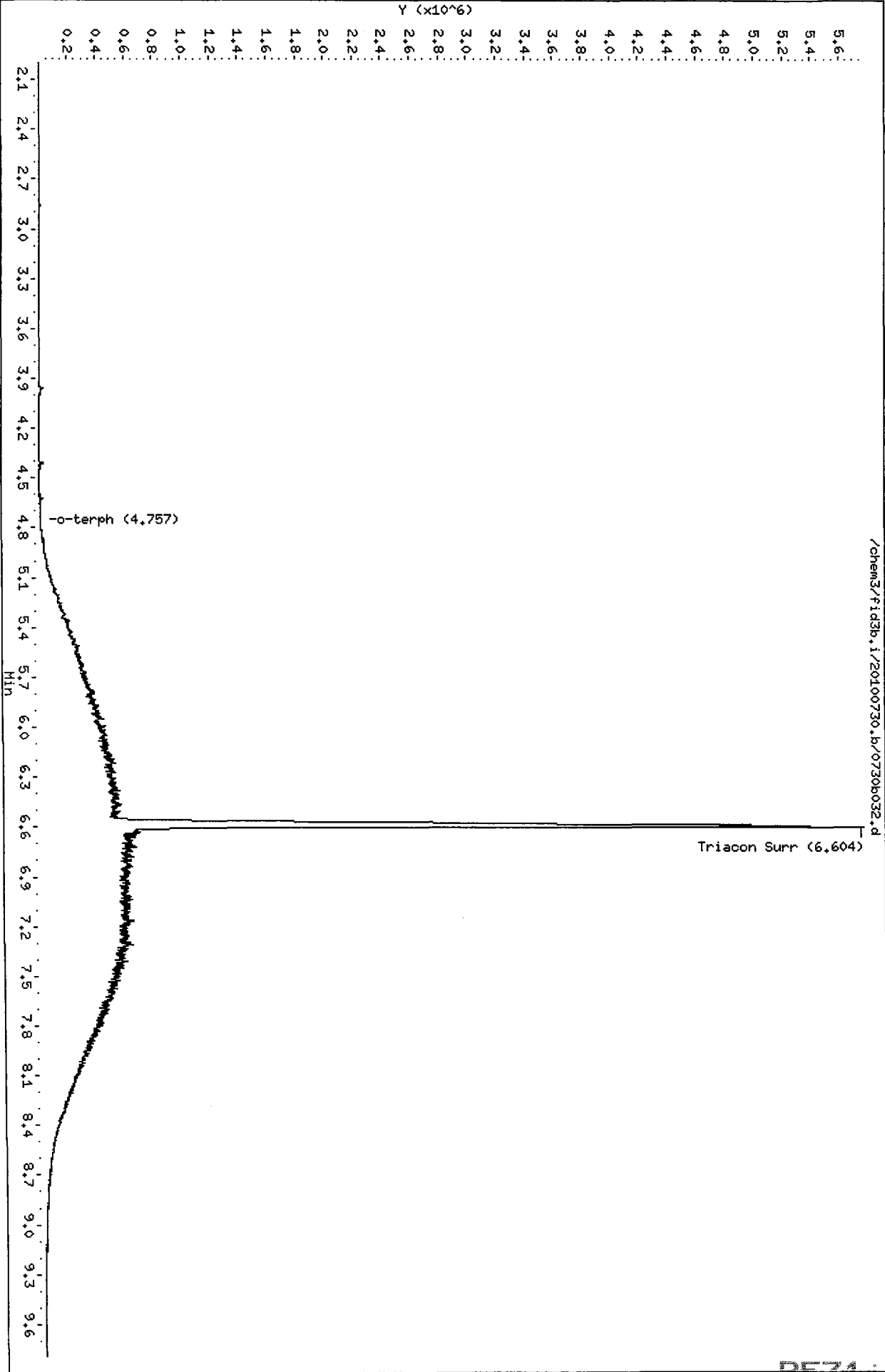
Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b034.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL ICV
Client ID:
Injection: 31-JUL-2010 01:25
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	69710	3
C8	----				DIESEL (C12-C24)	654549	31
C10	2.860	0.002	1401	800	M.OIL (C24-C38)	5780310	478
C12	3.466	-0.002	844	283	AK-102 (C10-C25)	785151	33
C14	3.928	0.001	611	154	AK-103 (C25-C36)	4978956	557
C16	4.325	0.004	330	255	OR.DIES (C10-C28)	2137357	101
C18	4.676	0.001	610	174	OR.MOIL (C28-C40)	4899131	435
C20	4.999	0.002	3728	881			
C22	5.295	-0.001	14759	8671	STODDARD (C8-C12)	69710	3
C24	5.604	0.001	26635	20138			
C25	5.767	0.003	34354	20126			
C26	5.925	-0.001	38360	10923			
C28	6.242	-0.003	45237	26594			
C32	6.858	0.003	58973	16709			
C34	7.142	0.000	60409	28174	CREOSOT (C8-C22)	326198	51
Filter Peak	----						
C36	7.410	-0.003	54496	40370	BUNKERC (C10-C38)	6478679	750
o-terph	4.761	-0.001	1177	942	JET-A (C10-C18)	83224	5
Triacon Surr	6.561	0.002	862303	736311	IT.MOIL (C24-C40)	7074431	329

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	942	0.0	0.1
Triacontane	736311	44.0	97.8

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

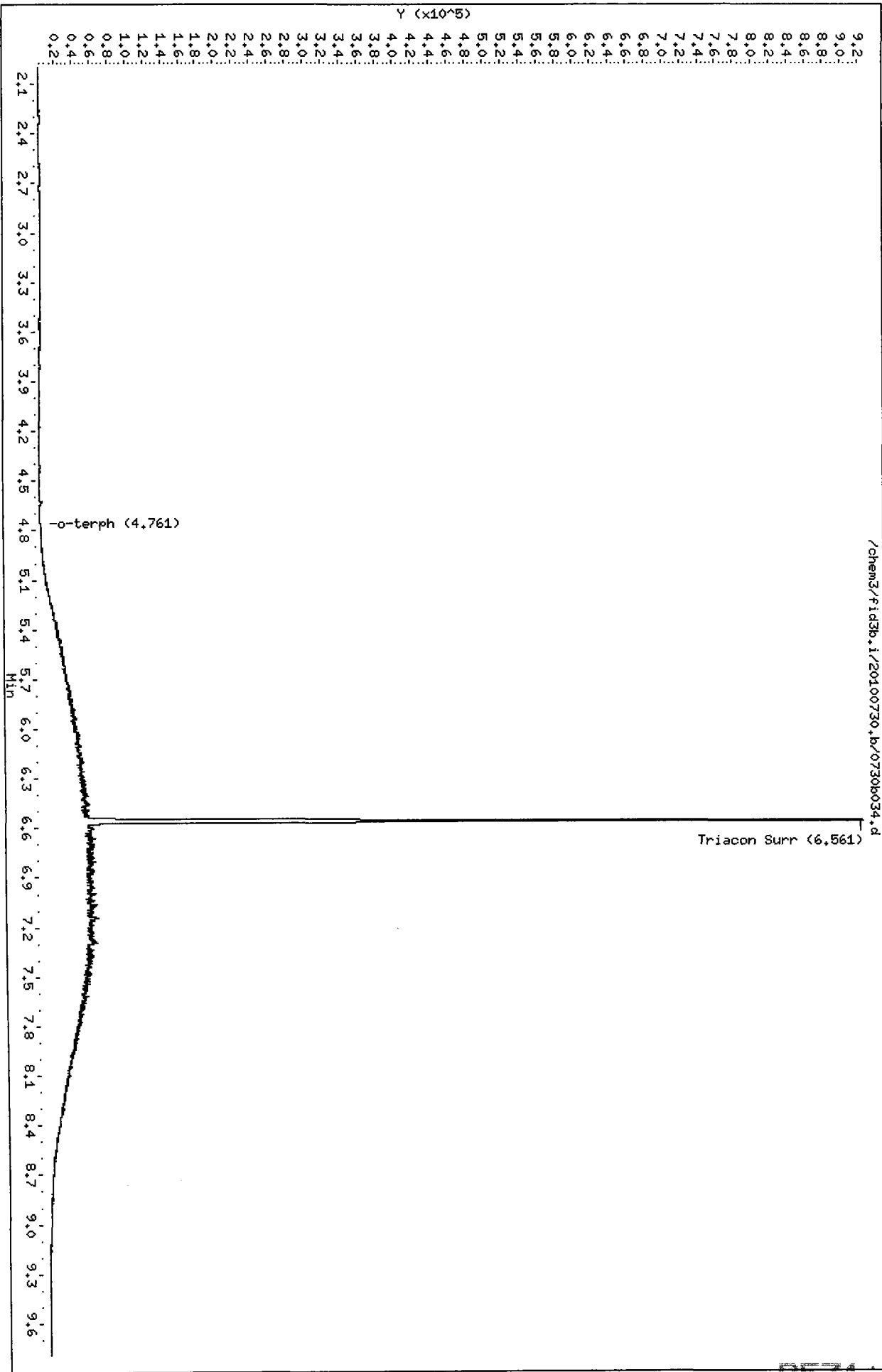
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst

Date

[Handwritten Signature]
Date *8/3/10*



001101: 1112

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/fid3b.i/20100730.b

ARI Job No. : DIES Method: i/20100730.b/ftp/fid3b.m Instrument: fid3b.i Date: 30-JUL-2010

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
2023	0730b018.d	DIESEL	50	1	o-terph,
2042	0730b019.d	DIESEL	100	1	o-terph,
2101	0730b020.d	DIESEL	250	1	o-terph,
2120	0730b021.d	DIESEL	500	1	o-terph,
2139	0730b022.d	DIESEL	1000	1	o-terph,
2158	0730b023.d	DIESEL	2500	1	o-terph,
2217	0730b024.d	DIESEL	ICV	1	o-terph,
2236	0730b025.d	MOIL	100	1	Triacon Surr,
2255	0730b026.d	MOIL	250	1	Triacon Surr,
2314	0730b027.d	MOIL	500	1	Triacon Surr,
2332	0730b028.d	MOIL	1000	1	Triacon Surr,
2351	0730b029.d	RINSE		1	NO MANUAL INTEGRATION
0010	0730b030.d	MOIL	2500	1	Triacon Surr,
0028	0730b031.d	RINSE		1	NO MANUAL INTEGRATION
0047	0730b032.d	MOIL	5000	1	Triacon Surr,
0106	0730b033.d	RINSE		1	NO MANUAL INTEGRATION
0125	0730b034.d	MOIL	ICV	1	Triacon Surr,

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b018.d ARI ID: DIESEL 50
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 20:23
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	203100	7
C8	----				DIESEL (C12-C24)	1073736	50
C10	2.859	0.001	5638	4849	M.OIL (C24-C38)	63488	5
C12	3.468	0.001	8865	7583	AK-102 (C10-C25)	1226764	51
C14	3.925	-0.001	21926	23612	AK-103 (C25-C36)	40579	5
C16	4.321	0.000	39235	39802	OR.DIES (C10-C28)	1237681	59
C18	4.674	-0.001	39296	35683	OR.MOIL (C28-C40)	78683	7
C20	4.998	0.000	18246	22375			
C22	5.299	0.003	5339	5505	STODDARD (C8-C12)	203100	7
C24	5.597	-0.006	1196	621			
C25	5.760	-0.003	625	310			
C26	5.922	-0.003	296	159			
C28	6.242	-0.002	52	16			
C32	6.842	-0.013	172	67			
C34	7.141	0.000	373	160	CREOSOT (C8-C22)	1243658	194
Filter Peak	----						
C36	7.411	-0.002	735	302	BUNKERC (C10-C38)	1286685	149
o-terph	4.759	-0.003	385477	213275	JET-A (C10-C18)	945094	60
Triacon Surr	6.558	-0.001	38	9	IT.MOIL (C24-C40)	93176	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	213275	10.7	23.8
Triacotane	9	0.0	0.0

M8/310

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 30-JUL-2010 20:23

Client ID:

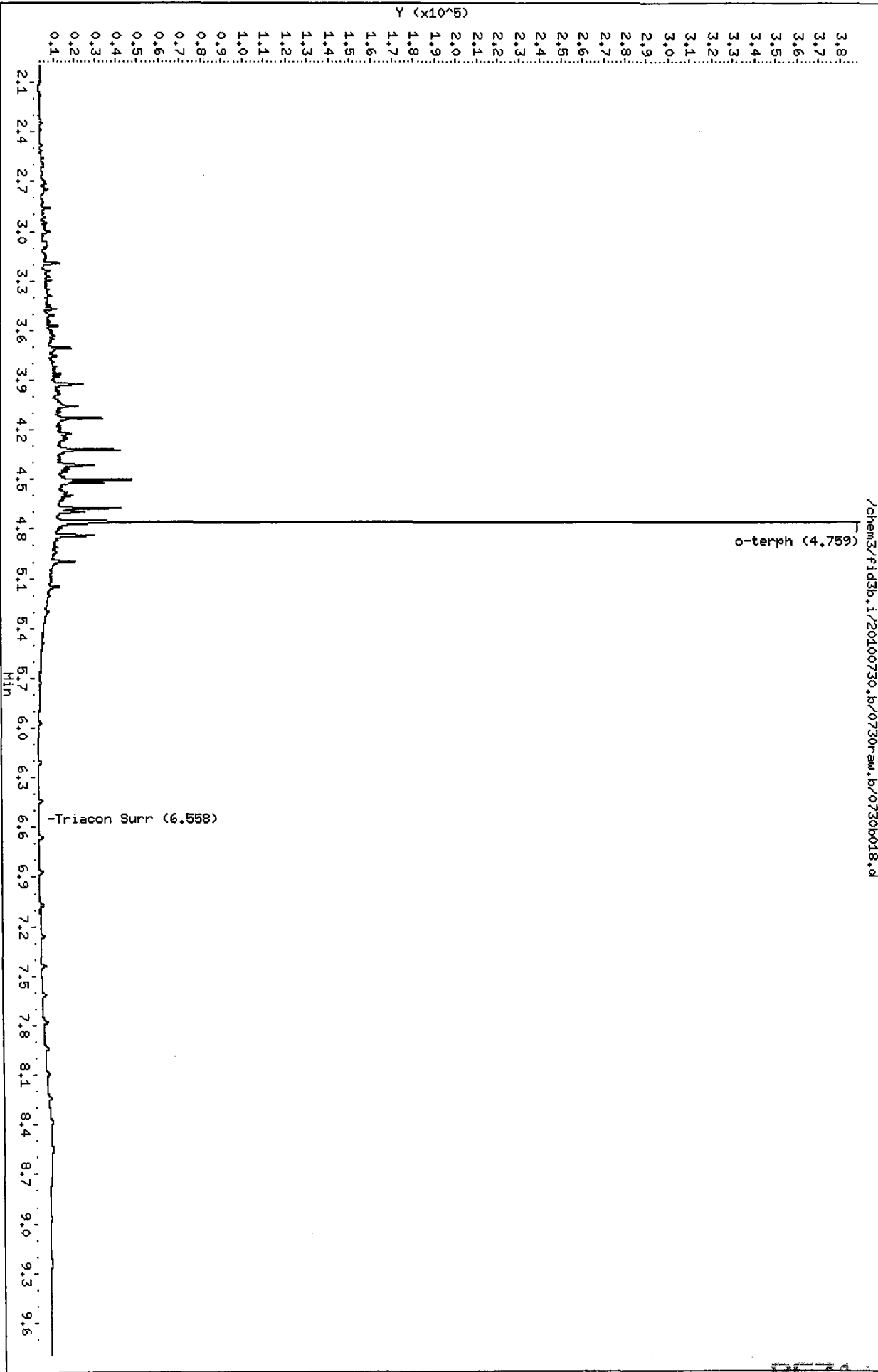
Instrument: fid3b.i

Sample Info: DIESEL 50

Operator: MS

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b019.d ARI ID: DIESEL 100
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 20:42
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	357151	13
C8	----				DIESEL (C12-C24)	2033528	95
C10	2.858	0.000	10639	8623	M.OIL (C24-C38)	49930	4
C12	3.467	-0.001	21033	17918	AK-102 (C10-C25)	2312396	96
C14	3.924	-0.003	50684	48589	AK-103 (C25-C36)	30461	3
C16	4.320	-0.001	89321	73174	OR.DIES (C10-C28)	2327282	110
C18	4.674	-0.001	82793	68218	OR.MOIL (C28-C40)	55412	5
C20	4.997	-0.001	44397	37760			
C22	5.295	-0.001	15167	18309	STODDARD (C8-C12)	357151	13
C24	5.601	-0.003	2183	553			
C25	5.767	0.003	1066	252			
C26	5.926	0.000	515	99			
C28	6.242	-0.003	97	42			
C32	6.845	-0.010	124	24			
C34	7.140	-0.002	297	98	CREOSOT (C8-C22)	2327121	364
Filter Peak	----						
C36	7.414	0.000	654	220	BUNKERC (C10-C38)	2357151	273
o-terph	4.761	-0.001	752336	432246	JET-A (C10-C18)	1787874	113
Triacon Surr	6.562	0.003	35	12	IT.MOIL (C24-C40)	75484	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	432246	21.7	48.2
Triacotane	12	0.0	0.0

ms 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730rsw.b/0730b019.d

Date : 30-JUL-2010 20:42

Client ID:

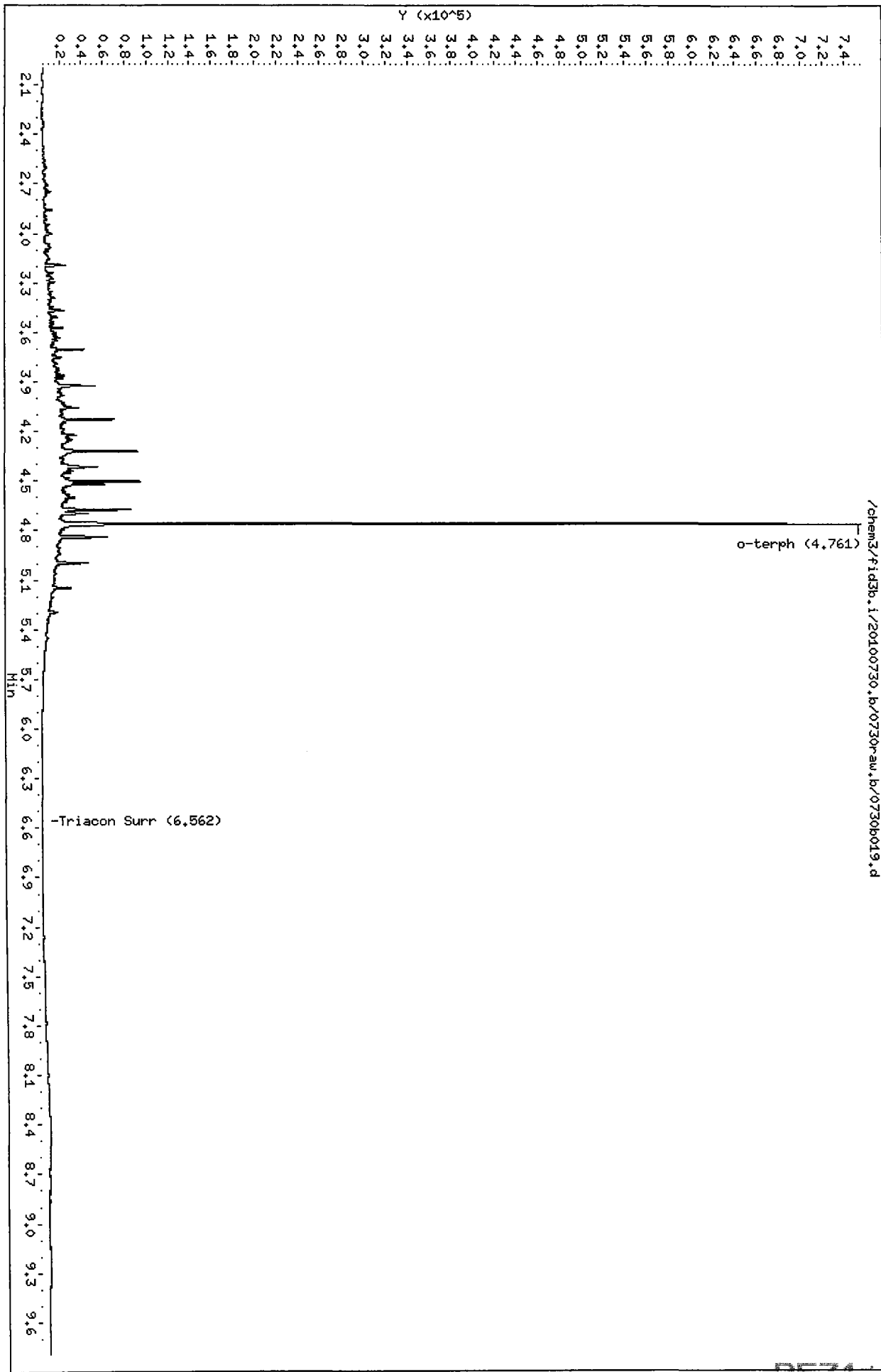
Sample Info: DIESEL 100

Column Phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



RF71:01113

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b020.d ARI ID: DIESEL 250
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:01
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

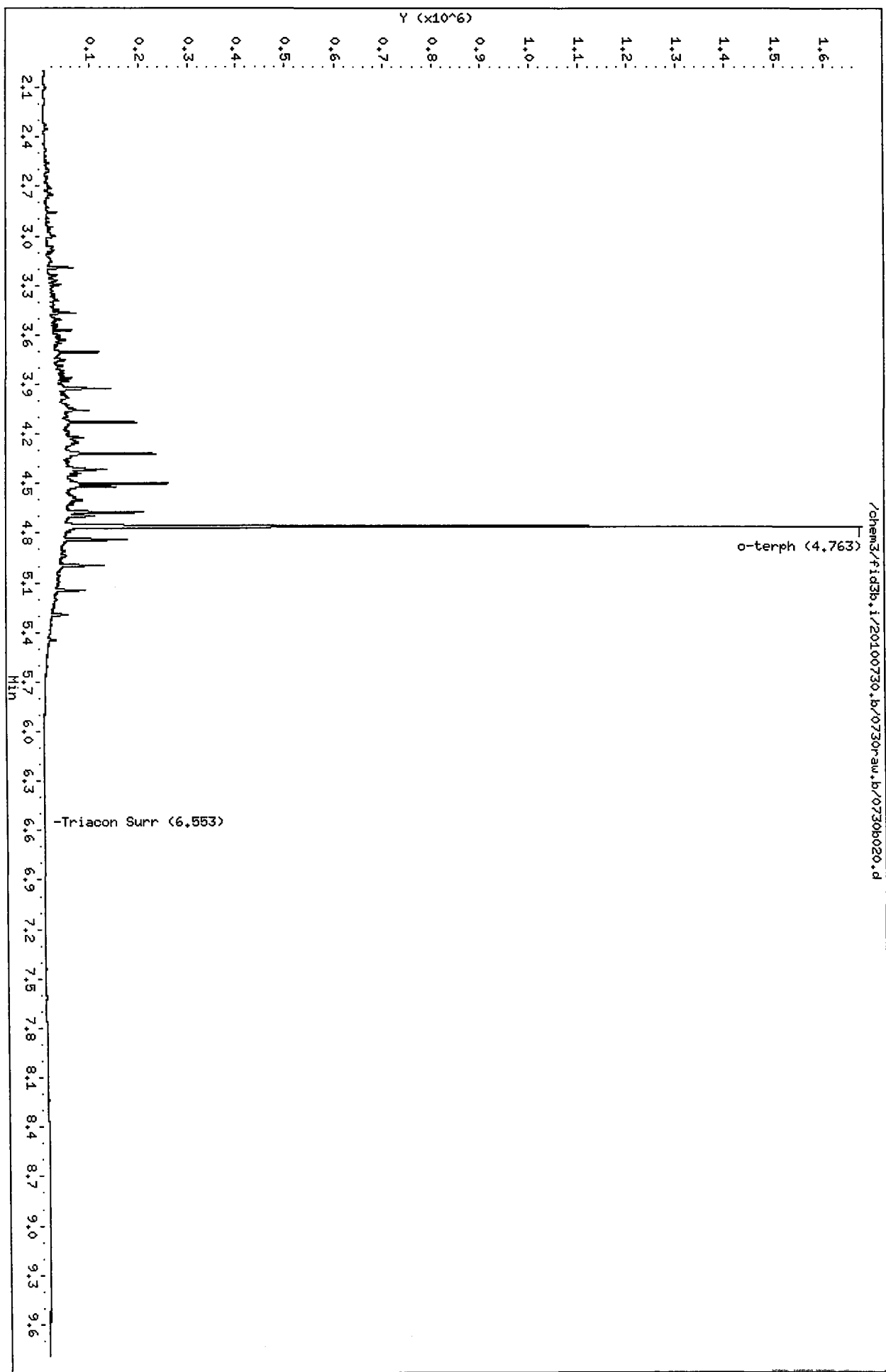
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	832540	30
C8	----				DIESEL (C12-C24)	5381486	252
C10	2.857	-0.001	26815	24142	M.OIL (C24-C38)	83893	7
C12	3.467	-0.001	68591	49107	AK-102 (C10-C25)	6048334	251
C14	3.925	-0.002	140104	127189	AK-103 (C25-C36)	56030	6
C16	4.321	0.000	232770	207768	OR.DIES (C10-C28)	6088325	289
C18	4.675	0.000	208305	168485	OR.MOIL (C28-C40)	57280	5
C20	4.996	-0.001	126032	107297			
C22	5.293	-0.003	50635	46451	STODDARD (C8-C12)	832540	30
C24	5.604	0.001	9772	11489			
C25	5.766	0.003	3129	1191			
C26	5.921	-0.004	1314	959			
C28	6.242	-0.002	220	92			
C32	6.846	-0.010	82	35			
C34	7.139	-0.002	240	125	CREOSOT (C8-C22)	6035967	944
Filter Peak	----						
C36	7.415	0.002	533	105	BUNKERC (C10-C38)	6119266	708
o-terph	4.763	0.001	1673183	1006880	JET-A (C10-C18)	4563495	288
Triacon Surr	6.553	-0.006	23	12	IT.MOIL (C24-C40)	110245	5

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1006880	50.5	112.2
Triacotane	12	0.0	0.0

ms 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b021.d ARI ID: DIESEL 500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:20
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	1605957	59
C8	----				DIESEL (C12-C24)	10474813	490
C10	2.859	0.001	57423	40767	M.OIL (C24-C38)	193569	16
C12	3.467	-0.001	150148	107232	AK-102 (C10-C25)	11772614	488
C14	3.925	-0.002	281705	192683	AK-103 (C25-C36)	138842	16
C16	4.321	0.000	459275	397727	OR.DIES (C10-C28)	11850728	562
C18	4.676	0.001	438078	346941	OR.MOIL (C28-C40)	138643	12
C20	4.998	0.000	247680	229025			
C22	5.294	-0.002	107189	91506	STODDARD (C8-C12)	1605957	58
C24	5.603	-0.001	25044	36788			
C25	5.764	0.000	8933	11255			
C26	5.928	0.002	2767	880			
C28	6.244	0.000	417	209			
C32	6.866	0.010	6270	6679			
C34	7.138	-0.003	199	114	CREOSOT (C8-C22)	11718131	1832
Filter Peak	----						
C36	7.404	-0.009	435	170	BUNKERC (C10-C38)	11939585	1381
o-terph	4.766	0.004	2949322	2085108	JET-A (C10-C18)	8975857	566
Triacon Surr	6.562	0.003	37	8	IT.MOIL (C24-C40)	243363	11

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2085108	104.6	232.4
Triacotane	8	0.0	0.0

ms 8/376

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730rsw.b/0730b021.d

Date : 30-JUL-2010 21:20

Client ID:

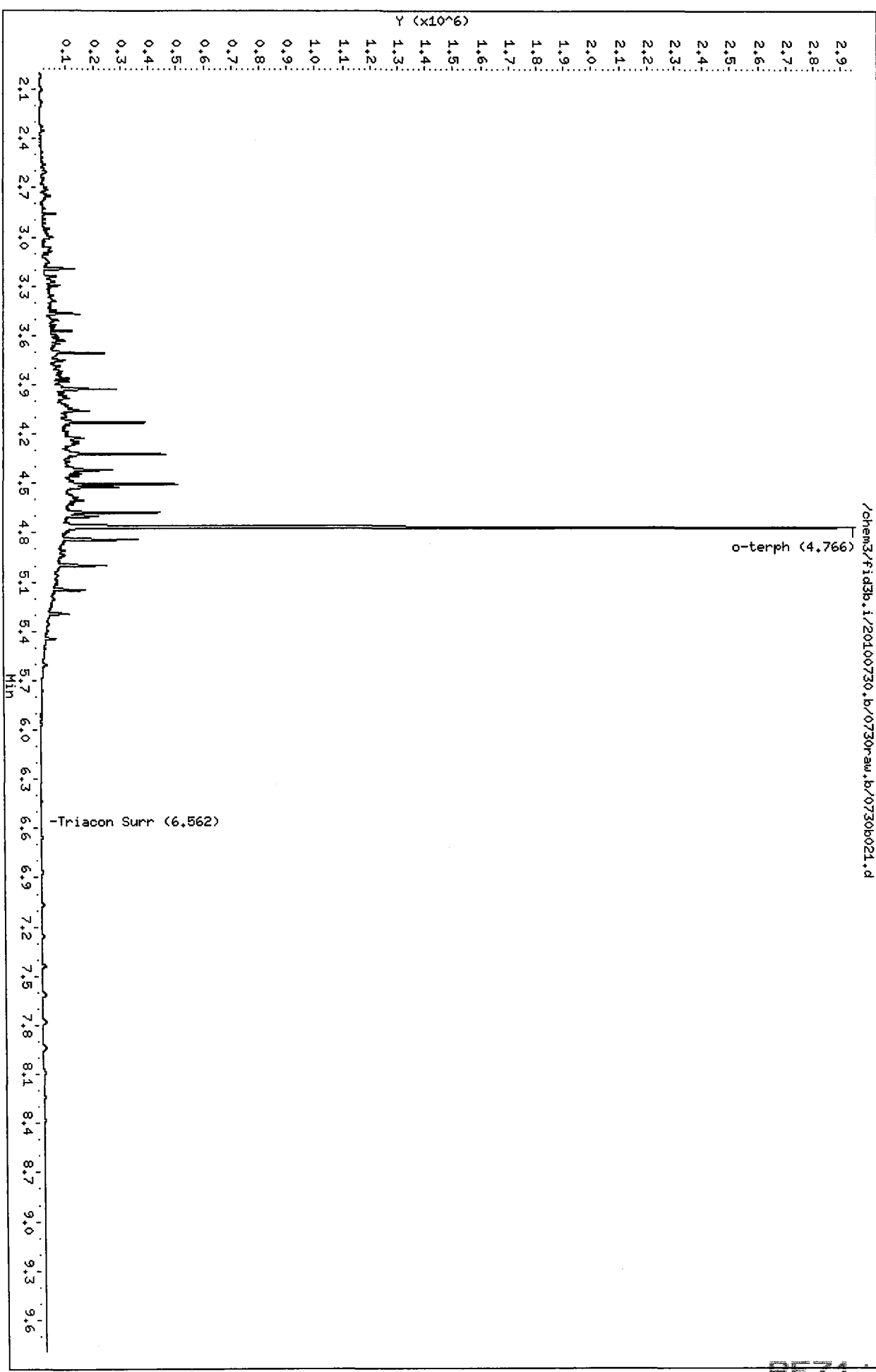
Sample Info: DIESEL 500

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RF71:01117

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b022.d ARI ID: DIESEL 1000
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:39
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3183656	116
C8	----				DIESEL (C12-C24)	20461552	956
C10	2.859	0.001	116245	79992	M.OIL (C24-C38)	246197	20
C12	3.468	0.000	303568	209857	AK-102 (C10-C25)	23076848	957
C14	3.926	-0.001	587854	482277	AK-103 (C25-C36)	175618	20
C16	4.323	0.002	905598	796869	OR.DIES (C10-C28)	23235650	1102
C18	4.678	0.002	807496	638826	OR.MOIL (C28-C40)	50889	5
C20	4.998	0.000	504752	389992			
C22	5.295	-0.001	227321	199991	STODDARD (C8-C12)	3183656	115
C24	5.602	-0.001	59793	78521			
C25	5.763	-0.001	23276	31928			
C26	5.926	0.000	7146	5485			
C28	6.246	0.002	980	756			
C32	6.846	-0.010	31	8			
C34	7.142	0.001	155	78	CREOSOT (C8-C22)	22952325	3589
Filter Peak	----						
C36	7.412	-0.001	462	183	BUNKERC (C10-C38)	23265390	2692
o-terph	4.774	0.012	5344672	4166432	JET-A (C10-C18)	17422692	1099
Triacon Surr	6.558	-0.001	143	74	IT.MOIL (C24-C40)	267420	12

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

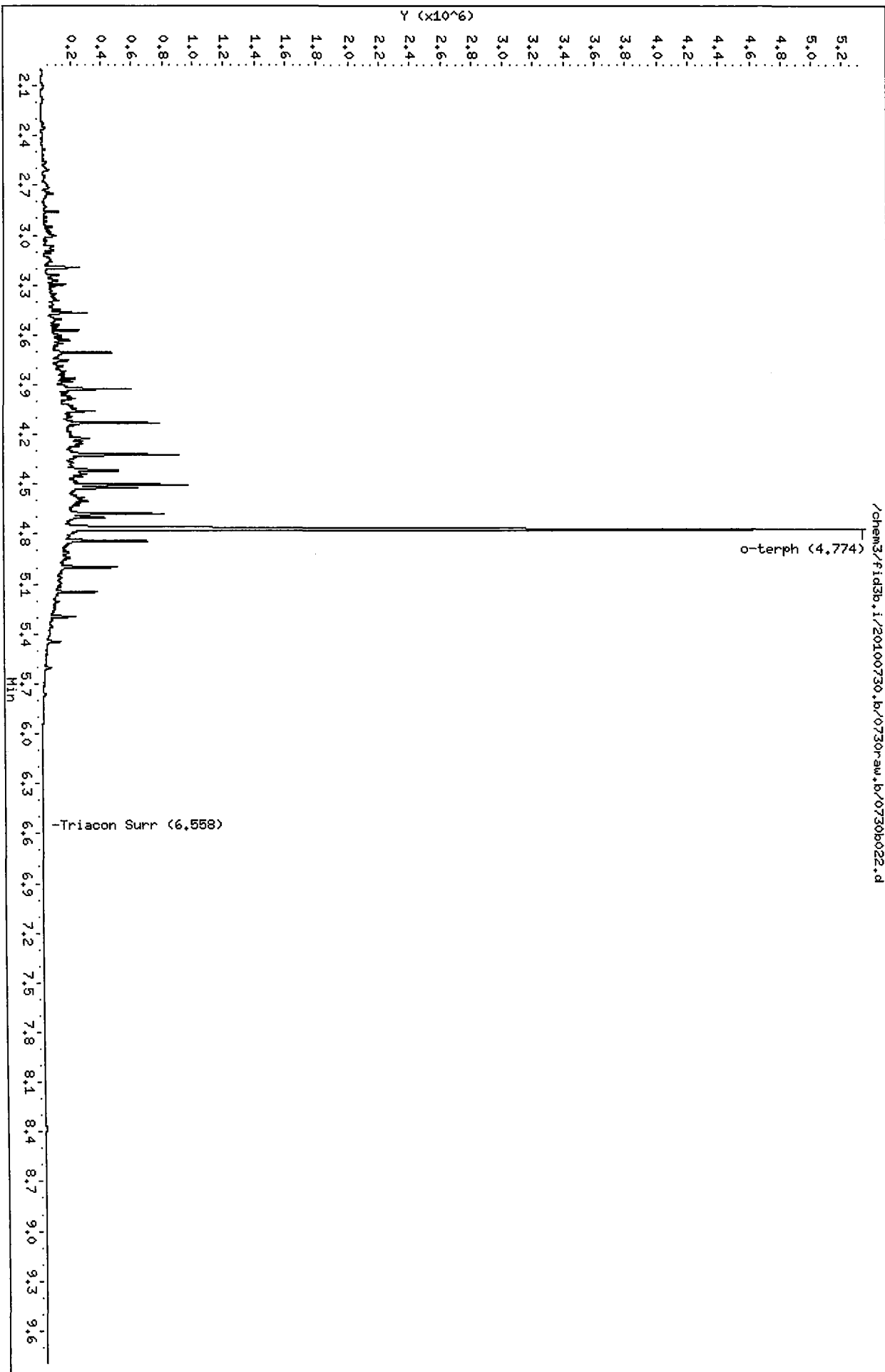
Surrogate	Area	Amount	%Rec
o-Terphenyl	4166432	209.0	464.5
Triacontane	74	0.0	0.0

M 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730rsw.b/0730b022.d
Date: 30-JUL-2010 21:39
Client ID:
Sample Info: DIESEL 1000
Column phase: RTX-1

Instrument: fid3b.i
Operator: MS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b023.d ARI ID: DIESEL 2500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:58
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	7659234	280
C8	----				DIESEL (C12-C24)	50026991	2338
C10	2.863	0.005	285421	198918	M.OIL (C24-C38)	572344	47
C12	3.470	0.002	694665	522755	AK-102 (C10-C25)	56300148	2336
C14	3.929	0.002	1273547	1199224	AK-103 (C25-C36)	425535	48
C16	4.326	0.004	2112542	1828650	OR.DIES (C10-C28)	56698963	2688
C18	4.683	0.007	1755535	1805295	OR.MOIL (C28-C40)	53128	5
C20	5.002	0.005	1242586	994726			
C22	5.298	0.002	554784	489931	STODDARD (C8-C12)	7659234	277
C24	5.604	0.001	157104	182807			
C25	5.764	0.000	68790	96490			
C26	5.924	-0.001	24943	35913			
C28	6.241	-0.003	2845	707			
C32	6.847	-0.009	103	17			
C34	7.140	-0.001	80	25	CREOSOT (C8-C22)	55887097	8738
Filter Peak	----						
C36	7.414	0.001	258	70	BUNKERC (C10-C38)	56733764	6564
o-terph	4.787	0.025	9374342	10447481	JET-A (C10-C18)	42325036	2671
Triacon Surr	6.558	-0.002	576	210	IT.MOIL (C24-C40)	590881	27

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	10447481	524.1	1164.7
Triacotane	210	0.0	0.0

M 8/2/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730rsw.b/0730b023.d

Date: 30-JUL-2010 21:58

Client ID:

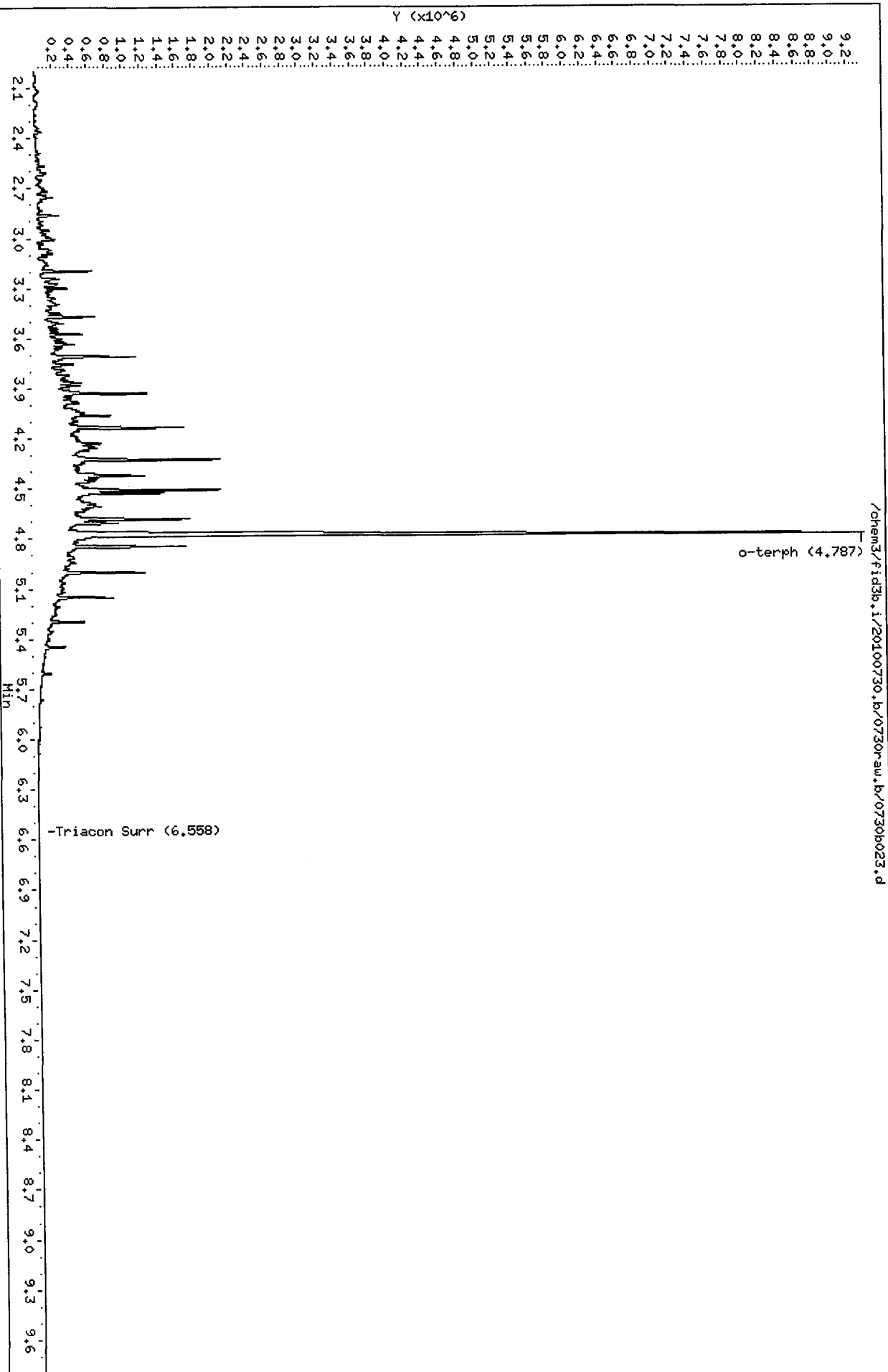
Sample Info: DIESEL 2500

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b024.d ARI ID: DIESEL ICV
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 22:17
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	1033627	38
C8	----				DIESEL (C12-C24)	6390782	299
C10	2.859	0.001	35248	24957	M.OIL (C24-C38)	127459	11
C12	3.467	0.000	86410	59948	AK-102 (C10-C25)	7226358	300
C14	3.926	-0.001	173324	148864	AK-103 (C25-C36)	93021	10
C16	4.320	-0.001	296816	249967	OR.DIES (C10-C28)	7272611	345
C18	4.676	0.000	273795	228555	OR.MOIL (C28-C40)	99093	9
C20	4.997	-0.001	155638	143379			
C22	5.294	-0.002	60394	56049	STODDARD (C8-C12)	1033627	37
C24	5.605	0.002	13282	16336			
C25	5.765	0.001	4054	633			
C26	5.927	0.001	1441	1201			
C28	6.248	0.004	261	48			
C32	6.870	0.014	5168	4822			
C34	7.140	-0.001	246	62	CREOSOT (C8-C22)	7213004	1128
Filter Peak	----						
C36	7.410	-0.003	515	121	BUNKERC (C10-C38)	7336745	849
o-terph	4.764	0.002	2104321	1321409	JET-A (C10-C18)	5495826	347
Triacon Surr	6.562	0.003	18	7	IT.MOIL (C24-C40)	162424	8

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1321409	66.3	147.3
Triacontane	7	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Handwritten signature: M. R. / 3/10

Date : 30-JUL-2010 22:17

Client ID:

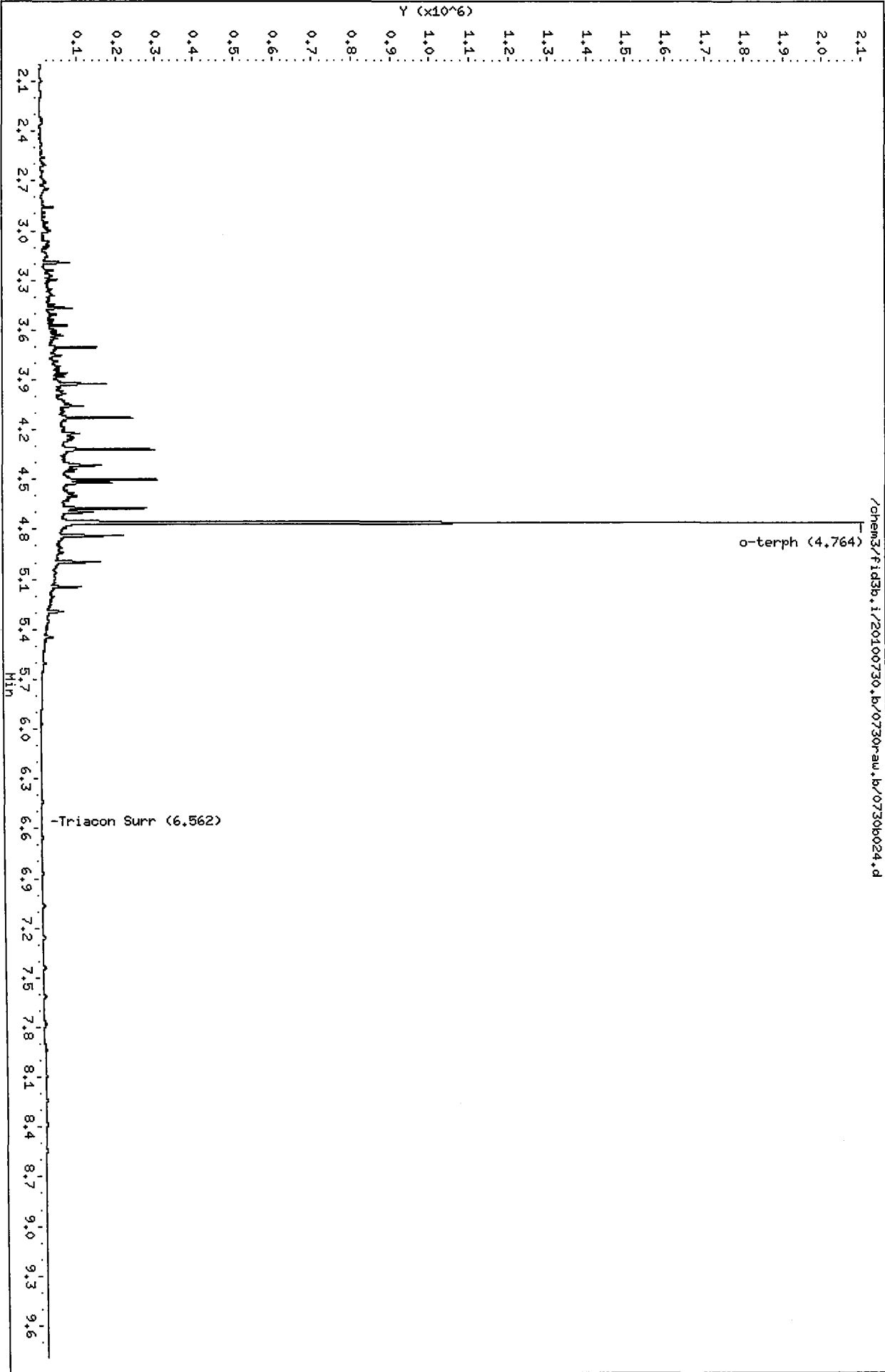
Sample Info: DIESEL ICV

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b025.d ARI ID: MOIL 100
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 22:36
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	59389	2
C8	----				DIESEL (C12-C24)	136639	6
C10	2.861	0.003	1070	391	M.OIL (C24-C38)	1224724	101
C12	3.472	0.004	808	323	AK-102 (C10-C25)	192127	8
C14	3.925	-0.002	408	197	AK-103 (C25-C36)	1036816	116
C16	4.325	0.003	148	52	OR.DIES (C10-C28)	467661	22
C18	4.673	-0.002	50	17	OR.MOIL (C28-C40)	1073312	95
C20	5.000	0.003	534	84			
C22	5.298	0.002	2675	836	STODDARD (C8-C12)	59389	2
C24	5.605	0.002	5233	917			
C25	5.764	0.000	6238	1108			
C26	5.924	-0.002	7918	3299			
C28	6.245	0.001	9206	1987			
C32	6.858	0.002	12172	4066			
C34	7.140	-0.001	12960	3267	CREOSOT (C8-C22)	118096	18
Filter Peak	----						
C36	7.413	-0.001	11888	4717	BUNKERC (C10-C38)	1397827	162
o-terph	4.766	0.004	653	656	JET-A (C10-C18)	58172	4
Triacon Surr	6.558	-0.001	191299	170692	IT.MOIL (C24-C40)	1538562	72

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	656	0.0	0.1
Triacontane	170692	10.2	22.7

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730rsw.b/0730b025.d

Date: 30-JUL-2010 22:36

Client ID:

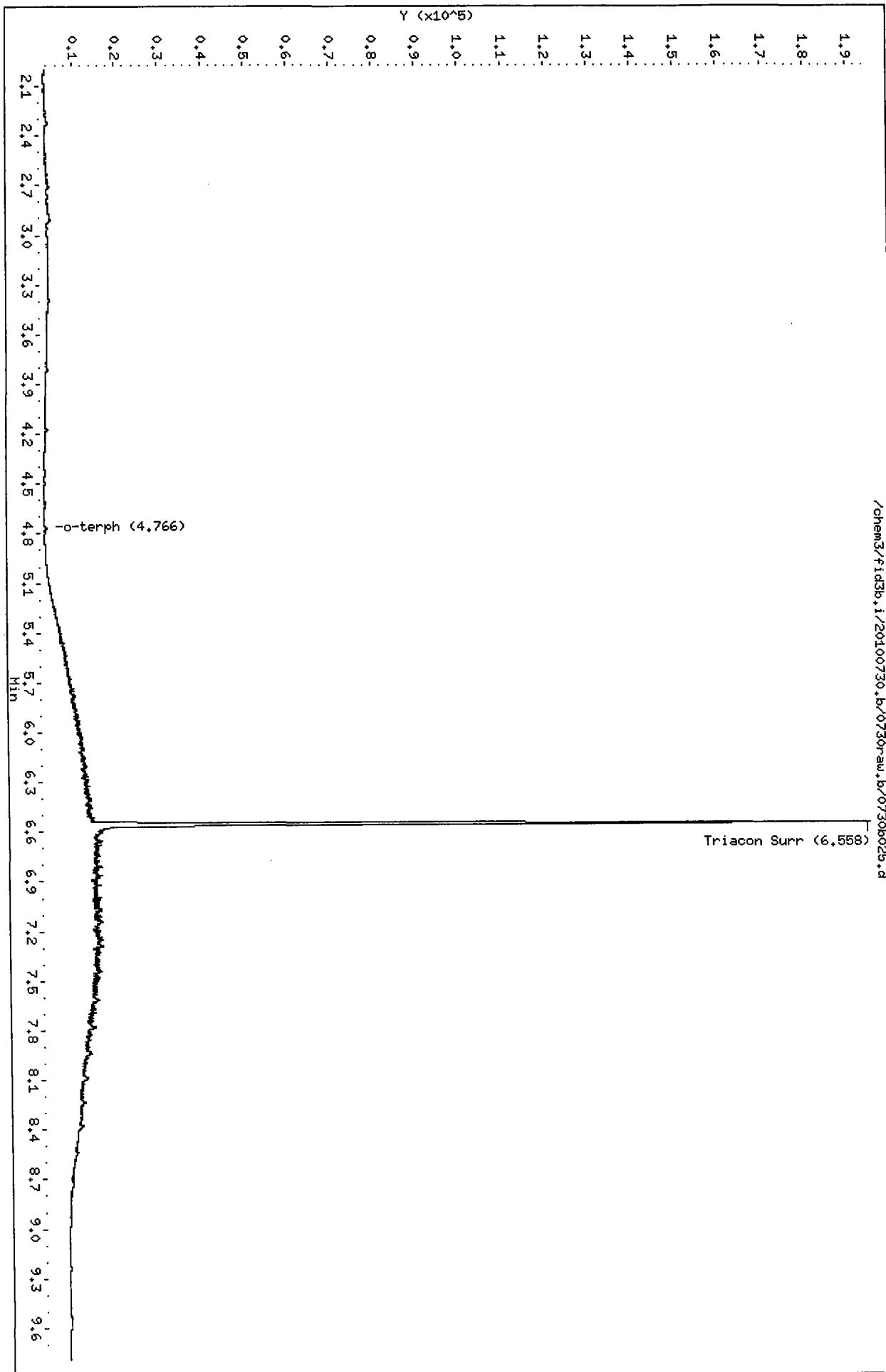
Sample Info: M01L 100

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b026.d ARI ID: MOIL 250
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 22:55
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	54421	2
C8	----				DIESEL (C12-C24)	322420	15
C10	2.860	0.002	1106	911	M.OIL (C24-C38)	2867075	237
C12	3.466	-0.001	692	284	AK-102 (C10-C25)	405267	17
C14	3.923	-0.003	393	183	AK-103 (C25-C36)	2449011	274
C16	4.322	0.001	138	66	OR.DIES (C10-C28)	1063179	50
C18	4.673	-0.002	150	79	OR.MOIL (C28-C40)	2456323	218
C20	4.999	0.002	1661	707			
C22	5.293	-0.003	6646	2620	STODDARD (C8-C12)	54421	2
C24	5.603	0.000	12926	3044			
C25	5.760	-0.003	15791	3992			
C26	5.923	-0.002	18737	5063			
C28	6.240	-0.004	22766	17103			
C32	6.855	0.000	29395	10185			
C34	7.138	-0.003	29817	13225	CREOSOT (C8-C22)	176037	28
Filter Peak	----						
C36	7.411	-0.002	26300	7168	BUNKERC (C10-C38)	3224498	373
o-terph	4.763	0.002	758	732	JET-A (C10-C18)	56598	4
Triacon Surr	6.557	-0.002	469017	430625	IT.MOIL (C24-C40)	3592703	167

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	732	0.0	0.1
Triacotane	430625	25.7	57.2

ms/370

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730r-aw.b/0730b026.d

Date : 30-JUL-2010 22:55

Client ID:

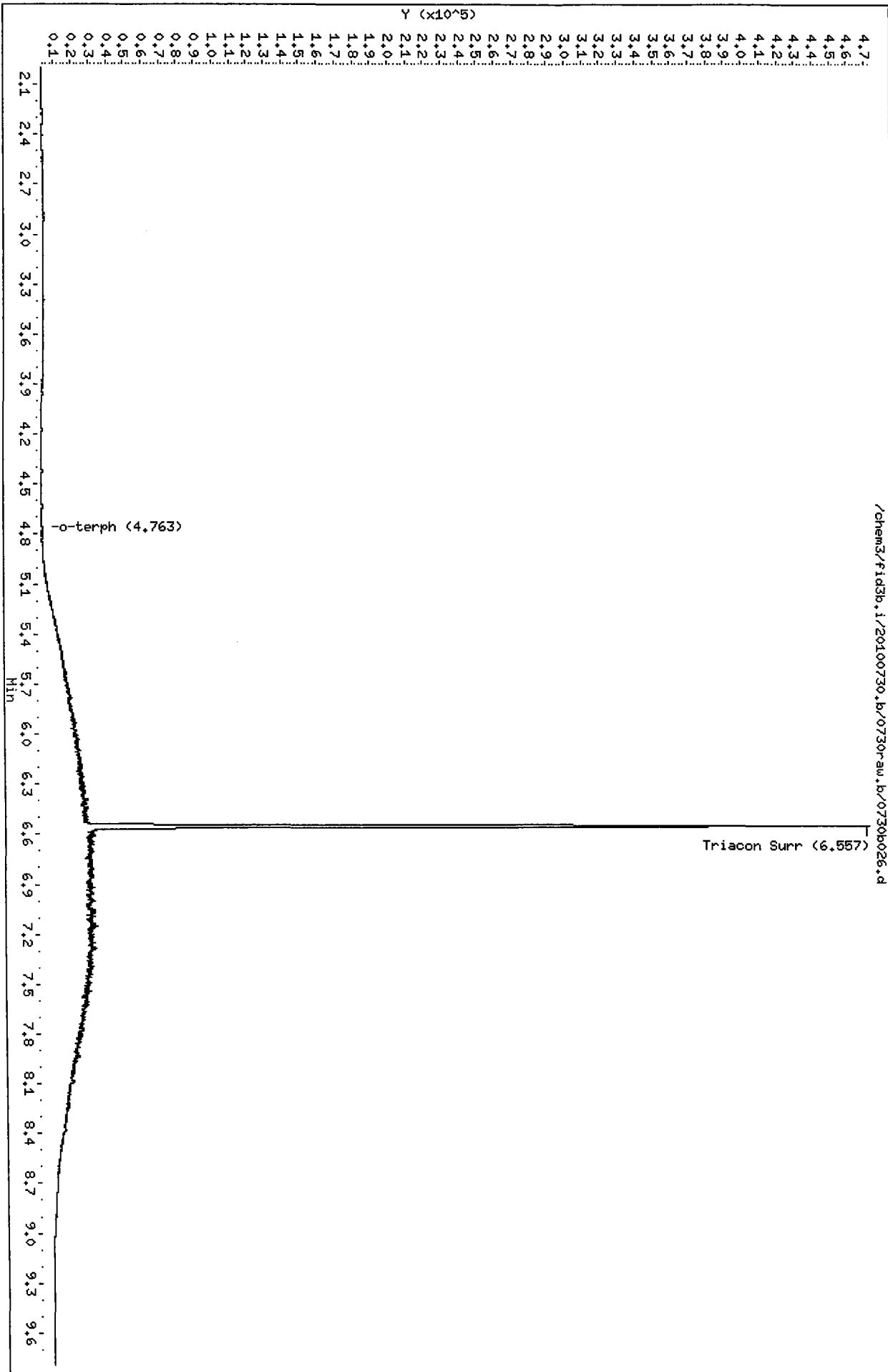
Instrument: fid3b.i

Sample Info: H01L 250

Operator: MS

Column phase: RTX-1

Column diameter: 2.00



RF71-01127

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b027.d ARI ID: MOIL 500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 23:14
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	61429	2
C8	----				DIESEL (C12-C24)	661397	31
C10	2.856	-0.002	1273	310	M.OIL (C24-C38)	5757000	477
C12	3.467	-0.001	772	289	AK-102 (C10-C25)	796757	33
C14	3.922	-0.005	525	176	AK-103 (C25-C36)	4958432	555
C16	4.319	-0.002	278	113	OR.DIES (C10-C28)	2129868	101
C18	4.674	-0.001	552	196	OR.MOIL (C28-C40)	4884926	433
C20	4.998	0.000	3647	716			
C22	5.292	-0.004	14044	4392	STODDARD (C8-C12)	61429	2
C24	5.604	0.000	27326	15789			
C25	5.766	0.002	33190	10855			
C26	5.924	-0.002	38046	12688			
C28	6.245	0.000	48533	19176			
C32	6.858	0.002	63236	21003			
C34	7.139	-0.002	59785	13961	CREOSOT (C8-C22)	311324	49
Filter Peak	----						
C36	7.414	0.000	57110	39334	BUNKERC (C10-C38)	6457090	747
o-terph	4.762	0.000	1198	1526	JET-A (C10-C18)	73818	5
Triacon Surr	6.561	0.001	910045	900916	IT.MOIL (C24-C40)	7215620	336

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1526	0.1	0.2
Triacontane	900916	53.9	119.7

08/31/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730_b/0730r-aw_b/0730b027.d

Date : 30-JUL-2010 23:14

Instrument: fid3b.i

Client ID:

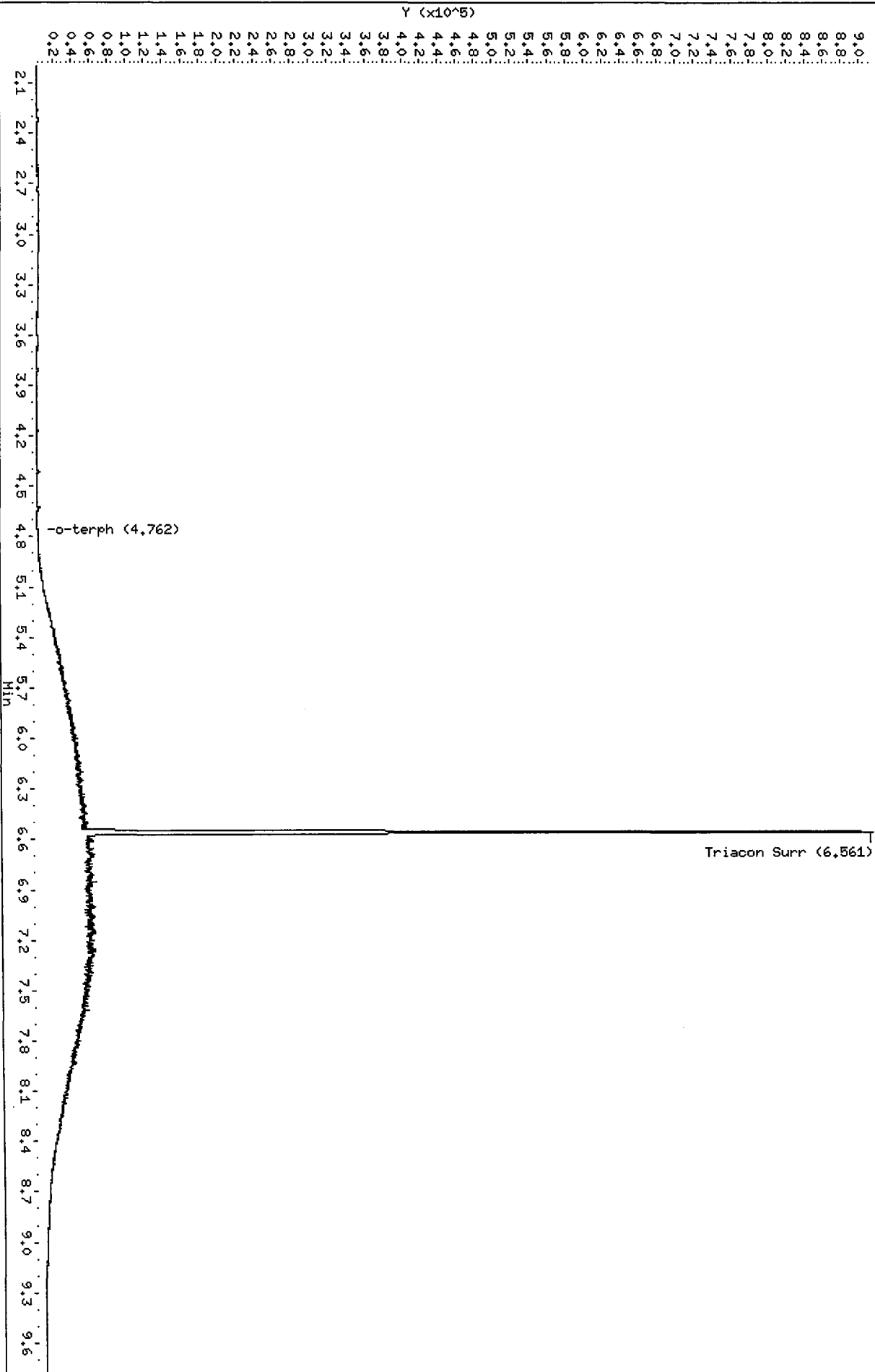
Operator: HS

Sample Info: MOIL 500

Column diameter: 2.00

Column phase: RTX-1

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b028.d ARI ID: MOIL 1000
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 23:32
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	72637	3
C8	----				DIESEL (C12-C24)	1386989	65
C10	2.858	0.001	1897	1836	M.OIL (C24-C38)	11563694	957
C12	3.470	0.002	1037	577	AK-102 (C10-C25)	1637290	68
C14	3.925	-0.001	834	432	AK-103 (C25-C36)	9855599	1103
C16	4.322	0.001	584	148	OR.DIES (C10-C28)	4288810	203
C18	4.677	0.002	1434	588	OR.MOIL (C28-C40)	9856552	874
C20	5.000	0.003	8627	6697			
C22	5.298	0.003	30407	15588	STODDARD (C8-C12)	72637	3
C24	5.601	-0.002	56341	40257			
C25	5.767	0.003	70210	55090			
C26	5.924	-0.001	76118	32730			
C28	6.246	0.002	93898	37136			
C32	6.854	-0.002	121094	45621			
C34	7.141	0.000	119577	41572	CREOSOT (C8-C22)	609564	95
Filter Peak	----						
C36	7.409	-0.004	114138	61669	BUNKERC (C10-C38)	12998040	1504
o-terph	4.758	-0.003	2740	1977	JET-A (C10-C18)	111596	7
Triacon Surr	6.568	0.009	1763841	1894900	IT.MOIL (C24-C40)	14605916	680

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1977	0.1	0.2
Triacontane	1894900	113.3	251.8

ms/37

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chems3/fid3b.i/20100730.b/0730raw.b/0730b028.d

Date : 30-JUL-2010 23:32

Client ID:

Sample Info: H01L 1000

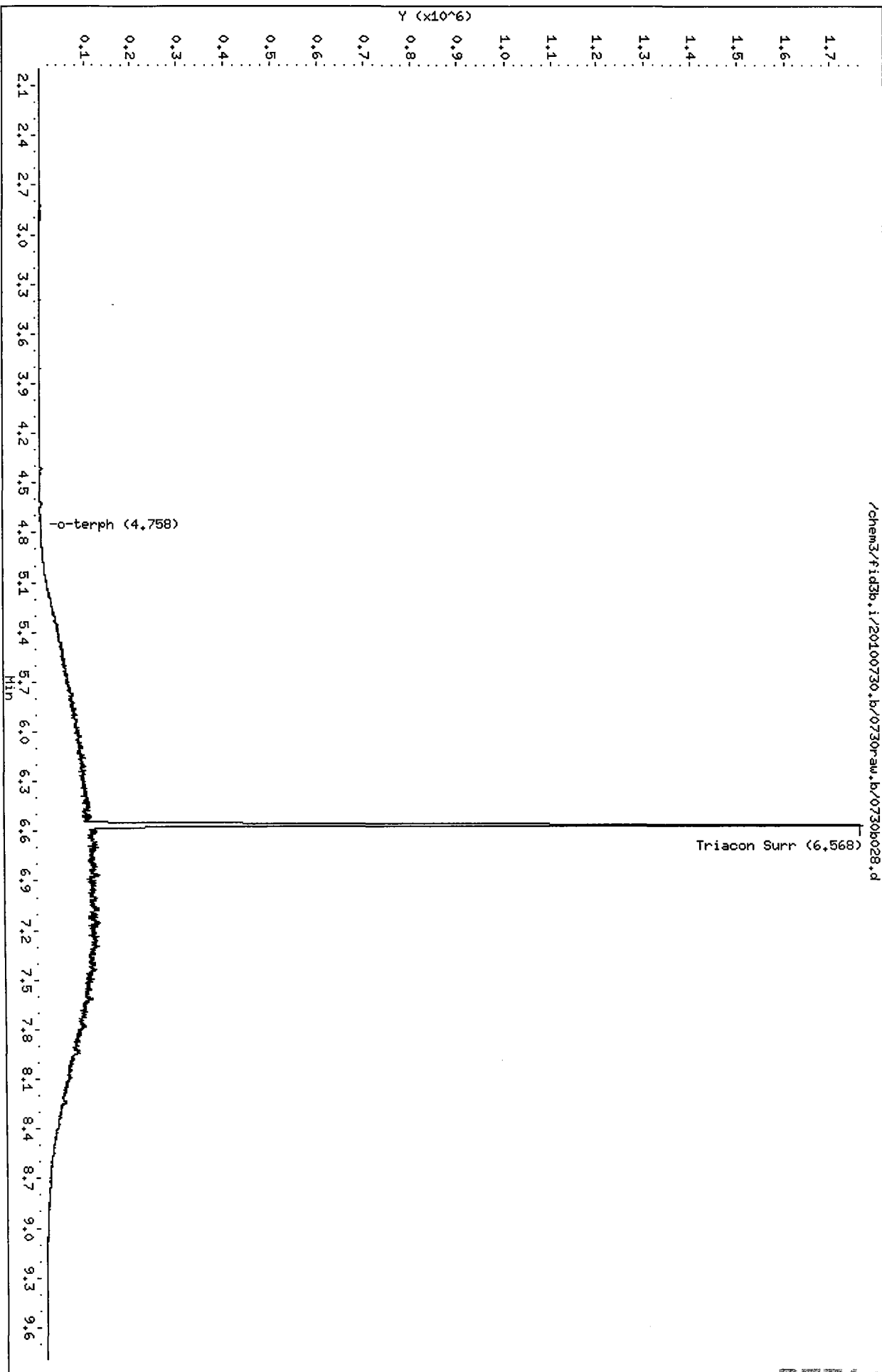
Column phase: RTX-1

Instrument: fid3b.i

Operator: NS

Column diameter: 2.00

/chems3/fid3b.i/20100730.b/0730raw.b/0730b028.d



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b030.d ARI ID: MOIL 2500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 31-JUL-2010 00:10
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	95636	3
C8	----				DIESEL (C12-C24)	3379394	158
C10	2.857	-0.001	3357	3375	M.OIL (C24-C38)	32896882	2723
C12	3.471	0.003	1596	1868	AK-102 (C10-C25)	3927075	163
C14	3.927	0.001	1514	356	AK-103 (C25-C36)	28841572	3229
C16	4.322	0.001	1563	1411	OR.DIES (C10-C28)	10612044	503
C18	4.676	0.001	3568	4270	OR.MOIL (C28-C40)	28397062	2519
C20	4.996	-0.001	22446	7349			
C22	5.295	-0.001	73882	30652	STODDARD (C8-C12)	95636	3
C24	5.605	0.002	133400	26133			
C25	5.762	-0.001	165074	51876			
C26	5.928	0.002	188516	86981			
C28	6.238	-0.006	233688	182539			
C32	6.857	0.001	290957	171974			
C34	7.138	-0.003	286943	126318	CREOSOT (C8-C22)	1390131	217
Filter Peak	----						
C36	7.411	-0.002	275697	173060	BUNKERC (C10-C38)	36341914	4205
o-terph	4.758	-0.004	6196	3899	JET-A (C10-C18)	200291	13
Triacon Surr	6.545	-0.014	262776	85419	IT.MOIL (C24-C40)	35649493	1659

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3899	0.2	0.4
Triacontane	85419	5.1	11.3

08/31/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 31-JUL-2010 00:10

Client ID:

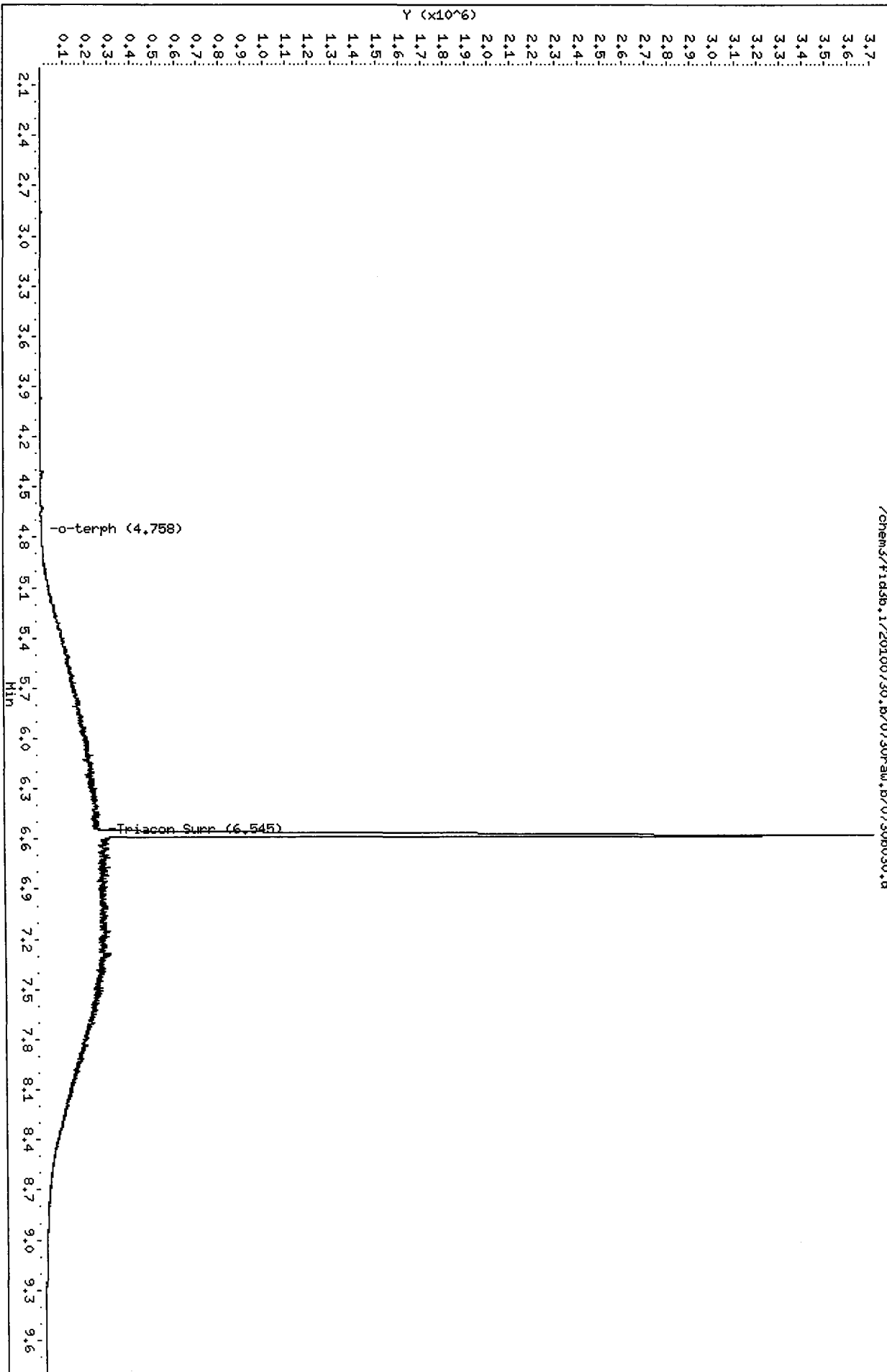
Sample Info: MOIL 2500

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



001102110211

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b032.d ARI ID: MOIL 5000
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 31-JUL-2010 00:47
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

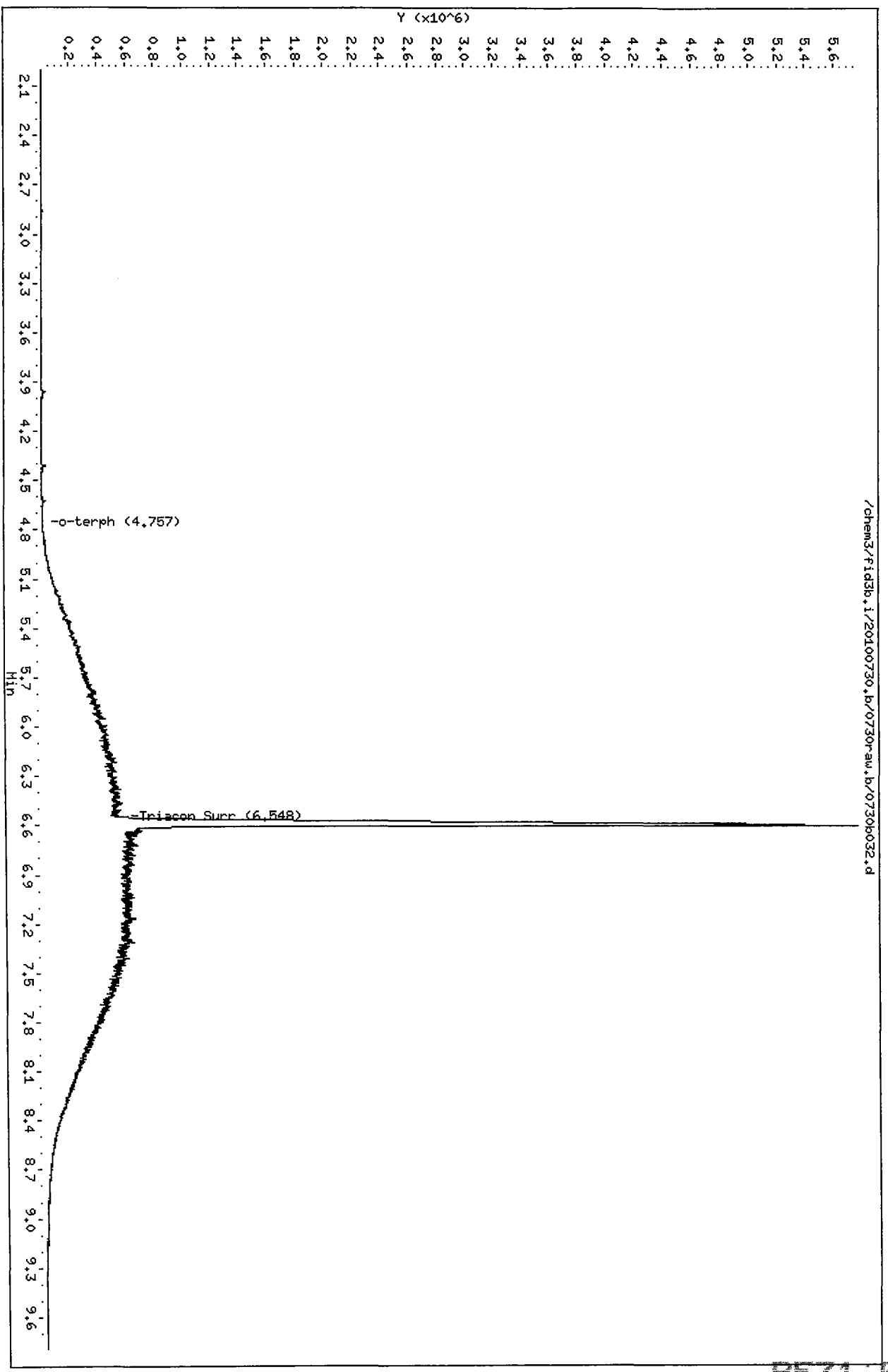
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	136516	5
C8	----				DIESEL (C12-C24)	7391085	345
C10	2.860	0.002	6390	7826	M.OIL (C24-C38)	71834393	5946
C12	3.468	0.000	3090	3308	AK-102 (C10-C25)	8576883	356
C14	3.927	0.000	2902	3119	AK-103 (C25-C36)	63299858	7086
C16	4.322	0.001	3356	5579	OR.DIES (C10-C28)	23215807	1101
C18	4.674	-0.001	7922	8796	OR.MOIL (C28-C40)	61601385	5464
C20	4.996	-0.002	47935	10434			
C22	5.294	-0.002	159044	57913	STODDARD (C8-C12)	136516	5
C24	5.606	0.002	294534	135002			
C25	5.760	-0.004	341829	114396			
C26	5.924	-0.002	403139	246862			
C28	6.245	0.000	500056	192227			
C32	6.855	0.000	584755	116103			
C34	7.144	0.003	614284	191733	CREOSOT (C8-C22)	2916422	456
Filter Peak	----						
C36	7.412	-0.002	608306	208570	BUNKERC (C10-C38)	79322386	9177
o-terph	4.757	-0.005	12189	7421	JET-A (C10-C18)	369371	23
Triacon Surr	6.548	-0.012	568152	143228	IT.MOIL (C24-C40)	77472427	3605

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	7421	0.4	0.8
Triacontane	143228	8.6	19.0

M 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b034.d ARI ID: MOIL ICV
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 31-JUL-2010 01:25
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	69710	3
C8	----				DIESEL (C12-C24)	654549	31
C10	2.860	0.002	1401	800	M.OIL (C24-C38)	5643801	467
C12	3.466	-0.002	844	283	AK-102 (C10-C25)	785151	33
C14	3.928	0.001	611	154	AK-103 (C25-C36)	4842447	542
C16	4.325	0.004	330	255	OR.DIES (C10-C28)	2137357	101
C18	4.676	0.001	610	174	OR.MOIL (C28-C40)	4762622	422
C20	4.999	0.002	3728	881			
C22	5.295	-0.001	14759	8671	STODDARD (C8-C12)	69710	3
C24	5.604	0.001	26635	20138			
C25	5.767	0.003	34354	20126			
C26	5.925	-0.001	38360	10923			
C28	6.242	-0.003	45237	26594			
C32	6.858	0.003	58973	16709			
C34	7.142	0.000	60409	28174	CREOSOT (C8-C22)	326198	51
Filter Peak	----						
C36	7.410	-0.003	54496	40370	BUNKERC (C10-C38)	6342170	734
o-terph	4.761	-0.001	1177	942	JET-A (C10-C18)	83224	5
Triacon Surr	6.560	0.000	917980	752053	IT.MOIL (C24-C40)	6953664	324

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	942	0.0	0.1
Triacontane	752053	45.0	99.9

M 8/2/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730r-aw.b/0730b034.d

Date: 31-JUL-2010 01:25

Client ID:

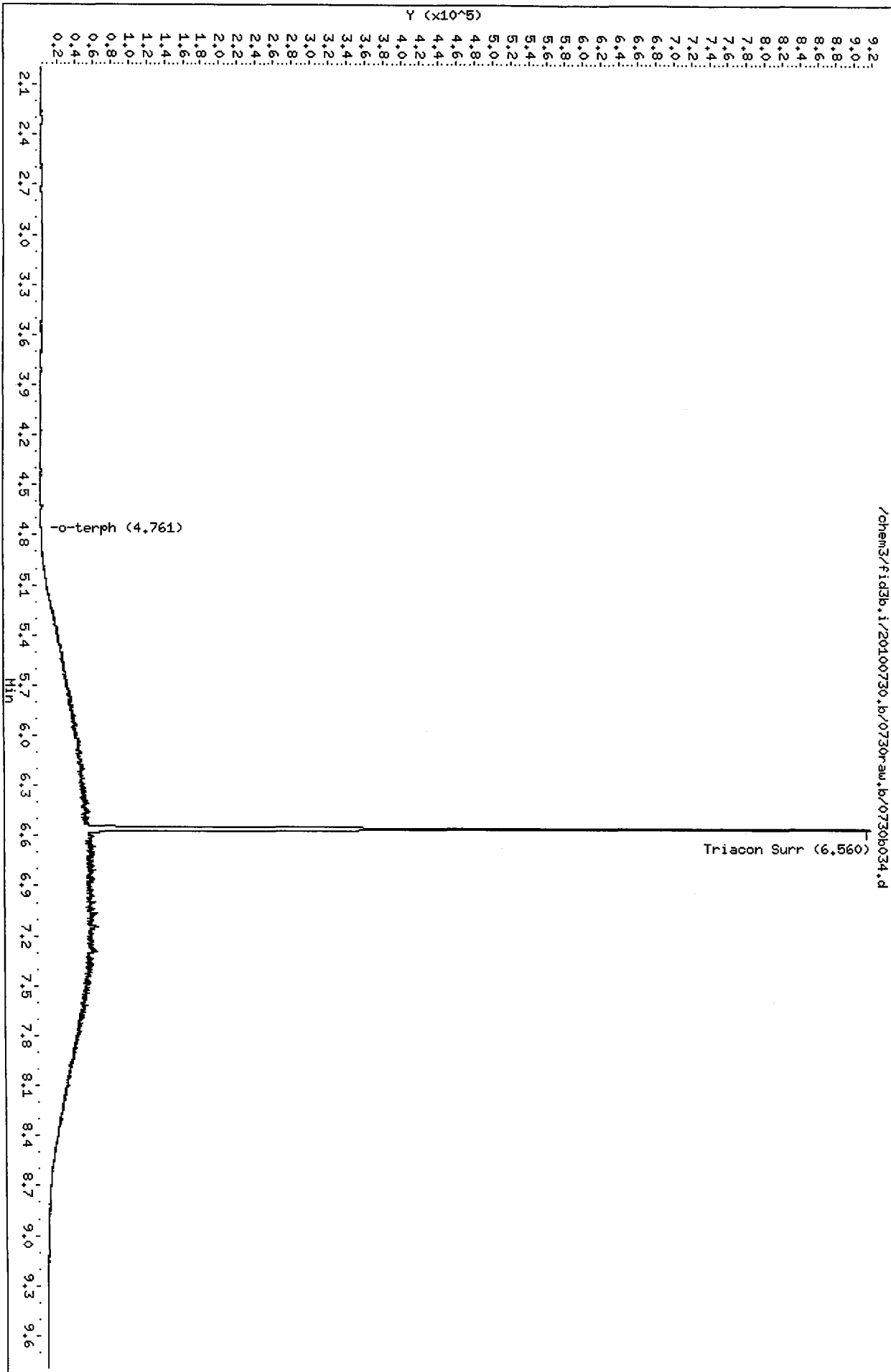
Instrument: fid3b.i

Sample Info: M01L ICV

Operator: MS

Column phase: RTX-1

Column diameter: 2.00



**TPHD Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: RF71



GC Analyst Notes / Corrective Action Log

ARI Project ID: RF71 Client ID: Anchor

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): Dred. mo. 1. 0. 1. 0. 1. 0. 1. 0.

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: 7/30/10 Analysis Start: 8/3/10

Endrin/DDT Breakdown <15%?	YES / NO <u>NA</u>	Method Blank In Control?	<u>YES</u> / NO
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	<u>YES</u> / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery In Control?	<u>YES</u> / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO / <u>NA</u>	Special Analysis Criteria Met?	YES / NO / <u>NA</u>

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

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 8/4/10

Reviewer: [Signature] Date: 8/4/10

Analytical Resources Inc.: Organics Instrument Log

FID-3B Serial No.: US00003232

Date: 7/30/10 Analysis: NWTRHD Analyst: mm

GC Program: TPHHT Column No: 162178 Column Type: 2PHHT

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 7/30/10

IS/SS	Ical/Ccal	LCS/ICV
_____	<u>1700-1</u>	_____
_____	<u>1680-3</u>	_____
_____	<u>1730-3</u>	_____
_____	<u>1737-3</u>	_____

Time	Filename	LabID	ClientId	DF	Time	Filename	LabID	ClientId	DF
1	1336	0730b001.d	RINSE	1	23	2158	0730b023.d	DIESEL 2500	1
2	1355	0730b002.d	RINSE	1	24	2217	0730b024.d	DIESEL ICV	1
3	1414	0730b003.d	RINSE	1	25	2236	0730b025.d	MOIL 100	1
4	1433	0730b004.d	RINSE	1	26	2255	0730b026.d	MOIL 250	1
5	1453	0730b005.d	RINSE	1	27	2314	0730b027.d	MOIL 500	1
6	1512	0730b006.d	RINSE	1	28	2332	0730b028.d	MOIL 1000	1
7	1532	0730b007.d	RINSE	1	29	2351	0730b029.d	RINSE	1
8	1551	0730b008.d	RINSE	1	30	0010	0730b030.d	MOIL 2500	1
9	1611	0730b009.d	RINSE	1	31	0028	0730b031.d	RINSE	1
10	1631	0730b010.d	RINSE	1	32	0047	0730b032.d	MOIL 5000	1
11	1650	0730b011.d	RINSE	1	33	0106	0730b033.d	RINSE	1
12	1828	0730b012.d	RINSE	1	34	0125	0730b034.d	MOIL ICV	1
13	1846	0730b013.d	RINSE	1	35	0144	0730b035.d	RINSE	1
14	1906	0730b014.d	RINSE	1	36	0203	0730b036.d	RINSE	1
15	1925	0730b015.d	RINSE	1	37	0222	0730b037.d	DIESEL 250	1
16	1944	0730b016.d	RT	1	38	0240	0730b038.d	MOIL 500	1
17	2004	0730b017.d	IB	1					
18	2023	0730b018.d	DIESEL 50	1					
19	2042	0730b019.d	DIESEL 100	1					
20	2101	0730b020.d	DIESEL 250	1					
21	2120	0730b021.d	DIESEL 500	1					
22	2139	0730b022.d	DIESEL 1000	1					

mm
8/3/10

Maintenance / Comments The back injector is connected to the back detector. Clipped precolumn, detector column and changed presstight.

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.

Analytical Resources Inc.: Organics Instrument Log

FID-3B Serial No.: US00003232

Date: 8/3/10

Analysis: 10WTPH10

Analyst: M

GC Program: TPH11

Column No: 16217B

Column Type: RTD-1201H

Instrument Tune (.U or .CT.): _____

EM Voltage: _____

Calibration File: _____

Curve Date: 7/30/10

IS/SS	Ical/Ccal	LCS/ICV
/	1700-1	/
/	1680-3	/
/	1730-3	/
/	1777-3	/

Time	Filename	LabID	ClientID	DF
1	1237	0803b001.d	RINSE	1
2	1256	0803b002.d	RINSE	1
3	1315	0803b003.d	RT	1
4	1334	0803b004.d	IB	1
5	1354	0803b005.d	DIESEL#1	1
6	1413	0803b006.d	MOIL#1	1
7	1920	0803b007.d	RINSE	1
8	1939	0803b008.d	RF71MS1 RF71MS1	1
9	1958	0803b009.d	RF71LCS1 RF71LCS1	1
10	2036	0803b011.d	RF71A BW-07-SC-COM	1
11	2056	0803b012.d	RG13A LLASB02-5	1
12	2115	0803b013.d	RG13B LLASB02-2	5
13	2134	0803b014.d	RG13C LLASB02-8	1
14	2153	0803b015.d	RG13D LLASB07-2	1
15	2212	0803b016.d	RG13E LLASB07-5	1
16	2231	0803b017.d	RG13EMS LLASB07-5 MS	1
17	2251	0803b018.d	RG13EMSD LLASB07-5 MS	1
18	2310	0803b019.d	RG13F LLASB07-8	1
19	2329	0803b020.d	RG13G LLASB12-2	1
20	2348	0803b021.d	RG13H LLASB12-5	1
21	0006	0803b022.d	RG13I LLASB12-7.5	1
22	0025	0803b023.d	DIESEL#2	1

Time	Filename	LabID	ClientID	DF
23	0044	0803b024.d	MOIL#2	1

[Large handwritten scribbles and signature]

8/4/10

Maintenance / Comments *None*

Time	Filename	LabID	ClientID	DF
1	2017	0803b010.d	RF71LCS1 RF71LCS1	1

*← forgot to include file #20.
M 8/4/10*

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.

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b003.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: RT
Client ID:
Injection: 03-AUG-2010 13:15
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.031	0.000	495328	353710	GAS (Tol-C12)	1167050	43
C8	1.326	0.000	203692	240227	DIESEL (C12-C24)	1648464	77
C10	2.858	0.000	463916	256964	M.OIL (C24-C38)	2007617	166
C12	3.467	0.000	445629	239847	AK-102 (C10-C25)	2196671	91
C14	3.926	0.000	440065	241739	AK-103 (C25-C36)	1763833	197
C16	4.320	0.000	425197	247892	OR.DIES (C10-C28)	3104045	147
C18	4.675	0.000	436027	254721	OR.MOIL (C28-C40)	1269233	113
C20	4.998	0.000	421487	244334			
C22	5.295	0.000	348098	244060	STODDARD (C8-C12)	813340	29
C24	5.603	0.000	355001	252199			
C25	5.764	0.000	460261	356054			
C26	5.923	0.000	322668	262860			
C28	6.243	0.000	300120	265272			
C32	6.855	0.000	278955	273481			
C34	7.142	0.000	293910	266551	CREOSOT (C8-C22)	2183797	341
Filter Peak	----						
C36	7.414	0.000	282119	261118	BUNKERC (C10-C38)	4197868	486
o-terph	4.763	0.000	1609131	926271	JET-A (C10-C18)	1369558	86
Triacon Surr	6.561	0.000	1043903	936905	IT.MOIL (C24-C40)	3119932	145

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	926271	46.5	103.3
Triacontane	936905	56.0	124.5

M 8/4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

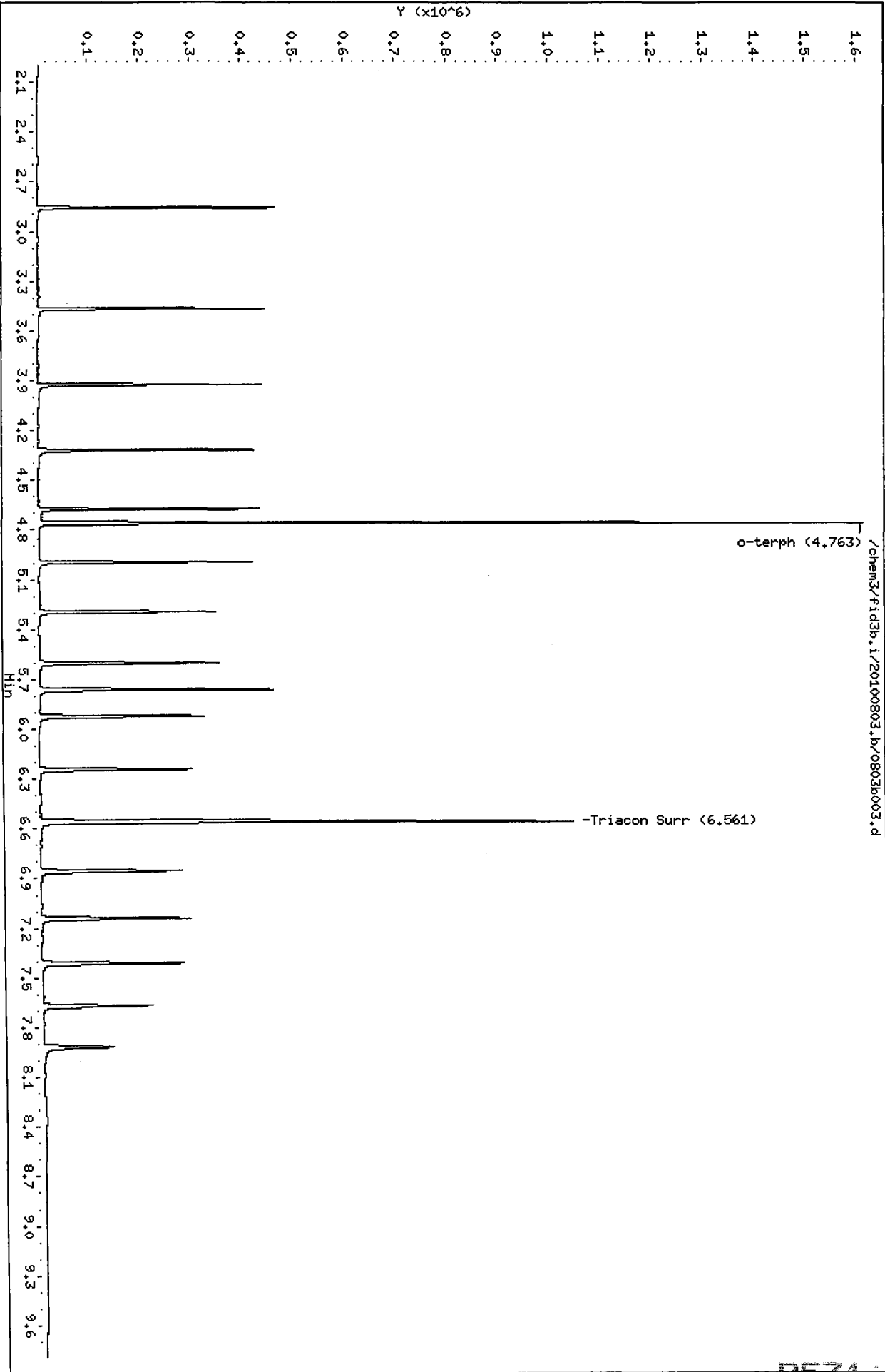
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Date : 03-AUG-2010 13:15

Client ID:
Sample Info: RT

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b004.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: IB
Client ID:
Injection: 03-AUG-2010 13:34
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	58775	2
C8	----				DIESEL (C12-C24)	53202	2
C10	2.862	0.004	1157	1328	M.OIL (C24-C38)	108719	9
C12	3.468	0.001	869	561	AK-102 (C10-C25)	91189	4
C14	3.930	0.004	533	274	AK-103 (C25-C36)	89851	10
C16	4.320	0.000	273	47	OR.DIES (C10-C28)	93975	4
C18	4.680	0.005	268	94	OR.MOIL (C28-C40)	133859	12
C20	5.001	0.003	487	252			
C22	5.298	0.003	160	89	STODDARD (C8-C12)	58775	2
C24	5.604	0.001	58	15			
C25	5.757	-0.007	27	9			
C26	5.921	-0.002	54	12			
C28	6.245	0.002	453	508			
C32	6.845	-0.010	1182	776			
C34	7.142	-0.001	848	250	CREOSOT (C8-C22)	111010	17
Filter Peak	----						
C36	7.406	-0.008	956	319	BUNKERC (C10-C38)	199839	23
o-terph	4.762	0.000	1662479	952699	JET-A (C10-C18)	68497	4
Triacon Surr	6.558	-0.003	814033	759670	IT.MOIL (C24-C40)	896385	42

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	952699	47.8	106.2
Triacontane	759670	45.4	100.9

MS 8/4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100803.b/0803b004.d

Date : 03-AUG-2010 13:34

Client ID:

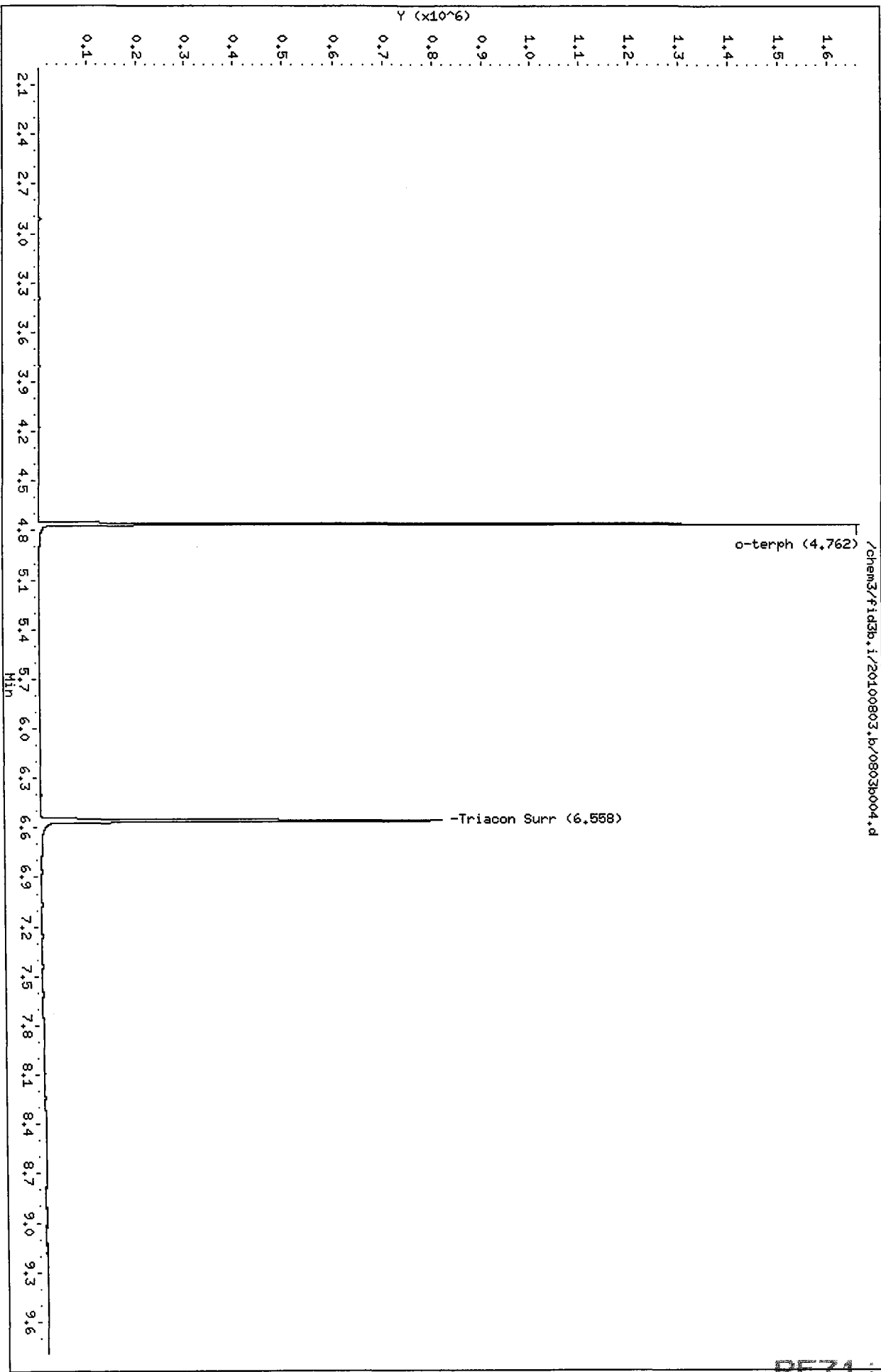
Sample Info: IB

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b005.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: DIESEL#1
Client ID:
Injection: 03-AUG-2010 13:54
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	814127	30
C8	----				DIESEL (C12-C24)	5350102	250
C10	2.857	-0.001	27675	19836	M.OIL (C24-C38)	86188	7
C12	3.466	-0.001	69171	49924	AK-102 (C10-C25)	6009160	249
C14	3.924	-0.002	134177	112429	AK-103 (C25-C36)	59960	7
C16	4.319	0.000	232014	197947	OR.DIES (C10-C28)	6048966	287
C18	4.674	-0.001	207730	180092	OR.MOIL (C28-C40)	59546	5
C20	4.996	-0.002	120482	97458			
C22	5.293	-0.002	47722	49055	STODDARD (C8-C12)	814127	29
C24	5.602	-0.001	8645	4799			
C25	5.765	0.001	2828	389			
C26	5.925	0.003	1200	237			
C28	6.246	0.003	232	79			
C32	6.866	0.011	805	1208			
C34	7.144	0.001	288	55	CREOSOT (C8-C22)	5992112	937
Filter Peak	----						
C36	7.412	-0.002	653	255	BUNKERC (C10-C38)	6081923	704
o-terph	4.762	-0.001	1586316	875303	JET-A (C10-C18)	4461095	281
Triacon Surr	6.561	0.000	59	17	IT.MOIL (C24-C40)	112794	5

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	875303	43.9	97.6
Triacontane	17	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/4/10

Data File: /chem3/fid3b.i/20100803.b/0803b005.d

Date: 03-AUG-2010 13:54

Client ID:

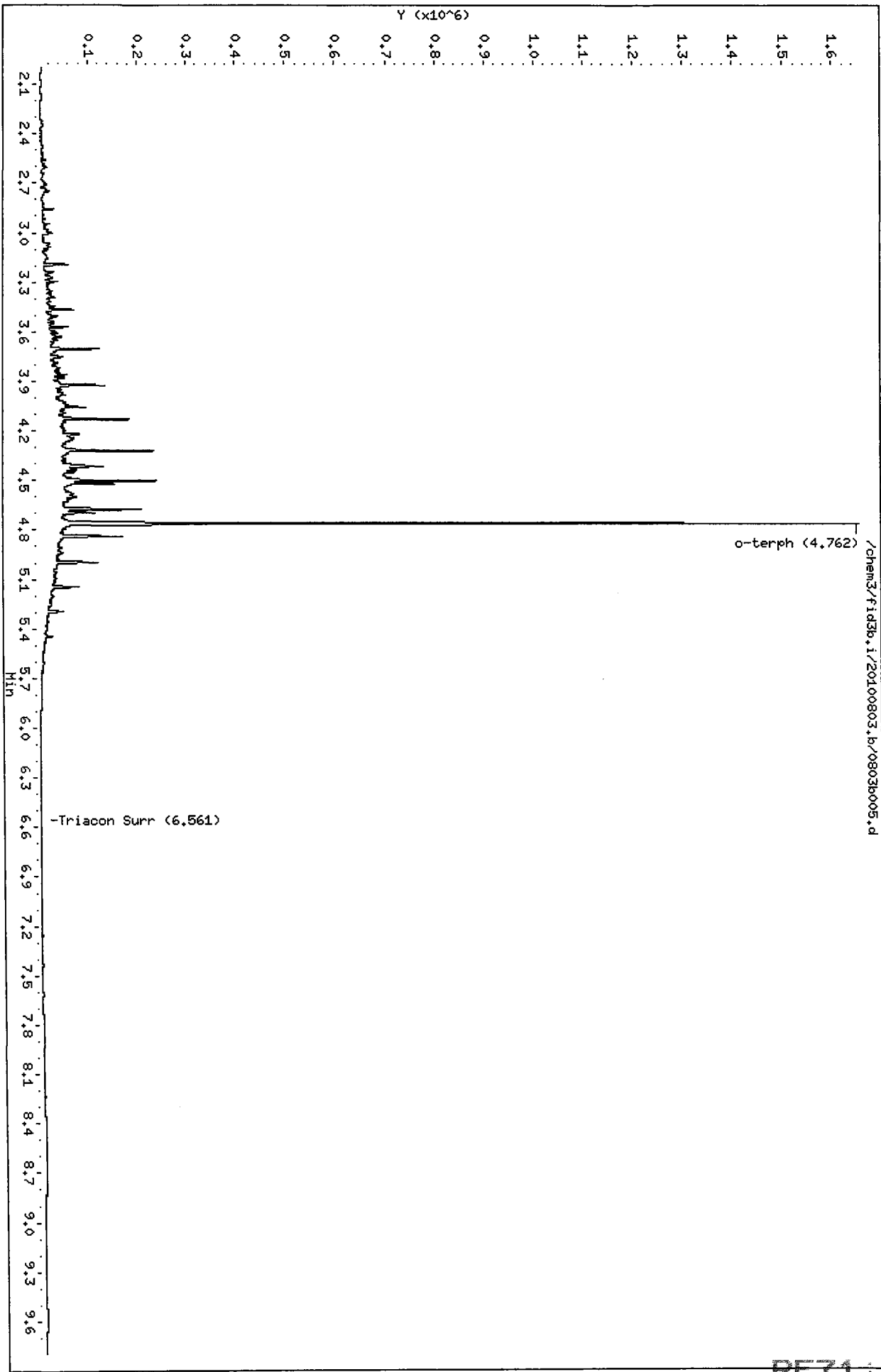
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RF71:01147

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b006.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: MOIL#1
Client ID:
Injection: 03-AUG-2010 14:13
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	41558	2
C8	----				DIESEL (C12-C24)	677590	32
C10	2.860	0.002	1057	852	M.OIL (C24-C38)	5917772	490
C12	3.465	-0.002	614	277	AK-102 (C10-C25)	799410	33
C14	3.925	-0.001	421	98	AK-103 (C25-C36)	5129029	574
C16	4.316	-0.004	287	133	OR.DIES (C10-C28)	2169811	103
C18	4.673	-0.001	650	150	OR.MOIL (C28-C40)	4999790	443
C20	4.998	0.000	3929	696			
C22	5.291	-0.004	14294	3640	STODDARD (C8-C12)	41558	2
C24	5.604	0.001	27369	7508			
C25	5.763	-0.001	33480	10477			
C26	5.924	0.001	38269	6765			
C28	6.240	-0.003	48266	19601			
C32	6.851	-0.004	57543	33499			
C34	7.140	-0.002	59853	14168	CREOSOT (C8-C22)	296571	46
Filter Peak	----						
C36	7.411	-0.003	55852	13996	BUNKERC (C10-C38)	6623500	766
o-terph	4.761	-0.002	2748	3688	JET-A (C10-C18)	62464	4
Triacon Surr	6.561	0.000	818112	746693	IT.MOIL (C24-C40)	7210567	336

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3688	0.2	0.4
Triacontane	746693	44.6	99.2

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst *JM* Date *8/9/10*

Data File: /chem3/fid3b.i/20100803.b/0803b006.d

Date: 03-AUG-2010 14:13

Client ID:

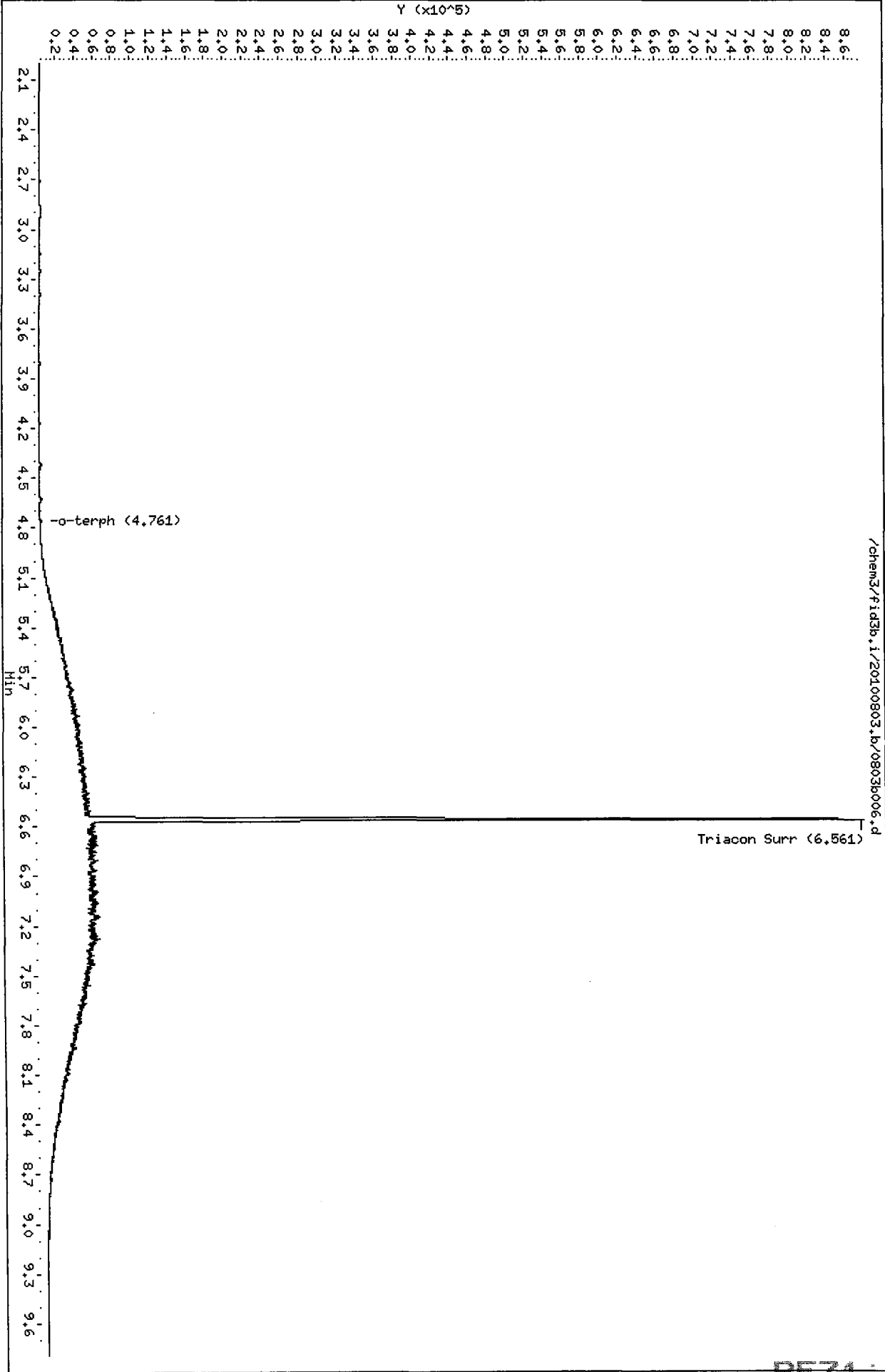
Sample Info: M01L#1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RF 71 : 01149

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b008.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: RF71MBS1
Client ID: RF71MBS1
Injection: 03-AUG-2010 19:39
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	295372	11
C8	----				DIESEL (C12-C24)	121970	6
C10	2.863	0.004	4012	3519	M.OIL (C24-C38)	113570	9
C12	3.476	0.009	1734	886	AK-102 (C10-C25)	240461	10
C14	3.925	-0.001	1732	2397	AK-103 (C25-C36)	88453	10
C16	4.326	0.006	1082	963	OR.DIES (C10-C28)	245135	12
C18	4.674	0.000	505	259	OR.MOIL (C28-C40)	145228	13
C20	5.004	0.006	567	310			
C22	5.296	0.001	349	54	STODDARD (C8-C12)	295372	11
C24	5.601	-0.002	224	115			
C25	5.759	-0.005	122	57			
C26	5.926	0.004	196	165			
C28	6.240	-0.003	512	403			
C32	6.866	0.011	2565	3375			
C34	7.146	0.003	909	413	CREOSOT (C8-C22)	413846	65
Filter Peak	----						
C36	7.404	-0.010	1270	673	BUNKERC (C10-C38)	353787	41
o-terph	4.762	-0.001	1670567	963090	JET-A (C10-C18)	212871	13
Triacon Surr	6.559	-0.002	821218	735889	IT.MOIL (C24-C40)	886036	41

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	963090	48.3	107.4
Triacotane	735889	44.0	97.8

MS 8/4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100803.b/0803b008.d

Date : 03-AUG-2010 19:39

Client ID: RF71MBS1

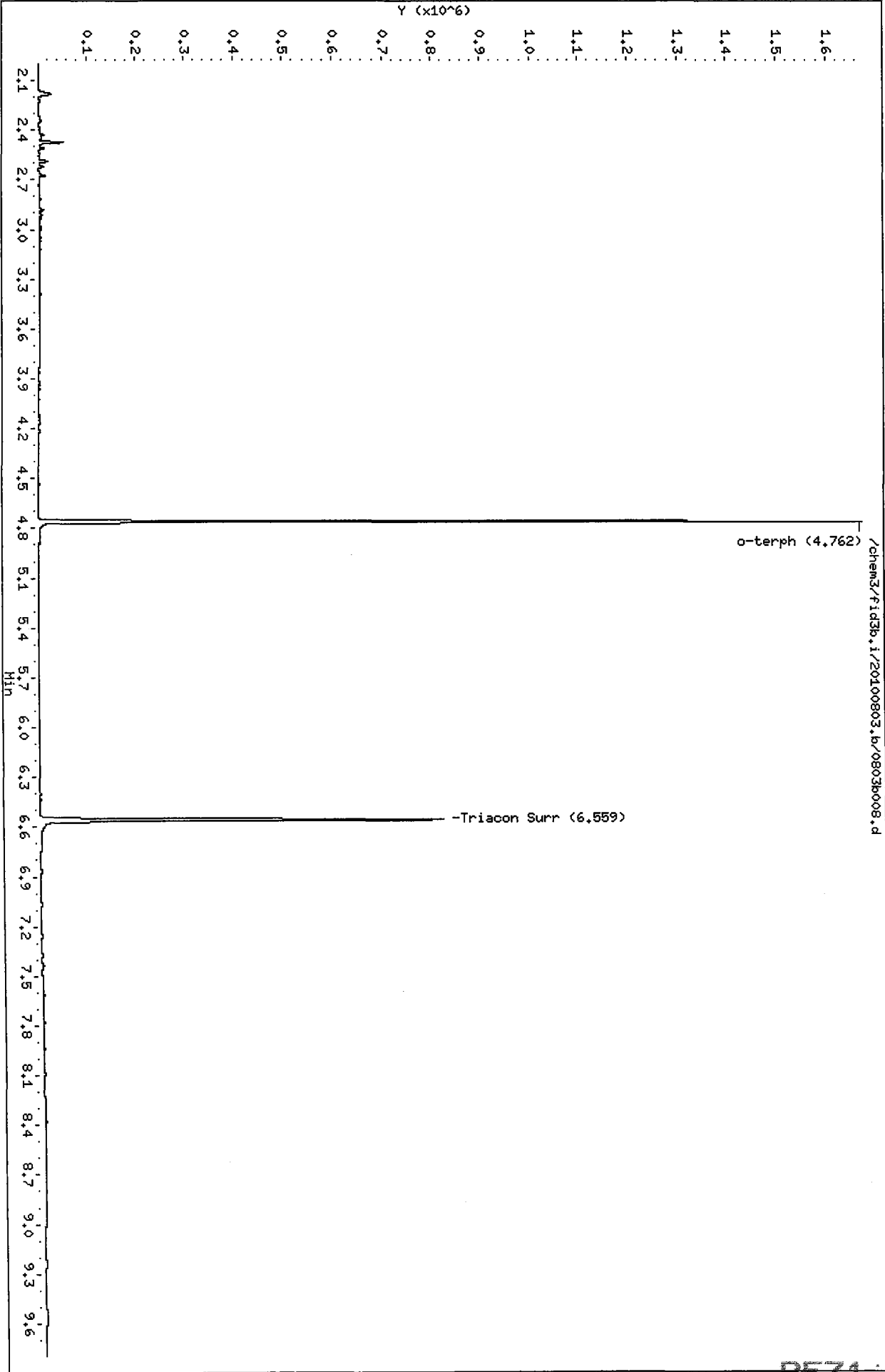
Sample Info: RF71MBS1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RF71:01151

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b009.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: RF71LCSS1
Client ID: RF71LCSS1
Injection: 03-AUG-2010 19:58
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3732023	136
C8	----				DIESEL (C12-C24)	27391005	1280
C10	2.855	-0.003	131281	92422	M.OIL (C24-C38)	342789	28
C12	3.467	0.000	395395	248129	AK-102 (C10-C25)	30520985	1266
C14	3.925	-0.001	688695	560754	AK-103 (C25-C36)	262101	29
C16	4.323	0.004	1180913	1048599	OR.DIES (C10-C28)	30735971	1457
C18	4.678	0.003	1000133	872986	OR.MOIL (C28-C40)	71355	6
C20	4.998	0.000	673287	604514			
C22	5.295	0.000	290473	281476	STODDARD (C8-C12)	3732023	135
C24	5.602	-0.001	76698	95641			
C25	5.762	-0.002	32207	49770			
C26	5.925	0.002	12393	16991			
C28	6.243	0.000	2361	2381			
C32	6.847	-0.008	524	160			
C34	7.141	-0.001	269	55	CREOSOT (C8-C22)	30188676	4720
Filter Peak	----						
C36	7.414	0.000	353	60	BUNKERC (C10-C38)	30791896	3563
o-terph	4.764	0.002	1596695	886588	JET-A (C10-C18)	22197016	1401
Triacon Surr	6.560	-0.001	854571	762508	IT.MOIL (C24-C40)	1120727	52

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	886588	44.5	98.8
Triacotane	762508	45.6	101.3

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst MA Date 8/4/10

Data File: /chem3/fid3b.i/20100803.b/0803b009.d

Date: 03-AUG-2010 19:58

Client ID: RF71LCSS1

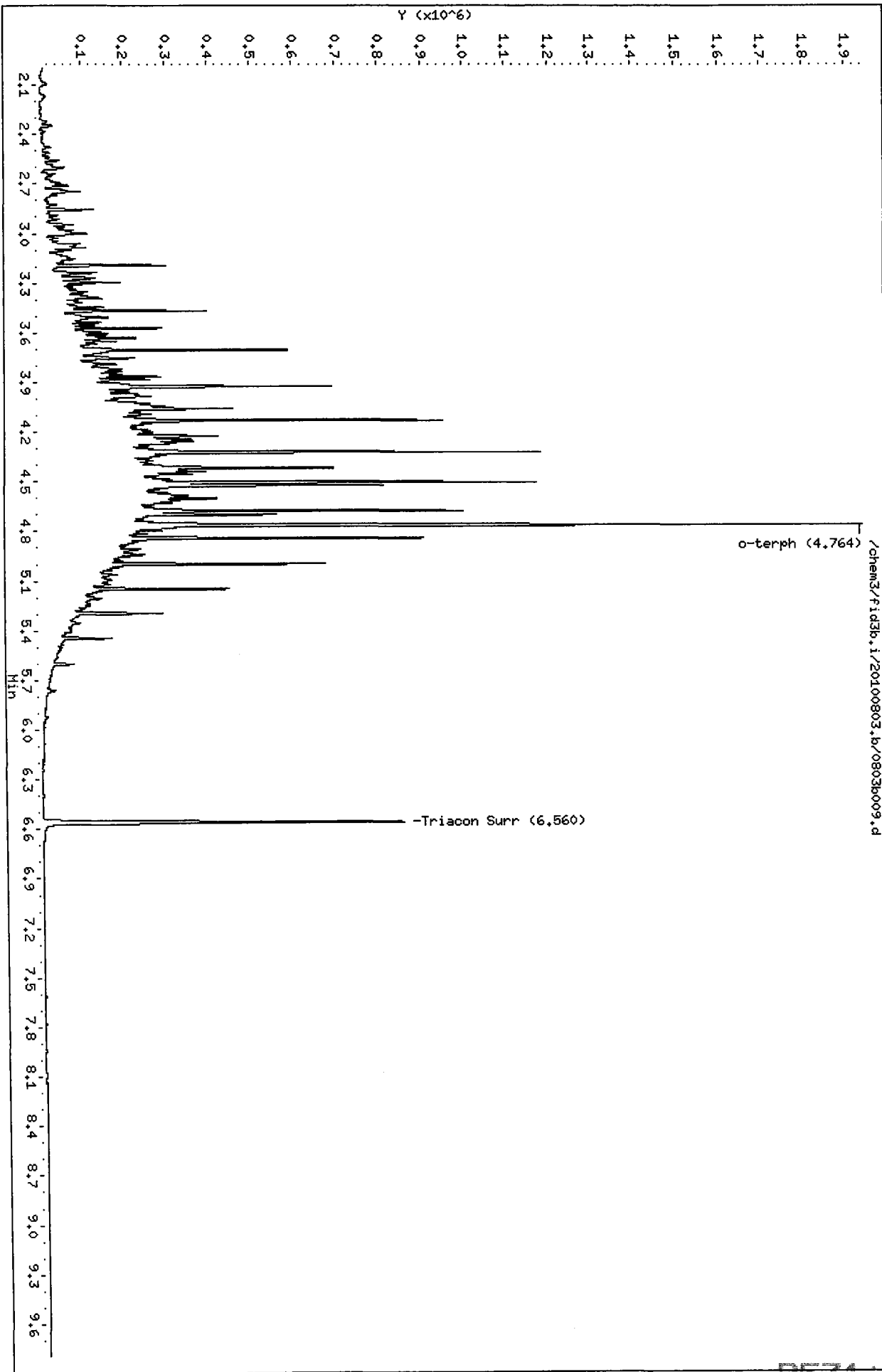
Sample Info: RF71LCSS1

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



RF71:01150

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b010.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: RF71LCSDS1
Client ID: RF71LCSDS1
Injection: 03-AUG-2010 20:17
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3613951	132
C8	----				DIESEL (C12-C24)	25656567	1199
C10	2.857	-0.002	140604	90547	M.OIL (C24-C38)	396586	33
C12	3.467	0.000	367384	259967	AK-102 (C10-C25)	28675240	1190
C14	3.927	0.001	662605	613491	AK-103 (C25-C36)	311458	35
C16	4.324	0.004	1125278	902466	OR.DIES (C10-C28)	28882317	1369
C18	4.677	0.003	1041131	791129	OR.MOIL (C28-C40)	134250	12
C20	4.997	-0.001	638344	492891			
C22	5.295	0.000	278464	250675	STODDARD (C8-C12)	3613951	131
C24	5.602	-0.001	74548	61869			
C25	5.761	-0.003	31346	48540			
C26	5.925	0.002	11683	15170			
C28	6.242	-0.001	2581	2596			
C32	6.864	0.009	3149	2546			
C34	7.141	-0.001	1579	599	CREOSOT (C8-C22)	28390075	4439
Filter Peak	----						
C36	7.417	0.003	1156	137	BUNKERC (C10-C38)	28999465	3355
o-terph	4.765	0.002	1548688	857420	JET-A (C10-C18)	21252527	1341
Triacon Surr	6.559	-0.002	795835	684750	IT.MOIL (C24-C40)	1098437	51

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

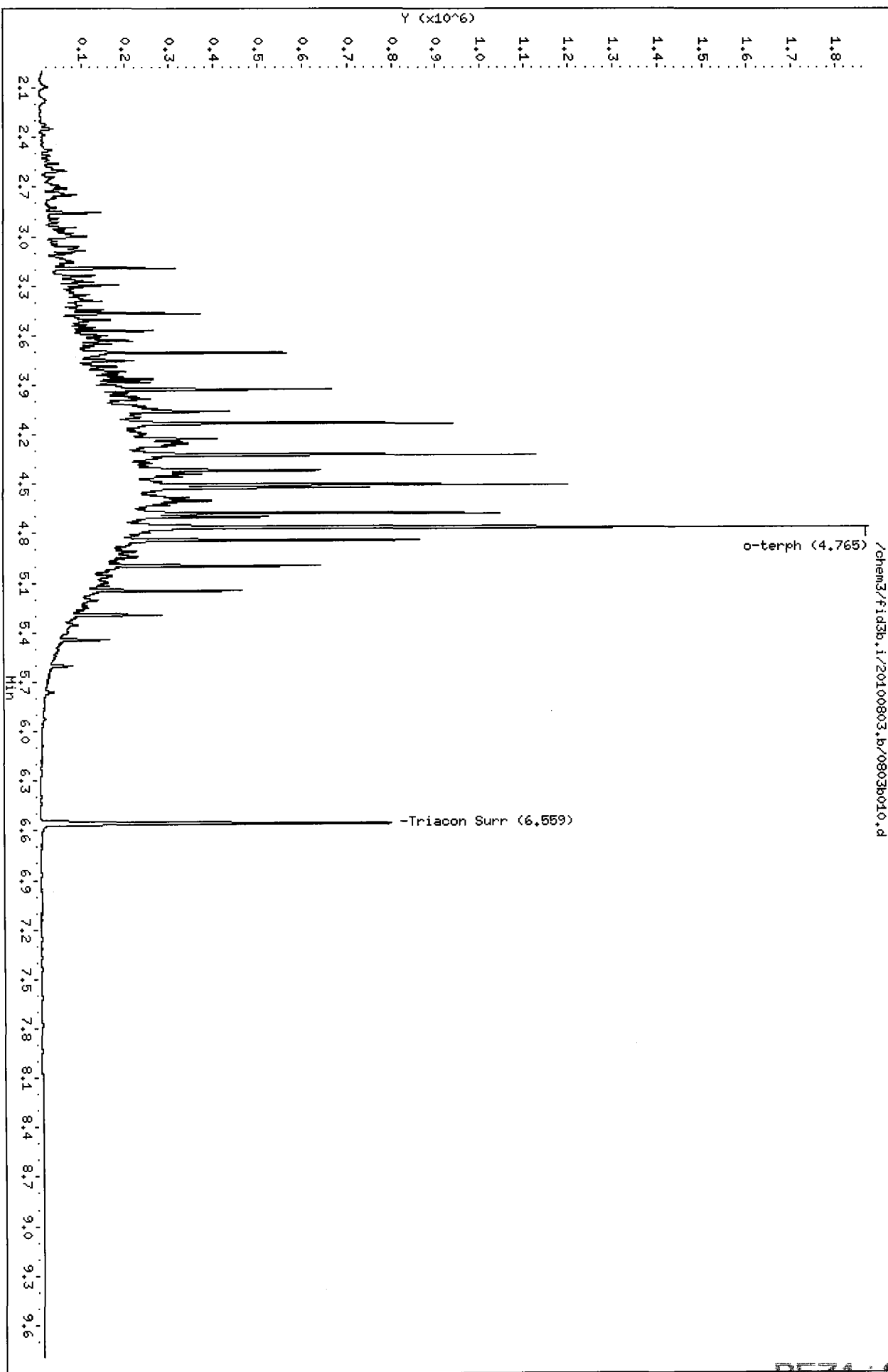
Surrogate	Area	Amount	%Rec
o-Terphenyl	857420	43.0	95.6
Triacotane	684750	40.9	91.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
- ③ Baseline Correction
4. Totals Calculation
5. Other

Analyst *M* Date 8/4/10



RF71 : 01 1 55

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b011.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: RF71A
Client ID: BW-07-SC-COMP-10072
Injection: 03-AUG-2010 20:36
Dilution Factor: 1

FID:3B RESULTS

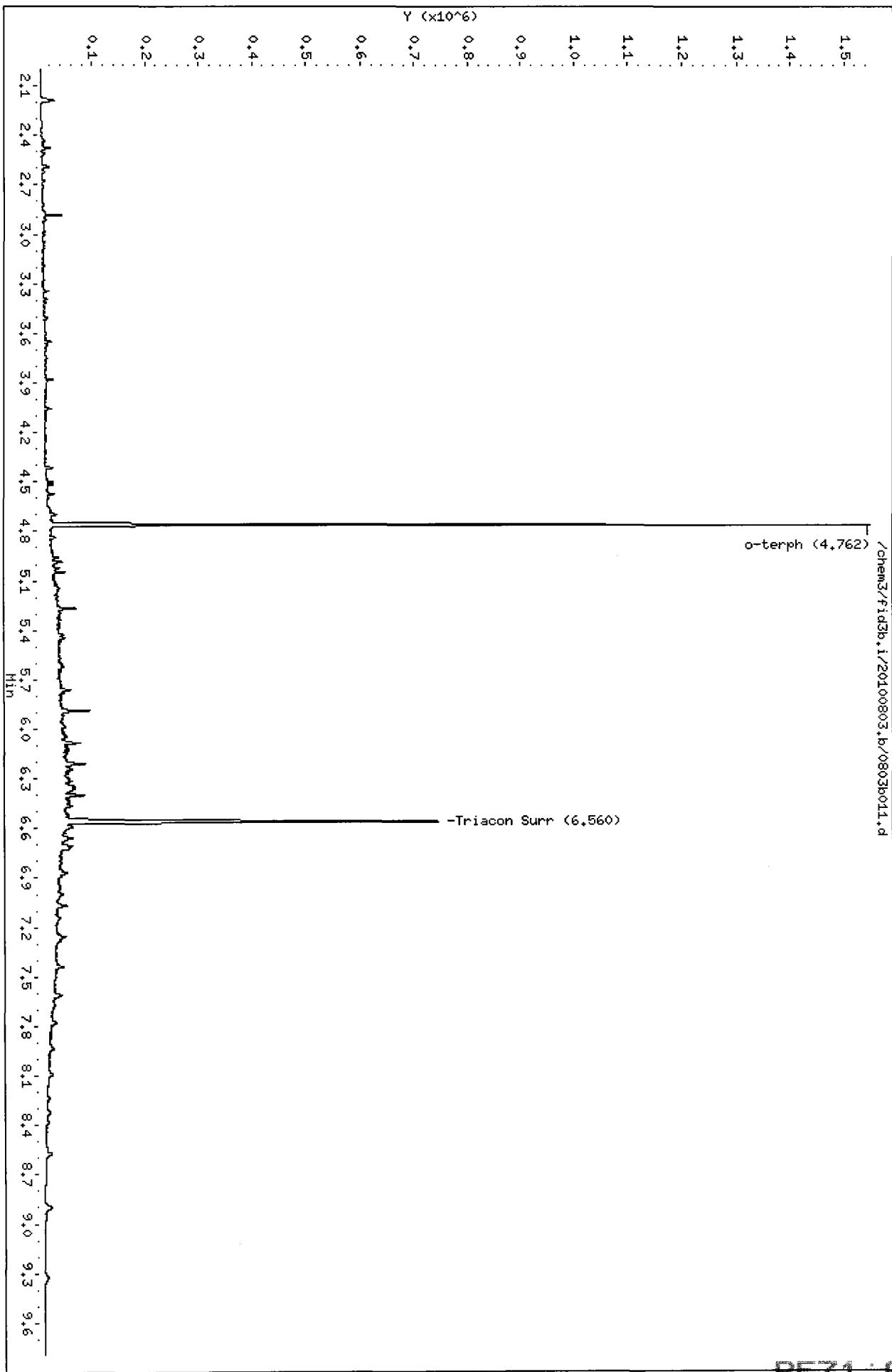
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	390636	14
C8	----				DIESEL (C12-C24)	2478553	116
C10	2.867	0.009	8939	9511	M.OIL (C24-C38)	4746933	393
C12	3.467	0.000	6740	4080	AK-102 (C10-C25)	2859550	119
C14	3.926	0.000	11307	7535	AK-103 (C25-C36)	4241861	475
C16	4.320	0.000	10235	8852	OR.DIES (C10-C28)	4395575	208
C18	4.673	-0.002	20897	16417	OR.MOIL (C28-C40)	3338294	296
C20	5.002	0.004	25744	13441			
C22	5.294	-0.001	37668	25373	STODDARD (C8-C12)	390636	14
C24	5.605	0.002	40250	8720			
C25	5.761	-0.003	56258	59815			
C26	5.920	-0.002	41494	7292			
C28	6.242	-0.002	60205	53330			
C32	6.857	0.002	40993	6419			
C34	7.142	-0.001	36809	15176	CREOSOT (C8-C22)	2183109	341
Filter Peak	----						
C36	7.419	0.005	30713	10710	BUNKERC (C10-C38)	7475177	865
o-terph	4.762	-0.001	1521539	786399	JET-A (C10-C18)	1039340	66
Triacon Surr	6.560	-0.001	690766	625852	IT.MOIL (C24-C40)	5631478	262

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	786399	39.5	87.7
Triacantane	625852	37.4	83.2

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst *AM* Date *8/4/10*



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b023.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: DIESEL#2
Client ID:
Injection: 04-AUG-2010 00:25
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	876493	32
C8	----				DIESEL (C12-C24)	5366897	251
C10	2.858	-0.001	28311	20875	M.OIL (C24-C38)	76699	6
C12	3.466	-0.001	74276	48355	AK-102 (C10-C25)	6075997	252
C14	3.923	-0.003	146906	118196	AK-103 (C25-C36)	52304	6
C16	4.319	-0.001	243110	192507	OR.DIES (C10-C28)	6116446	290
C18	4.673	-0.002	211919	165991	OR.MOIL (C28-C40)	38608	3
C20	4.995	-0.003	127637	103357			
C22	5.294	-0.001	52109	49445	STODDARD (C8-C12)	876493	32
C24	5.605	0.002	9988	11025			
C25	5.766	0.002	3308	1040			
C26	5.925	0.003	1321	455			
C28	6.246	0.003	232	130			
C32	6.864	0.009	468	462			
C34	7.144	0.002	167	54	CREOSOT (C8-C22)	6060482	948
Filter Peak	----						
C36	7.416	0.002	439	94	BUNKERC (C10-C38)	6138320	710
o-terph	4.762	-0.001	1577432	910141	JET-A (C10-C18)	4535028	286
Triacon Surr	6.558	-0.003	47	9	IT.MOIL (C24-C40)	93443	4

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	910141	45.7	101.5
Triacantane	9	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Refset *[Signature]* Date *8/4/10*

Data File: /chem3/fid3b.i/20100803.b/0803b023.d

Date : 04-AUG-2010 00:25

Client ID:

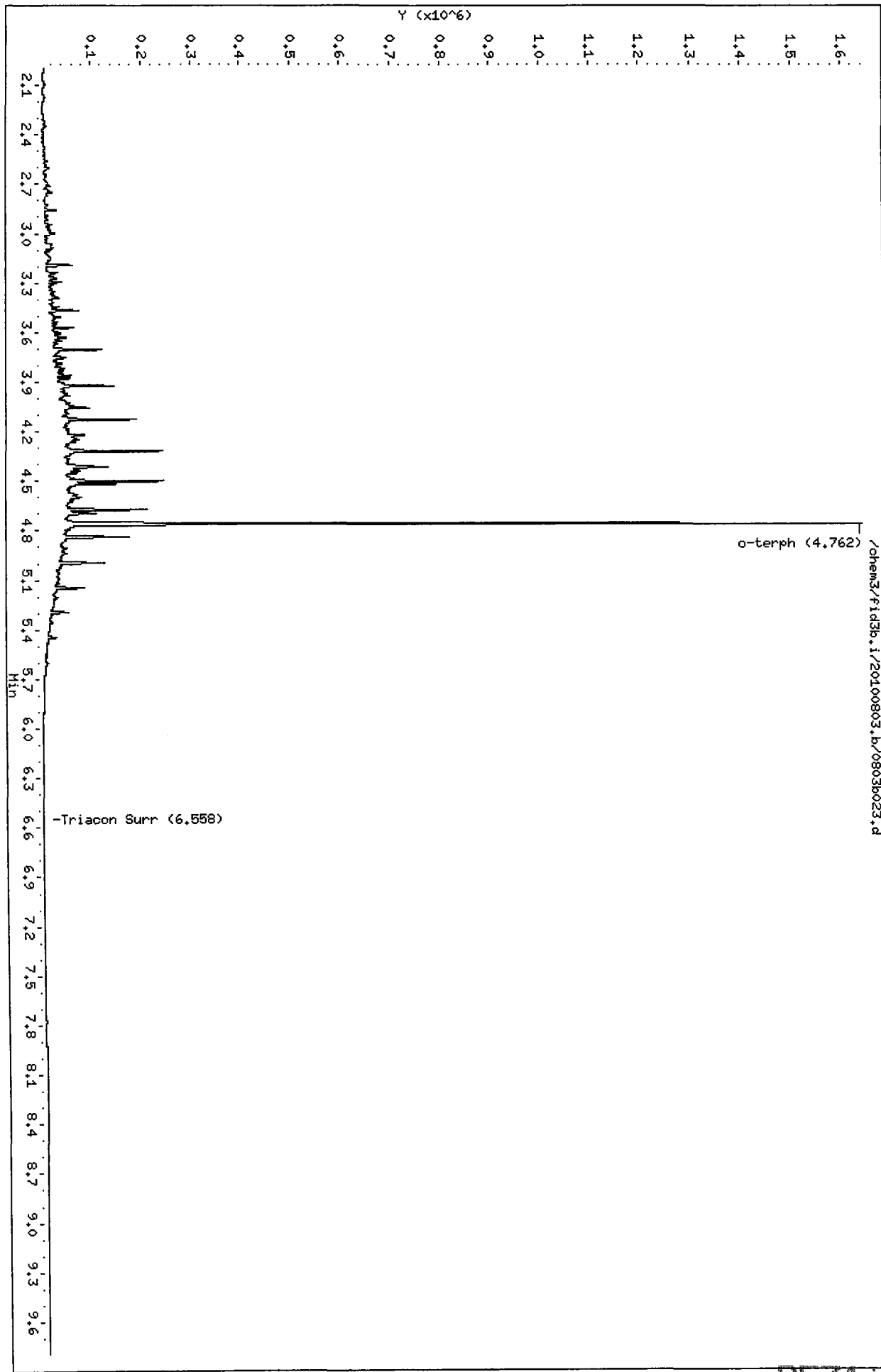
Sample Info: DIESEL#2

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RF 71 : 01159

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803b024.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/04/2010
Macro: FID:3B073010

ARI ID: MOIL#2
Client ID:
Injection: 04-AUG-2010 00:44
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	58900	2
C8	----				DIESEL (C12-C24)	702323	33
C10	2.856	-0.002	1261	1450	M.OIL (C24-C38)	6031207	499
C12	3.465	-0.002	790	218	AK-102 (C10-C25)	844804	35
C14	3.927	0.001	570	145	AK-103 (C25-C36)	5212674	584
C16	4.321	0.002	389	68	OR.DIES (C10-C28)	2238029	106
C18	4.676	0.001	813	184	OR.MOIL (C28-C40)	5064271	449
C20	4.999	0.001	4093	1363			
C22	5.295	0.000	15129	4457	STODDARD (C8-C12)	58900	2
C24	5.602	-0.001	28188	13598			
C25	5.764	0.000	34673	21032			
C26	5.923	0.000	38656	13594			
C28	6.245	0.001	48596	23900			
C32	6.856	0.000	58465	14798			
C34	7.143	0.001	61204	30077	CREOSOT (C8-C22)	329141	51
Filter Peak	----						
C36	7.418	0.004	55566	29821	BUNKERC (C10-C38)	6772831	784
o-terph	4.761	-0.002	3160	4051	JET-A (C10-C18)	81501	5
Triacon Surr	6.562	0.001	902144	792091	IT.MOIL (C24-C40)	7352767	342

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4051	0.2	0.5
Triacontane	792091	47.4	105.2

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst *AM* Date *8/4/10*

Data File: /chem3/fid3b.i/20100803.b/0803b024.d

Date : 04-AUG-2010 00:44

Client ID:

Sample Info: MOIL#2

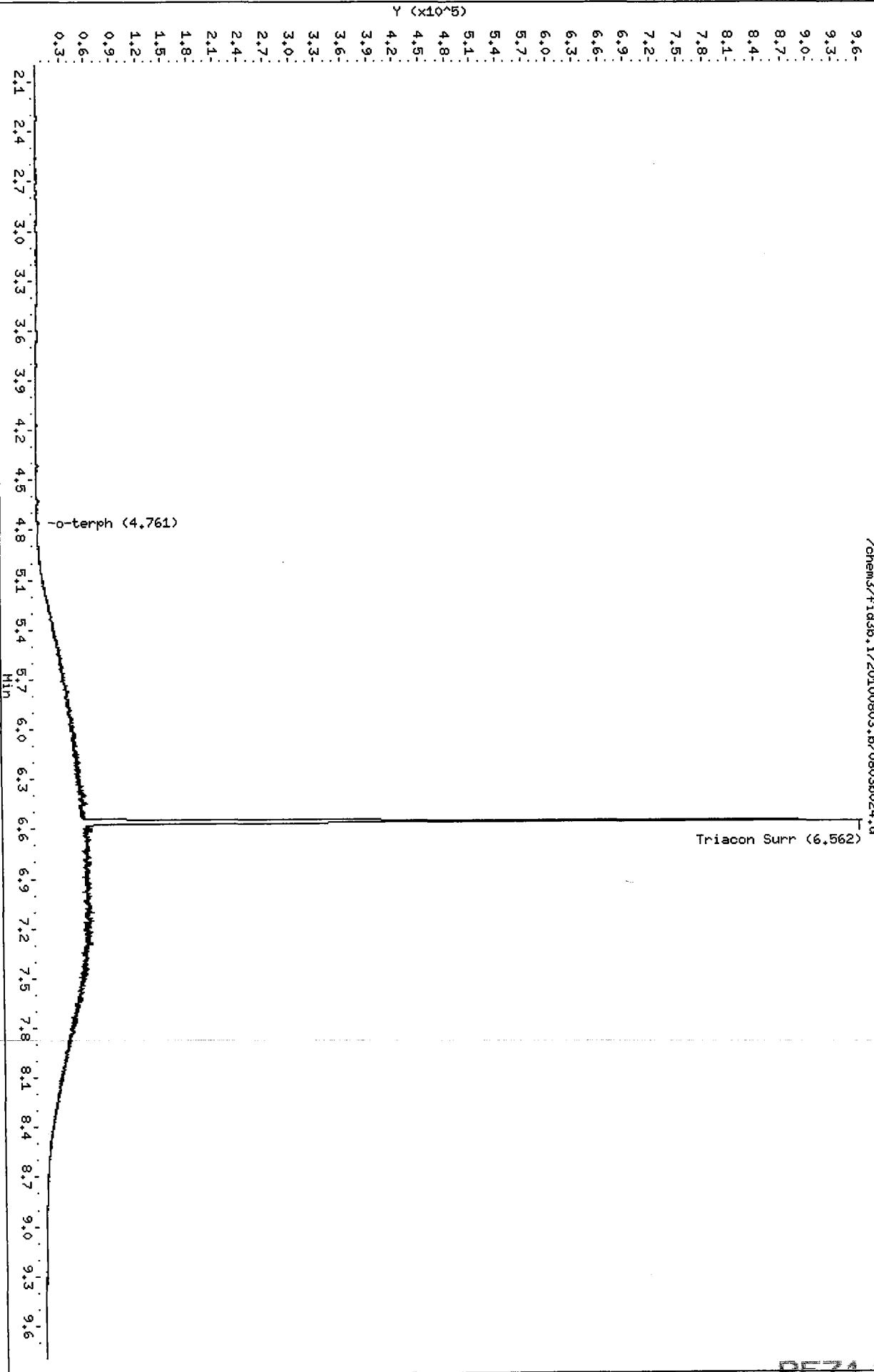
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

/chem3/fid3b.i/20100803.b/0803b024.d



MANUAL INTEGRATION SUMMARY FOR DATAATCH - /chem3/fid3b.i/20100803.b

ARI Job No.: RINS Method: i/20100803.b/ftphfid3b.m Instrument: fid3b.i Date: 03-AUG-2010

Time Filename LabID ClientId DF Manually Integrated Compounds

1237 0803b001.d RINSE 1 NO MANUAL INTEGRATION

1256 0803b002.d RINSE 1 NO MANUAL INTEGRATION

1315 0803b003.d RT RT 1 Toluene, C8,

1334 0803b004.d IB IB 1 NO MANUAL INTEGRATION

1354 0803b005.d DIESEL#1 GTSP 1 o-terph,

1413 0803b006.d MOIL#1 GTSP 1 Triacon Surr,

1920 0803b007.d RINSE 1 NO MANUAL INTEGRATION

1939 0803b008.d RF7IMBS1 RF7IMBS1 1 NO MANUAL INTEGRATION

1958 0803b009.d RF71LCSS1 RF71LCSS1 1 o-terph,

2017 0803b010.d RF71LCSDS1 RF71LCSDS1 1 o-terph,

2036 0803b011.d RF71A BW-07-SC-C 1 o-terph, Triacon Surr,

2056 0803b012.d RG13A LLASB02-5 1 o-terph, Triacon Surr,

2115 0803b013.d RG13B LLASB02-2 5 o-terph, Triacon Surr,

2134 0803b014.d RG13C LLASB02-8 1 NO MANUAL INTEGRATION

2153 0803b015.d RG13D LLASB07-2 1 o-terph, Triacon Surr,

2212 0803b016.d RG13E LLASB07-5 1 o-terph, Triacon Surr,

2231 0803b017.d RG13EMS LLASB07-5 1 o-terph, Triacon Surr,

2251 0803b018.d RG13EMSD LLASB07-5 1 o-terph, Triacon Surr,

2310 0803b019.d RG13F LLASB07-8 1 o-terph, Triacon Surr,

2329 0803b020.d RG13G LLASB12-2 1 o-terph, Triacon Surr,

2348 0803b021.d RG13H LLASB12-5 1 o-terph, Triacon Surr,

0006 0803b022.d RG13I LLASB12-7. 1 o-terph, Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/fid3b.i/20100803.b

Time Filename LabID ClientId DF Manually Integrated Compounds

0025 0803b023.d DIESEL#2 GTSP 1 o-terph,

0044 0803b024.d MOIL#2 GTSP 1 Triacon Surr,

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803raw.b/0803b005.d ARI ID: DIESEL#1
 Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 03-AUG-2010 13:54
 Operator: MS Dilution Factor: 1
 Report Date: 08/04/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	814127	30
C8	----				DIESEL (C12-C24)	5153779	241
C10	2.857	-0.001	27675	19836	M.OIL (C24-C38)	86188	7
C12	3.466	-0.001	69171	49924	AK-102 (C10-C25)	5812838	241
C14	3.924	-0.002	134177	112429	AK-103 (C25-C36)	59960	7
C16	4.319	0.000	232014	197947	OR.DIES (C10-C28)	5852643	278
C18	4.674	-0.001	207730	180092	OR.MOIL (C28-C40)	59546	5
C20	4.996	-0.002	120482	97458			
C22	5.293	-0.002	47722	49055	STODDARD (C8-C12)	814127	29
C24	5.602	-0.001	8645	4799			
C25	5.765	0.001	2828	389			
C26	5.925	0.003	1200	237			
C28	6.246	0.003	232	79			
C32	6.866	0.011	805	1208			
C34	7.144	0.001	288	55	CREOSOT (C8-C22)	5795790	906
Filter Peak	----						
C36	7.412	-0.002	653	255	BUNKERC (C10-C38)	5885601	681
o-terph	4.762	-0.001	1650995	1070689	JET-A (C10-C18)	4461095	281
Triacon Surr	6.561	0.000	59	17	IT.MOIL (C24-C40)	112794	5

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
 AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1070689	53.7	119.4
Triacontane	17	0.0	0.0

M 8/4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100803.b/0803rsw.b/0803b005.d

Date : 03-AUG-2010 13:54

Client ID:

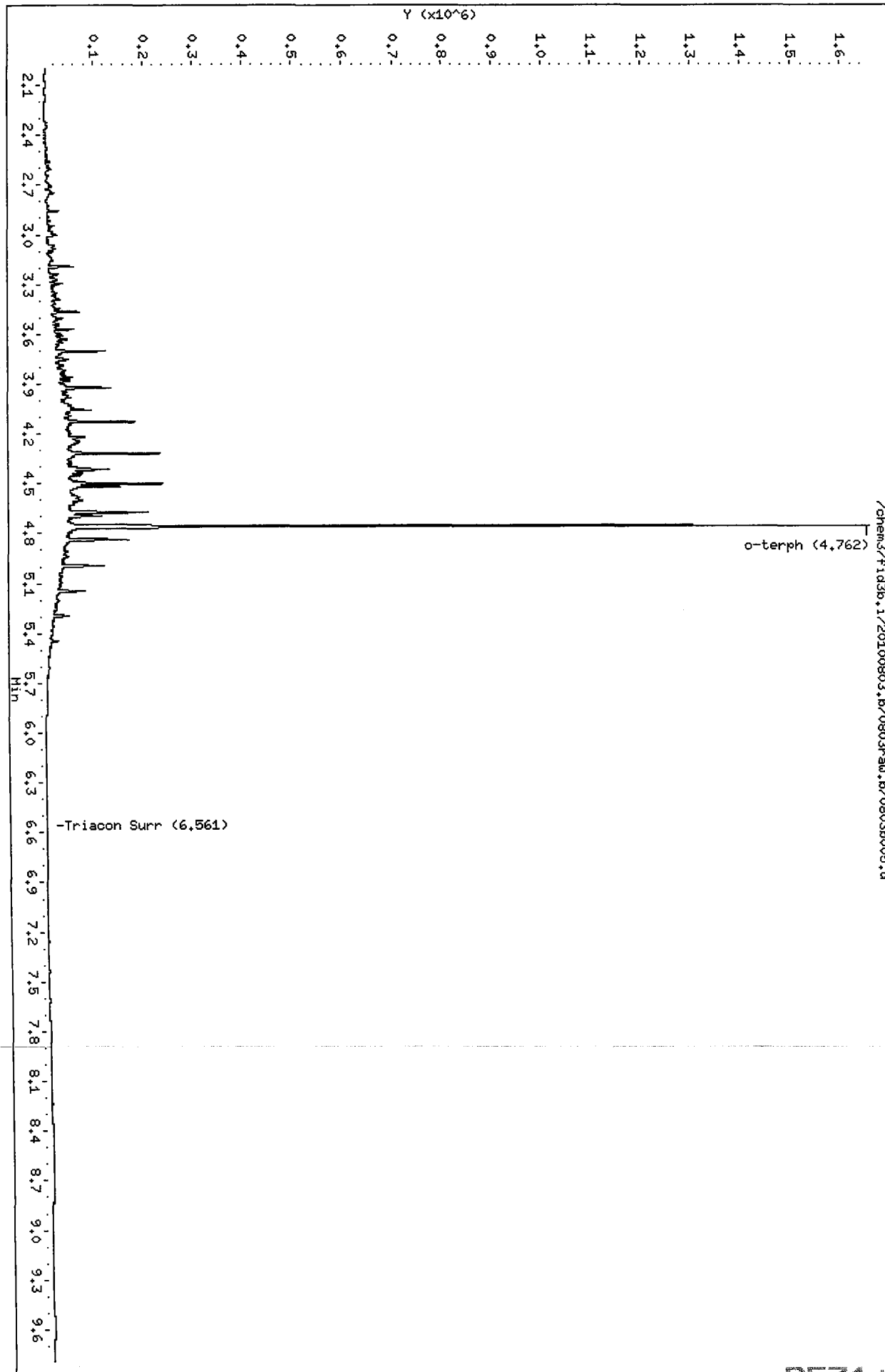
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803raw.b/0803b006.d ARI ID: MOIL#1
 Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 03-AUG-2010 14:13
 Operator: MS Dilution Factor: 1
 Report Date: 08/04/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	41558	2
C8	----				DIESEL (C12-C24)	677590	32
C10	2.860	0.002	1057	852	M.OIL (C24-C38)	5745613	476
C12	3.465	-0.002	614	277	AK-102 (C10-C25)	799410	33
C14	3.925	-0.001	421	98	AK-103 (C25-C36)	4956870	555
C16	4.316	-0.004	287	133	OR.DIES (C10-C28)	2169811	103
C18	4.673	-0.001	650	150	OR.MOIL (C28-C40)	4827631	428
C20	4.998	0.000	3929	696			
C22	5.291	-0.004	14294	3640	STODDARD (C8-C12)	41558	2
C24	5.604	0.001	27369	7508			
C25	5.763	-0.001	33480	10477			
C26	5.924	0.001	38269	6765			
C28	6.240	-0.003	48266	19601			
C32	6.851	-0.004	57543	33499			
C34	7.140	-0.002	59853	14168	CREOSOT (C8-C22)	296571	46
Filter Peak	----						
C36	7.411	-0.003	55852	13996	BUNKERC (C10-C38)	6451340	746
o-terph	4.761	-0.002	2748	3688	JET-A (C10-C18)	62464	4
Triacon Surr	6.561	0.000	875171	917775	IT.MOIL (C24-C40)	7209489	336

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
 AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3688	0.2	0.4
Triacontane	917775	54.9	121.9

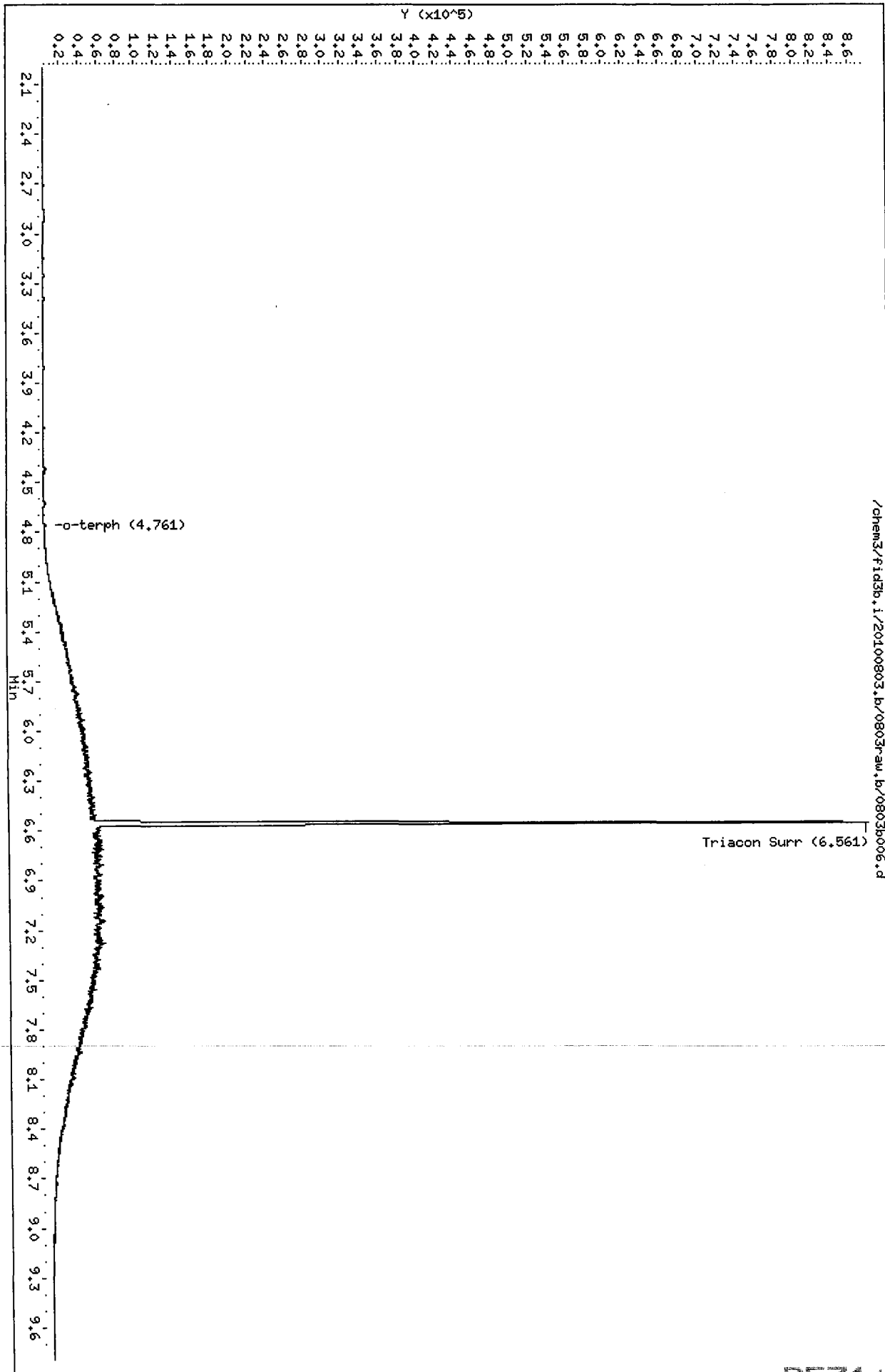
Aug 4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100803.b/0803r-sw.b/0803b006.d
Date : 03-AUG-2010 14:13

Client ID:
Sample Info: MOIL#1
Column phase: RTX-1

Instrument: fid3b.i
Operator: HS
Column diameter: 2.00



Before

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803raw.b/0803b011.d ARI ID: RF71A
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m Client ID: BW-07-SC-COMP-10072
Instrument: fid3b.i Injection: 03-AUG-2010 20:36
Operator: MS Dilution Factor: 1
Report Date: 08/04/2010
Macro: FID:3B073010

FID:3B RESULTS

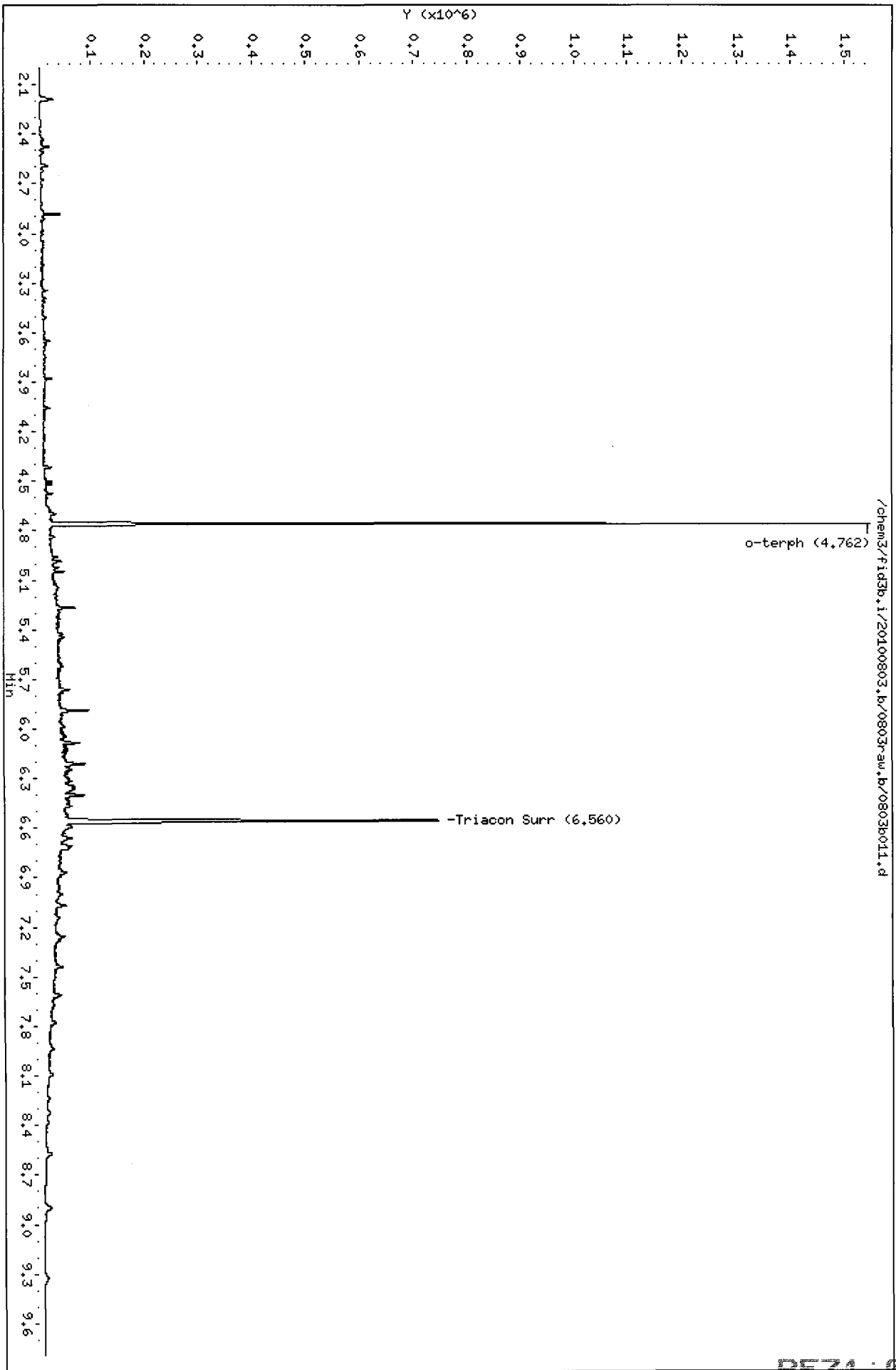
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	390636	14
C8	----				DIESEL (C12-C24)	2421378	113
C10	2.867	0.009	8939	9511	M.OIL (C24-C38)	4611594	382
C12	3.467	0.000	6740	4080	AK-102 (C10-C25)	2802376	116
C14	3.926	0.000	11307	7535	AK-103 (C25-C36)	4106522	460
C16	4.320	0.000	10235	8852	OR.DIES (C10-C28)	4338401	206
C18	4.673	-0.002	20897	16417	OR.MOIL (C28-C40)	3202955	284
C20	5.002	0.004	25744	13441			
C22	5.294	-0.001	37668	25373	STODDARD (C8-C12)	390636	14
C24	5.605	0.002	40250	8720			
C25	5.761	-0.003	56258	59815			
C26	5.920	-0.002	41494	7292			
C28	6.242	-0.002	60205	53330			
C32	6.857	0.002	40993	6419			
C34	7.142	-0.001	36809	15176	CREOSOT (C8-C22)	2125934	332
Filter Peak	----						
C36	7.419	0.005	30713	10710	BUNKERC (C10-C38)	7282663	843
o-terph	4.762	-0.001	1546989	843128	JET-A (C10-C18)	1039340	66
Triacon Surr	6.560	-0.001	742708	760198	IT.MOIL (C24-C40)	5630484	262

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	843128	42.3	94.0
Triacontane	760198	45.4	101.0

No 8/4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803raw.b/0803b009.d ARI ID: RF71LCSS1
 Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m Client ID: RF71LCSS1
 Instrument: fid3b.i Injection: 03-AUG-2010 19:58
 Operator: MS Dilution Factor: 1
 Report Date: 08/04/2010
 Macro: FID:3B073010

FID:3B RESULTS

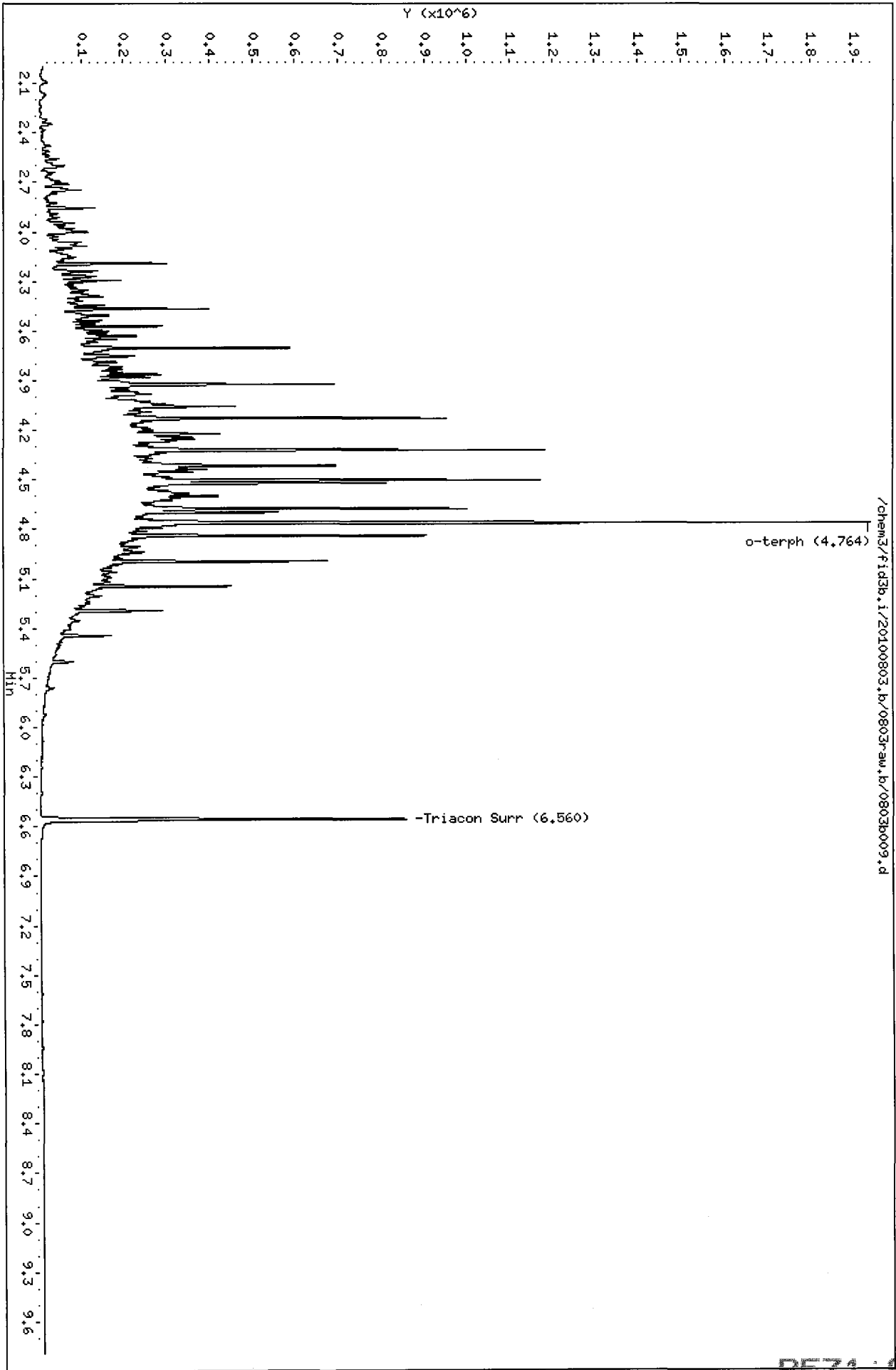
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3732023	136
C8	----				DIESEL (C12-C24)	26451702	1236
C10	2.855	-0.003	131281	92422	M.OIL (C24-C38)	342789	28
C12	3.467	0.000	395395	248129	AK-102 (C10-C25)	29581682	1227
C14	3.925	-0.001	688695	560754	AK-103 (C25-C36)	262101	29
C16	4.323	0.004	1180913	1048599	OR.DIES (C10-C28)	29796668	1413
C18	4.678	0.003	1000133	872986	OR.MOIL (C28-C40)	71355	6
C20	4.998	0.000	673287	604514			
C22	5.295	0.000	290473	281476	STODDARD (C8-C12)	3732023	135
C24	5.602	-0.001	76698	95641			
C25	5.762	-0.002	32207	49770			
C26	5.925	0.002	12393	16991			
C28	6.243	0.000	2361	2381			
C32	6.847	-0.008	524	160			
C34	7.141	-0.001	269	55	CREOSOT (C8-C22)	29249373	4573
Filter Peak	----						
C36	7.414	0.000	353	60	BUNKERC (C10-C38)	29852593	3454
o-terph	4.764	0.002	1938500	1820983	JET-A (C10-C18)	22197016	1401
Triacon Surr	6.560	-0.001	854571	762508	IT.MOIL (C24-C40)	1120727	52

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
 AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1820983	91.4	203.0
Triacontane	762508	45.6	101.3

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Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803raw.b/0803b010.d ARI ID: RF71LCSDS1
 Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m Client ID: RF71LCSDS1
 Instrument: fid3b.i Injection: 03-AUG-2010 20:17
 Operator: MS Dilution Factor: 1
 Report Date: 08/04/2010
 Macro: FID:3B073010

FID:3B RESULTS

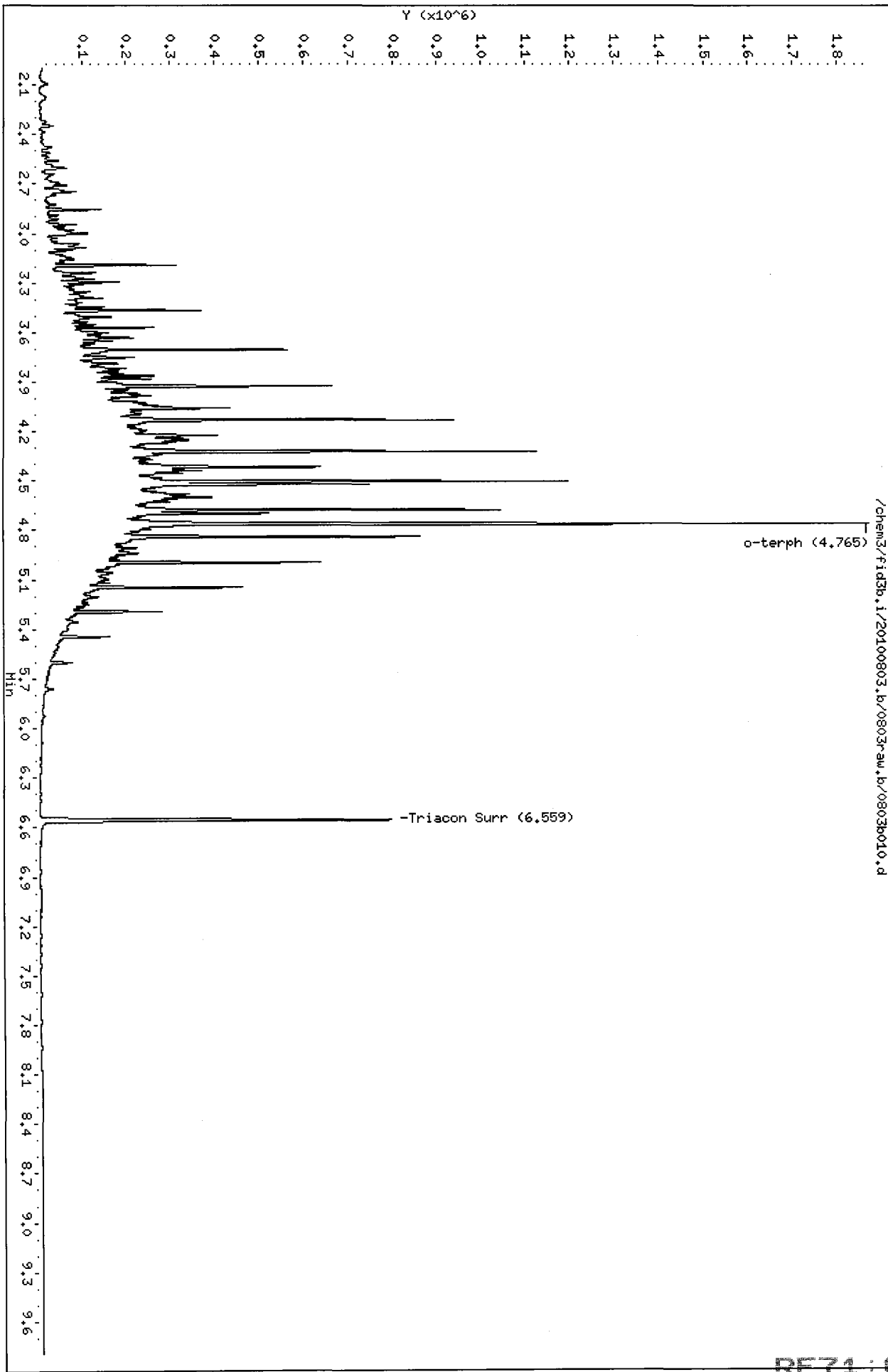
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3613951	132
C8	----				DIESEL (C12-C24)	25064610	1171
C10	2.857	-0.002	140604	90547	M.OIL (C24-C38)	396586	33
C12	3.467	0.000	367384	259967	AK-102 (C10-C25)	28083283	1165
C14	3.927	0.001	662605	613491	AK-103 (C25-C36)	311458	35
C16	4.324	0.004	1125278	902466	OR.DIES (C10-C28)	28290360	1341
C18	4.677	0.003	1041131	791129	OR.MOIL (C28-C40)	134250	12
C20	4.997	-0.001	638344	492891			
C22	5.295	0.000	278464	250675	STODDARD (C8-C12)	3613951	131
C24	5.602	-0.001	74548	61869			
C25	5.761	-0.003	31346	48540			
C26	5.925	0.002	11683	15170			
C28	6.242	-0.001	2581	2596			
C32	6.864	0.009	3149	2546			
C34	7.141	-0.001	1579	599	CREOSOT (C8-C22)	27798118	4346
Filter Peak	----						
C36	7.417	0.003	1156	137	BUNKERC (C10-C38)	28407508	3287
o-terph	4.765	0.002	1871221	1443807	JET-A (C10-C18)	21252527	1341
Triacon Surr	6.559	-0.002	795835	684750	IT.MOIL (C24-C40)	1098437	51

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
 AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1443807	72.4	161.0
Triacontane	684750	40.9	91.0

Ms 8/4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803raw.b/0803b023.d ARI ID: DIESEL#2
 Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 04-AUG-2010 00:25
 Operator: MS Dilution Factor: 1
 Report Date: 08/04/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	876493	32
C8	----				DIESEL (C12-C24)	5245445	245
C10	2.858	-0.001	28311	20875	M.OIL (C24-C38)	76699	6
C12	3.466	-0.001	74276	48355	AK-102 (C10-C25)	5954545	247
C14	3.923	-0.003	146906	118196	AK-103 (C25-C36)	52304	6
C16	4.319	-0.001	243110	192507	OR.DIES (C10-C28)	5994994	284
C18	4.673	-0.002	211919	165991	OR.MOIL (C28-C40)	38608	3
C20	4.995	-0.003	127637	103357			
C22	5.294	-0.001	52109	49445	STODDARD (C8-C12)	876493	32
C24	5.605	0.002	9988	11025			
C25	5.766	0.002	3308	1040			
C26	5.925	0.003	1321	455			
C28	6.246	0.003	232	130			
C32	6.864	0.009	468	462			
C34	7.144	0.002	167	54	CREOSOT (C8-C22)	5939030	929
Filter Peak	----						
C36	7.416	0.002	439	94	BUNKERC (C10-C38)	6016868	696
o-terph	4.762	-0.001	1638139	1030428	JET-A (C10-C18)	4535028	286
Triacon Surr	6.558	-0.003	47	9	IT.MOIL (C24-C40)	93443	4

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
 AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1030428	51.7	114.9
Triacontane	9	0.0	0.0

Mus/4/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date: 04-AUG-2010 00:25

Client ID:

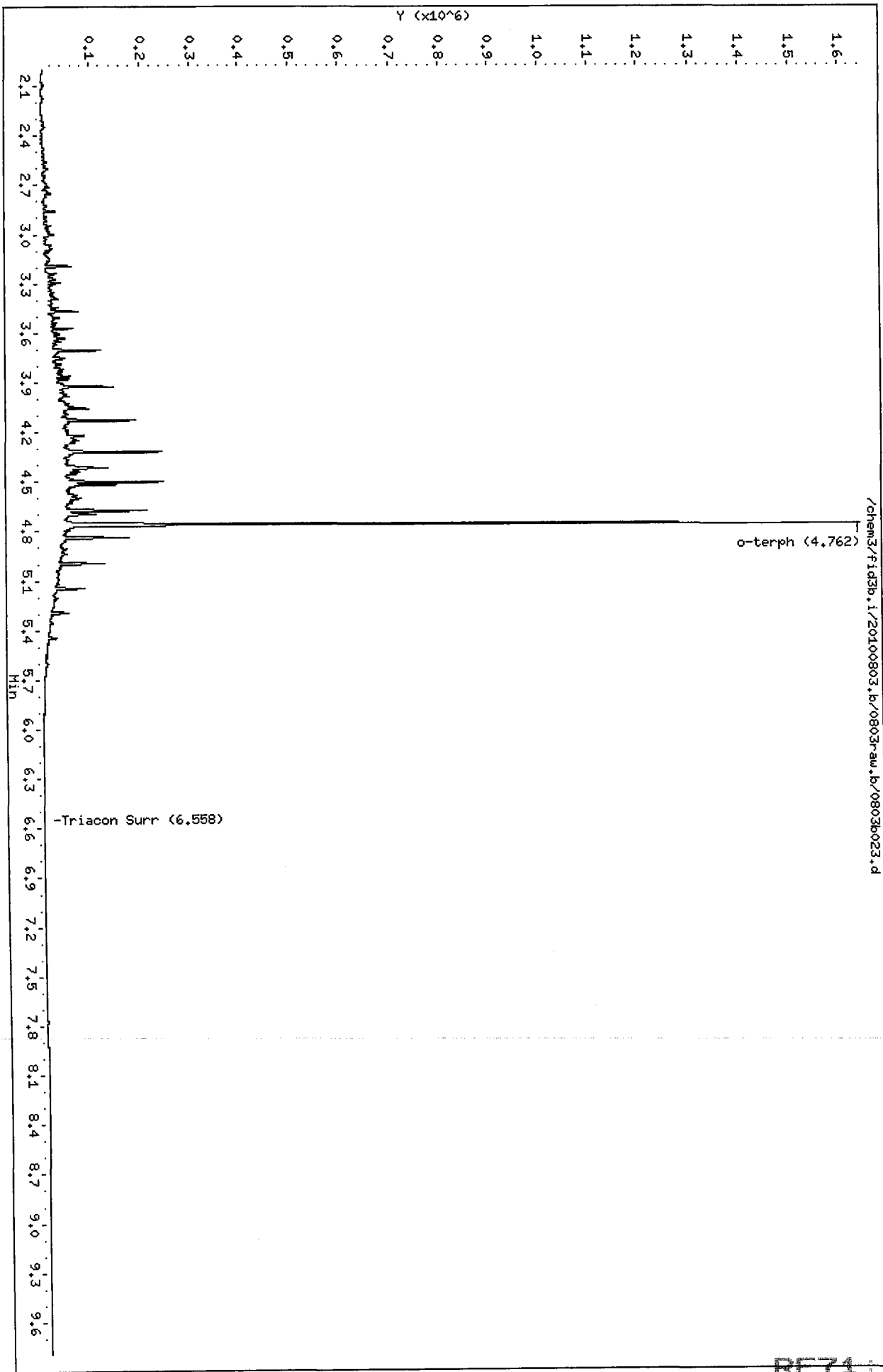
Instrument: fid3b.i

Sample Info: DIESEL#2

Operator: HS

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100803.b/0803raw.b/0803b024.d ARI ID: MOIL#2
 Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 04-AUG-2010 00:44
 Operator: MS Dilution Factor: 1
 Report Date: 08/04/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	58900	2
C8	----				DIESEL (C12-C24)	702323	33
C10	2.856	-0.002	1261	1450	M.OIL (C24-C38)	6357465	526
C12	3.465	-0.002	790	218	AK-102 (C10-C25)	844804	35
C14	3.927	0.001	570	145	AK-103 (C25-C36)	5538932	620
C16	4.321	0.002	389	68	OR.DIES (C10-C28)	2238029	106
C18	4.676	0.001	813	184	OR.MOIL (C28-C40)	5390529	478
C20	4.999	0.001	4093	1363			
C22	5.295	0.000	15129	4457	STODDARD (C8-C12)	58900	2
C24	5.602	-0.001	28188	13598			
C25	5.764	0.000	34673	21032			
C26	5.923	0.000	38656	13594			
C28	6.245	0.001	48596	23900			
C32	6.856	0.000	58465	14798			
C34	7.143	0.001	61204	30077	CREOSOT (C8-C22)	329141	51
Filter Peak	----						
C36	7.418	0.004	55566	29821	BUNKERC (C10-C38)	7099090	821
o-terph	4.761	-0.002	3160	4051	JET-A (C10-C18)	81501	5
Triacon Surr	6.562	0.001	957547	469996	IT.MOIL (C24-C40)	7356930	342

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
 AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

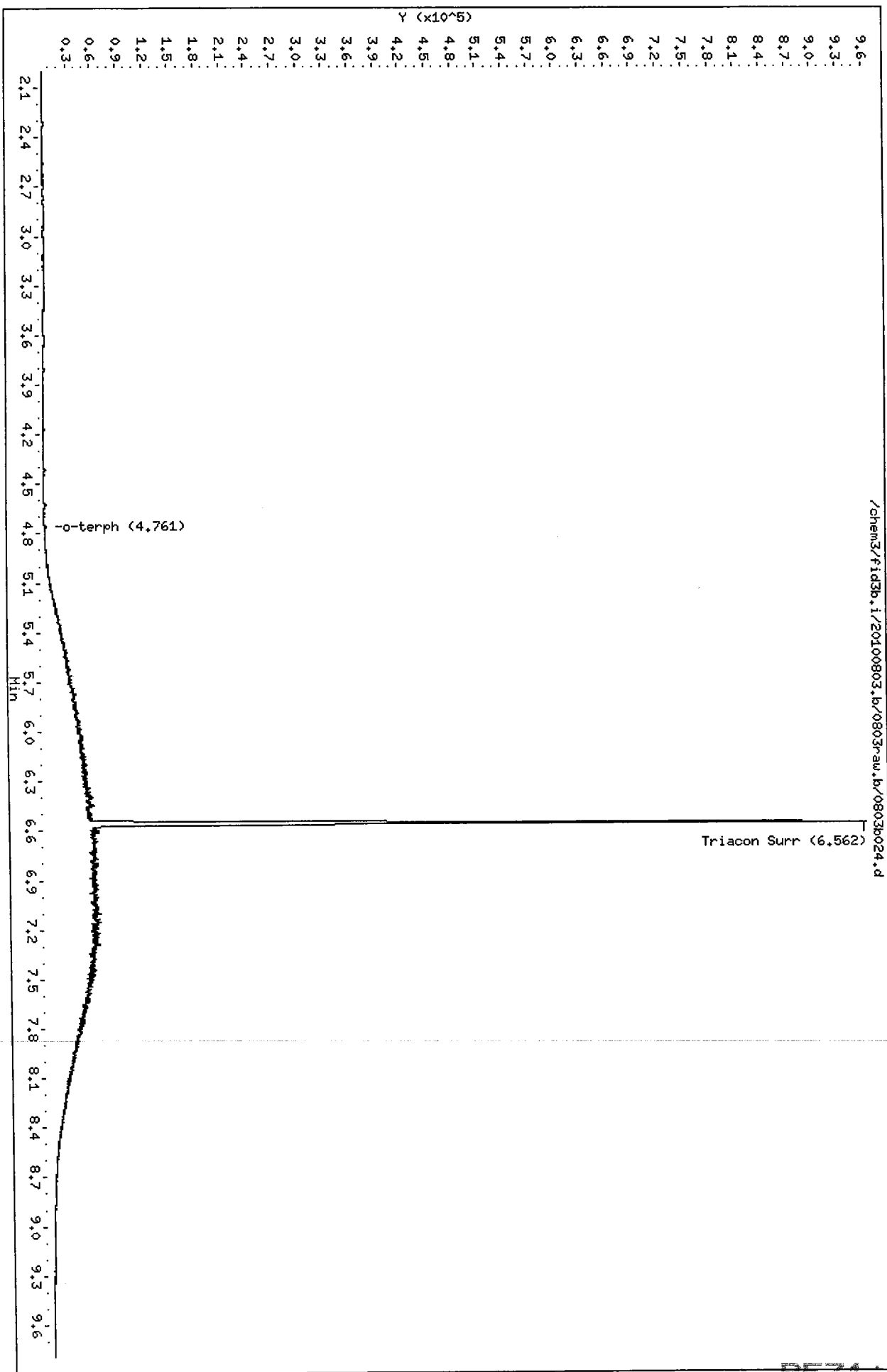
Surrogate	Area	Amount	%Rec
o-Terphenyl	4051	0.2	0.5
Triacontane	469996	28.1	62.4

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100803.b/0803rsw.b/0803b024.d
Date: 04-AUG-2010 00:44

Client ID:
Sample Info: M01L#2
Column phase: RTX-1

Instrument: fid3b.i
Operator: HS
Column diameter: 2.00



**Metals Raw Data
Preparation Bench Sheets and Notes**

ARI Job ID: RF71



SPIKING LOG

Analyst: MH

Final Volume 50

Sample ID RF71 ASPK MBSPK

Date: 7/28/10

Final Volume (Hg): 50

Prepcode:	ICP Routine	ICP No GFA	GFA
Spike Solution:	<u>Swc</u>		
Standard No.:	<u>2115-1</u>		
Vol Added (mL):	<u>1.0</u>		
Ag	50 ✓		2.0
Al	200	200	
As	200 ✓		10
Ba	200	200	
Be	50	50	
Ca	1000	1000	
Cd	50 ✓		2.0
Co	50	50	
Cr	50 ✓	50	
Cu	50 ✓	50	
Fe	200	200	
K	1000	1000	
Mg	1000	1000	
Mn	50	50	
Na	1000	1000	
Ni	50 ✓	50	
Pb	200 ✓		10
Se	200		10
Sr	50	50	
Tl	200		10
V	50	50	
Zn	50 ✓	50	

ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25	
Al		500
As	25	
Ba	25	
Be	25	
Ca		500
Cd	25	
Co	25	
Cr	25	
Cu	25	
Fe		500
K		500
Mg		500
Mn	25	
Mo		25
Na		500
Ni	25	
Pb	25	
Sb		25
Se	80	
Tl	25	
U	25	
V	25	
Zn	80	

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg	<u>SMM</u>	CVA	1.0	0.05	2674-13
Hg MBSPK	<u>↓</u>	CVA	1.0	0.1	<u>↓</u>
Sb	<u>Swc</u>	ICP	2000	0.1	2727-7
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.



Mercury Digestion Log

Prep Code: SMM

Matrix: Soil

Analyst: MH

Date: 7/28/10

Bath Temp: 95°C

Start Time: 1555

End Time: 1625

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CLP	Comments
RF99 A	6	—	0.249	50.0	7/29 1	Ⓢ	
" ADUP	6	—	0.252		1		
" ASPK	6	—	0.251		1		
" B	6	—	0.243		1		
" MBI	—	—	—		1		
" MBISPK	—	—	—		1		
RF71 A	1	—	0.241		8/09 1		
" ADUP	1	—	0.245		1		
" ASPK	1	—	0.239		1		
" MBI	—	—	—		1		
" MBISPK	—	—	—		1		
RG01 D	2	—	0.218		8/01 1		
" DDUP	2	—	0.214		1		
" DSPK	2	—	0.219		1		
" E	2	—	0.240		1		
" MBI	—	—	—	↓	1	↓	
" MBISPK	—	—	—	50.0	1	Ⓢ	
MH 7/28/10							

Chemical/Reagent ID:

HNO₃: I5547

H₂SO₄: I5387

HCl: —

5% K₂S₂O₈: MPR10

5% KMnO₄: MP1911

Digest Tube Lot: 100071



Digestion Log

Analyst: MH
Matrix: Soil

Date: 7/28/10
Block Temp: 90°C

ARI Sample ID	Btl #	pH<2	Prep Code: <u>SWC</u>		Prep Code: <u>SWN</u>		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
RF99 A	6	—	1.042	50.0	1.052	50.0	
" ADUP	6	—	1.046		1.053		
" ASPK	6	—	1.040		1.052		
" B	6	—	1.069		1.038		
" MBI	—	—	—		—		
" MBISPK	—	—	—		—	50.0	
RF71 A	1	—	1.026				
" ADUP	1	—	1.025				
" ASPK	1	—	1.025				
" MBI	—	—	—				
" MBISPK	—	—	—				
RG01 D	2	—	1.040				
" DDUP	2	—	1.039				
" DSPK	2	—	1.038 ^{MH} 1.038 _{7/28/10}				1.038
" E	2	—	1.089				
" MBI	—	—	—				
" MBISPK	—	—	—	50.0			
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>MH 7/28/10</p> </div>							

Chemical/Reagent ID:

HNO₃: MP1926/ISS47 HCl: ISS48 H₂O₂: ISS12 Tube Lot #: 1005282



Corrective Actions Inorganic Analyses

Criteria Flagged: Unacceptable Blank: <input type="checkbox"/> Unacceptable Duplicate: <input type="checkbox"/> Unacceptable Spike: <input checked="" type="checkbox"/> Unacceptable Reference: <input type="checkbox"/>	ARI Job No.: <u>RF71</u> Date of Event: <u>8-6-10</u> Client ID: _____ Method/Element: <u>ICP</u> Prep Code: <u>SWC</u>
Details of Problem/Recommended Corrective Action: <div style="text-align: center; padding: 5px;"> <p>10% R for Sb in spike</p> <p>Post spike OK</p> </div>	
Samples Affected: _____ _____ _____	
Corrective Action Taken: <u>ADON SD</u> _____ _____ _____ _____ _____	

Analyst Initials: H
Date: 8-6-10

Supervisor: [Signature]
Date: 8.9.10

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: RF71



IEC Date: 6-24-10

Analysis Date: 8-6-10

Analyst: ML

LR Date: 6-25-10

Page: 1 of 7

All corrections made by analyst unless otherwise noted.

48-6-10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD0			2747-15
		2			-2
		3			-3
		4			-4
		5			-5
222		ICV 222222			
		STD5			
		ICV			2732-14
		ICB			
		CR1			
		ICSA			
		ICSA ₂			
		ICV1			Ca Al Na 330 Si high
		ICV1			
		STD0			2747-15
		2			-2
		3			-3
		4			-4
		5			-5
		ICV			2732-14
		ICM			
		CR1			
		ICSA			
		ICSA ₂			



IEC Date: _____ Analysis Date: 8-6-10 Analyst: H
LR Date: _____ Page: 2 of 7

All corrections made by analyst unless otherwise noted.

#8610

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		CCV1			AD Na330 Si high
		CCB31			
	✓	RF71 MBI	SUC	Z	Work
	✓	RG11 MBI ↓ A			re 15 (Fe)
		RF71 ADup A			CAF
	✓	Asp Apost			Sb 19% 0.016 mL Sk000 0.008 mL ICPSPK
	✓	↓ MBI spl			Sb
SUC	✓	RG11 MBI spl ↓ MBI SPD			
		CCV2			Al or Na33 Si high
		CCB32			
		STD2 ↓ 5			
		CCV3			
		CCB33			
		RG30 MBI	TWC		
		↓ F			
		↓ G			
		↓ H			
		↓ ADup			✓
		↓ A			



IEC Date: _____ Analysis Date: 8-6-10 Analyst: HA
LR Date: _____ Page: 5 of 7

All corrections made by analyst unless otherwise noted.

MS-6-10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG 30 Aspik	TWE		
		MBispl	↓		
		CCV4			See high
		CCB4			
		RF71 MB1	Swc	2	
		RG11 MB1		↓	
		↓ A		5	
		RF71 ADup		2	
		↓ A			
		Aspl			So low%R CAR
222		Aspl			not soaked
		↓ MBispl		↓	
		RG11 MBispl		↓	
Swc		↓ MBISPD	↓	↓	
		CCV5			
		CCB5			
	✓	RG84 D	Swc	10	Out
		↓ G		↓	
		↓ H		2	
		↓ I			
		↓ J		↓	
		↓ K		↓	
		↓ ADup		20	
		↓ Dil	↓		

[Handwritten signature]
8/9/10

Metals Data Review Checklist

Method: ICP-MS GFA CVA

Analysis Date: 8-6-10

	Analyst <i>AB-9</i>	Peer <i>BW84</i>	Comment
<i>OPT II</i>			
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	<i>See log</i>
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	<i>see log</i>
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	✓	✓	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	<i>A.W. RG83, RG30 CAF RG84, RG71</i>

=====
Analysis Begun

Start Time: 8/6/2010 9:16:14 AM
Logged In Analyst: metals
Spectrometer Model: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 8/6/2010 7:12:02 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0806.sif
Batch ID:
Results Data Set: I2100806
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: Calib Blank 1

Autosampler Location: 1
Date Collected: 8/6/2010 9:16:15 AM
Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte Back Pressure Flow
All 199.0 kPa 0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1901694.7	13813.30	0.73%	100.0	%
ScR 361.383	292682.5	2628.77	0.90%	100.0	%
Ag 328.068†	-308.7	46.44	15.04%	[0.00]	mg/L
Al 308.215†	-39.4	3.75	9.51%	[0.00]	mg/L
As 188.979†	-17.3	2.85	16.52%	[0.00]	mg/L
B 249.677†	-26.3	6.28	23.88%	[0.00]	mg/L
Ba 233.527†	39.3	0.90	2.29%	[0.00]	mg/L
Be 313.042†	1086.5	19.65	1.81%	[0.00]	mg/L
Ca 317.933†	96.9	28.75	29.67%	[0.00]	mg/L
Cd 228.802†	72.2	4.48	6.21%	[0.00]	mg/L
Co 228.616†	-82.3	3.19	3.87%	[0.00]	mg/L
Cr 267.716†	-78.5	2.38	3.03%	[0.00]	mg/L
Cu 324.752†	8508.7	51.87	0.61%	[0.00]	mg/L
Fe 273.955†	10.9	1.16	10.59%	[0.00]	mg/L
K 766.490†	-74.4	43.61	58.59%	[0.00]	mg/L
Mg 279.077†	-70.9	3.88	5.47%	[0.00]	mg/L
Mn 257.610†	46.4	5.19	11.20%	[0.00]	mg/L
Mo 202.031†	100.3	2.47	2.47%	[0.00]	mg/L
Na 589.592†	-331.8	17.52	5.28%	[0.00]	mg/L
Na 330.237†	-77.2	1.59	2.06%	[0.00]	mg/L
Ni 231.604†	-8.0	1.89	23.68%	[0.00]	mg/L
Pb 220.353†	-73.9	7.42	10.04%	[0.00]	mg/L
Sb 206.836†	98.8	7.15	7.23%	[0.00]	mg/L
Se 196.026†	-65.3	0.71	1.08%	[0.00]	mg/L
Si 288.158†	76.3	1.82	2.38%	[0.00]	mg/L
Sn 189.927†	-10.4	0.83	7.91%	[0.00]	mg/L
Sr 421.552†	262.0	8.24	3.14%	[0.00]	mg/L
Ti 334.903†	-64.7	3.33	5.15%	[0.00]	mg/L
Tl 190.801†	-39.1	2.89	7.40%	[0.00]	mg/L
V 292.402†	307.8	23.97	7.79%	[0.00]	mg/L
Zn 206.200†	2.5	0.28	11.40%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/6/2010 9:20:26 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1939918.3	5780.58	0.30%	102.0	%
ScR 361.383	295499.5	2573.48	0.87%	101.0	%
Ba 233.527†	30826.9	202.74	0.66%	[10]	mg/L
Cd 228.802†	210506.4	1462.86	0.69%	[10]	mg/L
Co 228.616†	295454.6	1388.64	0.47%	[10]	mg/L
Cr 267.716†	47137.9	301.75	0.64%	[10]	mg/L
Cu 324.752†	2771035.9	2210.85	0.08%	[10]	mg/L
Mn 257.610†	293173.6	1742.54	0.59%	[10]	mg/L
V 292.402†	963014.9	2487.89	0.26%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/6/2010 9:22:22 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1911947.0	9470.44	0.50%	100.5	%
ScR 361.383	287119.4	1408.49	0.49%	98.10	%
Ag 328.068†	173230.5	724.62	0.42%	[1.0]	mg/L
As 188.979†	13799.9	59.29	0.43%	[10]	mg/L
B 249.677†	33101.0	220.79	0.67%	[10]	mg/L
Be 313.042†	2747545.2	12271.89	0.45%	[5.0]	mg/L
Na 589.592†	593348.7	1683.23	0.28%	[50]	mg/L
Ni 231.604†	16190.4	108.29	0.67%	[10]	mg/L
Pb 220.353†	68969.7	302.79	0.44%	[10]	mg/L
Se 196.026†	11905.4	55.38	0.47%	[10]	mg/L
Sr 421.552†	3161764.0	21881.79	0.69%	[5]	mg/L
Tl 190.801†	17199.8	109.97	0.64%	[10]	mg/L
Zn 206.200†	6199.9	43.31	0.70%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/6/2010 9:24:51 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1931680.4	8059.19	0.42%	101.6	%
ScR 361.383	294713.8	1276.62	0.43%	100.7	%
Mo 202.031†	171903.3	1189.02	0.69%	[10]	mg/L
Sb 206.836†	26845.3	141.08	0.53%	[10]	mg/L
Si 288.158†	14767.8	22.92	0.16%	[10]	mg/L
Sn 189.927†	36766.5	241.76	0.66%	[10]	mg/L
Ti 334.903†	219593.7	120.79	0.06%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 8/6/2010 9:27:01 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1825905.4	26915.81	1.47%	96.01	%
ScR 361.383	290148.4	1529.84	0.53%	99.13	%
Al 308.215†	37889.0	50.64	0.13%	[30]	mg/L
Ca 317.933†	431183.3	1568.55	0.36%	[30]	mg/L
Fe 273.955†	113290.3	543.90	0.48%	[100]	mg/L
K 766.490†	143026.9	1263.39	0.88%	[100]	mg/L
Mg 279.077†	27720.9	121.41	0.44%	[30]	mg/L
Na 330.237†	2893.7	17.63	0.61%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	173200	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1263	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1380	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3310	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3083	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	549500	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	14370	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	21050	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	29550	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	4714	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	277100	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1133	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1430	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	924.0	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	29320	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	17190	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	11870	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	28.94	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1619	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	6897	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2685	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1191	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1477	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3677	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	632400	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	21960	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1720	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	96300	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	620.0	0.00000	1.000000	

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Analysis Begun

Start Time: 8/6/2010 9:29:53 AM

Plasma On Time: 8/6/2010 7:12:02 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0806.sif

Batch ID:

Results Data Set: I2100806

Results Library: C:\pe\metals\Results\Results.mdb

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 Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/6/2010 9:29:54 AM

Analyst: ALA

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1919699.5	100.9 %	0.51			0.50%
ScR 361.383	289156.1	98.80 %	0.716			0.72%
Ag 328.068†	179266.0	1.035 mg/L	0.0063	1.035 mg/L	0.0063	0.61%
Al 308.215†	2684.1	2.093 mg/L	0.0187	2.093 mg/L	0.0187	0.90%
As 188.979†	2776.4	2.029 mg/L	0.0088	2.029 mg/L	0.0088	0.44%
B 249.677†	3311.0	0.9985 mg/L	0.00654	0.9985 mg/L	0.00654	0.65%
Ba 233.527†	3204.3	1.039 mg/L	0.0101	1.039 mg/L	0.0101	0.97%
Be 313.042†	541467.3	0.9848 mg/L	0.00710	0.9848 mg/L	0.00710	0.72%
Ca 317.933†	30473.5	2.120 mg/L	0.0086	2.120 mg/L	0.0086	0.41%
Cd 228.802†	22001.2	1.039 mg/L	0.0041	1.039 mg/L	0.0041	0.39%
Co 228.616†	29893.8	1.010 mg/L	0.0055	1.010 mg/L	0.0055	0.54%
Cr 267.716†	4956.9	1.051 mg/L	0.0069	1.051 mg/L	0.0069	0.66%
Cu 324.752†	287003.5	1.035 mg/L	0.0065	1.035 mg/L	0.0065	0.62%
Fe 273.955†	2321.6	2.044 mg/L	0.0147	2.044 mg/L	0.0147	0.72%
K 766.490†	29239.7	20.44 mg/L	0.121	20.44 mg/L	0.121	0.59%
Mg 279.077†	1918.3	2.081 mg/L	0.0173	2.081 mg/L	0.0173	0.83%
Mn 257.610†	29614.8	1.011 mg/L	0.0059	1.011 mg/L	0.0059	0.58%
Mo 202.031†	17281.2	1.005 mg/L	0.0052	1.005 mg/L	0.0052	0.52%
Na 589.592†	599623.4	50.53 mg/L	0.353	50.53 mg/L	0.353	0.70%
Na 330.237†	1487.3	51.46 mg/L	0.299	51.46 mg/L	0.299	0.58%
Ni 231.604†	1634.8	1.011 mg/L	0.0049	1.011 mg/L	0.0049	0.48%
Pb 220.353†	13915.1	2.019 mg/L	0.0063	2.019 mg/L	0.0063	0.31%
Sb 206.836†	5574.8	2.082 mg/L	0.0126	2.082 mg/L	0.0126	0.60%
Se 196.026†	2415.9	2.029 mg/L	0.0114	2.029 mg/L	0.0114	0.56%
Si 288.158†	3154.0	2.139 mg/L	0.0116	2.139 mg/L	0.0116	0.54%
Sn 189.927†	3697.2	1.007 mg/L	0.0062	1.007 mg/L	0.0062	0.62%
Sr 421.552†	638679.4	1.010 mg/L	0.0071	1.010 mg/L	0.0071	0.70%
Ti 334.903†	22384.4	1.018 mg/L	0.0080	1.018 mg/L	0.0080	0.78%
Tl 190.801†	3467.5	2.016 mg/L	0.0117	2.016 mg/L	0.0117	0.58%
V 292.402†	97120.9	1.013 mg/L	0.0061	1.013 mg/L	0.0061	0.60%
Zn 206.200†	615.0	0.9915 mg/L	0.00774	0.9915 mg/L	0.00774	0.78%

Sequence No.: 2
 Sample ID: CB
 Analyst: AKA
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/6/2010 9:34:07 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 198.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1920093.2	101.0	%	0.51				0.51%
ScR 361.383	274885.6	93.92	%	0.273				0.29%
Ag 328.068†	-14.0	-0.00008	mg/L	0.000094	-0.00008	mg/L	0.000094	116.43%
Al 308.215†	-7.9	-0.00624	mg/L	0.005167	-0.00624	mg/L	0.005167	82.85%
As 188.979†	4.3	0.00311	mg/L	0.001713	0.00311	mg/L	0.001713	55.04%
B 249.677†	4.2	0.00126	mg/L	0.002518	0.00126	mg/L	0.002518	200.54%
Ba 233.527†	3.3	0.00108	mg/L	0.000847	0.00108	mg/L	0.000847	78.37%
Be 313.042†	55.7	0.00010	mg/L	0.000049	0.00010	mg/L	0.000049	48.29%
Ca 317.933†	10.8	0.00075	mg/L	0.002432	0.00075	mg/L	0.002432	323.25%
Cd 228.802†	-1.7	-0.00009	mg/L	0.000165	-0.00009	mg/L	0.000165	182.43%
Co 228.616†	2.3	0.00008	mg/L	0.000220	0.00008	mg/L	0.000220	285.33%
Cr 267.716†	-0.7	-0.00015	mg/L	0.001140	-0.00015	mg/L	0.001140	738.40%
Cu 324.752†	-52.5	-0.00019	mg/L	0.000361	-0.00019	mg/L	0.000361	190.29%
Fe 273.955†	-1.7	-0.00152	mg/L	0.002196	-0.00152	mg/L	0.002196	144.43%
K 766.490†	45.6	0.03187	mg/L	0.020405	0.03187	mg/L	0.020405	64.02%
Mg 279.077†	-2.9	-0.00312	mg/L	0.002210	-0.00312	mg/L	0.002210	70.88%
Mn 257.610†	4.9	0.00017	mg/L	0.000050	0.00017	mg/L	0.000050	30.23%
Mo 202.031†	0.2	0.00001	mg/L	0.000065	0.00001	mg/L	0.000065	596.14%
Na 589.592†	64.1	0.00540	mg/L	0.003285	0.00540	mg/L	0.003285	60.80%
Na 330.237†	-5.1	-0.1763	mg/L	0.13025	-0.1763	mg/L	0.13025	73.89%
Ni 231.604†	6.9	0.00428	mg/L	0.001189	0.00428	mg/L	0.001189	27.78%
Pb 220.353†	0.1	0.00002	mg/L	0.000213	0.00002	mg/L	0.000213	>999.9%
Sb 206.836†	8.1	0.00303	mg/L	0.002451	0.00303	mg/L	0.002451	80.87%
Se 196.026†	5.0	0.00418	mg/L	0.003761	0.00418	mg/L	0.003761	89.91%
Si 288.158†	12.0	0.00810	mg/L	0.003591	0.00810	mg/L	0.003591	44.34%
Sn 189.927†	1.5	0.00042	mg/L	0.000959	0.00042	mg/L	0.000959	227.28%
Sr 421.552†	49.9	0.00008	mg/L	0.000039	0.00008	mg/L	0.000039	48.94%
Ti 334.903†	-0.2	-0.00001	mg/L	0.001087	-0.00001	mg/L	0.001087	>999.9%
Tl 190.801†	1.6	0.00094	mg/L	0.000489	0.00094	mg/L	0.000489	51.78%
V 292.402†	-6.1	-0.00006	mg/L	0.000081	-0.00006	mg/L	0.000081	127.96%
Zn 206.200†	-0.0	-0.00005	mg/L	0.002159	-0.00005	mg/L	0.002159	>999.9%

Sequence No.: 3
 Sample ID: CRI
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 301
 Date Collected: 8/6/2010 9:38:03 AM
 Data Type: Original

Nebulizer Parameters: CRI

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	1935537.6	101.8	%	0.98			0.96%
ScR 361.383	291639.5	99.64	%	0.946			0.95%
Ag 328.068†	545.3	0.00315	mg/L	0.000288	0.00315 mg/L	0.000288	9.16%
Al 308.215†	55.1	0.04354	mg/L	0.004078	0.04354 mg/L	0.004078	9.36%
As 188.979†	69.9	0.05076	mg/L	0.001608	0.05076 mg/L	0.001608	3.17%
B 249.677†	65.0	0.01962	mg/L	0.002319	0.01962 mg/L	0.002319	11.82%
Ba 233.527†	11.3	0.00365	mg/L	0.000734	0.00365 mg/L	0.000734	20.13%
Be 313.042†	504.7	0.00092	mg/L	0.000060	0.00092 mg/L	0.000060	6.60%
Ca 317.933†	711.0	0.04947	mg/L	0.000311	0.04947 mg/L	0.000311	0.63%
Cd 228.802†	46.6	0.00205	mg/L	0.000118	0.00205 mg/L	0.000118	5.77%
Co 228.616†	90.9	0.00307	mg/L	0.000097	0.00307 mg/L	0.000097	3.17%
Cr 267.716†	28.1	0.00596	mg/L	0.000697	0.00596 mg/L	0.000697	11.69%
Cu 324.752†	395.2	0.00142	mg/L	0.000242	0.00142 mg/L	0.000242	16.97%
Fe 273.955†	58.0	0.05116	mg/L	0.002333	0.05116 mg/L	0.002333	4.56%
K 766.490†	704.8	0.4927	mg/L	0.02666	0.4927 mg/L	0.02666	5.41%
Mg 279.077†	46.6	0.05047	mg/L	0.002385	0.05047 mg/L	0.002385	4.73%
Mn 257.610†	22.2	0.00076	mg/L	0.000068	0.00076 mg/L	0.000068	8.90%
Mo 202.031†	81.7	0.00475	mg/L	0.000497	0.00475 mg/L	0.000497	10.45%
Na 589.592†	5919.4	0.4988	mg/L	0.00306	0.4988 mg/L	0.00306	0.61%
Na 330.237†	18.0	0.6204	mg/L	0.45229	0.6204 mg/L	0.45229	72.90%
Ni 231.604†	20.8	0.01290	mg/L	0.002918	0.01290 mg/L	0.002918	22.63%
Pb 220.353†	134.9	0.01958	mg/L	0.001270	0.01958 mg/L	0.001270	6.49%
Sb 206.836†	141.2	0.05269	mg/L	0.001899	0.05269 mg/L	0.001899	3.60%
Se 196.026†	64.5	0.05414	mg/L	0.002952	0.05414 mg/L	0.002952	5.45%
Si 288.158†	90.6	0.06138	mg/L	0.004309	0.06138 mg/L	0.004309	7.02%
Sn 189.927†	37.4	0.01022	mg/L	0.000408	0.01022 mg/L	0.000408	4.00%
Sr 421.552†	620.3	0.00098	mg/L	0.000073	0.00098 mg/L	0.000073	7.49%
Ti 334.903†	121.7	0.00553	mg/L	0.001320	0.00553 mg/L	0.001320	23.87%
Tl 190.801†	87.6	0.05097	mg/L	0.000232	0.05097 mg/L	0.000232	0.45%
V 292.402†	282.6	0.00295	mg/L	0.000311	0.00295 mg/L	0.000311	10.54%
Zn 206.200†	5.2	0.00834	mg/L	0.002054	0.00834 mg/L	0.002054	24.63%

Sequence No.: 4
Sample ID: ICSA
Analyst: ALA
Dilution: 1X

Autosampler Location: 302
Date Collected: 8/6/2010 9:42:14 AM
Data Type: Original

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
All 199.0 kPa 0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1870069.2	98.34	%	0.875			0.89%
ScR 361.383	290138.9	99.13	%	0.616			0.62%
Ag 328.068†	-177.5	-0.00102	mg/L	0.000239	-0.00102 mg/L	0.000239	23.40%
Al 308.215†	255190.8	202.1	mg/L	0.53	202.1 mg/L	0.53	0.26%
As 188.979†	16.2	0.00879	mg/L	0.000890	0.00879 mg/L	0.000890	10.12%
B 249.677†	-19.6	-0.00591	mg/L	0.001857	-0.00591 mg/L	0.001857	31.42%
Ba 233.527†	63.3	0.00156	mg/L	0.000492	0.00156 mg/L	0.000492	31.62%
Be 313.042†	-1.6	-0.00002	mg/L	0.000026	-0.00002 mg/L	0.000026	168.35%
Ca 317.933†	1446765.9	100.7	mg/L	0.55	100.7 mg/L	0.55	0.54%
Cd 228.802†	44.9	0.00210	mg/L	0.000185	0.00210 mg/L	0.000185	8.84%
Co 228.616†	56.2	-0.00057	mg/L	0.000162	-0.00057 mg/L	0.000162	28.51%
Cr 267.716†	34.3	0.00159	mg/L	0.001212	0.00159 mg/L	0.001212	76.39%
Cu 324.752†	-3687.1	-0.00147	mg/L	0.000391	-0.00147 mg/L	0.000391	26.54%
Fe 273.955†	223019.7	196.9	mg/L	0.87	196.9 mg/L	0.87	0.44%
K 766.490†	19.0	0.01328	mg/L	0.011046	0.01328 mg/L	0.011046	83.16%
Mg 279.077†	92019.1	99.47	mg/L	0.479	99.47 mg/L	0.479	0.48%
Mn 257.610†	46.8	0.00101	mg/L	0.000283	0.00101 mg/L	0.000283	28.14%
Mo 202.031†	105.1	0.00437	mg/L	0.000422	0.00437 mg/L	0.000422	9.65%
Na 589.592†	98.0	0.00826	mg/L	0.000669	0.00826 mg/L	0.000669	8.10%
Na 330.237†	1.3	0.6518	mg/L	0.13949	0.6518 mg/L	0.13949	21.40%
Ni 231.604†	3.5	0.00220	mg/L	0.004025	0.00220 mg/L	0.004025	183.18%
Pb 220.353†	-205.9	-0.00938	mg/L	0.000804	-0.00938 mg/L	0.000804	8.57%
Sb 206.836†	69.2	0.02563	mg/L	0.002142	0.02563 mg/L	0.002142	8.36%
Se 196.026†	62.5	0.04568	mg/L	0.005316	0.04568 mg/L	0.005316	11.64%
Si 288.158†	-26.6	-0.01798	mg/L	0.011587	-0.01798 mg/L	0.011587	64.44%
Sn 189.927†	-55.2	-0.01033	mg/L	0.001424	-0.01033 mg/L	0.001424	13.79%
Sr 421.552†	2288.6	0.00362	mg/L <i>Cont</i>	0.000038	0.00362 mg/L	0.000038	1.04%
Ti 334.903†	161.3	0.00106	mg/L	0.000544	0.00106 mg/L	0.000544	51.23%
Tl 190.801†	-33.4	0.01017	mg/L	0.002501	0.01017 mg/L	0.002501	24.59%
V 292.402†	2275.7	0.00259	mg/L	0.000403	0.00259 mg/L	0.000403	15.58%
Zn 206.200†	-2.6	-0.00982	mg/L	0.002657	-0.00982 mg/L	0.002657	27.05%

Sequence No.: 5
 Sample ID: ICSAB
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 303
 Date Collected: 8/6/2010 9:46:25 AM
 Data Type: Original

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1886771.3		99.22 %	0.973				0.98%
ScR 361.383	287580.3		98.26 %	0.884				0.90%
Ag 328.068†	177635.6		1.025 mg/L	0.0147	1.025 mg/L	0.0147		1.43%
Al 308.215†	260071.3		205.9 mg/L	0.41	205.9 mg/L	0.41		0.20%
As 188.979†	1409.0		1.018 mg/L	0.0100	1.018 mg/L	0.0100		0.98%
B 249.677†	-24.0	-0.00970	mg/L	0.001187	-0.00970 mg/L	0.001187		12.24%
Ba 233.527†	3214.8		1.023 mg/L	0.0051	1.023 mg/L	0.0051		0.50%
Be 313.042†	551747.9		1.004 mg/L	0.0021	1.004 mg/L	0.0021		0.21%
Ca 317.933†	1468892.5		102.2 mg/L	0.21	102.2 mg/L	0.21		0.21%
Cd 228.802†	22262.2		1.055 mg/L	0.0129	1.055 mg/L	0.0129		1.22%
Co 228.616†	28742.1	0.9699	mg/L	0.01244	0.9699 mg/L	0.01244		1.28%
Cr 267.716†	4925.8		1.039 mg/L	0.0048	1.039 mg/L	0.0048		0.46%
Cu 324.752†	285018.5		1.041 mg/L	0.0133	1.041 mg/L	0.0133		1.28%
Fe 273.955†	226418.6		199.9 mg/L	0.16	199.9 mg/L	0.16		0.08%
K 766.490†	-70.1	-0.04899	mg/L	0.050312	-0.04899 mg/L	0.050312		102.70%
Mg 279.077†	93245.9		100.8 mg/L	0.43	100.8 mg/L	0.43		0.43%
Mn 257.610†	28549.4		0.9734 mg/L	0.00363	0.9734 mg/L	0.00363		0.37%
Mo 202.031†	98.3	0.00395	mg/L	0.000404	0.00395 mg/L	0.000404		10.24%
Na 589.592†	254.2	0.02142	mg/L	0.004104	0.02142 mg/L	0.004104		19.16%
Na 330.237†	-2.8	0.2889	mg/L	0.11678	0.2889 mg/L	0.11678		40.43%
Ni 231.604†	1557.4	0.9627	mg/L	0.00535	0.9627 mg/L	0.00535		0.56%
Pb 220.353†	6466.6	0.9592	mg/L	0.01034	0.9592 mg/L	0.01034		1.08%
Sb 206.836†	2835.2	1.048	mg/L	0.0135	1.048 mg/L	0.0135		1.29%
Se 196.026†	1277.5	1.066	mg/L	0.0061	1.066 mg/L	0.0061		0.57%
Si 288.158†	-35.4	-0.02024	mg/L	0.003071	-0.02024 mg/L	0.003071		15.17%
Sn 189.927†	-55.7	-0.00974	mg/L	0.002688	-0.00974 mg/L	0.002688		27.60%
Sr 421.552†	2354.3	0.00372	mg/L	0.000042	0.00372 mg/L	0.000042		1.12%
Ti 334.903†	179.1	0.00159	mg/L	0.000359	0.00159 mg/L	0.000359		22.65%
Tl 190.801†	1629.1	0.9740	mg/L	0.00881	0.9740 mg/L	0.00881		0.90%
V 292.402†	96755.5	0.9878	mg/L	0.01033	0.9878 mg/L	0.01033		1.05%
Zn 206.200†	593.5	0.9513	mg/L	0.00369	0.9513 mg/L	0.00369		0.39%

Sequence No.: 6
Sample ID: CV
Analyst: ALA
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/6/2010 9:50:08 AM
Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 199.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1905842.6	100.2 %	0.81			0.81%
ScR 361.383	275838.7	94.25 %	0.469			0.50%
Ag 328.068†	181213.7	1.046 mg/L	0.0028	1.046 mg/L	0.0028	0.26%
Al 308.215†	2841.4	2.217 mg/L	0.0050	2.217 mg/L	0.0050	0.23%
As 188.979†	2829.6	2.068 mg/L	0.0184	2.068 mg/L	0.0184	0.89%
B 249.677†	3461.7	1.044 mg/L	0.0023	1.044 mg/L	0.0023	0.22%
Ba 233.527†	3351.1	1.086 mg/L	0.0029	1.086 mg/L	0.0029	0.26%
Be 313.042†	562156.0	1.022 mg/L	0.0081	1.022 mg/L	0.0081	0.79%
Ca 317.933†	31369.4	2.183 mg/L	0.0117	2.183 mg/L	0.0117	0.54%
Cd 228.802†	22235.5	1.050 mg/L	0.0092	1.050 mg/L	0.0092	0.87%
Co 228.616†	30212.5	1.021 mg/L	0.0072	1.021 mg/L	0.0072	0.71%
Cr 267.716†	5185.8	1.100 mg/L	0.0030	1.100 mg/L	0.0030	0.28%
Cu 324.752†	289540.6	1.044 mg/L	0.0080	1.044 mg/L	0.0080	0.77%
Fe 273.955†	2442.1	2.150 mg/L	0.0013	2.150 mg/L	0.0013	0.06%
K 766.490†	30647.7	21.43 mg/L	0.057	21.43 mg/L	0.057	0.26%
Mg 279.077†	1999.9	2.169 mg/L	0.0027	2.169 mg/L	0.0027	0.12%
Mn 257.610†	30572.0	1.043 mg/L	0.0066	1.043 mg/L	0.0066	0.63%
Mo 202.031†	17554.2	1.021 mg/L	0.0089	1.021 mg/L	0.0089	0.87%
Na 589.592†	624394.6	52.62 mg/L	0.310	52.62 mg/L	0.310	0.59%
Na 330.237†	1594.6	55.16 mg/L	0.237	55.16 mg/L	0.237	0.43%
Ni 231.604†	1705.1	1.055 mg/L	0.0010	1.055 mg/L	0.0010	0.10%
Pb 220.353†	14179.1	2.057 mg/L	0.0192	2.057 mg/L	0.0192	0.93%
Sb 206.836†	5666.5	2.116 mg/L	0.0213	2.116 mg/L	0.0213	1.01%
Se 196.026†	2466.0	2.071 mg/L	0.0178	2.071 mg/L	0.0178	0.86%
Si 288.158†	3326.4	2.256 mg/L	0.0092	2.256 mg/L	0.0092	0.41%
Sn 189.927†	3778.0	1.029 mg/L	0.0124	1.029 mg/L	0.0124	1.20%
Sr 421.552†	666444.3	1.054 mg/L	0.0046	1.054 mg/L	0.0046	0.44%
Ti 334.903†	23150.0	1.053 mg/L	0.0056	1.053 mg/L	0.0056	0.53%
Tl 190.801†	3525.8	2.050 mg/L	0.0213	2.050 mg/L	0.0213	1.04%
V 292.402†	98599.5	1.029 mg/L	0.0094	1.029 mg/L	0.0094	0.91%
Zn 206.200†	645.4	1.041 mg/L	0.0040	1.041 mg/L	0.0040	0.38%

Sequence No.: 7
 Sample ID: CB
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/6/2010 9:54:21 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1922942.6	101.1	%	0.99			0.98%
ScR 361.383	274349.7	93.74	%	0.319			0.34%
Ag 328.068†	-26.6	-0.00015	mg/L	0.000267	-0.00015 mg/L	0.000267	174.16%
Al 308.215†	0.5	0.00043	mg/L	0.002215	0.00043 mg/L	0.002215	517.86%
As 188.979†	-4.5	-0.00329	mg/L	0.000810	-0.00329 mg/L	0.000810	24.66%
B 249.677†	1.4	0.00041	mg/L	0.002350	0.00041 mg/L	0.002350	573.64%
Ba 233.527†	3.4	0.00111	mg/L	0.001190	0.00111 mg/L	0.001190	107.49%
Be 313.042†	96.9	0.00018	mg/L	0.000056	0.00018 mg/L	0.000056	31.61%
Ca 317.933†	22.8	0.00158	mg/L	0.000780	0.00158 mg/L	0.000780	49.26%
Cd 228.802†	-1.4	-0.00005	mg/L	0.000254	-0.00005 mg/L	0.000254	467.92%
Co 228.616†	-0.0	0.00000	mg/L	0.000039	0.00000 mg/L	0.000039	>999.9%
Cr 267.716†	-0.1	-0.00003	mg/L	0.000974	-0.00003 mg/L	0.000974	>999.9%
Cu 324.752†	7.9	0.00003	mg/L	0.000235	0.00003 mg/L	0.000235	821.65%
Fe 273.955†	1.2	0.00110	mg/L	0.001478	0.00110 mg/L	0.001478	134.07%
K 766.490†	60.9	0.04258	mg/L	0.027136	0.04258 mg/L	0.027136	63.72%
Mg 279.077†	-0.7	-0.00076	mg/L	0.012151	-0.00076 mg/L	0.012151	>999.9%
Mn 257.610†	5.6	0.00019	mg/L	0.000118	0.00019 mg/L	0.000118	61.67%
Mo 202.031†	4.0	0.00024	mg/L	0.000210	0.00024 mg/L	0.000210	89.14%
Na 589.592†	22.6	0.00191	mg/L	0.003293	0.00191 mg/L	0.003293	172.82%
Na 330.237†	-4.2	-0.1459	mg/L	0.11158	-0.1459 mg/L	0.11158	76.49%
Ni 231.604†	4.6	0.00282	mg/L	0.001610	0.00282 mg/L	0.001610	57.10%
Pb 220.353†	-4.6	-0.00067	mg/L	0.000465	-0.00067 mg/L	0.000465	69.53%
Sb 206.836†	3.1	0.00116	mg/L	0.001963	0.00116 mg/L	0.001963	169.48%
Se 196.026†	4.2	0.00351	mg/L	0.002781	0.00351 mg/L	0.002781	79.16%
Si 288.158†	9.7	0.00654	mg/L	0.004024	0.00654 mg/L	0.004024	61.54%
Sn 189.927†	3.9	0.00107	mg/L	0.001045	0.00107 mg/L	0.001045	97.60%
Sr 421.552†	66.0	0.00010	mg/L	0.000049	0.00010 mg/L	0.000049	46.84%
Ti 334.903†	-8.3	-0.00038	mg/L	0.000499	-0.00038 mg/L	0.000499	131.37%
Tl 190.801†	3.7	0.00212	mg/L	0.001605	0.00212 mg/L	0.001605	75.55%
V 292.402†	-8.3	-0.00009	mg/L	0.000241	-0.00009 mg/L	0.000241	280.50%
Zn 206.200†	0.4	0.00064	mg/L	0.002043	0.00064 mg/L	0.002043	319.40%

Sequence No.: 8
 Sample ID: RF71 MB1 SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 304
 Date Collected: 8/6/2010 9:58:17 AM
 Data Type: Original

Del

Nebulizer Parameters: RF71 MB1 SWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RF71 MB1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1948105.1	102.4	%	0.75				0.73%
ScR 361.383	292462.1	99.92	%	2.909				2.91%
Ag 328.068†	-18.5	-0.00011	mg/L	0.000189	-0.00021	mg/L	0.000378	176.95%
Al 308.215†	4.1	0.00328	mg/L	0.006860	0.00656	mg/L	0.013719	209.18%
As 188.979†	-0.6	-0.00045	mg/L	0.001666	-0.00089	mg/L	0.003333	373.88%
B 249.677†	-2.7	-0.00082	mg/L	0.001528	-0.00164	mg/L	0.003056	186.90%
Ba 233.527†	0.7	0.00022	mg/L	0.000692	0.00044	mg/L	0.001383	314.76%
Be 313.042†	-22.8	-0.00004	mg/L	0.000056	-0.00008	mg/L	0.000113	135.97%
Ca 317.933†	134.8	0.00938	mg/L	0.001124	0.01876	mg/L	0.002247	11.98%
Cd 228.802†	-2.6	-0.00012	mg/L	0.000132	-0.00024	mg/L	0.000264	109.28%
Co 228.616†	1.5	0.00005	mg/L	0.000122	0.00010	mg/L	0.000243	239.44%
Cr 267.716†	1.2	0.00026	mg/L	0.001019	0.00052	mg/L	0.002037	390.40%
Cu 324.752†	-55.0	-0.00020	mg/L	0.000161	-0.00040	mg/L	0.000322	81.11%
Fe 273.955†	0.2	0.00014	mg/L	0.003707	0.00028	mg/L	0.007414	>999.9%
K 766.490†	-19.8	-0.01383	mg/L	0.011765	-0.02765	mg/L	0.023531	85.09%
Mg 279.077†	5.2	0.00559	mg/L	0.009401	0.01118	mg/L	0.018802	168.23%
Mn 257.610†	-5.9	-0.00020	mg/L	0.000095	-0.00040	mg/L	0.000191	47.70%
Mo 202.031†	-6.7	-0.00039	mg/L	0.000198	-0.00078	mg/L	0.000396	51.03%
Na 589.592†	29.4	0.00248	mg/L	0.003401	0.00496	mg/L	0.006802	137.12%
Na 330.237†	6.2	0.2155	mg/L	0.31297	0.4310	mg/L	0.62593	145.22%
Ni 231.604†	4.5	0.00278	mg/L	0.001182	0.00556	mg/L	0.002364	42.52%
Pb 220.353†	2.9	0.00042	mg/L	0.001131	0.00084	mg/L	0.002261	267.74%
Sb 206.836†	-0.9	-0.00033	mg/L	0.000110	-0.00066	mg/L	0.000221	33.54%
Se 196.026†	10.4	0.00870	mg/L	0.005925	0.01739	mg/L	0.011849	68.13%
Si 288.158†	-1.6	-0.00106	mg/L	0.003415	-0.00212	mg/L	0.006831	322.16%
Sn 189.927†	2.8	0.00077	mg/L	0.000558	0.00154	mg/L	0.001115	72.53%
Sr 421.552†	-16.8	-0.00003	mg/L	0.000064	-0.00005	mg/L	0.000129	241.27%
Ti 334.903†	2.0	0.00009	mg/L	0.000719	0.00018	mg/L	0.001437	809.25%
Tl 190.801†	5.9	0.00342	mg/L	0.002256	0.00685	mg/L	0.004513	65.89%
V 292.402†	-5.2	-0.00005	mg/L	0.000174	-0.00011	mg/L	0.000347	325.74%
Zn 206.200†	0.4	0.00057	mg/L	0.000343	0.00115	mg/L	0.000686	59.87%

Sequence No.: 9

Sample ID: RG11 MB1 SWC

Analyst: ALA

Dilution: 2X

Autosampler Location: 305

Date Collected: 8/6/2010 10:02:29 AM

Data Type: Original

DM

Nebulizer Parameters: RG11 MB1 SWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG11 MB1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1950662.5	102.6	%	1.04				1.01%
ScR 361.383	295484.0	101.0	%	2.92				2.89%
Ag 328.068†	2.7	0.00002	mg/L	0.000312	0.00003	mg/L	0.000624	>999.9%
Al 308.215†	1.2	0.00099	mg/L	0.004016	0.00198	mg/L	0.008033	405.31%
As 188.979†	0.8	0.00062	mg/L	0.002395	0.00124	mg/L	0.004790	387.51%
B 249.677†	-5.1	-0.00155	mg/L	0.001520	-0.00311	mg/L	0.003040	97.87%
Ba 233.527†	0.4	0.00014	mg/L	0.000651	0.00028	mg/L	0.001303	464.67%
Be 313.042†	-46.7	-0.00008	mg/L	0.000075	-0.00017	mg/L	0.000151	88.83%
Ca 317.933†	123.3	0.00858	mg/L	0.001351	0.01715	mg/L	0.002703	15.76%
Cd 228.802†	0.3	0.00002	mg/L	0.000179	0.00003	mg/L	0.000358	>999.9%
Co 228.616†	0.4	0.00001	mg/L	0.000111	0.00002	mg/L	0.000222	>999.9%
Cr 267.716†	6.9	0.00145	mg/L	0.000947	0.00291	mg/L	0.001894	65.11%
Cu 324.752†	-69.1	-0.00025	mg/L	0.000383	-0.00050	mg/L	0.000766	153.45%
Fe 273.955†	-0.6	-0.00055	mg/L	0.001553	-0.00111	mg/L	0.003106	280.09%
K 766.490†	18.1	0.01263	mg/L	0.018316	0.02527	mg/L	0.036632	144.97%
Mg 279.077†	0.2	0.00027	mg/L	0.004795	0.00053	mg/L	0.009591	>999.9%
Mn 257.610†	-1.9	-0.00006	mg/L	0.000070	-0.00013	mg/L	0.000140	110.80%
Mo 202.031†	-5.4	-0.00031	mg/L	0.000297	-0.00063	mg/L	0.000595	95.03%
Na 589.592†	19.5	0.00164	mg/L	0.003087	0.00329	mg/L	0.006173	187.66%
Na 330.237†	0.7	0.02327	mg/L	0.096014	0.04654	mg/L	0.192029	412.64%
Ni 231.604†	4.3	0.00266	mg/L	0.000669	0.00532	mg/L	0.001337	25.13%
Pb 220.353†	-3.1	-0.00045	mg/L	0.000209	-0.00090	mg/L	0.000419	46.48%
Sb 206.836†	1.2	0.00044	mg/L	0.001260	0.00089	mg/L	0.002519	284.26%
Se 196.026†	8.3	0.00697	mg/L	0.001442	0.01394	mg/L	0.002883	20.68%
Si 288.158†	9.0	0.00606	mg/L	0.000946	0.01212	mg/L	0.001891	15.60%
Sn 189.927†	4.2	0.00113	mg/L	0.000314	0.00227	mg/L	0.000628	27.70%
Sr 421.552†	-30.3	-0.00005	mg/L	0.000007	-0.00010	mg/L	0.000013	13.92%
Ti 334.903†	15.3	0.00070	mg/L	0.000369	0.00139	mg/L	0.000738	53.00%
Tl 190.801†	3.1	0.00180	mg/L	0.002141	0.00360	mg/L	0.004281	118.77%
V 292.402†	-19.7	-0.00020	mg/L	0.000018	-0.00040	mg/L	0.000037	9.18%
Zn 206.200†	-0.5	-0.00076	mg/L	0.001164	-0.00151	mg/L	0.002329	153.92%

Sequence No.: 10
 Sample ID: RG11 A SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 306
 Date Collected: 8/6/2010 10:06:39 AM
 Data Type: Original

ER 1/5

Nebulizer Parameters: RG11 A SWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RG11 A SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1969031.6	103.5	%	1.76				1.70%
ScR 361.383	303919.5	103.8	%	1.28				1.23%
Ag 328.068†	336.3	0.00153	mg/L	0.000181	0.00306	mg/L	0.000362	11.84%
Al 308.215†	123001.2	97.36	mg/L	0.383	194.7	mg/L	0.77	0.39%
As 188.979†	-106.1	0.04896	mg/L	0.003118	0.09792	mg/L	0.006236	6.37%
B 249.677†	350.7	0.1060	mg/L	0.00182	0.2120	mg/L	0.00364	1.72%
Ba 233.527†	2351.0	0.7366	mg/L	0.00802	1.473	mg/L	0.0160	1.09%
Be 313.042†	644.4	0.00086	mg/L	0.000027	0.00171	mg/L	0.000054	3.15%
Ca 317.933†	1096563.4	76.29	mg/L	0.844	152.6	mg/L	1.69	1.11%
Cd 228.802†	31.5	0.00682	mg/L	0.000282	0.01364	mg/L	0.000565	4.14%
Co 228.616†	5176.4	0.1577	mg/L	0.00244	0.3155	mg/L	0.00488	1.55%
Cr 267.716†	35038.8	7.437	mg/L	0.0327	14.87	mg/L	0.065	0.44%
Cu 324.752†	3121499.1	11.28	mg/L	0.215	22.56	mg/L	0.429	1.90%
Fe 273.955†	299813.7	264.6	mg/L	1.61	529.3	mg/L	3.23	0.61%
K 766.490†	7627.0	5.333	mg/L	0.0247	10.67	mg/L	0.049	0.46%
Mg 279.077†	48310.0	52.15	mg/L	0.293	104.3	mg/L	0.59	0.56%
Mn 257.610†	103635.1	3.536	mg/L	0.0431	7.071	mg/L	0.0862	1.22%
Mo 202.031†	10609.6	0.6159	mg/L	0.01002	1.232	mg/L	0.0200	1.63%
Na 589.592†	38660.0	3.258	mg/L	0.0275	6.516	mg/L	0.0551	0.85%
Na 330.237†	37.2	3.295	mg/L	0.0890	6.590	mg/L	0.1781	2.70%
Ni 231.604†	12663.5	7.822	mg/L	0.0944	15.64	mg/L	0.189	1.21%
Pb 220.353†	2227.2	0.3214	mg/L	0.00545	0.6428	mg/L	0.01089	1.69%
Sb 206.836†	247.1	0.02749	mg/L	0.002804	0.05499	mg/L	0.005608	10.20%
Se 196.026†	41.4	0.02960	mg/L	0.003400	0.05920	mg/L	0.006799	11.49%
Si 288.158†	3210.6	2.174	mg/L	0.0322	4.348	mg/L	0.0645	1.48%
Sn 189.927†	160.9	0.05080	mg/L	0.001812	0.1016	mg/L	0.00362	3.57%
Sr 421.552†	177813.6	0.2812	mg/L	0.00119	0.5624	mg/L	0.00237	0.42%
Ti 334.903†	165991.7	7.552	mg/L	0.0567	15.10	mg/L	0.113	0.75%
Tl 190.801†	-47.7	0.01394	mg/L	0.004894	0.02787	mg/L	0.009788	35.12%
V 292.402†	43027.6	0.4460	mg/L	0.00749	0.8919	mg/L	0.01498	1.68%
Zn 206.200†	1380.8	2.222	mg/L	0.0235	4.444	mg/L	0.0470	1.06%

Sequence No.: 11
 Sample ID: RF71 ADUP SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 307
 Date Collected: 8/6/2010 10:10:22 AM
 Data Type: Original

Del

Nebulizer Parameters: RF71 ADUP SWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RF71 ADUP SWC

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	1940833.7	102.1	%	0.62				0.61%
ScR 361.383	293686.2	100.3	%	0.78				0.78%
Ag 328.068†	30.1	0.00004	mg/L	0.000273	0.00007	mg/L	0.000546	737.43%
Al 308.215†	146057.3	115.6	mg/L	1.14	231.3	mg/L	2.29	0.99%
As 188.979†	-55.4	0.05587	mg/L	0.001883	0.1117	mg/L	0.00377	3.37%
B 249.677†	239.5	0.07218	mg/L	0.002896	0.1444	mg/L	0.00579	4.01%
Ba 233.527†	996.2	0.3069	mg/L	0.00376	0.6138	mg/L	0.00753	1.23%
Be 313.042†	1030.8	0.00164	mg/L	0.000045	0.00327	mg/L	0.000090	2.76%
Ca 317.933†	432545.3	30.09	mg/L	0.387	60.19	mg/L	0.775	1.29%
Cd 228.802†	84.5	0.00432	mg/L	0.000019	0.00864	mg/L	0.000037	0.43%
Co 228.616†	2329.0	0.06752	mg/L	0.000403	0.1350	mg/L	0.00081	0.60%
Cr 267.716†	1352.6	0.2867	mg/L	0.00368	0.5733	mg/L	0.00737	1.29%
Cu 324.752†	88482.6	0.3283	mg/L	0.00355	0.6566	mg/L	0.00709	1.08%
Fe 273.955†	194488.1	171.7	mg/L	1.98	343.3	mg/L	3.97	1.16%
K 766.490†	13935.7	9.743	mg/L	0.1511	19.49	mg/L	0.302	1.55%
Mg 279.077†	54580.2	58.98	mg/L	0.793	118.0	mg/L	1.59	1.35%
Mn 257.610†	60088.4	2.050	mg/L	0.0294	4.099	mg/L	0.0587	1.43%
Mo 202.031†	186.7	0.01034	mg/L	0.000047	0.02068	mg/L	0.000094	0.45%
Na 589.592†	198397.1	16.72	mg/L	0.207	33.44	mg/L	0.414	1.24%
Na 330.237†	454.7	17.23	mg/L	0.251	34.46	mg/L	0.502	1.46%
Ni 231.604†	447.2	0.2762	mg/L	0.00447	0.5525	mg/L	0.00894	1.62%
Pb 220.353†	925.6	0.1419	mg/L	0.00017	0.2839	mg/L	0.00035	0.12%
Sb 206.836†	23.8	0.01395	mg/L	0.001746	0.02789	mg/L	0.003491	12.52%
Se 196.026†	44.8	0.03559	mg/L	0.001748	0.07118	mg/L	0.003496	4.91%
Si 288.158†	10946.0	7.412	mg/L	0.0669	14.82	mg/L	0.134	0.90%
Sn 189.927†	13.9	0.00763	mg/L	0.000791	0.01526	mg/L	0.001583	10.37%
Sr 421.552†	157880.1	0.2497	mg/L	0.00337	0.4993	mg/L	0.00674	1.35%
Ti 334.903†	117921.9	5.368	mg/L	0.0714	10.74	mg/L	0.143	1.33%
Tl 190.801†	-34.8	0.00681	mg/L	0.001641	0.01362	mg/L	0.003281	24.09%
V 292.402†	33574.2	0.3286	mg/L	0.00359	0.6573	mg/L	0.00718	1.09%
Zn 206.200†	372.5	0.5975	mg/L	0.00527	1.195	mg/L	0.0105	0.88%

Sequence No.: 12
Sample ID: RF71 A SWC
Analyst: ALA
Dilution: 2X

DEL

Autosampler Location: 308
Date Collected: 8/6/2010 10:14:18 AM
Data Type: Original

Nebulizer Parameters: RF71 A SWC

Analyte Back Pressure Flow
All 199.0 kPa 0.75 L/min

Mean Data: RF71 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1935116.0	101.8	%	1.28				1.26%
ScR 361.383	296773.6	101.4	%	0.70				0.69%
Ag 328.068†	42.6	0.00013	mg/L	0.000171	0.00026	mg/L	0.000342	131.39%
Al 308.215†	158364.6	125.4	mg/L	0.85	250.7	mg/L	1.70	0.68%
As 188.979†	-72.1	0.05526	mg/L	0.002437	0.1105	mg/L	0.00487	4.41%
B 249.677†	266.2	0.08020	mg/L	0.001474	0.1604	mg/L	0.00295	1.84%
Ba 233.527†	1075.6	0.3316	mg/L	0.00215	0.6631	mg/L	0.00429	0.65%
Be 313.042†	1079.8	0.00169	mg/L	0.000046	0.00338	mg/L	0.000092	2.71%
Ca 317.933†	472819.8	32.90	mg/L	0.254	65.79	mg/L	0.507	0.77%
Cd 228.802†	88.9	0.00458	mg/L	0.000449	0.00916	mg/L	0.000897	9.80%
Co 228.616†	2548.5	0.07372	mg/L	0.000919	0.1474	mg/L	0.00184	1.25%
Cr 267.716†	1483.4	0.3142	mg/L	0.00205	0.6284	mg/L	0.00410	0.65%
Cu 324.752†	95159.4	0.3529	mg/L	0.00406	0.7057	mg/L	0.00812	1.15%
Fe 273.955†	207505.3	183.2	mg/L	1.21	366.3	mg/L	2.42	0.66%
K 766.490†	14925.0	10.44	mg/L	0.096	20.87	mg/L	0.193	0.92%
Mg 279.077†	59318.2	64.10	mg/L	0.476	128.2	mg/L	0.95	0.74%
Mn 257.610†	62128.7	2.119	mg/L	0.0132	4.238	mg/L	0.0264	0.62%
Mo 202.031†	210.7	0.01168	mg/L	0.000198	0.02337	mg/L	0.000397	1.70%
Na 589.592†	207784.6	17.51	mg/L	0.096	35.02	mg/L	0.192	0.55%
Na 330.237†	482.0	18.36	mg/L	0.137	36.72	mg/L	0.275	0.75%
Ni 231.604†	477.0	0.2946	mg/L	0.00290	0.5893	mg/L	0.00580	0.98%
Pb 220.353†	1003.9	0.1542	mg/L	0.00186	0.3083	mg/L	0.00372	1.21%
Sb 206.836†	34.2	0.01854	mg/L	0.001025	0.03709	mg/L	0.002050	5.53%
Se 196.026†	38.8	0.03036	mg/L	0.005474	0.06073	mg/L	0.010948	18.03%
Si 288.158†	10940.5	7.408	mg/L	0.0629	14.82	mg/L	0.126	0.85%
Sn 189.927†	17.9	0.00914	mg/L	0.000924	0.01829	mg/L	0.001848	10.10%
Sr 421.552†	169060.7	0.2674	mg/L	0.00252	0.5347	mg/L	0.00503	0.94%
Ti 334.903†	132058.6	6.012	mg/L	0.0407	12.02	mg/L	0.081	0.68%
Tl 190.801†	-33.8	0.00905	mg/L	0.002683	0.01810	mg/L	0.005366	29.64%
V 292.402†	38812.4	0.3816	mg/L	0.00683	0.7631	mg/L	0.01365	1.79%
Zn 206.200†	397.9	0.6382	mg/L	0.00860	1.276	mg/L	0.0172	1.35%

Sequence No.: 13
 Sample ID: RF71 ASPK SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 309
 Date Collected: 8/6/2010 10:18:14 AM
 Data Type: Original

Nebulizer Parameters: RF71 ASPK SWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RF71 ASPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1935544.1	101.8	%	1.31				1.29%
ScR 361.383	296252.8	101.2	%	1.57				1.55%
Ag 328.068†	85187.9	0.4917	mg/L	0.00849	0.9833	mg/L	0.01699	1.73%
Al 308.215†	155584.6	123.2	mg/L	2.60	246.3	mg/L	5.20	2.11%
As 188.979†	2683.0	2.049	mg/L	0.0336	4.097	mg/L	0.0671	1.64%
B 249.677†	283.4	0.08420	mg/L	0.001285	0.1684	mg/L	0.00257	1.53%
Ba 233.527†	7250.2	2.335	mg/L	0.0383	4.669	mg/L	0.0766	1.64%
Be 313.042†	267105.3	0.4856	mg/L	0.01274	0.9712	mg/L	0.02548	2.62%
Ca 317.933†	622544.5	43.31	mg/L	1.104	86.63	mg/L	2.207	2.55%
Cd 228.802†	11046.7	0.5186	mg/L	0.00810	1.037	mg/L	0.0162	1.56%
Co 228.616†	16738.4	0.5538	mg/L	0.00830	1.108	mg/L	0.0166	1.50%
Cr 267.716†	3826.1	0.8098	mg/L	0.01339	1.620	mg/L	0.0268	1.65%
Cu 324.752†	228301.1	0.8331	mg/L	0.01445	1.666	mg/L	0.0289	1.73%
Fe 273.955†	201940.8	178.2	mg/L	4.22	356.5	mg/L	8.43	2.37%
K 766.490†	29008.4	20.28	mg/L	0.427	40.56	mg/L	0.854	2.11%
Mg 279.077†	65468.9	70.76	mg/L	1.601	141.5	mg/L	3.20	2.26%
Mn 257.610†	73242.0	2.499	mg/L	0.0639	4.997	mg/L	0.1278	2.56%
Mo 202.031†	209.7	0.01145	mg/L	0.000226	0.02290	mg/L	0.000451	1.97%
Na 589.592†	327164.0	27.57	mg/L	0.604	55.14	mg/L	1.207	2.19%
Na 330.237†	785.4	28.76	mg/L	0.562	57.52	mg/L	1.124	1.95%
Ni 231.604†	1215.2	0.7509	mg/L	0.01343	1.502	mg/L	0.0269	1.79%
Pb 220.353†	14286.0	2.080	mg/L	0.0300	4.161	mg/L	0.0599	1.44%
Sb 206.836†	1014.4	0.3797	mg/L	0.00438	0.7595	mg/L	0.00876	1.15%
Se 196.026†	2443.5	2.050	mg/L	0.0333	4.099	mg/L	0.0666	1.62%
Si 288.158†	11372.0	7.702	mg/L	0.1187	15.40	mg/L	0.237	1.54%
Sn 189.927†	6.7	0.00676	mg/L	0.002135	0.01351	mg/L	0.004270	31.60%
Sr 421.552†	481853.3	0.7620	mg/L	0.01693	1.524	mg/L	0.0339	2.22%
Ti 334.903†	128811.4	5.863	mg/L	0.1290	11.73	mg/L	0.258	2.20%
Tl 190.801†	3265.5	1.925	mg/L	0.0304	3.850	mg/L	0.0609	1.58%
V 292.402†	81592.6	0.8285	mg/L	0.01035	1.657	mg/L	0.0207	1.25%
Zn 206.200†	675.2	1.085	mg/L	0.0172	2.171	mg/L	0.0344	1.58%

Sequence No. : 14 *RF71 APOST SWC*
 Sample ID: *RF71 APOST SWC 222222*
 Analyst: ALA
 Dilution: 2X
USE #8940

Autosampler Location: 310
 Date Collected: 8/6/2010 10:21:59 AM
 Data Type: Original

Nebulizer Parameters: RF71 APOST SWC
 Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RF71 APOST SWC

Analyte	Mean Corrected			Std.Dev.	Sample			RSD
	Intensity	Conc.	Calib. Units		Conc.	Units	Std.Dev.	
ScA 357.253	1945358.4	102.3	%	0.76				0.75%
ScR 361.383	299180.8	102.2	%	0.74				0.72%
Ag 328.068†	85858.9	0.4955	mg/L	0.00175	0.9911	mg/L	0.00350	0.35%
Al 308.215†	156169.7	123.6	mg/L	0.25	247.2	mg/L	0.51	0.20%
As 188.979†	2737.8	2.088	mg/L	0.0161	4.176	mg/L	0.0321	0.77%
B 249.677†	264.0	0.07833	mg/L	0.001573	0.1567	mg/L	0.00315	2.01%
Ba 233.527†	7253.1	2.335	mg/L	0.0148	4.671	mg/L	0.0295	0.63%
Be 313.042†	266419.4	0.4843	mg/L	0.00143	0.9686	mg/L	0.00286	0.30%
Ca 317.933†	603300.5	41.98	mg/L	0.139	83.95	mg/L	0.278	0.33%
Cd 228.802†	11146.4	0.5232	mg/L	0.00505	1.046	mg/L	0.0101	0.96%
Co 228.616†	16949.7	0.5610	mg/L	0.00502	1.122	mg/L	0.0100	0.90%
Cr 267.716†	3815.3	0.8074	mg/L	0.00605	1.615	mg/L	0.0121	0.75%
Cu 324.752†	228689.1	0.8345	mg/L	0.00591	1.669	mg/L	0.0118	0.71%
Fe 273.955†	203762.5	179.9	mg/L	0.82	359.7	mg/L	1.64	0.46%
K 766.490†	28958.5	20.25	mg/L	0.018	40.49	mg/L	0.037	0.09%
Mg 279.077†	66988.2	72.40	mg/L	0.191	144.8	mg/L	0.38	0.26%
Mn 257.610†	74258.5	2.533	mg/L	0.0066	5.067	mg/L	0.0132	0.26%
Mo 202.031†	202.9	0.01108	mg/L	0.000287	0.02215	mg/L	0.000573	2.59%
Na 589.592†	319113.9	26.89	mg/L	0.059	53.78	mg/L	0.117	0.22%
Na 330.237†	769.8	28.20	mg/L	0.270	56.41	mg/L	0.540	0.96%
Ni 231.604†	1220.0	0.7550	mg/L	0.00570	1.510	mg/L	0.0114	0.75%
Pb 220.353†	14424.6	2.100	mg/L	0.0153	4.201	mg/L	0.0306	0.73%
Sb 206.836†	5550.7	2.070	mg/L	0.0172	4.139	mg/L	0.0343	0.83%
Se 196.026†	2510.8	2.106	mg/L	0.0216	4.212	mg/L	0.0431	1.02%
Si 288.158†	10979.3	7.436	mg/L	0.0555	14.87	mg/L	0.111	0.75%
Sn 189.927†	2.7	0.00666	mg/L	0.000348	0.01333	mg/L	0.000696	5.22%
Sr 421.552†	474377.4	0.7502	mg/L	0.00207	1.500	mg/L	0.0041	0.28%
Ti 334.903†	128325.1	5.841	mg/L	0.0133	11.68	mg/L	0.027	0.23%
Tl 190.801†	3295.4	1.943	mg/L	0.0148	3.885	mg/L	0.0295	0.76%
V 292.402†	83871.7	0.8520	mg/L	0.01263	1.704	mg/L	0.0253	1.48%
Zn 206.200†	677.4	1.089	mg/L	0.0142	2.178	mg/L	0.0284	1.30%

Sequence No.: 15
 Sample ID: RF71 MB1SPK SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 311
 Date Collected: 8/6/2010 10:25:42 AM
 Data Type: Original

Nebulizer Parameters: RF71 MB1SPK SWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RF71 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1937689.8	101.9	%	0.32				0.32%
ScR 361.383	296376.3	101.3	%	0.39				0.38%
Ag 328.068†	93882.6	0.5420	mg/L	0.00234	1.084	mg/L	0.0047	0.43%
Al 308.215†	2713.8	2.139	mg/L	0.0058	4.278	mg/L	0.0115	0.27%
As 188.979†	2923.3	2.118	mg/L	0.0074	4.236	mg/L	0.0149	0.35%
B 249.677†	-3.5	-0.00235	mg/L	0.000760	-0.00470	mg/L	0.001519	32.34%
Ba 233.527†	6536.8	2.120	mg/L	0.0086	4.240	mg/L	0.0172	0.41%
Be 313.042†	275757.6	0.5016	mg/L	0.00257	1.003	mg/L	0.0051	0.51%
Ca 317.933†	146668.3	10.20	mg/L	0.051	20.41	mg/L	0.102	0.50%
Cd 228.802†	11272.5	0.5286	mg/L	0.00064	1.057	mg/L	0.0013	0.12%
Co 228.616†	15317.7	0.5179	mg/L	0.00176	1.036	mg/L	0.0035	0.34%
Cr 267.716†	2537.0	0.5367	mg/L	0.00289	1.073	mg/L	0.0058	0.54%
Cu 324.752†	138824.8	0.5011	mg/L	0.00292	1.002	mg/L	0.0058	0.58%
Fe 273.955†	2441.0	2.152	mg/L	0.0060	4.304	mg/L	0.0121	0.28%
K 766.490†	14780.1	10.33	mg/L	0.031	20.67	mg/L	0.063	0.30%
Mg 279.077†	9585.6	10.37	mg/L	0.026	20.75	mg/L	0.051	0.25%
Mn 257.610†	14701.3	0.5019	mg/L	0.00420	1.004	mg/L	0.0084	0.84%
Mo 202.031†	19.7	0.00097	mg/L	0.000388	0.00193	mg/L	0.000777	40.14%
Na 589.592†	120061.4	10.12	mg/L	0.039	20.23	mg/L	0.078	0.38%
Na 330.237†	320.6	11.02	mg/L	0.265	22.04	mg/L	0.529	2.40%
Ni 231.604†	821.0	0.5087	mg/L	0.00345	1.017	mg/L	0.0069	0.68%
Pb 220.353†	14114.1	2.047	mg/L	0.0135	4.094	mg/L	0.0271	0.66%
Sb 206.836†	5823.4	2.165	mg/L	0.0088	4.331	mg/L	0.0177	0.41%
Se 196.026†	2527.9	2.123	mg/L	0.0086	4.245	mg/L	0.0173	0.41%
Si 288.158†	9.3	0.00821	mg/L	0.008348	0.01641	mg/L	0.016695	101.73%
Sn 189.927†	-13.7	-0.00187	mg/L	0.000890	-0.00374	mg/L	0.001780	47.64%
Sr 421.552†	323572.9	0.5117	mg/L	0.00125	1.023	mg/L	0.0025	0.25%
Ti 334.903†	52.5	0.00166	mg/L	0.000406	0.00331	mg/L	0.000811	24.49%
Tl 190.801†	3607.4	2.096	mg/L	0.0147	4.192	mg/L	0.0293	0.70%
V 292.402†	51162.2	0.5334	mg/L	0.00454	1.067	mg/L	0.0091	0.85%
Zn 206.200†	316.2	0.5100	mg/L	0.00392	1.020	mg/L	0.0078	0.77%

Sequence No.: 16
Sample ID: RG11 MB1SPK SWC
Analyst: ALA
Dilution: 2X

Autosampler Location: 312
Date Collected: 8/6/2010 10:29:53 AM
Data Type: Original

DEL

Nebulizer Parameters: RG11 MB1SPK SWC
Analyte Back Pressure Flow
All 199.0 kPa 0.75 L/min

Mean Data: RG11 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1939033.5	102.0	%	2.17				2.12%
ScR 361.383	295863.1	101.1	%	1.65				1.63%
Ag 328.068†	92091.3	0.5316	mg/L	0.01036	1.063	mg/L	0.0207	1.95%
Al 308.215†	2649.8	2.088	mg/L	0.0462	4.177	mg/L	0.0924	2.21%
As 188.979†	2868.0	2.078	mg/L	0.0508	4.156	mg/L	0.1016	2.45%
B 249.677†	-0.8	-0.00153	mg/L	0.000750	-0.00306	mg/L	0.001499	48.94%
Ba 233.527†	6409.4	2.079	mg/L	0.0389	4.157	mg/L	0.0778	1.87%
Be 313.042†	269592.0	0.4903	mg/L	0.00485	0.9807	mg/L	0.00970	0.99%
Ca 317.933†	149100.3	10.37	mg/L	0.213	20.75	mg/L	0.425	2.05%
Cd 228.802†	11113.1	0.5211	mg/L	0.00900	1.042	mg/L	0.0180	1.73%
Co 228.616†	15046.0	0.5087	mg/L	0.00894	1.017	mg/L	0.0179	1.76%
Cr 267.716†	2487.0	0.5261	mg/L	0.00916	1.052	mg/L	0.0183	1.74%
Cu 324.752†	137265.7	0.4954	mg/L	0.01630	0.9909	mg/L	0.03259	3.29%
Fe 273.955†	2384.7	2.102	mg/L	0.0404	4.204	mg/L	0.0809	1.92%
K 766.490†	14825.3	10.37	mg/L	0.112	20.73	mg/L	0.225	1.09%
Mg 279.077†	9489.4	10.27	mg/L	0.192	20.54	mg/L	0.384	1.87%
Mn 257.610†	14530.2	0.4961	mg/L	0.00675	0.9921	mg/L	0.01350	1.36%
Mo 202.031†	18.7	0.00091	mg/L	0.000281	0.00182	mg/L	0.000563	30.91%
Na 589.592†	117703.8	9.919	mg/L	0.1321	19.84	mg/L	0.264	1.33%
Na 330.237†	314.9	10.83	mg/L	0.385	21.66	mg/L	0.770	3.56%
Ni 231.604†	807.3	0.4986	mg/L	0.00748	0.9972	mg/L	0.01497	1.50%
Pb 220.353†	13839.0	2.007	mg/L	0.0311	4.014	mg/L	0.0621	1.55%
Sb 206.836†	27.9	0.00656	mg/L	0.003094	0.01311	mg/L	0.006188	47.19%
Se 196.026†	2498.7	2.098	mg/L	0.0544	4.196	mg/L	0.1088	2.59%
Si 288.158†	4.8	0.00514	mg/L	0.004635	0.01027	mg/L	0.009270	90.24%
Sn 189.927†	-9.7	-0.00215	mg/L	0.000310	-0.00429	mg/L	0.000620	14.44%
Sr 421.552†	317884.3	0.5027	mg/L	0.00408	1.005	mg/L	0.0082	0.81%
Ti 334.903†	25.2	0.00041	mg/L	0.000458	0.00081	mg/L	0.000917	112.98%
Tl 190.801†	3542.2	2.058	mg/L	0.0544	4.116	mg/L	0.1087	2.64%
V 292.402†	49964.2	0.5209	mg/L	0.00768	1.042	mg/L	0.0154	1.47%
Zn 206.200†	305.0	0.4918	mg/L	0.00734	0.9836	mg/L	0.01469	1.49%

Sequence No.: 17

Sample ID: RG11 MB1SPD *Succ*

Analyst: ALA

Dilution: 2X

48-6 DEL

Autosampler Location: 313

Date Collected: 8/6/2010 10:34:04 AM

Data Type: Original

Nebulizer Parameters: RG11 MB1SPD

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RG11 MB1SPD

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1930298.4	101.5	%	3.25			3.20%
ScR 361.383	294099.1	100.5	%	0.96			0.96%
Ag 328.068†	92155.4	0.5320	mg/L	0.01265	1.064	mg/L	0.0253 2.38%
Al 308.215†	2661.6	2.098	mg/L	0.0170	4.195	mg/L	0.0340 0.81%
As 188.979†	2873.6	2.082	mg/L	0.0638	4.164	mg/L	0.1276 3.06%
B 249.677†	-6.6	-0.00328	mg/L	0.001527	-0.00655	mg/L	0.003053 46.60%
Ba 233.527†	6414.4	2.080	mg/L	0.0207	4.160	mg/L	0.0414 1.00%
Be 313.042†	270602.8	0.4922	mg/L	0.00382	0.9843	mg/L	0.00765 0.78%
Ca 317.933†	143945.0	10.02	mg/L	0.082	20.03	mg/L	0.163 0.82%
Cd 228.802†	11146.6	0.5227	mg/L	0.01554	1.045	mg/L	0.0311 2.97%
Co 228.616†	15039.3	0.5085	mg/L	0.01451	1.017	mg/L	0.0290 2.85%
Cr 267.716†	2495.1	0.5278	mg/L	0.00614	1.056	mg/L	0.0123 1.16%
Cu 324.752†	137393.9	0.4959	mg/L	0.01822	0.9918	mg/L	0.03645 3.68%
Fe 273.955†	2410.9	2.125	mg/L	0.0183	4.251	mg/L	0.0366 0.86%
K 766.490†	14924.1	10.43	mg/L	0.032	20.87	mg/L	0.064 0.31%
Mg 279.077†	9531.0	10.31	mg/L	0.031	20.63	mg/L	0.063 0.30%
Mn 257.610†	14608.5	0.4987	mg/L	0.00297	0.9975	mg/L	0.00595 0.60%
Mo 202.031†	18.1	0.00088	mg/L	0.000297	0.00175	mg/L	0.000595 33.90%
Na 589.592†	118218.4	9.962	mg/L	0.0596	19.92	mg/L	0.119 0.60%
Na 330.237†	308.2	10.59	mg/L	0.057	21.19	mg/L	0.114 0.54%
Ni 231.604†	810.2	0.5004	mg/L	0.00630	1.001	mg/L	0.0126 1.26%
Pb 220.353†	13863.6	2.011	mg/L	0.0484	4.021	mg/L	0.0967 2.41%
Sb 206.836†	17.2	0.00258	mg/L	0.002075	0.00515	mg/L	0.004149 80.49%
Se 196.026†	2502.7	2.101	mg/L	0.0643	4.203	mg/L	0.1285 3.06%
Si 288.158†	3.5	0.00423	mg/L	0.001894	0.00846	mg/L	0.003788 44.78%
Sn 189.927†	-8.8	-0.00193	mg/L	0.000320	-0.00386	mg/L	0.000639 16.56%
Sr 421.552†	319716.2	0.5056	mg/L	0.00414	1.011	mg/L	0.0083 0.82%
Ti 334.903†	18.3	0.00011	mg/L	0.000410	0.00022	mg/L	0.000821 367.90%
Tl 190.801†	3544.0	2.059	mg/L	0.0666	4.118	mg/L	0.1333 3.24%
V 292.402†	50199.9	0.5233	mg/L	0.01181	1.047	mg/L	0.0236 2.26%
Zn 206.200†	307.4	0.4957	mg/L	0.00869	0.9914	mg/L	0.01738 1.75%

Sequence No.: 18
 Sample ID: CV *N*
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/6/2010 10:38:15 AM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1929390.4	101.5 %	0.96			0.95%
ScR 361.383	279806.6	95.60 %	0.680			0.71%
Ag 328.068†	181722.2	1.049 mg/L	0.0122	1.049 mg/L	0.0122	1.16%
Al 308.215†	2836.5	2.213 mg/L	0.0129	2.213 mg/L	0.0129	0.58%
As 188.979†	2830.2	2.068 mg/L	0.0173	2.068 mg/L	0.0173	0.83%
B 249.677†	3485.0	1.051 mg/L	0.0059	1.051 mg/L	0.0059	0.56%
Ba 233.527†	3365.1	1.091 mg/L	0.0059	1.091 mg/L	0.0059	0.54%
Be 313.042†	569051.9	1.035 mg/L	0.0085	1.035 mg/L	0.0085	0.82%
Ca 317.933†	31741.7	2.208 mg/L	0.0138	2.208 mg/L	0.0138	0.62%
Cd 228.802†	22644.5	1.069 mg/L	0.0145	1.069 mg/L	0.0145	1.35%
Co 228.616†	30798.1	1.040 mg/L	0.0153	1.040 mg/L	0.0153	1.47%
Cr 267.716†	5245.7	1.112 mg/L	0.0083	1.112 mg/L	0.0083	0.74%
Cu 324.752†	290964.3	1.049 mg/L	0.0114	1.049 mg/L	0.0114	1.09%
Fe 273.955†	2445.3	2.153 mg/L	0.0188	2.153 mg/L	0.0188	0.87%
K 766.490†	31074.9	21.73 mg/L	0.004	21.73 mg/L	0.004	0.02%
Mg 279.077†	2012.1	2.183 mg/L	0.0198	2.183 mg/L	0.0198	0.91%
Mn 257.610†	30875.4	1.054 mg/L	0.0043	1.054 mg/L	0.0043	0.41%
Mo 202.031†	17549.3	1.021 mg/L	0.0120	1.021 mg/L	0.0120	1.18%
Na 589.592†	624705.6	52.64 mg/L	0.478	52.64 mg/L	0.478	0.91%
Na 330.237†	1605.2	55.53 mg/L	0.466	55.53 mg/L	0.466	0.84%
Ni 231.604†	1716.5	1.062 mg/L	0.0079	1.062 mg/L	0.0079	0.74%
Pb 220.353†	14186.1	2.058 mg/L	0.0214	2.058 mg/L	0.0214	1.04%
Sb 206.836†	5669.7	2.117 mg/L	0.0231	2.117 mg/L	0.0231	1.09%
Se 196.026†	2466.7	2.072 mg/L	0.0268	2.072 mg/L	0.0268	1.29%
Si 288.158†	3333.4	2.261 mg/L	0.0140	2.261 mg/L	0.0140	0.62%
Sn 189.927†	3770.6	1.027 mg/L	0.0119	1.027 mg/L	0.0119	1.16%
Sr 421.552†	673626.6	1.065 mg/L	0.0104	1.065 mg/L	0.0104	0.98%
Ti 334.903†	23447.7	1.066 mg/L	0.0016	1.066 mg/L	0.0016	0.15%
Tl 190.801†	3527.1	2.051 mg/L	0.0247	2.051 mg/L	0.0247	1.20%
V 292.402†	99594.0	1.039 mg/L	0.0075	1.039 mg/L	0.0075	0.72%
Zn 206.200†	655.4	1.057 mg/L	0.0065	1.057 mg/L	0.0065	0.61%

Sequence No.: 19
 Sample ID: CB 2
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/6/2010 10:42:28 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1941046.8	102.1	%	0.70			0.68%
ScR 361.383	279669.7	95.55	%	0.726			0.76%
Ag 328.068†	-20.1	-0.00012	mg/L	0.000102	-0.00012 mg/L	0.000102	87.87%
Al 308.215†	-6.5	-0.00517	mg/L	0.004567	-0.00517 mg/L	0.004567	88.34%
As 188.979†	-1.2	-0.00090	mg/L	0.000314	-0.00090 mg/L	0.000314	34.95%
B 249.677†	-3.2	-0.00096	mg/L	0.001306	-0.00096 mg/L	0.001306	135.64%
Ba 233.527†	2.5	0.00081	mg/L	0.000587	0.00081 mg/L	0.000587	72.38%
Be 313.042†	99.1	0.00018	mg/L	0.000075	0.00018 mg/L	0.000075	41.63%
Ca 317.933†	23.4	0.00163	mg/L	0.001235	0.00163 mg/L	0.001235	75.86%
Cd 228.802†	1.9	0.00009	mg/L	0.000034	0.00009 mg/L	0.000034	35.89%
Co 228.616†	1.2	0.00004	mg/L	0.000116	0.00004 mg/L	0.000116	293.25%
Cr 267.716†	-3.5	-0.00074	mg/L	0.000812	-0.00074 mg/L	0.000812	109.39%
Cu 324.752†	-10.2	-0.00004	mg/L	0.000322	-0.00004 mg/L	0.000322	864.49%
Fe 273.955†	-3.7	-0.00328	mg/L	0.001436	-0.00328 mg/L	0.001436	43.76%
K 766.490†	98.9	0.06914	mg/L	0.018016	0.06914 mg/L	0.018016	26.06%
Mg 279.077†	1.8	0.00198	mg/L	0.016643	0.00198 mg/L	0.016643	839.10%
Mn 257.610†	-0.3	-0.00001	mg/L	0.000122	-0.00001 mg/L	0.000122	>999.9%
Mo 202.031†	3.7	0.00021	mg/L	0.000138	0.00021 mg/L	0.000138	64.79%
Na 589.592†	43.8	0.00369	mg/L	0.003599	0.00369 mg/L	0.003599	97.54%
Na 330.237†	-6.6	-0.2262	mg/L	0.78478	-0.2262 mg/L	0.78478	346.98%
Ni 231.604†	3.9	0.00241	mg/L	0.001615	0.00241 mg/L	0.001615	66.97%
Pb 220.353†	-6.7	-0.00097	mg/L	0.000111	-0.00097 mg/L	0.000111	11.35%
Sb 206.836†	7.6	0.00287	mg/L	0.000990	0.00287 mg/L	0.000990	34.48%
Se 196.026†	1.7	0.00145	mg/L	0.001260	0.00145 mg/L	0.001260	87.06%
Si 288.158†	6.9	0.00465	mg/L	0.005720	0.00465 mg/L	0.005720	122.94%
Sn 189.927†	5.3	0.00144	mg/L	0.000421	0.00144 mg/L	0.000421	29.19%
Sr 421.552†	60.9	0.00010	mg/L	0.000018	0.00010 mg/L	0.000018	18.67%
Ti 334.903†	0.7	0.00003	mg/L	0.000254	0.00003 mg/L	0.000254	768.34%
Tl 190.801†	5.4	0.00315	mg/L	0.003419	0.00315 mg/L	0.003419	108.43%
V 292.402†	-3.0	-0.00003	mg/L	0.000038	-0.00003 mg/L	0.000038	109.95%
Zn 206.200†	-0.8	-0.00135	mg/L	0.003625	-0.00135 mg/L	0.003625	269.41%

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Analysis Begun

Start Time: 8/6/2010 10:48:39 AM

Plasma On Time: 8/6/2010 7:12:02 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0806.sif

Batch ID:

Results Data Set: I2100806

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Sample ID: STD2

Date Collected: 8/6/2010 10:48:40 AM

Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD2

Analyte	Mean Corrected			Calib Conc. Units
	Intensity	Std.Dev.	RSD	
ScA 357.253	1960937.8	24545.63	1.25%	103.1 %
ScR 361.383	279697.4	1432.83	0.51%	95.56 %
Ba 233.527†	33335.7	55.71	0.17%	[10] mg/L
Cd 228.802†	213318.0	3295.79	1.55%	[10] mg/L
Co 228.616†	301306.6	5113.68	1.70%	[10] mg/L
Cr 267.716†	51381.4	154.99	0.30%	[10] mg/L
Cu 324.752†	2788430.0	54663.57	1.96%	[10] mg/L
Mn 257.610†	315116.4	469.25	0.15%	[10] mg/L
V 292.402†	983433.1	17328.86	1.76%	[10] mg/L

Sequence No.: 2
Sample ID: STD5

Date Collected: 8/6/2010 10:50:31 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1831252.8	28627.53	1.56%	96.30	%
ScR 361.383	295220.7	2321.17	0.79%	100.9	%
Al 308.215†	38023.1	530.05	1.39%	[30]	mg/L
Ca 317.933†	435603.2	2148.96	0.49%	[30]	mg/L
Fe 273.955†	114343.3	551.89	0.48%	[100]	mg/L
K 766.490†	145316.8	1012.11	0.70%	[100]	mg/L
Mg 279.077†	28155.8	250.41	0.89%	[30]	mg/L
Na 330.237†	2908.8	34.15	1.17%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	173200	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1267	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1380	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3310	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3334	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	549500	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	14520	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	21330	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	30130	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	5138	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	278800	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1143	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1453	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	938.5	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	31510	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	17190	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	11870	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	29.09	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1619	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	6897	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2685	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1191	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1477	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3677	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	632400	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	21960	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1720	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	98340	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	620.0	0.00000	1.000000	

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Analysis Begun

Start Time: 8/6/2010 10:53:42 AM

Plasma On Time: 8/6/2010 7:12:02 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0806.sif

Batch ID:

Results Data Set: I2100806

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/6/2010 10:53:43 AM

Analyst: ALA

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1916554.3	100.8 %	0.88			0.88%
ScR 361.383	290969.8	99.41 %	1.268			1.28%
Ag 328.068†	182817.8	1.055 mg/L	0.0082	1.055 mg/L	0.0082	0.77%
Al 308.215†	2731.4	2.123 mg/L	0.0263	2.123 mg/L	0.0263	1.24%
As 188.979†	2868.1	2.095 mg/L	0.0222	2.095 mg/L	0.0222	1.06%
B 249.677†	3376.3	1.018 mg/L	0.0113	1.018 mg/L	0.0113	1.11%
Ba 233.527†	3267.4	0.9794 mg/L	0.01398	0.9794 mg/L	0.01398	1.43%
Be 313.042†	549400.9	0.9993 mg/L	0.00527	0.9993 mg/L	0.00527	0.53%
Ca 317.933†	30758.3	2.118 mg/L	0.0292	2.118 mg/L	0.0292	1.38%
Cd 228.802†	22610.8	1.053 mg/L	0.0029	1.053 mg/L	0.0029	0.28%
Co 228.616†	30913.3	1.024 mg/L	0.0027	1.024 mg/L	0.0027	0.27%
Cr 267.716†	5091.4	0.9903 mg/L	0.01265	0.9903 mg/L	0.01265	1.28%
Cu 324.752†	291831.7	1.046 mg/L	0.0066	1.046 mg/L	0.0066	0.63%
Fe 273.955†	2379.9	2.076 mg/L	0.0333	2.076 mg/L	0.0333	1.60%
K 766.490†	29986.5	20.64 mg/L	0.127	20.64 mg/L	0.127	0.62%
Mg 279.077†	1960.4	2.094 mg/L	0.0229	2.094 mg/L	0.0229	1.09%
Mn 257.610†	29709.8	0.9433 mg/L	0.01003	0.9433 mg/L	0.01003	1.06%
Mo 202.031†	17734.0	1.032 mg/L	0.0090	1.032 mg/L	0.0090	0.87%
Na 589.592†	598481.1	50.43 mg/L	0.413	50.43 mg/L	0.413	0.82%
Na 330.237†	1546.9	53.23 mg/L	0.924	53.23 mg/L	0.924	1.74%
Ni 231.604†	1671.4	1.034 mg/L	0.0128	1.034 mg/L	0.0128	1.24%
Pb 220.353†	14388.7	2.087 mg/L	0.0174	2.087 mg/L	0.0174	0.83%
Sb 206.836†	5722.0	2.138 mg/L	0.0173	2.138 mg/L	0.0173	0.81%
Se 196.026†	2501.1	2.101 mg/L	0.0163	2.101 mg/L	0.0163	0.77%
Si 288.158†	3227.5	2.189 mg/L	0.0257	2.189 mg/L	0.0257	1.18%
Sn 189.927†	3826.2	1.043 mg/L	0.0107	1.043 mg/L	0.0107	1.03%
Sr 421.552†	648206.0	1.025 mg/L	0.0037	1.025 mg/L	0.0037	0.36%
Ti 334.903†	22498.2	1.023 mg/L	0.0094	1.023 mg/L	0.0094	0.92%
Tl 190.801†	3568.3	2.075 mg/L	0.0211	2.075 mg/L	0.0211	1.02%
V 292.402†	100301.1	1.024 mg/L	0.0045	1.024 mg/L	0.0045	0.44%
Zn 206.200†	641.1	1.033 mg/L	0.0154	1.033 mg/L	0.0154	1.49%

Sequence No.: 2
 Sample ID: CB 3
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/6/2010 10:57:56 AM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1935027.4	101.8	%	0.51			0.50%
ScR 361.383	297442.3	101.6	%	0.64			0.63%
Ag 328.068†	-15.7	-0.00009	mg/L	0.000091	-0.00009 mg/L	0.000091	100.68%
Al 308.215†	2.9	0.00231	mg/L	0.006753	0.00231 mg/L	0.006753	292.60%
As 188.979†	2.6	0.00187	mg/L	0.001131	0.00187 mg/L	0.001131	60.54%
B 249.677†	-1.8	-0.00053	mg/L	0.002307	-0.00053 mg/L	0.002307	435.59%
Ba 233.527†	1.3	0.00039	mg/L	0.000608	0.00039 mg/L	0.000608	155.29%
Be 313.042†	-2.2	0.00000	mg/L	0.000032	0.00000 mg/L	0.000032	805.50%
Ca 317.933†	6.5	0.00045	mg/L	0.001185	0.00045 mg/L	0.001185	266.00%
Cd 228.802†	-1.2	-0.00006	mg/L	0.000202	-0.00006 mg/L	0.000202	328.60%
Co 228.616†	-0.9	-0.00003	mg/L	0.000197	-0.00003 mg/L	0.000197	635.75%
Cr 267.716†	4.0	0.00077	mg/L	0.000710	0.00077 mg/L	0.000710	92.01%
Cu 324.752†	-22.0	-0.00008	mg/L	0.000153	-0.00008 mg/L	0.000153	193.20%
Fe 273.955†	-0.5	-0.00041	mg/L	0.000253	-0.00041 mg/L	0.000253	61.75%
K 766.490†	7.2	0.00498	mg/L	0.013775	0.00498 mg/L	0.013775	276.52%
Mg 279.077†	6.8	0.00725	mg/L	0.005082	0.00725 mg/L	0.005082	70.07%
Mn 257.610†	-1.2	-0.00004	mg/L	0.000120	-0.00004 mg/L	0.000120	314.89%
Mo 202.031†	0.1	0.00000	mg/L	0.000463	0.00000 mg/L	0.000463	>999.9%
Na 589.592†	97.0	0.00818	mg/L	0.004493	0.00818 mg/L	0.004493	54.96%
Na 330.237†	3.2	0.1106	mg/L	0.34940	0.1106 mg/L	0.34940	316.02%
Ni 231.604†	5.0	0.00311	mg/L	0.001262	0.00311 mg/L	0.001262	40.61%
Pb 220.353†	-7.9	-0.00115	mg/L	0.000492	-0.00115 mg/L	0.000492	42.82%
Sb 206.836†	7.2	0.00269	mg/L	0.001302	0.00269 mg/L	0.001302	48.41%
Se 196.026†	7.5	0.00626	mg/L	0.001597	0.00626 mg/L	0.001597	25.51%
Si 288.158†	6.8	0.00463	mg/L	0.000576	0.00463 mg/L	0.000576	12.46%
Sn 189.927†	5.1	0.00139	mg/L	0.000683	0.00139 mg/L	0.000683	49.12%
Sr 421.552†	-1.0	0.00000	mg/L	0.000073	0.00000 mg/L	0.000073	>999.9%
Ti 334.903†	6.8	0.00031	mg/L	0.000299	0.00031 mg/L	0.000299	96.57%
Tl 190.801†	0.6	0.00038	mg/L	0.001184	0.00038 mg/L	0.001184	314.55%
V 292.402†	-9.0	-0.00009	mg/L	0.000432	-0.00009 mg/L	0.000432	486.61%
Zn 206.200†	-0.7	-0.00112	mg/L	0.002471	-0.00112 mg/L	0.002471	220.63%

Sequence No.: 3
 Sample ID: RG30 MB1 TWC
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 314
 Date Collected: 8/6/2010 11:02:07 AM
 Data Type: Original

Nebulizer Parameters: RG30 MB1 TWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RG30 MB1 TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1942754.0	102.2	%	0.21			0.21%
ScR 361.383	277677.0	94.87	%	0.056			0.06%
Ag 328.068†	-4.4	-0.00003	mg/L	0.000078	-0.00003 mg/L	0.000078	305.13%
Al 308.215†	8.4	0.00661	mg/L	0.005596	0.00661 mg/L	0.005596	84.69%
As 188.979†	-0.6	-0.00042	mg/L	0.002268	-0.00042 mg/L	0.002268	540.83%
B 249.677†	-4.3	-0.00130	mg/L	0.003058	-0.00130 mg/L	0.003058	235.04%
Ba 233.527†	3.2	0.00096	mg/L	0.000156	0.00096 mg/L	0.000156	16.32%
Be 313.042†	57.6	0.00010	mg/L	0.000039	0.00010 mg/L	0.000039	37.09%
Ca 317.933†	166.4	0.01146	mg/L	0.000684	0.01146 mg/L	0.000684	5.97%
Cd 228.802†	2.2	0.00011	mg/L	0.000119	0.00011 mg/L	0.000119	110.11%
Co 228.616†	2.7	0.00009	mg/L	0.000226	0.00009 mg/L	0.000226	258.06%
Cr 267.716†	0.9	0.00017	mg/L	0.000379	0.00017 mg/L	0.000379	225.70%
Cu 324.752†	34.7	0.00012	mg/L	0.000123	0.00012 mg/L	0.000123	98.61%
Fe 273.955†	6.0	0.00521	mg/L	0.004534	0.00521 mg/L	0.004534	87.03%
K 766.490†	66.1	0.04551	mg/L	0.010966	0.04551 mg/L	0.010966	24.10%
Mg 279.077†	4.6	0.00485	mg/L	0.006011	0.00485 mg/L	0.006011	123.95%
Mn 257.610†	6.8	0.00021	mg/L	0.000216	0.00021 mg/L	0.000216	100.52%
Mo 202.031†	-1.6	-0.00009	mg/L	0.000246	-0.00009 mg/L	0.000246	269.61%
Na 589.592†	38.4	0.00324	mg/L	0.004210	0.00324 mg/L	0.004210	129.95%
Na 330.237†	0.3	0.01061	mg/L	0.437556	0.01061 mg/L	0.437556	>999.9%
Ni 231.604†	5.0	0.00308	mg/L	0.002760	0.00308 mg/L	0.002760	89.72%
Pb 220.353†	-3.3	-0.00047	mg/L	0.000334	-0.00047 mg/L	0.000334	70.85%
Sb 206.836†	1.3	0.00051	mg/L	0.000865	0.00051 mg/L	0.000865	170.77%
Se 196.026†	4.0	0.00334	mg/L	0.000739	0.00334 mg/L	0.000739	22.10%
Si 288.158†	13.8	0.00937	mg/L	0.006830	0.00937 mg/L	0.006830	72.91%
Sn 189.927†	3.6	0.00099	mg/L	0.000855	0.00099 mg/L	0.000855	86.63%
Sr 421.552†	56.4	0.00009	mg/L	0.000047	0.00009 mg/L	0.000047	52.99%
Ti 334.903†	0.8	0.00003	mg/L	0.000860	0.00003 mg/L	0.000860	>999.9%
Tl 190.801†	3.5	0.00206	mg/L	0.000523	0.00206 mg/L	0.000523	25.38%
V 292.402†	17.8	0.00018	mg/L	0.000246	0.00018 mg/L	0.000246	135.68%
Zn 206.200†	-0.0	-0.00006	mg/L	0.001341	-0.00006 mg/L	0.001341	>999.9%

Sequence No.: 4
 Sample ID: RG30 F TWC
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 315
 Date Collected: 8/6/2010 11:06:04 AM
 Data Type: Original

Nebulizer Parameters: RG30 F TWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RG30 F TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	1910460.4	100.5	%	1.08			1.07%
ScR 361.383	293466.0	100.3	%	0.43			0.43%
Ag 328.068†	-40.9	-0.00024	mg/L	0.000106	-0.00024 mg/L	0.000106	43.99%
Al 308.215†	100.8	0.07939	mg/L	0.006996	0.07939 mg/L	0.006996	8.81%
As 188.979†	18.4	0.01090	mg/L	0.002826	0.01090 mg/L	0.002826	25.93%
B 249.677†	127.7	0.03859	mg/L	0.000358	0.03859 mg/L	0.000358	0.93%
Ba 233.527†	462.2	0.1379	mg/L	0.00074	0.1379 mg/L	0.00074	0.54%
Be 313.042†	36.9	0.00007	mg/L	0.000015	0.00007 mg/L	0.000015	22.77%
Ca 317.933†	1227050.5	84.51	mg/L	0.607	84.51 mg/L	0.607	0.72%
Cd 228.802†	5.6	0.00022	mg/L	0.000131	0.00022 mg/L	0.000131	58.60%
Co 228.616†	16.9	0.00052	mg/L	0.000186	0.00052 mg/L	0.000186	35.77%
Cr 267.716†	44.2	0.00473	mg/L	0.001149	0.00473 mg/L	0.001149	24.27%
Cu 324.752†	716.3	0.00218	mg/L	0.000417	0.00218 mg/L	0.000417	19.14%
Fe 273.955†	77.7	0.06796	mg/L	0.001112	0.06796 mg/L	0.001112	1.64%
K 766.490†	8995.3	6.190	mg/L	0.0572	6.190 mg/L	0.0572	0.92%
Mg 279.077†	16068.5	17.11	mg/L	0.170	17.11 mg/L	0.170	0.99%
Mn 257.610†	921.3	0.02904	mg/L	0.000156	0.02904 mg/L	0.000156	0.54%
Mo 202.031†	102.6	0.00450	mg/L	0.000142	0.00450 mg/L	0.000142	3.16%
Na 589.592†	108123.2	9.111	mg/L	0.0395	9.111 mg/L	0.0395	0.43%
Na 330.237†	281.1	10.05	mg/L	0.190	10.05 mg/L	0.190	1.89%
Ni 231.604†	12.9	0.00798	mg/L	0.001737	0.00798 mg/L	0.001737	21.76%
Pb 220.353†	-45.2	-0.00653	mg/L	0.000465	-0.00653 mg/L	0.000465	7.12%
Sb 206.836†	10.7	0.00378	mg/L	0.001783	0.00378 mg/L	0.001783	47.14%
Se 196.026†	65.7	0.04945	mg/L	0.004765	0.04945 mg/L	0.004765	9.64%
Si 288.158†	25726.7	17.42	mg/L	0.223	17.42 mg/L	0.223	1.28%
Sn 189.927†	-43.2	-0.00783	mg/L	0.000616	-0.00783 mg/L	0.000616	7.88%
Sr 421.552†	243016.1	0.3843	mg/L	0.00171	0.3843 mg/L	0.00171	0.44%
Ti 334.903†	178.5	0.00285	mg/L	0.000434	0.00285 mg/L	0.000434	15.22%
Tl 190.801†	25.0	0.01458	mg/L	0.000596	0.01458 mg/L	0.000596	4.09%
V 292.402†	333.0	0.00342	mg/L	0.000164	0.00342 mg/L	0.000164	4.80%
Zn 206.200†	325.9	0.5256	mg/L	0.00328	0.5256 mg/L	0.00328	0.62%

Sequence No.: 5
Sample ID: RG30 G TWC
Analyst: ALA
Dilution: 1X

Autosampler Location: 316
Date Collected: 8/6/2010 11:10:15 AM
Data Type: Original

Nebulizer Parameters: RG30 G TWC

Analyte Back Pressure Flow
All 200.0 kPa 0.75 L/min

Mean Data: RG30 G TWC

Table with 8 columns: Analyte, Mean Corrected Intensity, Conc., Calib. Units, Std.Dev., Sample Conc., Sample Units, Std.Dev., RSD. Lists various elements like ScA, ScR, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn with their respective values.

Sequence No.: 6
 Sample ID: RG30 H TWC
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 317
 Date Collected: 8/6/2010 11:14:27 AM
 Data Type: Original

Nebulizer Parameters: RG30 H TWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RG30 H TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1878036.6	98.76	%	0.469			0.47%
ScR 361.383	287978.5	98.39	%	0.589			0.60%
Ag 328.068†	-54.8	-0.00034	mg/L	0.000126	-0.00034 mg/L	0.000126	37.09%
Al 308.215†	113.3	0.08920	mg/L	0.002615	0.08920 mg/L	0.002615	2.93%
As 188.979†	22.4	0.01235	mg/L	0.003378	0.01235 mg/L	0.003378	27.36%
B 249.677†	407.2	0.1230	mg/L	0.00100	0.1230 mg/L	0.00100	0.81%
Ba 233.527†	1345.9	0.4026	mg/L	0.00333	0.4026 mg/L	0.00333	0.83%
Be 313.042†	37.9	0.00007	mg/L	0.000056	0.00007 mg/L	0.000056	83.35%
Ca 317.933†	1939469.2	133.6	mg/L	0.23	133.6 mg/L	0.23	0.17%
Cd 228.802†	6.0	0.00024	mg/L	0.000150	0.00024 mg/L	0.000150	63.87%
Co 228.616†	43.0	0.00133	mg/L	0.000050	0.00133 mg/L	0.000050	3.77%
Cr 267.716†	79.9	0.00888	mg/L	0.001490	0.00888 mg/L	0.001490	16.78%
Cu 324.752†	1278.8	0.00388	mg/L	0.000118	0.00388 mg/L	0.000118	3.06%
Fe 273.955†	175.7	0.1537	mg/L	0.00407	0.1537 mg/L	0.00407	2.65%
K 766.490†	14790.0	10.18	mg/L	0.031	10.18 mg/L	0.031	0.30%
Mg 279.077†	29297.0	31.20	mg/L	0.201	31.20 mg/L	0.201	0.65%
Mn 257.610†	3852.8	0.1220	mg/L	0.00099	0.1220 mg/L	0.00099	0.81%
Mo 202.031†	128.0	0.00513	mg/L	0.000123	0.00513 mg/L	0.000123	2.39%
Na 589.592†	459765.3	38.74	mg/L	0.069	38.74 mg/L	0.069	0.18%
Na 330.237†	1142.5	40.05	mg/L	0.544	40.05 mg/L	0.544	1.36%
Ni 231.604†	17.1	0.01054	mg/L	0.001493	0.01054 mg/L	0.001493	14.17%
Pb 220.353†	-57.2	-0.00826	mg/L	0.001168	-0.00826 mg/L	0.001168	14.14%
Sb 206.836†	18.0	0.00637	mg/L	0.001215	0.00637 mg/L	0.001215	19.09%
Se 196.026†	60.9	0.04204	mg/L	0.005278	0.04204 mg/L	0.005278	12.55%
Si 288.158†	32057.4	21.71	mg/L	0.114	21.71 mg/L	0.114	0.52%
Sn 189.927†	-60.0	-0.01013	mg/L	0.001216	-0.01013 mg/L	0.001216	12.00%
Sr 421.552†	334787.9	0.5294	mg/L	0.00165	0.5294 mg/L	0.00165	0.31%
Ti 334.903†	236.5	0.00243	mg/L	0.000145	0.00243 mg/L	0.000145	5.98%
Tl 190.801†	27.6	0.01619	mg/L	0.003086	0.01619 mg/L	0.003086	19.06%
V 292.402†	335.3	0.00348	mg/L	0.000403	0.00348 mg/L	0.000403	11.59%
Zn 206.200†	71.3	0.1150	mg/L	0.00463	0.1150 mg/L	0.00463	4.03%

Sequence No.: 7
 Sample ID: RG30 ADUP TWC
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 318
 Date Collected: 8/6/2010 11:18:39 AM
 Data Type: Original

Nebulizer Parameters: RG30 ADUP TWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RG30 ADUP TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1886535.5	99.20	%	1.376			1.39%
ScR 361.383	287745.4	98.31	%	0.448			0.46%
Ag 328.068†	-56.1	-0.00035	mg/L	0.000210	-0.00035	mg/L	0.000210 60.46%
Al 308.215†	103.1	0.08119	mg/L	0.006807	0.08119	mg/L	0.006807 8.38%
As 188.979†	24.5	0.01373	mg/L	0.000947	0.01373	mg/L	0.000947 6.90%
B 249.677†	423.1	0.1278	mg/L	0.00355	0.1278	mg/L	0.00355 2.78%
Ba 233.527†	1388.8	0.4154	mg/L	0.00349	0.4154	mg/L	0.00349 0.84%
Be 313.042†	23.4	0.00004	mg/L	0.000023	0.00004	mg/L	0.000023 56.19%
Ca 317.933†	1994567.0	137.4	mg/L	0.98	137.4	mg/L	0.98 0.71%
Cd 228.802†	5.6	0.00021	mg/L	0.000233	0.00021	mg/L	0.000233 111.81%
Co 228.616†	36.1	0.00110	mg/L	0.000042	0.00110	mg/L	0.000042 3.84%
Cr 267.716†	83.2	0.00929	mg/L	0.001061	0.00929	mg/L	0.001061 11.41%
Cu 324.752†	1066.4	0.00309	mg/L	0.000448	0.00309	mg/L	0.000448 14.51%
Fe 273.955†	153.1	0.1339	mg/L	0.00170	0.1339	mg/L	0.00170 1.27%
K 766.490†	15350.6	10.56	mg/L	0.133	10.56	mg/L	0.133 1.25%
Mg 279.077†	30441.1	32.42	mg/L	0.286	32.42	mg/L	0.286 0.88%
Mn 257.610†	3761.5	0.1190	mg/L	0.00053	0.1190	mg/L	0.00053 0.45%
Mo 202.031†	119.2	0.00456	mg/L	0.000282	0.00456	mg/L	0.000282 6.19%
Na 589.592†	475049.4	40.03	mg/L	0.226	40.03	mg/L	0.226 0.57%
Na 330.237†	1201.3	42.10	mg/L	0.733	42.10	mg/L	0.733 1.74%
Ni 231.604†	17.2	0.01060	mg/L	0.001240	0.01060	mg/L	0.001240 11.69%
Pb 220.353†	-56.2	-0.00812	mg/L	0.001064	-0.00812	mg/L	0.001064 13.12%
Sb 206.836†	18.1	0.00641	mg/L	0.002750	0.00641	mg/L	0.002750 42.89%
Se 196.026†	64.8	0.04509	mg/L	0.003819	0.04509	mg/L	0.003819 8.47%
Si 288.158†	33621.6	22.77	mg/L	0.205	22.77	mg/L	0.205 0.90%
Sn 189.927†	-56.3	-0.00894	mg/L	0.000707	-0.00894	mg/L	0.000707 7.91%
Sr 421.552†	343866.8	0.5438	mg/L	0.00415	0.5438	mg/L	0.00415 0.76%
Ti 334.903†	213.9	0.00117	mg/L	0.000310	0.00117	mg/L	0.000310 26.59%
Tl 190.801†	28.3	0.01661	mg/L	0.000590	0.01661	mg/L	0.000590 3.55%
V 292.402†	361.5	0.00375	mg/L	0.000076	0.00375	mg/L	0.000076 2.03%
Zn 206.200†	72.0	0.1162	mg/L	0.00534	0.1162	mg/L	0.00534 4.60%

Sequence No.: 8
 Sample ID: RG30 A TWC
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 319
 Date Collected: 8/6/2010 11:22:51 AM
 Data Type: Original

Nebulizer Parameters: RG30 A TWC

Analyte Back Pressure Flow
 All 199.0 kPa 0.75 L/min

Mean Data: RG30 A TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1890477.9	99.41	%	0.550			0.55%
ScR 361.383	288515.3	98.58	%	0.131			0.13%
Ag 328.068†	-1.7	-0.00003	mg/L	0.000176	-0.00003 mg/L	0.000176	576.24%
Al 308.215†	102.4	0.08065	mg/L	0.001335	0.08065 mg/L	0.001335	1.66%
As 188.979†	24.8	0.01398	mg/L	0.001159	0.01398 mg/L	0.001159	8.29%
B 249.677†	418.9	0.1266	mg/L	0.00095	0.1266 mg/L	0.00095	0.75%
Ba 233.527†	1382.4	0.4135	mg/L	0.00069	0.4135 mg/L	0.00069	0.17%
Be 313.042†	13.5	0.00002	mg/L	0.000015	0.00002 mg/L	0.000015	66.10%
Ca 317.933†	1999500.8	137.7	mg/L	0.35	137.7 mg/L	0.35	0.25%
Cd 228.802†	2.9	0.00008	mg/L	0.000234	0.00008 mg/L	0.000234	285.21%
Co 228.616†	38.8	0.00119	mg/L	0.000179	0.00119 mg/L	0.000179	15.03%
Cr 267.716†	82.6	0.00921	mg/L	0.000457	0.00921 mg/L	0.000457	4.96%
Cu 324.752†	1219.0	0.00364	mg/L	0.000325	0.00364 mg/L	0.000325	8.93%
Fe 273.955†	148.2	0.1296	mg/L	0.00173	0.1296 mg/L	0.00173	1.33%
K 766.490†	15219.8	10.47	mg/L	0.034	10.47 mg/L	0.034	0.33%
Mg 279.077†	30178.5	32.14	mg/L	0.033	32.14 mg/L	0.033	0.10%
Mn 257.610†	3386.1	0.1071	mg/L	0.00045	0.1071 mg/L	0.00045	0.42%
Mo 202.031†	126.9	0.00500	mg/L	0.000415	0.00500 mg/L	0.000415	8.30%
Na 589.592†	476333.2	40.14	mg/L	0.064	40.14 mg/L	0.064	0.16%
Na 330.237†	1172.3	41.10	mg/L	0.129	41.10 mg/L	0.129	0.31%
Ni 231.604†	19.4	0.01197	mg/L	0.001870	0.01197 mg/L	0.001870	15.62%
Pb 220.353†	-55.6	-0.00804	mg/L	0.001026	-0.00804 mg/L	0.001026	12.77%
Sb 206.836†	16.8	0.00594	mg/L	0.000881	0.00594 mg/L	0.000881	14.83%
Se 196.026†	61.0	0.04188	mg/L	0.005476	0.04188 mg/L	0.005476	13.08%
Si 288.158†	31944.2	21.63	mg/L	0.039	21.63 mg/L	0.039	0.18%
Sn 189.927†	-57.1	-0.00915	mg/L	0.000717	-0.00915 mg/L	0.000717	7.84%
Sr 421.552†	345649.0	0.5466	mg/L	0.00230	0.5466 mg/L	0.00230	0.42%
Ti 334.903†	232.5	0.00199	mg/L	0.000133	0.00199 mg/L	0.000133	6.69%
Tl 190.801†	27.8	0.01628	mg/L	0.002405	0.01628 mg/L	0.002405	14.78%
V 292.402†	384.6	0.00398	mg/L	0.000238	0.00398 mg/L	0.000238	5.99%
Zn 206.200†	71.8	0.1158	mg/L	0.00536	0.1158 mg/L	0.00536	4.63%

Sequence No.: 9

Sample ID: RG30 ASPK TWC

Analyst: ALA

Dilution: 1X

Autosampler Location: 320

Date Collected: 8/6/2010 11:27:03 AM

Data Type: Original

Nebulizer Parameters: RG30 ASPK TWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.75 L/min

Mean Data: RG30 ASPK TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1882937.6	99.01	%	0.302				0.30%
ScR 361.383	285206.5	97.45	%	0.340				0.35%
Ag 328.068†	94212.9	0.5439	mg/L	0.00434	0.5439	mg/L	0.00434	0.80%
Al 308.215†	2920.7	2.295	mg/L	0.0055	2.295	mg/L	0.0055	0.24%
As 188.979†	3034.1	2.194	mg/L	0.0058	2.194	mg/L	0.0058	0.26%
B 249.677†	423.7	0.1267	mg/L	0.00133	0.1267	mg/L	0.00133	1.05%
Ba 233.527†	8095.8	2.427	mg/L	0.0113	2.427	mg/L	0.0113	0.47%
Be 313.042†	282722.2	0.5142	mg/L	0.00268	0.5142	mg/L	0.00268	0.52%
Ca 317.933†	2179740.1	150.1	mg/L	0.63	150.1	mg/L	0.63	0.42%
Cd 228.802†	11441.9	0.5292	mg/L	0.00174	0.5292	mg/L	0.00174	0.33%
Co 228.616†	14999.1	0.4972	mg/L	0.00182	0.4972	mg/L	0.00182	0.37%
Cr 267.716†	2677.0	0.5124	mg/L	0.00253	0.5124	mg/L	0.00253	0.49%
Cu 324.752†	149644.5	0.5360	mg/L	0.00490	0.5360	mg/L	0.00490	0.91%
Fe 273.955†	2659.7	2.323	mg/L	0.0089	2.323	mg/L	0.0089	0.38%
K 766.490†	31158.1	21.44	mg/L	0.171	21.44	mg/L	0.171	0.80%
Mg 279.077†	40906.8	43.57	mg/L	0.217	43.57	mg/L	0.217	0.50%
Mn 257.610†	19017.1	0.6036	mg/L	0.00360	0.6036	mg/L	0.00360	0.60%
Mo 202.031†	130.8	0.00501	mg/L	0.000463	0.00501	mg/L	0.000463	9.24%
Na 589.592†	606915.5	51.14	mg/L	0.256	51.14	mg/L	0.256	0.50%
Na 330.237†	1529.3	53.33	mg/L	0.150	53.33	mg/L	0.150	0.28%
Ni 231.604†	842.3	0.5203	mg/L	0.00404	0.5203	mg/L	0.00404	0.78%
Pb 220.353†	14026.9	2.034	mg/L	0.0140	2.034	mg/L	0.0140	0.69%
Sb 206.836†	27.0	0.00618	mg/L	0.002049	0.00618	mg/L	0.002049	33.13%
Se 196.026†	2636.7	2.205	mg/L	0.0120	2.205	mg/L	0.0120	0.54%
Si 288.158†	31719.8	21.48	mg/L	0.101	21.48	mg/L	0.101	0.47%
Sn 189.927†	-62.7	-0.01010	mg/L	0.000790	-0.01010	mg/L	0.000790	7.82%
Sr 421.552†	683046.2	1.080	mg/L	0.0094	1.080	mg/L	0.0094	0.87%
Ti 334.903†	250.8	0.00196	mg/L	0.000365	0.00196	mg/L	0.000365	18.63%
Tl 190.801†	3617.7	2.102	mg/L	0.0110	2.102	mg/L	0.0110	0.52%
V 292.402†	51531.0	0.5260	mg/L	0.00481	0.5260	mg/L	0.00481	0.91%
Zn 206.200†	392.2	0.6325	mg/L	0.00951	0.6325	mg/L	0.00951	1.50%

Sequence No.: 10
 Sample ID: RG30 MB1SPK TWC
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 321
 Date Collected: 8/6/2010 11:31:15 AM
 Data Type: Original

Nebulizer Parameters: RG30 MB1SPK TWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RG30 MB1SPK TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1920114.0	101.0	%	0.59				0.59%
ScR 361.383	296714.4	101.4	%	0.59				0.59%
Ag 328.068†	90837.1	0.5244	mg/L	0.00282	0.5244	mg/L	0.00282	0.54%
Al 308.215†	2646.6	2.079	mg/L	0.0039	2.079	mg/L	0.0039	0.19%
As 188.979†	2869.6	2.079	mg/L	0.0200	2.079	mg/L	0.0200	0.96%
B 249.677†	-5.0	-0.00278	mg/L	0.001174	-0.00278	mg/L	0.001174	42.15%
Ba 233.527†	6454.5	1.936	mg/L	0.0132	1.936	mg/L	0.0132	0.68%
Be 313.042†	272778.9	0.4961	mg/L	0.00029	0.4961	mg/L	0.00029	0.06%
Ca 317.933†	145477.2	10.02	mg/L	0.016	10.02	mg/L	0.016	0.16%
Cd 228.802†	11153.2	0.5161	mg/L	0.00476	0.5161	mg/L	0.00476	0.92%
Co 228.616†	15150.6	0.5024	mg/L	0.00435	0.5024	mg/L	0.00435	0.87%
Cr 267.716†	2511.6	0.4873	mg/L	0.00212	0.4873	mg/L	0.00212	0.43%
Cu 324.752†	141736.5	0.5084	mg/L	0.00274	0.5084	mg/L	0.00274	0.54%
Fe 273.955†	2400.2	2.096	mg/L	0.0100	2.096	mg/L	0.0100	0.48%
K 766.490†	14781.2	10.17	mg/L	0.041	10.17	mg/L	0.041	0.40%
Mg 279.077†	9471.9	10.09	mg/L	0.023	10.09	mg/L	0.023	0.23%
Mn 257.610†	14602.3	0.4639	mg/L	0.00237	0.4639	mg/L	0.00237	0.51%
Mo 202.031†	22.4	0.00113	mg/L	0.000212	0.00113	mg/L	0.000212	18.83%
Na 589.592†	117733.8	9.921	mg/L	0.0256	9.921	mg/L	0.0256	0.26%
Na 330.237†	315.0	10.77	mg/L	0.109	10.77	mg/L	0.109	1.01%
Ni 231.604†	812.8	0.5020	mg/L	0.00443	0.5020	mg/L	0.00443	0.88%
Pb 220.353†	14288.0	2.072	mg/L	0.0191	2.072	mg/L	0.0191	0.92%
Sb 206.836†	12.9	0.00138	mg/L	0.001607	0.00138	mg/L	0.001607	116.33%
Se 196.026†	2468.0	2.072	mg/L	0.0183	2.072	mg/L	0.0183	0.88%
Si 288.158†	80.2	0.05615	mg/L	0.019761	0.05615	mg/L	0.019761	35.19%
Sn 189.927†	-7.0	-0.00145	mg/L	0.000475	-0.00145	mg/L	0.000475	32.84%
Sr 421.552†	320350.8	0.5066	mg/L	0.00126	0.5066	mg/L	0.00126	0.25%
Ti 334.903†	14.1	-0.00007	mg/L	0.000413	-0.00007	mg/L	0.000413	557.48%
Tl 190.801†	3565.0	2.071	mg/L	0.0123	2.071	mg/L	0.0123	0.59%
V 292.402†	49997.1	0.5103	mg/L	0.00183	0.5103	mg/L	0.00183	0.36%
Zn 206.200†	310.5	0.5007	mg/L	0.00127	0.5007	mg/L	0.00127	0.25%

Sequence No.: 11
 Sample ID: CV
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/6/2010 11:35:26 AM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1927229.0	101.3 %	0.87			0.86%
ScR 361.383	292127.1	99.81 %	1.239			1.24%
Ag 328.068†	181866.3	1.050 mg/L	0.0073	1.050 mg/L	0.0073	0.69%
Al 308.215†	2735.0	2.126 mg/L	0.0248	2.126 mg/L	0.0248	1.17%
As 188.979†	2877.8	2.102 mg/L	0.0209	2.102 mg/L	0.0209	0.99%
B 249.677†	3368.8	1.016 mg/L	0.0139	1.016 mg/L	0.0139	1.37%
Ba 233.527†	3274.0	0.9814 mg/L	0.01376	0.9814 mg/L	0.01376	1.40%
Be 313.042†	548462.7	0.9976 mg/L	0.00966	0.9976 mg/L	0.00966	0.97%
Ca 317.933†	31037.5	2.138 mg/L	0.0291	2.138 mg/L	0.0291	1.36%
Cd 228.802†	22398.8	1.043 mg/L	0.0110	1.043 mg/L	0.0110	1.05%
Co 228.616†	30606.6	1.014 mg/L	0.0109	1.014 mg/L	0.0109	1.08%
Cr 267.716†	5094.0	0.9908 mg/L	0.01587	0.9908 mg/L	0.01587	1.60%
Cu 324.752†	291088.8	1.043 mg/L	0.0066	1.043 mg/L	0.0066	0.64%
Fe 273.955†	2384.5	2.080 mg/L	0.0255	2.080 mg/L	0.0255	1.23%
K 766.490†	30157.9	20.75 mg/L	0.056	20.75 mg/L	0.056	0.27%
Mg 279.077†	1970.5	2.105 mg/L	0.0364	2.105 mg/L	0.0364	1.73%
Mn 257.610†	30032.1	0.9535 mg/L	0.01080	0.9535 mg/L	0.01080	1.13%
Mo 202.031†	17729.9	1.031 mg/L	0.0105	1.031 mg/L	0.0105	1.02%
Na 589.592†	596775.7	50.29 mg/L	0.497	50.29 mg/L	0.497	0.99%
Na 330.237†	1554.3	53.49 mg/L	1.067	53.49 mg/L	1.067	1.99%
Ni 231.604†	1670.1	1.033 mg/L	0.0119	1.033 mg/L	0.0119	1.16%
Pb 220.353†	14380.9	2.086 mg/L	0.0236	2.086 mg/L	0.0236	1.13%
Sb 206.836†	5741.6	2.145 mg/L	0.0258	2.145 mg/L	0.0258	1.20%
Se 196.026†	2514.0	2.111 mg/L	0.0213	2.111 mg/L	0.0213	1.01%
Si 288.158†	3266.1	2.215 mg/L	0.0241	2.215 mg/L	0.0241	1.09%
Sn 189.927†	3836.3	1.045 mg/L	0.0098	1.045 mg/L	0.0098	0.94%
Sr 421.552†	649413.3	1.027 mg/L	0.0022	1.027 mg/L	0.0022	0.21%
Ti 334.903†	22709.9	1.033 mg/L	0.0141	1.033 mg/L	0.0141	1.37%
Tl 190.801†	3568.3	2.075 mg/L	0.0239	2.075 mg/L	0.0239	1.15%
V 292.402†	100016.6	1.021 mg/L	0.0059	1.021 mg/L	0.0059	0.58%
Zn 206.200†	640.0	1.032 mg/L	0.0155	1.032 mg/L	0.0155	1.50%

Sequence No.: 12
Sample ID: CB
Analyst: ALA
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/6/2010 11:39:39 AM
Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 200.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1935242.1	101.8	%	0.73			0.72%
ScR 361.383	277577.8	94.84	%	0.280			0.30%
Ag 328.068†	-5.5	-0.00003	mg/L	0.000083	-0.00003 mg/L	0.000083	262.61%
Al 308.215†	-6.5	-0.00514	mg/L	0.001615	-0.00514 mg/L	0.001615	31.42%
As 188.979†	0.8	0.00057	mg/L	0.001529	0.00057 mg/L	0.001529	266.94%
B 249.677†	-1.3	-0.00039	mg/L	0.001785	-0.00039 mg/L	0.001785	461.46%
Ba 233.527†	4.8	0.00145	mg/L	0.000990	0.00145 mg/L	0.000990	68.16%
Be 313.042†	91.9	0.00017	mg/L	0.000057	0.00017 mg/L	0.000057	33.86%
Ca 317.933†	11.0	0.00076	mg/L	0.000463	0.00076 mg/L	0.000463	61.09%
Cd 228.802†	2.2	0.00010	mg/L	0.000142	0.00010 mg/L	0.000142	139.01%
Co 228.616†	4.9	0.00016	mg/L	0.000115	0.00016 mg/L	0.000115	70.94%
Cr 267.716†	-1.4	-0.00026	mg/L	0.001017	-0.00026 mg/L	0.001017	386.71%
Cu 324.752†	149.5	0.00054	mg/L	0.000297	0.00054 mg/L	0.000297	55.41%
Fe 273.955†	0.7	0.00064	mg/L	0.003288	0.00064 mg/L	0.003288	515.24%
K 766.490†	89.5	0.06156	mg/L	0.027133	0.06156 mg/L	0.027133	44.08%
Mg 279.077†	-3.3	-0.00352	mg/L	0.001964	-0.00352 mg/L	0.001964	55.76%
Mn 257.610†	-1.7	-0.00005	mg/L	0.000052	-0.00005 mg/L	0.000052	95.88%
Mo 202.031†	0.7	0.00004	mg/L	0.000236	0.00004 mg/L	0.000236	617.34%
Na 589.592†	93.2	0.00785	mg/L	0.003526	0.00785 mg/L	0.003526	44.92%
Na 330.237†	-1.3	-0.04371	mg/L	0.189833	-0.04371 mg/L	0.189833	434.26%
Ni 231.604†	4.6	0.00283	mg/L	0.000364	0.00283 mg/L	0.000364	12.89%
Pb 220.353†	-2.9	-0.00042	mg/L	0.000559	-0.00042 mg/L	0.000559	134.02%
Sb 206.836†	4.9	0.00184	mg/L	0.001181	0.00184 mg/L	0.001181	64.29%
Se 196.026†	0.6	0.00054	mg/L	0.002971	0.00054 mg/L	0.002971	545.37%
Si 288.158†	32.2	0.02180	mg/L	0.004344	0.02180 mg/L	0.004344	19.93%
Sn 189.927†	2.8	0.00076	mg/L	0.000636	0.00076 mg/L	0.000636	83.97%
Sr 421.552†	43.5	0.00007	mg/L	0.000112	0.00007 mg/L	0.000112	162.42%
Ti 334.903†	-0.1	-0.00001	mg/L	0.000492	-0.00001 mg/L	0.000492	>999.9%
Tl 190.801†	2.6	0.00151	mg/L	0.000633	0.00151 mg/L	0.000633	41.95%
V 292.402†	2.3	0.00002	mg/L	0.000155	0.00002 mg/L	0.000155	701.58%
Zn 206.200†	0.1	0.00016	mg/L	0.003070	0.00016 mg/L	0.003070	>999.9%

Sequence No.: 13
 Sample ID: RF71 MB1 SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 304
 Date Collected: 8/6/2010 11:43:35 AM
 Data Type: Original

Nebulizer Parameters: RF71 MB1 SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RF71 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1930856.3	101.5 %	%	1.51			1.48%
ScR 361.383	294341.3	100.6 %	%	2.39			2.38%
Ag 328.068†	18.5	0.00011 mg/L	mg/L	0.000332	0.00021 mg/L	0.000664	310.59%
Al 308.215†	6.6	0.00522 mg/L	mg/L	0.004598	0.01044 mg/L	0.009196	88.13%
As 188.979†	1.6	0.00115 mg/L	mg/L	0.003047	0.00230 mg/L	0.006094	265.05%
B 249.677†	-6.5	-0.00195 mg/L	mg/L	0.000605	-0.00390 mg/L	0.001210	31.05%
Ba 233.527†	3.5	0.00103 mg/L	mg/L	0.000191	0.00207 mg/L	0.000382	18.45%
Be 313.042†	18.9	0.00003 mg/L	mg/L	0.000064	0.00007 mg/L	0.000127	185.21%
Ca 317.933†	198.0	0.01364 mg/L	mg/L	0.002249	0.02727 mg/L	0.004497	16.49%
Cd 228.802†	0.5	0.00002 mg/L	mg/L	0.000247	0.00004 mg/L	0.000494	>999.9%
Co 228.616†	-1.3	-0.00005 mg/L	mg/L	0.000165	-0.00009 mg/L	0.000330	362.13%
Cr 267.716†	2.6	0.00050 mg/L	mg/L	0.000724	0.00100 mg/L	0.001448	144.59%
Cu 324.752†	212.7	0.00076 mg/L	mg/L	0.000240	0.00152 mg/L	0.000480	31.50%
Fe 273.955†	-0.3	-0.00024 mg/L	mg/L	0.002398	-0.00047 mg/L	0.004795	>999.9%
K 766.490†	28.9	0.01987 mg/L	mg/L	0.011694	0.03975 mg/L	0.023388	58.84%
Mg 279.077†	8.9	0.00946 mg/L	mg/L	0.000841	0.01892 mg/L	0.001681	8.88%
Mn 257.610†	-2.5	-0.00008 mg/L	mg/L	0.000060	-0.00016 mg/L	0.000119	75.22%
Mo 202.031†	-0.0	0.00000 mg/L	mg/L	0.000315	-0.00001 mg/L	0.000631	>999.9%
Na 589.592†	75.3	0.00635 mg/L	mg/L	0.004026	0.01270 mg/L	0.008051	63.41%
Na 330.237†	-1.4	-0.04929 mg/L	mg/L	0.246166	-0.09859 mg/L	0.492333	499.40%
Ni 231.604†	6.8	0.00418 mg/L	mg/L	0.001147	0.00837 mg/L	0.002294	27.42%
Pb 220.353†	0.1	0.00001 mg/L	mg/L	0.000547	0.00003 mg/L	0.001094	>999.9%
Sb 206.836†	0.6	0.00025 mg/L	mg/L	0.002819	0.00050 mg/L	0.005639	>999.9%
Se 196.026†	7.1	0.00598 mg/L	mg/L	0.002433	0.01196 mg/L	0.004867	40.70%
Si 288.158†	25.8	0.01748 mg/L	mg/L	0.002732	0.03496 mg/L	0.005464	15.63%
Sn 189.927†	4.1	0.00112 mg/L	mg/L	0.000406	0.00224 mg/L	0.000813	36.35%
Sr 421.552†	-0.9	0.00000 mg/L	mg/L	0.000018	0.00000 mg/L	0.000036	>999.9%
Ti 334.903†	24.4	0.00111 mg/L	mg/L	0.000844	0.00222 mg/L	0.001689	75.94%
Tl 190.801†	2.6	0.00150 mg/L	mg/L	0.002423	0.00301 mg/L	0.004846	161.23%
V 292.402†	11.8	0.00012 mg/L	mg/L	0.000214	0.00024 mg/L	0.000427	176.71%
Zn 206.200†	-0.4	-0.00064 mg/L	mg/L	0.001942	-0.00128 mg/L	0.003884	302.92%

Sequence No.: 14
 Sample ID: RG11 MB1 SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 305
 Date Collected: 8/6/2010 11:47:47 AM
 Data Type: Original

Nebulizer Parameters: RG11 MB1 SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RG11 MB1 SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1945686.8		102.3 %	0.49				0.48%
ScR 361.383	276052.4		94.32 %	0.327				0.35%
Ag 328.068†	22.8	0.00013	mg/L	0.000321	0.00026	mg/L	0.000641	243.63%
Al 308.215†	-3.2	-0.00255	mg/L	0.000838	-0.00510	mg/L	0.001677	32.88%
As 188.979†	-2.5	-0.00178	mg/L	0.001661	-0.00356	mg/L	0.003322	93.38%
B 249.677†	-12.9	-0.00389	mg/L	0.000160	-0.00777	mg/L	0.000320	4.12%
Ba 233.527†	1.5	0.00045	mg/L	0.000863	0.00089	mg/L	0.001726	193.08%
Be 313.042†	58.5	0.00011	mg/L	0.000028	0.00021	mg/L	0.000056	26.41%
Ca 317.933†	156.4	0.01077	mg/L	0.000134	0.02154	mg/L	0.000268	1.25%
Cd 228.802†	-2.5	-0.00011	mg/L	0.000169	-0.00022	mg/L	0.000338	154.15%
Co 228.616†	-3.3	-0.00011	mg/L	0.000181	-0.00022	mg/L	0.000361	163.99%
Cr 267.716†	2.2	0.00043	mg/L	0.001366	0.00086	mg/L	0.002733	318.08%
Cu 324.752†	129.8	0.00047	mg/L	0.000261	0.00093	mg/L	0.000522	56.06%
Fe 273.955†	0.7	0.00061	mg/L	0.003538	0.00122	mg/L	0.007076	581.31%
K 766.490†	80.5	0.05540	mg/L	0.031287	0.1108	mg/L	0.06257	56.47%
Mg 279.077†	0.9	0.00093	mg/L	0.003559	0.00186	mg/L	0.007117	381.84%
Mn 257.610†	-1.0	-0.00003	mg/L	0.000084	-0.00006	mg/L	0.000168	276.31%
Mo 202.031†	-1.3	-0.00008	mg/L	0.000269	-0.00015	mg/L	0.000538	349.24%
Na 589.592†	44.9	0.00378	mg/L	0.003732	0.00757	mg/L	0.007464	98.61%
Na 330.237†	-12.8	-0.4403	mg/L	0.38070	-0.8806	mg/L	0.76140	86.46%
Ni 231.604†	4.1	0.00255	mg/L	0.003254	0.00511	mg/L	0.006509	127.38%
Pb 220.353†	-0.8	-0.00011	mg/L	0.000971	-0.00023	mg/L	0.001942	852.11%
Sb 206.836†	-3.8	-0.00139	mg/L	0.000717	-0.00279	mg/L	0.001435	51.45%
Se 196.026†	3.7	0.00311	mg/L	0.005111	0.00623	mg/L	0.010222	164.18%
Si 288.158†	20.8	0.01410	mg/L	0.007360	0.02821	mg/L	0.014720	52.19%
Sn 189.927†	2.8	0.00075	mg/L	0.000352	0.00150	mg/L	0.000705	46.88%
Sr 421.552†	27.2	0.00004	mg/L	0.000071	0.00009	mg/L	0.000141	163.92%
Ti 334.903†	1.4	0.00006	mg/L	0.000450	0.00012	mg/L	0.000899	738.87%
Tl 190.801†	4.5	0.00262	mg/L	0.002572	0.00524	mg/L	0.005143	98.21%
V 292.402†	-15.1	-0.00015	mg/L	0.000503	-0.00030	mg/L	0.001007	330.98%
Zn 206.200†	1.9	0.00303	mg/L	0.001717	0.00607	mg/L	0.003434	56.59%

Sequence No.: 15
 Sample ID: RG11 A SWC
 Analyst: ALA
 Dilution: 5X

Autosampler Location: 306
 Date Collected: 8/6/2010 11:51:43 AM
 Data Type: Original

Nebulizer Parameters: RG11 A SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RG11 A SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1965228.8	103.3	%	0.99			0.96%
ScR 361.383	301199.1	102.9	%	1.58			1.54%
Ag 328.068†	126.8	0.00058	mg/L	0.000118	0.00289 mg/L	0.000592	20.49%
Al 308.215†	50513.5	39.84	mg/L	0.720	199.2 mg/L	3.60	1.81%
As 188.979†	-45.5	0.01962	mg/L	0.004217	0.09808 mg/L	0.021083	21.50%
B 249.677†	138.4	0.04184	mg/L	0.001239	0.2092 mg/L	0.00620	2.96%
Ba 233.527†	988.1	0.2856	mg/L	0.00468	1.428 mg/L	0.0234	1.64%
Be 313.042†	298.5	0.00041	mg/L	0.000040	0.00207 mg/L	0.000198	9.58%
Ca 317.933†	456985.0	31.47	mg/L	0.501	157.4 mg/L	2.51	1.59%
Cd 228.802†	9.5	0.00270	mg/L	0.000067	0.01349 mg/L	0.000337	2.50%
Co 228.616†	2183.9	0.06521	mg/L	0.001153	0.3260 mg/L	0.00576	1.77%
Cr 267.716†	14717.5	2.866	mg/L	0.0613	14.33 mg/L	0.307	2.14%
Cu 324.752†	1241346.7	4.458	mg/L	0.0608	22.29 mg/L	0.304	1.36%
Fe 273.955†	125770.9	110.0	mg/L	1.94	550.0 mg/L	9.69	1.76%
K 766.490†	3195.1	2.199	mg/L	0.0296	10.99 mg/L	0.148	1.34%
Mg 279.077†	20155.2	21.42	mg/L	0.425	107.1 mg/L	2.13	1.99%
Mn 257.610†	43397.6	1.377	mg/L	0.0272	6.887 mg/L	0.1360	1.97%
Mo 202.031†	4446.6	0.2581	mg/L	0.00329	1.291 mg/L	0.0165	1.27%
Na 589.592†	15814.7	1.333	mg/L	0.0251	6.663 mg/L	0.1257	1.89%
Na 330.237†	12.0	1.241	mg/L	0.1208	6.205 mg/L	0.6042	9.74%
Ni 231.604†	5354.1	3.307	mg/L	0.0546	16.53 mg/L	0.273	1.65%
Pb 220.353†	930.7	0.1341	mg/L	0.00142	0.6703 mg/L	0.00712	1.06%
Sb 206.836†	96.4	0.01148	mg/L	0.000426	0.05739 mg/L	0.002128	3.71%
Se 196.026†	29.7	0.02278	mg/L	0.003318	0.1139 mg/L	0.01659	14.56%
Si 288.158†	1411.9	0.9560	mg/L	0.01663	4.780 mg/L	0.0831	1.74%
Sn 189.927†	62.9	0.02002	mg/L	0.000878	0.1001 mg/L	0.00439	4.38%
Sr 421.552†	74377.5	0.1176	mg/L	0.00225	0.5881 mg/L	0.01123	1.91%
Ti 334.903†	69041.2	3.141	mg/L	0.0558	15.71 mg/L	0.279	1.78%
Tl 190.801†	-18.7	0.00645	mg/L	0.000723	0.03227 mg/L	0.003617	11.21%
V 292.402†	17957.4	0.1813	mg/L	0.00132	0.9065 mg/L	0.00658	0.73%
Zn 206.200†	590.1	0.9498	mg/L	0.01146	4.749 mg/L	0.0573	1.21%

Sequence No.: 16
 Sample ID: RF71 ADUP SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 307
 Date Collected: 8/6/2010 11:55:40 AM
 Data Type: Original

Nebulizer Parameters: RF71 ADUP SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RF71 ADUP SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1965799.5	103.4	%	0.39			0.38%
ScR 361.383	301290.6	102.9	%	0.71			0.69%
Ag 328.068†	44.9	0.00015	mg/L	0.000355	0.00029 mg/L	0.000711	241.50%
Al 308.215†	146723.6	115.7	mg/L	0.90	231.5 mg/L	1.79	0.78%
As 188.979†	-54.9	0.05757	mg/L	0.002747	0.1151 mg/L	0.00549	4.77%
B 249.677†	230.9	0.06957	mg/L	0.000947	0.1391 mg/L	0.00189	1.36%
Ba 233.527†	1003.7	0.2848	mg/L	0.00229	0.5695 mg/L	0.00458	0.80%
Be 313.042†	1042.6	0.00166	mg/L	0.000055	0.00331 mg/L	0.000110	3.32%
Ca 317.933†	439281.8	30.25	mg/L	0.245	60.51 mg/L	0.490	0.81%
Cd 228.802†	87.7	0.00442	mg/L	0.000047	0.00884 mg/L	0.000095	1.08%
Co 228.616†	2382.3	0.06763	mg/L	0.000671	0.1353 mg/L	0.00134	0.99%
Cr 267.716†	1369.7	0.2663	mg/L	0.00234	0.5326 mg/L	0.00468	0.88%
Cu 324.752†	90685.3	0.3343	mg/L	0.00383	0.6685 mg/L	0.00767	1.15%
Fe 273.955†	197419.3	172.7	mg/L	0.89	345.3 mg/L	1.78	0.52%
K 766.490†	14412.9	9.918	mg/L	0.0260	19.84 mg/L	0.052	0.26%
Mg 279.077†	55433.9	58.97	mg/L	0.254	117.9 mg/L	0.51	0.43%
Mn 257.610†	61123.6	1.940	mg/L	0.0155	3.880 mg/L	0.0310	0.80%
Mo 202.031†	189.5	0.01050	mg/L	0.000228	0.02100 mg/L	0.000456	2.17%
Na 589.592†	198536.5	16.73	mg/L	0.132	33.46 mg/L	0.264	0.79%
Na 330.237†	465.2	17.53	mg/L	0.310	35.06 mg/L	0.620	1.77%
Ni 231.604†	454.6	0.2808	mg/L	0.00313	0.5615 mg/L	0.00627	1.12%
Pb 220.353†	946.5	0.1449	mg/L	0.00084	0.2897 mg/L	0.00168	0.58%
Sb 206.836†	25.5	0.01491	mg/L	0.000969	0.02981 mg/L	0.001937	6.50%
Se 196.026†	32.5	0.02527	mg/L	0.005243	0.05053 mg/L	0.010486	20.75%
Si 288.158†	11300.5	7.652	mg/L	0.0644	15.30 mg/L	0.129	0.84%
Sn 189.927†	9.5	0.00648	mg/L	0.001192	0.01297 mg/L	0.002384	18.38%
Sr 421.552†	161675.1	0.2557	mg/L	0.00079	0.5113 mg/L	0.00159	0.31%
Ti 334.903†	119521.9	5.441	mg/L	0.0333	10.88 mg/L	0.067	0.61%
Tl 190.801†	-33.9	0.00733	mg/L	0.002841	0.01465 mg/L	0.005683	38.78%
V 292.402†	34359.5	0.3291	mg/L	0.00173	0.6583 mg/L	0.00346	0.53%
Zn 206.200†	378.5	0.6071	mg/L	0.00536	1.214 mg/L	0.0107	0.88%

Sequence No.: 17
 Sample ID: RF71 A SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 308
 Date Collected: 8/6/2010 11:59:36 AM
 Data Type: Original

Nebulizer Parameters: RF71 A SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RF71 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1951269.6	102.6	%	1.56			1.52%
ScR 361.383	304525.1	104.0	%	0.51			0.49%
Ag 328.068†	99.9	0.00049	mg/L	0.000351	0.00098	mg/L	0.000702 71.72%
Al 308.215†	155423.3	122.6	mg/L	1.02	245.2	mg/L	2.05 0.84%
As 188.979†	-67.4	0.05807	mg/L	0.006236	0.1161	mg/L	0.01247 10.74%
B 249.677†	265.4	0.07997	mg/L	0.001479	0.1599	mg/L	0.00296 1.85%
Ba 233.527†	1062.5	0.3017	mg/L	0.00211	0.6034	mg/L	0.00422 0.70%
Be 313.042†	1376.0	0.00223	mg/L	0.000035	0.00447	mg/L	0.000069 1.55%
Ca 317.933†	471352.8	32.46	mg/L	0.297	64.92	mg/L	0.594 0.92%
Cd 228.802†	109.1	0.00546	mg/L	0.000334	0.01092	mg/L	0.000669 6.13%
Co 228.616†	2591.8	0.07359	mg/L	0.001465	0.1472	mg/L	0.00293 1.99%
Cr 267.716†	1470.0	0.2856	mg/L	0.00184	0.5712	mg/L	0.00367 0.64%
Cu 324.752†	94601.0	0.3485	mg/L	0.00243	0.6971	mg/L	0.00487 0.70%
Fe 273.955†	205677.9	179.9	mg/L	1.76	359.8	mg/L	3.52 0.98%
K 766.490†	15050.8	10.36	mg/L	0.084	20.71	mg/L	0.169 0.81%
Mg 279.077†	59157.0	62.94	mg/L	0.607	125.9	mg/L	1.21 0.96%
Mn 257.610†	61771.7	1.960	mg/L	0.0190	3.921	mg/L	0.0381 0.97%
Mo 202.031†	208.2	0.01155	mg/L	0.000034	0.02310	mg/L	0.000068 0.30%
Na 589.592†	203278.3	17.13	mg/L	0.141	34.26	mg/L	0.281 0.82%
Na 330.237†	474.2	17.99	mg/L	0.103	35.98	mg/L	0.206 0.57%
Ni 231.604†	474.4	0.2930	mg/L	0.00290	0.5860	mg/L	0.00581 0.99%
Pb 220.353†	1020.6	0.1563	mg/L	0.00242	0.3126	mg/L	0.00484 1.55%
Sb 206.836†	47.4	0.02371	mg/L	0.005055	0.04743	mg/L	0.010110 21.32%
Se 196.026†	47.2	0.03743	mg/L	0.011463	0.07485	mg/L	0.022926 30.63%
Si 288.158†	11425.1	7.737	mg/L	0.0627	15.47	mg/L	0.125 0.81%
Sn 189.927†	19.5	0.00954	mg/L	0.000586	0.01909	mg/L	0.001172 6.14%
Sr 421.552†	169030.4	0.2673	mg/L	0.00306	0.5346	mg/L	0.00612 1.14%
Ti 334.903†	131243.0	5.975	mg/L	0.0545	11.95	mg/L	0.109 0.91%
Tl 190.801†	-35.8	0.00727	mg/L	0.004061	0.01454	mg/L	0.008123 55.88%
V 292.402†	38841.7	0.3737	mg/L	0.00172	0.7474	mg/L	0.00345 0.46%
Zn 206.200†	394.4	0.6327	mg/L	0.00978	1.265	mg/L	0.0196 1.55%

Sequence No.: 18
 Sample ID: RF71 ASPK SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 309
 Date Collected: 8/6/2010 12:03:32 PM
 Data Type: Original

Nebulizer Parameters: RF71 ASPK SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RF71 ASPK SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
ScA 357.253	1921574.6	101.0	%	0.85			0.84%
ScR 361.383	301838.7	103.1	%	0.28			0.27%
Ag 328.068†	87839.2	0.5070	mg/L	0.00381	1.014 mg/L	0.0076	0.75%
Al 308.215†	156663.8	123.6	mg/L	0.79	247.2 mg/L	1.58	0.64%
As 188.979†	2798.2	2.134	mg/L	0.0274	4.267 mg/L	0.0548	1.28%
B 249.677†	275.4	0.08176	mg/L	0.002280	0.1635 mg/L	0.00456	2.79%
Ba 233.527†	7392.3	2.200	mg/L	0.0021	4.400 mg/L	0.0041	0.09%
Be 313.042†	271853.9	0.4942	mg/L	0.00197	0.9884 mg/L	0.00393	0.40%
Ca 317.933†	634390.1	43.69	mg/L	0.141	87.38 mg/L	0.282	0.32%
Cd 228.802†	11470.9	0.5313	mg/L	0.00477	1.063 mg/L	0.0095	0.90%
Co 228.616†	17467.0	0.5669	mg/L	0.00528	1.134 mg/L	0.0106	0.93%
Cr 267.716†	3931.4	0.7633	mg/L	0.00324	1.527 mg/L	0.0065	0.42%
Cu 324.752†	235767.2	0.8548	mg/L	0.00824	1.710 mg/L	0.0165	0.96%
Fe 273.955†	205520.5	179.7	mg/L	0.58	359.5 mg/L	1.16	0.32%
K 766.490†	29597.1	20.37	mg/L	0.243	40.73 mg/L	0.485	1.19%
Mg 279.077†	66737.6	71.01	mg/L	0.240	142.0 mg/L	0.48	0.34%
Mn 257.610†	74257.5	2.357	mg/L	0.0045	4.714 mg/L	0.0091	0.19%
Mo 202.031†	226.3	0.01241	mg/L	0.000139	0.02482 mg/L	0.000279	1.12%
Na 589.592†	326351.1	27.50	mg/L	0.097	55.00 mg/L	0.194	0.35%
Na 330.237†	791.4	28.84	mg/L	0.084	57.68 mg/L	0.169	0.29%
Ni 231.604†	1242.2	0.7675	mg/L	0.00077	1.535 mg/L	0.0015	0.10%
Pb 220.353†	14929.9	2.173	mg/L	0.0200	4.347 mg/L	0.0400	0.92%
Sb 206.836†	1056.2	0.3960	mg/L	0.00637	0.7920 mg/L	0.01275	1.61%
Se 196.026†	2557.1	2.145	mg/L	0.0271	4.290 mg/L	0.0542	1.26%
Si 288.158†	11582.1	7.845	mg/L	0.0105	15.69 mg/L	0.021	0.13%
Sn 189.927†	0.8	0.00520	mg/L	0.000525	0.01039 mg/L	0.001050	10.10%
Sr 421.552†	493651.6	0.7807	mg/L	0.00505	1.561 mg/L	0.0101	0.65%
Ti 334.903†	130521.7	5.941	mg/L	0.0193	11.88 mg/L	0.039	0.33%
Tl 190.801†	3385.7	1.995	mg/L	0.0261	3.990 mg/L	0.0523	1.31%
V 292.402†	85384.5	0.8491	mg/L	0.00779	1.698 mg/L	0.0156	0.92%
Zn 206.200†	702.5	1.129	mg/L	0.0035	2.259 mg/L	0.0071	0.31%

Sequence No.: 19

Sample ID: RF71 APOST SWC

Analyst: ALA

Dilution: 2X

Autosampler Location: 310

Date Collected: 8/6/2010 12:07:15 PM

Data Type: Original

Nebulizer Parameters: RF71 APOST SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RF71 APOST SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD	
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	1974501.7	103.8	%	1.41			1.36%	
ScR 361.383	301567.4	103.0	%	0.93			0.90%	
Ag 328.068†	698.8	0.00394	mg/L	0.000029	0.00789	mg/L	0.000058	0.74%
Al 308.215†	159018.3	125.4	mg/L	1.39	250.9	mg/L	2.77	1.10%
As 188.979†	-49.1	0.07356	mg/L	0.005336	0.1471	mg/L	0.01067	7.25%
B 249.677†	268.1	0.08077	mg/L	0.001926	0.1615	mg/L	0.00385	2.38%
Ba 233.527†	1130.4	0.3216	mg/L	0.00417	0.6433	mg/L	0.00834	1.30%
Be 313.042†	3145.4	0.00545	mg/L	0.000070	0.01090	mg/L	0.000139	1.28%
Ca 317.933†	482608.9	33.24	mg/L	0.396	66.47	mg/L	0.792	1.19%
Cd 228.802†	177.7	0.00864	mg/L	0.000165	0.01727	mg/L	0.000329	1.91%
Co 228.616†	2704.7	0.07706	mg/L	0.001367	0.1541	mg/L	0.00273	1.77%
Cr 267.716†	1522.7	0.2959	mg/L	0.00339	0.5918	mg/L	0.00678	1.15%
Cu 324.752†	95444.3	0.3518	mg/L	0.00355	0.7036	mg/L	0.00709	1.01%
Fe 273.955†	210875.6	184.4	mg/L	2.29	368.8	mg/L	4.58	1.24%
K 766.490†	15533.5	10.69	mg/L	0.091	21.38	mg/L	0.183	0.85%
Mg 279.077†	60515.2	64.38	mg/L	0.659	128.8	mg/L	1.32	1.02%
Mn 257.610†	63100.9	2.003	mg/L	0.0268	4.005	mg/L	0.0536	1.34%
Mo 202.031†	208.6	0.01156	mg/L	0.000079	0.02312	mg/L	0.000159	0.69%
Na 589.592†	207796.9	17.51	mg/L	0.191	35.02	mg/L	0.381	1.09%
Na 330.237†	494.7	18.73	mg/L	0.389	37.47	mg/L	0.777	2.07%
Ni 231.604†	490.1	0.3027	mg/L	0.00492	0.6054	mg/L	0.00983	1.62%
Pb 220.353†	1114.5	0.1701	mg/L	0.00230	0.3402	mg/L	0.00460	1.35%
Sb 206.836†	73.3	0.03344	mg/L	0.000590	0.06687	mg/L	0.001180	1.76%
Se 196.026†	59.8	0.04798	mg/L	0.003271	0.09595	mg/L	0.006543	6.82%
Si 288.158†	11774.4	7.973	mg/L	0.0828	15.95	mg/L	0.166	1.04%
Sn 189.927†	18.0	0.00924	mg/L	0.002102	0.01848	mg/L	0.004204	22.75%
Sr 421.552†	174957.1	0.2767	mg/L	0.00277	0.5534	mg/L	0.00554	1.00%
Ti 334.903†	134018.0	6.101	mg/L	0.0685	12.20	mg/L	0.137	1.12%
Tl 190.801†	-19.5	0.01744	mg/L	0.006935	0.03487	mg/L	0.013871	39.77%
V 292.402†	39135.4	0.3762	mg/L	0.00483	0.7524	mg/L	0.00966	1.28%
Zn 206.200†	406.7	0.6525	mg/L	0.01045	1.305	mg/L	0.0209	1.60%

Sequence No.: 20
 Sample ID: RF71 MB1SPK SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 311
 Date Collected: 8/6/2010 12:11:11 PM
 Data Type: Original

Nebulizer Parameters: RF71 MB1SPK SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RF71 MB1SPK SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1936953.2	101.9	%	0.36				0.35%
ScR 361.383	296974.4	101.5	%	0.34				0.34%
Ag 328.068†	94667.1	0.5465	mg/L	0.00113	1.093	mg/L	0.0023	0.21%
Al 308.215†	2756.3	2.165	mg/L	0.0060	4.330	mg/L	0.0121	0.28%
As 188.979†	2980.5	2.159	mg/L	0.0084	4.319	mg/L	0.0168	0.39%
B 249.677†	-6.2	-0.00319	mg/L	0.000867	-0.00638	mg/L	0.001734	27.17%
Ba 233.527†	6646.6	1.993	mg/L	0.0093	3.987	mg/L	0.0186	0.47%
Be 313.042†	281464.3	0.5119	mg/L	0.00259	1.024	mg/L	0.0052	0.51%
Ca 317.933†	150284.3	10.35	mg/L	0.035	20.70	mg/L	0.069	0.34%
Cd 228.802†	11542.9	0.5341	mg/L	0.00229	1.068	mg/L	0.0046	0.43%
Co 228.616†	15696.1	0.5204	mg/L	0.00204	1.041	mg/L	0.0041	0.39%
Cr 267.716†	2588.6	0.5022	mg/L	0.00216	1.004	mg/L	0.0043	0.43%
Cu 324.752†	141162.3	0.5063	mg/L	0.00141	1.013	mg/L	0.0028	0.28%
Fe 273.955†	2506.4	2.189	mg/L	0.0108	4.378	mg/L	0.0215	0.49%
K 766.490†	15322.3	10.54	mg/L	0.051	21.09	mg/L	0.102	0.48%
Mg 279.077†	9790.1	10.43	mg/L	0.029	20.86	mg/L	0.058	0.28%
Mn 257.610†	14938.9	0.4745	mg/L	0.00416	0.9491	mg/L	0.00833	0.88%
Mo 202.031†	22.6	0.00113	mg/L	0.000102	0.00227	mg/L	0.000204	8.98%
Na 589.592†	120351.1	10.14	mg/L	0.039	20.28	mg/L	0.078	0.38%
Na 330.237†	321.3	10.98	mg/L	0.154	21.96	mg/L	0.309	1.41%
Ni 231.604†	839.2	0.5199	mg/L	0.00423	1.040	mg/L	0.0085	0.81%
Pb 220.353†	14434.8	2.093	mg/L	0.0051	4.187	mg/L	0.0103	0.25%
Sb 206.836†	5917.5	2.201	mg/L	0.0061	4.402	mg/L	0.0122	0.28%
Se 196.026†	2587.9	2.173	mg/L	0.0081	4.346	mg/L	0.0163	0.37%
Si 288.158†	29.0	0.02153	mg/L	0.005758	0.04305	mg/L	0.011515	26.75%
Sn 189.927†	-13.1	-0.00168	mg/L	0.001289	-0.00336	mg/L	0.002579	76.73%
Sr 421.552†	332061.1	0.5251	mg/L	0.00378	1.050	mg/L	0.0076	0.72%
Ti 334.903†	62.5	0.00211	mg/L	0.000391	0.00422	mg/L	0.000781	18.52%
Tl 190.801†	3669.3	2.132	mg/L	0.0080	4.264	mg/L	0.0161	0.38%
V 292.402†	52237.2	0.5331	mg/L	0.00228	1.066	mg/L	0.0046	0.43%
Zn 206.200†	326.6	0.5267	mg/L	0.00359	1.053	mg/L	0.0072	0.68%

Sequence No.: 21
 Sample ID: RG11 MB1SPK SWC
 Analyst: ALA
 Dilution: 2X

Autosampler Location: 312
 Date Collected: 8/6/2010 12:15:22 PM
 Data Type: Original

Nebulizer Parameters: RG11 MB1SPK SWC

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: RG11 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1963065.4	103.2	%	1.44				1.40%
ScR 361.383	297173.7	101.5	%	2.63				2.60%
Ag 328.068†	92795.6	0.5357	mg/L	0.00815	1.071	mg/L	0.0163	1.52%
Al 308.215†	2714.1	2.132	mg/L	0.0563	4.263	mg/L	0.1126	2.64%
As 188.979†	2934.7	2.126	mg/L	0.0360	4.253	mg/L	0.0719	1.69%
B 249.677†	-5.1	-0.00282	mg/L	0.001698	-0.00564	mg/L	0.003396	60.21%
Ba 233.527†	6589.1	1.976	mg/L	0.0509	3.952	mg/L	0.1017	2.57%
Be 313.042†	280211.5	0.5097	mg/L	0.01414	1.019	mg/L	0.0283	2.77%
Ca 317.933†	149069.0	10.27	mg/L	0.286	20.53	mg/L	0.572	2.79%
Cd 228.802†	11332.0	0.5243	mg/L	0.00684	1.049	mg/L	0.0137	1.31%
Co 228.616†	15386.7	0.5102	mg/L	0.00712	1.020	mg/L	0.0142	1.40%
Cr 267.716†	2561.4	0.4970	mg/L	0.01077	0.9939	mg/L	0.02153	2.17%
Cu 324.752†	137625.4	0.4936	mg/L	0.00773	0.9873	mg/L	0.01546	1.57%
Fe 273.955†	2460.8	2.149	mg/L	0.0545	4.299	mg/L	0.1090	2.54%
K 766.490†	15240.6	10.49	mg/L	0.254	20.98	mg/L	0.508	2.42%
Mg 279.077†	9767.1	10.41	mg/L	0.221	20.81	mg/L	0.442	2.13%
Mn 257.610†	14863.0	0.4721	mg/L	0.00988	0.9443	mg/L	0.01976	2.09%
Mo 202.031†	18.9	0.00092	mg/L	0.000300	0.00184	mg/L	0.000599	32.54%
Na 589.592†	119784.2	10.09	mg/L	0.245	20.19	mg/L	0.489	2.42%
Na 330.237†	313.6	10.72	mg/L	0.258	21.44	mg/L	0.516	2.40%
Ni 231.604†	838.3	0.5178	mg/L	0.01232	1.036	mg/L	0.0246	2.38%
Pb 220.353†	14163.5	2.054	mg/L	0.0342	4.108	mg/L	0.0684	1.66%
Sb 206.836†	26.7	0.00644	mg/L	0.000894	0.01287	mg/L	0.001787	13.88%
Se 196.026†	2557.0	2.147	mg/L	0.0344	4.294	mg/L	0.0689	1.60%
Si 288.158†	16.1	0.01275	mg/L	0.007008	0.02551	mg/L	0.014015	54.95%
Sn 189.927†	-8.9	-0.00193	mg/L	0.000507	-0.00386	mg/L	0.001014	26.26%
Sr 421.552†	330006.0	0.5219	mg/L	0.01143	1.044	mg/L	0.0229	2.19%
Ti 334.903†	33.0	0.00077	mg/L	0.000817	0.00154	mg/L	0.001634	106.18%
Tl 190.801†	3594.3	2.088	mg/L	0.0388	4.177	mg/L	0.0775	1.86%
V 292.402†	50992.2	0.5204	mg/L	0.00834	1.041	mg/L	0.0167	1.60%
Zn 206.200†	318.8	0.5141	mg/L	0.01251	1.028	mg/L	0.0250	2.43%

Sequence No.: 22

Sample ID: RG11 MB1SPD *Sec*

Analyst: ALA

Dilution: 2X

429-10

Autosampler Location: 313

Date Collected: 8/6/2010 12:19:33 PM

Data Type: Original

Nebulizer Parameters: RG11 MB1SPD

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: RG11 MB1SPD

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1962901.1	103.2	%	0.97				0.94%
ScR 361.383	299966.7	102.5	%	1.16				1.13%
Ag 328.068†	92724.3	0.5353	mg/L	0.00239	1.071	mg/L	0.0048	0.45%
Al 308.215†	2699.5	2.120	mg/L	0.0187	4.240	mg/L	0.0374	0.88%
As 188.979†	2928.2	2.122	mg/L	0.0195	4.243	mg/L	0.0390	0.92%
B 249.677†	1.8	-0.00074	mg/L	0.001313	-0.00148	mg/L	0.002626	177.01%
Ba 233.527†	6530.5	1.958	mg/L	0.0182	3.917	mg/L	0.0364	0.93%
Be 313.042†	275484.7	0.5011	mg/L	0.00325	1.002	mg/L	0.0065	0.65%
Ca 317.933†	146736.5	10.11	mg/L	0.055	20.21	mg/L	0.111	0.55%
Cd 228.802†	11294.6	0.5225	mg/L	0.00468	1.045	mg/L	0.0094	0.89%
Co 228.616†	15335.5	0.5085	mg/L	0.00418	1.017	mg/L	0.0084	0.82%
Cr 267.716†	2548.0	0.4944	mg/L	0.00537	0.9887	mg/L	0.01074	1.09%
Cu 324.752†	138107.6	0.4954	mg/L	0.00890	0.9907	mg/L	0.01780	1.80%
Fe 273.955†	2457.4	2.146	mg/L	0.0197	4.293	mg/L	0.0393	0.92%
K 766.490†	15128.0	10.41	mg/L	0.137	20.82	mg/L	0.273	1.31%
Mg 279.077†	9610.8	10.24	mg/L	0.116	20.48	mg/L	0.233	1.14%
Mn 257.610†	14666.1	0.4659	mg/L	0.00710	0.9318	mg/L	0.01419	1.52%
Mo 202.031†	16.1	0.00076	mg/L	0.000125	0.00152	mg/L	0.000250	16.45%
Na 589.592†	118248.8	9.965	mg/L	0.0822	19.93	mg/L	0.164	0.83%
Na 330.237†	311.4	10.64	mg/L	0.129	21.29	mg/L	0.258	1.21%
Ni 231.604†	822.4	0.5080	mg/L	0.00486	1.016	mg/L	0.0097	0.96%
Pb 220.353†	14153.5	2.053	mg/L	0.0100	4.105	mg/L	0.0200	0.49%
Sb 206.836†	14.1	0.00177	mg/L	0.000403	0.00353	mg/L	0.000806	22.83%
Se 196.026†	2557.1	2.147	mg/L	0.0175	4.294	mg/L	0.0350	0.82%
Si 288.158†	11.6	0.00973	mg/L	0.007666	0.01947	mg/L	0.015331	78.75%
Sn 189.927†	-15.0	-0.00361	mg/L	0.000444	-0.00722	mg/L	0.000888	12.31%
Sr 421.552†	327395.5	0.5177	mg/L	0.00265	1.035	mg/L	0.0053	0.51%
Ti 334.903†	21.6	0.00026	mg/L	0.000585	0.00053	mg/L	0.001170	222.05%
Tl 190.801†	3600.5	2.092	mg/L	0.0157	4.184	mg/L	0.0313	0.75%
V 292.402†	50934.0	0.5198	mg/L	0.00302	1.040	mg/L	0.0060	0.58%
Zn 206.200†	316.6	0.5106	mg/L	0.00561	1.021	mg/L	0.0112	1.10%

Sequence No.: 23
 Sample ID: CV
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/6/2010 12:23:44 PM
 Data Type: Original

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 200.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1933980.8		101.7 %	0.33				0.32%
ScR 361.383	296410.3		101.3 %	1.02				1.00%
Ag 328.068†	183614.6		1.060 mg/L	0.0038	1.060 mg/L	0.0038		0.36%
Al 308.215†	2743.2		2.132 mg/L	0.0182	2.132 mg/L	0.0182		0.85%
As 188.979†	2919.5		2.133 mg/L	0.0107	2.133 mg/L	0.0107		0.50%
B 249.677†	3386.2		1.021 mg/L	0.0134	1.021 mg/L	0.0134		1.31%
Ba 233.527†	3285.4		0.9848 mg/L	0.01161	0.9848 mg/L	0.01161		1.18%
Be 313.042†	557170.4		1.013 mg/L	0.0051	1.013 mg/L	0.0051		0.50%
Ca 317.933†	30976.0		2.133 mg/L	0.0212	2.133 mg/L	0.0212		0.99%
Cd 228.802†	22892.0		1.067 mg/L	0.0054	1.067 mg/L	0.0054		0.51%
Co 228.616†	31402.6		1.040 mg/L	0.0041	1.040 mg/L	0.0041		0.40%
Cr 267.716†	5138.0		0.9994 mg/L	0.01089	0.9994 mg/L	0.01089		1.09%
Cu 324.752†	294046.6		1.054 mg/L	0.0055	1.054 mg/L	0.0055		0.52%
Fe 273.955†	2388.9		2.084 mg/L	0.0243	2.084 mg/L	0.0243		1.17%
K 766.490†	30443.7		20.95 mg/L	0.168	20.95 mg/L	0.168		0.80%
Mg 279.077†	1977.0		2.112 mg/L	0.0223	2.112 mg/L	0.0223		1.06%
Mn 257.610†	29890.7		0.9491 mg/L	0.01041	0.9491 mg/L	0.01041		1.10%
Mo 202.031†	17113.8		0.9955 mg/L	0.00147	0.9955 mg/L	0.00147		0.15%
Na 589.592†	599310.5		50.50 mg/L	0.279	50.50 mg/L	0.279		0.55%
Na 330.237†	1560.8		53.71 mg/L	0.500	53.71 mg/L	0.500		0.93%
Ni 231.604†	1684.7		1.042 mg/L	0.0069	1.042 mg/L	0.0069		0.66%
Pb 220.353†	14606.1		2.119 mg/L	0.0072	2.119 mg/L	0.0072		0.34%
Sb 206.836†	5800.3		2.167 mg/L	0.0092	2.167 mg/L	0.0092		0.42%
Se 196.026†	2536.1		2.130 mg/L	0.0101	2.130 mg/L	0.0101		0.47%
Si 288.158†	3245.5		2.201 mg/L	0.0229	2.201 mg/L	0.0229		1.04%
Sn 189.927†	3877.1		1.056 mg/L	0.0050	1.056 mg/L	0.0050		0.47%
Sr 421.552†	661933.9		1.047 mg/L	0.0068	1.047 mg/L	0.0068		0.65%
Ti 334.903†	22646.5		1.030 mg/L	0.0137	1.030 mg/L	0.0137		1.33%
Tl 190.801†	3618.6		2.104 mg/L	0.0067	2.104 mg/L	0.0067		0.32%
V 292.402†	101970.0		1.041 mg/L	0.0077	1.041 mg/L	0.0077		0.74%
Zn 206.200†	647.4		1.044 mg/L	0.0093	1.044 mg/L	0.0093		0.89%

Sequence No.: 24
 Sample ID: CB
 Analyst: ALA
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/6/2010 12:27:57 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	200.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1944308.2	102.2	%	0.36			0.35%
ScR 361.383	301689.0	103.1	%	1.39			1.35%
Ag 328.068†	-54.0	-0.00031	mg/L	0.000506	-0.00031 mg/L	0.000506	162.45%
Al 308.215†	1.5	0.00122	mg/L	0.001022	0.00122 mg/L	0.001022	83.94%
As 188.979†	-0.4	-0.00032	mg/L	0.001071	-0.00032 mg/L	0.001071	337.02%
B 249.677†	-2.3	-0.00068	mg/L	0.001529	-0.00068 mg/L	0.001529	224.75%
Ba 233.527†	2.4	0.00073	mg/L	0.000656	0.00073 mg/L	0.000656	90.23%
Be 313.042†	0.4	0.00000	mg/L	0.000036	0.00000 mg/L	0.000036	>999.9%
Ca 317.933†	13.1	0.00090	mg/L	0.002627	0.00090 mg/L	0.002627	290.65%
Cd 228.802†	-1.8	-0.00008	mg/L	0.000087	-0.00008 mg/L	0.000087	105.65%
Co 228.616†	-4.7	-0.00016	mg/L	0.000033	-0.00016 mg/L	0.000033	20.88%
Cr 267.716†	4.0	0.00078	mg/L	0.001342	0.00078 mg/L	0.001342	171.57%
Cu 324.752†	209.2	0.00075	mg/L	0.000151	0.00075 mg/L	0.000151	20.17%
Fe 273.955†	-3.4	-0.00298	mg/L	0.003630	-0.00298 mg/L	0.003630	121.98%
K 766.490†	23.8	0.01640	mg/L	0.026136	0.01640 mg/L	0.026136	159.39%
Mg 279.077†	9.2	0.00983	mg/L	0.001503	0.00983 mg/L	0.001503	15.29%
Mn 257.610†	-1.4	-0.00005	mg/L	0.000028	-0.00005 mg/L	0.000028	62.56%
Mo 202.031†	-3.1	-0.00018	mg/L	0.000341	-0.00018 mg/L	0.000341	188.02%
Na 589.592†	72.2	0.00608	mg/L	0.004339	0.00608 mg/L	0.004339	71.34%
Na 330.237†	1.2	0.04001	mg/L	0.119348	0.04001 mg/L	0.119348	298.33%
Ni 231.604†	3.5	0.00215	mg/L	0.001714	0.00215 mg/L	0.001714	79.66%
Pb 220.353†	1.3	0.00019	mg/L	0.000606	0.00019 mg/L	0.000606	311.46%
Sb 206.836†	10.4	0.00387	mg/L	0.001257	0.00387 mg/L	0.001257	32.48%
Se 196.026†	9.1	0.00763	mg/L	0.002000	0.00763 mg/L	0.002000	26.21%
Si 288.158†	6.5	0.00441	mg/L	0.004450	0.00441 mg/L	0.004450	100.81%
Sn 189.927†	3.7	0.00101	mg/L	0.000757	0.00101 mg/L	0.000757	75.20%
Sr 421.552†	-8.7	-0.00001	mg/L	0.000054	-0.00001 mg/L	0.000054	390.91%
Ti 334.903†	9.4	0.00043	mg/L	0.001099	0.00043 mg/L	0.001099	257.32%
Tl 190.801†	5.7	0.00331	mg/L	0.000478	0.00331 mg/L	0.000478	14.44%
V 292.402†	22.3	0.00023	mg/L	0.000068	0.00023 mg/L	0.000068	29.31%
Zn 206.200†	0.8	0.00130	mg/L	0.000422	0.00130 mg/L	0.000422	32.48%

Mercury Analysis Log

Analyst: MH
Instrument: CETAC

Date: 7/29/10
Page: 1 of 6

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
STD 0.0	SMM	1x		
" 0.1				
" 0.5				
" 1.0				
" 2.0				
" 5.0				
" 10.0				
ICV			7.84	Begin CLP %R=98 ✓
ICB			-0.02	✓
CCV1			4.04	%R=101 ✓
CCB1			0.00	✓
CRA			0.11	✓
RF99 MBI			0.00	✓
" MBISPK			1.99	%R=100 ✓
" A			4.19	
" ADUP			5.91	RPD=34% High x
" ASPK			5.54	%R=135 High x
" B				
RF71 MBI			0.00	✓
" MBISPK			2.01	%R=101 ✓
" A			0.39	
CCV2			4.02	%R=101 ✓
CCB2			-0.01	✓
RF71 ADUP			0.39	✓
" ASPK			1.41	%R=102 ✓
RG01 MBI			-0.00	✓
" MBISPK			1.97	%R=99 ✓
" D			0.31	
" DDUP			0.33	✓
" DSPK	✓	✓	1.38	%R=107 ✓

Chemical/Reagent ID:
10% SnCl₂: MP1927

14% NH₂OH/NaCl: MP1897

Standard ID:
Standard: 2746-9

ICV/CCV: 53-12

Mercury Analysis Log

Analyst: MH
 Instrument: CETAC

Date: 7/29/10
 Page: 2 of 6

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
RG01 E	SMM	1X		
RF82 MBI			0.00	✓
" MBISPK			2.02	%R=101 ✓
CCV3			4.12	%R=103 ✓
CCB3			-0.01	✓
RF82 E			1.53	
" EDUP			1.23	RPD=22% High X
" ESPK			2.37	%R=84 ✓
" F				
" G				
" H				
" J				
" K				
" O				
" P				
CCV4			4.09	%R=102 ✓
CEB4			-0.01	✓
RF82 Q				
" R				
" S				
RF83 A				
" B				
" G				
CCV5			3.99	%R=100 ✓
CCB5			-0.00	✓
RF74 MBI			-0.00	✓
" MBISPK			1.99	%R=100 ✓
" A			7.71	
" ADUP			8.06	RPD=4.4% ✓
" ASPK	↓	↓	11.97	%R=426 High X -Delete Confirmed

Chemical/Reagent ID:
 10% SnCl₂: MP1927

14% NH₂OH/NaCl: MP1897

Standard ID:
 Standard: 2746-a

ICV/CCV: 53-12

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 7/29/10

	Analyst <i>MM 7/29</i>	Peer <i>H 7-30</i>	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	<i>see log</i>
Internal Standards	—	—	
Carry-over	—	— ✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	<i>See CAF's</i>
Matrix Duplicates	✓	✓	<i>See CAF's</i>
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	<i>See CAF's</i>

01/30/10 ✓

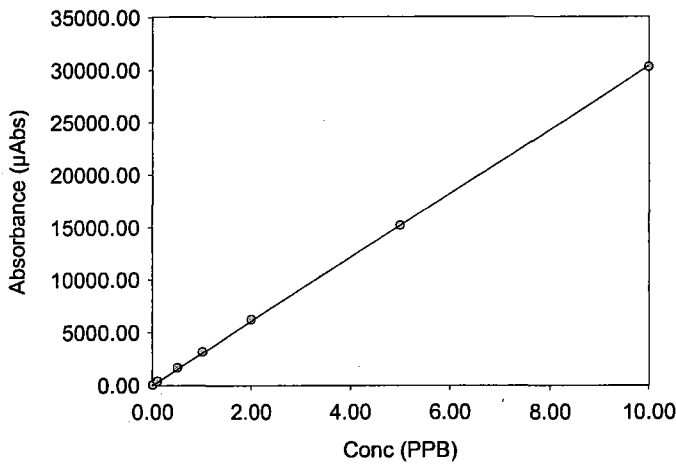
Analyst
Date Started Thursday, July 29, 2010, 10:29:29
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Std Tube 6	29-Jul-2010, 10:29	10.00	0.36	30300.00	1.00	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
Calibration Zero	29-Jul-2010, 10:31	0.00	4.51	74.10	1.00	
Standard #1	29-Jul-2010, 10:33	0.10	0.58	415.00	1.00	
Standard #2	29-Jul-2010, 10:34	0.50	0.34	1690.00	1.00	
Standard #3	29-Jul-2010, 10:36	1.00	0.54	3170.00	1.00	
Standard #4	29-Jul-2010, 10:37	2.00	0.39	6270.00	1.00	
Standard #5	29-Jul-2010, 10:39	5.00	0.27	15200.00	1.00	
Standard #6	29-Jul-2010, 10:41	10.00	0.45	30300.00	1.00	

Calibration Data



Int. Slope 0.000
Slope 3039.655
Correlation 0.99993

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
ICV	29-Jul-2010, 11:26	7.84	0.55	23800.00	1.00	
ICB	29-Jul-2010, 11:27	-0.02	2.59	-66.10	1.00	Begin CLP

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	29-Jul-2010, 11:29	4.04	0.32	12300.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Blank	29-Jul-2010, 11:31	0.00	349.00	0.73	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
CRA	29-Jul-2010, 11:32	0.11	1.30	335.00	1.00	
RF99 MB1 SMM	29-Jul-2010, 11:34	0.00	22.10	13.00	1.00	
RF99 MB1SPK SMM	29-Jul-2010, 11:35	1.99	0.16	6050.00	1.00	
RF99 A SMM	29-Jul-2010, 11:37	4.19	0.59	12700.00	1.00	
RF99 ADUP SMM	29-Jul-2010, 11:39	5.91	0.39	18000.00	1.00	
RF99 ASPK SMM	29-Jul-2010, 11:40	5.54	0.49	16800.00	1.00	
RF99 B SMM	29-Jul-2010, 11:42	0.18	0.79	536.00	1.00	
RF71 MB1 SMM	29-Jul-2010, 11:43	0.00	61.80	3.26	1.00	
RF71 MB1SPK SMM	29-Jul-2010, 11:45	2.01	0.60	6120.00	1.00	
RF71 A SMM	29-Jul-2010, 11:47	0.39	0.60	1180.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Dilution	Flags
QC Standard	29-Jul-2010, 11:48	4.02	0.31	12200.00	1.00	

Analyst
 Date Started Thursday, July 29, 2010, 11:50:33
 Worksheet ARI 10ppb CALIB
 Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	29-Jul-2010, 11:50	-0.01	10.90	-31.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
RF71 ADUP SMM	29-Jul-2010, 11:52	0.39	0.95	1170.00	1.00	
RF71 ASPK SMM	29-Jul-2010, 11:53	1.41	0.11	4280.00	1.00	
RG01 MB1 SMM	29-Jul-2010, 11:55	-0.00	64.60	-2.33	1.00	
RG01 MB1SPK SMM	29-Jul-2010, 11:56	1.97	0.18	6000.00	1.00	
RG01 D SMM	29-Jul-2010, 11:58	0.31	0.91	942.00	1.00	
RG01 DDUP SMM	29-Jul-2010, 12:00	0.33	0.50	1010.00	1.00	
RG01 DSPK SMM	29-Jul-2010, 12:01	1.38	0.39	4180.00	1.00	
RG01 E SMM	29-Jul-2010, 12:03	0.34	0.84	1050.00	1.00	
RF82 MB1 SMM	29-Jul-2010, 12:05	0.00	8.94	5.88	1.00	
RF82 MB1SPK SMM	29-Jul-2010, 12:06	2.02	0.60	6130.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	29-Jul-2010, 12:08	4.12	0.46	12500.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	29-Jul-2010, 12:09	-0.01	6.11	-27.20	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
RF82 E SMM	29-Jul-2010, 12:11	1.53	0.26	4660.00	1.00	
RF82 EDUP SMM	29-Jul-2010, 12:13	1.23	1.03	3730.00	1.00	
RF82 ESPK SMM	29-Jul-2010, 12:14	2.37	0.55	7210.00	1.00	
RF82 F SMM	29-Jul-2010, 12:16	0.25	0.46	759.00	1.00	
RF82 G SMM	29-Jul-2010, 12:18	0.11	0.72	335.00	1.00	
RF82 H SMM	29-Jul-2010, 12:19	0.09	0.30	261.00	1.00	
RF82 J SMM	29-Jul-2010, 12:21	0.71	0.41	2150.00	1.00	
RF82 K SMM	29-Jul-2010, 12:22	0.04	1.14	128.00	1.00	
RF82 O SMM	29-Jul-2010, 12:24	0.30	0.57	902.00	1.00	
RF82 P SMM	29-Jul-2010, 12:26	0.14	1.20	429.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	29-Jul-2010, 12:27	4.09	0.59	12400.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	29-Jul-2010, 12:29	-0.01	11.70	-16.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
RF82 Q SMM	29-Jul-2010, 12:31	0.09	0.39	281.00	1.00	
RF82 R SMM	29-Jul-2010, 12:32	0.13	1.00	401.00	1.00	
RF82 S SMM	29-Jul-2010, 12:34	0.23	0.36	669.00	1.00	
RF83 A SMM	29-Jul-2010, 12:36	0.17	0.64	521.00	1.00	
RF83 B SMM	29-Jul-2010, 12:37	0.24	0.55	719.00	1.00	
RF83 G SMM	29-Jul-2010, 12:39	0.05	2.67	141.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	29-Jul-2010, 12:40	3.99	0.25	12100.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	29-Jul-2010, 12:42	-0.00	2.19	-14.50	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
RF74 MB1 SMM	29-Jul-2010, 12:44	-0.00	15.90	-8.08	1.00	
RF74 MB1SPK SMM	29-Jul-2010, 12:46	1.99	0.66	6050.00	1.00	
RF74 A SMM	29-Jul-2010, 12:47	7.71	0.57	23400.00	1.00	
RF74 ADUP SMM	29-Jul-2010, 12:49	8.06	0.49	24500.00	1.00	
RF74 ASPK SMM	29-Jul-2010, 12:50	12.00	0.60	36400.00	1.00	
RF74 B SMM	29-Jul-2010, 12:53	0.12	0.56	363.00	1.00	

[Handwritten signature]
 O - Delete confirmed
 RF71 : 01242

Mercury Standard Prep Log

Prep Code: SMM
 Analyst: MH
 Bath Temp: 95°C

Instrument: CETAC
 Date: 7/27/10
 End Time: 0915

Start Time: 0845

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	50.0	0.0	3
STD1	2746-7	0.01	↓	0.1	2
STD2	↓	0.05	↓	0.5	2
STD3	↓	0.10	↓	1.0	2
STD4	↓	0.20	↓	2.0	2
STD5	↓	0.50	↓	5.0	2
STD6	↓	1.00	↓	10.0	2
CRA	↓	0.01	↓	0.1	1
ICB/CCB	—	0.00	↓	0.0	3
ICV/LCS	53-12	0.08	↓	8.0	2
CCV	↓	0.04	50.0	4.0	3

Chemical/Reagent ID:

HNO₃: I5547 H₂SO₄: I5387 HCl: —
 5% K₂S₂O₈: MP1910 5% KMnO₄: MP1911

Prep Code: SMM
 Analyst: DM
 Bath Temp: 95°C

Instrument: CETAC
 Date: 7-27-10
 End Time: 2210

Start Time: 2140

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	50.0	0.0	3
STD1	2746-9	0.01	↓	0.1	2
STD2	↓	0.05	↓	0.5	2
STD3	↓	0.10	↓	1.0	2
STD4	↓	0.20	↓	2.0	2
STD5	↓	0.50	↓	5.0	2
STD6	↓	1.00	↓	10.0	2
CRA	↓	0.01	↓	0.1	1
ICB/CCB	—	0.00	↓	0.0	3
ICV/LCS	53-12	0.08	↓	8.0	2
CCV	↓	0.04	50.0	4.0	3

Chemical/Reagent ID:

HNO₃: I5547 H₂SO₄: I5387 HCl: —
 5% K₂S₂O₈: MP1910 5% KMnO₄: MP1911



Mercury Digestion Log

Prep Code: SMM

Matrix: Soil

Analyst: MH

Date: 7/28/10

Bath Temp: 95°C

Start Time: 1555

End Time: 1625

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# KMnO ₄ Aliquots	CLP	Comments
RF99 A	6	—	0.249	50.0	7/29 1	(Y)	
" ADUP	6	—	0.252		1		
" ASPK	6	—	0.251		1		
" B	6	—	0.243		1		
" MBI	—	—	—		1		
" MBISPK	—	—	—		1		
RF71 A	1	—	0.241		8/09 1		
" ADUP	1	—	0.245		1		
" ASPK	1	—	0.239		1		
" MBI	—	—	—		1		
" MBISPK	—	—	—		1		
RG01 D	2	—	0.218		8/01 1		
" DDUP	2	—	0.214		1		
" DSPK	2	—	0.219		1		
" E	2	—	0.240		1		
" MBI	—	—	—		1		
" MBISPK	—	—	—	50.0	1	(Y)	
<p>MH 7/28/10</p> <p><i>[Signature]</i></p>							

Chemical/Reagent ID:

HNO₃: I5547

H₂SO₄: I5387

HCl: —

5% K₂S₂O₈: MPR10

5% KMnO₄: MP1911

Digest Tube Lot: 100171

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: RF71

7-29-10
7/29/10

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET
 (dry at 104 (12-24 hr) then combust at 550 (30 min))
 DATE: 7/29/10 (A)
 ANALYST: KE 17:56
Instrumentation
 Drying Ovens: 12
 Muffle Furnace: 62770918520
 Analytical Balance: 1123230597

Batch drying time
 record times as mm/dd/yy hh:mm
 7/28/2010 17:56 date/time in oven KE
 7/29/2010 10:40 date/time out KE
 elapsed hrs = 16.7

SAMPLE ID	DISH #	Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	TS (%) calculated as:		TS (%)	dry Wt (g)	ASH WT 104C (grams)	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
									TARE WT (grams)	DRY WT (grams)				1	2		
Blank			7/28/10 17:10 KE	7/28/10 16:57 KE	7/28/10 10:58 KE	7/29/10 11:52 KE	7/29/10 12:42 KE	10.0000	10.0000	10.0000	10.0000	1.1311	1.1312	0.00			
RF71 A1			10.0000	10.0000	1.1312	1.1311	4.2469	4.6312	1.1312	1.1311	61.3%	3.11	1.1312	1.1312	0.00		
RF71 A1 dup			6.8762	1.1452	4.6312	4.6312					60.8%	3.49					

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt) / (grams Sample-Tare)
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000"
 RPD = 0.72%
 RSD = 0.54%

SAMPLE ID	TARE WT (grams)	DRY WT (grams)	dry Wt (g)	TS (%)	RPD =	RSD =
RF71 A1 trp	1.0893	4.5820	3.49	60.6%	0.72%	0.54%
RF79 K5	1.1275	4.3387	3.21	59.3%	3.03	56.023
RF79 W5	1.1349	3.8832	2.75	54.8%	2.52	83.215
RF79 W5 dup	1.1420	4.0309	2.89	54.0%	2.66	80.792

RPD = 2.95%
 RSD = 1.92%

SAMPLE ID	TARE WT (grams)	DRY WT (grams)	dry Wt (g)	TS (%)	RPD =	RSD =
RF79 W5 trp	1.1324	4.1626	3.03	54.8%	2.79	80.292
RF79 J5	1.1021	4.1047	3.00	55.9%	2.84	55.352
RF79 KX	1.1266	3.9522	2.83	56.6%	2.59	84.548
RF79 Z5	1.1163	4.2230	3.11	54.6%	2.85	82.982
RF96 A2	1.1154	5.9899	4.87	86.9%		
RF96 A2 dup	1.1370	6.0389	4.90	87.9%		

RPD = 1.17%
 RSD = 0.90%

SAMPLE ID	TARE WT (grams)	DRY WT (grams)	dry Wt (g)	TS (%)	RPD =	RSD =
RF96 A2 trp	1.1003	6.0122	4.91	86.4%		
RF96 B2	1.1456	3.7906	2.65	49.5%		
RF98 A1	1.1227	4.8372	3.71	69.4%		

RF71: 01240

7/29/10
17:56

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET
 SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))
 DATE: 7/29/10 (A)
 ANALYST: KE 17:56
 Analytical Balance: 1123230597

Drying Ovens: 12
 Muffle Furnace: 62770918520

Batch drying time
 record times as mm/dd/yy hh:mm
 7/28/2010 17:56 KE
 7/29/2010 10:40 KE
 elapsed hrs = 16.7

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000"

CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02
7/28/10 17:10 KE	7/28/10 16:57 KE	7/28/10 10:58 KE	7/29/10 11:52 KE	7/29/10 12:42 KE		
10.0000	10.0000	10.0000	10.0000	10.0000		
Cal OK!	Cal OK!	Cal OK!	Cal OK!	Cal OK!		

SAMPLE ID	DISH #	Cal Weight (g)	TARE WT (grams)		DRY WT 104C (grams)		dry Wt (g)		TS (%)	TVS (mg/kg)	TVS (%)
			Sample	Cal OK!	Sample	Cal OK!	dry Wt	TS (%)			
RF98 A1 dup		6.6480	1.1258	4.9548	3.83	69.3%	3.83	69.3%			
RF98 B1		6.7021	1.1250	5.0736	3.95	70.8%	3.95	70.8%			
RF98 C1		6.8289	1.1199	4.7637	3.64	63.8%	3.64	63.8%			

RPD = 0.05%
 RPD = NA

RF71 : 01247

TOC Solids Prep Log						DATE:	7/28/2010
acid purging to remove IC and drying at 70°C for TOC analysis General notes regarding prep method and samples (identify the acid used)						ANALYST:	KE 18:20
						<i>make no entry to shaded cells, they are calculated</i>	
Sample ID		IC Test + / -	Gravimetric Data (grams)			% Solids	Sample description & notes (homogeneity and exclusions)
ARI #	Client		Tare Wt.	Wet wt.	70°C dry wt		
Blank			13.2142		13.2143	0.1 mg	
RF71 A1		-	13.1591	18.5248	16.5875	63.89%	
RF71 A1 DUP		-	13.2410	18.7113	16.6972	63.18%	
RF71 A1 TRIP		-	13.1412	18.6215	16.6116	63.33%	
RF79 K5		-	13.1229	18.5294	16.4946	62.36%	
RF79 W5		-	13.1875	18.6838	16.4055	58.55%	
RF79 W5 DUP		-	13.1878	18.9475	16.5356	58.12%	
RF79 W5 TRIP		-	13.0900	18.7506	16.3846	58.20%	
RF79 J5		-	13.1079	18.6306	16.3955	59.53%	
RF79 X2		-	13.1066	18.4765	16.3514	60.43%	
RF79 Z2		-	13.2495	18.8746	16.4533	56.96%	
RF96 A2		+ -	13.2089	18.7999	18.6292	96.95%	
RF96 A2 DUP		+ -	13.2440	18.7094	18.4747	95.71%	
RF96 A2 TRIP		+ -	13.1589	18.5395	18.2499	94.62%	
RF96 B2		+ -	13.2506	18.3617	15.9980	53.75%	



7-28-10 (W)

TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC analysis
Add general notes regarding samples and preparation and identify the acid used

Analyst 7-28-10

Date (W) 18:20

Sample Identification		IC Test	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID		Tare	Wet	70 °C		
Blank			13.2142	13.2143			
RF71 A1		-	13.1591	18.5298	16.5879	Thick Sediment	
oPA1		-	13.2410	18.7113	16.6972		
vPA1		-	13.1412	18.6215	16.6116		
RF79 K5		-	13.1229	18.5274	16.4055	16.4946	
W3		-	13.1875	18.6838	16.3556	16.4055	Thick Sediment (wet)
oPW3		-	13.1878	18.9475	16.3846	16.5356	
vPW3		-	13.0900	18.7506	16.3846		
J5		-	13.1079	18.6306	16.3955		Sediment
X2		-	13.1066	18.4765	16.3514		
Z3		-	13.2495	18.8746	16.4533		
RF96 A2		+ -	13.2089	18.7199	18.6292		Sand & Rock
oPA2		+ -	13.2440	18.7094	18.4747		
vPA2		+ -	13.1587	18.5315	18.2499		
B2		+ -	13.2506	18.3617	15.9980		Sediment (wet) leaves & debris

7-28-10 (W)

W
8-6-10

TOC, Solids Data Analysis DATE: 8/3/2010
 Instrument: Apollo 2 ANALYST: KE 12:48
 Mode: NPOC Inlet: Boat
 Spike Std = 2,500 ppm C

Calibration Data
 Cal Curve ID: **CAL 072210** Conc: 5,000 ppm
 Calibration Curve Standard: **ARI # 00103 - 1** Curve Date: **07/22/10**
 CalFact: 2.599E+05 intercept: -120606 r2: 0.99983
 Curve Range (µgC): 8 to 100

Verification Standard Source: ERA# 0513 - 10 - 06 Conc: 5,000 ppm
 dilution: 10 mL to 50 1,000 ppm

Standard Reference Material Source: NIST 8704 Conc: 33,510 ppm

Silica Blanks

Replicate determinations					Mean	RSD	condition

Sample Data
 "C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
ICV			-	1.00		40.0	894	894	89.10%
ICV				1.00		40.0	970	970	97.00%
Blank				1.00		40.0	26.11	26	Blank OK
NIST 8704				1.00		1.7	34241	34,241	102.18%
RF71 A1				1.00		1.0	39246	39,246	Range OK!
RF71 A1 dup				1.00		1.0	32697	32,697	RPD=18.2%
RF71 A1 trp				1.00		1.1	24168	24,168	RSD=23.6%
RF71 A1 trp				1.00		1.3	37702	37,702	RSD=9.4%
RF71 A1 ms				1.00	20	1.0	89316	89,316	Range OK!
Spike = 0.05 mg C to 1.0 mg samp = 50,000 ppm 100%									
RG54 E6				1.00		1.7	18906	18,906	Range OK!
RG54 G6				1.00		2.9	2635	2,635	Range OK!
RG54 K6				1.00		3.8	1456	1,456	Range OK!
RG53 A3				1.00		2.0	11437	11,437	Range OK!
CCV			-	1.00		40.0	1246	1,246	124.60%
CCV			-	1.00		40.0	1117	1,117	111.70%
CCV				1.00		40.0	1080	1,080	108.00%
Blank				1.00		40.0	25.69	26	Blank OK
RG53 B3				1.00		2.5	13644	13,644	Range OK!
RG53 C3				1.00		1.3	27897	27,897	Range OK!
RG53 D3				1.00		2.0	24384	24,384	Range OK!
RG53 E3				1.00		1.6	34103	34,103	Range OK!
NIST 8704				1.00		1.8	28088	28,088	83.82%
CCV				1.00		40.0	1015	1,015	101.50%
Blank				1.00		40.0	22.38	22	Blank OK



①8-3-10⑩

TOC Solids Sample Run Log
Apollo 9000

Page 1 of 1

Set-Up Parameters MODE: <i>NPOC</i> (Peak) INLET: <i>Bent Sampler</i>						
Standards:	Source	Conc (ppm)		12:48		
Calibration:	<i>ARI 00103-01</i>	<i>5000</i>				
Verification:	<i>ERA 1513-10-06</i>	<i>Scrap to load for US</i>				
SRM:	<i>NBS 8704</i>	<i>33510</i>				
Sample Sequence:						
Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	μL added	
<i>ICU</i>			<i>40</i>			
<i>ICU</i>			<i>40</i>			
<i>ICB</i>			<i>40</i>			
<i>NBS 8704</i>			<i>1.7</i>			
<i>RF71 A1</i>			<i>1.0</i>			
↓ <i>PA1</i>			<i>1.0</i>			
↓ <i>PA1</i>			<i>1.1</i>			
↓ <i>PA1</i>			<i>1.3</i>			
↓ <i>MSA</i>			<i>1.0</i>	<i>2500</i>	<i>20</i>	
<i>RG54 E6</i>			<i>1.7</i>			
↓ <i>F6</i>			<i>2.9</i>			
↓ <i>K6</i>			<i>3.8</i>			
<i>RG53 A3</i>			<i>2.0</i>			
<i>CCU</i>			<i>40/40/40</i>			<i>3 injects</i>
<i>CCB</i>			<i>40</i>			<i>REC III US</i>
<i>RG53 B3</i>			<i>2.5</i>			
↓ <i>C3</i>			<i>1.3</i>			
↓ <i>D3</i>			<i>2.0</i>			
↓ <i>E3</i>			<i>1.6</i>			
<i>NBS 8704</i>			<i>1.8</i>			
<i>CCU</i>			<i>40</i>			
<i>CCB</i>			<i>40</i>			
<i>8-3-10</i>						
<i>(A)</i>						

8-3-10 (N)

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08031317
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 13:29
 Operator ID: TRINA Sample Type: Cal. Verification

N/A
8-3-10 (N)

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	890.5825	35.6233	9115783	16.802	17.800	152

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08031335
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 13:39
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	969.6300	38.7852	9946811	17.184	18.183	142

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08031345
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 13:48
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26.1054	1.0442	27523	17.332	17.230	120

Last Message: Low Sample Detected

Sample ID: NBS 8704 Mode: TOC
 Method: Boat Sampler Filename: 08031356
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 14:01
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34241.0703	58.2098	15052093	17.346	18.346	220

Sample ID: RF71 A1 Mode: TOC
 Method: Boat Sampler Filename: 08031504
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 15:07
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39246.2695	39.2463	10314914	17.774	18.772	156

Sample ID: RF71 A1 DP Mode: TOC
 Method: Boat Sampler Filename: 08031515
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 15:19
 Operator ID: TRINA Sample Type: Sample

8-3-10 (N)

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32696.7598	32.6968	8593537	17.643	18.638	152

Sample ID: RF71 A1 TP Mode: TOC
 Method: Boat Sampler Filename: 08031532
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 15:35
 Operator ID: TRINA Sample Type: Sample

N/A
8-3-10 (N)

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24167.9805	26.5848	6987153	17.616	18.612	133

Sample ID: RF71 A1 *HP 8-3-10 (N)*
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 07232010
 Operator ID: TRINA
 Mode: TOC
 Filename: 08031543
 Timestamp: 2010/08/03 15:47
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	37702.4766	49.0132	12881917	17.566	18.562	176

Sample ID: RF71 A1 *MS 8-3-10 (N)*
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 07232010
 Operator ID: TRINA
 Mode: TOC
 Filename: 08031552
 Timestamp: 2010/08/03 15:58
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	89315.9219	89.3159	23474488	17.609	18.609	202

Sample ID: RF54 E6
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 07232010
 Operator ID: TRINA
 Mode: TOC
 Filename: 08031606
 Timestamp: 2010/08/03 16:12
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18906.1992	32.1405	8447348	17.561	18.559	158

Sample ID: RF54 F6
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 07232010
 Operator ID: TRINA
 Mode: TOC
 Filename: 08031628
 Timestamp: 2010/08/03 16:32
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2634.8220	7.6410	2008244	17.554	18.553	123

Sample ID: RF54 K6
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 07232010
 Operator ID: TRINA
 Mode: TOC
 Filename: 08031636
 Timestamp: 2010/08/03 16:39
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1455.9141	5.5325	1454074	17.631	18.631	108

Sample ID: RF53 A3
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 07232010
 Operator ID: TRINA
 Mode: TOC
 Filename: 08031643
 Timestamp: 2010/08/03 16:47
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11436.6523	22.8733	6011684	17.637	18.635	143

Sample ID: CVS BOAT 1000 *NA 8-3-10 (N)*
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 07232010
 Operator ID: TRINA
 Mode: TOC
 Filename: 08031655
 Timestamp: 2010/08/03 16:59
 Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
-------	-------	------	----------	--------------------	-----------------	------------------

	Baseline	Baseline	Time
1 1245.8756 49.8350 12850984	17.872	18.868	177

Last Message: Out of Calibration
=====

Sample ID: CVS BOAT 1000 *N/A 8-3-10* Mode: TOC
Method: Boat Sampler Filename: 08031701
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 17:04
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1116.7240	44.6690	11493212	17.831	18.828	161

Last Message: Out of Calibration
=====

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 08031707
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 17:10
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1079.7482	43.1899	11104485	18.063	19.062	136

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 08031714
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 17:20
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25.6922	1.0277	23179	17.768	17.643	120

Last Message: Low Sample Detected
=====

Sample ID: RG53 B3 Mode: TOC
Method: Boat Sampler Filename: 08031729
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 17:33
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13644.1064	34.1103	8965043	17.951	18.948	157

Sample ID: RG53 C3 Mode: TOC
Method: Boat Sampler Filename: 08031735
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 17:39
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27896.8516	36.2659	9531600	18.213	19.207	148

Sample ID: RG53 D3 Mode: TOC
Method: Boat Sampler Filename: 08031742
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/03 17:47
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24383.5840	48.7672	12817247	18.248	19.247	192

Sample ID: RG53 E3 Mode: TOC

Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Filename: 08031749
Timestamp: 2010/08/03 17:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34103.3867	54.5654	14341176	18.446	19.444	207

Sample ID: NBS 8704
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031757
Timestamp: 2010/08/03 18:03
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28087.8809	50.5582	13041049	18.618	19.617	188

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031807
Timestamp: 2010/08/03 18:11
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1014.8460	40.5938	10422167	18.418	19.416	144

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: TRINA

Mode: TOC
Filename: 08031812
Timestamp: 2010/08/03 18:15
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22.3840	0.8954	-11600	18.385	18.119	120

Last Message: Low Sample Detected

**Geotechnical Raw Data
Analyst Notes and Raw Data**

ARI Job ID: RF71

PSEP GRAIN SIZE ANALYSIS

Job No. RF71 ARI Sample No. A Client Sample No. BW-07-SC-COMP-100726
 Set-up Date: 7-28-10 Sample Description: Sandy silty clay, organic debris
 Calgon Batch # 220 Sieve Set # 1 Date Sieved: 7/30/2010

SOLIDS CONTENT

Moisture Content		Initials <u>QJ</u>
Container No.	115	
Tare Weight	1.5316	
Wet Weight + Tare	25.9710	
Dry Weight + Tare	16.8922	

Test Sample		Initials <u>QJ</u>
Container No.	115	
Tare Weight	51.3227	
Wet Weight + Tare	95.7046	
Dry Weight + Tare	61.9700	

SIEVE ANALYSIS
Initials AS

Sieve Size	Weight Retained
Tare	51.3347
4	52.1172
10	53.1728
18	54.2879
35	56.0824
60	58.4466
120	59.8344
230	61.1182
PAN	0.8466

PIPETTE ANALYSIS
Initials QJ

Tare ID	Tare Wt	Dry Wt & Tare	TIME
A-1	1.5317	1.8922	8:24:00
A-2	1.5295	1.8388	8:24:20
A-3	1.5340	1.7361	8:25:46
A-4	1.5215	1.6466	8:31:05
A-5	1.5558	1.6411	8:52:18
A-6	1.5479	1.6092	10:17:00
A-7	1.5525	1.5968	13:50:00
			7:00:00

8/2/2010

Temp:23

Salt Correction

Tare Wt.	
Tare + Dry Sample	
Salt Correction (x 50)	

8.2.10 *eg*

Batch 220

Tare Wt.	Tare + Dry Wt.	Dry Weight
① 1.5477	2.0204	0.4727
② 1.5420	2.0155	0.4735
③ 1.5103	1.9848	0.4745
④ 1.5057	1.9780	0.4723
⑤ 1.5116	1.9847	0.4731

Average 0.47322

22 June 2009

Delaney Peterson
 Anchor Environmental, L.L.C.
 1423 3rd Avenue, Suite 300
 Seattle, WA 98101

Ph.: 206.287.9130
 Email: dpeterson@anchorenv.com

Subject: Certificate of Results

Dear Joy;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. A brief description of the report's components is provided. Results are reported on a dry-weight basis and relate only to the items tested.

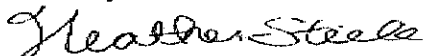
Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	080207-02
AP Project No.	P1376
Analytical Protocol	Method 1613B
No. Samples Submitted	6
No. Samples Analyzed	6
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
No. Outstanding Samples	0
Date Received	4-Jun-2009
Condition Received	Good
Temperature upon Receipt (C)	4
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	see below
Analytical Difficulties	see below

QC Annotations:

1. A "J" data qualifier is used for analytes with a concentration below the reporting limit.
2. The new ratio – [Ra] -- for 2,3,7,8-TCDD following the $^{37}\text{Cl}_4$ -2,3,7,8-TCDD correction is shown between squared brackets in the DL column.

Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us. Thank you for choosing Analytical Perspectives as part of your analytical support team.

Sincerely,



Heather Steele, Ph.D.
Project Manager

The electronic version of this report contains ~~336~~ pages.
(add one page in count for the NELAC compliance statement) (+1)

P1376

ANALYTICAL PERSPECTIVES

Part 1 Narrative

26 pgs

- ✓ Letter
- ✓ QC Annotations
- ✓ Project Information

ANALYTICAL PERSPECTIVES

Part 2 Path

13 pgs

- ✓ Overview
- ✓ Protocol
- ✓ Extraction
- ✓ Analysis
- ✓ Spike Profile
- ✓ SOPs
- ✓ QC
- ✓ Reporting
- ✓ Special Requirements

Extraction
Tracking Sheets

Fractionation
Tracking Sheets

Injection
Tracking Sheets

ANALYTICAL PERSPECTIVES

Part 3 Results

119 pgs

- ✓ Summary Topsheets
- ✓ Raw Data
- ✓ SICPs
- ✓ Areas
- ✓ Retention Times
- ✓ S/N
- ✓ Ion Abundance Ratios

ANALYTICAL PERSPECTIVES

Part 4 Performance

26 pgs

System Checks

- ✓ Mass Spectrometry
- ✓ Gas Chromatography
- ✓ Initial Calibration
- ✓ Continuing Calibration
- ✓ BCS₃, OPR

Part 4D
ICAL
115 pgs

Part 4E
OPR
32 pgs

STATE CERTIFICATION ID #s	
ARIZONA	AZ0696
CALIFORNIA	01166CA
FLORIDA	E87608
LOUISIANA	4024
MICHIGAN	9951
NEW JERSEY	NC005
NEW YORK	11735
NORTH CAROLINA	37783
PENNSYLVANIA	37-1849
SOUTH CAROLINA	99054

P1376 - TEQ
Project ID: 080207-02

Sample Summary
Part 1 (dry weight)



Method 1613

Analyte	0_6875_MB0 01 pg/g	BW-01-SS- 090602 pg/g	BW-03-SS- 090602 pg/g	BW-07-SS- 090602 pg/g	BW-09-SS- 090602 pg/g	BW-11-SS- 090602 pg/g	BW-53-SS- 090602 pg/g
2,3,7,8-TCDD	(0.0537)	[0.293]	0.312	0.264	[0.57]	{0.223}	0.183
1,2,3,7,8-PeCDD	(0.103)	1.27	1.07	1.48	[1.49]	0.801	0.684
1,2,3,4,7,8-HxCDD	(0.102)	2.24	1.49	6.48	2.46	1.38	1.56
1,2,3,6,7,8-HxCDD	(0.11)	15	8.2	9.59	7.36	5.08	6.76
1,2,3,7,8,9-HxCDD	(0.118)	5.94	3.78	6	3.88	2.82	2.86
1,2,3,4,6,7,8-HpCDD	(0.154)	264	130	301	98	89.8	93.5
OCDD	(0.452)	2380	1160	2810	686	731	734
2,3,7,8-TCDF	(0.0877)	1.48	1.22	0.825	3.45	1.16	1.03
1,2,3,7,8-PeCDF	(0.0971)	0.8	[0.474]	[0.423]	1.16	0.402	0.408
2,3,4,7,8-PeCDF	(0.0908)	1.61	1.05	1.03	2.8	0.928	0.824
1,2,3,4,7,8-HxCDF	(0.0663)	1.97	1.26	1.75	3.11	0.821	0.86
1,2,3,6,7,8-HxCDF	(0.0618)	1.81	1.09	1.53	2.18	0.693	0.778
2,3,4,6,7,8-HxCDF	(0.0702)	2.65	1.76	2.35	2.86	1.12	1.31
1,2,3,7,8,9-HxCDF	(0.0954)	[0.569]	[0.336]	0.635	0.785	0.275	0.357
1,2,3,4,6,7,8-HpCDF	(0.103)	44.6	27.9	41.3	19.9	12.2	17.3
1,2,3,4,7,8,9-HpCDF	(0.165)	2.72	1.43	2.4	1.51	0.763	0.952
OCDF	(0.31)	118	64.8	121	33.6	33.3	35.6
ITEF TEQ (ND=0; EMPC=0)	0.00	10.2	6.07	10.8	5.98	4.01	4.40
ITEF TEQ (ND=0; EMPC=EMPC)	0.00	10.5	6.13	10.8	7.300	4.23	4.40
ITEF TEQ (ND=DL/2; EMPC=0)	0.116	10.2	6.08	10.8	6.05	4.05	4.40
ITEF TEQ (ND=DL/2; EMPC=EMPC)	0.116	10.5	6.13	10.8	7.300	4.23	4.40
ITEF TEQ (ND=DL; EMPC=EMPC)	0.232	10.5	6.13	10.8	7.300	4.23	4.40
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓

() = DL
[] = EMPC

Reviewer
Date

[Handwritten Signature]
19 Feb 09

P1376 - WHO 2005 TEF-TEQ

Project ID: 080207-02

Sample Summary Part 1 (dry weight)



Method 1613

Analyte	0_6875_MB0 01 pg/g	BW-01-SS- 090602 pg/g	BW-03-SS- 090602 pg/g	BW-07-SS- 090602 pg/g	BW-09-SS- 090602 pg/g	BW-11-SS- 090602 pg/g	BW-53-SS- 090602 pg/g
2,3,7,8-TCDD	(0.0537)	[0.293]	0.312	0.264	[0.57]	[0.223]	0.183
1,2,3,7,8-PeCDD	(0.103)	1.27	1.07	1.48	[1.49]	0.801	0.684
1,2,3,4,7,8-HxCDD	(0.102)	2.24	1.49	6.48	2.46	1.38	1.56
1,2,3,6,7,8-HxCDD	(0.11)	15	8.2	9.59	7.36	5.08	6.76
1,2,3,7,8,9-HxCDD	(0.118)	5.94	3.78	6	3.88	2.82	2.86
1,2,3,4,6,7,8-HpCDD	(0.154)	264	130	301	98	89.8	93.5
OCDD	(0.452)	2380	1160	2810	686	731	734
2,3,7,8-TCDF	(0.0877)	1.48	1.22	0.825	3.45	1.16	1.03
1,2,3,7,8-PeCDF	(0.0971)	0.8	[0.474]	[0.423]	1.16	0.402	0.408
2,3,4,7,8-PeCDF	(0.0908)	1.61	1.05	1.03	2.8	0.928	0.824
1,2,3,4,7,8-HxCDF	(0.0663)	1.97	1.26	1.75	3.11	0.821	0.86
1,2,3,6,7,8-HxCDF	(0.0618)	1.81	1.09	1.53	2.18	0.693	0.778
2,3,4,6,7,8-HxCDF	(0.0702)	2.65	1.76	2.35	2.86	1.12	1.31
1,2,3,7,8,9-HxCDF	(0.0954)	[0.569]	[0.336]	0.635	0.785	0.275	0.357
1,2,3,4,6,7,8-HpCDF	(0.103)	44.6	27.9	41.3	19.9	12.2	17.3
1,2,3,4,7,8,9-HpCDF	(0.165)	2.72	1.43	2.4	1.51	0.763	0.952
OCDF	(0.31)	118	64.8	121	33.6	33.3	35.6
WHO 2005 TEF TEQ (ND=0; EMPC=0)	0.00	8.75	5.54	9.30	4.89	3.68	4.03
WHO 2005 TEF TEQ (ND=0; EMPC=EMPC)	0.00	9.10	5.59	9.31	6.96	3.91	4.03
WHO 2005 TEF TEQ (ND=DL/2; EMPC=0)	0.131	8.79	5.55	9.30	4.99	3.72	4.03
WHO 2005 TEF TEQ (ND=DL/2; EMPC=EMPC)	0.131	9.10	5.59	9.31	6.96	3.91	4.03
WHO 2005 TEF TEQ (ND=DL; EMPC=EMPC)	0.262	9.10	5.59	9.31	6.96	3.91	4.03
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓

() = DL
[] = EMPC

Reviewer
Date

[Handwritten signature]
19/09/09

P1376 - Totals

Project ID: 080207-02

Sample Summary Part 2 (dry weight)





Method 1613

Analyte	0_6875_MB0 01 pg/g	BW-01-SS- 090602 pg/g	BW-03-SS- 090602 pg/g	BW-07-SS- 090602 pg/g	BW-09-SS- 090602 pg/g	BW-11-SS- 090602 pg/g	BW-53-SS- 090602 pg/g
Totals							
TCDDs	0	14.4	11.7	13.5	48.6	19.8	10.6
PeCDDs	0	17.8	12.6	13.6	44.5	19.2	9.52
HxCDDs	0	112	66.8	75.7	83.8	57.2	53.5
HpCDDs	0	559	300	552	225	272	218
OCDD	0	2380	1160	2810	686	731	734
TCDFs	0	15.1	13.3	9.57	42.4	11.7	8.97
PeCDFs	0	11.6	13.6	12	22.4	6.3	5.97
HxCDFs	0	64.6	36.2	52.8	39.3	19.2	25.7
HpCDFs	0	148	89.6	124	52.5	37.9	51.6
OCDF	0	118	64.8	121	33.6	33.3	35.6
Total PCDD/Fs (ND=0; EMPC=0)	0.00	3,440	1,770	3,790	1,280	1,210	1,150
Total PCDD/Fs (ND=0; EMPC=EMPC)	0.00	3,450	1,780	3,790	1,290	1,220	1,160
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	2.24	3,450	1,780	3,790	1,290	1,220	1,160
Total 2378s (ND=0; EMPC=0)	0.00	2,840	1,410	3,310	869	882	899
Total 2378s (ND=0.5; EMPC=0)	1.12	2,840	1,410	3,310	869	882	899
Total 2378s (ND=1; EMPC=0)	2.24	2,840	1,410	3,310	869	882	899
Total 2378s (ND=0; EMPC=1)	0.00	2,840	1,410	3,310	871	882	899
Total 2378s (ND=0.5; EMPC=1)	1.12	2,840	1,410	3,310	871	882	899
Total 2378s (ND=1; EMPC=1)	2.24	2,840	1,410	3,310	871	882	899
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓

Total 2378s = Sum of 17 2378-substituted PCDD/PCDF congeners (SARA 313)

() = DL
[] = EMPC

Reviewer 
Date 

P1376 - Others

Project ID: 080207-02

Sample Summary Part 3 (dry weight)



Method 1613

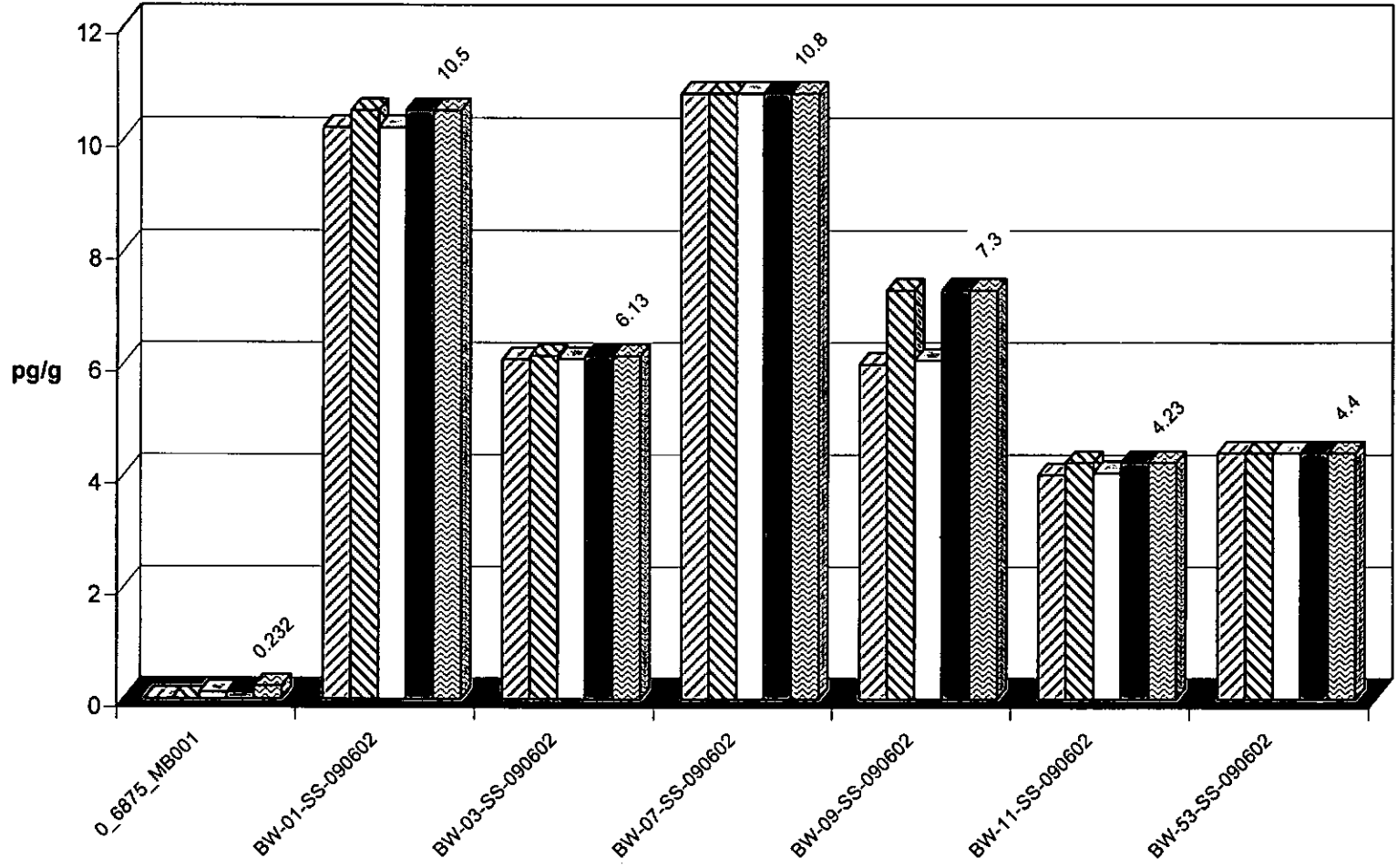
Analyte	0_6875_MB0 01 pg/g	BW-01-SS- 090602 pg/g	BW-03-SS- 090602 pg/g	BW-07-SS- 090602 pg/g	BW-09-SS- 090602 pg/g	BW-11-SS- 090602 pg/g	BW-53-SS- 090602 pg/g
Other PCDD/Fs (ND=0, EMPC=0)							
Other TCDD	0	14.4	11.4	13.2	48.6	19.8	10.5
Other PeCDD	0	16.6	11.5	12.1	44.5	18.4	8.84
Other HxCDD	0	88.9	53.3	53.7	70.1	47.9	42.3
Other HpCDD	0	295	170	251	127	182	124
Other TCDF	0	13.6	12	8.75	38.9	10.5	7.95
Other PeCDF	0	9.23	12.5	11	18.5	4.97	4.74
Other HxCDF	0	58.2	32.1	46.5	30.3	16.3	22.4
Other HpCDF	0	101	60.2	80.6	31.1	24.9	33.3
Other PCDD/Fs (ND=0, EMPC=EMPC)							
Other TCDD	0	15.9	12.3	14	49.5	22.6	11.6
Other PeCDD	0	17.4	12.6	12.1	44.5	20.8	10.2
Other HxCDD	0	88.9	54.4	55.2	70.1	47.9	43.1
Other HpCDD	0	295	170	251	127	182	124
Other TCDF	0	15.7	13.4	10.1	39.8	12.1	10.2
Other PeCDF	0	18.3	13	11.7	24.6	7.97	7.76
Other HxCDF	0	59.2	32.8	46.5	30.7	16.6	22.9
Other HpCDF	0	101	61	81.4	31.1	24.9	33.8
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓

() = DL
[] = EMPC

Reviewer
Date
MS 19 Jan 09

ITEF-TEQ
Project ID: 080207-02
P1376

- ▨ ND=0; EMPC=0
- ▩ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC

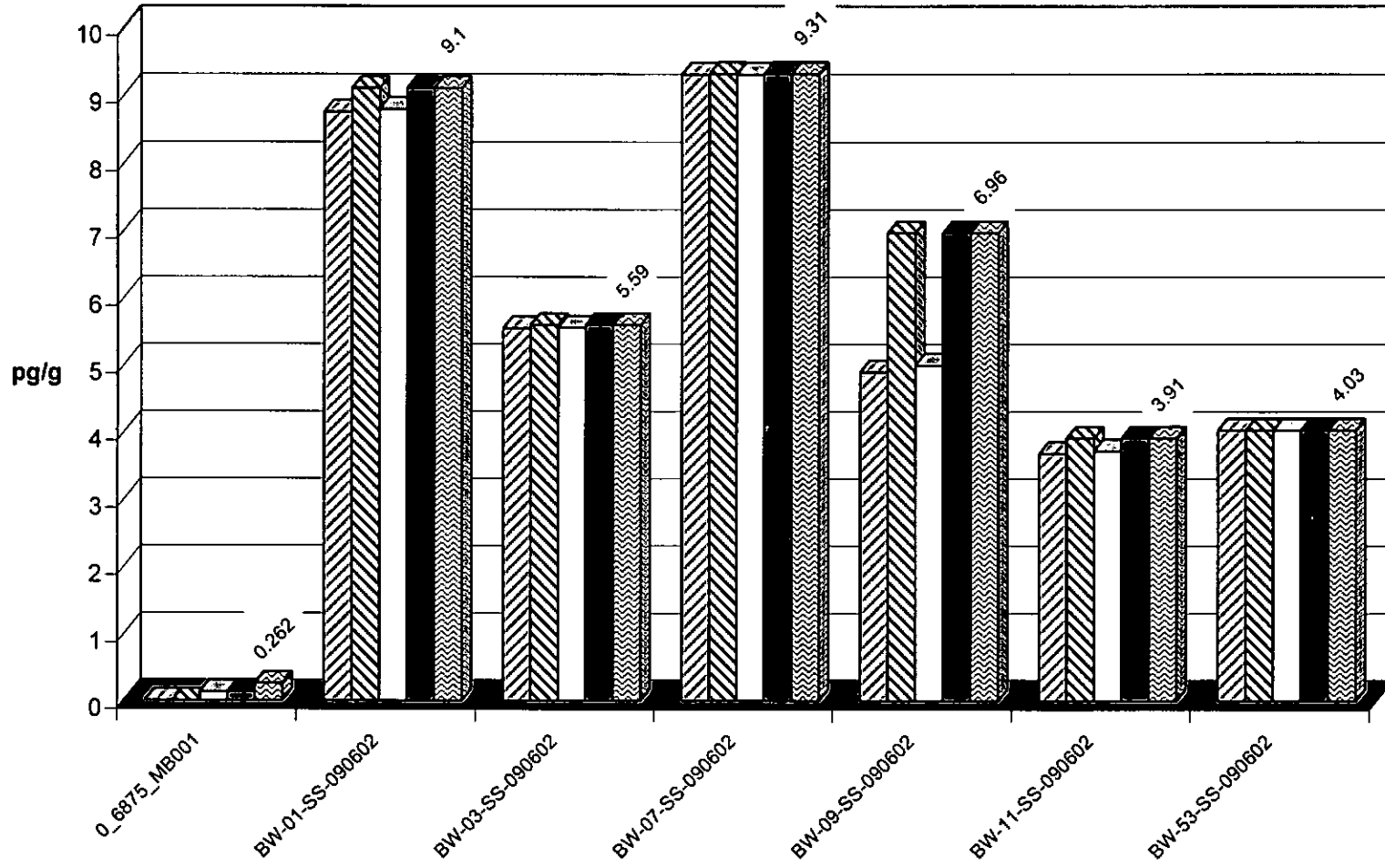


WHO 2005 TEF-TEQ

Project ID: 080207-02

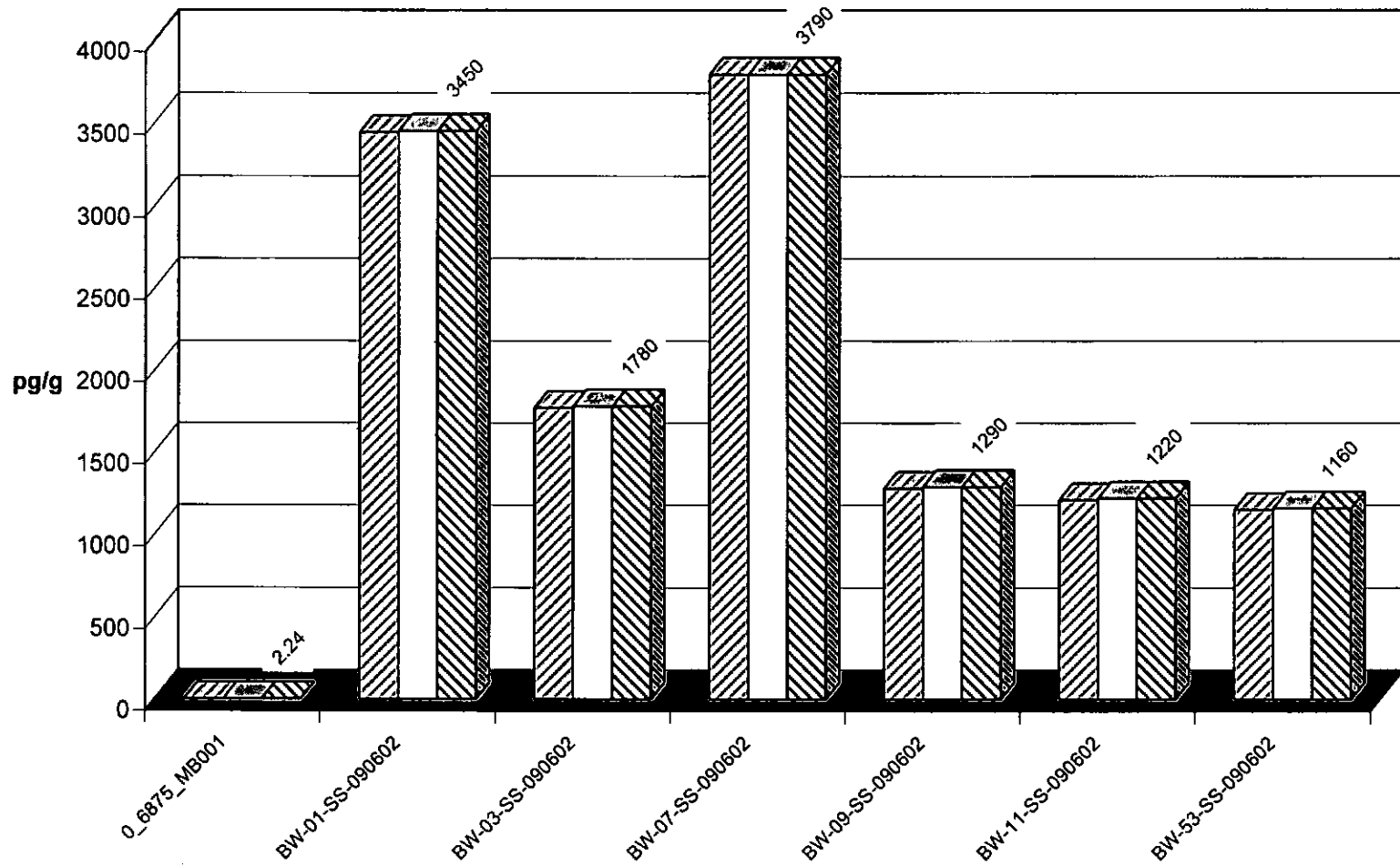
P1376

- ▣ ND=0; EMPC=0
- ▤ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▥ ND=DL; EMPC=EMPC



Totals
Project ID: 080207-02
P1376

- ▨ Total PCDD/Fs (ND=0; EMPC=0)
- Total PCDD/Fs (ND=0; EMPC=EMPC)
- ▩ Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)

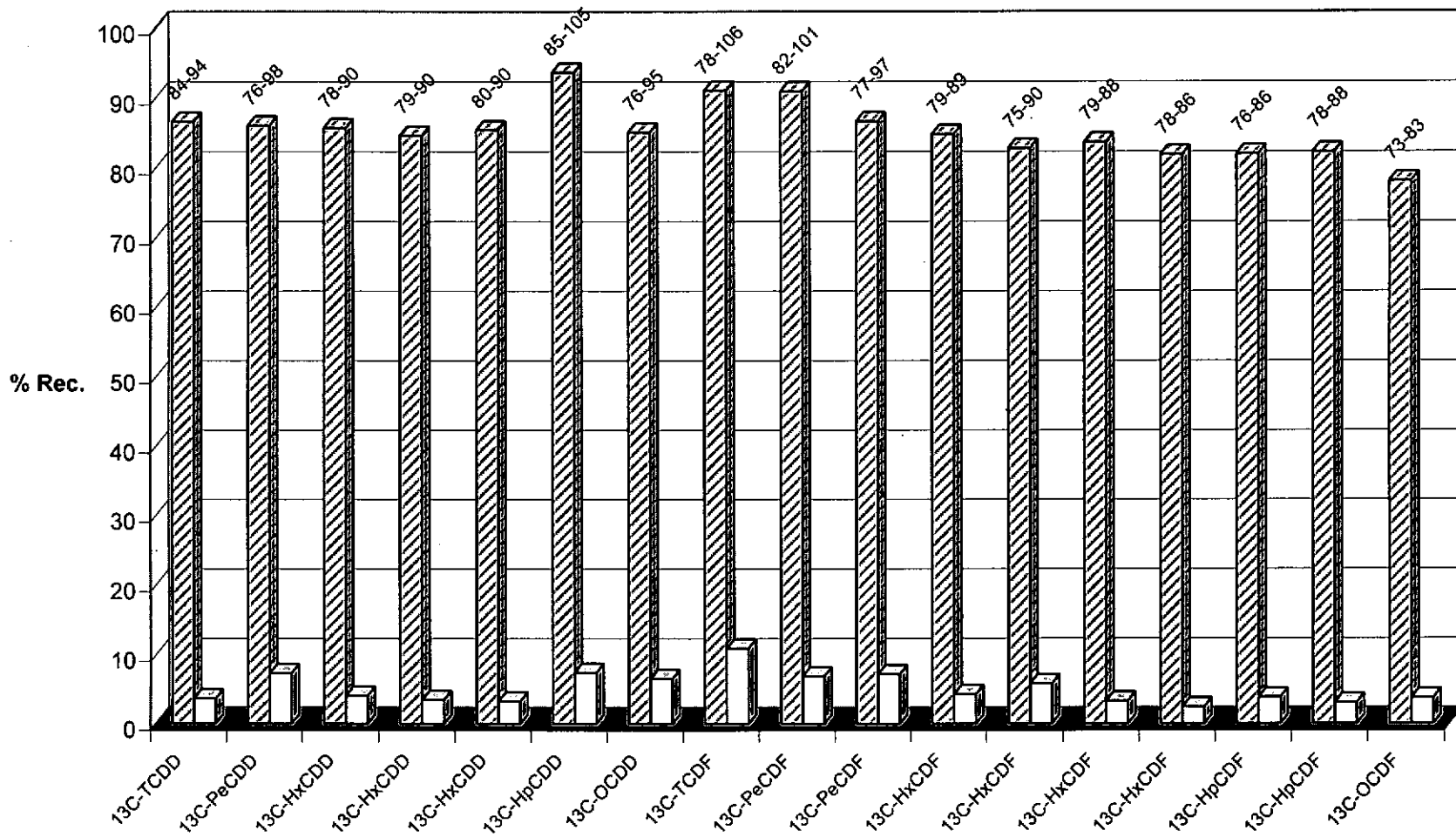


Mean Recoveries of Extraction Standards (N=7)

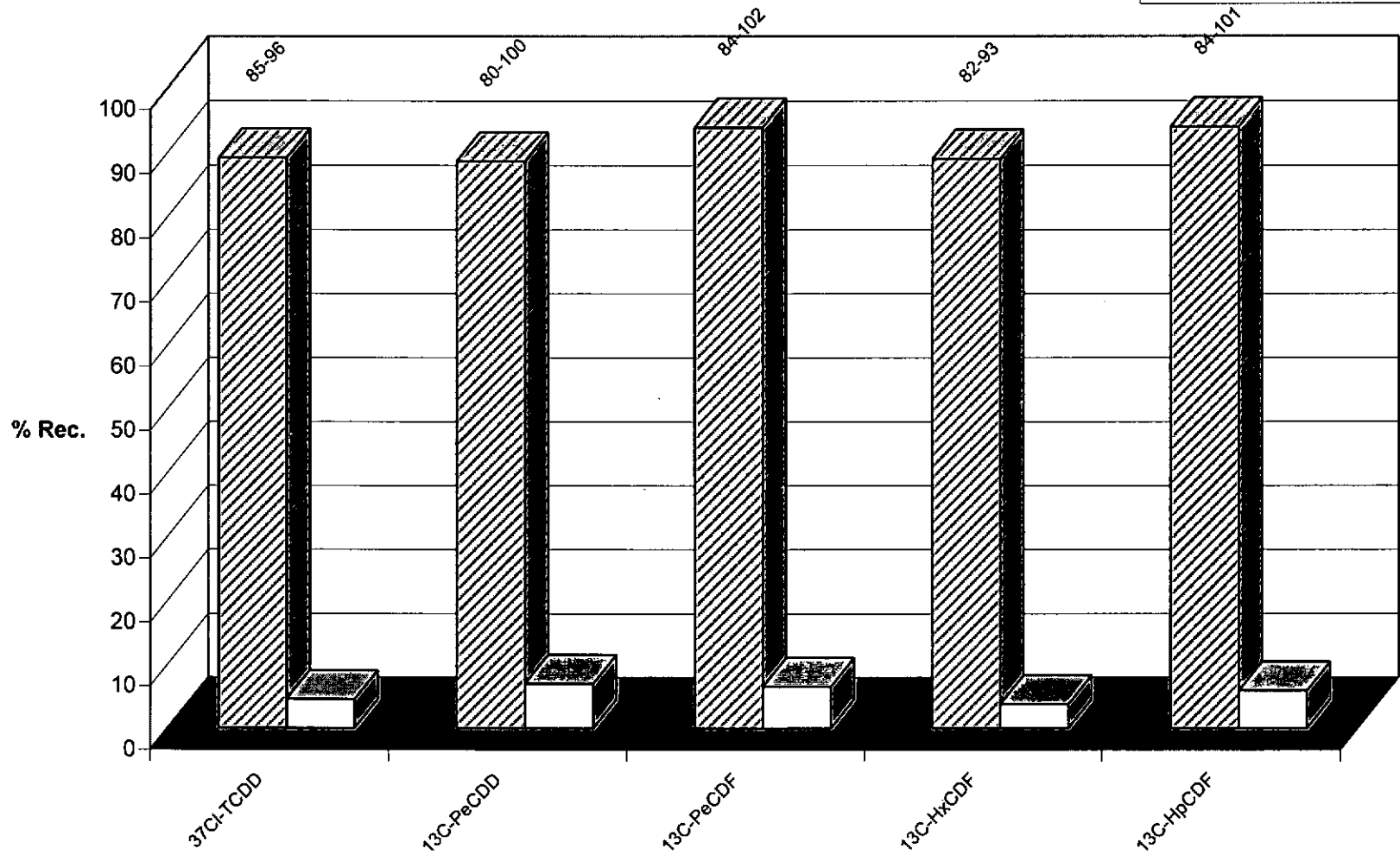
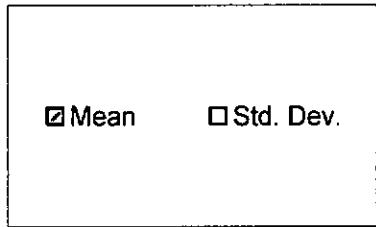
Project ID: 080207-02

P1376

▨ Mean □ Std. Dev.



Mean Recoveries of Clean-Up Standards (N=7)
Project ID: 080207-02
P1376



Sample ID: 0_6875_MB001

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	n/a
Project ID:	080207-02	Weight/Volume:	10.00 g	Sample ID:	MB1_6875_DF_SDS	Date Extracted:	09 Jun 2009
Date Collected:	n/a	% Solids:	n/a	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	11:35:23
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0537			13C-2,3,7,8-TCDD	83.8	
1,2,3,7,8-PeCDD	ND	0.103			13C-1,2,3,7,8-PeCDD	86.6	
1,2,3,4,7,8-HxCDD	ND	0.102			13C-1,2,3,4,7,8-HxCDD	88.3	
1,2,3,6,7,8-HxCDD	ND	0.11			13C-1,2,3,6,7,8-HxCDD	86	
1,2,3,7,8,9-HxCDD	ND	0.118			13C-1,2,3,7,8,9-HxCDD	85.7	
1,2,3,4,6,7,8-HpCDD	ND	0.154			13C-1,2,3,4,6,7,8-HpCDD	84.8	
OCDD	ND	0.452			13C-OCDD	76.2	
2,3,7,8-TCDF	ND	0.0877			13C-2,3,7,8-TCDF	83	
1,2,3,7,8-PeCDF	ND	0.0971			13C-1,2,3,7,8-PeCDF	96.6	
2,3,4,7,8-PeCDF	ND	0.0908			13C-2,3,4,7,8-PeCDF	93.2	
1,2,3,4,7,8-HxCDF	ND	0.0663			13C-1,2,3,4,7,8-HxCDF	85.9	
1,2,3,6,7,8-HxCDF	ND	0.0618			13C-1,2,3,6,7,8-HxCDF	87.4	
2,3,4,6,7,8-HxCDF	ND	0.0702			13C-2,3,4,6,7,8-HxCDF	84.3	
1,2,3,7,8,9-HxCDF	ND	0.0954			13C-1,2,3,7,8,9-HxCDF	82.3	
1,2,3,4,6,7,8-HpCDF	ND	0.103			13C-1,2,3,4,6,7,8-HpCDF	78.1	
1,2,3,4,7,8,9-HpCDF	ND	0.165			13C-1,2,3,4,7,8,9-HpCDF	78.5	
OCDF	ND	0.31			13C-OCDF	72.7	
Totals						CS Recoveries	
TCDDs	ND	0.0537			37Cl-2,3,7,8-TCDD	84.7	
PeCDDs	ND	0.103			13C-1,2,3,4,7-PeCDD	94.6	
HxCDDs	ND	0.11			13C-1,2,3,4,6-PeCDF	98.7	
HpCDDs	ND	0.154			13C-1,2,3,4,6,9-HxCDF	88.9	
					13C-1,2,3,4,6,8,9-HpCDF	84.1	
TCDFs	ND	0.0877					
PeCDFs	ND	0.0939				AS Recoveries	
HxCDFs	ND	0.0721			13C-1,3,6,8-TCDD	72.6	
HpCDFs	ND	0.13			13C-1,3,6,8-TCDF	99.9	
Total PCDD/Fs	0		0				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	0.116		0.116				
TEQ: ND=DL	0.232		0.232				

ANALYTICAL PERSPECTIVES
 Tel: +1 910 794-1613; Toll-Free 866 846-8290
 Fax: +1 910 794-3919

2714 Exchange Drive
 Wilmington, NC 28405
 USA
 info@ultratrace.com
 www.ultratrace.com

Checkcode: 4116

AP D/F 2009 Rev. J

Reviewer: *[Signature]*
 Date: *[Signature]*
11/19/09


Sample ID: 0_6875_MB001

TEQ Summary

Method 1613

Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	MB1_6875_DF_SDS
Client Project ID:	080207-02	Weight/Volume:	10.00 g	QC Batch No.:	6875
Date Collected:	n/a	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	n/a	Dilution:	-	Date Analyzed:	14 Jun 2009 11:35
Lab Project No:	P1376	Units	pg/g	% Solids:	n/a

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	(0.0537)		0.0537	(0.0537)	(0.0537)	(0.0537)
1,2,3,7,8-PeCDD	(0.103)		0.103	(0.0515)	(0.103)	(0.103)
1,2,3,4,7,8-HxCDD	(0.102)		0.102	(0.0102)	(0.0102)	(0.0102)
1,2,3,6,7,8-HxCDD	(0.11)		0.11	(0.011)	(0.011)	(0.011)
1,2,3,7,8,9-HxCDD	(0.118)		0.118	(0.0118)	(0.0118)	(0.0118)
1,2,3,4,6,7,8-HpCDD	(0.154)		0.154	(0.00154)	(0.00154)	(0.00154)
OCDD	(0.452)		0.452	(0.000452)	(0.0000452)	(0.000136)
2,3,7,8-TCDF	(0.0877)		0.0877	(0.00877)	(0.00877)	(0.00877)
1,2,3,7,8-PeCDF	(0.0971)		0.0971	(0.00486)	(0.00486)	(0.00291)
2,3,4,7,8-PeCDF	(0.0908)		0.0908	(0.0454)	(0.0454)	(0.0272)
1,2,3,4,7,8-HxCDF	(0.0663)		0.0663	(0.00663)	(0.00663)	(0.00663)
1,2,3,6,7,8-HxCDF	(0.0618)		0.0618	(0.00618)	(0.00618)	(0.00618)
2,3,4,6,7,8-HxCDF	(0.0702)		0.0702	(0.00702)	(0.00702)	(0.00702)
1,2,3,7,8,9-HxCDF	(0.0954)		0.0954	(0.00954)	(0.00954)	(0.00954)
1,2,3,4,6,7,8-HpCDF	(0.103)		0.103	(0.00103)	(0.00103)	(0.00103)
1,2,3,4,7,8,9-HpCDF	(0.165)		0.165	(0.00165)	(0.00165)	(0.00165)
OCDF	(0.31)		0.31	(0.00031)	(0.000031)	(0.000093)

 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com	TEQ Summaries			
	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	0.116	0.141	0.131
	EMPC = 0, ND = DL	0.232	0.282	0.262
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	0.116	0.141	0.131
EMPC = EMPC, ND = DL	0.232	0.282	0.262	
EMPC = EMPC, < J-level = 0	0	0	0	

Sample ID: BW-01-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data		Date Received: 04 Jun 2009	
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Extracted:	09 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.03 g	Sample ID:	P1376_6875_001	Date Analyzed:	14 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	44.0 %	QC Batch No.:	6875	Time Analyzed:	12:25:00
		Split:	-	Dilution:			

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=1.05]	0.293	J	13C-2,3,7,8-TCDD	85.2	
1,2,3,7,8-PeCDD	1.27			J	13C-1,2,3,7,8-PeCDD	87.3	
1,2,3,4,7,8-HxCDD	2.24			J	13C-1,2,3,4,7,8-HxCDD	86.8	
1,2,3,6,7,8-HxCDD	15				13C-1,2,3,6,7,8-HxCDD	84.8	
1,2,3,7,8,9-HxCDD	5.94				13C-1,2,3,7,8,9-HxCDD	85	
1,2,3,4,6,7,8-HpCDD	264				13C-1,2,3,4,6,7,8-HpCDD	101	
OCDD	2,380				13C-OCDD	90.9	
2,3,7,8-TCDF	1.48				13C-2,3,7,8-TCDF	78.5	
1,2,3,7,8-PeCDF	0.8			J	13C-1,2,3,7,8-PeCDF	92.7	
2,3,4,7,8-PeCDF	1.61			J	13C-2,3,4,7,8-PeCDF	89.9	
1,2,3,4,7,8-HxCDF	1.97			J	13C-1,2,3,4,7,8-HxCDF	87.8	
1,2,3,6,7,8-HxCDF	1.81			J	13C-1,2,3,6,7,8-HxCDF	86.6	
2,3,4,6,7,8-HxCDF	2.65				13C-2,3,4,6,7,8-HxCDF	84.6	
1,2,3,7,8,9-HxCDF	EMPC		0.569	J	13C-1,2,3,7,8,9-HxCDF	82.2	
1,2,3,4,6,7,8-HpCDF	44.6				13C-1,2,3,4,6,7,8-HpCDF	85.1	
1,2,3,4,7,8,9-HpCDF	2.72				13C-1,2,3,4,7,8,9-HpCDF	84.6	
OCDF	118				13C-OCDF	80.1	
Totals						CS Recoveries	
TCDDs	14.4		16.2		37Cl-2,3,7,8-TCDD	86.8	
PeCDDs	17.8		18.6		13C-1,2,3,4,7-PeCDD	91.5	
HxCDDs	112				13C-1,2,3,4,6-PeCDF	96.2	
HpCDDs	559				13C-1,2,3,4,6,9-HxCDF	91.2	
					13C-1,2,3,4,6,8,9-HpCDF	101	
TCDFs	15.1		17.2			AS Recoveries	
PeCDFs	11.6		20.7			71.5	
HxCDFs	64.6		66.2		13C-1,3,6,8-TCDD	96	
HpCDFs	148				13C-1,3,6,8-TCDF		
Total PCDD/Fs	3,440		3,450				
ITEF TEQs							
TEQ: ND=0	10.2		10.5				
TEQ: ND=DL/2	10.2		10.5				
TEQ: ND=DL	10.3		10.5				

2714 Exchange Drive
Wilmington, NC 28405
USA

ANALYTICAL PERSPECTIVES

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Checkcode: 4424


AP D/F 2009 Rev. J

Reviewer: *[Signature]*
Date: *[Signature]*

Sample ID: BW-01-SS-090602 **TEQ Summary** **Method 1613**

Client Project Name: Anchor Environmental, LLC	Matrix: Solids	Lab Sample ID: P1376_6875_001
Client Project ID: 080207-02	Weight/Volume: 10.03 g	QC Batch No.: 6875
Date Collected: 02 Jun 2009	Split: -	Date Extracted: 09 Jun 2009
Date Received: 04 Jun 2009	Dilution: -	Date Analyzed: 14 Jun 2009 12:25
Lab Project No: P1376	Units: pg/g	% Solids: 44.0 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	0.293	J	0.0615	0.293	0.293	0.293
1,2,3,7,8-PeCDD	1.27	J	0.132	0.634	1.27	1.27
1,2,3,4,7,8-HxCDD	2.24	J	0.428	0.224	0.224	0.224
1,2,3,6,7,8-HxCDD	15		0.473	1.5	1.5	1.5
1,2,3,7,8,9-HxCDD	5.94		0.489	0.594	0.594	0.594
1,2,3,4,6,7,8-HpCDD	264		2.3	2.64	2.64	2.64
OCDD	2380		5.42	2.38	0.238	0.713
2,3,7,8-TCDF	1.48		0.0573	0.148	0.148	0.148
1,2,3,7,8-PeCDF	0.8	J	0.15	0.04	0.04	0.024
2,3,4,7,8-PeCDF	1.61	J	0.134	0.806	0.806	0.484
1,2,3,4,7,8-HxCDF	1.97	J	0.111	0.197	0.197	0.197
1,2,3,6,7,8-HxCDF	1.81	J	0.111	0.181	0.181	0.181
2,3,4,6,7,8-HxCDF	2.65		0.118	0.265	0.265	0.265
1,2,3,7,8,9-HxCDF	[0.569]	J	0.158	[0.0569]	[0.0569]	[0.0569]
1,2,3,4,6,7,8-HpCDF	44.6		0.386	0.446	0.446	0.446
1,2,3,4,7,8,9-HpCDF	2.72		0.597	0.0272	0.0272	0.0272
OCDF	118		1.01	0.118	0.0118	0.0353

 <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com</p>	TEQ Summaries			
	EMPC = 0, ND = 0	10.5	8.88	9.04
	EMPC = 0, ND = DL / 2	10.5	8.89	9.05
	EMPC = 0, ND = DL	10.5	8.9	9.06
	EMPC = 0, < J-level = 0	8.12	5.87	6.37
	EMPC = EMPC, ND = 0	10.5	8.94	9.1
	EMPC = EMPC, ND = DL / 2	10.5	8.94	9.1
	EMPC = EMPC, ND = DL	10.5	8.94	9.1
EMPC = EMPC, < J-level = 0	8.12	5.87	6.37	

Sample ID: BW-03-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data		Date Received: 04 Jun 2009	
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Extracted:	09 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.26 g	Sample ID:	P1376_6875_002	Date Analyzed:	14 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	42.0 %	QC Batch No.:	6875	Time Analyzed:	13:14:38
		Split:	-	Dilution:	-		

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.312	[Ra=0.782]		J	13C-2,3,7,8-TCDD	89.3	
1,2,3,7,8-PeCDD	1.07			J	13C-1,2,3,7,8-PeCDD	91.8	
1,2,3,4,7,8-HxCDD	1.49			J	13C-1,2,3,4,7,8-HxCDD	78.3	
1,2,3,6,7,8-HxCDD	8.2				13C-1,2,3,6,7,8-HxCDD	78.8	
1,2,3,7,8,9-HxCDD	3.78				13C-1,2,3,7,8,9-HxCDD	79.7	
1,2,3,4,6,7,8-HpCDD	130				13C-1,2,3,4,6,7,8-HpCDD	94.7	
OCDD	1,160				13C-OCDD	81.4	
2,3,7,8-TCDF	1.22				13C-2,3,7,8-TCDF	78.5	
1,2,3,7,8-PeCDF	EMPC		0.474	J	13C-1,2,3,7,8-PeCDF	92.3	
2,3,4,7,8-PeCDF	1.05			J	13C-2,3,4,7,8-PeCDF	86.3	
1,2,3,4,7,8-HxCDF	1.26			J	13C-1,2,3,4,7,8-HxCDF	79.4	
1,2,3,6,7,8-HxCDF	1.09			J	13C-1,2,3,6,7,8-HxCDF	74.6	
2,3,4,6,7,8-HxCDF	1.76			J	13C-2,3,4,6,7,8-HxCDF	78.6	
1,2,3,7,8,9-HxCDF	EMPC		0.336	J	13C-1,2,3,7,8,9-HxCDF	78.4	
1,2,3,4,6,7,8-HpCDF	27.9				13C-1,2,3,4,6,7,8-HpCDF	76.3	
1,2,3,4,7,8,9-HpCDF	1.43			J	13C-1,2,3,4,7,8,9-HpCDF	80.5	
OCDF	64.8				13C-OCDF	74.3	

Totals						CS Recoveries	
TCDDs	11.7		12.6		37Cl-2,3,7,8-TCDD	94.4	
PeCDDs	12.6		13.7		13C-1,2,3,4,7-PeCDD	86.9	
HxCDDs	66.8		67.9		13C-1,2,3,4,6-PeCDF	98	
HpCDDs	300				13C-1,2,3,4,6,9-HxCDF	86.7	
					13C-1,2,3,4,6,8,9-HpCDF	97.4	
TCDFs	13.3		14.7				
PeCDFs	13.6		14.5				
HxCDFs	36.2		37.3		13C-1,3,6,8-TCDD	67.9	
HpCDFs	89.6		90.3		13C-1,3,6,8-TCDF	93	
Total PCDD/Fs	1,770		1,780				

ITEF TEQs				ANALYTICAL PERSPECTIVES	
TEQ: ND=0	6.07		6.13	2714 Exchange Drive	
TEQ: ND=DL/2	6.08		6.13	Wilmington, NC 28405	
TEQ: ND=DL	6.09		6.13	USA	
				Tel: +1 910 794-1613; Toll-Free 866 846-8290	
				Fax: +1 910 794-3919	
				info@ultratrace.com	
				www.ultratrace.com	

Checkcode: 0519

AP D/F 2009 Rev. J

Reviewer: *[Signature]*
 Date: *10/19/09*

Sample ID: BW-03-SS-090602

TEQ Summary


Method 1613

Client Project Name: Anchor Environmental, LLC
 Client Project ID: 080207-02
 Date Collected: 02 Jun 2009
 Date Received: 04 Jun 2009
 Lab Project No: P1376

Matrix: Solids
 Weight/Volume: 10.26 g
 Split: -
 Dilution: -
 Units: pg/g

Lab Sample ID: P1376_6875_002
 QC Batch No.: 6875
 Date Extracted: 09 Jun 2009
 Date Analyzed: 14 Jun 2009 13:14
 % Solids: 42.0 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.312]	J	0.114	[0.312]	[0.312]	[0.312]
1,2,3,7,8-PeCDD	1.07	J	0.128	0.537	1.07	1.07
1,2,3,4,7,8-HxCDD	1.49	J	0.305	0.149	0.149	0.149
1,2,3,6,7,8-HxCDD	8.2		0.338	0.82	0.82	0.82
1,2,3,7,8,9-HxCDD	3.78		0.34	0.378	0.378	0.378
1,2,3,4,6,7,8-HpCDD	130		1.72	1.3	1.3	1.3
OCDD	1160		5.09	1.16	0.116	0.348
2,3,7,8-TCDF	1.22		0.0811	0.122	0.122	0.122
1,2,3,7,8-PeCDF	[0.474]	J	0.102	[0.0237]	[0.0237]	[0.0142]
2,3,4,7,8-PeCDF	1.05	J	0.0982	0.524	0.524	0.314
1,2,3,4,7,8-HxCDF	1.26	J	0.112	0.126	0.126	0.126
1,2,3,6,7,8-HxCDF	1.09	J	0.109	0.109	0.109	0.109
2,3,4,6,7,8-HxCDF	1.76	J	0.111	0.176	0.176	0.176
1,2,3,7,8,9-HxCDF	[0.336]	J	0.143	[0.0336]	[0.0336]	[0.0336]
1,2,3,4,6,7,8-HpCDF	27.9		0.214	0.279	0.279	0.279
1,2,3,4,7,8,9-HpCDF	1.43	J	0.311	0.0143	0.0143	0.0143
OCDF	64.8		0.725	0.0648	0.00648	0.0194

 <p>ANALYTICAL PERSPECTIVES</p> <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com</p>	TEQ Summaries					
	EMPC = 0, ND = 0			5.76	5.19	5.23
	EMPC = 0, ND = DL / 2			5.82	5.26	5.29
	EMPC = 0, ND = DL			5.89	5.32	5.36
	EMPC = 0, < J-level = 0			4.12	3.02	3.26
	EMPC = EMPC, ND = 0			6.13	5.56	5.59
	EMPC = EMPC, ND = DL / 2			6.13	5.56	5.59
	EMPC = EMPC, ND = DL			6.13	5.56	5.59
EMPC = EMPC, < J-level = 0			4.12	3.02	3.26	

Sample ID: BW-07-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.41 g	Sample ID:	P1376_6875_003	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	63.7 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	14:04:11
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.264	[Ra=0.677]		J	13C-2,3,7,8-TCDD	93.8	
1,2,3,7,8-PeCDD	1.48			J	13C-1,2,3,7,8-PeCDD	98.2	
1,2,3,4,7,8-HxCDD	6.48				13C-1,2,3,4,7,8-HxCDD	89.4	
1,2,3,6,7,8-HxCDD	9.59				13C-1,2,3,6,7,8-HxCDD	90.1	
1,2,3,7,8,9-HxCDD	6				13C-1,2,3,7,8,9-HxCDD	90	
1,2,3,4,6,7,8-HpCDD	301				13C-1,2,3,4,6,7,8-HpCDD	105	
OCDD	2,810				13C-OCDD	95.3	
2,3,7,8-TCDF	0.825				13C-2,3,7,8-TCDF	106	
1,2,3,7,8-PeCDF	EMPC		0.423	J	13C-1,2,3,7,8-PeCDF	101	
2,3,4,7,8-PeCDF	1.03			J	13C-2,3,4,7,8-PeCDF	96.9	
1,2,3,4,7,8-HxCDF	1.75			J	13C-1,2,3,4,7,8-HxCDF	89.3	
1,2,3,6,7,8-HxCDF	1.53			J	13C-1,2,3,6,7,8-HxCDF	90.4	
2,3,4,6,7,8-HxCDF	2.35			J	13C-2,3,4,6,7,8-HxCDF	87.5	
1,2,3,7,8,9-HxCDF	0.635			J	13C-1,2,3,7,8,9-HxCDF	86.1	
1,2,3,4,6,7,8-HpCDF	41.3				13C-1,2,3,4,6,7,8-HpCDF	86.2	
1,2,3,4,7,8,9-HpCDF	2.4			J	13C-1,2,3,4,7,8,9-HpCDF	87.8	
OCDF	121				13C-OCDF	83.4	
Totals						CS Recoveries	
TCDDs	13.5		14.3		37Cl-2,3,7,8-TCDD	96.1	
PeCDDs	13.6				13C-1,2,3,4,7-PeCDD	99.5	
HxCDDs	75.7		77.3		13C-1,2,3,4,6-PeCDF	102	
HpCDDs	552				13C-1,2,3,4,6,9-HxCDF	92.7	
					13C-1,2,3,4,6,8,9-HpCDF	99.6	
TCDFs	9.57		10.9				
PeCDFs	12		13.1				
HxCDFs	52.8						
HpCDFs	124		125				
Total PCDD/Fs	3,790		3,790				
ITEF TEQs							
TEQ: ND=0	10.8		10.8				
TEQ: ND=DL/2	10.8		10.8				
TEQ: ND=DL	10.8		10.8				

ANALYTICAL PERSPECTIVES
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Checkcode: 0811

AP D/F 2009 Rev. J

Reviewer: _____
 Date: _____
 6/14/09

Sample ID: BW-07-SS-090602

TEQ Summary

Method 1613

Client Project Name: Anchor Environmental, LLC
 Client Project ID: 080207-02
 Date Collected: 02 Jun 2009
 Date Received: 04 Jun 2009
 Lab Project No: P1376

Matrix: Solids
 Weight/Volume: 10.41 g
 Split: -
 Dilution: -
 Units: pg/g

Lab Sample ID: P1376_6875_003
 QC Batch No.: 6875
 Date Extracted: 09 Jun 2009
 Date Analyzed: 14 Jun 2009 14:04
 % Solids: 63.7 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.264]	J	0.149	[0.264]	[0.264]	[0.264]
1,2,3,7,8-PeCDD	1.48	J	0.161	0.741	1.48	1.48
1,2,3,4,7,8-HxCDD	6.48		0.415	0.648	0.648	0.648
1,2,3,6,7,8-HxCDD	9.59		0.456	0.959	0.959	0.959
1,2,3,7,8,9-HxCDD	6		0.474	0.6	0.6	0.6
1,2,3,4,6,7,8-HpCDD	301		3.06	3.01	3.01	3.01
OCDD	2810		5.2	2.81	0.281	0.844
2,3,7,8-TCDF	0.825		0.0925	0.0825	0.0825	0.0825
1,2,3,7,8-PeCDF	[0.423]	J	0.109	[0.0212]	[0.0212]	[0.0127]
2,3,4,7,8-PeCDF	1.03	J	0.106	0.515	0.515	0.309
1,2,3,4,7,8-HxCDF	1.75	J	0.119	0.175	0.175	0.175
1,2,3,6,7,8-HxCDF	1.53	J	0.114	0.153	0.153	0.153
2,3,4,6,7,8-HxCDF	2.35	J	0.123	0.235	0.235	0.235
1,2,3,7,8,9-HxCDF	0.635	J	0.166	0.0635	0.0635	0.0635
1,2,3,4,6,7,8-HpCDF	41.3		0.254	0.413	0.413	0.413
1,2,3,4,7,8,9-HpCDF	2.4	J	0.396	0.024	0.024	0.024
OCDF	121		1.44	0.121	0.0121	0.0364



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TEQ Summaries

EMPC = 0, ND = 0	10.6	8.66	9.04
EMPC = 0, ND = DL / 2	10.6	8.73	9.11
EMPC = 0, ND = DL	10.7	8.81	9.19
EMPC = 0, < J-level = 0	8.65	6.01	6.6
EMPC = EMPC, ND = 0	10.8	8.94	9.31
EMPC = EMPC, ND = DL / 2	10.8	8.94	9.31
EMPC = EMPC, ND = DL	10.8	8.94	9.31
EMPC = EMPC, < J-level = 0	8.65	6.01	6.6

Sample ID: BW-09-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.36 g	Sample ID:	P1376_6875_004	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	52.6 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	14:53:42
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=1.03]	0.57		13C-2,3,7,8-TCDD	84.2	
1,2,3,7,8-PeCDD	EMPC		1.49	J	13C-1,2,3,7,8-PeCDD	81.2	
1,2,3,4,7,8-HxCDD	2.46				13C-1,2,3,4,7,8-HxCDD	84.2	
1,2,3,6,7,8-HxCDD	7.36				13C-1,2,3,6,7,8-HxCDD	83.1	
1,2,3,7,8,9-HxCDD	3.88				13C-1,2,3,7,8,9-HxCDD	85.3	
1,2,3,4,6,7,8-HpCDD	98				13C-1,2,3,4,6,7,8-HpCDD	94.3	
OCDD	686				13C-OCDD	86.9	
2,3,7,8-TCDF	3.45				13C-2,3,7,8-TCDF	97.3	
1,2,3,7,8-PeCDF	1.16			J	13C-1,2,3,7,8-PeCDF	89.1	
2,3,4,7,8-PeCDF	2.8				13C-2,3,4,7,8-PeCDF	83.7	
1,2,3,4,7,8-HxCDF	3.11				13C-1,2,3,4,7,8-HxCDF	80.3	
1,2,3,6,7,8-HxCDF	2.18			J	13C-1,2,3,6,7,8-HxCDF	79.2	
2,3,4,6,7,8-HxCDF	2.86				13C-2,3,4,6,7,8-HxCDF	81.7	
1,2,3,7,8,9-HxCDF	0.785			J	13C-1,2,3,7,8,9-HxCDF	80.4	
1,2,3,4,6,7,8-HpCDF	19.9				13C-1,2,3,4,6,7,8-HpCDF	82.1	
1,2,3,4,7,8,9-HpCDF	1.51			J	13C-1,2,3,4,7,8,9-HpCDF	82.7	
OCDF	33.6				13C-OCDF	79.9	
Totals						CS Recoveries	
TCDDs	48.6		50		37Cl-2,3,7,8-TCDD	85	
PeCDDs	44.5		46		13C-1,2,3,4,7-PeCDD	85.9	
HxCDDs	83.8				13C-1,2,3,4,6-PeCDF	90	
HpCDDs	225				13C-1,2,3,4,6,9-HxCDF	82	
					13C-1,2,3,4,6,8,9-HpCDF	92.3	
TCDFs	42.4		43.2				
PeCDFs	22.4		28.5				
HxCDFs	39.3		39.6				
HpCDFs	52.5						
Total PCDD/Fs	1,280		1,290			AS Recoveries	
ITEF TEQs							
TEQ: ND=0	5.98		7.3				
TEQ: ND=DL/2	6.05		7.3				
TEQ: ND=DL	6.12		7.3				



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Reviewer: *[Signature]*
 Date: *19 Jun 09*

Sample ID: BW-09-SS-090602 **TEQ Summary** **Method 1613**

Client Project Name: Anchor Environmental, LLC	Matrix: Solids	Lab Sample ID: P1376_6875_004
Client Project ID: 080207-02	Weight/Volume: 10.36 g	QC Batch No.: 6875
Date Collected: 02 Jun 2009	Split: -	Date Extracted: 09 Jun 2009
Date Received: 04 Jun 2009	Dilution: -	Date Analyzed: 14 Jun 2009 14:53
Lab Project No: P1376	Units: pg/g	% Solids: 52.6 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.57]		0.0766	[0.57]	[0.57]	[0.57]
1,2,3,7,8-PeCDD	[1.49]	J	0.12	[0.747]	[1.49]	[1.49]
1,2,3,4,7,8-HxCDD	2.46		0.258	0.246	0.246	0.246
1,2,3,6,7,8-HxCDD	7.36		0.281	0.736	0.736	0.736
1,2,3,7,8,9-HxCDD	3.88		0.287	0.388	0.388	0.388
1,2,3,4,6,7,8-HpCDD	98		0.909	0.98	0.98	0.98
OCDD	686		1.98	0.686	0.0686	0.206
2,3,7,8-TCDF	3.45		0.0509	0.345	0.345	0.345
1,2,3,7,8-PeCDF	1.16	J	0.29	0.0579	0.0579	0.0348
2,3,4,7,8-PeCDF	2.8		0.277	1.4	1.4	0.84
1,2,3,4,7,8-HxCDF	3.11		0.153	0.311	0.311	0.311
1,2,3,6,7,8-HxCDF	2.18	J	0.149	0.218	0.218	0.218
2,3,4,6,7,8-HxCDF	2.86		0.152	0.286	0.286	0.286
1,2,3,7,8,9-HxCDF	0.785	J	0.209	0.0785	0.0785	0.0785
1,2,3,4,6,7,8-HpCDF	19.9		0.0813	0.199	0.199	0.199
1,2,3,4,7,8,9-HpCDF	1.51	J	0.12	0.0151	0.0151	0.0151
OCDF	33.6		0.422	0.0336	0.00336	0.0101

 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com	TEQ Summaries			
	EMPC = 0, ND = 0	5.98	5.33	4.89
	EMPC = 0, ND = DL / 2	6.05	5.43	4.99
	EMPC = 0, ND = DL	6.12	5.53	5.09
	EMPC = 0, < J-level = 0	5.61	4.96	4.55
	EMPC = EMPC, ND = 0	7.3	7.39	6.96
	EMPC = EMPC, ND = DL / 2	7.3	7.39	6.96
	EMPC = EMPC, ND = DL	7.3	7.39	6.96
EMPC = EMPC, < J-level = 0	6.18	5.53	5.12	

Sample ID: BW-11-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.08 g	Sample ID:	P1376_6875_005	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	42.7 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	15:43:15
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=0.926]	0.223	J	13C-2,3,7,8-TCDD	85.5	
1,2,3,7,8-PeCDD	0.801			J	13C-1,2,3,7,8-PeCDD	76.5	
1,2,3,4,7,8-HxCDD	1.38			J	13C-1,2,3,4,7,8-HxCDD	89.7	
1,2,3,6,7,8-HxCDD	5.08				13C-1,2,3,6,7,8-HxCDD	86.2	
1,2,3,7,8,9-HxCDD	2.82				13C-1,2,3,7,8,9-HxCDD	88.2	
1,2,3,4,6,7,8-HpCDD	89.8				13C-1,2,3,4,6,7,8-HpCDD	87.5	
OCDD	731				13C-OCDD	80.7	
2,3,7,8-TCDF	1.16				13C-2,3,7,8-TCDF	96.9	
1,2,3,7,8-PeCDF	0.402			J	13C-1,2,3,7,8-PeCDF	82.1	
2,3,4,7,8-PeCDF	0.928			J	13C-2,3,4,7,8-PeCDF	77.2	
1,2,3,4,7,8-HxCDF	0.821			J	13C-1,2,3,4,7,8-HxCDF	89.3	
1,2,3,6,7,8-HxCDF	0.693			J	13C-1,2,3,6,7,8-HxCDF	83.7	
2,3,4,6,7,8-HxCDF	1.12			J	13C-2,3,4,6,7,8-HxCDF	87.5	
1,2,3,7,8,9-HxCDF	0.275			J	13C-1,2,3,7,8,9-HxCDF	83.2	
1,2,3,4,6,7,8-HpCDF	12.2				13C-1,2,3,4,6,7,8-HpCDF	85.5	
1,2,3,4,7,8,9-HpCDF	0.763			J	13C-1,2,3,4,7,8,9-HpCDF	81.2	
OCDF	33.3				13C-OCDF	76.7	
Totals						CS Recoveries	
TCDDs	19.8		22.8		37Cl-2,3,7,8-TCDD	87.2	
PeCDDs	19.2		21.6		13C-1,2,3,4,7-PeCDD	79.9	
HxCDDs	57.2				13C-1,2,3,4,6-PeCDF	84.5	
HpCDDs	272				13C-1,2,3,4,6,9-HxCDF	92.3	
					13C-1,2,3,4,6,8,9-HpCDF	93.1	
TCDFs	11.7		13.3				
PeCDFs	6.3		9.3				
HxCDFs	19.2		19.5		13C-1,3,6,8-TCDD	78.1	
HpCDFs	37.9				13C-1,3,6,8-TCDF	94	
						AS Recoveries	
Total PCDD/Fs	1,210		1,220				
ITEF TEQs							
TEQ: ND=0	4.01		4.23				
TEQ: ND=DL/2	4.05		4.23				
TEQ: ND=DL	4.08		4.23				



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Reviewer: *[Signature]*
 Date: *10/19/09*

Sample ID: BW-11-SS-090602

TEQ Summary

Method 1613

Client Project Name: Anchor Environmental, LLC
 Client Project ID: 080207-02
 Date Collected: 02 Jun 2009
 Date Received: 04 Jun 2009
 Lab Project No: P1376

Matrix: Solids
 Weight/Volume: 10.08 g
 Split: -
 Dilution: -
 Units: pg/g

Lab Sample ID: P1376_6875_005
 QC Batch No.: 6875
 Date Extracted: 09 Jun 2009
 Date Analyzed: 14 Jun 2009 15:43
 % Solids: 42.7 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	0.223	J	0.0715	0.223	0.223	0.223
1,2,3,7,8-PeCDD	0.801	J	0.109	0.4	0.801	0.801
1,2,3,4,7,8-HxCDD	1.38	J	0.306	0.138	0.138	0.138
1,2,3,6,7,8-HxCDD	5.08		0.341	0.508	0.508	0.508
1,2,3,7,8,9-HxCDD	2.82		0.369	0.282	0.282	0.282
1,2,3,4,6,7,8-HpCDD	89.8		1.48	0.898	0.898	0.898
OCDD	731		3.34	0.731	0.0731	0.219
2,3,7,8-TCDF	1.16		0.0696	0.116	0.116	0.116
1,2,3,7,8-PeCDF	0.402	J	0.231	0.0201	0.0201	0.0121
2,3,4,7,8-PeCDF	0.928	J	0.238	0.464	0.464	0.278
1,2,3,4,7,8-HxCDF	0.821	J	0.159	0.0821	0.0821	0.0821
1,2,3,6,7,8-HxCDF	0.693	J	0.157	0.0693	0.0693	0.0693
2,3,4,6,7,8-HxCDF	1.12	J	0.163	0.112	0.112	0.112
1,2,3,7,8,9-HxCDF	0.275	J	0.216	0.0275	0.0275	0.0275
1,2,3,4,6,7,8-HpCDF	12.2		0.172	0.122	0.122	0.122
1,2,3,4,7,8,9-HpCDF	0.763	J	0.261	0.00763	0.00763	0.00763
OCDF	33.3		0.374	0.0333	0.00333	0.01



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TEQ Summaries			
EMPC = 0, ND = 0	4.23	3.95	3.91
EMPC = 0, ND = DL / 2	4.23	3.95	3.91
EMPC = 0, ND = DL	4.23	3.95	3.91
EMPC = 0, < J-level = 0	2.69	2	2.16
EMPC = EMPC, ND = 0	4.23	3.95	3.91
EMPC = EMPC, ND = DL / 2	4.23	3.95	3.91
EMPC = EMPC, ND = DL	4.23	3.95	3.91
EMPC = EMPC, < J-level = 0	2.69	2	2.16

Sample ID: BW-53-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data		Date Received: 04 Jun 2009	
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.31 g	Sample ID:	P1376_6875_006	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	46.2 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	16:32:48

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.183	[Ra=0.678]		J	13C-2,3,7,8-TCDD	84.5	
1,2,3,7,8-PeCDD	0.684			J	13C-1,2,3,7,8-PeCDD	81	
1,2,3,4,7,8-HxCDD	1.56			J	13C-1,2,3,4,7,8-HxCDD	83.4	
1,2,3,6,7,8-HxCDD	6.76				13C-1,2,3,6,7,8-HxCDD	83.3	
1,2,3,7,8,9-HxCDD	2.86				13C-1,2,3,7,8,9-HxCDD	84	
1,2,3,4,6,7,8-HpCDD	93.5				13C-1,2,3,4,6,7,8-HpCDD	88.3	
OCDD	734				13C-OCDD	84.1	
2,3,7,8-TCDF	1.03				13C-2,3,7,8-TCDF	97.1	
1,2,3,7,8-PeCDF	0.408			J	13C-1,2,3,7,8-PeCDF	82.9	
2,3,4,7,8-PeCDF	0.824			J	13C-2,3,4,7,8-PeCDF	79.5	
1,2,3,4,7,8-HxCDF	0.86			J	13C-1,2,3,4,7,8-HxCDF	81.7	
1,2,3,6,7,8-HxCDF	0.778			J	13C-1,2,3,6,7,8-HxCDF	77.5	
2,3,4,6,7,8-HxCDF	1.31			J	13C-2,3,4,6,7,8-HxCDF	81.5	
1,2,3,7,8,9-HxCDF	0.357			J	13C-1,2,3,7,8,9-HxCDF	80.7	
1,2,3,4,6,7,8-HpCDF	17.3				13C-1,2,3,4,6,7,8-HpCDF	80.9	
1,2,3,4,7,8,9-HpCDF	0.952			J	13C-1,2,3,4,7,8,9-HpCDF	80.7	
OCDF	35.6				13C-OCDF	79.9	
Totals						CS Recoveries	
TCDDs	10.6		11.8		37Cl-2,3,7,8-TCDD	89.8	
PeCDDs	9.52		10.9		13C-1,2,3,4,7-PeCDD	81.9	
HxCDDs	53.5		54.2		13C-1,2,3,4,6-PeCDF	87.6	
HpCDDs	218				13C-1,2,3,4,6,9-HxCDF	89	
					13C-1,2,3,4,6,8,9-HpCDF	90.2	
TCDFs	8.97		11.3				
PeCDFs	5.97		8.99			AS Recoveries	
HxCDFs	25.7		26.2		13C-1,3,6,8-TCDD	81.8	
HpCDFs	51.6		52		13C-1,3,6,8-TCDF	101	
Total PCDD/Fs	1,150		1,160				
ITEF TEQs							
TEQ: ND=0	4.4		4.4				
TEQ: ND=DL/2	4.4		4.4				
TEQ: ND=DL	4.4		4.4				

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AP D/F 2009 Rev. J

Reviewer: *[Signature]*
Date: *19 June 09*

Sample ID: BW-53-SS-090602**TEQ Summary****Method 1613**

Client Project Name: Anchor Environmental, LLC
 Client Project ID: 080207-02
 Date Collected: 02 Jun 2009
 Date Received: 04 Jun 2009
 Lab Project No: P1376

Matrix: Solids
 Weight/Volume: 10.31 g
 Split: -
 Dilution: -
 Units: pg/g

Lab Sample ID: P1376_6875_006
 QC Batch No.: 6875
 Date Extracted: 09 Jun 2009
 Date Analyzed: 14 Jun 2009 16:32
 % Solids: 46.2 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.183]	J	0.0878	[0.183]	[0.183]	[0.183]
1,2,3,7,8-PeCDD	0.684	J	0.1	0.342	0.684	0.684
1,2,3,4,7,8-HxCDD	1.56	J	0.151	0.156	0.156	0.156
1,2,3,6,7,8-HxCDD	6.76		0.161	0.676	0.676	0.676
1,2,3,7,8,9-HxCDD	2.86		0.171	0.286	0.286	0.286
1,2,3,4,6,7,8-HpCDD	93.5		1.13	0.935	0.935	0.935
OCDD	734		2.12	0.734	0.0734	0.22
2,3,7,8-TCDF	1.03		0.0391	0.103	0.103	0.103
1,2,3,7,8-PeCDF	0.408	J	0.144	0.0204	0.0204	0.0122
2,3,4,7,8-PeCDF	0.824	J	0.131	0.412	0.412	0.247
1,2,3,4,7,8-HxCDF	0.86	J	0.181	0.086	0.086	0.086
1,2,3,6,7,8-HxCDF	0.778	J	0.176	0.0778	0.0778	0.0778
2,3,4,6,7,8-HxCDF	1.31	J	0.178	0.131	0.131	0.131
1,2,3,7,8,9-HxCDF	0.357	J	0.234	0.0357	0.0357	0.0357
1,2,3,4,6,7,8-HpCDF	17.3		0.132	0.173	0.173	0.173
1,2,3,4,7,8,9-HpCDF	0.952	J	0.193	0.00952	0.00952	0.00952
OCDF	35.6		0.539	0.0356	0.00356	0.0107

TEQ Summaries

EMPC = 0, ND = 0	4.21	3.86	3.84
EMPC = 0, ND = DL / 2	4.26	3.91	3.89
EMPC = 0, ND = DL	4.3	3.95	3.93
EMPC = 0, < J-level = 0	2.94	2.25	2.4
EMPC = EMPC, ND = 0	4.4	4.05	4.03
EMPC = EMPC, ND = DL / 2	4.4	4.05	4.03
EMPC = EMPC, ND = DL	4.4	4.05	4.03
EMPC = EMPC, < J-level = 0	2.94	2.25	2.4



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 Tel: +1 910 794-1613; Toll-Free 866 846-8290
 Fax: +1 910 794-3919
 info@ultratrace.com
 www.ultratrace.com



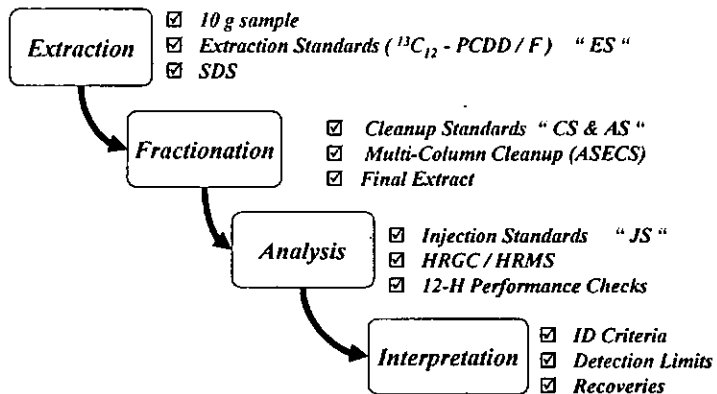
ANALYTICAL PERSPECTIVES

SAMPLE PATH

AP PROJECT No.: P1376

PROTOCOL: 8290B / 1613B SOLID

SAMPLE PROCESSING



DIF: A&B

SPIKE PROFILE

(AX)8290B): 0.2 NG (200 μL; 0.001 NG/μL)
 ES (8290B): 2 NG (200 μL; 0.01 NG/μL)
 CS (8290B): 0.8 NG (20 μL; 0.04 NG/μL)
 JS (8290B): 2 NG (200 μL; 0.01 NG/μL)

SOPS

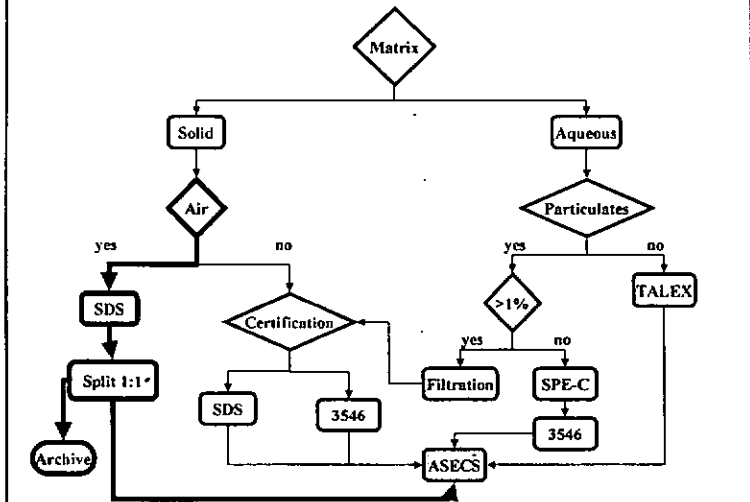
EXTRACTION: AP-CM-5
 FRACTIONATION: AP-SP-CU
 ANALYSIS: AP-SP-A
 CONCENTRATION: AP-SP-N
 FORTIFICATION: AP-SP-F
 DATA VALIDATION: AP-SP-R

QC PROFILE

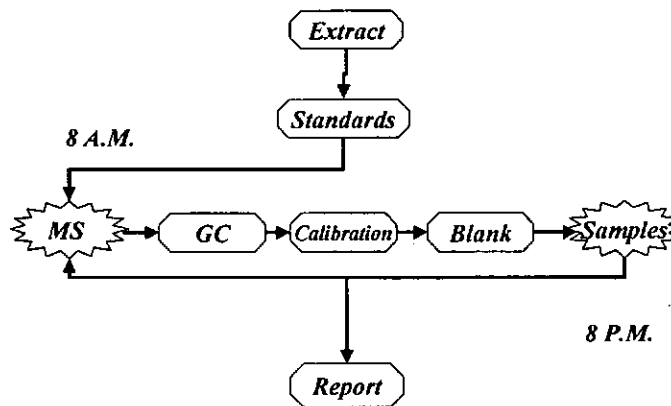
LMB: ALWAYS REQUIRED
 OPR: 1613 ONLY; NO BCS₃
 BATCH CS₃: 8290B ONLY

2,3,7,8-TCDD	YES	NO
2,3,7,8-TCDF	YES	NO
PCDD/Fs	YES	NO

SAMPLE EXTRACTION



SAMPLE ANALYSIS



SPECIAL REQUIREMENTS

SUPPLIES IDS

SAND	_____
TOLUENE	0858164
ACID SILICA	06092009
BASE SILICA	06092009
SILICA	05112009
FLORISIL	06042009
HEXANE	CY971
CH ₂ CL ₂	CY889
TETRADECANE	10292008
HYDROMATRIX	01022009
H ₂ SO ₄	_____
K SILICATE	_____

Project: P1376

Extraction Batch: 6875

Extraction Group: 1613SOL

SDS Number	AP Sample ID	Client Sample ID	Weight g	Observations	6/9/09 ES 200ul	6/9/09 Ax A B 200ul 20ul	SDS (Tol)	AS/CS 200ul 200ul	ASECS (Td) 20ul	Additional Cleanup	JS 200ul
19	0_6875_MB001	Batched w/ P1377	10.20	Hydromatrix 06022009	OK	- -	OK	HR HR	Em Em 1	-	HR
20	0_6875_OPR001		10.11	Hydromatrix 06022009	OK	OK OK	OK	HR HR	Em Em 2	-	HR
22	P1376_6875_001	BW-01-SS-090602	22.80	Dark grey mud	OK	6-9-09 - -	OK	HR HR	Em Em 3	-	HR
23	P1376_6875_002	BW-03-SS-090602	24.41	see 001	OK	- -	OK	HR HR	Em Em 4	-	HR
24	P1376_6875_003	BW-07-SS-090602	16.33	wet black gritty mud	OK	- -	OK	HR HR	Em Em 5	-	HR
25	P1376_6875_004	BW-09-SS-090602	19.69	black mud	OK	- -	OK	HR HR	Em Em 6	-	HR
26	P1376_6875_005	BW-11-SS-090602	23.60	see 004	OK	- -	OK	HR HR	Em Em 7	-	HR
27	P1376_6875_006	BW-53-SS-090602	21.32	see 004	OK	- -	OK	HR HR	Em Em 8	-	HR

Handwritten notes above table: *6/9/09*, *6/9/09*, *6/9/09*, *6-9-09*, *6-9-09*, *6-10-09*, *6-11-09*, *6-11-09*, *JM 6/11/09*

*① see to 6/23/09

AS-A
07012007B-A
1pg/ml
3/12/10
SIL 9-14-1
200ul @ 0.004ug/ml

AS 07012007F
10 pg/ml
EXP 6/30/09
SIL B-9-2
200ul @ 0.01 ug/ml

ES ID: 07012007B-A ES (conc.): 10pg/ml ES (exp.): 6/30/09 Vial #: SIL 9-14-1 ES: 20ul @ 0.1ng/ml	AS ID: 07012007B-A AS (conc.): 10pg/ml AS (exp.): 6/30/09 Vial #: SIL 9-14-1 AS: 20ul @ 0.01ng/ml	CS ID: 07012007B-05 CS (conc.): 4pg/ml CS (exp.): 03-31-10 Vial #: SIL 9-14-1 CS: 200ul @ 0.004ug/ml	JS ID: 07012007F JS (conc.): 10pg/ml JS (exp.): 3/13/10 Vial #: SIL 9-8-4 JS: 10ul @ 0.2ng/ml	Cycle Time: 6-9-09 Start: 3:30 Stop: 10:10	Check Out: Chemist: OK 6/19/09 Check-In: Chemist: OK 6/19/09
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ANALYTICAL PERSPECTIVES

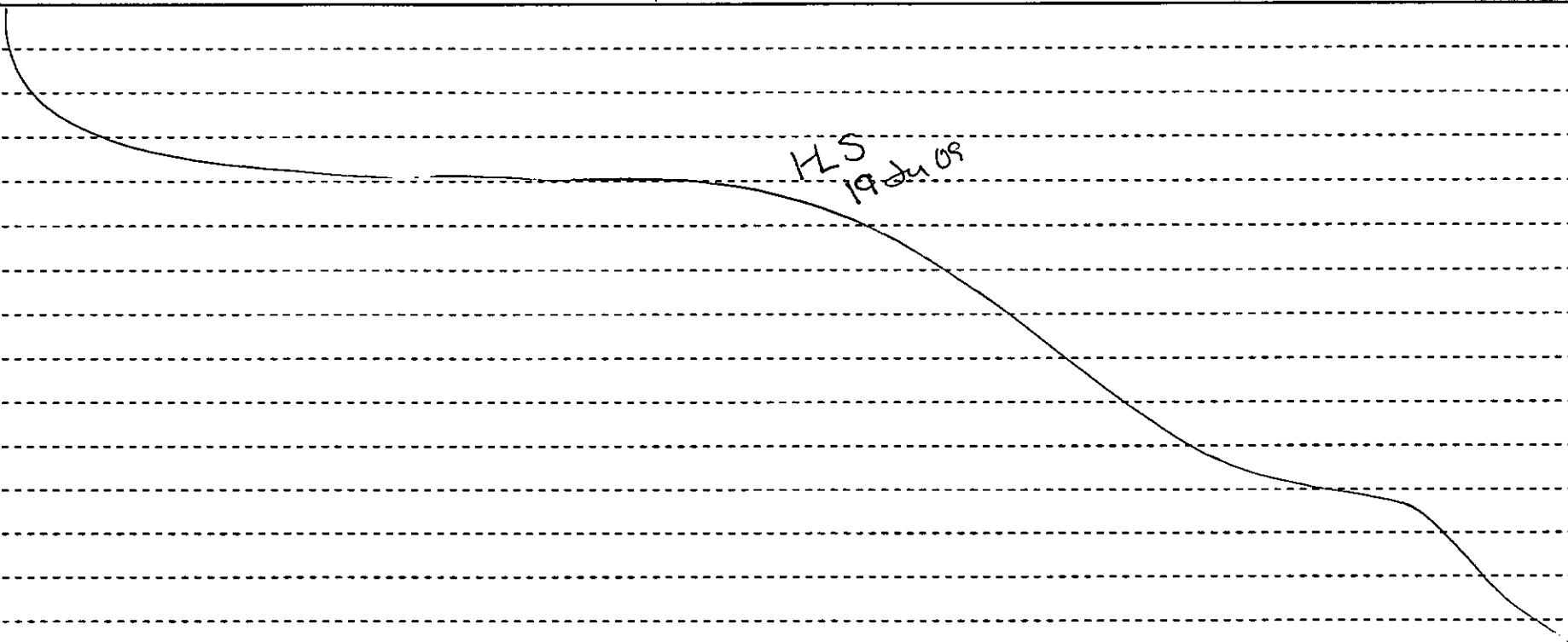
SAMPLE PATH

AP PROJECT No.: P1376

SPIKE PROFILE PCDD/F

Analyte	Spiked Compounds	Spiked Amount	Spiked Volume	Spiking Solution Conc.	Split Factor Factor	Final Volume	Final Solvent
PCDD/F <i>ee to 6/23/09</i>	ES	2 ng	200 μ L	0.01 ng/ μ L	1	20 μ L	Td
	CS / AS	0.8 / 2 ng	200 μ L	0.004 ng/ μ L			
	JS	2 ng	200 μ L	0.01 ng/ μ L			
	Ax OPR <i>A+B</i>	0.2 ng	200 μ L	0.001 ng/ μ L	1	20 μ L	Td

COMMUNICATIONS





SAMPLE PATH

AP PROJECT No.: P1376
PROTOCOL: 8290 / 1613 SOLID

SPECIAL INSTRUCTIONS

SPECIAL REQUIREMENTS:

1. ANCHOR EDDs
2. WHO-TEFs & ITEFs
3. DELANEY PETERSON IS THE PROJECT MANAGER
 - EMAIL REPORT TO DELANEY PETERSON
 - CC EMAIL TO JOY DUNAY & SCOTT MILLER
 - SCOTT MILLER EMAIL: smiller@slrcorp.com
4. SEND HARDCOPY TO JOY DUNAY
4. CT-BOOKMARKED PDF BINDER & ONLINE REPORT
5. INVOICE TO SLR INTERNATIONAL CORP.: REFER TO PO

Rev. 08-JUNE-09 ct



ANALYTICAL PERSPECTIVES

SAMPLE PATH

AP PROJECT No.: P1376

COMMUNICATIONS

HLS
19 Jun 09

M8290/1613 PCDD/F SPIKE PROFILE

ANALYTE	CLEANUP STANDARDS AMOUNT SPIKED (NG)
³⁷ Cl ₄ -2,3,7,8-TCDD	0.8
¹³ C ₁₂ -1,2,3,4,7-PeCDD	2
¹³ C ₁₂ -1,2,3,4,6-PeCDF	2
¹³ C ₁₂ -1,2,3,4,6,9-HxCDF	2
¹³ C ₁₂ -1,2,3,4,6,8,9-HpCDF	2

COMPOUND	INJECTION STANDARDS AMOUNT SPIKED NG
¹³ C ₁₂ -1,2,3,4-TCDD	2
¹³ C ₁₂ -1,2,3,4-TCDF	2
¹³ C ₁₂ -1,2,3,4,6,7-HxCDD	1

COMPOUND	ALTERNATE STANDARD AMOUNT SPIKED NG
¹³ C ₁₂ -1,3,6,8-TCDD	2
¹³ C ₁₂ -1,3,6,8-TCDF	2

COMPOUND	EXTRACTION STANDARDS AMOUNT SPIKED NG
¹³ C ₁₂ -2,3,7,8-TCDD	2
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2
¹³ C ₁₂ -OCDD	4
¹³ C ₁₂ -2,3,7,8-TCDF	2
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2
¹³ C ₁₂ -OCDF	4

Final Benchsheet for Extraction Set 6875

PrepBatch: ~~2338076~~ *ee Ad 6/23/09*
Units: g
Extr Group: 1613SOL **Date Extr:** 6/9/2009
Chemist: Jeremy M. Kadylak **Date Final:** 6/12/2009

AP Sample ID	Boat Wt.	Wet Wt. (total)	Dry Wt. (Total)	% Solids	Sample Wt.	Final Wt.
0 6875 MB001					10.20 —	0.00 —
0 6875 OPR001					10.11 ✓	0.00 —
P1376 6875 002	0.99 —	6.01 —	3.10 —	42.03 —	24.41 —	10.26 —
P1376 6875 003	0.98 —	6.08 —	4.23 ✓	63.73 ✓	16.33 ✓	10.41 —
P1376 6875 004	0.99 —	10.44 —	5.96 —	52.59 —	19.69 —	10.36 —
P1376 6875 005	1.00 —	7.51 —	3.78 —	42.70 —	23.60 —	10.08 ✓
P1376 6875 006	0.99 —	7.42 —	3.96 —	46.19 —	22.32 —	10.31 —
P1376 6875 001	1.01 —	6.99 ✓	3.64 ✓	43.98 —	22.80 —	10.03 ✓

NOTES:



Sample Inventory Report - Extended

Project Name: 080207-02 —

Project No.: P1376 —

<u>AP</u> <u>Sample ID</u>	<u>Client</u> <u>Sample ID</u>	<u>Client Sample</u> <u>Description</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>
P1376 001	BW-01-SS-090602 —	Sediment —	2-Jun-09 —	4-Jun-09 —
P1376 002	BW-03-SS-090602 —	Sediment —	2-Jun-09 —	4-Jun-09 —
P1376 003	BW-07-SS-090602 —	Sediment —	2-Jun-09 —	4-Jun-09 —
P1376 004	BW-09-SS-090602 —	Sediment —	2-Jun-09 —	4-Jun-09 —
P1376 005	BW-11-SS-090602 —	Sediment —	2-Jun-09 —	4-Jun-09 —
P1376 006	BW-53-SS-090602 —	Sediment —	2-Jun-09 —	4-Jun-09 —

OK
AO as per CT
6/8/09

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Date: 6/2/09

Project Name: Bay Wood Products

Project Number: 080207-02

Project Manager: James Keithly

Phone Number: 206.903.3340

Shipment Method: Fedex



P13710 1/1

Line	Field Sample ID	Collection Date/Time	Lab ID	Matrix	No. of Containers	1613B Dioxin/Furans	Comments
1	BW-01-SS-09060	6/2/09 1245		SE	1	X	
2	BW-03-SS-09060	1145		SE	1	X	
3	BW-07-SS-09060	1450		SE	1	X	
4	BW-09-SS-09060	1510		SE	1	X	
5	BW-11-SS-09060	1315		SE	1	X	
6	BW- 03 -SS-09060	↓ 1145		SE	1	X	
7				SE			
8				SE			
9				SE			
10				SE			
11				SE			
12				SE			
13				SE			
14				SE			
15				SE			

6/2/09 1145

*Level 4 data package

*See QAPP tables for analyte lists and QC requirements

Relinquished By: _____ Company: Anchor QEA, LLC

Signature/Printed Name _____ Date/Time _____

Received By: N. musselwhite Company: Analytical Perspectives

N. musselwhite Signature/Printed Name _____ Date/Time 04 June 09 10:10 AM

Relinquished By: _____ Company: _____

Signature/Printed Name _____ Date/Time _____

Received By: _____ Company: _____

Signature/Printed Name _____ Date/Time _____

P1376

Cindy Tondeur

From: Delaney Peterson [dpeterson@anchorqea.com]
Sent: Monday, June 08, 2009 1:31 PM
To: Cindy Tondeur
Cc: Todd Vilen; Kimberly Mace; smiller@slrcorp.com
Subject: RE: Sample Receipt Confirmation_P1376

Hi Cindy,
There was a mistake on the sample ids for these. Would you please add a 2 to the end of each id (eg. BW-01-SS-090602).
Sorry for the confusion.
Thanks,

Delaney Peterson
ANCHOR QEA, LLC
dpeterson@anchorqea.com
Please consider the environment before printing this email.

From: Cindy Tondeur [mailto:ct@ultratrace.com]
Sent: Monday, June 08, 2009 6:44 AM
To: Delaney Peterson
Cc: Joy Dunay; 'Todd Vilen'; 'Kimberly Mace'; smiller@slrcorp.com
Subject: Sample Receipt Confirmation_P1376

This documentation is for your records only, and will become part of our final report (if applicable).

Analytical Perspectives, LLC
Cindy Tondeur
2714 Exchange Drive
Wilmington, North Carolina, 28405
Ph: 910-794-1613 ext. 124
Fax: 910-794-3919
Email: ct@ultratrace.com

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6/8/2009

SAMPLE LOG-IN FORM

Client Project / Job ID:

080207-02

PO #:

Date Samples Arrived: 04 June 09 Initials: UM

Time / Date logged in: 10:10 AM 04 June 09 Refrigerator: F6 Initials: UM

Samples Arrived By: (circle one) FedEx UPS Airborne Express DHL Emery
Freezer Truck Company Courier Other _____

AP Project ID: P1376

CHAIN OF CUSTODY ANOMALY FORM

Shipping Preservation: (circle one) Ice Blue Ice / Dry Ice / None Temp °C 4° VAO

The following items were omitted from the COC

Shipping Documentation Present? (circle one) Shipping Label or Airbill

Project ID and/or PO#:

of boxes: 1 # of coolers: 1 Tracking #: 7976 4849 3983

Sampler:

Shipping Container(s) intact? yes If no, describe condition:

Relinquished By:

Container Custody Seals Present & Intact? yes If not intact, describe condition:

Date:

Sample Custody Seals Present & Intact? N/A If not intact, describe condition:

Time:

of Seals: 1 or Seal #: Ø

Sample ID:

Sample Container Intact? yes If no, indicate sample condition:

Sample Date:

Chain of Custody (COC) / Sample Documentation Present? yes Exceptions? N/A

Sample Description:

If not, complete COC Anomaly Form

Analysis Requested:

Shipping Container: (circle one) Client or AP Return Retain Dispose

Turn-Around Time:

Container and/or Bottles Requested? NO

Container Qty.:

Sample Control Log In/Out Completed? yes

Container Type:

Drinking Water Sample? NO If yes, Acceptable preservation? N/A

Other:

FILL BELOW IF APPLICABLE

COMMENTS

Have all the samples arrived? yes If no, complete the following.

Shipment #: _____ Date of Arrival: _____ Condition: _____ Temp °C _____

Delivered by: _____ Tracking #s _____

COC Present? _____ Acceptable? _____ If no, document on COC Anomaly Form additional shipment comments.

Container Intact? _____ Samples Intact? _____ If no, describe:

Do we expect another shipment? _____ If yes, start a new log-in sheet. 😊

Blank area for handwritten comments.

Analytical Perspectives - Injection Log

Analyst: MC
MS Method: DF_CL4-8

GC Column: db-5
GC Method: DB5MS_60M

Data file S#	Vial#	Lab ID	Sample ID (Chrom. Text)	Wt/Vol	ES	Check	Acq date	Acq time
090614P1	1	8 CS3	CS3 SIL7-25-4	1.0000	100		14-JUN-09	09:06:36
090614P1	2	47 OPR1_6875_DF	OPR1_6875_DF 0_6875_OPR001	1.0000	100		14-JUN-09	09:56:12
090614P1	3	15 SBS	SBS SOLVENT BLANK	10.200	100		14-JUN-09	10:45:45
090614P1	4	46 MB1_6875_DF_SDS	MB1_6875_DF_SDS 0_6875_MB001	10.000	2000	4116	14-JUN-09	11:35:23
090614P1	5	48 P1376_6875_001	P1376_6875_001 BW-01-SS-090602 10.0g	10.038	2000	4424	14-JUN-09	12:25:00
090614P1	6	49 P1376_6875_002	P1376_6875_002 BW-03-SS-090602 10.26g	10.260	2000	0519	14-JUN-09	13:14:38
090614P1	7	50 P1376_6875_003	P1376_6875_003 BW-07-SS-090602 10.41g	10.410	2000	0811	14-JUN-09	14:04:11
090614P1	8	51 P1376_6875_004	P1376_6875_004 BW-09-SS-090602 10.36g	10.360	2000	1092	14-JUN-09	14:53:42
090614P1	9	52 P1376_6875_005	P1376_6875_005 BW-11-SS-090602 10.1g	10.080	2000	4823	14-JUN-09	15:43:15
090614P1	10	53 P1376_6875_006	P1376_6875_006 BW-53-SS-090602 10.31g	10.310	2000	1661	14-JUN-09	16:32:48

VOP is 17 Jun 09

1613/8290 Sample Summary

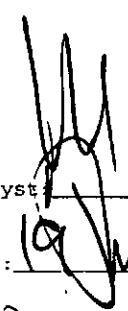
Analytical Perspectives

[Form: DF]

Client ID: 0_6875_MB001 Filename: 090614P1 S: 4 Vial: 46 Acq: 14-JUN-09 11:35:23
 Lab ID: MB1_6875_DF_SDS GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08Wt/Vol: 10.00
 Sample text: MB1_6875_DF_SDS 0_6875_MB001 Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	*	* n	NotF»	1.08	*	573	2.5	0.0537	-
Ax	1,2,3,7,8-PeCDD	*	* n	NotF»	1.00	*	726	2.5	0.103	-
Ax	1,2,3,4,7,8-HxCDD	*	* n	NotF»	1.08	*	798	2.5	0.102	-
Ax	1,2,3,6,7,8-HxCDD	*	* n	NotF»	0.94	*	798	2.5	0.110	-
Ax	1,2,3,7,8,9-HxCDD	*	* n	NotF»	0.99	*	798	2.5	0.118	-
Ax	1,2,3,4,6,7,8-HpCDD	*	* n	NotF»	0.97	*	984	2.5	0.154	-
Ax	OCDD	*	* n	NotF»	1.06	*	1710	2.5	0.452	-
Ax2	OCDD-a	*	* n	NotF»	0.06	*	742	2.5	3.29	-
Ax	2,3,7,8-TCDF	*	* n	NotF»	1.05	*	1232	2.5	0.0877	-
Ax	1,2,3,7,8-PeCDF	*	* n	NotF»	0.98	*	1108	2.5	0.0971	-
Ax	2,3,4,7,8-PeCDF	*	* n	NotF»	1.01	*	1108	2.5	0.0908	-
Ax	1,2,3,4,7,8-HxCDF	*	* n	NotF»	1.22	*	1151	2.5	0.0663	-
Ax	1,2,3,6,7,8-HxCDF	*	* n	NotF»	1.15	*	1151	2.5	0.0618	-
Ax	2,3,4,6,7,8-HxCDF	*	* n	NotF»	1.13	*	1151	2.5	0.0702	-
Ax	1,2,3,7,8,9-HxCDF	*	* n	NotF»	1.12	*	1151	2.5	0.0954	-
Ax	1,2,3,4,6,7,8-HpCDF	*	* n	NotF»	1.37	*	1630	2.5	0.103	-
Ax	1,2,3,4,7,8,9-HpCDF	*	* n	NotF»	1.32	*	1630	2.5	0.165	-
Ax	OCDF	*	* n	NotF»	0.94	*	1554	2.5	0.310	-
Ax2	OCDF-a	*	* n	NotF»	0.05	*	1516	2.5	5.38	-
ES	13C-2,3,7,8-TCDD	3.74e+07	0.82 y	27:18	0.99	168	4576	2.5	0.404	83.8
ES	13C-1,2,3,7,8-PeCDD	3.25e+07	1.59 y	32:49	0.83	173	7070	2.5	0.742	86.6
ES	13C-1,2,3,4,7,8-HxCDD	2.67e+07	1.30 y	36:45	1.08	177	7997	2.5	1.05	88.3
ES	13C-1,2,3,6,7,8-HxCDD	2.94e+07	1.29 y	36:52	1.23	172	7997	2.5	0.929	86.0
ES	13C-1,2,3,7,8,9-HxCDD	2.90e+07	1.25 y	37:10	1.21	171	7997	2.5	0.941	85.7
ES	13C-1,2,3,4,6,7,8-HpCDD	2.33e+07	1.07 y	40:21	0.98	170	9572	2.5	1.39	84.8
ES	13C-OCDD	2.81e+07	0.84 y	43:56	0.66	305	11915	2.5	2.57	76.2
ES	13C-2,3,7,8-TCDF	5.39e+07	0.82 y	26:23	0.96	166	1507	2.5	0.101	83.0
ES	13C-1,2,3,7,8-PeCDF	5.59e+07	1.51 y	31:20	0.85	193	14976	2.5	1.12	96.6
ES	13C-2,3,4,7,8-PeCDF	5.59e+07	1.52 y	32:28	0.88	186	14976	2.5	1.08	93.2
ES	13C-1,2,3,4,7,8-HxCDF	3.54e+07	0.53 y	35:46	1.47	172	23780	2.5	2.30	85.9
ES	13C-1,2,3,6,7,8-HxCDF	4.34e+07	0.53 y	35:55	1.78	175	23780	2.5	1.91	87.4
ES	13C-2,3,4,6,7,8-HxCDF	3.79e+07	0.54 y	36:34	1.61	169	23780	2.5	2.10	84.3
ES	13C-1,2,3,7,8,9-HxCDF	3.22e+07	0.54 y	37:33	1.40	165	23780	2.5	2.42	82.3
ES	13C-1,2,3,4,6,7,8-HpCDF	2.53e+07	0.44 y	39:10	1.16	156	14299	2.5	1.75	78.1
ES	13C-1,2,3,4,7,8,9-HpCDF	2.02e+07	0.45 y	40:56	0.92	157	14299	2.5	2.21	78.5
ES	13C-OCDF	4.22e+07	0.89 y	44:11	1.04	291	12068	2.5	1.66	72.7
CS	37Cl-2,3,7,8-TCDD	1.51e+07		27:19	0.99	67.8			0.227	84.7
CS	13C-1,2,3,4,7-PeCDD	3.27e+07	1.63 y	32:19	0.77	189	7070	2.5	0.805	94.6
CS	13C-1,2,3,4,6-PeCDF	5.32e+07	1.54 y	30:47	0.79	197	14976	2.5	1.21	98.7
CS	13C-1,2,3,4,6,9-HxCDF	3.51e+07	0.54 y	36:13	1.41	178	23780	2.5	2.40	88.9
CS	13C-1,2,3,4,6,8,9-HpCDF	2.14e+07	0.45 y	39:40	0.91	168	14299	2.5	2.24	84.1
NA	n/a	*	* n	NotF»	Div0	*	880	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	4.50e+07	0.84 y	26:37	-	12.8	4576	2.5	-	-
JS	13C-1,2,3,4-TCDF	6.79e+07	0.83 y	24:58	-	12.2	1507	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.40e+07	1.42 y	37:03	-	6.42	556	2.5	-	-

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Analyst: 
 Date: 19 Jun 09
 19 Jun 09

SS	37Cl-2,3,7,8-TCDD	1.51e+07		27:19	1.00	80.4			0.261	101
SS	13C-1,2,3,4,7-PeCDD	3.27e+07	1.63 y	32:19	0.93	217	7070	2.5	1.08	108
SS	13C-1,2,3,4,6-PeCDF	5.32e+07	1.54 y	30:47	0.94	203	14976	2.5	1.38	102
SS	13C-1,2,3,4,6,9-HxCDF	3.51e+07	0.54 y	36:13	0.80	202	23780	2.5	1.83	101
SS	13C-1,2,3,4,6,8,9-HpCDF	2.14e+07	0.45 y	39:40	0.79	213	14299	2.5	1.56	107
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	1232	2.5	0.0877	-
Ay	1,3,6,8-TCDD	*	* n	NotF»	1.08	*	573	2.5	0.0537	-
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	573	2.5	0.0537	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	573	2.5	0.0537	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	726	2.5	0.103	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF»	1.00	*	726	2.5	0.103	-
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF»	1.00	*	798	2.5	0.110	-
Ay	1,2,3,4,6,7,9-HpCDD	*	* n	NotF»	0.97	*	984	2.5	0.154	-
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	1232	2.5	0.0877	-
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	1232	2.5	0.0877	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	1232	2.5	0.0877	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF»	1.05	*	619	2.5	0.0441	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	1108	2.5	0.0939	-
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF»	1.15	*	1151	2.5	0.0721	-
Tot	Total Tetra-Dioxins	*	* n	NotF»	1.08	*	573	2.5	0.0537	-
Tot	Total Penta-Dioxins	*	* n	NotF»	1.00	*	726	2.5	0.103	-
Tot	Total Hexa-Dioxins	*	* n	NotF»	1.00	*	798	2.5	0.110	-
Tot	Total Hepta-Dioxins	*	* n	NotF»	0.97	*	984	2.5	0.154	-
Tot	Total Tetra-Furans	*	* n	NotF»	1.05	*	1232	2.5	0.0877	-
Tot	Total Penta-Furans	*	* n	NotF»	1.00	*	1108	2.5	0.0939	-
Tot	Total Hexa-Furans	*	* n	NotF»	1.15	*	1151	2.5	0.0721	-
Tot	Total Hepta-Furans	*	* n	NotF»	1.35	*	1630	2.5	0.130	-
Tot	TCDD EMPC	*	* n	NotF»	1.08	*	573	2.5	0.0537	-
Tot	PeCDD EMPC	*	* n	NotF»	1.00	*	726	2.5	0.103	-
Tot	HxCDD EMPC	*	* n	NotF»	1.00	*	798	2.5	0.110	-
Tot	HpCDD EMPC	*	* n	NotF»	0.97	*	984	2.5	0.154	-
Tot	TCDF EMPC	*	* n	NotF»	1.05	*	1232	2.5	0.0877	-
Tot	PeCDF EMPC	*	* n	NotF»	1.00	*	1108	2.5	0.0939	-
Tot	HxCDF EMPC	*	* n	NotF»	1.15	*	1151	2.5	0.0721	-
Tot	HpCDF EMPC	*	* n	NotF»	1.35	*	794	2.5	0.0633	-
AS	13C-1,3,6,8-TCDD	3.55e+07	0.84 y	23:27	1.09	145	4576	2.5	0.369	72.6
AS	13C-1,3,6,8-TCDF	7.38e+07	0.83 y	21:16	1.09	200	1507	2.5	0.0885	99.9
DPE	HxCDFE	*		NotF»	-	*			-	-
DPE	HpCDFE	*		NotF»	-	*			-	-
DPE	OCDFE	*		NotF»	-	*			-	-
DPE	NCDPE	*		NotF»	-	*			-	-
DPE	DCDFE	*		NotF»	-	*			-	-
LMC	Fn1 check mass	*		NotF»	-	*			-	-
LMC	Fn2 check mass	*		NotF»	-	*			-	-
LMC	Fn3 check mass	*		NotF»	-	*			-	-
LMC	Fn4 check mass	*		NotF»	-	*			-	-
LMC	Fn5 check mass	*		NotF»	-	*			-	-

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT ml Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name

NotF» * n * n * n * * n *
Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT ml Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name

NotF» * n * n * n * * n *
Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT ml Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name

NotF» * n * n * n * * n *
Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT ml Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name

NotF» * n * n * n * * n *
Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * n *
Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDF EMPC Function: 2 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * n *
Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDF EMPC Function: 3 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * n *
Totals Results Analytical Perspectives [Form: TOT]

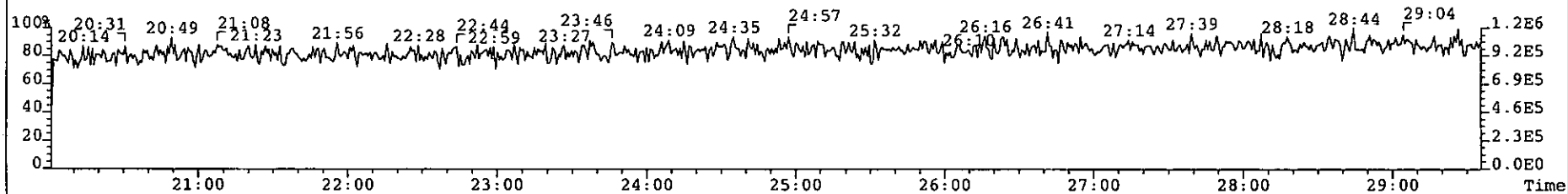
Totals class: HpCDF EMPC Function: 4 Run #: 11 Checkcode: 4116
File Name: 090614P1 Sample #: 4 Sample text: MB1_6875_DF_SDS 0_6875_MB001

Acquired: 14-JUN-09 11:35:23 Processed: 15-JUN-09 09:15:09

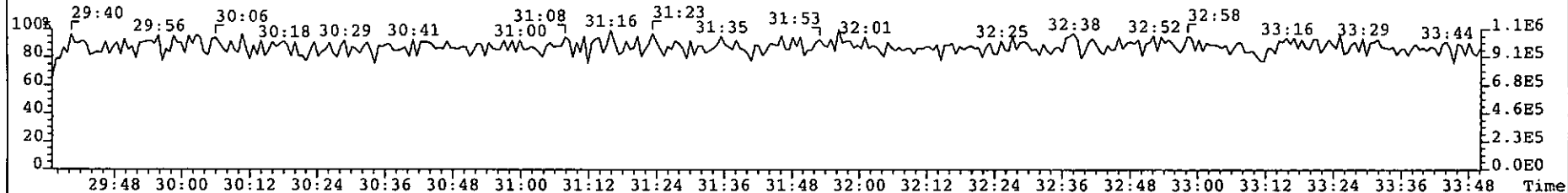
Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * n *

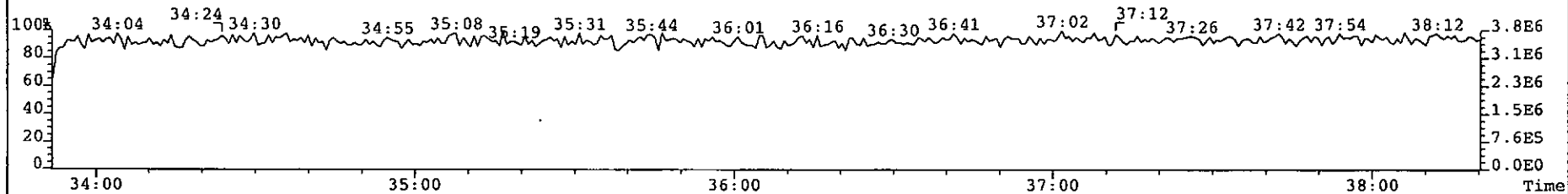
File: 090614P1 Acq: 14-JUN-2009 11:55:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



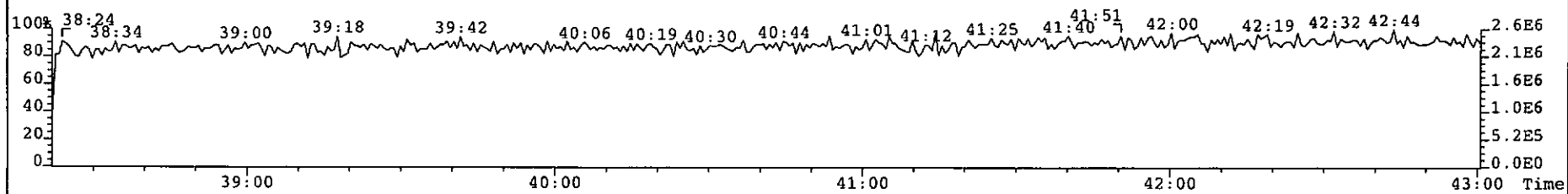
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



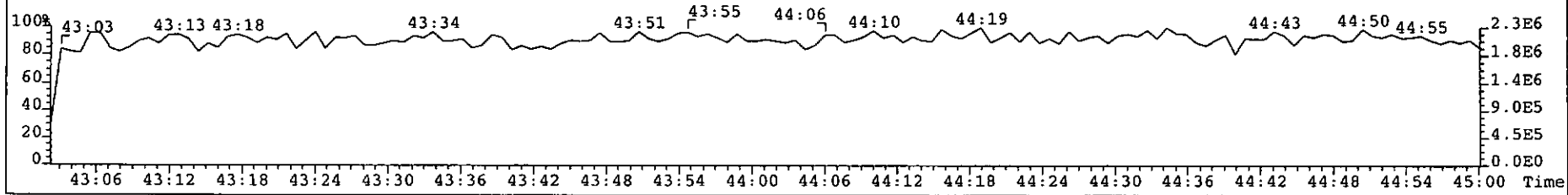
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



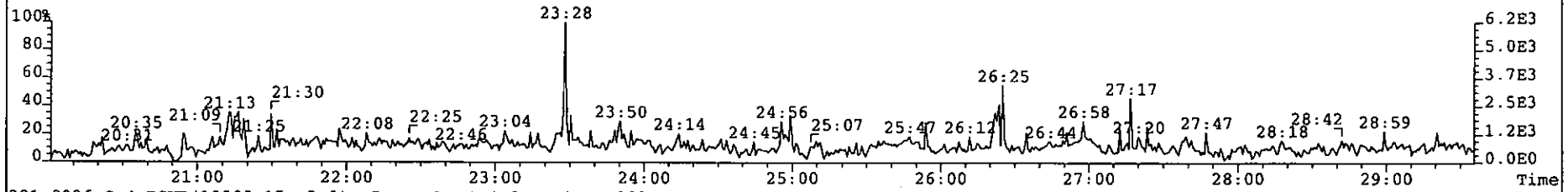
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



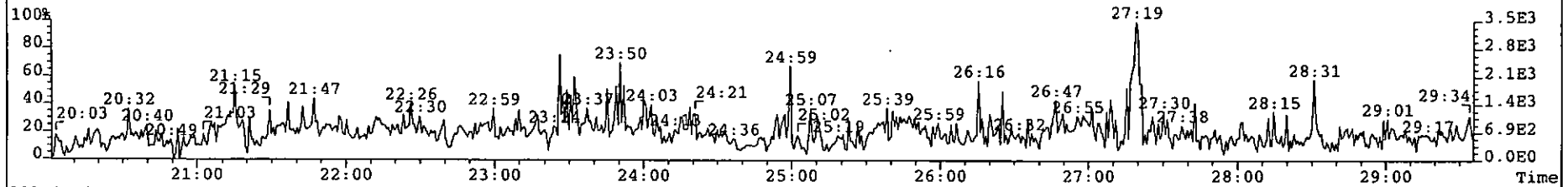
454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



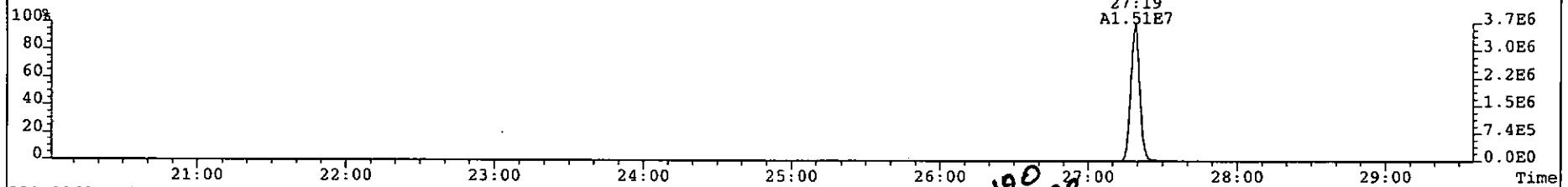
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 4 Text: MB1_6875_DF_SDS 0_6875_MB001 Vial# 46 File Text: AP DB5
 319.8965 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 222



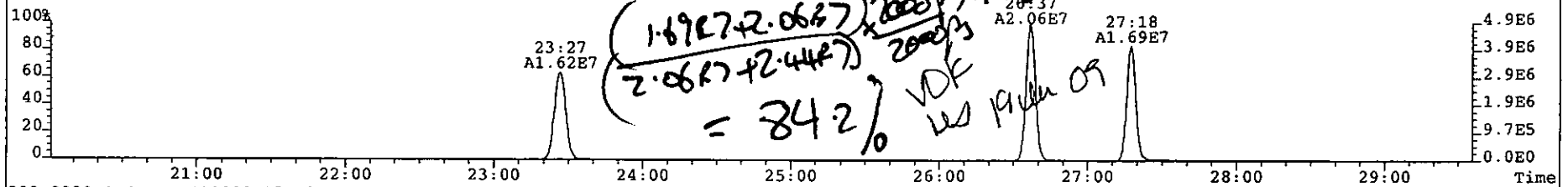
321.8936 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 202



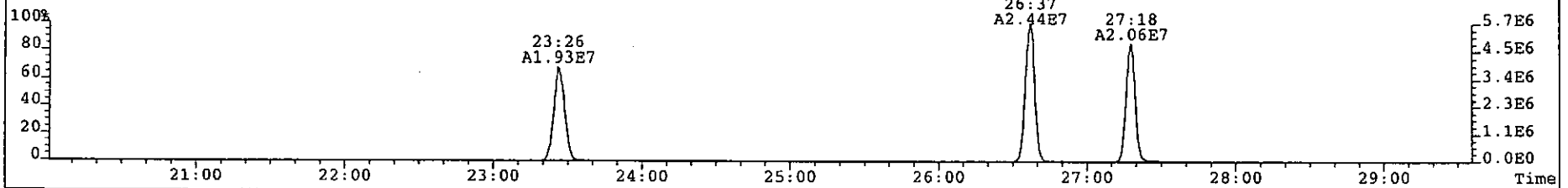
327.8850 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 246



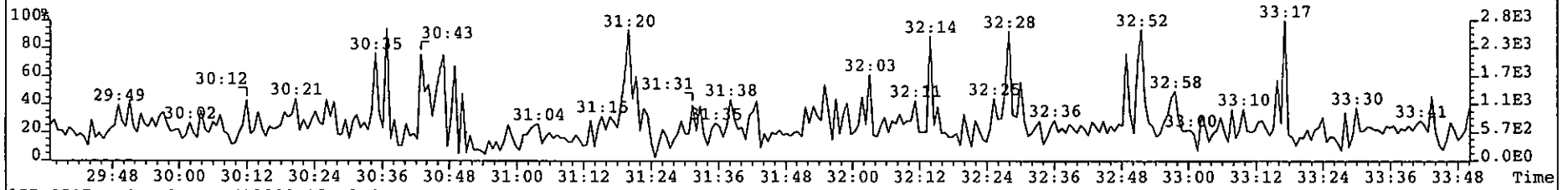
331.9368 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 257



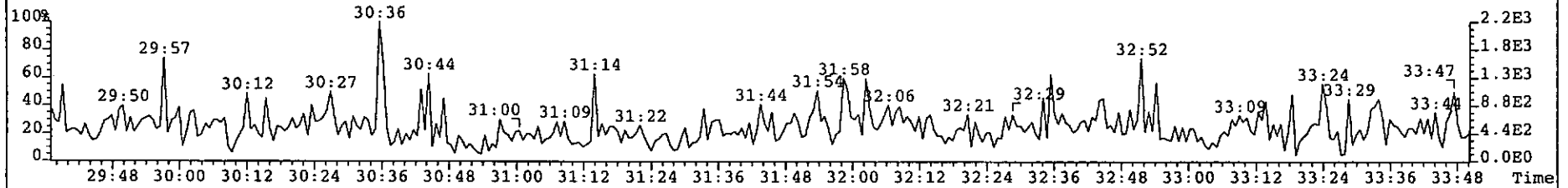
333.9339 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 240



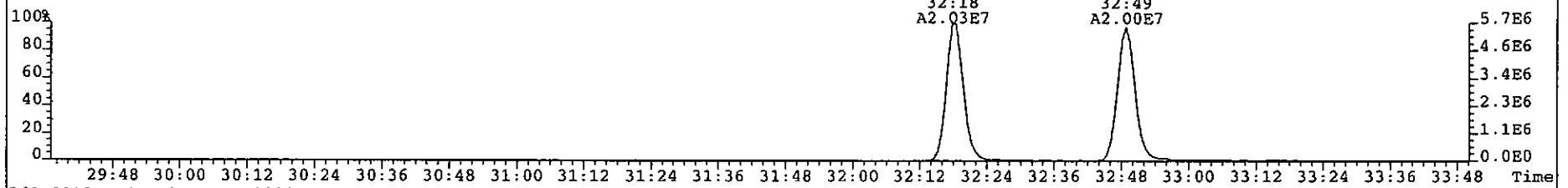
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
355.8546 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 208



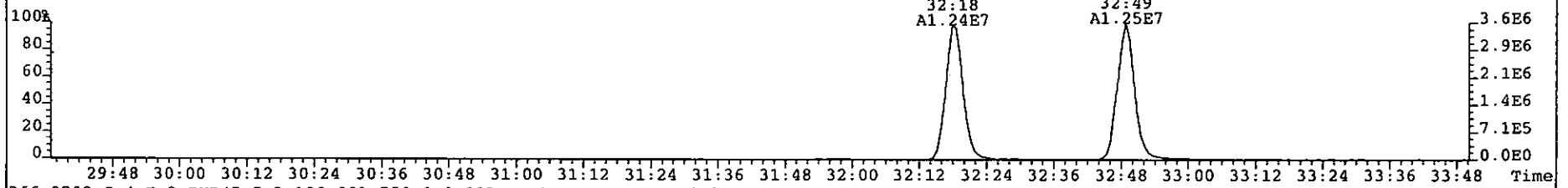
357.8517 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 160



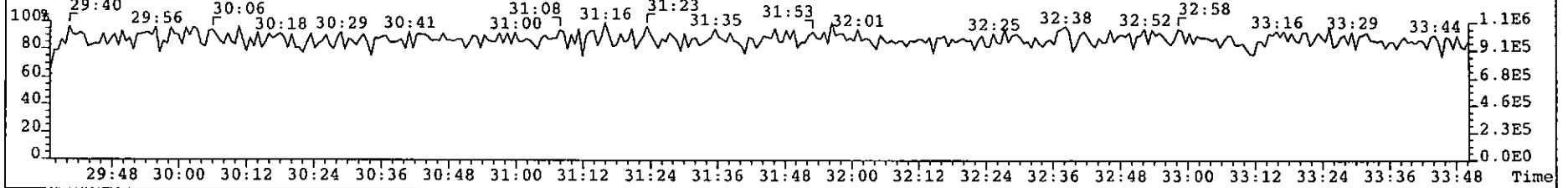
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 203



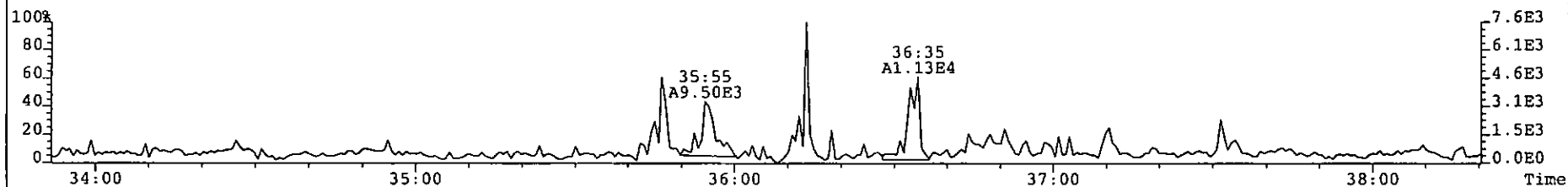
369.8919 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 222



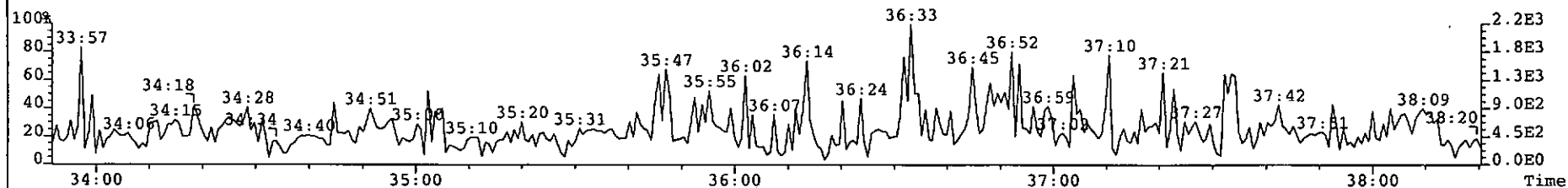
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



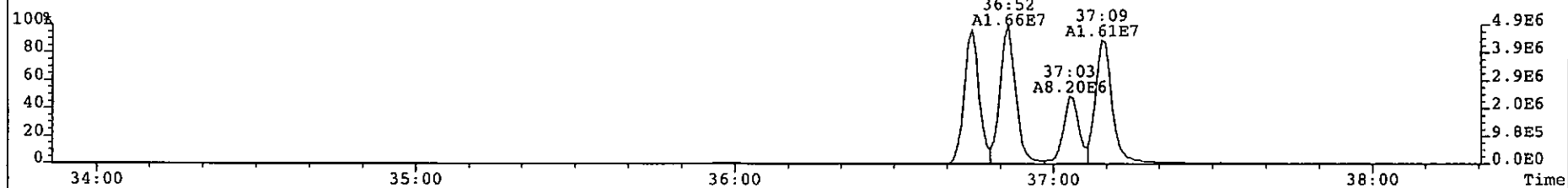
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 162



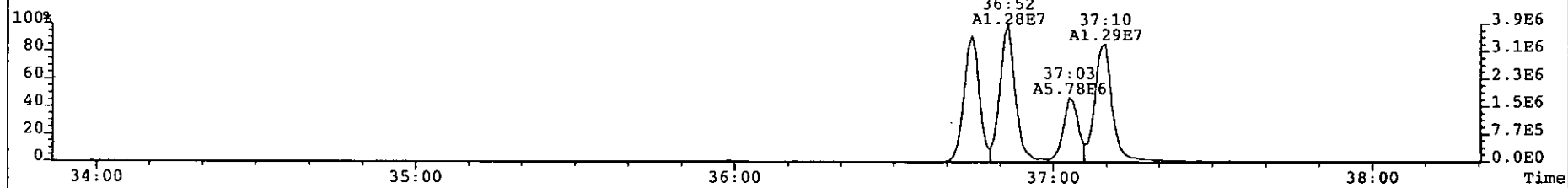
391.8127 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 151



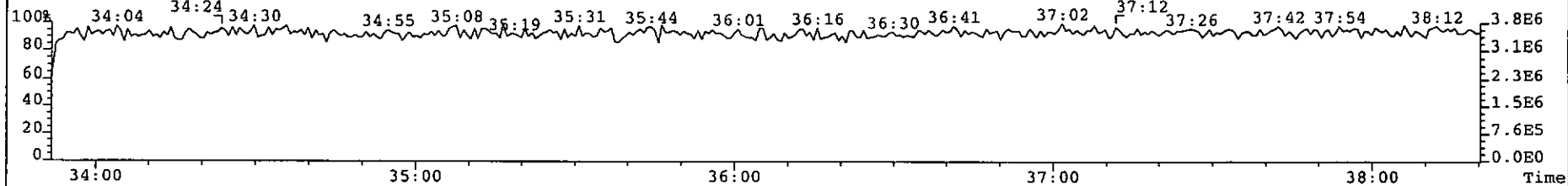
401.8559 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 183



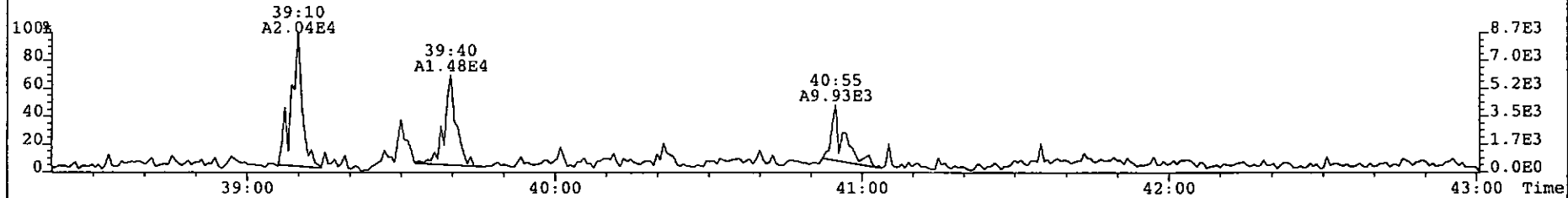
403.8530 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 177



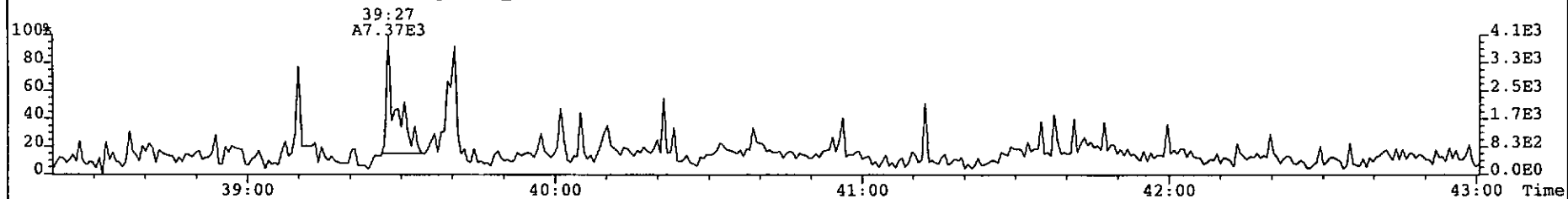
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



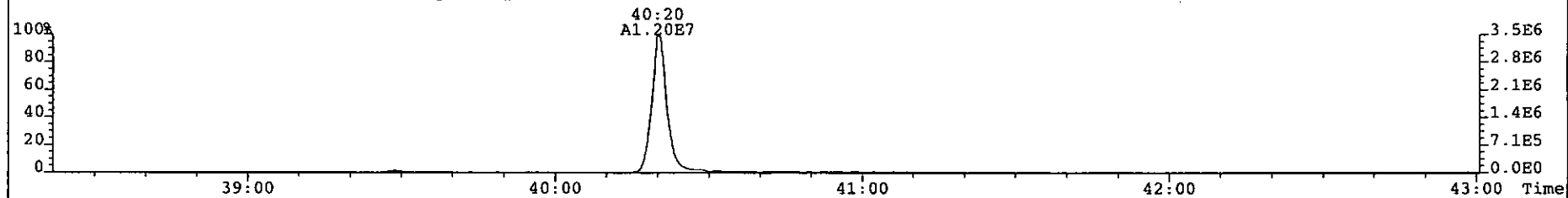
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 167



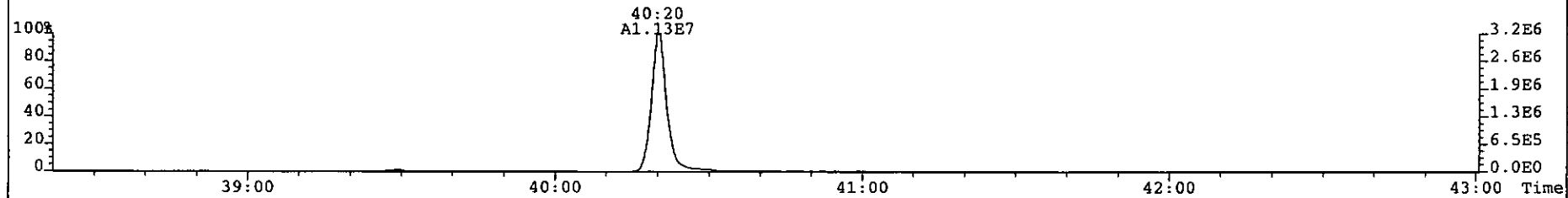
425.7737 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 177



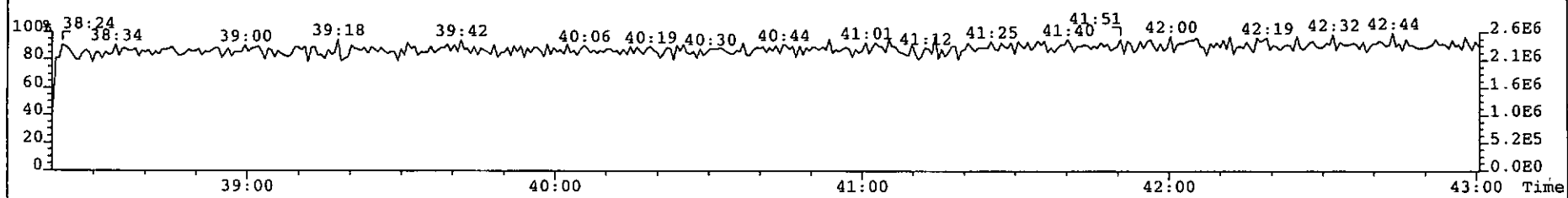
435.8169 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2111



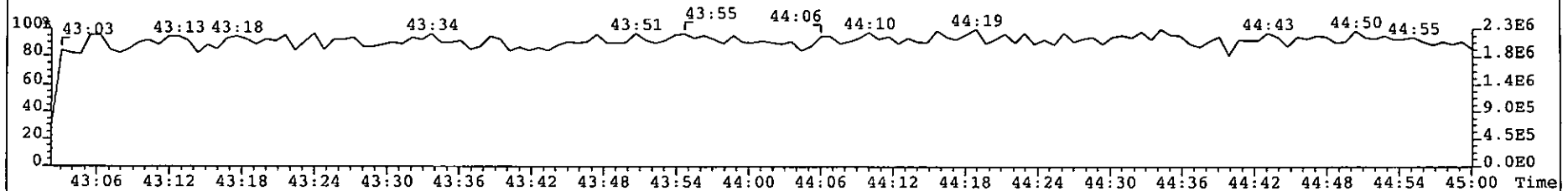
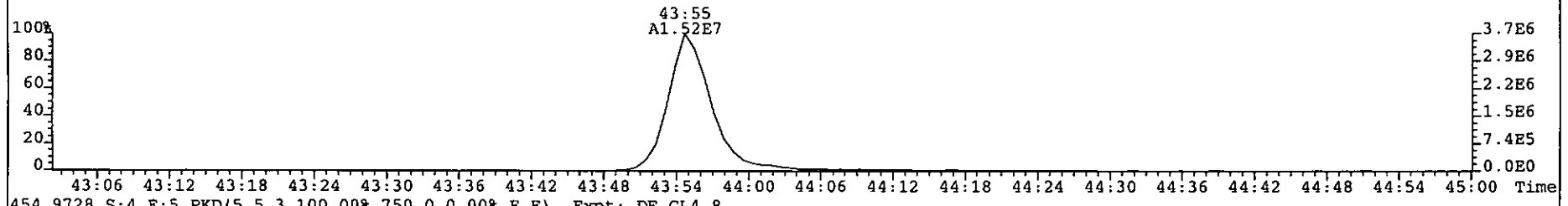
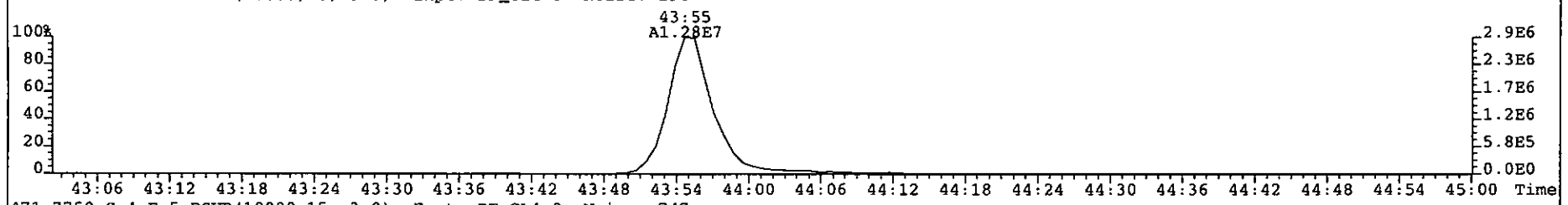
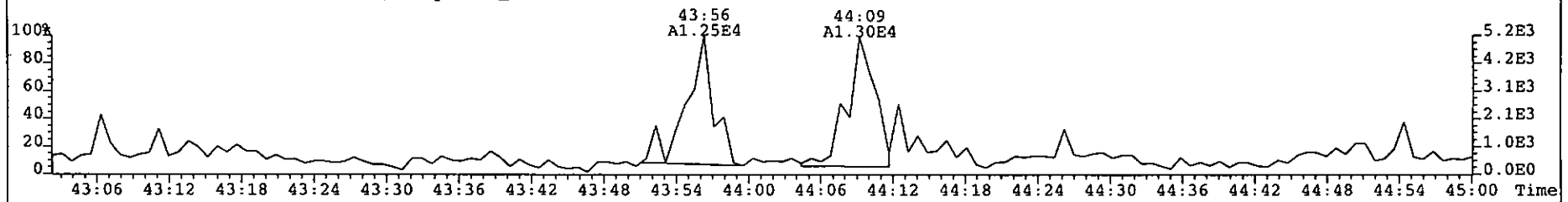
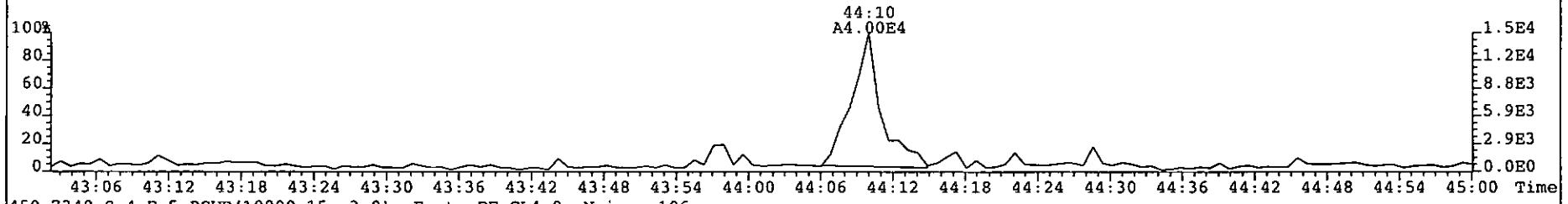
437.8140 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1187



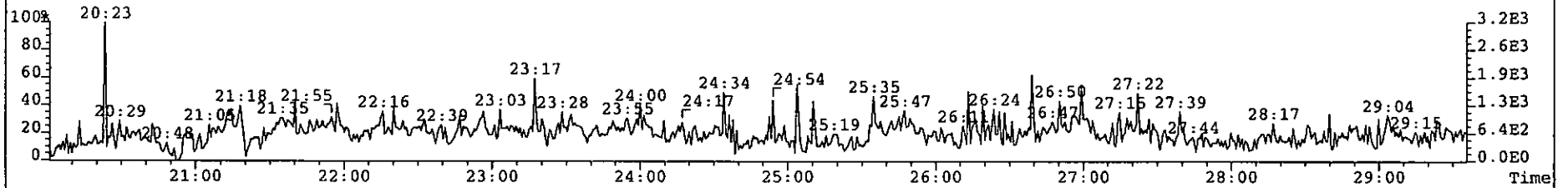
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



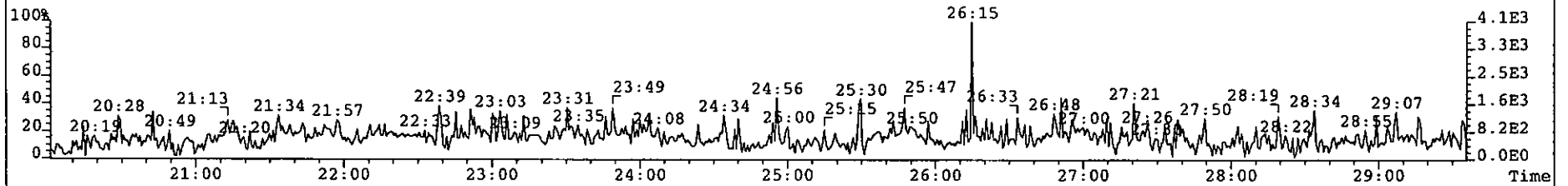
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 201



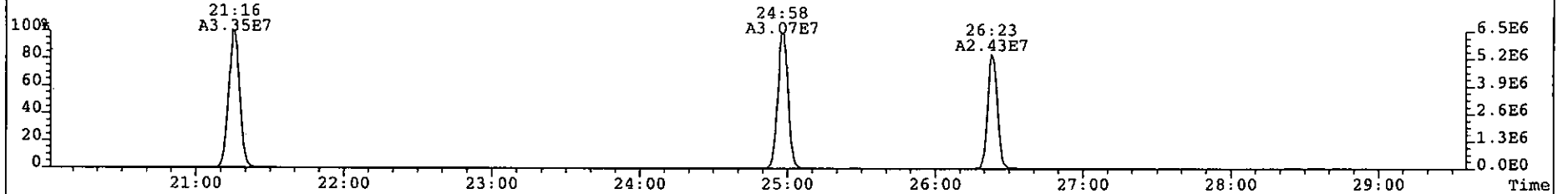
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage STR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS 0_6875_MB001 Vial# 46 File Text: AP DB5
303.9016 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 201



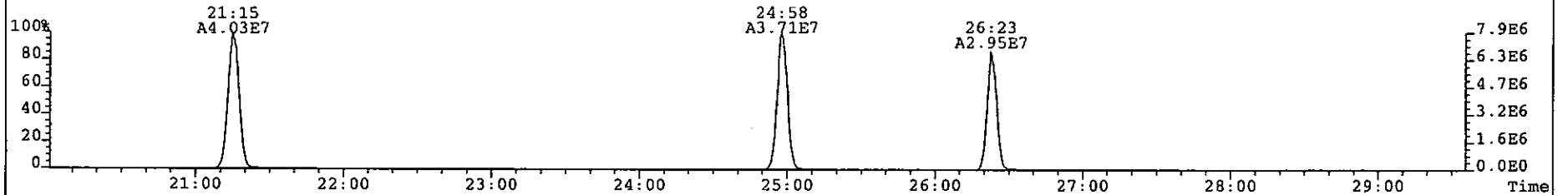
305.8987 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 192



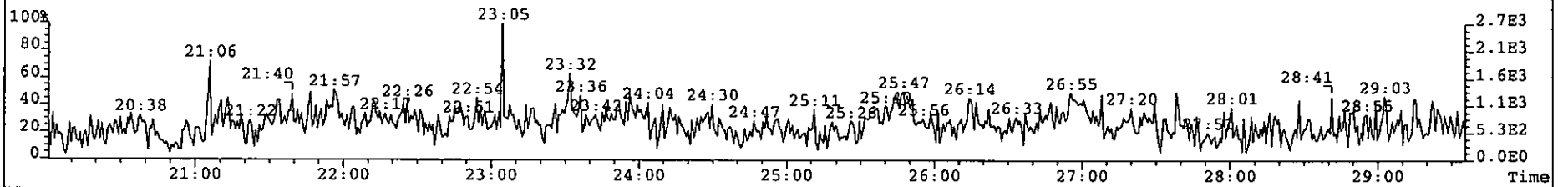
315.9419 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 254



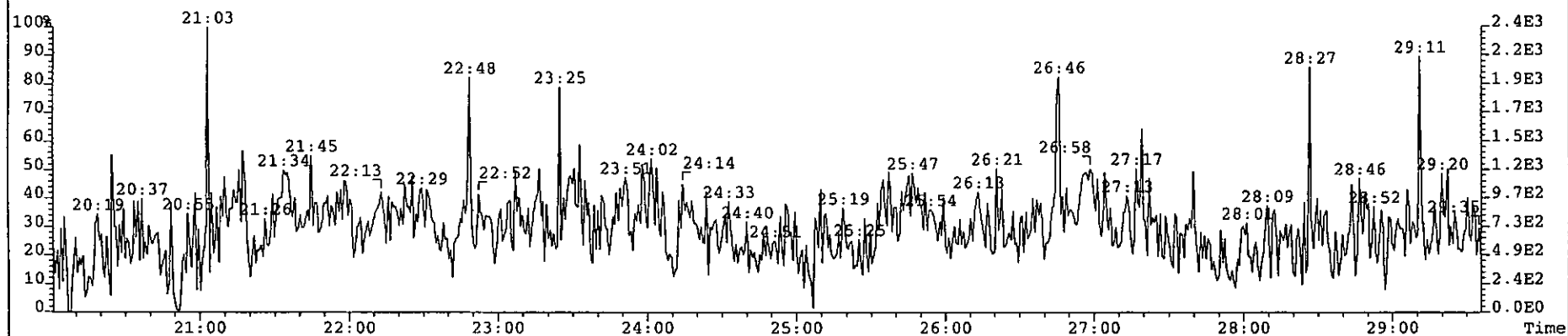
317.9389 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 261



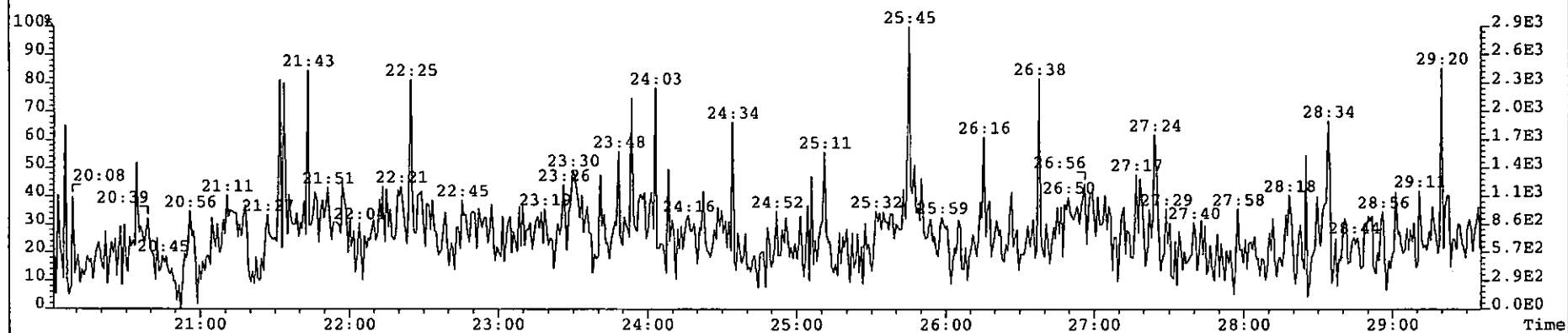
375.8364 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 223



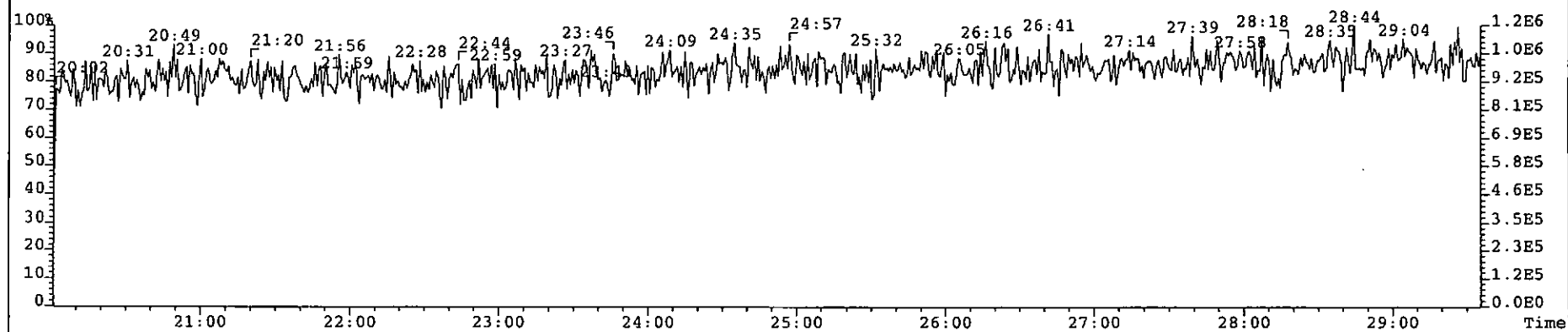
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS 0_6875_MB001 Vial# 46 File Text: AP DB5
339.8597 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 227



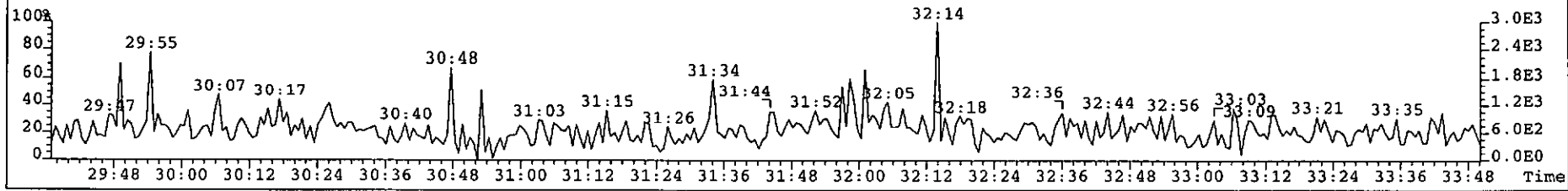
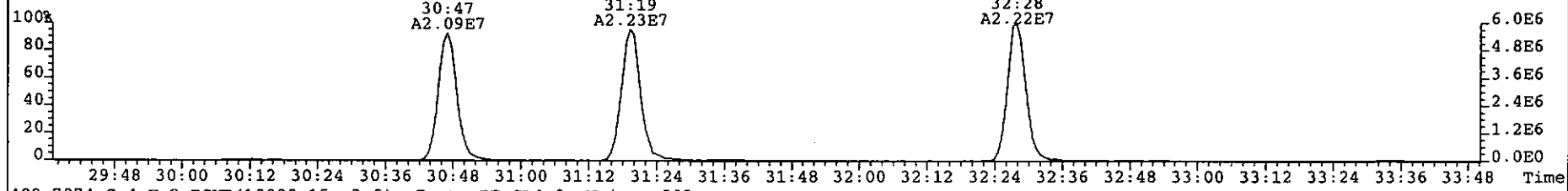
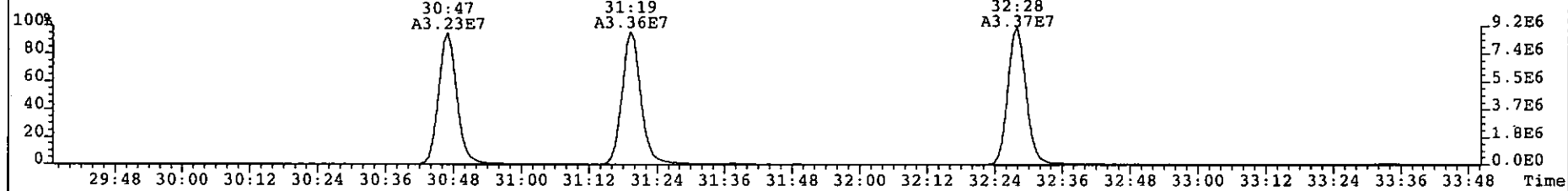
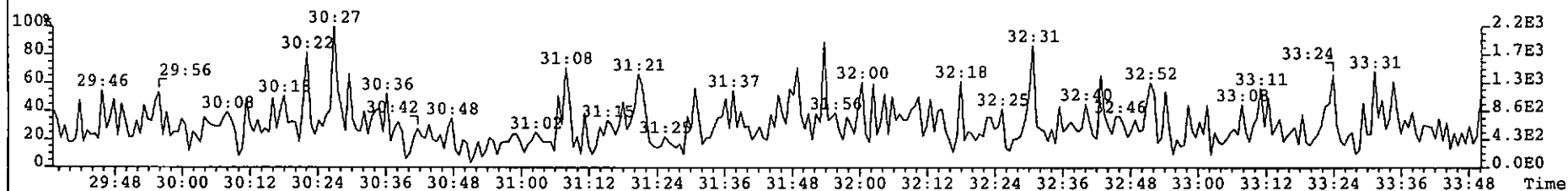
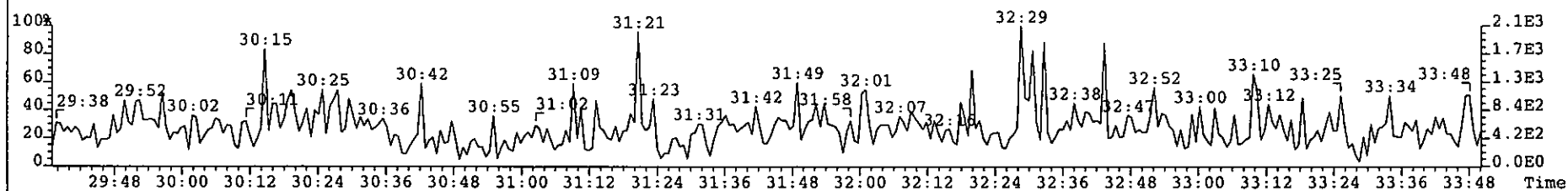
341.8568 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 232



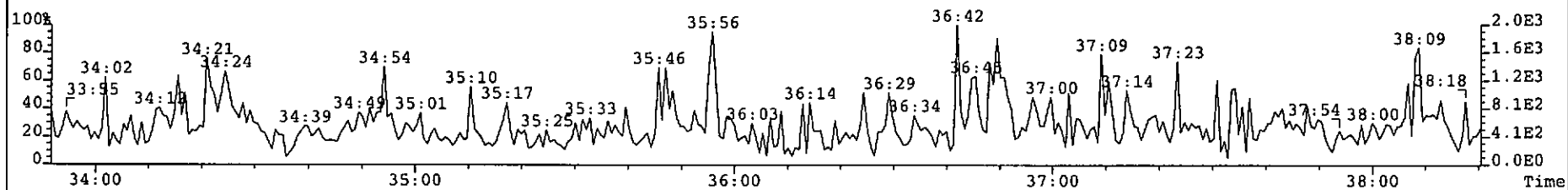
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



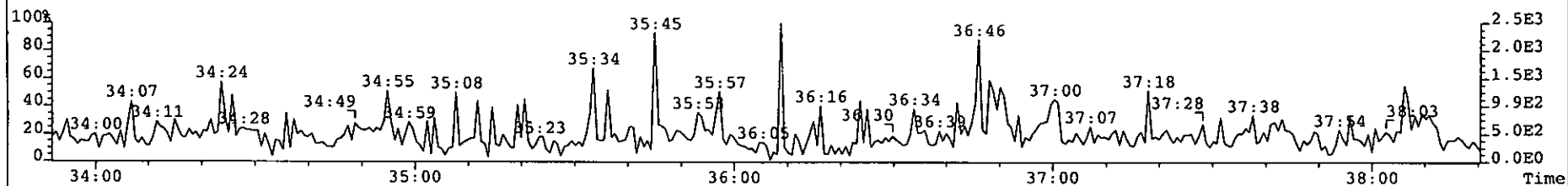
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 166



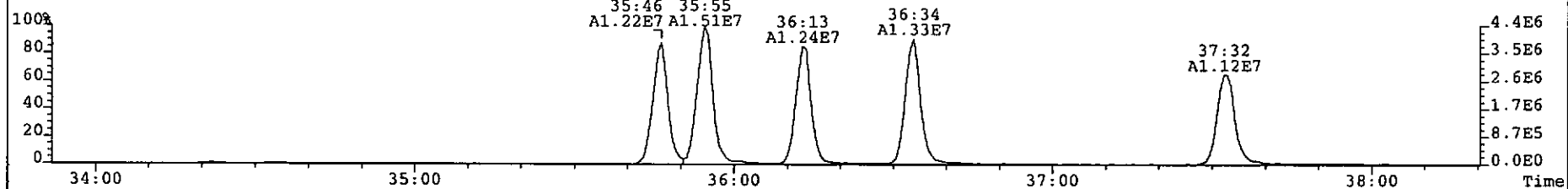
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 158



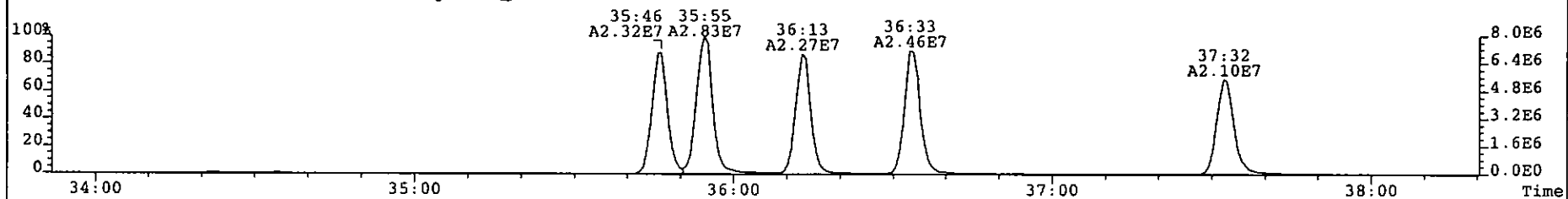
375.8178 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 133



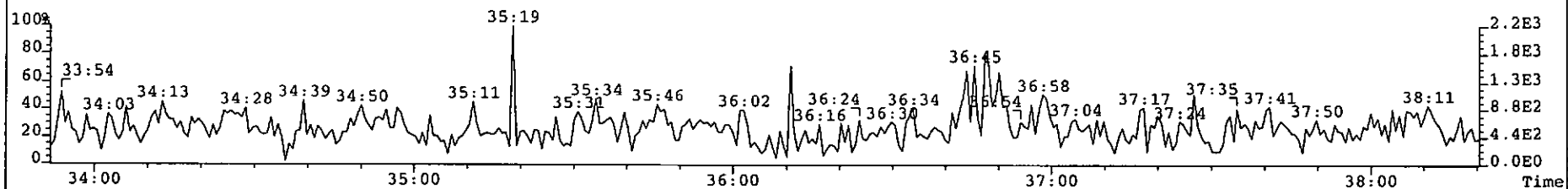
383.8639 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1631



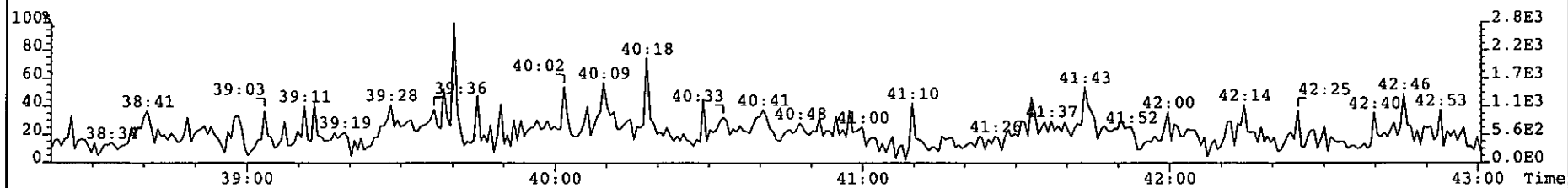
385.8610 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2488



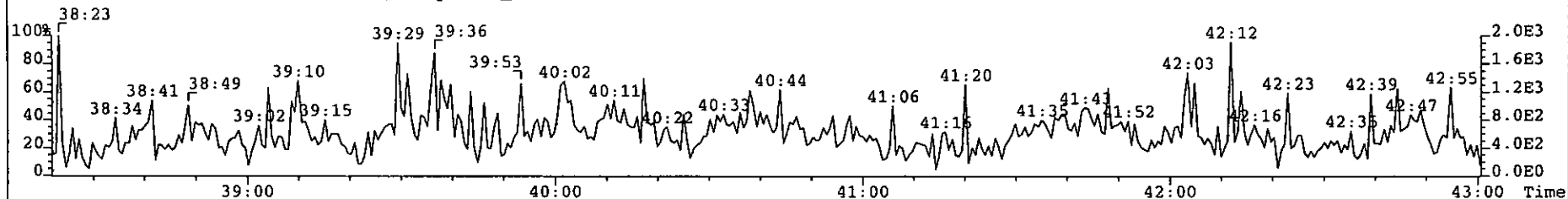
445.7555 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 184



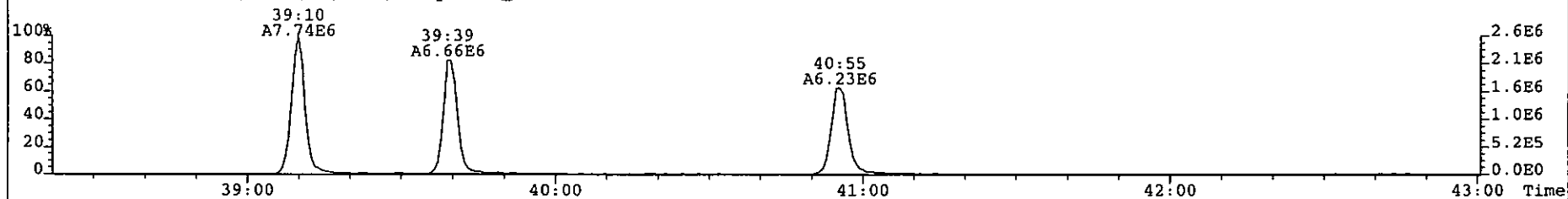
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6875_DF_SDS_0_6875_MB001 Vial# 46 File Text: AP DB5
407.7818 S:4 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 174



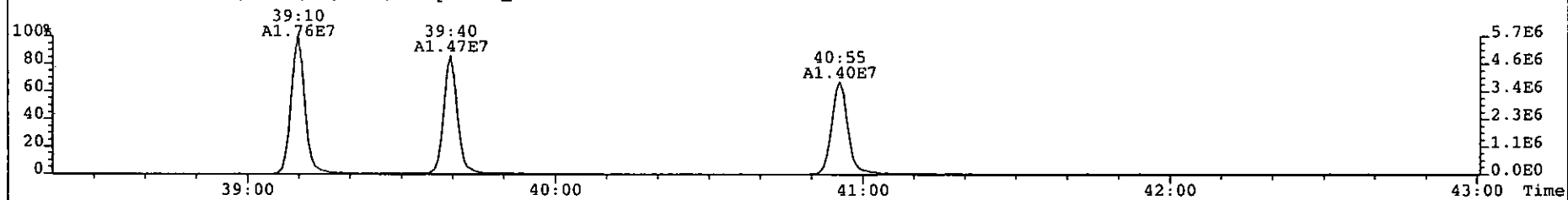
409.7788 S:4 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 182



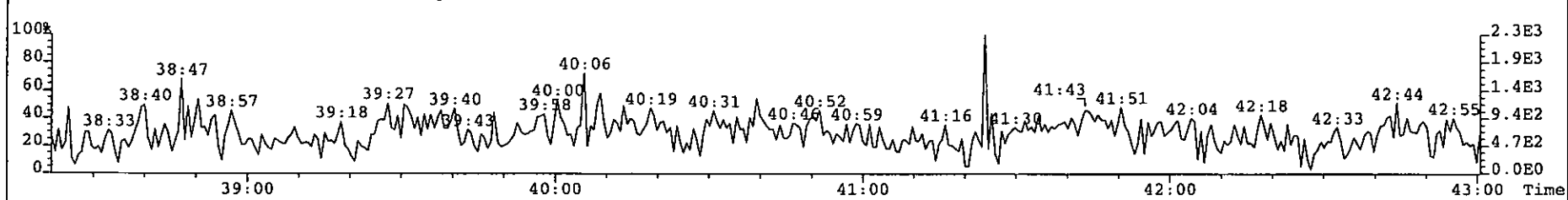
417.8253 S:4 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1419



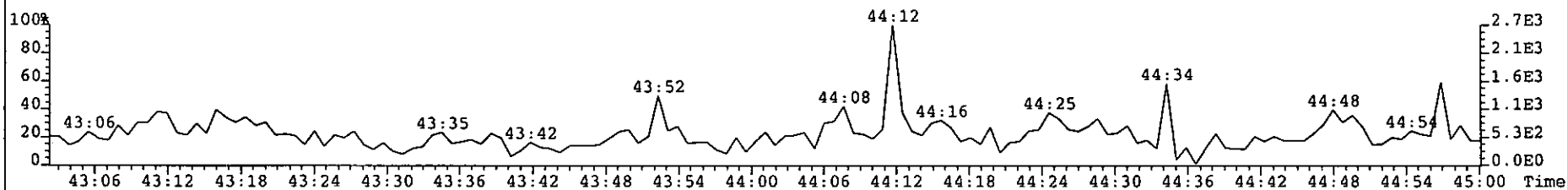
419.8220 S:4 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2670



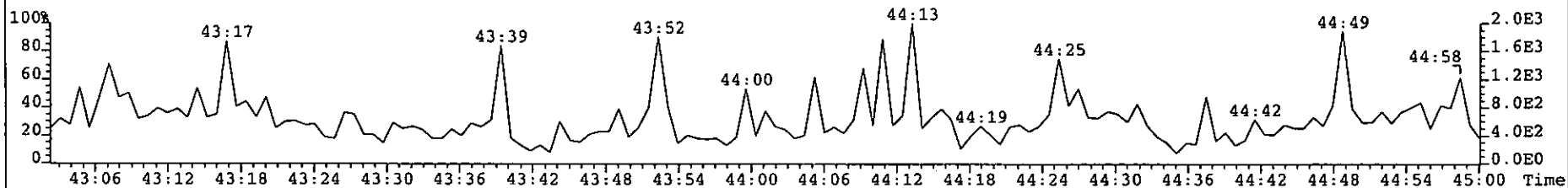
479.7165 S:4 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 222



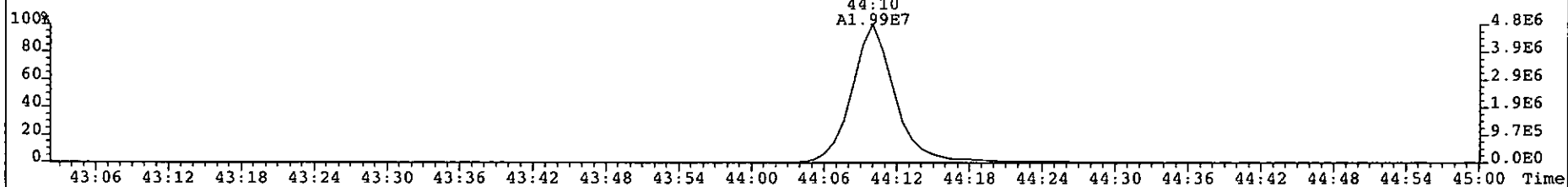
File: 090614P1 Acq: 14-JUN-2009 11:35:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6875_DF_SDS 0_6875_MB001 Vial# 46 File Text: AP DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 175



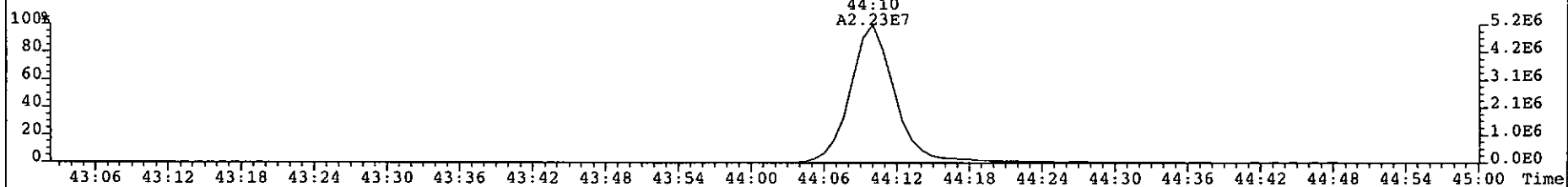
443.7398 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 178



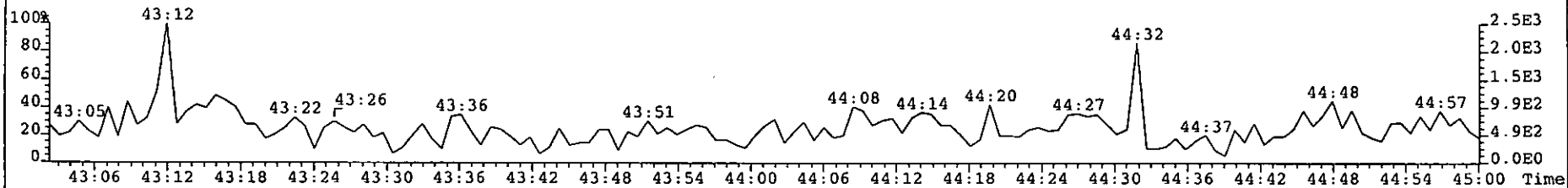
453.7830 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 208



455.7801 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 176



513.6775 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 185



1613/8290 Sample Summary Analytical Perspectives [Form: DF]

Client ID: BW-01-SS-090602 Filename: 090614P1 S: 5 Vial: 48 Acq: 14-JUN-09 12:25:00
 Lab ID: P1376_6875_001 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 10.03
 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	7.02e+04	0.80 y	27:20	1.08	0.338	656	2.5	0.0615	-
Ax	1,2,3,7,8-PeCDD	2.09e+05	1.69 y	32:51	1.00	1.27	864	2.5	0.132	-
Ax	1,2,3,4,7,8-HxCDD	3.16e+05	1.34 y	36:46	1.08	2.24	3110	2.5	0.428	-
Ax	1,2,3,6,7,8-HxCDD	2.04e+06	1.20 y	36:53	0.94	15.0	3110	2.5	0.473	-
Ax	1,2,3,7,8,9-HxCDD	8.43e+05	1.14 y	37:11	0.99	5.94	3110	2.5	0.489	-
Ax	1,2,3,4,6,7,8-HpCDD	3.56e+07	1.07 y	40:23	0.97	264	17204	2.5	2.30	-
Ax	OCDD	2.10e+08	0.91 y	43:58	1.06	2380	22596	2.5	5.42	-
Ax2	OCDD-a	1.31e+07	2.58 y	43:58	0.06	2480	3007	2.5	12.1	-
Ax	2,3,7,8-TCDF	3.97e+05	0.77 y	26:26	1.05	1.48	777	2.5	0.0573	-
Ax	1,2,3,7,8-PeCDF	2.13e+05	1.56 y	31:21	0.98	0.800	1612	2.5	0.150	-
Ax	2,3,4,7,8-PeCDF	4.43e+05	1.49 y	32:31	1.01	1.61	1612	2.5	0.134	-
Ax	1,2,3,4,7,8-HxCDF	4.30e+05	1.20 y	35:48	1.22	1.97	1971	2.5	0.111	-
Ax	1,2,3,6,7,8-HxCDF	4.45e+05	1.20 y	35:57	1.15	1.81	1971	2.5	0.111	-
Ax	2,3,4,6,7,8-HxCDF	5.67e+05	1.24 y	36:36	1.13	2.65	1971	2.5	0.118	-
Ax	1,2,3,7,8,9-HxCDF	1.01e+05	1.60 y	37:37	1.12	0.569	1971	2.5	0.158	-
Ax	1,2,3,4,6,7,8-HpCDF	8.35e+06	1.04 y	39:12	1.37	44.6	6190	2.5	0.386	-
Ax	1,2,3,4,7,8,9-HpCDF	3.89e+05	0.93 y	40:57	1.32	2.72	6190	2.5	0.597	-
Ax	OCDF	1.28e+07	0.87 y	44:12	0.94	118	5107	2.5	1.01	-
Ax2	OCDF-a	7.83e+05	2.72 y	44:12	0.05	128	5139	2.5	18.0	-
ES	13C-2,3,7,8-TCDD	3.82e+07	0.85 y	27:19	0.99	170	692	2.5	0.0600	85.2
ES	13C-1,2,3,7,8-PeCDD	3.29e+07	1.66 y	32:50	0.83	174	8180	2.5	0.844	87.3
ES	13C-1,2,3,4,7,8-HxCDD	2.60e+07	1.32 y	36:46	1.08	173	11006	2.5	1.35	86.8
ES	13C-1,2,3,6,7,8-HxCDD	2.88e+07	1.30 y	36:53	1.23	169	11006	2.5	1.20	84.8
ES	13C-1,2,3,7,8,9-HxCDD	2.85e+07	1.29 y	37:11	1.21	170	11006	2.5	1.21	85.0
ES	13C-1,2,3,4,6,7,8-HpCDD	2.76e+07	1.07 y	40:22	0.98	202	16215	2.5	2.20	101
ES	13C-OCDD	3.32e+07	0.86 y	43:57	0.66	363	7373	2.5	1.49	90.9
ES	13C-2,3,7,8-TCDF	5.11e+07	0.84 y	26:24	0.96	157	614	2.5	0.0385	78.5
ES	13C-1,2,3,7,8-PeCDF	5.38e+07	1.54 y	31:21	0.85	185	17082	2.5	1.20	92.7
ES	13C-2,3,4,7,8-PeCDF	5.40e+07	1.52 y	32:29	0.88	179	17082	2.5	1.16	89.9
ES	13C-1,2,3,4,7,8-HxCDF	3.59e+07	0.53 y	35:47	1.47	175	16867	2.5	1.52	87.8
ES	13C-1,2,3,6,7,8-HxCDF	4.26e+07	0.54 y	35:56	1.78	173	16867	2.5	1.27	86.6
ES	13C-2,3,4,6,7,8-HxCDF	3.77e+07	0.53 y	36:35	1.61	169	16867	2.5	1.40	84.6
ES	13C-1,2,3,7,8,9-HxCDF	3.19e+07	0.53 y	37:34	1.40	164	16867	2.5	1.60	82.2
ES	13C-1,2,3,4,6,7,8-HpCDF	2.73e+07	0.45 y	39:11	1.16	170	11576	2.5	1.33	85.1
ES	13C-1,2,3,4,7,8,9-HpCDF	2.16e+07	0.44 y	40:57	0.92	169	11576	2.5	1.67	84.6
ES	13C-OCDF	4.60e+07	0.90 y	44:12	1.04	320	13931	2.5	1.79	80.1
CS	37C1-2,3,7,8-TCDD	1.55e+07		27:20	0.99	69.2			0.581	86.8
CS	13C-1,2,3,4,7-PeCDD	3.18e+07	1.66 y	32:20	0.77	182	8180	2.5	0.915	91.5
CS	13C-1,2,3,4,6-PeCDF	5.19e+07	1.52 y	30:48	0.79	192	17082	2.5	1.29	96.2
CS	13C-1,2,3,4,6,9-HxCDF	3.57e+07	0.54 y	36:14	1.41	182	16867	2.5	1.59	91.2
CS	13C-1,2,3,4,6,8,9-HpCDF	2.54e+07	0.44 y	39:41	0.91	201	11576	2.5	1.70	101
NA	n/a	*	* n	NotF»	Div0	*	3817	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	4.52e+07	0.84 y	26:38	-	12.9	692	2.5	-	-
JS	13C-1,2,3,4-TCDF	6.80e+07	0.82 y	24:59	-	12.2	614	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.38e+07	1.29 y	37:04	-	6.34	792	2.5	-	-

19 Jun 09
 19 Jun 09
 19 Jun 09

Handwritten mark

Analyst: *[Signature]*
 Date: *19 Jun 09*
MS
19 Jun 09

SS	37Cl-2,3,7,8-TCDD	1.55e+07		27:20	1.00	80.8		0.677	101
SS	13C-1,2,3,4,7-PeCDD	3.18e+07	1.66 y	32:20	0.93	208	8180 2.5	1.34	104
SS	13C-1,2,3,4,6-PeCDF	5.19e+07	1.52 y	30:48	0.94	206	17082 2.5	1.67	103
SS	13C-1,2,3,4,6,9-HxCDF	3.57e+07	0.54 y	36:14	0.80	208	16867 2.5	1.37	105
SS	13C-1,2,3,4,6,8,9-HpCDF	2.54e+07	0.44 y	39:41	0.79	234	11576 2.5	1.25	117
SBS	2,4,6,8-TCDF	5.01e+05	0.98 n	22:31	1.05	1.87	777 2.5	0.0573	-
Ay	1,3,6,8-TCDD	8.67e+05	0.77 y	23:30	1.08	4.17	656 2.5	0.0615	-
Ay	1,2,3,9-TCDD	2.24e+04	0.59 n	27:11	1.08	0.108	656 2.5	0.0615	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	656 2.5	0.0615	-
Ay	1,2,4,7,9-PeCDD	8.67e+05	1.61 y	30:17	1.00	5.26	864 2.5	0.132	-
Ay	1,2,3,8,9-PeCDD	7.71e+04	1.24 n	33:18	1.00	0.468	864 2.5	0.132	-
Ay	1,2,4,6,7,9-HxCDD	4.24e+06	1.16 y	35:04	1.00	30.4	3110 2.5	0.463	-
Ay	1,2,3,4,6,7,9-HpCDD	3.97e+07	1.05 y	39:31	0.97	295	17204 2.5	2.30	-
Ay	1,3,6,8-TCDF	1.73e+05	0.86 y	21:18	1.05	0.645	777 2.5	0.0573	-
Ay	2,3,4,8-TCDF	1.00e+05	0.67 y	26:18	1.05	0.375	777 2.5	0.0573	-
Ay	1,2,8,9-TCDF	2.24e+05	0.77 y	28:30	1.05	0.836	777 2.5	0.0573	-
Ay	1,3,4,6,8-PeCDF	2.33e+06	1.91 n	28:29	1.05	8.68	3035 2.5	0.224	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	1612 2.5	0.142	-
Ay	1,2,3,4,6,8-HxCDF	1.84e+06	1.29 y	34:24	1.15	8.61	1971 2.5	0.123	-
Tot	Total Tetra-Dioxins	3.07e+06	0.77 y	23:30	1.08	14.8	656 2.5	0.0615	-
Tot	Total Penta-Dioxins	2.94e+06	1.61 y	30:17	1.00	17.8	864 2.5	0.132	-
Tot	Total Hexa-Dioxins	1.56e+07	1.16 y	35:04	1.00	112	3110 2.5	0.463	-
Tot	Total Hepta-Dioxins	7.53e+07	1.05 y	39:31	0.97	559	17204 2.5	2.30	-
Tot	Total Tetra-Furans	4.05e+06	0.86 y	21:18	1.05	15.1	777 2.5	0.0573	-
Tot	Total Penta-Furans	3.15e+06	1.48 y	30:04	1.00	11.6	1612 2.5	0.142	-
Tot	Total Hexa-Furans	1.39e+07	1.29 y	34:24	1.15	64.6	1971 2.5	0.123	-
Tot	Total Hepta-Furans	2.54e+07	1.04 y	39:12	1.35	148	6190 2.5	0.477	-
Tot	TCDD EMPC	3.37e+06	0.77 y	23:30	1.08	16.2	656 2.5	0.0615	-
Tot	PeCDD EMPC	3.07e+06	1.61 y	30:17	1.00	18.6	864 2.5	0.132	-
Tot	HxCDD EMPC	1.56e+07	1.16 y	35:04	1.00	112	3110 2.5	0.463	-
Tot	HpCDD EMPC	7.53e+07	1.05 y	39:31	0.97	559	17204 2.5	2.30	-
Tot	TCDF EMPC	4.61e+06	0.86 y	21:18	1.05	17.2	777 2.5	0.0573	-
Tot	PeCDF EMPC	3.24e+06	1.48 y	30:04	1.00	12.0	1612 2.5	0.142	-
Tot	HxCDF EMPC	1.42e+07	1.29 y	34:24	1.15	66.2	1971 2.5	0.123	-
Tot	HpCDF EMPC	2.54e+07	1.04 y	39:12	1.35	148	6190 2.5	0.477	-
AS	13C-1,3,6,8-TCDD	3.51e+07	0.82 y	23:28	1.09	143	692 2.5	0.0548	71.5
AS	13C-1,3,6,8-TCDF	7.10e+07	0.81 y	21:16	1.09	191	614 2.5	0.0338	96.0
DPE	HxCDFE	*		NotF»	-	*	-	-	-
DPE	HpCDFE	*		NotF»	-	*	-	-	-
DPE	OCDFE	*		NotF»	-	*	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-
DPE	DCDFE	*		NotF»	-	*	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

Total Conc.: 16.242 Unnamed Conc.: 11.625 Homolog count: 13

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:30	3.784e+05	n	4.883e+05	n	0.77	y	8.667e+05	8.667e+05	1.39e+02	y	4.17	1,3,6,8-TCDD
23:52	2.898e+05	n	3.352e+05	n	0.86	y	6.250e+05	6.250e+05	9.58e+01	y	3.01	
24:20	2.358e+04	n	2.249e+04	n	1.05	n	4.607e+04	3.981e+04	9.65e+00	y	0.192	
25:10	4.229e+05	n	5.349e+05	n	0.79	y	9.577e+05	9.577e+05	1.68e+02	y	4.61	
25:24	3.405e+04	n	5.124e+04	y	0.66	y	8.529e+04	8.529e+04	1.72e+01	y	0.410	
25:36	6.782e+04	n	7.575e+04	y	0.90	n	1.436e+05	1.341e+05	2.52e+01	y	0.645	
25:49	3.289e+04	y	1.898e+04	y	1.73	n	5.186e+04	3.359e+04	7.08e+00	y	0.162	
26:15	2.096e+04	n	2.348e+04	y	0.89	n	4.444e+04	4.156e+04	1.08e+01	y	0.200	
26:39	6.951e+04	n	9.785e+04	n	0.71	y	1.674e+05	1.674e+05	2.63e+01	y	0.805	
27:03	1.280e+05	n	1.662e+05	y	0.77	y	2.942e+05	2.942e+05	5.83e+01	y	1.42	
27:11	9.748e+03	y	1.665e+04	y	0.59	n	2.640e+04	2.241e+04	9.88e+00	y	0.108	1,2,3,9-TCDD
27:20	3.116e+04	n	3.903e+04	n	0.80	y	7.019e+04	7.019e+04	1.86e+01	y	0.338	2,3,7,8-TCDD
27:40	1.865e+04	n	2.094e+04	y	0.89	n	3.959e+04	3.707e+04	8.19e+00	y	0.178	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

Total Conc.: 18.641 Unnamed Conc.: 11.647 Homolog count: 10

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:17	5.345e+05	n	3.324e+05	n	1.61	y	8.669e+05	8.669e+05	8.02e+01	y	5.26	1,2,4,7,9-PeCDD
30:50	1.121e+05	n	7.524e+04	n	1.49	y	1.873e+05	1.873e+05	2.19e+01	y	1.14	
31:24	3.466e+05	n	2.261e+05	n	1.53	y	5.727e+05	5.727e+05	7.68e+01	y	3.47	
31:36	1.471e+05	y	8.370e+04	y	1.76	y	2.308e+05	2.308e+05	2.89e+01	y	1.40	
31:42	2.481e+05	y	1.839e+05	y	1.35	y	4.320e+05	4.320e+05	5.03e+01	y	2.62	
31:58	1.510e+05	n	9.980e+04	y	1.51	y	2.508e+05	2.508e+05	2.04e+01	y	1.52	
32:20	1.181e+05	n	7.478e+04	n	1.58	y	1.929e+05	1.929e+05	2.50e+01	y	1.17	
32:51	1.314e+05	n	7.778e+04	n	1.69	y	2.092e+05	2.092e+05	2.67e+01	y	1.27	1,2,3,7,8-PeCDD
32:57	4.102e+04	n	2.117e+04	y	1.94	n	6.220e+04	5.399e+04	1.11e+01	y	0.327	
33:18	4.686e+04	n	3.780e+04	y	1.24	n	8.466e+04	7.709e+04	2.17e+01	y	0.468	1,2,3,8,9-PeCDD

Totals-Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

Total Conc.: 112.08 Unnamed Conc.: 58.536 Homolog count: 8

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:04	2.277e+06	n	1.966e+06	n	1.16	y	4.243e+06	4.243e+06	1.85e+02	y	30.4	1,2,4,6,7,9-HxCDD

35:44	8.126e+05	n	6.474e+05	n	1.26	y	1.460e+06	1.460e+06	5.95e+01	y	10.5
36:01	3.436e+06	y	2.728e+06	y	1.26	y	6.164e+06	6.164e+06	2.03e+02	y	44.1
36:08	1.736e+05	y	1.617e+05	y	1.07	y	3.353e+05	3.353e+05	1.38e+01	y	2.40
36:46	1.811e+05	y	1.351e+05	y	1.34	y	3.161e+05	3.161e+05	1.38e+01	y	2.24 1,2,3,4,7,8-HxCDD
36:53	1.115e+06	n	9.271e+05	n	1.20	y	2.042e+06	2.042e+06	8.23e+01	y	15.0 1,2,3,6,7,8-HxCDD
37:05	1.166e+05	y	1.012e+05	y	1.15	y	2.179e+05	2.179e+05	1.05e+01	y	1.56
37:11	4.484e+05	y	3.942e+05	y	1.14	y	8.426e+05	8.426e+05	3.75e+01	y	5.94 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDD EMPC Function: 4 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

Total Conc.: 558.86 Unnamed Conc.: * Homolog count: 2

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:31	2.033e+07	n	1.936e+07	n	1.05	y	3.969e+07	3.969e+07	3.45e+02	y 295 1,2,3,4,6,7,9-HpCDD
40:22	1.835e+07	n	1.721e+07	n	1.07	y	3.556e+07	3.556e+07	2.87e+02	y 264 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: TCDF EMPC Function: 1 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

Total Conc.: 17.226 Unnamed Conc.: 12.016 Homolog count: 19

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:18	7.980e+04	n	9.303e+04	n	0.86	y	1.728e+05	1.728e+05	2.89e+01	y 0.645 1,3,6,8-TCDF
21:52	6.239e+04	y	7.516e+04	y	0.83	y	1.376e+05	1.376e+05	2.30e+01	y 0.513
22:31	2.766e+05	n	2.832e+05	n	0.98	n	5.599e+05	5.013e+05	7.13e+01	y 1.87 2,4,6,8-TCDF
23:02	2.143e+05	y	3.031e+05	y	0.71	y	5.174e+05	5.174e+05	4.29e+01	y 1.93
23:27	1.858e+05	n	2.327e+05	n	0.80	y	4.185e+05	4.185e+05	3.80e+01	y 1.56
23:54	1.114e+05	y	1.266e+05	y	0.88	y	2.380e+05	2.380e+05	3.65e+01	y 0.888
24:03	4.514e+04	y	6.017e+04	y	0.75	y	1.053e+05	1.053e+05	1.60e+01	y 0.393
24:14	5.916e+04	y	7.879e+04	y	0.75	y	1.380e+05	1.380e+05	2.31e+01	y 0.515
24:37	2.908e+04	y	5.053e+04	y	0.58	n	7.961e+04	6.684e+04	1.32e+01	y 0.250
24:45	8.256e+04	y	1.007e+05	y	0.82	y	1.833e+05	1.833e+05	2.44e+01	y 0.684
24:57	1.992e+05	y	2.801e+05	y	0.71	y	4.793e+05	4.793e+05	4.13e+01	y 1.79
25:30	1.114e+05	n	1.428e+05	n	0.78	y	2.542e+05	2.542e+05	4.49e+01	y 0.949
25:47	3.733e+04	y	5.343e+04	n	0.70	y	9.076e+04	9.076e+04	1.45e+01	y 0.339
25:58	3.882e+04	y	5.374e+04	y	0.72	y	9.255e+04	9.255e+04	1.73e+01	y 0.346
26:10	6.325e+04	y	7.151e+04	y	0.88	y	1.348e+05	1.348e+05	2.09e+01	y 0.503
26:18	4.032e+04	y	6.017e+04	y	0.67	y	1.005e+05	1.005e+05	2.92e+01	y 0.375 2,3,4,8-TCDF
26:26	1.731e+05	y	2.237e+05	y	0.77	y	3.968e+05	3.968e+05	6.82e+01	y 1.48 2,3,7,8-TCDF
26:48	1.625e+05	n	1.999e+05	n	0.81	y	3.624e+05	3.624e+05	5.23e+01	y 1.35
28:30	9.755e+04	n	1.265e+05	n	0.77	y	2.240e+05	2.240e+05	3.70e+01	y 0.836 1,2,8,9-TCDF
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: PeCDF EMPC Function: 2 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

Total Conc.: 11.982 Unnamed Conc.: 9.569 Homolog count: 11

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
30:04	1.535e+05	y	1.038e+05	y	1.48	y	2.573e+05	2.573e+05	1.48e+01	y	0.952	
30:14	7.017e+05	y	4.644e+05	n	1.51	y	1.166e+06	1.166e+06	4.84e+01	y	4.32	
30:25	2.041e+04	y	8.177e+03	y	2.50	n	2.858e+04	2.085e+04	2.16e+00	n	0.0772	
30:39	3.042e+04	y	2.503e+04	y	1.22	n	5.544e+04	5.004e+04	4.16e+00	y	0.185	
30:54	3.384e+05	y	2.159e+05	y	1.57	y	5.542e+05	5.542e+05	2.84e+01	y	2.05	
31:08	6.078e+04	y	4.107e+04	y	1.48	y	1.018e+05	1.018e+05	6.61e+00	y	0.377	
31:21	1.296e+05	y	8.308e+04	n	1.56	y	2.126e+05	2.126e+05	1.31e+01	y	0.800	1,2,3,7,8-PeCDF
31:39	1.626e+05	y	1.032e+05	y	1.58	y	2.658e+05	2.658e+05	1.34e+01	y	0.984	
31:49	1.225e+04	y	1.382e+04	y	0.89	n	2.607e+04	2.015e+04	2.36e+00	n	0.0746	
32:22	9.061e+04	y	5.844e+04	y	1.55	y	1.490e+05	1.490e+05	1.20e+01	y	0.552	
32:31	2.651e+05	y	1.777e+05	n	1.49	y	4.428e+05	4.428e+05	3.04e+01	y	1.61	2,3,4,7,8-PeCDF
Totals Results		Analytical Perspectives						[Form: TOT]				

Totals class: HxCDF EMPC Function: 3 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

Total Conc.: 66.178 Unnamed Conc.: 50.569 Homolog count: 9

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
34:24	1.040e+06	n	8.036e+05	n	1.29	y	1.843e+06	1.843e+06	1.17e+02	y	8.61	1,2,3,4,6,8-HxCDF
34:36	2.767e+06	n	2.199e+06	n	1.26	y	4.966e+06	4.966e+06	3.12e+02	y	23.2	
35:02	6.294e+04	n	6.259e+04	n	1.01	n	1.255e+05	1.137e+05	7.85e+00	y	0.531	
35:16	3.140e+06	n	2.502e+06	n	1.25	y	5.642e+06	5.642e+06	3.87e+02	y	26.4	
35:41	5.667e+04	n	5.941e+04	n	0.95	n	1.161e+05	1.024e+05	1.22e+01	y	0.478	
35:48	2.344e+05	n	1.960e+05	n	1.20	y	4.304e+05	4.304e+05	3.44e+01	y	1.97	1,2,3,4,7,8-HxCDF
35:57	2.426e+05	n	2.028e+05	n	1.20	y	4.453e+05	4.453e+05	3.15e+01	y	1.81	1,2,3,6,7,8-HxCDF
36:36	3.134e+05	n	2.536e+05	n	1.24	y	5.670e+05	5.670e+05	3.83e+01	y	2.65	2,3,4,6,7,8-HxCDF
37:37	7.260e+04	n	4.528e+04	n	1.60	n	1.179e+05	1.014e+05	6.64e+00	y	0.569	1,2,3,7,8,9-HxCDF
Totals Results		Analytical Perspectives						[Form: TOT]				

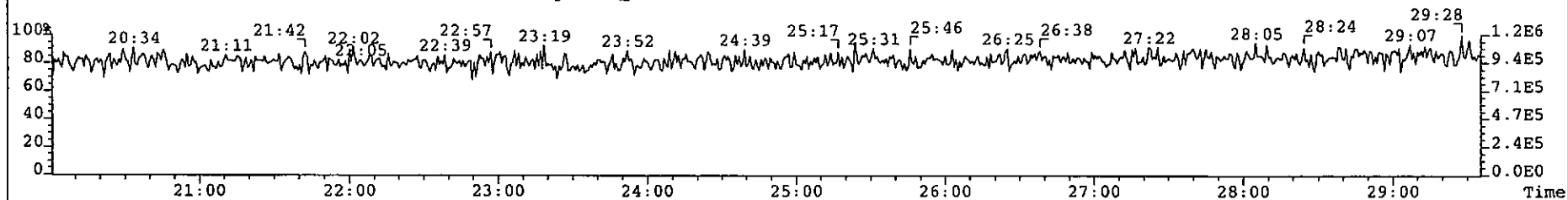
Totals class: HpCDF EMPC Function: 4 Run #: 12 Checkcode: 4424
 File Name: 090614P1 Sample #: 5 Sample text: P1376_6875_001 BW-01-SS-090602 10.0g

Acquired: 14-JUN-09 12:25:00 Processed: 15-JUN-09 09:15:10

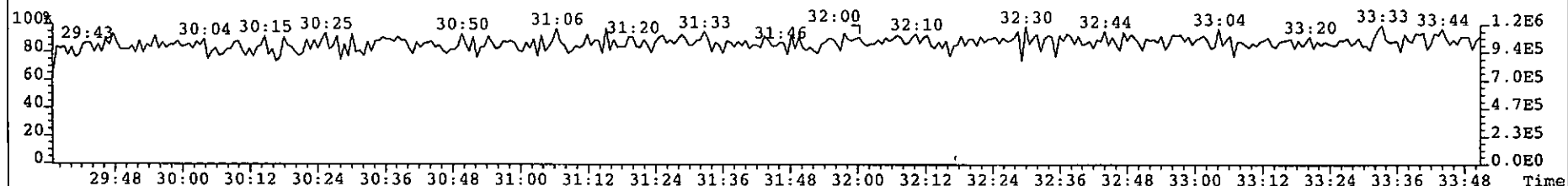
Total Conc.: 148.46 Unnamed Conc.: 101.096 Homolog count: 4

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
39:12	4.256e+06	n	4.098e+06	n	1.04	y	8.354e+06	8.354e+06	2.13e+02	y	44.6	1,2,3,4,6,7,8-HpCDF
39:30	1.050e+05	n	1.151e+05	n	0.91	y	2.200e+05	2.200e+05	4.73e+00	y	1.33	
39:42	8.258e+06	n	8.208e+06	n	1.01	y	1.647e+07	1.647e+07	3.74e+02	y	99.8	
40:57	1.877e+05	n	2.011e+05	n	0.93	y	3.888e+05	3.888e+05	8.82e+00	y	2.72	1,2,3,4,7,8,9-HpCDF

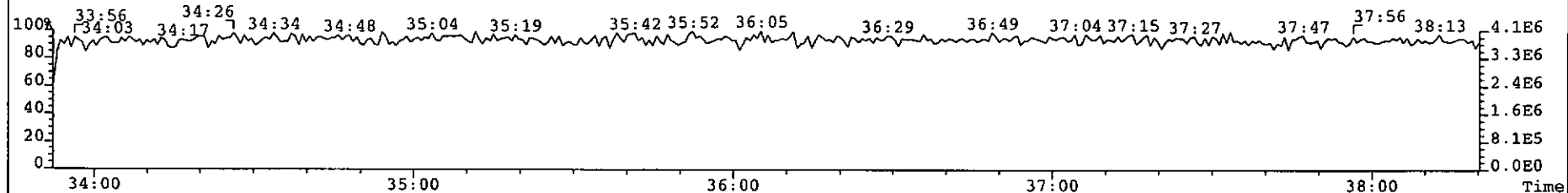
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



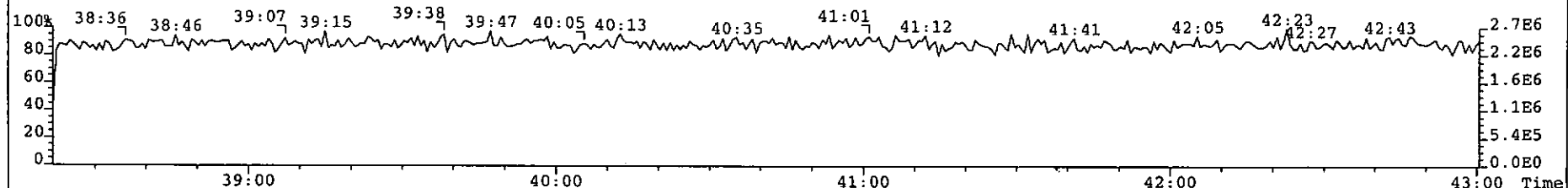
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



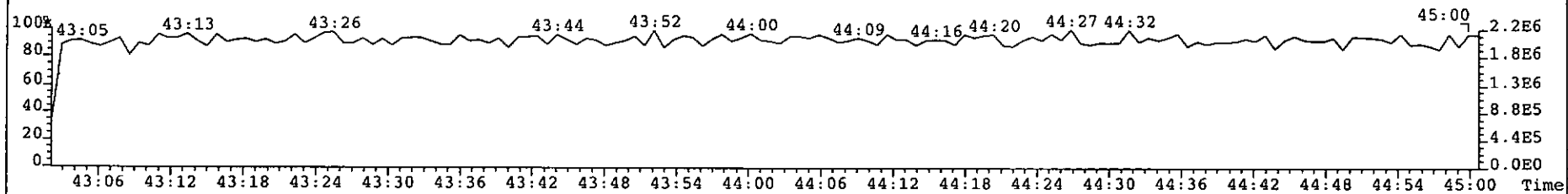
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



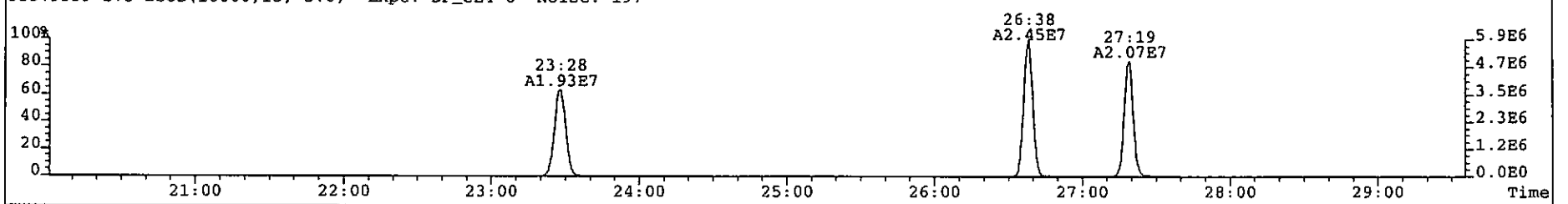
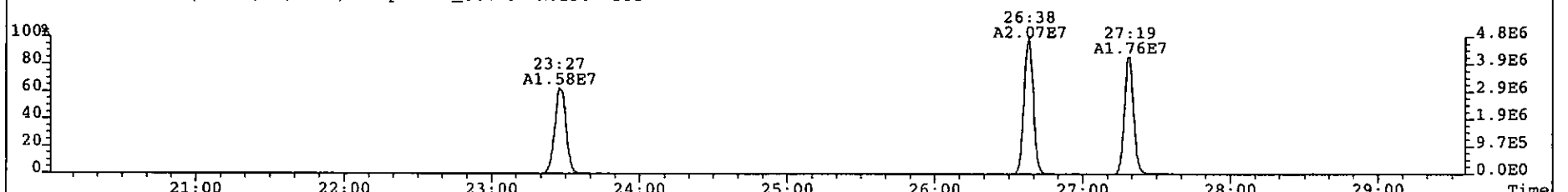
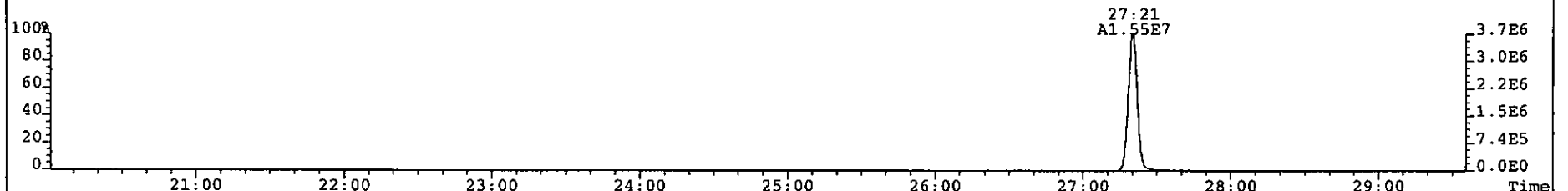
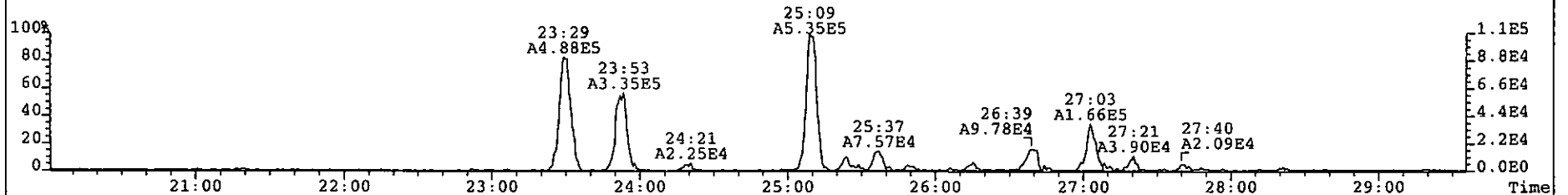
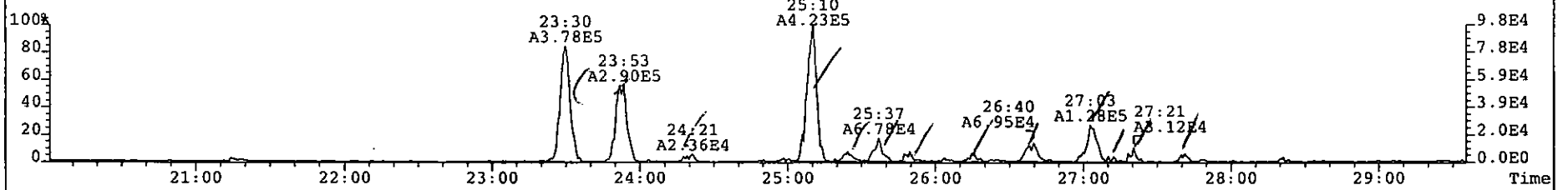
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



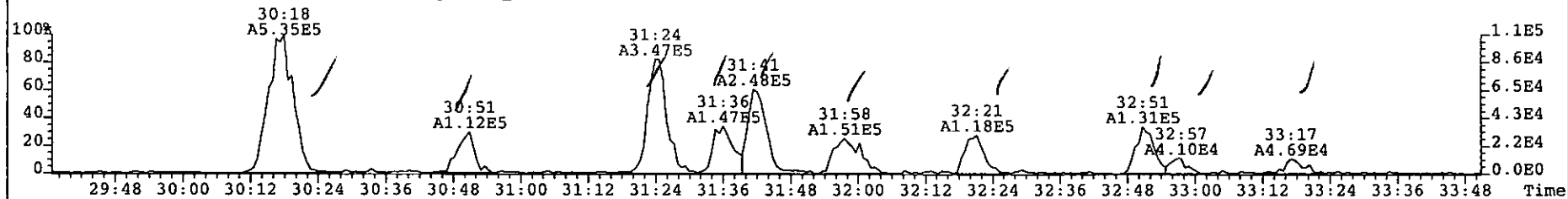
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



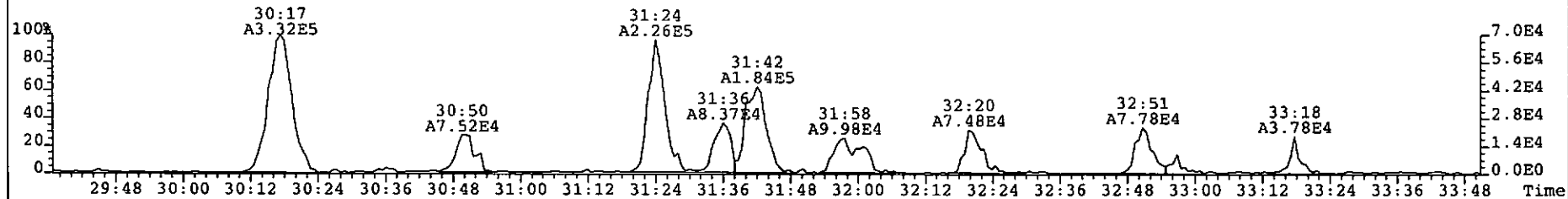
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
319.8965 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 197



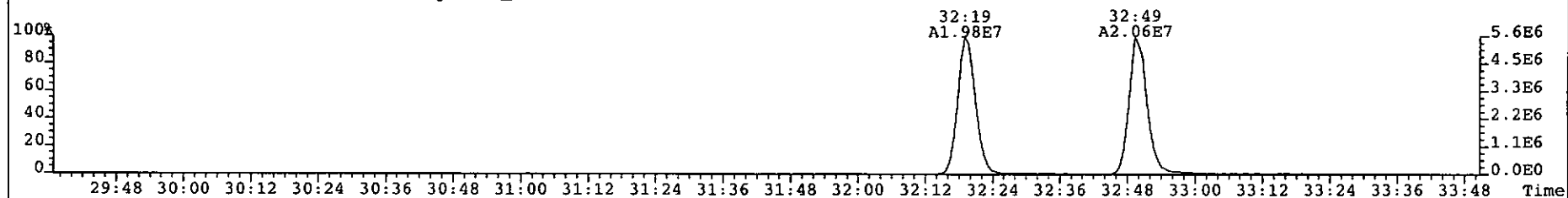
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
355.8546 S:5 F:2 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 300



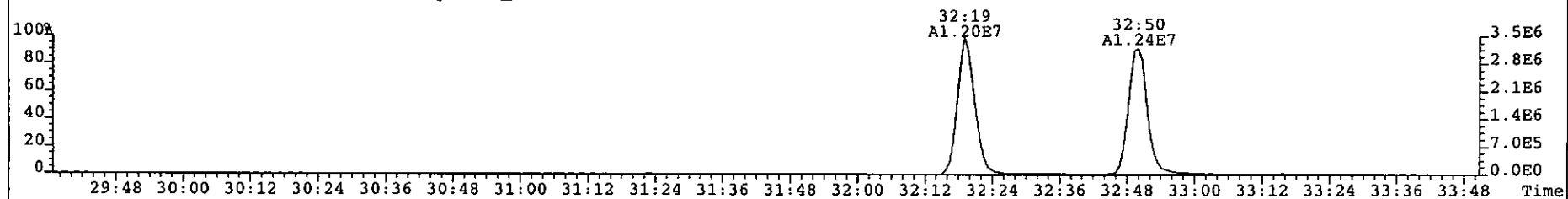
357.8517 S:5 F:2 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 224



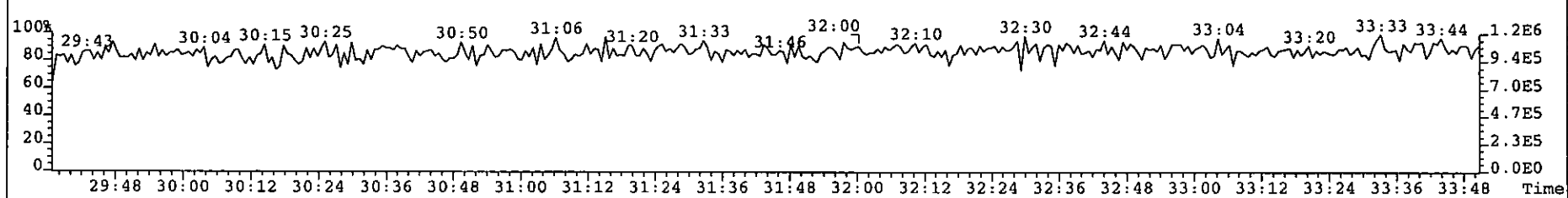
367.8949 S:5 F:2 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 224



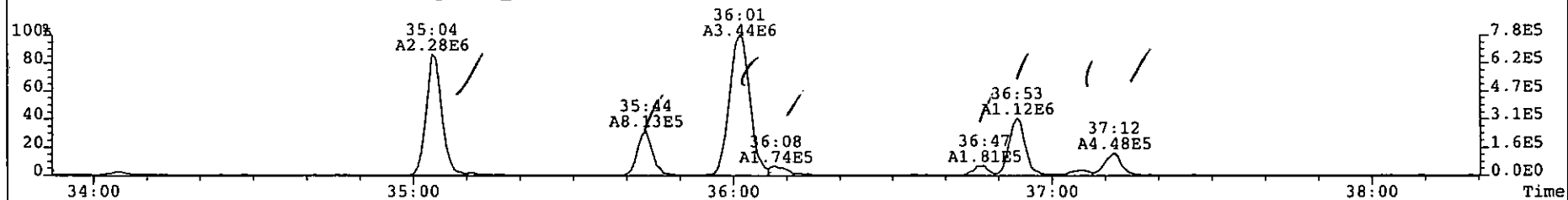
369.8919 S:5 F:2 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 205



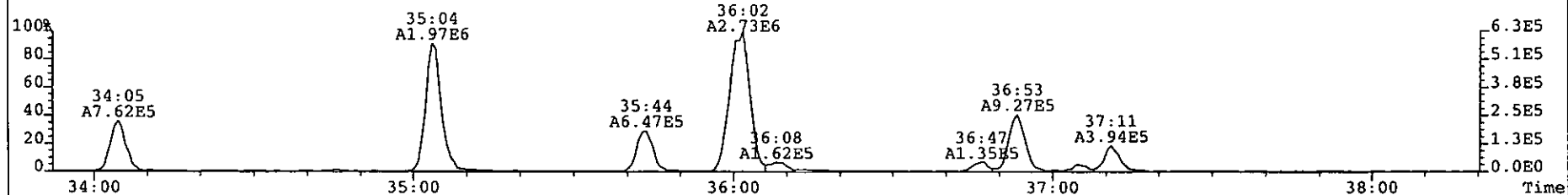
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



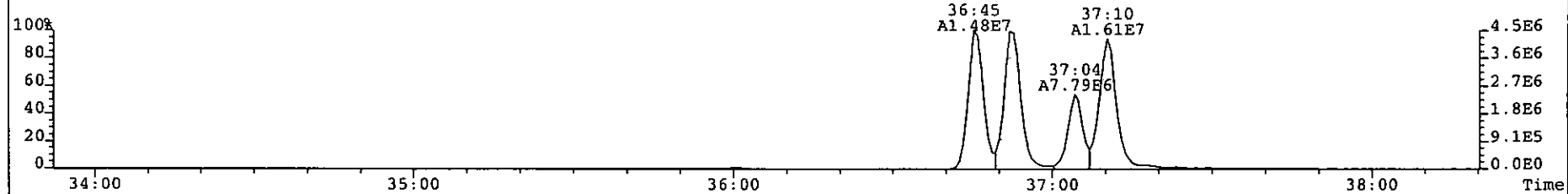
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
389.8156 S:5 F:3 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 591



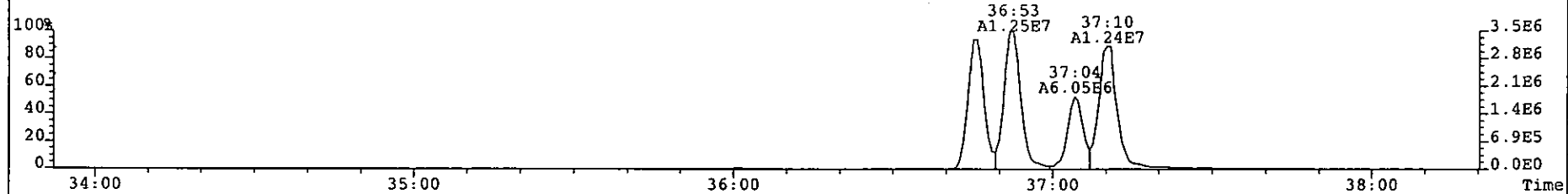
391.8127 S:5 F:3 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 583



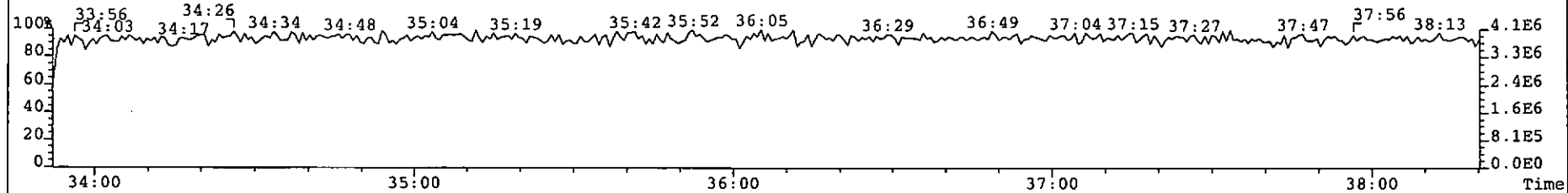
401.8559 S:5 F:3 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 163



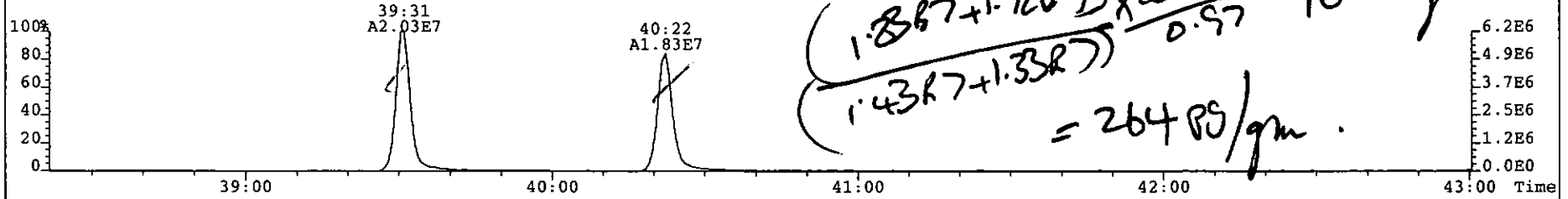
403.8530 S:5 F:3 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 171



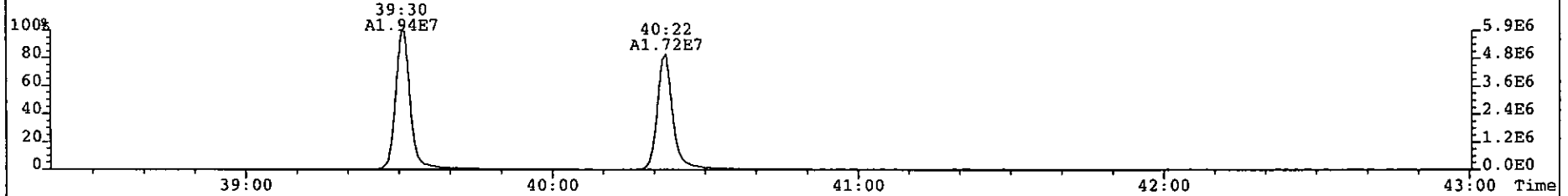
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



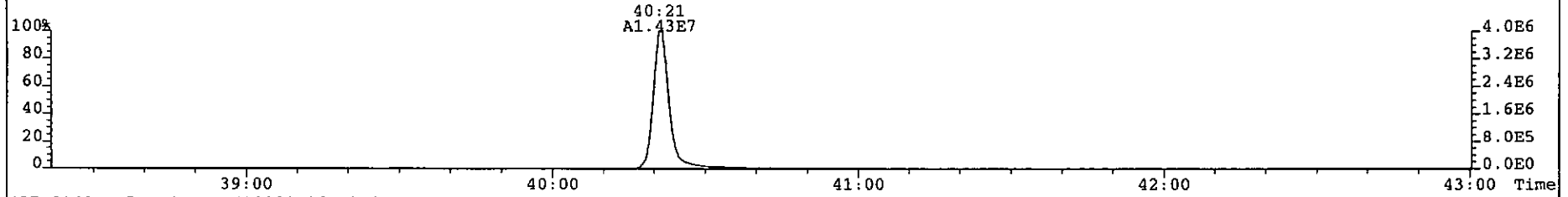
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
 423.7767 S:5 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3091



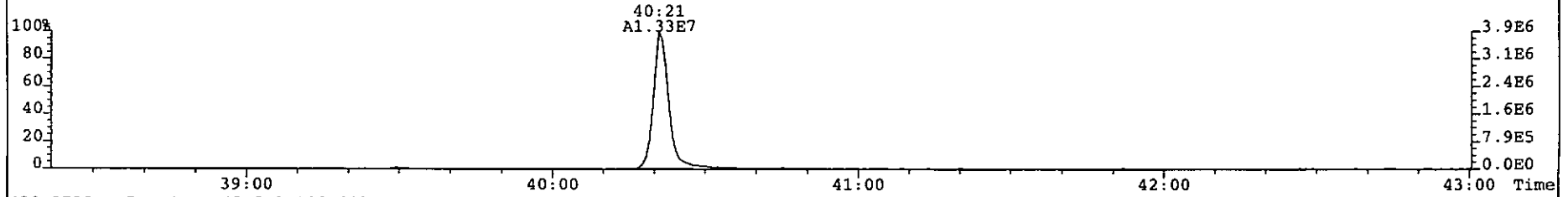
425.7737 S:5 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3034



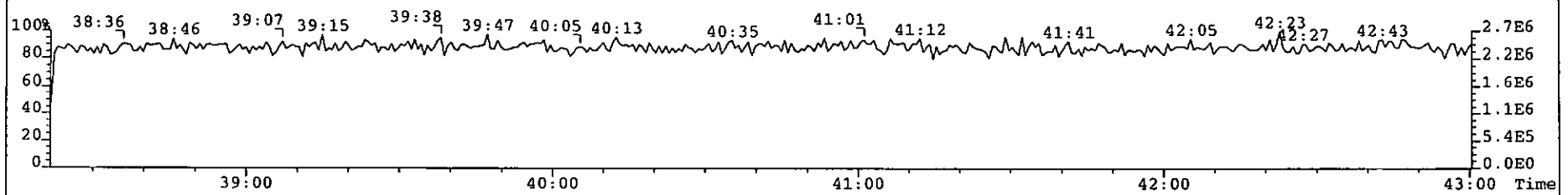
435.8169 S:5 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1070



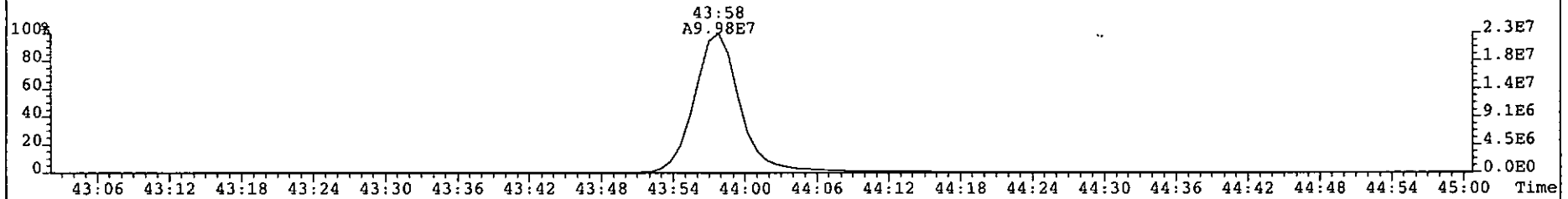
437.8140 S:5 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1792



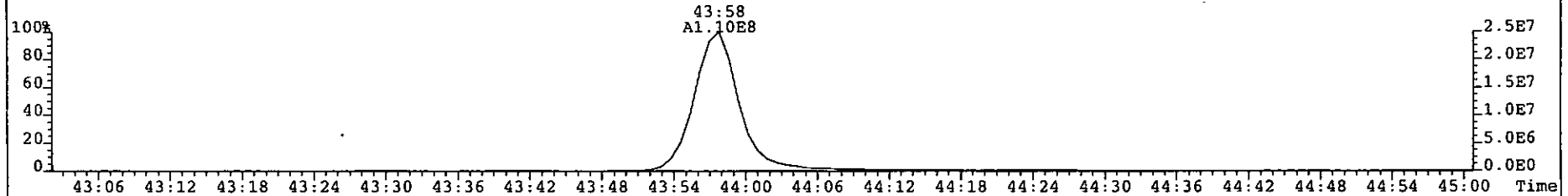
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



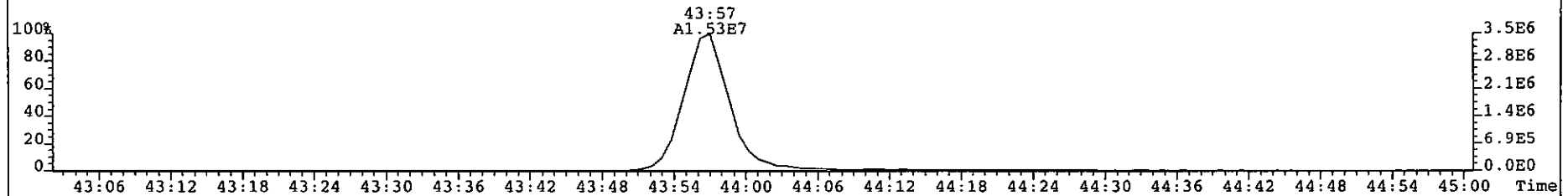
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 4442



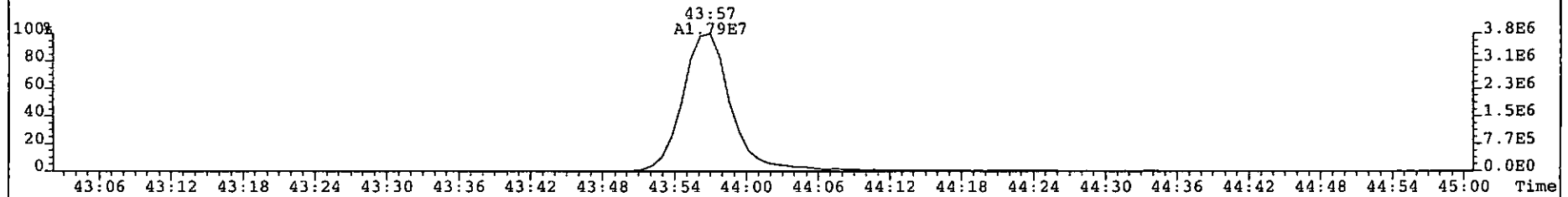
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1538



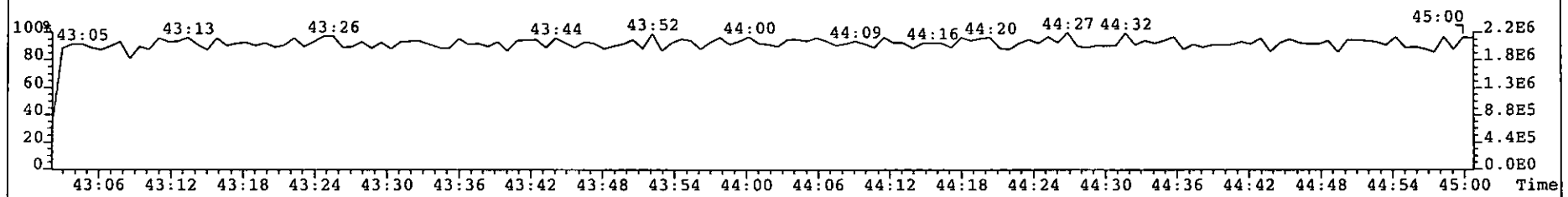
469.7780 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 840



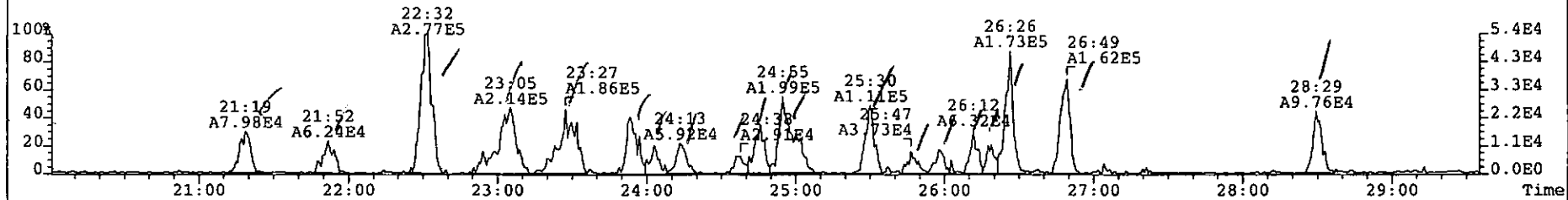
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 581



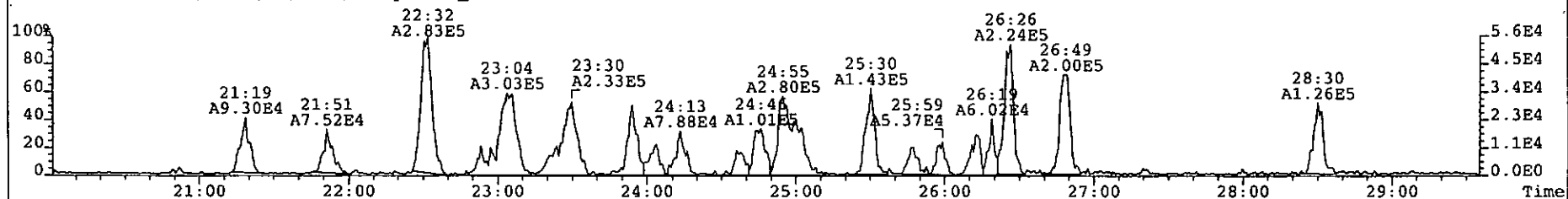
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



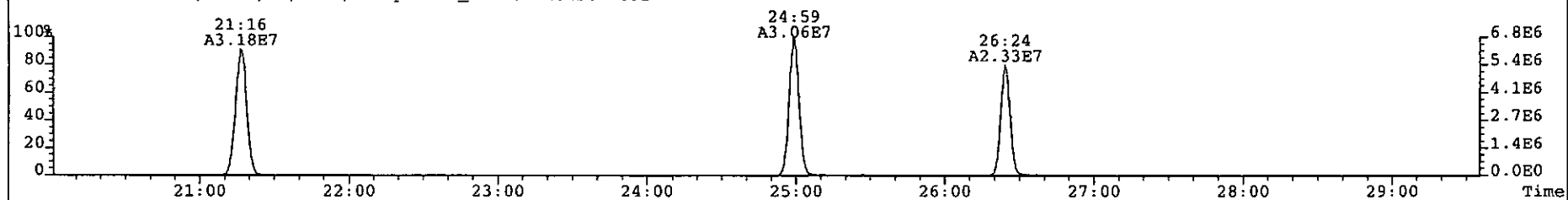
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
303.9016 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 176



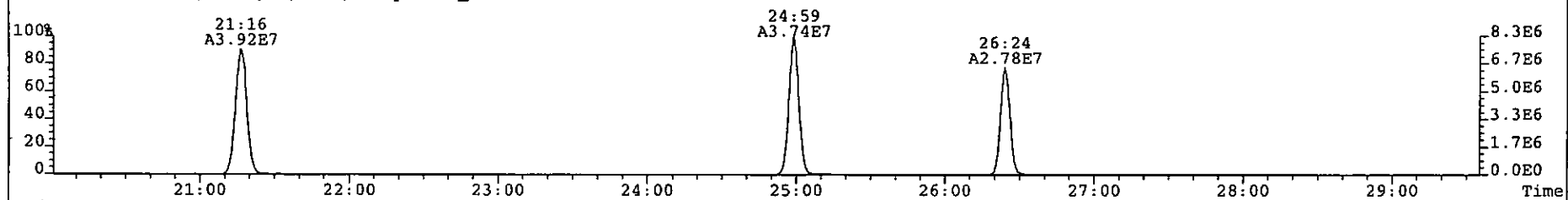
305.8987 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 264



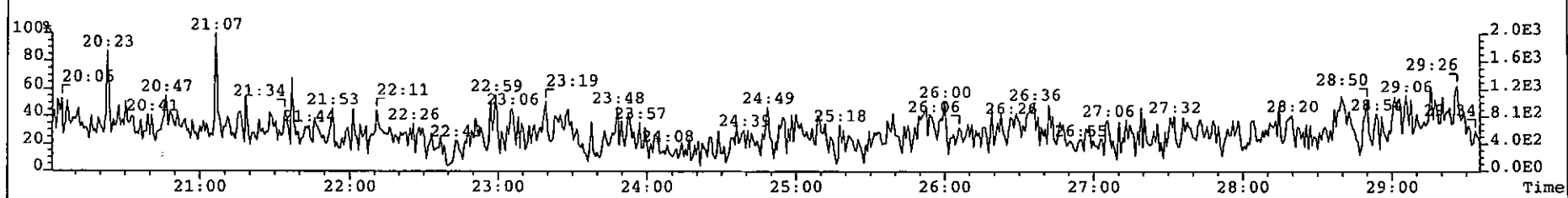
315.9419 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 231



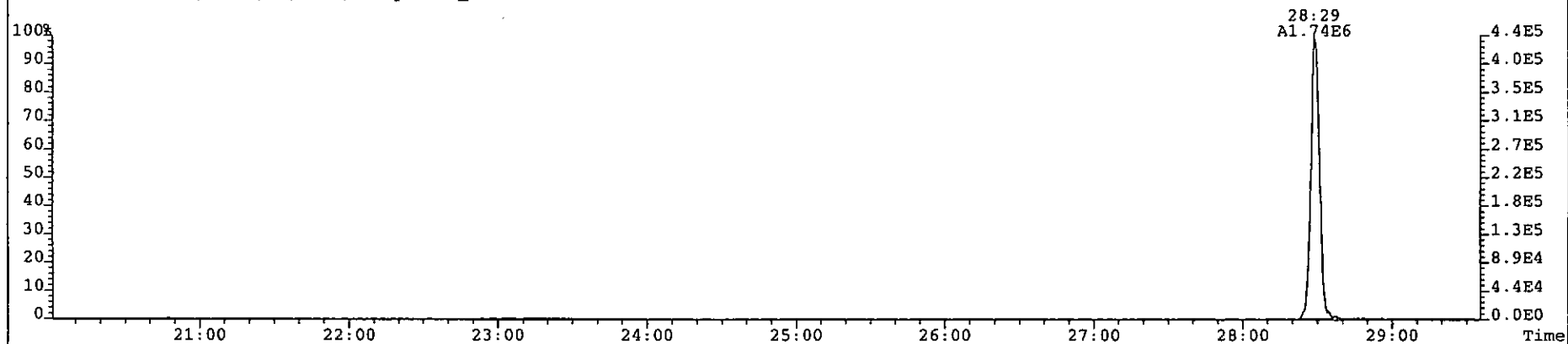
317.9389 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 252



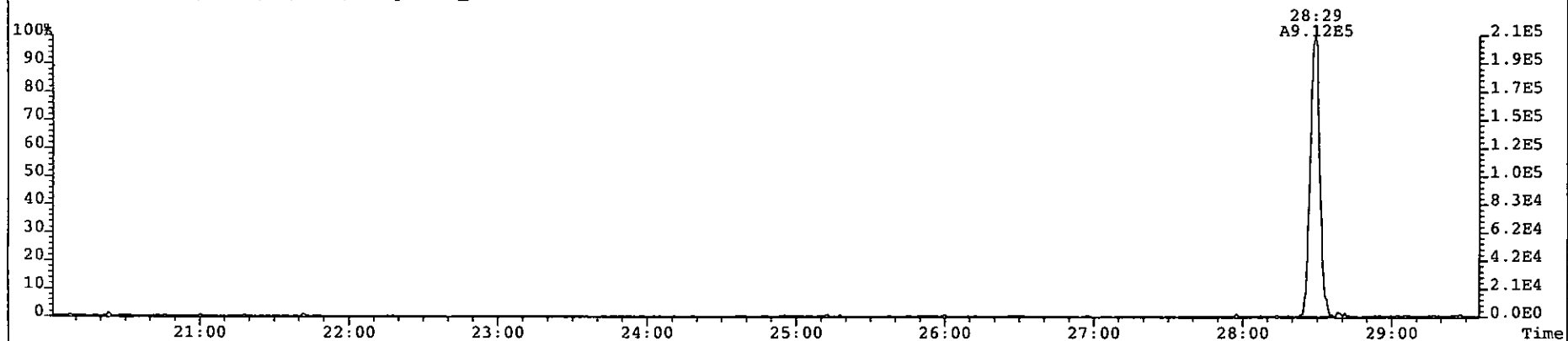
375.8364 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 183



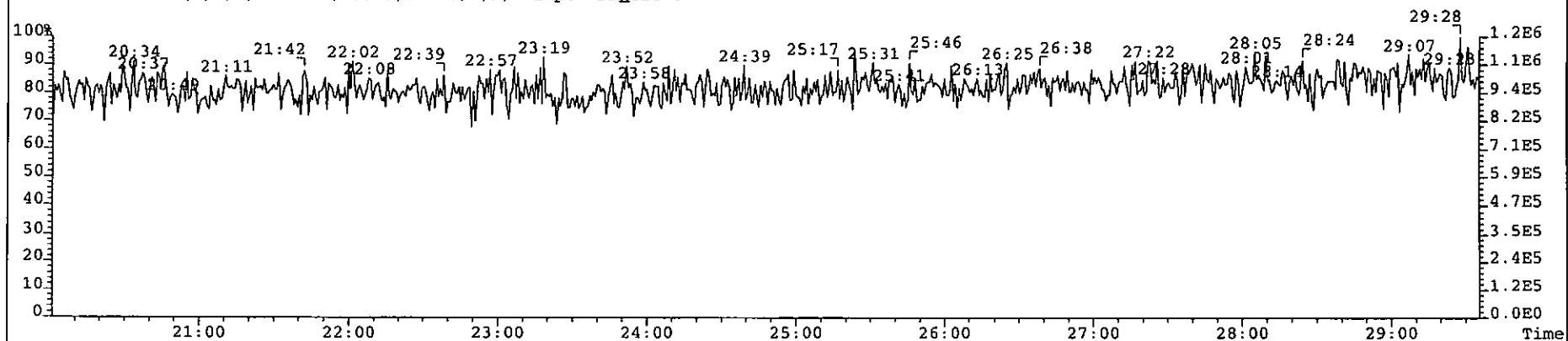
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
339.8597 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 183



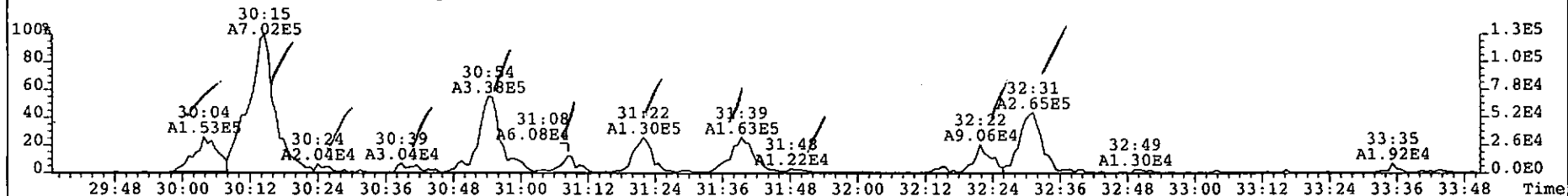
341.8568 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 203



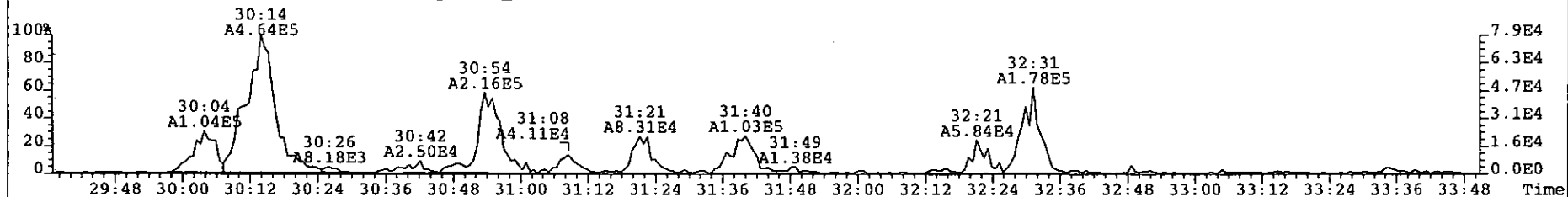
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



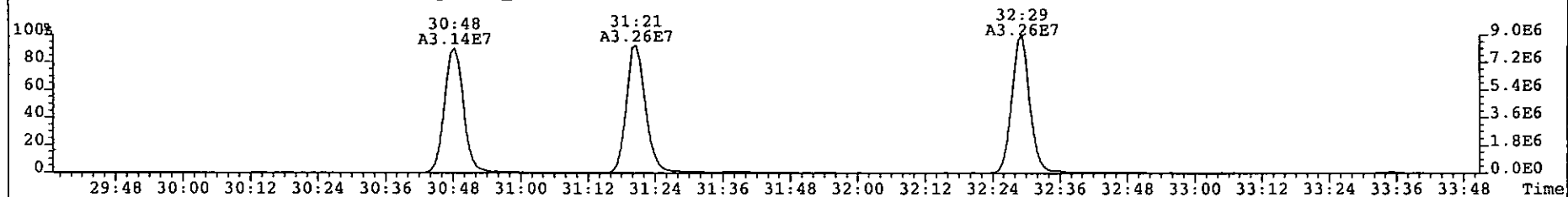
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 181



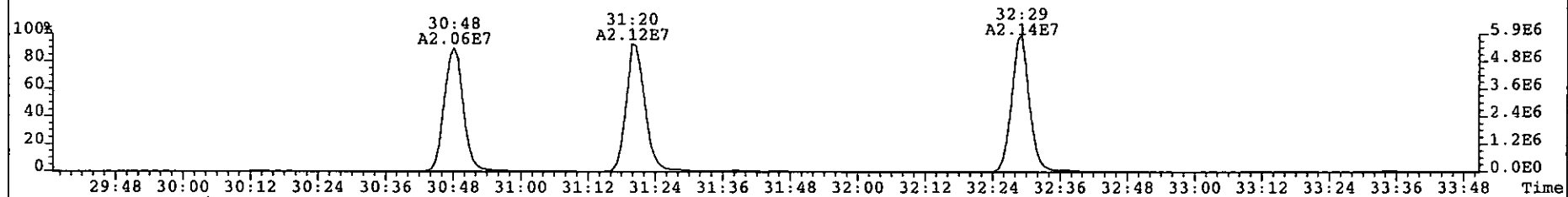
341.8568 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 186



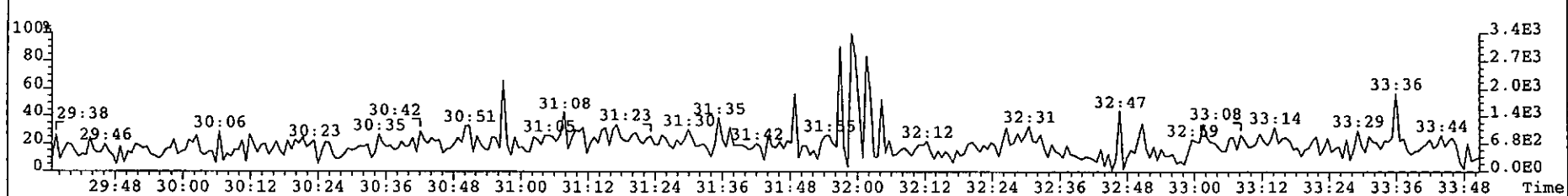
351.9000 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3587



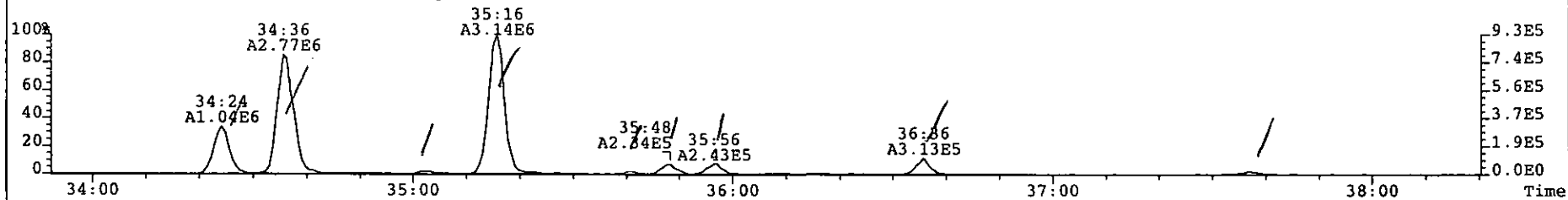
353.8970 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2051



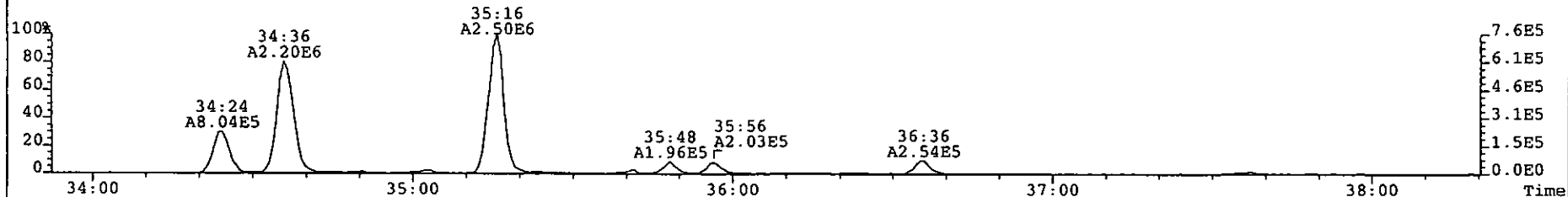
409.7974 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 198



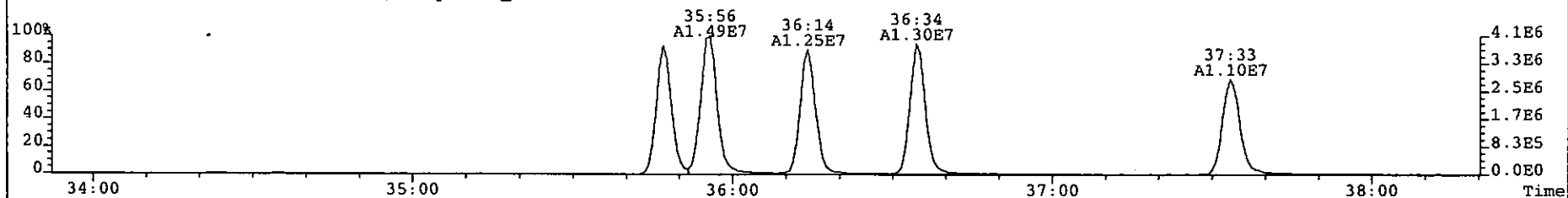
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 371



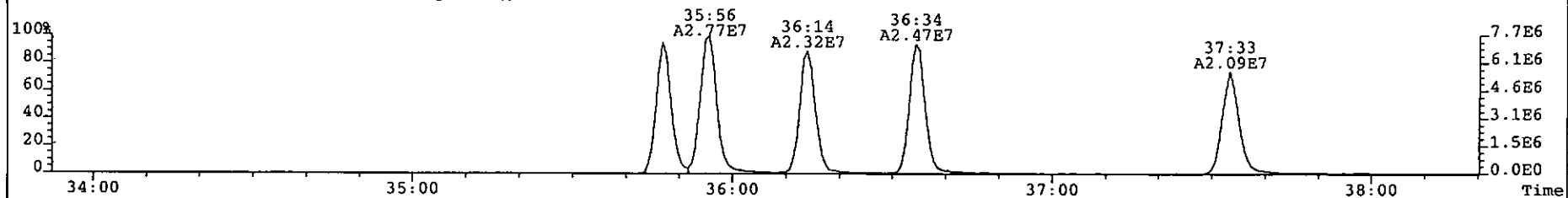
375.8178 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 364



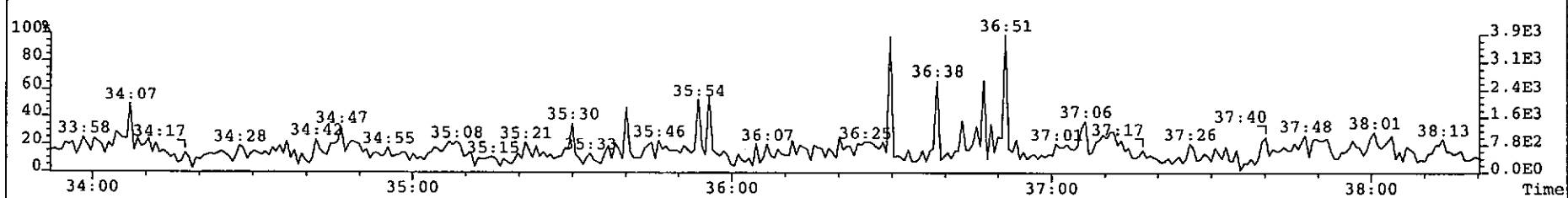
383.8639 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 453



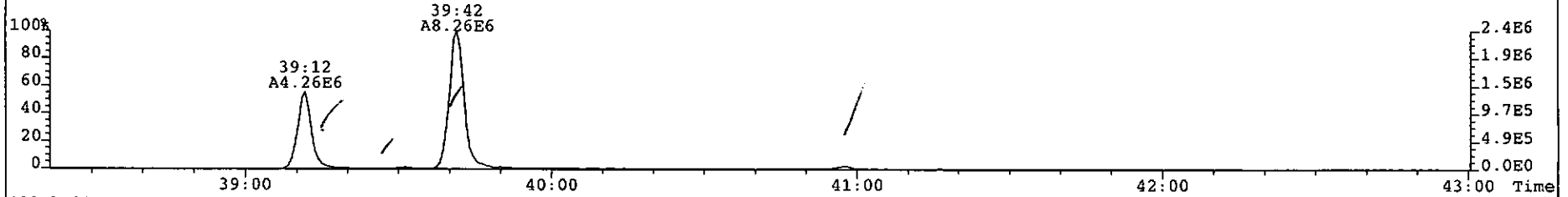
385.8610 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1570



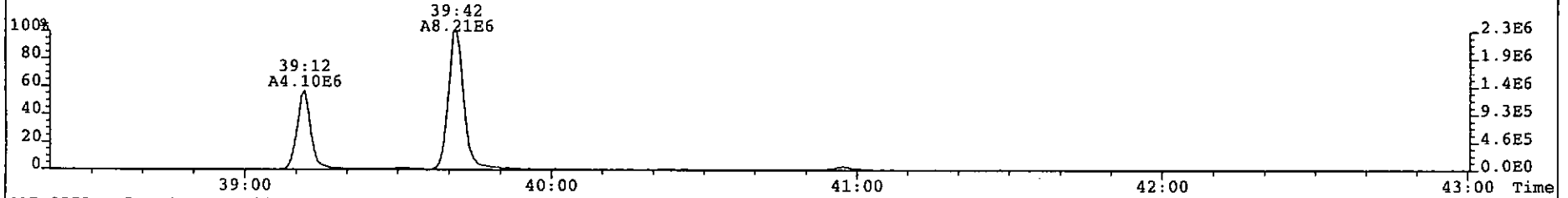
445.7555 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 187



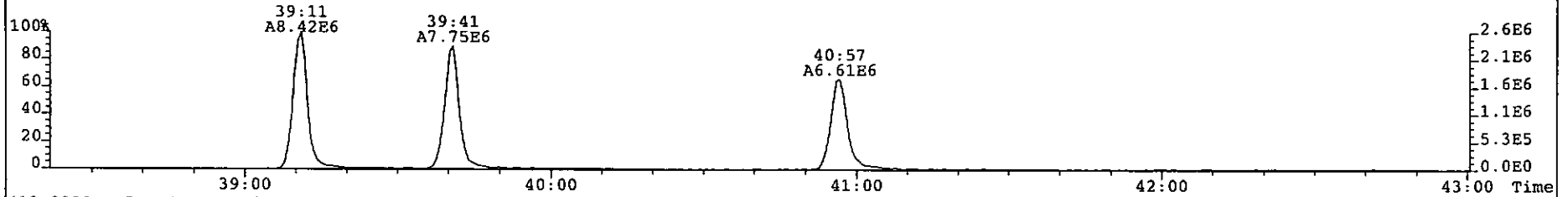
File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 831



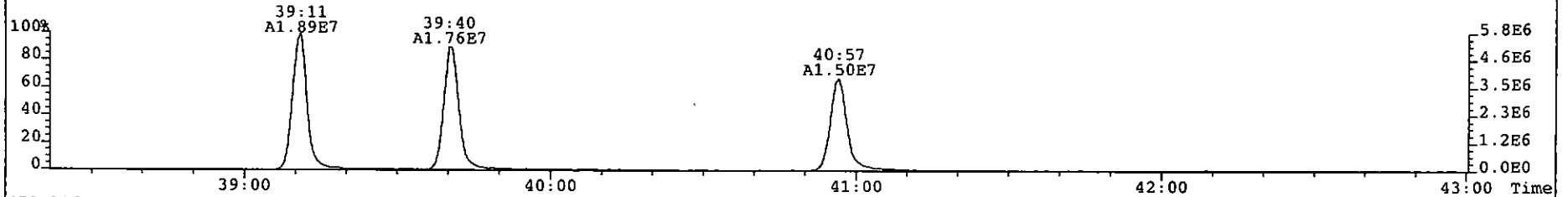
409.7788 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 620



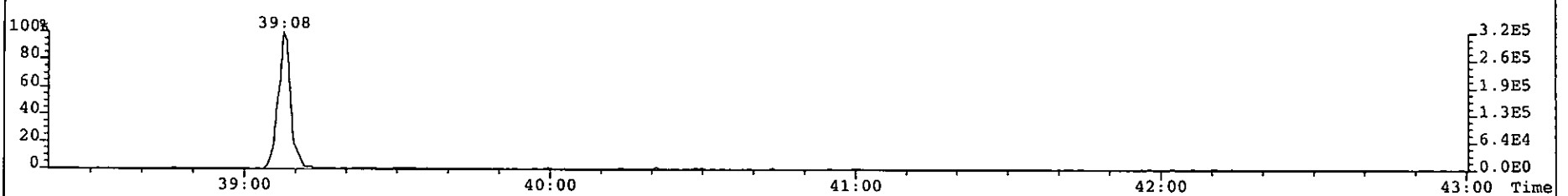
417.8253 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1528



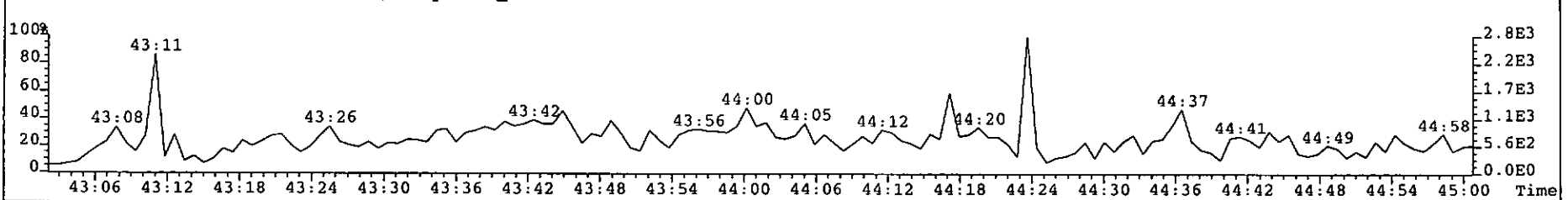
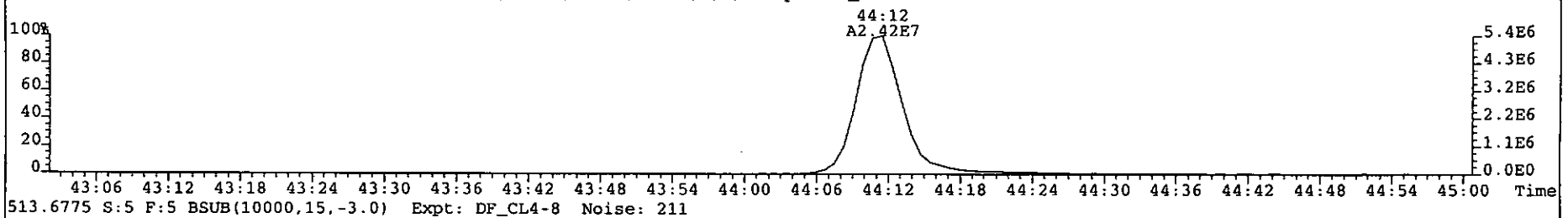
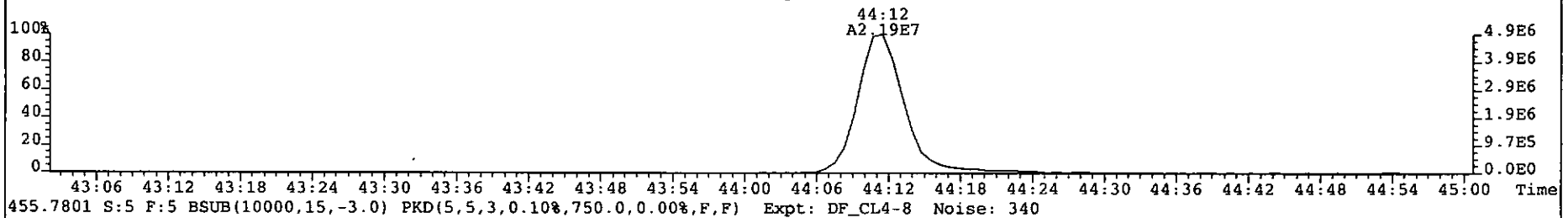
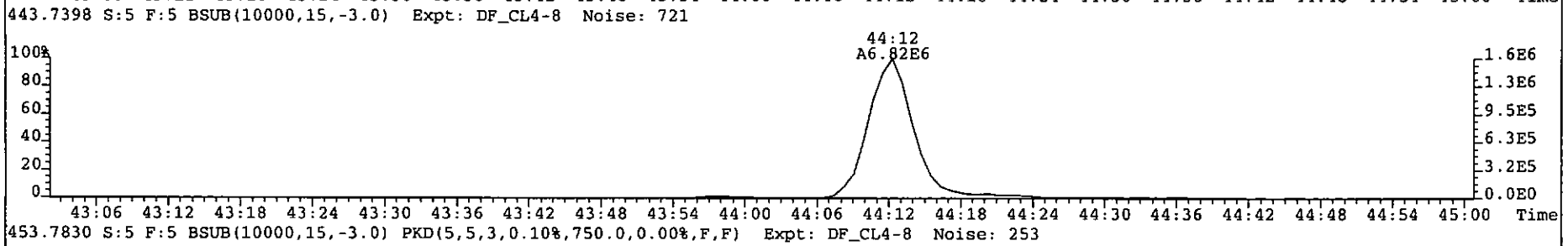
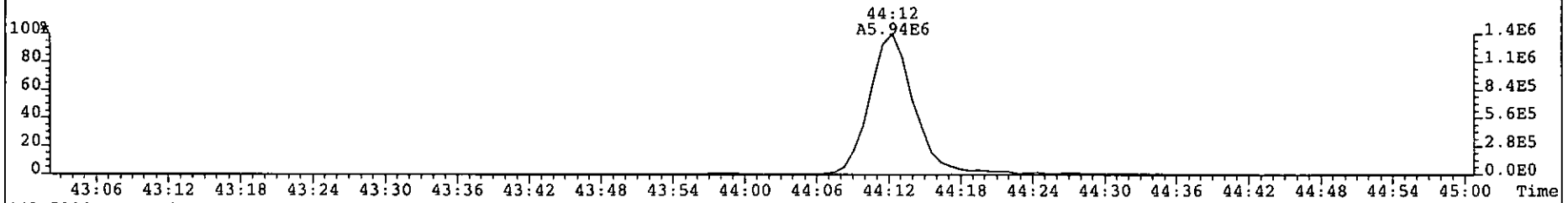
419.8220 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2704



479.7165 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 178



File: 090614P1 Acq: 14-JUN-2009 12:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1376_6875_001 BW-01-SS-090602 10.0g Vial# 48 File Text: AP DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 508




1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: BW-03-SS-090602 Filename: 090614P1 S: 6 Vial: 49 Acq: 14-JUN-09 13:14:38
 Lab ID: P1376_6875_002 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 10.26
 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	6.37e+04	0.62 n	27:20	1.08	0.315	1138	2.5	0.114	-
Ax	1,2,3,7,8-PeCDD	1.73e+05	1.61 y	32:51	1.00	1.07	882	2.5	0.128	-
Ax	1,2,3,4,7,8-HxCDD	1.96e+05	1.28 y	36:46	1.08	1.49	2125	2.5	0.305	-
Ax	1,2,3,6,7,8-HxCDD	1.07e+06	1.15 y	36:53	0.94	8.20	2125	2.5	0.338	-
Ax	1,2,3,7,8,9-HxCDD	5.18e+05	1.29 y	37:11	0.99	3.78	2125	2.5	0.340	-
Ax	1,2,3,4,6,7,8-HpCDD	1.69e+07	1.05 y	40:22	0.97	130	11865	2.5	1.72	-
Ax	OCDD	9.45e+07	0.92 y	43:58	1.06	1160	19499	2.5	5.09	-
Ax2	OCDD-a	5.68e+06	2.61 y	43:57	0.06	1170	3410	2.5	14.9	-
Ax	2,3,7,8-TCDF	2.93e+05	0.69 y	26:25	1.05	1.22	973	2.5	0.0811	-
Ax	1,2,3,7,8-PeCDF	1.13e+05	1.84 n	31:21	0.98	0.474	1059	2.5	0.102	-
Ax	2,3,4,7,8-PeCDF	2.48e+05	1.60 y	32:30	1.01	1.05	1059	2.5	0.0982	-
Ax	1,2,3,4,7,8-HxCDF	2.58e+05	1.28 y	35:48	1.22	1.26	1757	2.5	0.112	-
Ax	1,2,3,6,7,8-HxCDF	2.39e+05	1.21 y	35:56	1.15	1.09	1757	2.5	0.109	-
Ax	2,3,4,6,7,8-HxCDF	3.61e+05	1.24 y	36:35	1.13	1.76	1757	2.5	0.111	-
Ax	1,2,3,7,8,9-HxCDF	5.89e+04	1.84 n	37:36	1.12	0.336	1757	2.5	0.143	-
Ax	1,2,3,4,6,7,8-HpCDF	4.83e+06	1.00 y	39:11	1.37	27.9	3038	2.5	0.214	-
Ax	1,2,3,4,7,8,9-HpCDF	2.01e+05	1.12 y	40:57	1.32	1.43	3038	2.5	0.311	-
Ax	OCDF	6.72e+06	0.89 y	44:12	0.94	64.8	3537	2.5	0.725	-
Ax2	OCDF-a	4.18e+05	2.78 y	44:11	0.05	71.6	1647	2.5	6.00	-
ES	13C-2,3,7,8-TCDD	3.64e+07	0.84 y	27:18	0.99	174	1978	2.5	0.185	89.3
ES	13C-1,2,3,7,8-PeCDD	3.15e+07	1.63 y	32:50	0.83	179	8720	2.5	0.968	91.8
ES	13C-1,2,3,4,7,8-HxCDD	2.37e+07	1.28 y	36:45	1.08	153	11934	2.5	1.62	78.3
ES	13C-1,2,3,6,7,8-HxCDD	2.69e+07	1.27 y	36:52	1.23	154	11934	2.5	1.43	78.8
ES	13C-1,2,3,7,8,9-HxCDD	2.69e+07	1.29 y	37:10	1.21	155	11934	2.5	1.45	79.7
ES	13C-1,2,3,4,6,7,8-HpCDD	2.60e+07	1.07 y	40:21	0.98	185	10643	2.5	1.59	94.7
ES	13C-OCDD	3.00e+07	0.83 y	43:56	0.66	317	10249	2.5	2.28	81.4
ES	13C-2,3,7,8-TCDF	4.48e+07	0.84 y	26:23	0.96	153	1763	2.5	0.127	78.5
ES	13C-1,2,3,7,8-PeCDF	4.70e+07	1.55 y	31:20	0.85	180	9382	2.5	0.760	92.3
ES	13C-2,3,4,7,8-PeCDF	4.55e+07	1.54 y	32:28	0.88	168	9382	2.5	0.734	86.3
ES	13C-1,2,3,4,7,8-HxCDF	3.27e+07	0.53 y	35:47	1.47	155	15023	2.5	1.50	79.4
ES	13C-1,2,3,6,7,8-HxCDF	3.70e+07	0.53 y	35:55	1.78	145	15023	2.5	1.24	74.6
ES	13C-2,3,4,6,7,8-HxCDF	3.53e+07	0.54 y	36:35	1.61	153	15023	2.5	1.37	78.6
ES	13C-1,2,3,7,8,9-HxCDF	3.06e+07	0.53 y	37:33	1.40	153	15023	2.5	1.58	78.4
ES	13C-1,2,3,4,6,7,8-HpCDF	2.47e+07	0.44 y	39:11	1.16	149	17772	2.5	2.25	76.3
ES	13C-1,2,3,4,7,8,9-HpCDF	2.07e+07	0.44 y	40:57	0.92	157	17772	2.5	2.84	80.5
ES	13C-OCDF	4.30e+07	0.89 y	44:11	1.04	290	18388	2.5	2.60	74.3
CS	37Cl-2,3,7,8-TCDD	1.53e+07		27:20	0.99	73.6			0.970	94.4
CS	13C-1,2,3,4,7-PeCDD	2.75e+07	1.64 y	32:19	0.77	169	8720	2.5	1.05	86.9
CS	13C-1,2,3,4,6-PeCDF	4.65e+07	1.54 y	30:47	0.79	191	9382	2.5	0.817	98.0
CS	13C-1,2,3,4,6,9-HxCDF	3.42e+07	0.54 y	36:14	1.41	169	15023	2.5	1.56	86.7
CS	13C-1,2,3,4,6,8,9-HpCDF	2.47e+07	0.44 y	39:40	0.91	190	17772	2.5	2.87	97.4
NA	n/a	*	* n	NotF»	Div0	*	1010	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	4.11e+07	0.83 y	26:37	-	11.4	1978	2.5	-	-
JS	13C-1,2,3,4-TCDF	5.97e+07	0.82 y	24:58	-	10.5	1763	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.40e+07	1.32 y	37:04	-	6.25	719	2.5	-	-

Analys: 
 Date: 19 June 09
 HS

SS	37Cl-2,3,7,8-TCDD	1.53e+07		27:20	1.00	82.0			1.12	105
SS	13C-1,2,3,4,7-PeCDD	2.75e+07	1.64 y	32:19	0.93	183	8720	2.5	1.36	94.1
SS	13C-1,2,3,4,6-PeCDF	4.65e+07	1.54 y	30:47	0.94	206	9382	2.5	0.946	106
SS	13C-1,2,3,4,6,9-HxCDF	3.42e+07	0.54 y	36:14	0.80	225	15023	2.5	1.33	115
SS	13C-1,2,3,4,6,8,9-HpCDF	2.47e+07	0.44 y	39:40	0.79	247	17772	2.5	2.16	127
SBS	2,4,6,8-TCDF	4.61e+05	0.77 y	22:30	1.05	1.92	973	2.5	0.0811	-
Ay	1,3,6,8-TCDD	6.18e+05	0.75 y	23:28	1.08	3.05	1138	2.5	0.114	-
Ay	1,2,3,9-TCDD	1.23e+04	2.17 y	27:10	1.08	0.0609	1138	2.5	0.114	-
Ay	1,2,8,9-TCDD	*	* NotF>>		1.08	*	1138	2.5	0.114	-
Ay	1,2,4,7,9-PeCDD	5.52e+05	1.38 y	30:17	1.00	3.42	882	2.5	0.128	-
Ay	1,2,3,8,9-PeCDD	5.92e+04	1.68 y	33:18	1.00	0.367	882	2.5	0.128	-
Ay	1,2,4,6,7,9-HxCDD	2.38e+06	1.24 y	35:03	1.00	17.9	2125	2.5	0.328	-
Ay	1,2,3,4,6,7,9-HpCDD	2.21e+07	1.02 y	39:31	0.97	170	11865	2.5	1.72	-
Ay	1,3,6,8-TCDF	1.35e+05	0.82 y	21:16	1.05	0.559	973	2.5	0.0811	-
Ay	2,3,4,8-TCDF	7.50e+04	0.83 y	26:17	1.05	0.312	973	2.5	0.0811	-
Ay	1,2,8,9-TCDF	1.23e+05	0.76 y	28:29	1.05	0.513	973	2.5	0.0811	-
Ay	1,3,4,6,8-PeCDF	1.35e+06	1.76 y	28:28	1.05	5.60	1213	2.5	0.101	-
Ay	1,2,3,8,9-PeCDF	*	* NotF>>		1.00	*	1059	2.5	0.0999	-
Ay	1,2,3,4,6,8-HxCDF	8.22e+05	1.18 y	34:24	1.15	4.10	1757	2.5	0.118	-
Tot	Total Tetra-Dioxins	2.30e+06	0.75 y	23:28	1.08	11.4	1138	2.5	0.114	-
Tot	Total Penta-Dioxins	2.03e+06	1.38 y	30:17	1.00	12.6	882	2.5	0.128	-
Tot	Total Hexa-Dioxins	8.88e+06	1.24 y	35:03	1.00	66.8	2125	2.5	0.328	-
Tot	Total Hepta-Dioxins	3.89e+07	1.02 y	39:31	0.97	300	11865	2.5	1.72	-
Tot	Total Tetra-Furans	3.19e+06	0.82 y	21:16	1.05	13.3	973	2.5	0.0811	-
Tot	Total Penta-Furans	1.89e+06	1.68 y	30:03	1.00	7.97	1059	2.5	0.0999	-
Tot	Total Hexa-Furans	7.29e+06	1.18 y	34:24	1.15	36.2	1757	2.5	0.118	-
Tot	Total Hepta-Furans	1.45e+07	1.00 y	39:11	1.35	89.6	3038	2.5	0.257	-
Tot	TCDD EMPC	2.55e+06	0.75 y	23:28	1.08	12.6	1138	2.5	0.114	-
Tot	PeCDD EMPC	2.21e+06	1.38 y	30:17	1.00	13.7	882	2.5	0.128	-
Tot	HxCDD EMPC	9.02e+06	1.24 y	35:03	1.00	67.9	2125	2.5	0.328	-
Tot	HpCDD EMPC	3.89e+07	1.02 y	39:31	0.97	300	11865	2.5	1.72	-
Tot	TCDF EMPC	3.52e+06	0.82 y	21:16	1.05	14.7	973	2.5	0.0811	-
Tot	PeCDF EMPC	2.12e+06	1.68 y	30:03	1.00	8.94	1059	2.5	0.0999	-
Tot	HxCDF EMPC	7.50e+06	1.18 y	34:24	1.15	37.3	1757	2.5	0.118	-
Tot	HpCDF EMPC	1.46e+07	1.00 y	39:11	1.35	90.3	3038	2.5	0.257	-
AS	13C-1,3,6,8-TCDD	3.03e+07	0.82 y	23:27	1.09	132	1978	2.5	0.169	67.9 ✓
AS	13C-1,3,6,8-TCDF	6.04e+07	0.82 y	21:15	1.09	181	1763	2.5	0.112	93.0
DPE	HxCDFE	*		NotF>>	-	*	-	-	-	-
DPE	HpCDFE	*		NotF>>	-	*	-	-	-	-
DPE	OCDFE	*		NotF>>	-	*	-	-	-	-
DPE	NCDFE	*		NotF>>	-	*	-	-	-	-
DPE	DCDFE	*		NotF>>	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF>>	-	*	-	-	-	-

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 13 Checkcode: 0519
 File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

Total Conc.: 12.584 Unnamed Conc.: 9.157 Homolog count: 13

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:28	2.641e+05	n	3.537e+05	n	0.75 y	6.178e+05	6.178e+05	6.19e+01	y	3.05 1,3,6,8-TCDD
23:51	1.816e+05	n	2.408e+05	n	0.75 y	4.224e+05	4.224e+05	4.40e+01	y	2.09
24:18	2.091e+04	n	2.112e+04	n	0.99 n	4.203e+04	3.738e+04	4.18e+00	y	0.185
25:08	3.396e+05	n	4.080e+05	n	0.83 y	7.476e+05	7.476e+05	8.61e+01	y	3.69
25:24	3.185e+04	n	4.383e+04	n	0.73 y	7.568e+04	7.568e+04	1.12e+01	y	0.374
25:35	4.169e+04	n	5.529e+04	n	0.75 y	9.698e+04	9.698e+04	1.30e+01	y	0.479
25:47	1.623e+04	n	1.975e+04	n	0.82 y	3.597e+04	3.597e+04	5.20e+00	y	0.178
26:13	1.966e+04	n	2.281e+04	n	0.86 y	4.247e+04	4.247e+04	5.40e+00	y	0.210
26:38	7.246e+04	n	6.328e+04	n	1.15 n	1.357e+05	1.120e+05	1.32e+01	y	0.553
27:02	1.131e+05	y	1.462e+05	y	0.77 y	2.593e+05	2.593e+05	2.76e+01	y	1.28
27:10	1.515e+04	y	6.971e+03	y	2.17 n	2.212e+04	1.234e+04	2.11e+00	n	0.0609 1,2,3,9-TCDD
27:20	2.773e+04	n	4.466e+04	n	0.62 n	7.239e+04	6.373e+04	1.32e+01	y	0.315 2,3,7,8-TCDD
27:40	1.039e+04	y	1.809e+04	n	0.57 n	2.848e+04	2.389e+04	5.05e+00	y	0.118

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 13 Checkcode: 0519
 File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

Total Conc.: 13.709 Unnamed Conc.: 8.847 Homolog count: 10

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:17	3.195e+05	n	2.323e+05	n	1.38 y	5.519e+05	5.519e+05	5.65e+01	y	3.42 1,2,4,7,9-PeCDD
30:50	8.702e+04	n	5.768e+04	n	1.51 y	1.447e+05	1.447e+05	2.26e+01	y	0.897
31:23	2.600e+05	n	1.547e+05	n	1.68 y	4.148e+05	4.148e+05	4.83e+01	y	2.57
31:35	8.602e+04	y	6.092e+04	y	1.41 y	1.469e+05	1.469e+05	2.31e+01	y	0.911
31:41	1.959e+05	y	1.211e+05	y	1.62 y	3.170e+05	3.170e+05	4.25e+01	y	1.97
31:57	1.126e+05	n	8.743e+04	n	1.29 n	2.000e+05	1.852e+05	1.69e+01	y	1.15
32:20	1.016e+05	n	6.112e+04	n	1.66 y	1.627e+05	1.627e+05	2.28e+01	y	1.01
32:51	1.068e+05	y	6.634e+04	y	1.61 y	1.731e+05	1.731e+05	1.95e+01	y	1.07 1,2,3,7,8-PeCDD
32:57	3.187e+04	y	2.350e+04	y	1.36 y	5.536e+04	5.536e+04	6.66e+00	y	0.343
33:18	3.706e+04	y	2.210e+04	n	1.68 y	5.916e+04	5.916e+04	7.10e+00	y	0.367 1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 13 Checkcode: 0519
 File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

Total Conc.: 67.880 Unnamed Conc.: 36.527 Homolog count: 8

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:03	1.317e+06	n	1.063e+06	n	1.24 y	2.380e+06	2.380e+06	1.61e+02	y	17.9 1,2,4,6,7,9-HxCDD

35:43	5.094e+05	n	4.346e+05	n	1.17	y	9.440e+05	9.440e+05	5.64e+01	y	7.09
36:00	1.922e+06	n	1.561e+06	n	1.23	y	3.483e+06	3.483e+06	1.77e+02	y	26.2
36:09	1.625e+05	y	1.273e+05	y	1.28	y	2.898e+05	2.898e+05	1.53e+01	y	2.18
36:46	1.103e+05	y	8.604e+04	y	1.28	y	1.963e+05	1.963e+05	1.17e+01	y	1.49 1,2,3,4,7,8-HxCDD
36:53	5.716e+05	y	4.977e+05	y	1.15	y	1.069e+06	1.069e+06	6.88e+01	y	8.20 1,2,3,6,7,8-HxCDD
37:04	9.735e+04	y	6.417e+04	y	1.52	n	1.615e+05	1.437e+05	9.56e+00	y	1.08
37:11	2.919e+05	y	2.261e+05	y	1.29	y	5.180e+05	5.180e+05	2.55e+01	y	3.78 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDD EMPC Function: 4 Run #: 13 Checkcode: 0519
 File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

Total Conc.: 300.03 Unnamed Conc.: * Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:31	1.116e+07	n	1.093e+07	n	1.02	y	2.209e+07	2.209e+07	2.65e+02	y	170 1,2,3,4,6,7,9-HpCDD
40:22	8.633e+06	n	8.219e+06	n	1.05	y	1.685e+07	1.685e+07	1.87e+02	y	130 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: TCDF EMPC Function: 1 Run #: 13 Checkcode: 0519
 File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

Total Conc.: 14.653 Unnamed Conc.: 10.133 Homolog count: 19

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
21:16	6.074e+04	n	7.381e+04	n	0.82	y	1.346e+05	1.346e+05	1.89e+01	y	0.559 1,3,6,8-TCDF
21:50	4.095e+04	n	5.502e+04	n	0.74	y	9.597e+04	9.597e+04	1.21e+01	y	0.399
22:30	2.004e+05	n	2.607e+05	n	0.77	y	4.611e+05	4.611e+05	5.04e+01	y	1.92 2,4,6,8-TCDF
23:01	1.614e+05	y	2.312e+05	y	0.70	y	3.926e+05	3.926e+05	3.09e+01	y	1.63
23:26	1.536e+05	y	2.028e+05	y	0.76	y	3.564e+05	3.564e+05	2.57e+01	y	1.48
23:53	6.933e+04	n	8.720e+04	n	0.80	y	1.565e+05	1.565e+05	2.04e+01	y	0.651
24:01	2.815e+04	n	4.544e+04	n	0.62	n	7.359e+04	6.471e+04	9.39e+00	y	0.269
24:13	4.025e+04	n	5.837e+04	n	0.69	y	9.862e+04	9.862e+04	1.38e+01	y	0.410
24:36	2.014e+04	n	3.274e+04	n	0.62	n	5.288e+04	4.630e+04	7.21e+00	y	0.193
24:44	5.602e+04	n	8.091e+04	n	0.69	y	1.369e+05	1.369e+05	1.74e+01	y	0.569
24:56	1.460e+05	y	1.961e+05	y	0.74	y	3.422e+05	3.422e+05	2.74e+01	y	1.42
25:29	9.121e+04	n	1.155e+05	n	0.79	y	2.067e+05	2.067e+05	3.15e+01	y	0.860
25:46	2.580e+04	n	4.677e+04	n	0.55	n	7.257e+04	5.931e+04	1.06e+01	y	0.247
25:57	3.124e+04	n	5.275e+04	n	0.59	n	8.399e+04	7.182e+04	9.56e+00	y	0.299
26:10	4.058e+04	y	7.221e+04	n	0.56	n	1.128e+05	9.329e+04	1.85e+01	y	0.388
26:17	3.411e+04	y	4.089e+04	n	0.83	y	7.501e+04	7.501e+04	1.05e+01	y	0.312 2,3,4,8-TCDF
26:25	1.200e+05	y	1.730e+05	n	0.69	y	2.930e+05	2.930e+05	4.99e+01	y	1.22 2,3,7,8-TCDF
26:48	1.332e+05	n	1.824e+05	n	0.73	y	3.155e+05	3.155e+05	3.91e+01	y	1.31
28:29	5.325e+04	n	7.003e+04	n	0.76	y	1.233e+05	1.233e+05	1.95e+01	y	0.513 1,2,8,9-TCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: PeCDF EMPC Function: 2 Run #: 13 Checkcode: 0519
 File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

Total Conc.: 8.9406 Unnamed Conc.: 7.419 Homolog count: 10

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:09	1.360e+05	y	8.088e+04	y	1.68	y	2.169e+05	2.169e+05	1.92e+01	y	0.915	
30:13	4.442e+05	n	3.057e+05	y	1.45	y	7.499e+05	7.499e+05	4.71e+01	y	3.16	
30:25	1.157e+04	y	1.133e+04	y	1.02	n	2.290e+04	1.904e+04	4.68e+00	y	0.0803	
30:39	2.859e+04	n	2.403e+04	y	1.19	n	5.263e+04	4.704e+04	4.60e+00	y	0.198	
30:54	2.194e+05	n	1.335e+05	y	1.64	y	3.529e+05	3.529e+05	2.64e+01	y	1.49	
31:08	4.110e+04	n	2.032e+04	y	2.02	n	6.143e+04	5.182e+04	6.67e+00	y	0.219	
31:21	8.111e+04	n	4.414e+04	y	1.84	n	1.252e+05	1.125e+05	1.41e+01	y	0.474	1,2,3,7,8-PeCDF
31:39	1.175e+05	n	7.331e+04	n	1.60	y	1.908e+05	1.908e+05	1.36e+01	y	0.804	
32:22	7.730e+04	n	5.363e+04	y	1.44	y	1.309e+05	1.309e+05	1.76e+01	y	0.552	
32:30	1.526e+05	y	9.514e+04	y	1.60	y	2.478e+05	2.478e+05	2.10e+01	y	1.05	2,3,4,7,8-PeCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HxCDF EMPC Function: 3 Run #: 13 Checkcode: 0519
File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

Total Conc.: 37.270 Unnamed Conc.: 28.719 Homolog count: 9

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:24	4.449e+05	n	3.766e+05	n	1.18	y	8.215e+05	8.215e+05	6.47e+01	y	4.10	1,2,3,4,6,8-HxCDF
34:36	1.496e+06	n	1.207e+06	n	1.24	y	2.703e+06	2.703e+06	2.05e+02	y	13.5	
35:02	4.792e+04	n	3.174e+04	n	1.51	n	7.966e+04	7.110e+04	4.68e+00	y	0.354	
35:15	1.605e+06	n	1.300e+06	n	1.23	y	2.905e+06	2.905e+06	2.16e+02	y	14.5	
35:40	4.504e+04	n	4.729e+04	n	0.95	n	9.233e+04	8.136e+04	8.30e+00	y	0.406	
35:48	1.446e+05	n	1.133e+05	n	1.28	y	2.579e+05	2.579e+05	1.92e+01	y	1.26	1,2,3,4,7,8-HxCDF
35:56	1.306e+05	n	1.083e+05	n	1.21	y	2.388e+05	2.388e+05	1.85e+01	y	1.09	1,2,3,6,7,8-HxCDF
36:35	1.999e+05	n	1.608e+05	n	1.24	y	3.607e+05	3.607e+05	2.73e+01	y	1.76	2,3,4,6,7,8-HxCDF
37:36	4.826e+04	n	2.628e+04	n	1.84	n	7.454e+04	5.888e+04	4.29e+00	y	0.336	1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]												

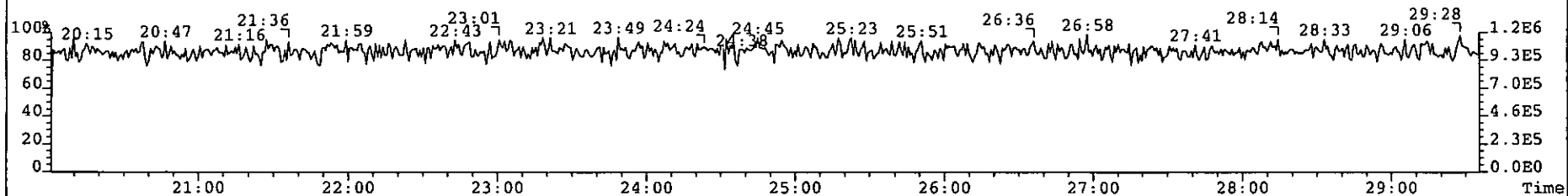
Totals class: HpCDF EMPC Function: 4 Run #: 13 Checkcode: 0519
File Name: 090614P1 Sample #: 6 Sample text: P1376_6875_002 BW-03-SS-090602 10.26g

Acquired: 14-JUN-09 13:14:38 Processed: 15-JUN-09 09:15:11

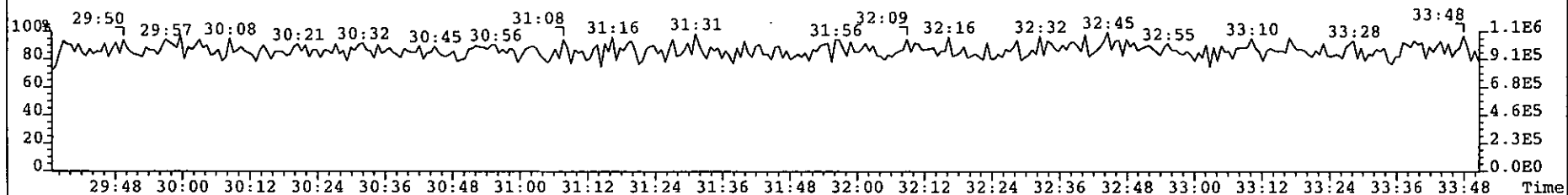
Total Conc.: 90.292 Unnamed Conc.: 60.951 Homolog count: 4

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:11	2.417e+06	n	2.411e+06	n	1.00	y	4.827e+06	4.827e+06	2.26e+02	y	27.9	1,2,3,4,6,7,8-HpCDF
39:31	5.763e+04	n	7.049e+04	n	0.82	n	1.281e+05	1.130e+05	6.47e+00	y	0.721	
39:41	4.779e+06	n	4.658e+06	n	1.03	y	9.437e+06	9.437e+06	4.47e+02	y	60.2	
40:57	1.061e+05	n	9.458e+04	n	1.12	y	2.007e+05	2.007e+05	9.67e+00	y	1.43	1,2,3,4,7,8,9-HpCDF

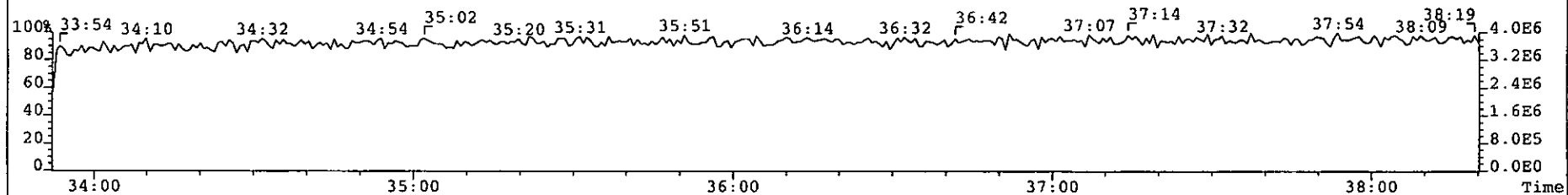
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



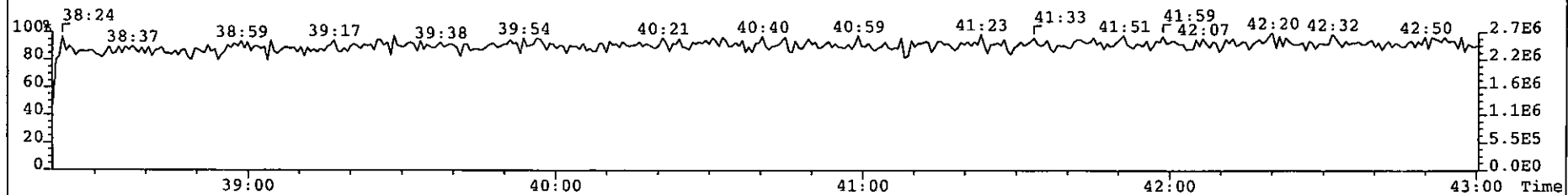
366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



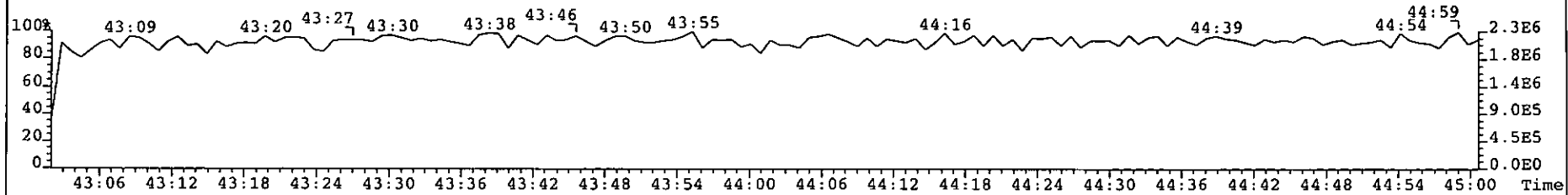
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



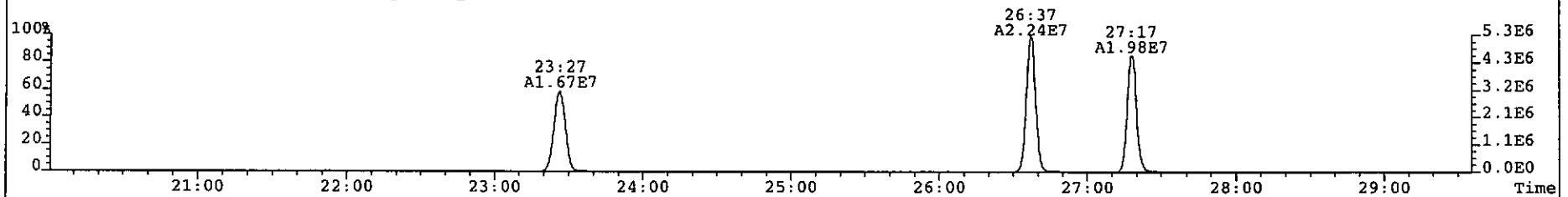
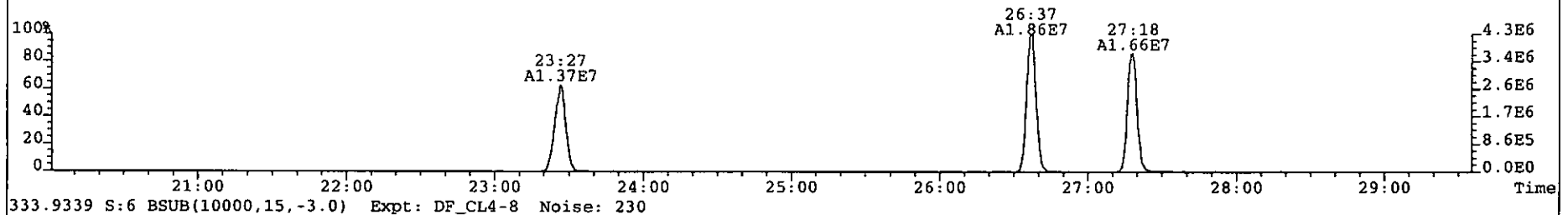
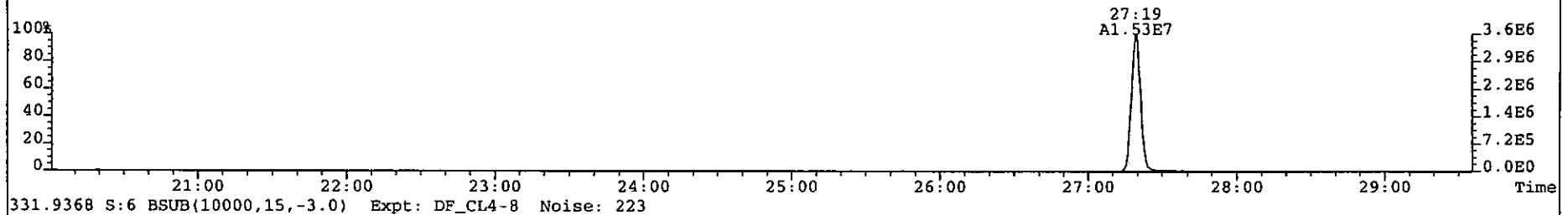
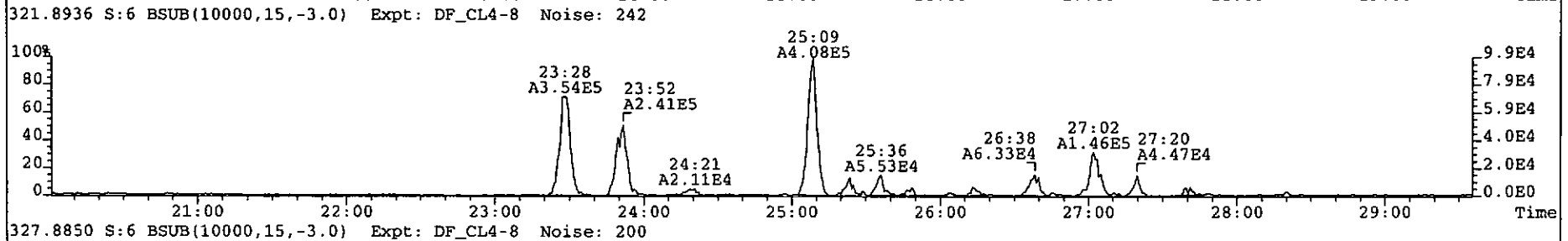
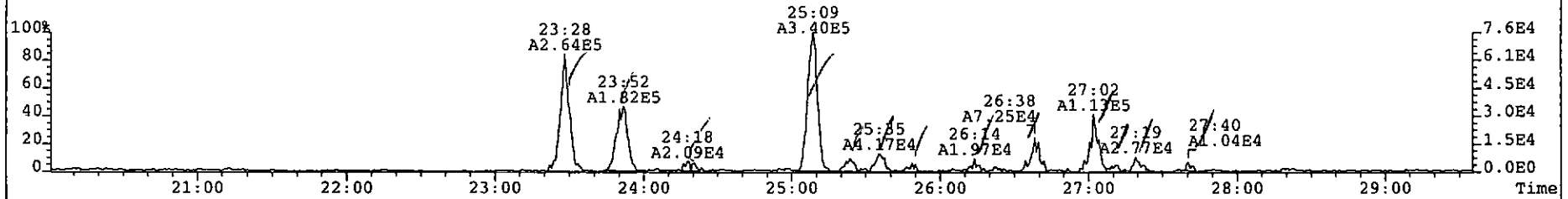
430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



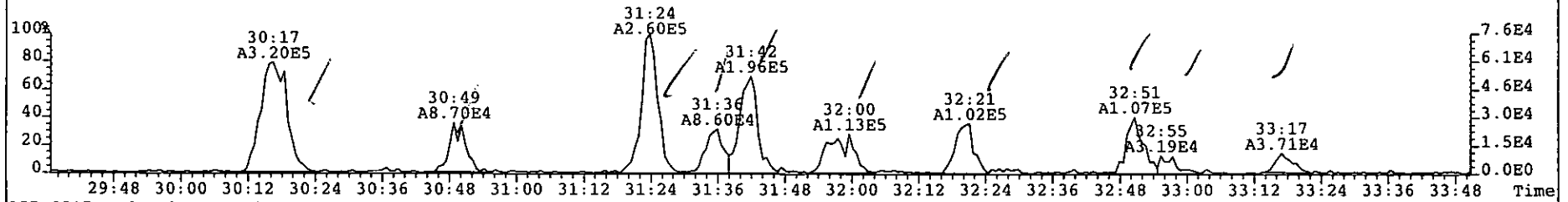
454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



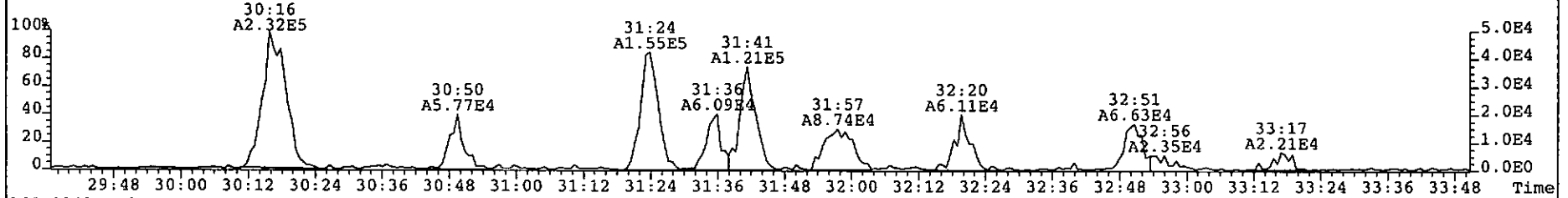
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
319.8965 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 256



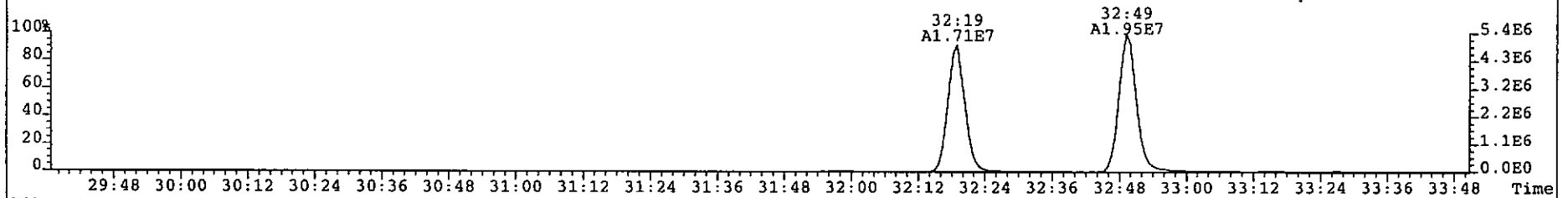
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DBS
355.8546 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 255



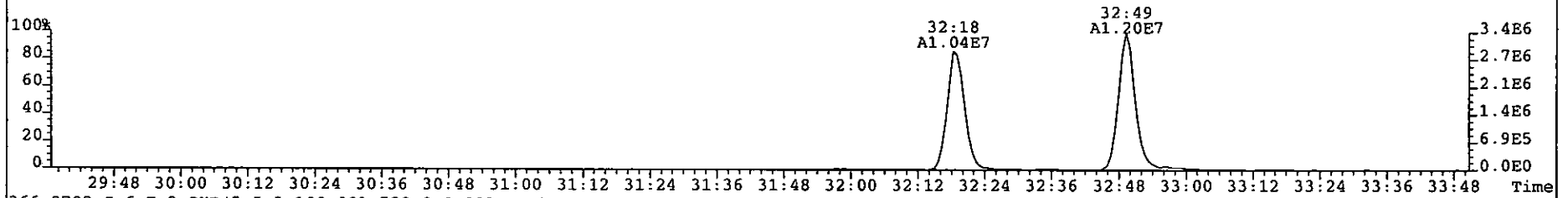
357.8517 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 200



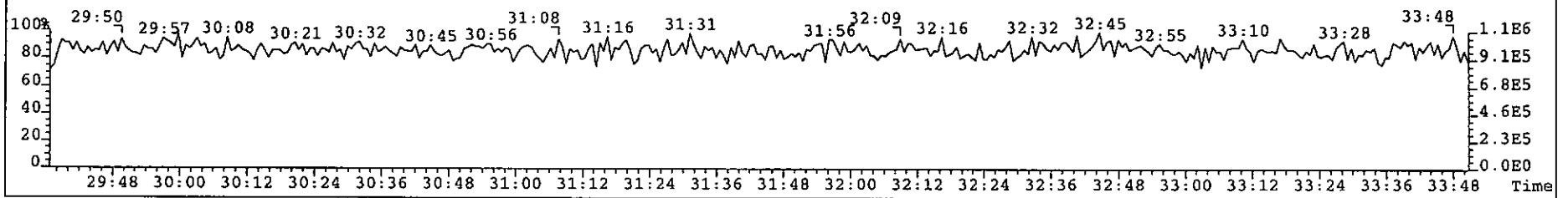
367.8949 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 166



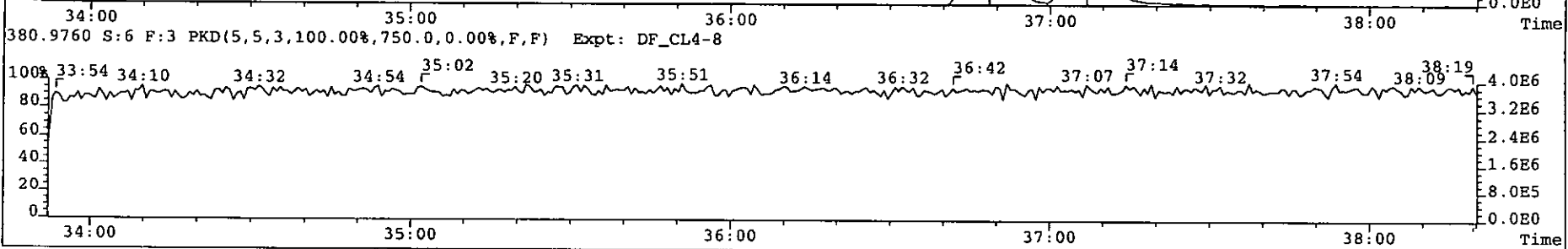
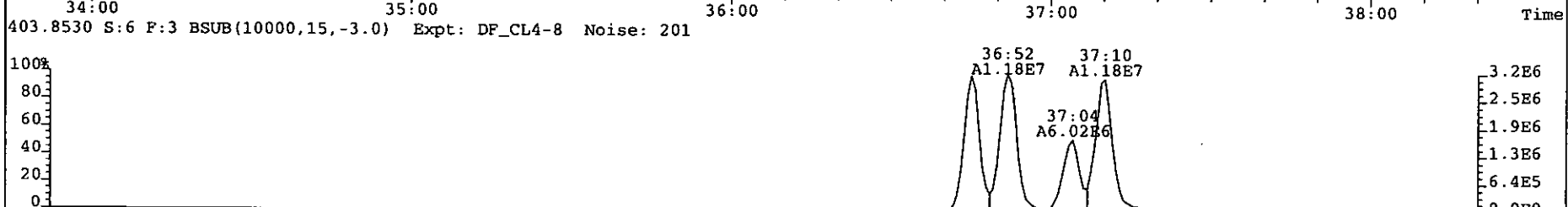
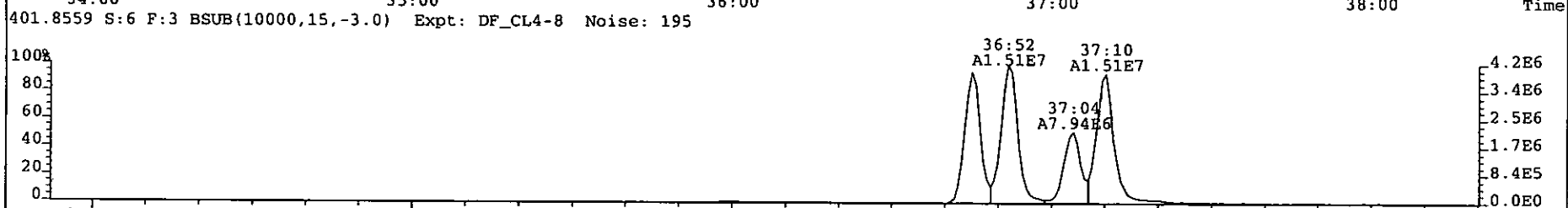
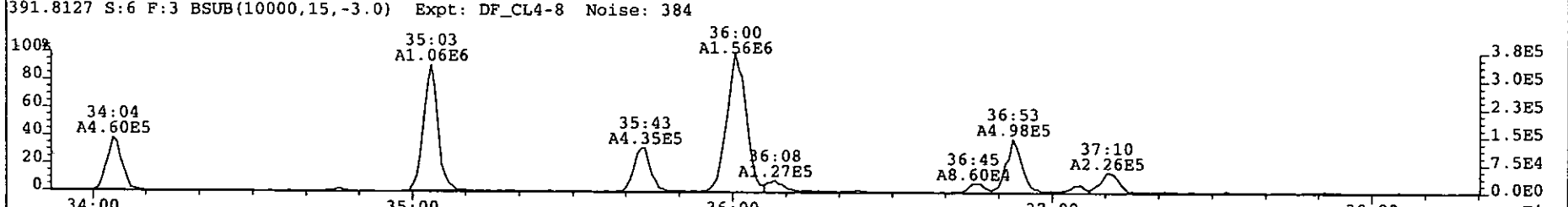
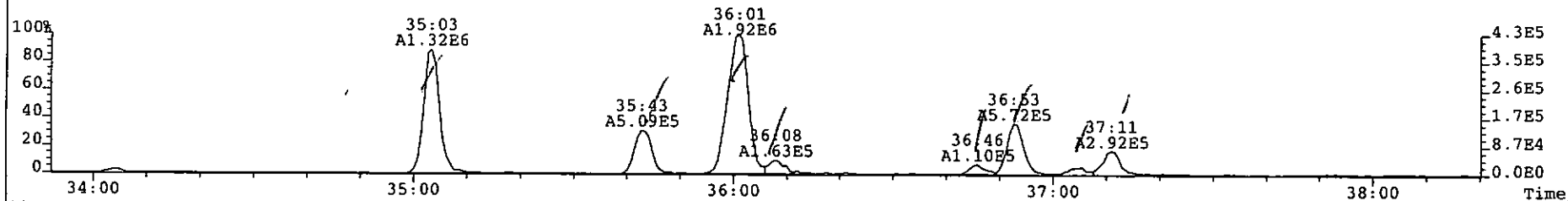
369.8919 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 180



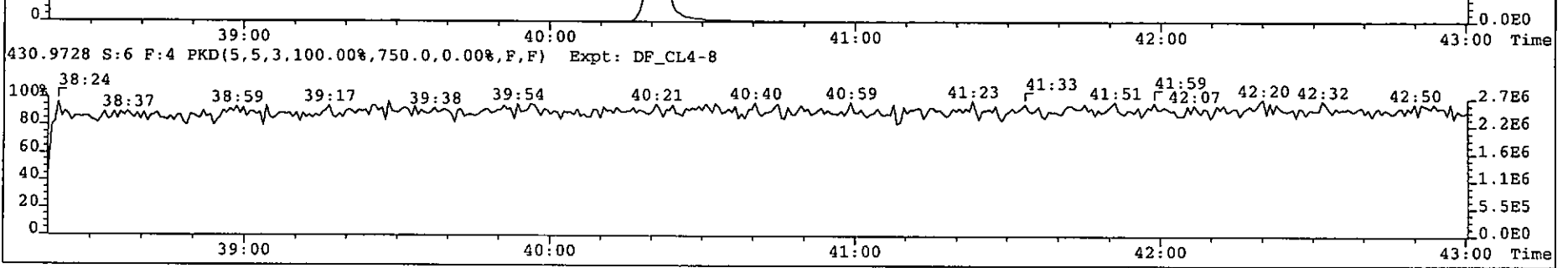
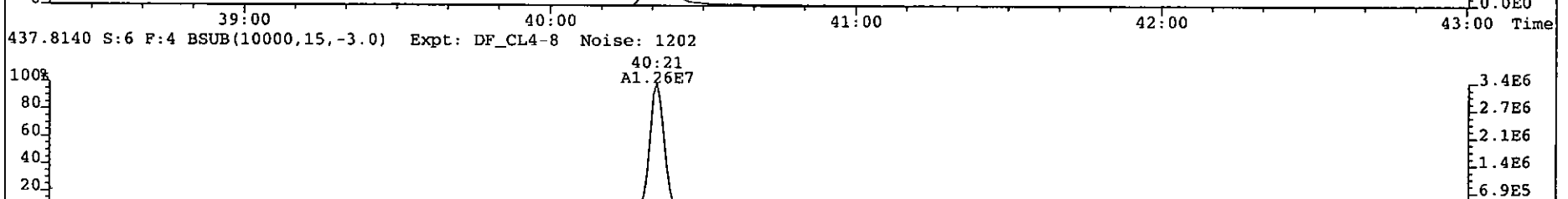
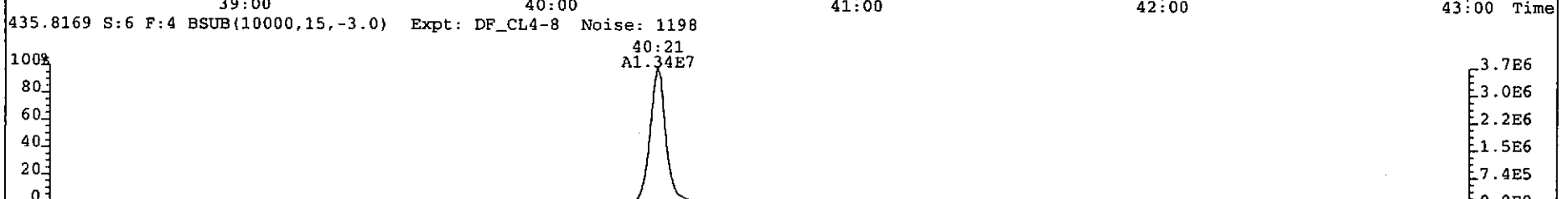
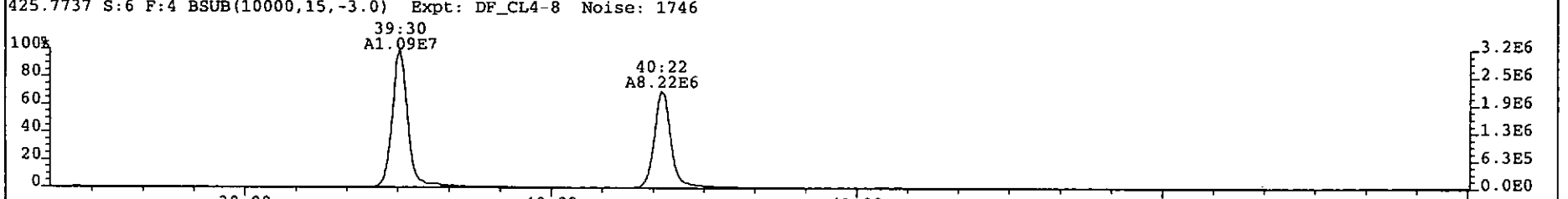
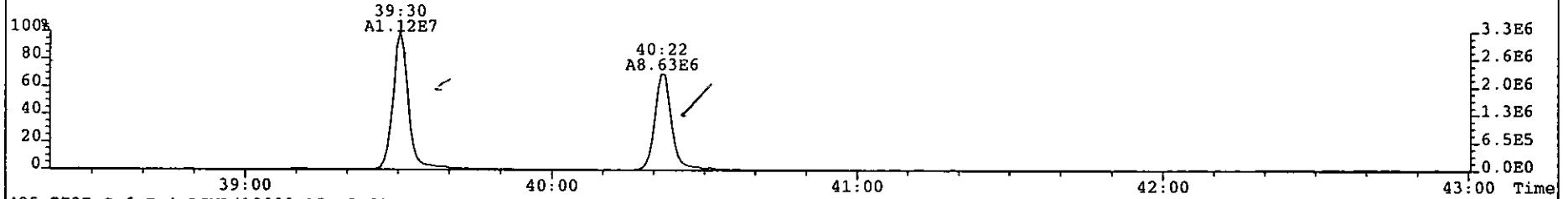
366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



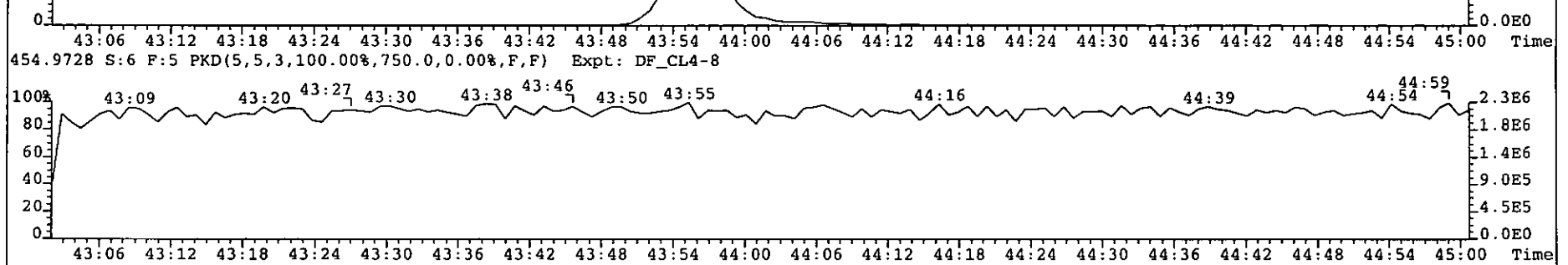
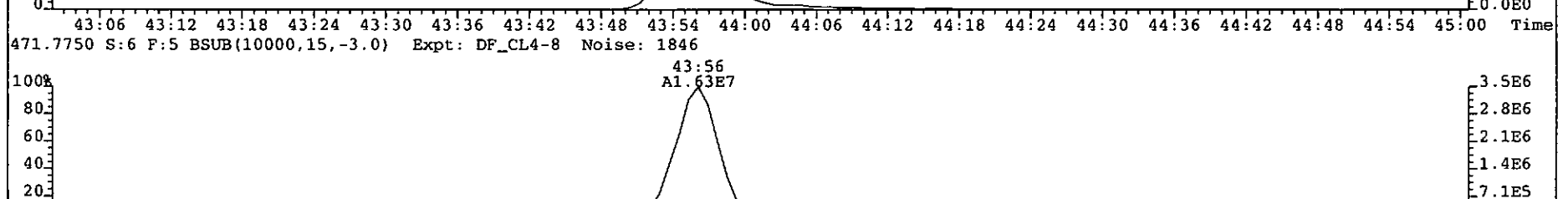
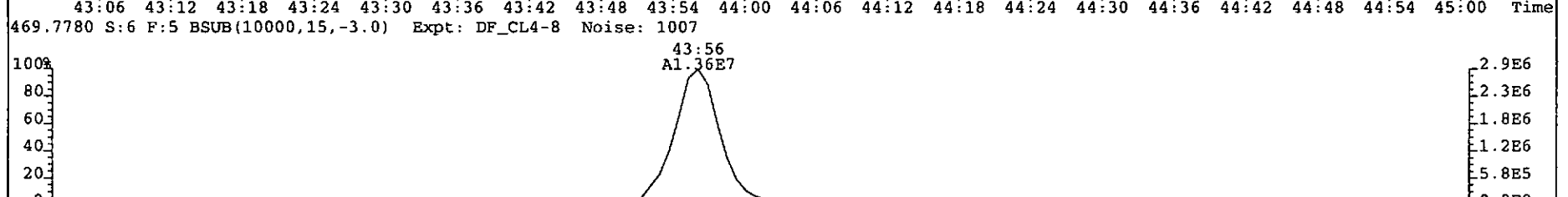
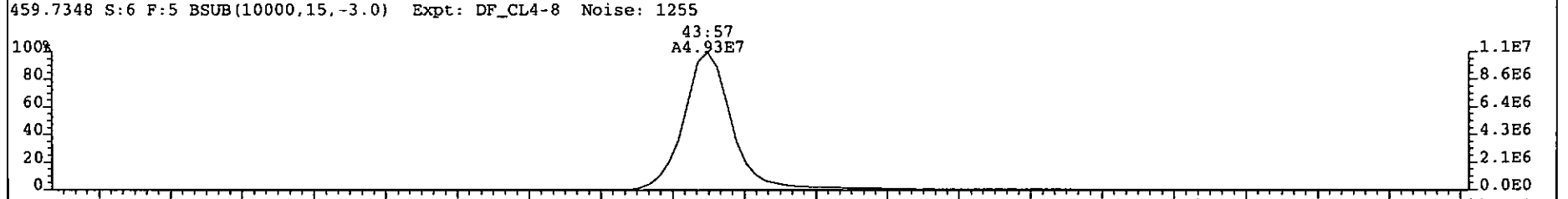
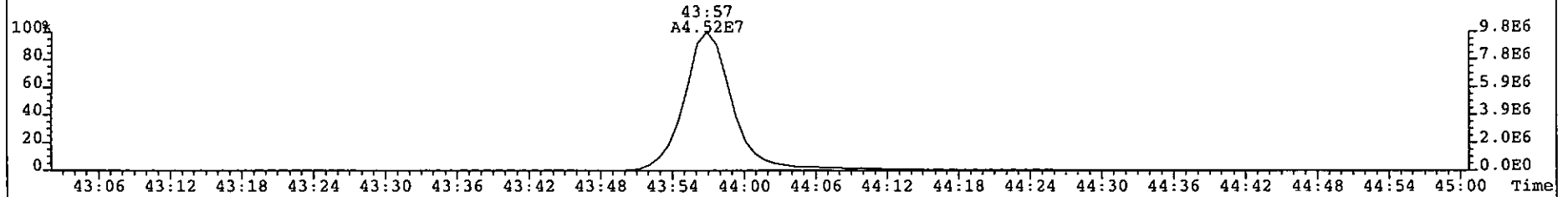
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 494



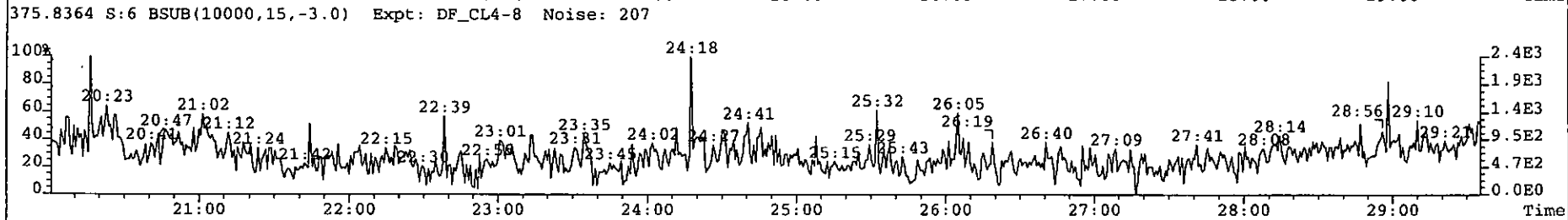
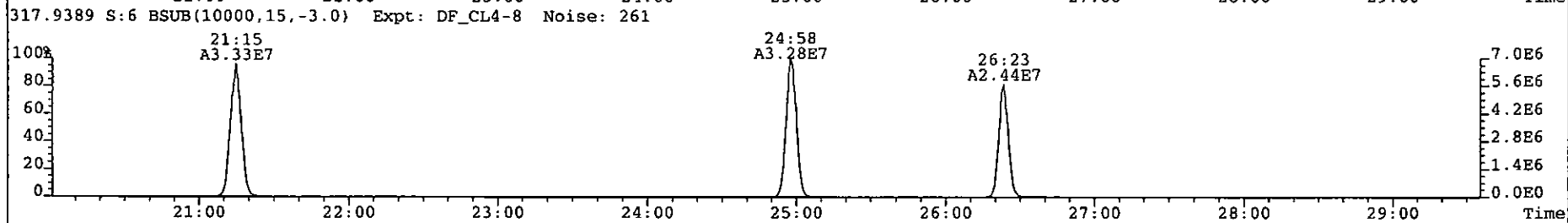
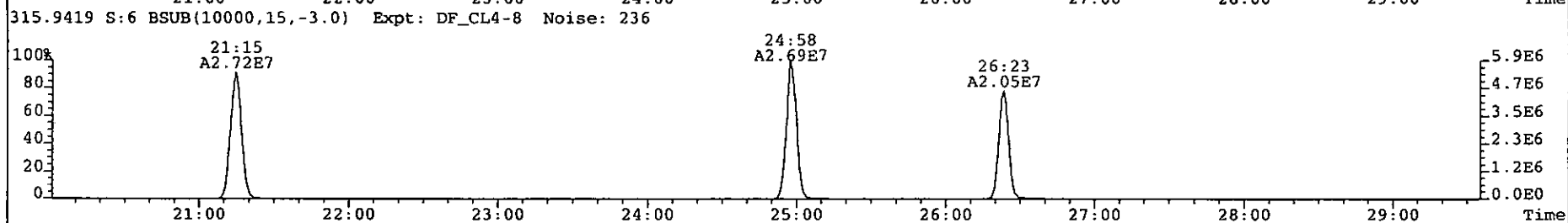
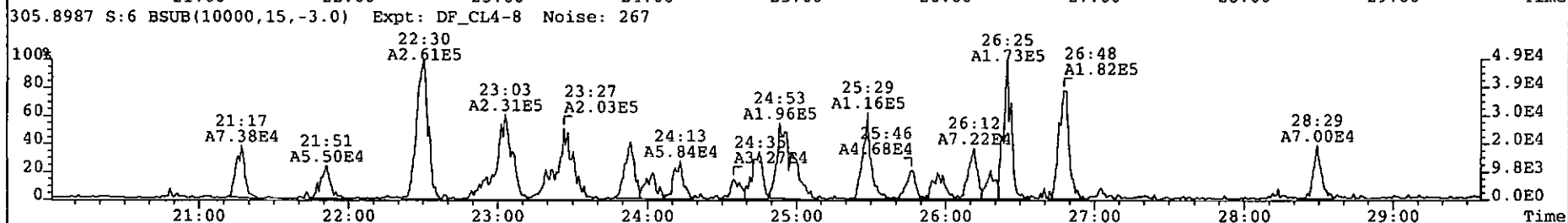
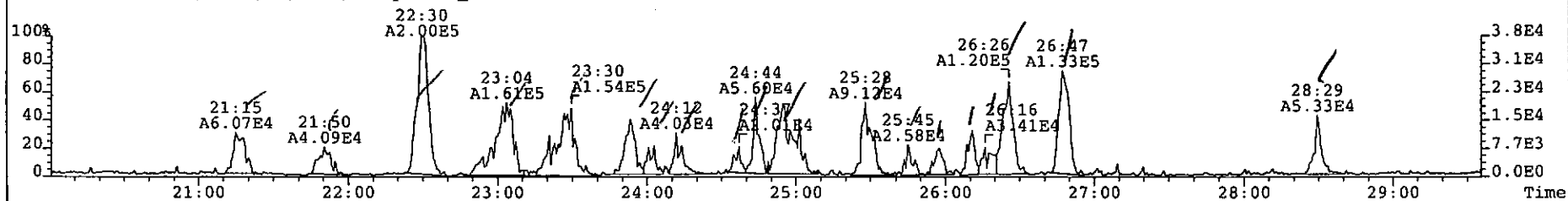
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DBS
423.7767 S:6 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2315



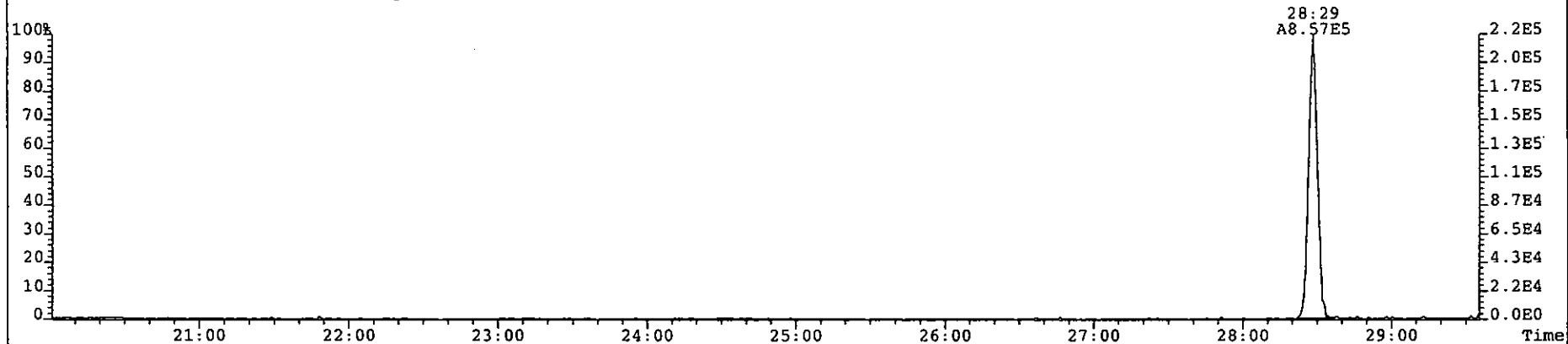
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 895



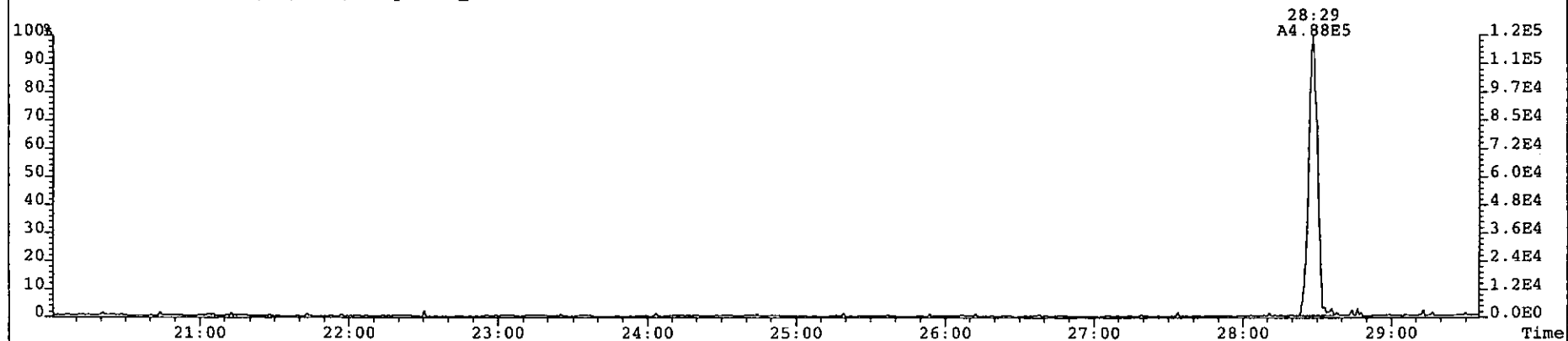
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
303.9016 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 245



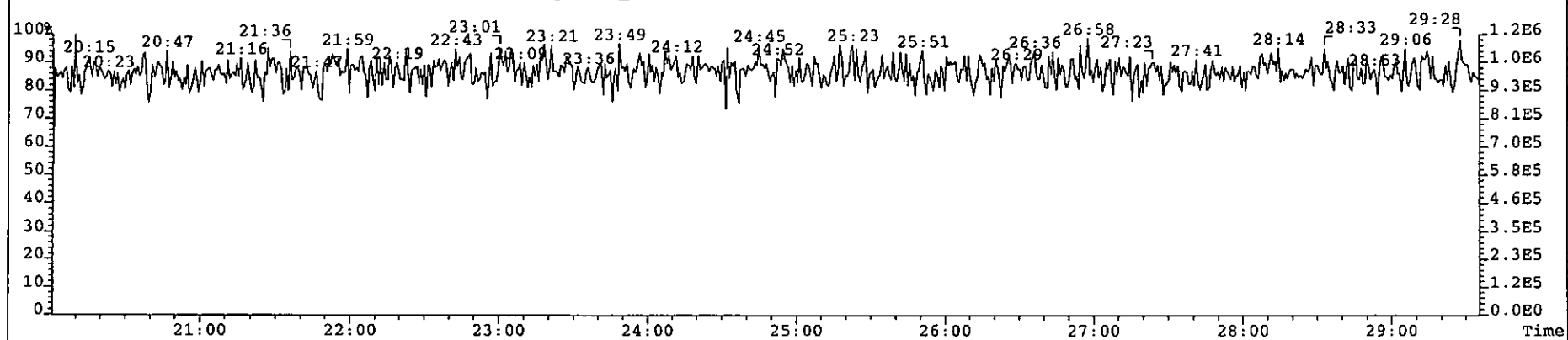
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
339.8597 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 198



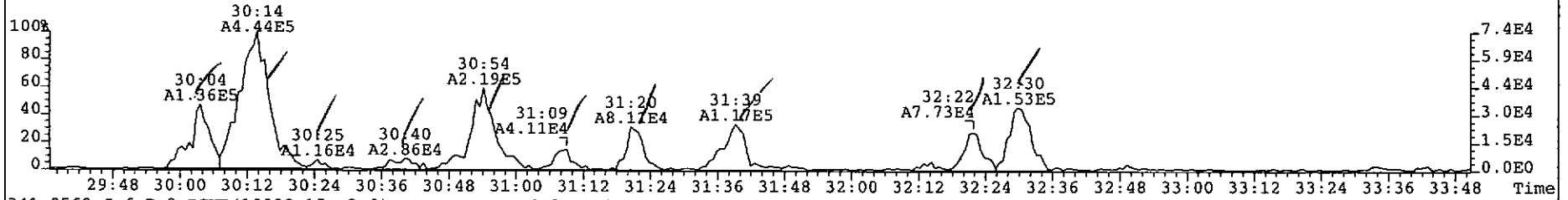
341.8568 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 200



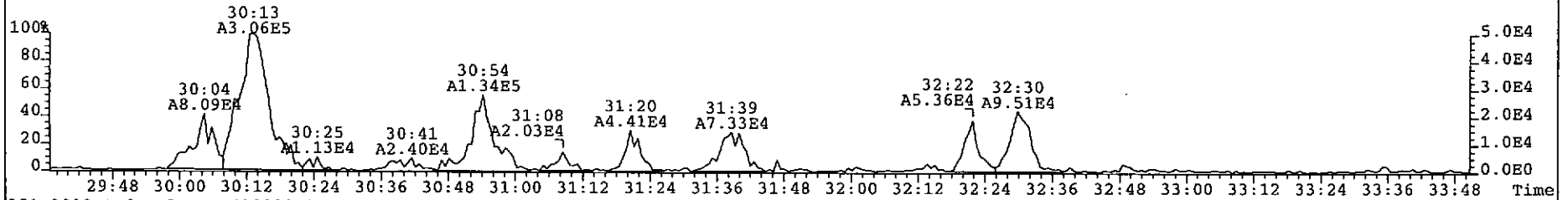
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



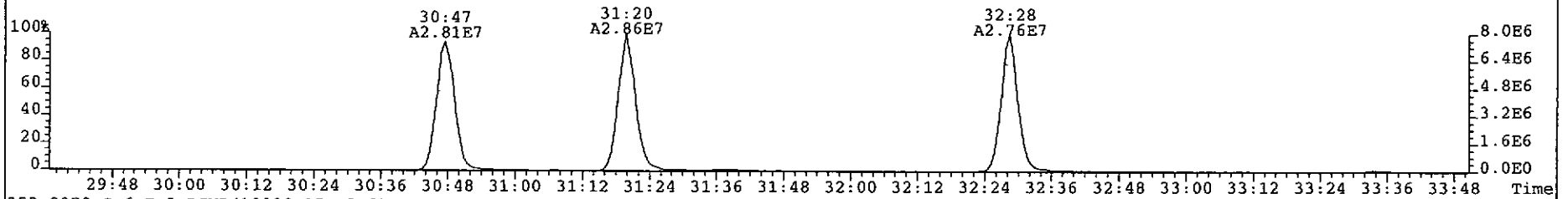
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 253



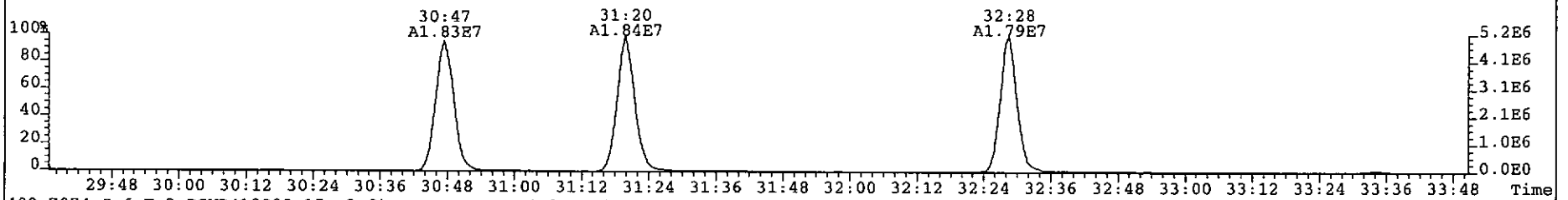
341.8568 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 199



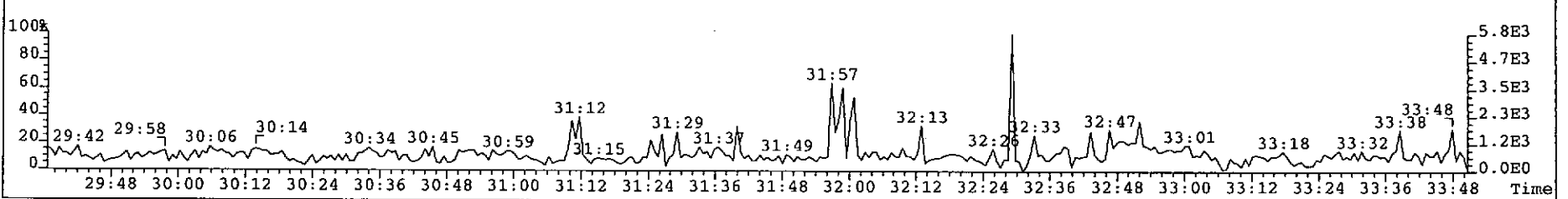
351.9000 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2633



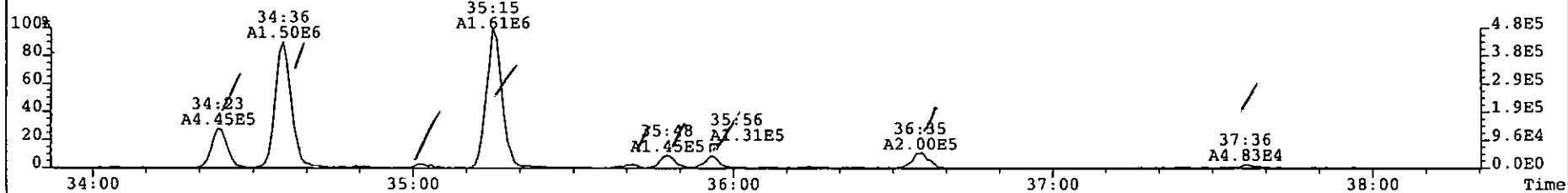
353.8970 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2011



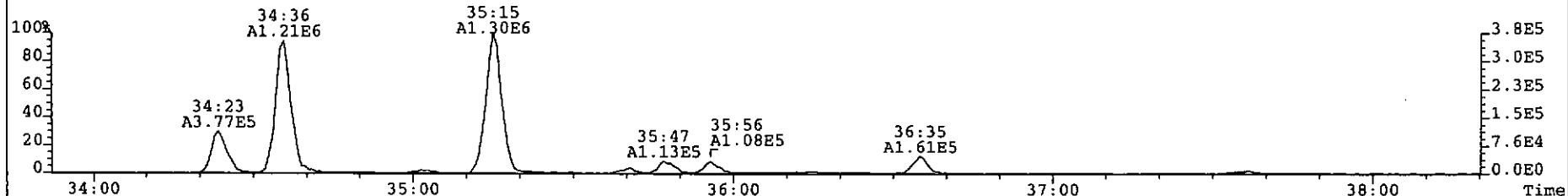
409.7974 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 196



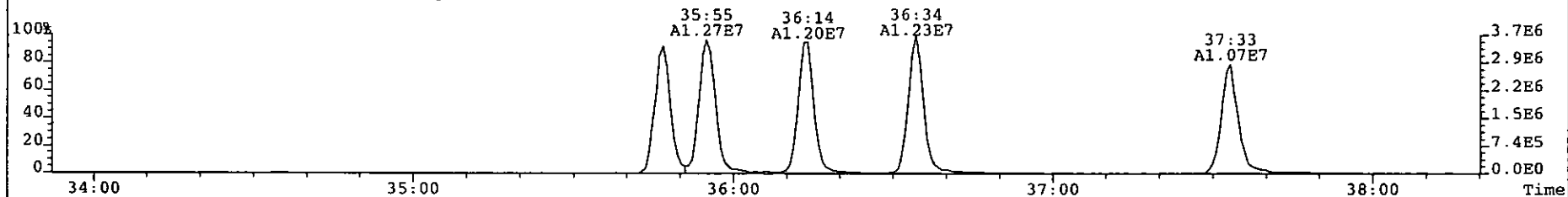
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 327



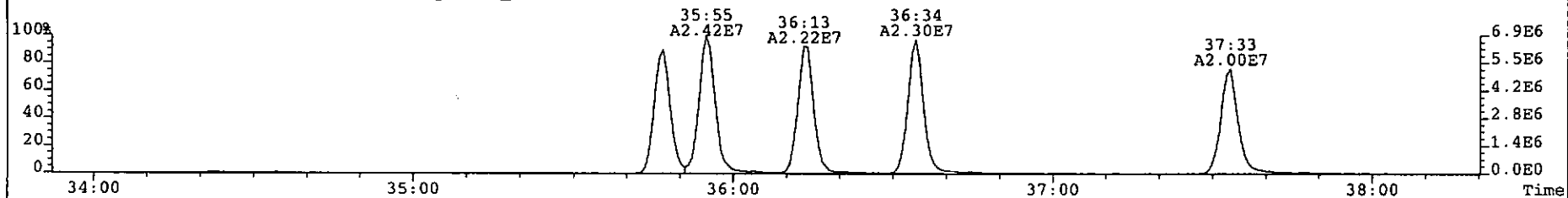
375.8178 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 312



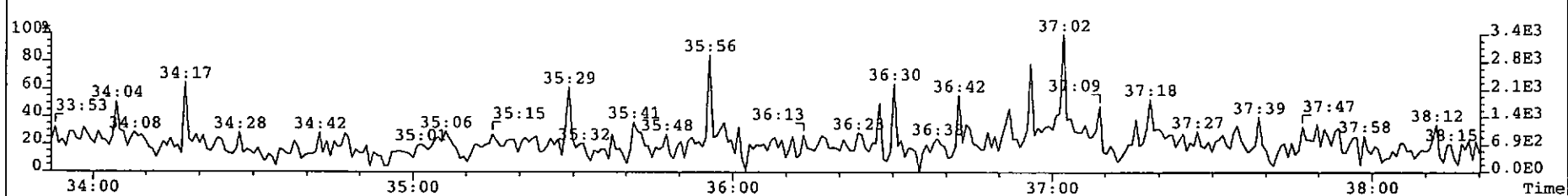
383.8639 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 418



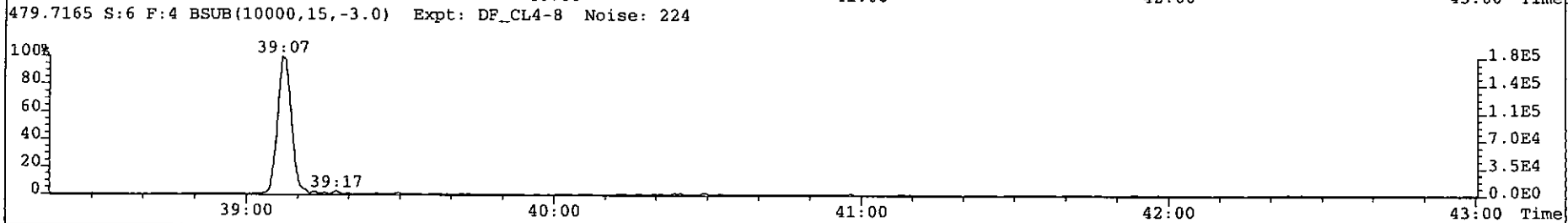
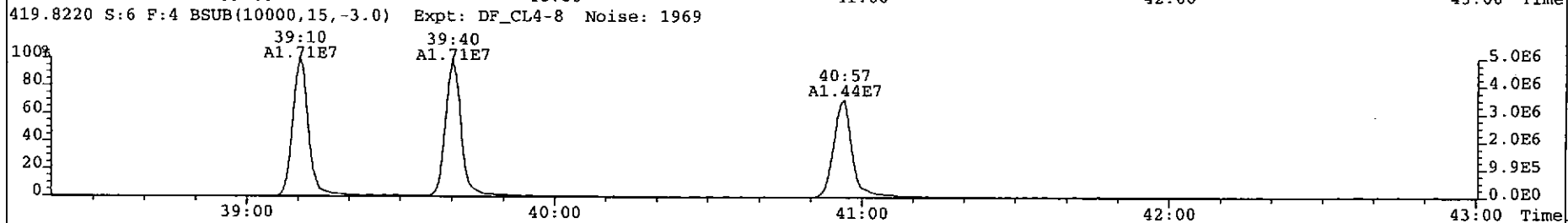
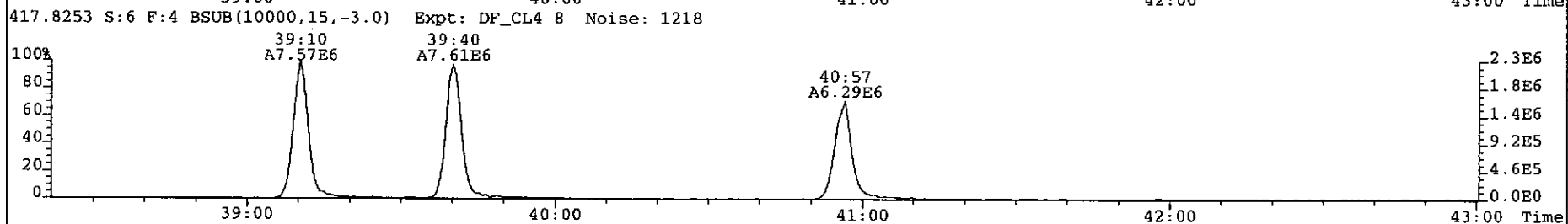
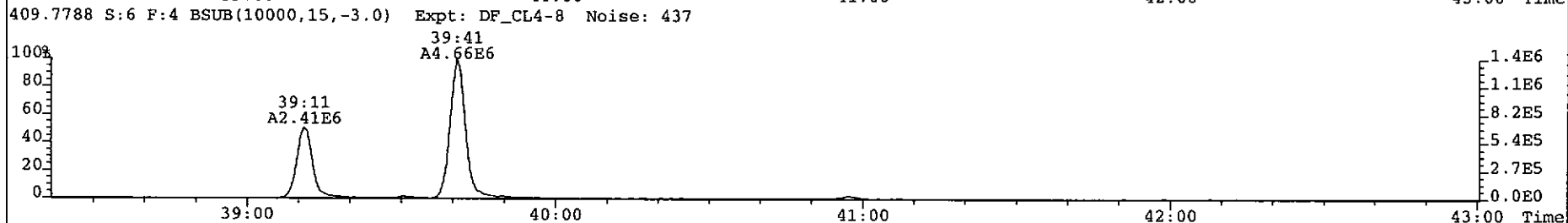
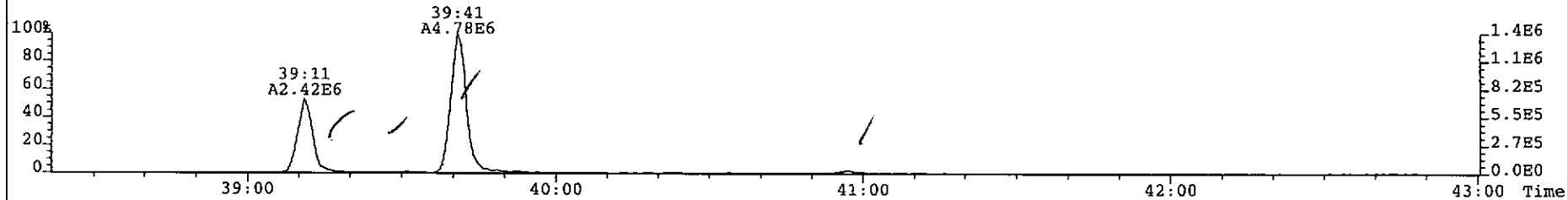
385.8610 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2080



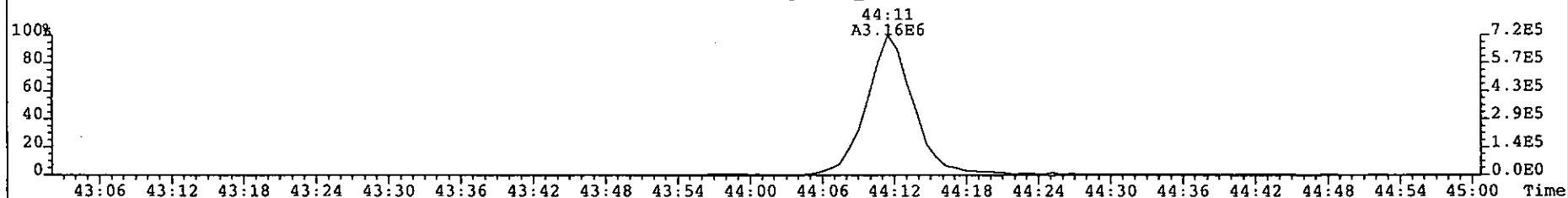
445.7555 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 216



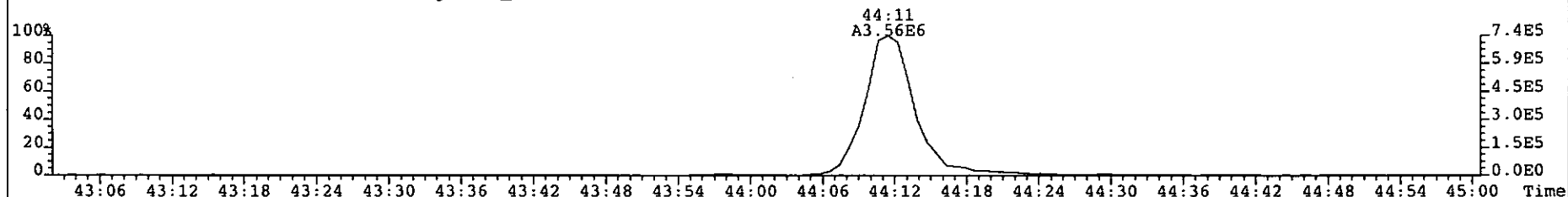
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 488



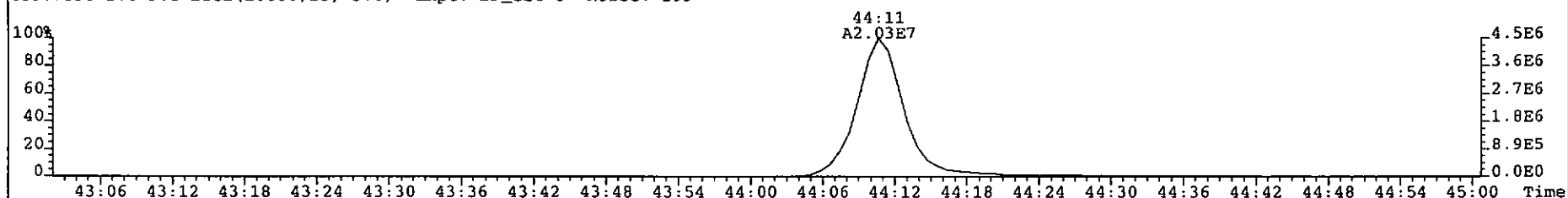
File: 090614P1 Acq: 14-JUN-2009 13:14:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1376_6875_002 BW-03-SS-090602 10.26g Vial# 49 File Text: AP DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 182



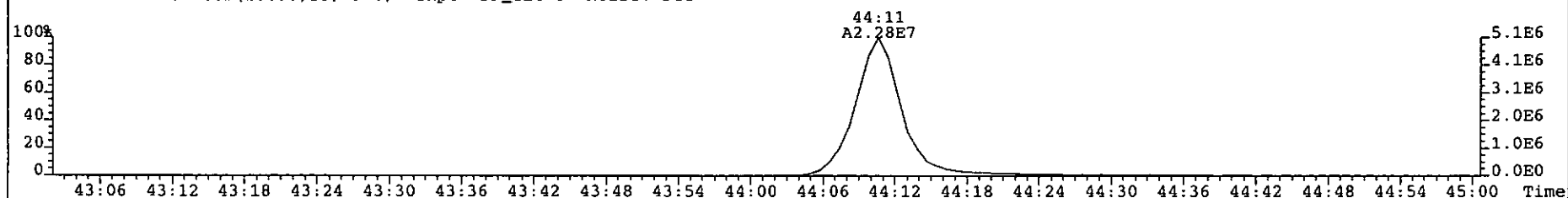
443.7398 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 375



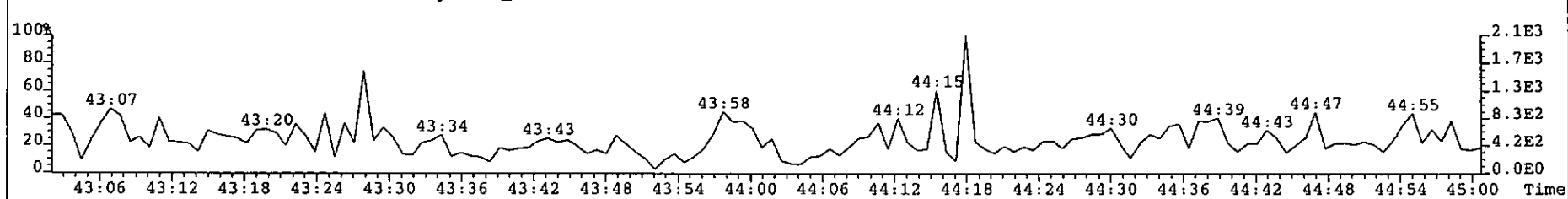
453.7830 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 199



455.7801 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 344



513.6775 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 139



1613/8290 Sample Summary

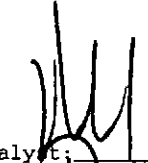
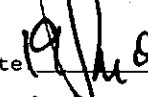
Analytical Perspectives

[Form: DF]

Client ID: BW-07-SS-090602 Filename: 090614P1 S: 7 Vial: 50 Acq: 14-JUN-09 14:04:11
 Lab ID: P1376_6875_003 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 10.41
 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	5.44e+04	0.54 y	27:19	1.08	0.264	1587	2.5	0.149	-
Ax	1,2,3,7,8-PeCDD	2.48e+05	1.63 y	32:51	1.00	1.48	1156	2.5	0.161	-
Ax	1,2,3,4,7,8-HxCDD	9.00e+05	1.24 y	36:46	1.08	6.48	3045	2.5	0.415	-
Ax	1,2,3,6,7,8-HxCDD	1.32e+06	1.12 y	36:53	0.94	9.59	3045	2.5	0.456	-
Ax	1,2,3,7,8,9-HxCDD	8.60e+05	1.14 y	37:11	0.99	6.00	3045	2.5	0.474	-
Ax	1,2,3,4,6,7,8-HpCDD	4.00e+07	1.04 y	40:23	0.97	301	23306	2.5	3.06	-
Ax	OCDD	2.48e+08	0.91 y	43:58	1.06	2810	22667	2.5	5.20	-
Ax2	OCDD-a	1.51e+07	2.52 y	43:57	0.06	2870	4536	2.5	17.4	-
Ax	2,3,7,8-TCDF	2.72e+05	0.84 y	26:25	1.05	0.825	1486	2.5	0.0925	-
Ax	1,2,3,7,8-PeCDF	1.11e+05	1.96 y	31:21	0.98	0.423	1200	2.5	0.109	-
Ax	2,3,4,7,8-PeCDF	2.78e+05	1.77 y	32:30	1.01	1.03	1200	2.5	0.106	-
Ax	1,2,3,4,7,8-HxCDF	3.72e+05	1.35 y	35:48	1.22	1.75	2085	2.5	0.119	-
Ax	1,2,3,6,7,8-HxCDF	3.74e+05	1.27 y	35:56	1.15	1.53	2085	2.5	0.114	-
Ax	2,3,4,6,7,8-HxCDF	4.95e+05	1.22 y	36:35	1.13	2.35	2085	2.5	0.123	-
Ax	1,2,3,7,8,9-HxCDF	1.13e+05	1.07 y	37:36	1.12	0.635	2085	2.5	0.166	-
Ax	1,2,3,4,6,7,8-HpCDF	7.48e+06	1.01 y	39:12	1.37	41.3	4183	2.5	0.254	-
Ax	1,2,3,4,7,8,9-HpCDF	3.39e+05	0.93 y	40:57	1.32	2.40	4183	2.5	0.396	-
Ax	OCDF	1.31e+07	0.89 y	44:12	0.94	121	7405	2.5	1.44	-
Ax2	OCDF-a	7.59e+05	2.66 y	44:11	0.05	125	1930	2.5	6.66	-
ES	13C-2,3,7,8-TCDD	3.66e+07	0.82 y	27:18	0.99	180	3196	2.5	0.300	93.8
ES	13C-1,2,3,7,8-PeCDD	3.22e+07	1.63 y	32:50	0.83	189	10166	2.5	1.13	98.2
ES	13C-1,2,3,4,7,8-HxCDD	2.46e+07	1.29 y	36:45	1.08	172	11301	2.5	1.46	89.4
ES	13C-1,2,3,6,7,8-HxCDD	2.81e+07	1.29 y	36:52	1.23	173	11301	2.5	1.29	90.1
ES	13C-1,2,3,7,8,9-HxCDD	2.77e+07	1.31 y	37:11	1.21	173	11301	2.5	1.31	90.0
ES	13C-1,2,3,4,6,7,8-HpCDD	2.62e+07	1.10 y	40:22	0.98	201	7137	2.5	1.02	105
ES	13C-OCDD	3.20e+07	0.83 y	43:57	0.66	366	12766	2.5	2.71	95.3
ES	13C-2,3,7,8-TCDF	6.06e+07	0.84 y	26:24	0.96	204	3010	2.5	0.223	106
ES	13C-1,2,3,7,8-PeCDF	5.13e+07	1.53 y	31:20	0.85	194	15583	2.5	1.29	101
ES	13C-2,3,4,7,8-PeCDF	5.11e+07	1.57 y	32:29	0.88	186	15583	2.5	1.25	96.9
ES	13C-1,2,3,4,7,8-HxCDF	3.35e+07	0.53 y	35:47	1.47	172	20634	2.5	1.96	89.3
ES	13C-1,2,3,6,7,8-HxCDF	4.09e+07	0.52 y	35:56	1.78	174	20634	2.5	1.63	90.4
ES	13C-2,3,4,6,7,8-HxCDF	3.58e+07	0.54 y	36:34	1.61	168	20634	2.5	1.80	87.5
ES	13C-1,2,3,7,8,9-HxCDF	3.07e+07	0.51 y	37:33	1.40	165	20634	2.5	2.07	86.1
ES	13C-1,2,3,4,6,7,8-HpCDF	2.55e+07	0.45 y	39:11	1.16	166	22330	2.5	2.70	86.2
ES	13C-1,2,3,4,7,8,9-HpCDF	2.06e+07	0.45 y	40:57	0.92	169	22330	2.5	3.40	87.8
ES	13C-OCDF	4.41e+07	0.90 y	44:11	1.04	320	17356	2.5	2.35	83.4
CS	37Cl-2,3,7,8-TCDD	1.49e+07		27:20	0.99	73.9			0.977	96.1
CS	13C-1,2,3,4,7-PeCDD	3.01e+07	1.69 y	32:19	0.77	191	10166	2.5	1.23	99.5
CS	13C-1,2,3,4,6-PeCDF	4.85e+07	1.50 y	30:48	0.79	196	15583	2.5	1.39	102
CS	13C-1,2,3,4,6,9-HxCDF	3.33e+07	0.53 y	36:14	1.41	178	20634	2.5	2.05	92.7
CS	13C-1,2,3,4,6,8,9-HpCDF	2.31e+07	0.44 y	39:41	0.91	191	22330	2.5	3.44	99.6
NA	n/a	*	* n	NotF»	Div0	*	1936	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	3.93e+07	0.82 y	26:37	-	10.8	3196	2.5	-	-
JS	13C-1,2,3,4-TCDF	5.97e+07	0.82 y	24:58	-	10.3	3010	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.27e+07	1.26 y	37:04	-	5.62	905	2.5	-	-

Vokw 19 Jun 09

Analyt: 
 Date: 
 19 Jun 09

SS	37Cl-2,3,7,8-TCDD	1.49e+07		27:20	1.00	78.3			1.05	102
SS	13C-1,2,3,4,7-PeCDD	3.01e+07	1.69 y	32:19	0.93	193	10166	2.5	1.52	101
SS	13C-1,2,3,4,6-PeCDF	4.85e+07	1.50 y	30:48	0.94	194	15583	2.5	1.49	101
SS	13C-1,2,3,4,6,9-HxCDF	3.33e+07	0.53 y	36:14	0.80	196	20634	2.5	1.62	102
SS	13C-1,2,3,4,6,8,9-HpCDF	2.31e+07	0.44 y	39:41	0.79	220	22330	2.5	2.34	114
SBS	2,4,6,8-TCDF	3.58e+05	0.88 y	22:30	1.05	1.09	1486	2.5	0.0925	-
Ay	1,3,6,8-TCDD	5.10e+05	0.74 y	23:29	1.08	2.47	1587	2.5	0.149	-
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	1587	2.5	0.149	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	1587	2.5	0.149	-
Ay	1,2,4,7,9-PeCDD	4.85e+05	1.58 y	30:17	1.00	2.90	1156	2.5	0.161	-
Ay	1,2,3,8,9-PeCDD	6.58e+04	1.45 y	33:17	1.00	0.394	1156	2.5	0.161	-
Ay	1,2,4,6,7,9-HxCDD	2.28e+06	1.21 y	35:03	1.00	16.3	3045	2.5	0.449	-
Ay	1,2,3,4,6,7,9-HpCDD	3.33e+07	1.05 y	39:31	0.97	251	23306	2.5	3.06	-
Ay	1,3,6,8-TCDF	1.22e+05	0.82 y	21:17	1.05	0.371	1486	2.5	0.0925	-
Ay	2,3,4,8-TCDF	7.01e+04	1.03 y	26:18	1.05	0.213	1486	2.5	0.0925	-
Ay	1,2,8,9-TCDF	1.04e+05	0.89 y	28:29	1.05	0.315	1486	2.5	0.0925	-
Ay	1,3,4,6,8-PeCDF	1.64e+06	1.78 y	28:29	1.05	4.96	1839	2.5	0.114	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	1200	2.5	0.108	-
Ay	1,2,3,4,6,8-HxCDF	1.39e+06	1.21 y	34:23	1.15	6.55	2085	2.5	0.129	-
Tot	Total Tetra-Dioxins	2.72e+06	0.74 y	23:29	1.08	13.2	1587	2.5	0.149	-
Tot	Total Penta-Dioxins	2.27e+06	1.58 y	30:17	1.00	13.6	1156	2.5	0.161	-
Tot	Total Hexa-Dioxins	1.06e+07	1.21 y	35:03	1.00	75.7	3045	2.5	0.449	-
Tot	Total Hepta-Dioxins	7.34e+07	1.05 y	39:31	0.97	552	23306	2.5	3.06	-
Tot	Total Tetra-Furans	3.16e+06	0.82 y	21:17	1.05	9.57	1486	2.5	0.0925	-
Tot	Total Penta-Furans	1.88e+06	1.51 y	30:03	1.00	7.05	1200	2.5	0.108	-
Tot	Total Hexa-Furans	1.12e+07	1.21 y	34:23	1.15	52.8	2085	2.5	0.129	-
Tot	Total Hepta-Furans	2.08e+07	1.01 y	39:12	1.35	124	4183	2.5	0.317	-
Tot	TCDD EMPC	2.95e+06	0.74 y	23:29	1.08	14.3	1587	2.5	0.149	-
Tot	PeCDD EMPC	2.27e+06	1.58 y	30:17	1.00	13.6	1156	2.5	0.161	-
Tot	HxCDD EMPC	1.08e+07	1.21 y	35:03	1.00	77.3	3045	2.5	0.449	-
Tot	HpCDD EMPC	7.34e+07	1.05 y	39:31	0.97	552	23306	2.5	3.06	-
Tot	TCDF EMPC	3.60e+06	0.82 y	21:17	1.05	10.9	1486	2.5	0.0925	-
Tot	PeCDF EMPC	2.17e+06	1.51 y	30:03	1.00	8.16	1200	2.5	0.108	-
Tot	HxCDF EMPC	1.12e+07	1.21 y	34:23	1.15	52.8	2085	2.5	0.129	-
Tot	HpCDF EMPC	2.10e+07	1.01 y	39:12	1.35	125	4183	2.5	0.317	-
AS	13C-1,3,6,8-TCDD	3.88e+07	0.81 y	23:27	1.09	175	3196	2.5	0.274	90.8
AS	13C-1,3,6,8-TCDF	6.91e+07	0.81 y	21:15	1.09	204	3010	2.5	0.196	106
DPE	HxCDFPE	*		NotF»	-	*	-	-	-	-
DPE	HpCDFPE	*		NotF»	-	*	-	-	-	-
DPE	OCDFPE	*		NotF»	-	*	-	-	-	-
DPE	NCDFPE	*		NotF»	-	*	-	-	-	-
DPE	DCDFPE	*		NotF»	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-	-

DPE 19-06-09

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 14 Checkcode: 0811
 File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

Total Conc.: 14.286 Unnamed Conc.: 11.551 Homolog count: 11

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:29	2.161e+05	n	2.937e+05	n	0.74	y	5.099e+05	5.099e+05	4.01e+01	y	2.47	1,3,6,8-TCDD
23:51	1.538e+05	n	1.758e+05	n	0.87	y	3.296e+05	3.296e+05	2.39e+01	y	1.60	
24:18	1.538e+04	y	2.253e+04	y	0.68	y	3.791e+04	3.791e+04	3.45e+00	y	0.184	
25:09	6.285e+04	y	9.700e+04	n	0.65	n	1.598e+05	1.445e+05	1.23e+01	y	0.701	
25:24	5.228e+04	n	6.252e+04	n	0.84	y	1.148e+05	1.148e+05	8.09e+00	y	0.557	
25:36	4.977e+04	y	6.107e+04	n	0.81	y	1.108e+05	1.108e+05	1.19e+01	y	0.537	
26:15	1.823e+04	y	2.600e+04	y	0.70	y	4.423e+04	4.423e+04	5.56e+00	y	0.214	
26:38	6.366e+05	n	8.025e+05	n	0.79	y	1.439e+06	1.439e+06	1.14e+02	y	6.98	
27:02	6.015e+04	n	7.456e+04	n	0.81	y	1.347e+05	1.347e+05	7.49e+00	y	0.653	
27:19	2.365e+04	y	4.389e+04	y	0.54	n	6.754e+04	5.436e+04	7.10e+00	y	0.264	2,3,7,8-TCDD
27:40	1.147e+04	y	2.624e+04	n	0.44	n	3.771e+04	2.637e+04	4.83e+00	y	0.128	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 14 Checkcode: 0811
 File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

Total Conc.: 13.570 Unnamed Conc.: 8.795 Homolog count: 10

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:17	2.967e+05	n	1.883e+05	n	1.58	y	4.850e+05	4.850e+05	2.97e+01	y	2.90	1,2,4,7,9-PeCDD
30:50	6.206e+04	n	4.198e+04	n	1.48	y	1.040e+05	1.040e+05	1.11e+01	y	0.622	
31:24	1.887e+05	n	1.353e+05	n	1.39	y	3.240e+05	3.240e+05	2.91e+01	y	1.94	
31:36	1.433e+05	n	9.867e+04	n	1.45	y	2.420e+05	2.420e+05	2.33e+01	y	1.45	
31:42	1.498e+05	n	1.024e+05	n	1.46	y	2.522e+05	2.522e+05	2.27e+01	y	1.51	
31:57	1.159e+05	n	6.722e+04	n	1.72	y	1.831e+05	1.831e+05	1.24e+01	y	1.09	
32:20	1.764e+05	n	1.287e+05	n	1.37	y	3.051e+05	3.051e+05	3.45e+01	y	1.82	
32:51	1.534e+05	n	9.434e+04	n	1.63	y	2.477e+05	2.477e+05	2.55e+01	y	1.48	1,2,3,7,8-PeCDD
32:58	3.443e+04	n	2.605e+04	n	1.32	y	6.048e+04	6.048e+04	7.73e+00	y	0.362	
33:17	3.898e+04	n	2.684e+04	n	1.45	y	6.582e+04	6.582e+04	7.72e+00	y	0.394	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 14 Checkcode: 0811
 File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

Total Conc.: 77.292 Unnamed Conc.: 38.950 Homolog count: 8

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:03	1.248e+06	n	1.031e+06	n	1.21	y	2.279e+06	2.279e+06	1.01e+02	y	16.3	1,2,4,6,7,9-HxCDD
35:43	6.785e+05	n	5.339e+05	n	1.27	y	1.212e+06	1.212e+06	5.13e+01	y	8.65	
36:00	1.871e+06	y	1.561e+06	y	1.20	y	3.432e+06	3.432e+06	1.17e+02	y	24.5	

36:08 1.987e+05 y 9.681e+04 y 2.05 n 2.955e+05 2.169e+05 1.08e+01 y 1.55
 36:46 4.976e+05 y 4.024e+05 y 1.24 y 9.000e+05 9.000e+05 3.88e+01 y 6.48 1,2,3,4,7,8-HxCDD
 36:52 7.005e+05 y 6.243e+05 y 1.12 y 1.325e+06 1.325e+06 6.19e+01 y 9.59 1,2,3,6,7,8-HxCDD
 37:04 3.250e+05 y 2.713e+05 y 1.20 y 5.963e+05 5.963e+05 2.95e+01 y 4.26
 37:11 4.574e+05 y 4.026e+05 y 1.14 y 8.600e+05 8.600e+05 3.56e+01 y 6.00 1,2,3,7,8,9-HxCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 14 Checkcode: 0811

File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

Total Conc.: 552.41 Unnamed Conc.: * Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:31	1.704e+07	n	1.630e+07	n	1.05 y	3.334e+07	3.334e+07	2.12e+02 y	251	1,2,3,4,6,7,9-HpCDD
40:23	2.045e+07	n	1.960e+07	n	1.04 y	4.004e+07	4.004e+07	2.35e+02 y	301	1,2,3,4,6,7,8-HpCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 14 Checkcode: 0811

File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

Total Conc.: 10.911 Unnamed Conc.: 8.102 Homolog count: 19

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:17	5.508e+04	n	6.715e+04	n	0.82 y	1.222e+05	1.222e+05	8.63e+00 y	0.371	1,3,6,8-TCDF
21:50	4.785e+04	n	6.383e+04	n	0.75 y	1.117e+05	1.117e+05	9.22e+00 y	0.339	
22:30	1.682e+05	n	1.901e+05	n	0.88 y	3.583e+05	3.583e+05	2.63e+01 y	1.09	2,4,6,8-TCDF
23:01	1.741e+05	n	2.237e+05	n	0.78 y	3.979e+05	3.979e+05	1.92e+01 y	1.21	
23:27	1.373e+05	n	1.831e+05	y	0.75 y	3.204e+05	3.204e+05	1.76e+01 y	0.972	
23:53	9.455e+04	y	1.105e+05	y	0.86 y	2.050e+05	2.050e+05	1.63e+01 y	0.622	
24:02	2.744e+04	y	3.554e+04	y	0.77 y	6.298e+04	6.298e+04	7.50e+00 y	0.191	
24:12	5.445e+04	y	6.544e+04	y	0.83 y	1.199e+05	1.199e+05	1.10e+01 y	0.364	
24:35	3.779e+04	y	4.658e+04	y	0.81 y	8.438e+04	8.438e+04	5.55e+00 y	0.256	
24:44	5.875e+04	y	7.137e+04	y	0.82 y	1.301e+05	1.301e+05	1.29e+01 y	0.395	
24:58	2.167e+05	y	2.827e+05	y	0.77 y	4.995e+05	4.995e+05	2.03e+01 y	1.51	
25:29	1.006e+05	y	1.233e+05	y	0.82 y	2.239e+05	2.239e+05	1.83e+01 y	0.679	
25:46	4.440e+04	y	4.530e+04	n	0.98 n	8.970e+04	8.018e+04	9.72e+00 y	0.243	
25:58	3.865e+04	n	4.349e+04	n	0.89 n	8.215e+04	7.698e+04	4.64e+00 y	0.233	
26:11	5.727e+04	y	6.227e+04	y	0.92 n	1.195e+05	1.102e+05	7.95e+00 y	0.334	
26:18	4.074e+04	n	3.962e+04	y	1.03 n	8.036e+04	7.012e+04	1.19e+01 y	0.213	2,3,4,8-TCDF
26:25	1.243e+05	y	1.476e+05	y	0.84 y	2.719e+05	2.719e+05	2.76e+01 y	0.825	2,3,7,8-TCDF
26:48	1.020e+05	n	1.469e+05	n	0.69 y	2.489e+05	2.489e+05	2.36e+01 y	0.755	
28:29	5.214e+04	n	5.862e+04	n	0.89 n	1.108e+05	1.038e+05	8.75e+00 y	0.315	1,2,8,9-TCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDF EMPC Function: 2 Run #: 14 Checkcode: 0811

File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

Total Conc.: 8.1566 Unnamed Conc.: 6.703 Homolog count: 9

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
30:03	1.143e+05	y	7.590e+04	y	1.51	y	1.902e+05	1.902e+05	1.36e+01	y	0.714
30:14	5.401e+05	y	3.505e+05	y	1.54	y	8.906e+05	8.906e+05	6.09e+01	y	3.34
30:40	1.527e+04	y	1.681e+04	y	0.91	n	3.207e+04	2.512e+04	3.66e+00	y	0.0943
30:54	2.114e+05	n	1.507e+05	y	1.40	y	3.621e+05	3.621e+05	2.26e+01	y	1.36
31:09	4.068e+04	n	2.618e+04	y	1.55	y	6.685e+04	6.685e+04	5.77e+00	y	0.251
31:21	8.547e+04	n	4.363e+04	n	1.96	n	1.291e+05	1.113e+05	1.07e+01	y	0.423 1,2,3,7,8-PeCDF
31:39	1.193e+05	n	6.132e+04	y	1.94	n	1.806e+05	1.564e+05	1.26e+01	y	0.587
32:22	5.928e+04	n	3.448e+04	y	1.72	y	9.376e+04	9.376e+04	8.89e+00	y	0.352
32:30	1.776e+05	n	1.001e+05	y	1.77	y	2.777e+05	2.777e+05	1.95e+01	y	1.03 2,3,4,7,8-PeCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HxCDF EMPC Function: 3 Run #: 14 Checkcode: 0811
 File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

Total Conc.: 52.773 Unnamed Conc.: 39.964 Homolog count: 9

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:23	7.594e+05	n	6.266e+05	n	1.21	y	1.386e+06	1.386e+06	9.21e+01	y	6.55 1,2,3,4,6,8-HxCDF
34:36	2.368e+06	n	1.975e+06	n	1.20	y	4.343e+06	4.343e+06	3.02e+02	y	20.5
35:02	5.902e+04	y	4.688e+04	n	1.26	y	1.059e+05	1.059e+05	5.43e+00	y	0.501
35:15	2.137e+06	n	1.756e+06	n	1.22	y	3.893e+06	3.893e+06	2.45e+02	y	18.4
35:40	5.975e+04	y	5.309e+04	y	1.13	y	1.128e+05	1.128e+05	7.11e+00	y	0.533
35:48	2.132e+05	y	1.584e+05	y	1.35	y	3.716e+05	3.716e+05	2.41e+01	y	1.75 1,2,3,4,7,8-HxCDF
35:56	2.094e+05	y	1.643e+05	y	1.27	y	3.737e+05	3.737e+05	2.23e+01	y	1.53 1,2,3,6,7,8-HxCDF
36:35	2.724e+05	y	2.228e+05	y	1.22	y	4.952e+05	4.952e+05	3.14e+01	y	2.35 2,3,4,6,7,8-HxCDF
37:36	5.861e+04	y	5.467e+04	n	1.07	y	1.133e+05	1.133e+05	6.62e+00	y	0.635 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]											

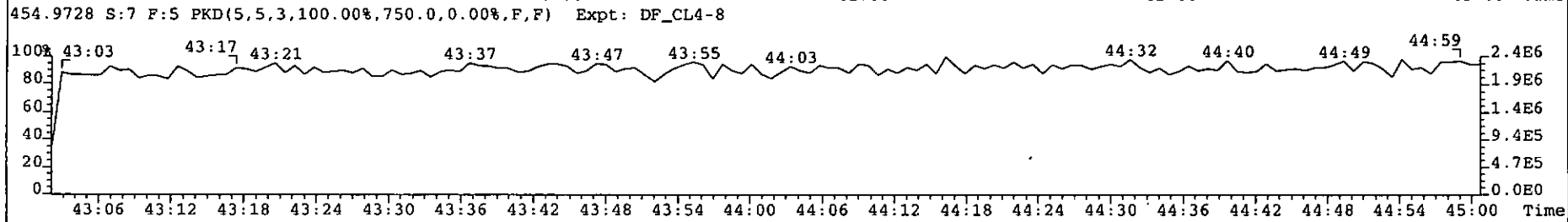
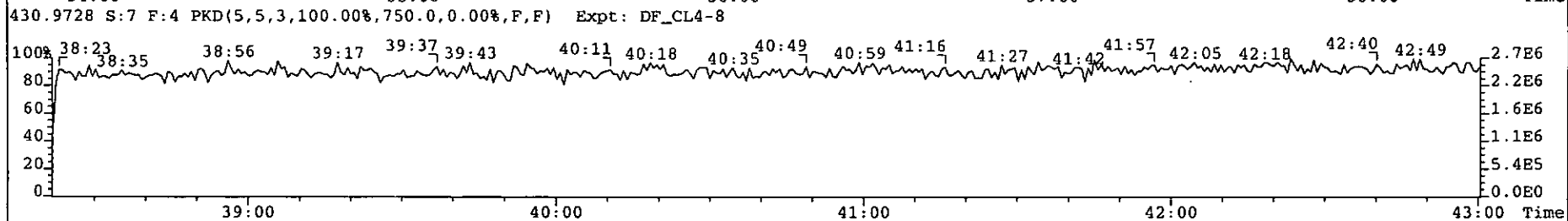
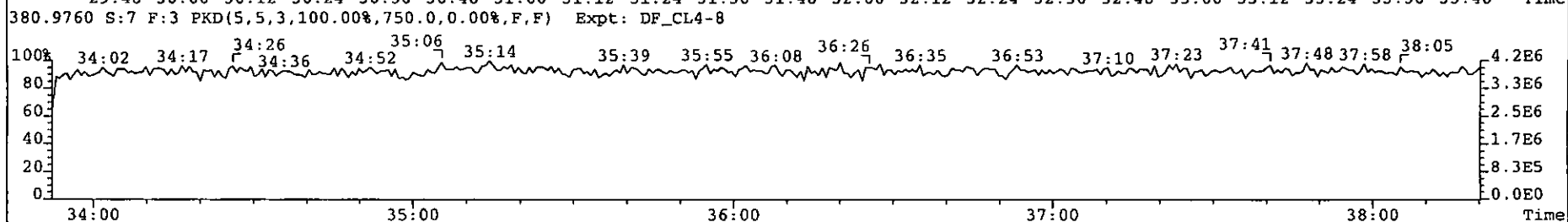
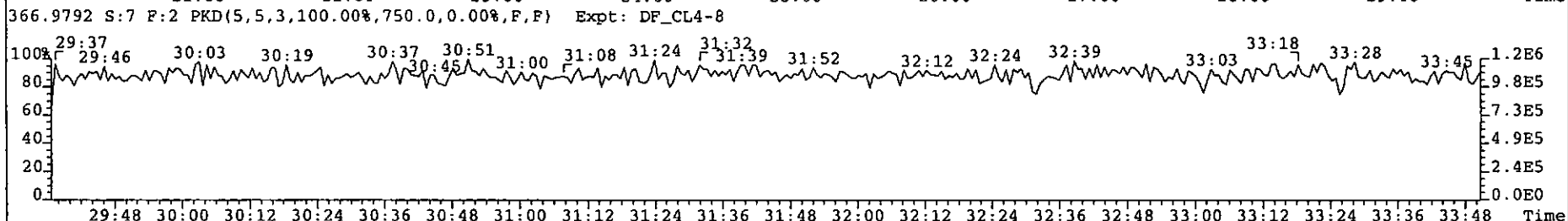
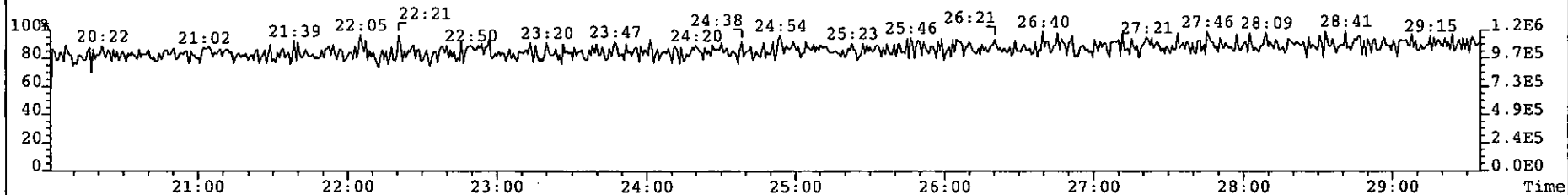
Totals class: HpCDF EMPC Function: 4 Run #: 14 Checkcode: 0811
 File Name: 090614P1 Sample #: 7 Sample text: P1376_6875_003 BW-07-SS-090602 10.41g

Acquired: 14-JUN-09 14:04:11 Processed: 15-JUN-09 09:15:11

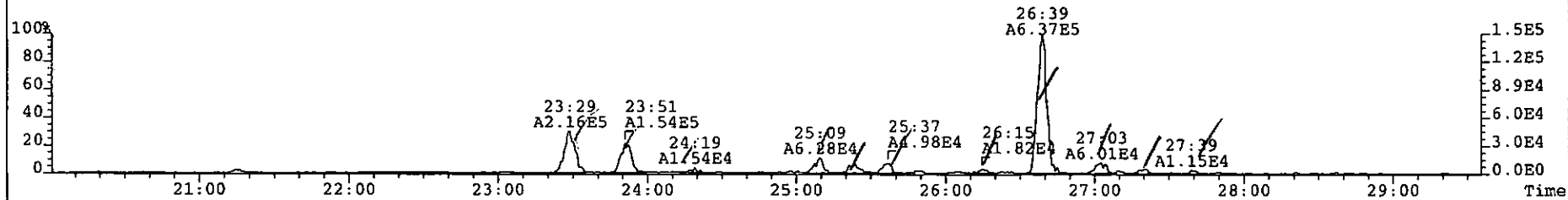
Total Conc.: 125.15 Unnamed Conc.: 81.439 Homolog count: 4

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:12	3.760e+06	n	3.720e+06	n	1.01	y	7.480e+06	7.480e+06	2.74e+02	y	41.3 1,2,3,4,6,7,8-HpCDF
39:31	7.022e+04	n	8.453e+04	n	0.83	n	1.548e+05	1.377e+05	6.67e+00	y	0.854
39:41	6.524e+06	n	6.475e+06	n	1.01	y	1.300e+07	1.300e+07	4.79e+02	y	80.6
40:57	1.631e+05	n	1.760e+05	n	0.93	y	3.391e+05	3.391e+05	1.37e+01	y	2.40 1,2,3,4,7,8,9-HpCDF

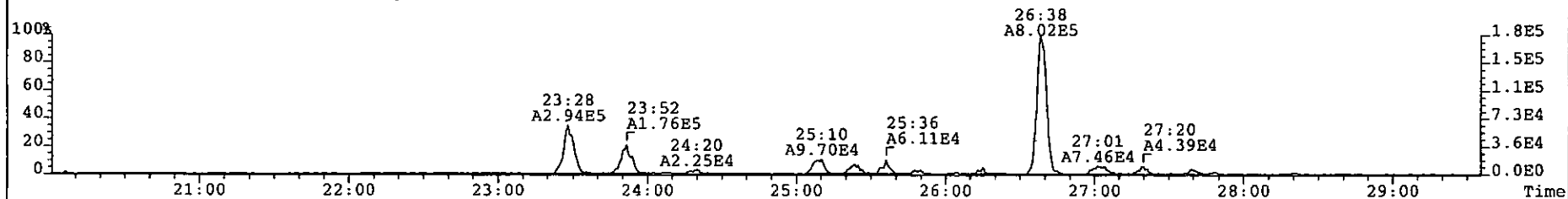
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW: 07-SS-090602 10.41g Vial# 50 File Text: AP DB5
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



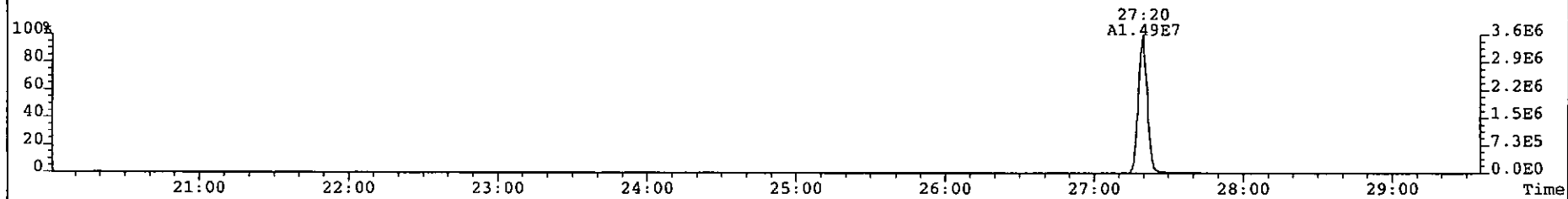
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
319.8965 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 356



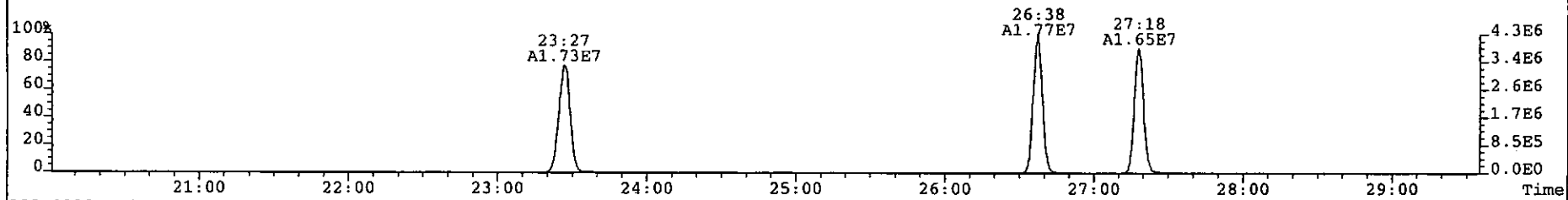
321.8936 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 355



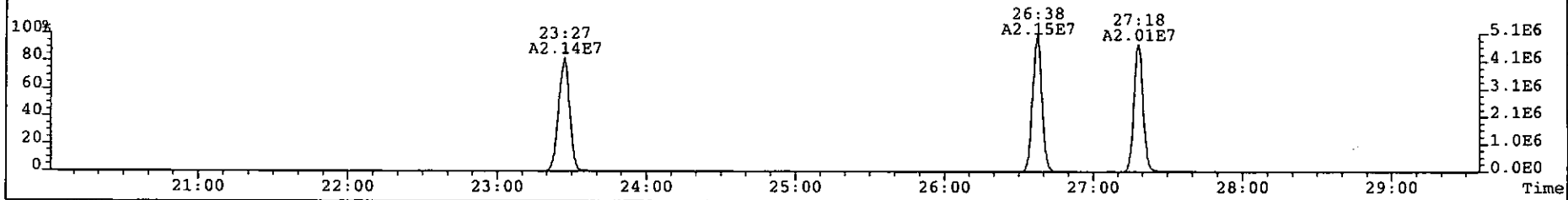
327.8850 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 361



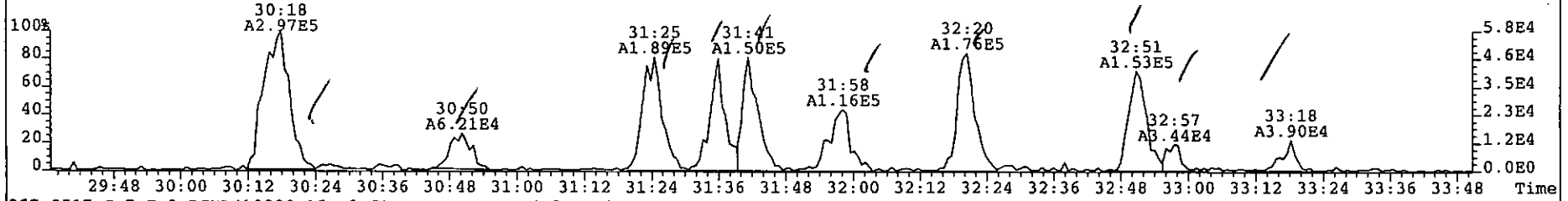
331.9368 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 342



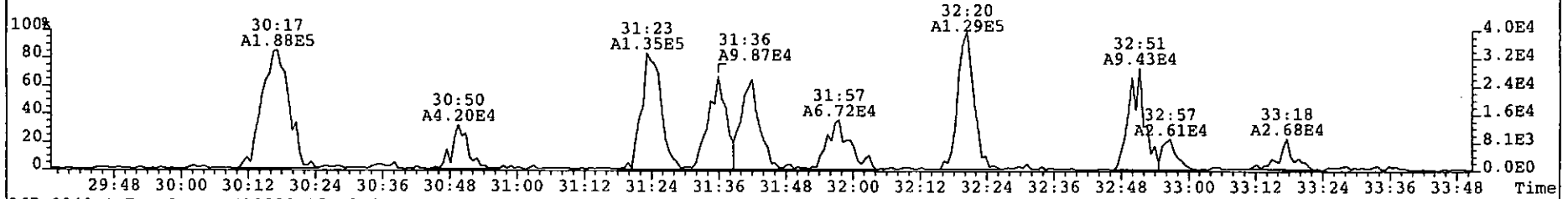
333.9339 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 451



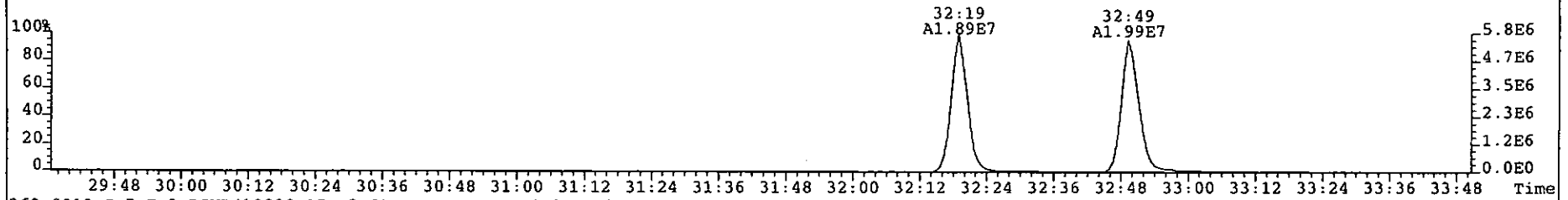
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
355.8546 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 181



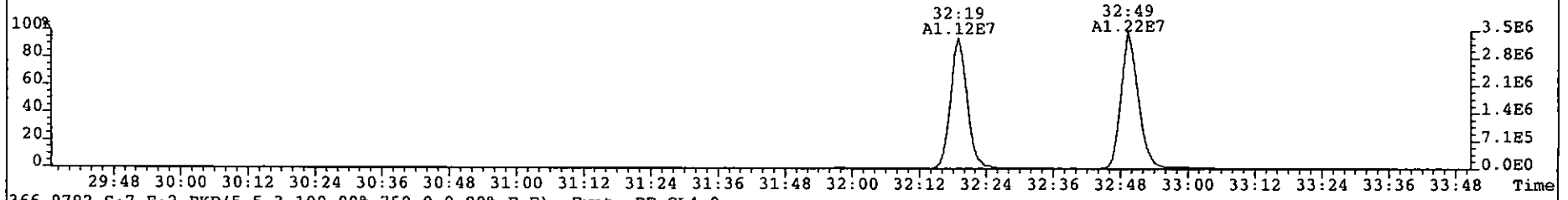
357.8517 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 171



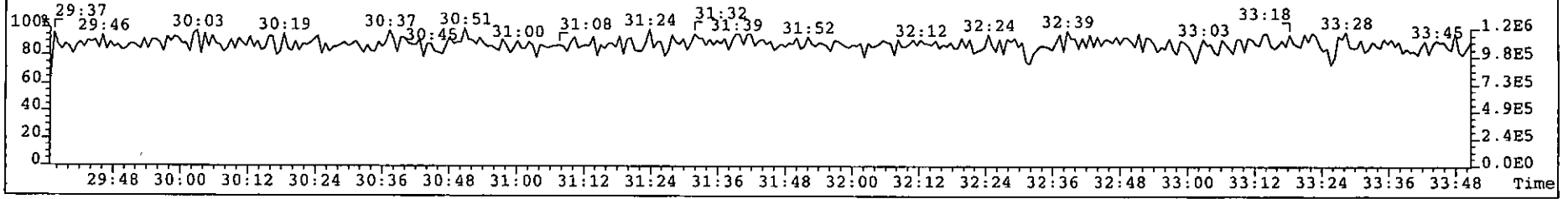
367.8949 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 127



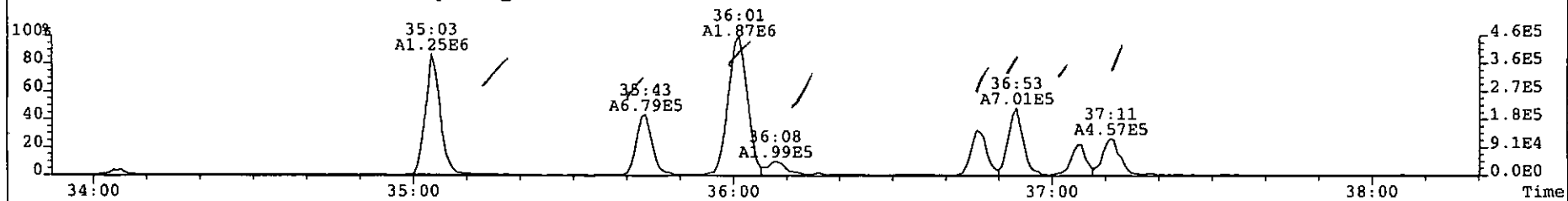
369.8919 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 188



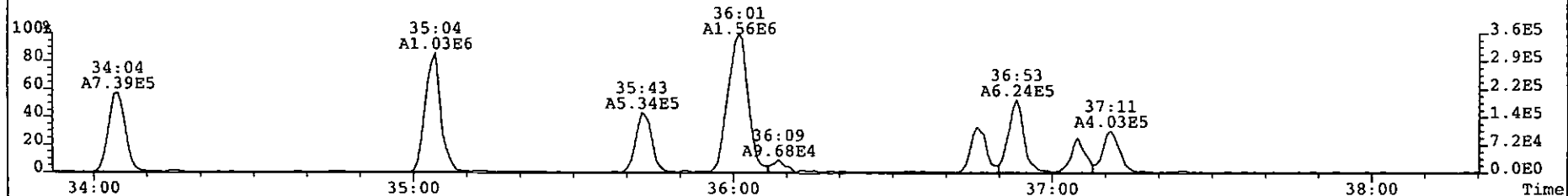
366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



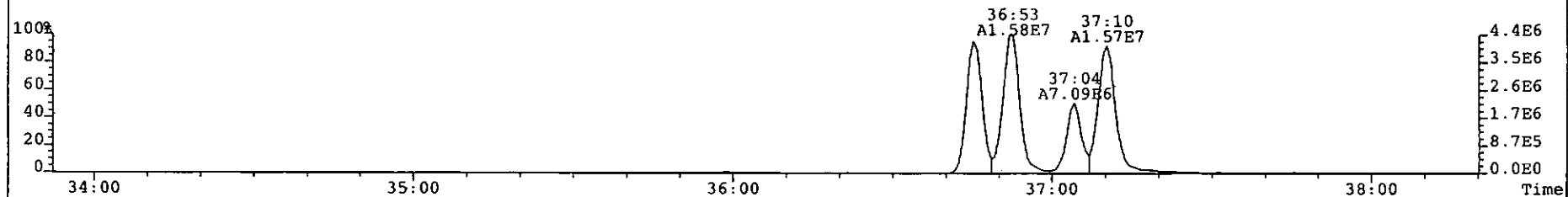
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
389.8156 S:7 F:3 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 533



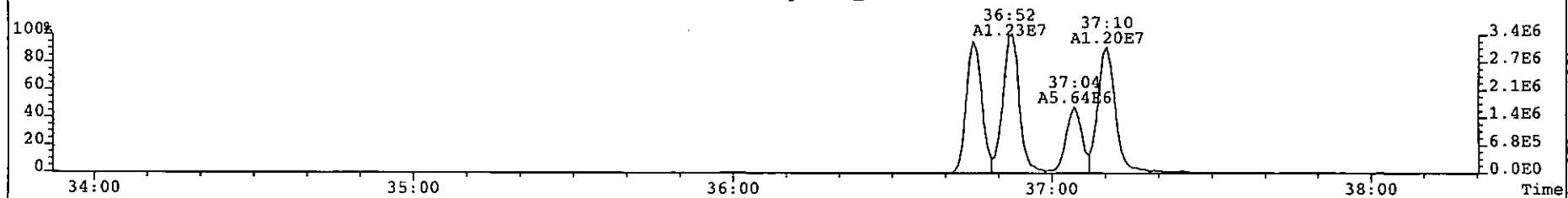
391.8127 S:7 F:3 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 562



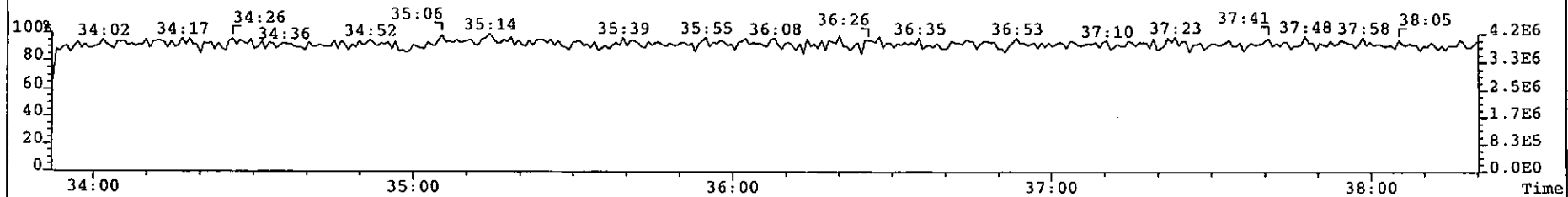
401.8559 S:7 F:3 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 165



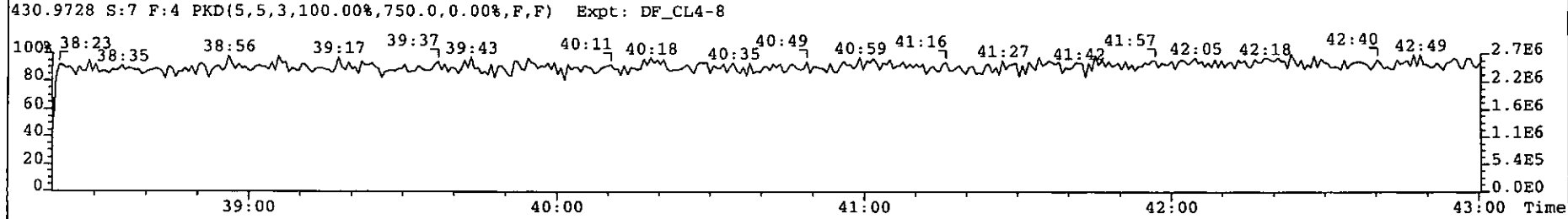
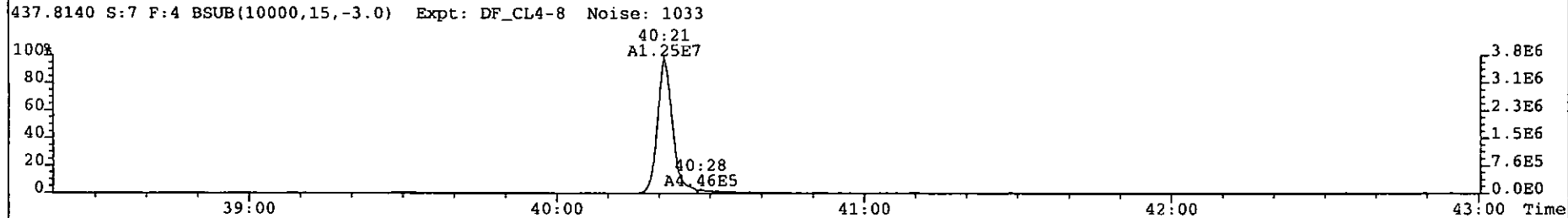
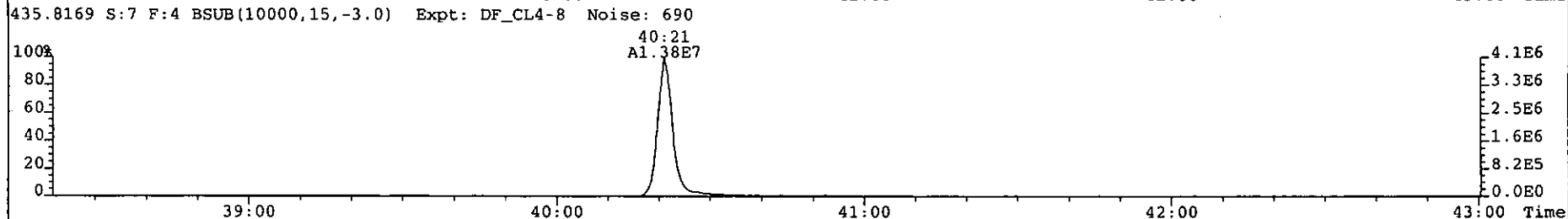
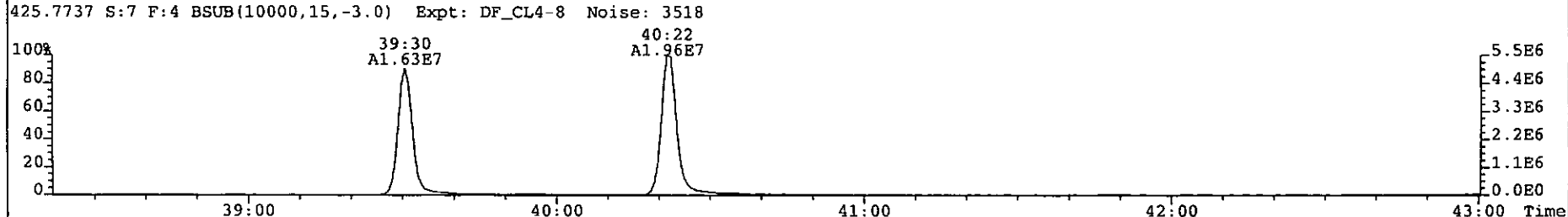
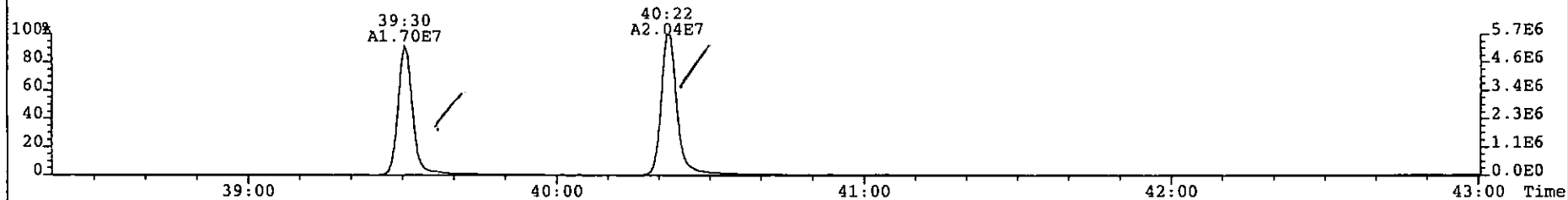
403.8530 S:7 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 178



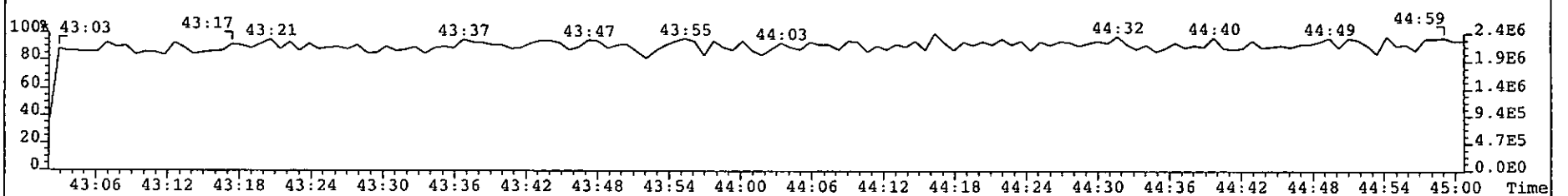
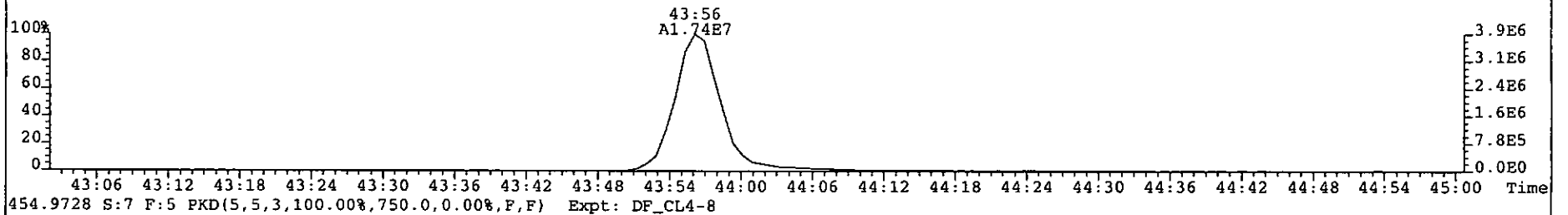
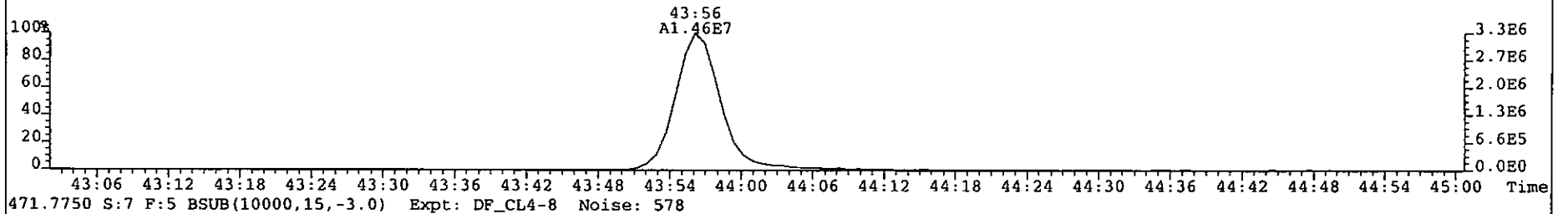
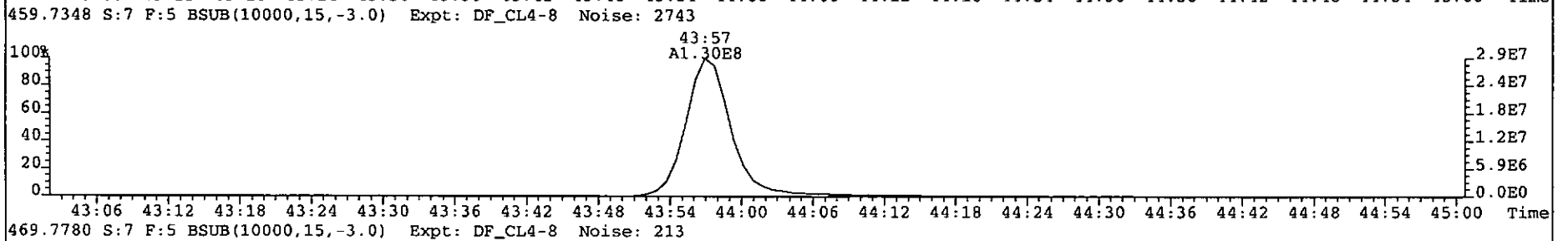
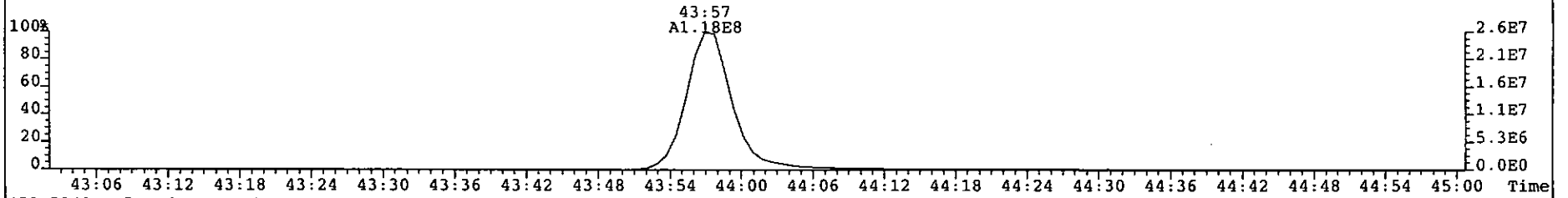
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



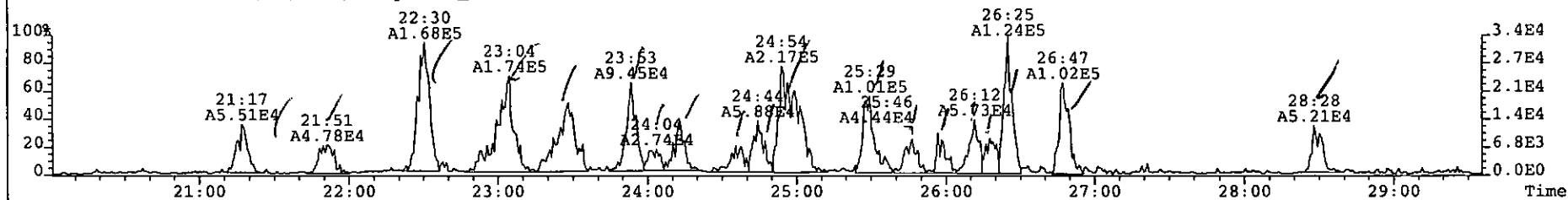
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
423.7767 S:7 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3588



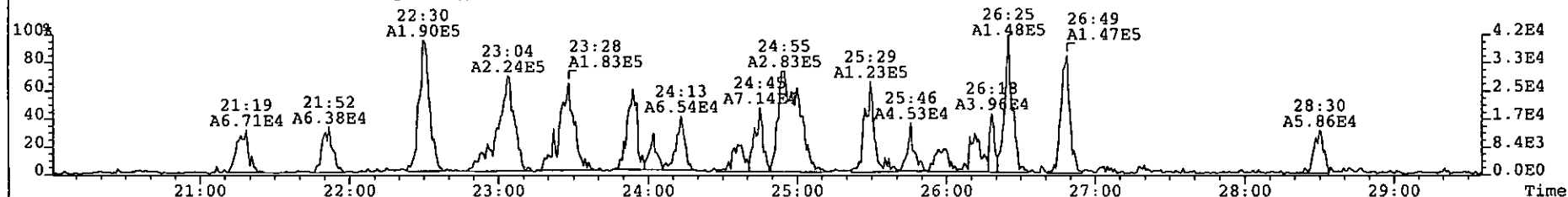
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 316



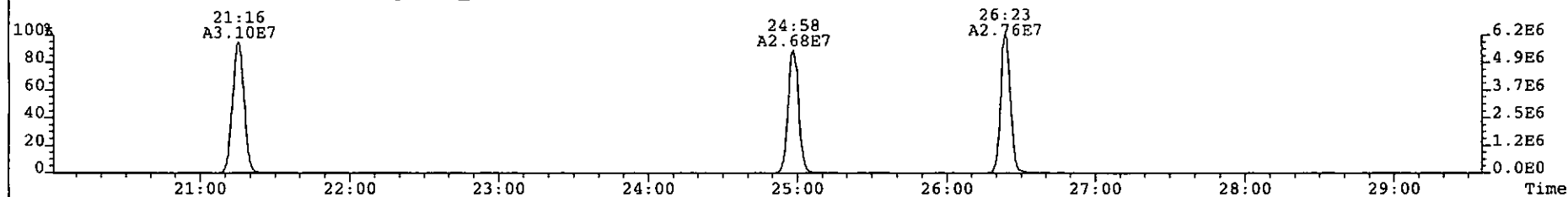
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
303.9016 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 256



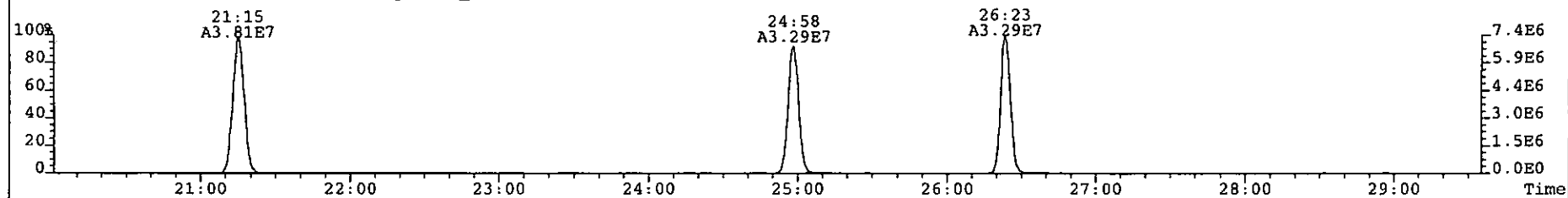
305.8987 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 298



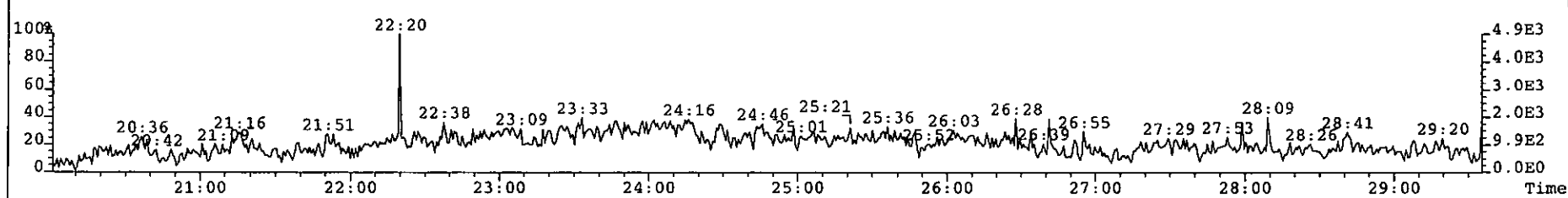
315.9419 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 382



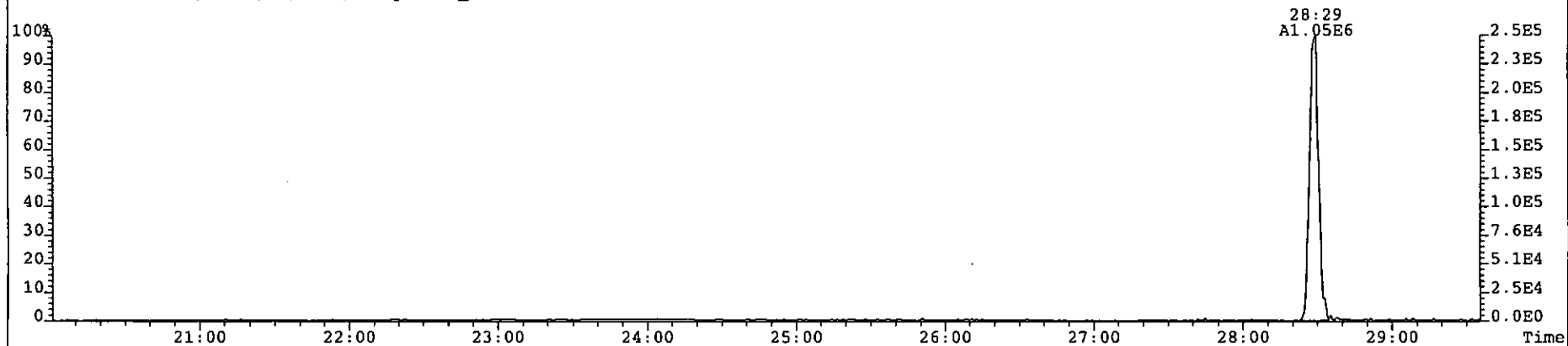
317.9389 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 494



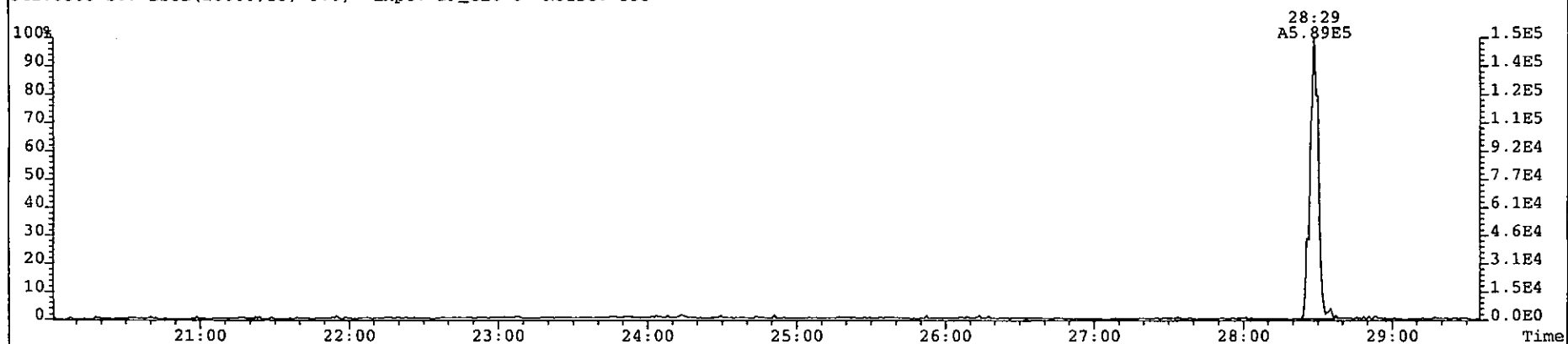
375.8364 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 325



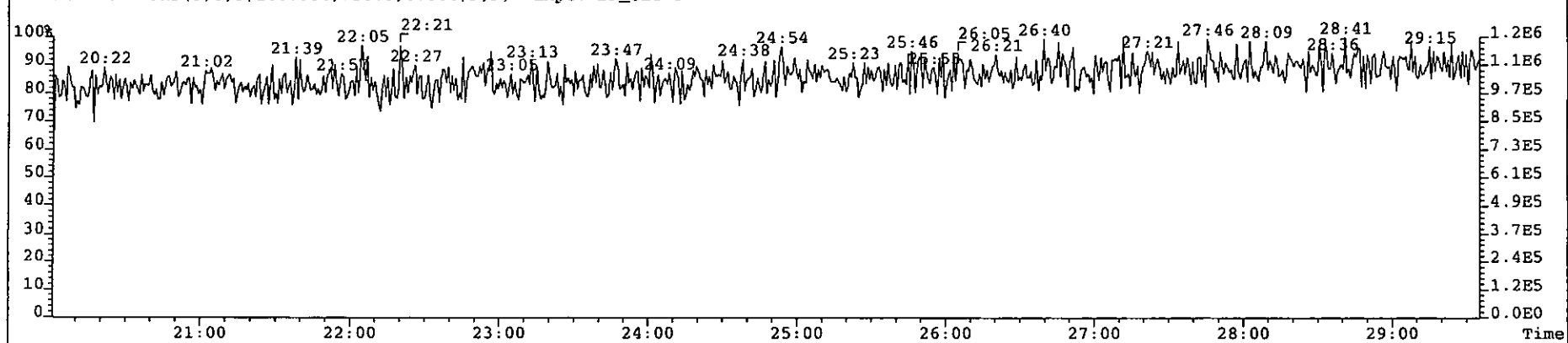
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
339.8597 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 322



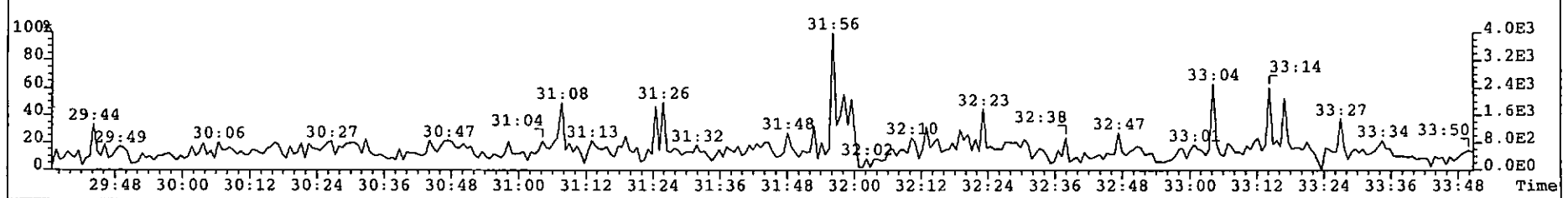
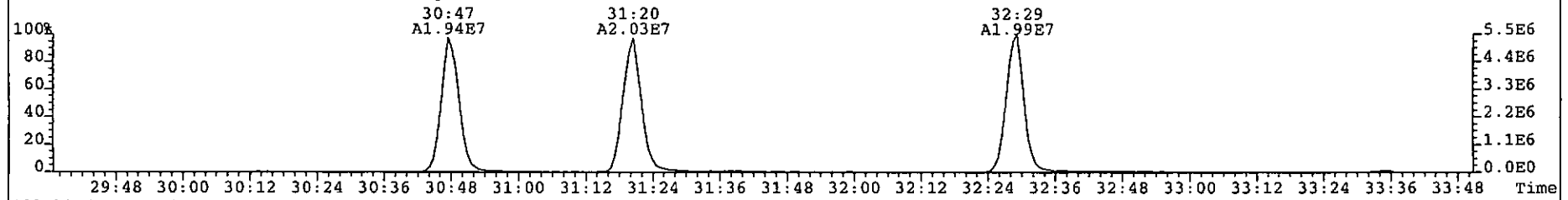
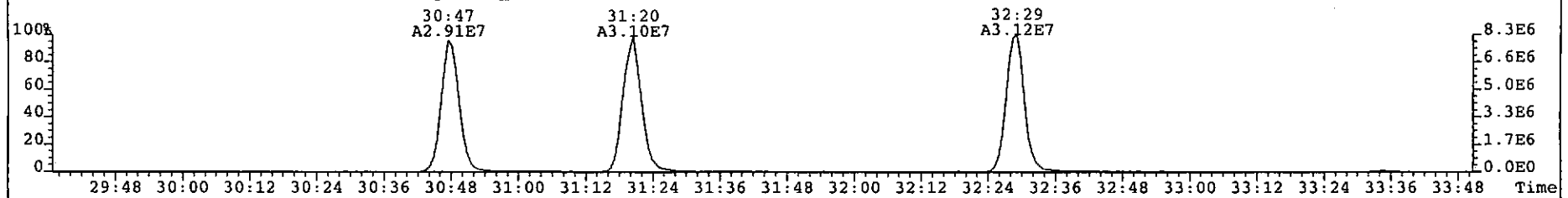
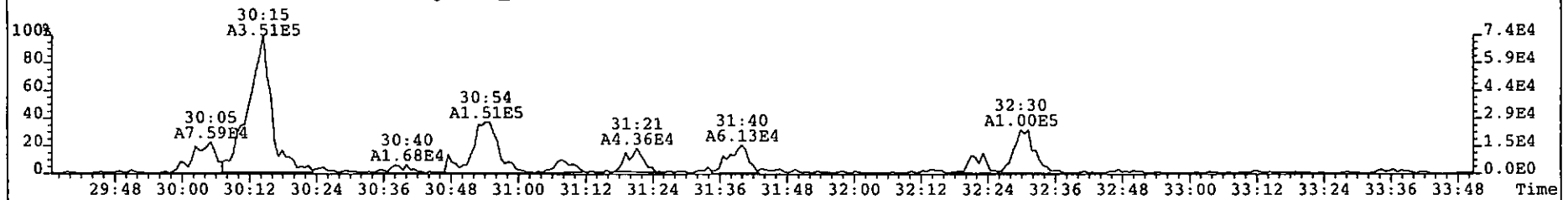
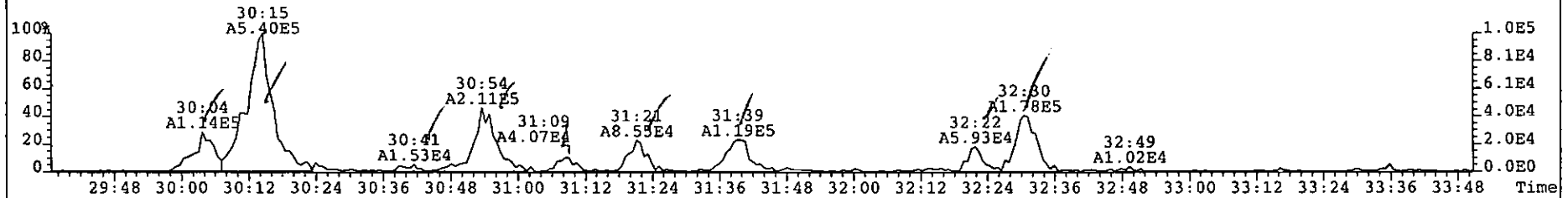
341.8568 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 335



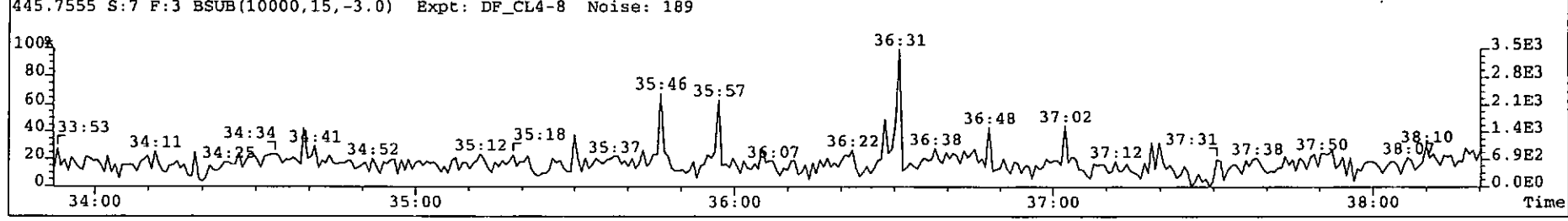
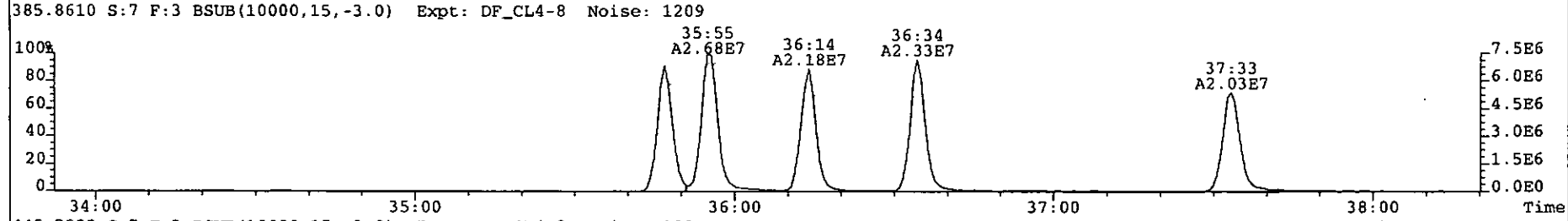
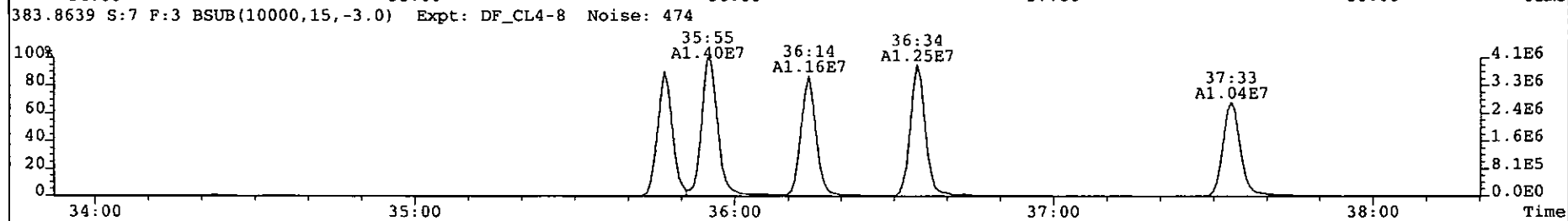
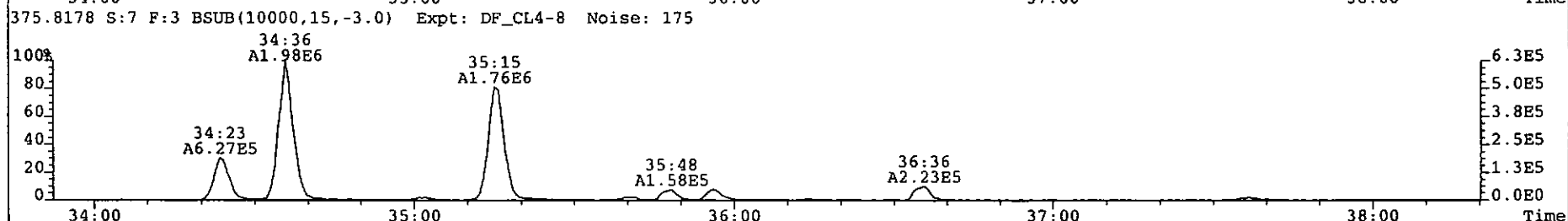
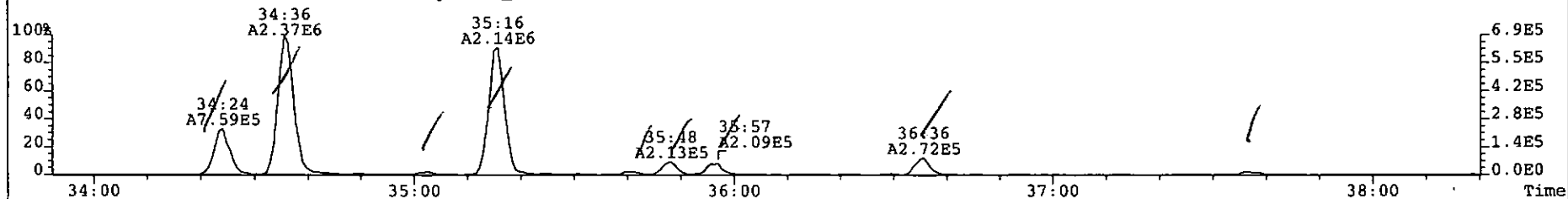
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



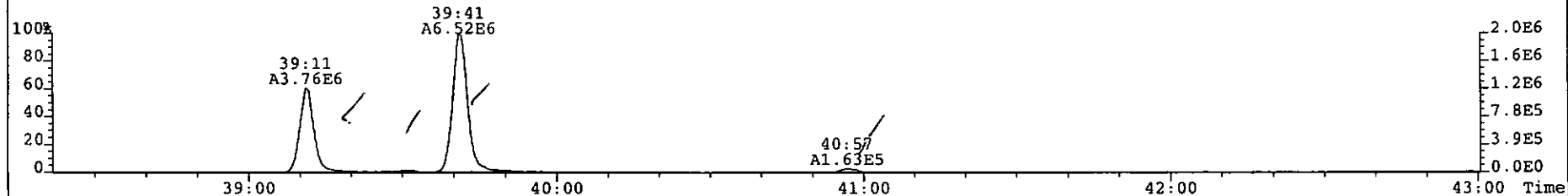
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 184



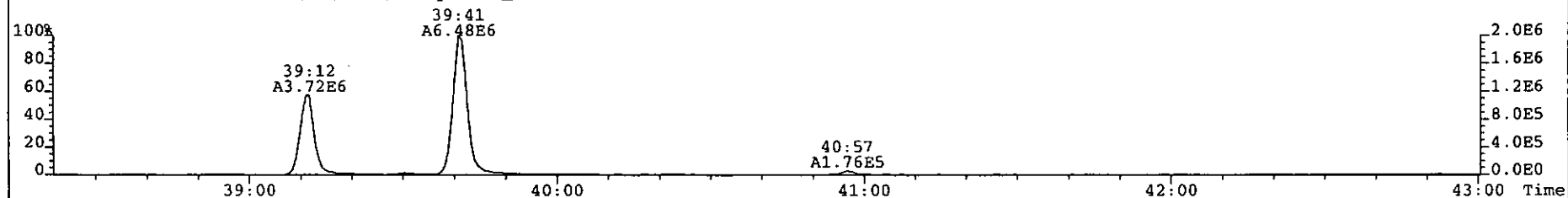
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 321



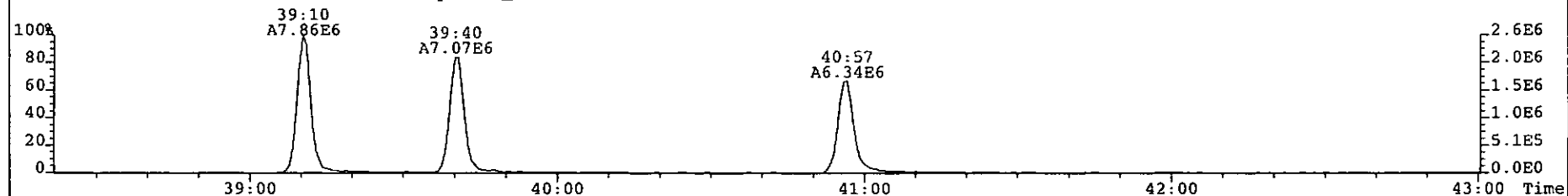
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
407.7818 S:7 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 629



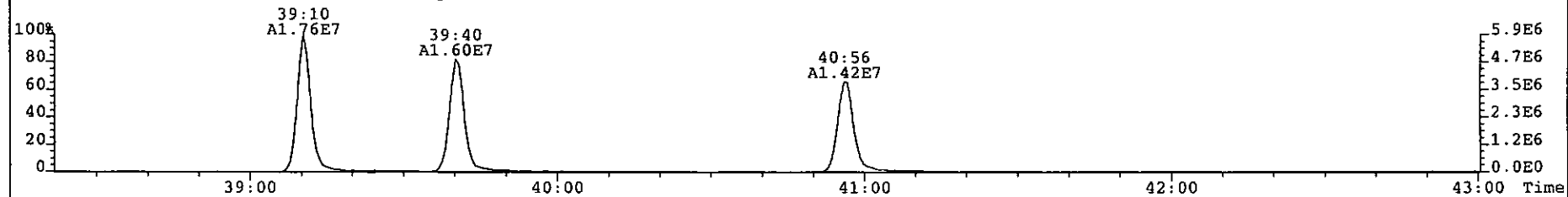
409.7788 S:7 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 754



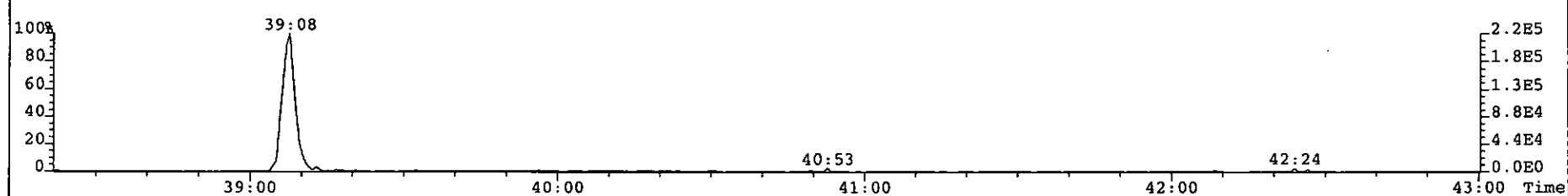
417.8253 S:7 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1217



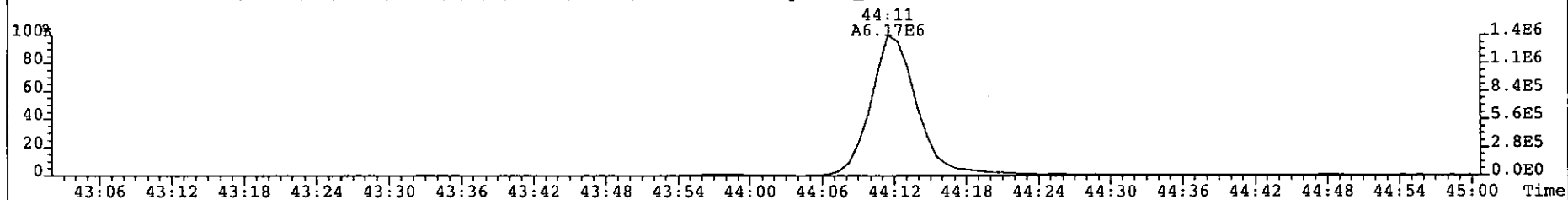
419.8220 S:7 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2813



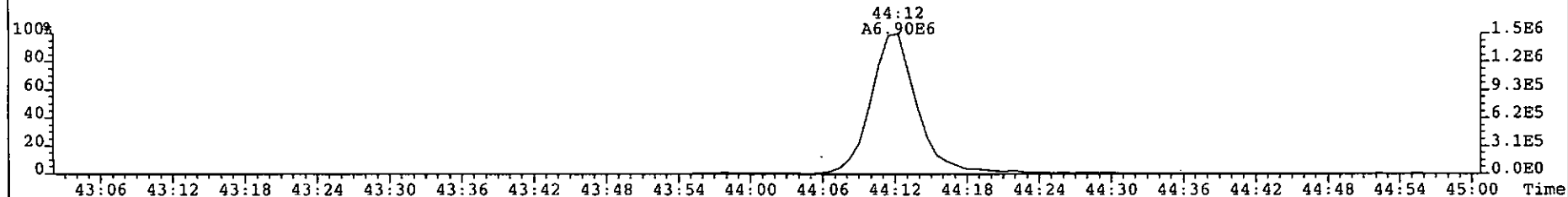
479.7165 S:7 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 213



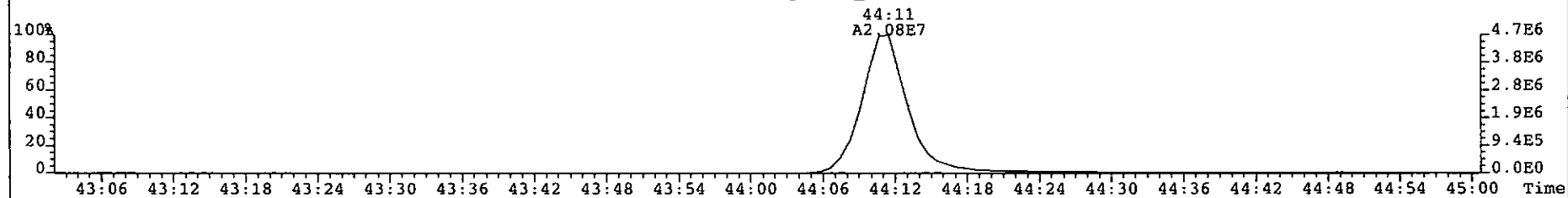
File: 090614P1 Acq: 14-JUN-2009 14:04:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1376_6875_003 BW-07-SS-090602 10.41g Vial# 50 File Text: AP DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 275



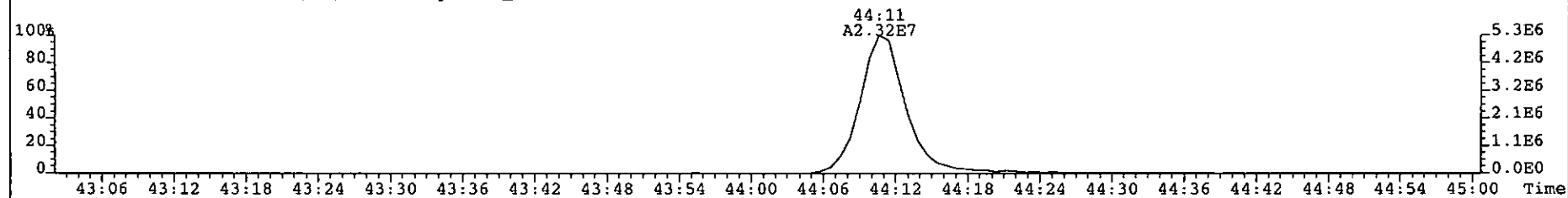
443.7398 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 761



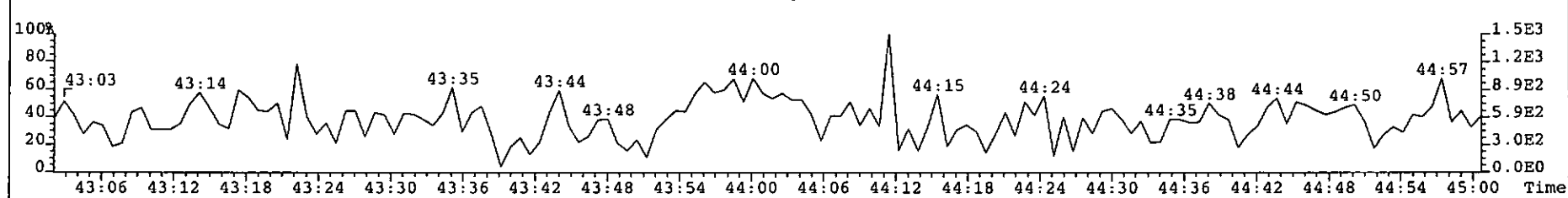
453.7830 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 209



455.7801 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 684



513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 186



1613/8290 Sample Summary


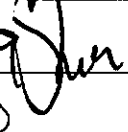
Analytical Perspectives

[Form: DF]

Client ID: BW-09-SS-090602 Filename: 090614P1 S: 8 Vial: 51 Acq: 14-JUN-09 14:53:42
 Lab ID: P1376_6875_004 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 10.36
 Sample text: P1376_6875_004 BW-09-SS-090602 10.36g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	1.56e+05	0.91 y	27:19	1.08	0.665	936	2.5	0.0766	-
Ax	1,2,3,7,8-PeCDD	2.62e+05	1.17 y	32:50	1.00	1.49	854	2.5	0.120	-
Ax	1,2,3,4,7,8-HxCDD	3.98e+05	1.26 y	36:45	1.08	2.46	2188	2.5	0.258	-
Ax	1,2,3,6,7,8-HxCDD	1.16e+06	1.25 y	36:53	0.94	7.36	2188	2.5	0.281	-
Ax	1,2,3,7,8,9-HxCDD	6.54e+05	1.13 y	37:10	0.99	3.88	2188	2.5	0.287	-
Ax	1,2,3,4,6,7,8-HpCDD	1.45e+07	1.05 y	40:22	0.97	98.0	7628	2.5	0.909	-
Ax	OCDD	6.85e+07	0.94 y	43:58	1.06	686	9493	2.5	1.98	-
Ax2	OCDD-a	4.00e+06	2.28 y	43:57	0.06	672	1800	2.5	6.29	-
Ax	2,3,7,8-TCDF	1.31e+06	0.81 y	26:25	1.05	3.45	983	2.5	0.0509	-
Ax	1,2,3,7,8-PeCDF	3.38e+05	1.69 y	31:21	0.98	1.16	3605	2.5	0.290	-
Ax	2,3,4,7,8-PeCDF	8.17e+05	1.44 y	32:30	1.01	2.80	3605	2.5	0.277	-
Ax	1,2,3,4,7,8-HxCDF	7.36e+05	1.25 y	35:47	1.22	3.11	2962	2.5	0.153	-
Ax	1,2,3,6,7,8-HxCDF	5.79e+05	1.13 y	35:56	1.15	2.18	2962	2.5	0.149	-
Ax	2,3,4,6,7,8-HxCDF	6.97e+05	1.34 y	36:35	1.13	2.86	2962	2.5	0.152	-
Ax	1,2,3,7,8,9-HxCDF	1.62e+05	1.40 y	37:36	1.12	0.785	2962	2.5	0.209	-
Ax	1,2,3,4,6,7,8-HpCDF	4.26e+06	1.01 y	39:11	1.37	19.9	1481	2.5	0.0813	-
Ax	1,2,3,4,7,8,9-HpCDF	2.50e+05	1.03 y	40:57	1.32	1.51	1481	2.5	0.120	-
Ax	OCDF	4.30e+06	0.87 y	44:12	0.94	33.6	2572	2.5	0.422	-
Ax2	OCDF-a	2.57e+05	2.71 y	44:11	0.05	35.7	813	2.5	2.37	-
ES	13C-2,3,7,8-TCDD	4.18e+07	0.83 y	27:18	0.99	162	1195	2.5	0.0910	84.2
ES	13C-1,2,3,7,8-PeCDD	3.39e+07	1.64 y	32:49	0.83	157	13655	2.5	1.24	81.2
ES	13C-1,2,3,4,7,8-HxCDD	2.89e+07	1.31 y	36:45	1.08	162	9870	2.5	1.10	84.2
ES	13C-1,2,3,6,7,8-HxCDD	3.23e+07	1.29 y	36:52	1.23	160	9870	2.5	0.968	83.1
ES	13C-1,2,3,7,8,9-HxCDD	3.27e+07	1.28 y	37:10	1.21	165	9870	2.5	0.980	85.3
ES	13C-1,2,3,4,6,7,8-HpCDD	2.94e+07	1.04 y	40:21	0.98	182	12794	2.5	1.56	94.3
ES	13C-OCDD	3.63e+07	0.83 y	43:56	0.66	336	9124	2.5	1.66	86.9
ES	13C-2,3,7,8-TCDF	7.00e+07	0.82 y	26:24	0.96	188	1818	2.5	0.102	97.3
ES	13C-1,2,3,7,8-PeCDF	5.71e+07	1.53 y	31:20	0.85	172	11458	2.5	0.722	89.1
ES	13C-2,3,4,7,8-PeCDF	5.56e+07	1.50 y	32:28	0.88	162	11458	2.5	0.697	83.7
ES	13C-1,2,3,4,7,8-HxCDF	3.75e+07	0.54 y	35:46	1.47	155	26233	2.5	2.14	80.3
ES	13C-1,2,3,6,7,8-HxCDF	4.46e+07	0.53 y	35:55	1.78	153	26233	2.5	1.78	79.2
ES	13C-2,3,4,6,7,8-HxCDF	4.17e+07	0.52 y	36:34	1.61	158	26233	2.5	1.96	81.7
ES	13C-1,2,3,7,8,9-HxCDF	3.57e+07	0.53 y	37:33	1.40	155	26233	2.5	2.25	80.4
ES	13C-1,2,3,4,6,7,8-HpCDF	3.02e+07	0.45 y	39:10	1.16	159	13774	2.5	1.43	82.1
ES	13C-1,2,3,4,7,8,9-HpCDF	2.41e+07	0.45 y	40:56	0.92	160	13774	2.5	1.80	82.7
ES	13C-OCDF	5.26e+07	0.92 y	44:11	1.04	308	18881	2.5	2.19	79.9
CS	37Cl-2,3,7,8-TCDD	1.68e+07		27:19	0.99	65.6			13.5	85.0
CS	13C-1,2,3,4,7-PeCDD	3.31e+07	1.66 y	32:18	0.77	166	13655	2.5	1.34	85.9
CS	13C-1,2,3,4,6-PeCDF	5.38e+07	1.53 y	30:47	0.79	174	11458	2.5	0.776	90.0
CS	13C-1,2,3,4,6,9-HxCDF	3.67e+07	0.54 y	36:13	1.41	158	26233	2.5	2.23	82.0
CS	13C-1,2,3,4,6,8,9-HpCDF	2.66e+07	0.44 y	39:40	0.91	178	13774	2.5	1.82	92.3
NA	n/a	*	* n	NotF>	Div0	*	4070	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.00e+07	0.84 y	26:37	-	13.8	1195	2.5	-	-
JS	13C-1,2,3,4-TCDF	7.52e+07	0.81 y	24:58	-	13.1	1818	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.59e+07	1.28 y	37:04	-	7.03	637	2.5	-	-

2009 JUN 19
 10:36
 JS

Analyst: 
 Date: 
 HS
 19 JUN 09

SS	37C1-2,3,7,8-TCDD	1.68e+07		27:19	1.00	77.5			15.6	100
SS	13C-1,2,3,4,7-PeCDD	3.31e+07	1.66 y	32:18	0.93	203	13655	2.5	2.06	105
SS	13C-1,2,3,4,6-PeCDF	5.38e+07	1.53 y	30:47	0.94	194	11458	2.5	0.969	100
SS	13C-1,2,3,4,6,9-HxCDF	3.67e+07	0.54 y	36:13	0.80	198	26233	2.5	1.90	103
SS	13C-1,2,3,4,6,8,9-HpCDF	2.66e+07	0.44 y	39:40	0.79	215	13774	2.5	1.31	111
SBS	2,4,6,8-TCDF	1.19e+06	0.74 y	22:30	1.05	3.15	983	2.5	0.0509	-
Ay	1,3,6,8-TCDD	4.50e+06	0.80 y	23:29	1.08	19.2	936	2.5	0.0766	-
Ay	1,2,3,9-TCDD	5.74e+04	0.98 y	27:10	1.08	0.244	936	2.5	0.0766	-
Ay	1,2,8,9-TCDD	*	*	NotF»	1.08	*	936	2.5	0.0766	-
Ay	1,2,4,7,9-PeCDD	2.15e+06	1.56 y	30:17	1.00	12.3	854	2.5	0.120	-
Ay	1,2,3,8,9-PeCDD	1.15e+05	1.53 y	33:17	1.00	0.654	854	2.5	0.120	-
Ay	1,2,4,6,7,9-HxCDD	2.55e+06	1.18 y	35:03	1.00	15.7	2188	2.5	0.275	-
Ay	1,2,3,4,6,7,9-HpCDD	1.88e+07	1.03 y	39:30	0.97	127	7628	2.5	0.909	-
Ay	1,3,6,8-TCDF	5.54e+05	0.81 y	21:17	1.05	1.46	983	2.5	0.0509	-
Ay	2,3,4,8-TCDF	3.91e+05	0.68 y	26:18	1.05	1.03	983	2.5	0.0509	-
Ay	1,2,8,9-TCDF	2.26e+05	0.96 y	28:29	1.05	0.596	983	2.5	0.0509	-
Ay	1,3,4,6,8-PeCDF	2.13e+06	1.79 y	28:28	1.05	5.61	1004	2.5	0.0520	-
Ay	1,2,3,8,9-PeCDF	*	*	NotF»	1.00	*	3605	2.5	0.283	-
Ay	1,2,3,4,6,8-HxCDF	9.25e+05	1.27 y	34:23	1.15	3.88	2962	2.5	0.164	-
Tot	Total Tetra-Dioxins	1.14e+07	0.80 y	23:29	1.08	48.6	936	2.5	0.0766	-
Tot	Total Penta-Dioxins	7.80e+06	1.56 y	30:17	1.00	44.5	854	2.5	0.120	-
Tot	Total Hexa-Dioxins	1.36e+07	1.18 y	35:03	1.00	83.8	2188	2.5	0.275	-
Tot	Total Hepta-Dioxins	3.33e+07	1.03 y	39:30	0.97	225	7628	2.5	0.909	-
Tot	Total Tetra-Furans	1.61e+07	0.81 y	21:17	1.05	42.4	983	2.5	0.0509	-
Tot	Total Penta-Furans	6.54e+06	1.60 y	30:02	1.00	22.4	3605	2.5	0.283	-
Tot	Total Hexa-Furans	9.41e+06	1.27 y	34:23	1.15	39.3	2962	2.5	0.164	-
Tot	Total Hepta-Furans	1.04e+07	1.01 y	39:11	1.35	52.5	1481	2.5	0.0980	-
Tot	TCDD EMPC	1.18e+07	0.80 y	23:29	1.08	50.1	936	2.5	0.0766	-
Tot	PeCDD EMPC	8.06e+06	1.56 y	30:17	1.00	46.0	854	2.5	0.120	-
Tot	HxCDD EMPC	1.36e+07	1.18 y	35:03	1.00	83.8	2188	2.5	0.275	-
Tot	HpCDD EMPC	3.33e+07	1.03 y	39:30	0.97	225	7628	2.5	0.909	-
Tot	TCDF EMPC	1.64e+07	0.81 y	21:17	1.05	43.2	983	2.5	0.0509	-
Tot	PeCDF EMPC	6.69e+06	1.60 y	30:02	1.00	22.9	3605	2.5	0.283	-
Tot	HxCDF EMPC	9.49e+06	1.27 y	34:23	1.15	39.6	2962	2.5	0.164	-
Tot	HpCDF EMPC	1.04e+07	1.01 y	39:11	1.35	52.5	1481	2.5	0.0980	-
AS	13C-1,3,6,8-TCDD	4.42e+07	0.82 y	23:27	1.09	157	1195	2.5	0.0832	81.3
AS	13C-1,3,6,8-TCDF	8.29e+07	0.80 y	21:16	1.09	195	1818	2.5	0.0898	101
DPE	HxCDFE	*	*	NotF»	-	*	-	-	-	-
DPE	HpCDFE	*	*	NotF»	-	*	-	-	-	-
DPE	OCDFE	*	*	NotF»	-	*	-	-	-	-
DPE	NCDFE	*	*	NotF»	-	*	-	-	-	-
DPE	DCDFE	*	*	NotF»	-	*	-	-	-	-
LMC	Fn1 check mass	*	*	NotF»	-	*	-	-	-	-
LMC	Fn2 check mass	*	*	NotF»	-	*	-	-	-	-
LMC	Fn3 check mass	*	*	NotF»	-	*	-	-	-	-
LMC	Fn4 check mass	*	*	NotF»	-	*	-	-	-	-
LMC	Fn5 check mass	*	*	NotF»	-	*	-	-	-	-

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 15 Checkcode: 1092
 File Name: 090614P1 Sample #: 8 Sample text: P1376_6875_004 BW-09-SS-090602 10.36g

Acquired: 14-JUN-09 14:53:42 Processed: 15-JUN-09 09:15:12

Total Conc.: 50.122 Unnamed Conc.: 30.051 Homolog count: 15

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
23:20	2.001e+06	n	2.497e+06	n	0.80	y	4.498e+06	4.498e+06	5.36e+02	y	19.2	1,3,6,8-TCDD
23:52	1.359e+06	n	1.672e+06	n	0.81	y	3.031e+06	3.031e+06	3.65e+02	y	12.9	
24:20	6.615e+04	n	7.498e+04	n	0.88	y	1.411e+05	1.411e+05	1.59e+01	y	0.601	
25:09	3.324e+05	n	3.910e+05	n	0.85	y	7.234e+05	7.234e+05	8.69e+01	y	3.08	
25:24	1.897e+05	n	2.284e+05	n	0.83	y	4.180e+05	4.180e+05	4.68e+01	y	1.78	
25:36	2.242e+05	n	3.121e+05	n	0.72	y	5.364e+05	5.364e+05	7.92e+01	y	2.28	
25:48	6.267e+04	n	8.653e+04	n	0.72	y	1.492e+05	1.492e+05	1.83e+01	y	0.636	
26:04	1.891e+04	n	2.722e+04	n	0.69	y	4.614e+04	4.614e+04	6.56e+00	y	0.197	
26:14	7.088e+04	n	8.487e+04	n	0.84	y	1.557e+05	1.557e+05	1.91e+01	y	0.663	
26:39	4.436e+05	n	5.691e+05	n	0.78	y	1.013e+06	1.013e+06	1.37e+02	y	4.31	
26:47	2.494e+04	n	3.834e+04	n	0.65	n	6.328e+04	5.732e+04	9.24e+00	y	0.244	
27:02	3.199e+05	n	3.839e+05	n	0.83	y	7.038e+05	7.038e+05	7.77e+01	y	3.00	
27:10	3.167e+04	n	3.242e+04	n	0.98	n	6.409e+04	5.738e+04	6.94e+00	y	0.244	1,2,3,9-TCDD
27:19	8.067e+04	n	8.820e+04	n	0.91	n	1.689e+05	1.561e+05	2.24e+01	y	0.665	2,3,7,8-TCDD
27:40	5.536e+04	n	4.469e+04	n	1.24	n	1.001e+05	7.910e+04	1.26e+01	y	0.337	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 15 Checkcode: 1092
 File Name: 090614P1 Sample #: 8 Sample text: P1376_6875_004 BW-09-SS-090602 10.36g

Acquired: 14-JUN-09 14:53:42 Processed: 15-JUN-09 09:15:12

Total Conc.: 45.958 Unnamed Conc.: 31.552 Homolog count: 10

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
30:17	1.309e+06	n	8.402e+05	n	1.56	y	2.149e+06	2.149e+06	2.09e+02	y	12.3	1,2,4,7,9-PeCDD
30:48	1.255e+05	n	9.510e+04	n	1.32	y	2.206e+05	2.206e+05	2.56e+01	y	1.26	
31:23	1.286e+06	n	8.160e+05	n	1.58	y	2.102e+06	2.102e+06	2.51e+02	y	12.0	
31:35	1.821e+05	n	1.277e+05	n	1.43	y	3.099e+05	3.099e+05	4.29e+01	y	1.77	
31:41	1.057e+06	n	6.569e+05	n	1.61	y	1.714e+06	1.714e+06	2.16e+02	y	9.78	
31:57	2.022e+05	n	1.341e+05	n	1.51	y	3.362e+05	3.362e+05	3.05e+01	y	1.92	
32:20	4.600e+05	n	2.900e+05	n	1.59	y	7.500e+05	7.500e+05	9.85e+01	y	4.28	
32:50	1.592e+05	n	1.360e+05	n	1.17	n	2.952e+05	2.620e+05	4.39e+01	y	1.49	1,2,3,7,8-PeCDD
32:56	6.149e+04	n	3.772e+04	n	1.63	y	9.921e+04	9.921e+04	1.20e+01	y	0.566	
33:17	6.930e+04	n	4.544e+04	n	1.53	y	1.147e+05	1.147e+05	1.35e+01	y	0.654	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 15 Checkcode: 1092
 File Name: 090614P1 Sample #: 8 Sample text: P1376_6875_004 BW-09-SS-090602 10.36g

Acquired: 14-JUN-09 14:53:42 Processed: 15-JUN-09 09:15:12

Total Conc.: 83.755 Unnamed Conc.: 54.390 Homolog count: 8

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
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File Name: 090614P1 Sample #: 8 Sample text: P1376_6875_004 BW-09-SS-090602 10.36g

Acquired: 14-JUN-09 14:53:42 Processed: 15-JUN-09 09:15:12

Total Conc.: 22.904 Unnamed Conc.: 18.947 Homolog count: 12

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
30:02	5.019e+05	y	3.145e+05	y	1.60	y	8.164e+05	8.164e+05	1.90e+01	y	2.80
30:13	1.298e+06	y	8.715e+05	y	1.49	y	2.169e+06	2.169e+06	4.12e+01	y	7.43
30:24	4.801e+04	y	3.096e+04	y	1.55	y	7.898e+04	7.898e+04	2.71e+00	y	0.271
30:39	6.893e+04	n	5.852e+04	y	1.18	n	1.274e+05	1.134e+05	3.93e+00	y	0.388
30:48	9.436e+04	y	5.849e+04	y	1.61	y	1.528e+05	1.528e+05	5.37e+00	y	0.524
30:54	5.136e+05	y	3.353e+05	y	1.53	y	8.489e+05	8.489e+05	1.89e+01	y	2.91
31:08	1.149e+05	n	7.724e+04	n	1.49	y	1.922e+05	1.922e+05	6.48e+00	y	0.658
31:21	2.124e+05	n	1.255e+05	n	1.69	y	3.378e+05	3.378e+05	8.80e+00	y	1.16 1,2,3,7,8-PeCDF
31:38	3.902e+05	y	2.533e+05	n	1.54	y	6.435e+05	6.435e+05	1.41e+01	y	2.20
32:14	1.874e+04	y	1.722e+04	n	1.09	n	3.597e+04	3.084e+04	1.94e+00	n	0.106
32:21	2.859e+05	y	1.997e+05	y	1.43	y	4.856e+05	4.856e+05	1.78e+01	y	1.66
32:30	4.830e+05	y	3.345e+05	n	1.44	y	8.175e+05	8.175e+05	2.43e+01	y	2.80 2,3,4,7,8-PeCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HxCDF EMPC Function: 3 Run #: 15 Checkcode: 1092
 File Name: 090614P1 Sample #: 8 Sample text: P1376_6875_004 BW-09-SS-090602 10.36g

Acquired: 14-JUN-09 14:53:42 Processed: 15-JUN-09 09:15:12

Total Conc.: 39.623 Unnamed Conc.: 26.811 Homolog count: 13

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:23	5.169e+05	n	4.082e+05	n	1.27	y	9.251e+05	9.251e+05	4.28e+01	y	3.88 1,2,3,4,6,8-HxCDF
34:35	1.690e+06	n	1.388e+06	n	1.22	y	3.078e+06	3.078e+06	1.33e+02	y	12.9
34:49	4.362e+04	n	1.729e+04	n	2.52	n	6.091e+04	3.874e+04	1.68e+00	n	0.163
35:01	8.475e+04	n	7.259e+04	n	1.17	y	1.573e+05	1.573e+05	6.48e+00	y	0.660
35:15	1.422e+06	n	1.129e+06	n	1.26	y	2.551e+06	2.551e+06	1.21e+02	y	10.7
35:40	2.139e+05	n	1.667e+05	n	1.28	y	3.806e+05	3.806e+05	1.66e+01	y	1.60
35:47	4.088e+05	n	3.276e+05	n	1.25	y	7.365e+05	7.365e+05	3.26e+01	y	3.11 1,2,3,4,7,8-HxCDF
35:56	3.076e+05	n	2.718e+05	n	1.13	y	5.794e+05	5.794e+05	2.90e+01	y	2.18 1,2,3,6,7,8-HxCDF
36:06	2.435e+04	n	2.514e+04	n	0.97	n	4.949e+04	4.399e+04	2.27e+00	n	0.185
36:14	4.502e+04	n	3.736e+04	n	1.20	y	8.238e+04	8.238e+04	3.69e+00	y	0.346
36:22	3.259e+04	n	2.429e+04	n	1.34	y	5.688e+04	5.688e+04	2.72e+00	y	0.239
36:35	3.988e+05	n	2.984e+05	n	1.34	y	6.972e+05	6.972e+05	3.24e+01	y	2.86 2,3,4,6,7,8-HxCDF
37:36	9.439e+04	n	6.746e+04	n	1.40	y	1.619e+05	1.619e+05	4.94e+00	y	0.785 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDF EMPC Function: 4 Run #: 15 Checkcode: 1092
 File Name: 090614P1 Sample #: 8 Sample text: P1376_6875_004 BW-09-SS-090602 10.36g

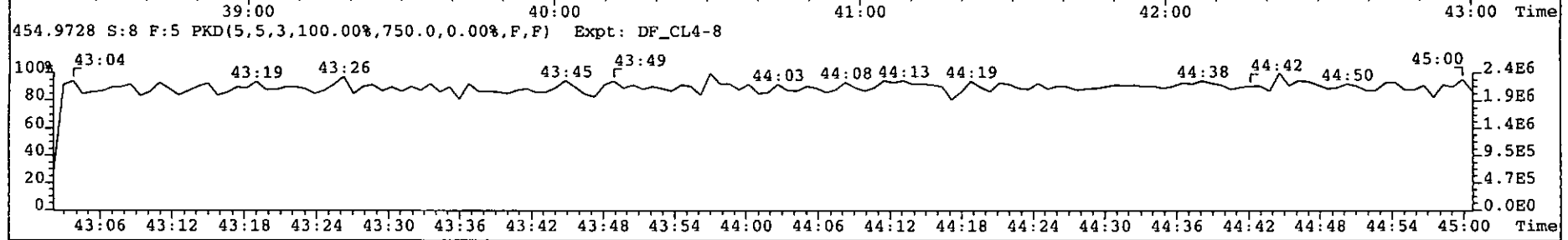
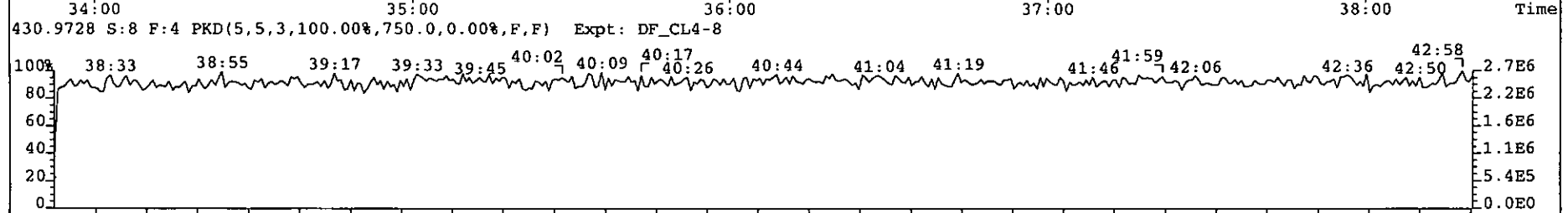
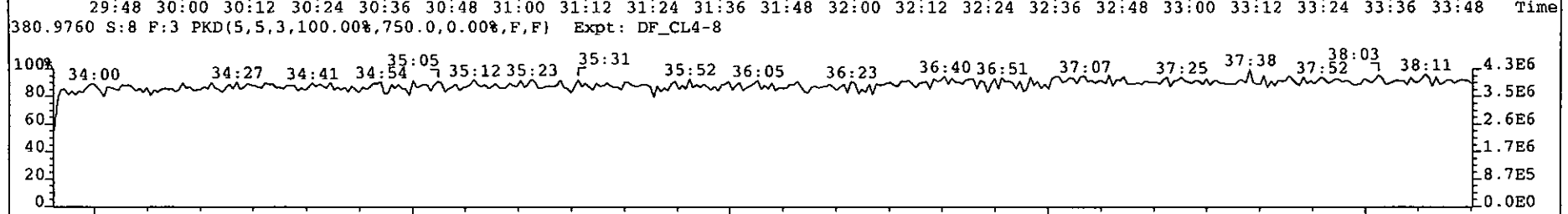
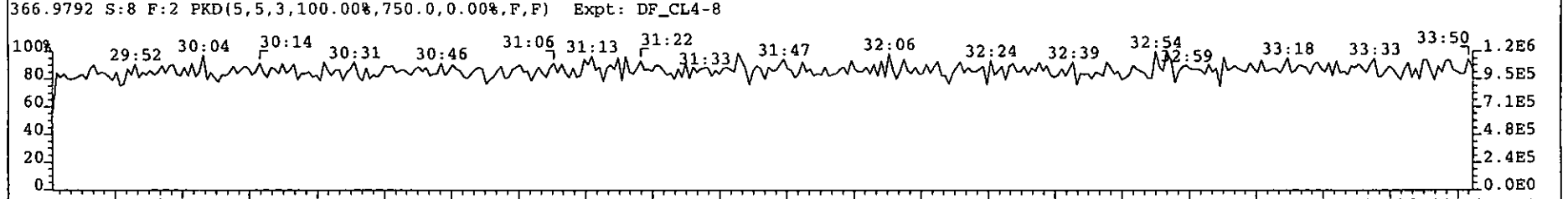
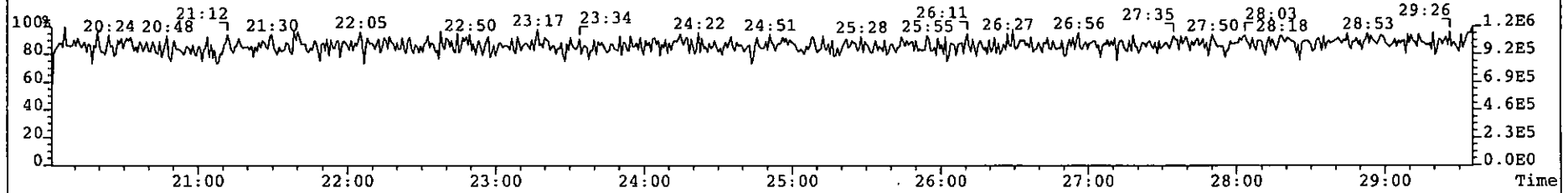
Acquired: 14-JUN-09 14:53:42 Processed: 15-JUN-09 09:15:12

Total Conc.: 52.514 Unnamed Conc.: 31.078 Homolog count: 4

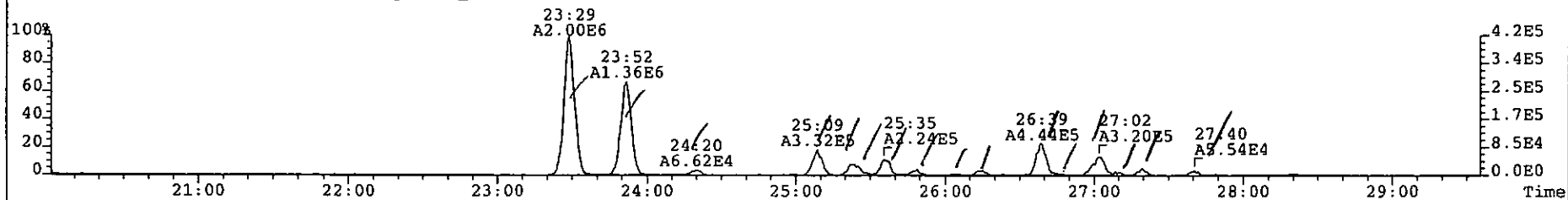
RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:11	2.138e+06	n	2.119e+06	n	1.01	y	4.257e+06	4.257e+06	4.57e+02	y	19.9 1,2,3,4,6,7,8-HpCDF
39:30	1.102e+05	n	9.792e+04	n	1.13	y	2.081e+05	2.081e+05	2.29e+01	y	1.10

39:41	2.852e+06	n	2.829e+06	n	1.01	y	5.681e+06	5.681e+06	5.79e+02	y	30.0
40:57	1.270e+05	n	1.228e+05	n	1.03	y	2.498e+05	2.498e+05	2.65e+01	y	1.51 1,2,3,4,7,8,9-HpCDF

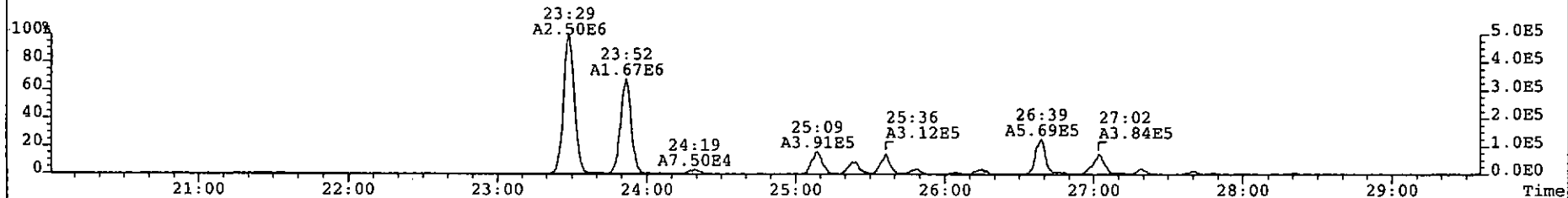
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
316.9824 S:8 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



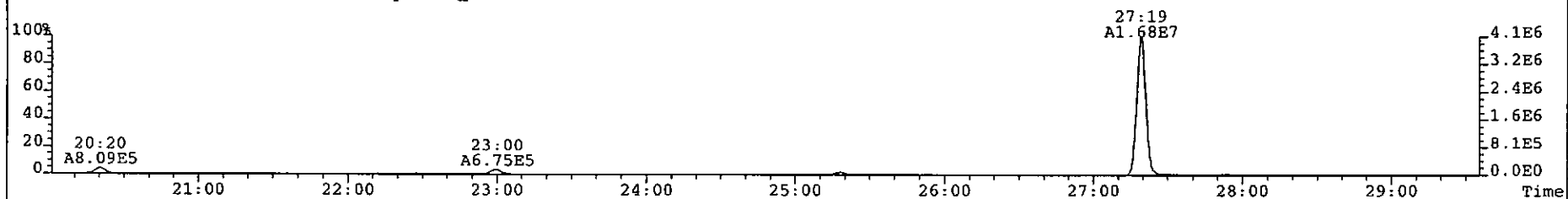
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
319.8965 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 251



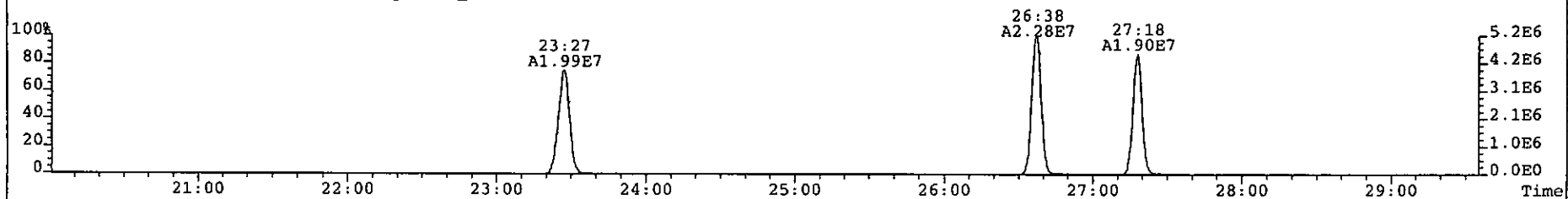
321.8936 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 291



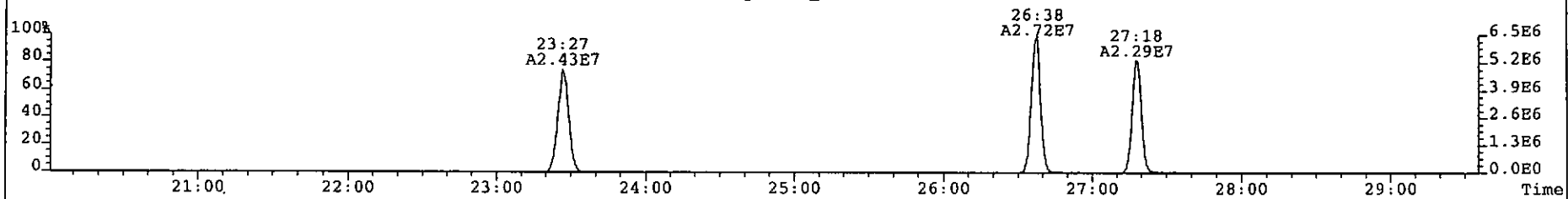
327.8850 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 256



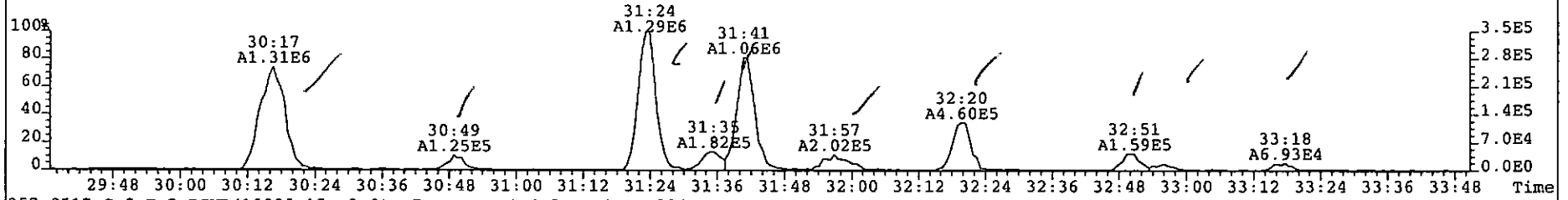
331.9368 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 230



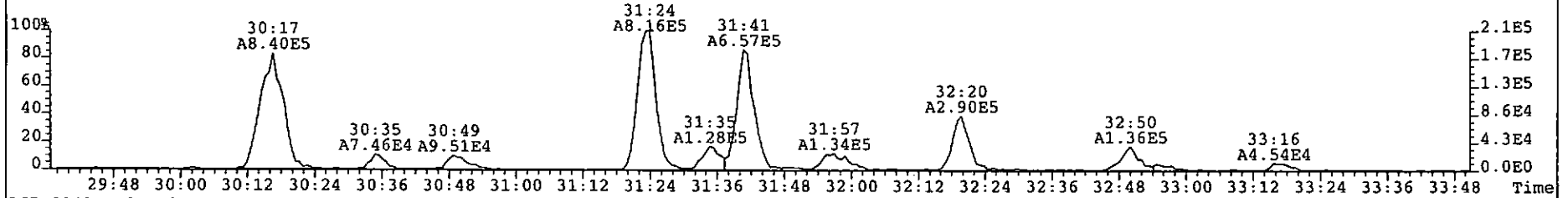
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 221



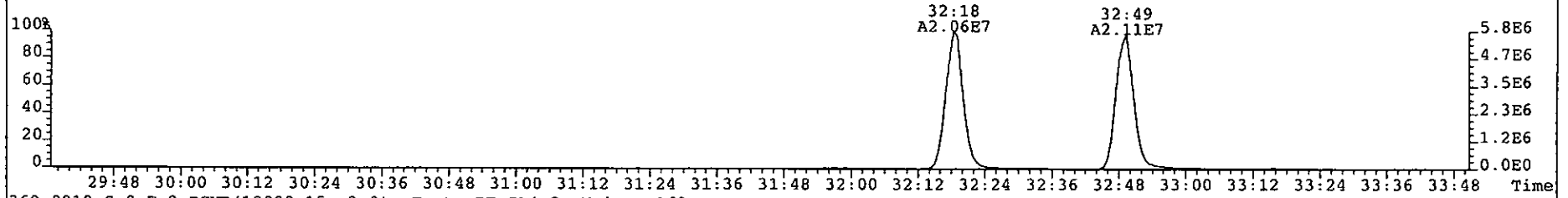
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
355.8546 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 292



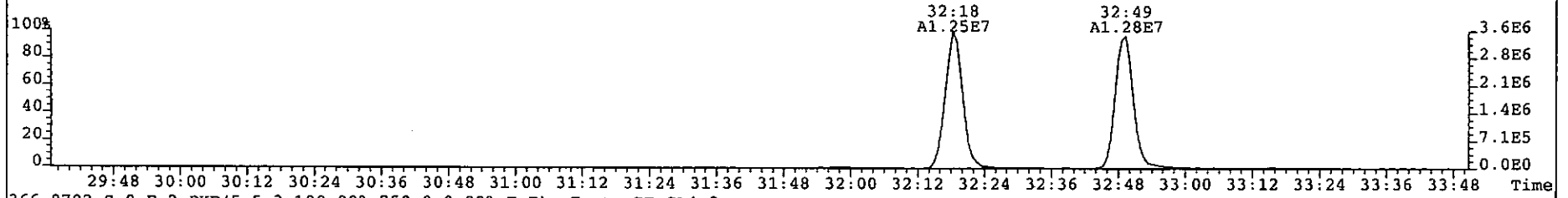
357.8517 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 224



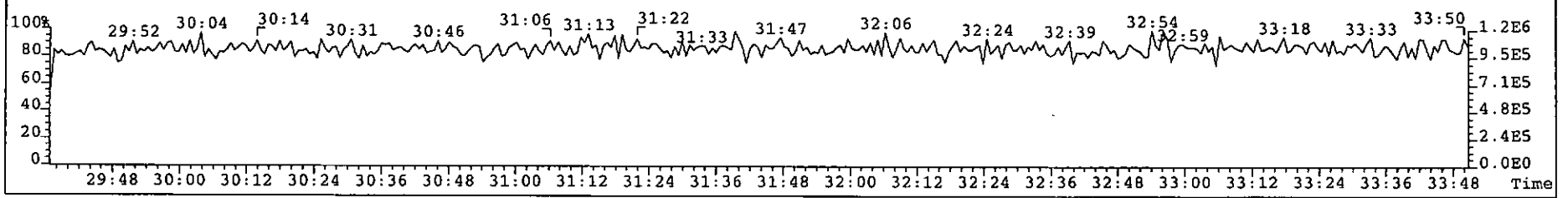
367.8949 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 188



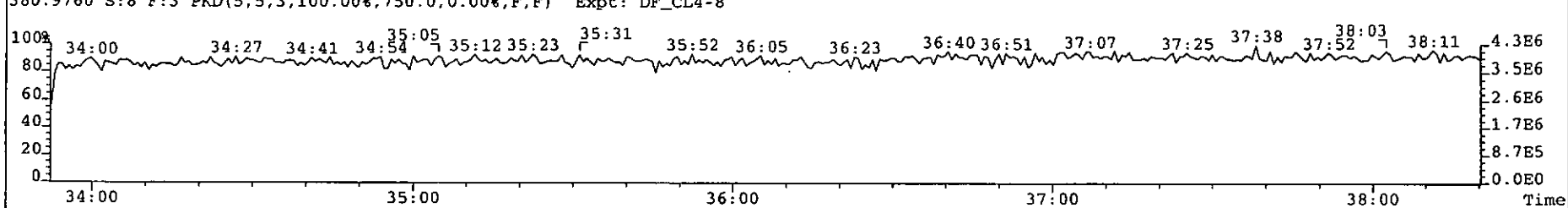
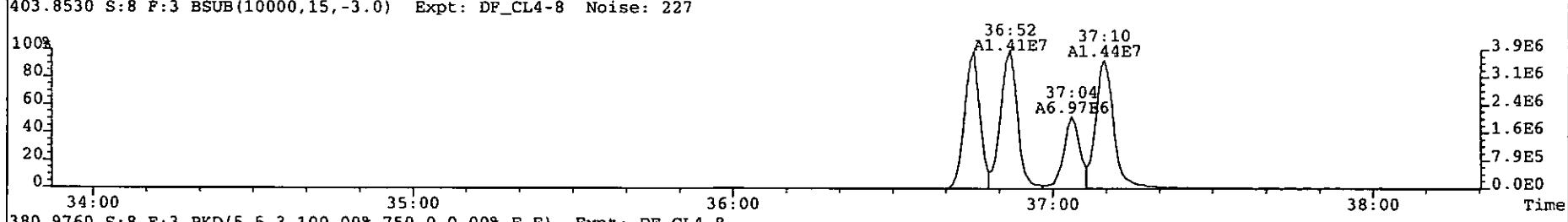
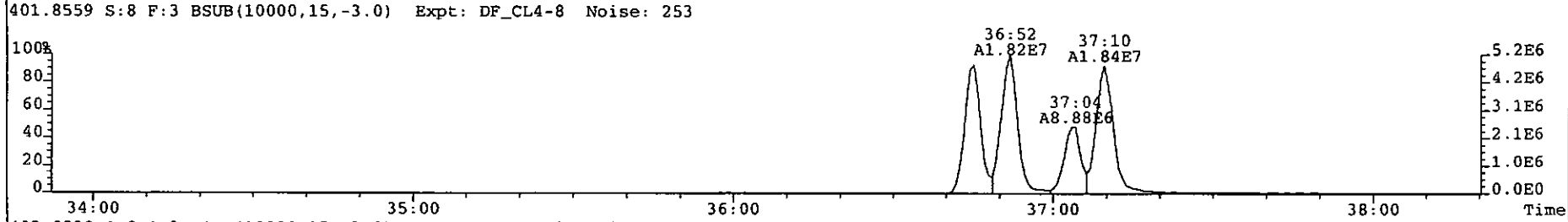
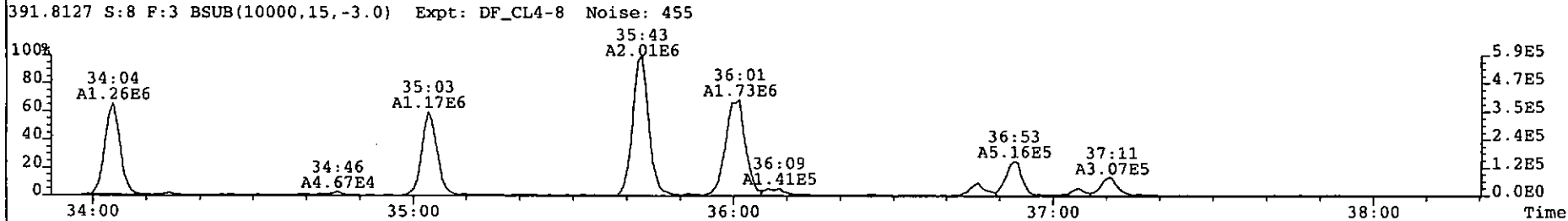
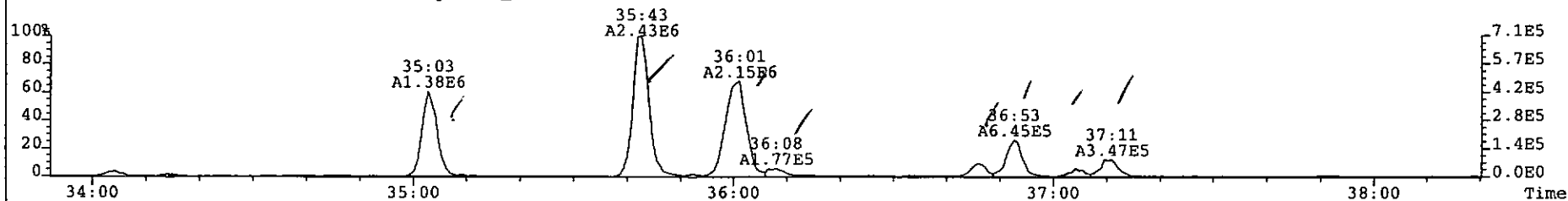
369.8919 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 169



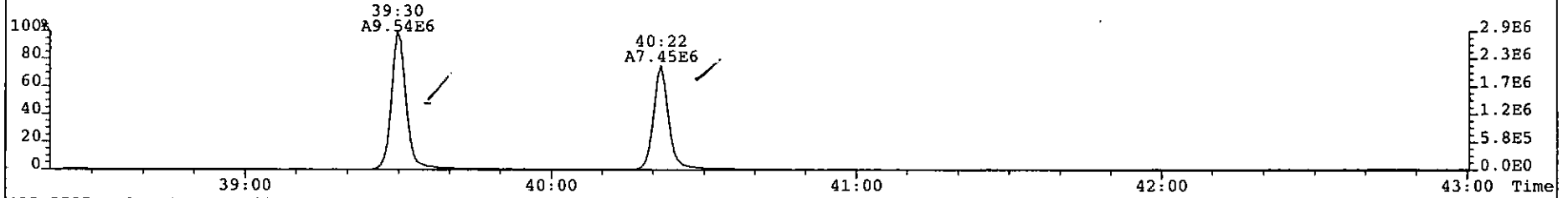
366.9792 S:8 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



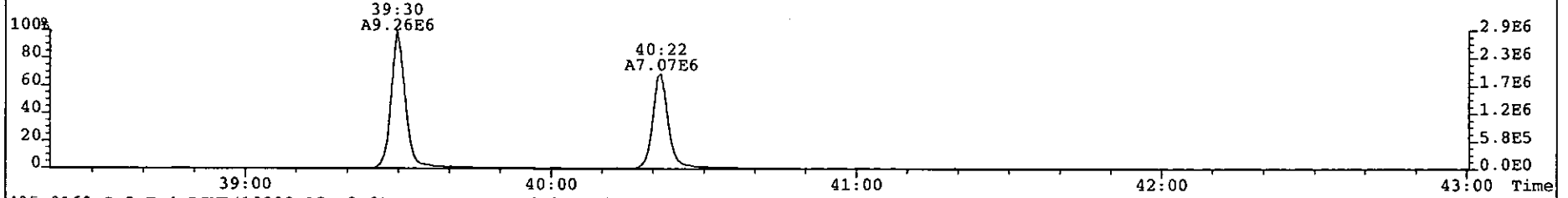
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 624



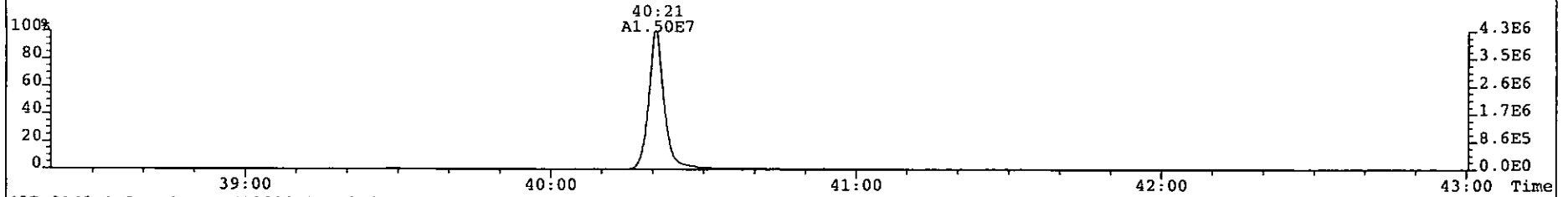
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
423.7767 S:8 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1600



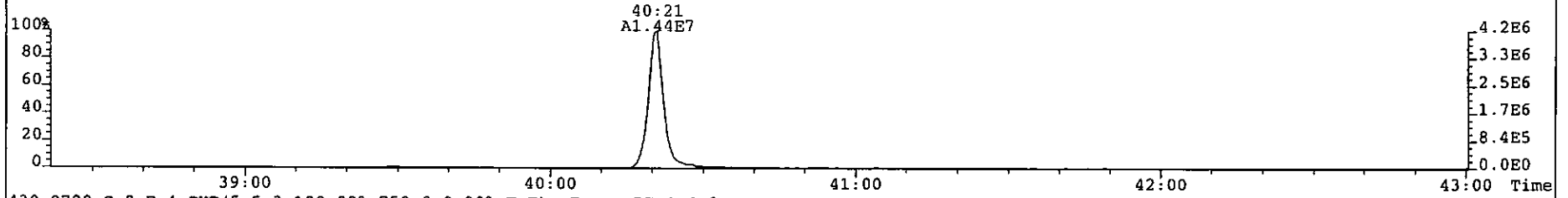
425.7737 S:8 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1786



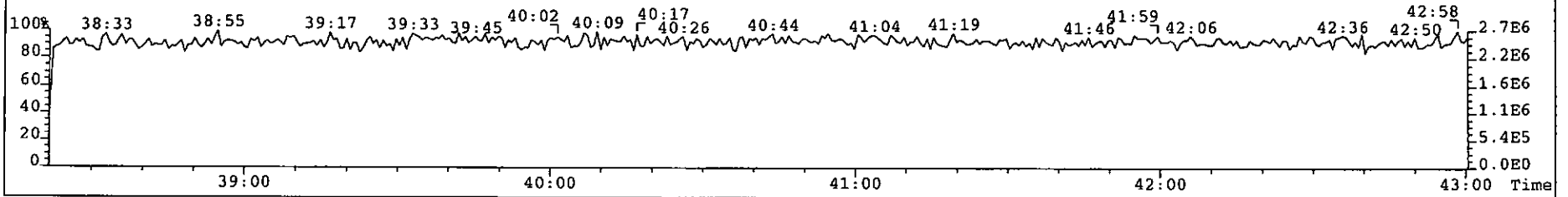
435.8169 S:8 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1207



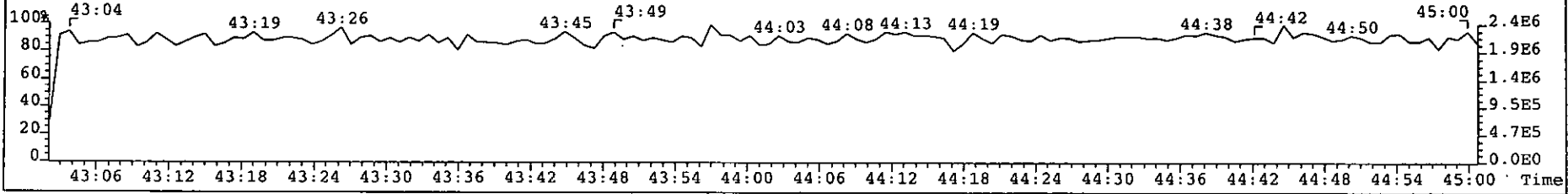
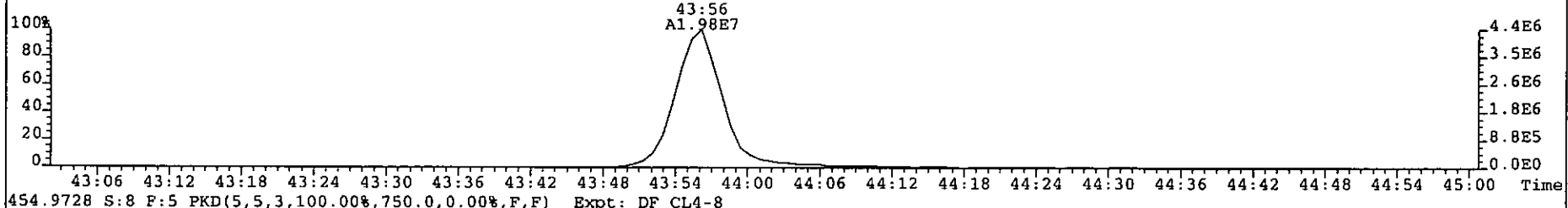
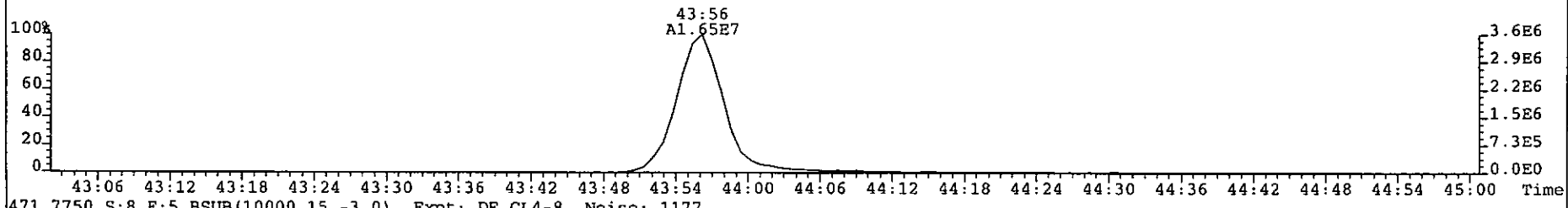
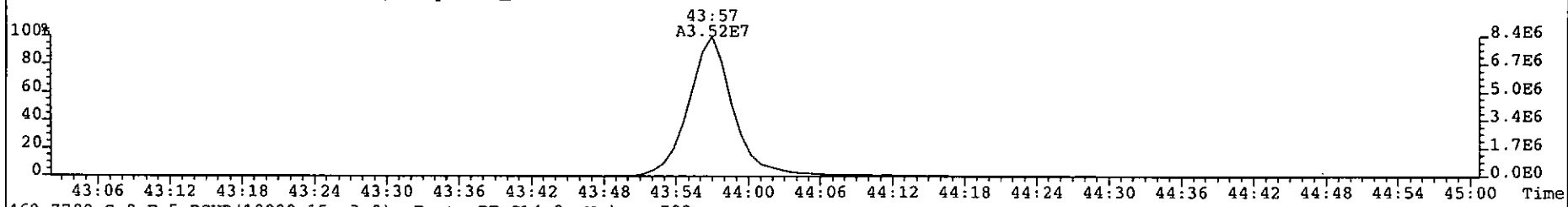
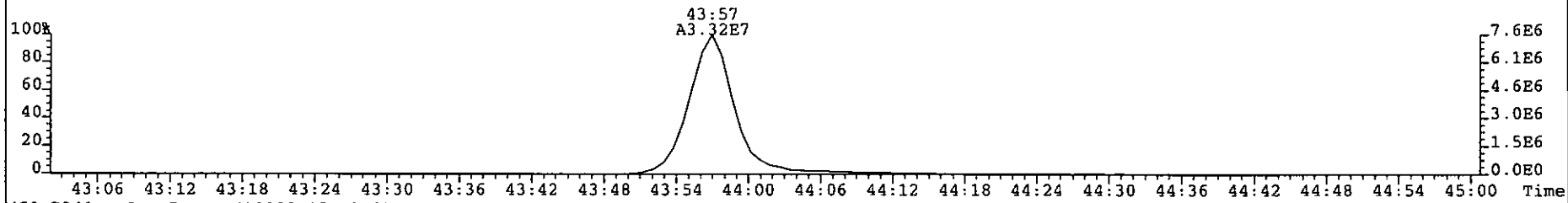
437.8140 S:8 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1368



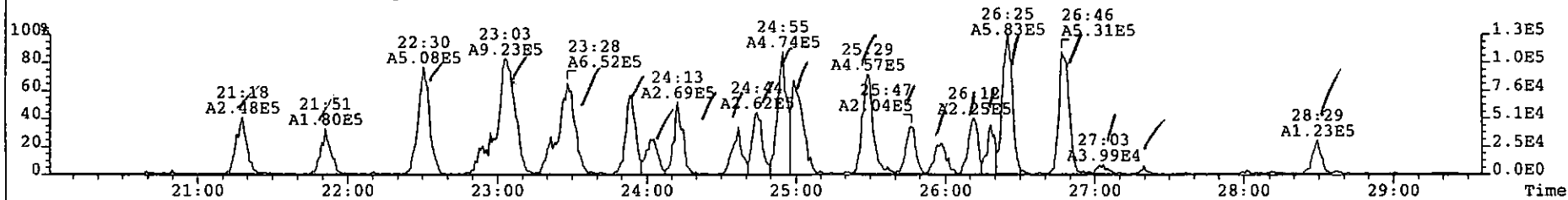
430.9728 S:8 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



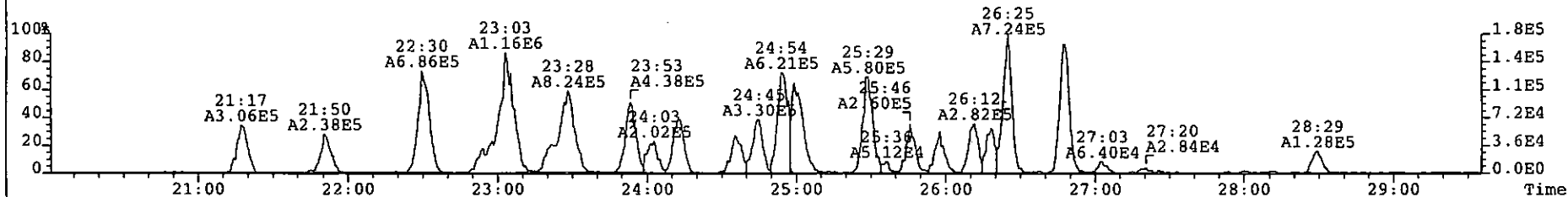
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 584



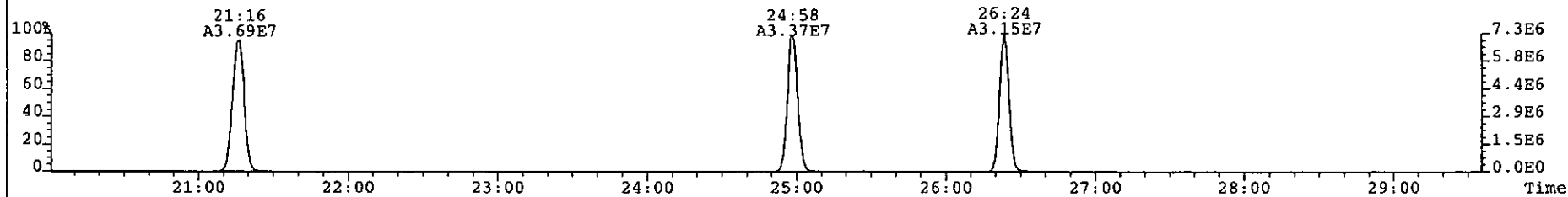
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
303.9016 S:8 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 234



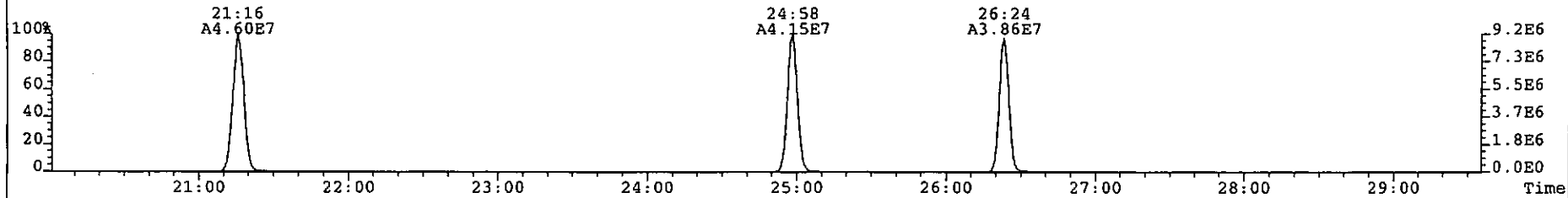
305.8987 S:8 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 314



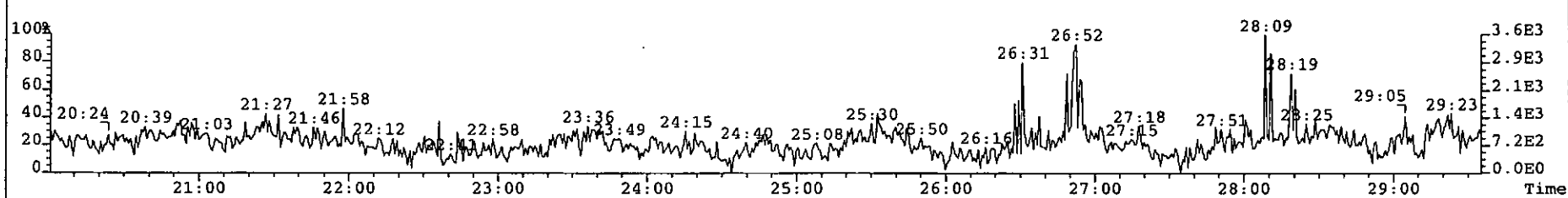
315.9419 S:8 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 248



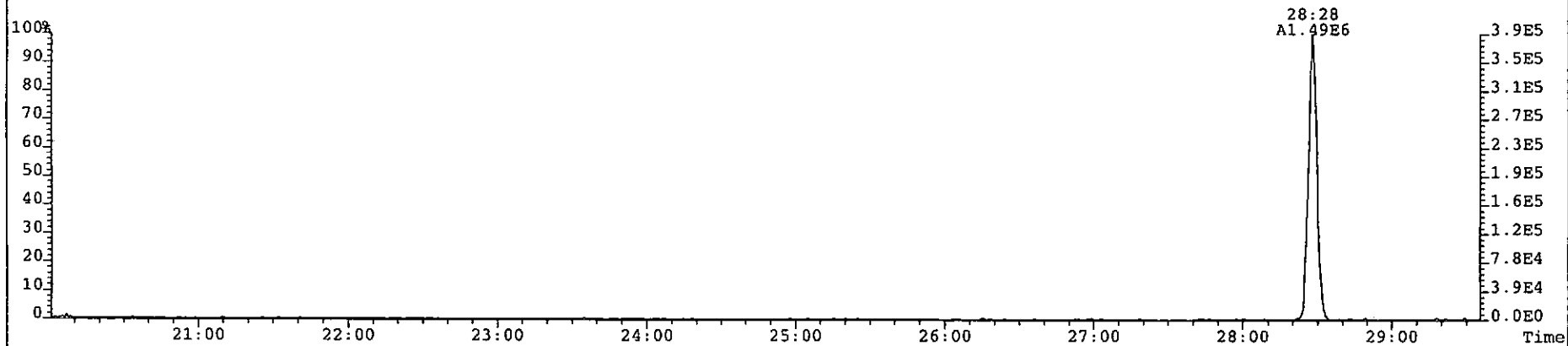
317.9389 S:8 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 220



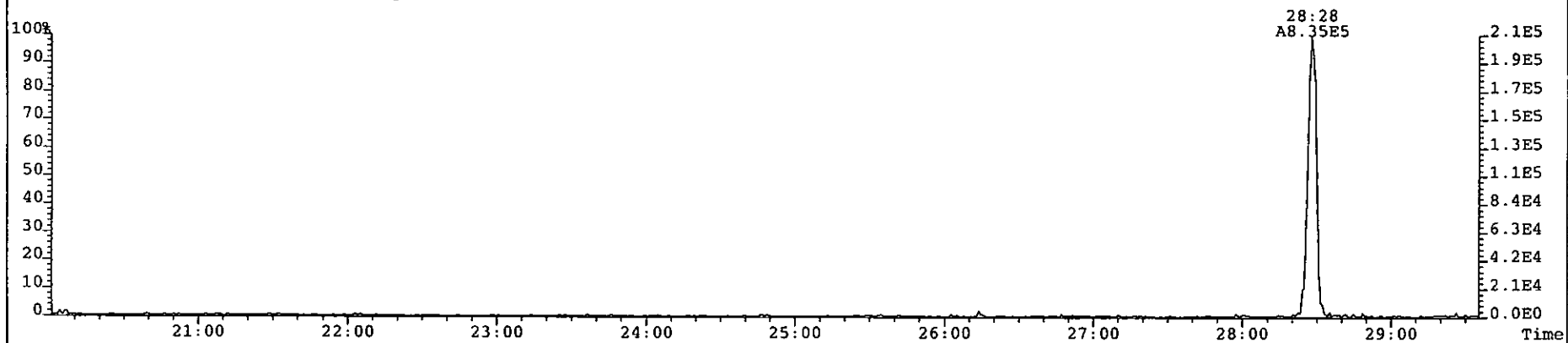
375.8364 S:8 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 247



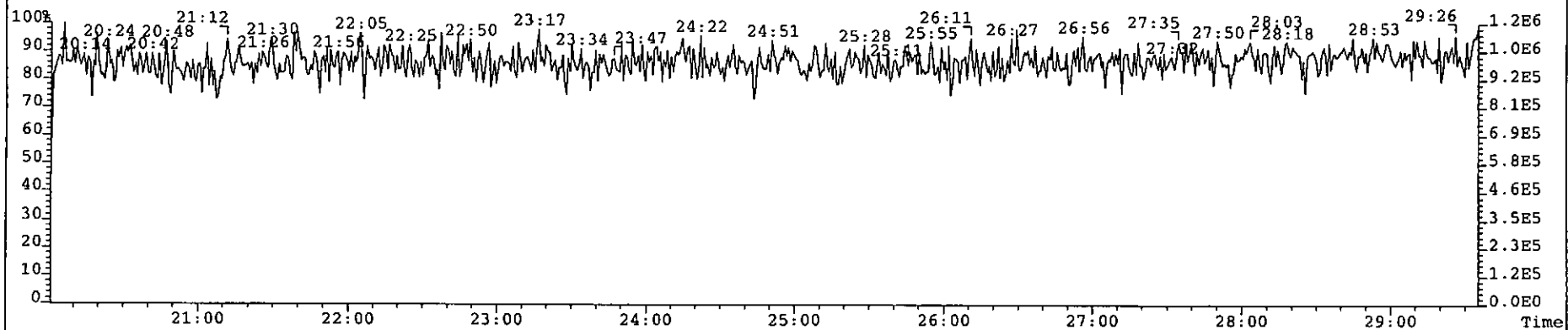
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
339.8597 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 250



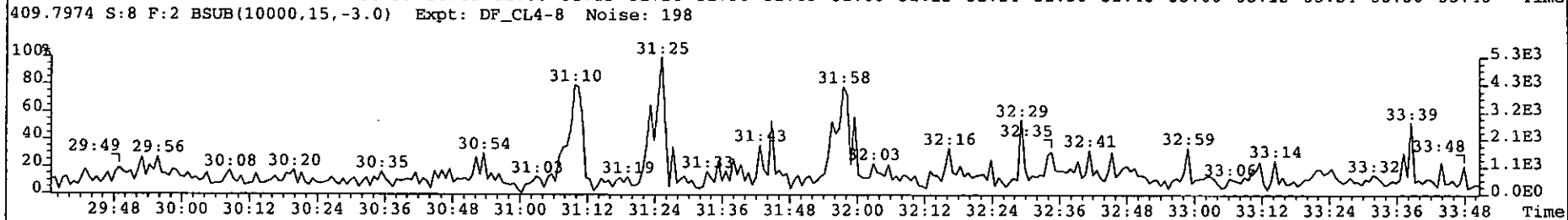
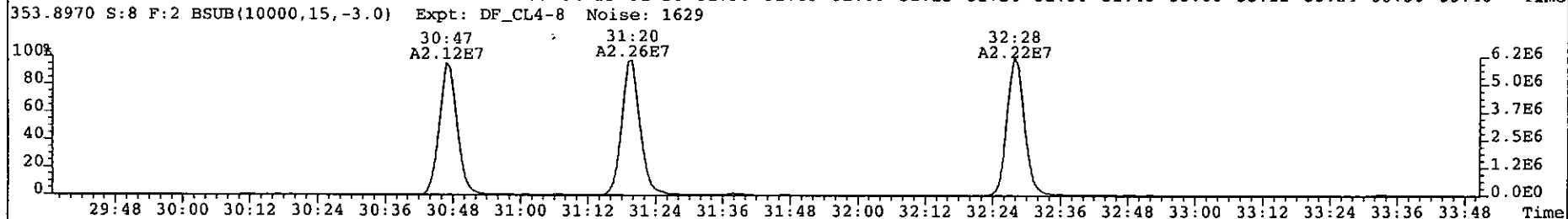
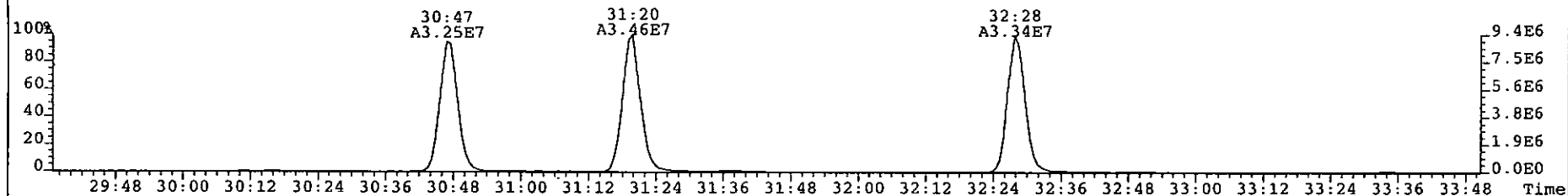
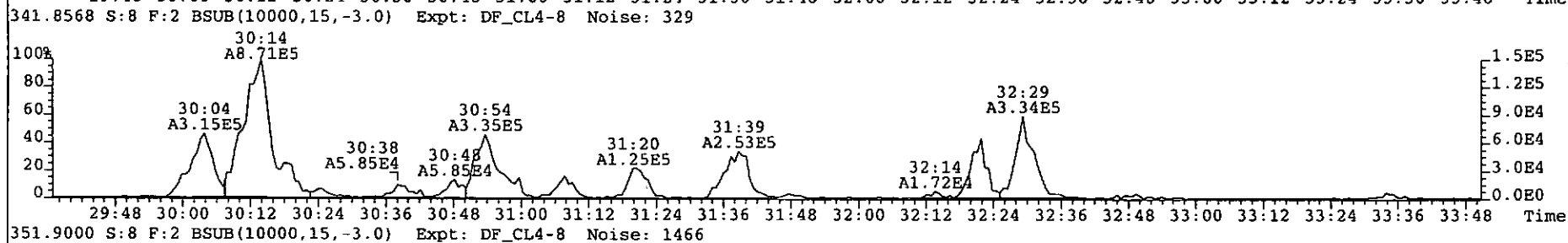
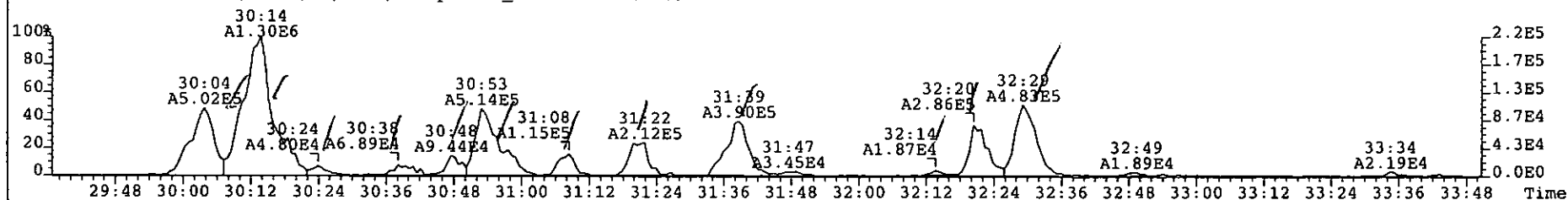
341.8568 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 240



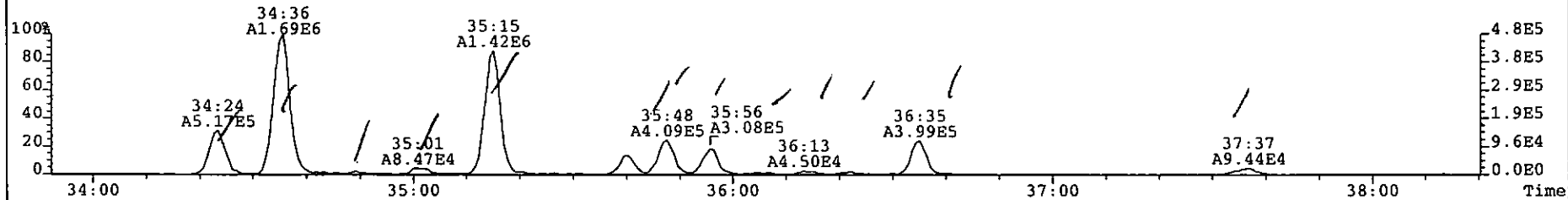
316.9824 S:8 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



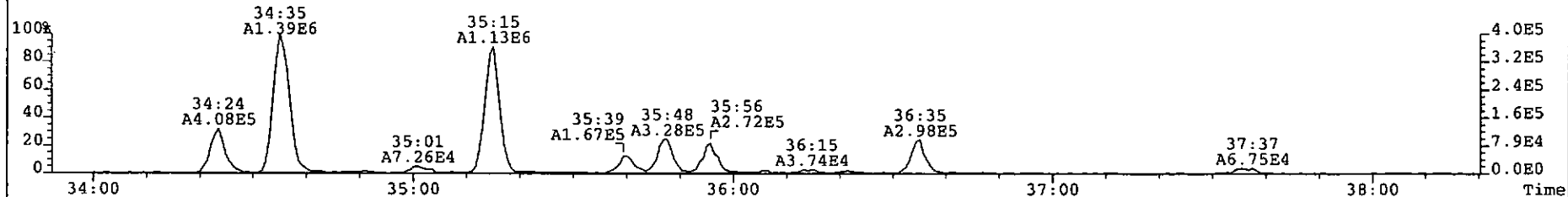
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
339.8597 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 251



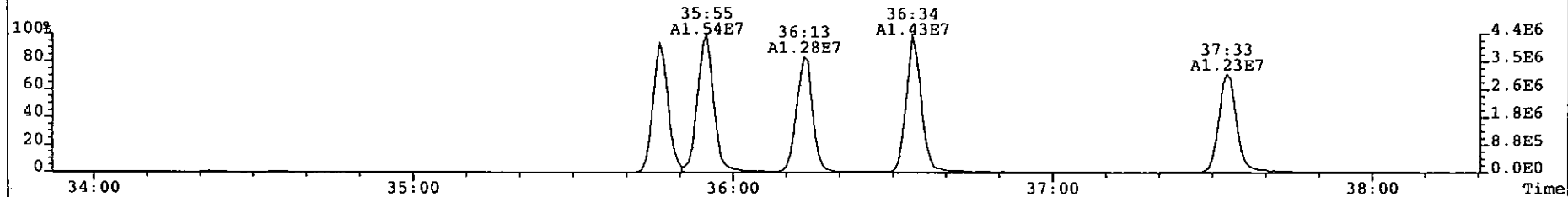
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
373.8207 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 342



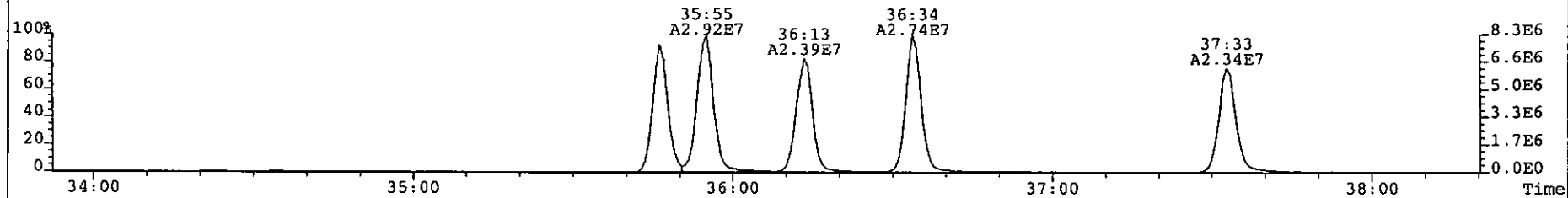
375.8178 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 274



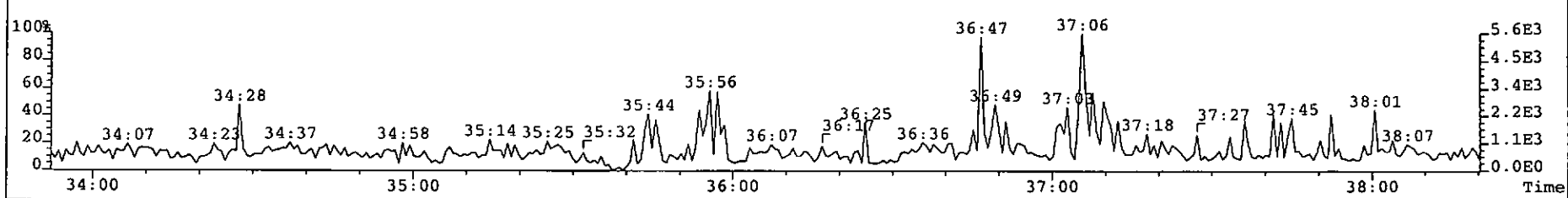
383.8639 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1013



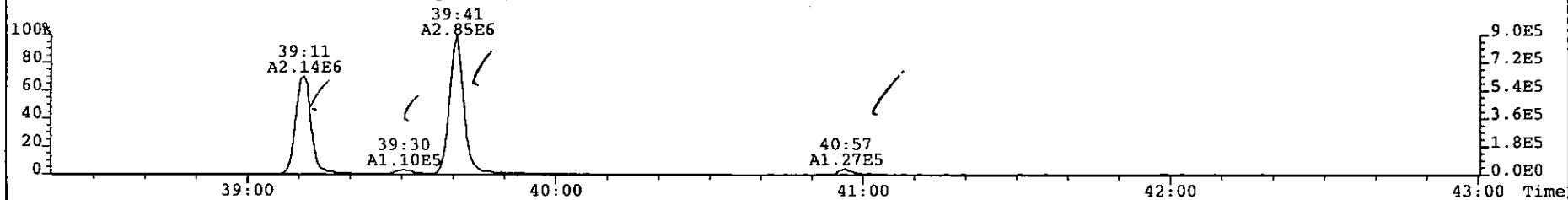
385.8610 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1789



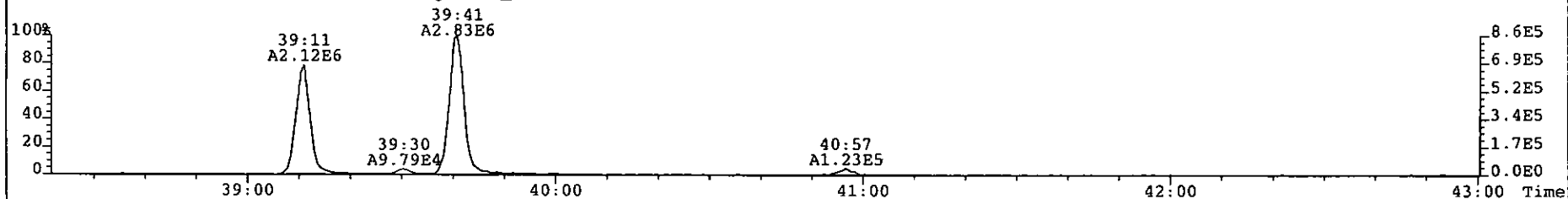
445.7555 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 225



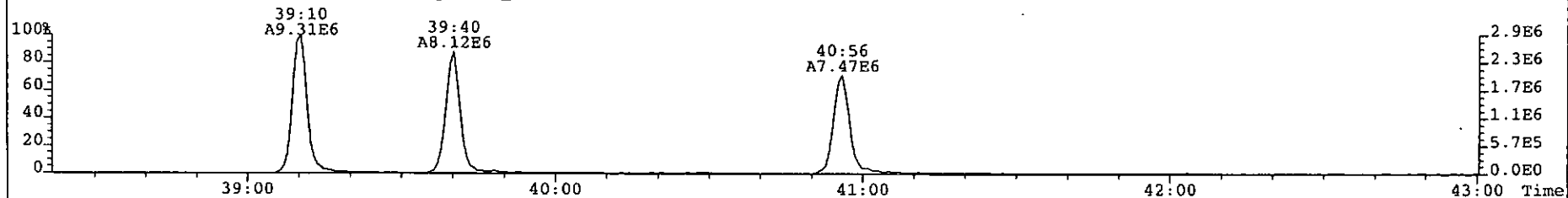
File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 426



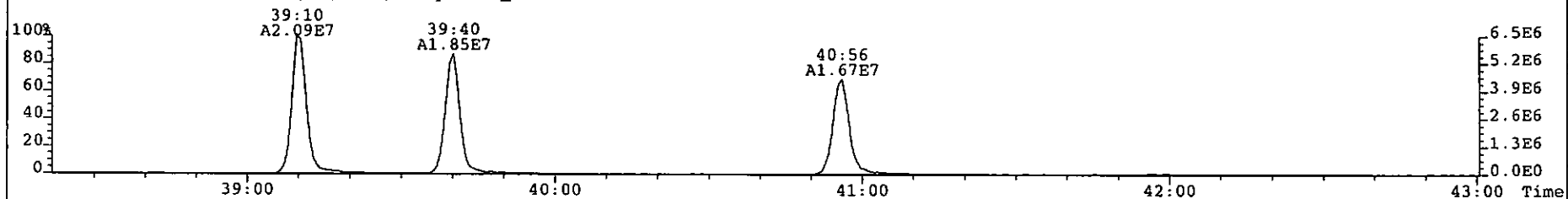
409.7788 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 334



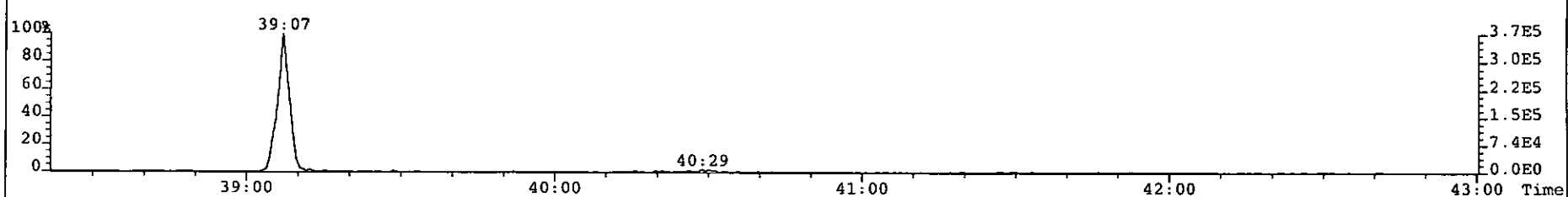
417.8253 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1371



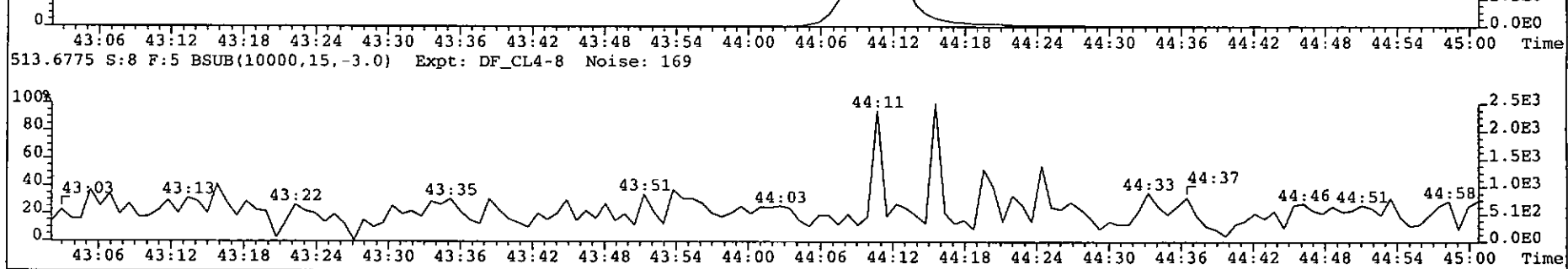
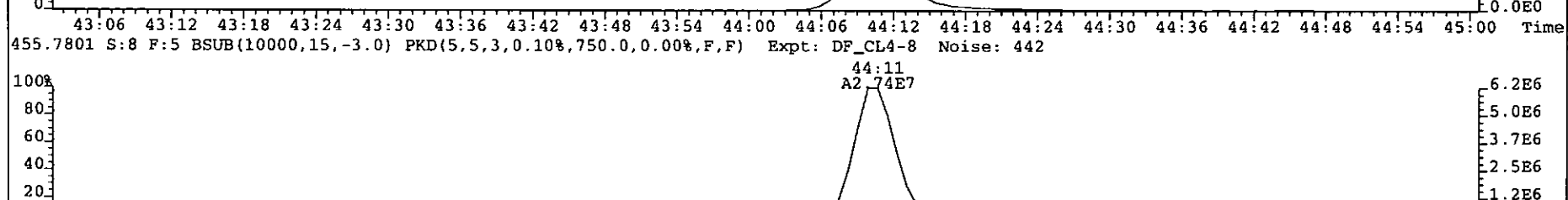
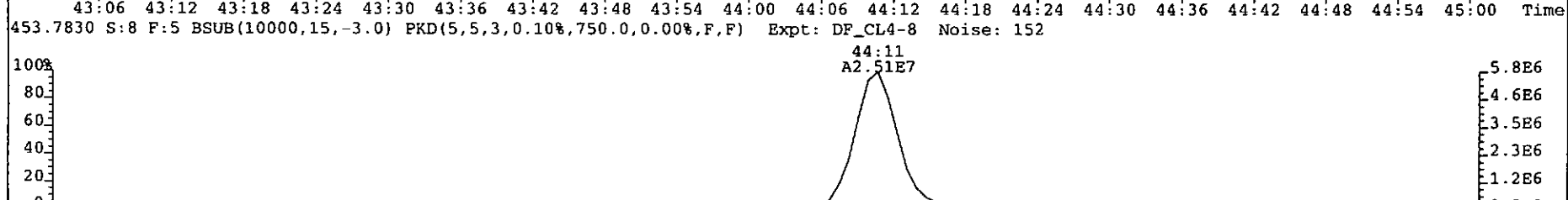
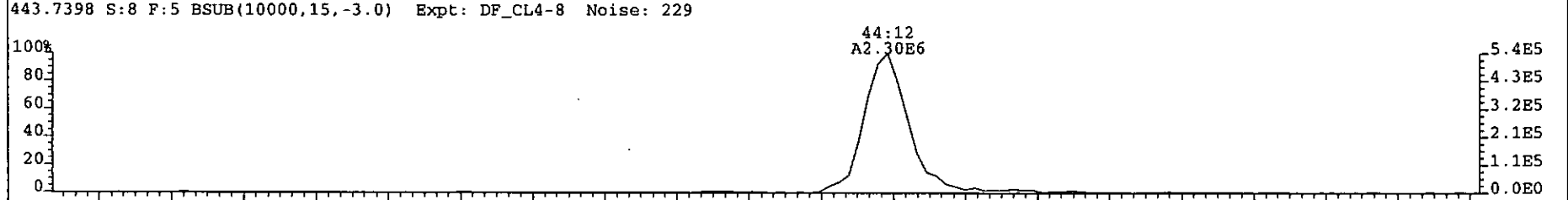
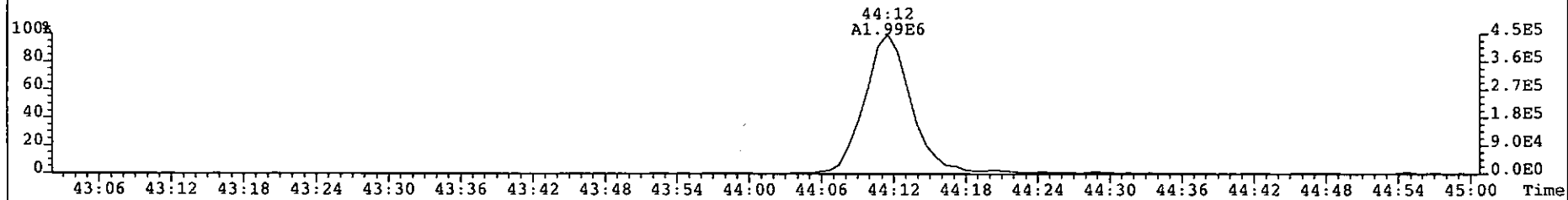
419.8220 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2634



479.7165 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 203



File: 090614P1 Acq: 14-JUN-2009 14:53:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1376_6875_004 BW-09-SS-090602 10.36g Vial# 51 File Text: AP DB5
441.7428 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 206



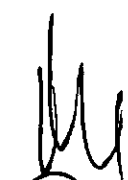
1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: BW-11-SS-090602 Filename: 090614P1 S: 9 Vial: 52 Acq: 14-JUN-09 15:43:15
 Lab ID: P1376_6875_005 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08Wt/Vol: 10.08
 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRE	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	6.93e+04	0.67 y	27:20	1.08	0.267	996	2.5	0.0715	-
Ax	1,2,3,7,8-PeCDD	1.44e+05	1.42 y	32:50	1.00	0.801	814	2.5	0.109	-
Ax	1,2,3,4,7,8-HxCDD	2.24e+05	1.23 y	36:46	1.08	1.38	2611	2.5	0.306	-
Ax	1,2,3,6,7,8-HxCDD	7.85e+05	1.12 y	36:53	0.94	5.08	2611	2.5	0.341	-
Ax	1,2,3,7,8,9-HxCDD	4.62e+05	1.10 y	37:11	0.99	2.82	2611	2.5	0.369	-
Ax	1,2,3,4,6,7,8-HpCDD	1.16e+07	1.07 y	40:22	0.97	89.8	10326	2.5	1.48	-
Ax	OCDD	6.38e+07	0.91 y	43:57	1.06	731	14413	2.5	3.34	-
Ax2	OCDD-a	3.74e+06	2.56 y	43:57	0.06	718	2689	2.5	10.4	-
Ax	2,3,7,8-TCDF	4.95e+05	0.77 y	26:25	1.05	1.16	1448	2.5	0.0696	-
Ax	1,2,3,7,8-PeCDF	1.22e+05	1.41 y	31:21	0.98	0.402	3038	2.5	0.231	-
Ax	2,3,4,7,8-PeCDF	2.81e+05	1.53 y	32:30	1.01	0.928	3038	2.5	0.238	-
Ax	1,2,3,4,7,8-HxCDF	2.04e+05	1.13 y	35:48	1.22	0.821	2976	2.5	0.159	-
Ax	1,2,3,6,7,8-HxCDF	1.84e+05	1.20 y	35:56	1.15	0.693	2976	2.5	0.157	-
Ax	2,3,4,6,7,8-HxCDF	2.75e+05	1.35 y	36:35	1.13	1.12	2976	2.5	0.163	-
Ax	1,2,3,7,8,9-HxCDF	5.52e+04	1.25 y	37:36	1.12	0.275	2976	2.5	0.216	-
Ax	1,2,3,4,6,7,8-HpCDF	2.56e+06	1.05 y	39:11	1.37	12.2	3037	2.5	0.172	-
Ax	1,2,3,4,7,8,9-HpCDF	1.17e+05	0.96 y	40:56	1.32	0.763	3037	2.5	0.261	-
Ax	OCDF	3.85e+06	0.91 y	44:12	0.94	33.3	2099	2.5	0.374	-
Ax2	OCDF-a	2.09e+05	2.40 y	44:11	0.05	32.2	637	2.5	2.02	-
ES	13C-2,3,7,8-TCDD	4.75e+07	0.84 y	27:18	0.99	170	2553	2.5	0.177	85.5
ES	13C-1,2,3,7,8-PeCDD	3.57e+07	1.66 y	32:49	0.83	152	7212	2.5	0.594	76.5
ES	13C-1,2,3,4,7,8-HxCDD	2.98e+07	1.29 y	36:45	1.08	178	9658	2.5	1.14	89.7
ES	13C-1,2,3,6,7,8-HxCDD	3.24e+07	1.28 y	36:52	1.23	171	9658	2.5	1.01	86.2
ES	13C-1,2,3,7,8,9-HxCDD	3.28e+07	1.32 y	37:10	1.21	175	9658	2.5	1.02	88.2
ES	13C-1,2,3,4,6,7,8-HpCDD	2.64e+07	1.05 y	40:21	0.98	174	10488	2.5	1.36	87.5
ES	13C-OCDD	3.27e+07	0.82 y	43:56	0.66	320	7284	2.5	1.41	80.7
ES	13C-2,3,7,8-TCDF	8.06e+07	0.82 y	26:24	0.96	192	3452	2.5	0.176	96.9
ES	13C-1,2,3,7,8-PeCDF	6.10e+07	1.54 y	31:20	0.85	163	23776	2.5	1.36	82.1
ES	13C-2,3,4,7,8-PeCDF	5.94e+07	1.54 y	32:29	0.88	153	23776	2.5	1.31	77.2
ES	13C-1,2,3,4,7,8-HxCDF	4.05e+07	0.53 y	35:46	1.47	177	26158	2.5	2.26	89.3
ES	13C-1,2,3,6,7,8-HxCDF	4.57e+07	0.53 y	35:55	1.78	166	26158	2.5	1.88	83.7
ES	13C-2,3,4,6,7,8-HxCDF	4.32e+07	0.53 y	36:34	1.61	174	26158	2.5	2.07	87.5
ES	13C-1,2,3,7,8,9-HxCDF	3.58e+07	0.53 y	37:33	1.40	165	26158	2.5	2.38	83.2
ES	13C-1,2,3,4,6,7,8-HpCDF	3.05e+07	0.44 y	39:10	1.16	170	14430	2.5	1.59	85.5
ES	13C-1,2,3,4,7,8,9-HpCDF	2.30e+07	0.46 y	40:57	0.92	161	14430	2.5	2.00	81.2
ES	13C-OCDF	4.88e+07	0.91 y	44:11	1.04	304	14093	2.5	1.73	76.7
CS	37Cl-2,3,7,8-TCDD	1.93e+07		27:20	0.99	69.2			1.50	87.2
CS	13C-1,2,3,4,7-PeCDD	3.44e+07	1.65 y	32:19	0.77	158	7212	2.5	0.644	79.9
CS	13C-1,2,3,4,6-PeCDF	5.84e+07	1.54 y	30:48	0.79	168	23776	2.5	1.46	84.5
CS	13C-1,2,3,4,6,9-HxCDF	4.00e+07	0.53 y	36:13	1.41	183	26158	2.5	2.36	92.3
CS	13C-1,2,3,4,6,8,9-HpCDF	2.60e+07	0.46 y	39:40	0.91	185	14430	2.5	2.03	93.1
NA	n/a	*	* n	NotF>	Div0	*	2888	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.59e+07	0.85 y	26:38	-	15.8	2553	2.5	-	-
JS	13C-1,2,3,4-TCDF	8.70e+07	0.83 y	24:59	-	15.5	3452	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.54e+07	1.30 y	37:04	-	7.00	771	2.5	-	-

Analyst: 

Date: 19 Jun 09

HW
19 Jun 09

SS	37Cl-2,3,7,8-TCDD	1.93e+07	.	27:20	1.00	80.5			1.68	101
SS	13C-1,2,3,4,7-PeCDD	3.44e+07	1.65 y	32:19	0.93	206	7212	2.5	1.04	104
SS	13C-1,2,3,4,6-PeCDF	5.84e+07	1.54 y	30:48	0.94	203	23776	2.5	1.90	102
SS	13C-1,2,3,4,6,9-HxCDF	4.00e+07	0.53 y	36:13	0.80	217	26158	2.5	1.99	109
SS	13C-1,2,3,4,6,8,9-HpCDF	2.60e+07	0.46 y	39:40	0.79	214	14430	2.5	1.41	108
SBS	2,4,6,8-TCDF	5.43e+05	0.74 y	22:30	1.05	1.28	1448	2.5	0.0696	-
Ay	1,3,6,8-TCDD	1.88e+06	0.79 y	23:29	1.08	7.26	996	2.5	0.0715	-
Ay	1,2,3,9-TCDD	2.16e+04	0.58 n	27:11	1.08	0.0833	996	2.5	0.0715	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	996	2.5	0.0715	-
Ay	1,2,4,7,9-PeCDD	1.00e+06	1.59 y	30:17	1.00	5.58	814	2.5	0.109	-
Ay	1,2,3,8,9-PeCDD	5.63e+04	1.78 n	33:17	1.00	0.314	814	2.5	0.109	-
Ay	1,2,4,6,7,9-HxCDD	2.34e+06	1.19 y	35:03	1.00	14.6	2611	2.5	0.339	-
Ay	1,2,3,4,6,7,9-HpCDD	2.36e+07	1.06 y	39:31	0.97	182	10326	2.5	1.48	-
Ay	1,3,6,8-TCDF	1.92e+05	0.97 n	21:18	1.05	0.452	1448	2.5	0.0696	-
Ay	2,3,4,8-TCDF	9.69e+04	1.10 n	26:18	1.05	0.228	1448	2.5	0.0696	-
Ay	1,2,8,9-TCDF	7.75e+04	1.27 n	28:29	1.05	0.182	1448	2.5	0.0696	-
Ay	1,3,4,6,8-PeCDF	8.96e+05	1.84 n	28:29	1.05	2.11	4012	2.5	0.193	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	3038	2.5	0.235	-
Ay	1,2,3,4,6,8-HxCDF	5.45e+05	1.19 y	34:24	1.15	2.27	2976	2.5	0.172	-
Tot	Total Tetra-Dioxins	5.20e+06	0.79 y	23:29	1.08	20.1	996	2.5	0.0715	-
Tot	Total Penta-Dioxins	3.45e+06	1.59 y	30:17	1.00	19.2	814	2.5	0.109	-
Tot	Total Hexa-Dioxins	9.15e+06	1.19 y	35:03	1.00	57.2	2611	2.5	0.339	-
Tot	Total Hepta-Dioxins	3.52e+07	1.06 y	39:31	0.97	272	10326	2.5	1.48	-
Tot	Total Tetra-Furans	4.97e+06	0.85 y	21:52	1.05	11.7	1448	2.5	0.0696	-
Tot	Total Penta-Furans	1.91e+06	1.57 y	30:03	1.00	6.30	3038	2.5	0.235	-
Tot	Total Hexa-Furans	4.62e+06	1.19 y	34:24	1.15	19.2	2976	2.5	0.172	-
Tot	Total Hepta-Furans	7.19e+06	1.05 y	39:11	1.35	37.9	3037	2.5	0.209	-
Tot	TCDD EMPC	5.92e+06	0.79 y	23:29	1.08	22.8	996	2.5	0.0715	-
Tot	PeCDD EMPC	3.88e+06	1.59 y	30:17	1.00	21.6	814	2.5	0.109	-
Tot	HxCDD EMPC	9.15e+06	1.19 y	35:03	1.00	57.2	2611	2.5	0.339	-
Tot	HpCDD EMPC	3.52e+07	1.06 y	39:31	0.97	272	10326	2.5	1.48	-
Tot	TCDF EMPC	5.66e+06	0.97 n	21:18	1.05	13.3	1448	2.5	0.0696	-
Tot	PeCDF EMPC	2.18e+06	1.57 y	30:03	1.00	7.19	3038	2.5	0.235	-
Tot	HxCDF EMPC	4.71e+06	1.19 y	34:24	1.15	19.5	2976	2.5	0.172	-
Tot	HpCDF EMPC	7.19e+06	1.05 y	39:11	1.35	37.9	3037	2.5	0.209	-
AS	13C-1,3,6,8-TCDD	4.75e+07	0.83 y	23:27	1.09	155	2553	2.5	0.162	78.1
AS	13C-1,3,6,8-TCDF	8.91e+07	0.82 y	21:16	1.09	187	3452	2.5	0.155	94.0
DPE	HxCDFE	*		NotF»	-	*	-	-	-	-
DPE	HpCDFE	*		NotF»	-	*	-	-	-	-
DPE	OCDFE	*		NotF»	-	*	-	-	-	-
DPE	NCDFE	1.12e+06		39:07	-	*	-	-	-	-
DPE	DCDFE	*		NotF»	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-	-

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

Total Conc.: 22.831 Unnamed Conc.: 15.220 Homolog count: 13

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:29	8.290e+05	n	1.054e+06	n	0.79	y	1.883e+06	1.883e+06	2.24e+02	y	7.26	1,3,6,8-TCDD
23:52	6.057e+05	n	7.407e+05	n	0.82	y	1.346e+06	1.346e+06	1.56e+02	y	5.19	
24:19	4.175e+04	n	4.249e+04	n	0.98	n	8.424e+04	7.520e+04	1.04e+01	y	0.290	
25:09	5.175e+05	n	6.937e+05	n	0.75	y	1.211e+06	1.211e+06	1.53e+02	y	4.67	
25:24	7.251e+04	n	8.588e+04	y	0.84	y	1.584e+05	1.584e+05	2.05e+01	y	0.611	
25:36	1.007e+05	n	1.062e+05	n	0.95	n	2.069e+05	1.880e+05	2.65e+01	y	0.725	
25:48	2.783e+04	y	3.229e+04	y	0.86	y	6.012e+04	6.012e+04	7.15e+00	y	0.232	
26:14	3.014e+04	y	3.608e+04	n	0.84	y	6.621e+04	6.621e+04	7.55e+00	y	0.255	
26:38	2.107e+05	n	2.185e+05	n	0.96	n	4.292e+05	3.867e+05	5.09e+01	y	1.49	
27:02	1.851e+05	y	2.231e+05	n	0.83	y	4.082e+05	4.082e+05	4.82e+01	y	1.57	
27:11	9.400e+03	y	1.623e+04	n	0.58	n	2.563e+04	2.161e+04	6.89e+00	y	0.0833	1,2,3,9-TCDD
27:20	2.776e+04	n	4.156e+04	n	0.67	y	6.933e+04	6.933e+04	1.10e+01	y	0.267	2,3,7,8-TCDD
27:40	2.883e+04	n	2.634e+04	y	1.09	n	5.517e+04	4.663e+04	9.23e+00	y	0.180	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

Total Conc.: 21.592 Unnamed Conc.: 14.895 Homolog count: 10

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:17	6.158e+05	n	3.872e+05	n	1.59	y	1.003e+06	1.003e+06	9.11e+01	y	5.58	1,2,4,7,9-PeCDD
30:50	1.095e+05	n	6.697e+04	n	1.64	y	1.765e+05	1.765e+05	2.19e+01	y	0.982	
31:24	6.162e+05	n	3.564e+05	n	1.73	y	9.726e+05	9.726e+05	1.24e+02	y	5.41	
31:35	8.762e+04	n	4.375e+04	n	2.00	n	1.314e+05	1.116e+05	1.93e+01	y	0.621	
31:41	4.678e+05	n	3.225e+05	n	1.45	y	7.904e+05	7.904e+05	1.03e+02	y	4.40	
31:58	1.279e+05	n	1.050e+05	n	1.22	n	2.329e+05	2.104e+05	2.26e+01	y	1.17	
32:20	2.250e+05	n	1.438e+05	n	1.56	y	3.687e+05	3.687e+05	5.72e+01	y	2.05	
32:50	8.453e+04	n	5.932e+04	n	1.42	y	1.438e+05	1.438e+05	2.02e+01	y	0.801	1,2,3,7,8-PeCDD
32:56	3.493e+04	n	1.792e+04	n	1.95	n	5.285e+04	4.570e+04	6.40e+00	y	0.254	
33:17	3.944e+04	n	2.210e+04	n	1.78	n	6.153e+04	5.635e+04	7.37e+00	y	0.314	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

Total Conc.: 57.221 Unnamed Conc.: 33.327 Homolog count: 8

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:03	1.273e+06	n	1.069e+06	n	1.19	y	2.342e+06	2.342e+06	1.24e+02	y	14.6	1,2,4,6,7,9-HxCDD

35:43	9.709e+05	n	8.053e+05	n	1.21	y	1.776e+06	1.776e+06	9.02e+01	y	11.1	
36:01	1.609e+06	n	1.327e+06	y	1.21	y	2.936e+06	2.936e+06	1.22e+02	y	18.3	
36:08	2.345e+05	y	2.095e+05	y	1.12	y	4.440e+05	4.440e+05	2.17e+01	y	2.77	
36:46	1.235e+05	n	1.006e+05	y	1.23	y	2.242e+05	2.242e+05	1.21e+01	y	1.38	1,2,3,4,7,8-HxCDD
36:53	4.153e+05	n	3.695e+05	n	1.12	y	7.848e+05	7.848e+05	3.87e+01	y	5.08	1,2,3,6,7,8-HxCDD
37:04	1.022e+05	y	8.254e+04	y	1.24	y	1.847e+05	1.847e+05	1.15e+01	y	1.15	
37:11	2.421e+05	y	2.203e+05	y	1.10	y	4.624e+05	4.624e+05	2.28e+01	y	2.82	1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDD EMPC Function: 4 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

Total Conc.: 271.74 Unnamed Conc.: * Homolog count: 2

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:31	1.212e+07	n	1.145e+07	n	1.06	y	2.357e+07	2.357e+07	3.33e+02	y	182	1,2,3,4,6,7,9-HpCDD
40:22	6.010e+06	n	5.614e+06	n	1.07	y	1.162e+07	1.162e+07	1.51e+02	y	89.8	1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: TCDF EMPC Function: 1 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

Total Conc.: 13.305 Unnamed Conc.: 10.000 Homolog count: 20

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:18	1.055e+05	n	1.087e+05	n	0.97	n	2.142e+05	1.923e+05	1.56e+01	y	0.452	1,3,6,8-TCDF
21:52	6.730e+04	n	7.950e+04	n	0.85	y	1.468e+05	1.468e+05	1.11e+01	y	0.345	
22:30	2.319e+05	n	3.116e+05	n	0.74	y	5.435e+05	5.435e+05	3.90e+01	y	1.28	2,4,6,8-TCDF
23:02	2.849e+05	y	3.485e+05	y	0.82	y	6.334e+05	6.334e+05	2.71e+01	y	1.49	
23:27	2.359e+05	y	3.447e+05	y	0.68	y	5.806e+05	5.806e+05	3.25e+01	y	1.37	
23:54	1.182e+05	y	1.597e+05	y	0.74	y	2.779e+05	2.779e+05	2.14e+01	y	0.654	
24:02	5.765e+04	y	7.549e+04	y	0.76	y	1.331e+05	1.331e+05	1.18e+01	y	0.313	
24:13	1.018e+05	n	1.223e+05	n	0.83	y	2.241e+05	2.241e+05	1.62e+01	y	0.527	
24:36	5.582e+04	y	6.474e+04	y	0.86	y	1.206e+05	1.206e+05	1.24e+01	y	0.284	
24:45	7.223e+04	y	1.016e+05	n	0.71	y	1.738e+05	1.738e+05	1.68e+01	y	0.409	
24:55	1.533e+05	y	2.088e+05	y	0.73	y	3.622e+05	3.622e+05	2.91e+01	y	0.852	
25:01	1.506e+05	y	2.036e+05	y	0.74	y	3.543e+05	3.543e+05	2.40e+01	y	0.833	
25:30	1.602e+05	n	1.798e+05	n	0.89	n	3.400e+05	3.182e+05	2.31e+01	y	0.749	
25:47	7.791e+04	y	1.014e+05	n	0.77	y	1.793e+05	1.793e+05	1.58e+01	y	0.422	
25:58	5.514e+04	n	7.651e+04	n	0.72	y	1.317e+05	1.317e+05	1.15e+01	y	0.310	
26:11	7.436e+04	y	8.922e+04	y	0.83	y	1.636e+05	1.636e+05	1.23e+01	y	0.385	
26:18	6.025e+04	y	5.477e+04	y	1.10	n	1.150e+05	9.693e+04	1.05e+01	y	0.228	2,3,4,8-TCDF
26:25	2.154e+05	y	2.792e+05	y	0.77	y	4.945e+05	4.945e+05	4.60e+01	y	1.16	2,3,7,8-TCDF
26:48	1.910e+05	n	2.600e+05	n	0.73	y	4.510e+05	4.510e+05	4.09e+01	y	1.06	
28:29	5.573e+04	n	4.377e+04	n	1.27	n	9.950e+04	7.748e+04	7.80e+00	y	0.182	1,2,8,9-TCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

Total Conc.: 7.1909 Unnamed Conc.: 5.860 Homolog count: 10

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:03	1.714e+05	y	1.091e+05	y	1.57 y	2.805e+05	2.805e+05	7.97e+00	y	0.926
30:14	4.493e+05	y	3.025e+05	y	1.49 y	7.518e+05	7.518e+05	1.73e+01	y	2.48
30:40	2.952e+04	y	2.311e+04	y	1.28 n	5.263e+04	4.856e+04	1.36e+00	n	0.160
30:48	2.088e+04	y	2.094e+04	y	1.00 n	4.182e+04	3.435e+04	2.30e+00	n	0.113
30:54	1.712e+05	y	1.106e+05	y	1.55 y	2.818e+05	2.818e+05	7.85e+00	y	0.930
31:08	3.317e+04	n	2.990e+04	y	1.11 n	6.307e+04	5.457e+04	2.45e+00	n	0.180
31:21	7.135e+04	y	5.045e+04	n	1.41 y	1.218e+05	1.218e+05	4.59e+00	y	0.402 1,2,3,7,8-PeCDF
31:38	1.162e+05	n	7.489e+04	n	1.55 y	1.911e+05	1.911e+05	4.47e+00	y	0.631
32:21	9.460e+04	y	5.222e+04	y	1.81 n	1.468e+05	1.332e+05	5.41e+00	y	0.439
32:30	1.702e+05	y	1.112e+05	y	1.53 y	2.814e+05	2.814e+05	9.53e+00	y	0.928 2,3,4,7,8-PeCDF
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HxCDF EMPC Function: 3 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

Total Conc.: 19.538 Unnamed Conc.: 14.363 Homolog count: 11

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:24	2.960e+05	n	2.487e+05	n	1.19 y	5.447e+05	5.447e+05	2.51e+01	y	2.27 1,2,3,4,6,8-HxCDF
34:36	8.375e+05	n	7.118e+05	n	1.18 y	1.549e+06	1.549e+06	6.60e+01	y	6.46
35:02	3.682e+04	n	3.645e+04	n	1.01 n	7.327e+04	6.651e+04	3.47e+00	y	0.277
35:15	9.138e+05	n	7.731e+05	n	1.18 y	1.687e+06	1.687e+06	7.61e+01	y	7.03
35:40	5.381e+04	n	4.745e+04	n	1.13 y	1.013e+05	1.013e+05	4.79e+00	y	0.422
35:48	1.080e+05	n	9.583e+04	n	1.13 y	2.038e+05	2.038e+05	8.96e+00	y	0.821 1,2,3,4,7,8-HxCDF
35:56	1.003e+05	n	8.329e+04	n	1.20 y	1.836e+05	1.836e+05	8.62e+00	y	0.693 1,2,3,6,7,8-HxCDF
36:15	1.314e+04	n	1.894e+04	n	0.69 n	3.208e+04	2.374e+04	2.36e+00	n	0.0989
36:28	1.030e+04	n	8.722e+03	n	1.18 y	1.902e+04	1.902e+04	1.29e+00	n	0.0793
36:35	1.579e+05	n	1.173e+05	n	1.35 y	2.752e+05	2.752e+05	1.24e+01	y	1.12 2,3,4,6,7,8-HxCDF
37:36	3.069e+04	n	2.452e+04	n	1.25 y	5.521e+04	5.521e+04	2.48e+00	n	0.275 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]										

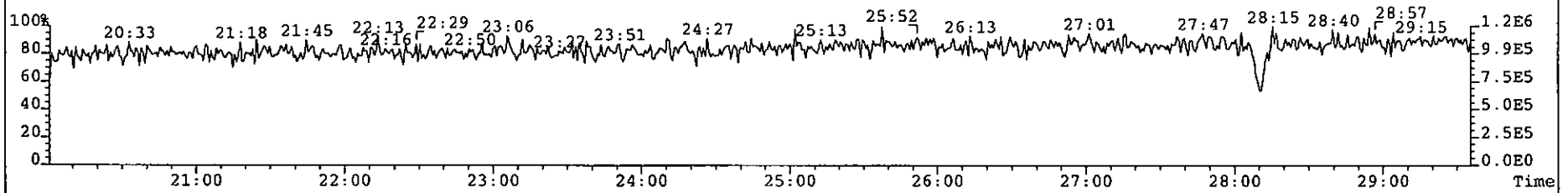
Totals class: HpCDF EMPC Function: 4 Run #: 16 Checkcode: 4823
 File Name: 090614P1 Sample #: 9 Sample text: P1376_6875_005 BW-11-SS-090602 10.1g

Acquired: 14-JUN-09 15:43:15 Processed: 15-JUN-09 09:15:13

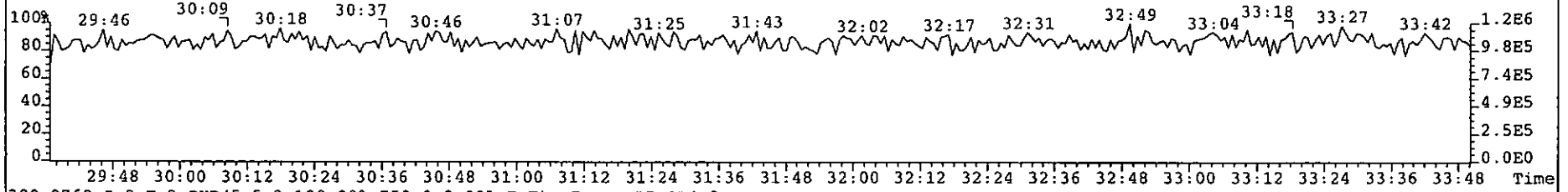
Total Conc.: 37.874 Unnamed Conc.: 24.876 Homolog count: 4

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:11	1.316e+06	n	1.249e+06	n	1.05 y	2.564e+06	2.564e+06	1.21e+02	y	12.2 1,2,3,4,6,7,8-HpCDF
39:31	4.809e+04	n	4.407e+04	n	1.09 y	9.216e+04	9.216e+04	3.93e+00	y	0.509
39:41	2.229e+06	n	2.185e+06	n	1.02 y	4.414e+06	4.414e+06	2.13e+02	y	24.4
40:56	5.711e+04	n	5.949e+04	y	0.96 y	1.166e+05	1.166e+05	4.95e+00	y	0.763 1,2,3,4,7,8,9-HpCDF

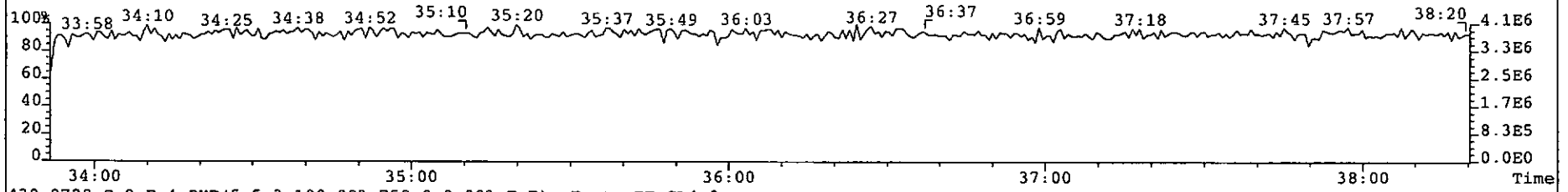
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-Sg-090602 10.1g Vial# 52 File Text: AP DB5
316.9824 S:9 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



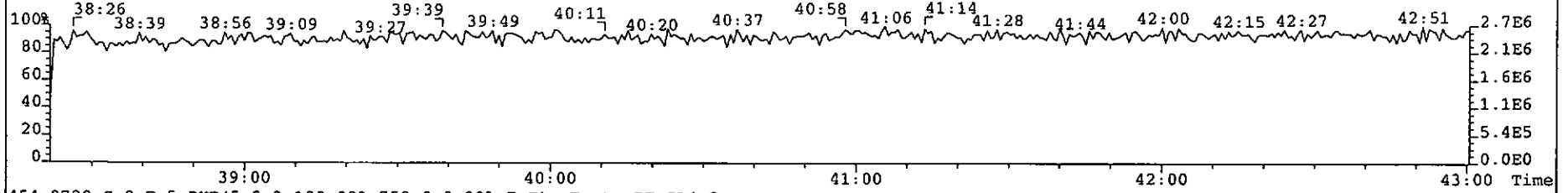
366.9792 S:9 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



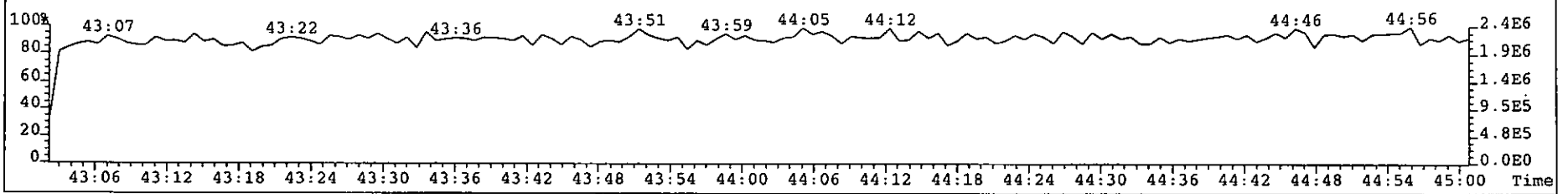
380.9760 S:9 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



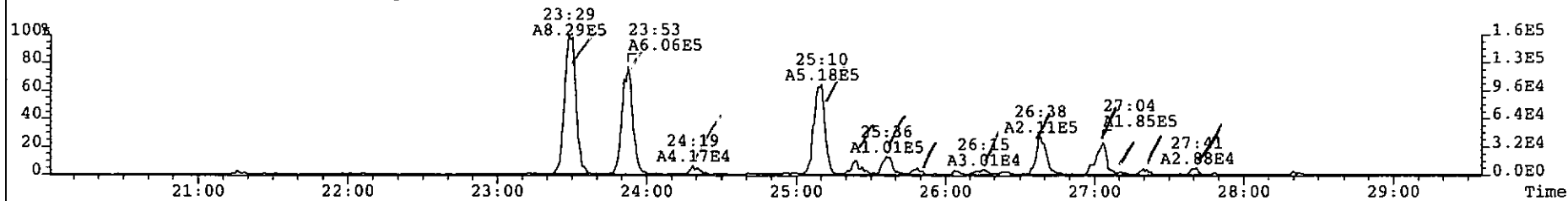
430.9728 S:9 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



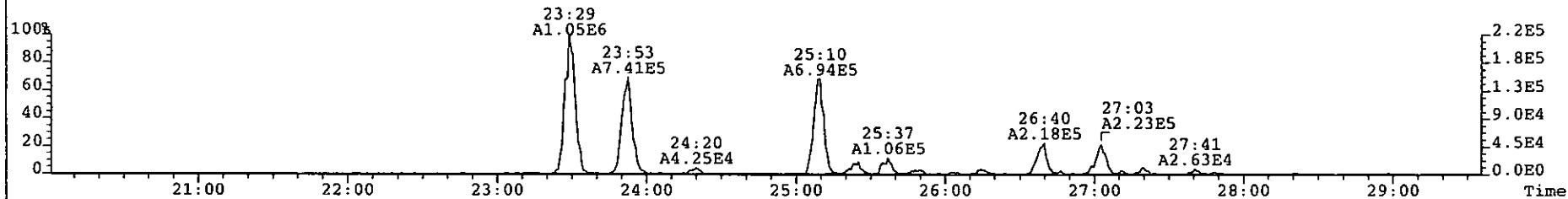
454.9728 S:9 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



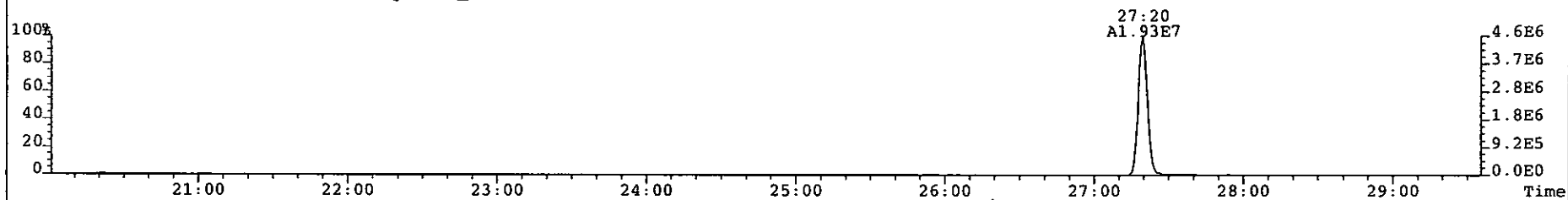
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
319.8965 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 320



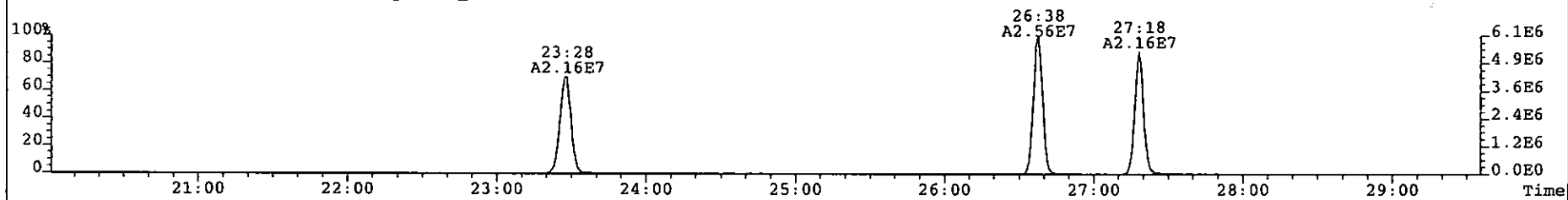
321.8936 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 296



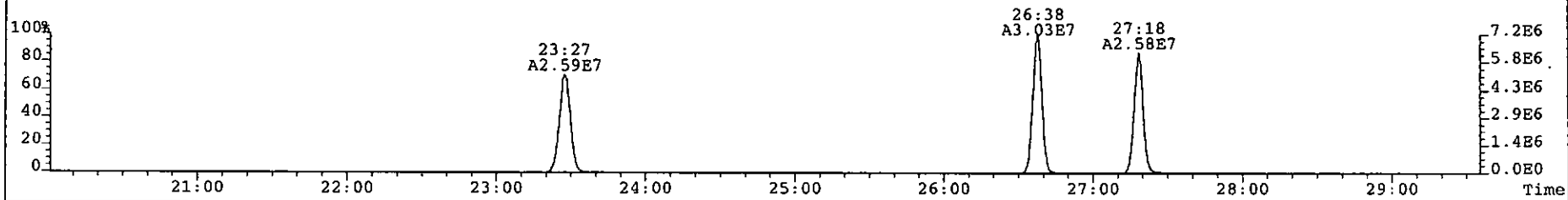
327.8850 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 269



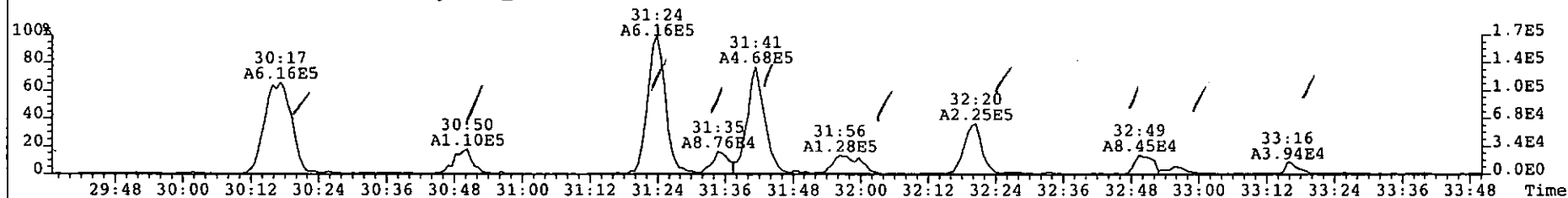
331.9368 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 295



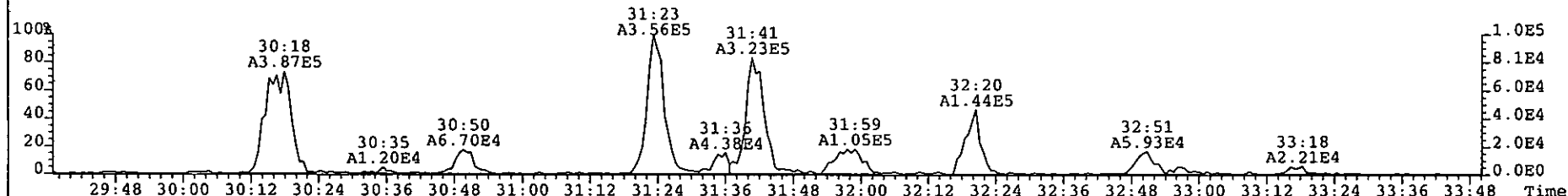
333.9339 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 355



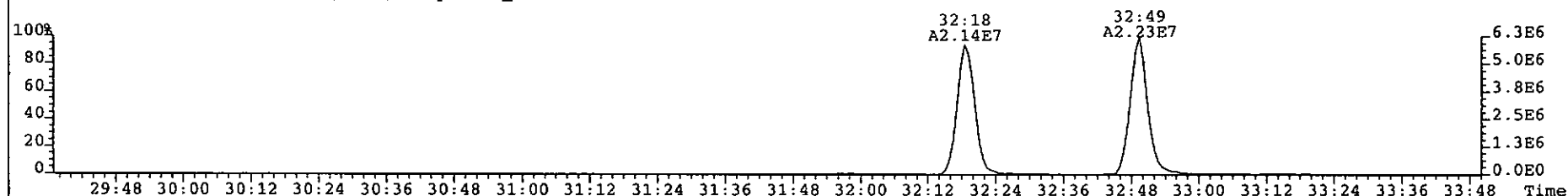
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage S1R Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
355.8546 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 138



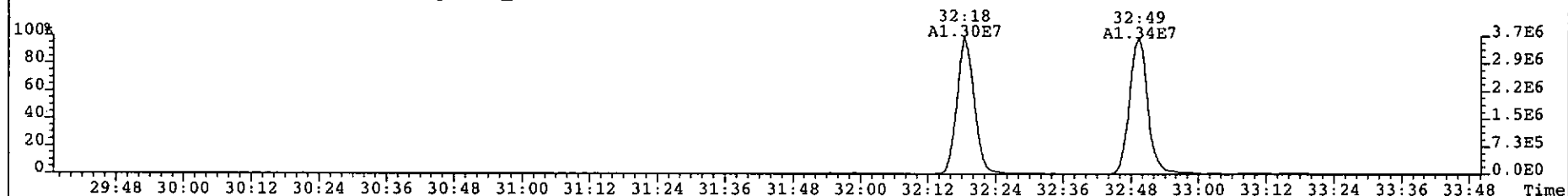
357.8517 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 191



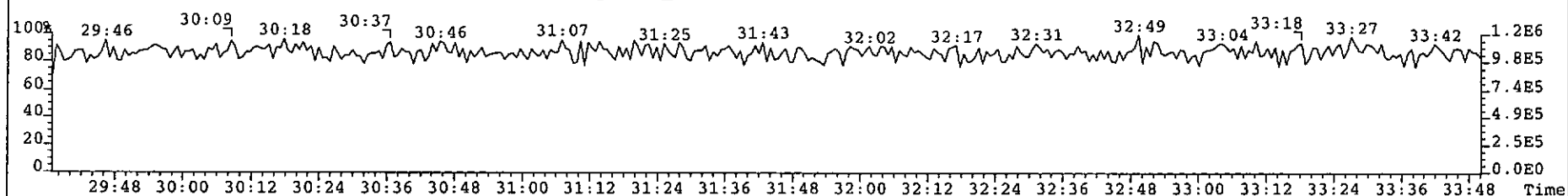
367.8949 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 170



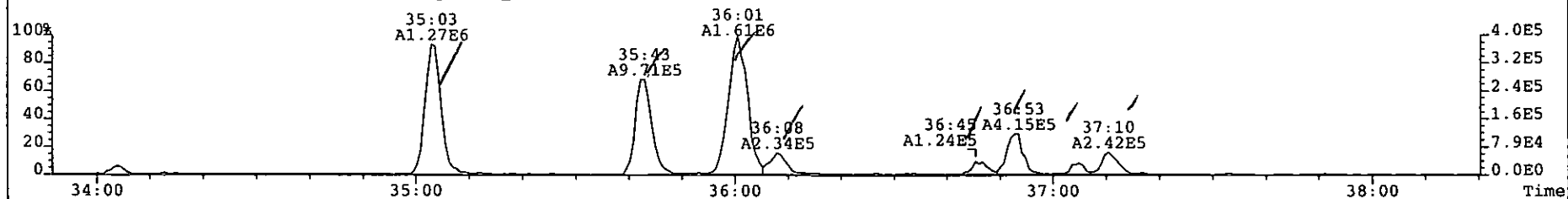
369.8919 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 189



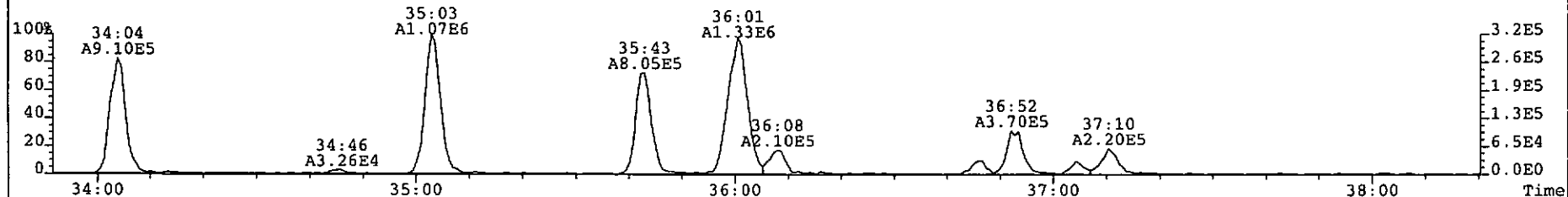
366.9792 S:9 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



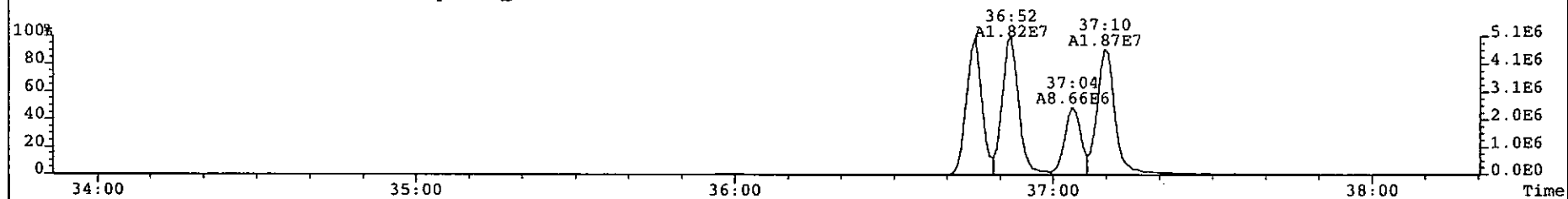
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
389.8156 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 481



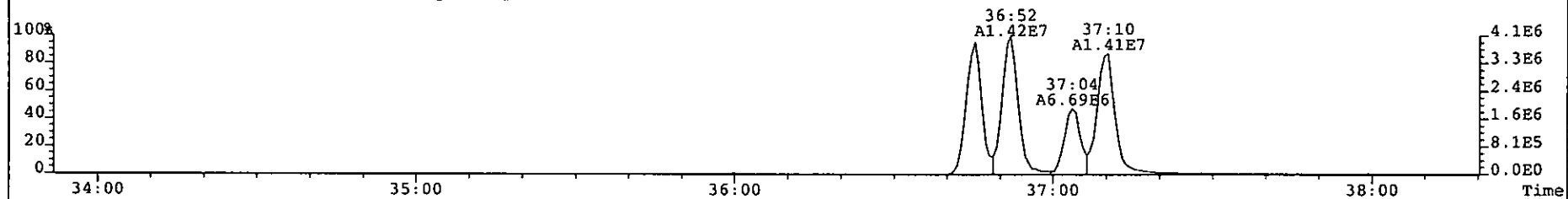
391.8127 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 369



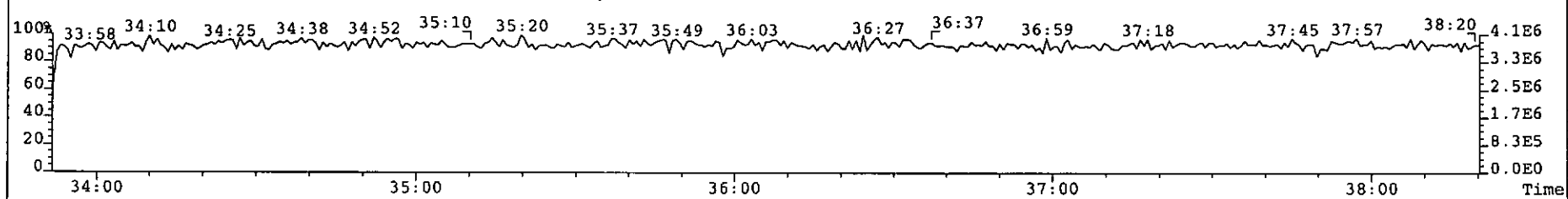
401.8559 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 153



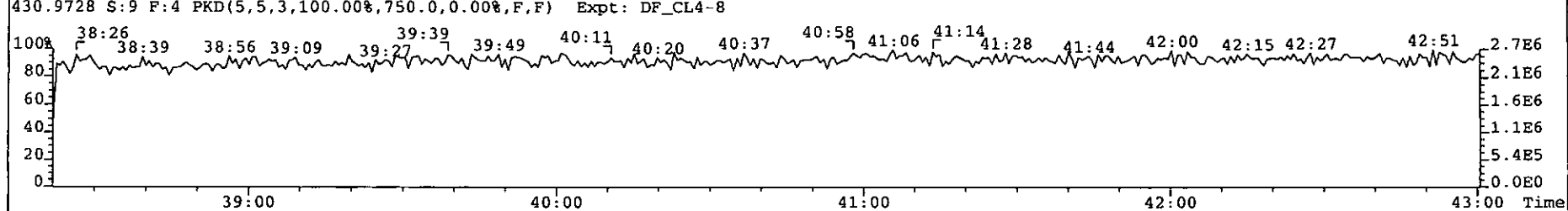
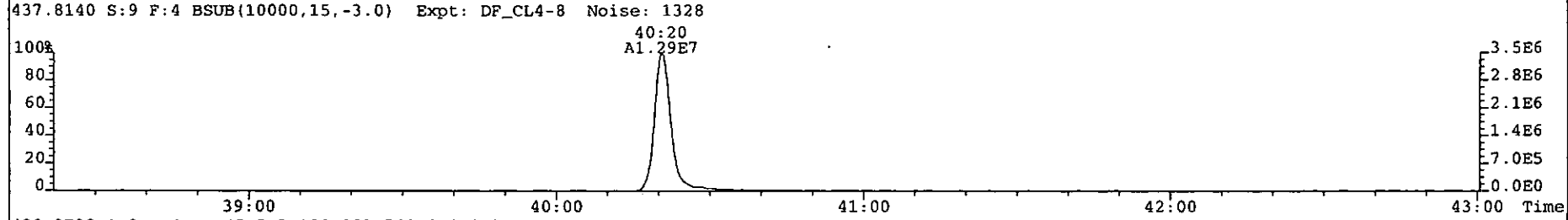
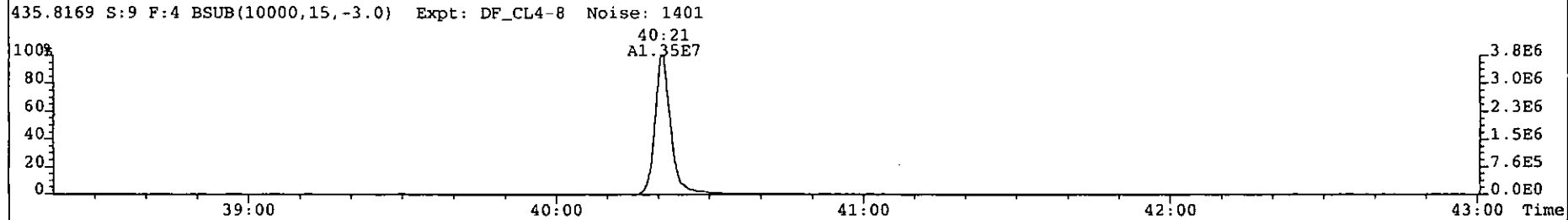
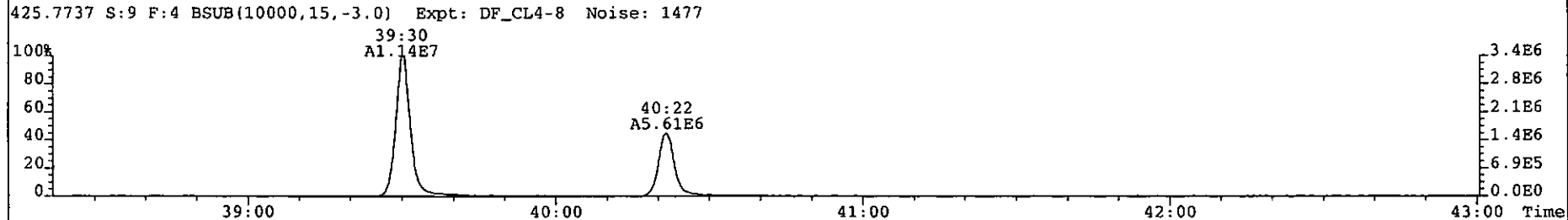
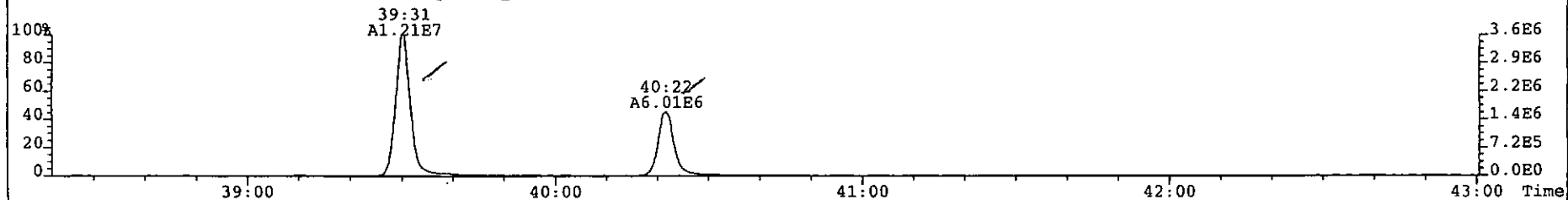
403.8530 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 173



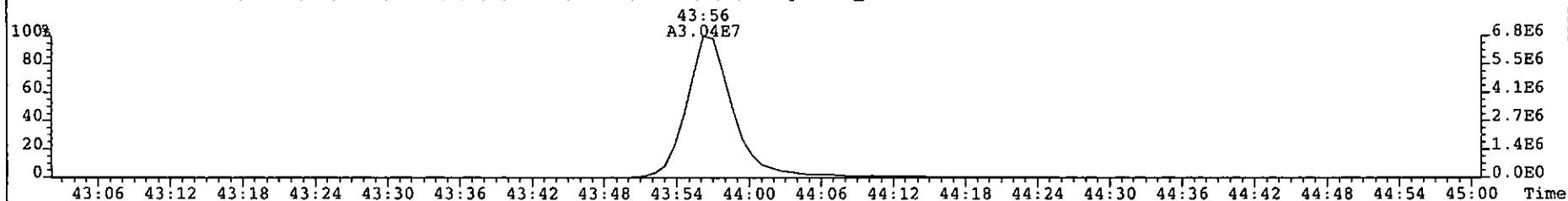
380.9760 S:9 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



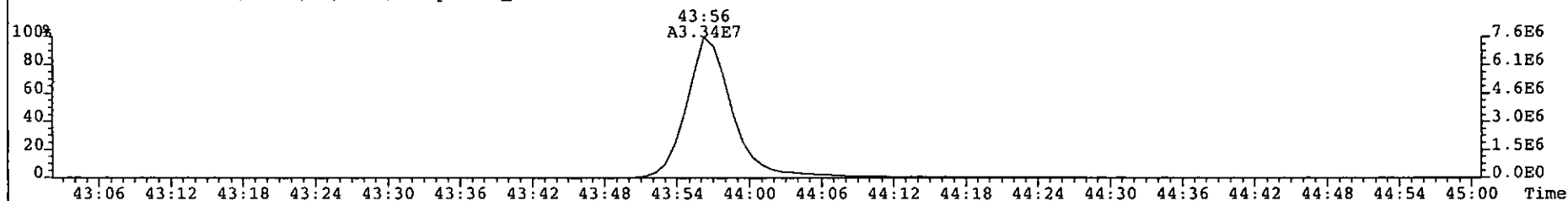
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
423.7767 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1901



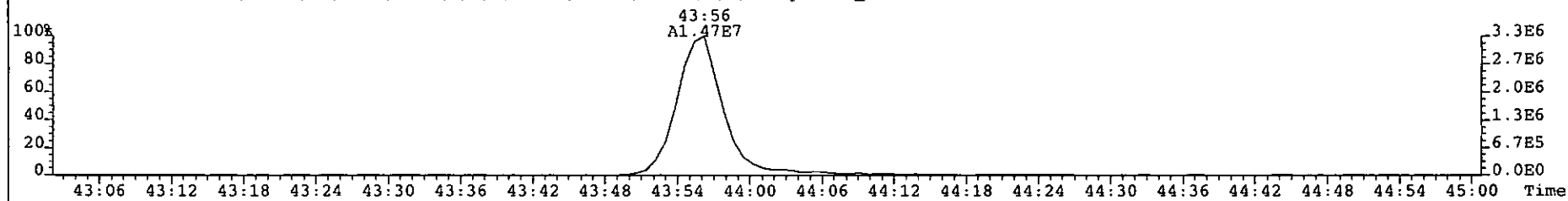
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 176



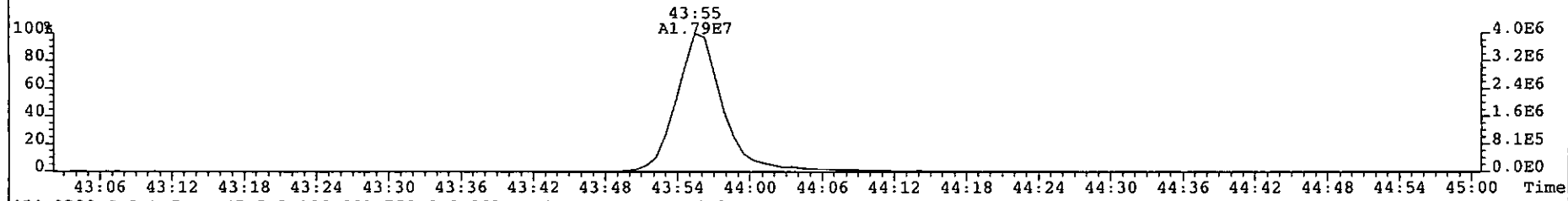
459.7348 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1220



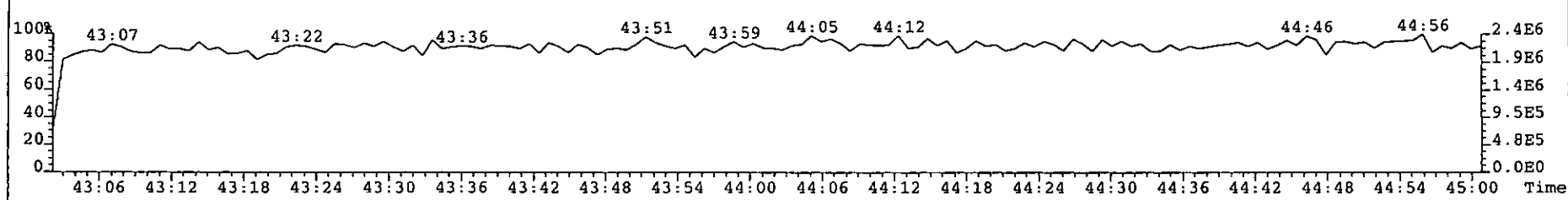
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 272



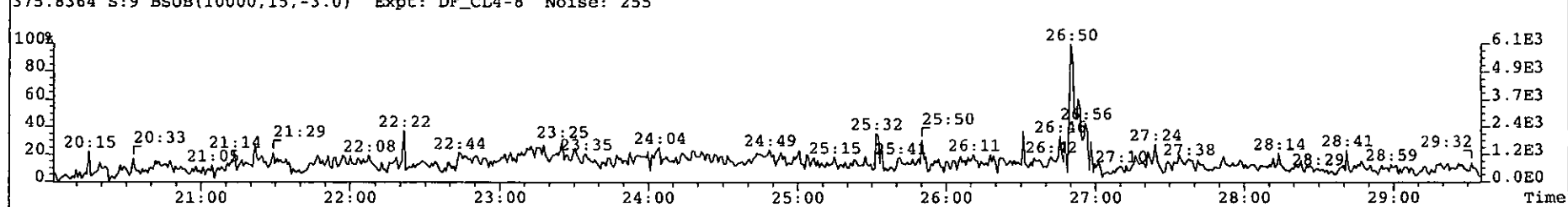
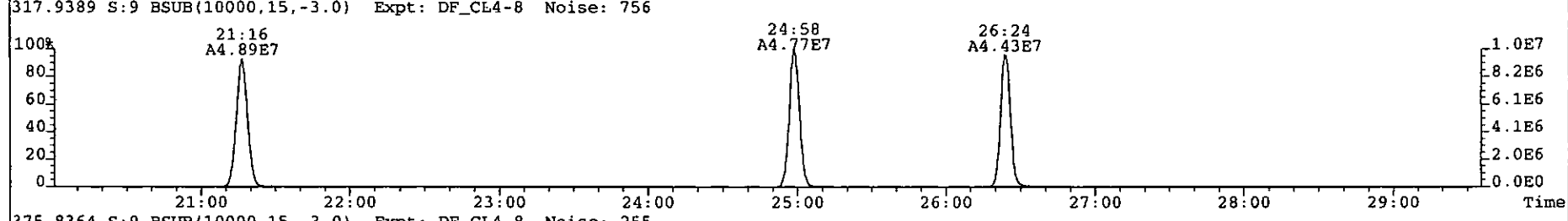
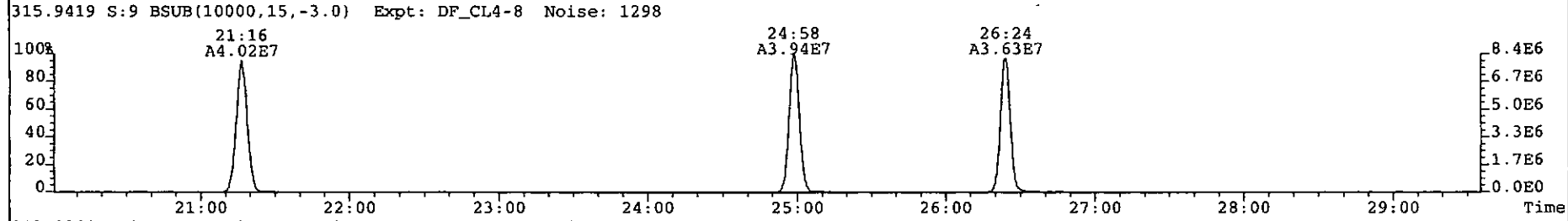
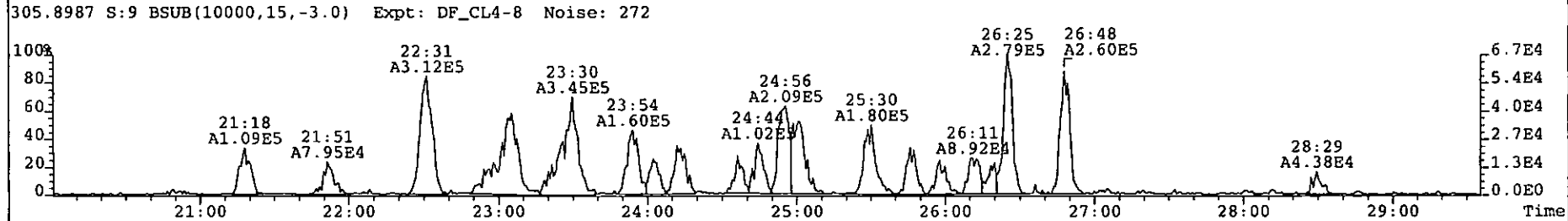
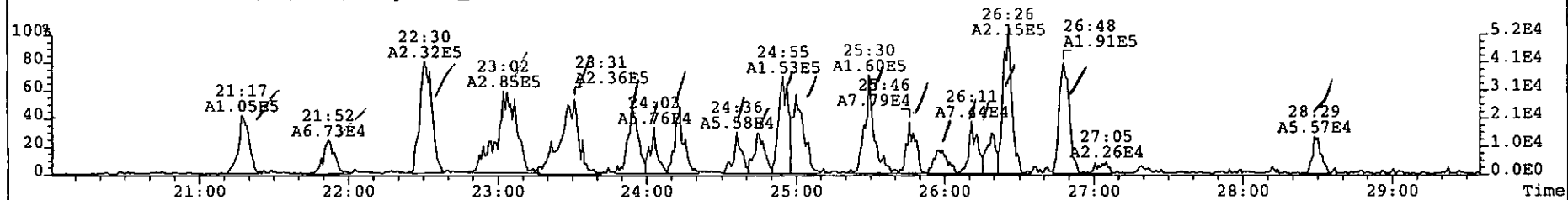
471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 300



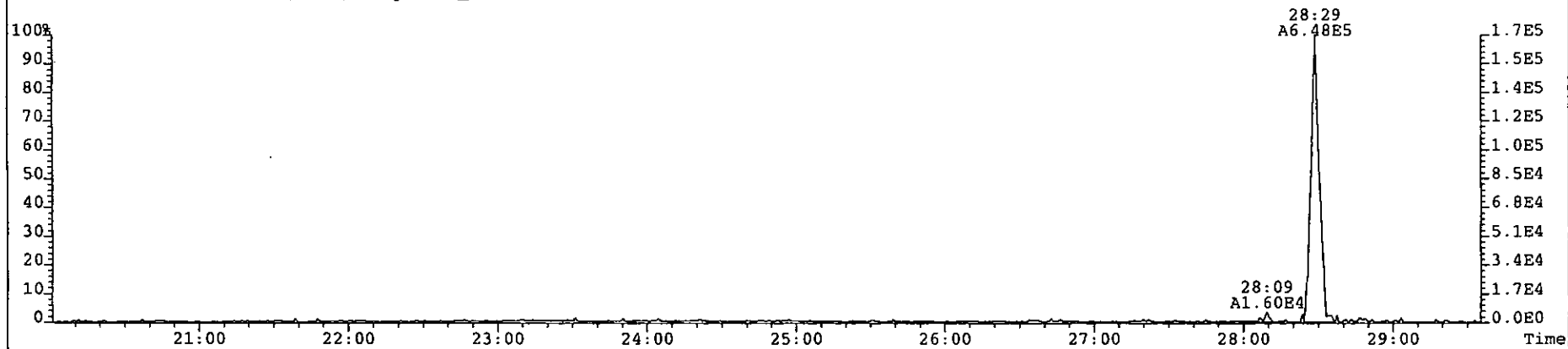
454.9728 S:9 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



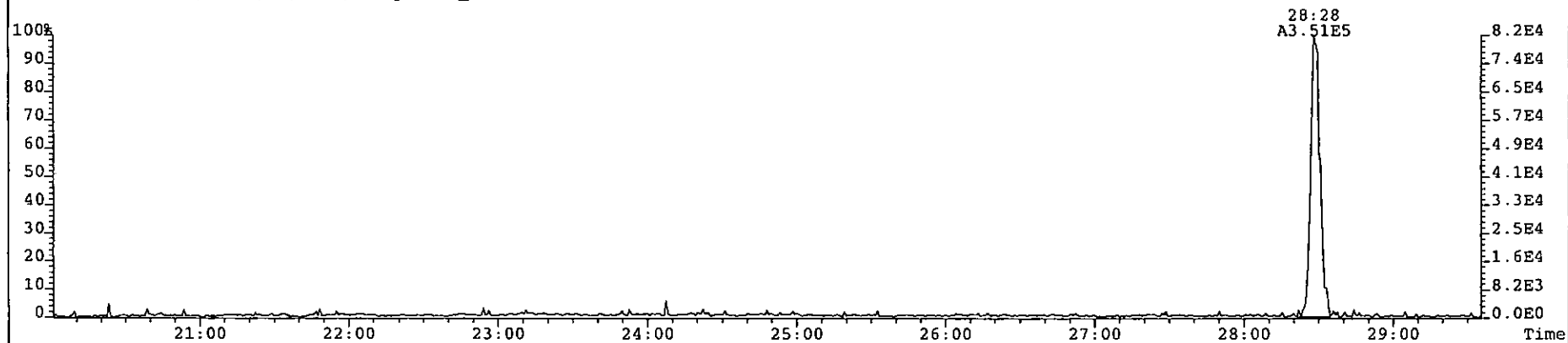
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
303.9016 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 265



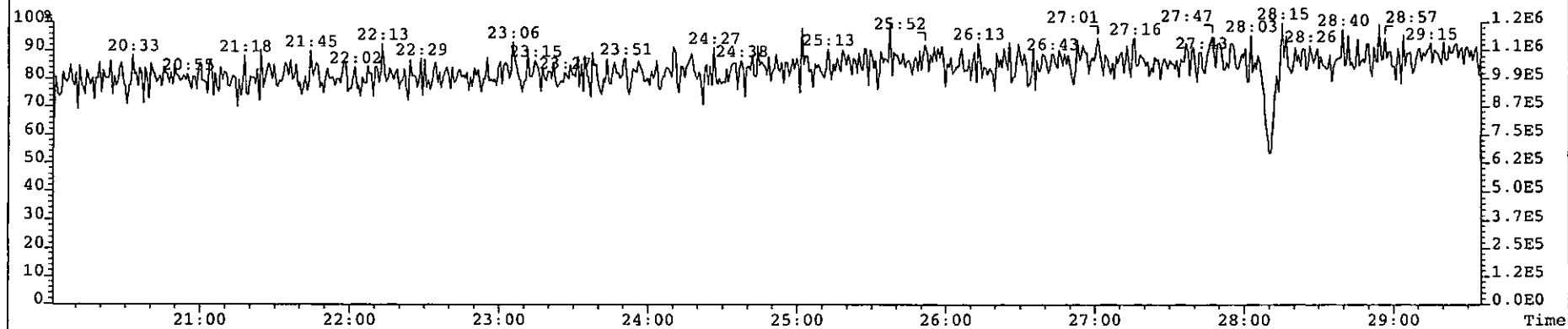
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
339.8597 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 257



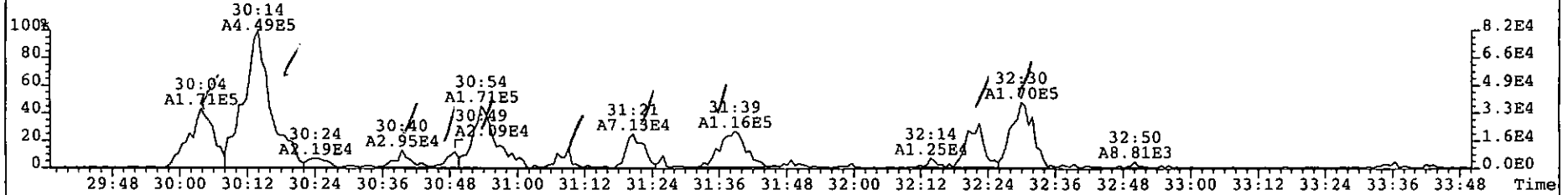
341.8568 S:9 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 261



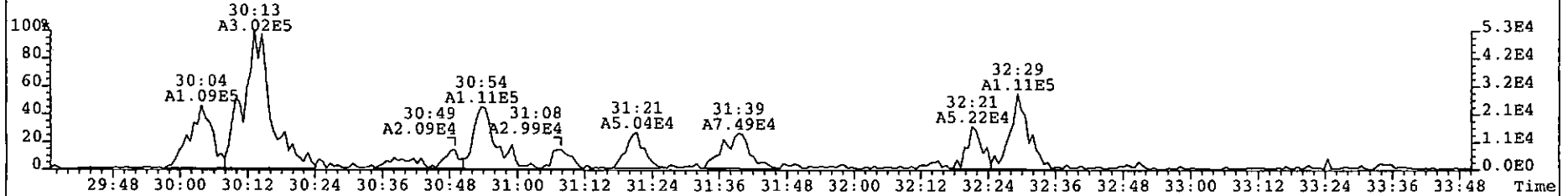
316.9824 S:9 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



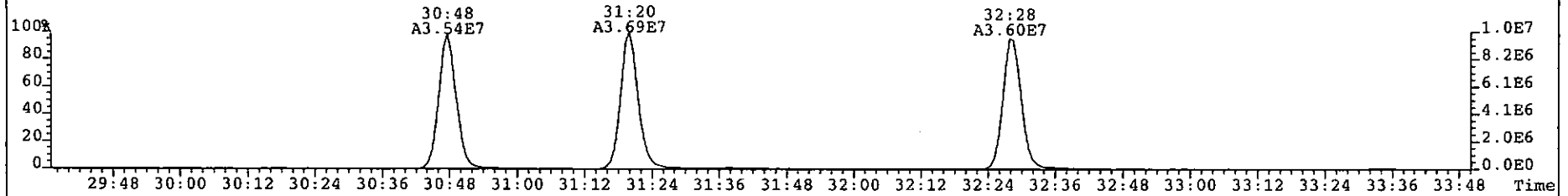
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
339.8597 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 182



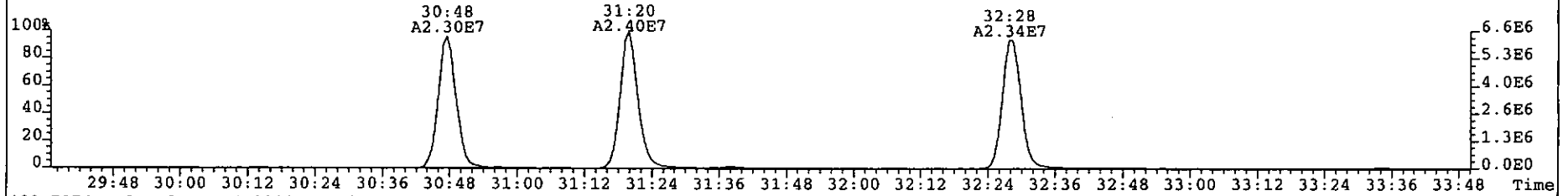
341.8568 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 196



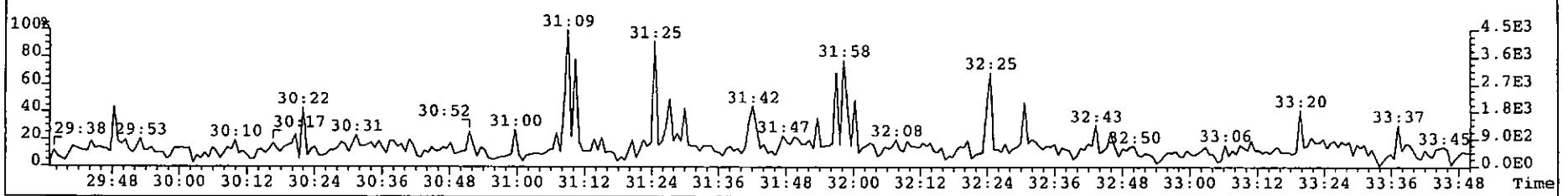
351.9000 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2398



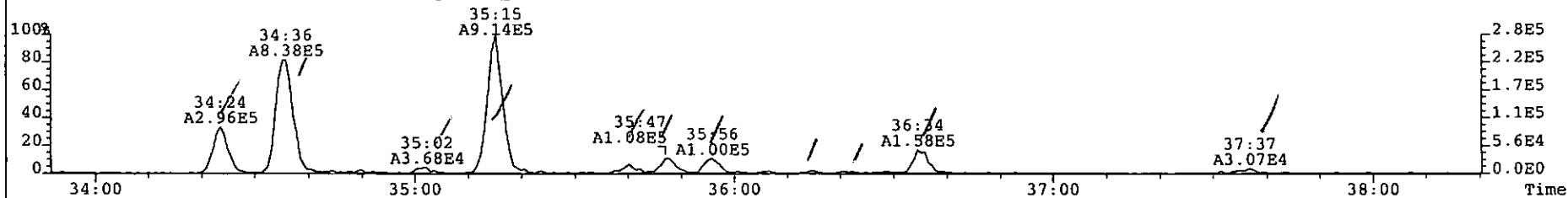
353.8970 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1656



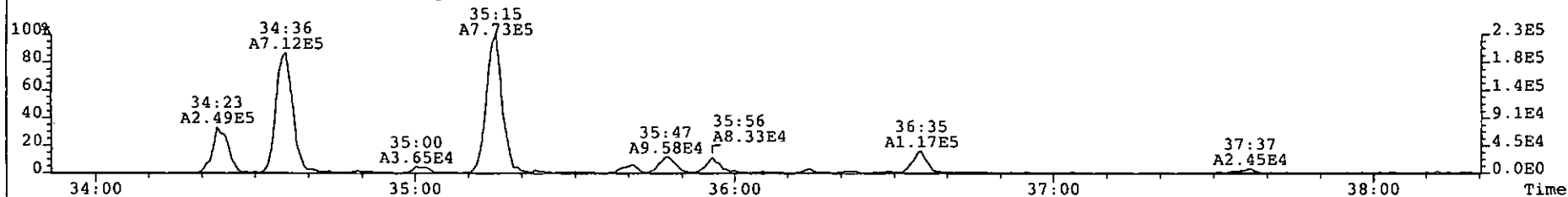
409.7974 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 182



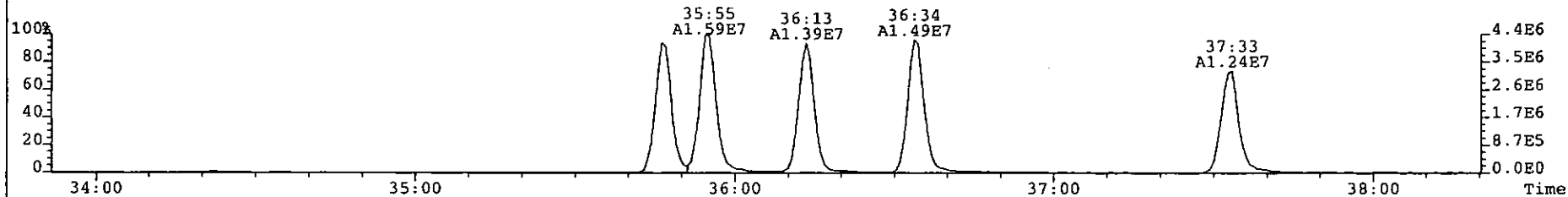
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 213



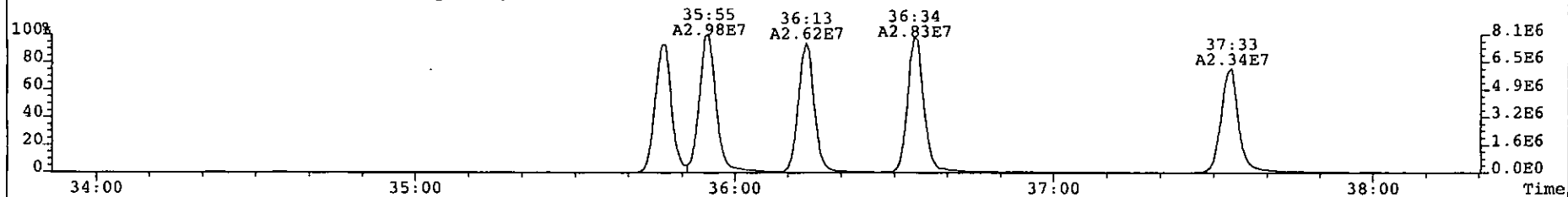
375.8178 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 206



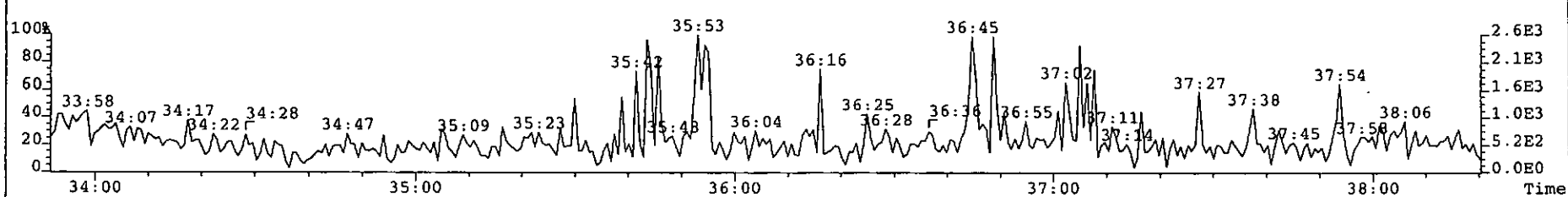
383.8639 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 620



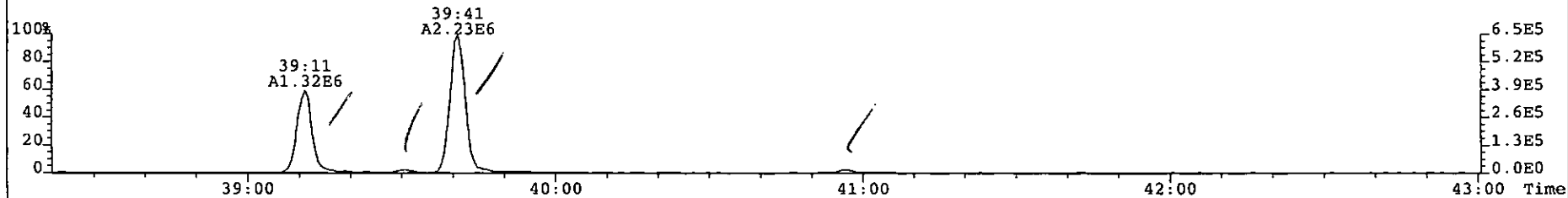
385.8610 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2318



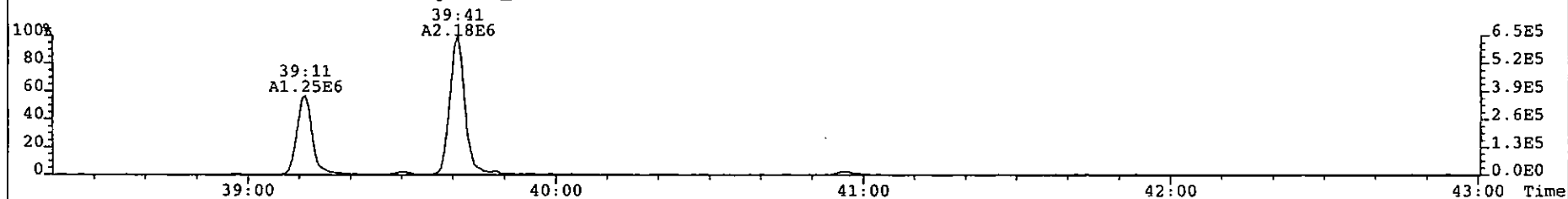
445.7555 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 168



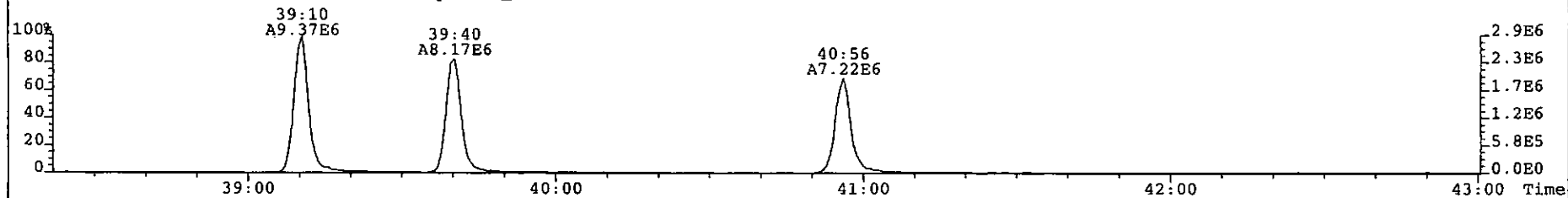
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
407.7818 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 285



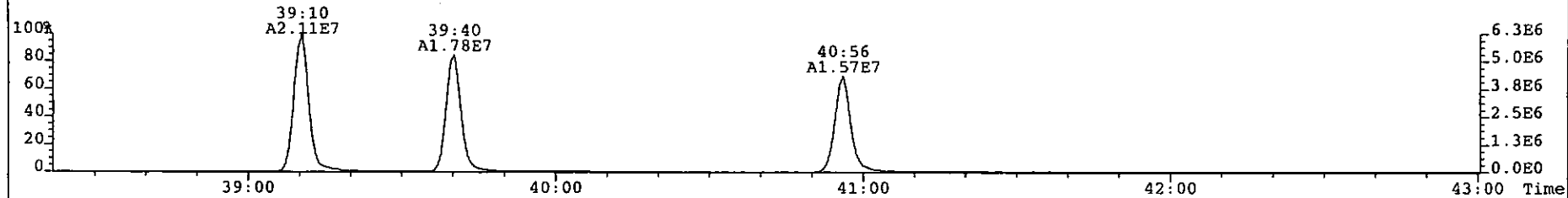
409.7788 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 259



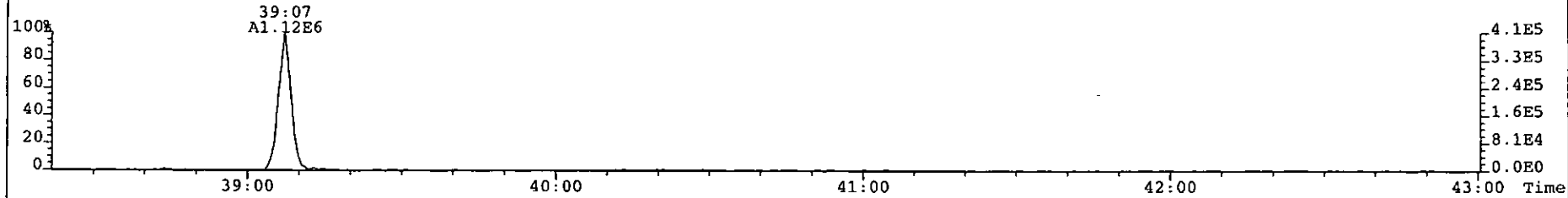
417.8253 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1320



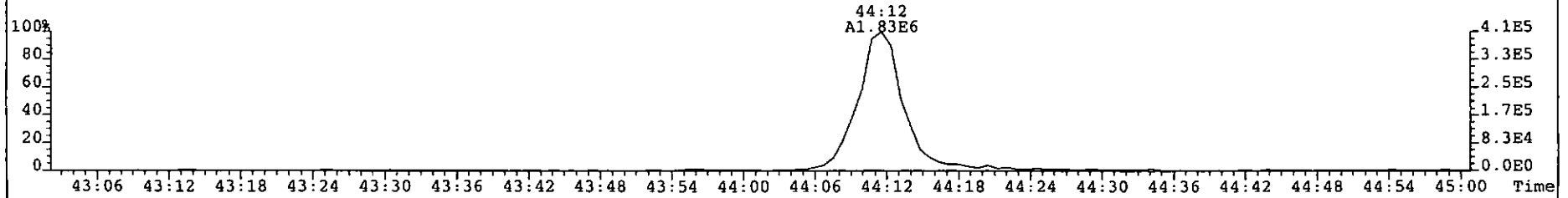
419.8220 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2962



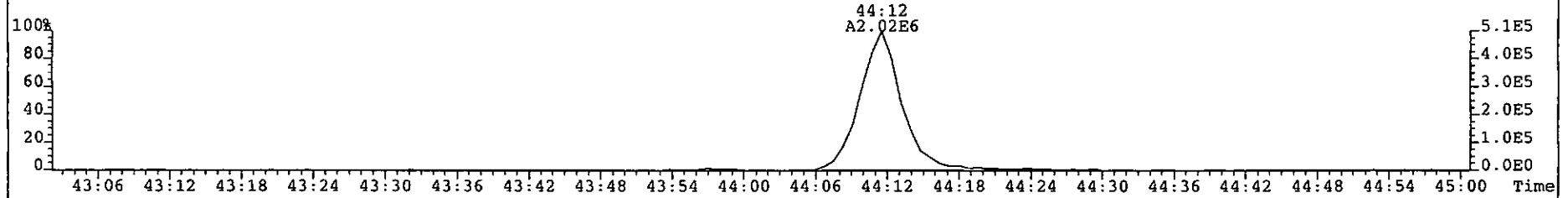
479.7165 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 204



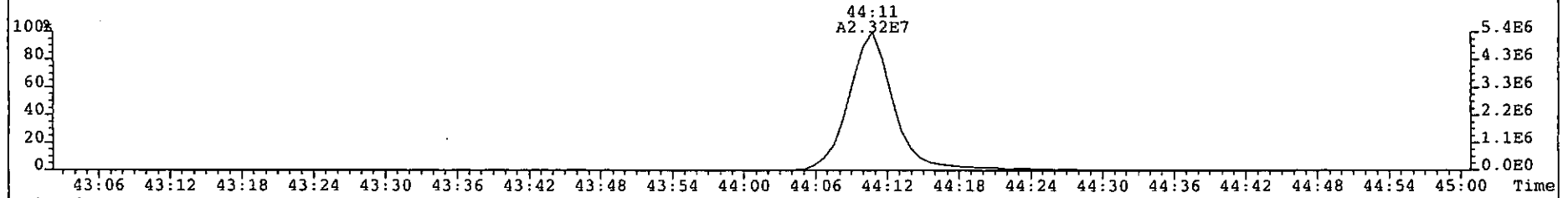
File: 090614P1 Acq: 14-JUN-2009 15:43:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 9 Text: P1376_6875_005 BW-11-SS-090602 10.1g Vial# 52 File Text: AP DB5
441.7428 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 218



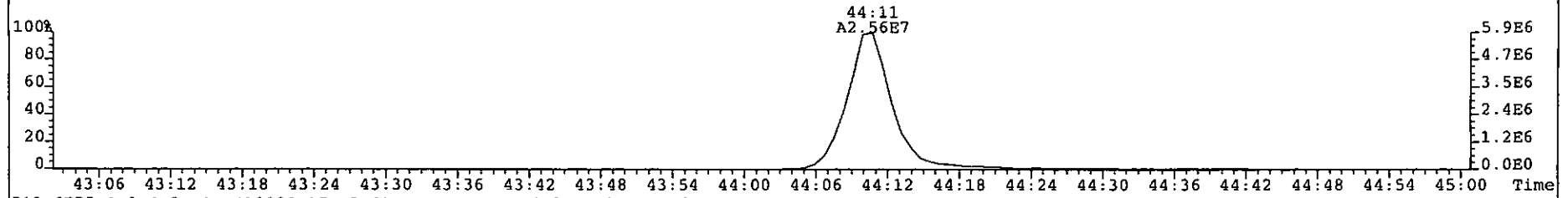
443.7398 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 144



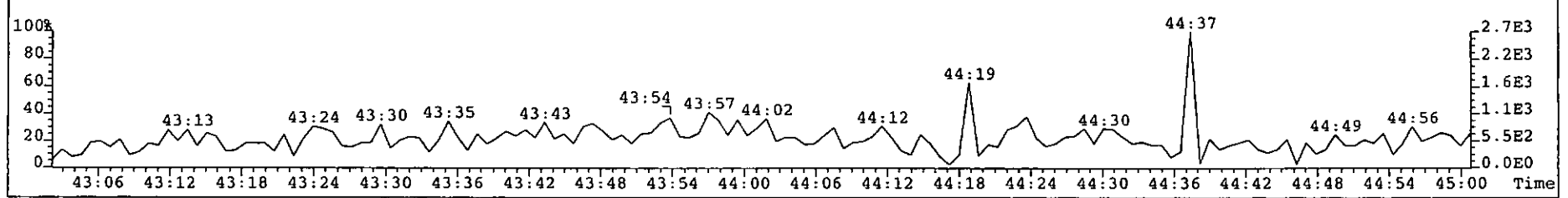
453.7830 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 177



455.7801 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2867



513.6775 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 176



1613/8290 Sample Summary


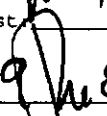
Analytical Perspectives

[Form: DF]

Client ID: BW-53-SS-090602 Filename: 090614P1 S: 10 Vial: 53 Acq: 14-JUN-09 16:32:48
 Lab ID: P1376_6875_006 GC column ID: db-5 Cal: MMI_DF_07012007A_25DEC08wt/Vol: 10.31
 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	4.08e+04	0.49 n	27:19	1.08	0.183	1033	2.5	0.0878	-
Ax	1,2,3,7,8-PeCDD	1.13e+05	1.37 y	32:50	1.00	0.684	709	2.5	0.100	-
Ax	1,2,3,4,7,8-HxCDD	2.28e+05	1.15 y	36:45	1.08	1.56	1170	2.5	0.151	-
Ax	1,2,3,6,7,8-HxCDD	9.74e+05	1.25 y	36:52	0.94	6.76	1170	2.5	0.161	-
Ax	1,2,3,7,8,9-HxCDD	4.31e+05	1.15 y	37:10	0.99	2.86	1170	2.5	0.171	-
Ax	1,2,3,4,6,7,8-HpCDD	1.18e+07	1.05 y	40:22	0.97	93.5	7777	2.5	1.13	-
Ax	OCDD	6.45e+07	0.91 y	43:57	1.06	734	9785	2.5	2.12	-
Ax2	OCDD-a	4.06e+06	2.58 y	43:56	0.06	775	2212	2.5	8.02	-
Ax	2,3,7,8-TCDF	3.78e+05	0.70 y	26:25	1.05	1.03	719	2.5	0.0391	-
Ax	1,2,3,7,8-PeCDF	1.08e+05	1.65 y	31:20	0.98	0.408	1623	2.5	0.144	-
Ax	2,3,4,7,8-PeCDF	2.22e+05	1.53 y	32:29	1.01	0.824	1623	2.5	0.131	-
Ax	1,2,3,4,7,8-HxCDF	1.89e+05	1.33 y	35:47	1.22	0.860	3042	2.5	0.181	-
Ax	1,2,3,6,7,8-HxCDF	1.84e+05	1.34 y	35:56	1.15	0.778	3042	2.5	0.176	-
Ax	2,3,4,6,7,8-HxCDF	2.91e+05	1.29 y	36:35	1.13	1.31	3042	2.5	0.178	-
Ax	1,2,3,7,8,9-HxCDF	6.72e+04	1.09 y	37:36	1.12	0.357	3042	2.5	0.234	-
Ax	1,2,3,4,6,7,8-HpCDF	3.31e+06	1.01 y	39:11	1.37	17.3	2171	2.5	0.132	-
Ax	1,2,3,4,7,8,9-HpCDF	1.40e+05	1.01 y	40:57	1.32	0.952	2171	2.5	0.193	-
Ax	OCDF	4.15e+06	0.86 y	44:11	0.94	35.6	2921	2.5	0.539	-
Ax2	OCDF-a	2.46e+05	2.25 y	44:11	0.05	37.6	2026	2.5	6.64	-
ES	13C-2,3,7,8-TCDD	4.00e+07	0.83 y	27:18	0.99	164	3271	2.5	0.250	84.5
ES	13C-1,2,3,7,8-PeCDD	3.22e+07	1.65 y	32:49	0.83	157	4442	2.5	0.403	81.0
ES	13C-1,2,3,4,7,8-HxCDD	2.62e+07	1.34 y	36:44	1.08	162	15483	2.5	1.75	83.4
ES	13C-1,2,3,6,7,8-HxCDD	2.96e+07	1.26 y	36:52	1.23	162	15483	2.5	1.55	83.3
ES	13C-1,2,3,7,8,9-HxCDD	2.95e+07	1.32 y	37:10	1.21	163	15483	2.5	1.57	84.0
ES	13C-1,2,3,4,6,7,8-HpCDD	2.52e+07	1.05 y	40:21	0.98	171	5904	2.5	0.736	88.3
ES	13C-OCDD	3.21e+07	0.85 y	43:56	0.66	326	6165	2.5	1.15	84.1
ES	13C-2,3,7,8-TCDF	6.83e+07	0.83 y	26:23	0.96	188	2654	2.5	0.153	97.1
ES	13C-1,2,3,7,8-PeCDF	5.20e+07	1.54 y	31:20	0.85	161	12204	2.5	0.789	82.9
ES	13C-2,3,4,7,8-PeCDF	5.17e+07	1.52 y	32:28	0.88	154	12204	2.5	0.761	79.5
ES	13C-1,2,3,4,7,8-HxCDF	3.49e+07	0.53 y	35:46	1.47	159	20694	2.5	1.72	81.7
ES	13C-1,2,3,6,7,8-HxCDF	3.99e+07	0.52 y	35:55	1.78	150	20694	2.5	1.43	77.5
ES	13C-2,3,4,6,7,8-HxCDF	3.80e+07	0.53 y	36:34	1.61	158	20694	2.5	1.58	81.5
ES	13C-1,2,3,7,8,9-HxCDF	3.28e+07	0.52 y	37:33	1.40	157	20694	2.5	1.81	80.7
ES	13C-1,2,3,4,6,7,8-HpCDF	2.72e+07	0.44 y	39:10	1.16	157	11828	2.5	1.25	80.9
ES	13C-1,2,3,4,7,8,9-HpCDF	2.15e+07	0.44 y	40:56	0.92	157	11828	2.5	1.57	80.7
ES	13C-OCDF	4.81e+07	0.90 y	44:11	1.04	310	12381	2.5	1.46	79.9
CS	37C1-2,3,7,8-TCDD	1.69e+07		27:19	0.99	69.7			0.342	89.8
CS	13C-1,2,3,4,7-PeCDD	3.00e+07	1.66 y	32:18	0.77	159	4442	2.5	0.437	81.9
CS	13C-1,2,3,4,6-PeCDF	5.11e+07	1.54 y	30:47	0.79	170	12204	2.5	0.847	87.6
CS	13C-1,2,3,4,6,9-HxCDF	3.64e+07	0.54 y	36:13	1.41	173	20694	2.5	1.80	89.0
CS	13C-1,2,3,4,6,8,9-HpCDF	2.38e+07	0.45 y	39:40	0.91	175	11828	2.5	1.59	90.2
NA	n/a	*	* n	NotF»	Div0	*	2844	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	4.76e+07	0.83 y	26:37	-	13.2	3271	2.5	-	-
JS	13C-1,2,3,4-TCDF	7.35e+07	0.82 y	24:58	-	12.8	2654	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.45e+07	1.25 y	37:03	-	6.46	1338	2.5	-	-

0.49 n
 1.37 y
 1.15 y
 1.25 y
 1.15 y
 1.05 y
 0.91 y
 2.58 y
 0.70 y
 1.65 y
 1.53 y
 1.33 y
 1.34 y
 1.29 y
 1.09 y
 1.01 y
 1.01 y
 0.86 y
 2.25 y
 0.83 y
 1.65 y
 1.34 y
 1.26 y
 1.32 y
 1.05 y
 0.85 y
 0.83 y
 1.54 y
 1.52 y
 0.53 y
 0.52 y
 1.78 y
 0.53 y
 0.52 y
 0.44 y
 0.44 y
 0.90 y
 1.66 y
 1.54 y
 0.54 y
 0.45 y
 0.83 y
 0.82 y
 1.25 y

Analyst: 
 Date: 
 19 Jun 09

SS	37C1-2,3,7,8-TCDD	1.69e+07		27:19	1.00	82.0		0.410	106
SS	13C-1,2,3,4,7-PeCDD	3.00e+07	1.66 y	32:18	0.93	195	4442 2.5	0.677	101
SS	13C-1,2,3,4,6-PeCDF	5.11e+07	1.54 y	30:47	0.94	204	12204 2.5	1.14	105
SS	13C-1,2,3,4,6,9-HxCDF	3.64e+07	0.54 y	36:13	0.80	221	20694 2.5	1.72	114
SS	13C-1,2,3,4,6,8,9-HpCDF	2.38e+07	0.45 y	39:40	0.79	214	11828 2.5	1.24	111
SBS	2,4,6,8-TCDF	4.29e+05	0.76 y	22:30	1.05	1.16	719 2.5	0.0391	-
Ay	1,3,6,8-TCDD	6.48e+05	0.79 y	23:29	1.08	2.90	1033 2.5	0.0878	-
Ay	1,2,3,9-TCDD	1.57e+04	0.94 y	27:10	1.08	0.0705	1033 2.5	0.0878	-
Ay	1,2,8,9-TCDD	*	* n	NotF>	1.08	*	1033 2.5	0.0878	-
Ay	1,2,4,7,9-PeCDD	4.88e+05	1.57 y	30:16	1.00	2.94	709 2.5	0.100	-
Ay	1,2,3,8,9-PeCDD	4.96e+04	1.04 y	33:18	1.00	0.299	709 2.5	0.100	-
Ay	1,2,4,6,7,9-HxCDD	2.07e+06	1.24 y	35:03	1.00	14.1	1170 2.5	0.161	-
Ay	1,2,3,4,6,7,9-HpCDD	1.57e+07	1.03 y	39:30	0.97	124	7777 2.5	1.13	-
Ay	1,3,6,8-TCDF	1.40e+05	0.76 y	21:17	1.05	0.380	719 2.5	0.0391	-
Ay	2,3,4,8-TCDF	8.11e+04	0.69 y	26:18	1.05	0.220	719 2.5	0.0391	-
Ay	1,2,8,9-TCDF	1.09e+05	0.90 y	28:28	1.05	0.295	719 2.5	0.0391	-
Ay	1,3,4,6,8-PeCDF	9.52e+05	1.81 y	28:28	1.05	2.58	664 2.5	0.0361	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF>	1.00	*	1623 2.5	0.137	-
Ay	1,2,3,4,6,8-HxCDF	6.58e+05	1.27 y	34:23	1.15	3.04	3042 2.5	0.190	-
Tot	Total Tetra-Dioxins	2.33e+06	0.79 y	23:29	1.08	10.5	1033 2.5	0.0878	-
Tot	Total Penta-Dioxins	1.58e+06	1.57 y	30:16	1.00	9.52	709 2.5	0.100	-
Tot	Total Hexa-Dioxins	7.85e+06	1.24 y	35:03	1.00	53.5	1170 2.5	0.161	-
Tot	Total Hepta-Dioxins	2.75e+07	1.03 y	39:30	0.97	218	7777 2.5	1.13	-
Tot	Total Tetra-Furans	3.31e+06	0.76 y	21:17	1.05	8.97	719 2.5	0.0391	-
Tot	Total Penta-Furans	1.60e+06	1.45 y	30:03	1.00	5.97	1623 2.5	0.137	-
Tot	Total Hexa-Furans	5.57e+06	1.27 y	34:23	1.15	25.7	3042 2.5	0.190	-
Tot	Total Hepta-Furans	9.09e+06	1.01 y	39:11	1.35	51.6	2171 2.5	0.159	-
Tot	TCDD EMPC	2.62e+06	0.79 y	23:29	1.08	11.8	1033 2.5	0.0878	-
Tot	PeCDD EMPC	1.80e+06	1.57 y	30:16	1.00	10.9	709 2.5	0.100	-
Tot	HxCDD EMPC	7.96e+06	1.24 y	35:03	1.00	54.2	1170 2.5	0.161	-
Tot	HpCDD EMPC	2.75e+07	1.03 y	39:30	0.97	218	7777 2.5	1.13	-
Tot	TCDF EMPC	4.15e+06	0.76 y	21:17	1.05	11.3	719 2.5	0.0391	-
Tot	PeCDF EMPC	1.71e+06	1.45 y	30:03	1.00	6.40	1623 2.5	0.137	-
Tot	HxCDF EMPC	5.69e+06	1.27 y	34:23	1.15	26.2	3042 2.5	0.190	-
Tot	HpCDF EMPC	9.17e+06	1.01 y	39:11	1.35	52.0	2171 2.5	0.159	-
AS	13C-1,3,6,8-TCDD	4.23e+07	0.83 y	23:27	1.09	159	3271 2.5	0.228	81.8
AS	13C-1,3,6,8-TCDF	8.12e+07	0.81 y	21:16	1.09	197	2654 2.5	0.134	101
DPE	HxCDFE	*		NotF>	-	*	-	-	-
DPE	HpCDFE	*		NotF>	-	*	-	-	-
DPE	OCDFE	*		NotF>	-	*	-	-	-
DPE	NCDFE	*		NotF>	-	*	-	-	-
DPE	DCDFE	*		NotF>	-	*	-	-	-
LMC	Fn1 check mass	*		NotF>	-	*	-	-	-
LMC	Fn2 check mass	*		NotF>	-	*	-	-	-
LMC	Fn3 check mass	*		NotF>	-	*	-	-	-
LMC	Fn4 check mass	*		NotF>	-	*	-	-	-
LMC	Fn5 check mass	*		NotF>	-	*	-	-	-

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

Total Conc.: 11.752 Unnamed Conc.: 8.596 Homolog count: 12

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:29	2.855e+05	n	3.625e+05	n	0.79 y	6.480e+05	6.480e+05	6.98e+01	y	2.90 1,3,6,8-TCDD
23:51	1.683e+05	n	2.112e+05	n	0.80 y	3.795e+05	3.795e+05	4.11e+01	y	1.70
24:18	2.343e+04	n	2.735e+04	n	0.86 y	5.078e+04	5.078e+04	5.21e+00	y	0.227
25:08	3.553e+05	n	4.468e+05	n	0.80 y	8.021e+05	8.021e+05	9.68e+01	y	3.59
25:23	4.384e+04	n	5.159e+04	n	0.85 y	9.542e+04	9.542e+04	1.20e+01	y	0.427
25:35	4.052e+04	n	5.731e+04	n	0.71 y	9.783e+04	9.783e+04	1.39e+01	y	0.438
26:14	1.845e+04	n	3.337e+04	n	0.55 n	5.182e+04	4.241e+04	7.96e+00	y	0.190
26:37	9.582e+04	n	1.075e+05	n	0.89 n	2.034e+05	1.904e+05	2.48e+01	y	0.853
27:02	1.042e+05	y	1.218e+05	y	0.86 y	2.261e+05	2.261e+05	2.69e+01	y	1.01
27:10	8.370e+03	y	8.896e+03	y	0.94 n	1.727e+04	1.575e+04	2.83e+00	y	0.0705 1,2,3,9-TCDD
27:19	1.776e+04	n	3.635e+04	n	0.49 n	5.411e+04	4.083e+04	1.14e+01	y	0.183 2,3,7,8-TCDD
27:40	1.406e+04	y	2.060e+04	y	0.68 y	3.466e+04	3.466e+04	5.24e+00	y	0.155

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

Total Conc.: 10.885 Unnamed Conc.: 6.959 Homolog count: 10

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:16	2.978e+05	n	1.898e+05	n	1.57 y	4.876e+05	4.876e+05	5.79e+01	y	2.94 1,2,4,7,9-PeCDD
30:49	7.029e+04	n	5.288e+04	n	1.33 y	1.232e+05	1.232e+05	2.04e+01	y	0.743
31:23	2.045e+05	n	1.279e+05	n	1.60 y	3.324e+05	3.324e+05	5.18e+01	y	2.01
31:35	7.763e+04	n	5.409e+04	n	1.44 y	1.317e+05	1.317e+05	1.74e+01	y	0.795
31:41	1.621e+05	n	9.204e+04	n	1.76 y	2.541e+05	2.541e+05	4.25e+01	y	1.53
31:58	8.819e+04	n	6.968e+04	n	1.27 n	1.579e+05	1.451e+05	1.85e+01	y	0.876
32:20	8.179e+04	n	5.365e+04	n	1.52 y	1.354e+05	1.354e+05	2.15e+01	y	0.818
32:50	6.552e+04	n	4.781e+04	n	1.37 y	1.133e+05	1.133e+05	2.20e+01	y	0.684 1,2,3,7,8-PeCDD
32:56	1.876e+04	n	1.515e+04	n	1.24 n	3.391e+04	3.087e+04	8.34e+00	y	0.186
33:18	3.013e+04	n	2.894e+04	n	1.04 n	5.906e+04	4.956e+04	1.16e+01	y	0.299 1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

Total Conc.: 54.234 Unnamed Conc.: 28.981 Homolog count: 8

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:03	1.143e+06	n	9.251e+05	n	1.24 y	2.068e+06	2.068e+06	2.29e+02	y	14.1 1,2,4,6,7,9-HxCDD
35:42	4.203e+05	n	3.534e+05	n	1.19 y	7.737e+05	7.737e+05	9.70e+01	y	5.26

36:00	1.727e+06	n	1.434e+06	n	1.20	y	3.161e+06	3.161e+06	3.19e+02	y	21.5
36:07	1.139e+05	y	9.665e+04	y	1.18	y	2.105e+05	2.105e+05	2.36e+01	y	1.43
36:45	1.220e+05	y	1.063e+05	y	1.15	y	2.283e+05	2.283e+05	2.84e+01	y	1.56 1,2,3,4,7,8-HxCDD
36:52	5.416e+05	y	4.329e+05	y	1.25	y	9.745e+05	9.745e+05	1.19e+02	y	6.76 1,2,3,6,7,8-HxCDD
37:04	6.317e+04	y	6.042e+04	y	1.05	n	1.236e+05	1.141e+05	1.62e+01	y	0.776
37:10	2.303e+05	y	2.004e+05	y	1.15	y	4.307e+05	4.307e+05	4.66e+01	y	2.86 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDD EMPC Function: 4 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

Total Conc.: 217.69 Unnamed Conc.: * Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:30	7.960e+06	n	7.711e+06	n	1.03	y	1.567e+07	1.567e+07	3.00e+02	y	124 1,2,3,4,6,7,9-HpCDD
40:22	6.027e+06	n	5.766e+06	n	1.05	y	1.179e+07	1.179e+07	2.04e+02	y	93.5 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: TCDF EMPC Function: 1 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

Total Conc.: 11.272 Unnamed Conc.: 8.185 Homolog count: 19

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
21:17	6.039e+04	n	7.975e+04	n	0.76	y	1.401e+05	1.401e+05	2.97e+01	y	0.380 1,3,6,8-TCDF
21:51	4.110e+04	n	5.962e+04	n	0.69	y	1.007e+05	1.007e+05	1.82e+01	y	0.273
22:30	1.859e+05	n	2.432e+05	n	0.76	y	4.291e+05	4.291e+05	5.98e+01	y	1.16 2,4,6,8-TCDF
23:01	2.110e+05	y	2.694e+05	y	0.78	y	4.804e+05	4.804e+05	5.80e+01	y	1.30
23:27	1.903e+05	n	2.308e+05	n	0.82	y	4.211e+05	4.211e+05	4.24e+01	y	1.14
23:53	1.079e+05	n	1.203e+05	n	0.90	n	2.282e+05	2.129e+05	3.69e+01	y	0.578
24:02	4.472e+04	n	5.014e+04	n	0.89	n	9.486e+04	8.875e+04	1.76e+01	y	0.241
24:18	5.902e+04	n	8.482e+04	n	0.70	y	1.438e+05	1.438e+05	2.54e+01	y	0.390
24:36	4.208e+04	n	4.426e+04	y	0.95	n	8.634e+04	7.834e+04	1.47e+01	y	0.213
24:44	6.324e+04	n	7.892e+04	y	0.80	y	1.422e+05	1.422e+05	2.66e+01	y	0.386
24:57	2.228e+05	n	2.763e+05	y	0.81	y	4.990e+05	4.990e+05	5.09e+01	y	1.35
25:29	1.245e+05	y	1.349e+05	n	0.92	n	2.595e+05	2.388e+05	3.95e+01	y	0.648
25:40	4.523e+04	y	5.844e+04	n	0.77	y	1.037e+05	1.037e+05	1.70e+01	y	0.281
25:57	3.724e+04	y	4.829e+04	n	0.77	y	8.554e+04	8.554e+04	1.39e+01	y	0.232
26:11	6.524e+04	n	6.711e+04	n	0.97	n	1.324e+05	1.188e+05	1.93e+01	y	0.322
26:18	3.310e+04	n	4.804e+04	n	0.69	y	8.114e+04	8.114e+04	1.67e+01	y	0.220 2,3,4,8-TCDF
26:29	1.558e+05	n	2.221e+05	n	0.70	y	3.780e+05	3.780e+05	7.67e+01	y	1.03 2,3,7,8-TCDF
26:47	1.326e+05	n	1.693e+05	n	0.78	y	3.019e+05	3.019e+05	5.11e+01	y	0.819
28:28	5.508e+04	n	6.146e+04	n	0.90	n	1.165e+05	1.088e+05	1.90e+01	y	0.295 1,2,8,9-TCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: PeCDF EMPC Function: 2 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

Total Conc.: 6.4034 Unnamed Conc.: 5.172 Homolog count: 8

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:03	9.597e+04	y	6.613e+04	y	1.45	y	1.621e+05	1.621e+05	9.36e+00	y	0.607	
30:13	3.640e+05	y	2.685e+05	y	1.36	y	6.325e+05	6.325e+05	2.80e+01	y	2.37	
30:53	1.637e+05	y	1.112e+05	n	1.47	y	2.749e+05	2.749e+05	1.40e+01	y	1.03	
31:08	2.977e+04	y	2.174e+04	n	1.37	y	5.152e+04	5.152e+04	3.50e+00	y	0.193	
31:20	6.704e+04	n	4.059e+04	n	1.65	y	1.076e+05	1.076e+05	8.44e+00	y	0.408	1,2,3,7,8-PeCDF
31:38	8.218e+04	y	6.181e+04	n	1.33	y	1.440e+05	1.440e+05	8.38e+00	y	0.539	
32:21	7.049e+04	y	5.391e+04	y	1.31	n	1.244e+05	1.160e+05	9.39e+00	y	0.434	
32:29	1.345e+05	y	8.793e+04	y	1.53	y	2.224e+05	2.224e+05	1.16e+01	y	0.824	2,3,4,7,8-PeCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HxCDF EMPC Function: 3 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

Total Conc.: 26.205 Unnamed Conc.: 19.859 Homolog count: 9

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:23	3.678e+05	n	2.901e+05	n	1.27	y	6.579e+05	6.579e+05	2.78e+01	y	3.04	1,2,3,4,6,8-HxCDF
34:35	1.097e+06	n	9.131e+05	n	1.20	y	2.010e+06	2.010e+06	8.91e+01	y	9.29	
35:01	3.087e+04	n	2.935e+04	n	1.05	n	6.022e+04	5.576e+04	4.08e+00	y	0.258	
35:15	1.214e+06	n	9.600e+05	n	1.26	y	2.174e+06	2.174e+06	1.00e+02	y	10.0	
35:40	3.947e+04	n	2.595e+04	n	1.52	n	6.542e+04	5.812e+04	2.56e+00	y	0.269	
35:47	1.078e+05	n	8.084e+04	n	1.33	y	1.886e+05	1.886e+05	8.75e+00	y	0.860	1,2,3,4,7,8-HxCDF
35:56	1.053e+05	n	7.871e+04	n	1.34	y	1.840e+05	1.840e+05	6.93e+00	y	0.778	1,2,3,6,7,8-HxCDF
36:35	1.638e+05	n	1.268e+05	n	1.29	y	2.906e+05	2.906e+05	1.11e+01	y	1.31	2,3,4,6,7,8-HxCDF
37:36	3.510e+04	n	3.214e+04	n	1.09	y	6.724e+04	6.724e+04	3.22e+00	y	0.357	1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]												

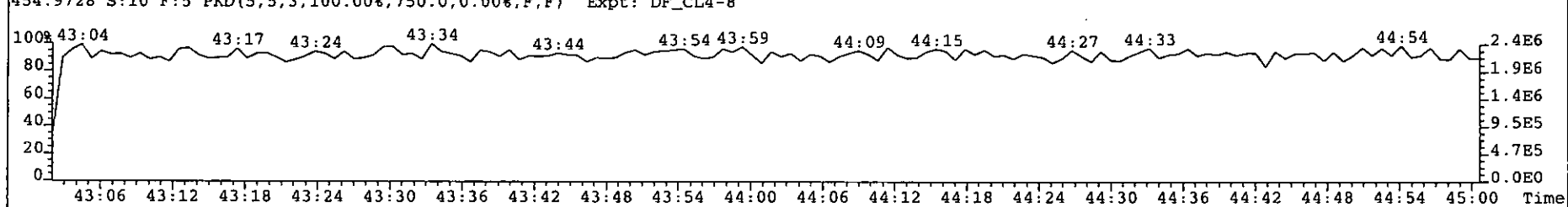
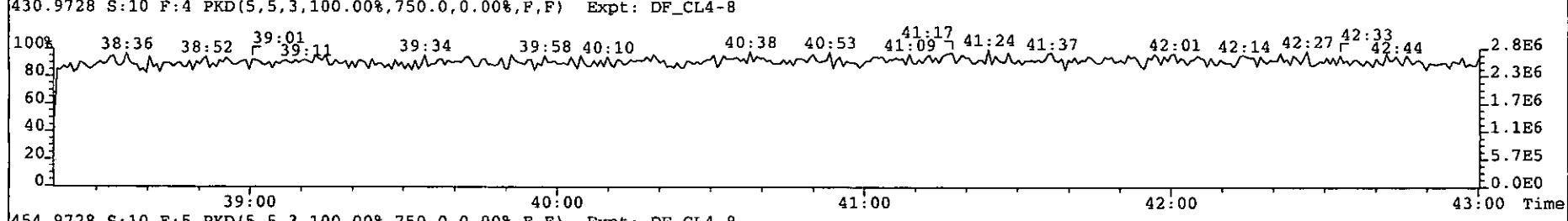
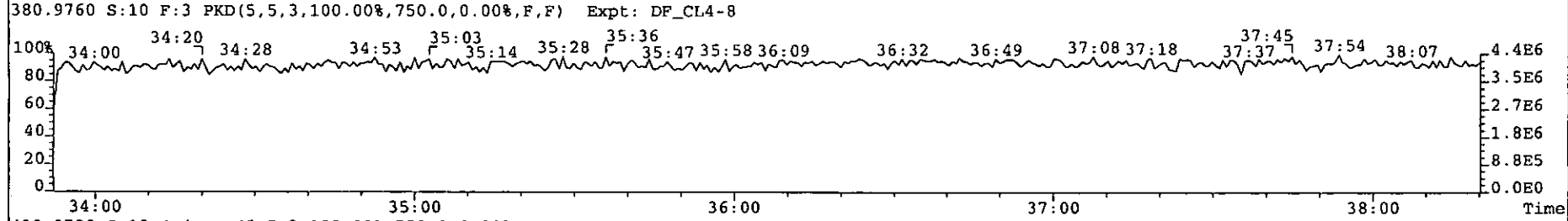
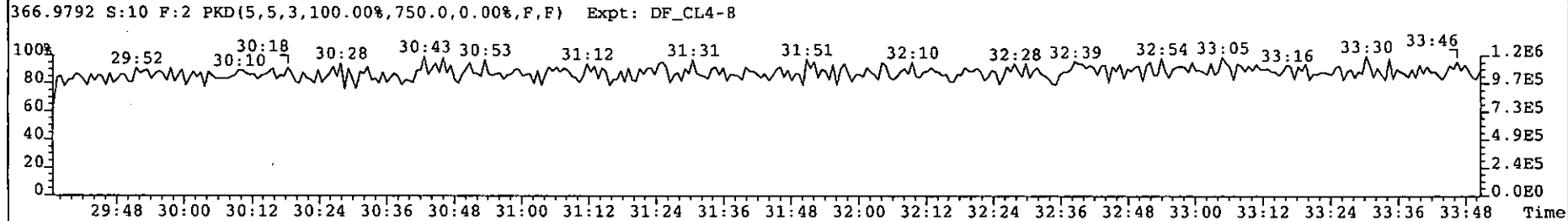
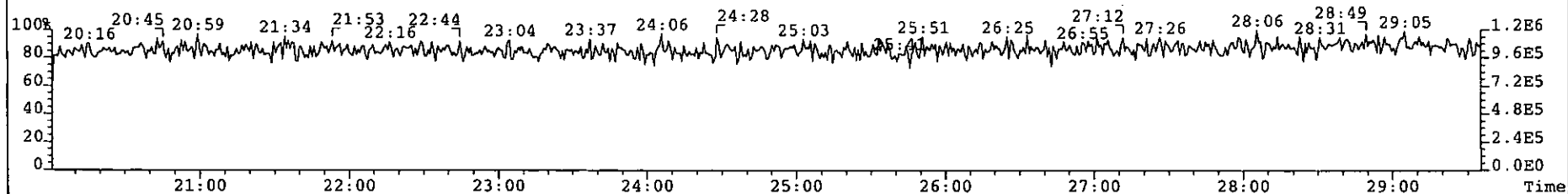
Totals class: HpCDF EMPC Function: 4 Run #: 17 Checkcode: 1661
 File Name: 090614P1 Sample #: 10 Sample text: P1376_6875_006 BW-53-SS-090602 10.31g

Acquired: 14-JUN-09 16:32:48 Processed: 15-JUN-09 09:15:13

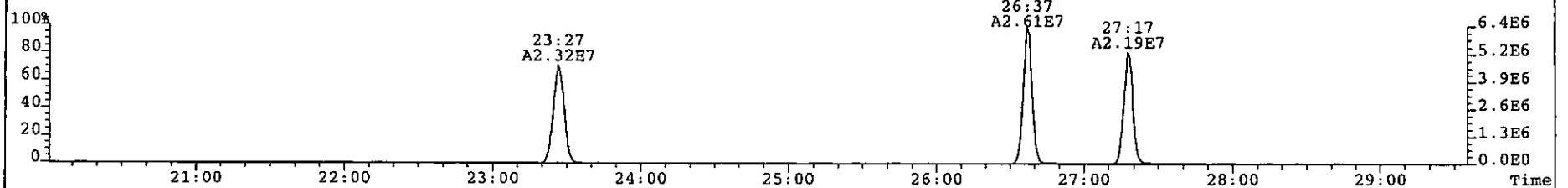
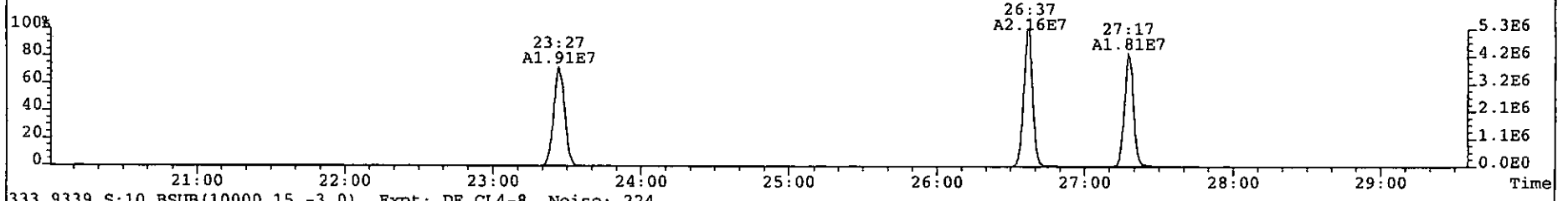
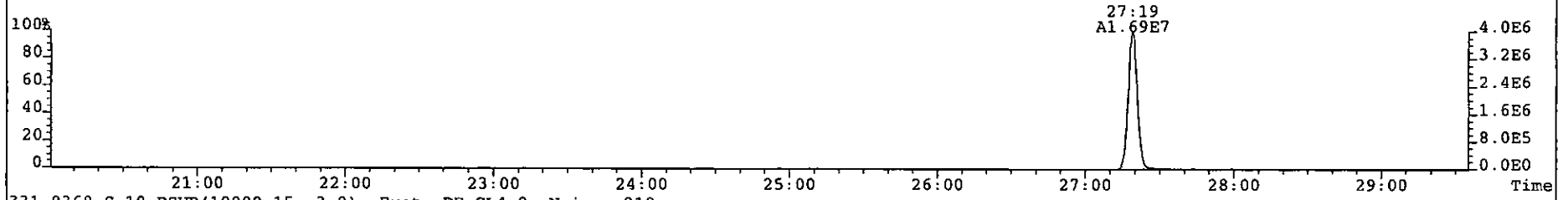
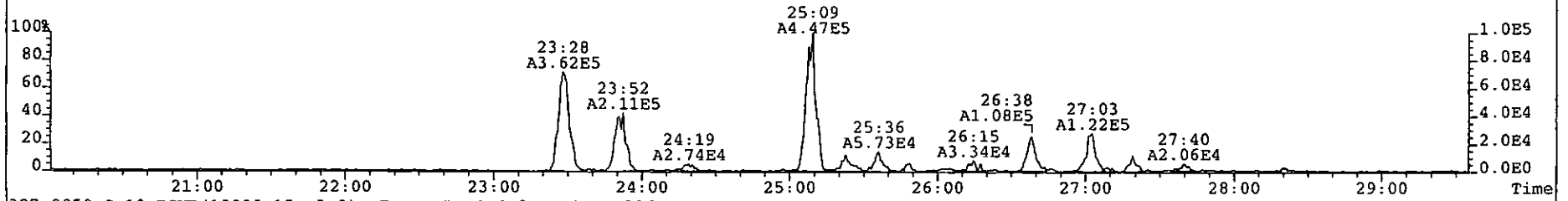
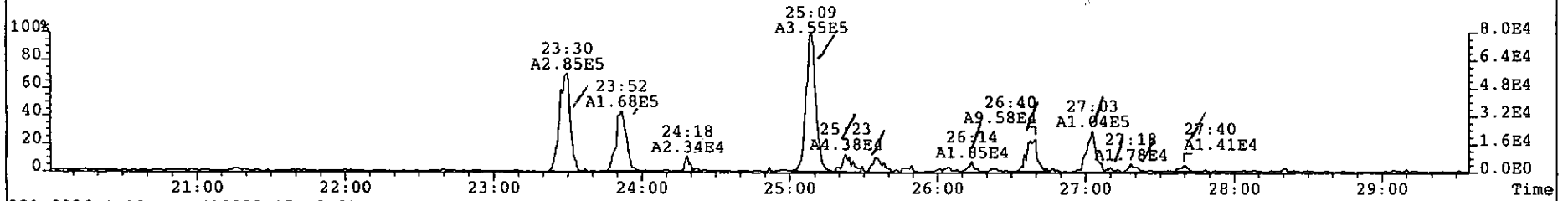
Total Conc.: 52.039 Unnamed Conc.: 33.797 Homolog count: 4

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:11	1.664e+06	n	1.646e+06	n	1.01	y	3.311e+06	3.311e+06	2.22e+02	y	17.3	1,2,3,4,6,7,8-HpCDF
39:28	4.813e+04	y	3.943e+04	y	1.22	n	8.756e+04	8.044e+04	5.27e+00	y	0.476	
39:41	2.831e+06	n	2.805e+06	n	1.01	y	5.636e+06	5.636e+06	3.92e+02	y	33.3	
40:57	7.033e+04	n	6.938e+04	y	1.01	y	1.397e+05	1.397e+05	1.11e+01	y	0.952	1,2,3,4,7,8,9-HpCDF

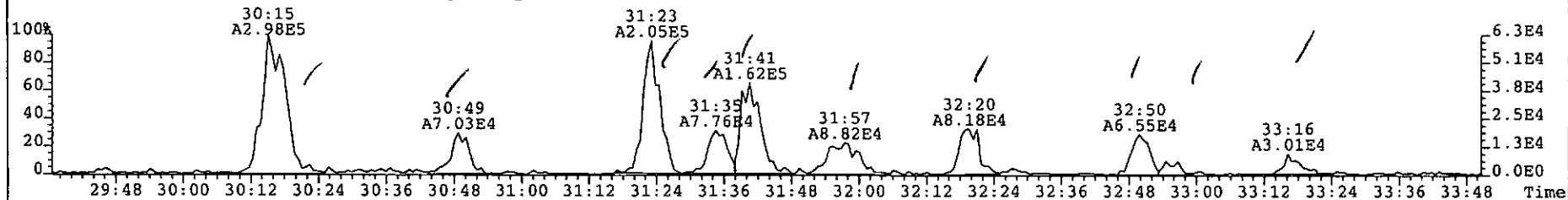
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SF-090602 10.31g Vial# 53 File Text: AP DB5
316.9824 S:10 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



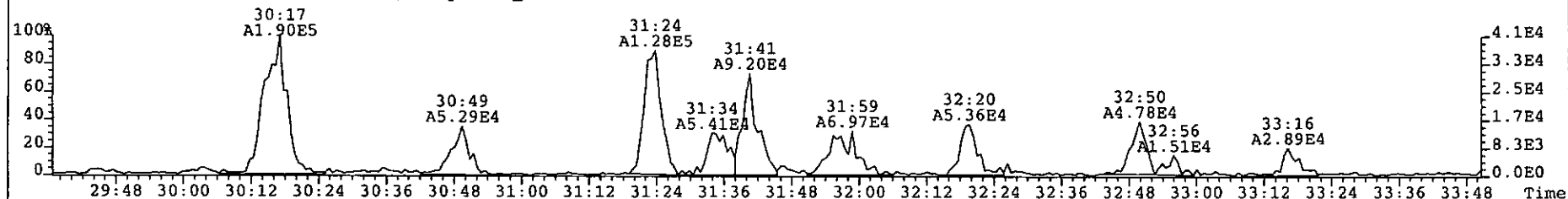
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
319.8965 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 229



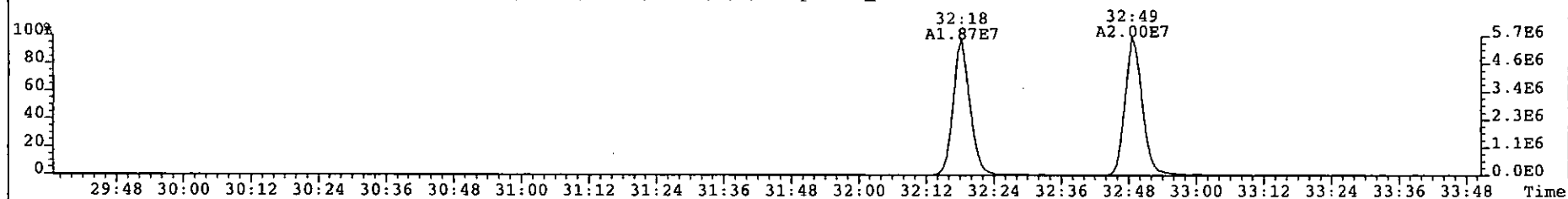
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
355.8546 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 219



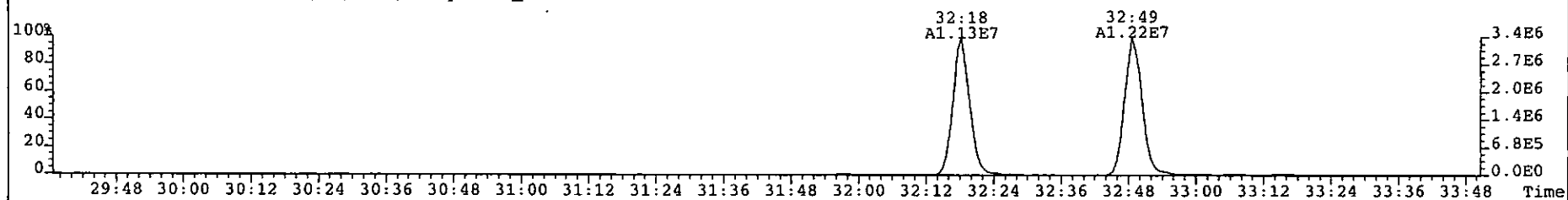
357.8517 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 229



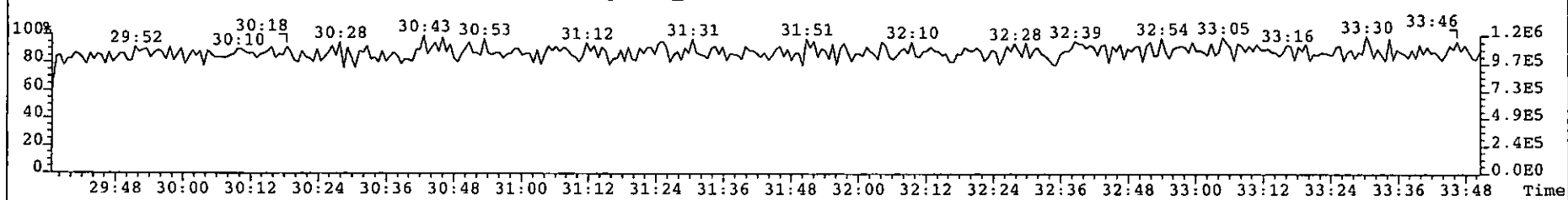
367.8949 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 257



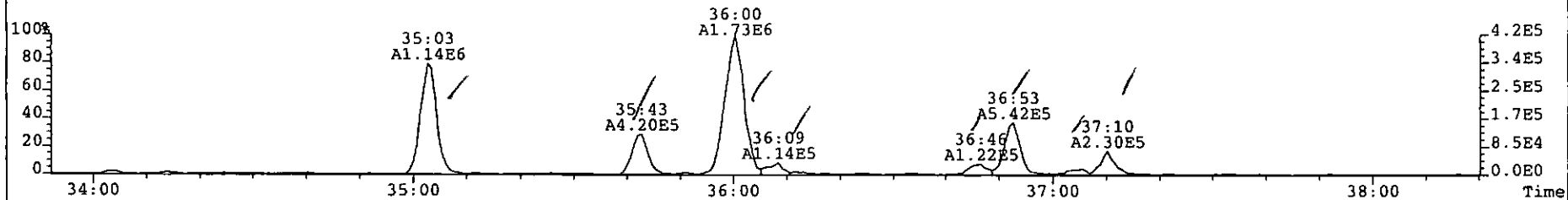
369.8919 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 268



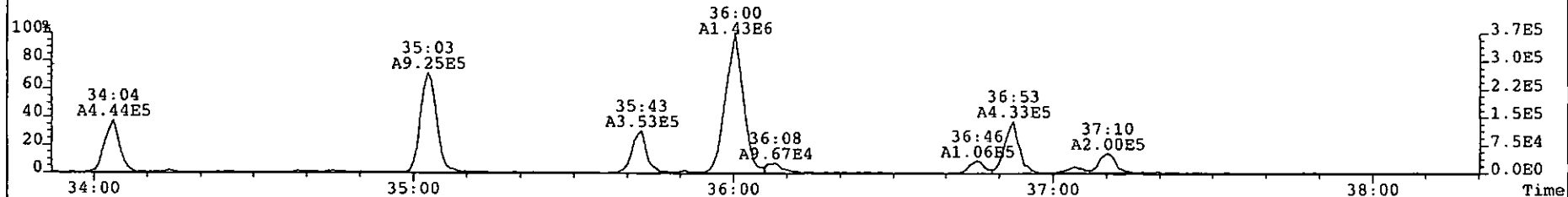
366.9792 S:10 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



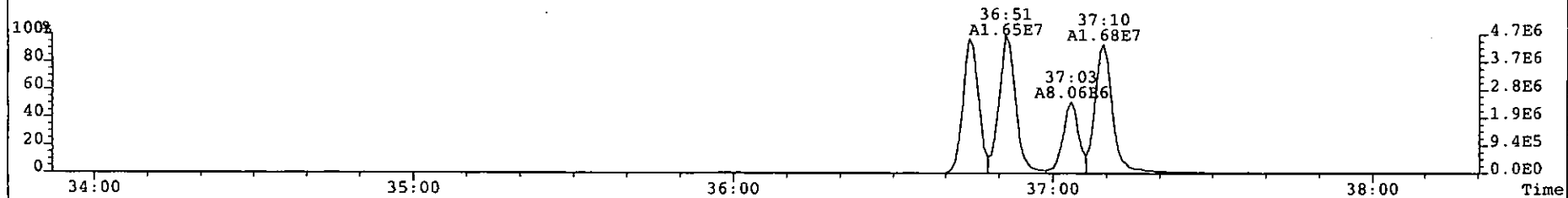
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
389.8156 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 446



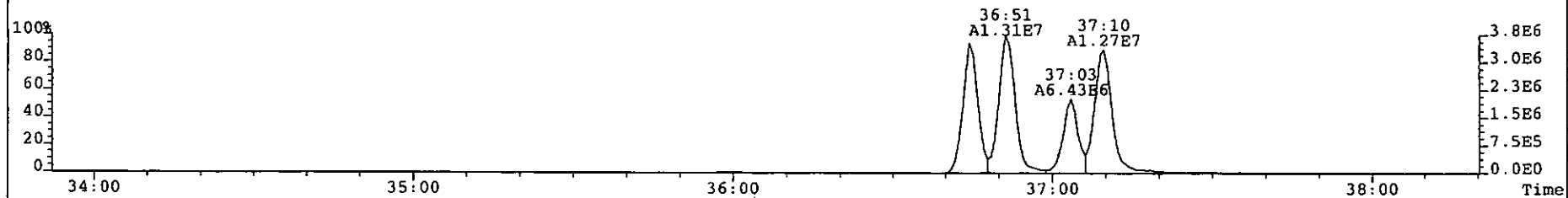
391.8127 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 411



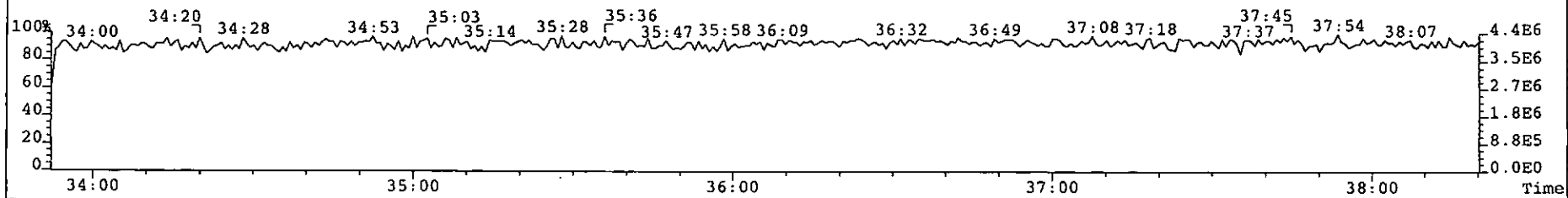
401.8559 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 203



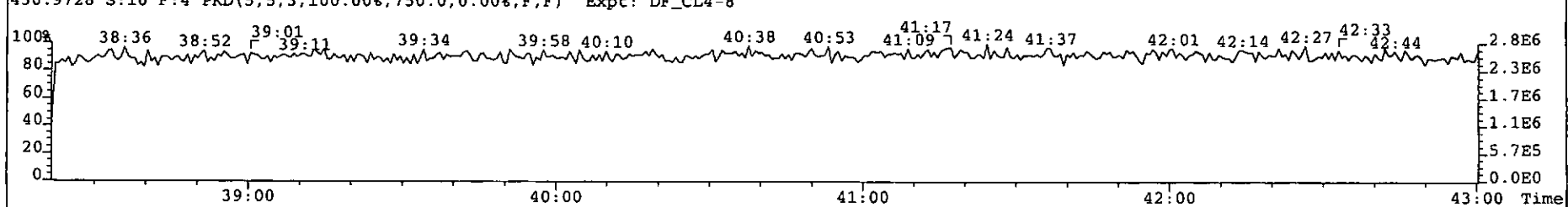
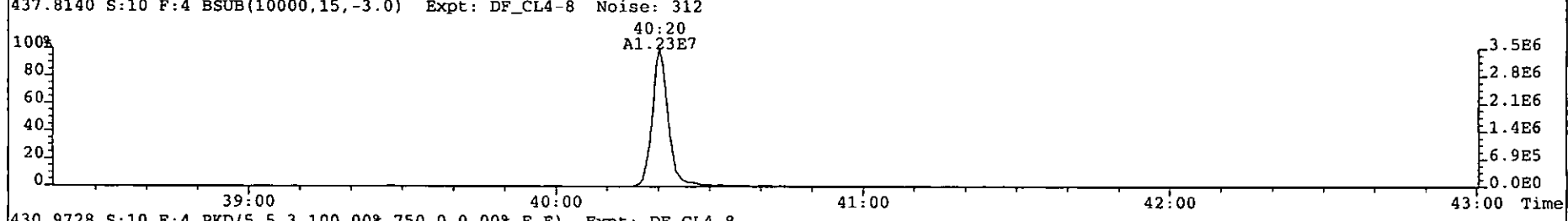
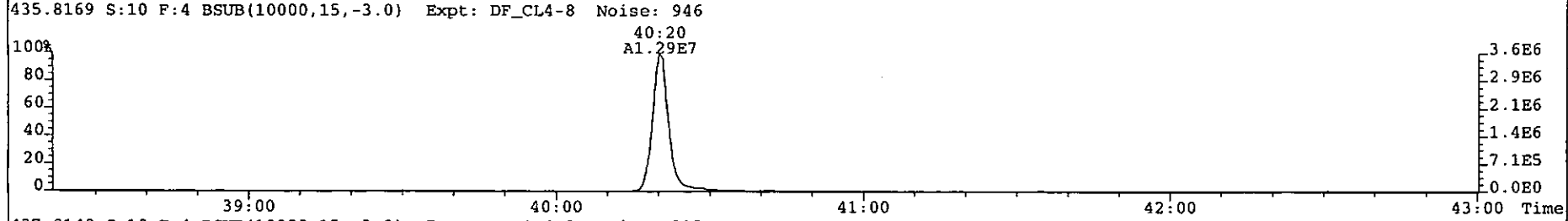
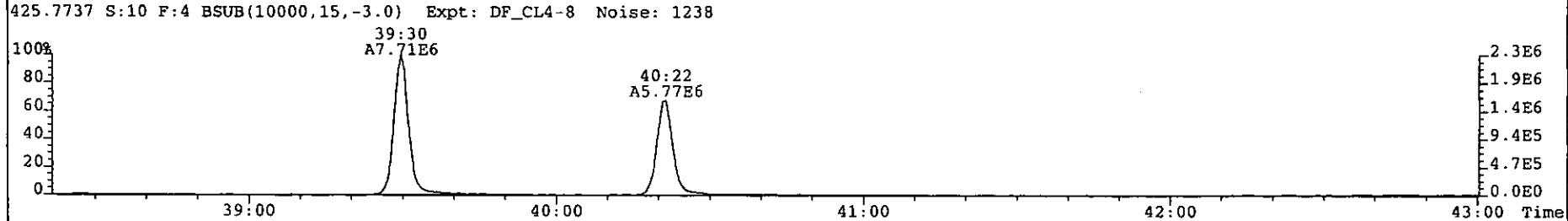
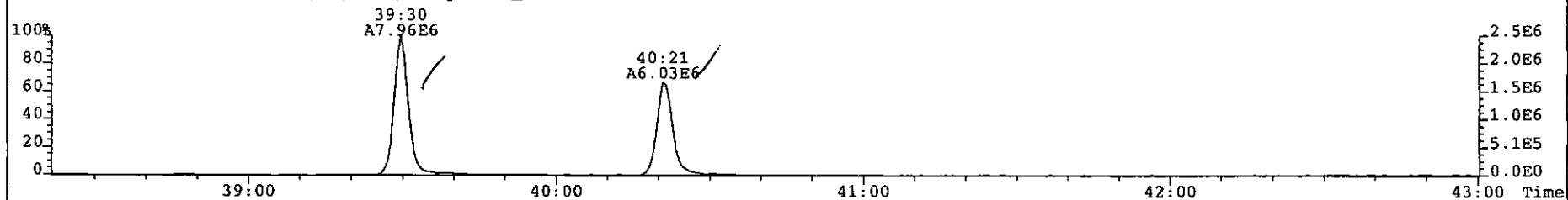
403.8530 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 190



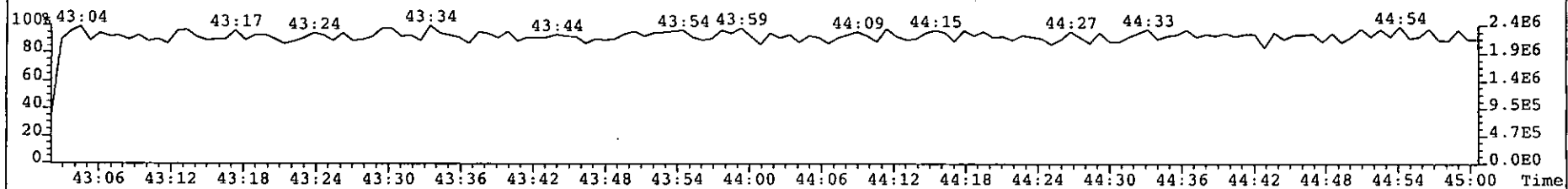
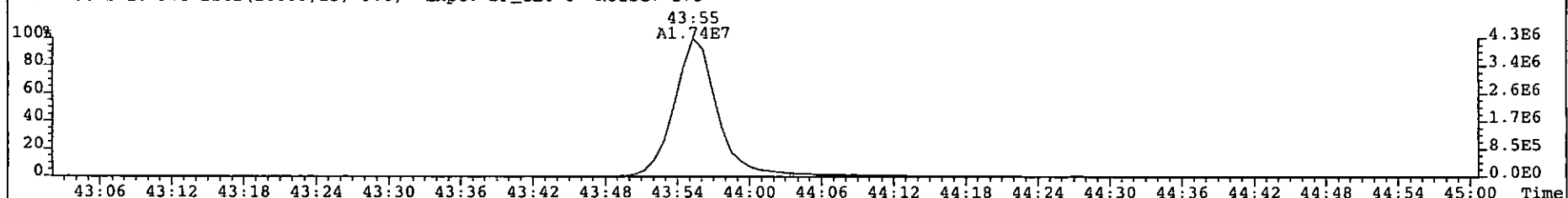
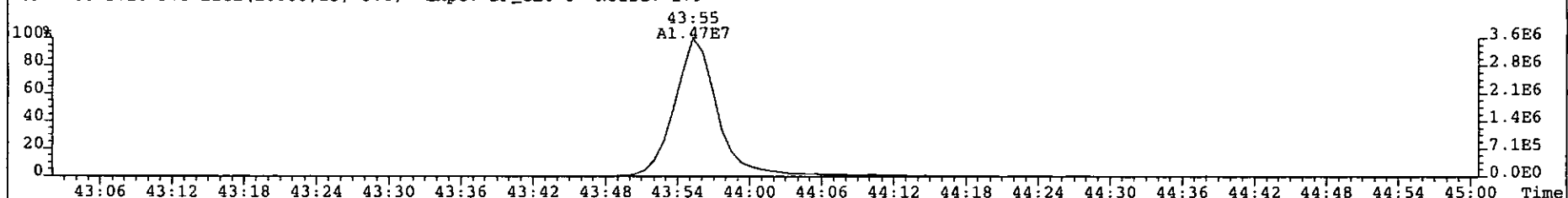
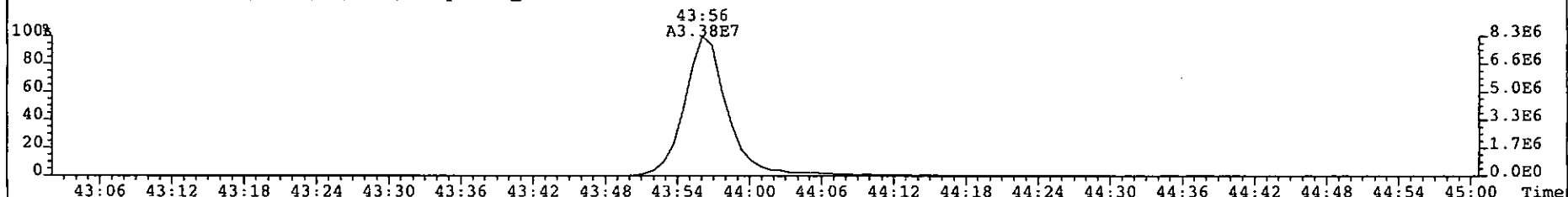
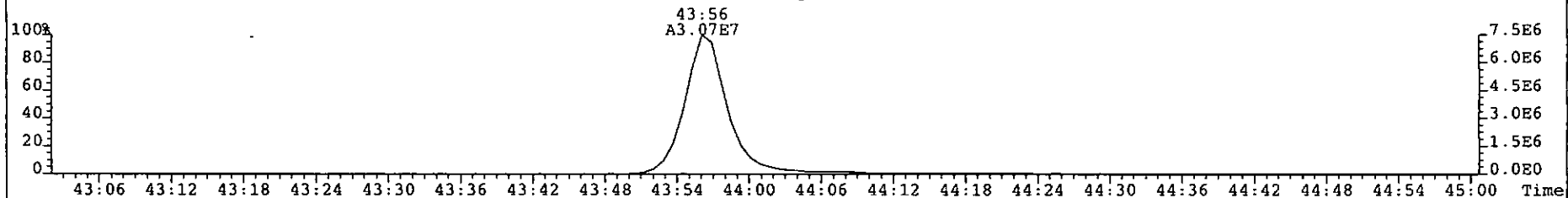
380.9760 S:10 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



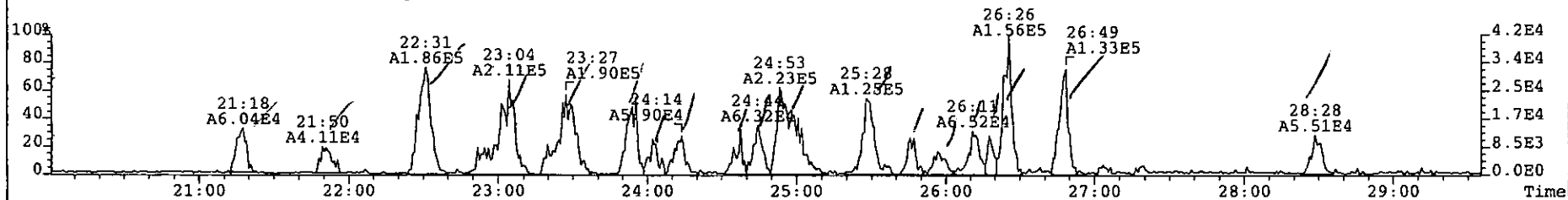
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
423.7767 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1409



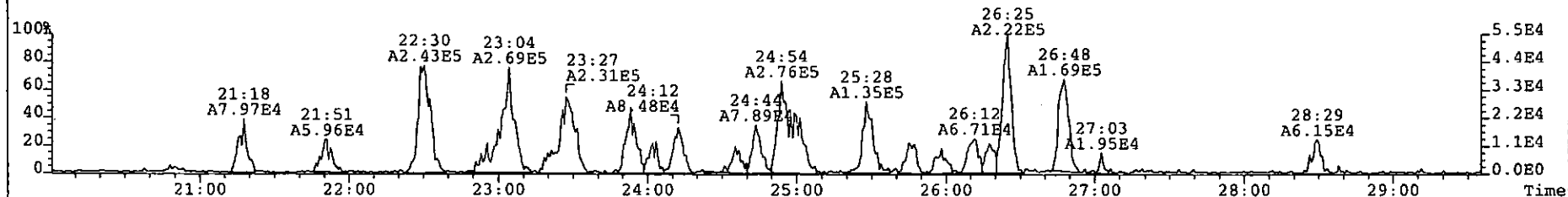
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 427



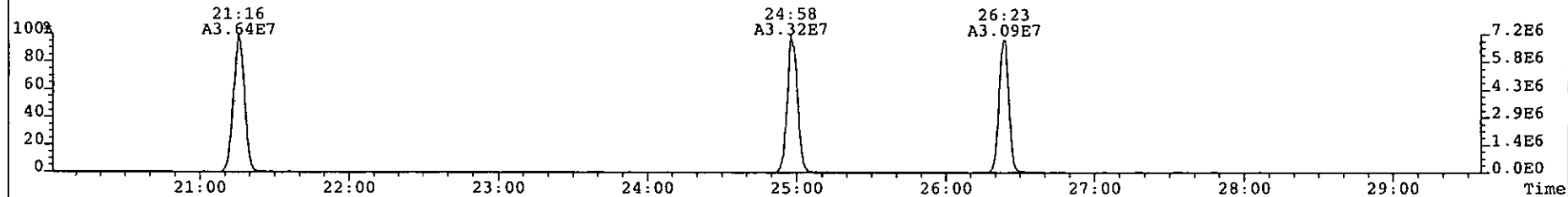
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
303.9016 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 227



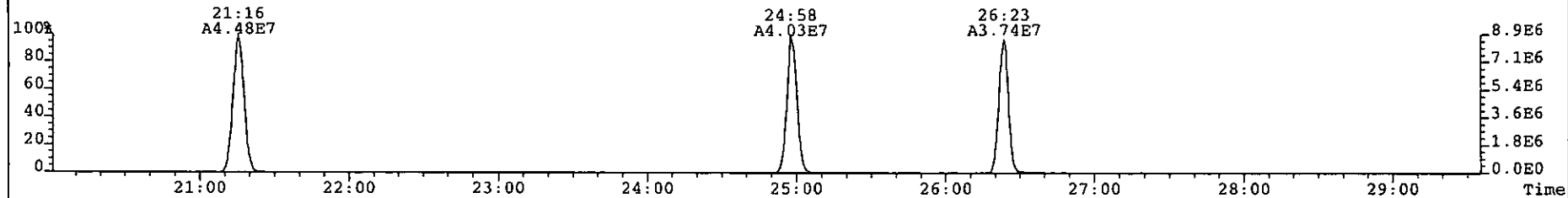
305.8987 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 239



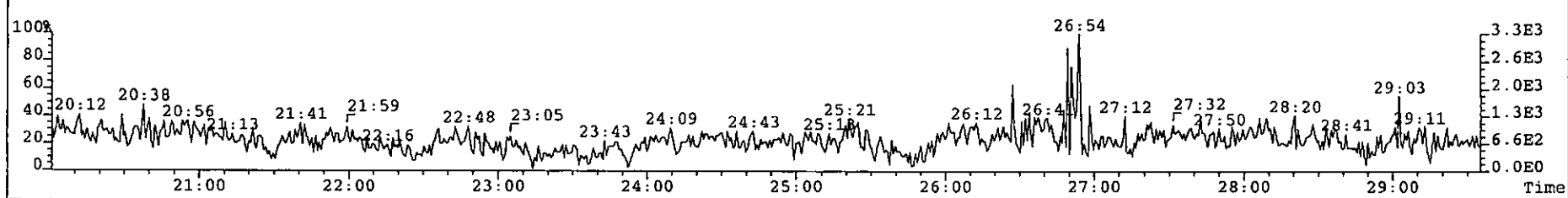
315.9419 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 246



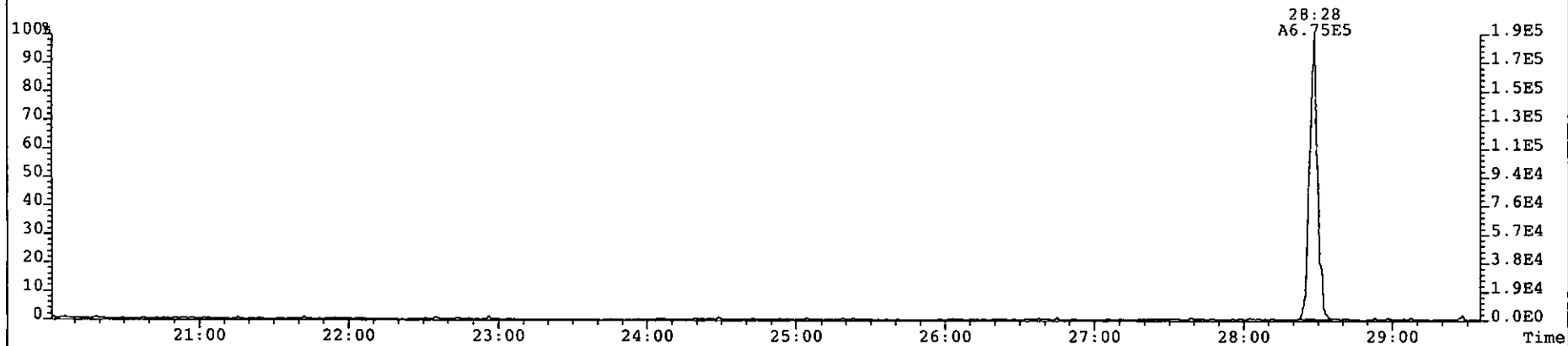
317.9389 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 246



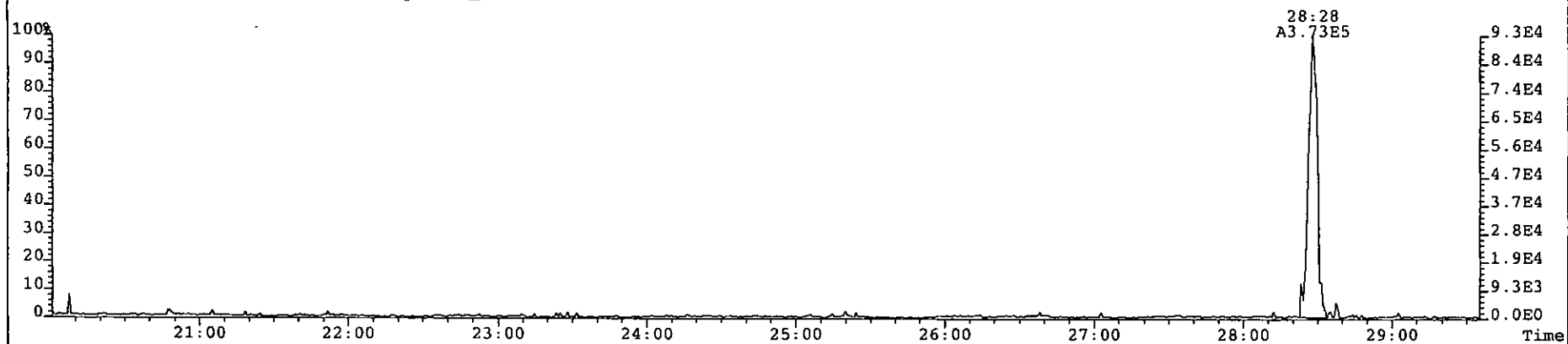
375.8364 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 239



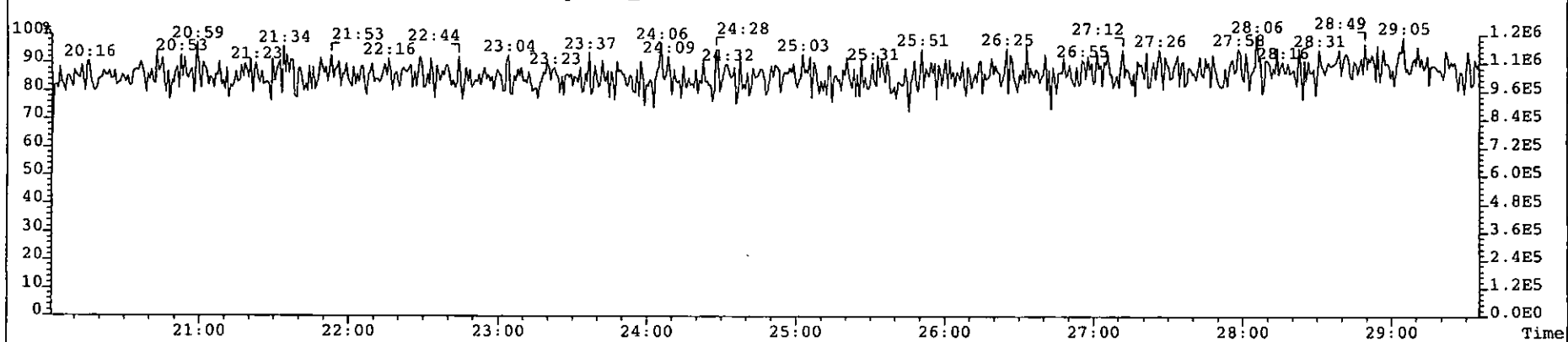
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DBS
339.8597 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 227



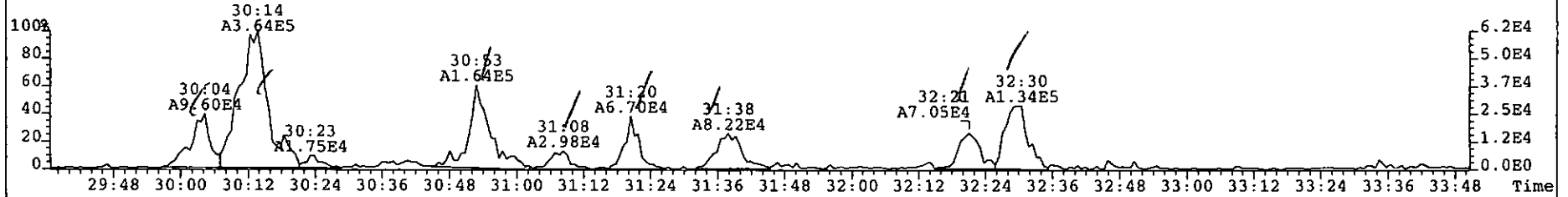
341.8568 S:10 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 215



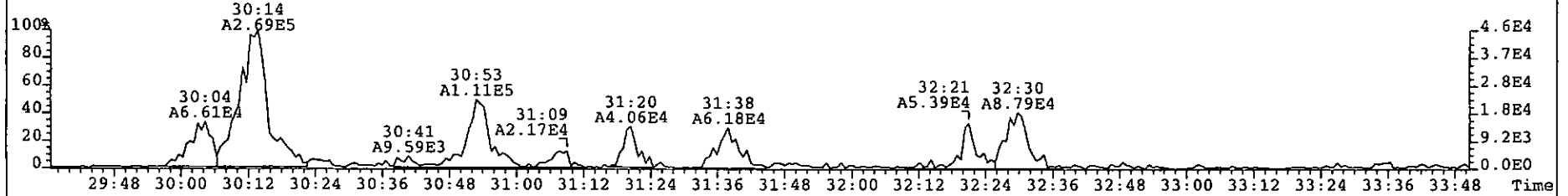
316.9824 S:10 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



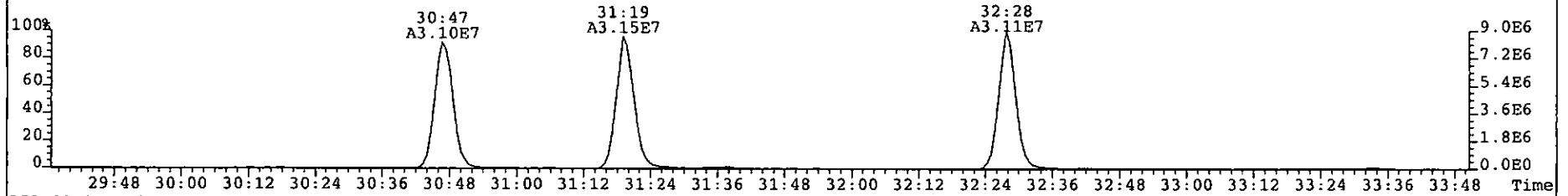
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage STR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
339.8597 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 256



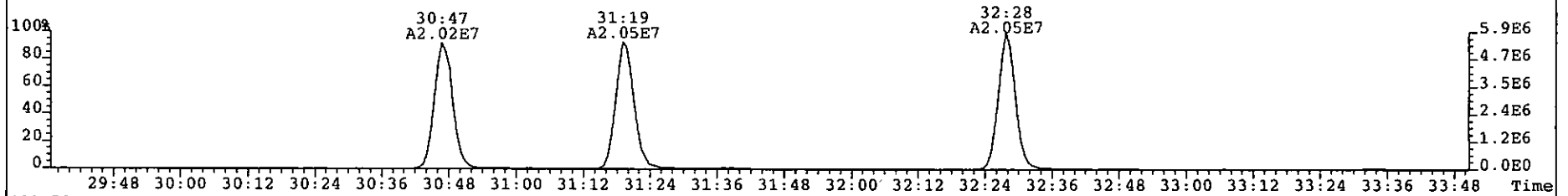
341.8568 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 183



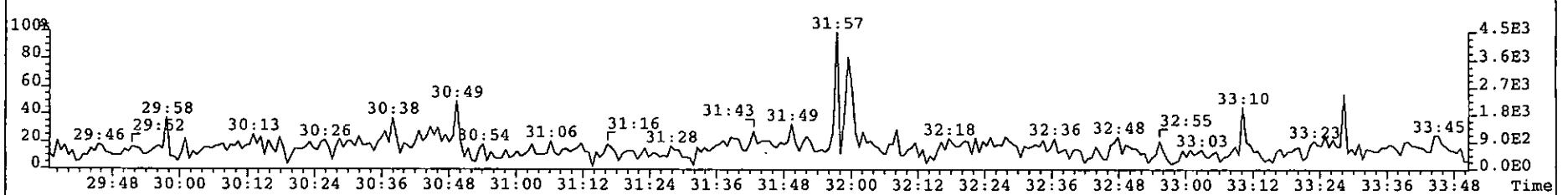
351.9000 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2359



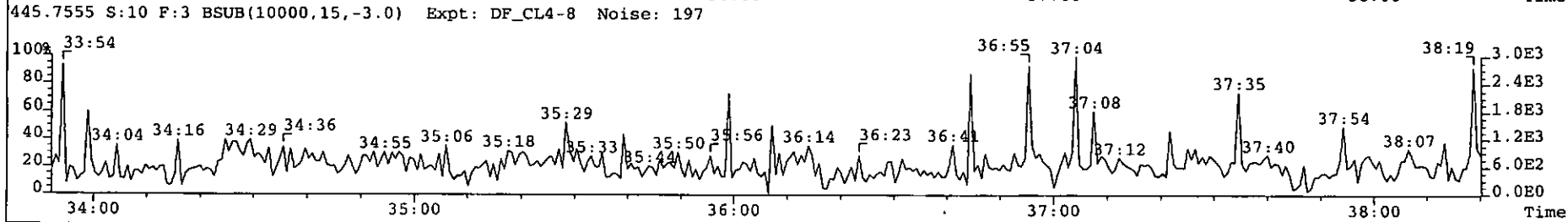
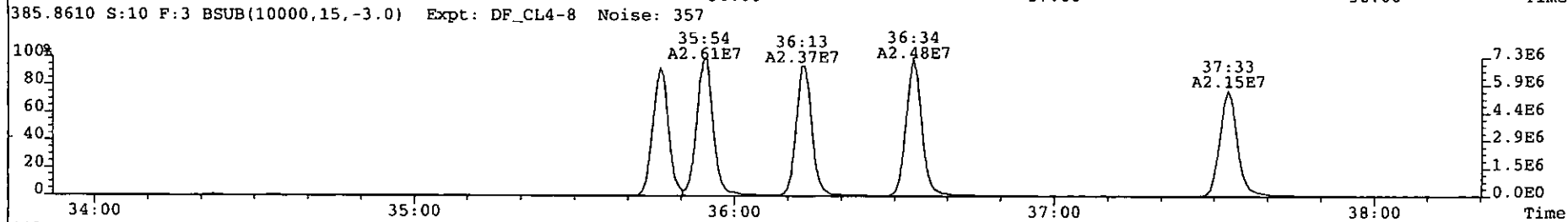
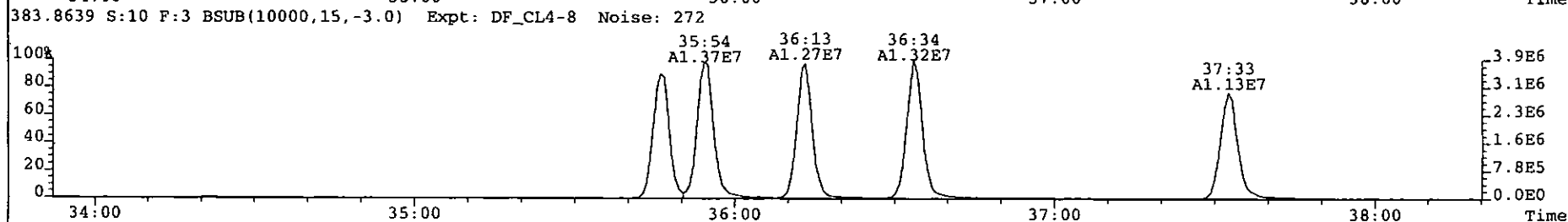
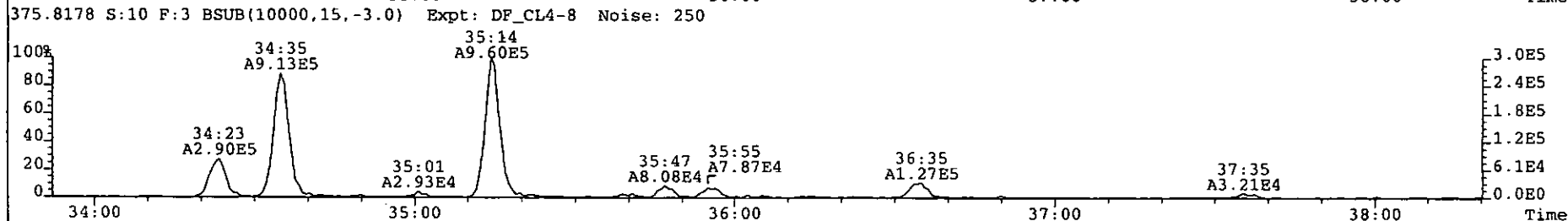
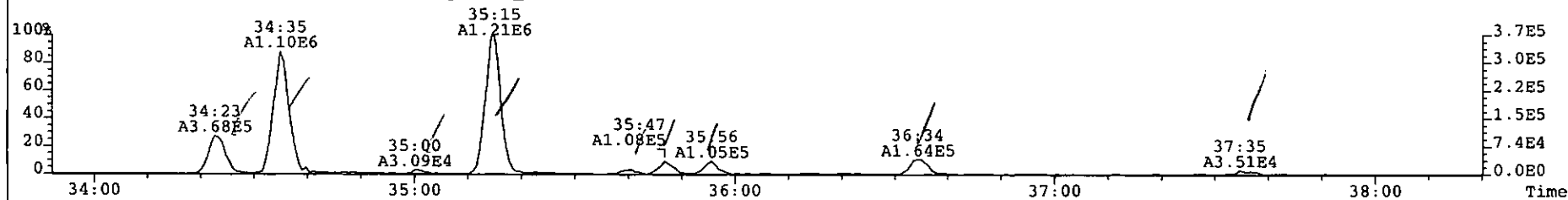
353.8970 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 652



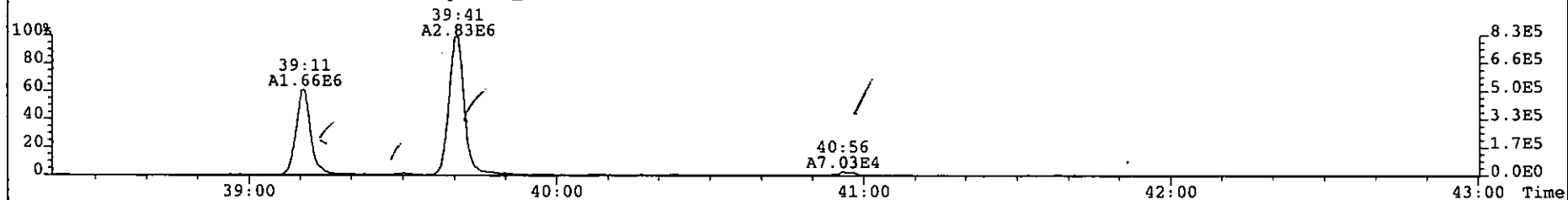
409.7974 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 216



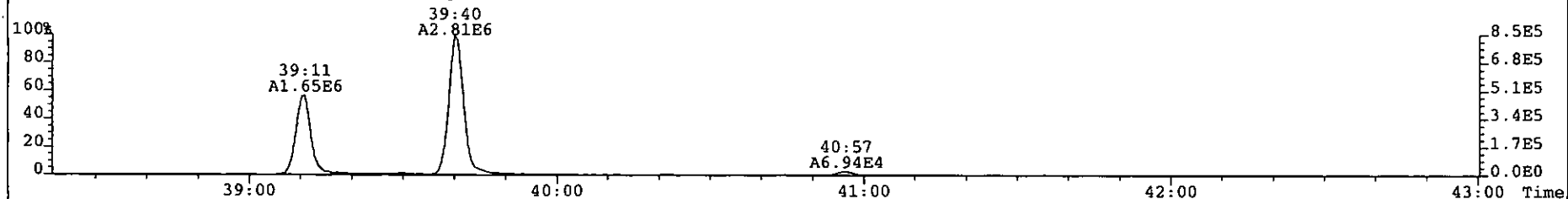
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 294



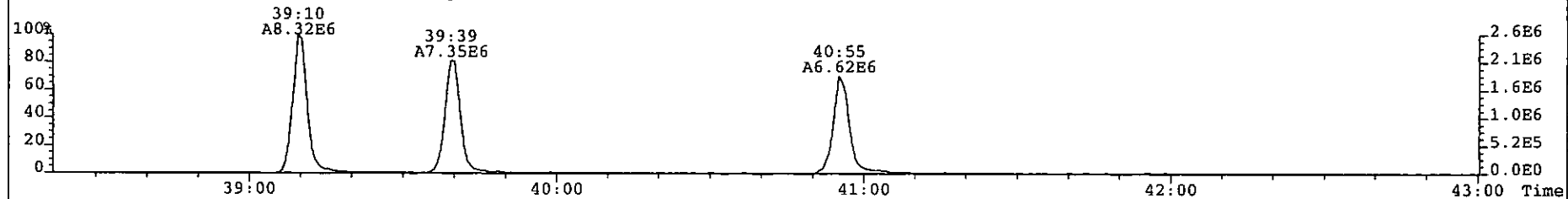
File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
407.7818 S:10 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 276



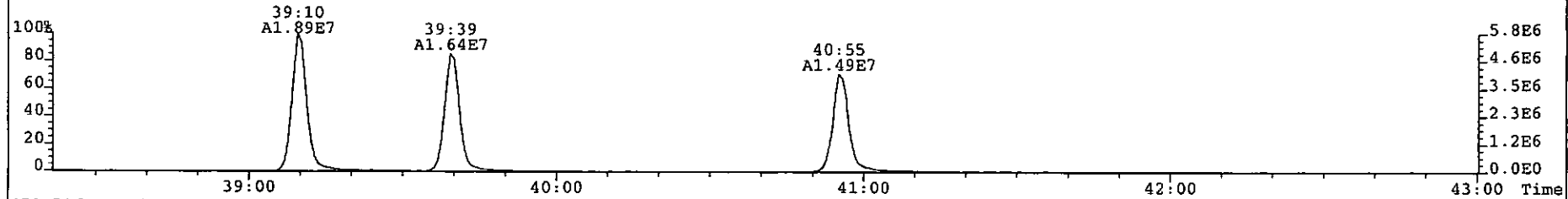
409.7788 S:10 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 245



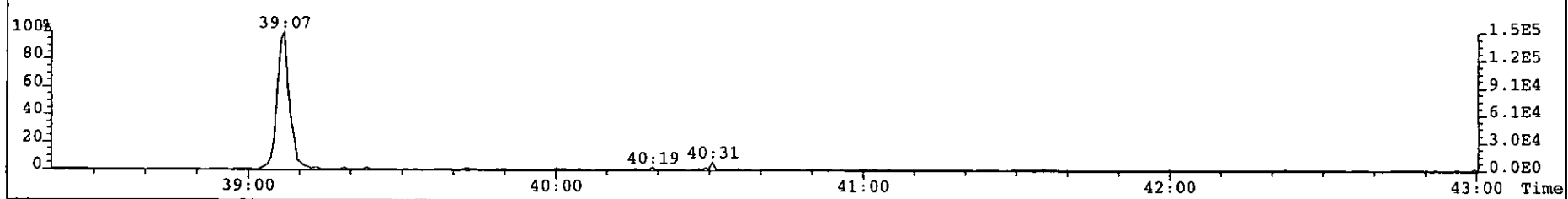
417.8253 S:10 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1141



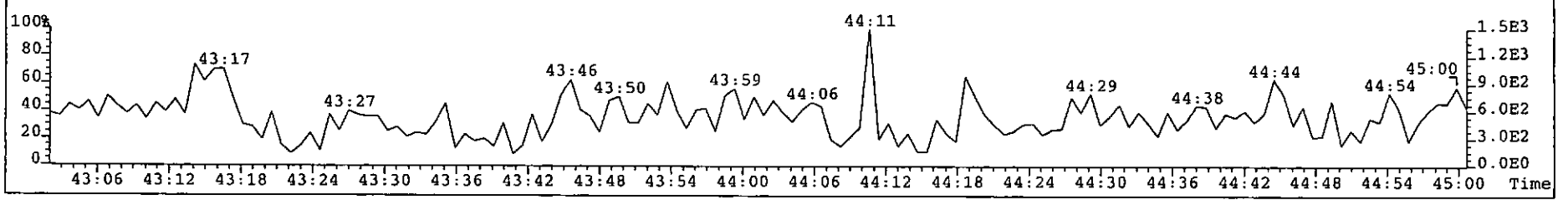
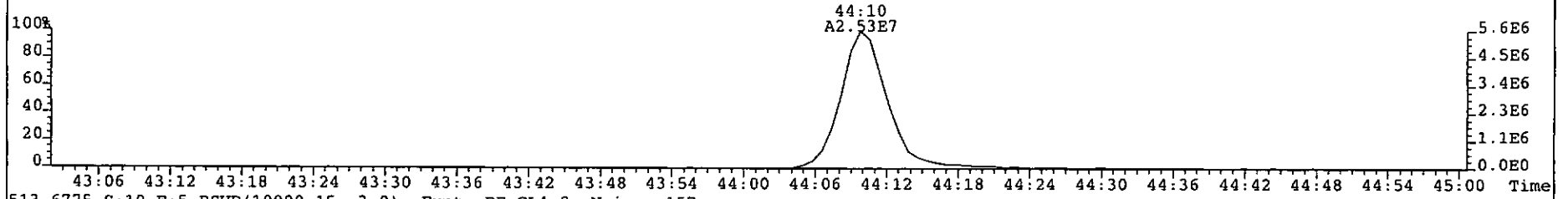
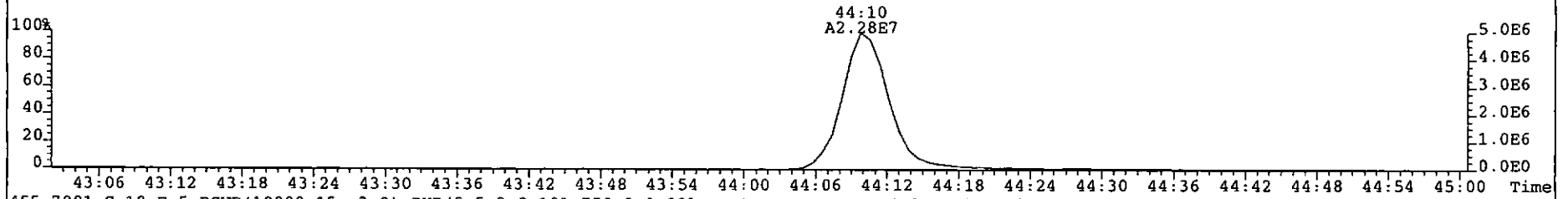
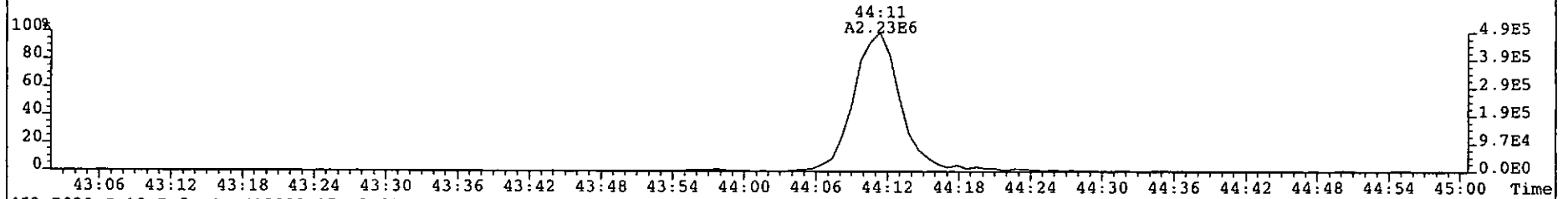
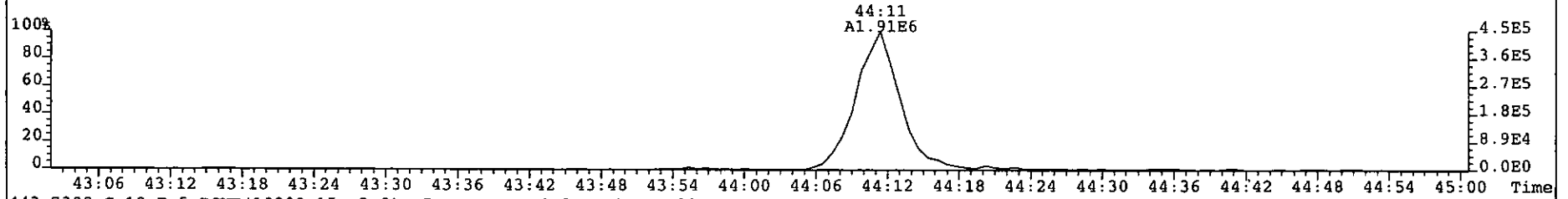
419.8220 S:10 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1806



479.7165 S:10 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 164



File: 090614P1 Acq: 14-JUN-2009 16:32:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 10 Text: P1376_6875_006 BW-53-SS-090602 10.31g Vial# 53 File Text: AP DB5
441.7428 S:10 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 194



FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1_DF_07012007A_25DE»

GC Column ID: DB-5

VER Data Filename: 090614P1 S#1 Analysis Date: 14-JUN-09 Time: 09:06:36

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	11.0	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	52.1	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	50.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	51.9	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	52.4	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	48.1	43.0 - 58.0
OCDD	M+2/M+4	0.93	0.76-1.02	y	101.8	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.8	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	48.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	47.8	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	47.3	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.3	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.3	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	46.6	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	45.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	47.5	43.0 - 58.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	95.4	63.0 - 159.0

Analyst: *[Signature]*

Date: *19 Jun 09*

HW 19 Jun 09

- (1) See Table 9, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range as specified in Table 6, Method 1613.

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1_DF_07012007A_25DE»

GC Column ID: DB-5

VER Data Filename: 090614P1 S#1 Analysis Date: 14-JUN-09 Time: 09:06:36

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	102.8	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.66	1.32-1.78	y	103.6	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.33	1.05-1.43	y	96.2	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	96.1	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	96.4	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	99.6	72.0 - 138.0
13C-OCDD	M+2/M+4	0.85	0.76-1.02	y	184.2	96.0 - 415.0
13C-2,3,7,8-TCDF	M/M+2	0.82	0.65-0.89	y	99.8	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	96.3	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	92.8	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M+2/M+4	0.54	0.43-0.59	y	94.3	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	y	95.0	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	y	93.5	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M+2/M+4	0.53	0.43-0.59	y	97.1	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.45	0.37-0.51	y	92.5	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	91.5	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	174.8	96.0 - 415.0
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.5	7.9 - 12.7
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.64	1.32-1.78	y	106.4	70.0 - 130.0
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.55	1.32-1.78	y	93.9	70.0 - 130.0
13C-1,2,3,4,6,9-HxCDF	M+2/M+4	0.52	0.43-0.59	y	95.4	70.0 - 130.0
13C-1,2,3,4,6,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	92.5	70.0 - 130.0

Analyst: [Signature]

Date: 19 JUN 09

HS 19 Jun 09

- (1) See Table 8, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range, as specified in Table 6, Method 1613
- (4) No ion abundance ratio; report concentration found.



1613/8290 Sample Summary

Analytical Perspectives

{Form: DF}

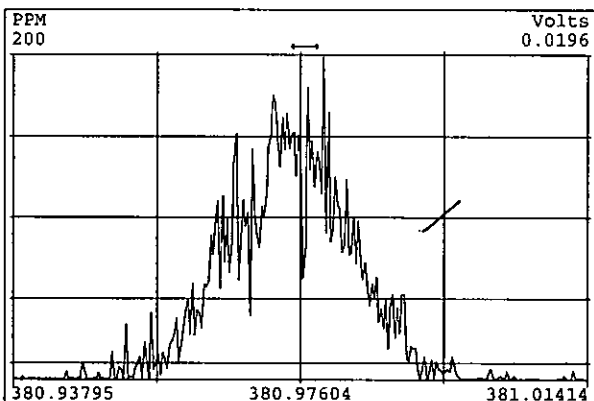
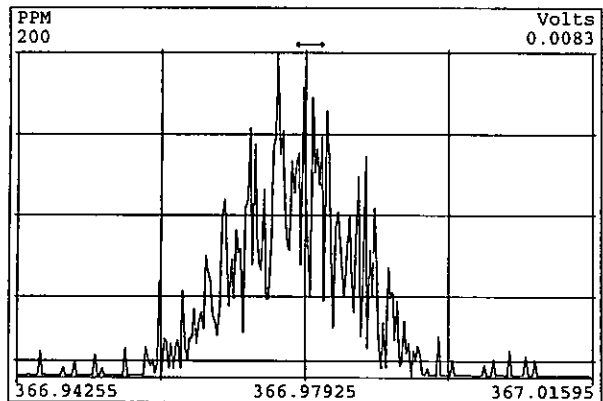
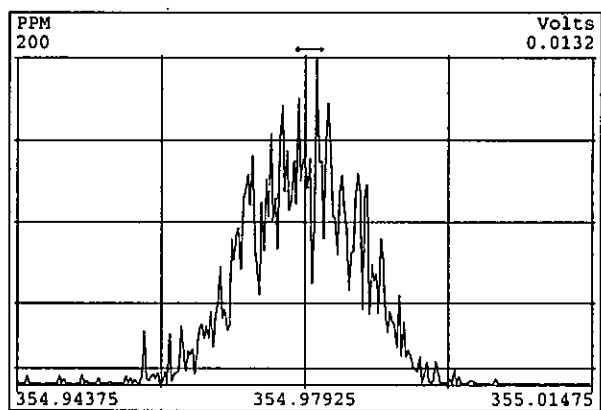
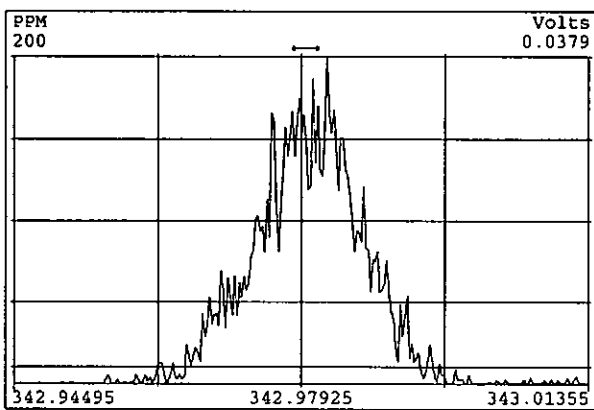
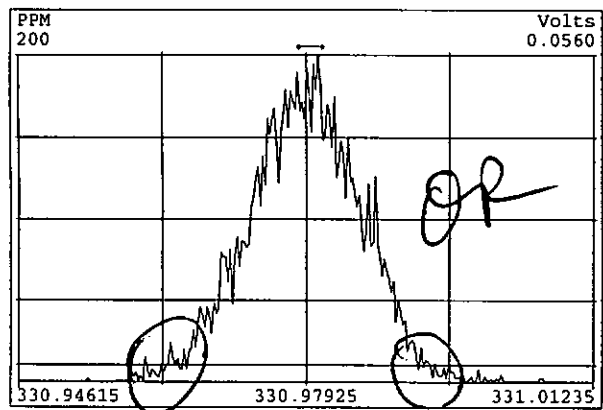
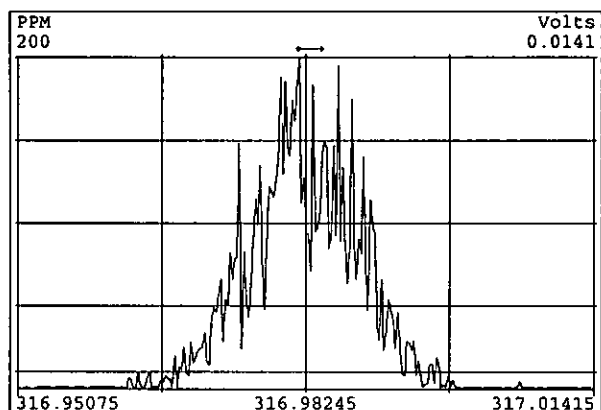
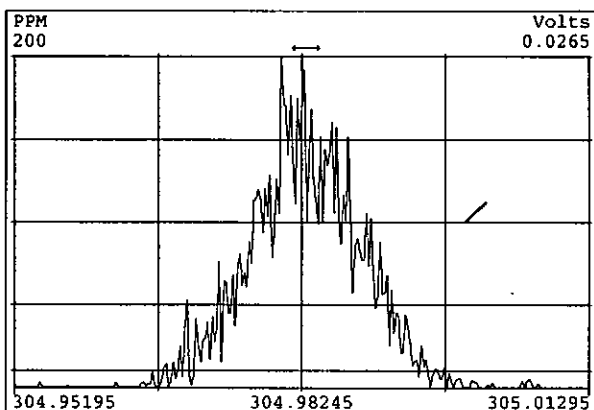
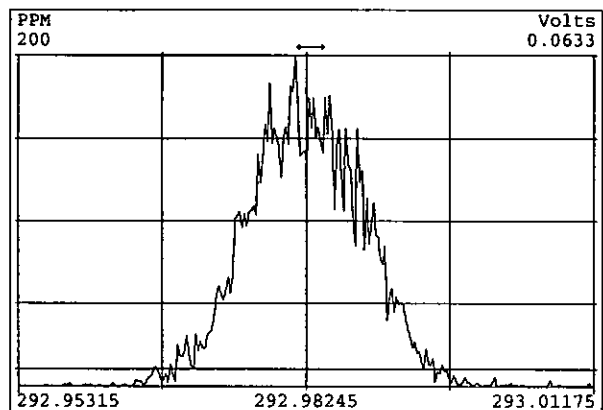
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 Lab ID: CS3 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 1.000
 Sample text: CS3 SIL7-25-4 Stds: JS (split adj.): 100 CS/SS: 10.0 ES: 100

Typ	Name	Resp	RA	RT	RRF	Conc	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	4.76e+06	0.82 y	27:19	1.08	11.0	606	2.5	0.0280	-
Ax	1,2,3,7,8-PeCDD	1.76e+07	1.61 y	32:51	1.00	52.1	2648	2.5	0.198	-
Ax	1,2,3,4,7,8-HxCDD	1.56e+07	1.24 y	36:46	1.08	50.3	5600	2.5	0.360	-
Ax	1,2,3,6,7,8-HxCDD	1.59e+07	1.25 y	36:53	0.94	51.9	5600	2.5	0.381	-
Ax	1,2,3,7,8,9-HxCDD	1.67e+07	1.23 y	37:12	0.99	52.4	5600	2.5	0.407	-
Ax	1,2,3,4,6,7,8-HpCDD	1.26e+07	1.06 y	40:22	0.97	48.1	5092	2.5	0.375	-
Ax	OCDD	1.80e+07	0.93 y	43:58	1.06	102	4896	2.5	0.593	-
Ax2	OCDD-a	1.02e+06	2.52 y	43:57	0.06	96.1	2551	2.5	5.18	-
Ax	2,3,7,8-TCDF	6.79e+06	0.76 y	26:25	1.05	9.75	1259	2.5	0.0359	-
Ax	1,2,3,7,8-PeCDF	2.75e+07	1.55 y	31:21	0.98	48.7	11027	2.5	0.474	-
Ax	2,3,4,7,8-PeCDF	2.78e+07	1.53 y	32:30	1.01	47.8	11027	2.5	0.463	-
Ax	1,2,3,4,7,8-HxCDF	2.20e+07	1.23 y	35:48	1.22	47.3	9775	2.5	0.276	-
Ax	1,2,3,6,7,8-HxCDF	2.58e+07	1.24 y	35:57	1.15	48.3	9775	2.5	0.249	-
Ax	2,3,4,6,7,8-HxCDF	2.21e+07	1.24 y	36:36	1.13	47.3	9775	2.5	0.280	-
Ax	1,2,3,7,8,9-HxCDF	1.95e+07	1.23 y	37:35	1.12	46.6	9775	2.5	0.360	-
Ax	1,2,3,4,6,7,8-HpCDF	1.84e+07	1.01 y	39:12	1.37	45.8	6645	2.5	0.198	-
Ax	1,2,3,4,7,8,9-HpCDF	1.46e+07	1.02 y	40:58	1.32	47.5	6645	2.5	0.297	-
Ax	OCDF	2.24e+07	0.90 y	44:13	0.94	95.4	5849	2.5	0.539	-
Ax2	OCDF-a	1.29e+06	2.66 y	44:12	0.05	97.9	812	2.5	1.33	-
ES	13C-2,3,7,8-TCDD	3.99e+07	0.82 y	27:18	0.99	103	2595	2.5	0.135	103
ES	13C-1,2,3,7,8-PeCDD	3.38e+07	1.66 y	32:50	0.83	104	7735	2.5	0.479	104
ES	13C-1,2,3,4,7,8-HxCDD	2.87e+07	1.33 y	36:45	1.08	96.2	13332	2.5	0.915	96.2
ES	13C-1,2,3,6,7,8-HxCDD	3.24e+07	1.30 y	36:52	1.23	96.1	13332	2.5	0.808	96.1
ES	13C-1,2,3,7,8,9-HxCDD	3.21e+07	1.25 y	37:11	1.21	96.4	13332	2.5	0.819	96.4
ES	13C-1,2,3,4,6,7,8-HpCDD	2.69e+07	1.05 y	40:22	0.98	99.6	11280	2.5	0.852	99.6
ES	13C-OCDD	3.34e+07	0.85 y	43:57	0.66	184	7160	2.5	0.807	92.1
ES	13C-2,3,7,8-TCDF	6.66e+07	0.82 y	26:24	0.96	99.8	2895	2.5	0.0921	99.8
ES	13C-1,2,3,7,8-PeCDF	5.73e+07	1.55 y	31:20	0.85	96.3	17814	2.5	0.635	96.3
ES	13C-2,3,4,7,8-PeCDF	5.73e+07	1.54 y	32:29	0.88	92.8	17814	2.5	0.613	92.8
ES	13C-1,2,3,4,7,8-HxCDF	3.83e+07	0.54 y	35:47	1.47	94.3	26521	2.5	1.34	94.3
ES	13C-1,2,3,6,7,8-HxCDF	4.64e+07	0.53 y	35:55	1.78	95.0	26521	2.5	1.11	95.0
ES	13C-2,3,4,6,7,8-HxCDF	4.14e+07	0.53 y	36:35	1.61	93.5	26521	2.5	1.22	93.5
ES	13C-1,2,3,7,8,9-HxCDF	3.74e+07	0.53 y	37:34	1.40	97.1	26521	2.5	1.41	97.1
ES	13C-1,2,3,4,6,7,8-HpCDF	2.95e+07	0.45 y	39:11	1.16	92.5	15330	2.5	0.982	92.5
ES	13C-1,2,3,4,7,8,9-HpCDF	2.32e+07	0.43 y	40:57	0.92	91.5	15330	2.5	1.24	91.5
ES	13C-OCDF	4.99e+07	0.89 y	44:12	1.04	175	13836	2.5	0.991	87.4
CS	37Cl-2,3,7,8-TCDD	4.07e+06		27:19	0.99	10.5			0.957	105
CS	13C-1,2,3,4,7-PeCDD	3.20e+07	1.64 y	32:19	0.77	106	7735	2.5	0.520	106
CS	13C-1,2,3,4,6-PeCDF	5.18e+07	1.55 y	30:48	0.79	93.5	17814	2.5	0.682	93.5
CS	13C-1,2,3,4,6,9-HxCDF	3.71e+07	0.52 y	36:14	1.41	95.4	26521	2.5	1.40	95.4
CS	13C-1,2,3,4,6,8,9-HpCDF	2.32e+07	0.43 y	39:41	0.91	92.5	15330	2.5	1.25	92.5
NA	n/a	*	* n	NotF»	Div0	*	1874	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	3.91e+07	0.83 y	26:37	-	112	2595	2.5	-	-
JS	13C-1,2,3,4-TCDF	6.98e+07	0.82 y	24:58	-	126	2895	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.38e+07	1.34 y	37:04	-	63.2	4729	2.5	-	-

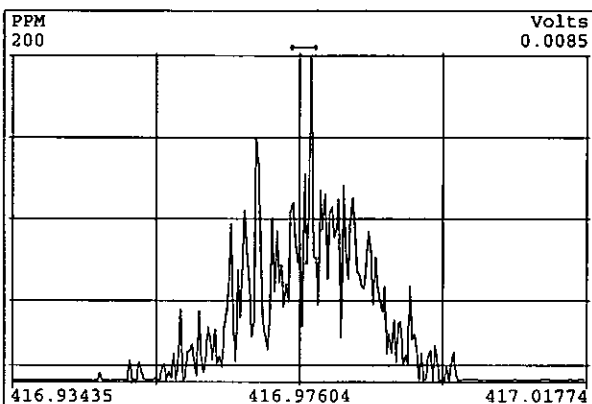
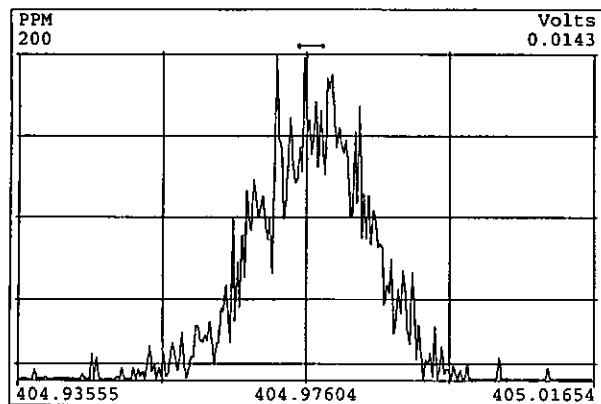
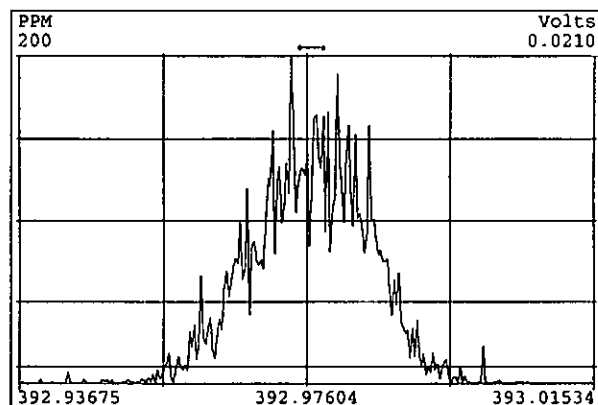
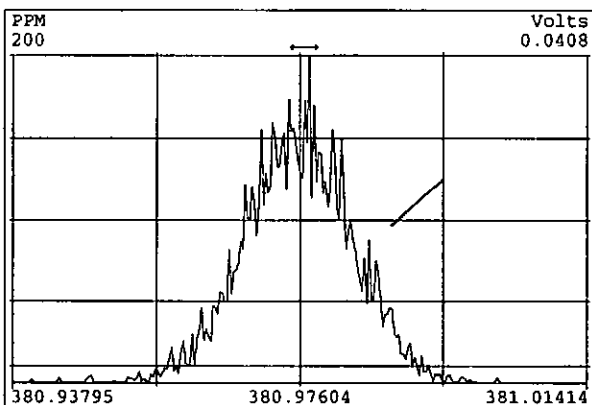
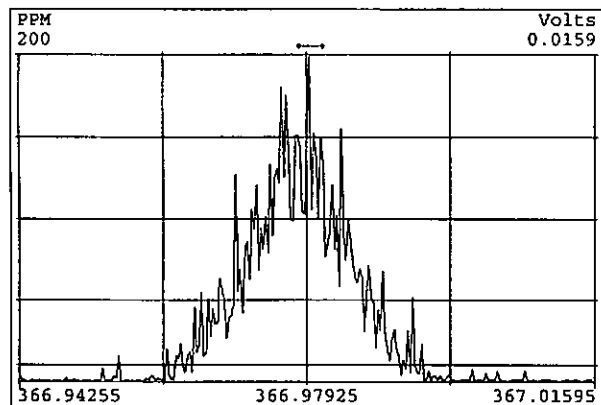
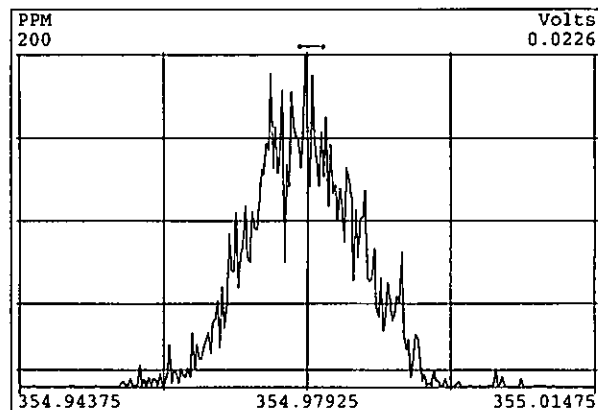
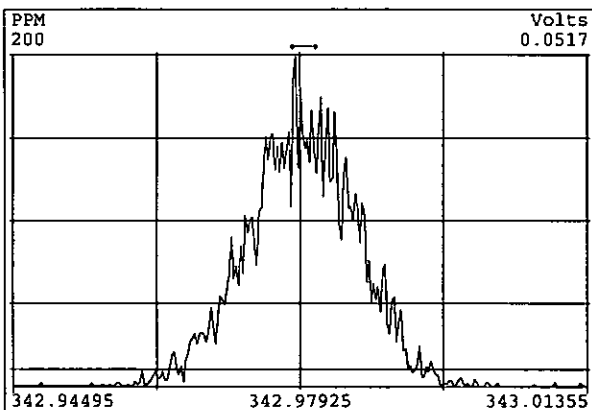
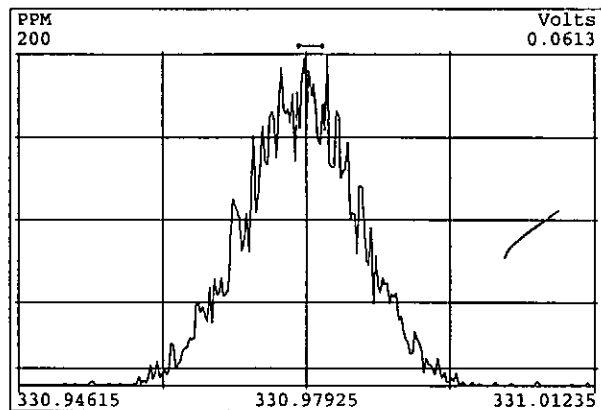
Analyst: 
 Date: 
 19 Jun 09

SS	37C1-2,3,7,8-TCDD	4.07e+06		27:19	1.00	10.2		0.913	102
SS	13C-1,2,3,4,7-PeCDD	3.20e+07	1.64 y	32:19	0.93	102	7735 2.5	0.623	102
SS	13C-1,2,3,4,6-PeCDF	5.18e+07	1.55 y	30:48	0.94	96.5	17814 2.5	0.805	96.5
SS	13C-1,2,3,4,6,9-HxCDF	3.71e+07	0.52 y	36:14	0.80	99.7	26521 2.5	0.972	99.7
SS	13C-1,2,3,4,6,8,9-HpCDF	2.32e+07	0.43 y	39:41	0.79	99.2	15330 2.5	0.788	99.2
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	1259 2.5	0.0359	-
Ay	1,3,6,8-TCDD	*	* n	NotF»	1.08	*	606 2.5	0.0280	-
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	606 2.5	0.0280	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	606 2.5	0.0280	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	2648 2.5	0.198	-
Ay	1,2,3,8,9-PeCDD	2.88e+04	3.69 n	33:16	1.00	0.0853	2648 2.5	0.198	-
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF»	1.00	*	5600 2.5	0.383	-
Ay	1,2,3,4,6,7,9-HpCDD	*	* n	NotF»	0.97	*	5092 2.5	0.375	-
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	1259 2.5	0.0359	-
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	1259 2.5	0.0359	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	1259 2.5	0.0359	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF»	1.05	*	1096 2.5	0.0313	-
Ay	1,2,3,8,9-PeCDF	2.06e+05	2.14 n	33:36	1.00	0.359	11027 2.5	0.468	-
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF»	1.15	*	9775 2.5	0.288	-
Tot	Total Tetra-Dioxins	4.76e+06	0.82 y	27:19	1.08	11.0	606 2.5	0.0280	-
Tot	Total Penta-Dioxins	1.76e+07	1.61 y	32:51	1.00	52.1	2648 2.5	0.198	-
Tot	Total Hexa-Dioxins	4.82e+07	1.24 y	36:46	1.00	155	5600 2.5	0.383	-
Tot	Total Hepta-Dioxins	1.26e+07	1.06 y	40:22	0.97	48.1	5092 2.5	0.375	-
Tot	Total Tetra-Furans	6.94e+06	0.71 y	25:29	1.05	9.95	1259 2.5	0.0359	-
Tot	Total Penta-Furans	5.57e+07	1.55 y	31:21	1.00	97.4	11027 2.5	0.468	-
Tot	Total Hexa-Furans	8.96e+07	1.23 y	35:48	1.15	190	9775 2.5	0.288	-
Tot	Total Hepta-Furans	3.30e+07	1.01 y	39:12	1.35	93.3	6645 2.5	0.241	-
Tot	TCDD EMPC	4.76e+06	0.82 y	27:19	1.08	11.0	606 2.5	0.0280	-
Tot	PeCDD EMPC	1.78e+07	1.61 y	32:51	1.00	52.6	2648 2.5	0.198	-
Tot	HxCDD EMPC	4.83e+07	1.24 y	36:46	1.00	155	5600 2.5	0.383	-
Tot	HpCDD EMPC	1.26e+07	1.06 y	40:22	0.97	48.1	5092 2.5	0.375	-
Tot	TCDF EMPC	6.98e+06	0.71 y	25:29	1.05	10.0	1259 2.5	0.0359	-
Tot	PeCDF EMPC	5.59e+07	1.55 y	31:21	1.00	97.7	11027 2.5	0.468	-
Tot	HxCDF EMPC	8.98e+07	1.90 n	34:36	1.15	190	9775 2.5	0.288	-
Tot	HpCDF EMPC	3.30e+07	1.01 y	39:12	1.35	93.3	6645 2.5	0.241	-
AS	13C-1,3,6,8-TCDD	4.40e+07	0.83 y	23:27	1.09	103	2595 2.5	0.124	103
AS	13C-1,3,6,8-TCDF	7.79e+07	0.82 y	21:16	1.09	103	2895 2.5	0.0809	103
DPE	HxCDPE	*		NotF»	-	*	-	-	-
DPE	HpCDPE	*		NotF»	-	*	-	-	-
DPE	OCDF	*		NotF»	-	*	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-
DPE	DCDF	*		NotF»	-	*	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-
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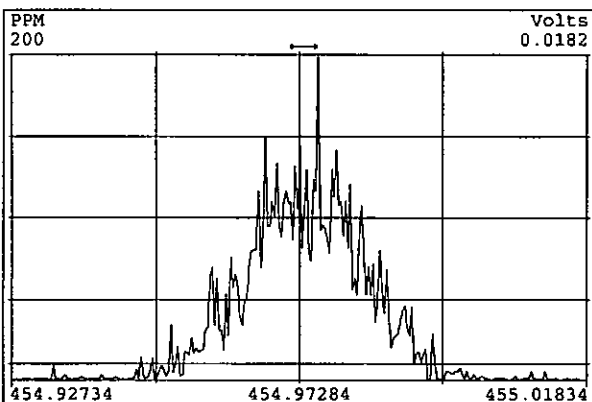
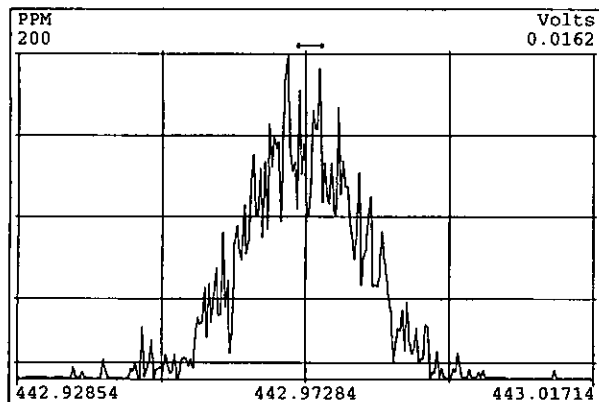
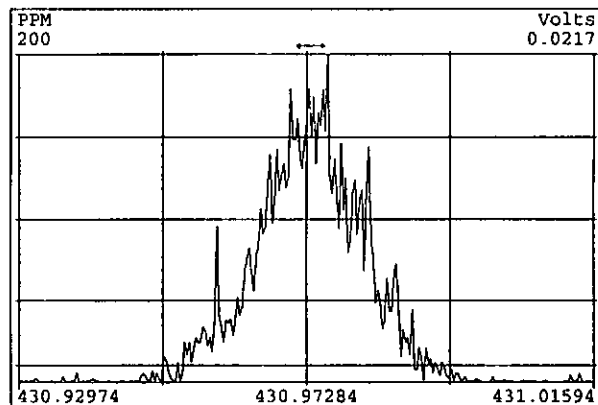
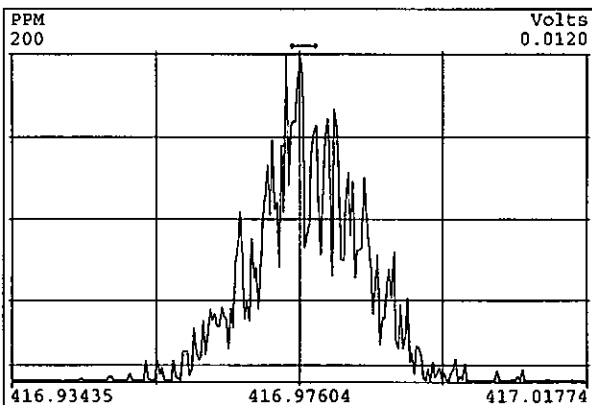
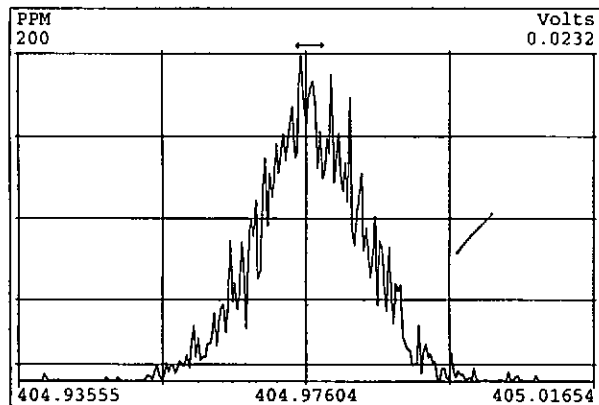
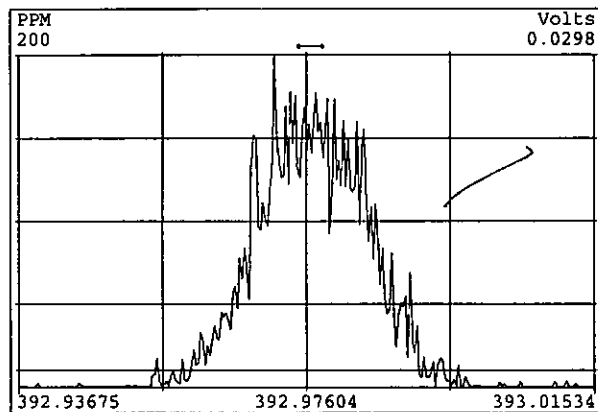
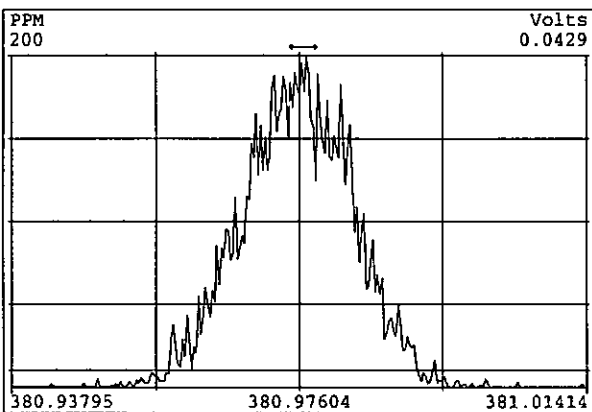
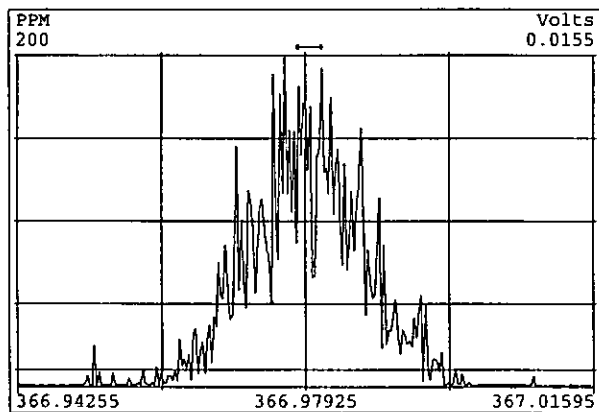
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Experiment:DF_CL4-8 Function:1 Reference:PPK2



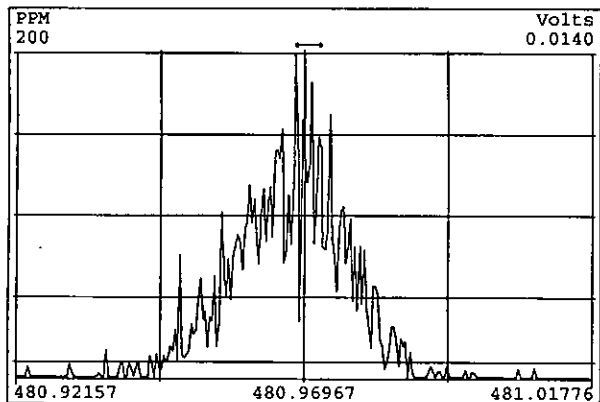
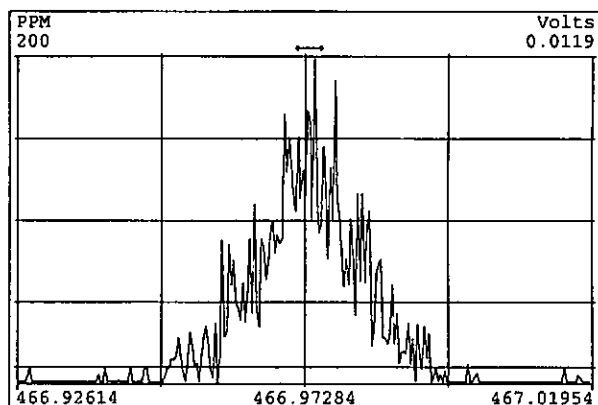
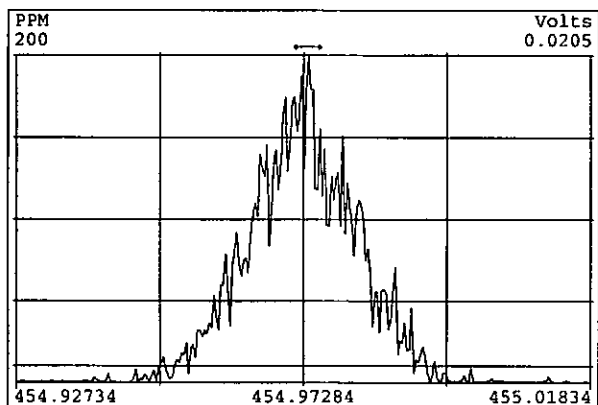
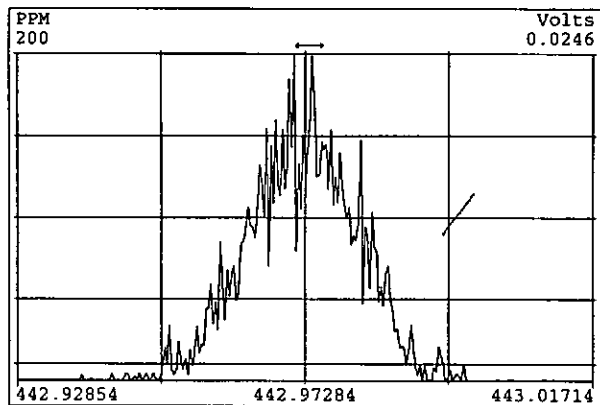
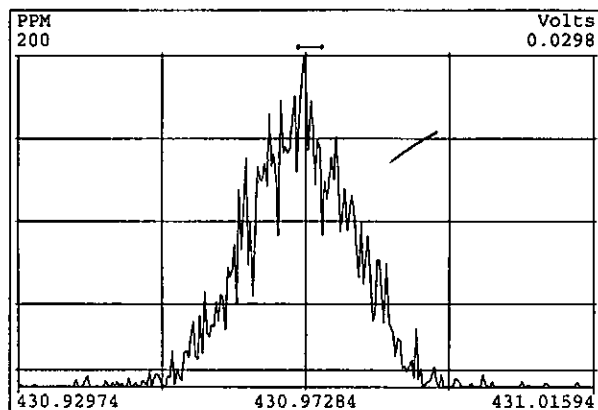
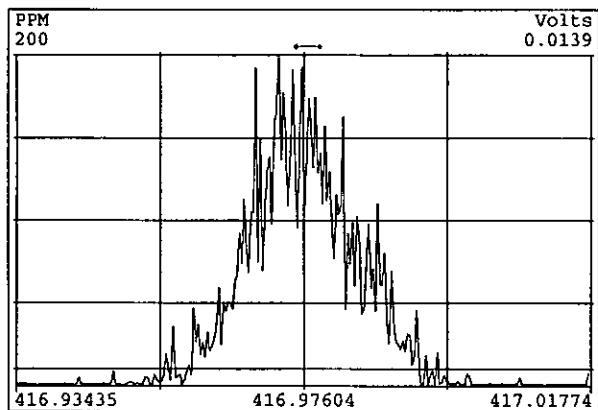
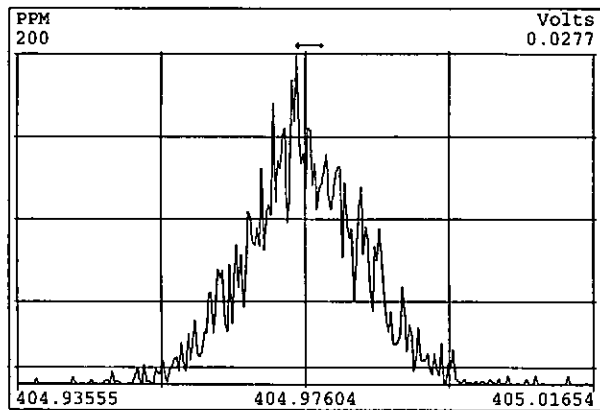
Peak Locate Examination:14-JUN-2009:09:04 File:090614P1
Experiment:DF_CL4-8 Function:2 Reference:PFK2



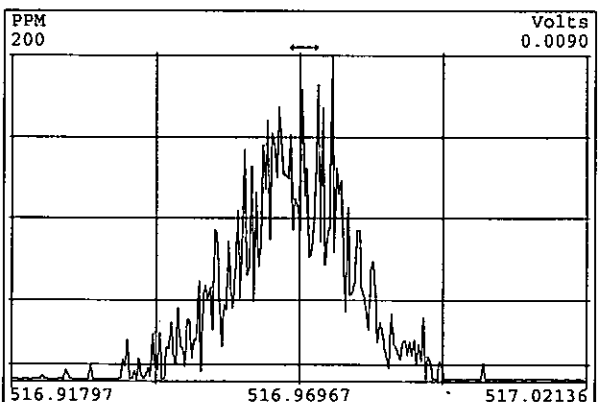
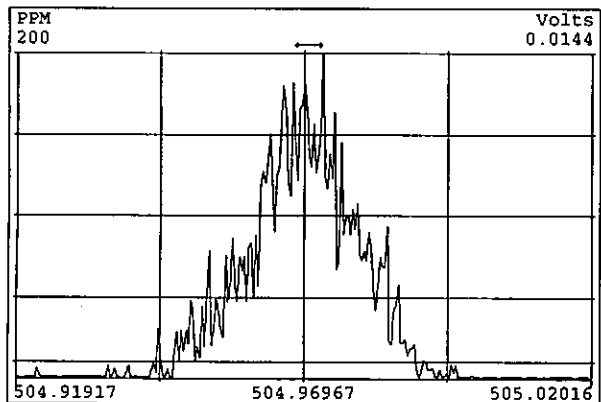
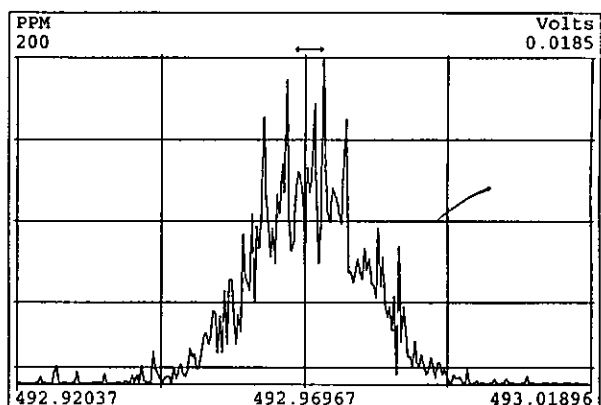
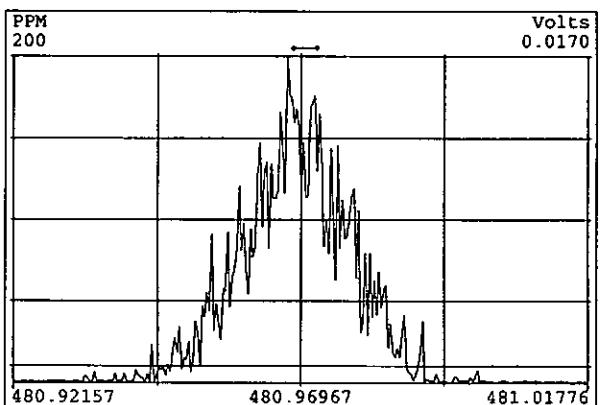
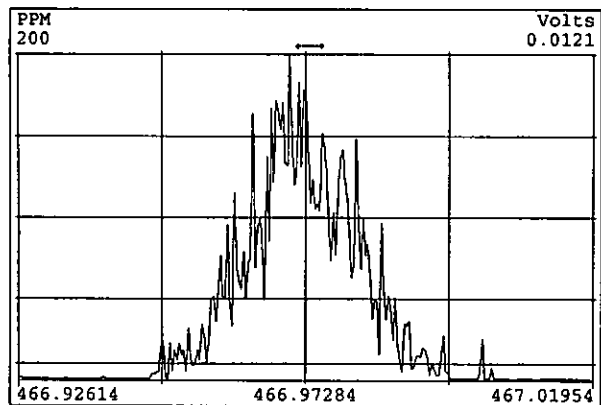
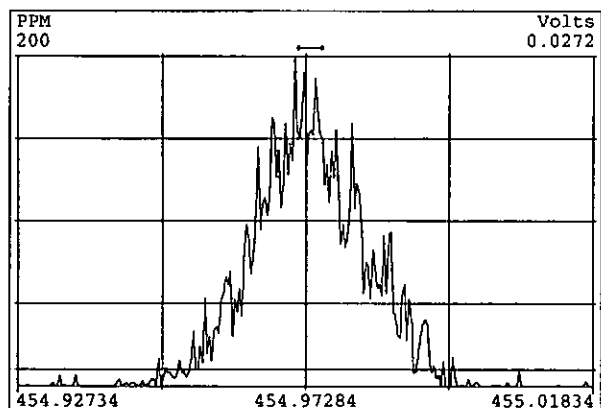
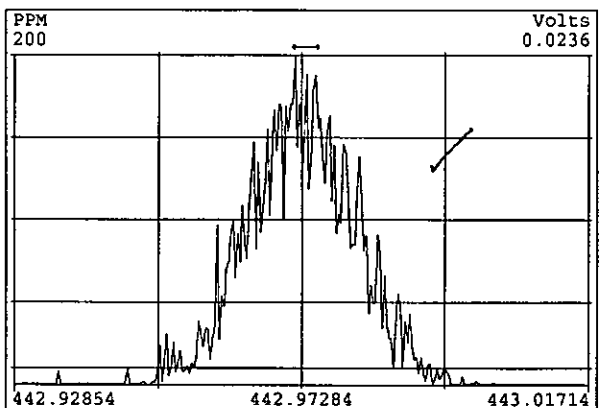
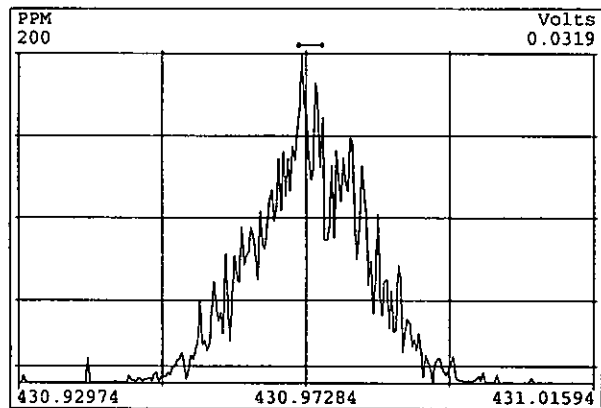
Peak Locate Examination: 14-JUN-2009:09:05 File: 090614P1
Experiment: DF_CL4-8 Function: 3 Reference: PFK2



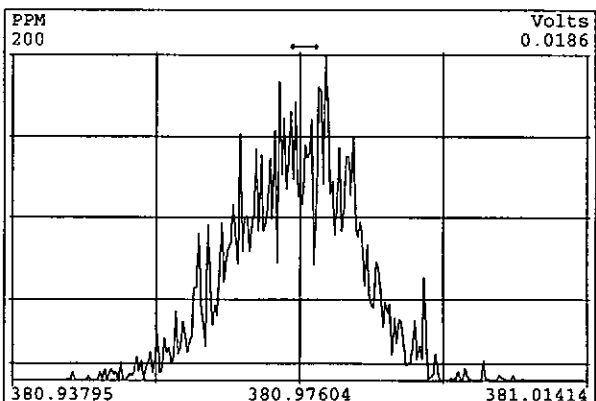
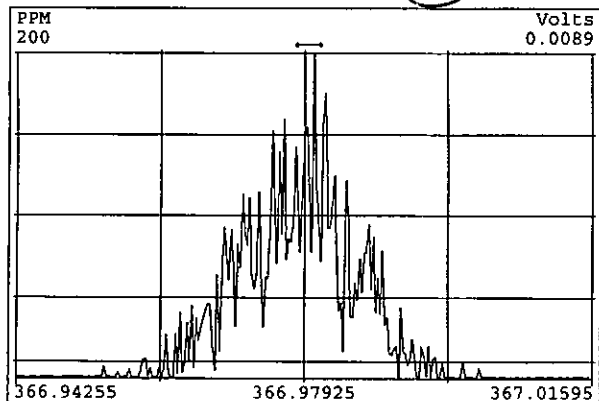
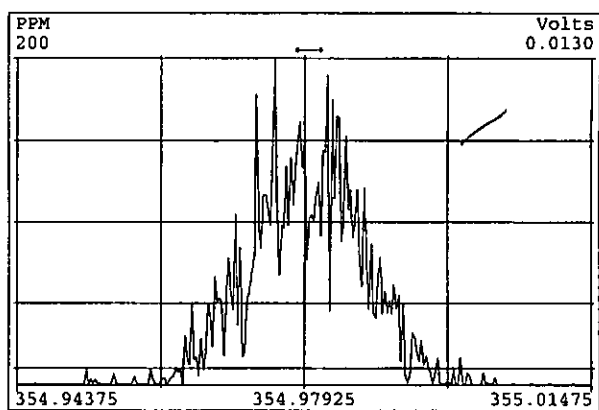
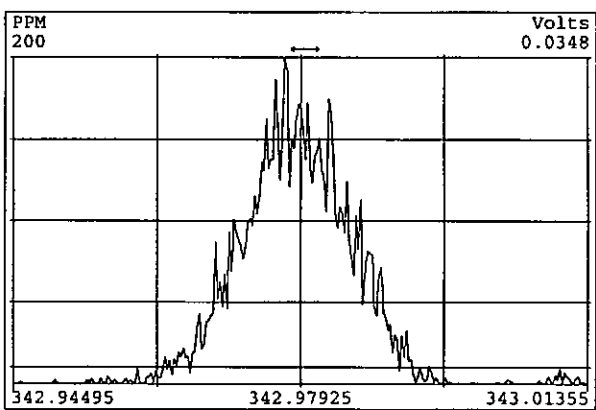
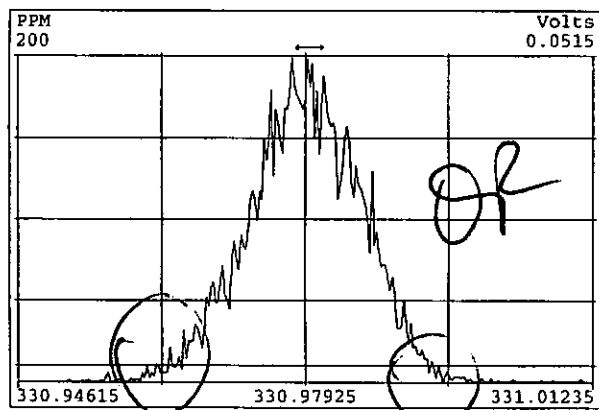
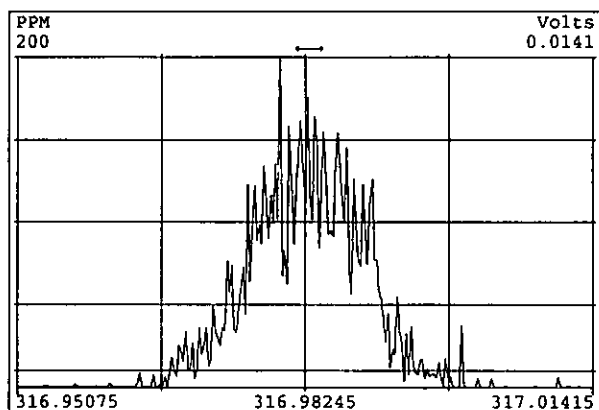
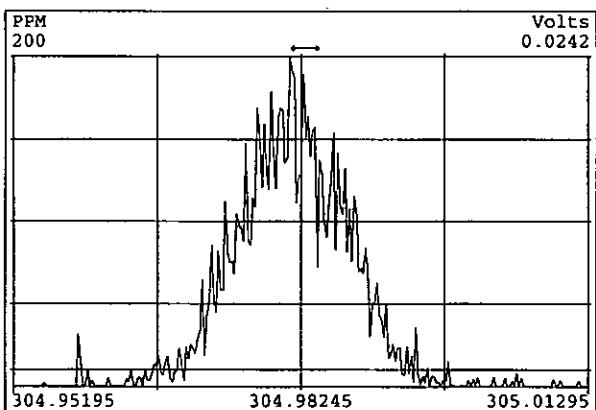
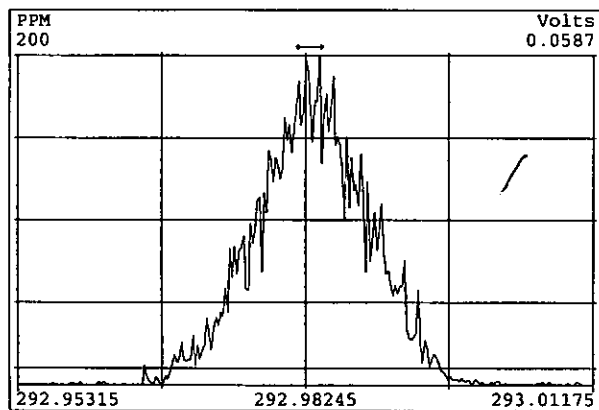
Peak Locate Examination:14-JUN-2009:09:05 File:090614P1
Experiment:DF_CL4-8 Function:4 Reference:PFK2



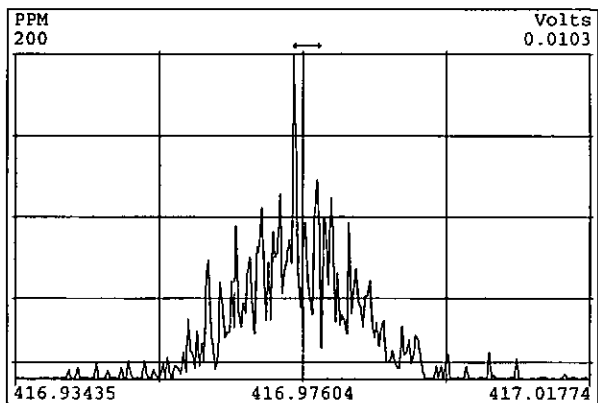
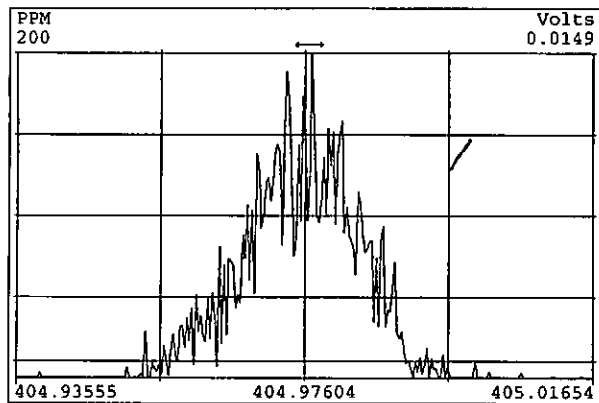
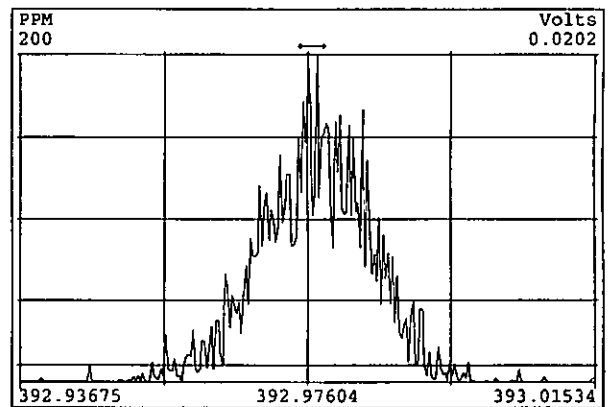
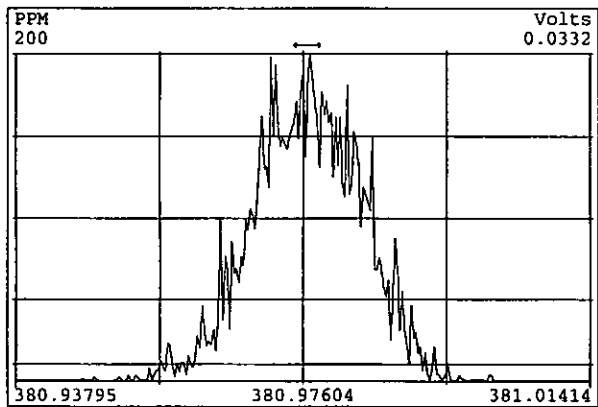
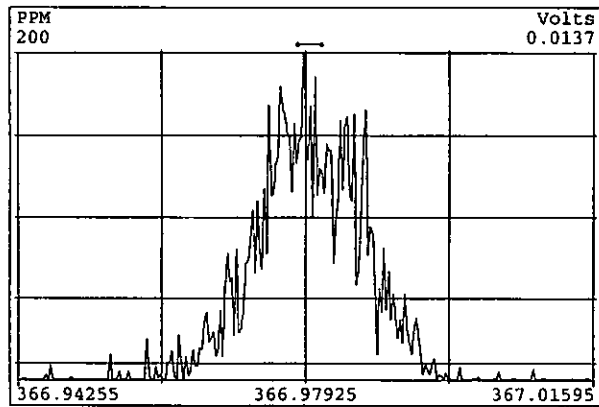
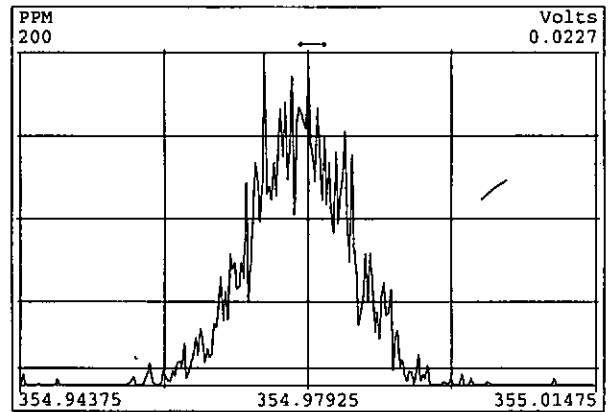
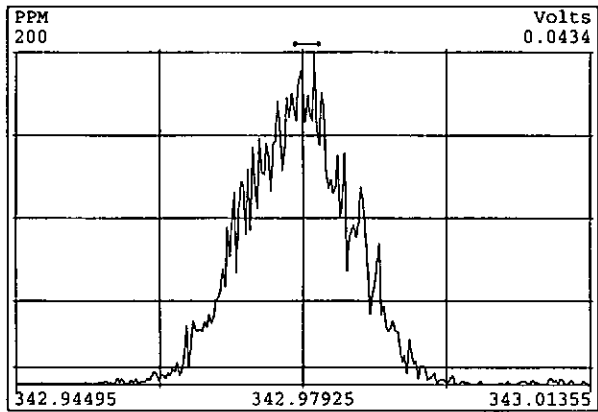
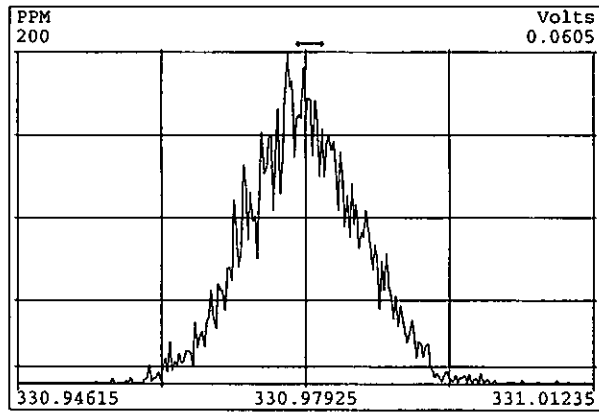
Peak Locate Examination:14-JUN-2009:09:05 File:090614P1
Experiment:DF_CL4-8 Function:5 Reference:PFK2



Peak Locate Examination:14-JUN-2009:18:18 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:1 Reference:PFK2

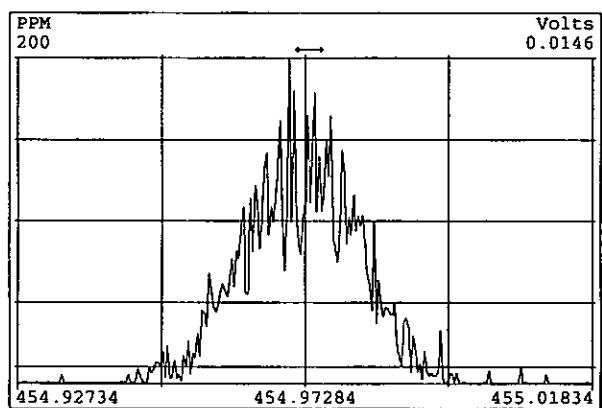
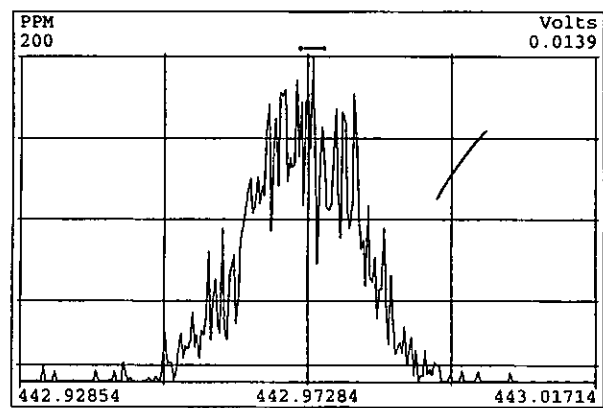
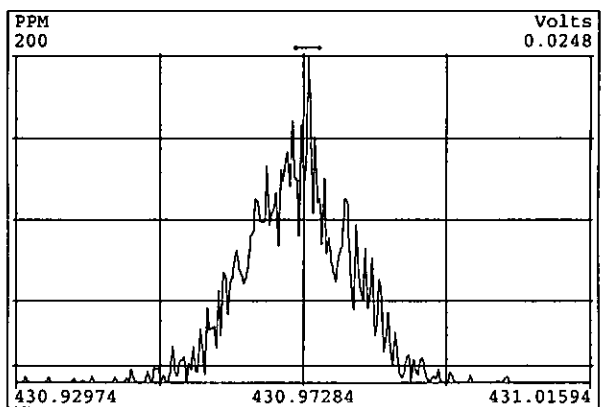
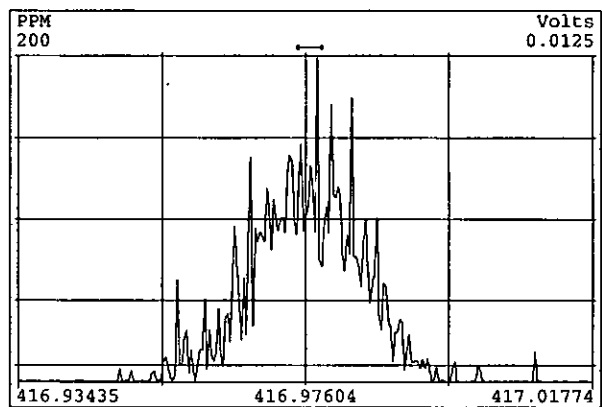
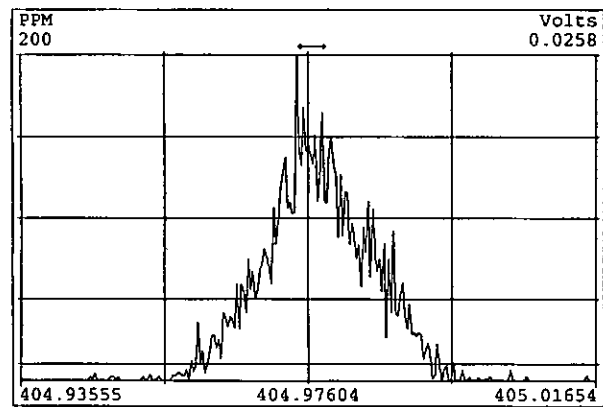
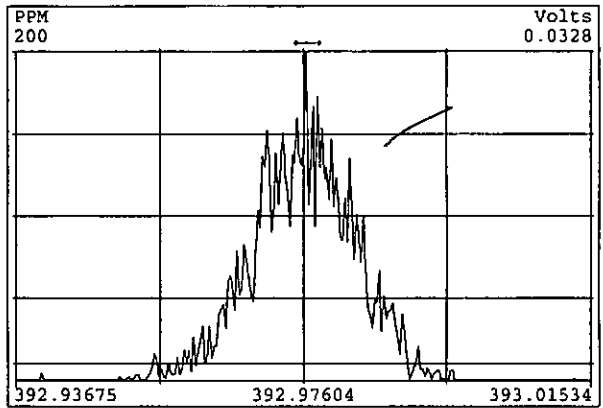
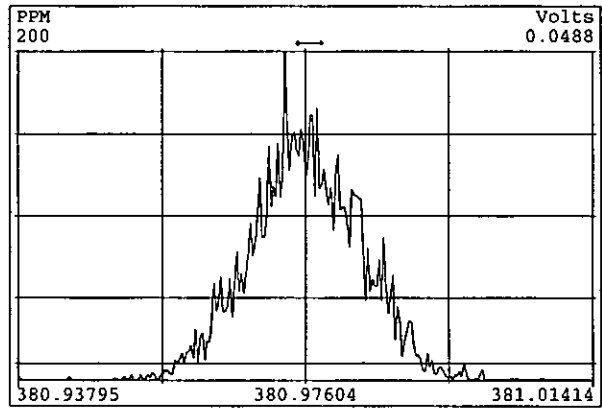
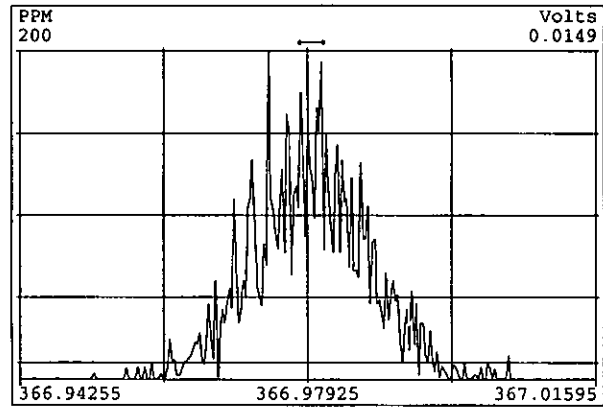


Peak Locate Examination:14-JUN-2009:18:19 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:2 Reference:PFK2

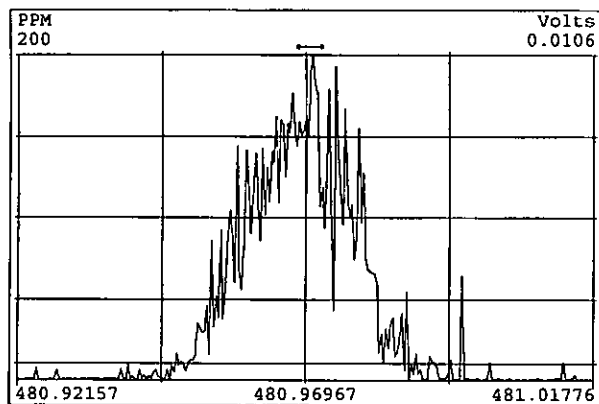
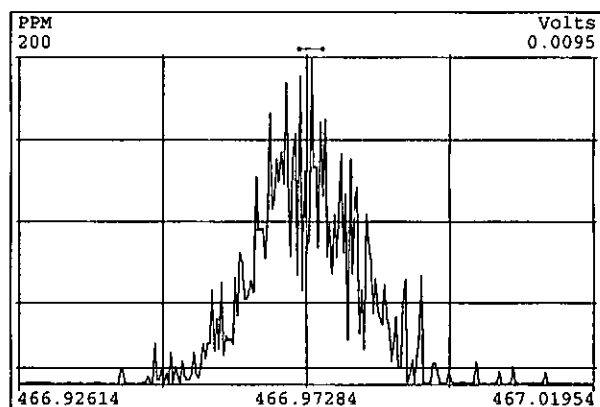
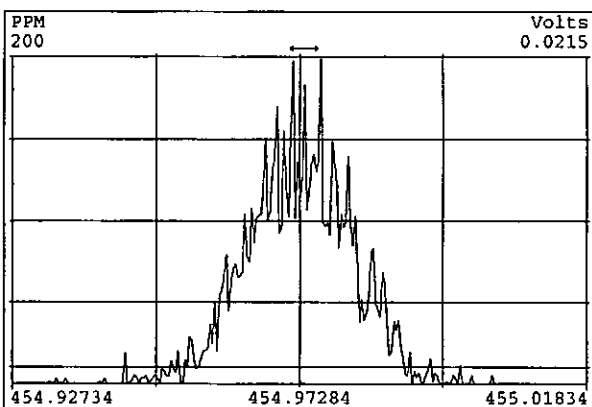
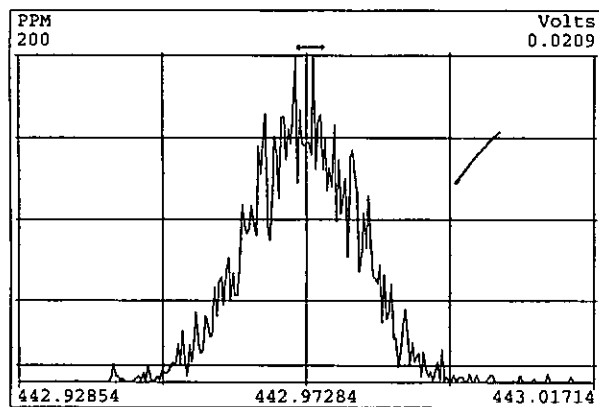
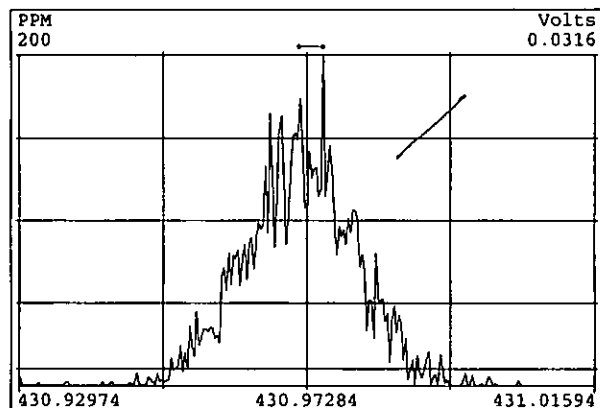
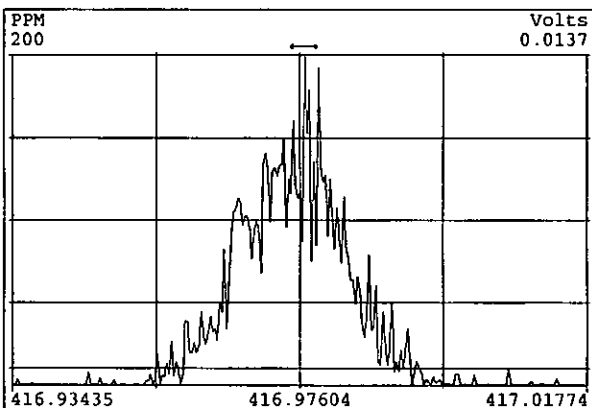
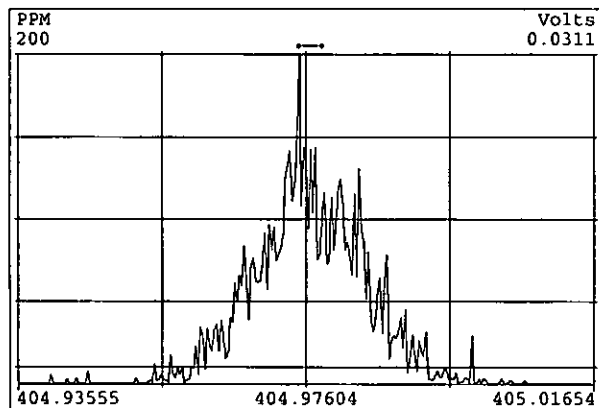




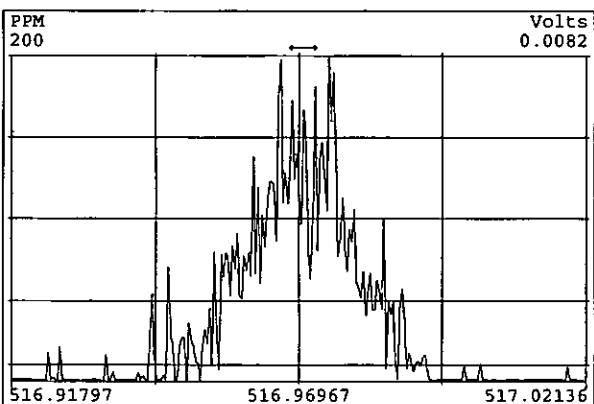
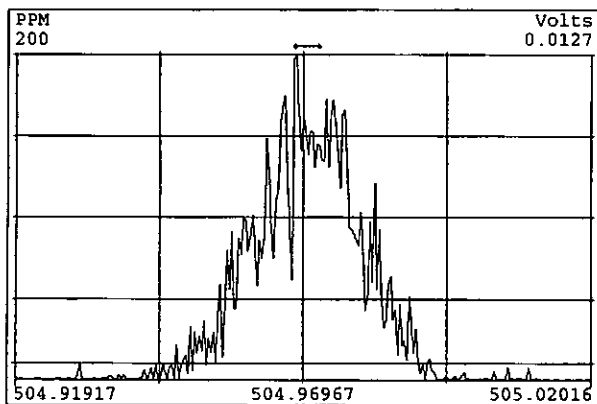
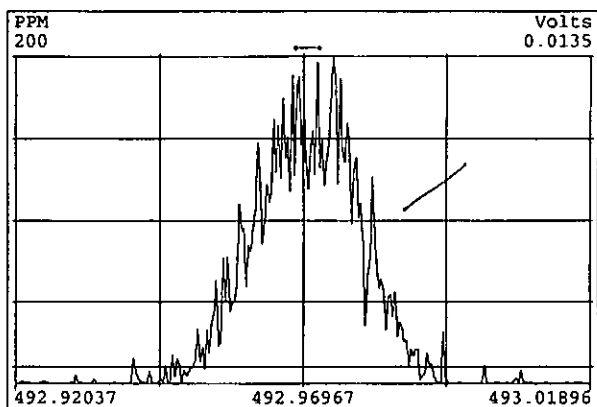
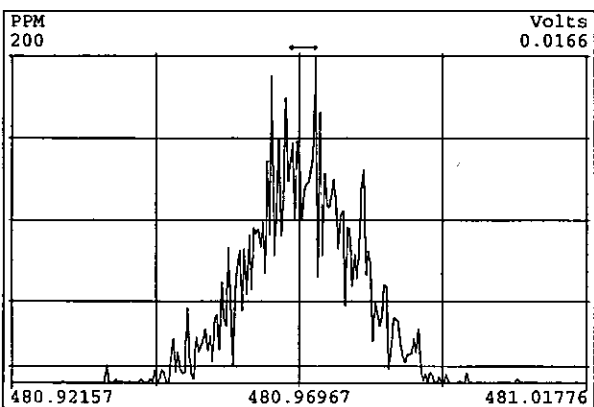
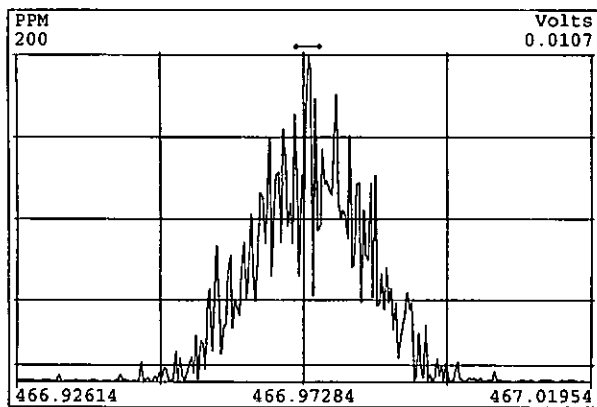
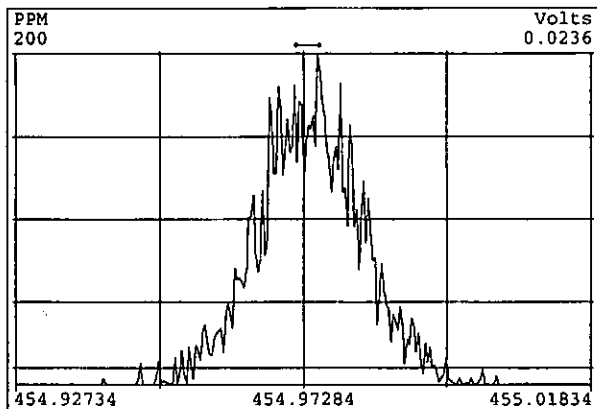
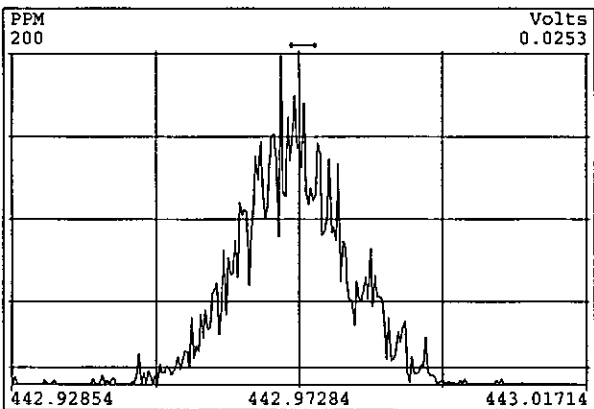
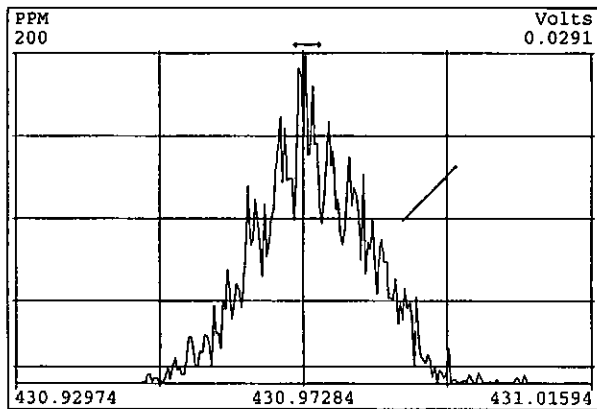
Peak Locate Examination:14-JUN-2009:18:20 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:3 Reference:PFK2



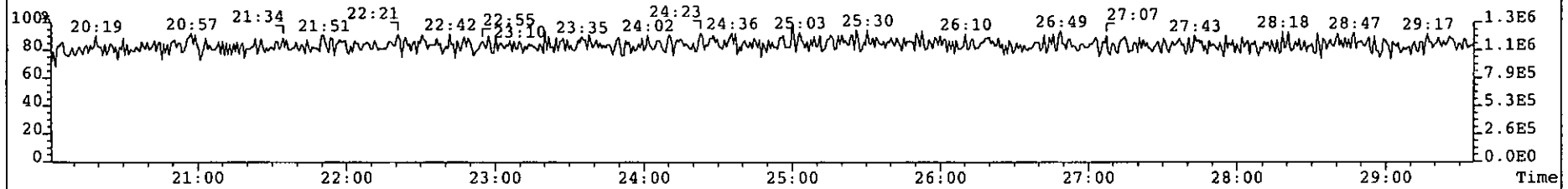
Peak Locate Examination:14-JUN-2009:18:21 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:4 Reference:PFK2



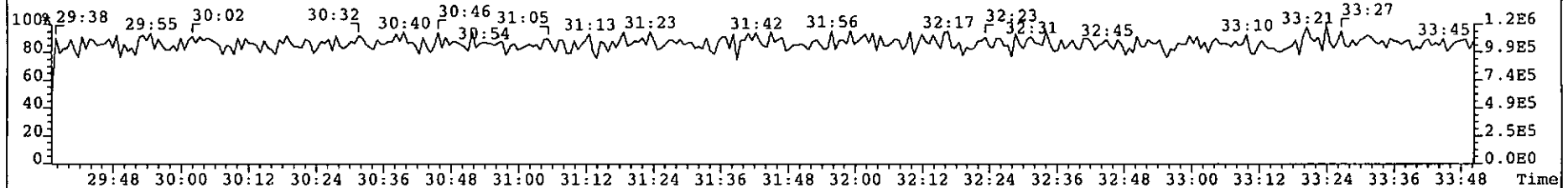
Peak Locate Examination:14-JUN-2009:18:22 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:5 Reference:PFK2



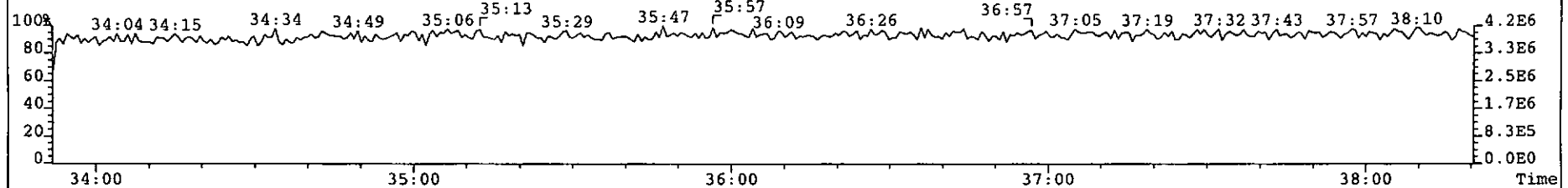
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC FI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



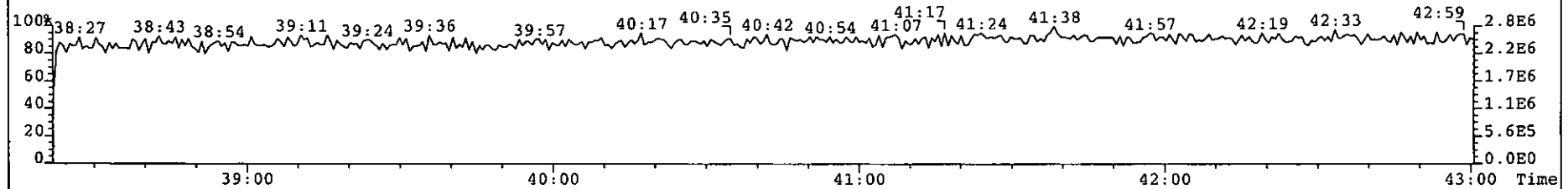
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



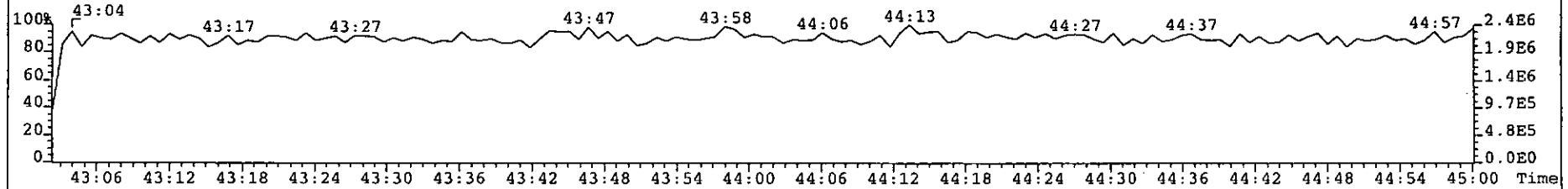
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



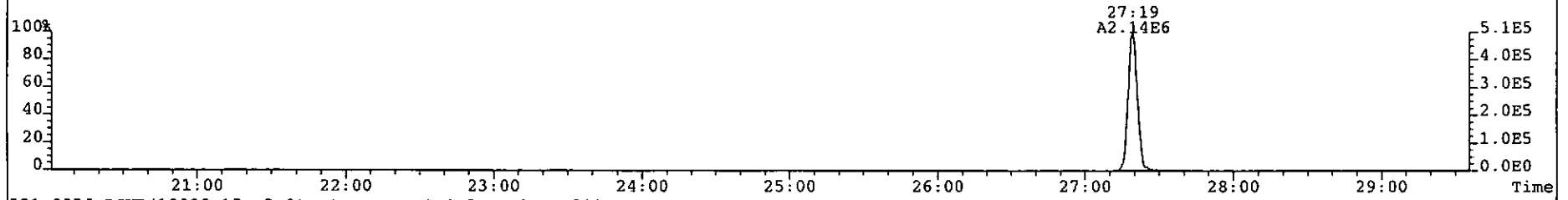
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



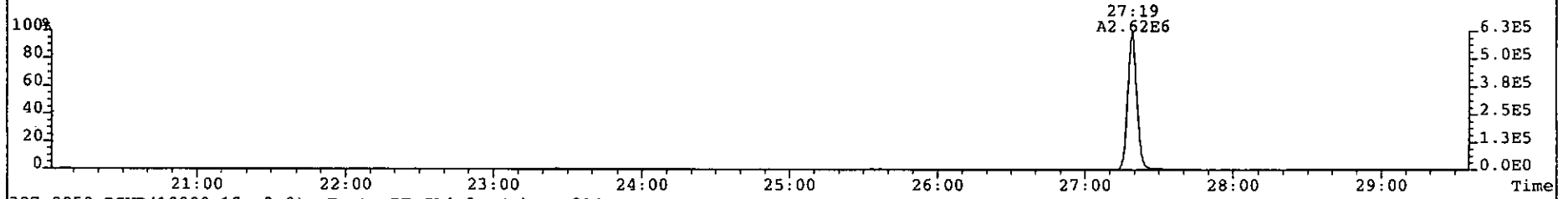
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



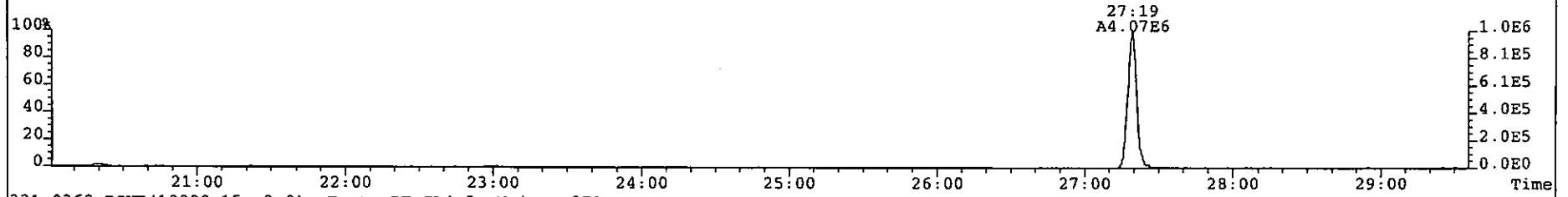
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
319.8965 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 200



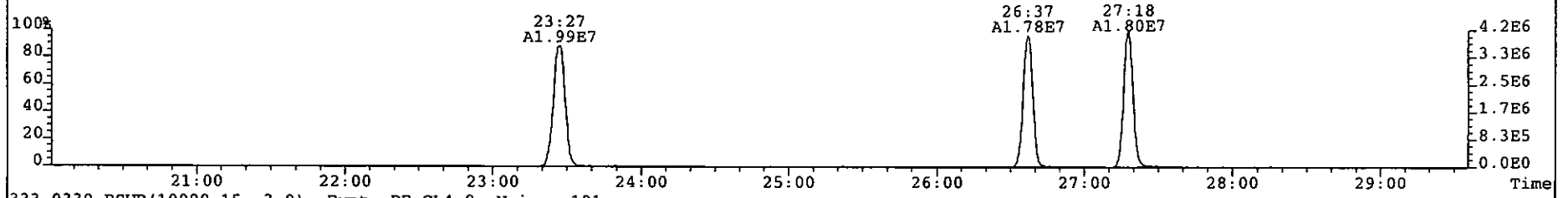
321.8936 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 211



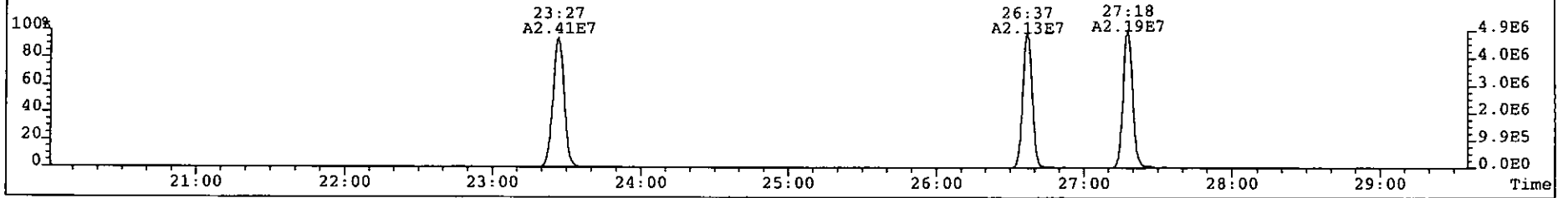
327.8850 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 214



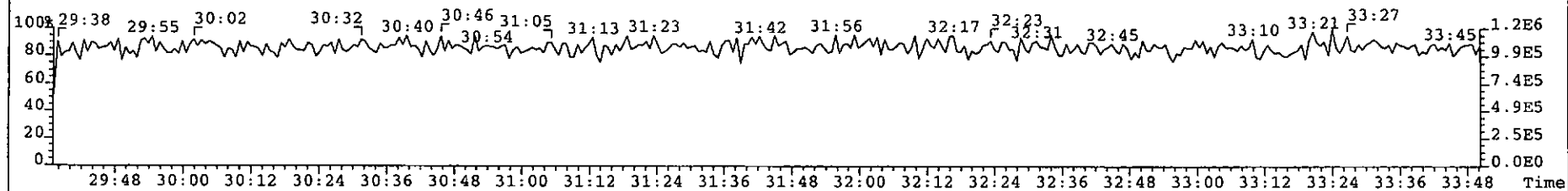
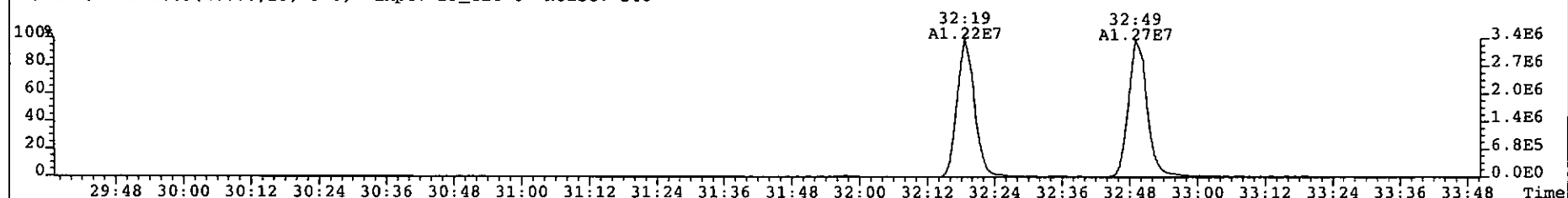
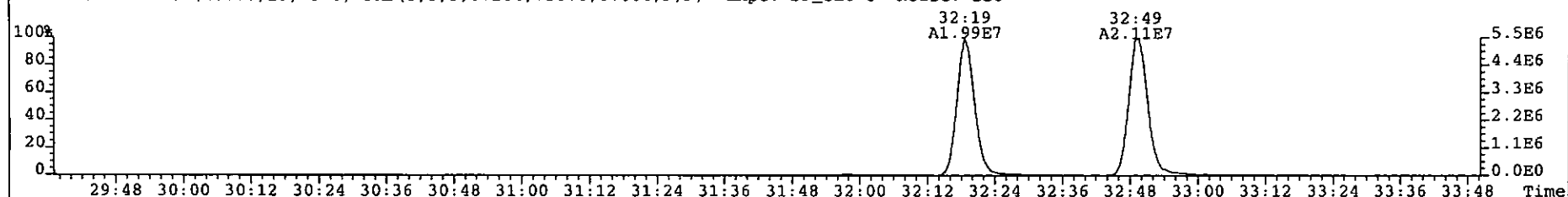
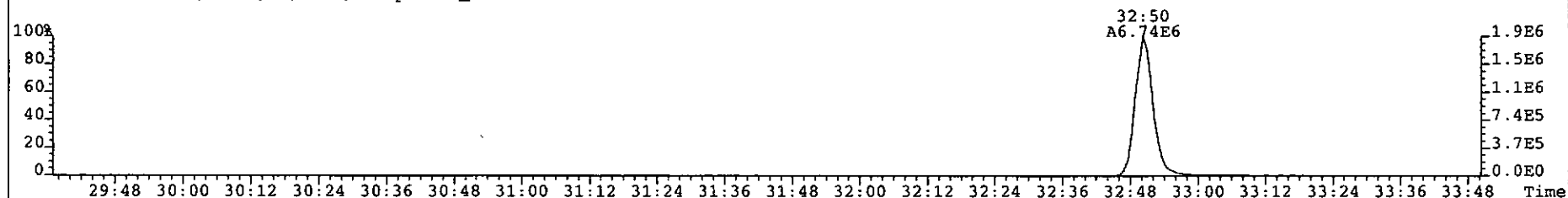
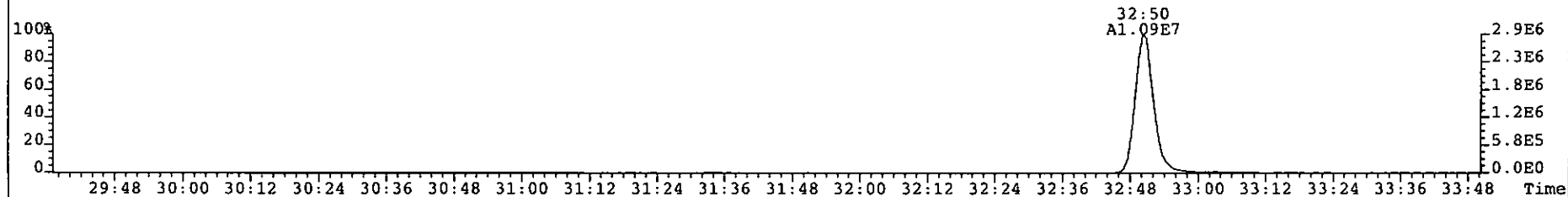
331.9368 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 371



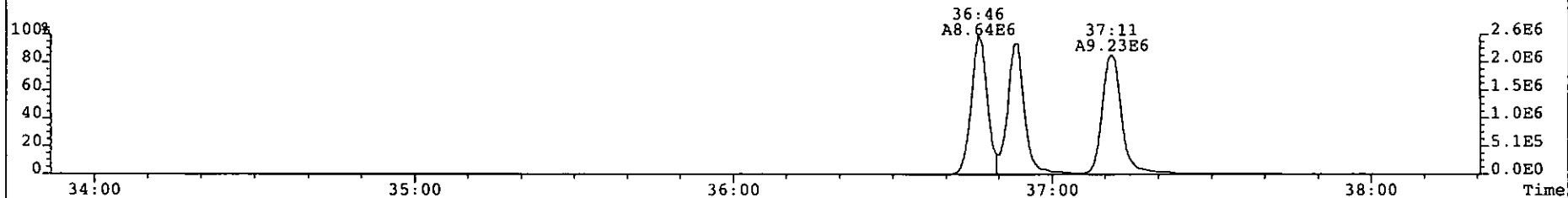
333.9339 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 191



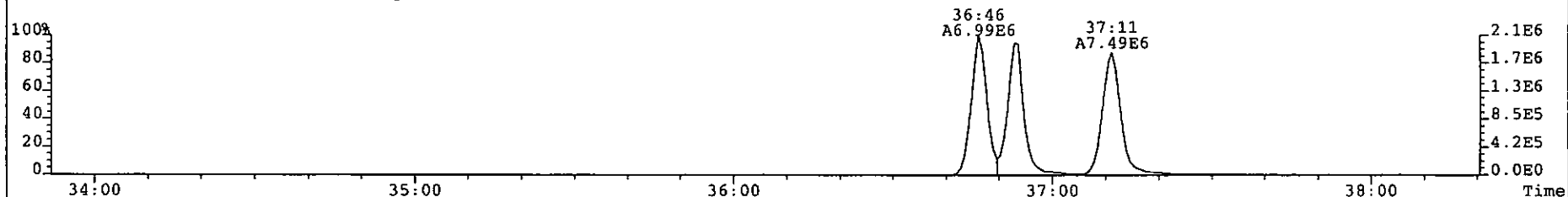
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
355.8546 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 248



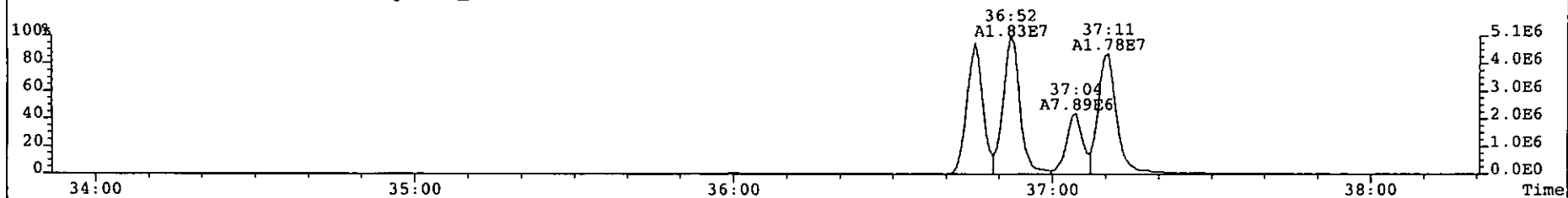
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
389.8156 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 316



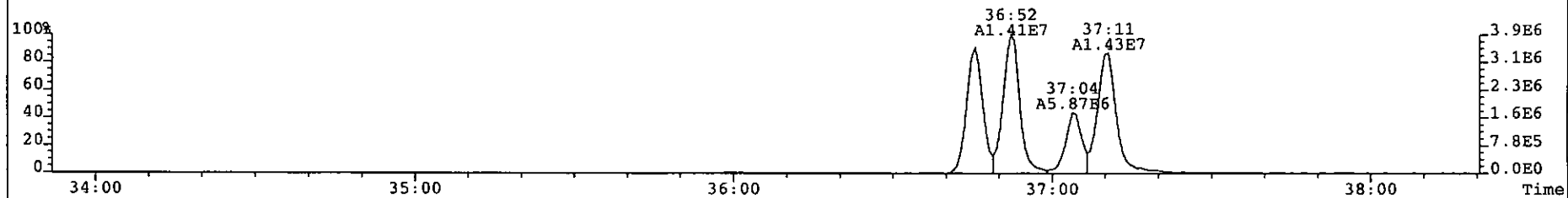
391.8127 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 338



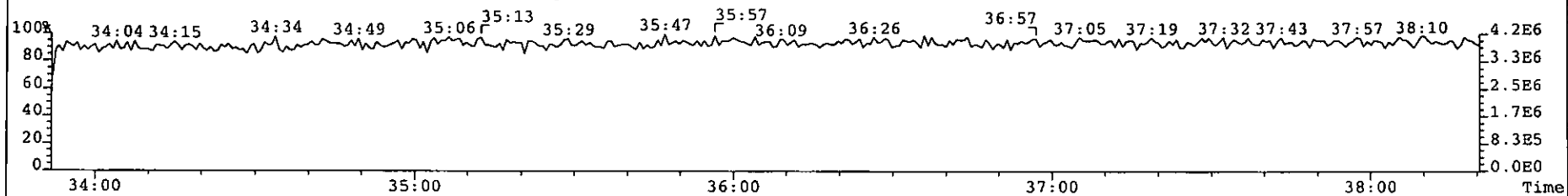
401.8559 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 311



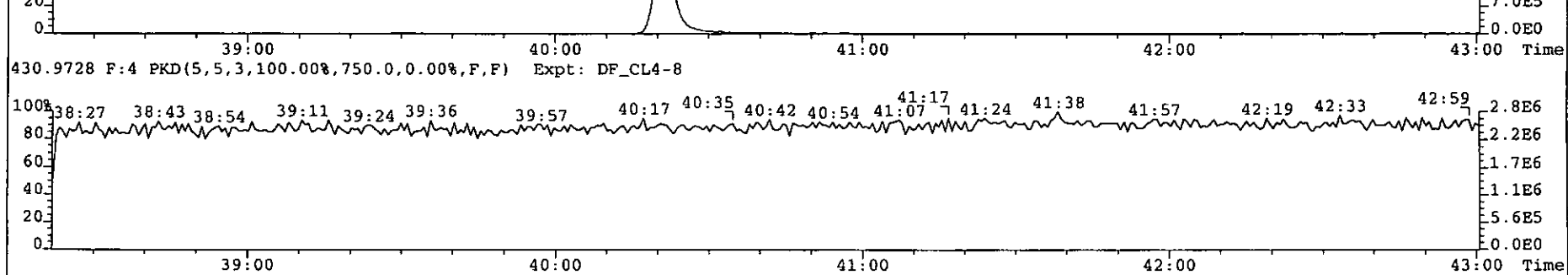
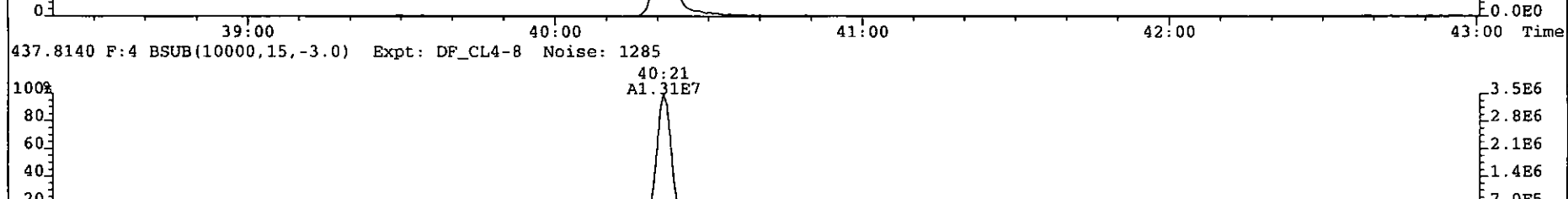
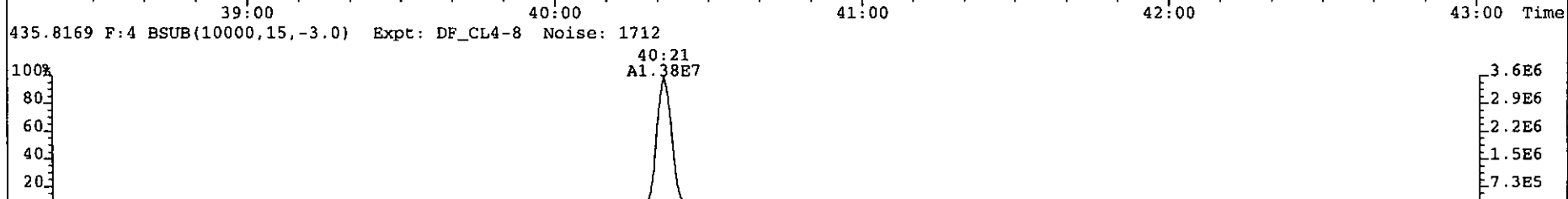
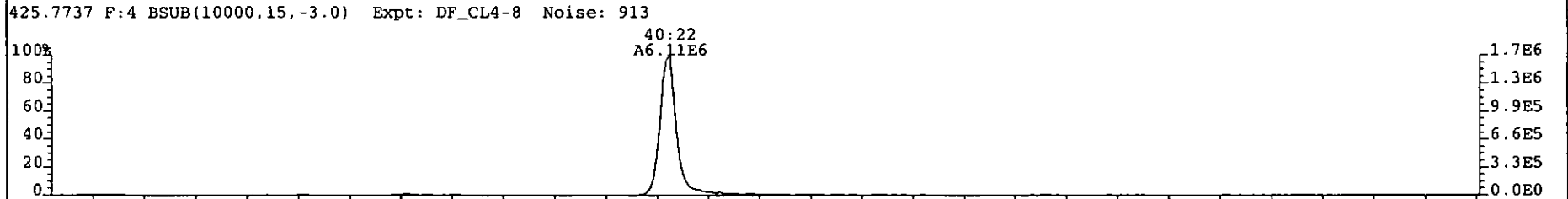
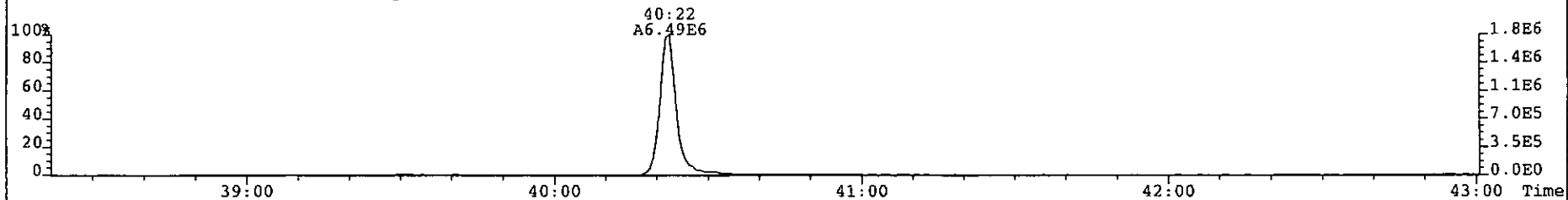
403.8530 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 325



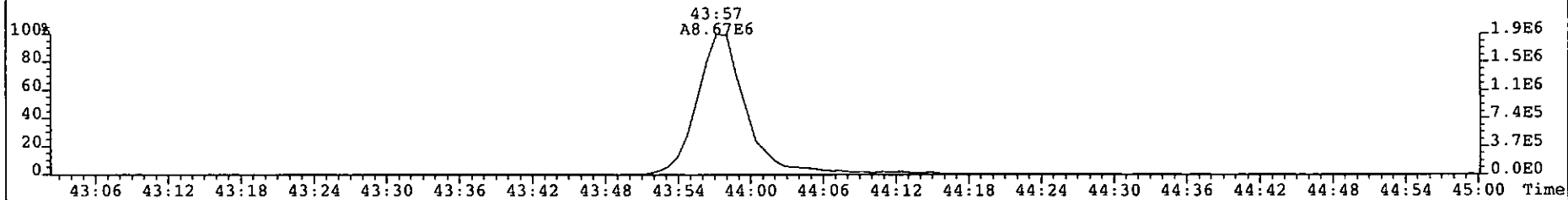
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



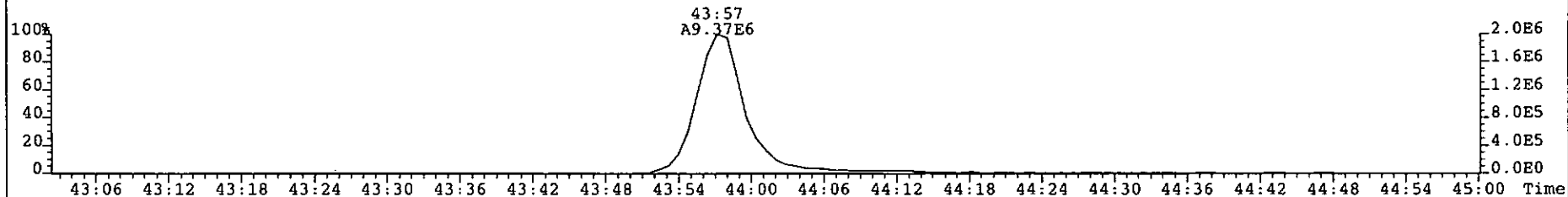
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
423.7767 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 732



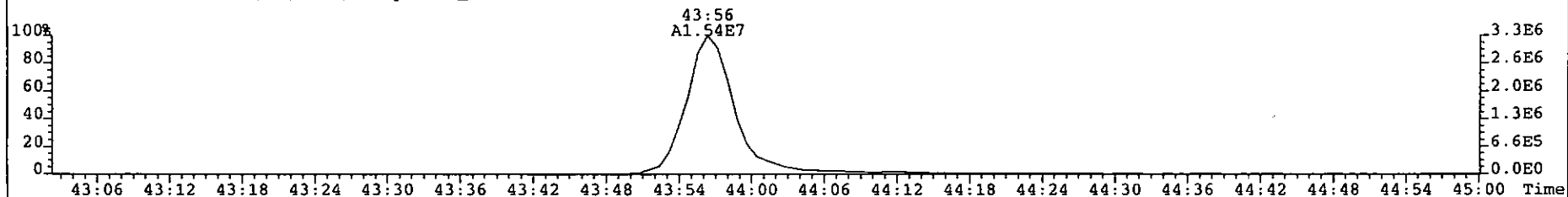
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
457.7377 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 408



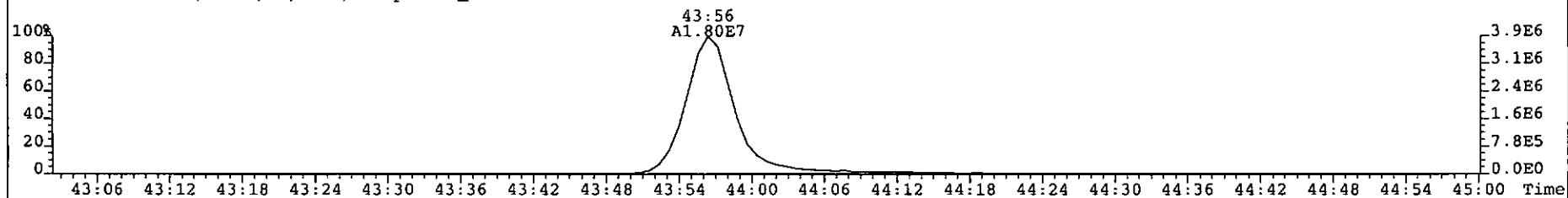
459.7348 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 648



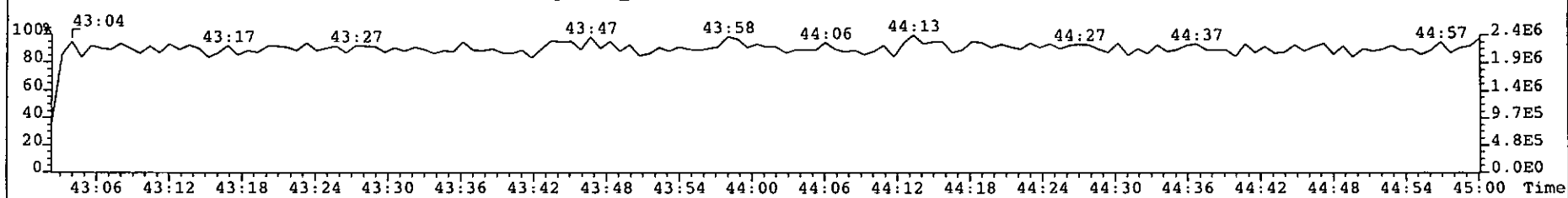
469.7780 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 423



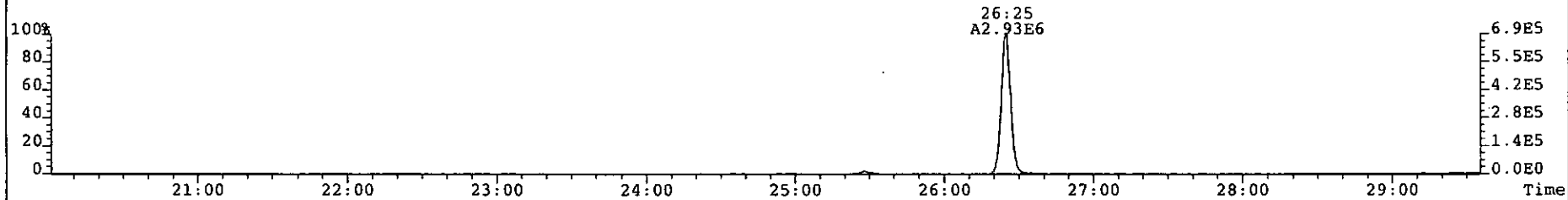
471.7750 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 919



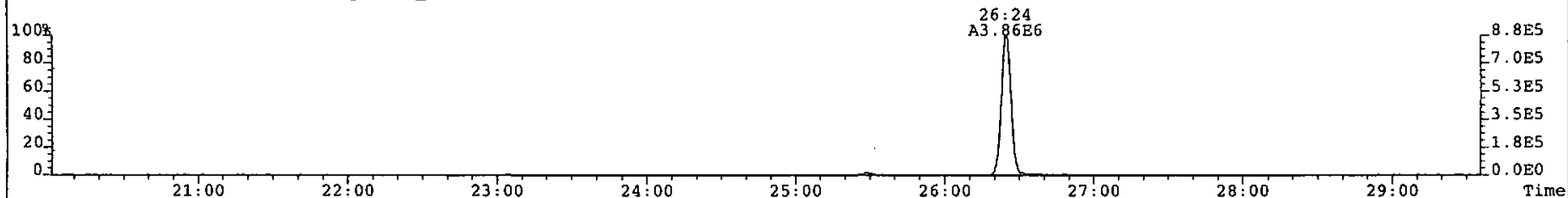
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



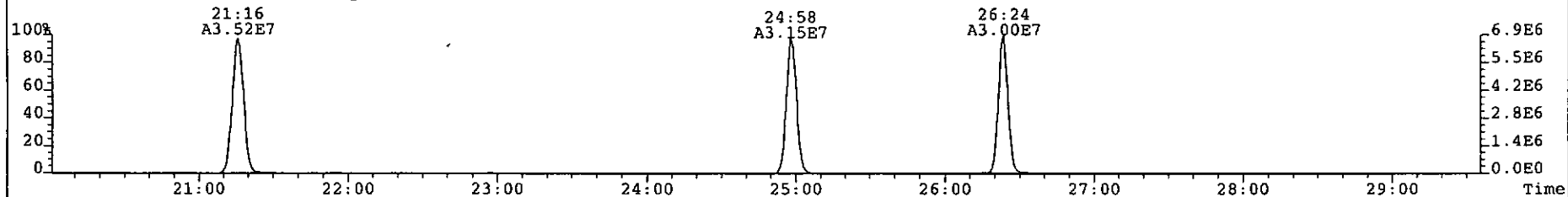
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
303.9016 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 308



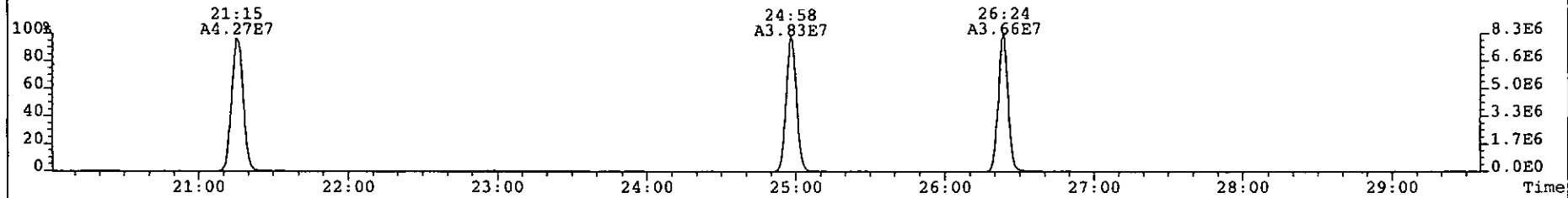
305.8987 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 284



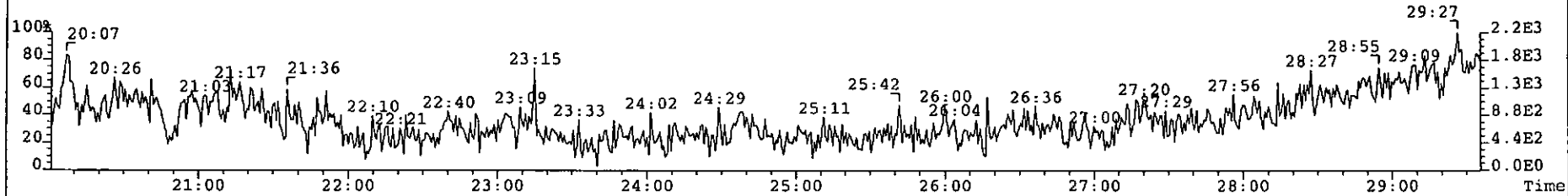
315.9419 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 366



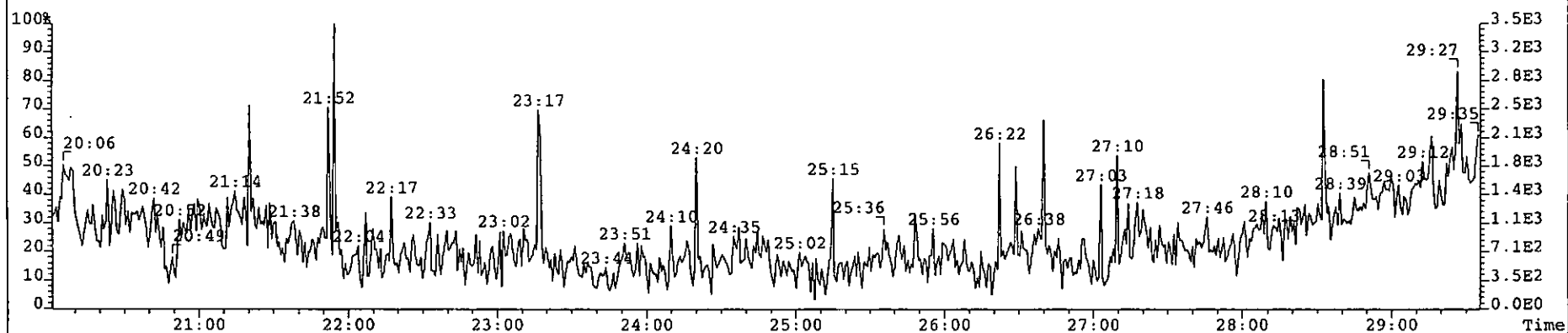
317.9389 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 368



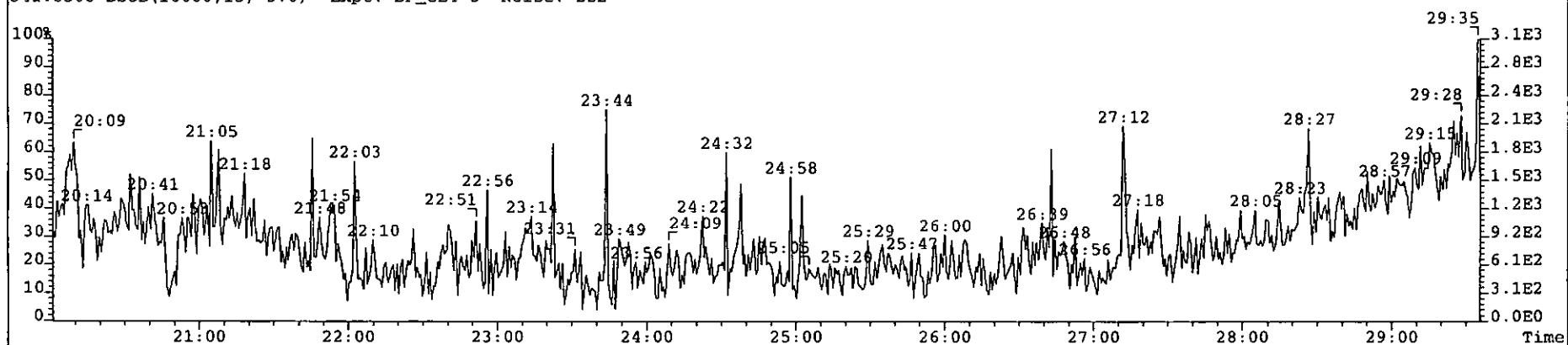
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 228



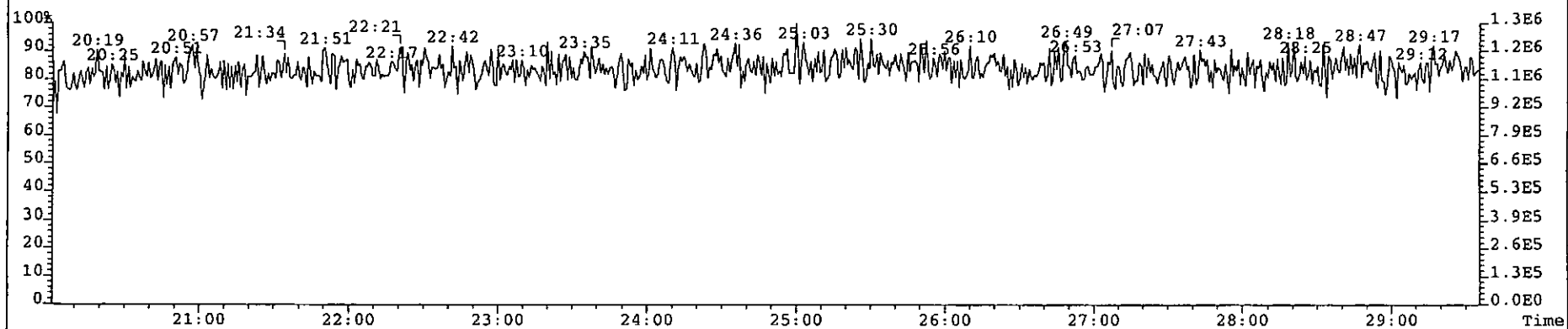
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
339.8597 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 229



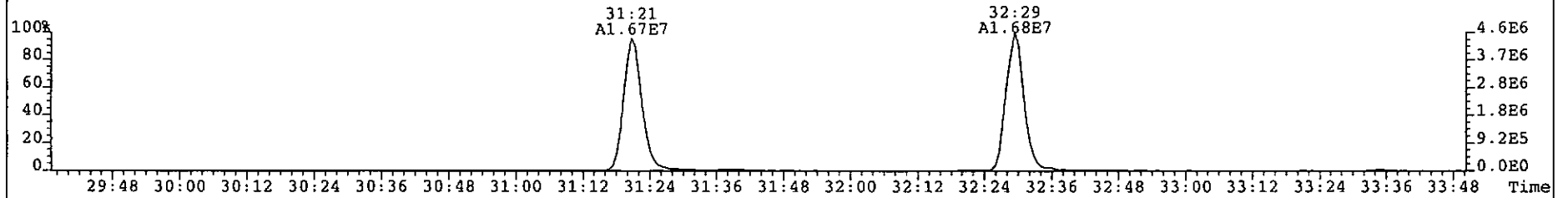
341.8568 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 222



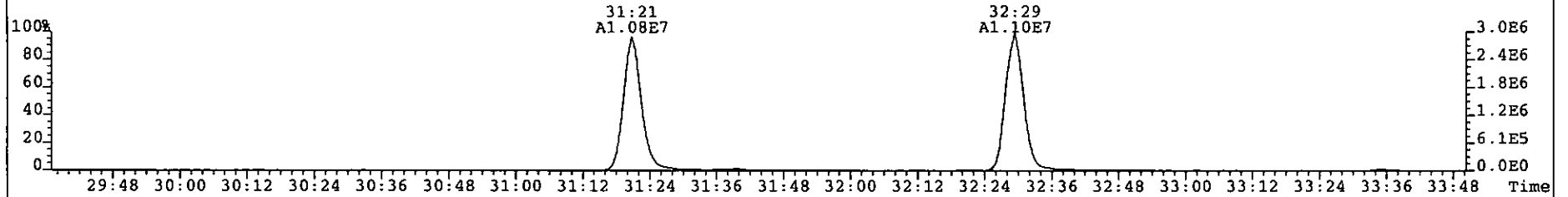
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



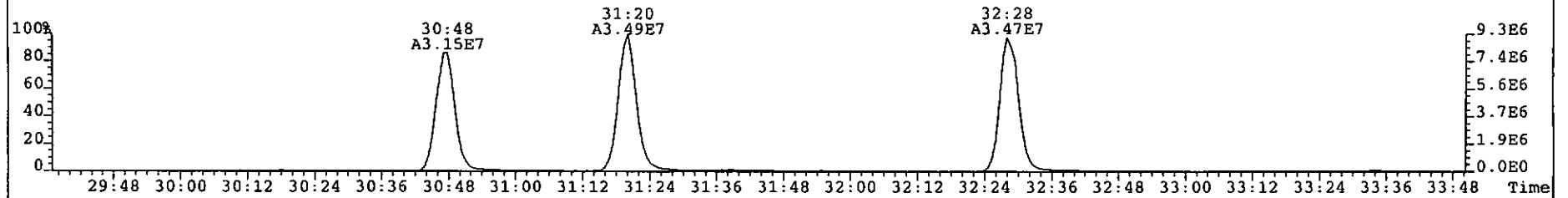
File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
339.8597 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 965



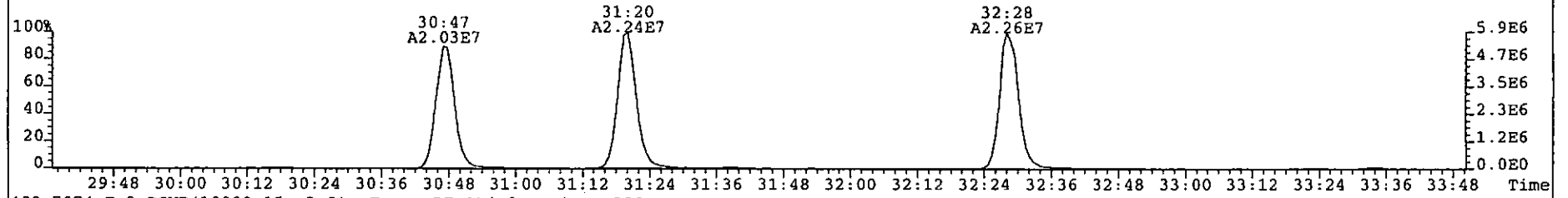
341.8568 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 943



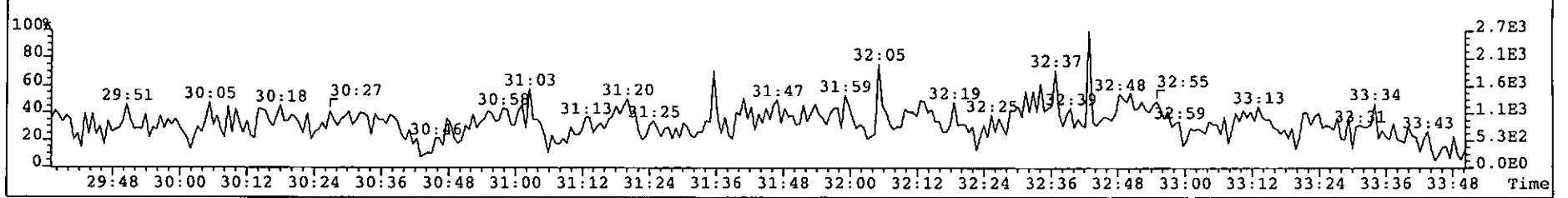
351.9000 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3087



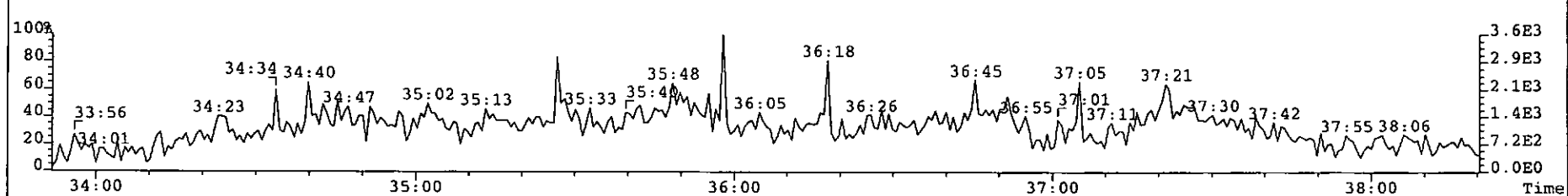
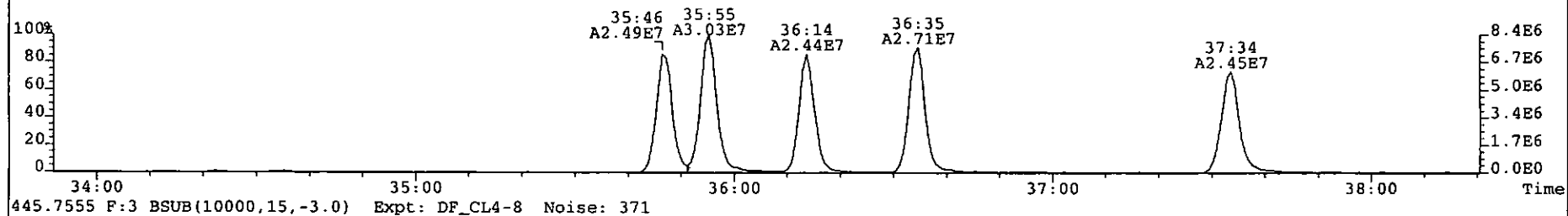
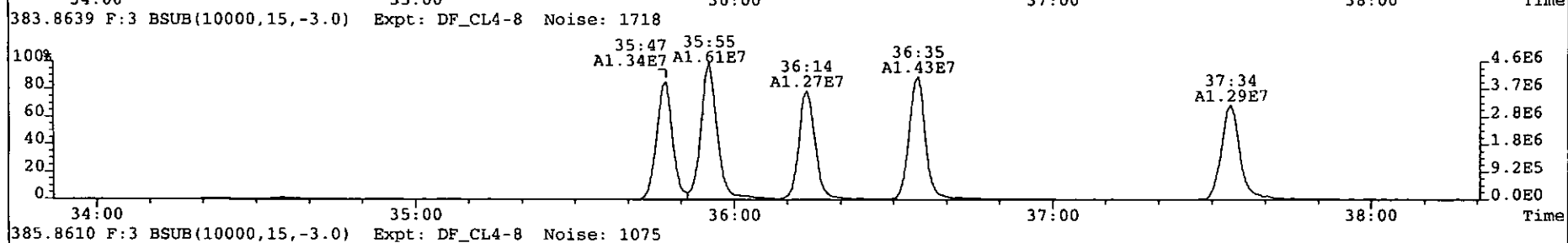
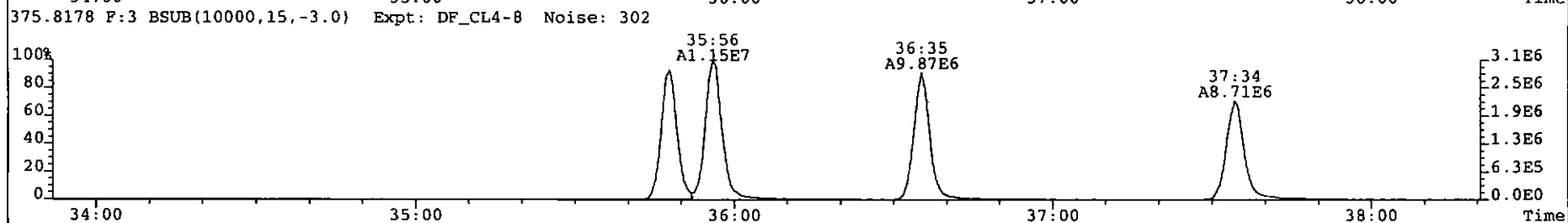
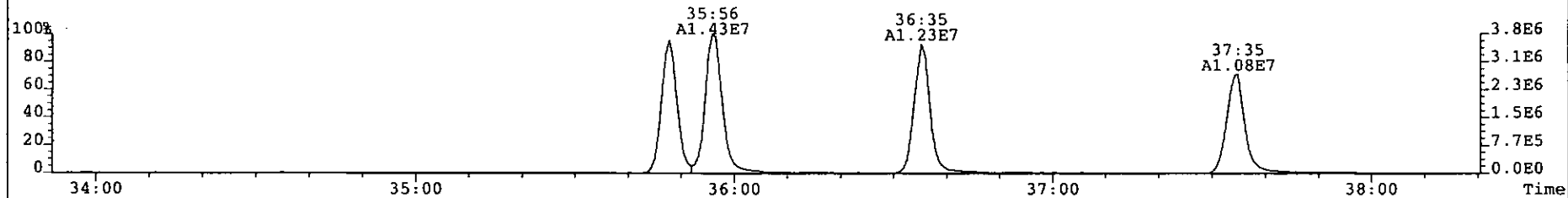
353.8970 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1929



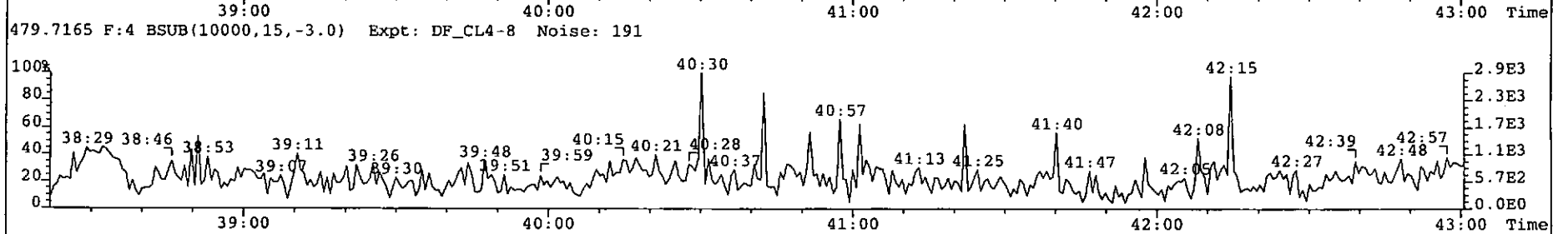
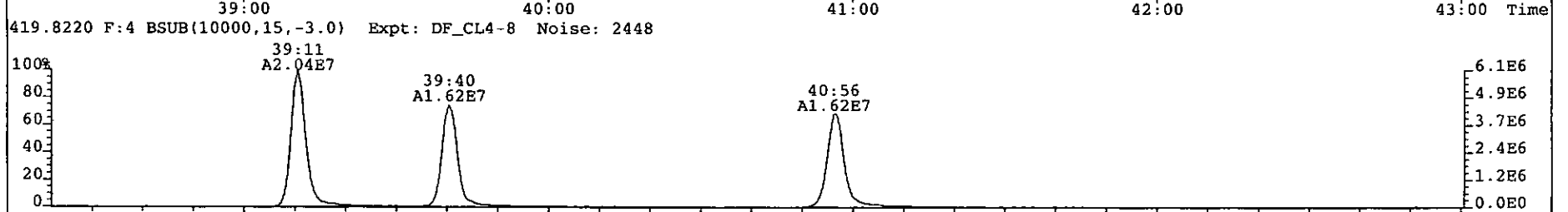
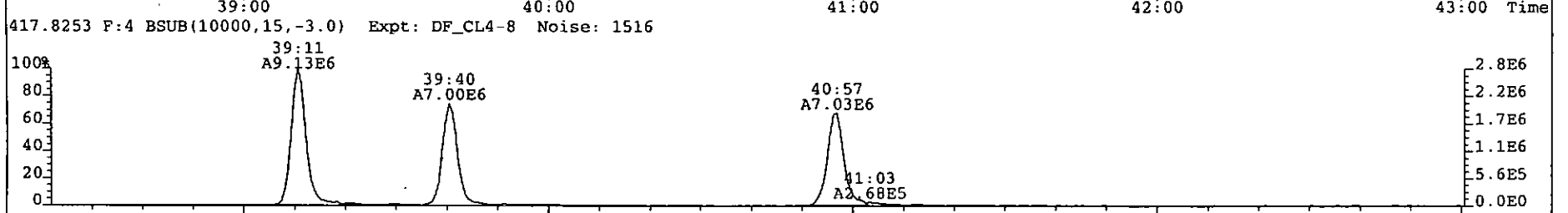
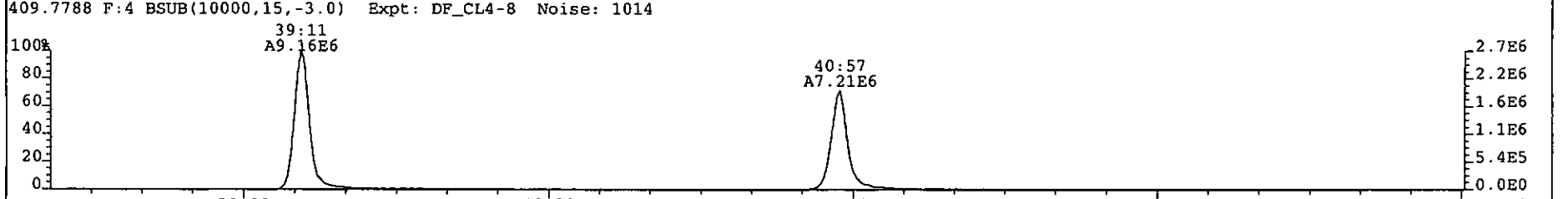
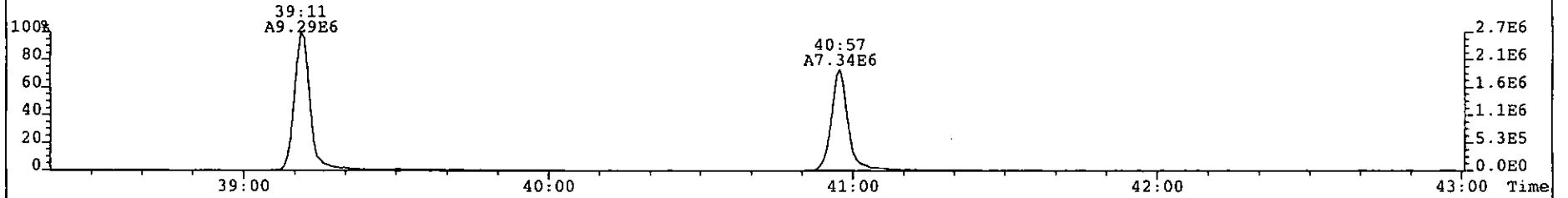
409.7974 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 289



File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
373.8207 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 493

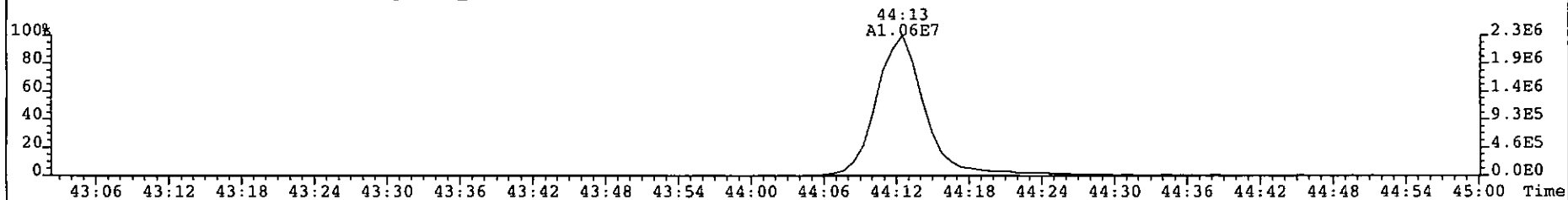


File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
407.7818 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1054

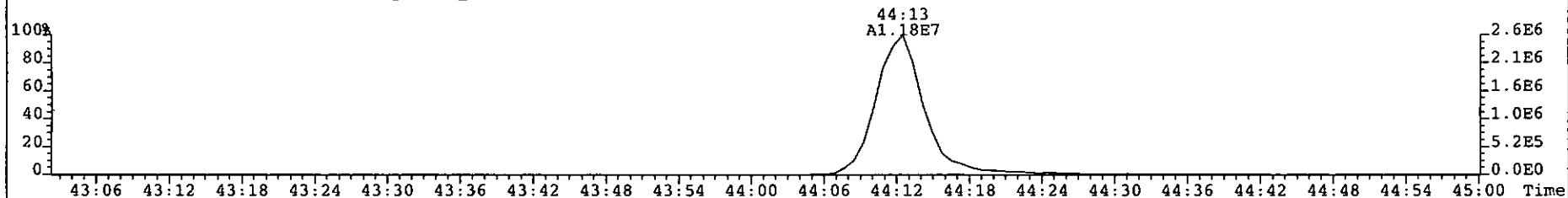


File: 090614P1 Acq: 14-JUN-2009 09:06:36 GC EI+ Voltage SIR Autospec-UltimaE

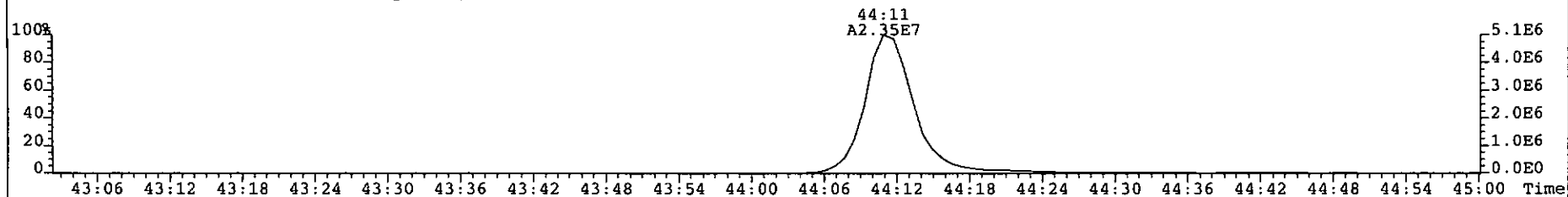
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
441.7428 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 124



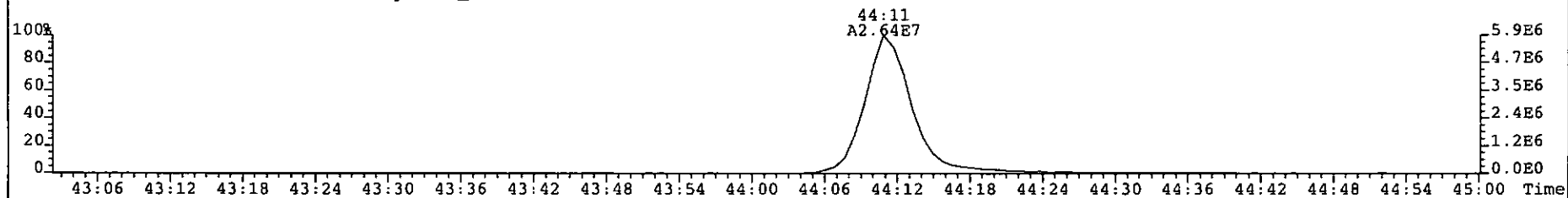
443.7398 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 144



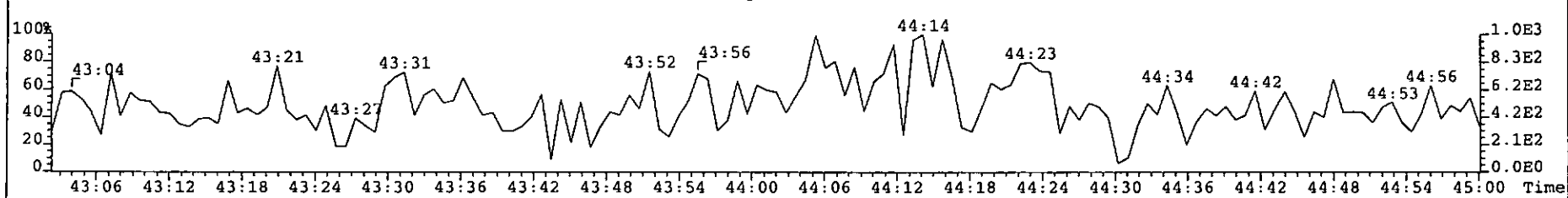
453.7830 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 165



455.7801 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 168



513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 163



OK - 1M 30 Dec 08


Initial Calibration RRF Summary (ICAL) Analytical Perspectives [Form: RRF7]

Cal filename: MM1_DF_07012007A_25DEC08 Cal date: 25-DEC-08

pg/ml

Data filename: 081225P1 Samp# 1 0.25 Samp# 2 0.50 Samp# 3 2.0 Samp# 4 10 Samp# 5 40 Samp# 6 200 Samp# 7 500

Type	Name	Mean	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Ax	2,3,7,8-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ax	1,2,3,7,8-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Ax	1,2,3,4,7,8-HxCDD	1.08	3.93 %	1.01	1.06	1.04	1.11	1.11	1.12	1.12
Ax	1,2,3,6,7,8-HxCDD	0.94	5.69 %	0.92	0.84	0.93	0.96	0.99	0.97	0.99
Ax	1,2,3,7,8,9-HxCDD	0.99	5.96 %	0.96	0.89	0.96	1.02	1.06	1.02	1.04
Ax	1,2,3,4,6,7,8-HpCDD	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Ax	OCDD	1.06	4.85 %	1.02	1.00	1.03	1.04	1.10	1.09	1.14
Ax2	OCDD-a	0.06	7.60 %	*	*	*	0.06	0.06	0.06	0.07
Ax	2,3,7,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ax	1,2,3,7,8-PeCDF	0.98	3.53 %	0.95	0.96	0.94	0.98	1.01	1.01	1.03
Ax	2,3,4,7,8-PeCDF	1.01	2.72 %	0.99	0.97	0.99	1.03	1.04	1.02	1.05
Ax	1,2,3,4,7,8-HxCDF	1.22	4.11 %	1.19	1.14	1.18	1.23	1.26	1.24	1.28
Ax	1,2,3,6,7,8-HxCDF	1.15	5.04 %	1.07	1.09	1.12	1.17	1.21	1.18	1.22
Ax	2,3,4,6,7,8-HxCDF	1.13	3.90 %	1.08	1.09	1.10	1.13	1.14	1.18	1.19
Ax	1,2,3,7,8,9-HxCDF	1.12	4.77 %	1.04	1.06	1.08	1.13	1.15	1.16	1.18
Ax	1,2,3,4,6,7,8-HpCDF	1.37	3.84 %	1.27	1.36	1.34	1.37	1.40	1.40	1.42
Ax	1,2,3,4,7,8,9-HpCDF	1.32	6.19 %	1.22	1.22	1.28	1.37	1.36	1.39	1.41
Ax	OCDF	0.94	3.04 %	0.96	0.91	0.89	0.94	0.96	0.95	0.97
Ax2	OCDF-a	0.05	7.57 %	*	*	*	0.05	0.05	0.05	0.06
ES	13C-2,3,7,8-TCDD	0.99	3.51 %	0.98	0.96	0.98	0.98	0.98	1.05	1.04
ES	13C-1,2,3,7,8-PeCDD	0.83	10.15 %	0.78	0.77	0.80	0.77	0.81	0.93	0.98
ES	13C-1,2,3,4,7,8-HxCDD	1.08	9.62 %	1.01	1.02	1.06	1.01	1.01	1.20	1.26
ES	13C-1,2,3,6,7,8-HxCDD	1.23	10.29 %	1.15	1.15	1.13	1.15	1.18	1.38	1.43
ES	13C-1,2,3,7,8,9-HxCDD	1.21	9.75 %	1.14	1.14	1.16	1.13	1.13	1.36	1.40
ES	13C-1,2,3,4,6,7,8-HpCDD	0.98	10.32 %	0.93	0.90	0.94	0.93	0.92	1.12	1.14
ES	13C-OCDD	0.66	16.97 %	0.59	0.55	0.62	0.60	0.61	0.80	0.84
ES	13C-2,3,7,8-TCDF	0.96	2.90 %	0.94	0.93	0.94	0.95	0.95	0.99	1.00
ES	13C-1,2,3,7,8-PeCDF	0.85	9.93 %	0.79	0.77	0.83	0.81	0.83	0.97	0.98
ES	13C-2,3,4,7,8-PeCDF	0.88	10.13 %	0.81	0.81	0.85	0.83	0.86	1.01	1.02
ES	13C-1,2,3,4,7,8-HxCDF	1.47	8.67 %	1.40	1.40	1.42	1.39	1.38	1.65	1.67
ES	13C-1,2,3,6,7,8-HxCDF	1.78	10.82 %	1.68	1.65	1.65	1.65	1.68	2.04	2.07
ES	13C-2,3,4,6,7,8-HxCDF	1.61	7.86 %	1.52	1.49	1.56	1.55	1.57	1.76	1.81
ES	13C-1,2,3,7,8,9-HxCDF	1.40	10.16 %	1.31	1.25	1.37	1.33	1.35	1.58	1.62
ES	13C-1,2,3,4,6,7,8-HpCDF	1.16	11.44 %	1.08	1.04	1.11	1.09	1.09	1.34	1.36
ES	13C-1,2,3,4,7,8,9-HpCDF	0.92	13.25 %	0.84	0.82	0.87	0.84	0.88	1.06	1.13
ES	13C-OCDF	1.04	19.54 %	0.90	0.84	0.95	0.94	0.98	1.28	1.37
CS	37Cl-2,3,7,8-TCDD	0.99	4.92 %	*	0.98	0.93	0.97	0.99	1.07	*
CS	13C-1,2,3,4,7-PeCDD	0.77	2.89 %	0.75	0.76	0.78	0.74	0.78	0.79	0.80
CS	13C-1,2,3,4,6-PeCDF	0.79	2.99 %	0.77	0.77	0.80	0.77	0.81	0.83	0.80
CS	13C-1,2,3,4,6,9-HxCDF	1.41	2.94 %	1.40	1.42	1.43	1.35	1.38	1.48	1.43
CS	13C-1,2,3,4,6,8,9-HpCDF	0.91	3.79 %	0.91	0.89	0.95	0.85	0.91	0.95	0.91
NA	n/a	Div0	* %	*	*	*	*	*	*	*
JS/RT	13C-1,2,3,4-TCDD	-	- %	-	-	-	-	-	-	-
JS	13C-1,2,3,4-TCDF	-	- %	-	-	-	-	-	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	-	- %	-	-	-	-	-	-	-

Analyst: 
Date: 26 Dec 08

SS	37C1-2,3,7,8-TCDD	1.00	2.73 %	*	1.02	0.96	1.00	1.01	1.02	*
SS	13C-1,2,3,4,7-PeCDD	0.93	7.28 %	0.96	0.99	0.97	0.95	0.95	0.85	0.81
SS	13C-1,2,3,4,6-PeCDF	0.94	7.33 %	0.98	1.00	0.97	0.95	0.97	0.86	0.82
SS	13C-1,2,3,4,6,9-HxCDF	0.80	8.36 %	0.83	0.86	0.86	0.82	0.82	0.73	0.69
SS	13C-1,2,3,4,6,8,9-HpCDF	0.79	9.76 %	0.85	0.85	0.86	0.77	0.83	0.71	0.67
SBS	2,4,6,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
AY	1,3,6,8-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
AY	1,2,3,9-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
AY	1,2,8,9-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
AY	1,2,4,7,9-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
AY	1,2,3,8,9-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
AY	1,2,4,6,7,9-HxCDD	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
AY	1,2,3,4,6,7,9-HpCDD	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
AY	1,3,6,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
AY	2,3,4,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
AY	1,2,8,9-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
AY	1,3,4,6,8-PeCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
AY	1,2,3,8,9-PeCDF	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
AY	1,2,3,4,6,8-HxCDF	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
AS	13C-1,3,6,8-TCDD	1.09	2.09 %	1.09	1.10	1.04	1.10	1.08	1.08	1.11
AS	13C-1,3,6,8-TCDF	1.09	1.59 %	1.10	1.10	1.06	1.10	1.08	1.08	1.11

Initial Calibration RRF Summary (ICAL)

Analytical Perspectives

Run: 081225P1 Analyte: M23CMM1A Cal: MM1_DF_0701200»

Data filename: 081225P1

Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7
0.25	0.50	2.0	10	40	200	500

pg 1/ul

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Total Tetra-Dioxins	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Total Penta-Dioxins	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Total Hexa-Dioxins	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
Total Hepta-Dioxins	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Total Tetra-Furans	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Total Penta-Furans	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
Total Hexa-Furans	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
Total Hepta-Furans	1.35	4.65 %	1.25	1.30	1.31	1.37	1.38	1.39	1.42
TCDD EMPC	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
PeCDD EMPC	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
HxCDD EMPC	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
HpCDD EMPC	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
TCDF EMPC	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
PeCDF EMPC	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
HxCDF EMPC	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
HpCDF EMPC	1.35	4.65 %	1.25	1.30	1.31	1.37	1.38	1.39	1.42

8290B ICALs

Ax	MM1-DF-010606-25JAN06	MM1-DF-010606-16MAR06	MM1_SIL4181_20OCT06	MM1_DF_091806B_06NO V06	MM1_DF_091806B_14MA R07	MM1_DF_091806B_16AP R07	MM1_DF_07012007A_06A ug07	MM1_DF_07012007A_26D EC07	MM1_DF_07012007A_26D EC07	RSD	Mean	sd	PD from Mean	
2,3,7,8-TCDD	1	1.06	1.12	1.13	1.03	1.18	1.1	1.13	1.14	1.08	5.0	1.12	0.06	-3%
1,2,3,7,8-PeCDD	0.88	0.93	1.1	0.94	0.9	0.93	0.97	0.99	1.03	1	5.8	0.99	0.06	1%
1,2,3,4,7,8-HxCDD	0.92	1	1.2	1.1	0.98	1.1	1.13	1.12	1.16	1.08	6.3	1.09	0.07	-1%
1,2,3,6,7,8-HxCDD	0.93	1.03	1.06	1.03	0.94	1.03	1.04	1	1.04	0.94	6.4	1.05	0.07	-11%
1,2,3,7,8,9-HxCDD	0.91	0.99	1.07	1	0.9	1.03	1	1.08	1.1	0.99	5.5	1.01	0.06	-2%
1,2,3,4,6,7,8-HpCDD	0.83	0.9	1.08	0.87	0.75	0.94	0.91	0.98	1	0.97	7.7	0.95	0.07	2%
OCDD	0.98	1.04	1.1	0.9	0.81	0.93	0.94	1.1	1.11	1.06	7.6	1.00	0.08	6%
2,3,7,8-TCDF	0.86	0.99	1.09	1.05	0.97	1.07	1.03	1.04	1.15	1.05	6.9	1.02	0.07	3%
1,2,3,7,8-PeCDF	0.79	0.89	1.18	0.9	0.83	0.97	0.96	0.96	1.05	0.98	9.3	0.98	0.09	0%
2,3,4,7,8-PeCDF	0.94	1.08	1.15	0.94	0.87	1	0.99	1	1.09	1.01	6.8	1.01	0.07	0%
1,2,3,4,7,8-HxCDF	1.02	1.17	1.30	1.03	0.96	1.11	1.13	1.22	1.28	1.22	8.0	1.15	0.09	7%
1,2,3,6,7,8-HxCDF	0.99	1.12	1.27	1.02	0.94	1.12	1.12	1.17	1.2	1.15	7.2	1.14	0.08	1%
2,3,4,6,7,8-HxCDF	0.95	1.1	1.24	0.99	0.9	1.07	1.06	1.14	1.18	1.13	8.2	1.09	0.09	4%
1,2,3,7,8,9-HxCDF	1.03	1.19	1.24	1.03	0.94	1.12	1.12	1.14	1.19	1.13	6.4	1.12	0.07	0%
1,2,3,4,6,7,8-HpCDF	1.17	1.32	1.46	1.15	0.99	1.18	1.2	1.39	1.42	1.37	9.2	1.32	0.12	4%
1,2,3,4,7,8,9-HpCDF	1.22	1.37	1.51	1.16	1	1.21	1.2	1.37	1.4	1.32	8.8	1.32	0.12	0%
OCDF	0.86	0.99	1.07	0.78	0.72	0.86	0.83	0.95	0.97	0.94	9.1	0.94	0.09	0%
ES														
2,3,7,8-TCDD	1.03	1.03	1.05	1.11	1.1	1.12	1.09	1.05	1.02	0.99	4.8	1.10	0.05	-10%
1,2,3,7,8-PeCDD	0.77	0.83	0.95	1.05	1.02	1	1.02	0.92	0.96	0.83	8.1	0.95	0.08	-13%
1,2,3,4,7,8-HxCDD	1.06	1.09	1.19	1.06	1.04	1.1	1.06	1.09	1.12	1.08	4.1	1.06	0.04	2%
1,2,3,6,7,8-HxCDD	1.22	1.2	1.3	1.16	1.19	1.16	1.2	1.13	1.23	1.23	5.8	1.15	0.07	7%
1,2,3,7,8,9-HxCDD	1.26	1.22	1.35	1.24	1.25	1.23	1.25	1.17	1.23	1.21	4.1	1.22	0.05	-1%
1,2,3,4,6,7,8-HpCDD	0.92	0.94	1.11	1.17	1.04	1.01	1.09	1.03	1.14	0.98	10.2	0.98	0.10	0%
OCDD	0.7	0.68	0.86	0.98	0.6	0.72	0.83	0.68	0.72	0.66	12.7	0.77	0.10	-14%
2,3,7,8-TCDF	0.94	0.96	1.02	1.04	0.97	1.04	1	0.99	0.94	0.96	3.5	1.00	0.04	-4%
1,2,3,7,8-PeCDF	0.73	0.8	0.96	1.05	1.01	0.91	0.9	0.91	0.97	0.85	10.0	0.86	0.09	-1%
2,3,4,7,8-PeCDF	0.67	0.73	0.96	1.05	1.04	0.94	1	0.89	0.97	0.88	10.6	0.89	0.10	-2%
1,2,3,4,7,8-HxCDF	1.24	1.4	1.58	1.65	1.39	1.73	1.64	1.57	1.66	1.47	9.1	1.52	0.14	-3%
1,2,3,6,7,8-HxCDF	1.43	1.55	1.79	1.89	1.65	1.86	1.88	1.71	1.99	1.78	10.0	1.68	0.17	6%
2,3,4,6,7,8-HxCDF	1.32	1.44	1.66	1.71	1.5	1.75	1.74	1.61	1.77	1.61	8.6	1.57	0.13	2%
1,2,3,7,8,9-HxCDF	1.16	1.29	1.5	1.52	1.26	1.58	1.53	1.45	1.57	1.4	10.4	1.35	0.14	4%
1,2,3,4,6,7,8-HpCDF	0.86	1.06	1.28	1.3	1.03	1.28	1.32	1.23	1.35	1.16	12.9	1.13	0.15	3%
1,2,3,4,7,8,9-HpCDF	0.7	0.83	1.04	1.12	0.85	1.04	1.11	1.01	1.09	0.92	15.0	0.92	0.14	1%
OCDF	0.85	0.95	1.2	1.39	1.05	1.08	1.26	1.06	1.16	1.04	14.6	1.08	0.16	-4%

8290B/23 ICAL (pg/μL)

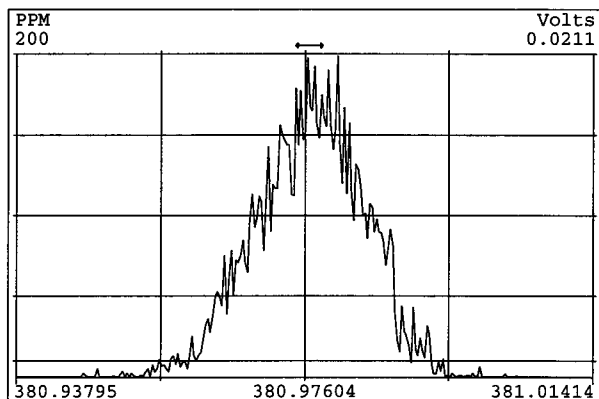
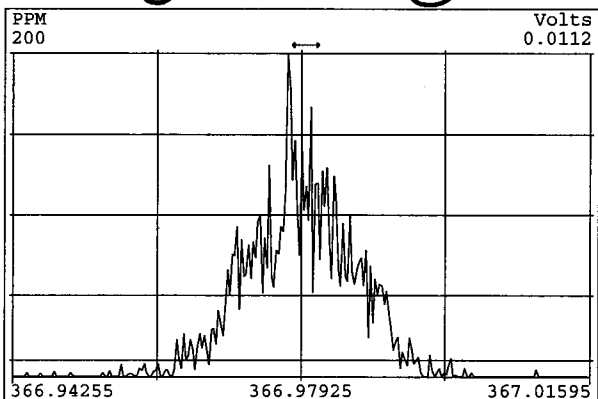
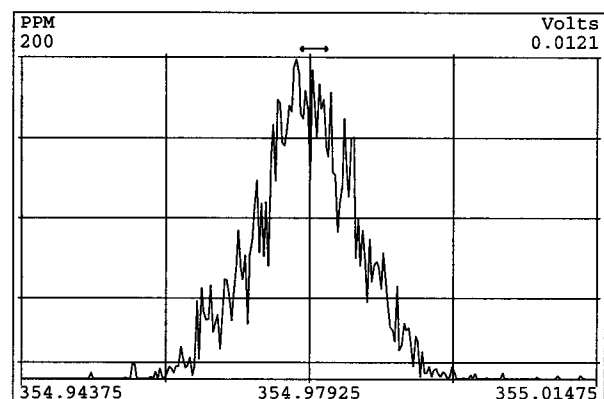
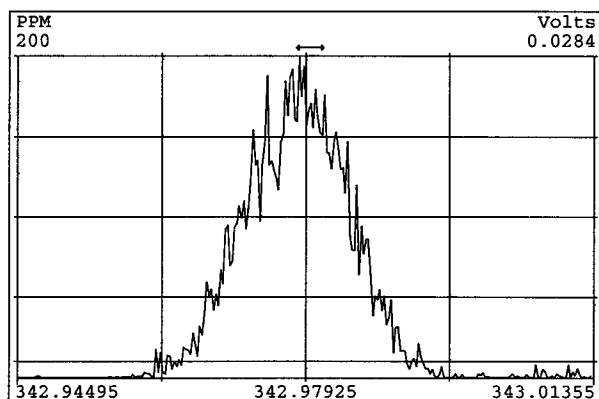
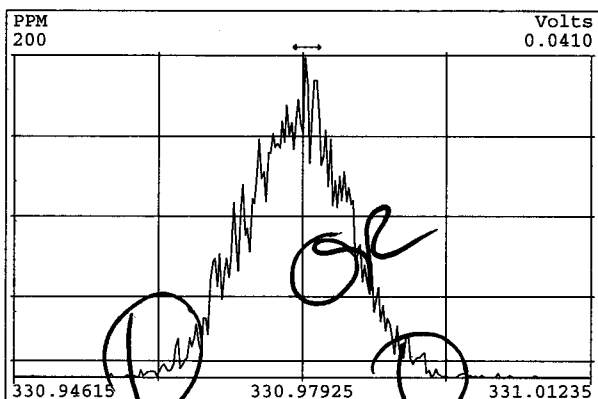
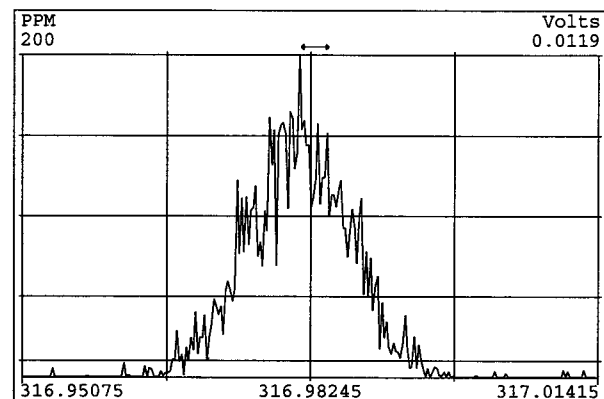
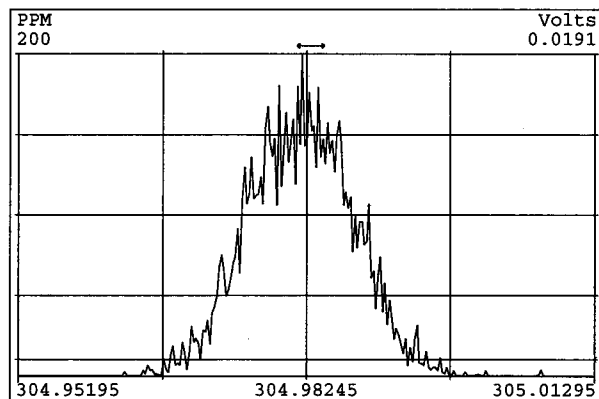
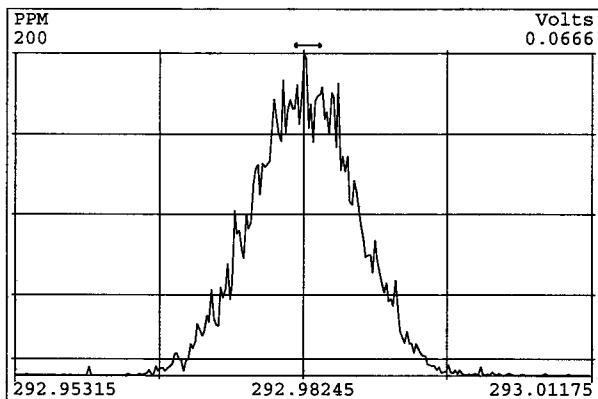
ANALYTICAL PERSPECTIVES	CS0	CS1	CS2	CS3	CS4	CS5	CS6
Unlabeled Analytes							
2,3,7,8-TCDD	0.25	0.5	2	10	40	200	500
2,3,7,8-TCDF	0.25	0.5	2	10	40	200	500
1,2,3,7,8-PeCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8-PeCDF	1.25	2.5	10	50	200	1000	2500
2,3,4,7,8-PeCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,6,7,8-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8,9-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,6,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8,9-HxCDF	1.25	2.5	10	50	200	1000	2500
2,3,4,6,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,6,7,8-HpCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,4,6,7,8-HpCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8,9-HpCDF	1.25	2.5	10	50	200	1000	2500
OCDD	2.5	5	20	100	400	2000	5000
OCDF	2.5	5	20	100	400	2000	5000
Extraction Standards							
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 -1,2,3,7,8,9-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 -2,3,4,6,7,8-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 -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
¹³ C ₁₂ -OCDF	200	200	200	200	200	200	200
Cleanup Standards							
³⁷ Cl ₄ -2,3,7,8-TCDD	-	0.5	2	10	40	200	-
¹³ C ₁₂ -1,2,3,4,7-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,8,9-HpCDF	100	100	100	100	100	100	100
Alternate Standards							
¹³ C ₁₂ -1,3,6,8-TCDD				100			
¹³ C ₁₂ -1,3,6,8-TCDF				100			
Injection Standards							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7-HxCDD	50	50	50	50	50	50	50

Analytical Perspectives - Injection Log

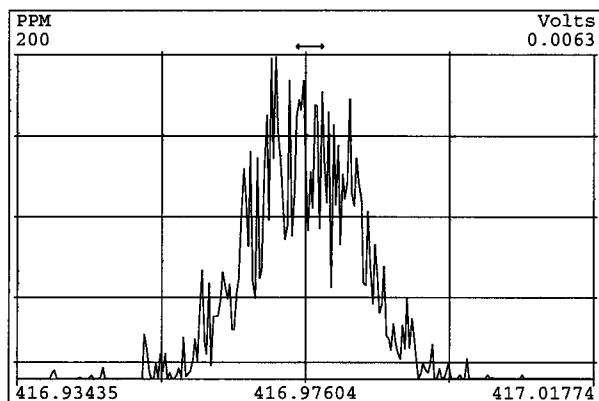
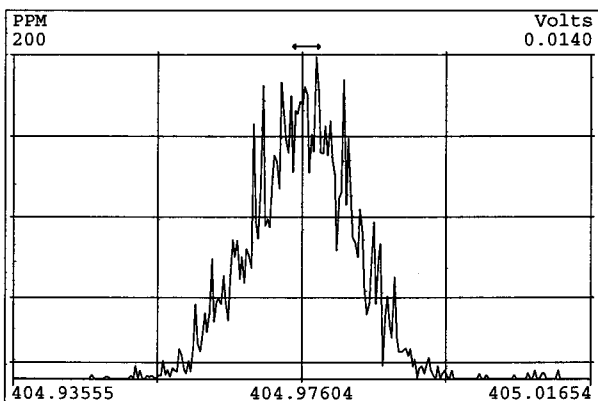
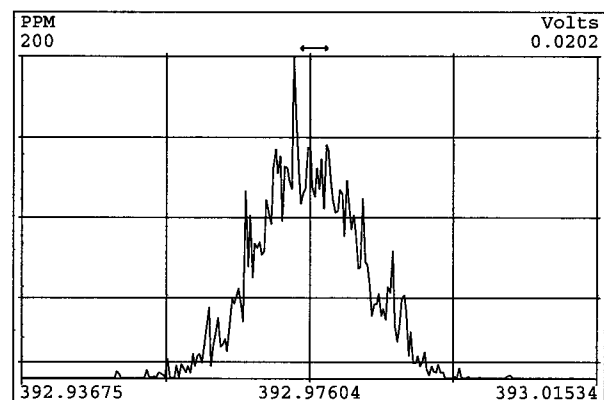
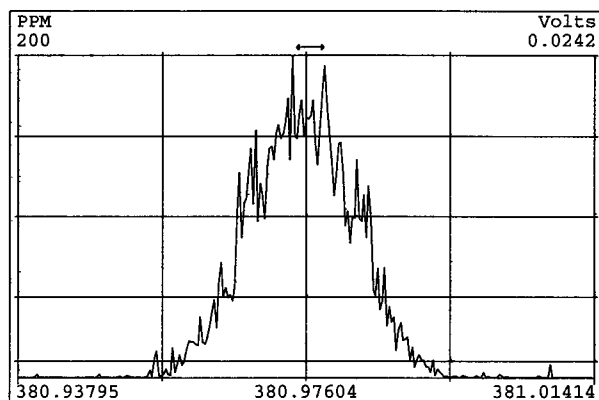
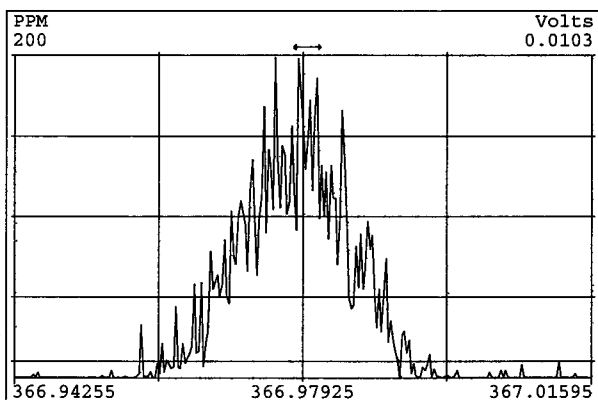
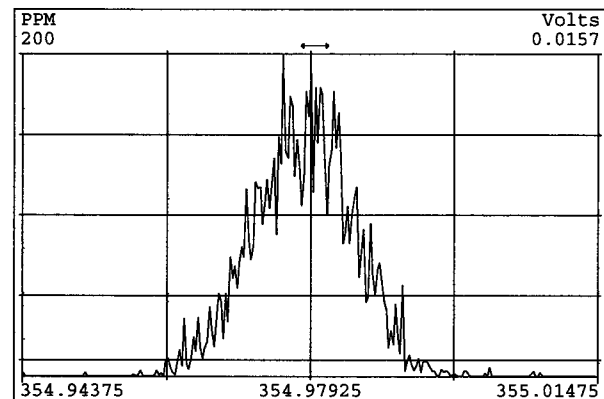
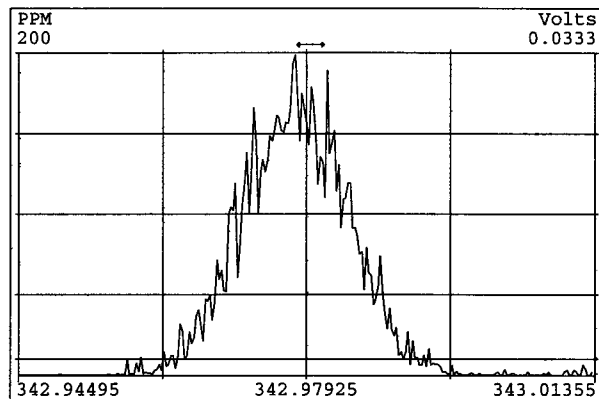
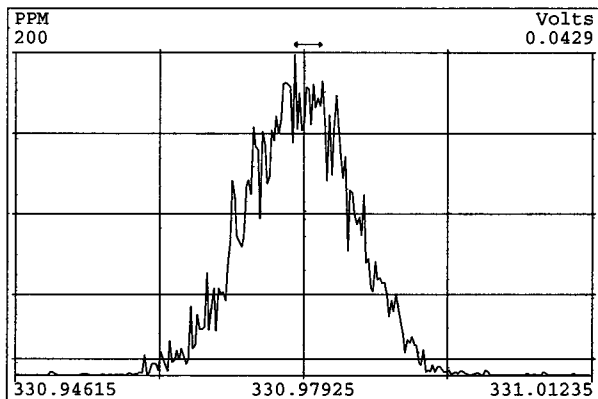
Analyst: MC
MS Method: DF_CL4-8GC Column: db-5
GC Method: DB5MS_60M

Data file	S#	Vial#	Lab ID	Sample ID (Chrom. Text)	Wt/Vol	ES	Check	Acq date	Acq time
081225P1	1	16	SIL7-26-3	SIL7-26-3 NEW ICAL CS0	1.0000	100		25-DEC-08	10:12:17
081225P1	2	17	SIL7-26-2	SIL7-26-2 NEW ICAL CS1	1.0000	100		25-DEC-08	11:02:27
081225P1	3	18	SIL7-26-1	SIL7-26-1 NEW ICAL CS2	1.0000	100		25-DEC-08	11:52:35
081225P1	4	19	SIL7-25-4	SIL7-25-4 NEW ICAL CS3	1.0000	100		25-DEC-08	12:42:45
081225P1	5	20	SIL7-25-3	SIL7-25-3 NEW ICAL CS4	1.0000	100		25-DEC-08	13:32:54
081225P1	6	21	SIL7-25-2	SIL7-25-2 NEW ICAL CS5	1.0000	100		25-DEC-08	14:23:03
081225P1	7	22	SIL7-25-1	SIL7-25-1 NEW STDS CS6	1.0000	100		25-DEC-08	15:13:12

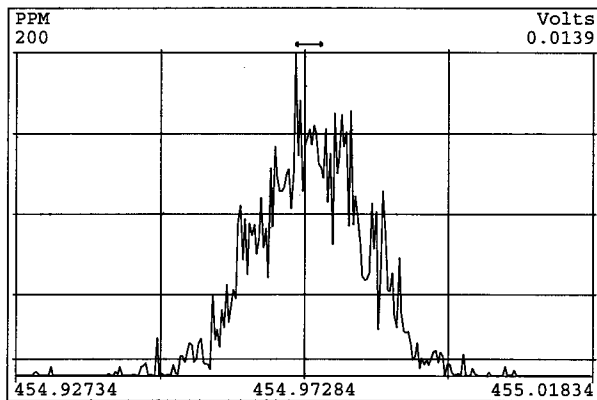
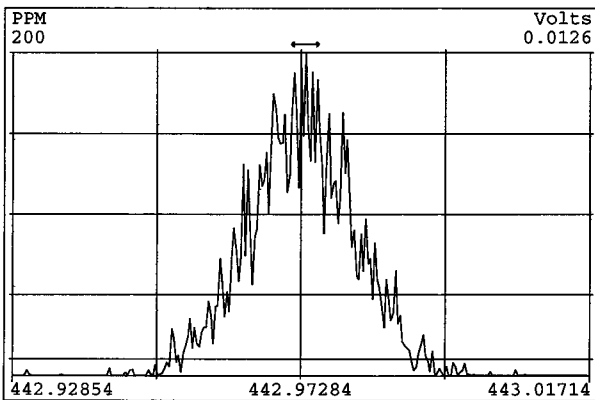
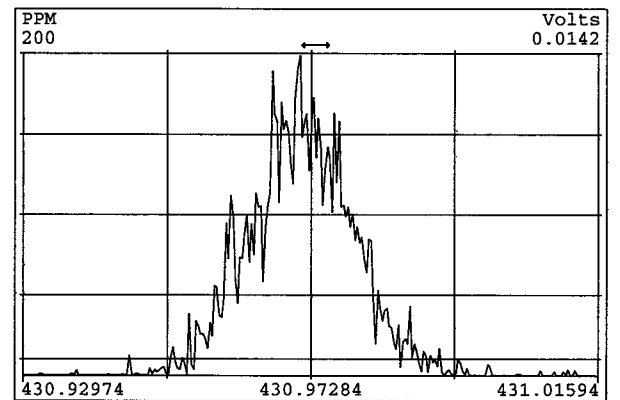
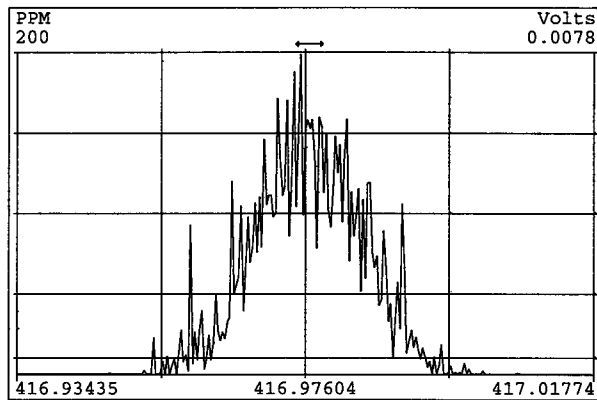
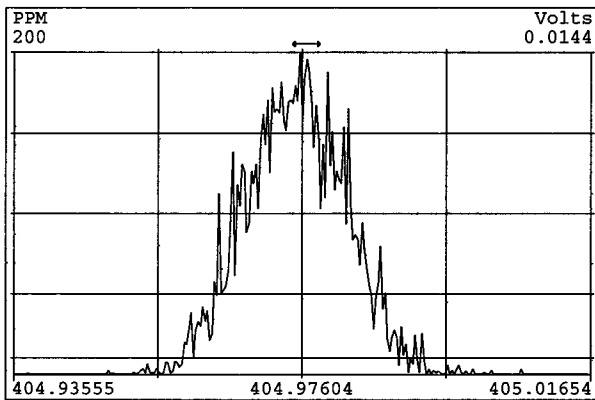
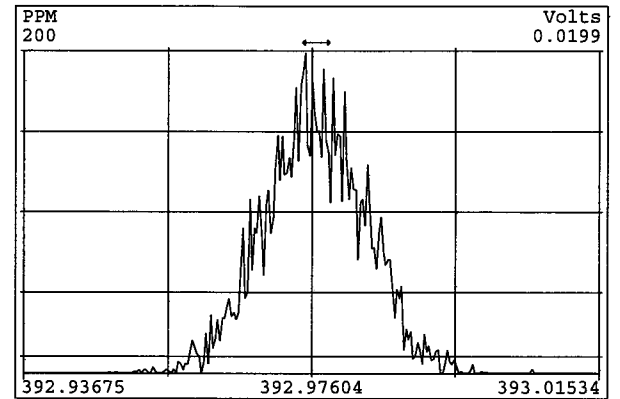
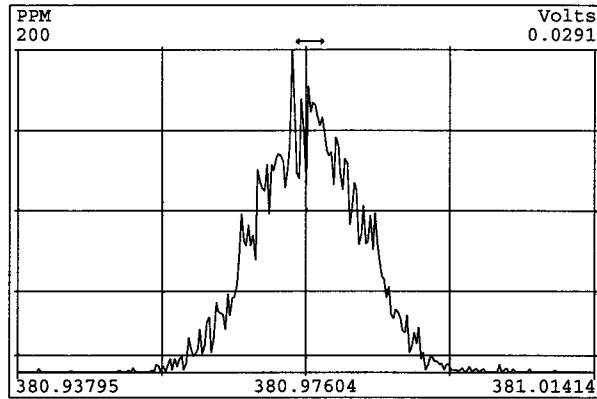
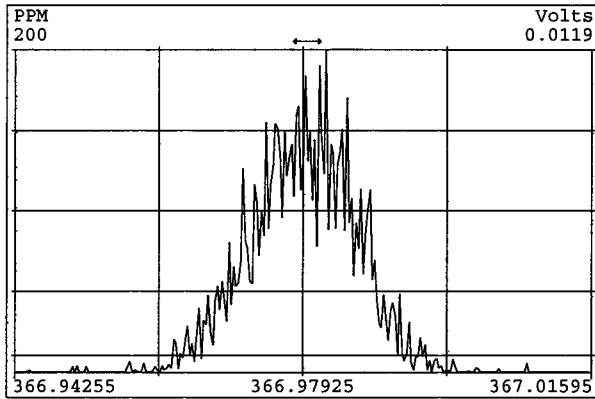
Peak Locate Examination:25-DEC-2008:10:10 File:081225P1
Experiment:DF_CL4-8 Function:1 Reference:PFK2



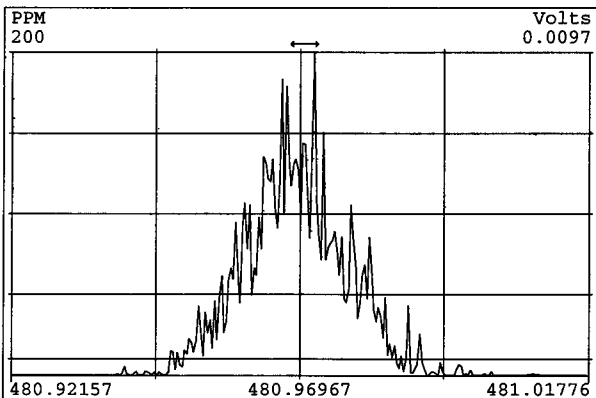
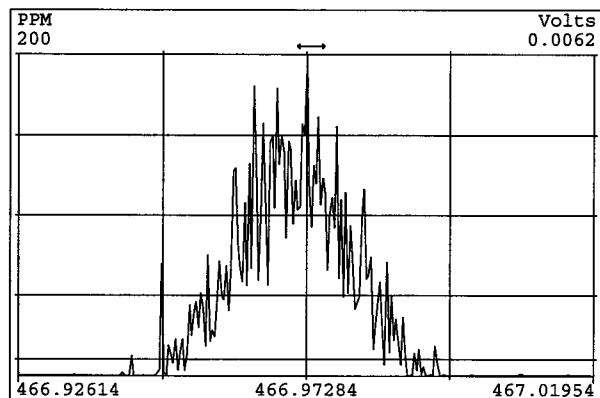
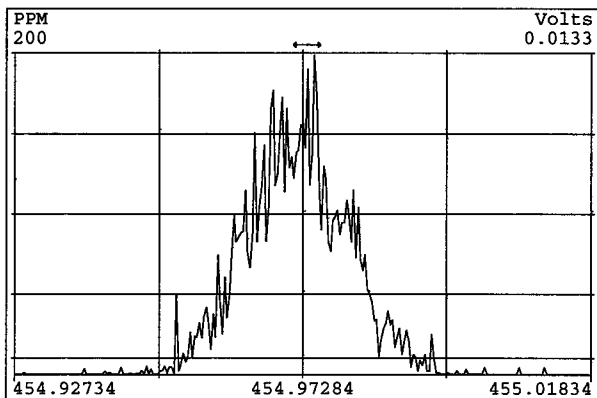
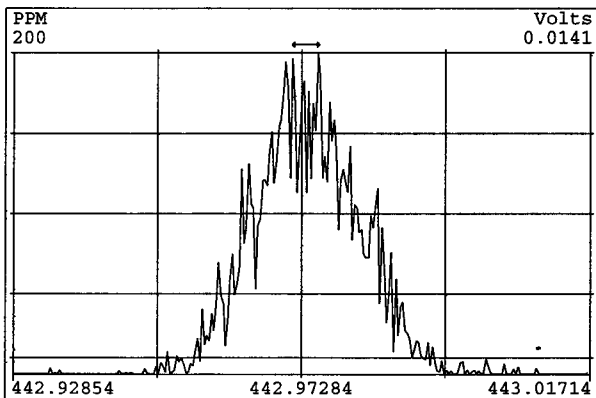
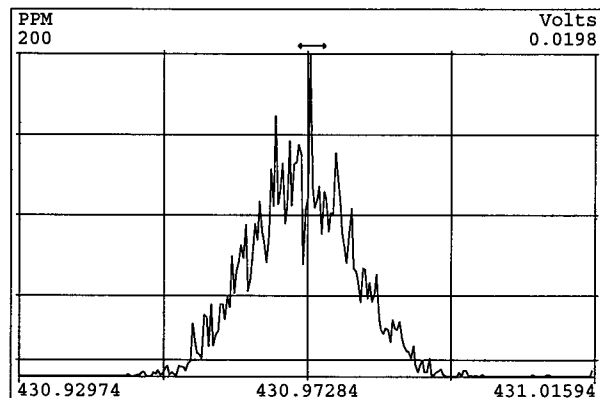
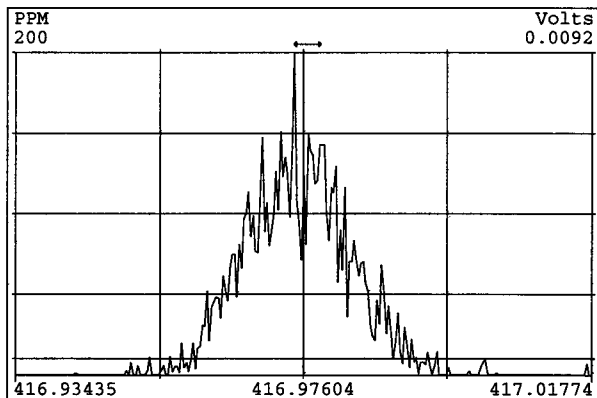
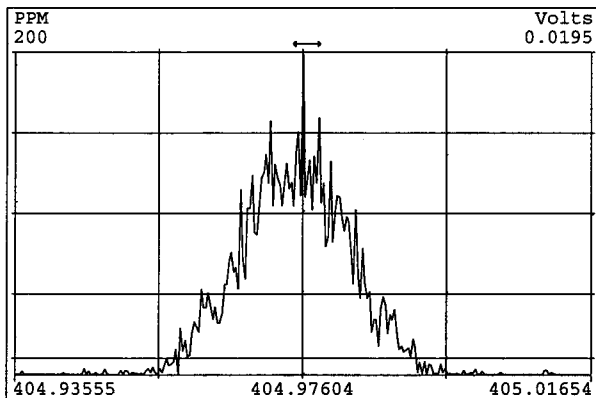
Peak Locate Examination:25-DEC-2008:10:10 File:081225P1
Experiment:DF_CL4-8 Function:2 Reference:PFK2



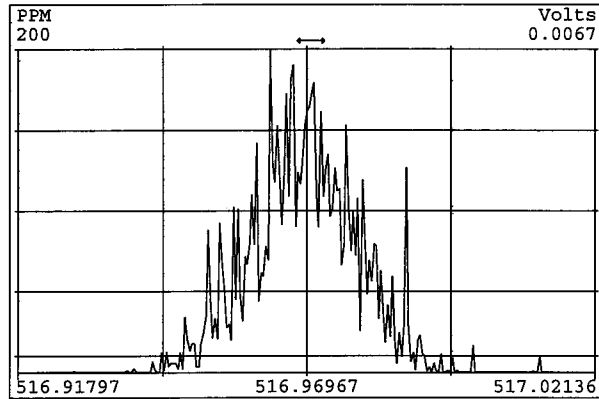
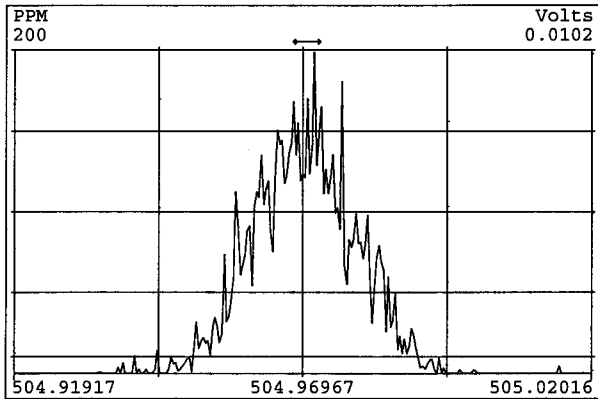
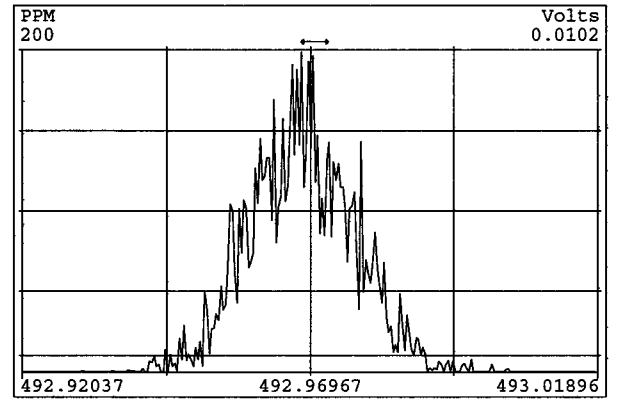
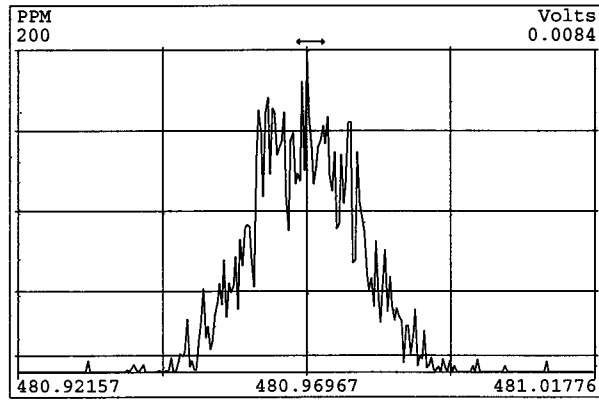
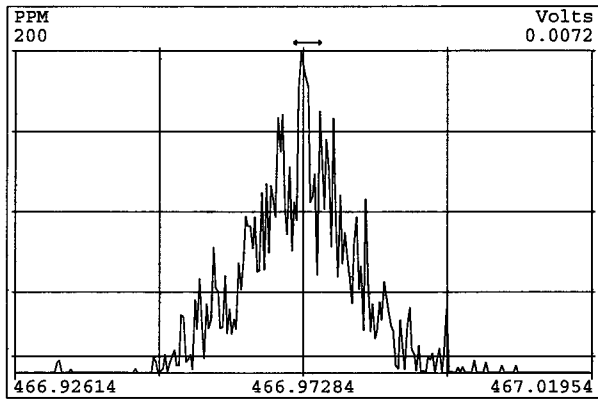
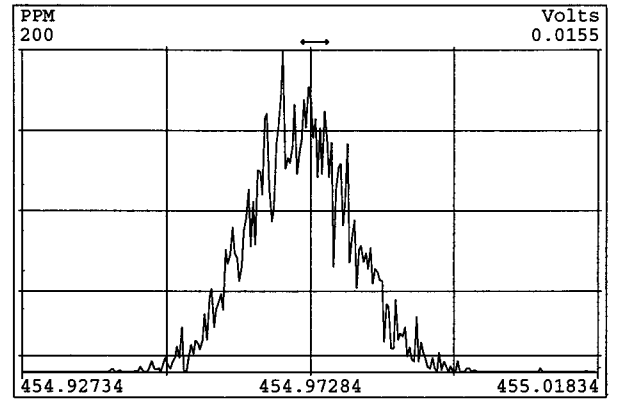
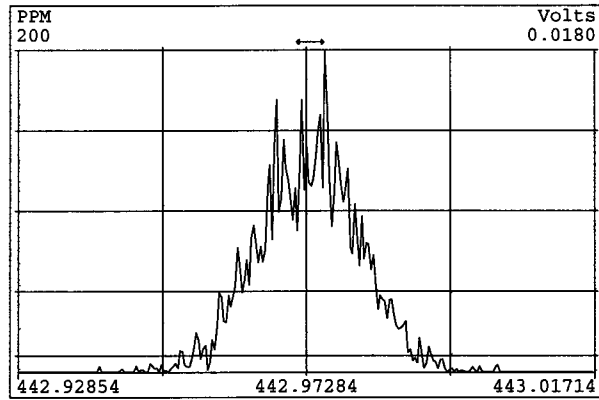
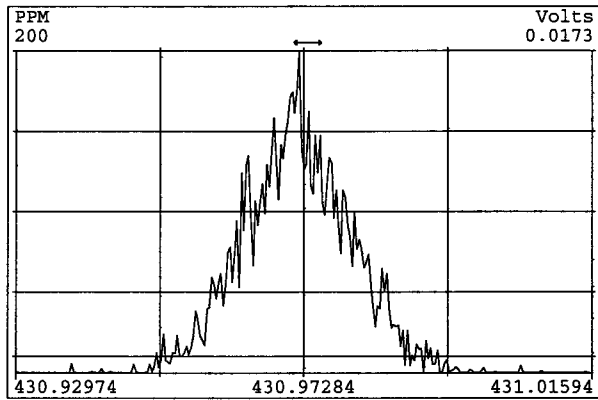
Peak Locate Examination:25-DEC-2008:10:11 File:081225P1
Experiment:DF_CL4-8 Function:3 Reference:PFK2



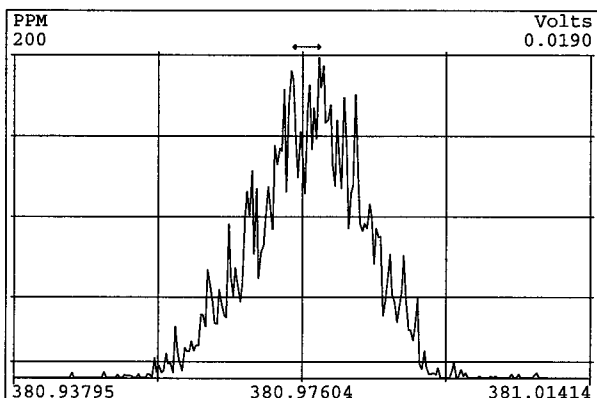
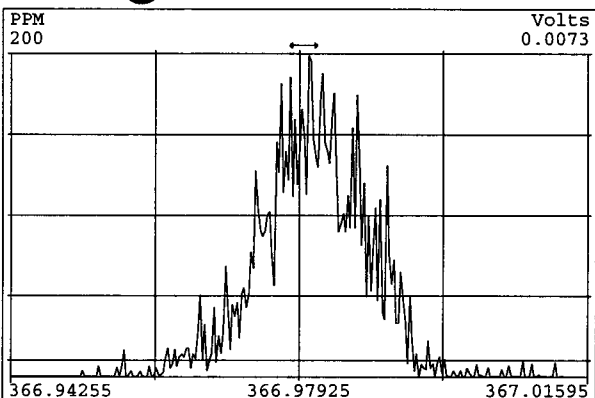
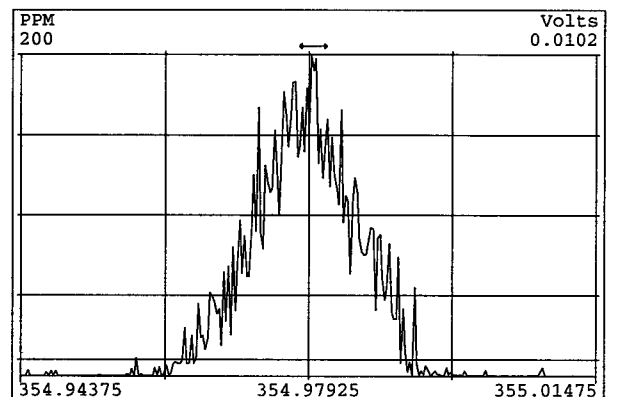
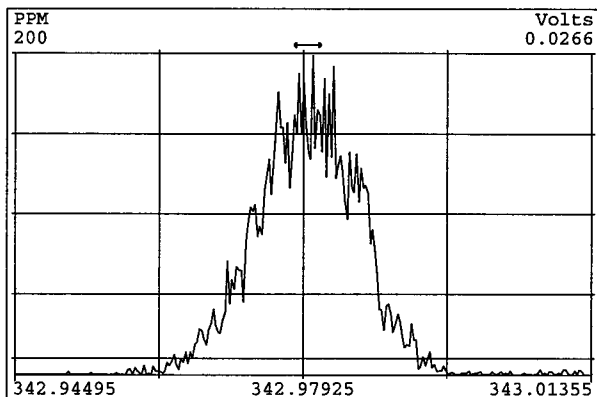
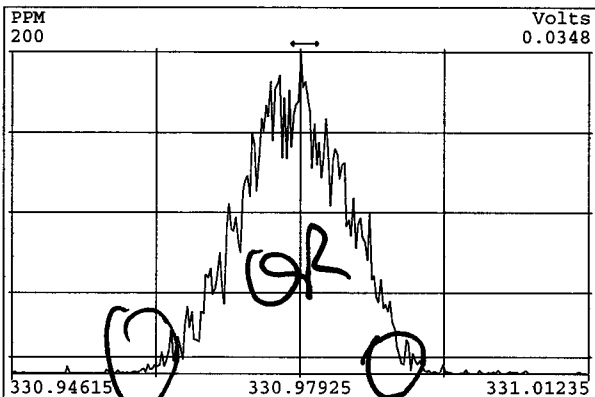
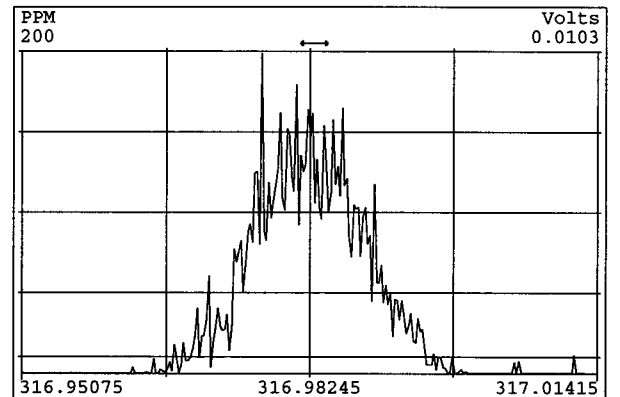
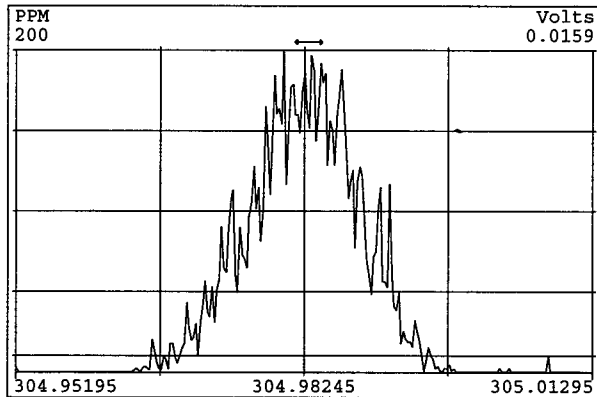
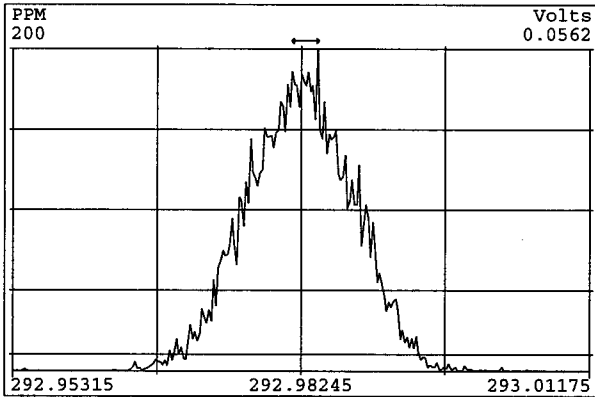
Peak Locate Examination:25-DEC-2008:10:11 File:081225P1
Experiment:DF_CL4-8 Function:4 Reference:PFK2



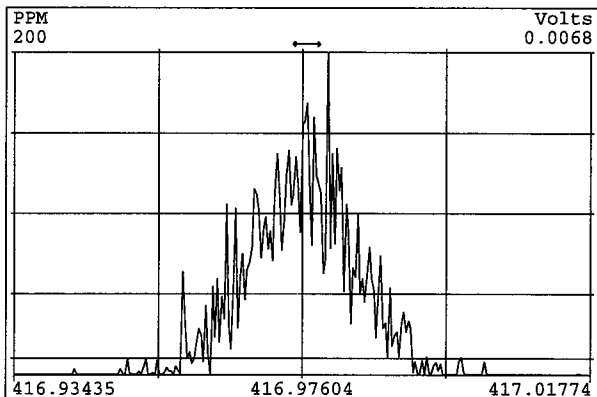
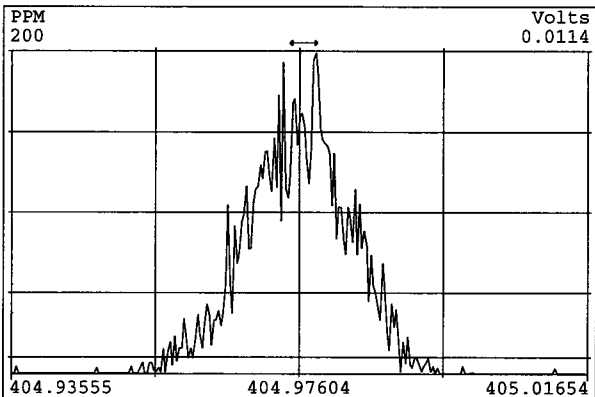
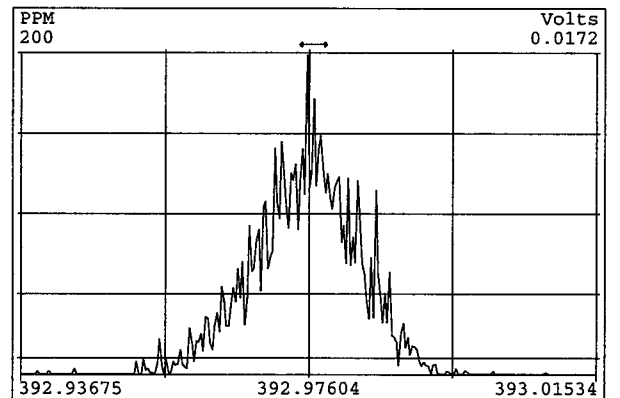
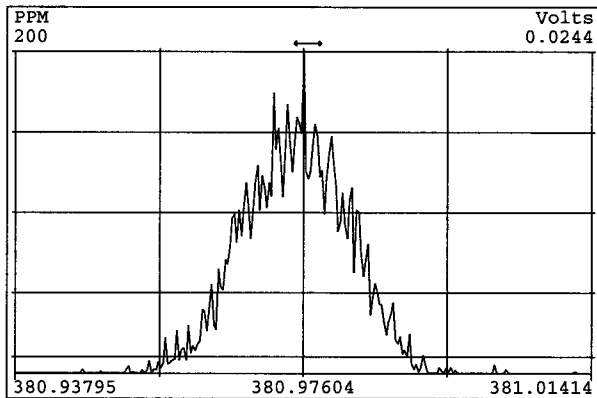
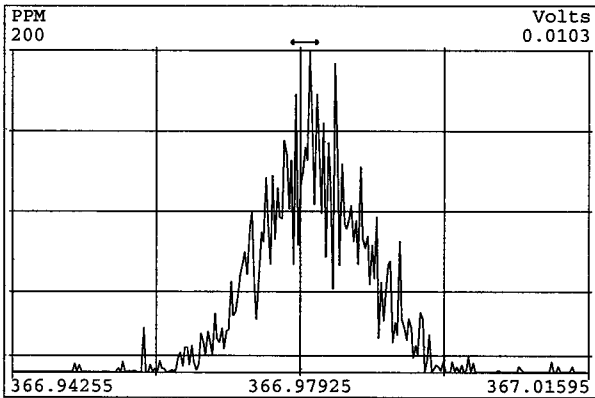
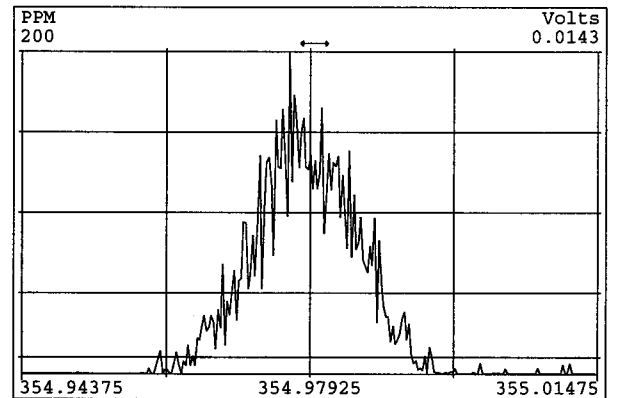
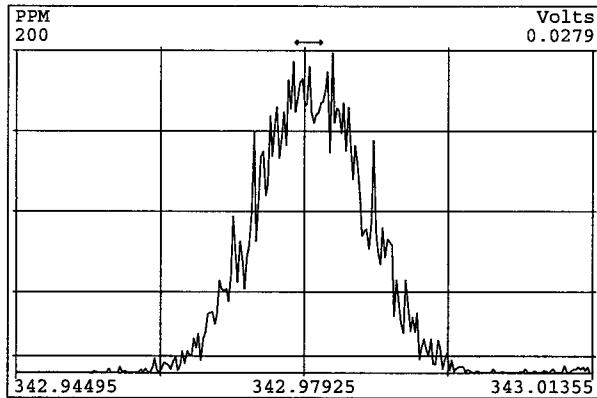
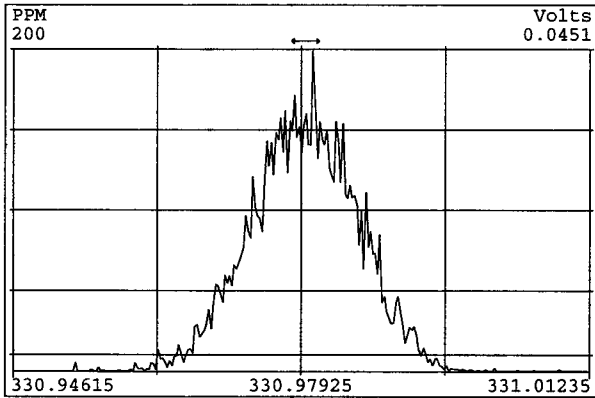
Peak Locate Examination:25-DEC-2008:10:11 File:081225P1
Experiment:DF_CL4-8 Function:5 Reference:PFK2



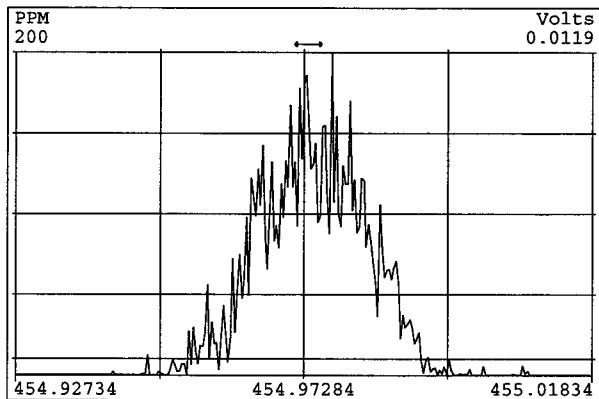
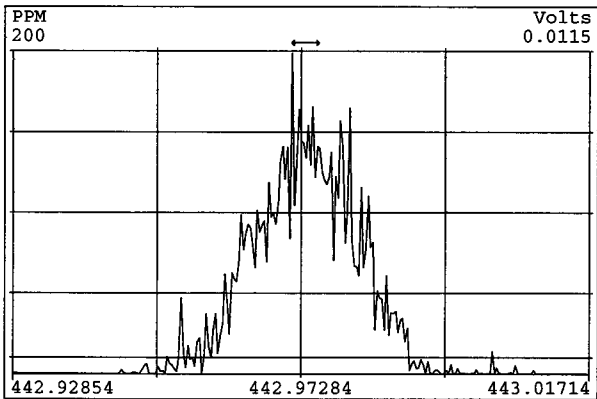
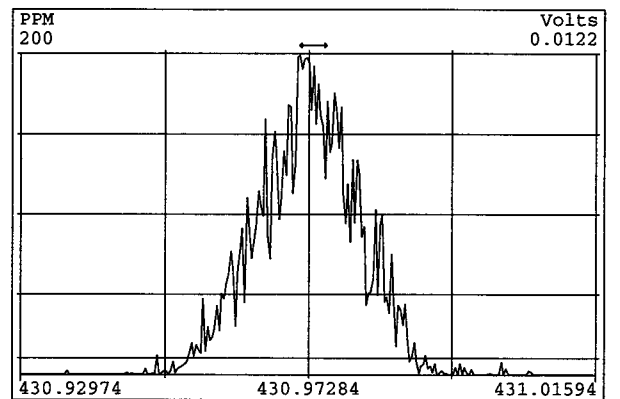
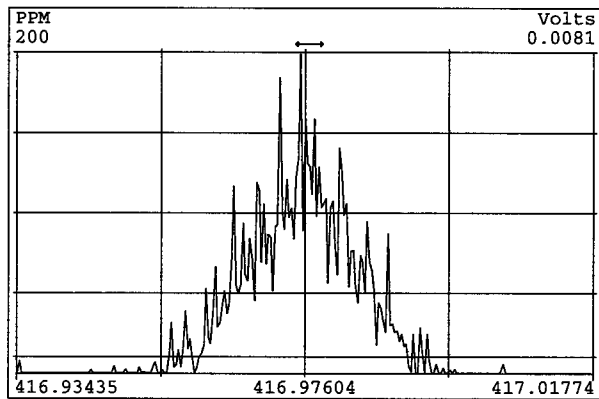
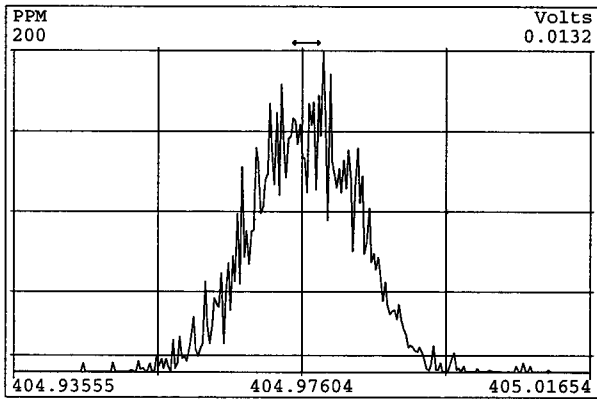
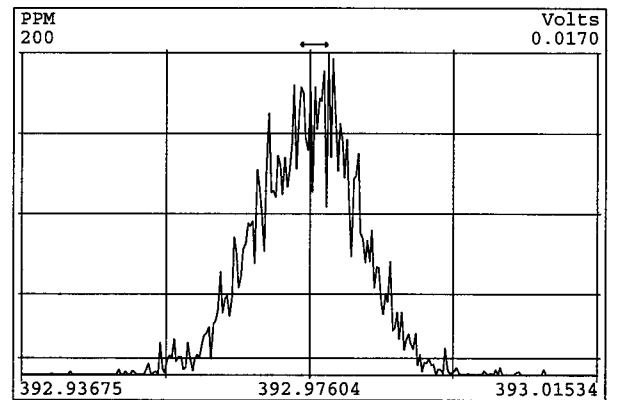
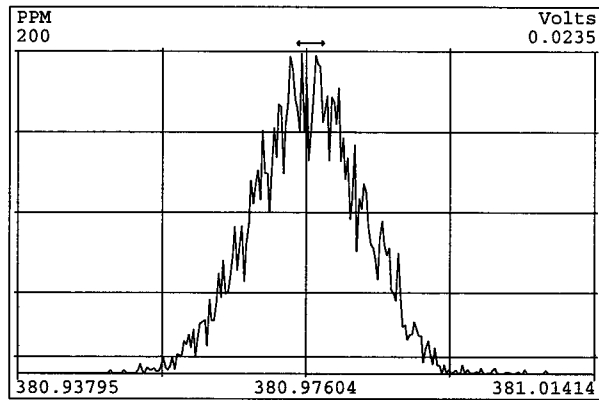
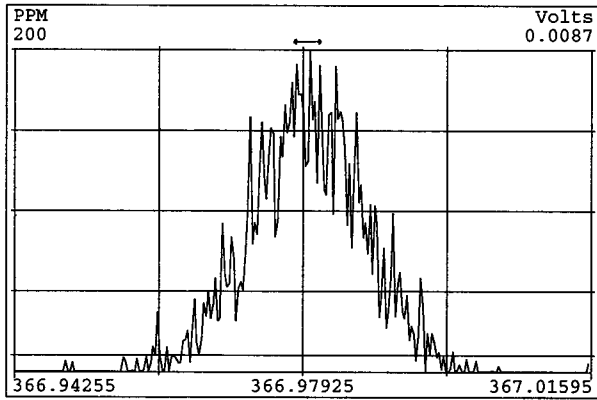
Peak Locate Examination:25-DEC-2008:16:06 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:1 Reference:PFK2



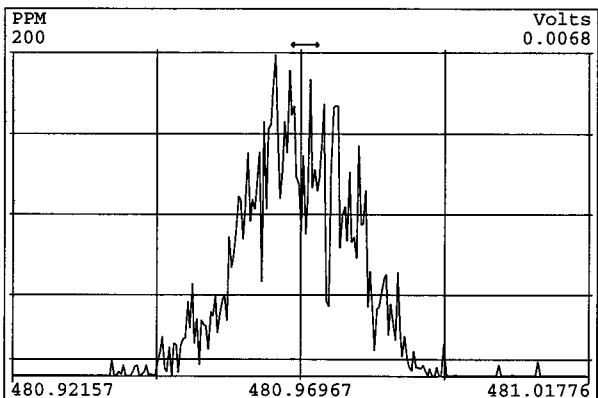
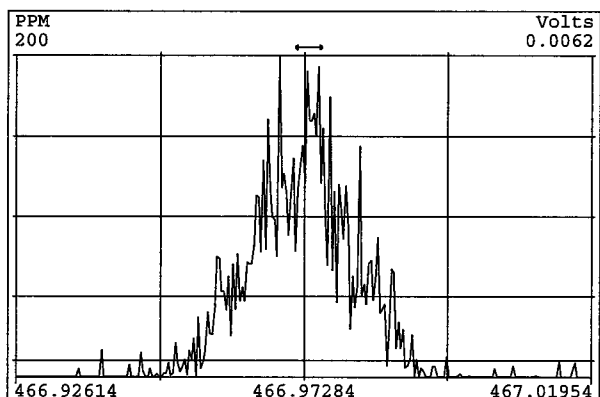
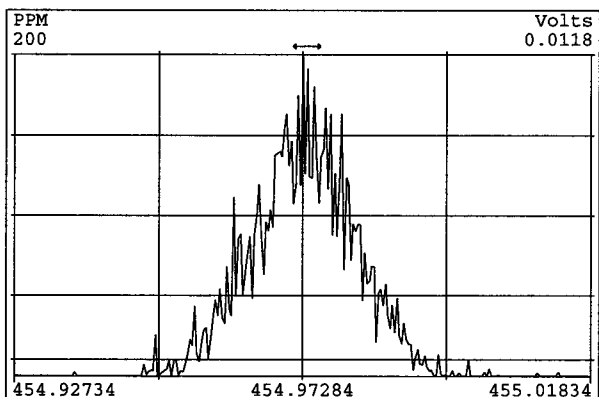
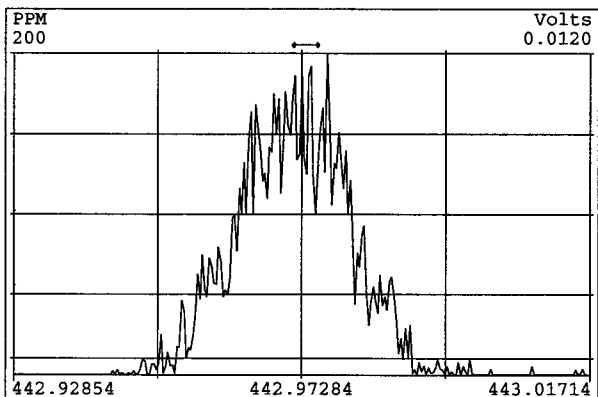
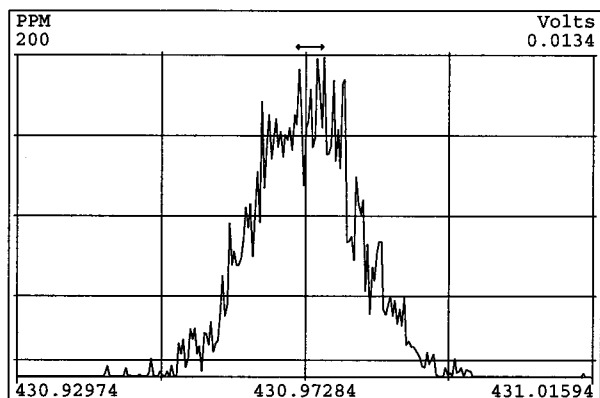
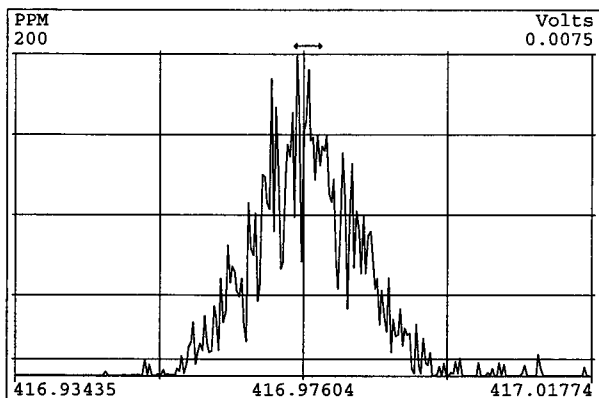
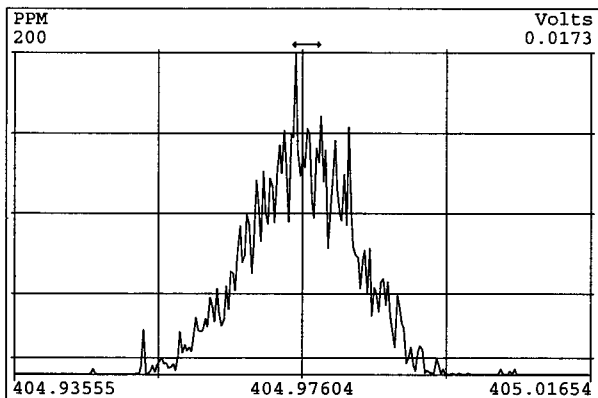
Peak Locate Examination:25-DEC-2008:16:07 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:2 Reference:PFK2



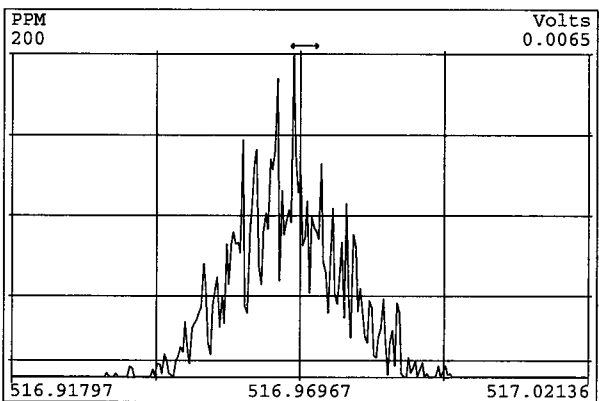
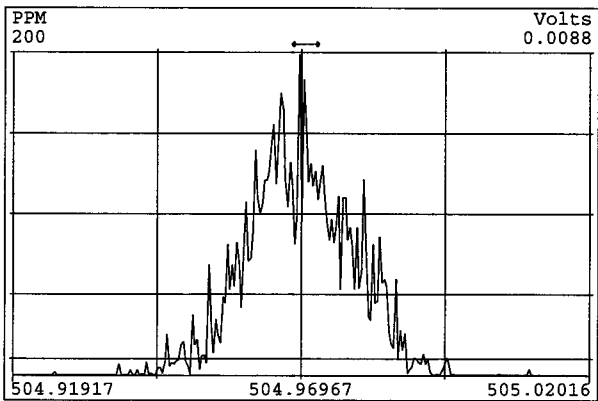
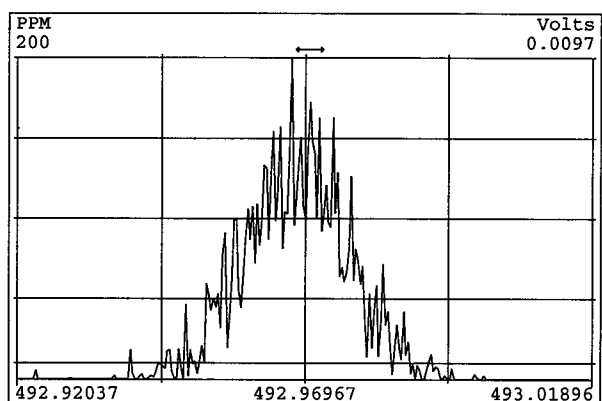
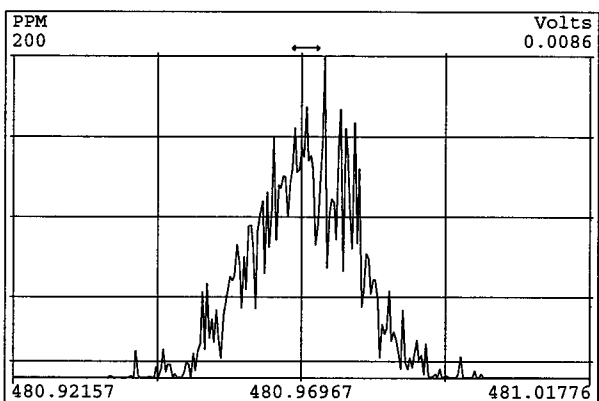
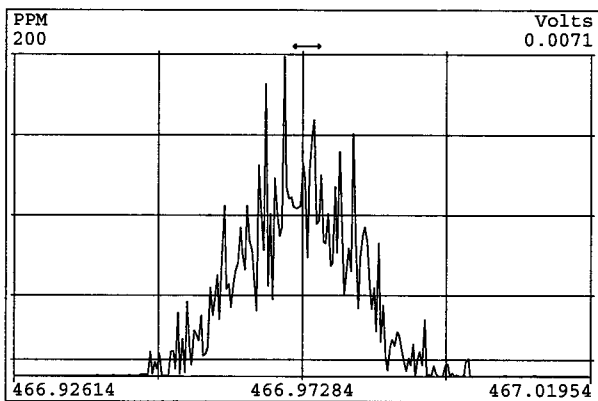
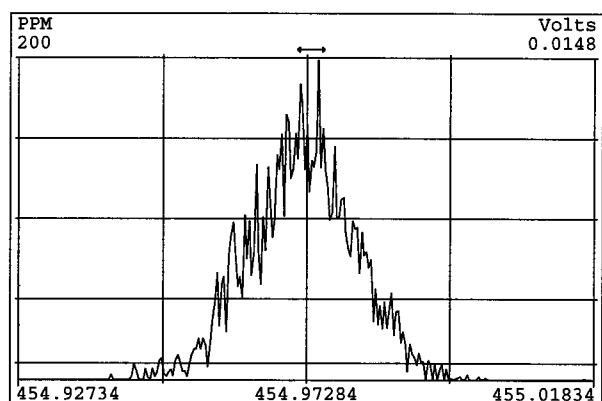
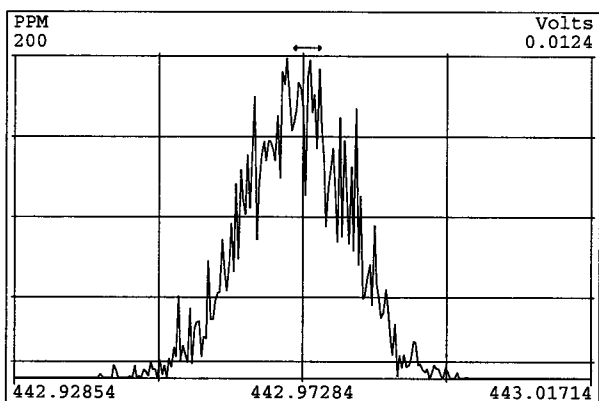
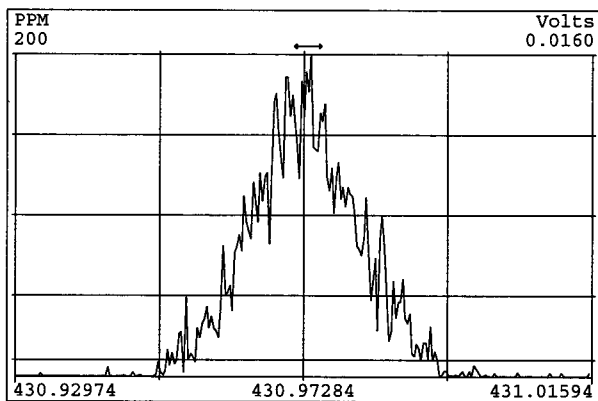
Peak Locate Examination:25-DEC-2008:16:08 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:3 Reference:PFK2



Peak Locate Examination:25-DEC-2008:16:09 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:4 Reference:PFK2



Peak Locate Examination:25-DEC-2008:16:10 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:5 Reference:PFK2



TM 30 Dec 08


Calibration Summary Analytical Perspectives [Form: CAL]

Client ID: NEW ICAL CS0
 Lab ID: SIL7-26-3
 Sample text: SIL7-26-3 NEW ICAL CS0

Filename: 081225P1 S: 1 Acq: 25-DEC-08 10:12:17
 GC Column ID: db-5 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 16

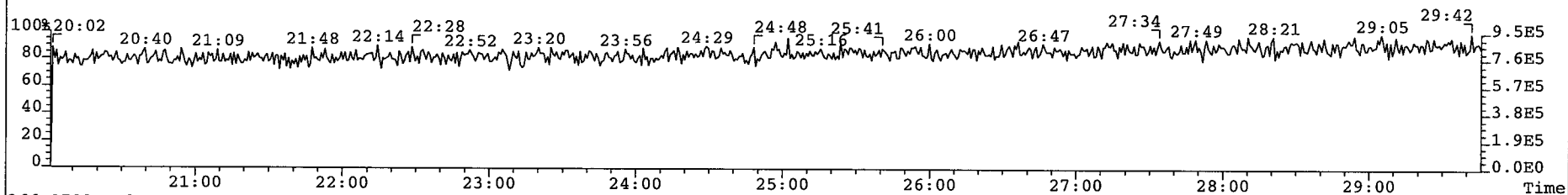
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	0.25	1.01e+05	0.70 y	27:06	-	1.08
2	Ax 1,2,3,7,8-PeCDD	1.25	3.69e+05	1.50 y	32:41	-	0.99
3	Ax 1,2,3,4,7,8-HxCDD	1.25	2.90e+05	1.28 y	36:38	-	1.01
4	Ax 1,2,3,6,7,8-HxCDD	1.25	3.01e+05	1.24 y	36:45	-	0.92
5	Ax 1,2,3,7,8,9-HxCDD	1.25	3.08e+05	1.06 y	37:03	-	0.96
6	Ax 1,2,3,4,6,7,8-HpCDD	1.25	2.45e+05	1.14 y	40:15	-	0.93
7	Ax OCDD	2.50	3.39e+05	0.93 y	43:49	-	1.02
8	Ax2 OCDD-a	2.50	*	* n	NotF>>	-	*
9	Ax 2,3,7,8-TCDF	0.25	1.47e+05	0.75 y	26:10	-	1.03
10	Ax 1,2,3,7,8-PeCDF	1.25	5.70e+05	1.66 y	31:11	-	0.95
11	Ax 2,3,4,7,8-PeCDF	1.25	6.13e+05	1.59 y	32:19	-	0.99
12	Ax 1,2,3,4,7,8-HxCDF	1.25	4.71e+05	1.34 y	35:39	-	1.19
13	Ax 1,2,3,6,7,8-HxCDF	1.25	5.08e+05	1.25 y	35:48	-	1.07
14	Ax 2,3,4,6,7,8-HxCDF	1.25	4.61e+05	1.14 y	36:27	-	1.08
15	Ax 1,2,3,7,8,9-HxCDF	1.25	3.85e+05	1.21 y	37:25	-	1.04
16	Ax 1,2,3,4,6,7,8-HpCDF	1.25	3.86e+05	1.10 y	39:05	-	1.27
17	Ax 1,2,3,4,7,8,9-HpCDF	1.25	2.90e+05	1.11 y	40:49	-	1.22
18	Ax OCDF	2.50	4.83e+05	0.90 y	44:03	-	0.96
19	Ax2 OCDF-a	2.50	*	* n	NotF>>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.76e+07	0.81 y	27:04	-	0.98
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.99e+07	1.66 y	32:40	-	0.78
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.28 y	36:37	-	1.01
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.60e+07	1.27 y	36:44	-	1.15
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.57e+07	1.27 y	37:02	-	1.14
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.11e+07	1.05 y	40:14	-	0.93
26	ES 13C-OCDD	200.00	2.67e+07	0.87 y	43:49	-	0.59
27	ES 13C-2,3,7,8-TCDF	100.00	5.72e+07	0.80 y	26:08	-	0.94
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.79e+07	1.54 y	31:10	-	0.79
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.94e+07	1.58 y	32:18	-	0.81
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.16e+07	0.53 y	35:38	-	1.40
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.79e+07	0.54 y	35:47	-	1.68
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.42e+07	0.53 y	36:26	-	1.52
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.95e+07	0.53 y	37:25	-	1.31
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.44e+07	0.46 y	39:04	-	1.08
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.90e+07	0.45 y	40:49	-	0.84
36	ES 13C-OCDF	200.00	4.04e+07	0.90 y	44:03	-	0.90
37	CS 37Cl-2,3,7,8-TCDD	0.25	*		NotF>>	-	*
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.88e+07	1.65 y	32:09	-	0.75
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.70e+07	1.59 y	30:38	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.17e+07	0.52 y	36:06	-	1.40
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.06e+07	0.44 y	39:34	-	0.91
42	NA n/a	100.00	*	* n	NotF>>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.85e+07	0.83 y	26:24	3.85e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	6.08e+07	0.78 y	24:43	6.08e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.26 y	36:56	2.26e+05	-

0.25 pg/ml

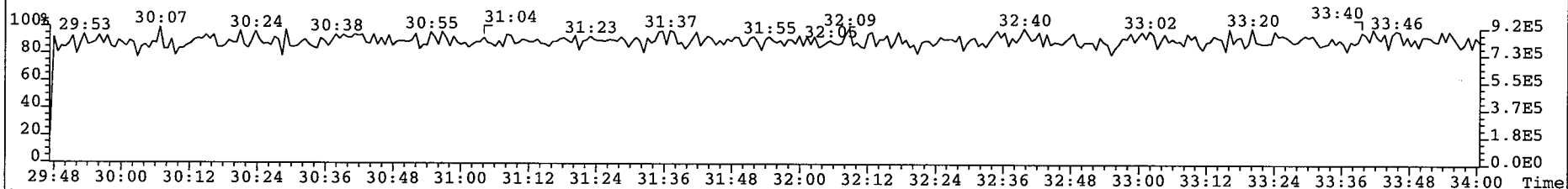
Analyst: 
 Date: 25 Dec 08

46	SS	37C1-2,3,7,8-TCDD	0.25	*		NotF>>	-	*
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.88e+07	1.65 y	32:09	-	0.96
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.70e+07	1.59 y	30:38	-	0.98
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.17e+07	0.52 y	36:06	-	0.83
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.06e+07	0.44 y	39:34	-	0.85 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.08 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.08
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.08
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.99 ✓
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.99
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.96
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.93
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.10
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.08 ✓
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.99
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.96
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.93 ✓
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.10
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.25 ✓
73	Tot	TCDD EMPC	-	-	- n	-	-	1.08 ✓
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.99
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.96
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.93 ✓
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.10
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.25 ✓
81	AS	13C-1,3,6,8-TCDD	100.00	4.21e+07	0.82 y	23:09	-	1.09 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.69e+07	0.78 y	20:57	-	1.10 ✓
83	DPE	HxCDPE	-	1.87e+04		26:22	-	-
84	DPE	HpCDPE	-	7.50e+03		31:07	-	-
85	DPE	OCDFPE	-	1.72e+04		34:48	-	-
86	DPE	NCDPE	-	6.93e+03		40:03	-	-
87	DPE	DCDFPE	-	*		NotF>>	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-

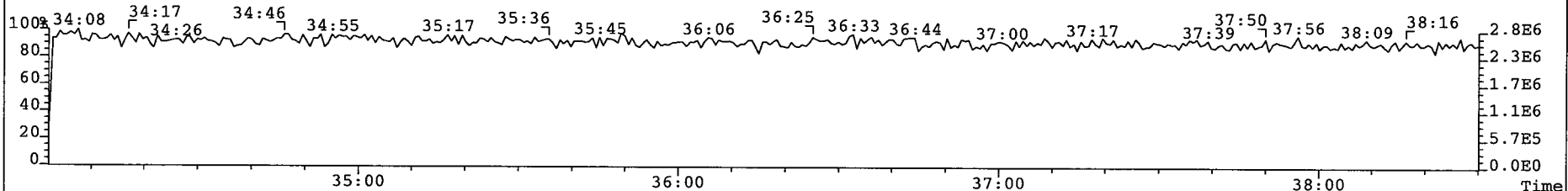
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



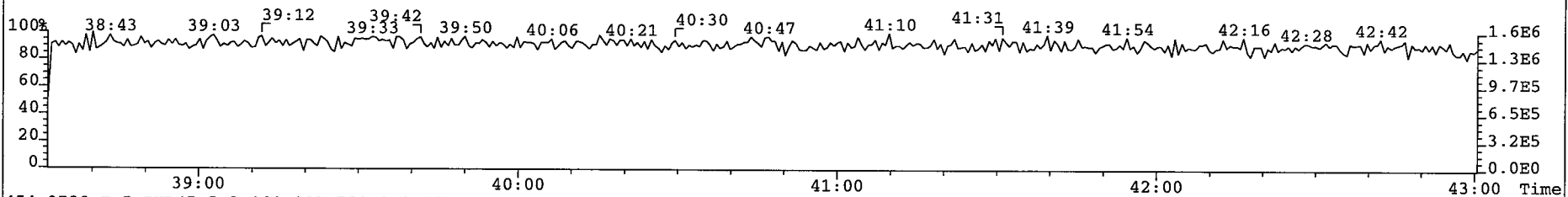
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



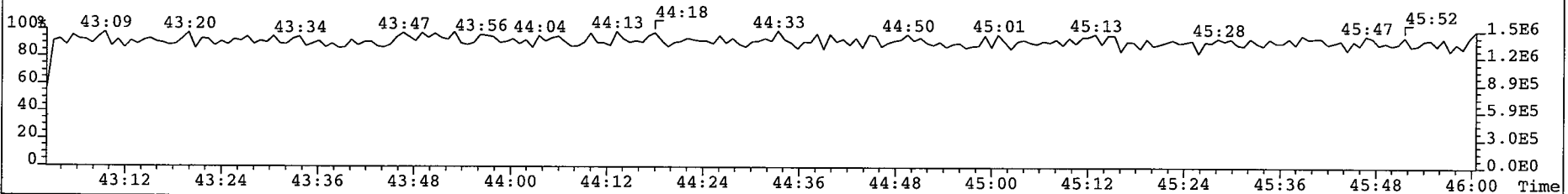
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



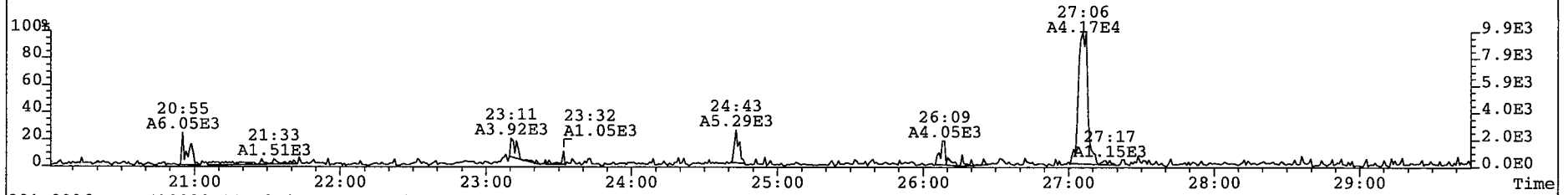
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



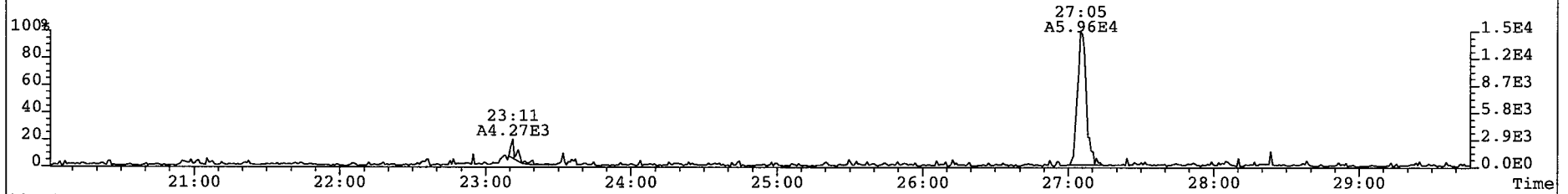
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



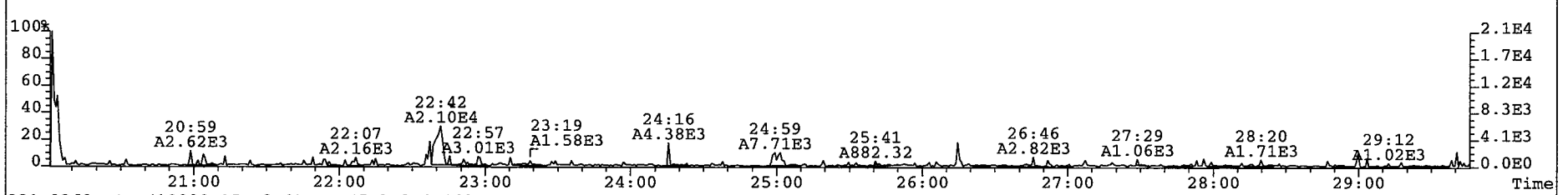
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



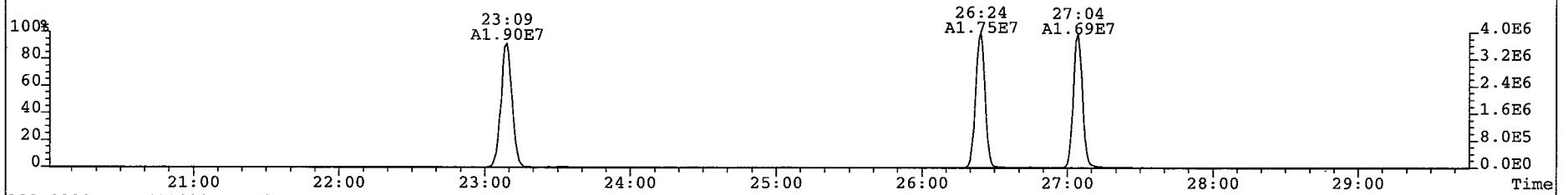
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72



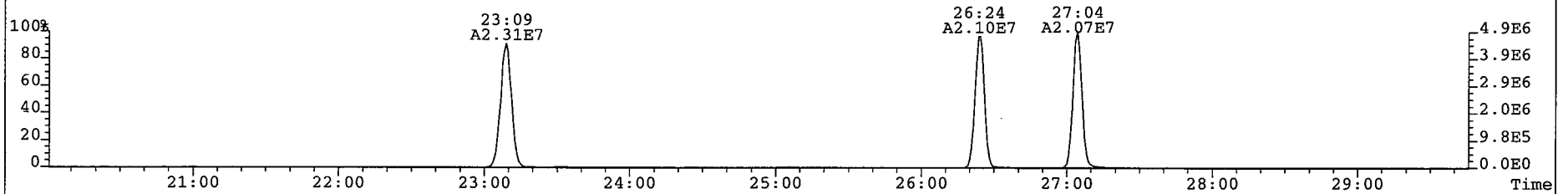
327.8850 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



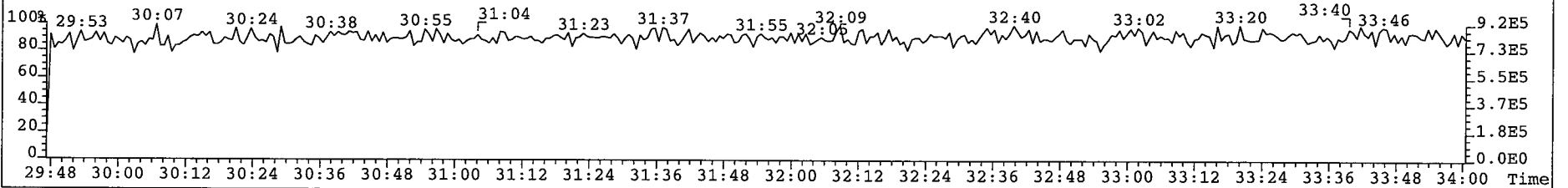
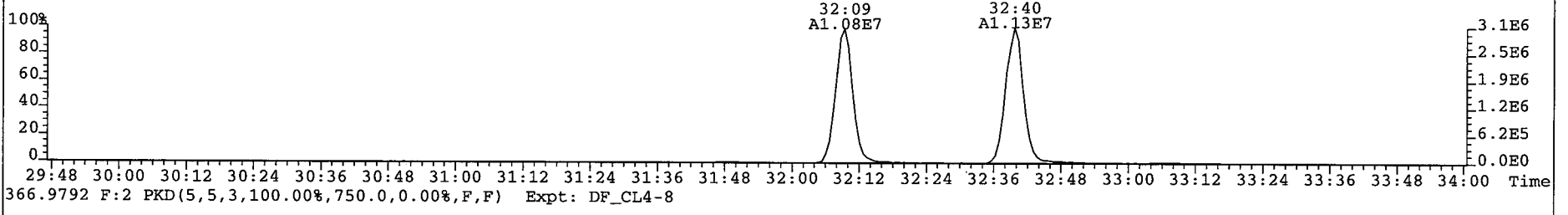
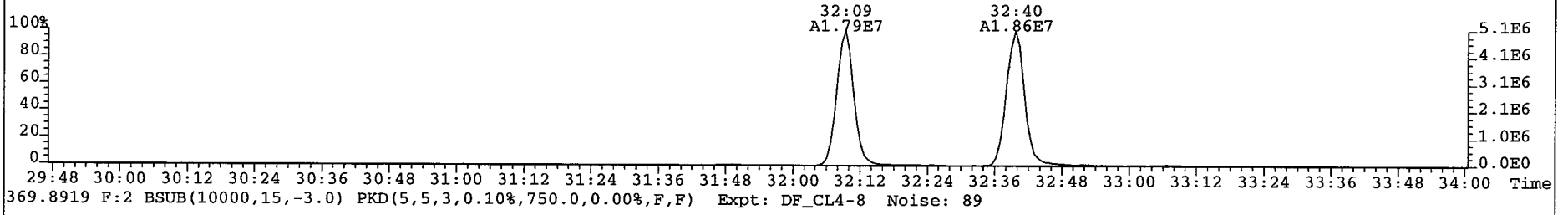
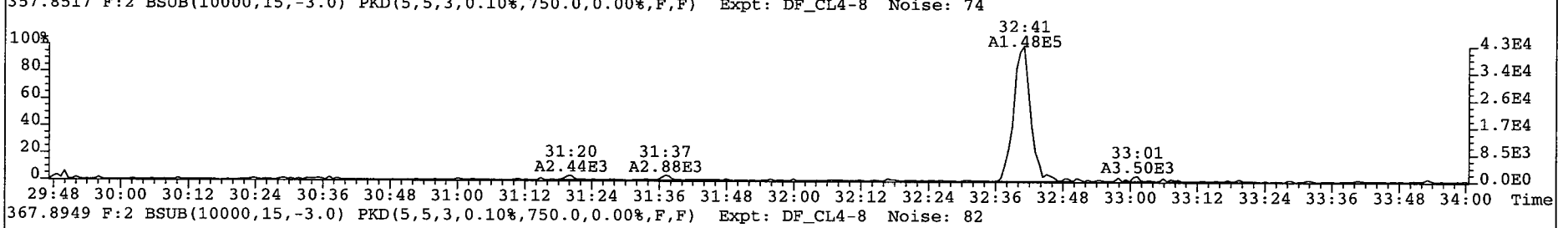
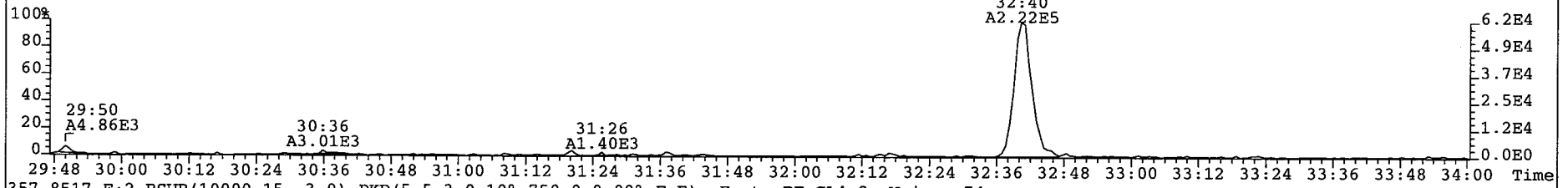
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 105



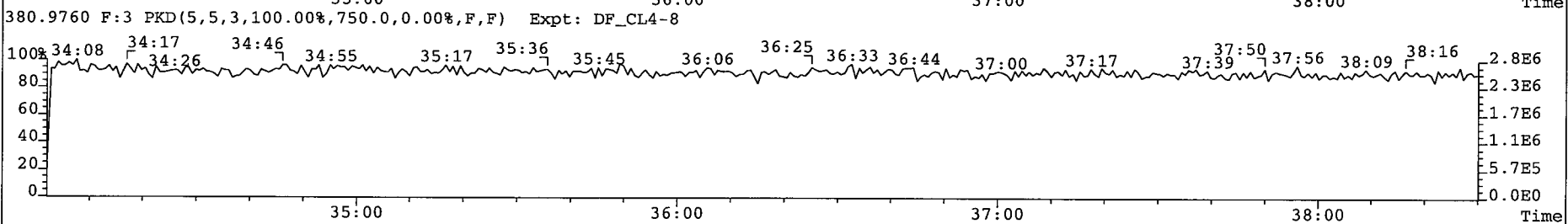
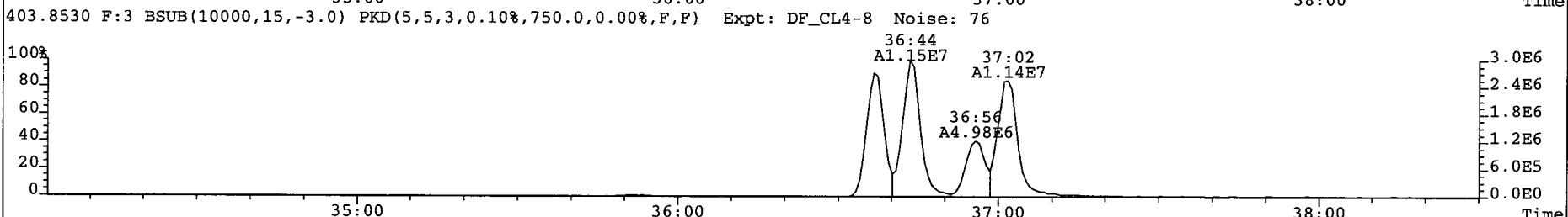
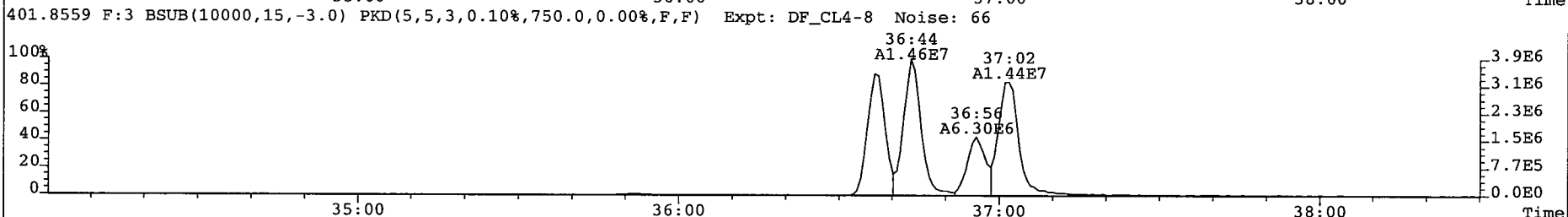
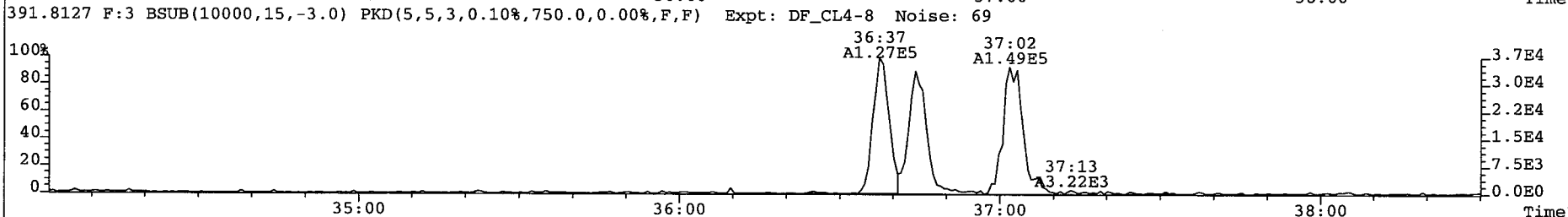
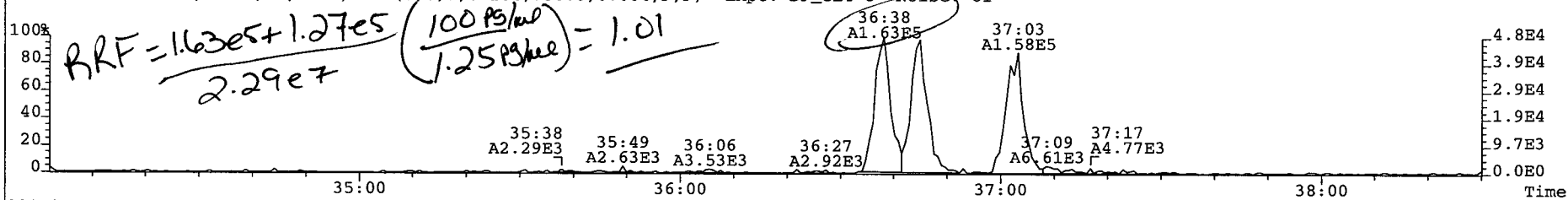
File: 081225PI Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



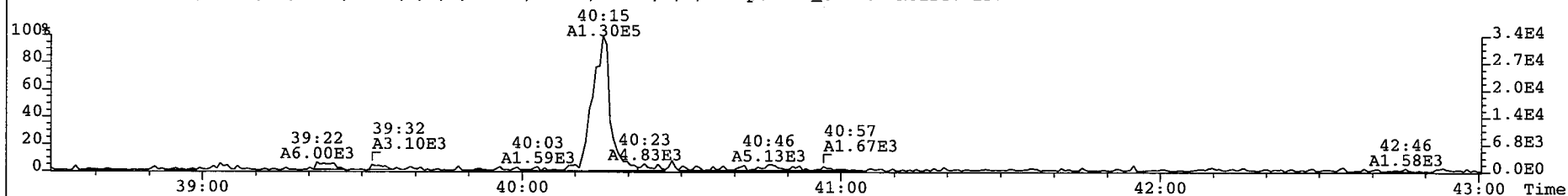
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5

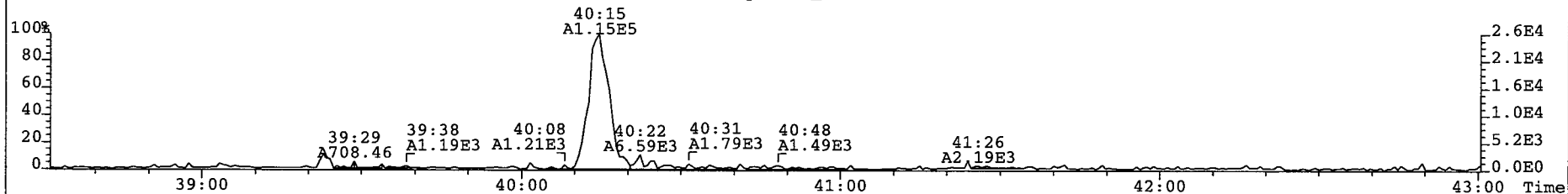
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 81



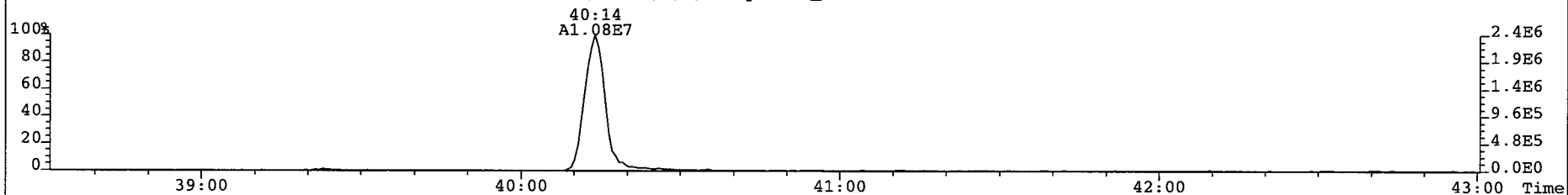
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 137



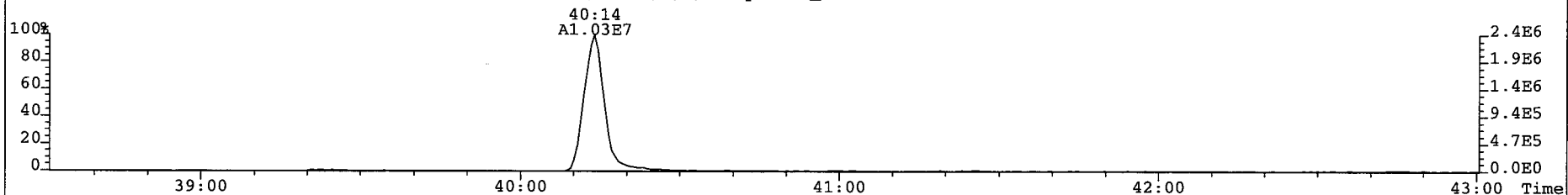
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 112



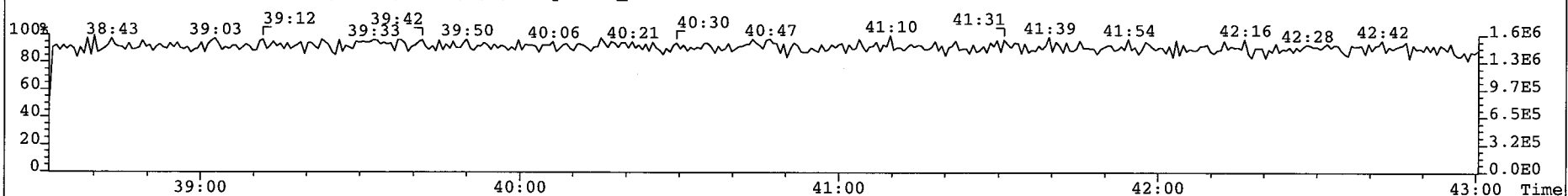
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1083



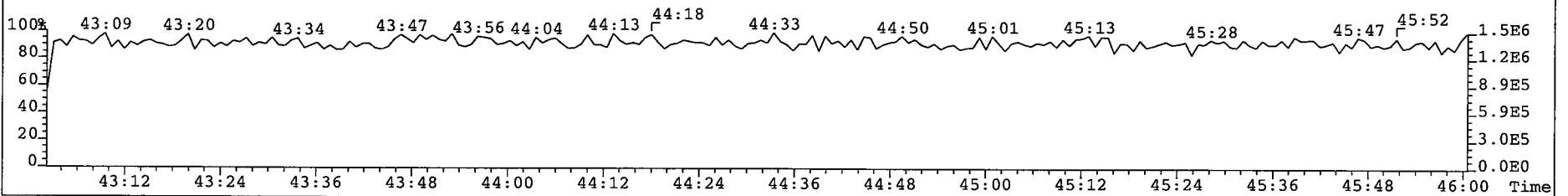
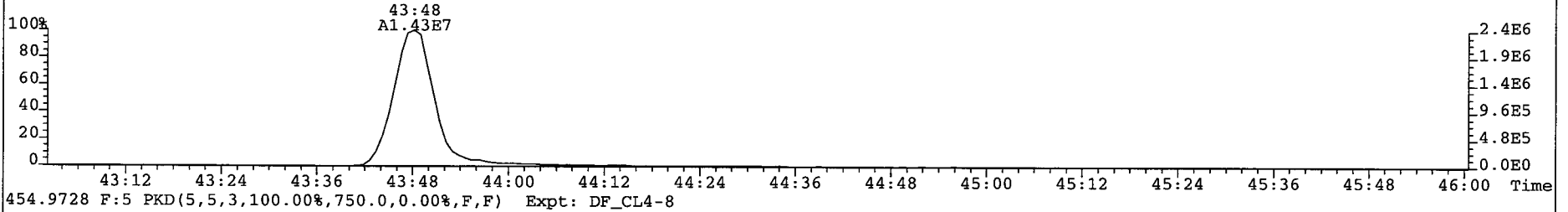
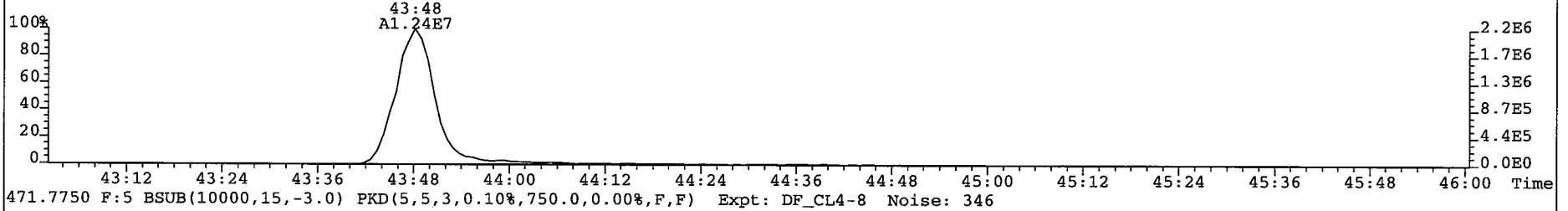
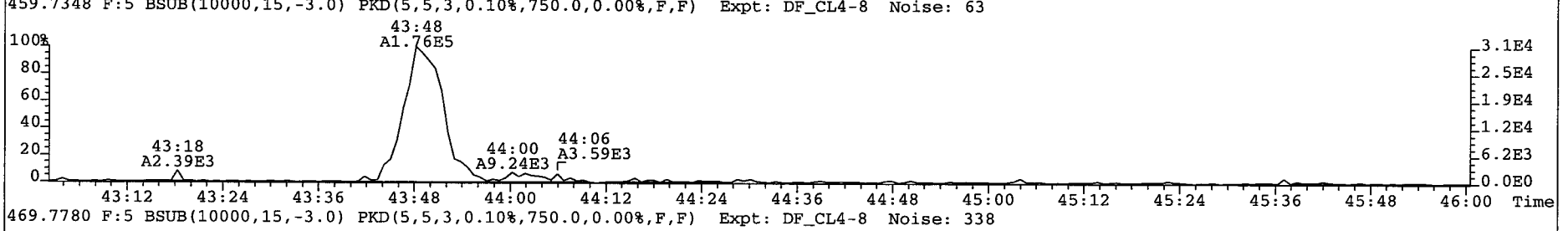
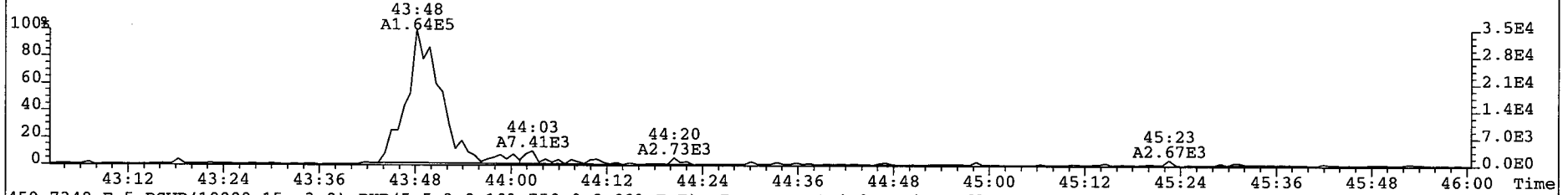
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1154



430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



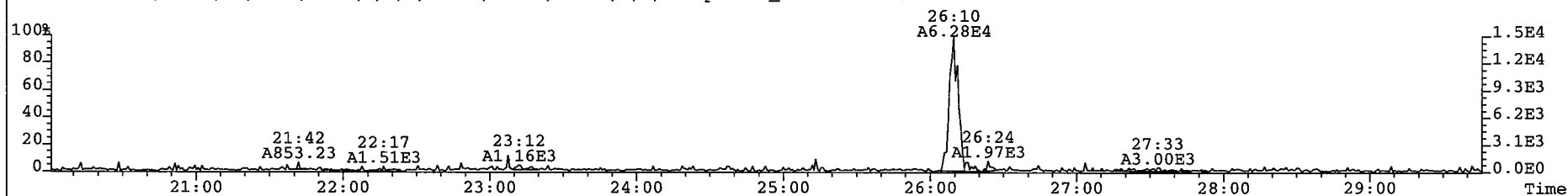
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 75



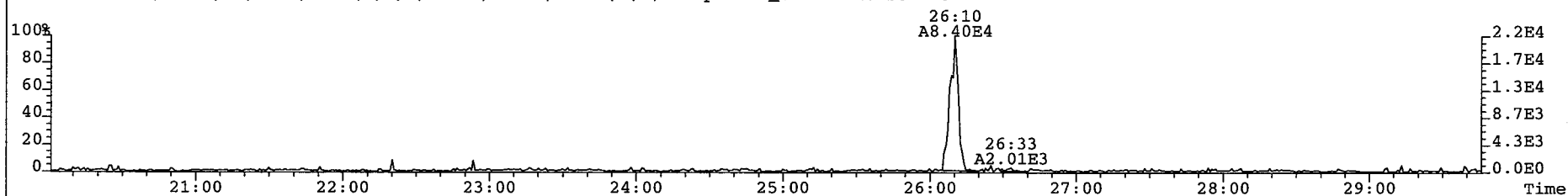
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5

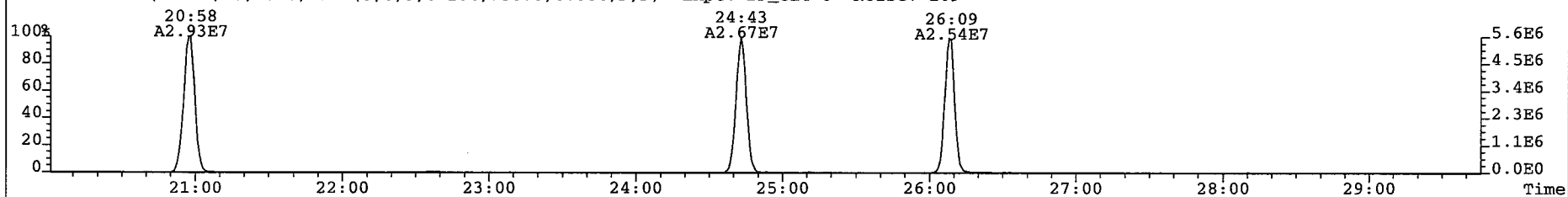
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



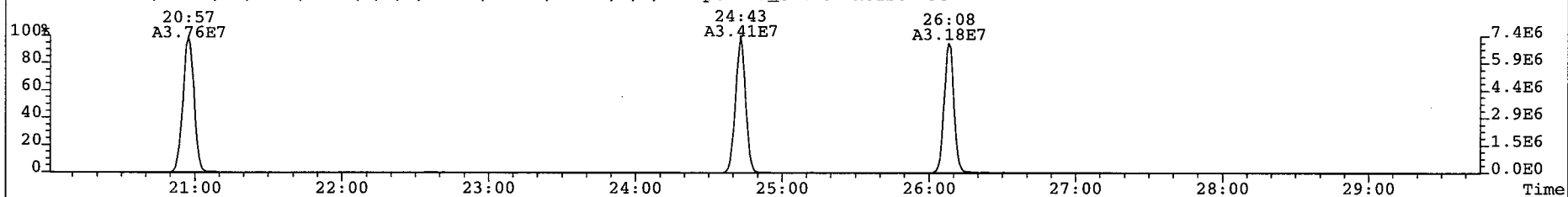
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 75



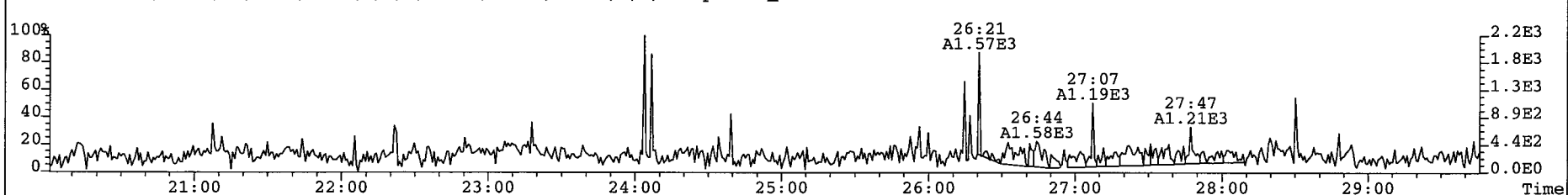
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 109



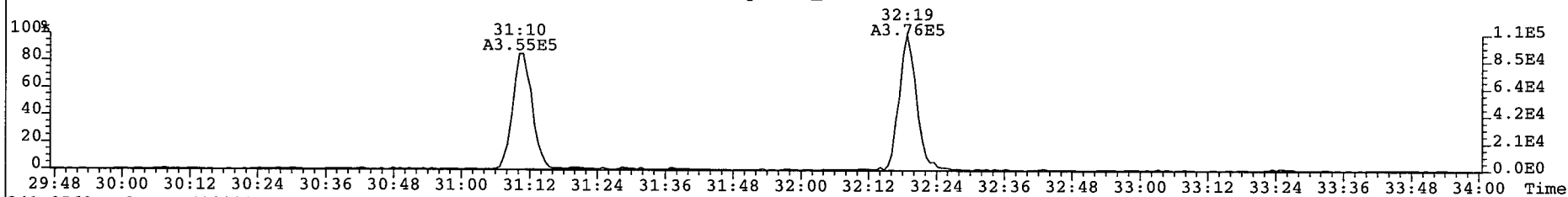
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



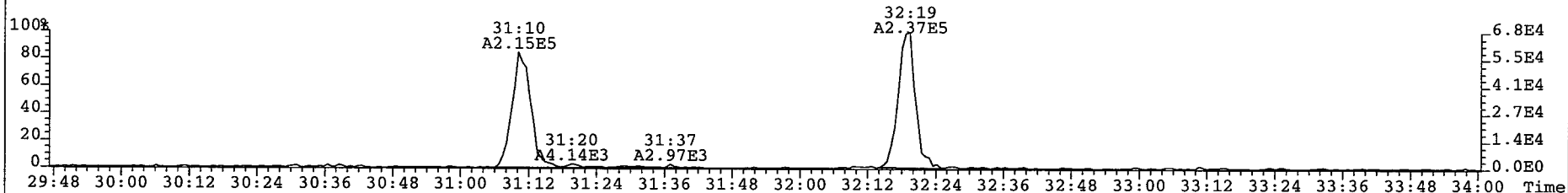
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



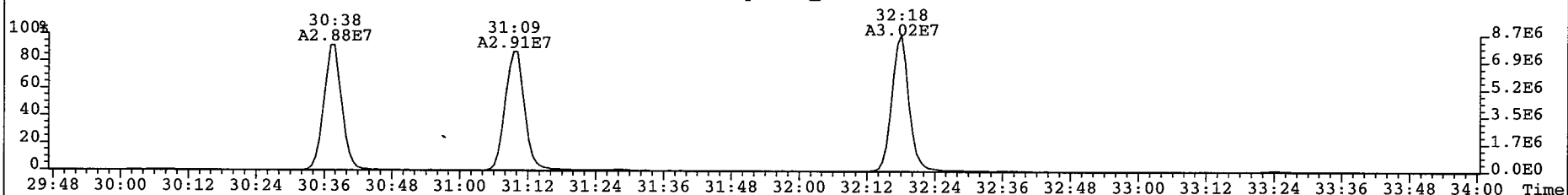
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78



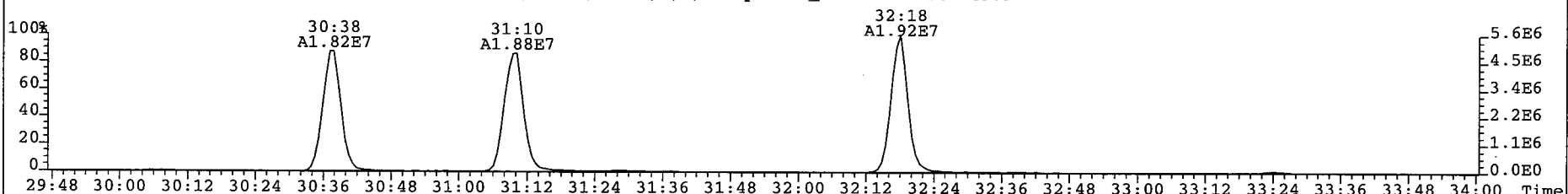
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



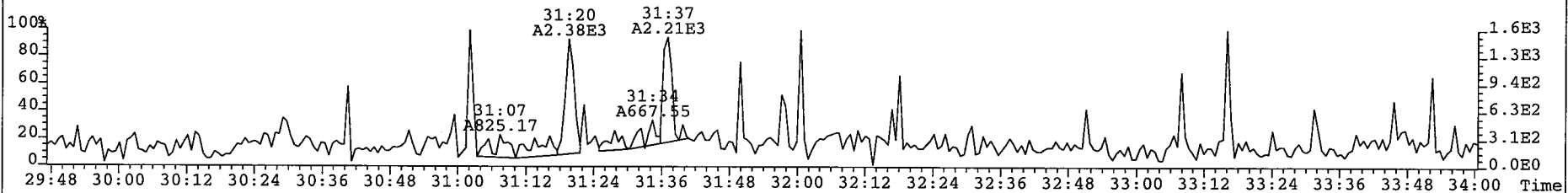
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1837



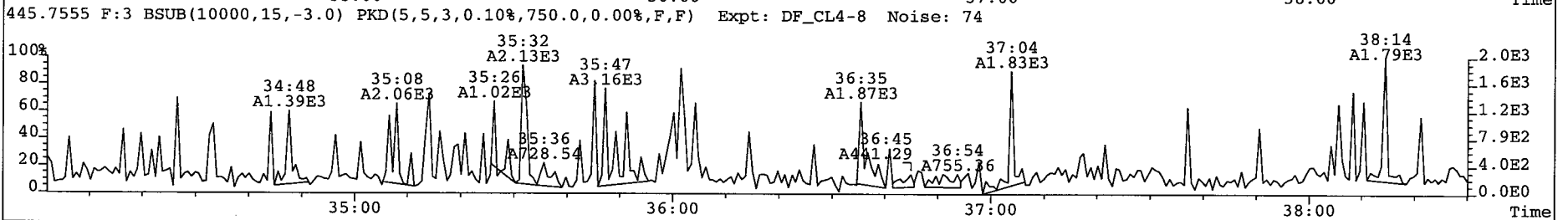
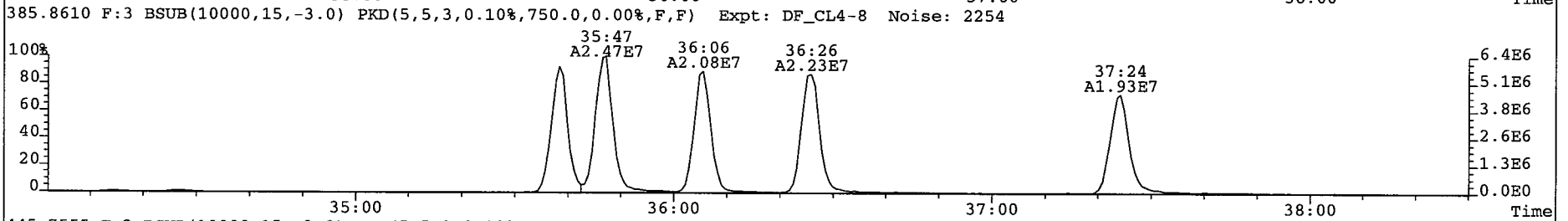
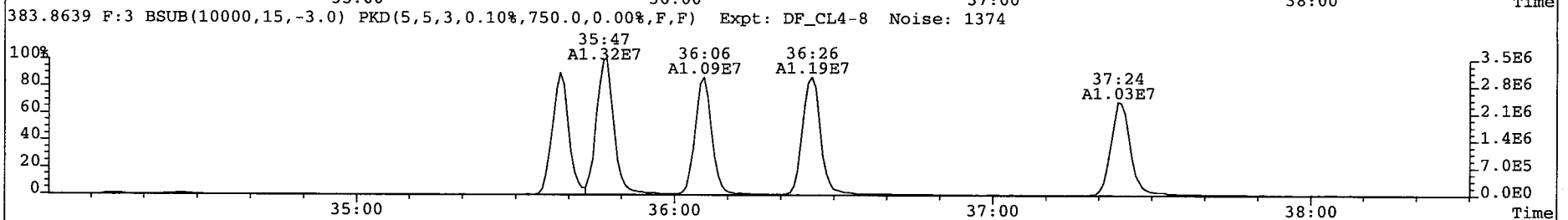
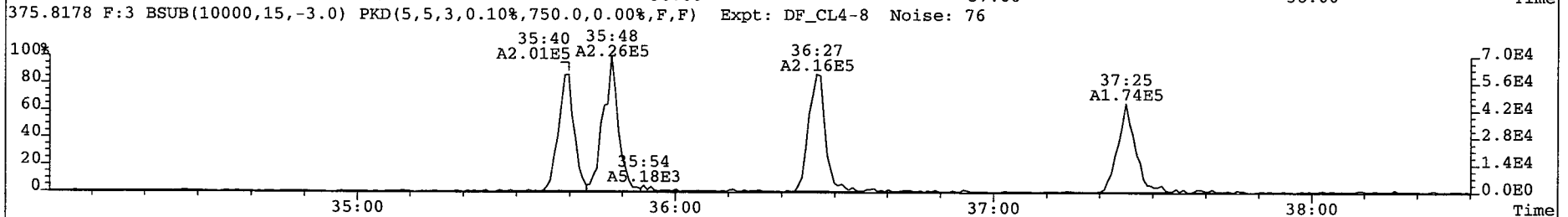
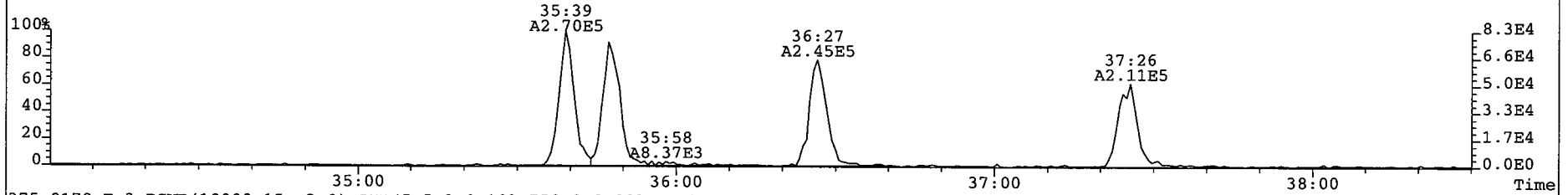
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1363



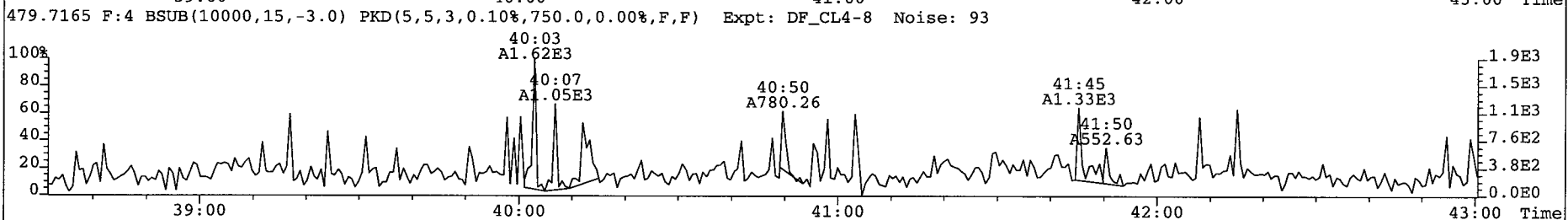
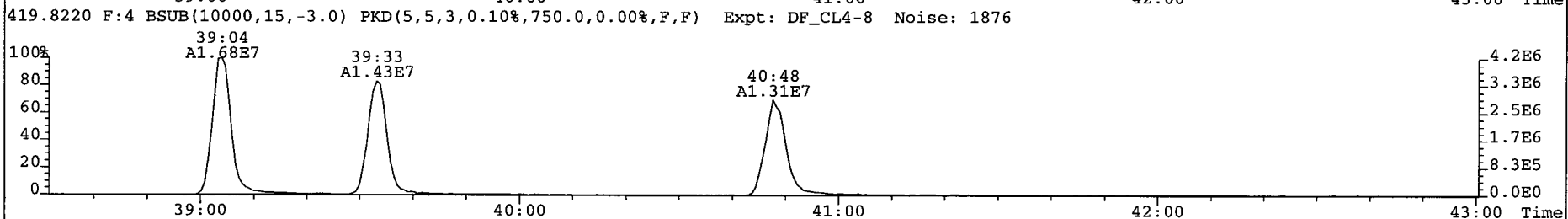
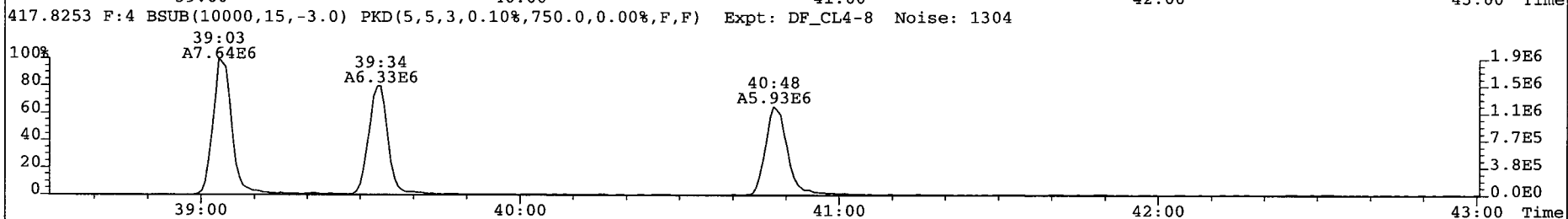
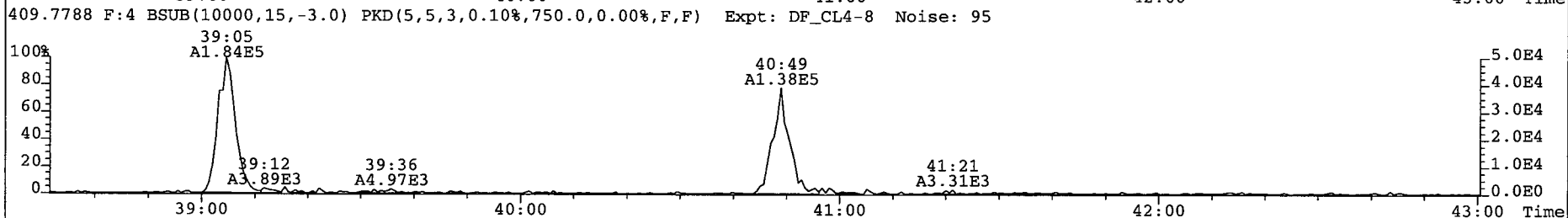
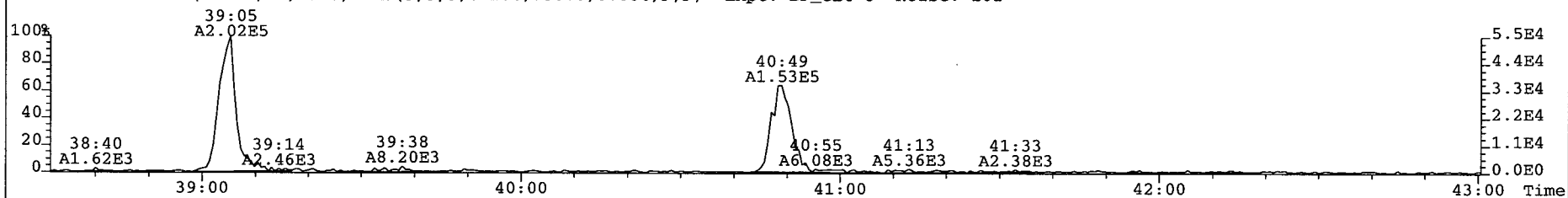
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



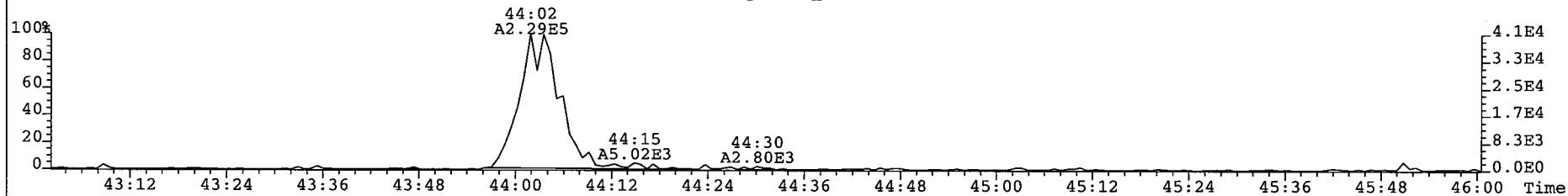
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



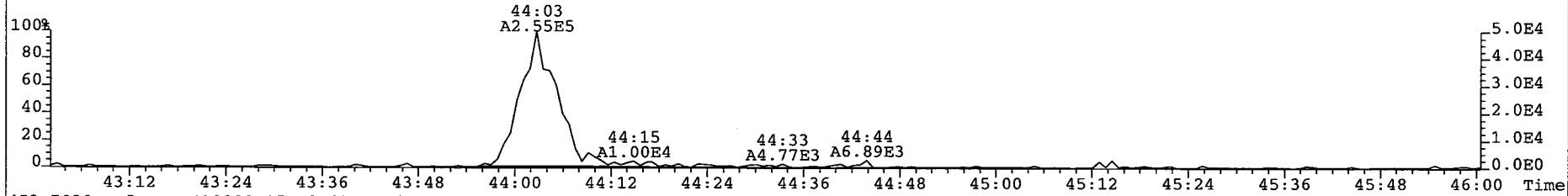
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 161



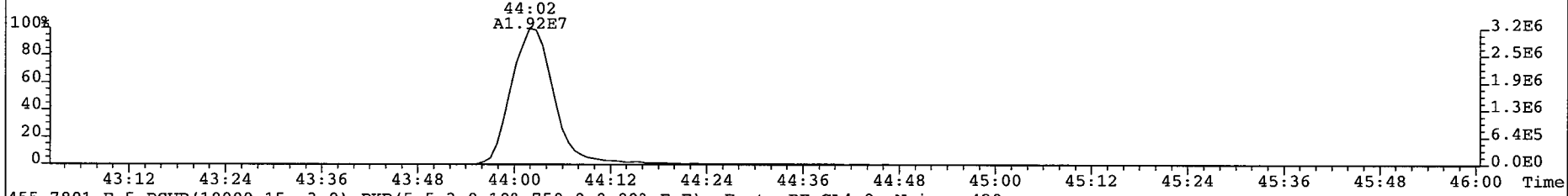
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 75



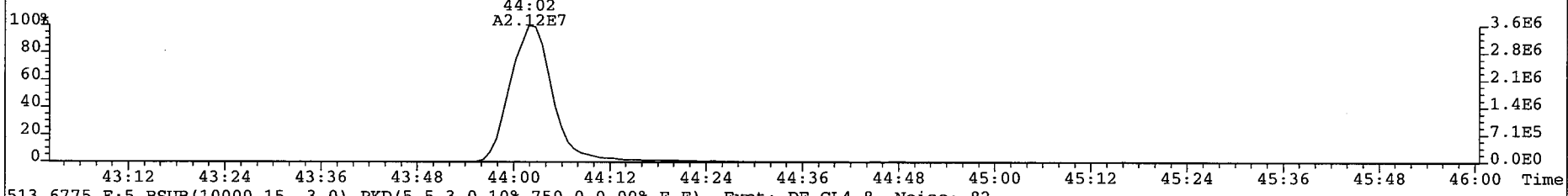
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 67



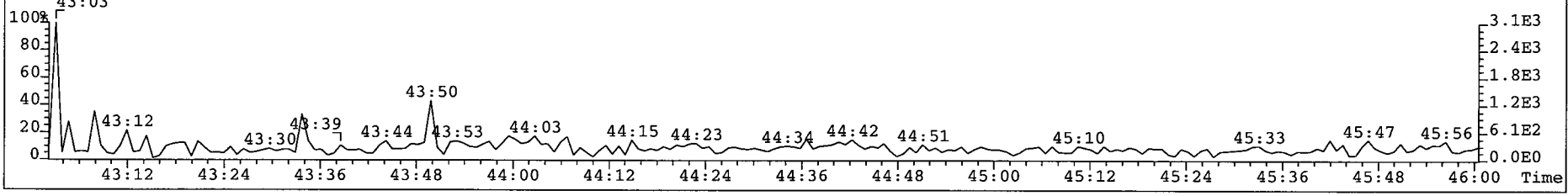
453.7830 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 246



455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 420



513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS1 ✓
 Lab ID: SIL7-26-2
 Sample text: SIL7-26-2 NEW ICAL CS1

Filename: 081225P1 S: 2 Acq: 25-DEC-08 11:02:27
 GC Column ID: db-5 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 17

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	0.50	1.83e+05	0.88 y	27:06	-	1.00 ✓
2	Ax 1,2,3,7,8-PeCDD	2.50	6.90e+05	1.55 y	32:41	-	0.94
3	Ax 1,2,3,4,7,8-HxCDD	2.50	6.09e+05	1.22 y	36:38	-	1.06
4	Ax 1,2,3,6,7,8-HxCDD	2.50	5.43e+05	1.32 y	36:45	-	0.84 ✓
5	Ax 1,2,3,7,8,9-HxCDD	2.50	5.73e+05	1.26 y	37:03	-	0.89
6	Ax 1,2,3,4,6,7,8-HpCDD	2.50	4.74e+05	1.06 y	40:15	-	0.94
7	Ax OCDD	5.00	6.22e+05	0.82 y	43:49	-	1.00 ✓
8	Ax2 OCDD-a	5.00	*	* n	NotF>	-	*
9	Ax 2,3,7,8-TCDF	0.50	2.95e+05	0.78 y	26:09	-	1.03 ✓
10	Ax 1,2,3,7,8-PeCDF	2.50	1.13e+06	1.57 y	31:11	-	0.96
11	Ax 2,3,4,7,8-PeCDF	2.50	1.21e+06	1.57 y	32:19	-	0.97
12	Ax 1,2,3,4,7,8-HxCDF	2.50	8.96e+05	1.22 y	35:40	-	1.14 ✓
13	Ax 1,2,3,6,7,8-HxCDF	2.50	1.01e+06	1.36 y	35:48	-	1.09
14	Ax 2,3,4,6,7,8-HxCDF	2.50	9.19e+05	1.29 y	36:27	-	1.09
15	Ax 1,2,3,7,8,9-HxCDF	2.50	7.42e+05	1.35 y	37:25	-	1.06
16	Ax 1,2,3,4,6,7,8-HpCDF	2.50	7.99e+05	1.05 y	39:05	-	1.36 ✓
17	Ax 1,2,3,4,7,8,9-HpCDF	2.50	5.60e+05	0.99 y	40:49	-	1.22
18	Ax OCDF	5.00	8.65e+05	0.84 y	44:03	-	0.91 ✓
19	Ax2 OCDF-a	5.00	*	* n	NotF>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.65e+07	0.82 y	27:04	-	0.96 ✓
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.95e+07	1.66 y	32:40	-	0.77
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.26 y	36:37	-	1.02 ✓
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.58e+07	1.29 y	36:44	-	1.15 ✓
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.57e+07	1.32 y	37:02	-	1.14 ✓
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.02e+07	1.05 y	40:14	-	0.90 ✓
26	ES 13C-OCDD	200.00	2.49e+07	0.86 y	43:49	-	0.55 ✓
27	ES 13C-2,3,7,8-TCDF	100.00	5.71e+07	0.78 y	26:08	-	0.93 ✓
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.70e+07	1.58 y	31:10	-	0.77
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.95e+07	1.60 y	32:18	-	0.81
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.15e+07	0.53 y	35:39	-	1.40
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.72e+07	0.53 y	35:47	-	1.65 ✓
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.36e+07	0.53 y	36:26	-	1.49
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.81e+07	0.52 y	37:25	-	1.25
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.35e+07	0.46 y	39:04	-	1.04 ✓
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.84e+07	0.45 y	40:49	-	0.82
36	ES 13C-OCDF	200.00	3.80e+07	0.90 y	44:03	-	0.84 ✓
37	CS 37Cl-2,3,7,8-TCDD	0.50	1.87e+05		27:06	-	0.98 ✓
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.91e+07	1.68 y	32:10	-	0.76
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.72e+07	1.59 y	30:38	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.19e+07	0.53 y	36:06	-	1.42
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.00e+07	0.46 y	39:34	-	0.89 ✓
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.81e+07	0.83 y	26:24	3.81e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	6.14e+07	0.78 y	24:43	6.14e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.18 y	36:56	2.25e+05	-

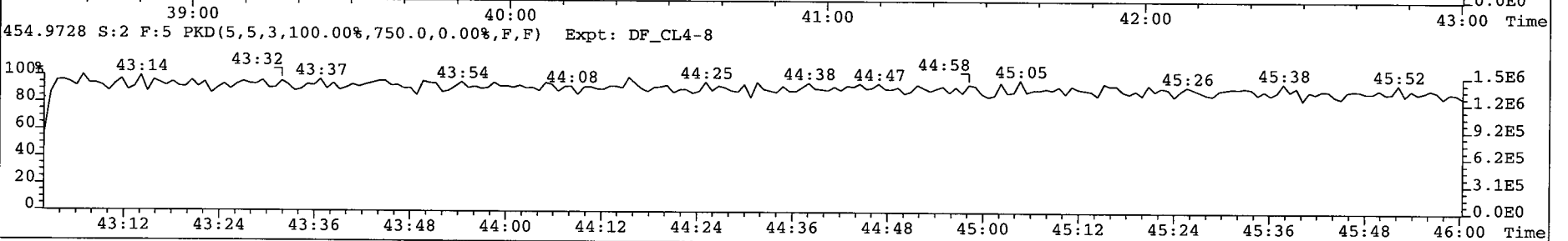
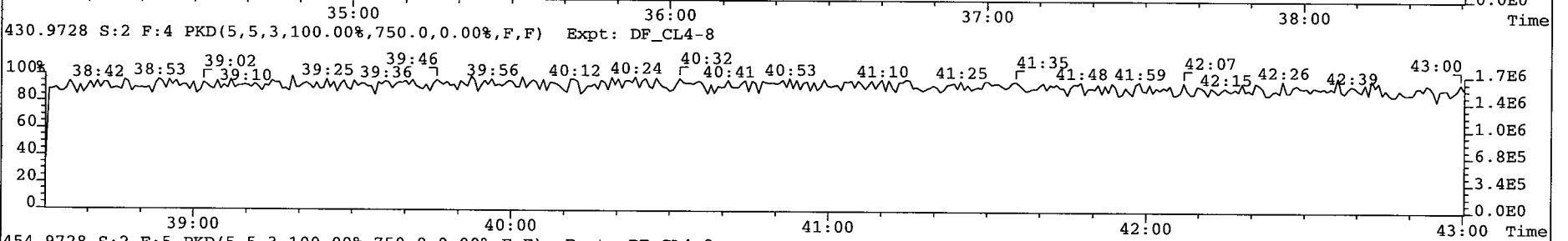
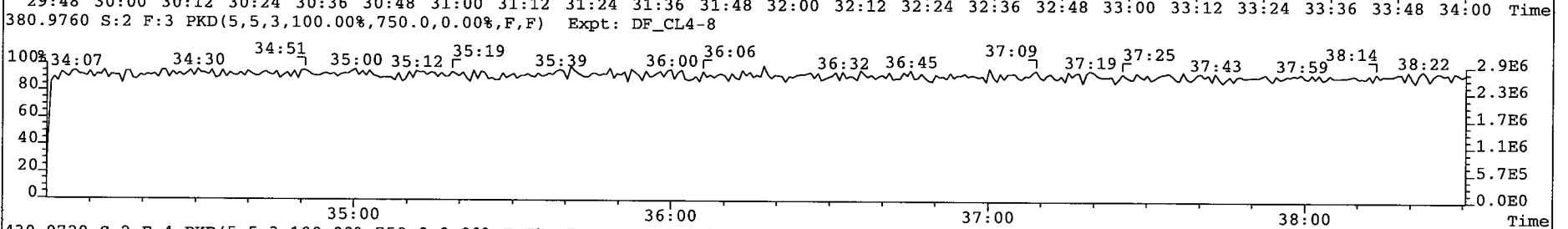
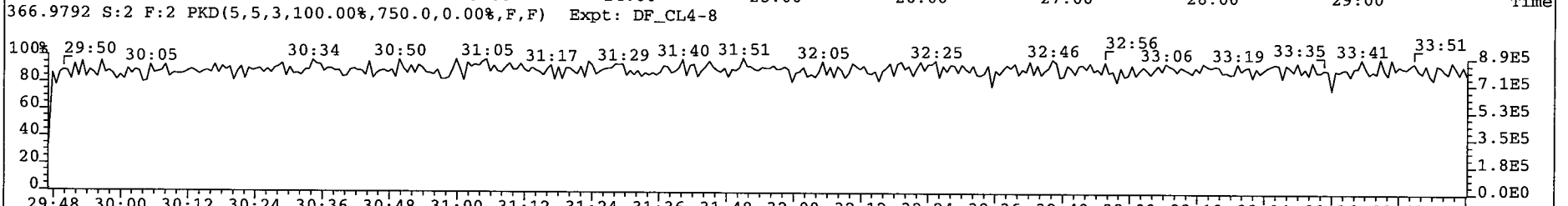
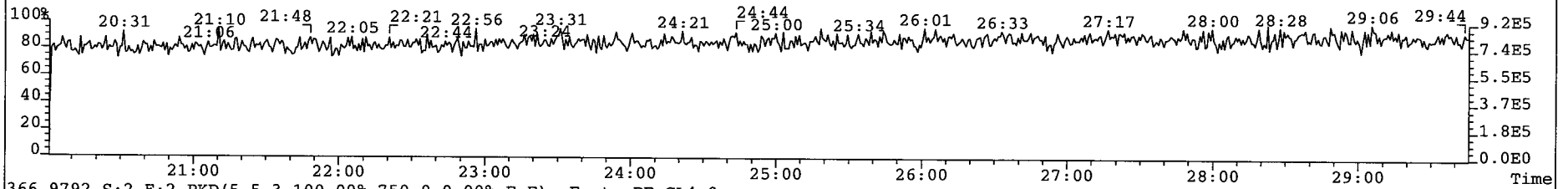
0.50 pg/ml

calc.

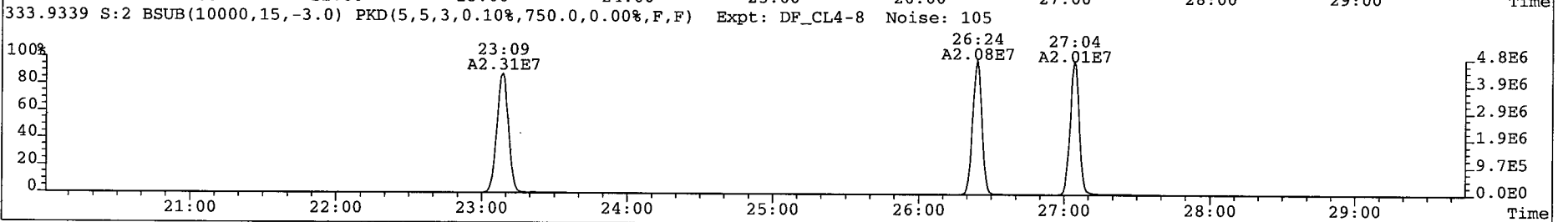
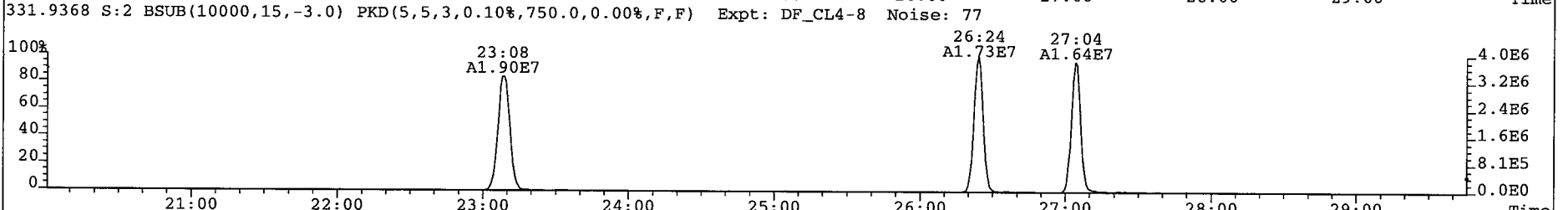
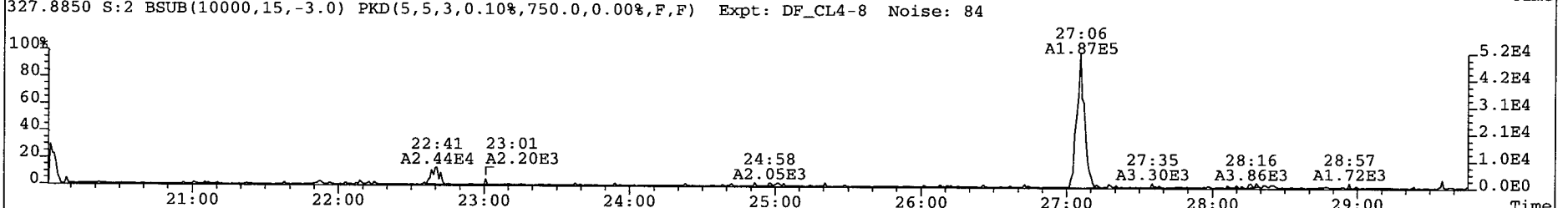
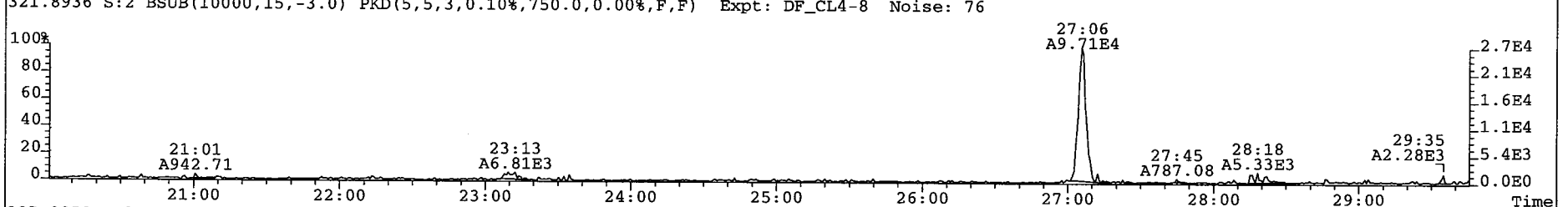
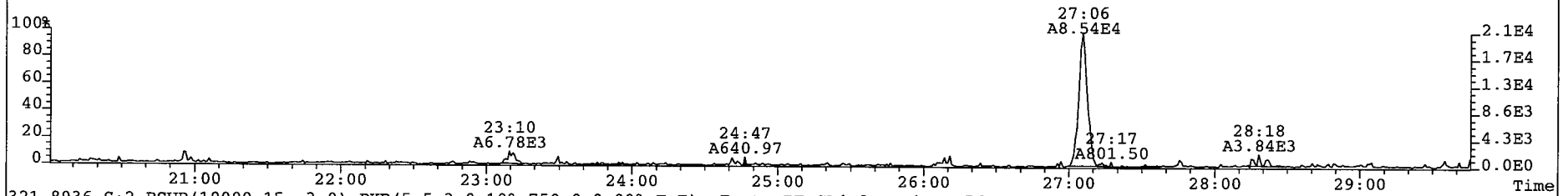
Analyst: *[Signature]*
 Date: 25/12/08

46	SS	37Cl-2,3,7,8-TCDD	0.50	1.87e+05		27:06	-	1.02 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.91e+07	1.68 y	32:10	-	0.99
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.72e+07	1.59 y	30:38	-	1.00
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.19e+07	0.53 y	36:06	-	0.86
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.00e+07	0.46 y	39:34	-	0.85 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03 •
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.00 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.00
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.00
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.94
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.94
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.93
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.94 ✓
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.09 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.00
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.94
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.93
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.94
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.09
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.30
73	Tot	TCDD EMPC	-	-	- n	-	-	1.00
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.94
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.93
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.94
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.09
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.30
81	AS	13C-1,3,6,8-TCDD	100.00	4.21e+07	0.82 y	23:09	-	1.10
82	AS	13C-1,3,6,8-TCDF	100.00	6.72e+07	0.78 y	20:57	-	1.10 ✓
83	DPE	HxCDPE	-	1.47e+04		24:40	-	-
84	DPE	HpCDPE	-	1.68e+04		31:36	-	-
85	DPE	OCDE	-	1.68e+04		34:37	-	-
86	DPE	NCDPE	-	*		NotF>	-	-
87	DPE	DCDPE	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

File: 081225F1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



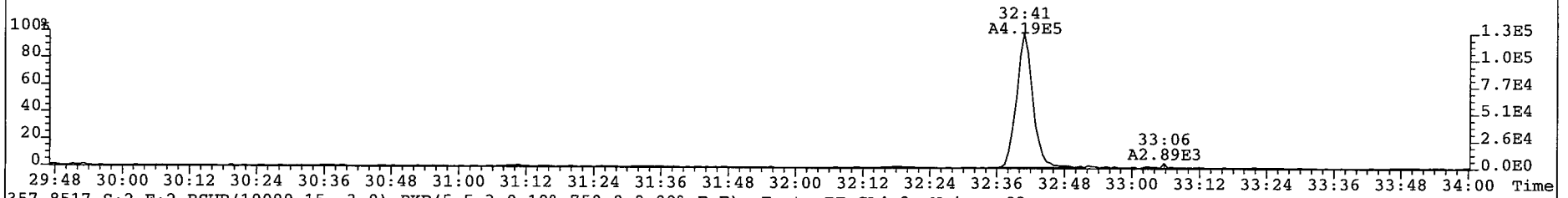
File: 081225PI Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 81



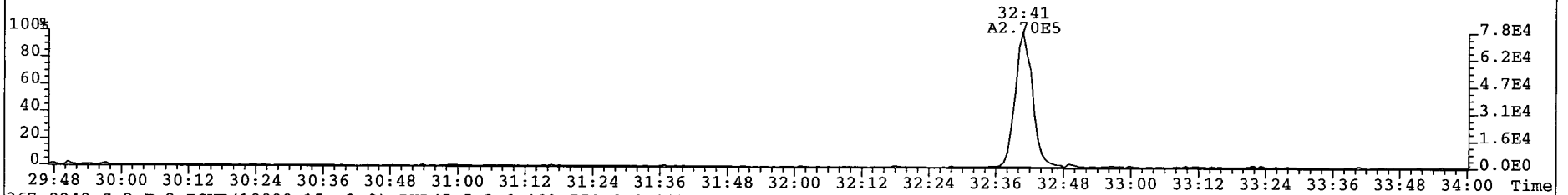
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

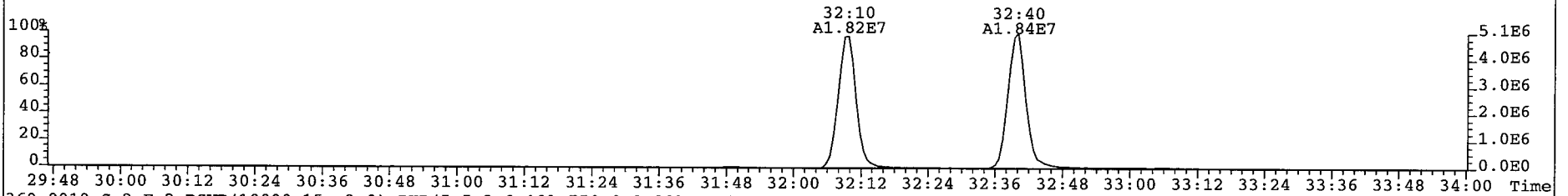
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 87



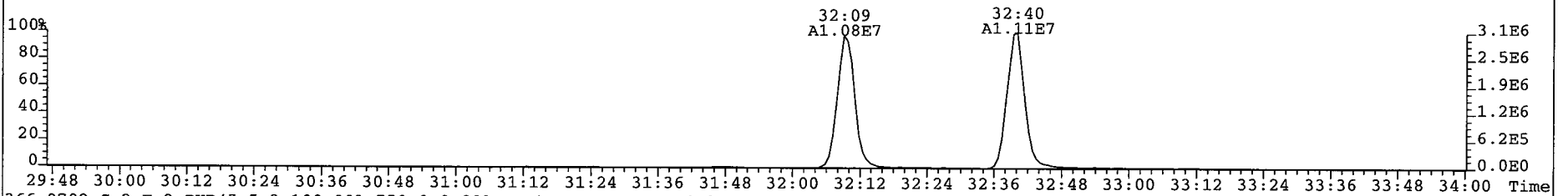
357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 83



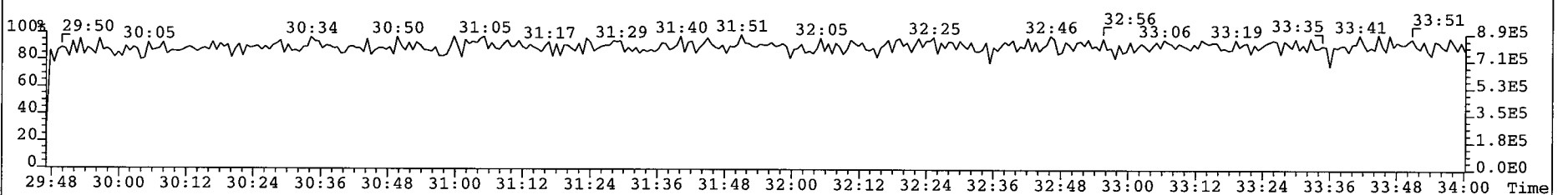
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 107



369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 357



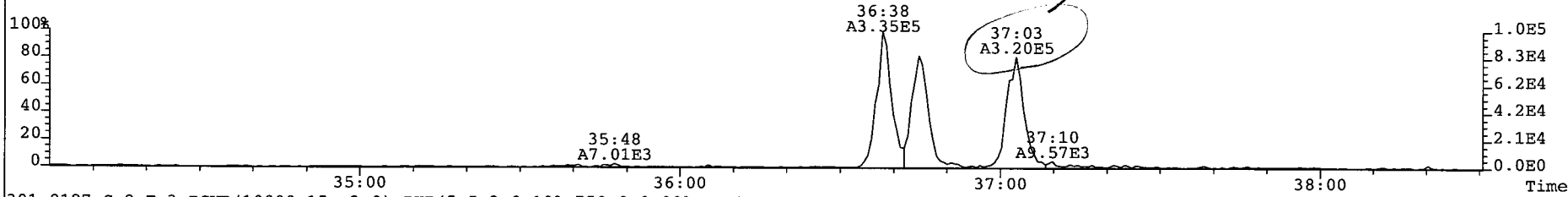
366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



File: 08I225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

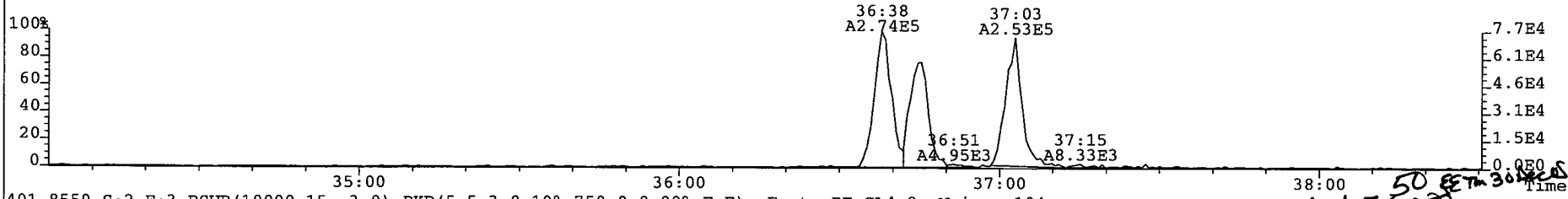
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72

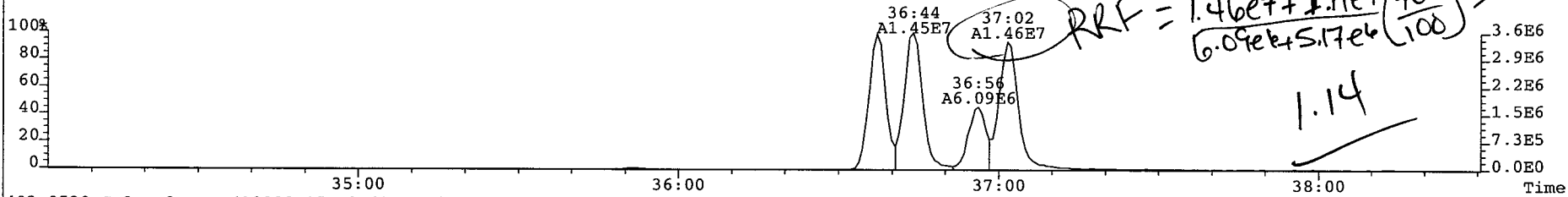


EE 7m 30sec
RRF

391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78



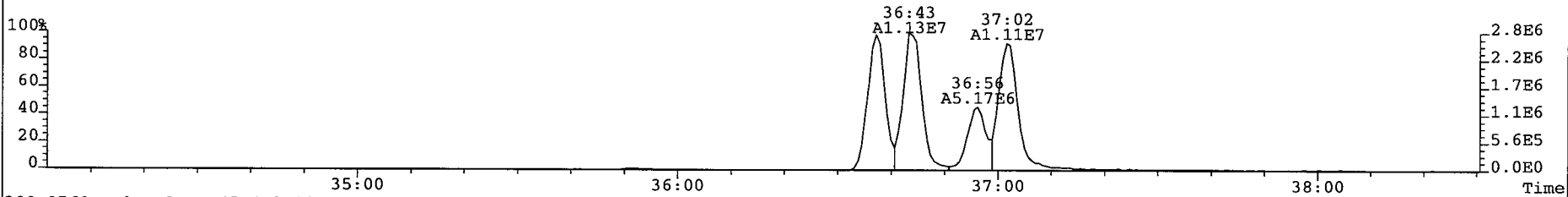
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 104



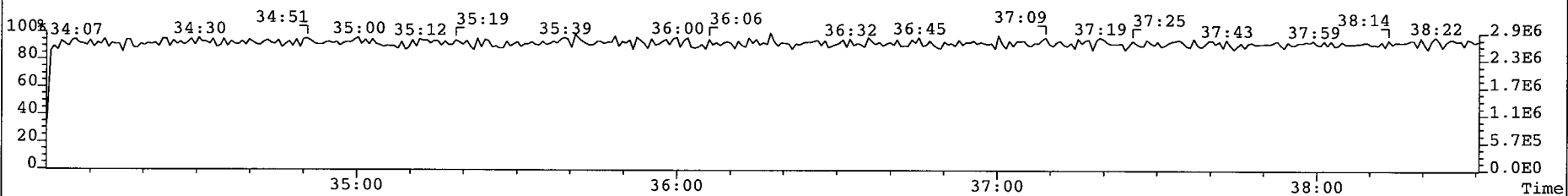
$$RRF = \frac{1.46e7 + 1.1e7}{6.09e6 + 5.17e6} \left(\frac{100}{100} \right) = 1.14$$

1.14

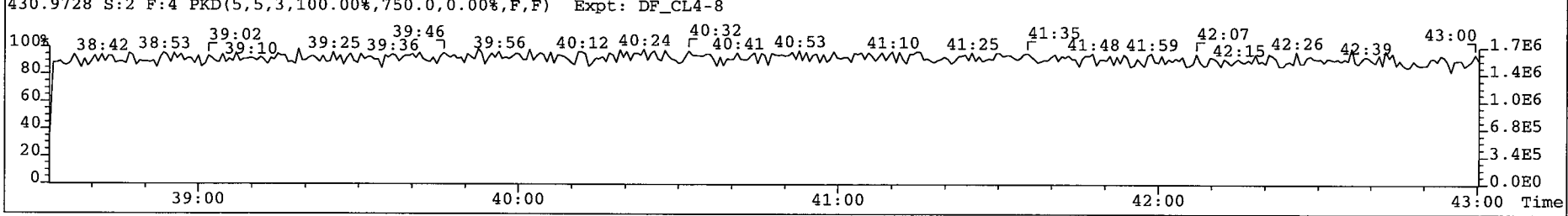
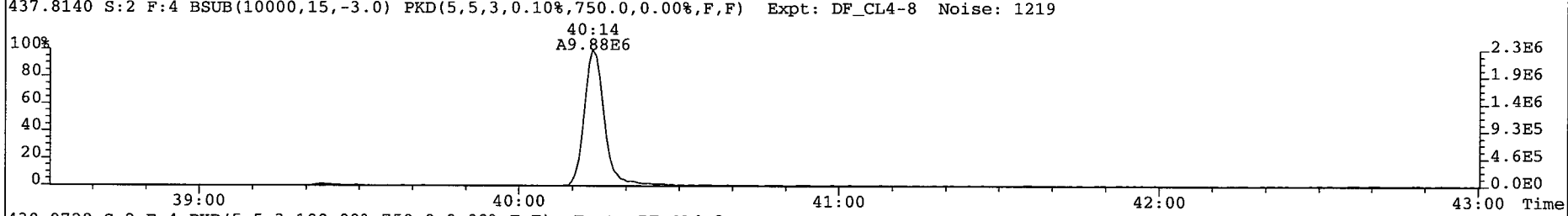
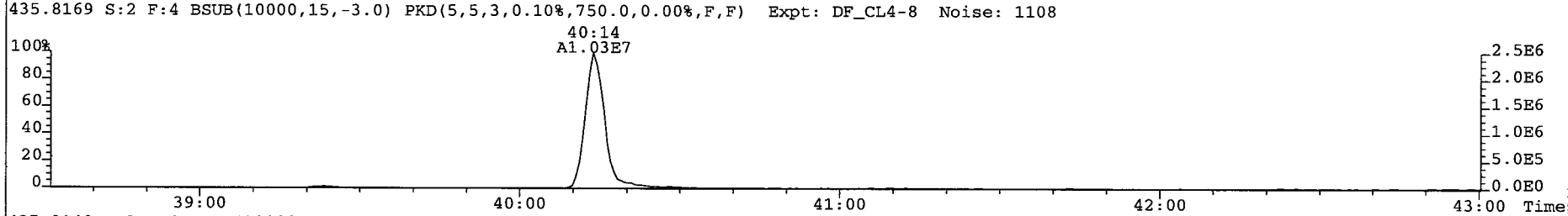
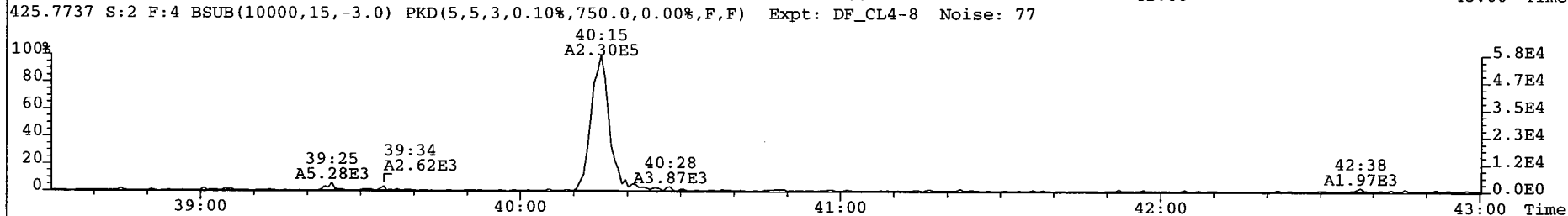
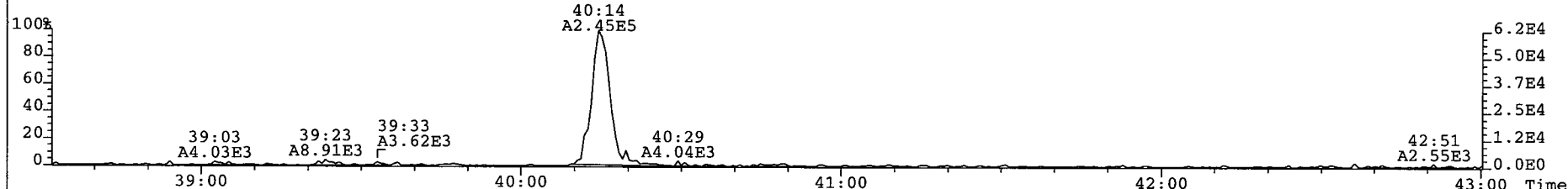
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 85



380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8

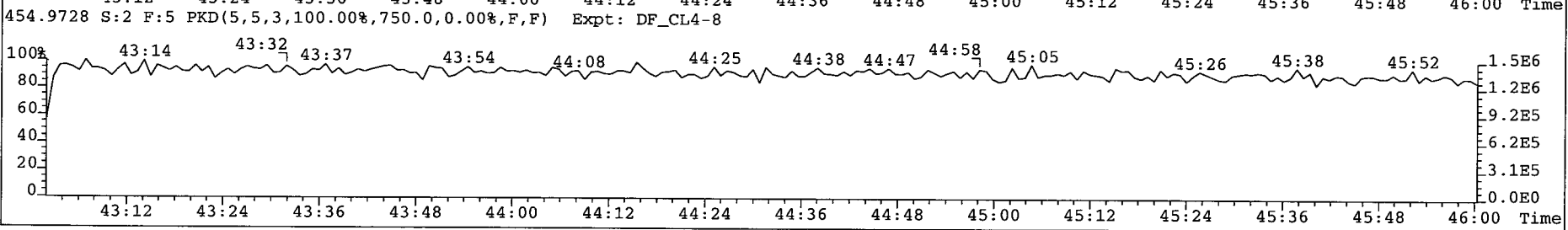
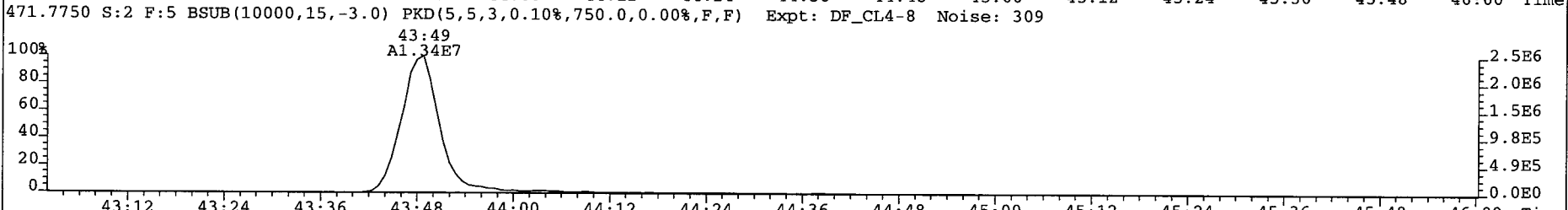
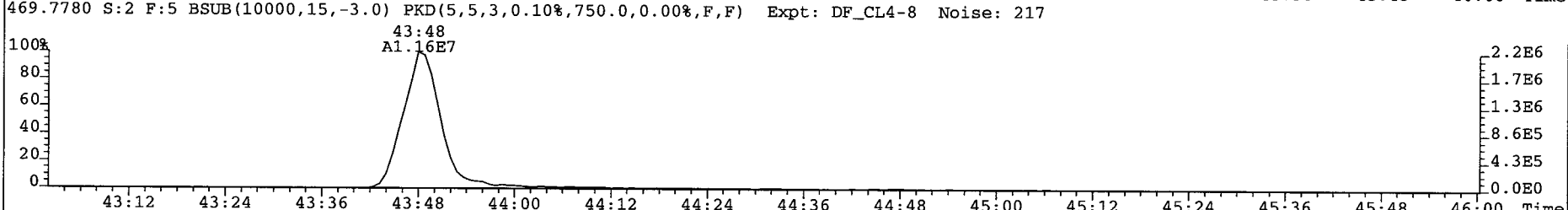
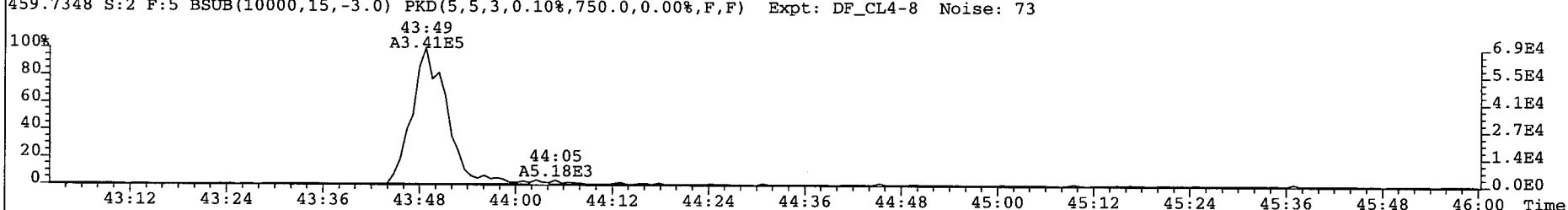
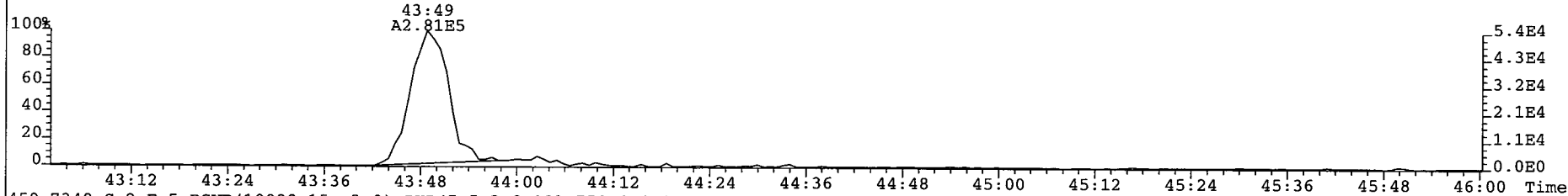


File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 108



File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

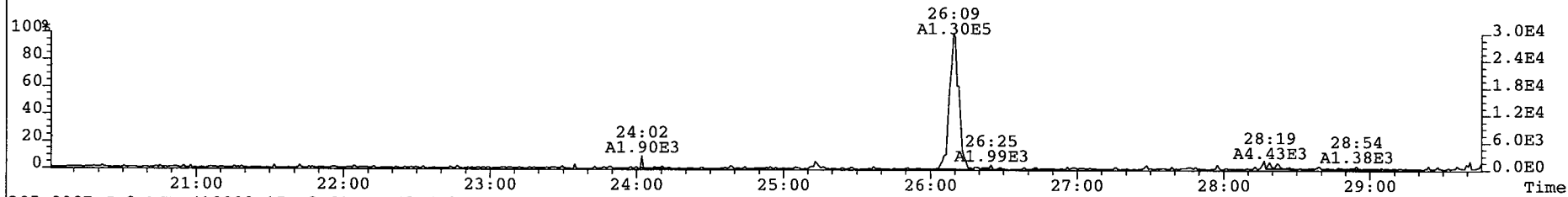
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72



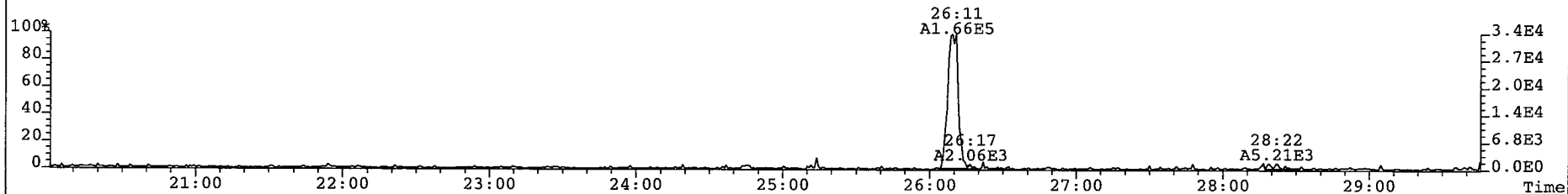
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

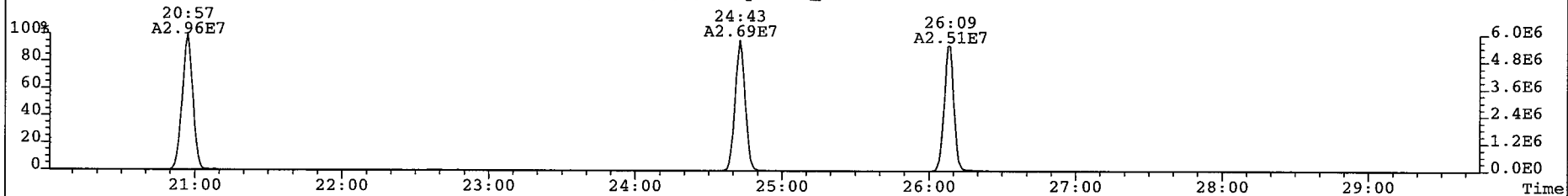
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



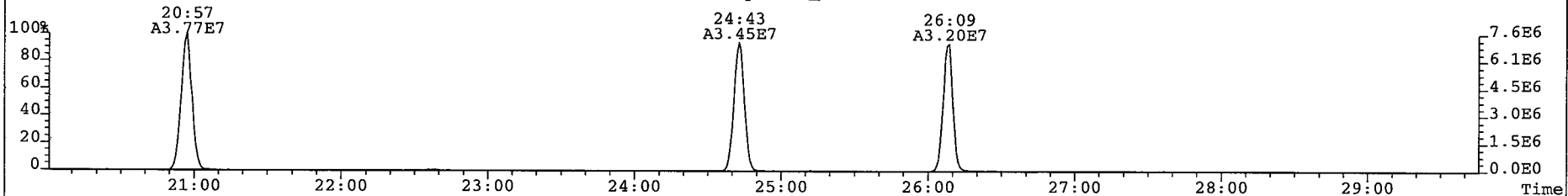
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86



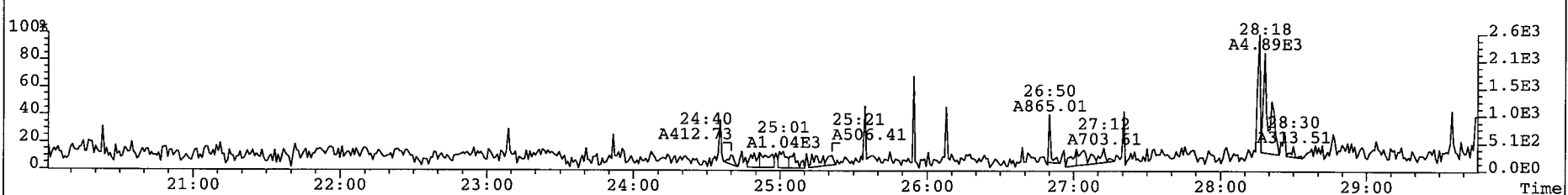
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 97



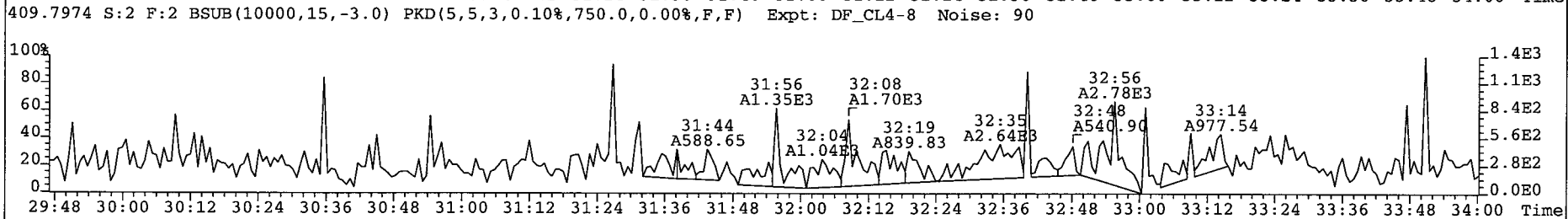
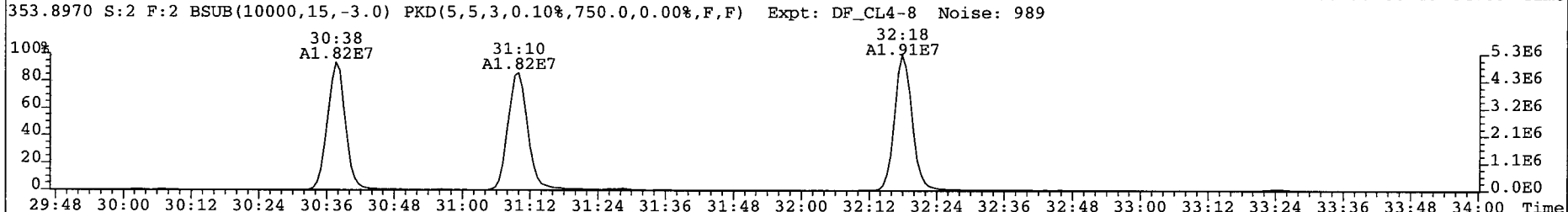
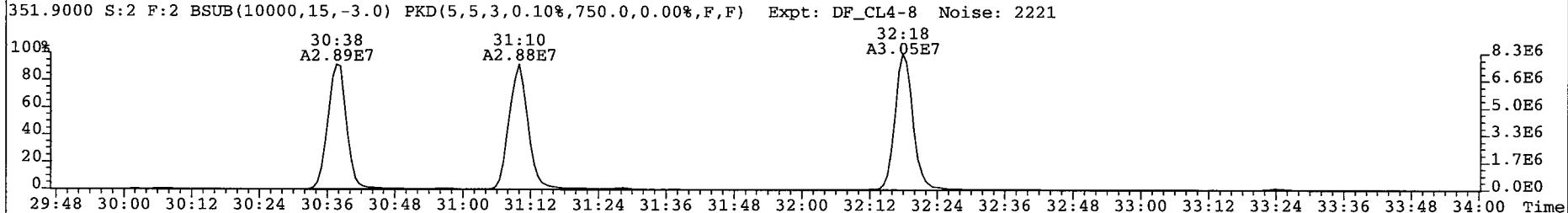
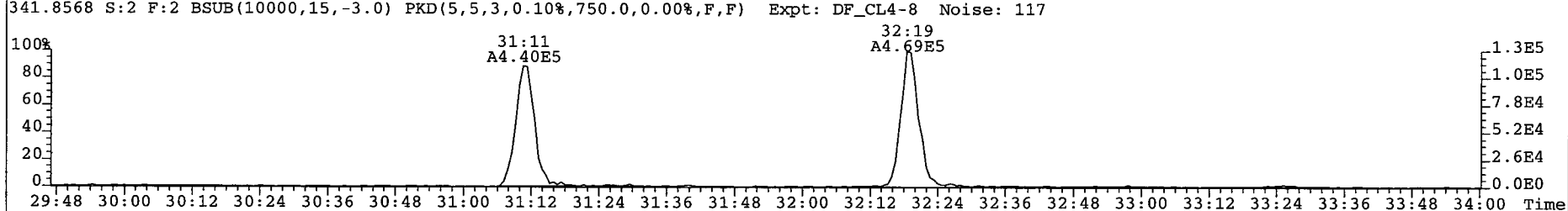
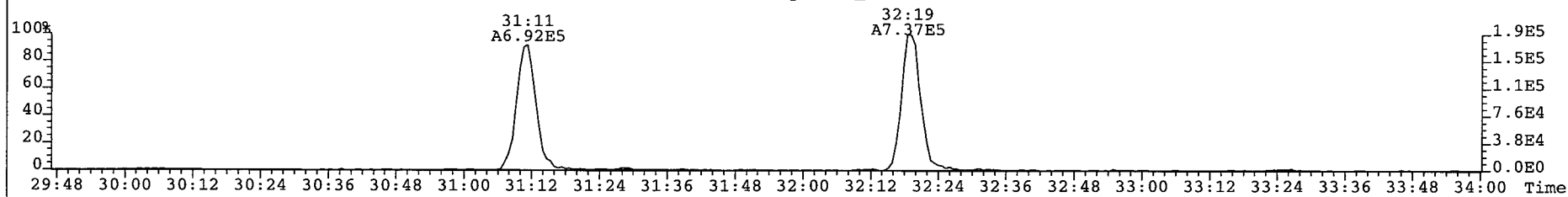
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 111



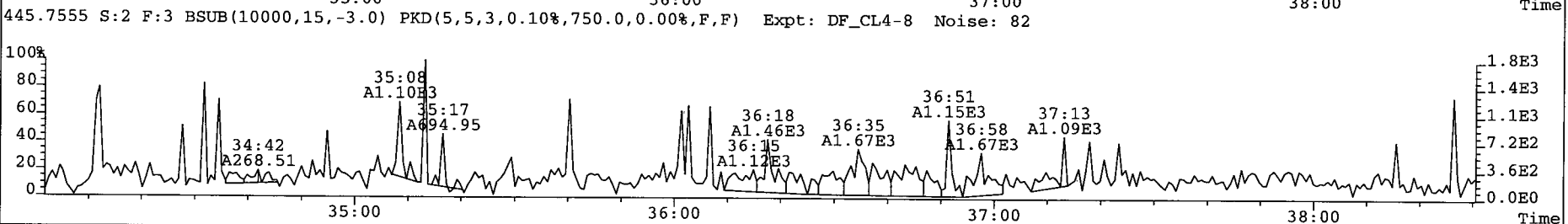
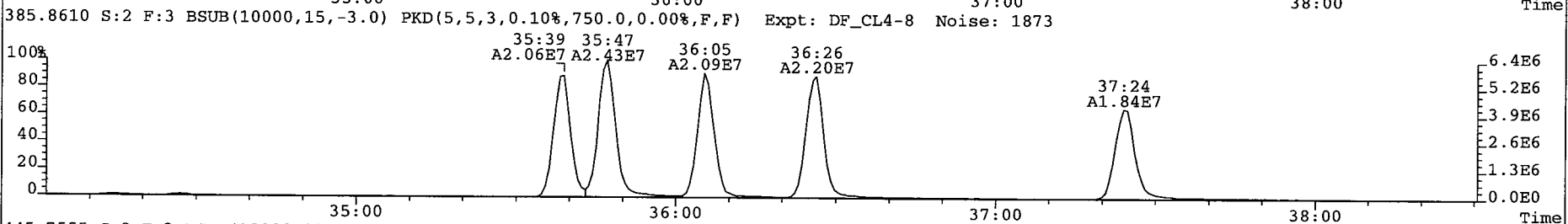
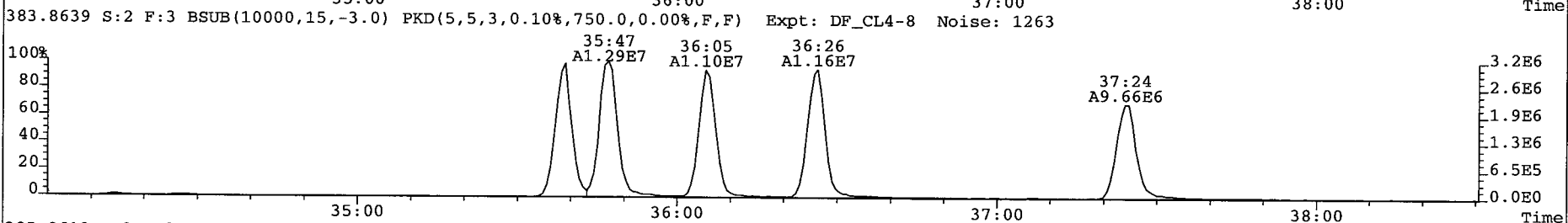
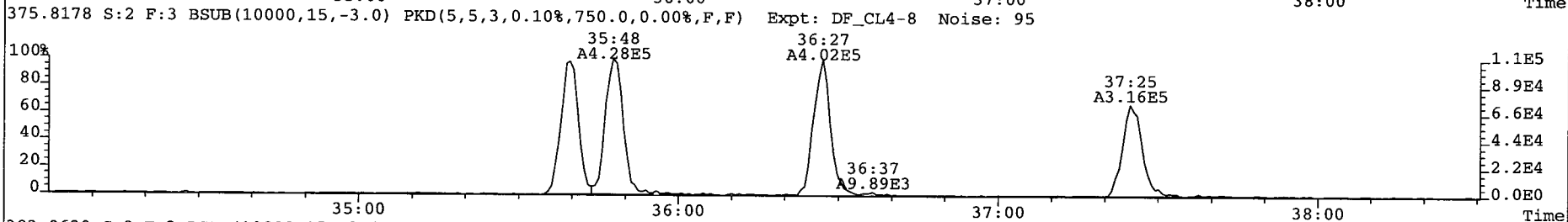
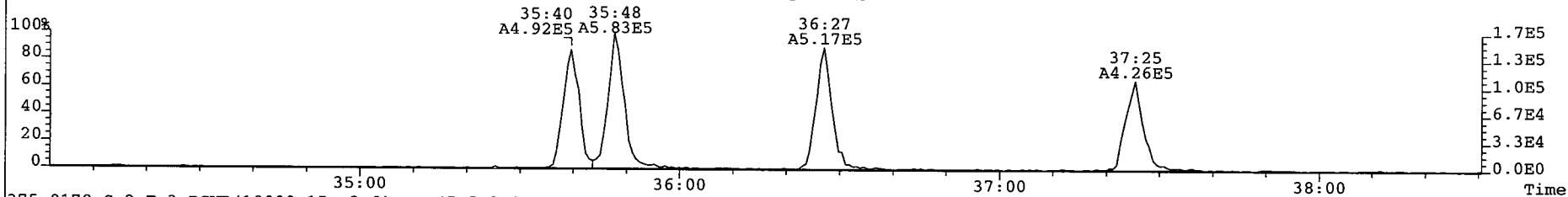
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 87



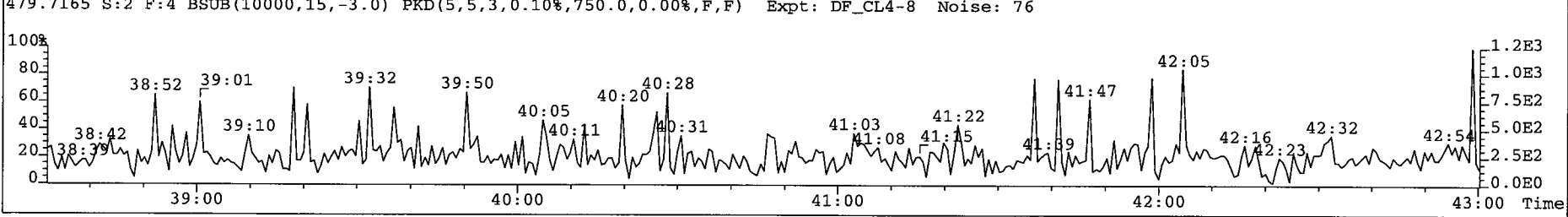
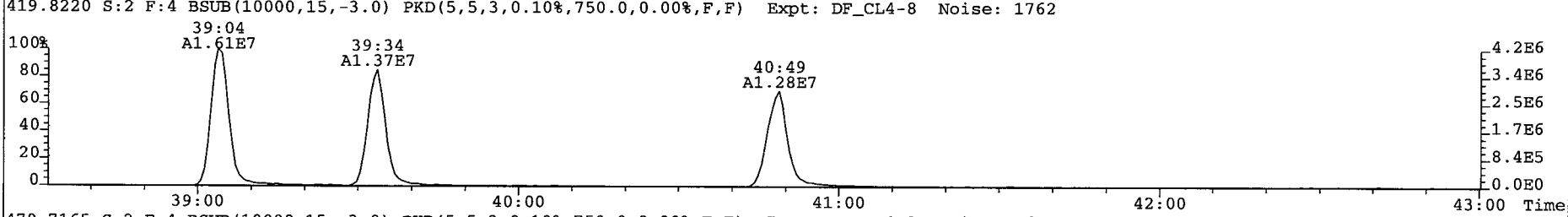
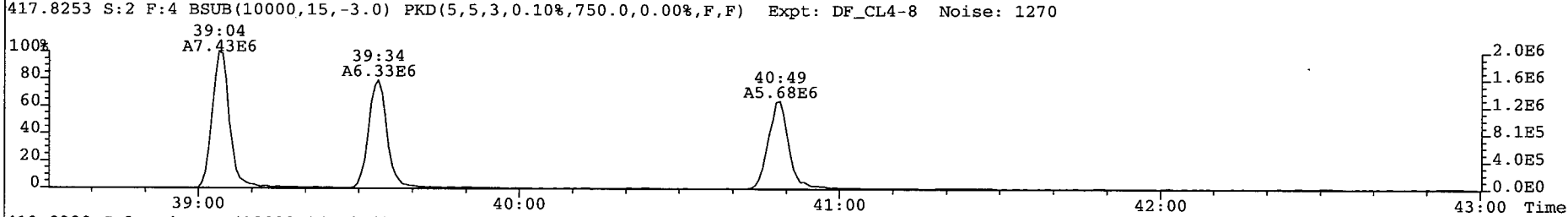
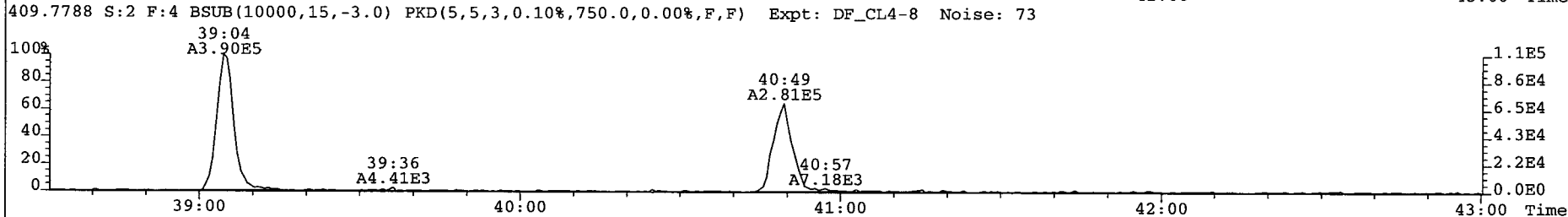
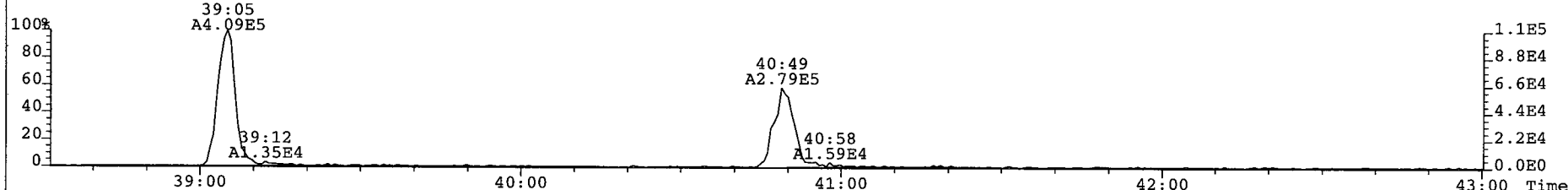
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CSI Vial# 17 File Text: AP DB5
339.8597 S:2 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 101



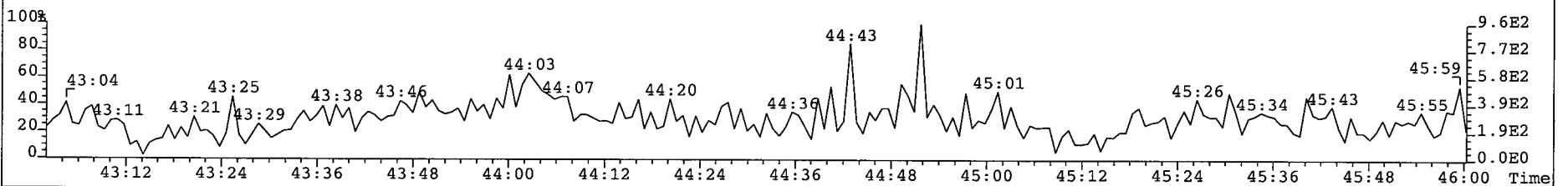
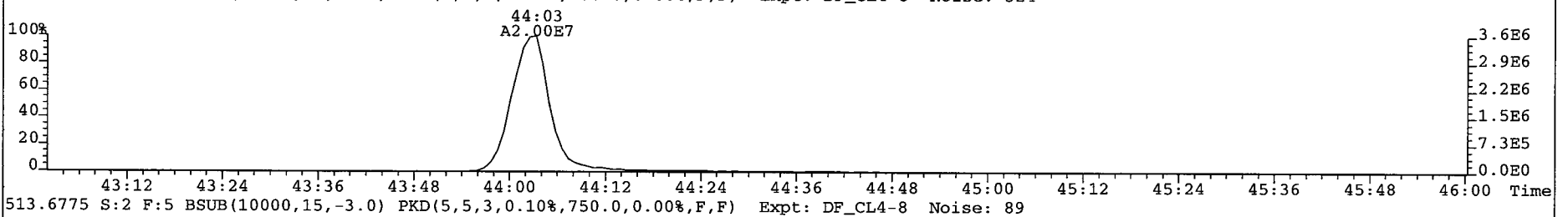
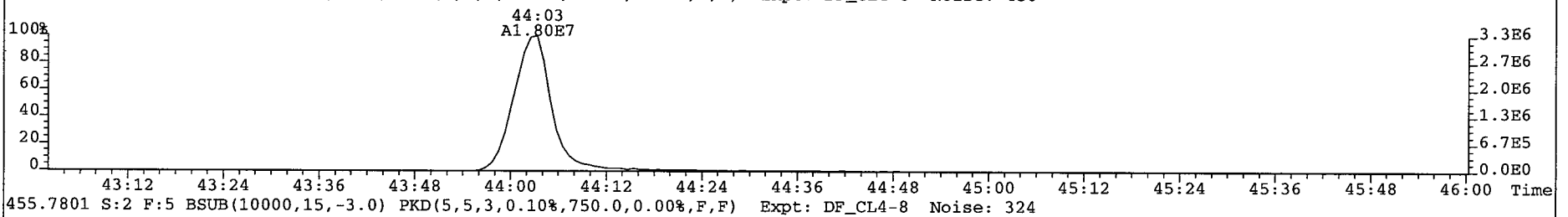
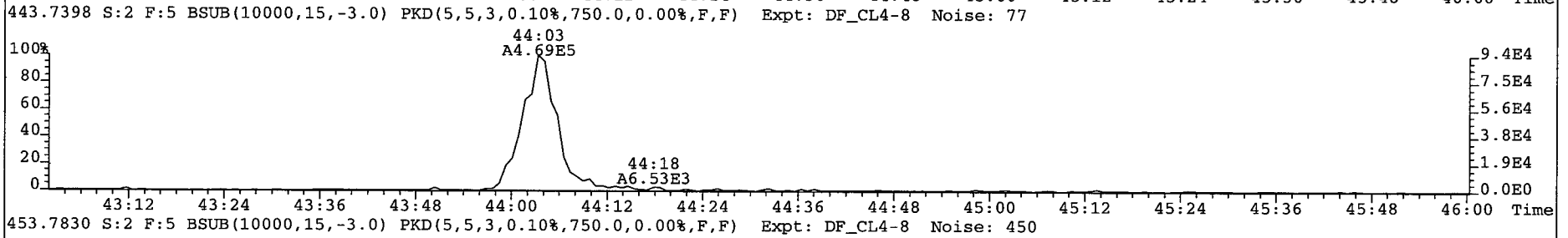
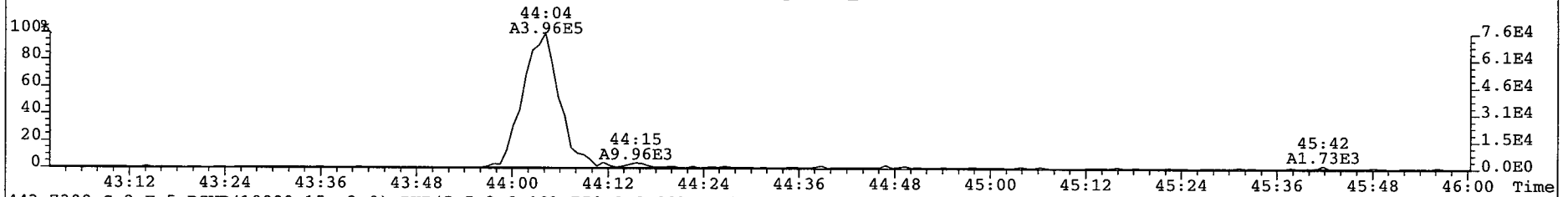
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 187



File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 127



File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS2 ✓
 Lab ID: SIL7-26-1
 Sample text: SIL7-26-1 NEW ICAL CS2

Filename: 081225P1 S: 3 ✓ Acq: 25-DEC-08 11:52:35
 GC Column ID: db-5 ICAL: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 18

2.0 PG/ml

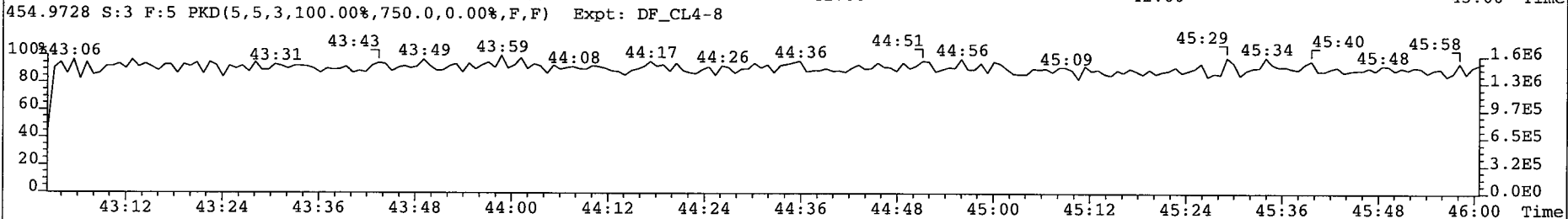
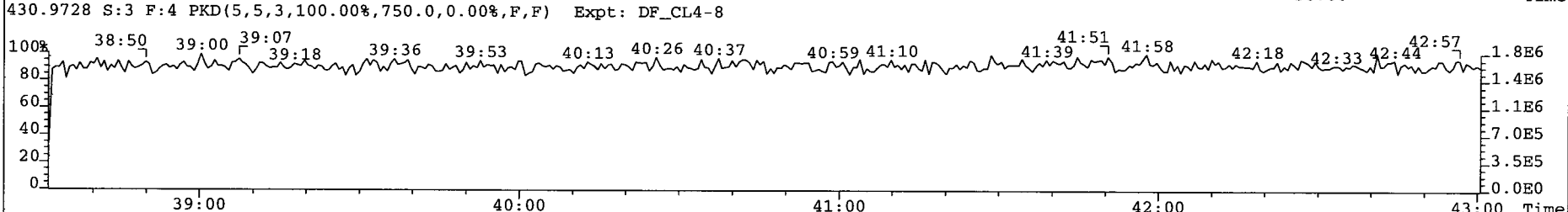
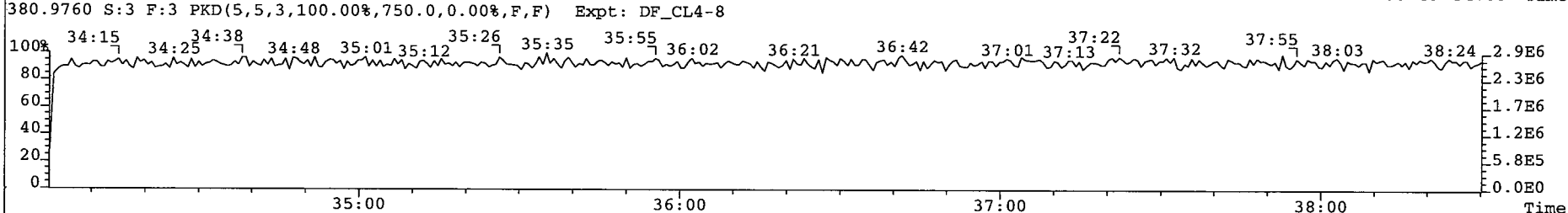
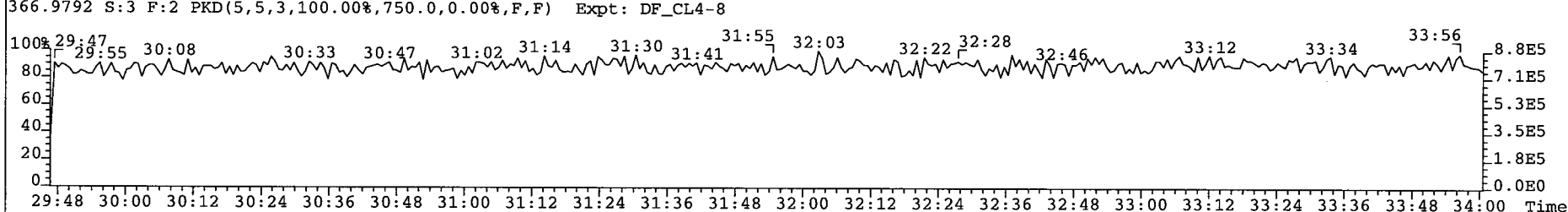
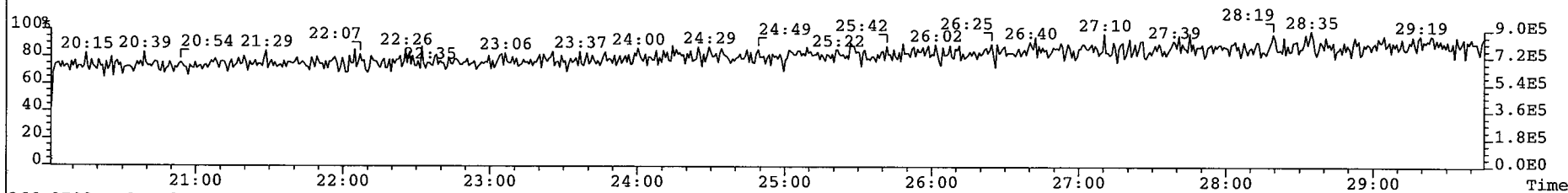
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	2.00	6.34e+05	0.79 y	27:06	-	1.03
2	Ax 1,2,3,7,8-PeCDD	10.00	2.42e+06	1.62 y	32:41	-	0.96
3	Ax 1,2,3,4,7,8-HxCDD	10.00	2.18e+06	1.32 y	36:38	-	1.04
4	Ax 1,2,3,6,7,8-HxCDD	10.00	2.05e+06	1.25 y	36:45	-	0.93
5	Ax 1,2,3,7,8,9-HxCDD	10.00	2.19e+06	1.21 y	37:03	-	0.96
6	Ax 1,2,3,4,6,7,8-HpCDD	10.00	1.71e+06	1.07 y	40:15	-	0.92
7	Ax OCDD	20.00	2.48e+06	0.91 y	43:50	-	1.03
8	Ax2 OCDD-a	20.00	*	* n	NotF>	-	*
9	Ax 2,3,7,8-TCDF	2.00	9.40e+05	0.80 y	26:10	-	1.01
10	Ax 1,2,3,7,8-PeCDF	10.00	3.87e+06	1.57 y	31:11	-	0.94
11	Ax 2,3,4,7,8-PeCDF	10.00	4.19e+06	1.64 y	32:19	-	0.99
12	Ax 1,2,3,4,7,8-HxCDF	10.00	3.30e+06	1.26 y	35:40	-	1.18
13	Ax 1,2,3,6,7,8-HxCDF	10.00	3.64e+06	1.24 y	35:48	-	1.12
14	Ax 2,3,4,6,7,8-HxCDF	10.00	3.36e+06	1.21 y	36:27	-	1.10
15	Ax 1,2,3,7,8,9-HxCDF	10.00	2.91e+06	1.30 y	37:26	-	1.08
16	Ax 1,2,3,4,6,7,8-HpCDF	10.00	2.89e+06	1.03 y	39:05	-	1.34
17	Ax 1,2,3,4,7,8,9-HpCDF	10.00	2.18e+06	1.08 y	40:50	-	1.28
18	Ax OCDF	20.00	3.32e+06	0.92 y	44:04	-	0.89
19	Ax2 OCDF-a	20.00	*	* n	NotF>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.07e+07	0.81 y	27:04	-	0.98
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.52e+07	1.64 y	32:40	-	0.80
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.08e+07	1.30 y	36:37	-	1.06
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.21e+07	1.27 y	36:44	-	1.13
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.28e+07	1.27 y	37:02	-	1.16
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	1.85e+07	1.06 y	40:15	-	0.94
26	ES 13C-OCDD	200.00	2.41e+07	0.85 y	43:49	-	0.62
27	ES 13C-2,3,7,8-TCDF	100.00	4.65e+07	0.81 y	26:08	-	0.94
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.11e+07	1.59 y	31:10	-	0.83
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.22e+07	1.56 y	32:18	-	0.85
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	2.79e+07	0.54 y	35:38	-	1.42
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.24e+07	0.53 y	35:47	-	1.65
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.06e+07	0.54 y	36:26	-	1.56
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.68e+07	0.55 y	37:25	-	1.37
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.17e+07	0.45 y	39:05	-	1.11
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.70e+07	0.44 y	40:49	-	0.87
36	ES 13C-OCDF	200.00	3.72e+07	0.91 y	44:03	-	0.95
37	CS 37Cl-2,3,7,8-TCDD	2.00	5.88e+05		27:06	-	0.93
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.45e+07	1.68 y	32:09	-	0.78
39	CS 13C-1,2,3,4,6-PeCDF	100.00	3.99e+07	1.58 y	30:38	-	0.80
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	2.79e+07	0.54 y	36:06	-	1.43
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	1.86e+07	0.46 y	39:34	-	0.95
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.15e+07	0.81 y	26:24	3.15e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	4.96e+07	0.79 y	24:42	4.96e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	9.80e+06	1.31 y	36:56	1.96e+05	-

calc

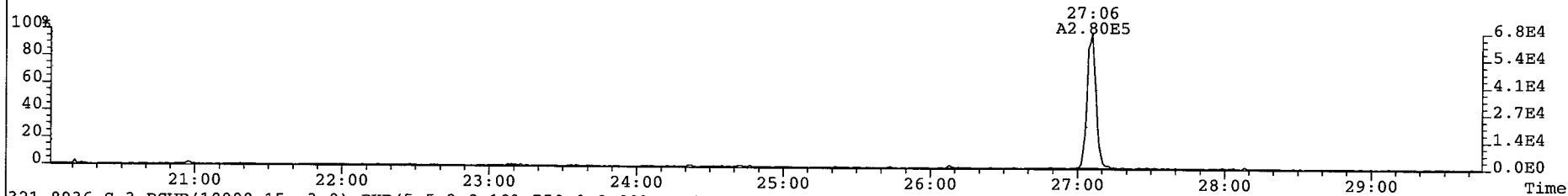
Analyst: *[Signature]*
 Date: *27 Dec 08*

46	SS	37Cl-2,3,7,8-TCDD	2.00	5.88e+05		27:06	-	0.96 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.45e+07	1.68 y	32:09	-	0.97
48	SS	13C-1,2,3,4,6-PeCDF	100.00	3.99e+07	1.58 y	30:38	-	0.97 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.79e+07	0.54 y	36:06	-	0.86
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.86e+07	0.46 y	39:34	-	0.86 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.01 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.03 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.03
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.03
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.96
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.96
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.98 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.92
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.01
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.01
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.01
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.01
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97 ✓
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.12 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.03
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.96
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.98
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.92
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.01
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.12
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.31
73	Tot	TCDD EMPC	-	-	- n	-	-	1.03
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.96
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.98
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.92
77	Tot	TCDF EMPC	-	-	- n	-	-	1.01
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.12
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.31
81	AS	13C-1,3,6,8-TCDD	100.00	3.29e+07	0.81 y	23:08	-	1.04 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	5.25e+07	0.79 y	20:57	-	1.06 ✓
83	DPE	HxCdPE	-	3.70e+03		23:42	-	-
84	DPE	HpCDPE	-	1.56e+03		30:47	-	-
85	DPE	OCdPE	-	9.51e+03		35:09	-	-
86	DPE	NCDPE	-	1.34e+04		40:20	-	-
87	DPE	DCDPE	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

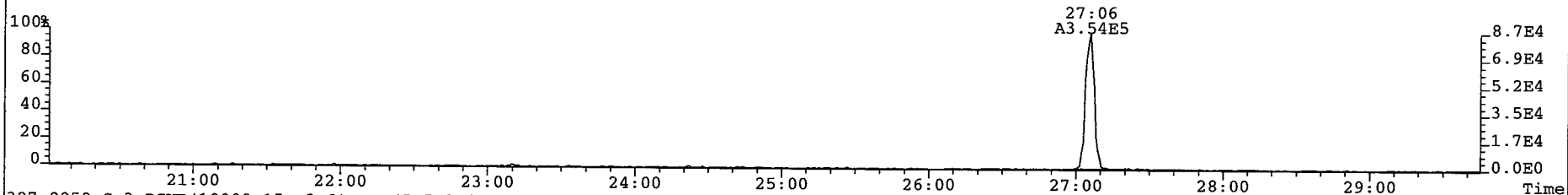
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



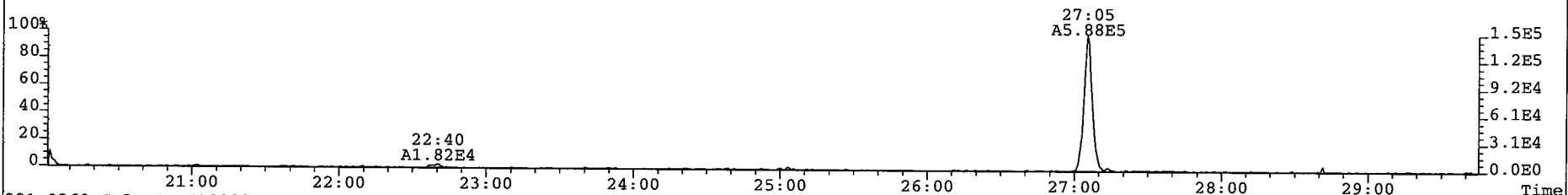
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 66



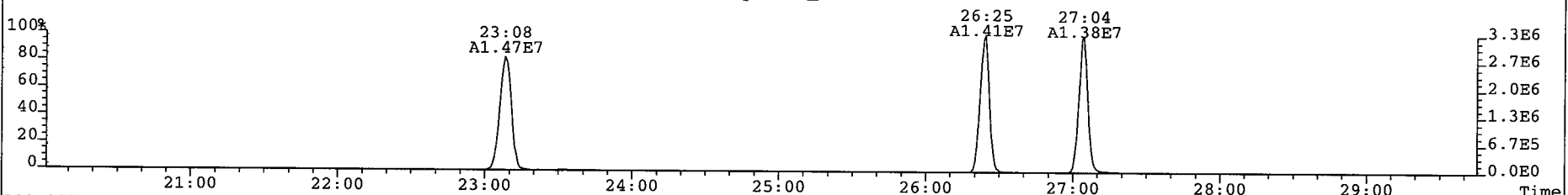
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 65



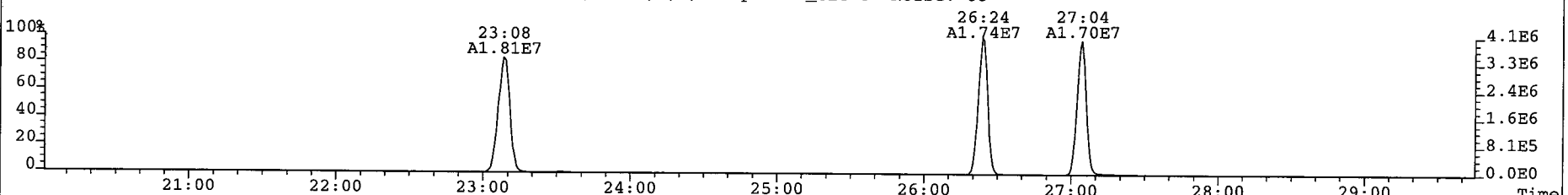
327.8850 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78



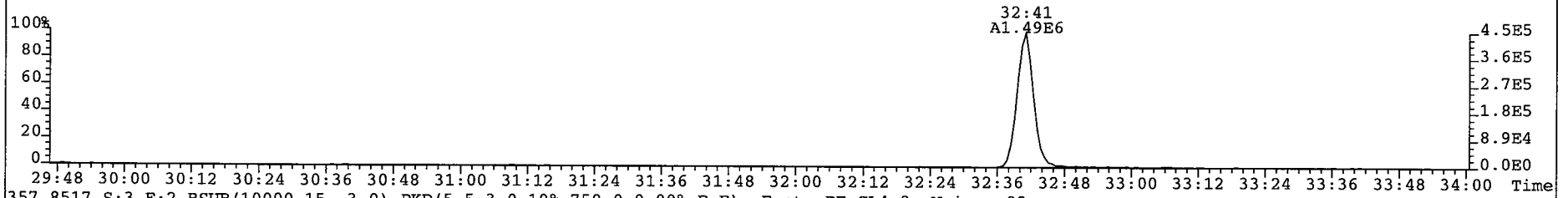
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



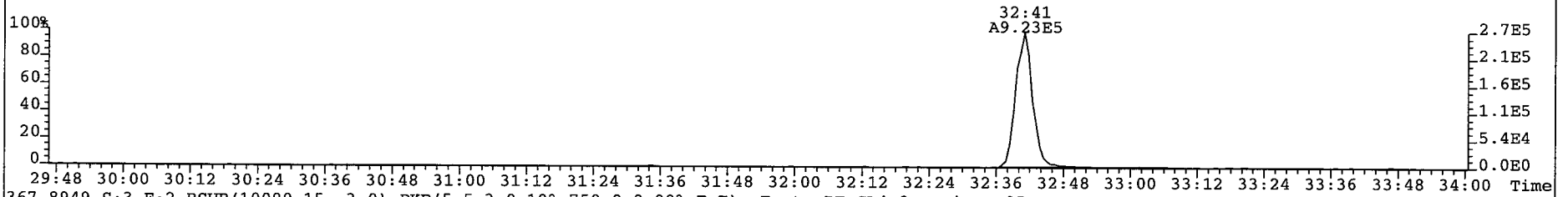
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

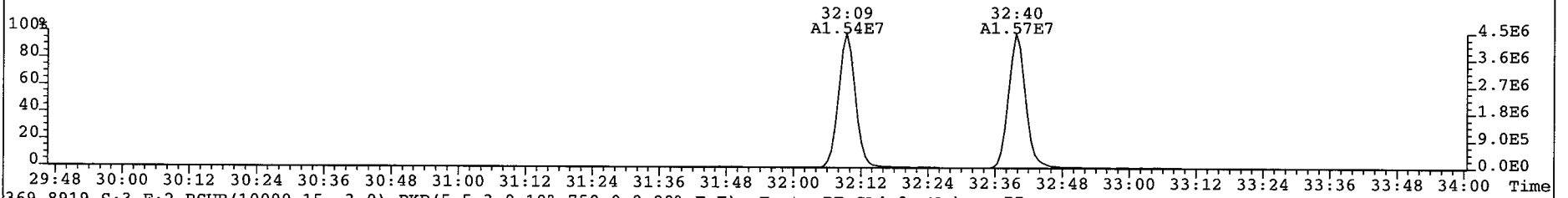
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



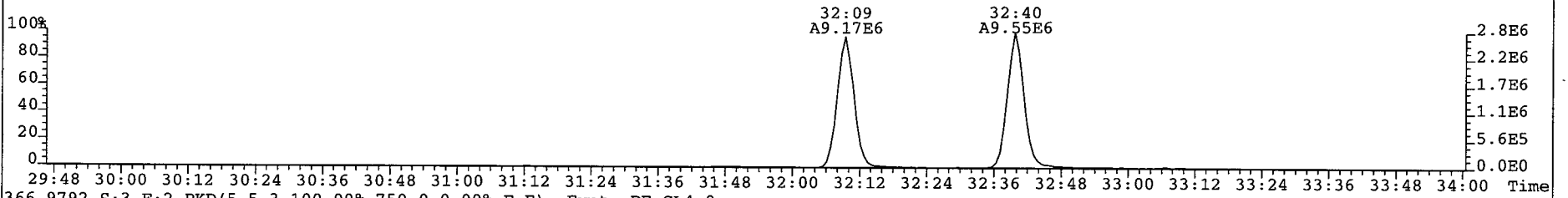
357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



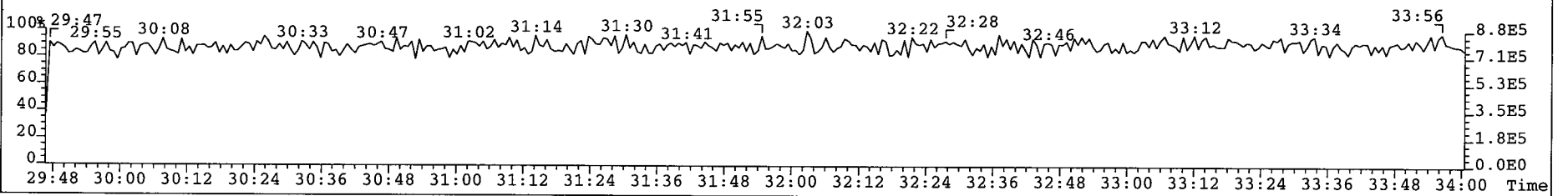
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 85



369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



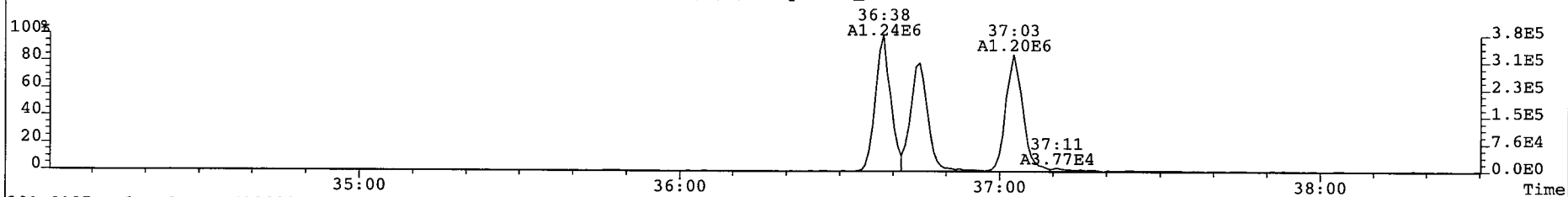
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



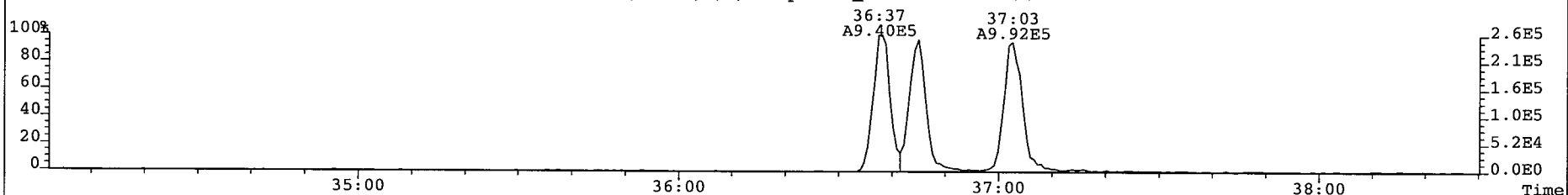
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

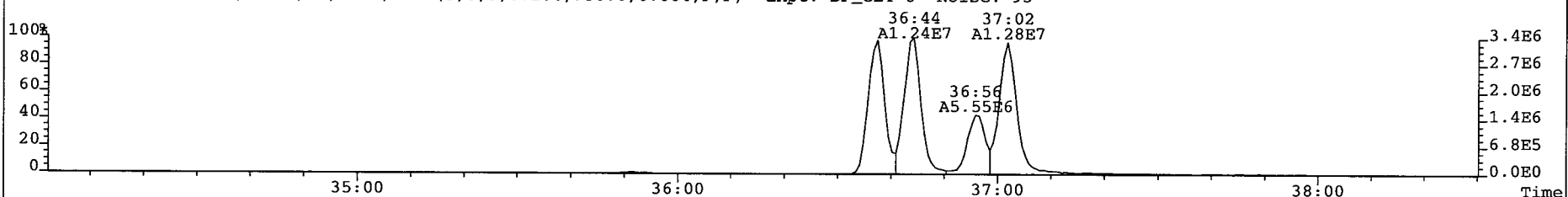
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



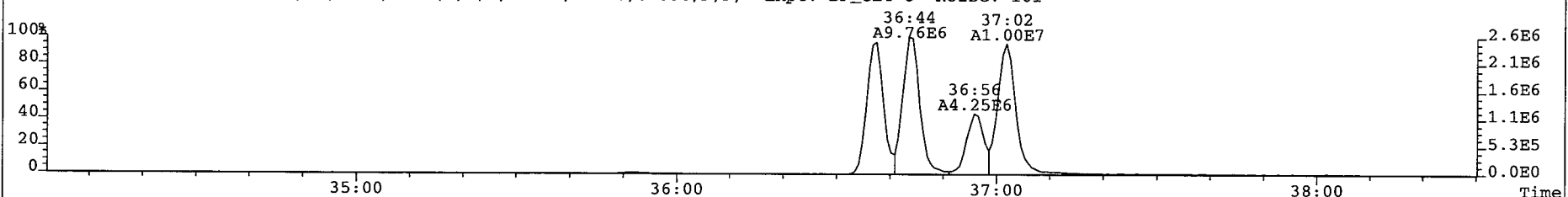
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 90



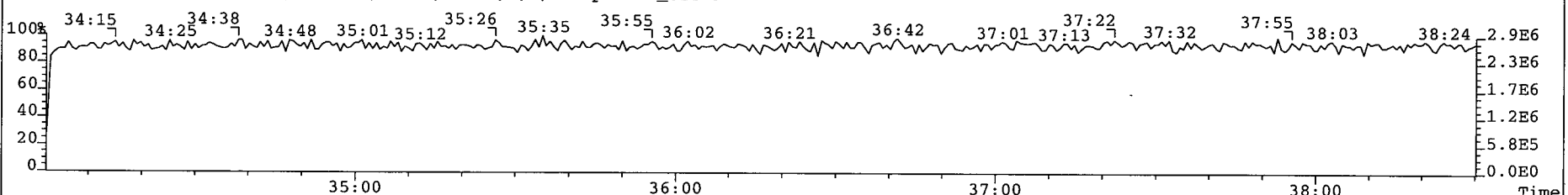
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 93



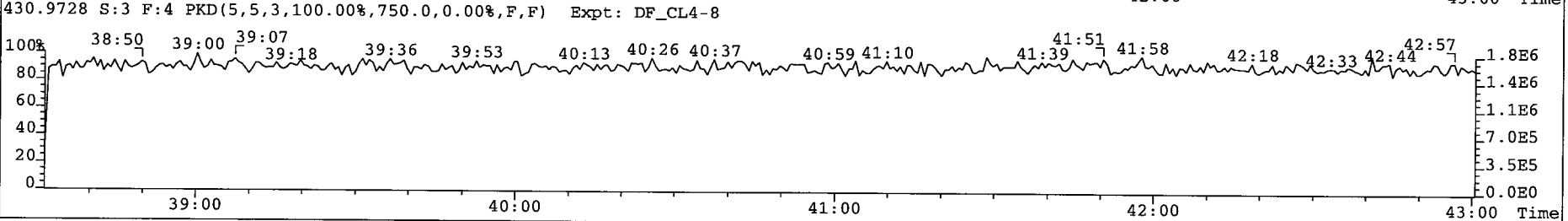
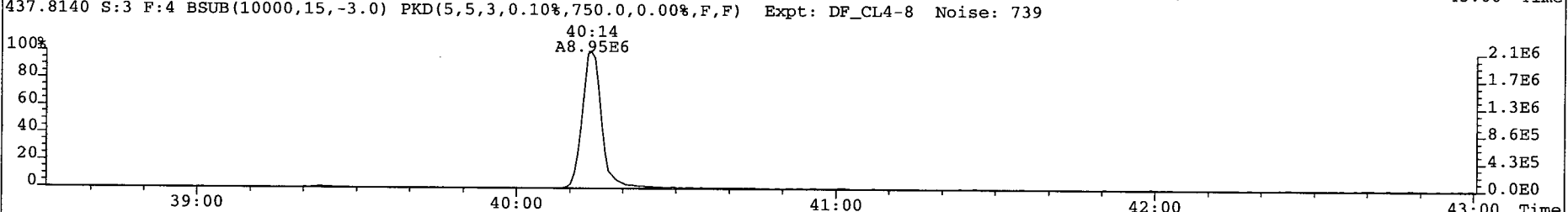
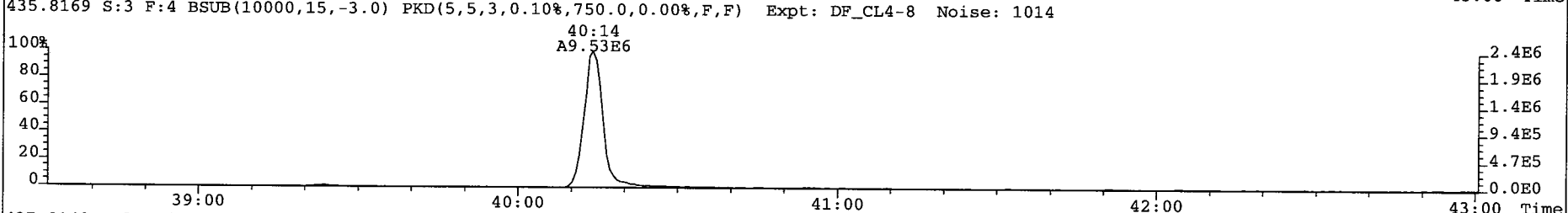
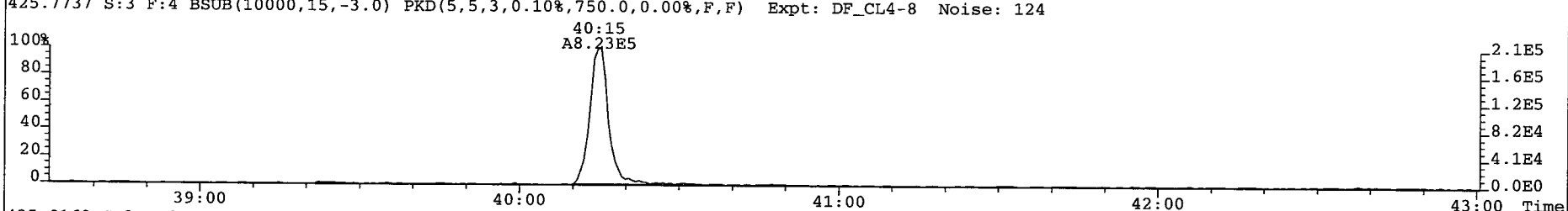
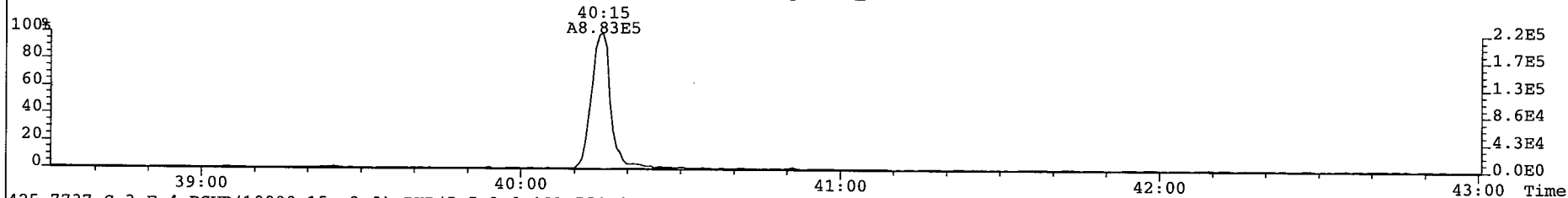
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 101



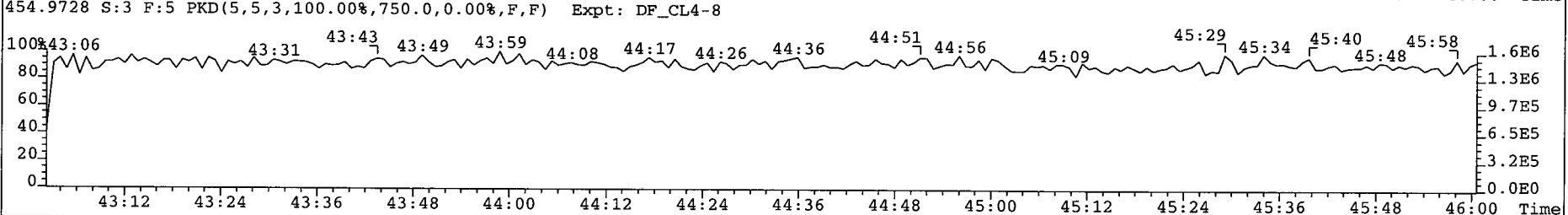
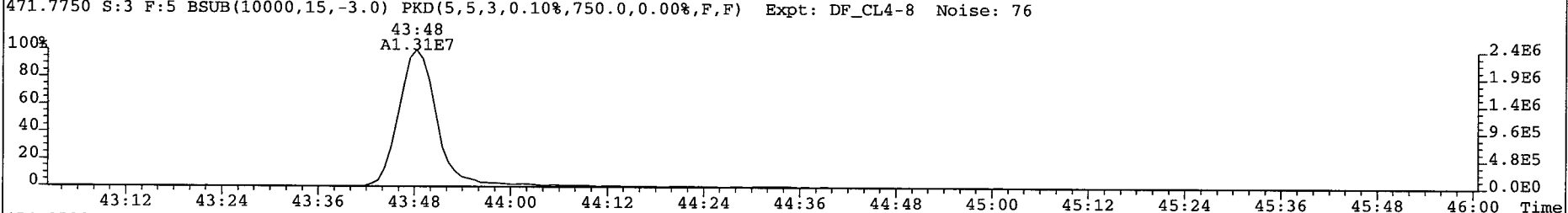
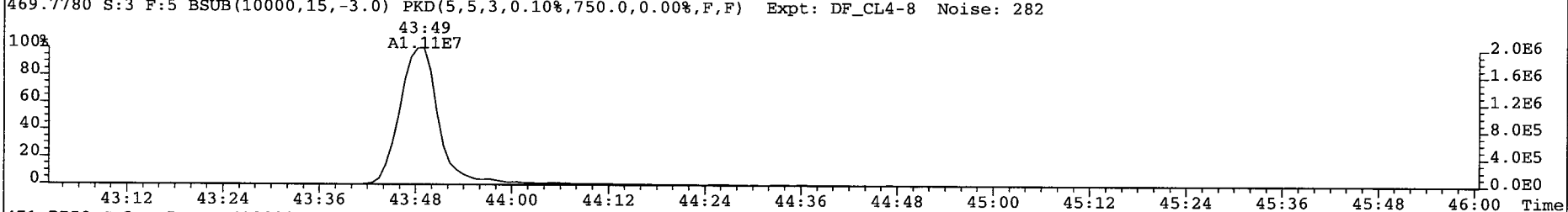
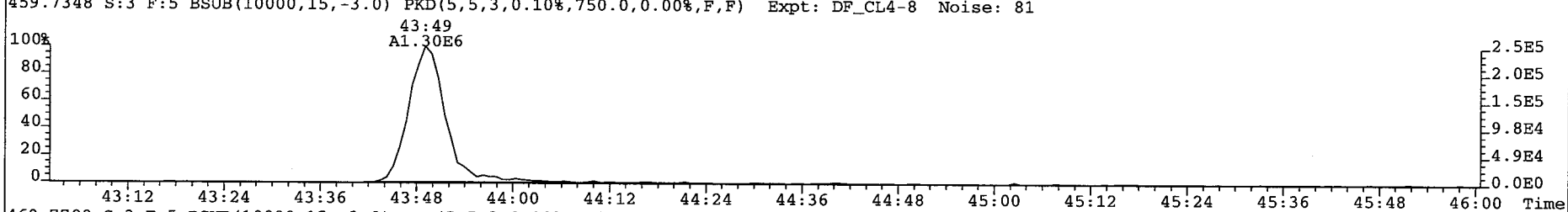
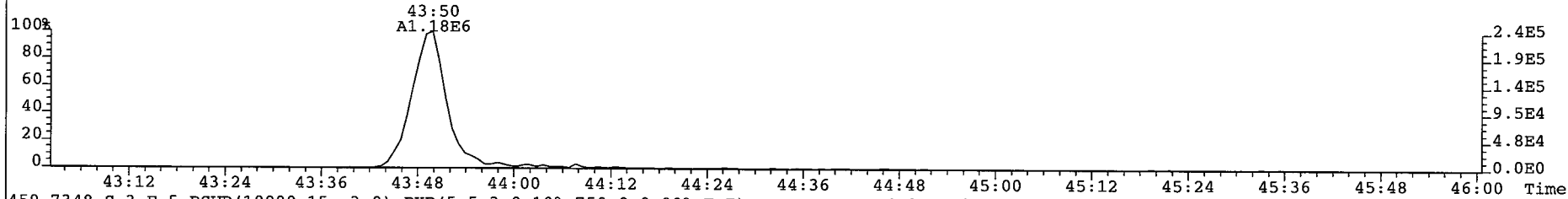
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 207



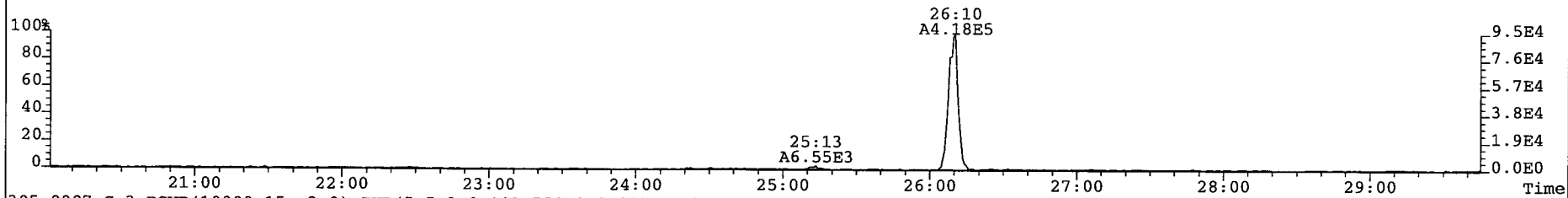
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 68



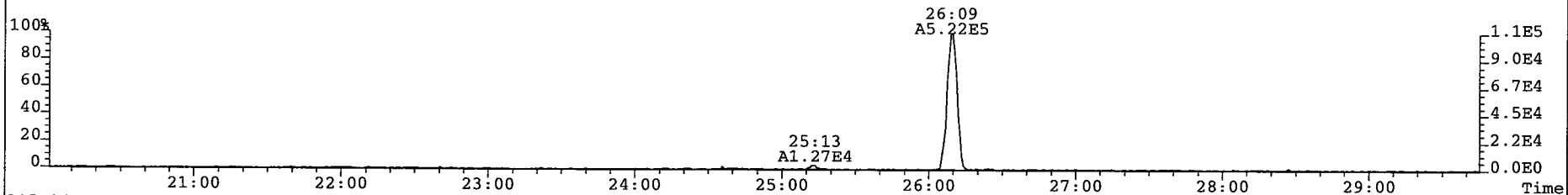
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

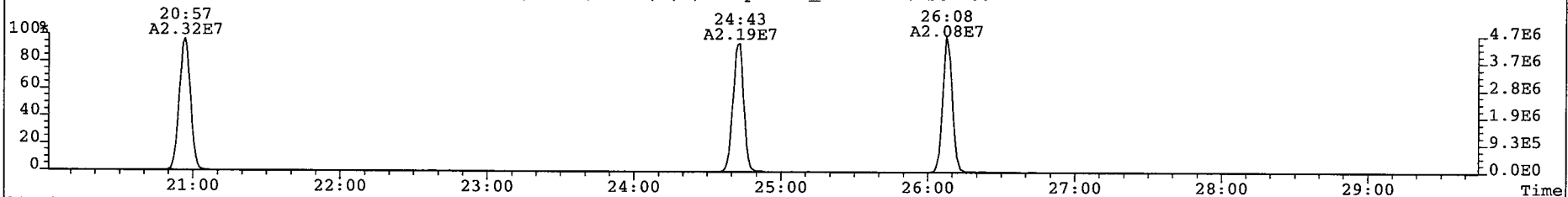
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 69



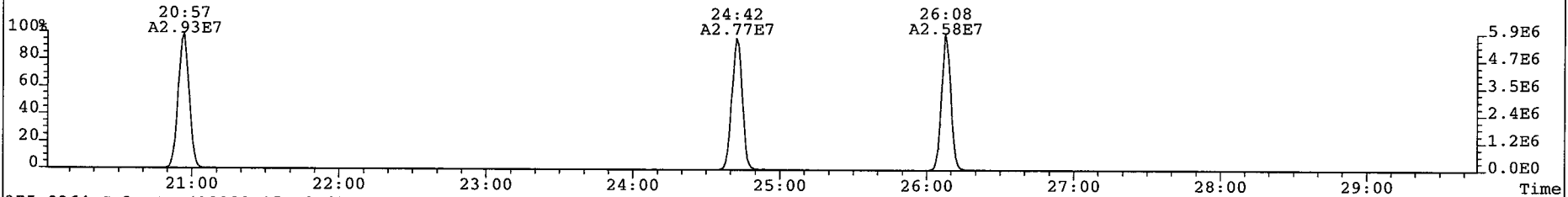
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 68



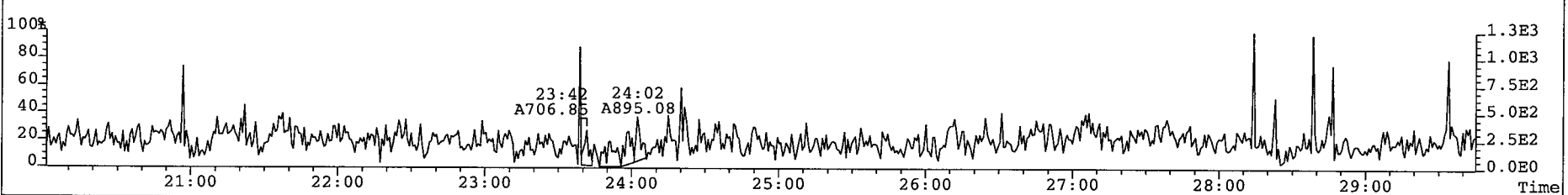
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86



317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



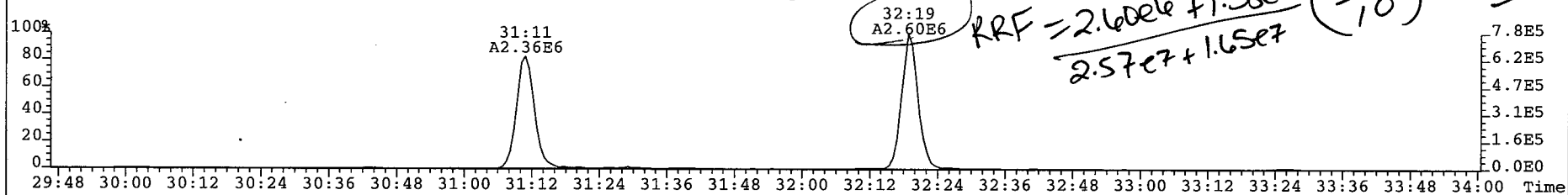
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 79



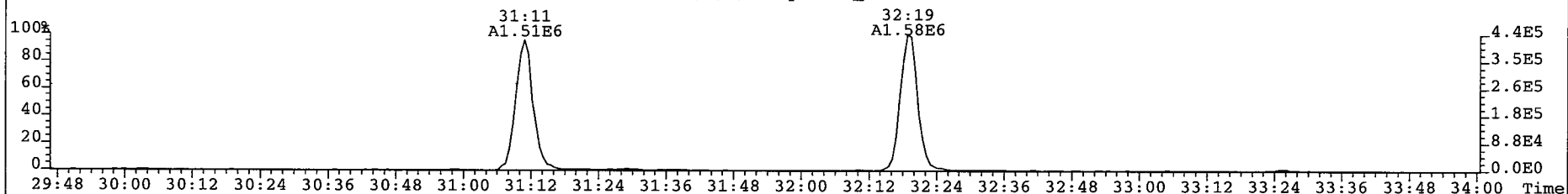
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

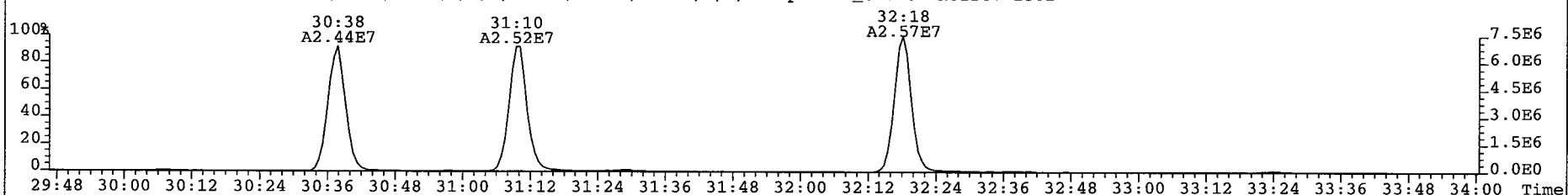
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 217



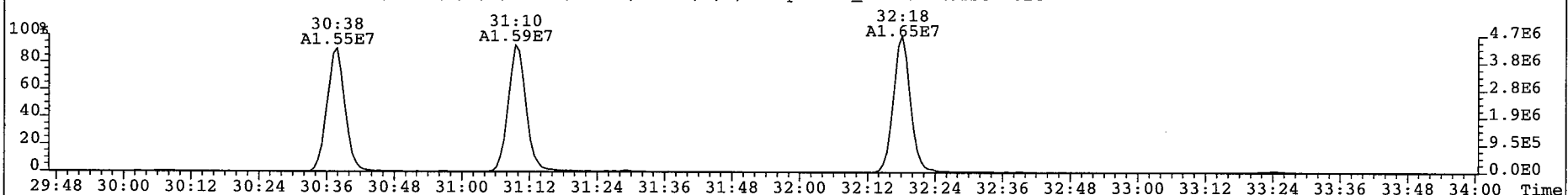
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78



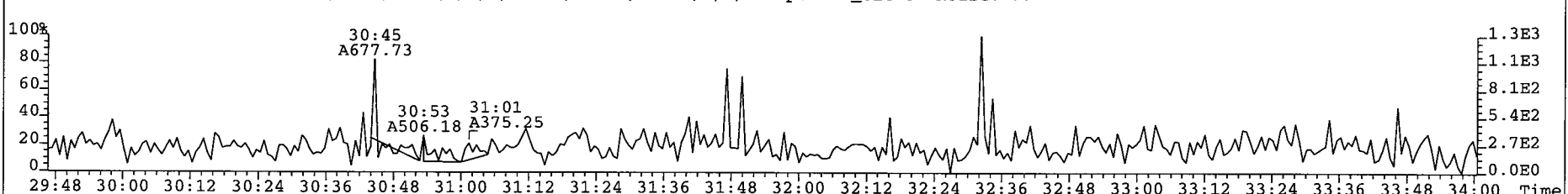
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1501



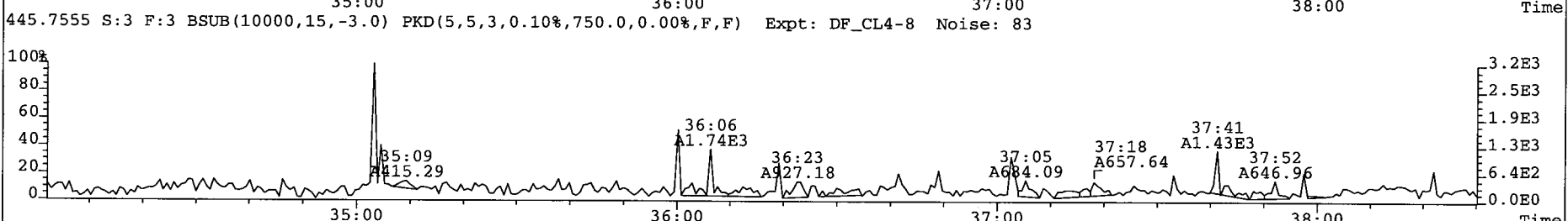
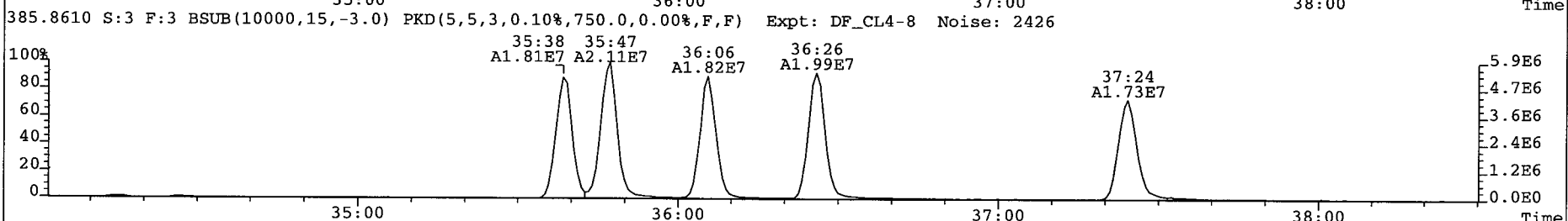
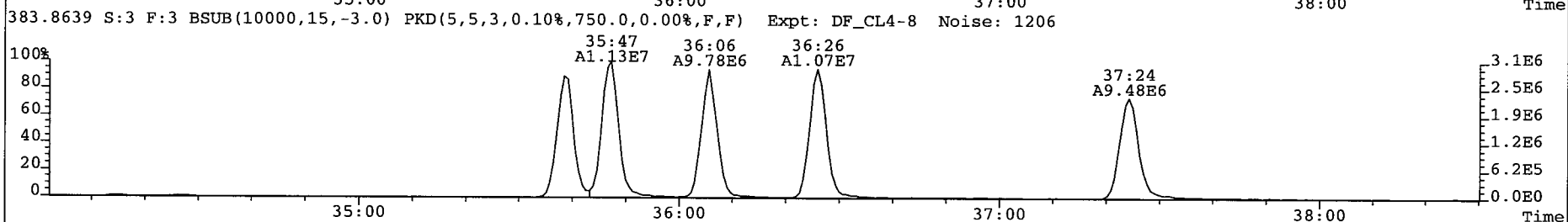
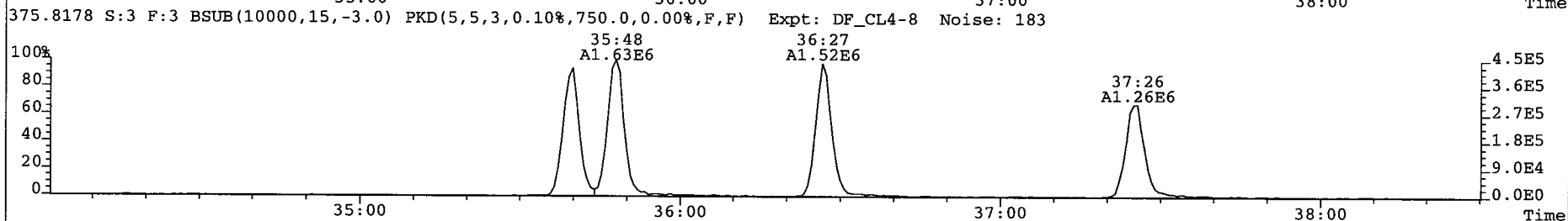
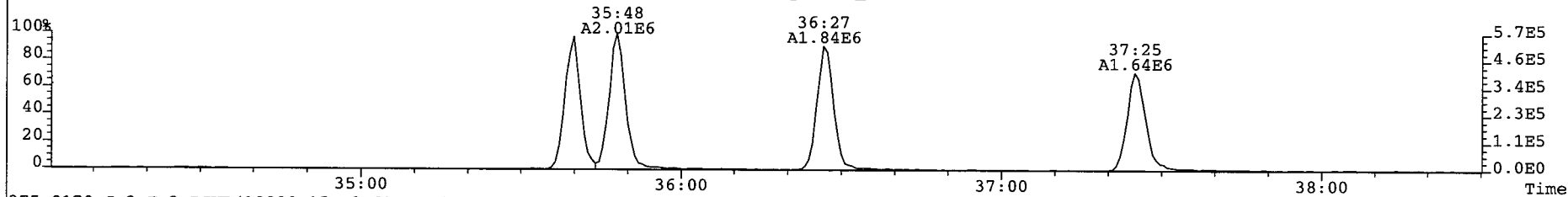
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 814



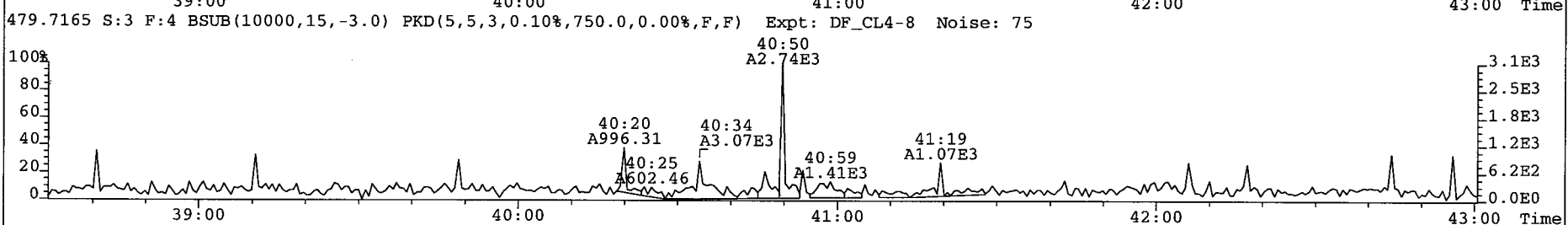
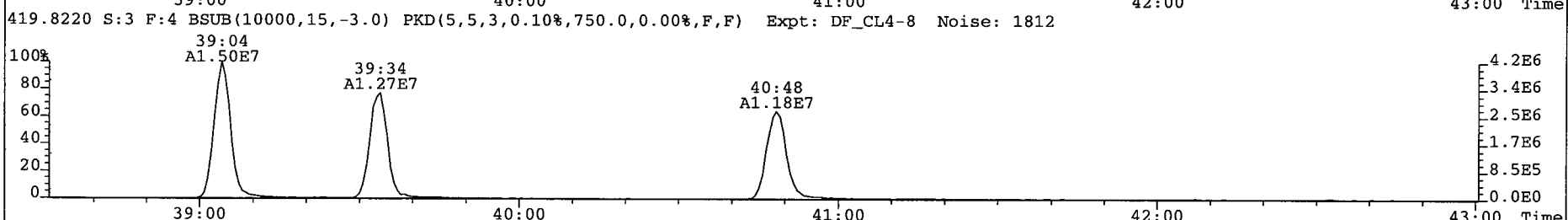
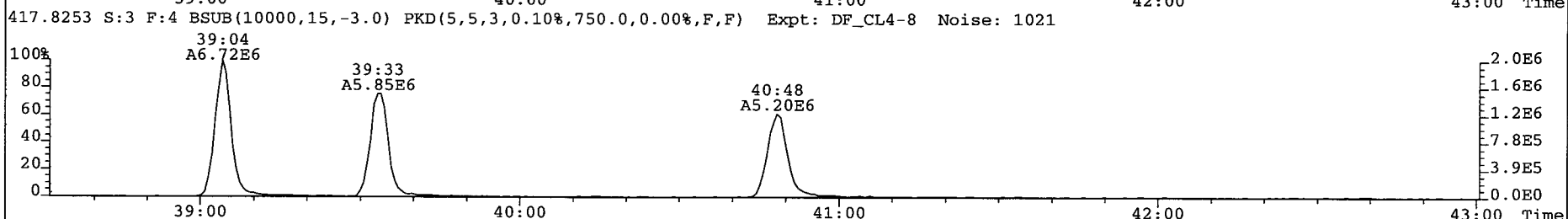
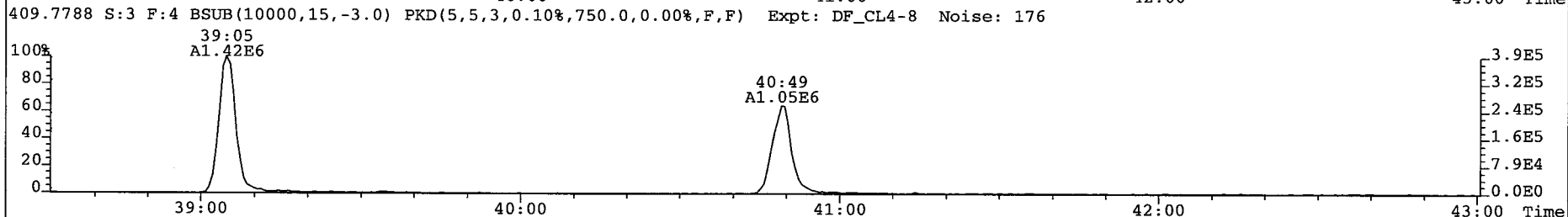
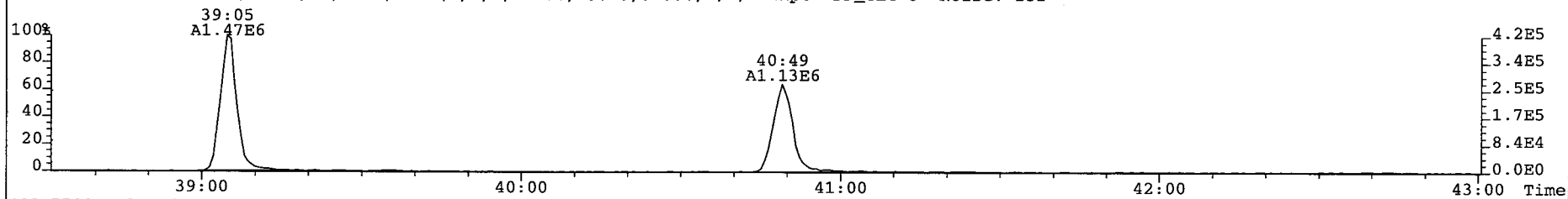
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



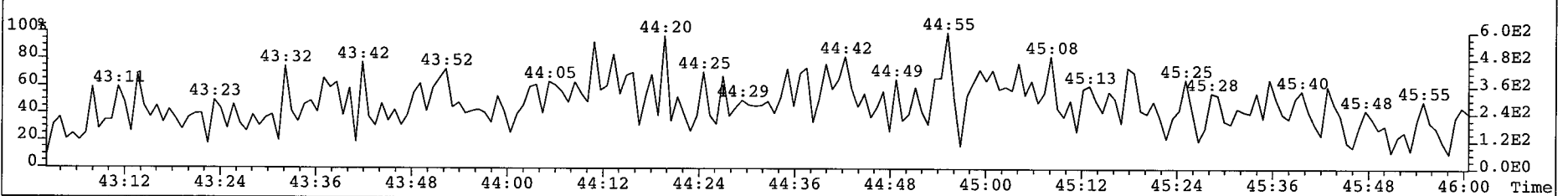
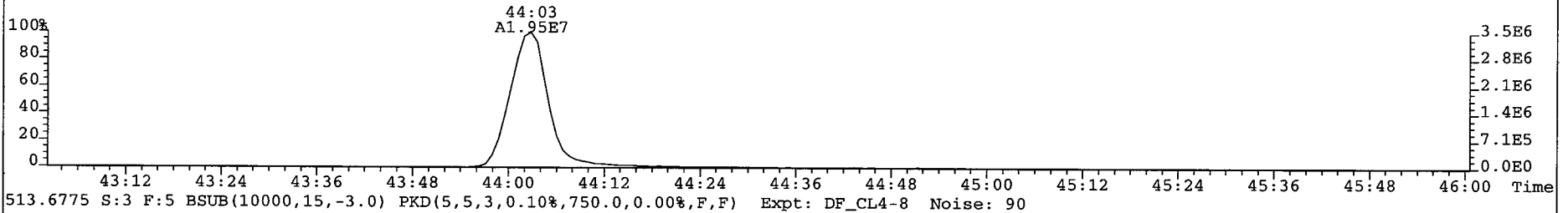
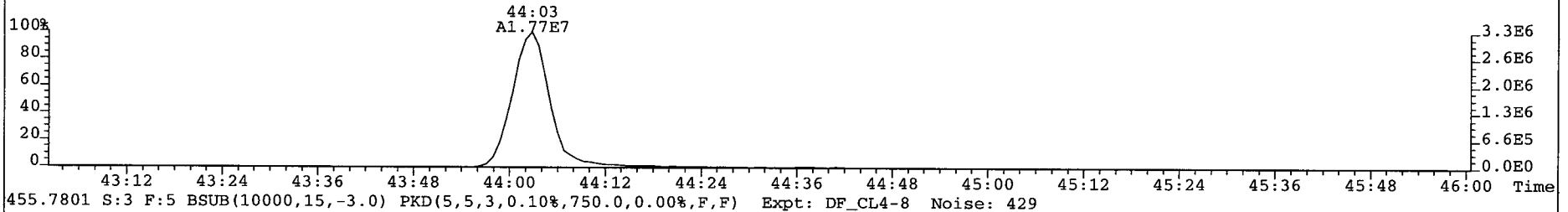
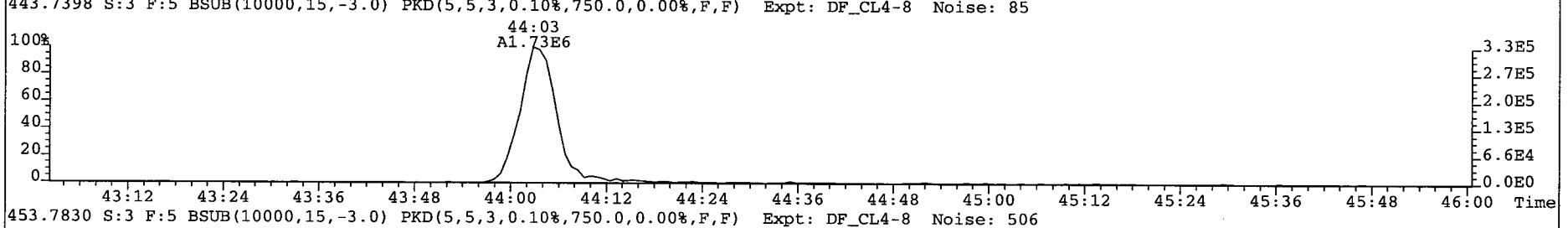
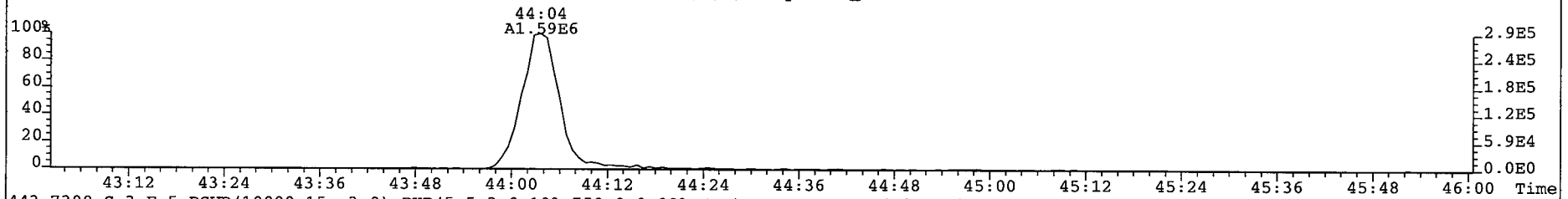
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 280



File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 232



File: 081225F1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
441.7428 S:3 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 71



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS3 ✓
 Lab ID: SIL7-25-4
 Sample text: SIL7-25-4 NEW ICAL CS3

Filename: 081225P1 S: 4 ✓ Acq: 25-DEC-08 12:42:45
 GC Column ID: db-5 ICal: MM1_DF_07012007A 25DEC08 Wt/Vol: 1.000
 Vial: 19

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	10.00	3.70e+06	0.77 y	27:06	-	1.08 ✓
2	Ax 1,2,3,7,8-PeCDD	50.00	1.36e+07	1.63 y	32:41	-	1.01
3	Ax 1,2,3,4,7,8-HxCDD	50.00	1.20e+07	1.26 y	36:38	-	1.11
4	Ax 1,2,3,6,7,8-HxCDD	50.00	1.19e+07	1.26 y	36:45	-	0.96 ✓
5	Ax 1,2,3,7,8,9-HxCDD	50.00	1.25e+07	1.26 y	37:03	-	1.02
6	Ax 1,2,3,4,6,7,8-HpCDD	50.00	9.64e+06	1.06 y	40:15	-	0.96
7	Ax OCDD	100.00	1.36e+07	0.87 y	43:49	-	1.04 ✓
8	Ax2 OCDD-a	100.00	7.50e+05	2.85 y	43:49	-	0.06 ✓
9	Ax 2,3,7,8-TCDF	10.00	5.40e+06	0.78 y	26:09	-	1.03 ✓
10	Ax 1,2,3,7,8-PeCDF	50.00	2.20e+07	1.59 y	31:11	-	0.98
11	Ax 2,3,4,7,8-PeCDF	50.00	2.35e+07	1.57 y	32:19	-	1.03
12	Ax 1,2,3,4,7,8-HxCDF	50.00	1.85e+07	1.26 y	35:40	-	1.23 ✓
13	Ax 1,2,3,6,7,8-HxCDF	50.00	2.09e+07	1.25 y	35:48	-	1.17
14	Ax 2,3,4,6,7,8-HxCDF	50.00	1.89e+07	1.27 y	36:27	-	1.13
15	Ax 1,2,3,7,8,9-HxCDF	50.00	1.63e+07	1.25 y	37:26	-	1.13 ✓
16	Ax 1,2,3,4,6,7,8-HpCDF	50.00	1.62e+07	1.04 y	39:05	-	1.37
17	Ax 1,2,3,4,7,8,9-HpCDF	50.00	1.24e+07	1.04 y	40:50	-	1.37
18	Ax OCDF	100.00	1.91e+07	0.93 y	44:04	-	0.94 ✓
19	Ax2 OCDF-a	100.00	9.58e+05	2.92 n	44:04	-	0.05
20	ES 13C-2,3,7,8-TCDD	100.00	3.42e+07	0.81 y	27:04	-	0.98 ✓
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.70e+07	1.61 y	32:40	-	0.77
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.18e+07	1.29 y	36:37	-	1.01
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.49e+07	1.28 y	36:44	-	1.15 ✓
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.44e+07	1.28 y	37:02	-	1.13
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.00e+07	1.10 y	40:15	-	0.93 ✓
26	ES 13C-OCDD	200.00	2.61e+07	0.86 y	43:49	-	0.60 ✓
27	ES 13C-2,3,7,8-TCDF	100.00	5.24e+07	0.80 y	26:08	-	0.95 ✓
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.49e+07	1.58 y	31:10	-	0.81
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.59e+07	1.58 y	32:18	-	0.83
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.01e+07	0.54 y	35:39	-	1.39 ✓
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.56e+07	0.54 y	35:47	-	1.65
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.34e+07	0.54 y	36:26	-	1.55
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.87e+07	0.55 y	37:25	-	1.33
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.36e+07	0.45 y	39:04	-	1.09
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.82e+07	0.47 y	40:49	-	0.84
36	ES 13C-OCDF	200.00	4.06e+07	0.92 y	44:03	-	0.94 ✓
37	CS 37C1-2,3,7,8-TCDD	10.00	3.40e+06		27:06	-	0.97 ✓
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.57e+07	1.65 y	32:09	-	0.74
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.27e+07	1.56 y	30:37	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	2.92e+07	0.54 y	36:06	-	1.35
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	1.83e+07	0.45 y	39:34	-	0.85 ✓
42	NA n/a	100.00	*	* n	NotF>>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.50e+07	0.83 y	26:24	3.50e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	5.53e+07	0.78 y	24:42	5.53e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.08e+07	1.27 y	36:56	2.16e+05	-

10ppb

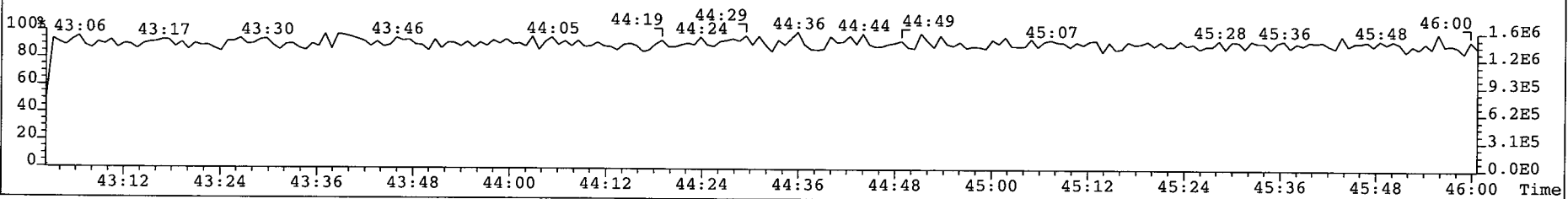
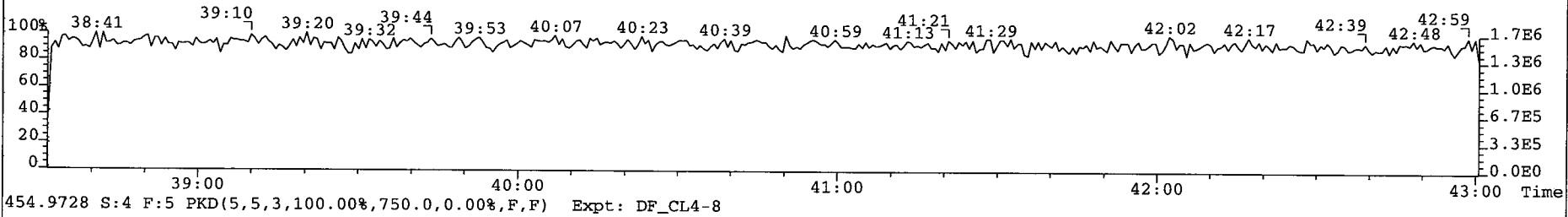
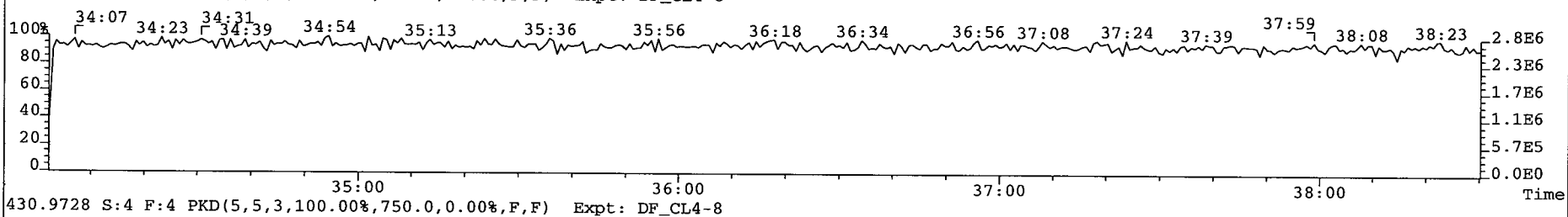
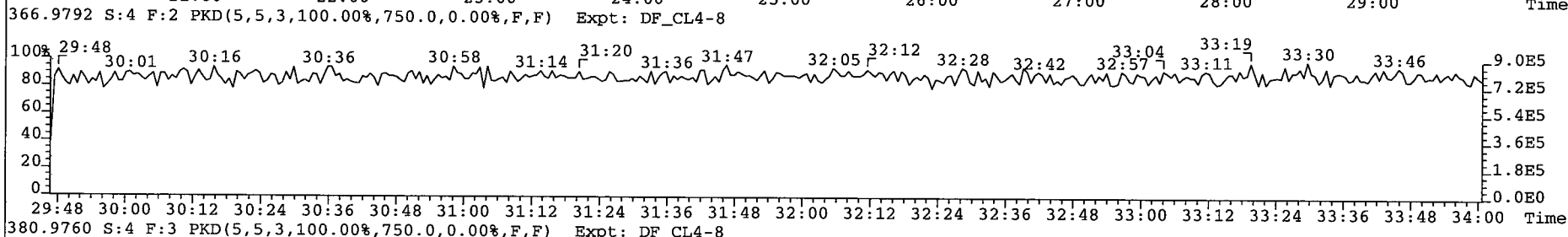
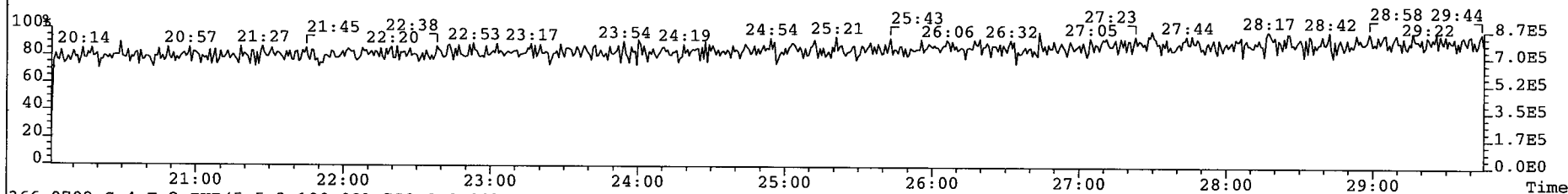
calc.

calc.

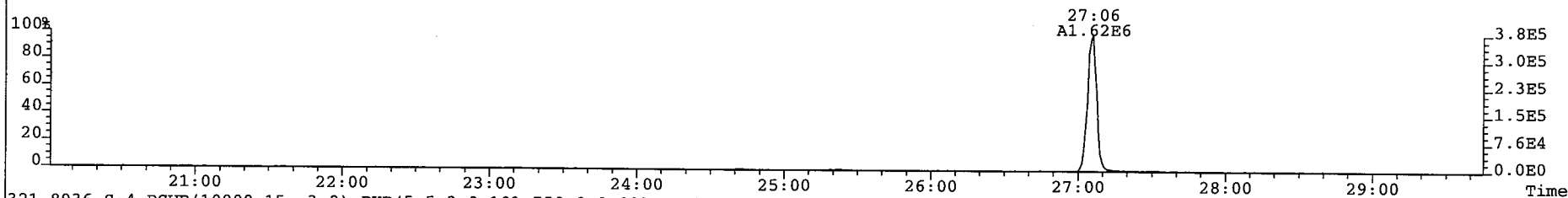
Analyst: [Signature]
 Date: 25/12/08

46	SS	37Cl-2,3,7,8-TCDD	10.00	3.40e+06		27:06	-	1.00 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.57e+07	1.65 y	32:09	-	0.95
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.27e+07	1.56 y	30:37	-	0.95 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.92e+07	0.54 y	36:06	-	0.82
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.83e+07	0.45 y	39:34	-	0.77 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.08 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.08
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.08
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.01
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.01
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.03 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.96
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.00
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.17 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.08
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.01
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.03
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.96
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.00
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.17
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.37
73	Tot	TCDD EMPC	-	-	- n	-	-	1.08
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.01
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.03
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.96
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.00
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.17
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.37
81	AS	13C-1,3,6,8-TCDD	100.00	3.85e+07	0.81 y	23:08	-	1.10
82	AS	13C-1,3,6,8-TCDF	100.00	6.10e+07	0.79 y	20:56	-	1.10 ✓
83	DPE	HxCDPE	-	3.97e+04		20:57	-	-
84	DPE	HpCDPE	-	3.73e+03		30:59	-	-
85	DPE	OCDF	-	1.15e+04		34:34	-	-
86	DPE	NCDPE	-	*		NotF>	-	-
87	DPE	DCDF	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

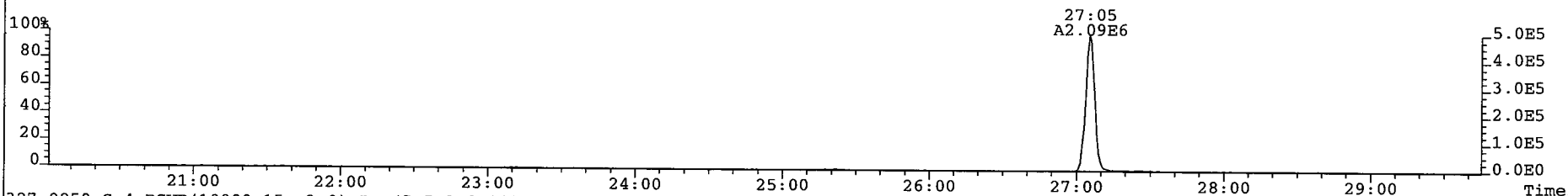
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



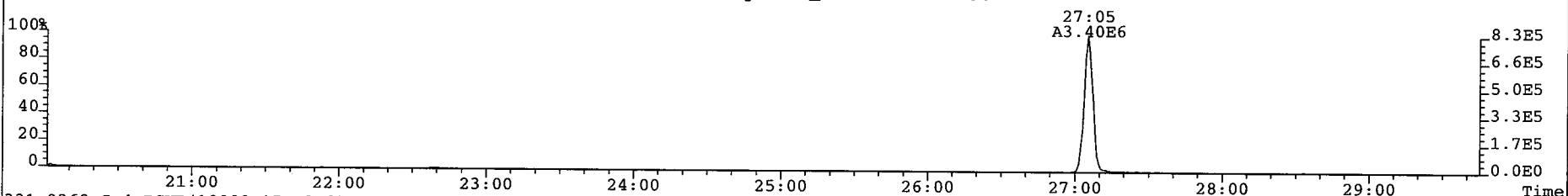
File: 081225F1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



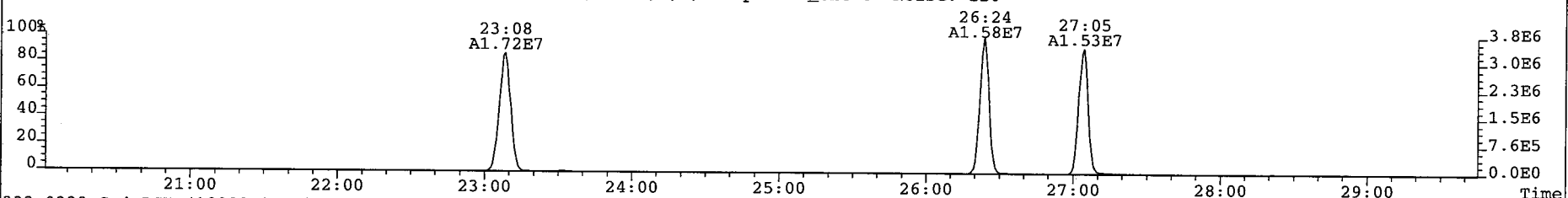
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 100



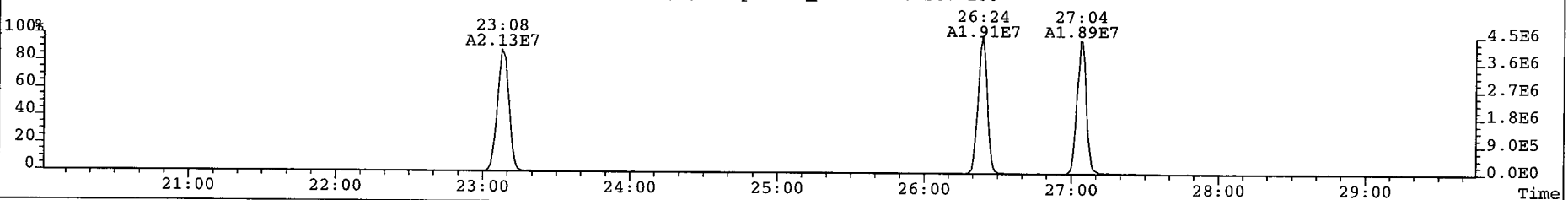
327.8850 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 98



331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 110



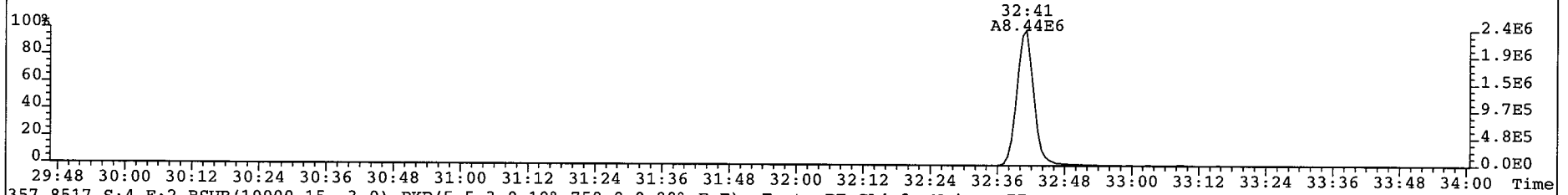
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 108



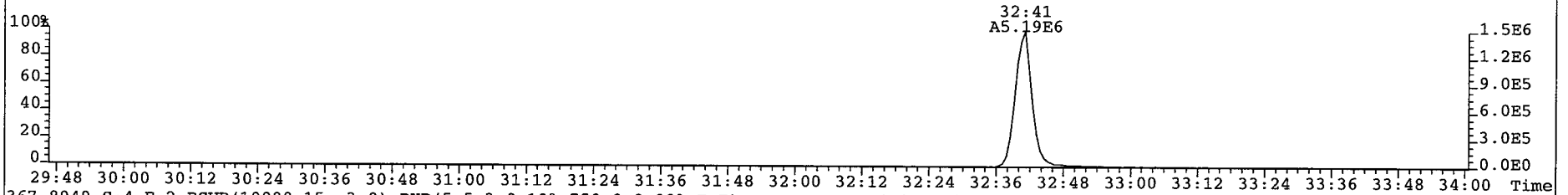
File: 081225PI Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

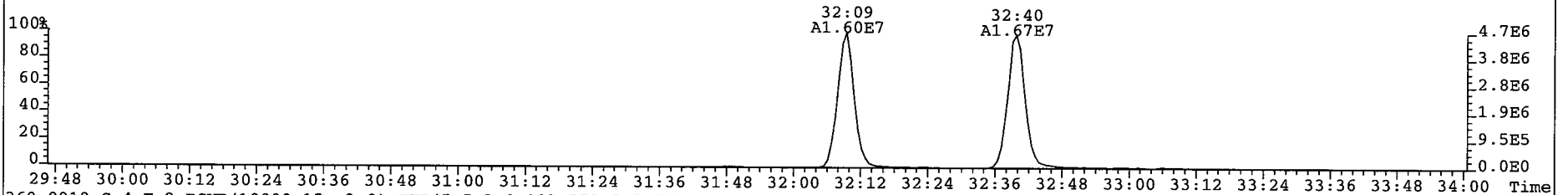
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



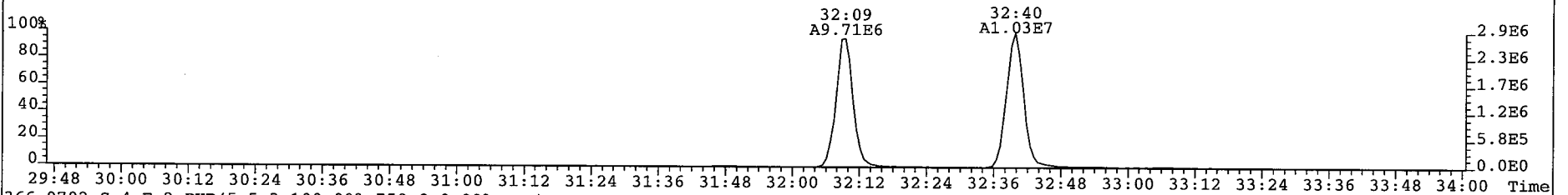
357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



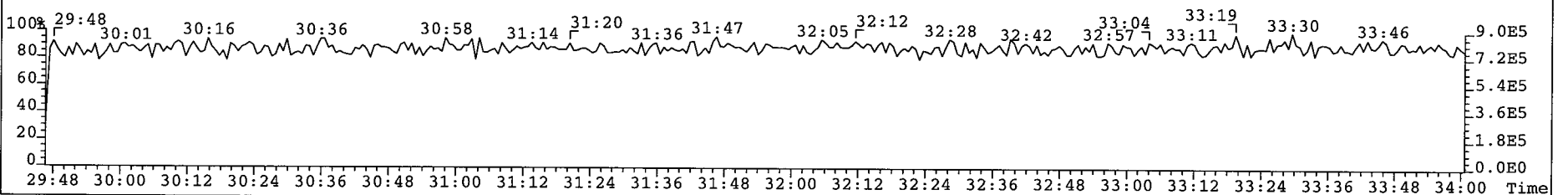
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86



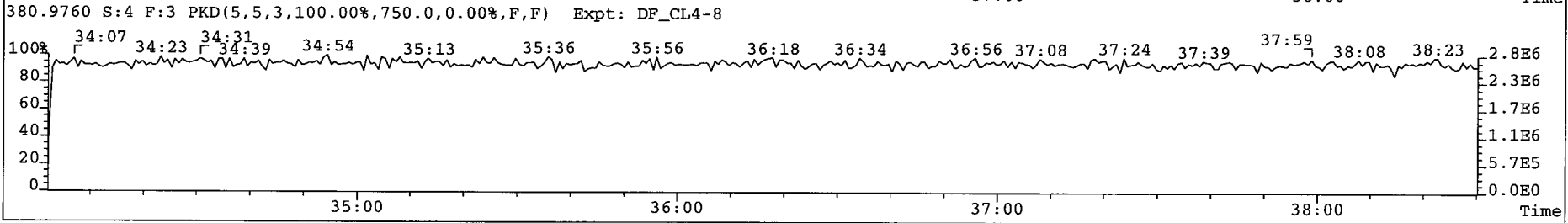
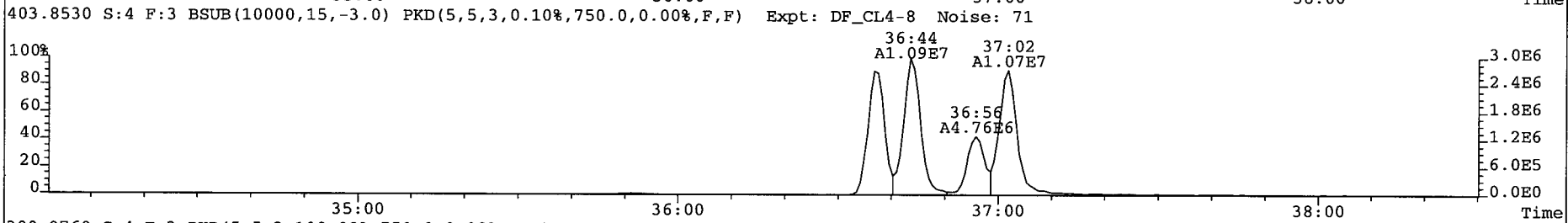
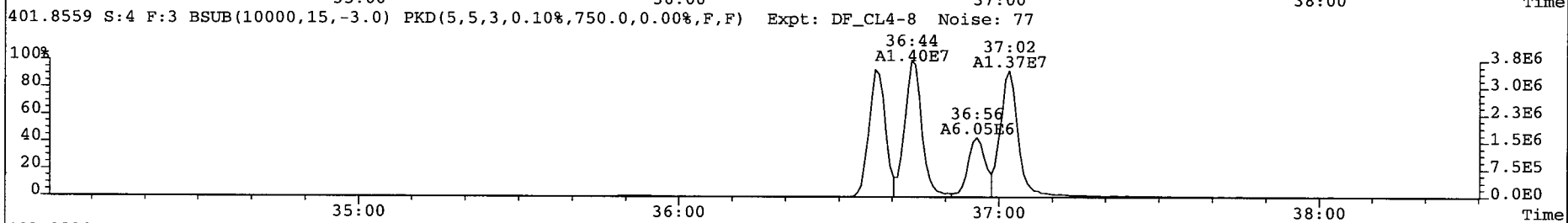
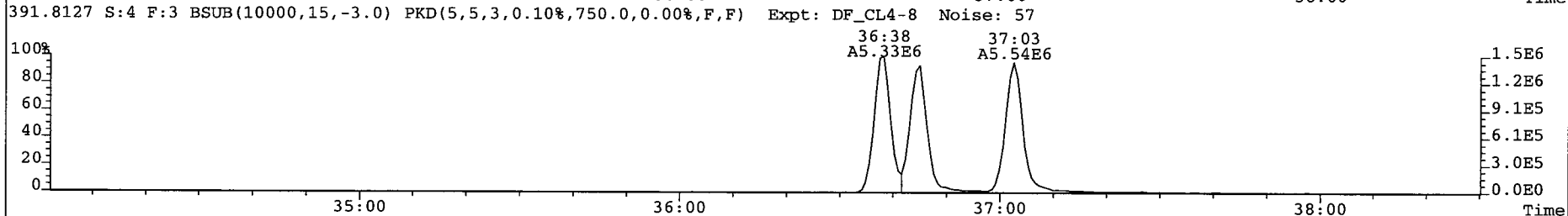
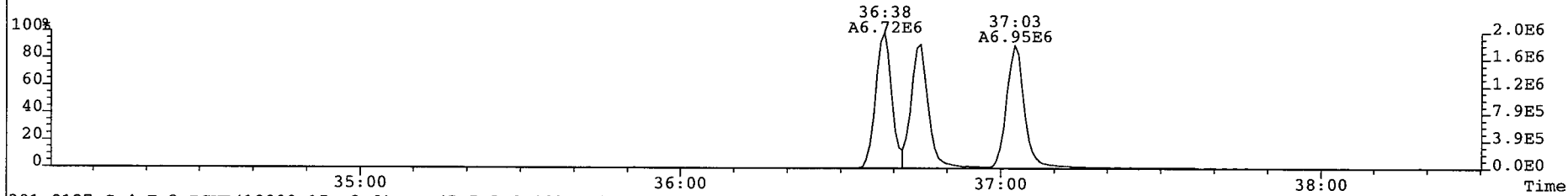
369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72



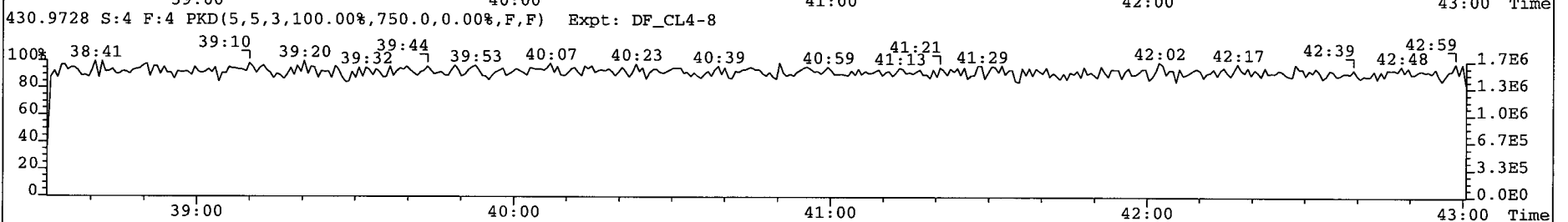
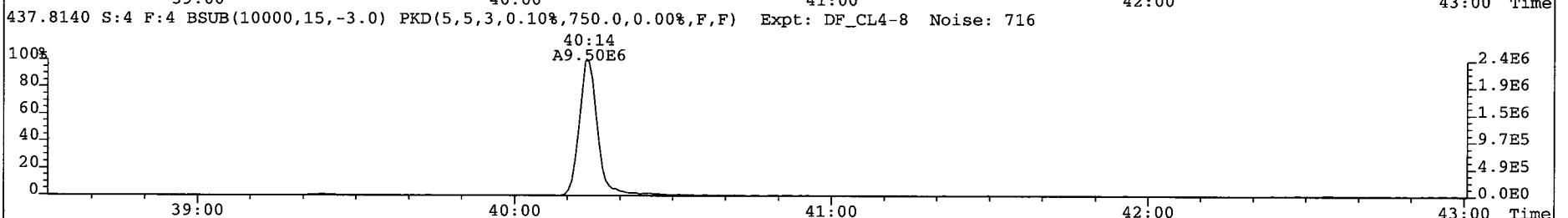
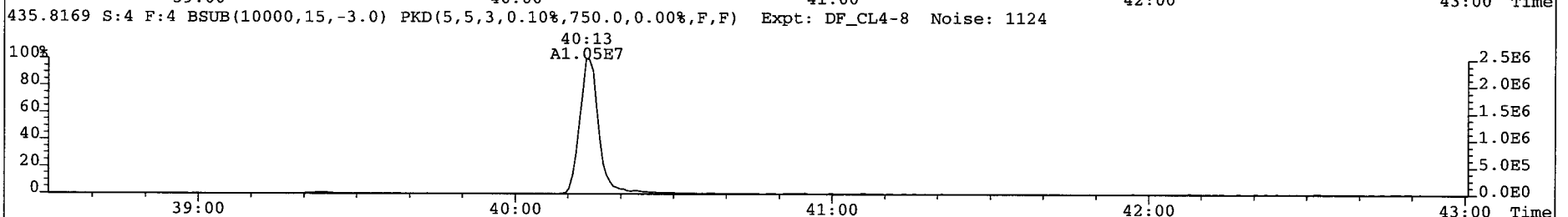
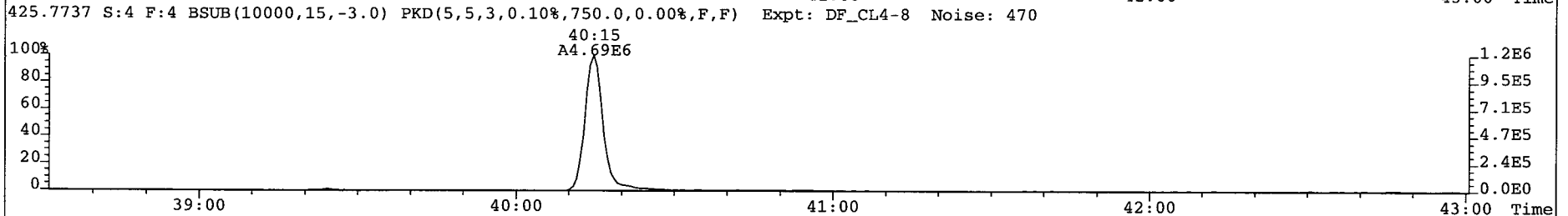
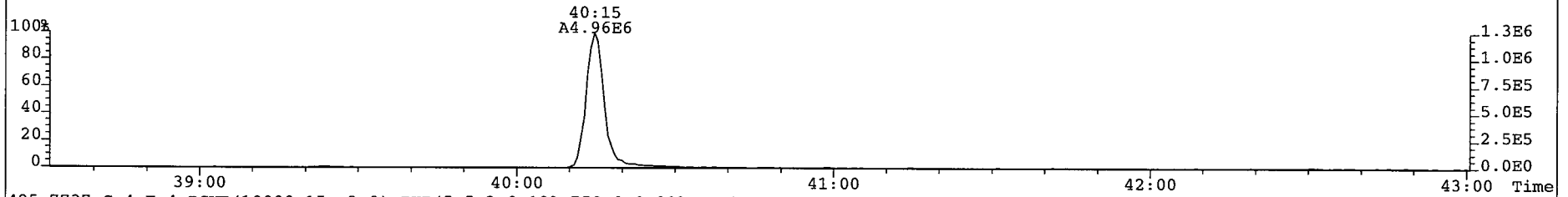
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



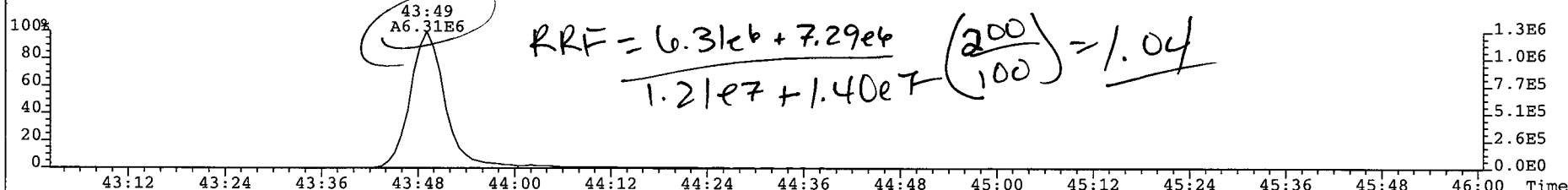
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 57



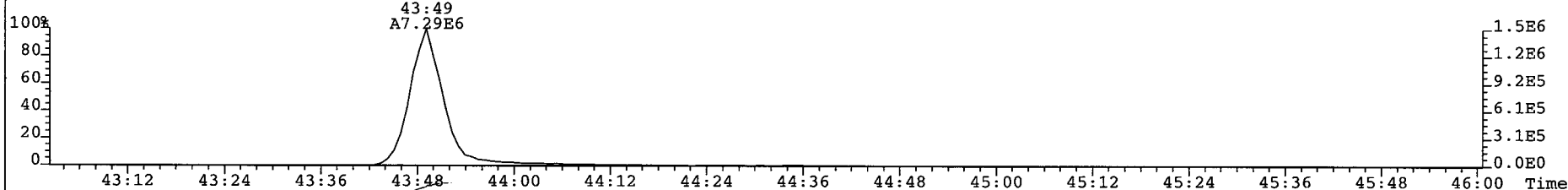
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 543



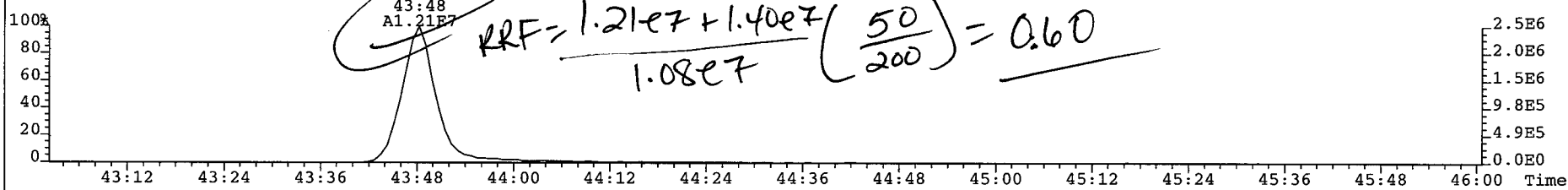
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 151



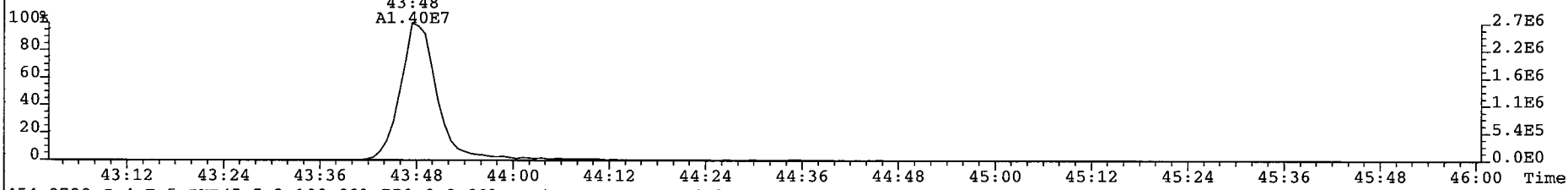
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 414



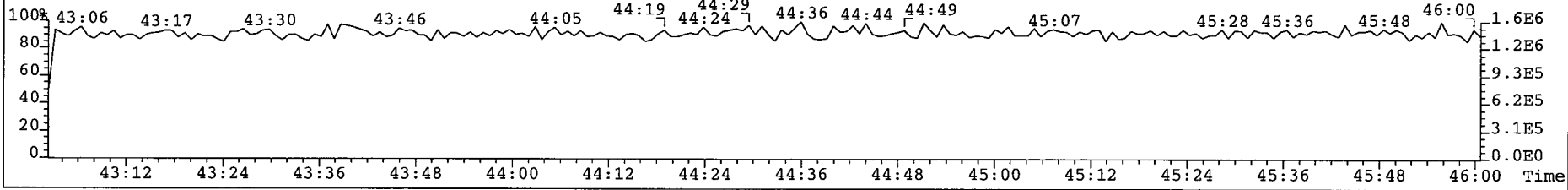
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 391



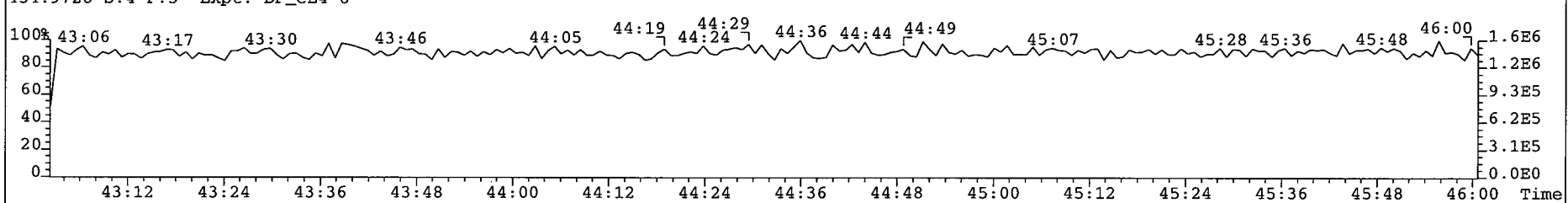
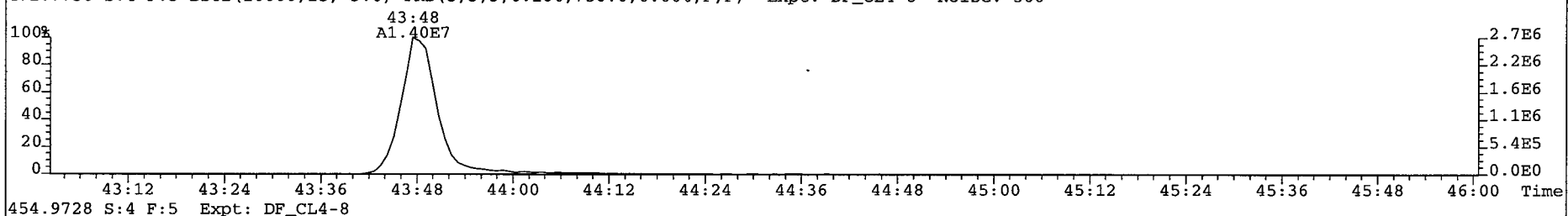
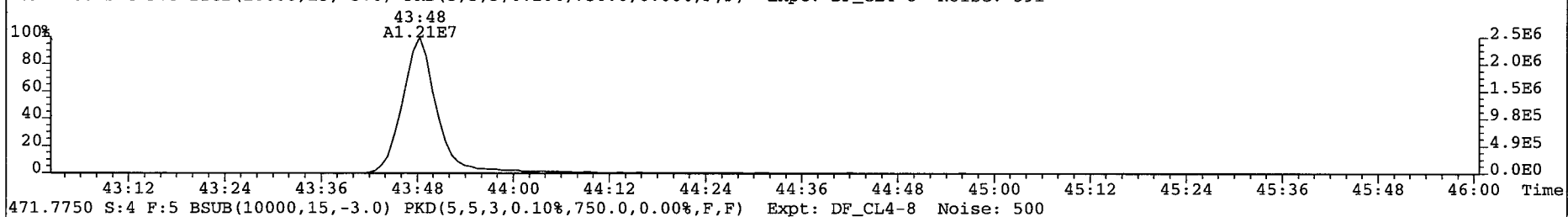
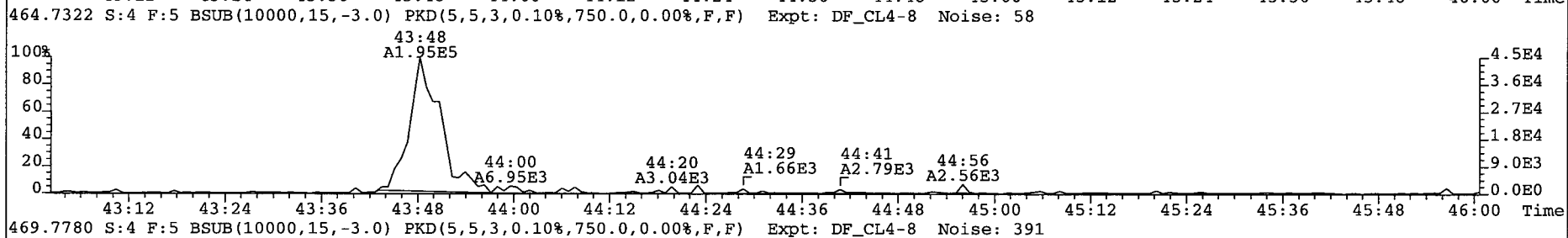
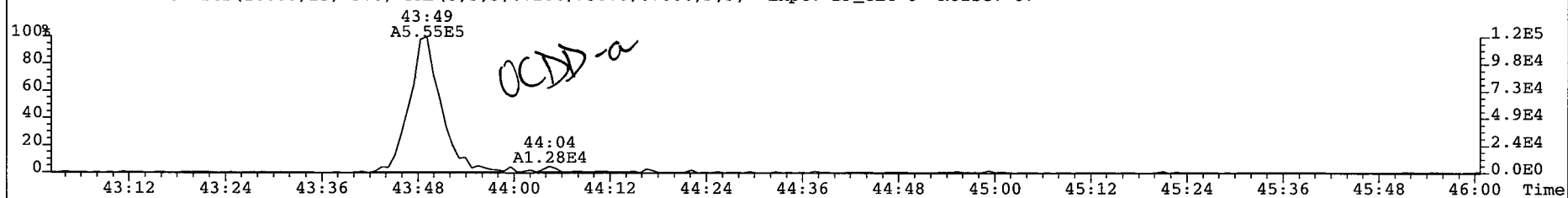
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 500



454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



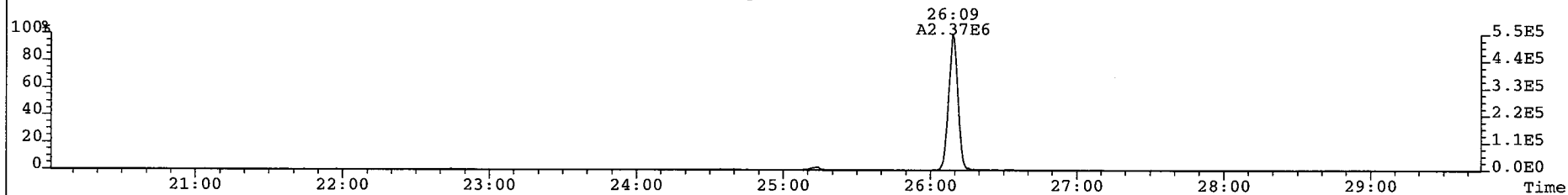
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
462.7352 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 87



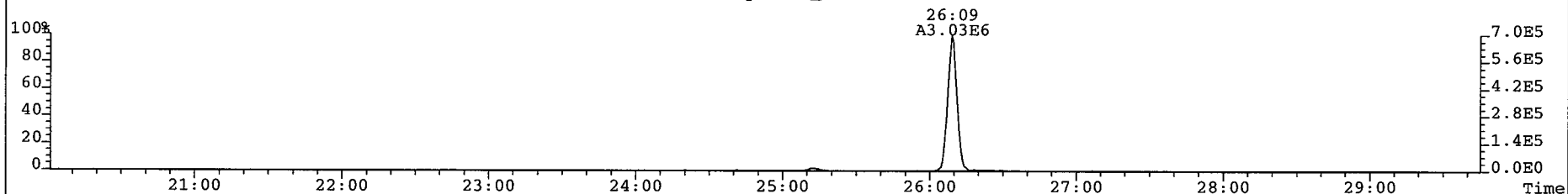
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

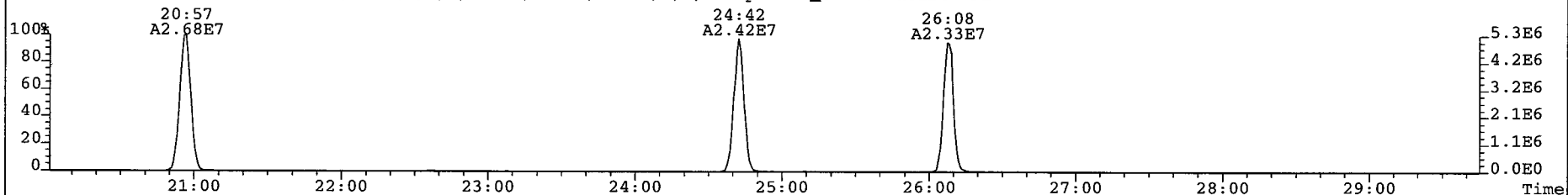
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



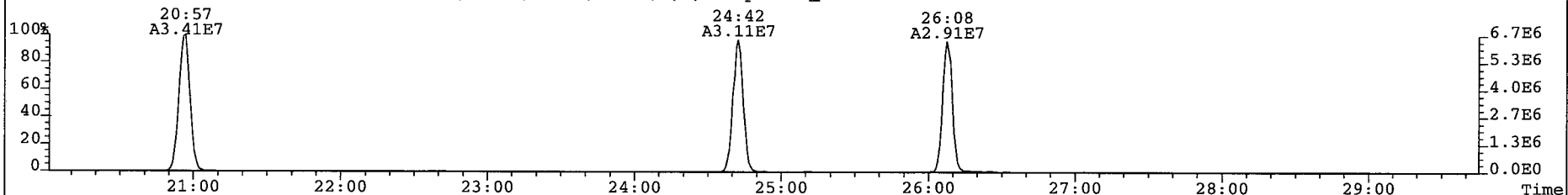
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 96



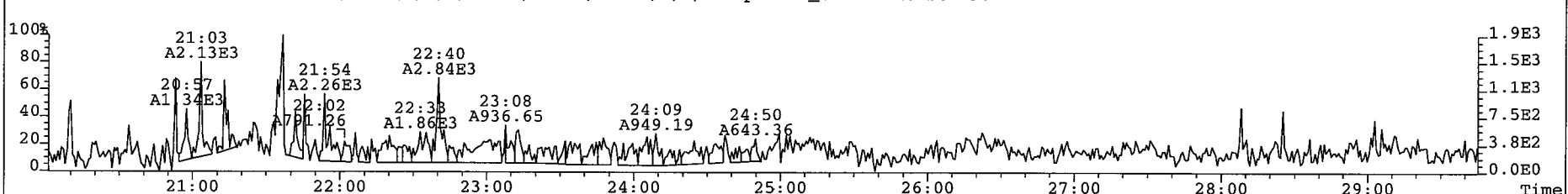
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 92

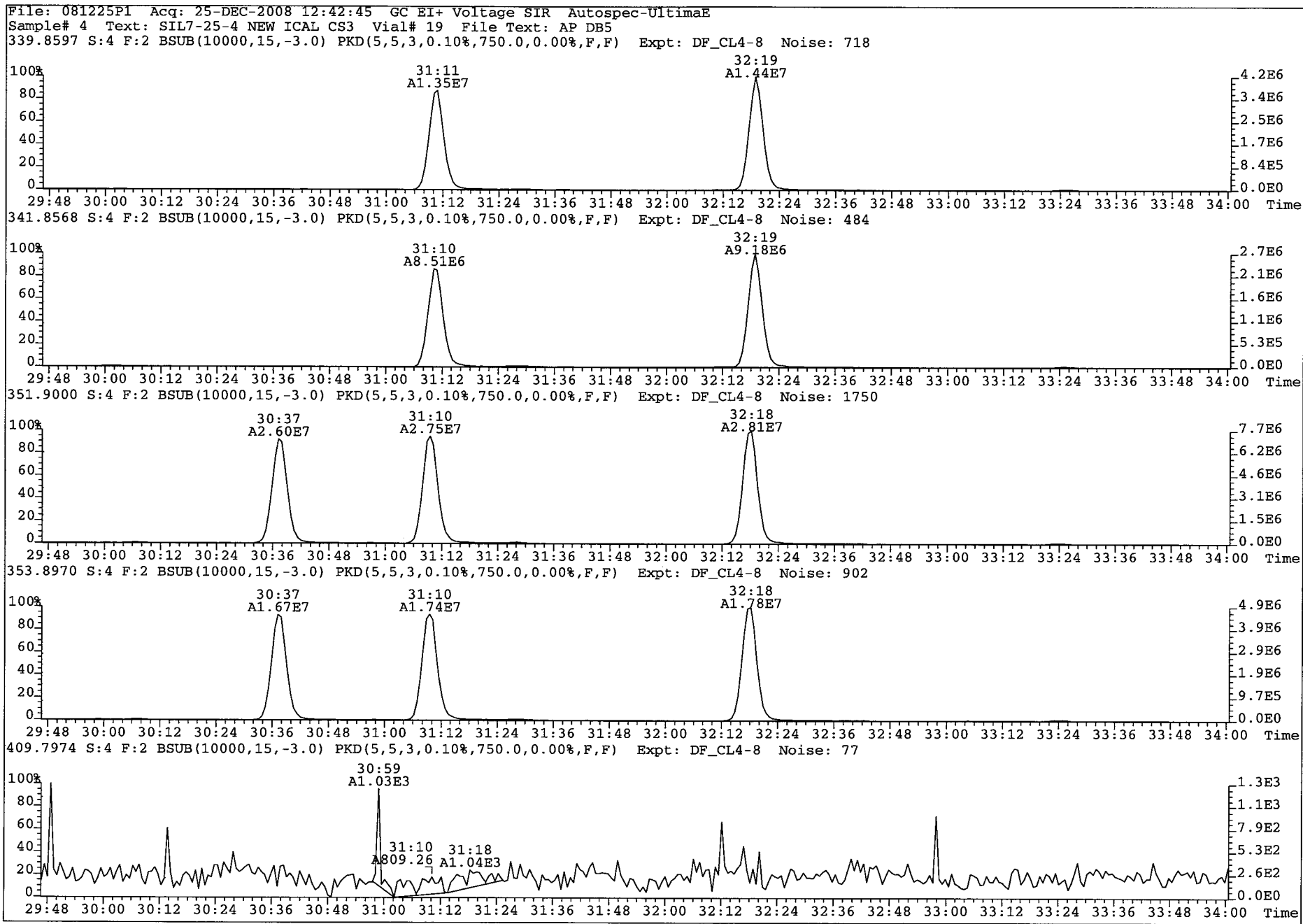


317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 100

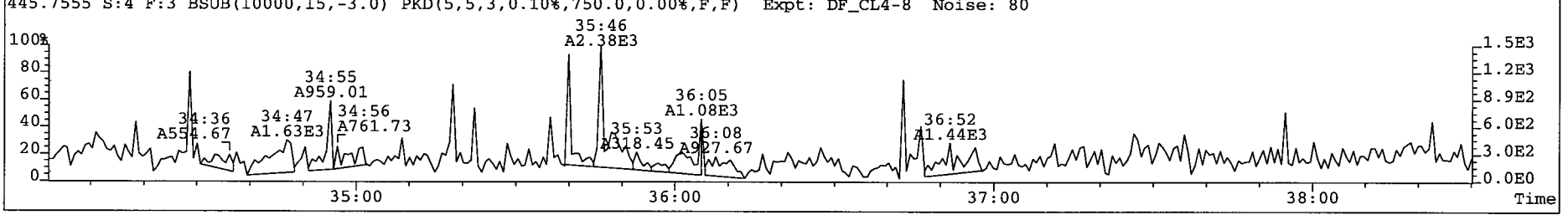
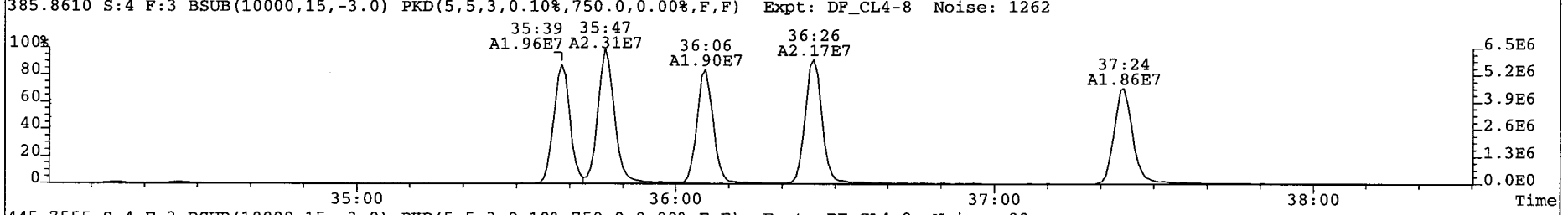
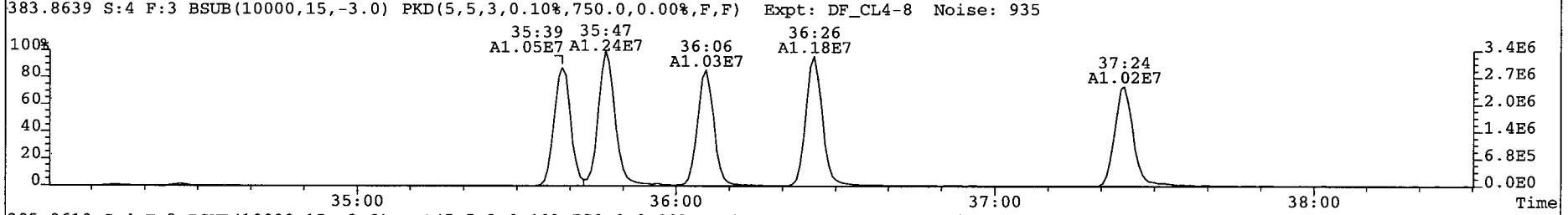
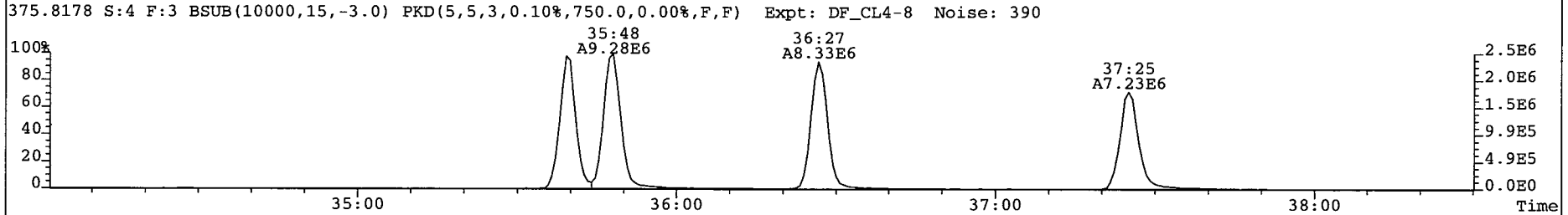
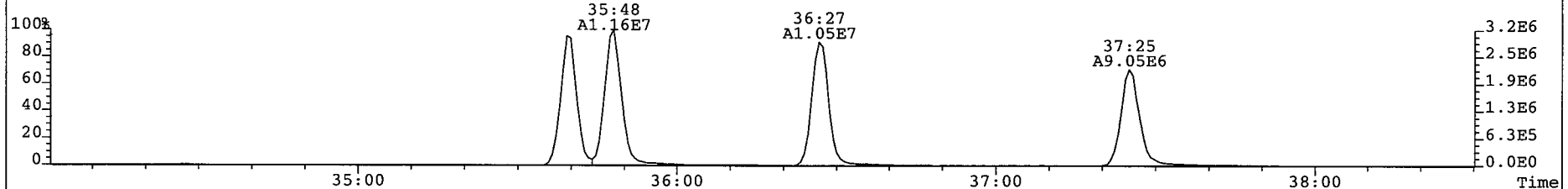


375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 96

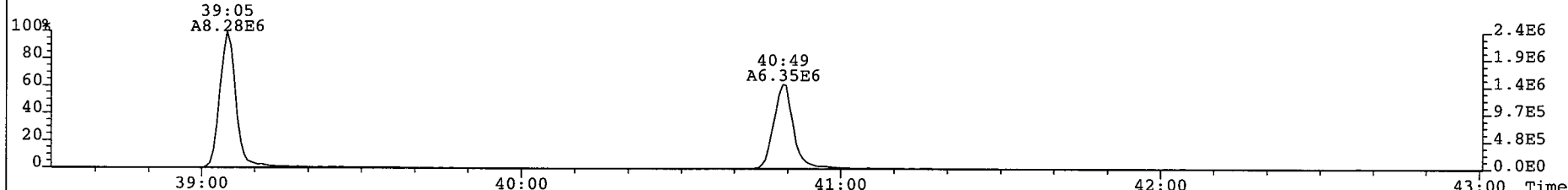




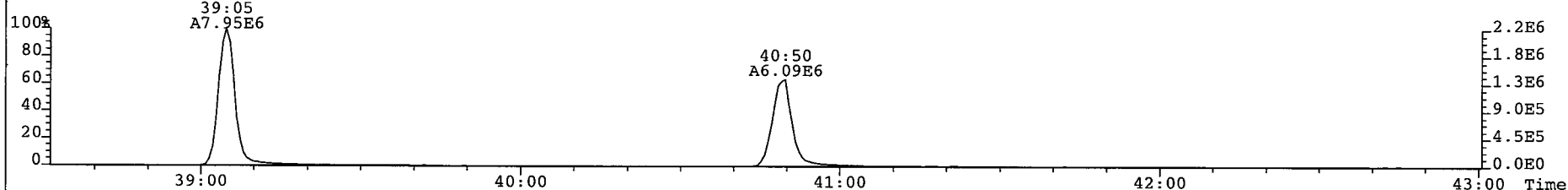
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 490



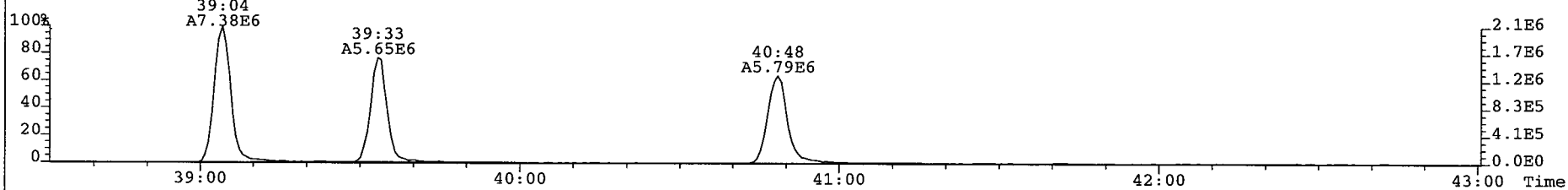
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 787



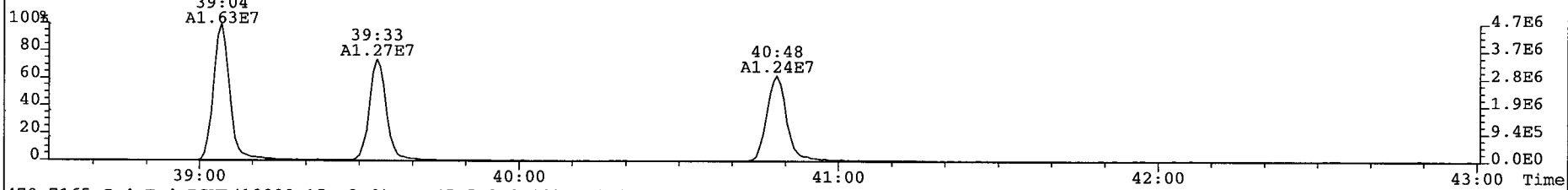
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 628



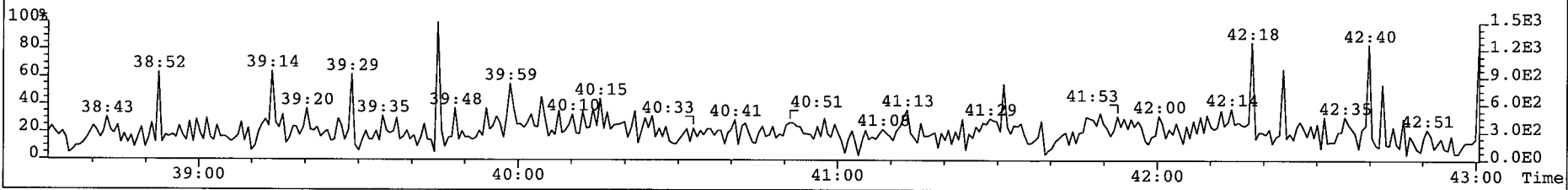
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1081



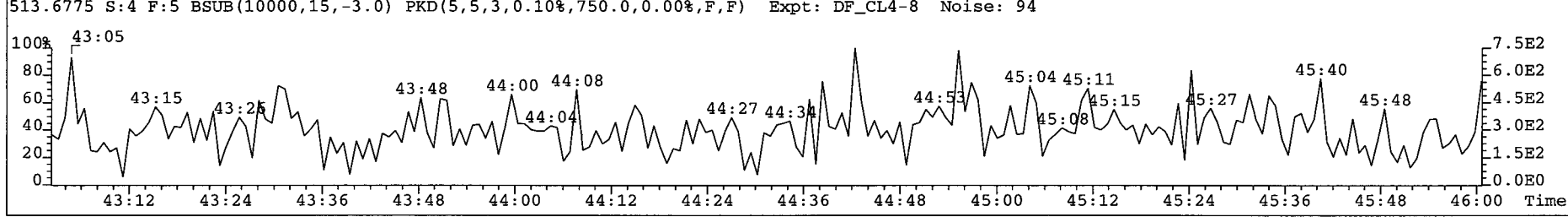
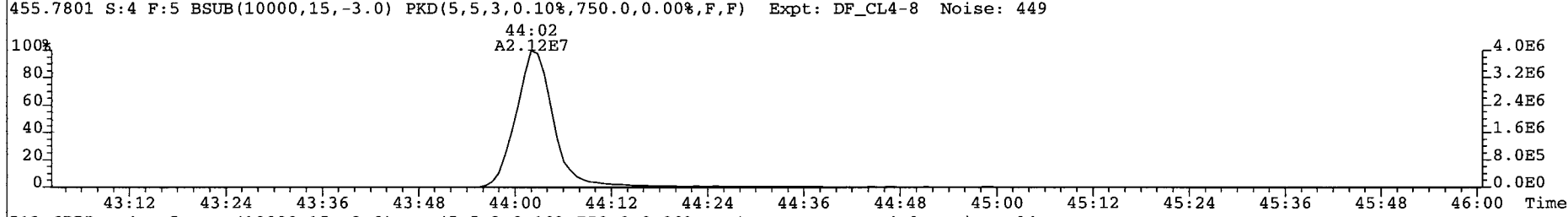
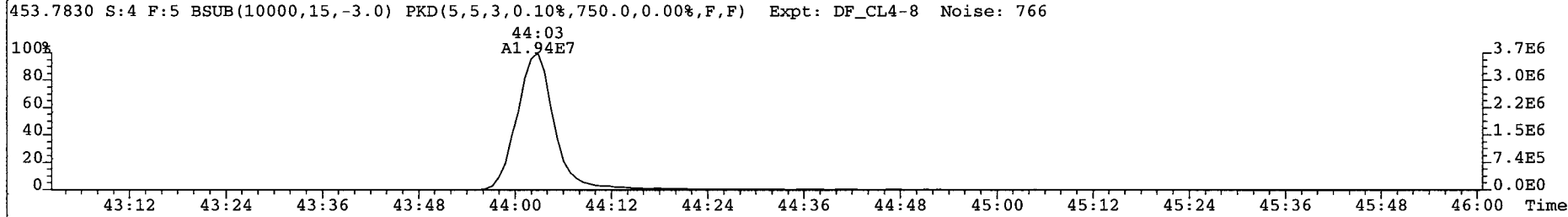
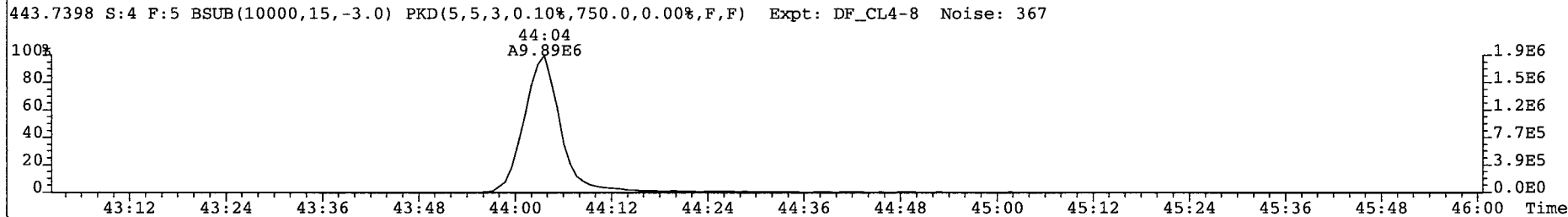
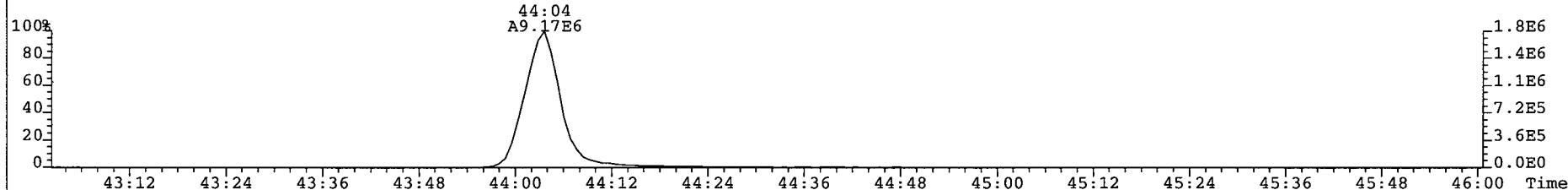
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2005



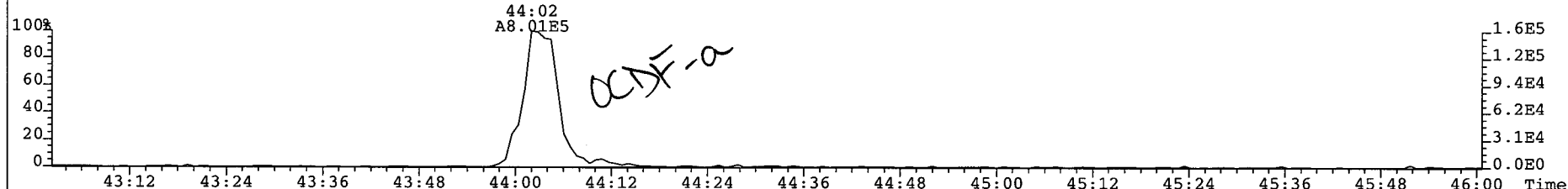
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



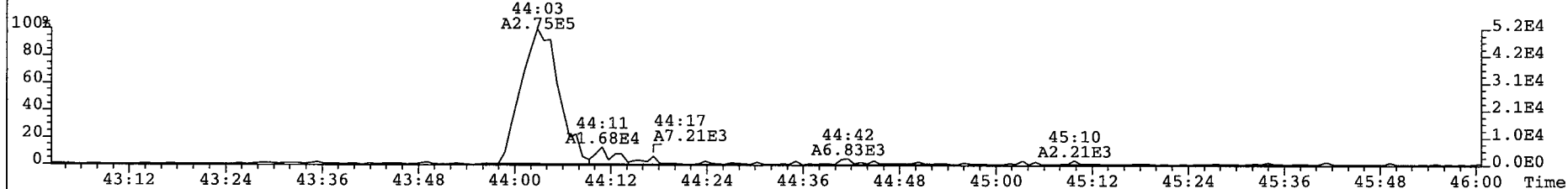
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 133



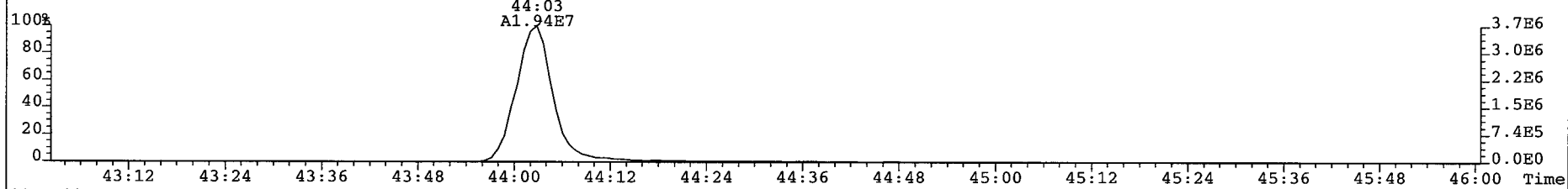
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
446.7402 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 102



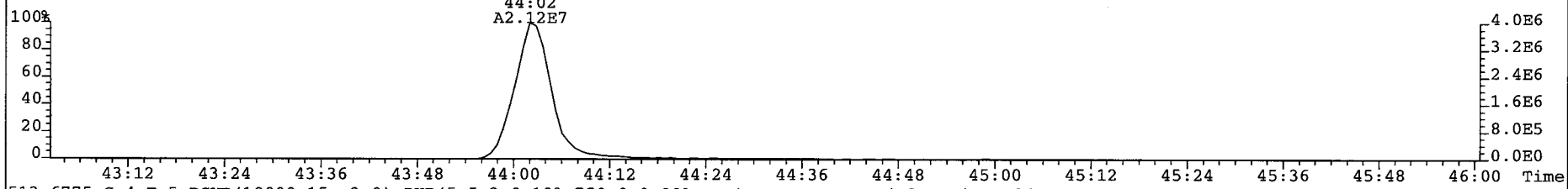
448.7373 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 109



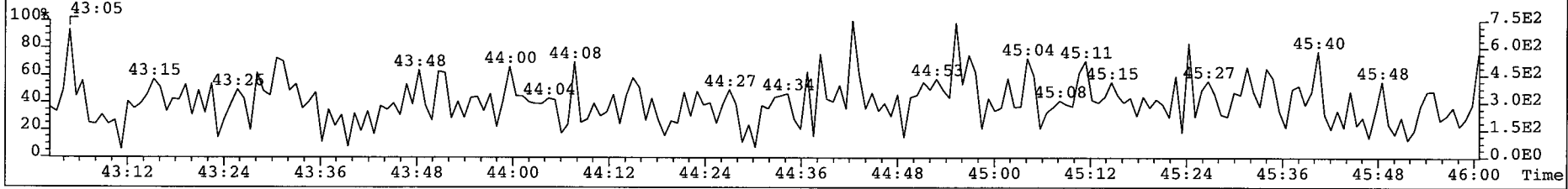
453.7830 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 766



455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 449



513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS4 ✓

Filename: 081225P1

S: 5 ✓

Acq: 25-DEC-08 13:32:54 ✓

Lab ID: SIL7-25-3

GC Column ID: db-5

ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000

Sample text: SIL7-25-3 NEW ICAL CS4

Vial: 20

40pg/ml

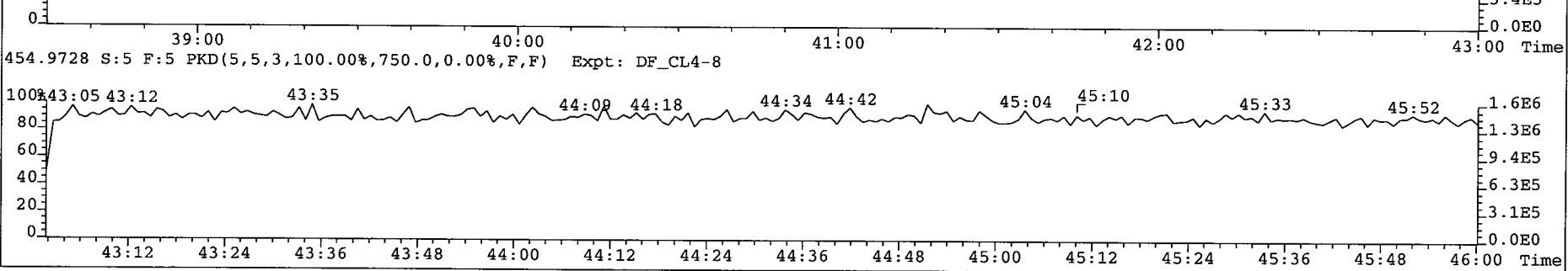
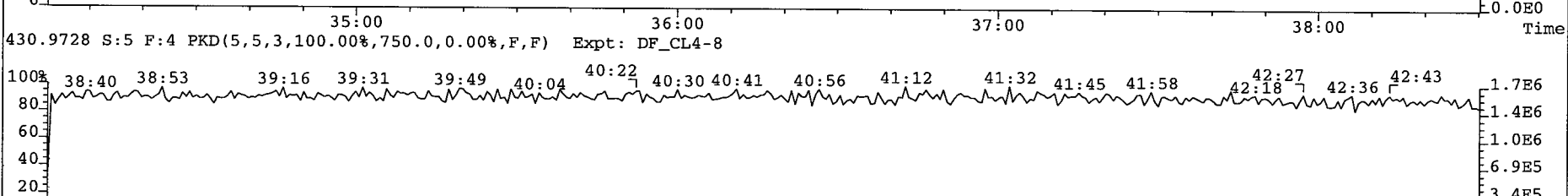
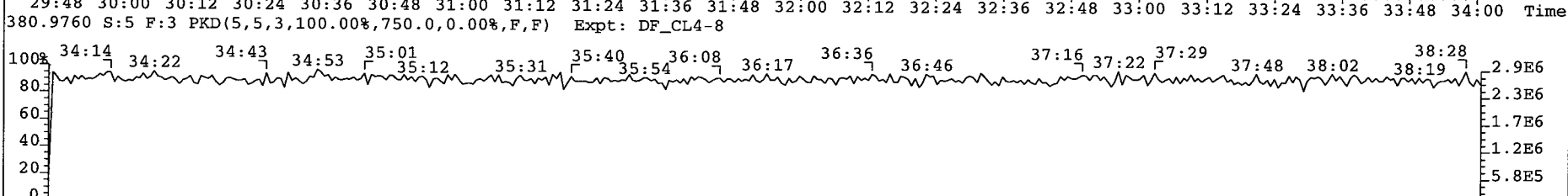
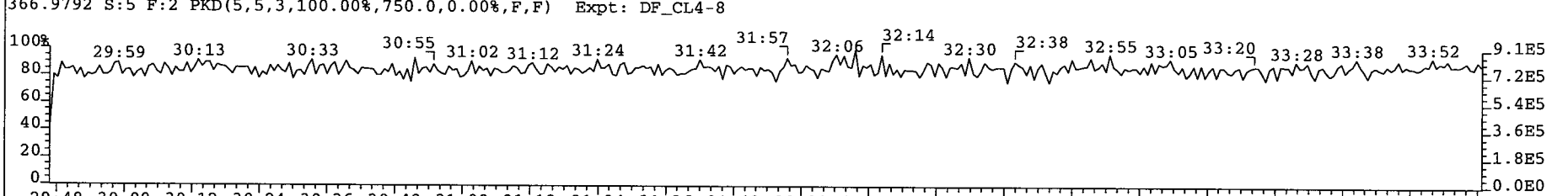
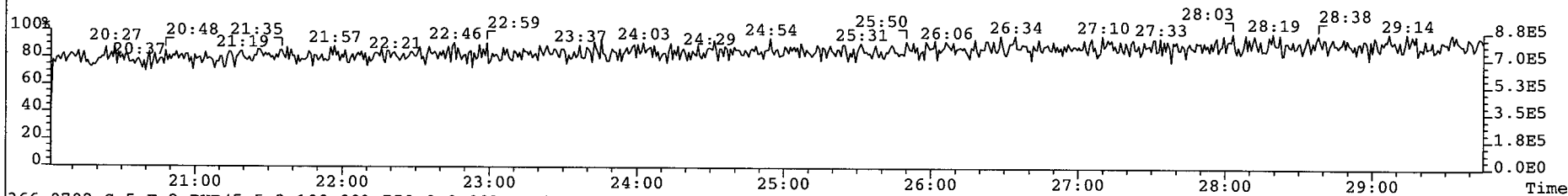
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	40.00	1.55e+07	0.79 y	27:05	- 1.11 ✓
2	Ax	1,2,3,7,8-PeCDD	200.00	5.87e+07	1.63 y	32:41	- 1.01
3	Ax	1,2,3,4,7,8-HxCDD	200.00	5.10e+07	1.26 y	36:38	- 1.11
4	Ax	1,2,3,6,7,8-HxCDD	200.00	5.31e+07	1.26 y	36:45	- 0.99 ✓
5	Ax	1,2,3,7,8,9-HxCDD	200.00	5.42e+07	1.26 y	37:03	- 1.06
6	Ax	1,2,3,4,6,7,8-HpCDD	200.00	4.24e+07	1.06 y	40:15	- 1.02
7	Ax	OCDD	400.00	6.10e+07	0.89 y	43:50	- 1.10 ✓
8	Ax2	OCDD-a	400.00	3.43e+06	2.60 y	43:49	- 0.06
9	Ax	2,3,7,8-TCDF	40.00	2.25e+07	0.79 y	26:09	- 1.06 ✓
10	Ax	1,2,3,7,8-PeCDF	200.00	9.44e+07	1.59 y	31:11	- 1.01
11	Ax	2,3,4,7,8-PeCDF	200.00	1.00e+08	1.58 y	32:19	- 1.04
12	Ax	1,2,3,4,7,8-HxCDF	200.00	7.89e+07	1.26 y	35:39	- 1.26 ✓
13	Ax	1,2,3,6,7,8-HxCDF	200.00	9.16e+07	1.23 y	35:48	- 1.21
14	Ax	2,3,4,6,7,8-HxCDF	200.00	8.09e+07	1.24 y	36:27	- 1.14
15	Ax	1,2,3,7,8,9-HxCDF	200.00	7.02e+07	1.26 y	37:26	- 1.15 ✓
16	Ax	1,2,3,4,6,7,8-HpCDF	200.00	6.89e+07	1.04 y	39:05	- 1.40
17	Ax	1,2,3,4,7,8,9-HpCDF	200.00	5.43e+07	1.06 y	40:50	- 1.36
18	Ax	OCDF	400.00	8.51e+07	0.91 y	44:04	- 0.96 ✓
19	Ax2	OCDF-a	400.00	4.71e+06	2.64 y	44:04	- 0.05
20	ES	13C-2,3,7,8-TCDD	100.00	3.48e+07	0.83 y	27:04	- 0.98 ✓
21	ES	13C-1,2,3,7,8-PeCDD	100.00	2.89e+07	1.66 y	32:40	- 0.81
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.25 y	36:37	- 1.01
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	2.67e+07	1.26 y	36:44	- 1.18 ✓
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	2.56e+07	1.28 y	37:02	- 1.13
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.08e+07	1.06 y	40:14	- 0.92
26	ES	13C-OCDD	200.00	2.77e+07	0.88 y	43:49	- 0.61 ✓
27	ES	13C-2,3,7,8-TCDF	100.00	5.31e+07	0.80 y	26:08	- 0.95 ✓
28	ES	13C-1,2,3,7,8-PeCDF	100.00	4.66e+07	1.59 y	31:10	- 0.83
29	ES	13C-2,3,4,7,8-PeCDF	100.00	4.83e+07	1.56 y	32:18	- 0.86
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	3.13e+07	0.53 y	35:39	- 1.38 ✓
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	3.80e+07	0.55 y	35:47	- 1.68
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	3.54e+07	0.54 y	36:26	- 1.57
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	3.05e+07	0.53 y	37:24	- 1.35
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.46e+07	0.45 y	39:04	- 1.09 ✓
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.99e+07	0.44 y	40:49	- 0.88
36	ES	13C-OCDF	200.00	4.44e+07	0.89 y	44:03	- 0.98 ✓
37	CS	37Cl-2,3,7,8-TCDD	40.00	1.41e+07		27:05	- 0.99 ✓
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.76e+07	1.68 y	32:10	- 0.78
39	CS	13C-1,2,3,4,6-PeCDF	100.00	4.52e+07	1.57 y	30:37	- 0.81
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	3.11e+07	0.53 y	36:06	- 1.38 ✓
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.05e+07	0.46 y	39:33	- 0.91
42	NA	n/a	100.00	*	* n	NotF>	- *
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.56e+07	0.84 y	26:24	3.56e+05 -
44	JS	13C-1,2,3,4-TCDF	100.00	5.61e+07	0.77 y	24:42	5.61e+05 -
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.30 y	36:56	2.26e+05 -

calc.

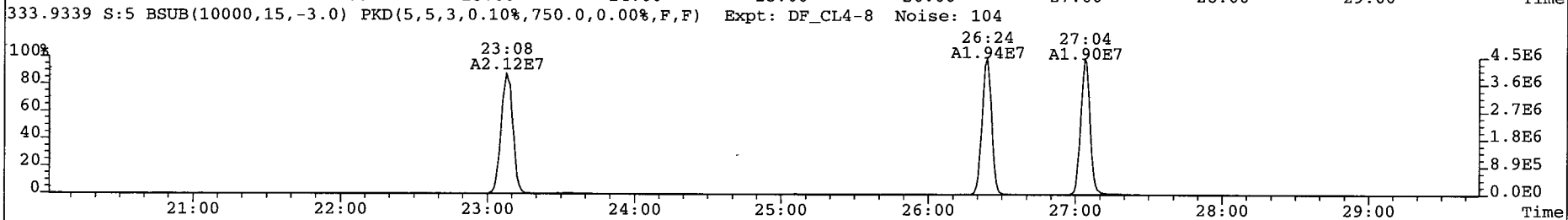
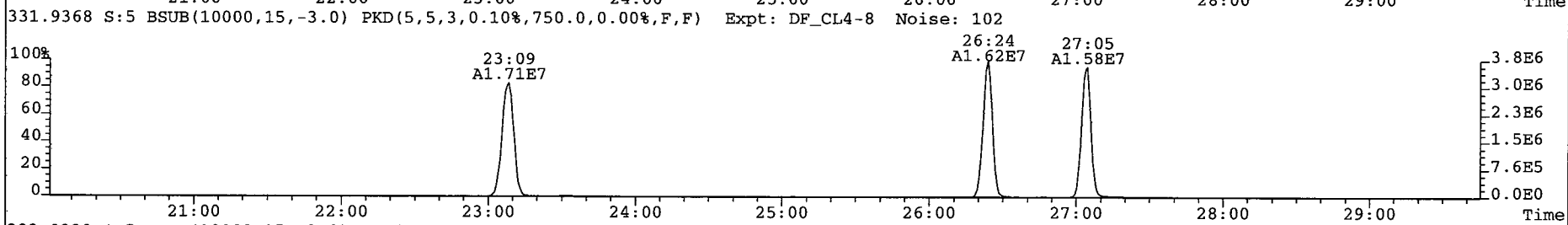
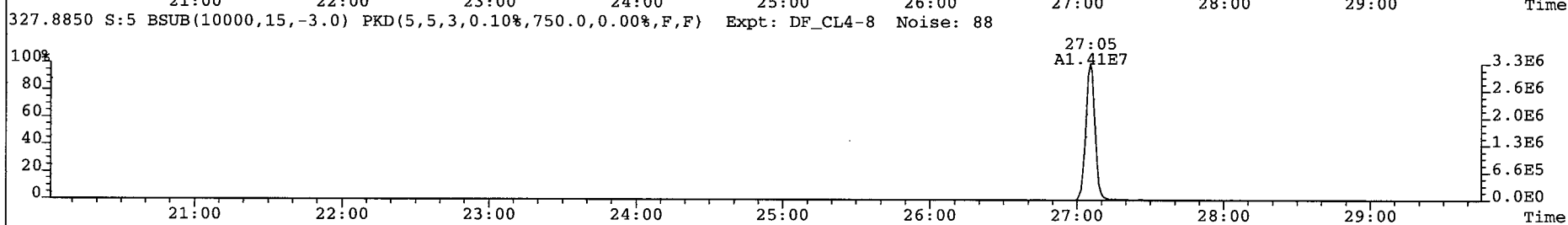
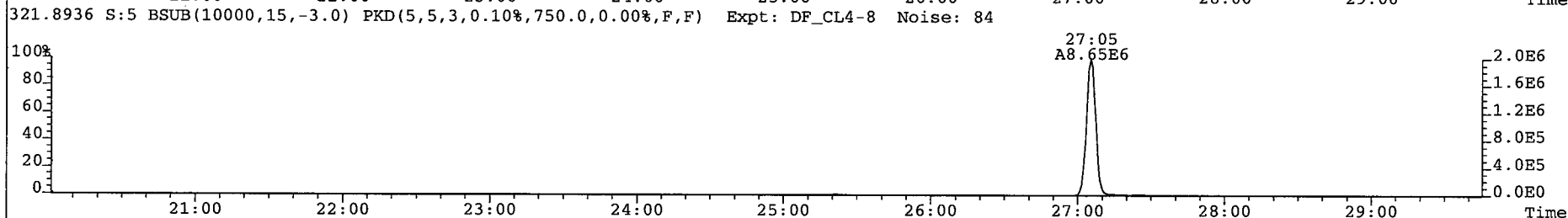
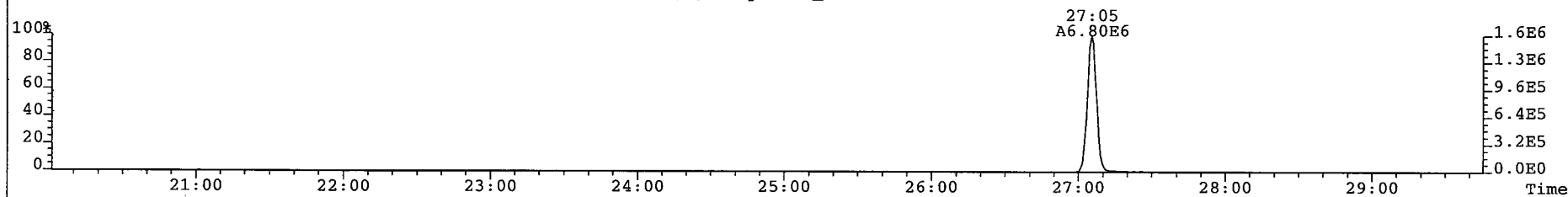
Analyst: WY
Date: 23 Dec 08

46	SS	37C1-2,3,7,8-TCDD	40.00	1.41e+07		27:05	-	1.01 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.76e+07	1.68 y	32:10	-	0.95
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.52e+07	1.57 y	30:37	-	0.97 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.11e+07	0.53 y	36:06	-	0.82
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.05e+07	0.46 y	39:33	-	0.83 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.06 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.11 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.11
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.11
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.01
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.01
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.05 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.02
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.06
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.06
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.06
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.06 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.03
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.19 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.11
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.01
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.05
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.02
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.06
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.03
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.19
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.38
73	Tot	TCDD EMPC	-	-	- n	-	-	1.11
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.01
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.05
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.02
77	Tot	TCDF EMPC	-	-	- n	-	-	1.06
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.03
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.19
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.38
81	AS	13C-1,3,6,8-TCDD	100.00	3.84e+07	0.81 y	23:08	-	1.08 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.06e+07	0.79 y	20:56	-	1.08
83	DPE	HxCDDPE	-	4.81e+03		27:39	-	-
84	DPE	HpCDDPE	-	1.99e+04		29:56	-	-
85	DPE	OCDDPE	-	6.14e+03		37:57	-	-
86	DPE	NCDPE	-	4.79e+03		38:52	-	-
87	DPE	DCDDPE	-	1.55e+03		44:56	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-

File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



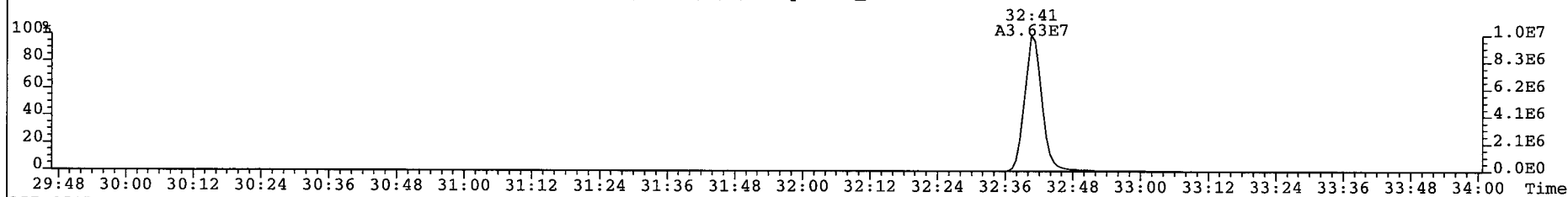
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 93



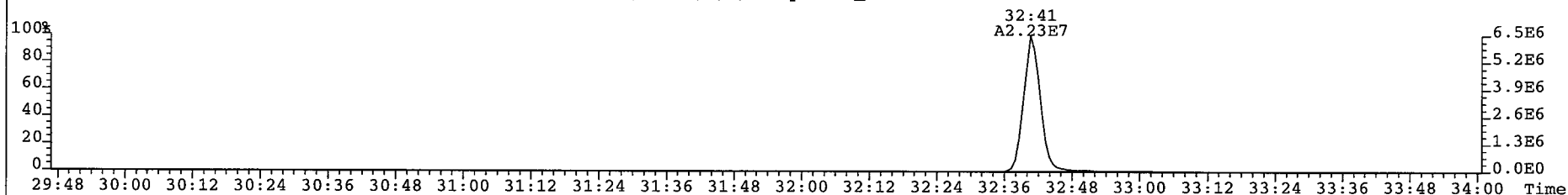
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

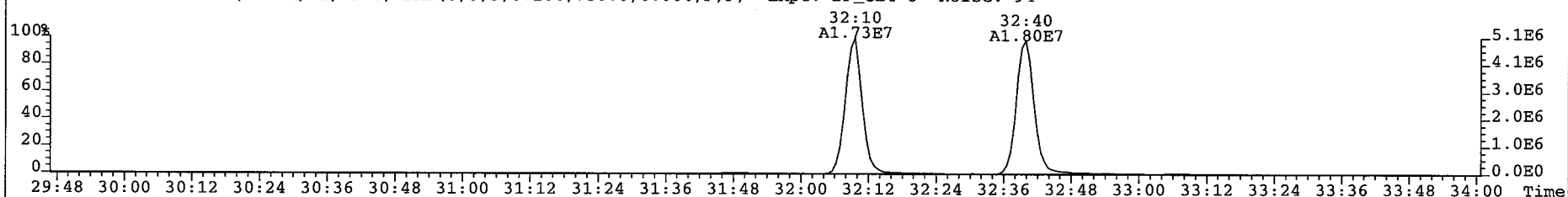
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 108



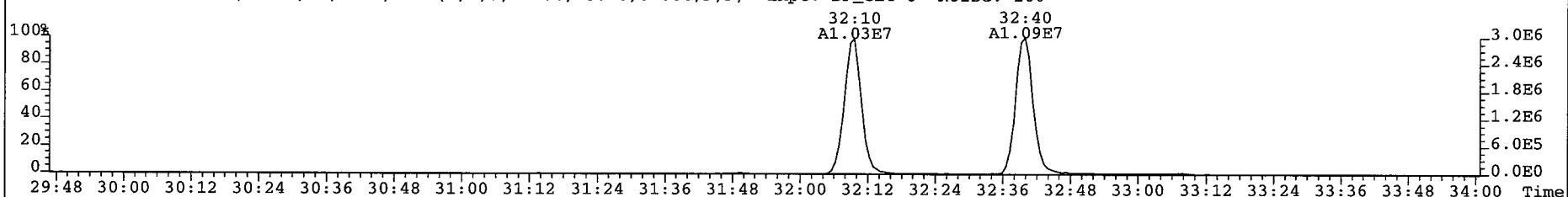
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



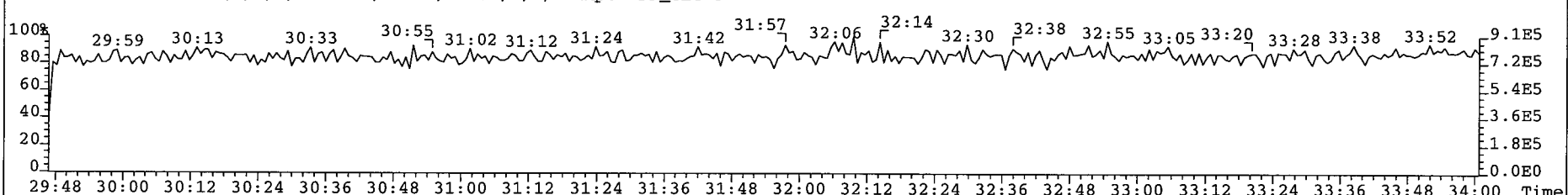
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 100



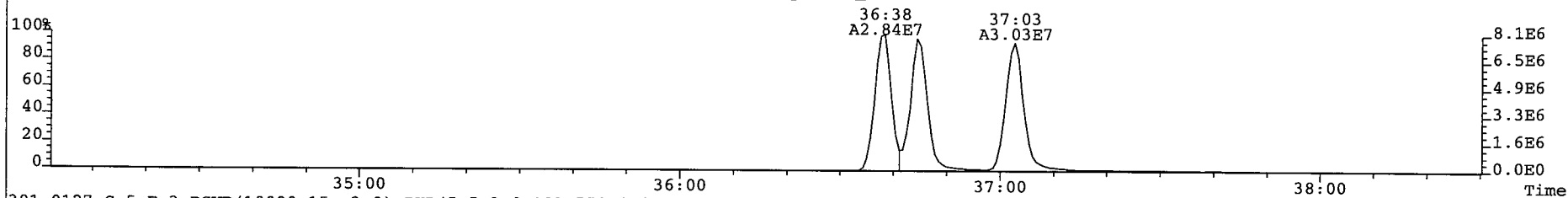
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



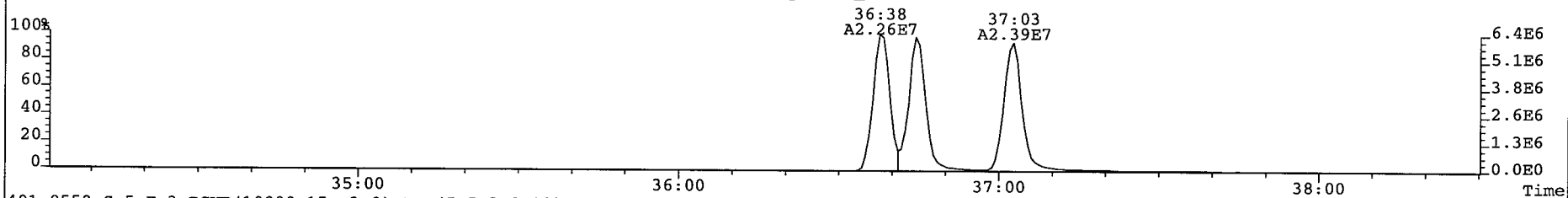
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

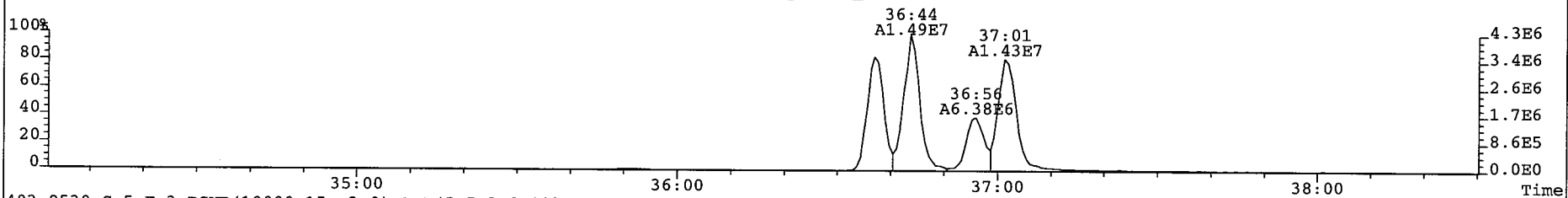
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



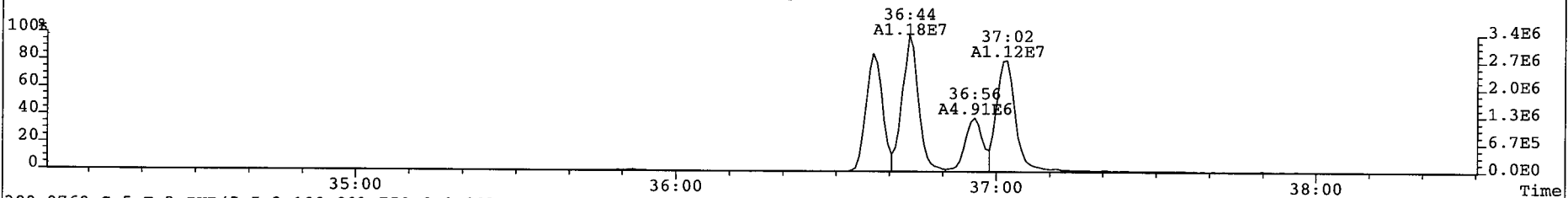
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



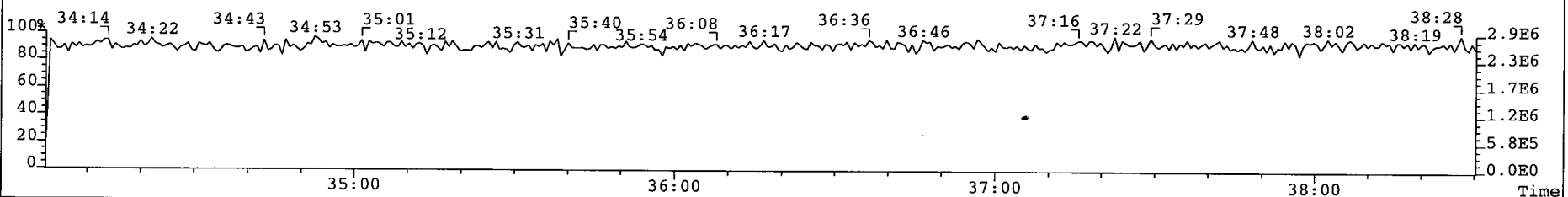
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



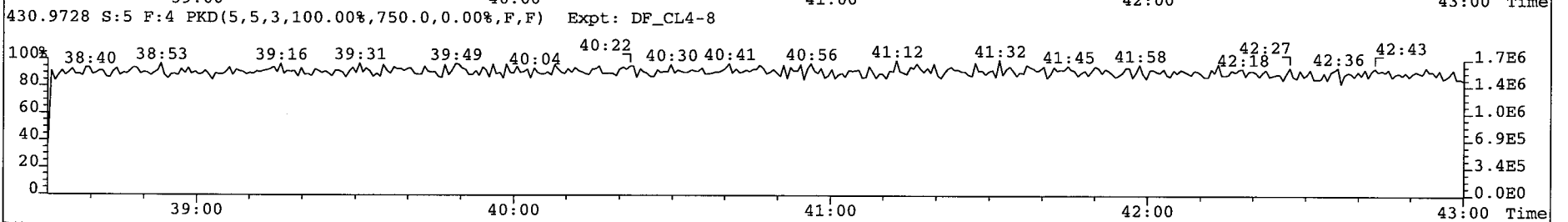
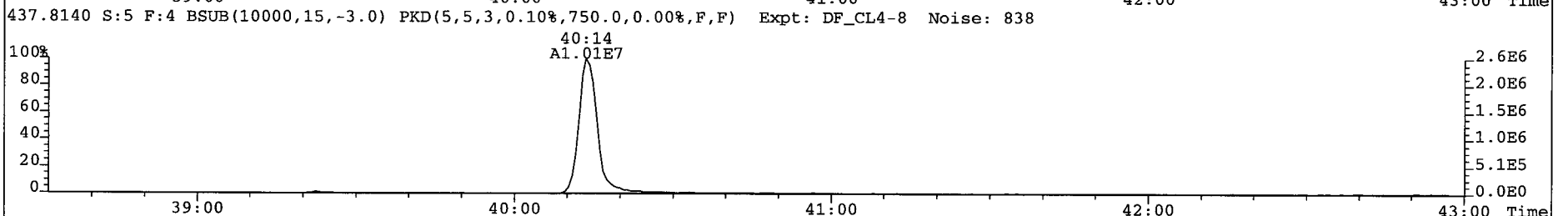
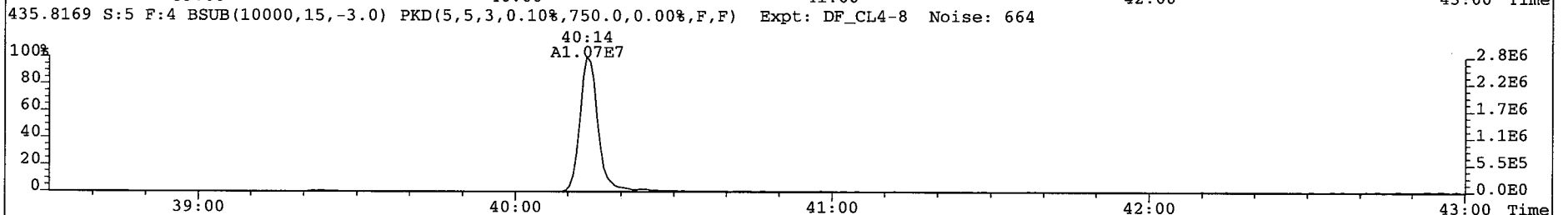
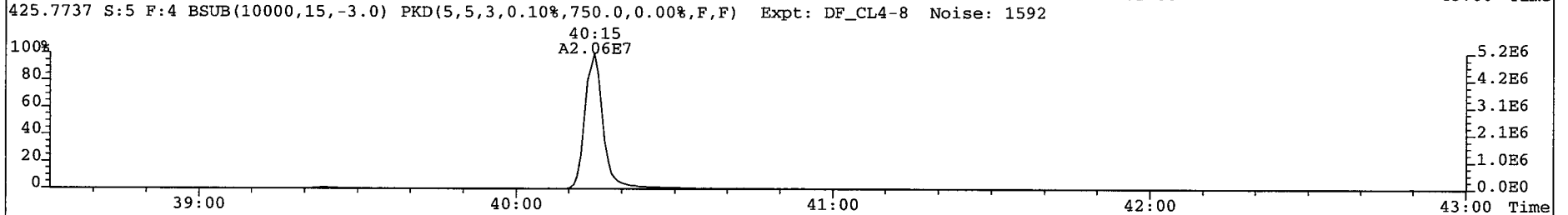
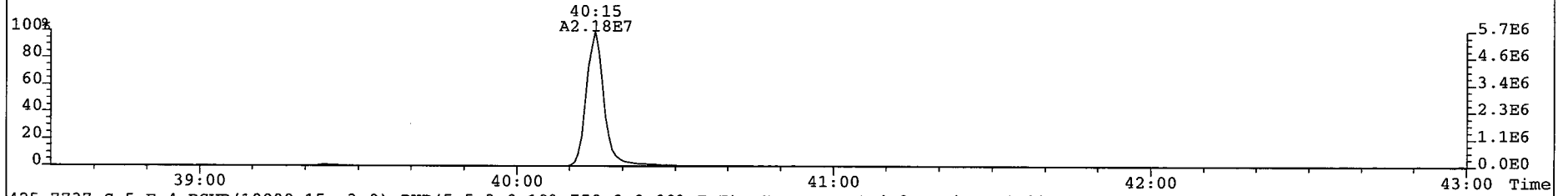
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



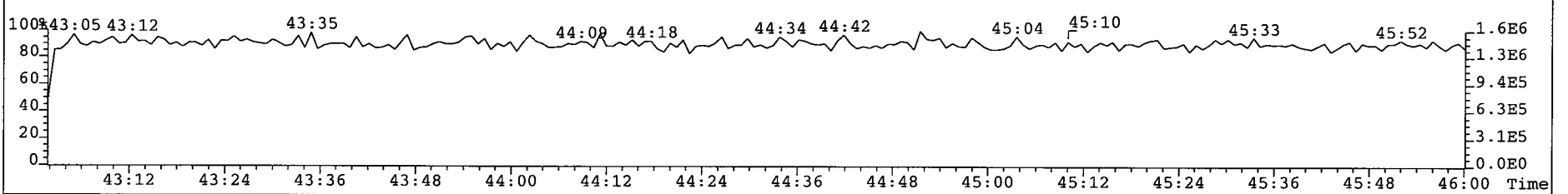
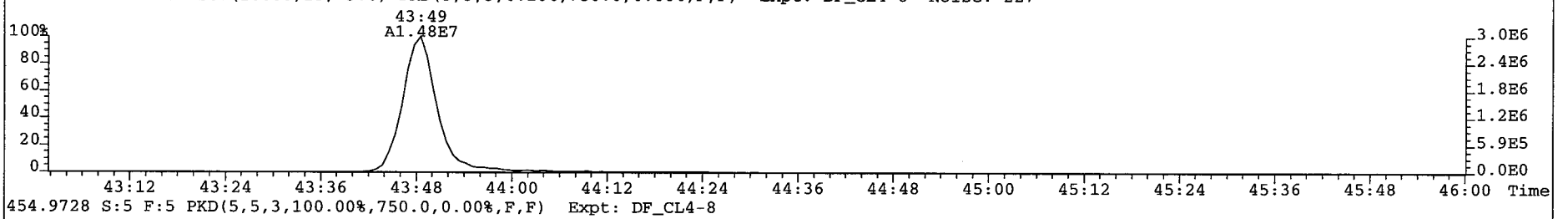
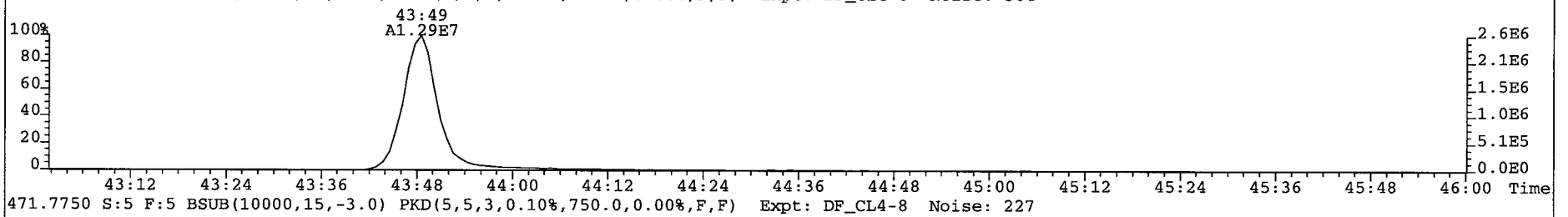
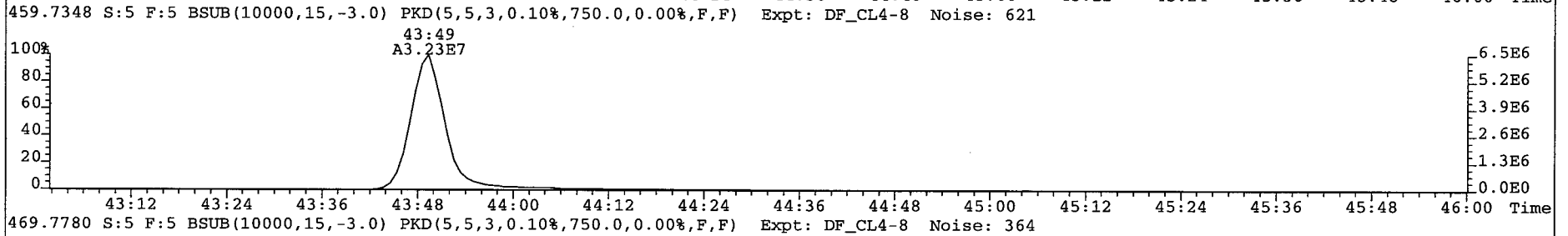
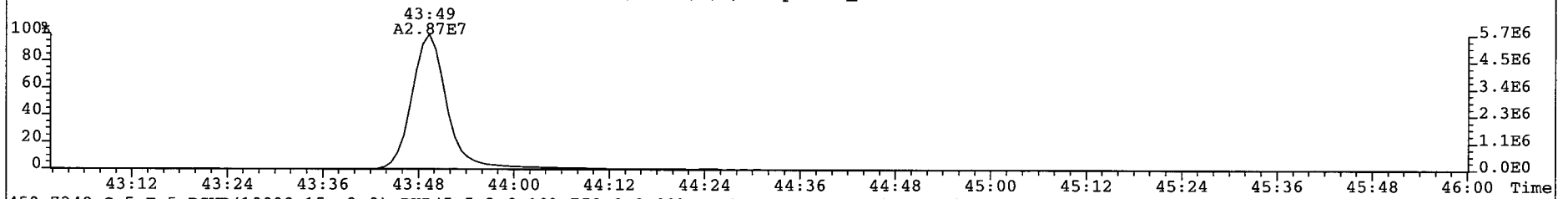
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



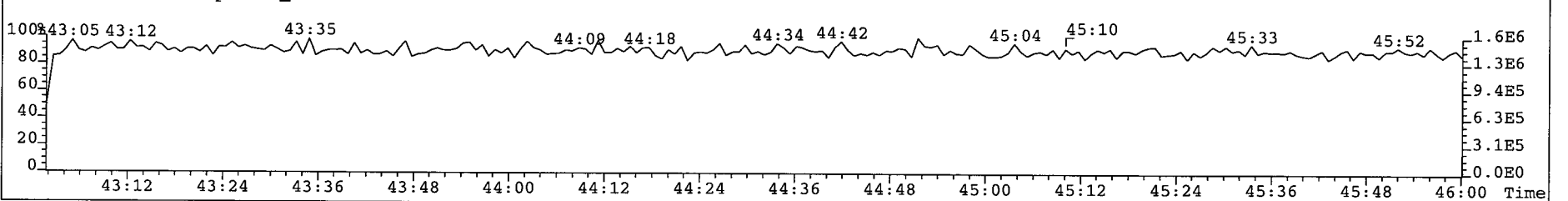
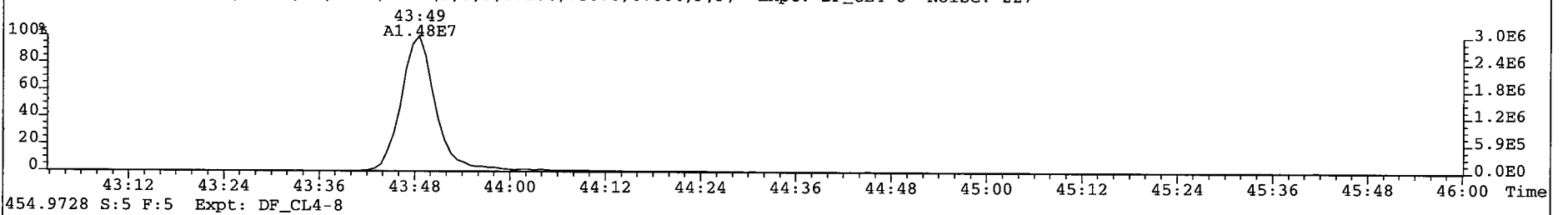
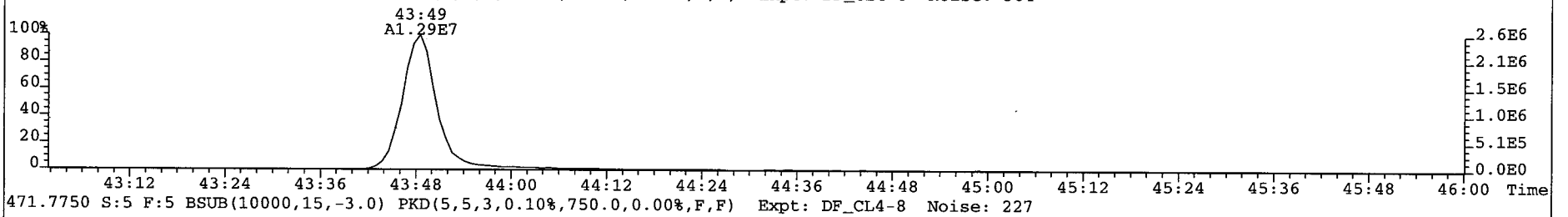
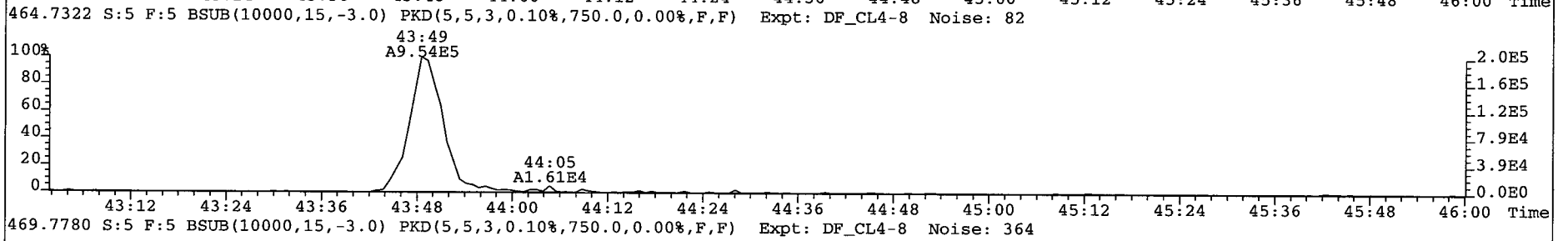
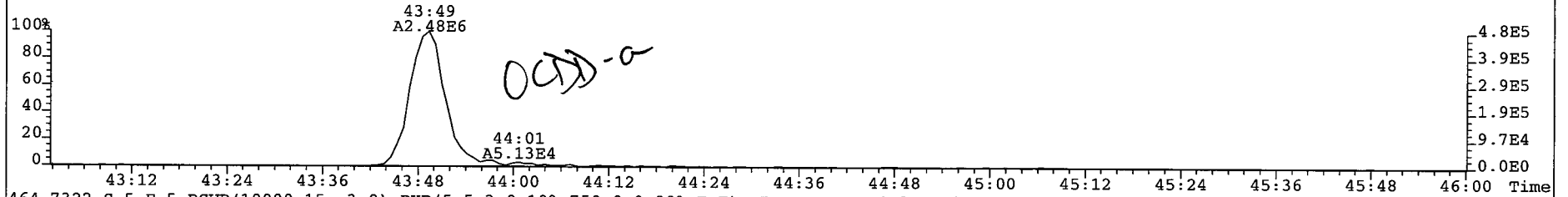
File: 081225F1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1152



File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
457.7377 S:5 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 517



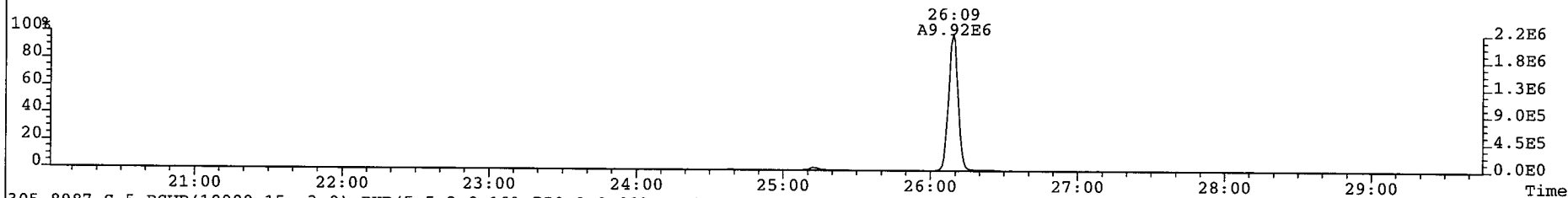
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
462.7352 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 63



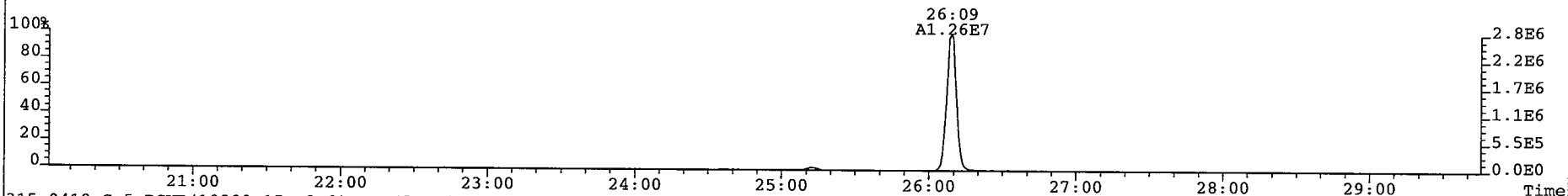
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

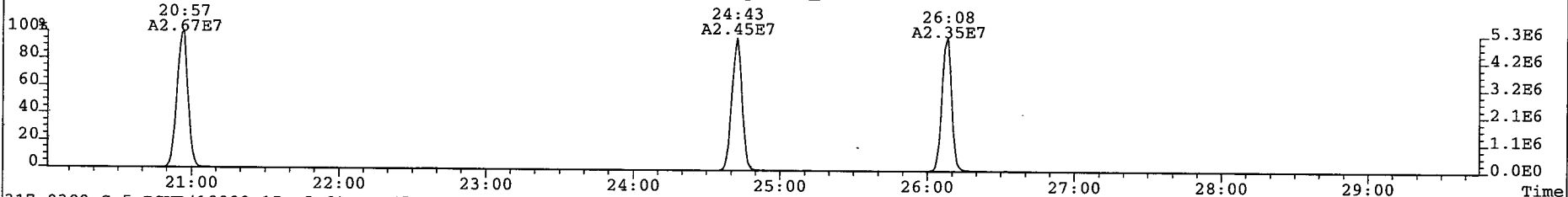
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 99



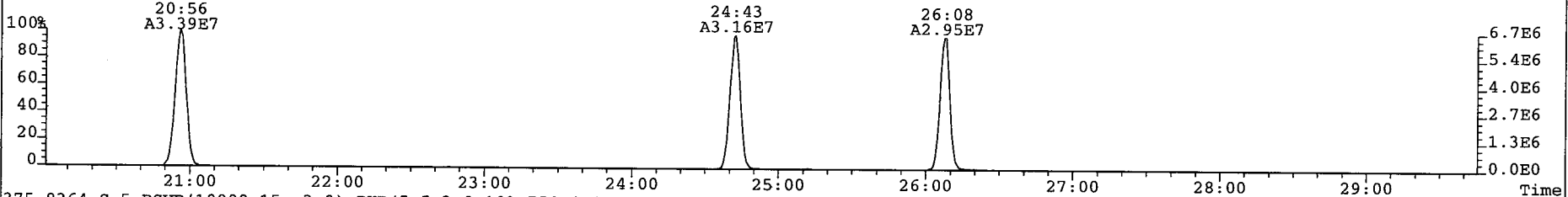
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 107



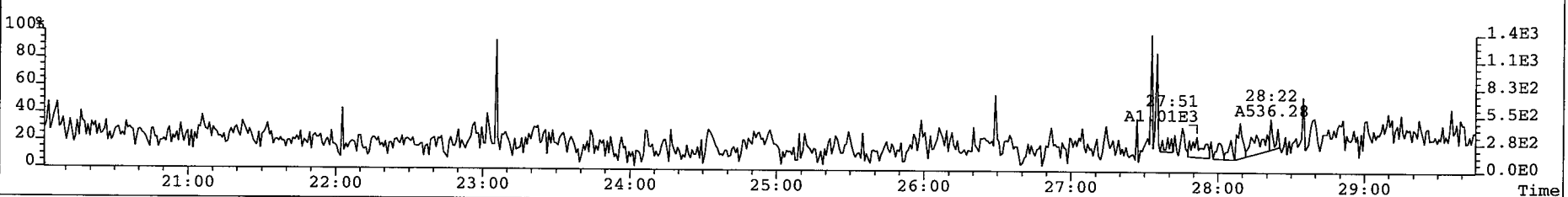
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 92



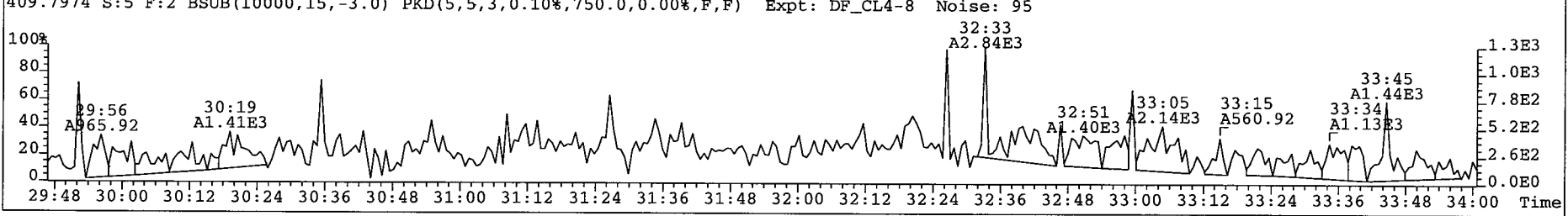
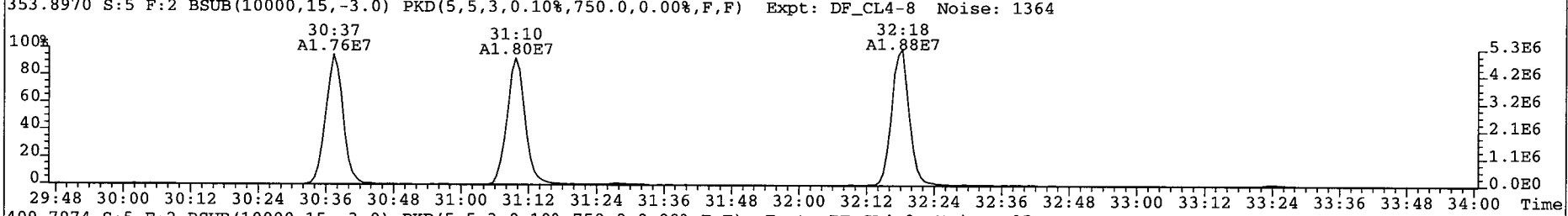
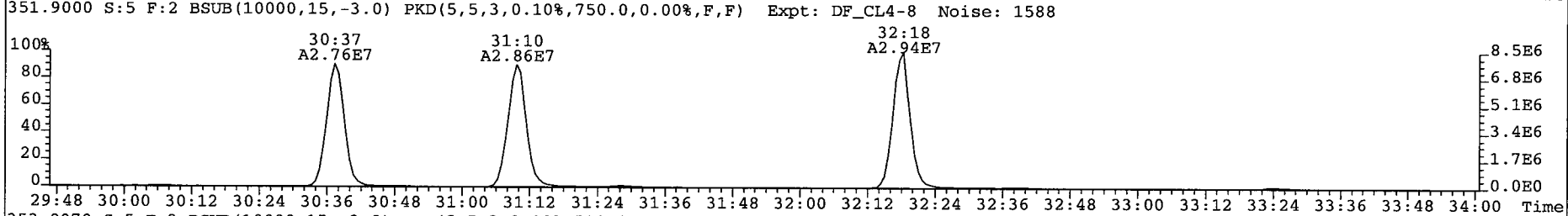
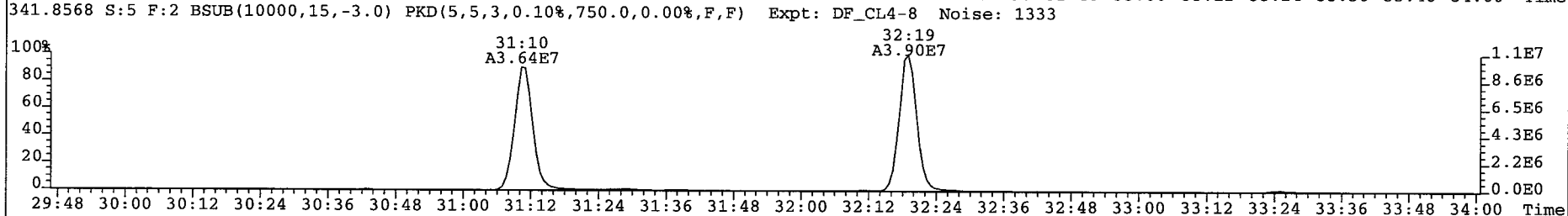
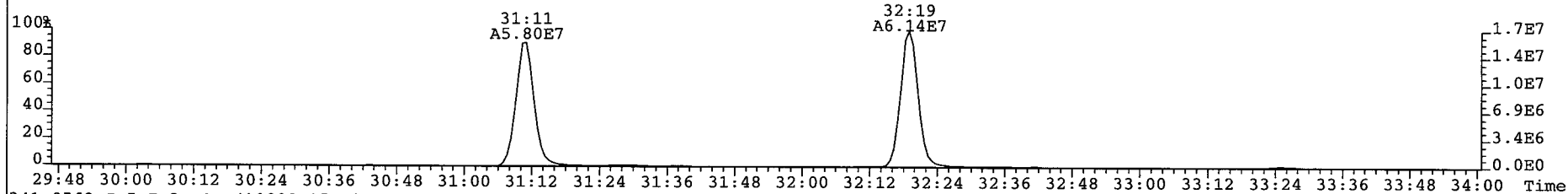
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 123



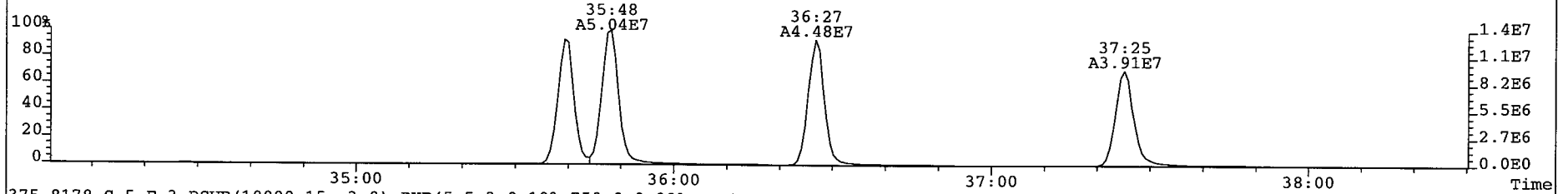
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 92



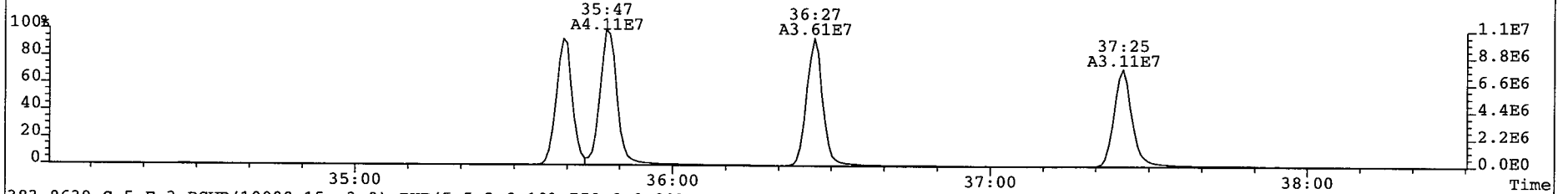
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1370



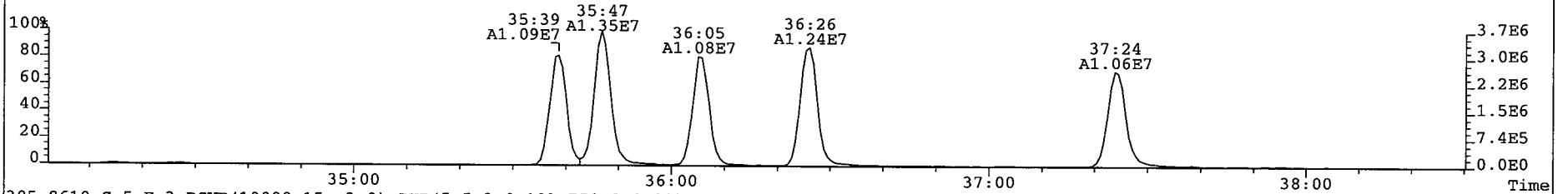
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1959



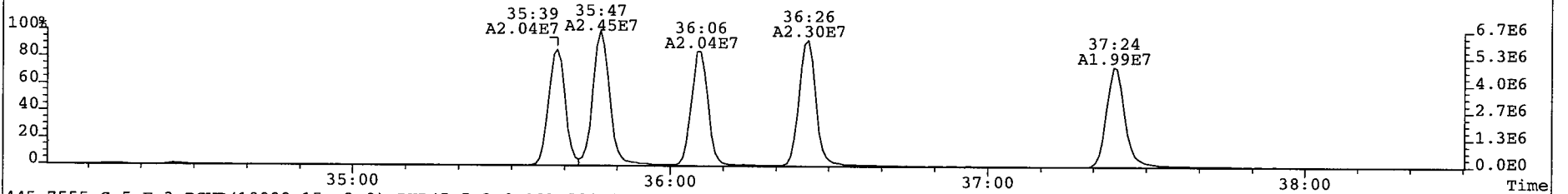
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1382



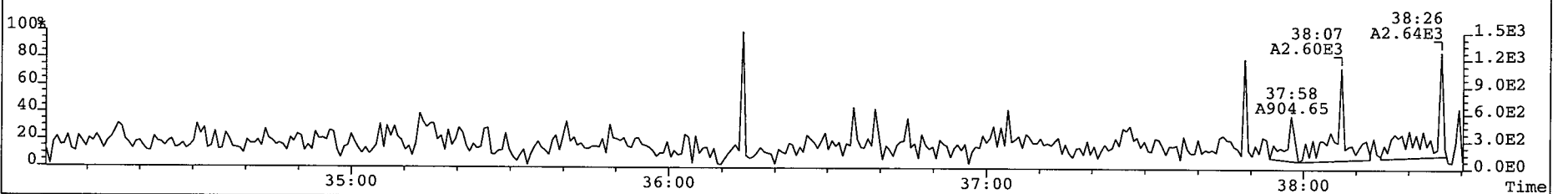
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 902



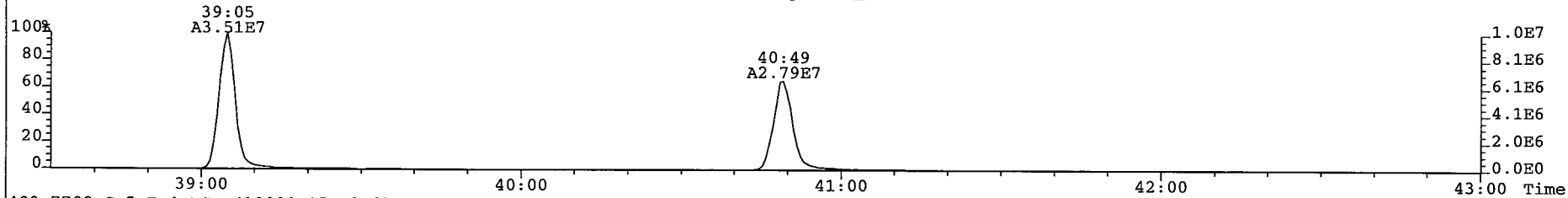
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1616



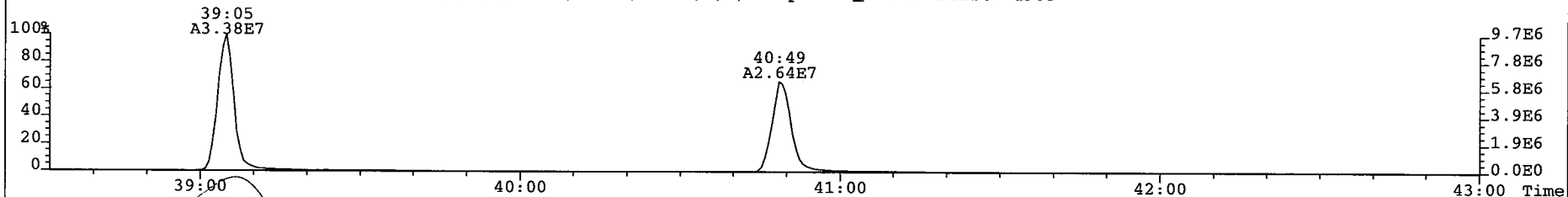
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 79



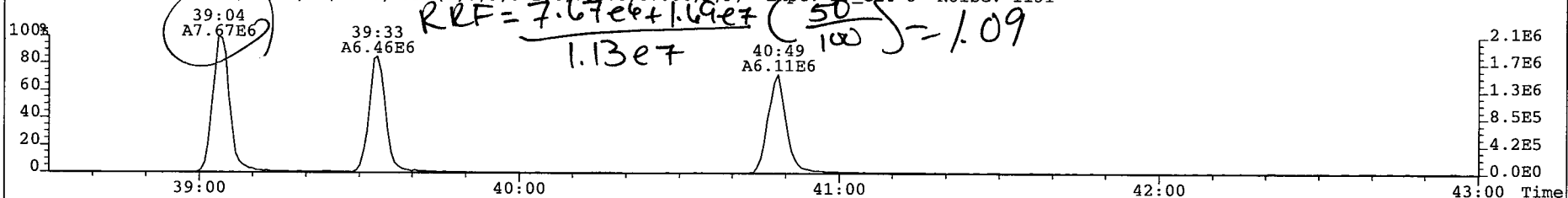
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1776



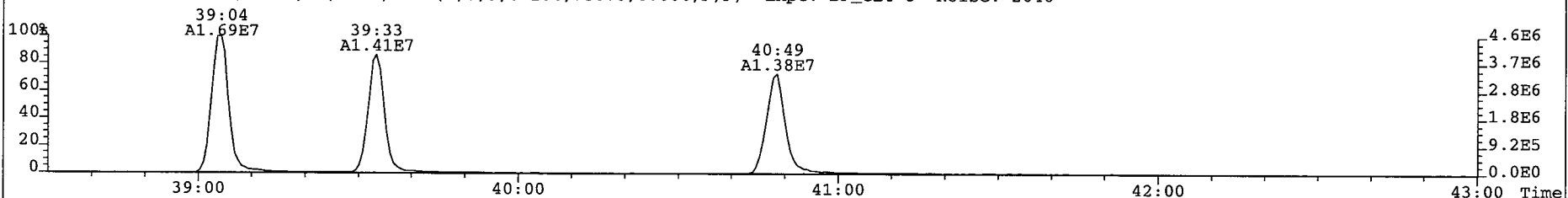
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1985



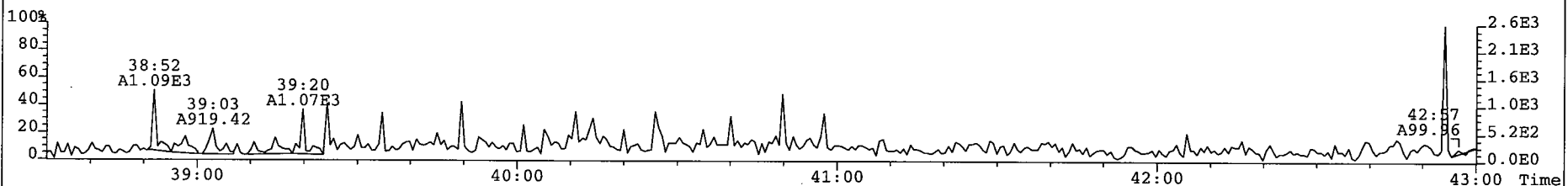
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1131



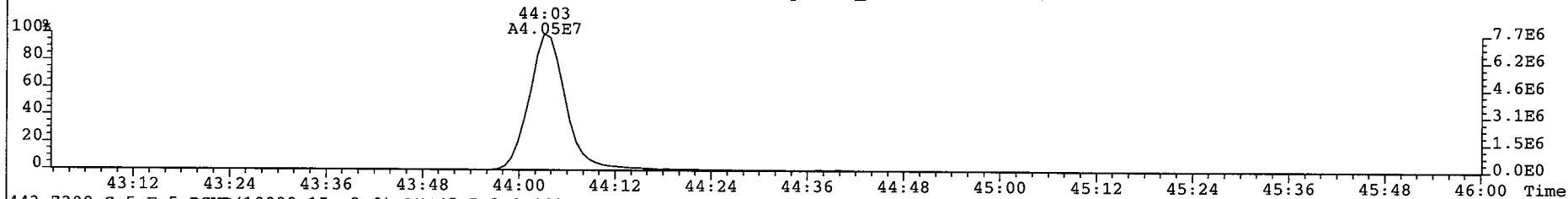
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2046



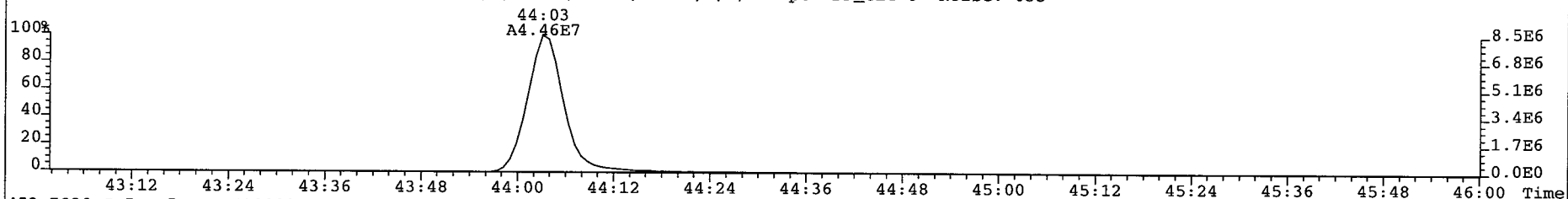
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



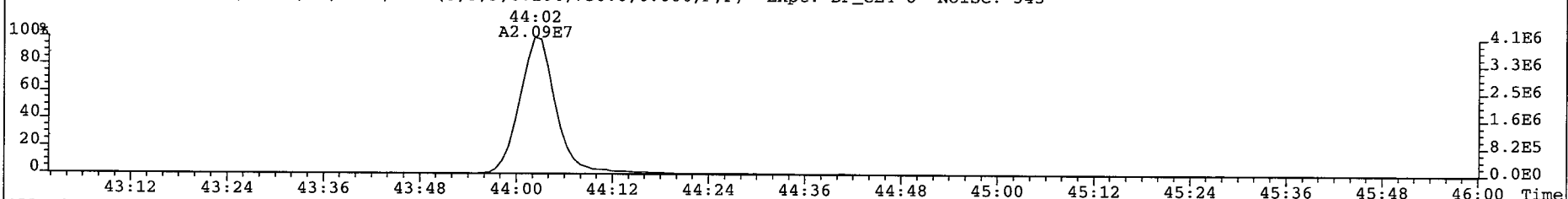
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 358



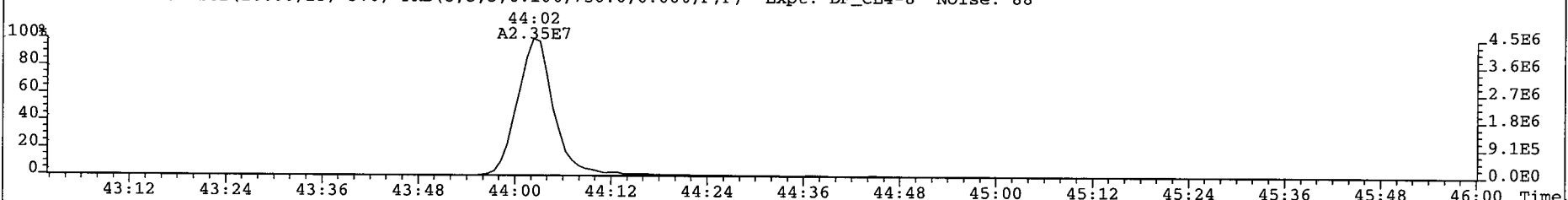
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 635



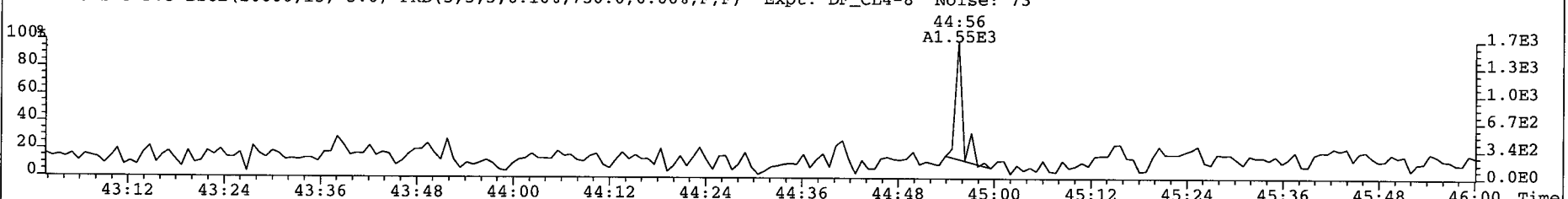
453.7830 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 345



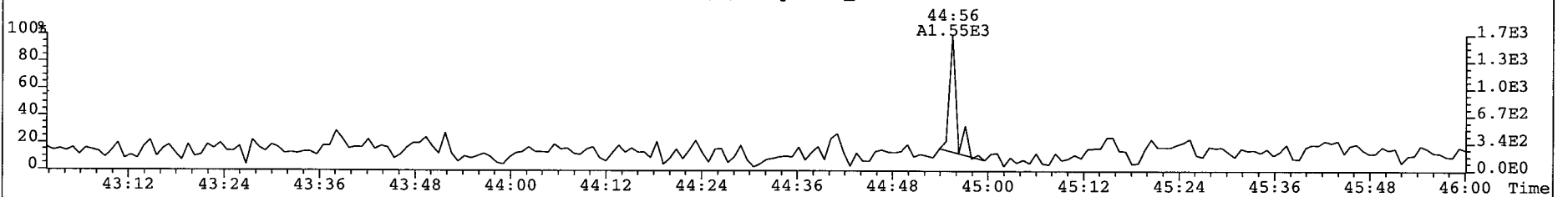
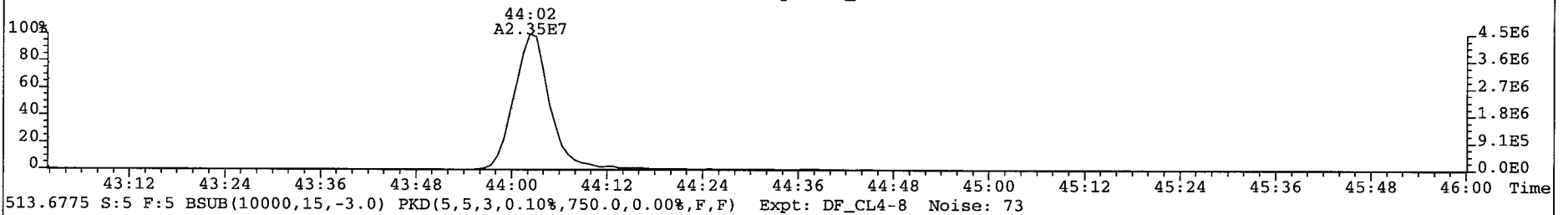
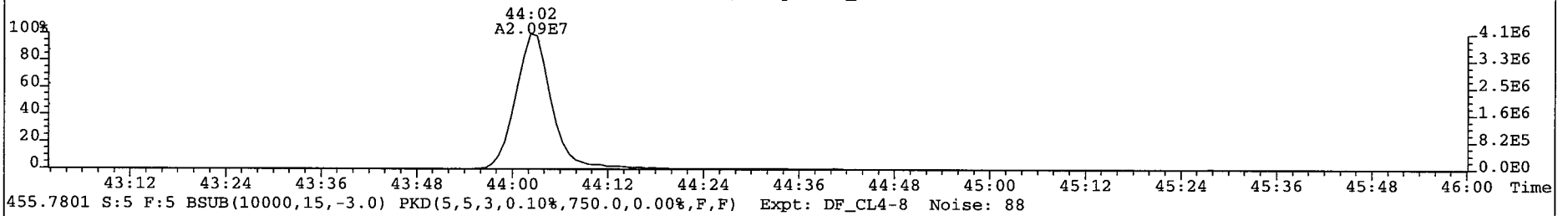
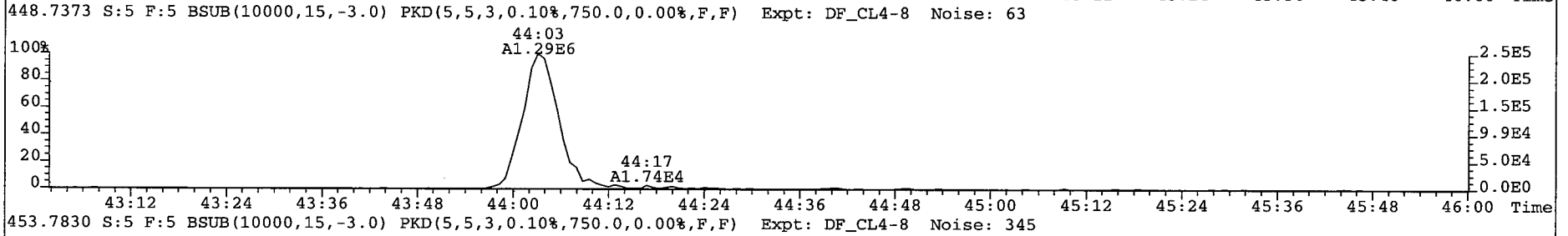
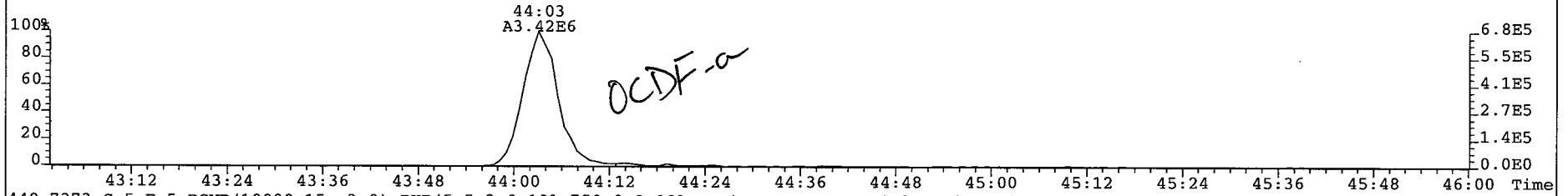
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
446.7402 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 71



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS5
 Lab ID: SIL7-25-2
 Sample text: SIL7-25-2 NEW ICAL CS5

Filename: 081225P1 S: 6
 GC Column ID: db-5 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 21

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	200.00	7.43e+07	0.79 y	27:05	-	1.12
2	Ax 1,2,3,7,8-PeCDD	1000.00	3.02e+08	1.60 y	32:41	-	1.03
3	Ax 1,2,3,4,7,8-HxCDD	1000.00	2.68e+08	1.26 y	36:38	-	1.12
4	Ax 1,2,3,6,7,8-HxCDD	1000.00	2.68e+08	1.26 y	36:45	-	0.97
5	Ax 1,2,3,7,8,9-HxCDD	1000.00	2.75e+08	1.26 y	37:03	-	1.02
6	Ax 1,2,3,4,6,7,8-HpCDD	1000.00	2.26e+08	1.06 y	40:15	-	1.01
7	Ax OCDD	2000.00	3.48e+08	0.89 y	43:50	-	1.09
8	Ax2 OCDD-a	2000.00	2.06e+07	2.54 y	43:49	-	0.06
9	Ax 2,3,7,8-TCDF	200.00	1.03e+08	0.78 y	26:09	-	1.06
10	Ax 1,2,3,7,8-PeCDF	1000.00	4.77e+08	1.58 y	31:11	-	1.01
11	Ax 2,3,4,7,8-PeCDF	1000.00	5.01e+08	1.57 y	32:19	-	1.02
12	Ax 1,2,3,4,7,8-HxCDF	1000.00	4.09e+08	1.26 y	35:39	-	1.24
13	Ax 1,2,3,6,7,8-HxCDF	1000.00	4.80e+08	1.25 y	35:48	-	1.18
14	Ax 2,3,4,6,7,8-HxCDF	1000.00	4.15e+08	1.25 y	36:27	-	1.18
15	Ax 1,2,3,7,8,9-HxCDF	1000.00	3.66e+08	1.28 y	37:26	-	1.16
16	Ax 1,2,3,4,6,7,8-HpCDF	1000.00	3.75e+08	1.04 y	39:05	-	1.40
17	Ax 1,2,3,4,7,8,9-HpCDF	1000.00	2.94e+08	1.04 y	40:50	-	1.39
18	Ax OCDF	2000.00	4.84e+08	0.91 y	44:04	-	0.95
19	Ax2 OCDF-a	2000.00	2.79e+07	2.68 y	44:04	-	0.05
20	ES 13C-2,3,7,8-TCDD	100.00	3.31e+07	0.82 y	27:04	-	1.05
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.94e+07	1.65 y	32:40	-	0.93
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.39e+07	1.29 y	36:37	-	1.20
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.75e+07	1.28 y	36:44	-	1.38
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.71e+07	1.28 y	37:02	-	1.36
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.24e+07	1.09 y	40:14	-	1.12
26	ES 13C-OCDD	200.00	3.18e+07	0.86 y	43:49	-	0.80
27	ES 13C-2,3,7,8-TCDF	100.00	4.83e+07	0.80 y	26:08	-	0.99
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.72e+07	1.59 y	31:10	-	0.97
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.90e+07	1.55 y	32:18	-	1.01
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.29e+07	0.54 y	35:38	-	1.65
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	4.07e+07	0.54 y	35:47	-	2.04
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.52e+07	0.54 y	36:26	-	1.76
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	3.15e+07	0.53 y	37:24	-	1.58
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.68e+07	0.45 y	39:04	-	1.34
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.12e+07	0.46 y	40:48	-	1.06
36	ES 13C-OCDF	200.00	5.11e+07	0.90 y	44:03	-	1.28
37	CS 37C1-2,3,7,8-TCDD	200.00	6.73e+07		27:05	-	1.07
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.50e+07	1.69 y	32:09	-	0.79
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.06e+07	1.57 y	30:37	-	0.83
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	2.96e+07	0.53 y	36:05	-	1.48
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	1.89e+07	0.46 y	39:33	-	0.95
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.16e+07	0.82 y	26:23	3.16e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	4.87e+07	0.79 y	24:42	4.87e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	9.98e+06	1.29 y	36:55	2.00e+05	-

calc.

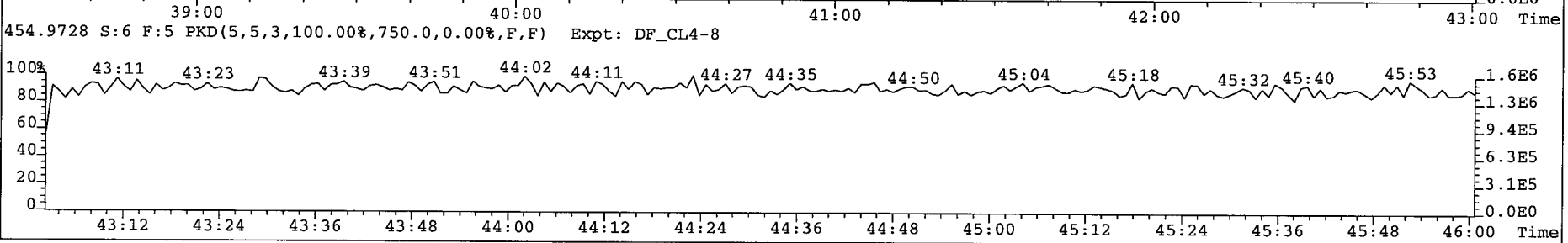
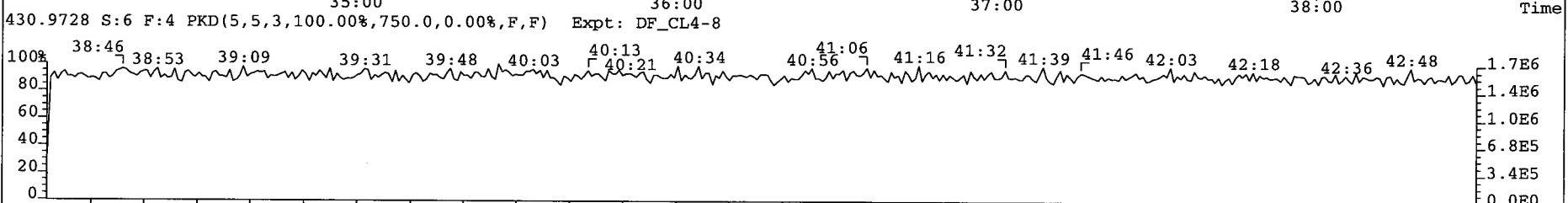
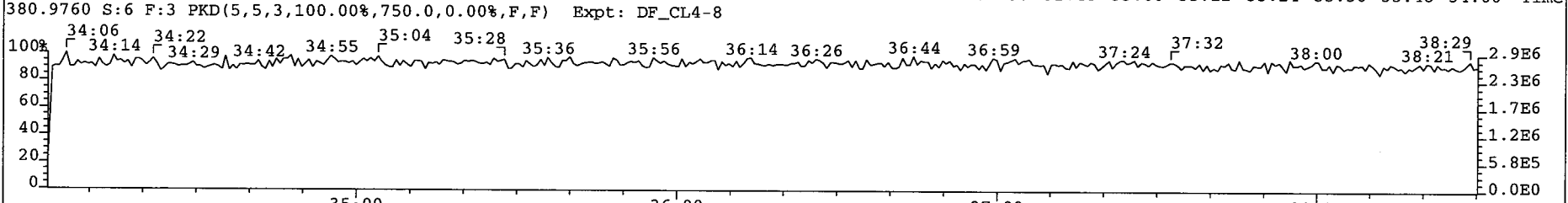
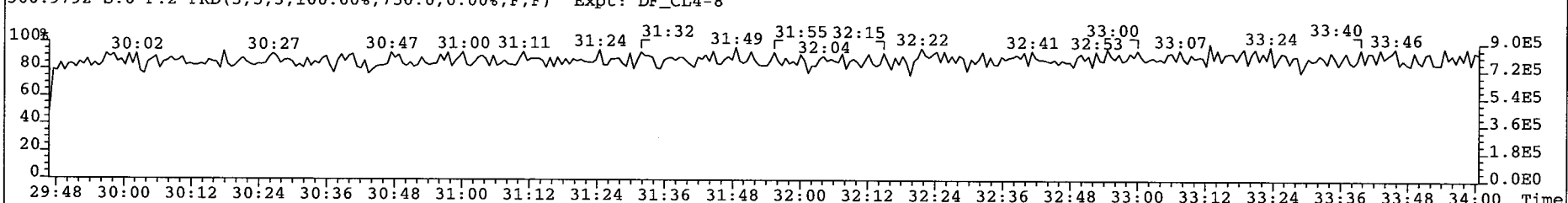
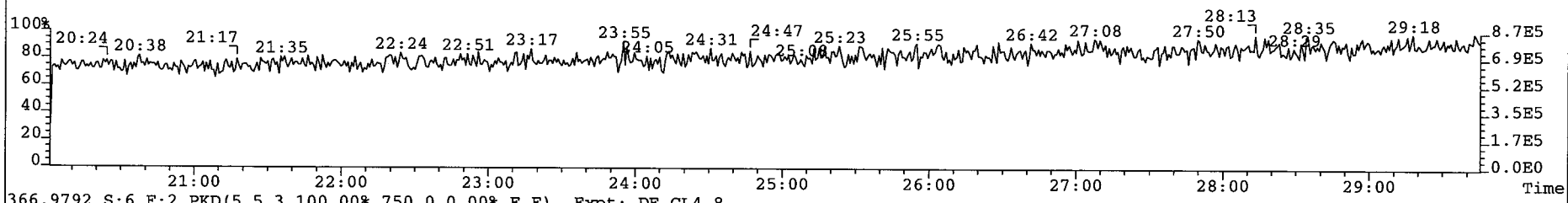
200pg/ml

Analyst: *[Signature]*

Date: *25 Dec 08*

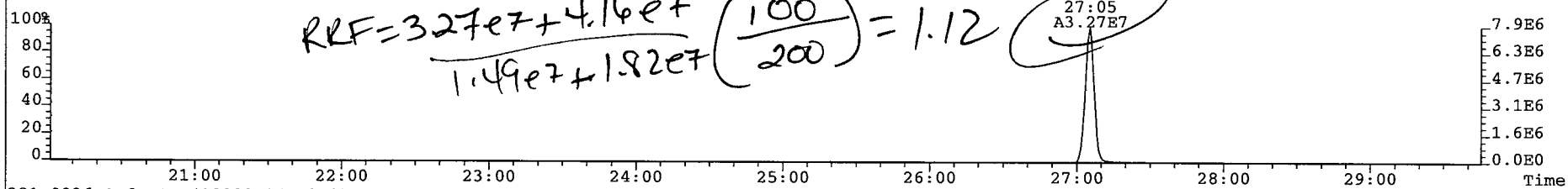
46	SS	37Cl-2,3,7,8-TCDD	200.00	6.73e+07		27:05	-	1.02 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.50e+07	1.69 y	32:09	-	0.85
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.06e+07	1.57 y	30:37	-	0.86 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.96e+07	0.53 y	36:05	-	0.73
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.89e+07	0.46 y	39:33	-	0.71 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.06 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.12 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.12
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.12
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.03
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.03 ✓
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.03
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.01
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.06
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.06
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.06
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.06 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.02
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.19
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.12
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.03
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.03
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.01
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.06
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.02
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.19
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.39
73	Tot	TCDD EMPC	-	-	- n	-	-	1.12
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.03
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.03
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.01
77	Tot	TCDF EMPC	-	-	- n	-	-	1.06
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.02
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.19
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.39
81	AS	13C-1,3,6,8-TCDD	100.00	3.41e+07	0.83 y	23:08	-	1.08 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	5.25e+07	0.79 y	20:56	-	1.08
83	DPE	HxCDPPE	-	1.15e+04		22:41	-	-
84	DPE	HpCDPE	-	*		NotF>>	-	-
85	DPE	OCDPPE	-	*		NotF>>	-	-
86	DPE	NCDPE	-	2.09e+04		39:22	-	-
87	DPE	DCDPE	-	*		NotF>>	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-

File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8

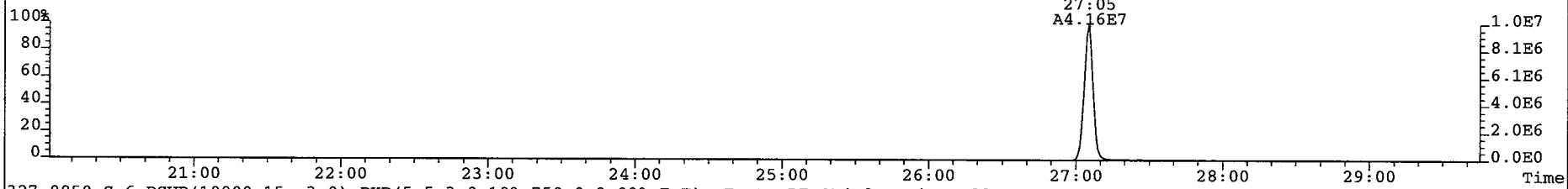


File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78

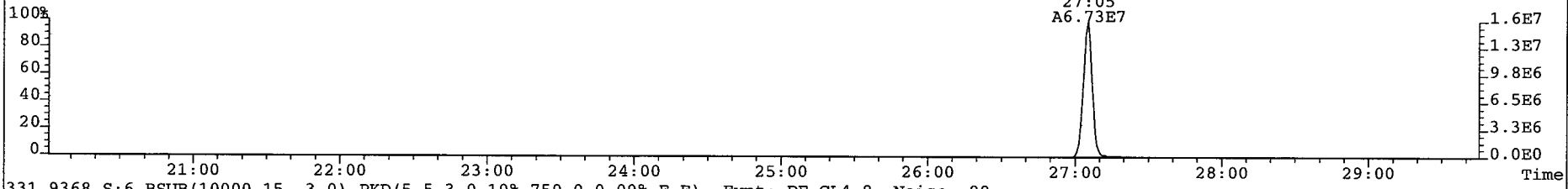
$$RRF = \frac{3.27e7 + 4.16e7}{1.49e7 + 1.82e7} \left(\frac{100}{200} \right) = 1.12$$



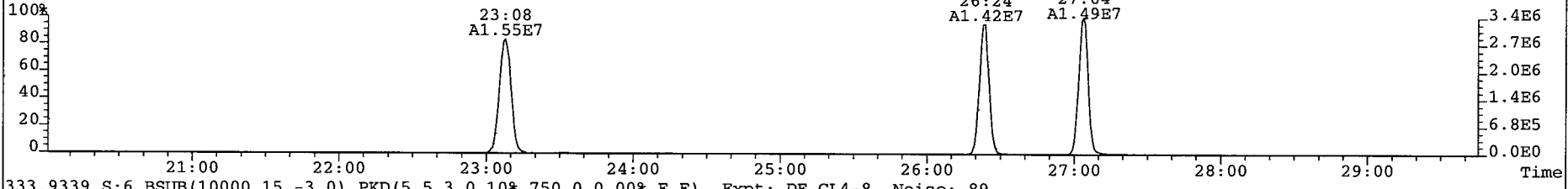
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



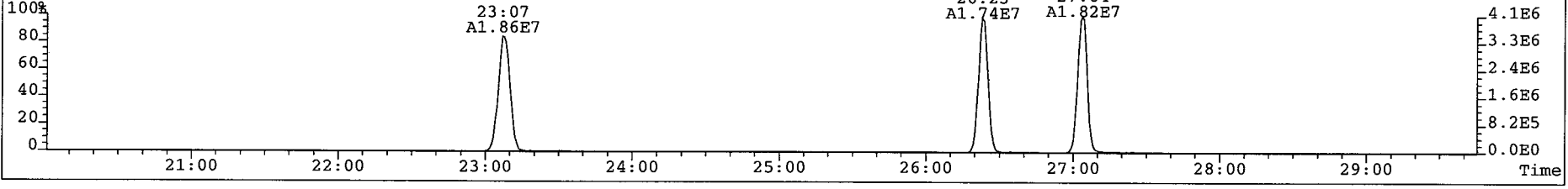
327.8850 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 90



331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 90



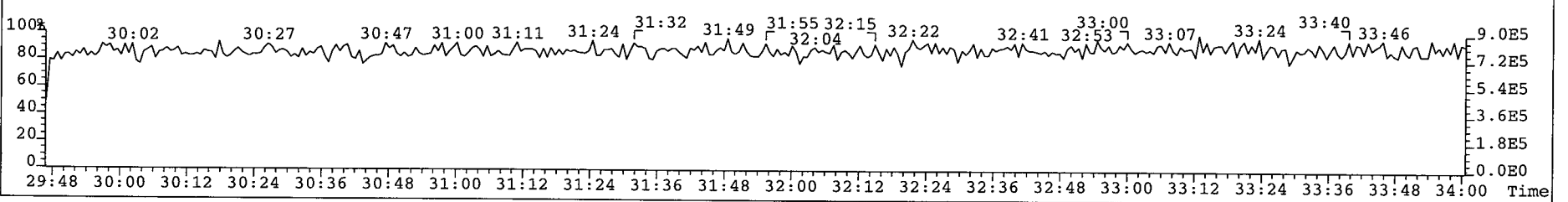
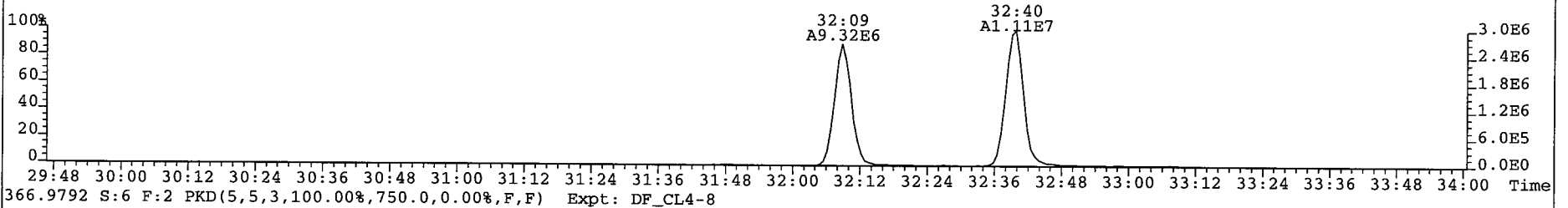
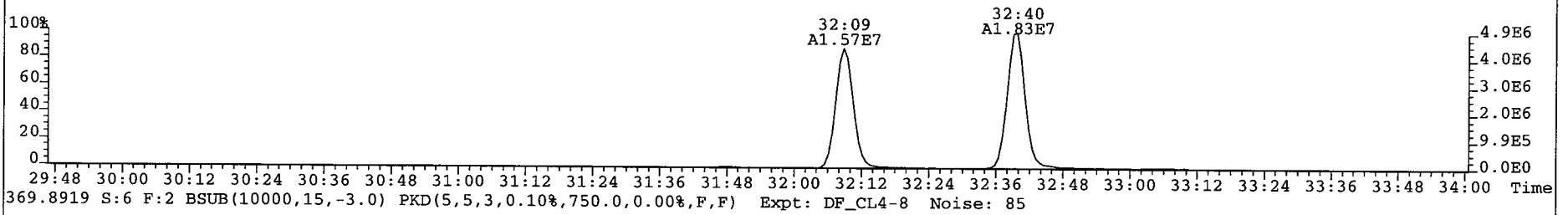
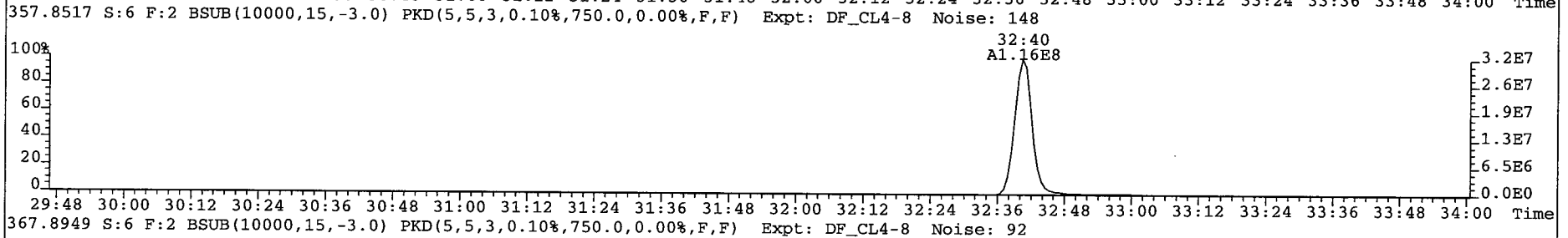
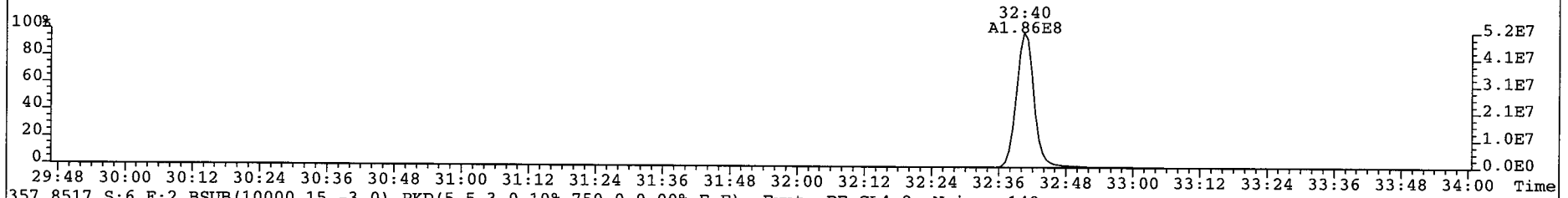
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5

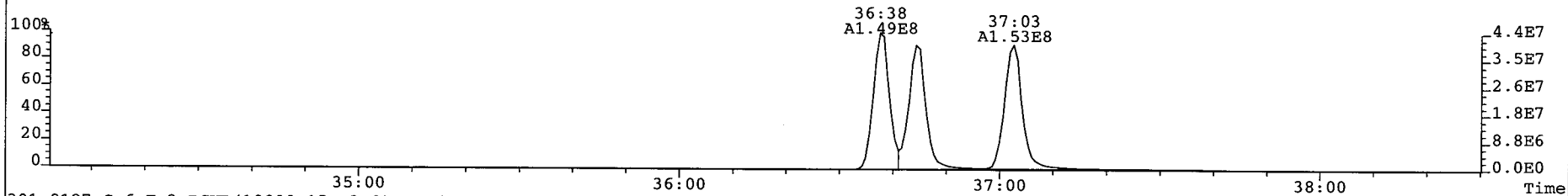
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 131



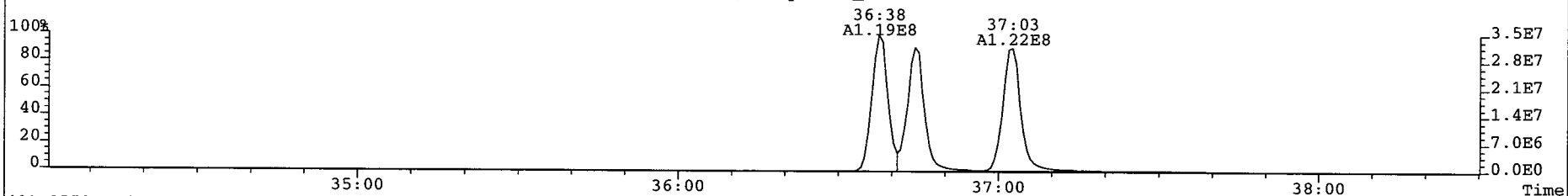
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5

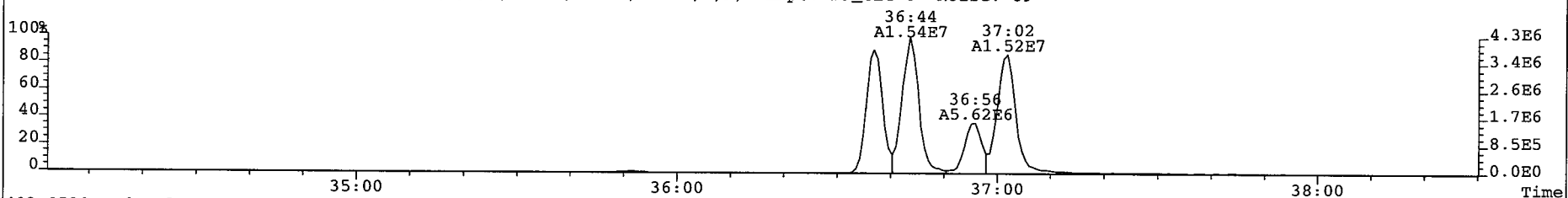
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 340



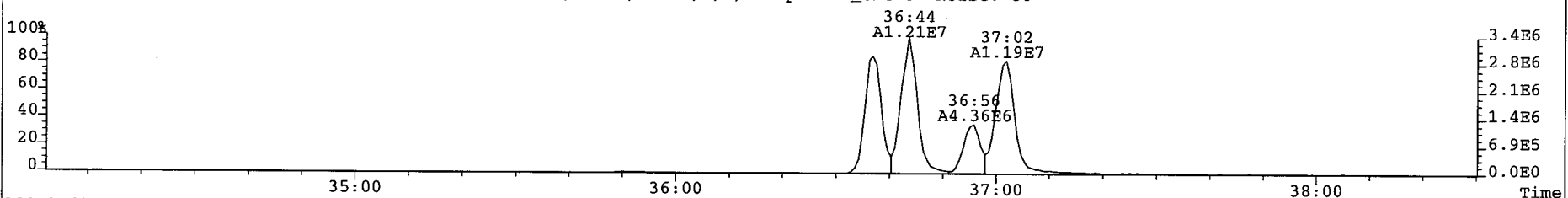
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 102



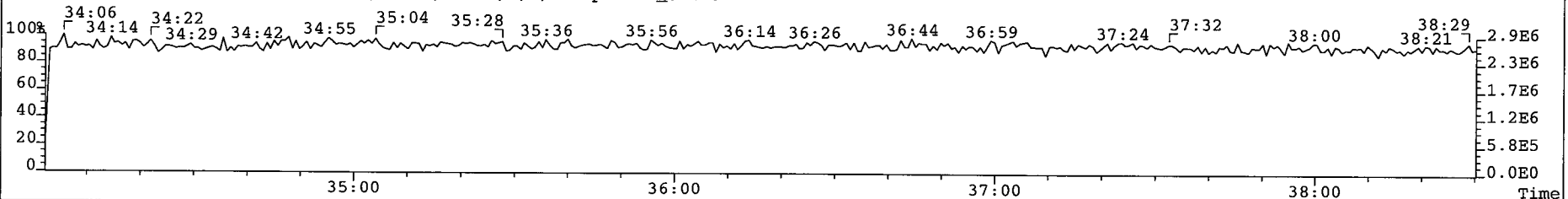
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



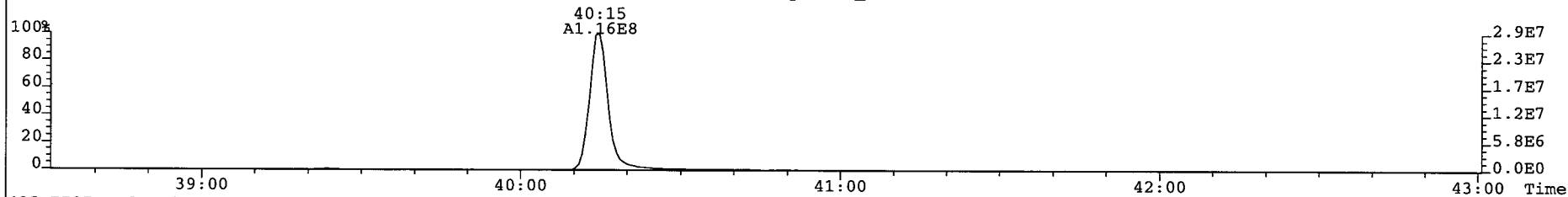
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



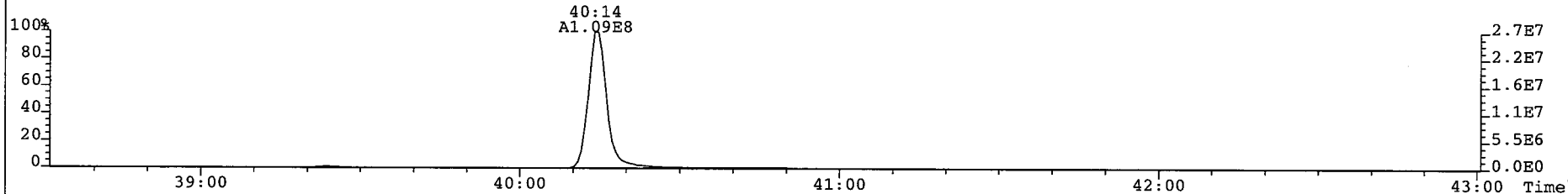
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



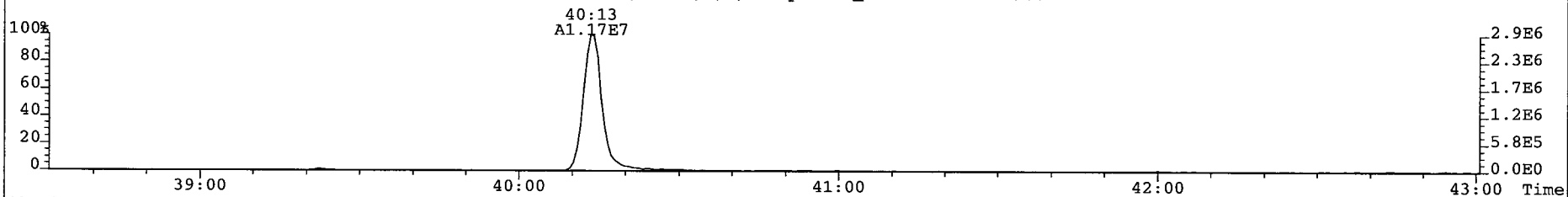
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
423.7767 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 4249



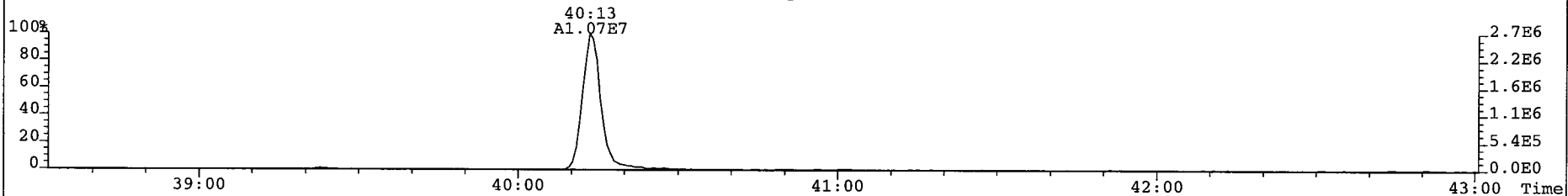
425.7737 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 4534



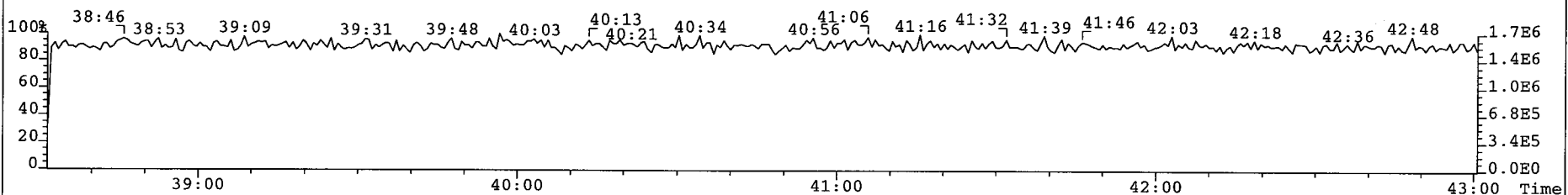
435.8169 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 906



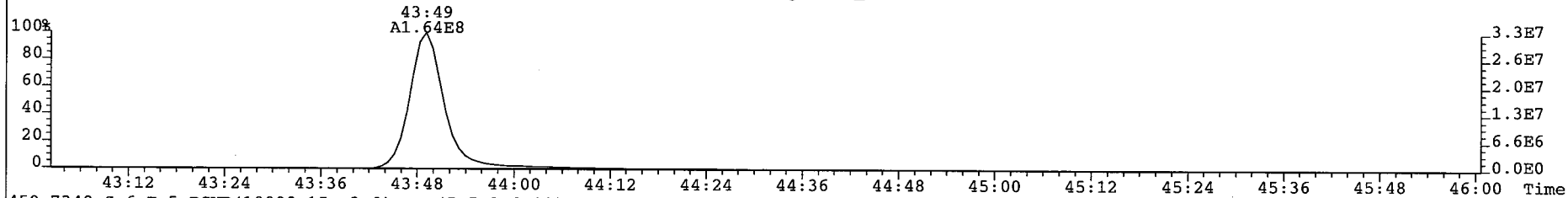
437.8140 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1134



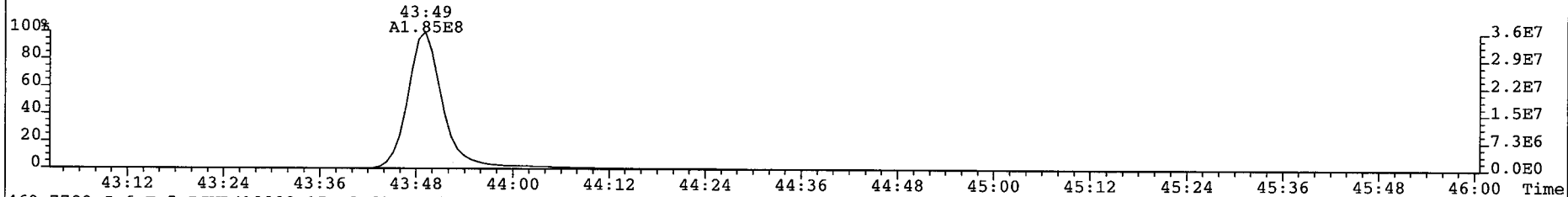
430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



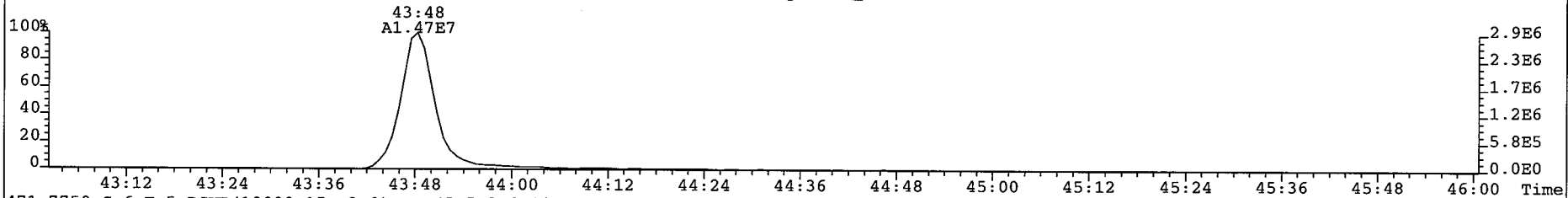
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1711



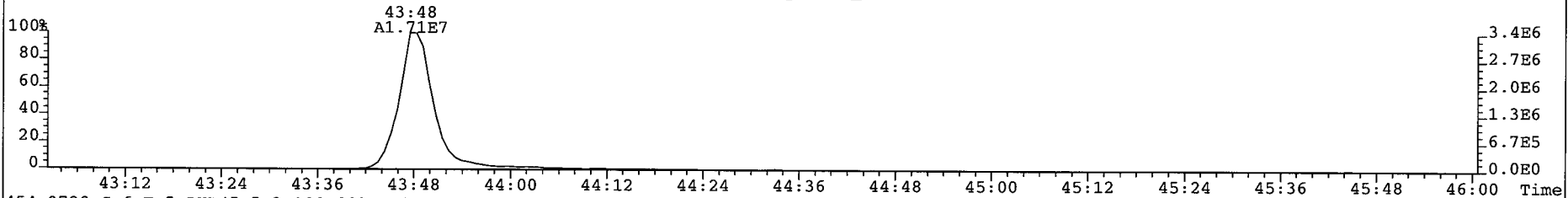
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2019



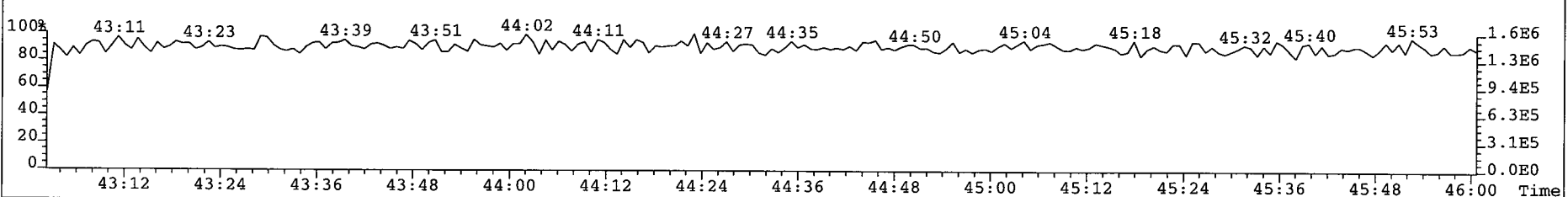
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 241



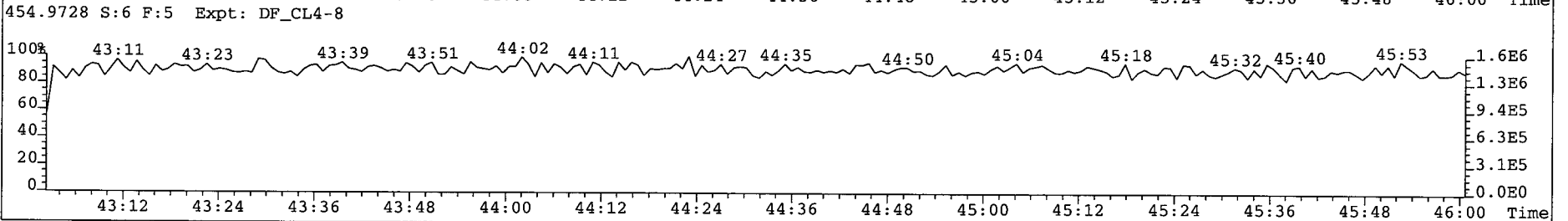
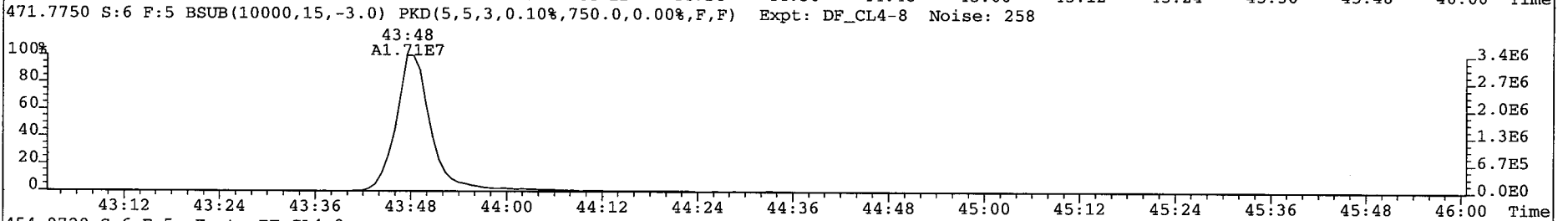
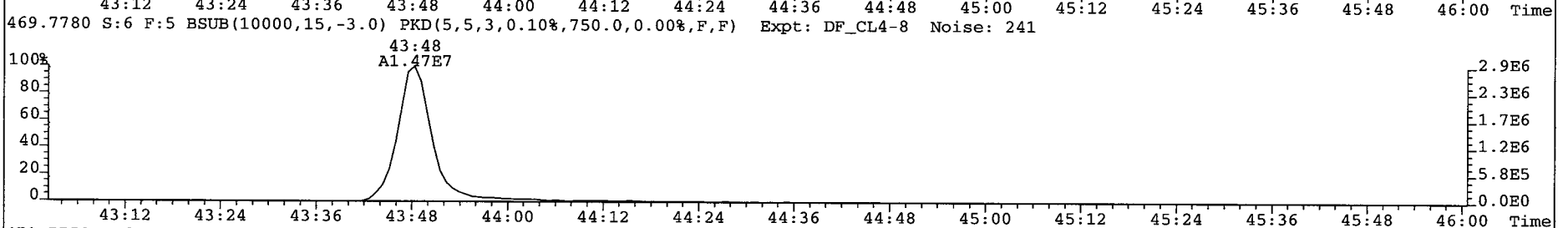
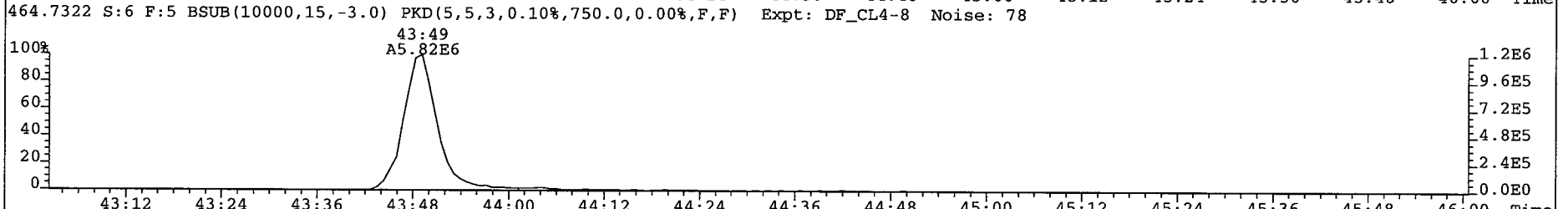
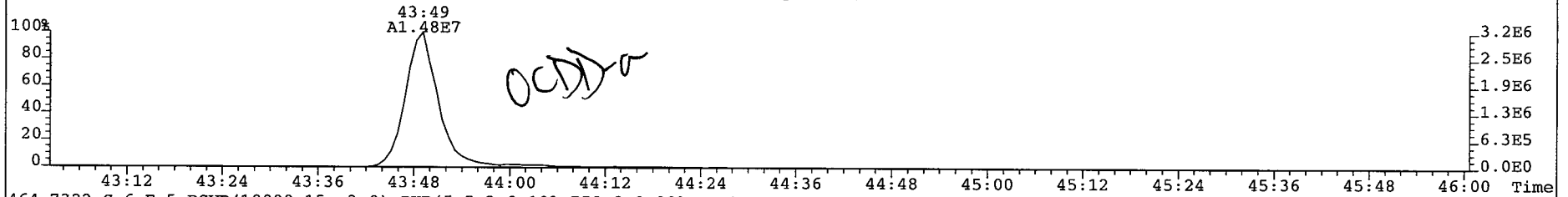
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 258



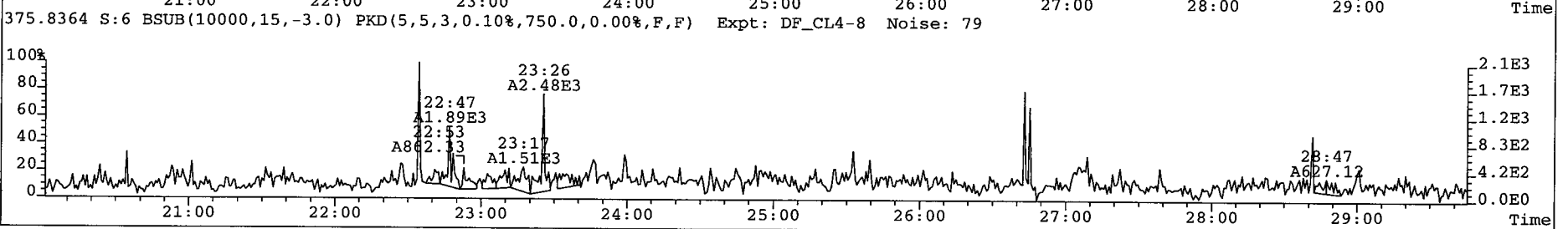
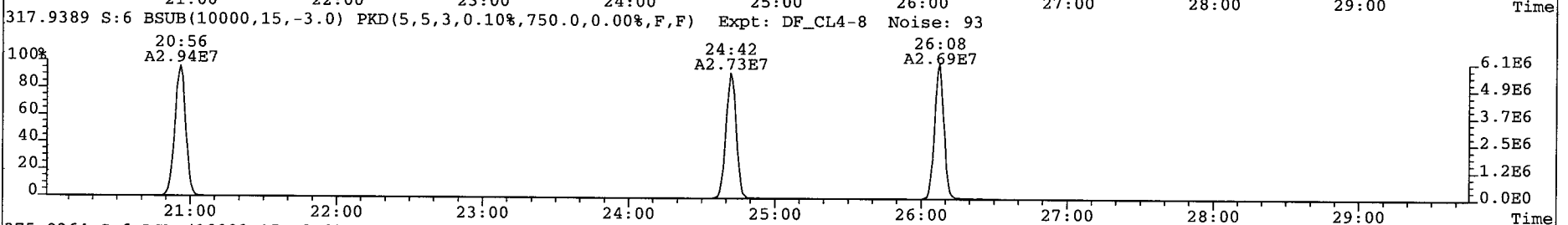
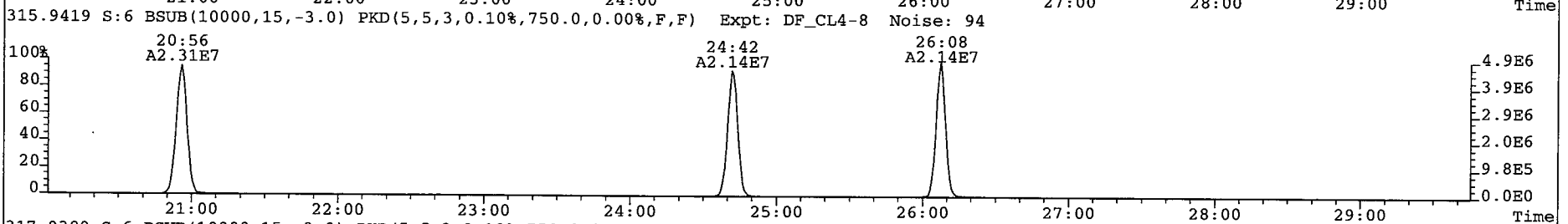
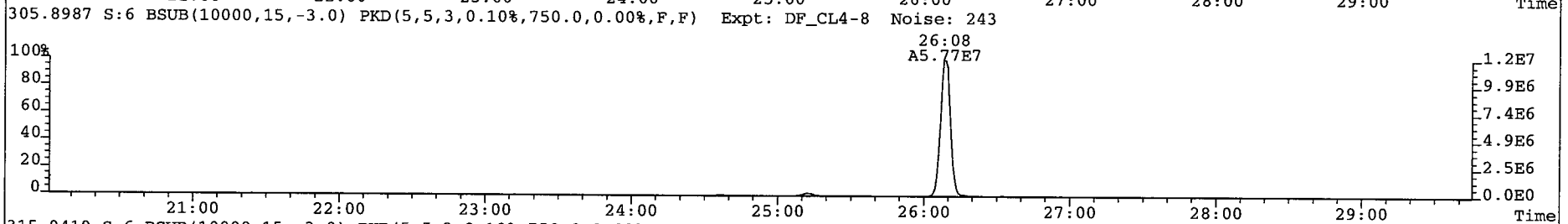
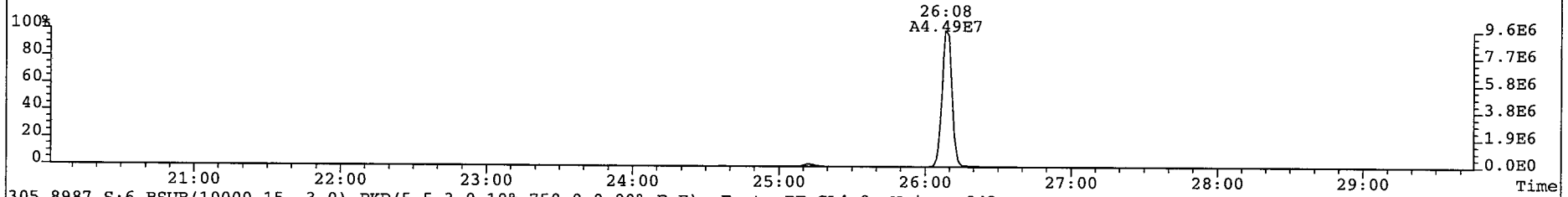
454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



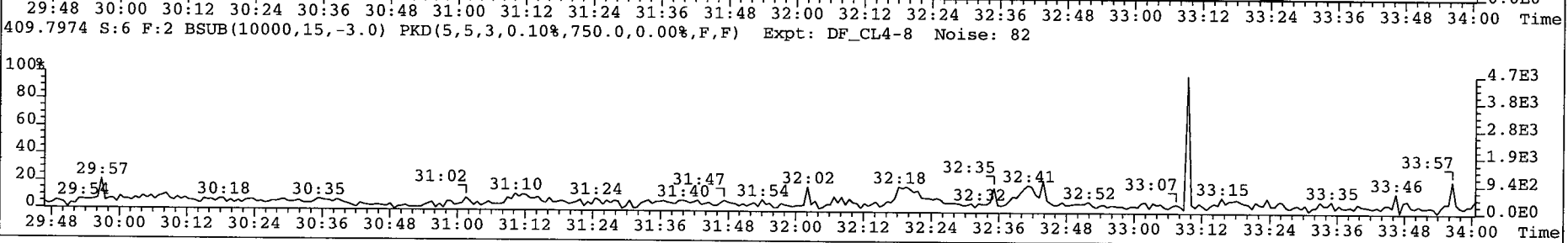
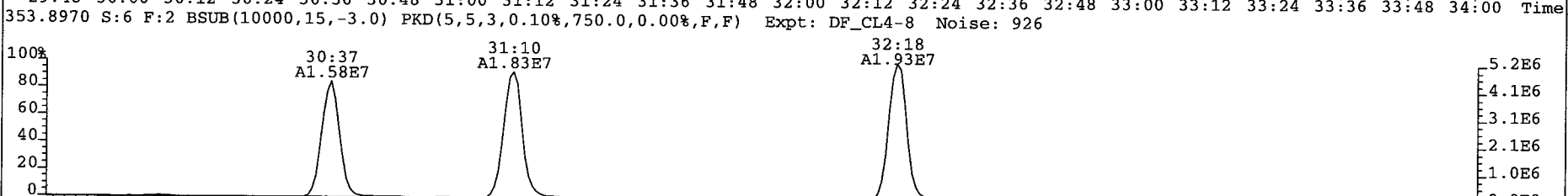
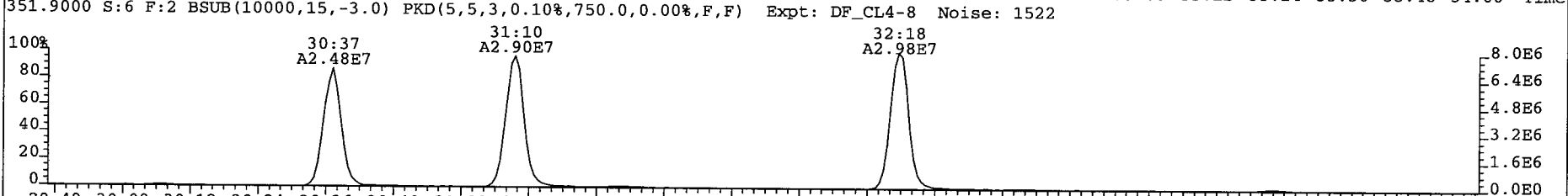
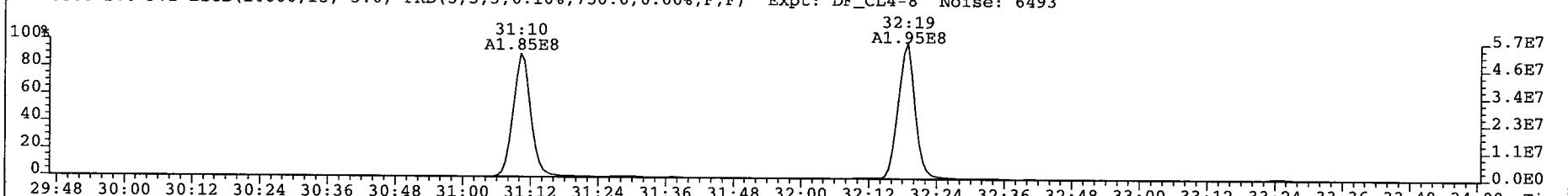
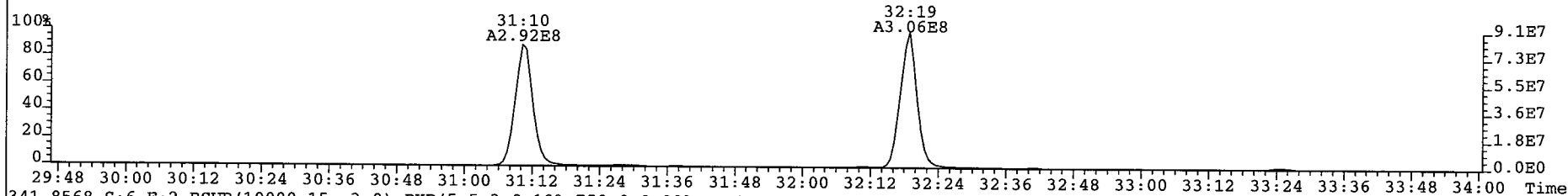
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
462.7352 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



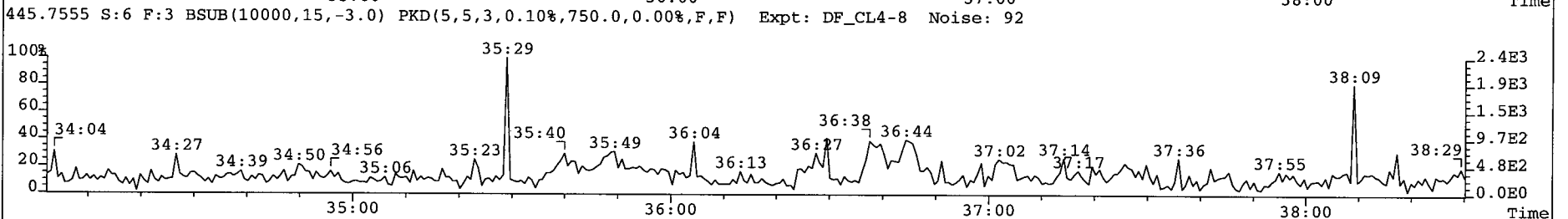
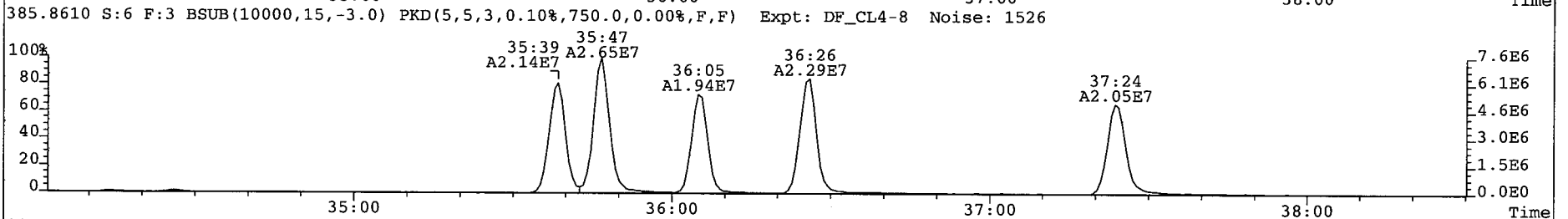
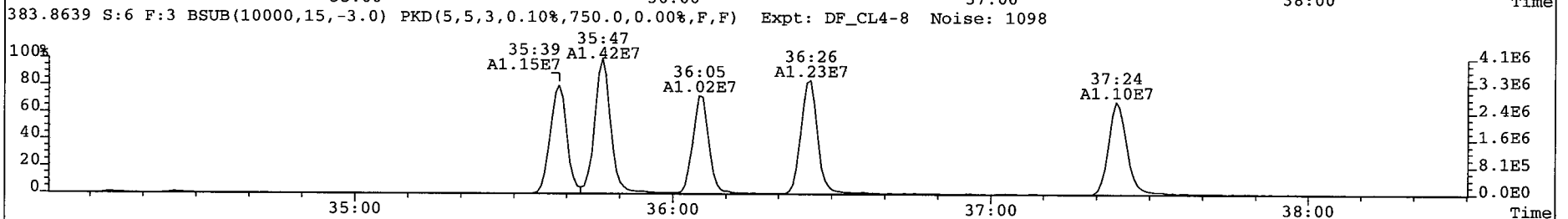
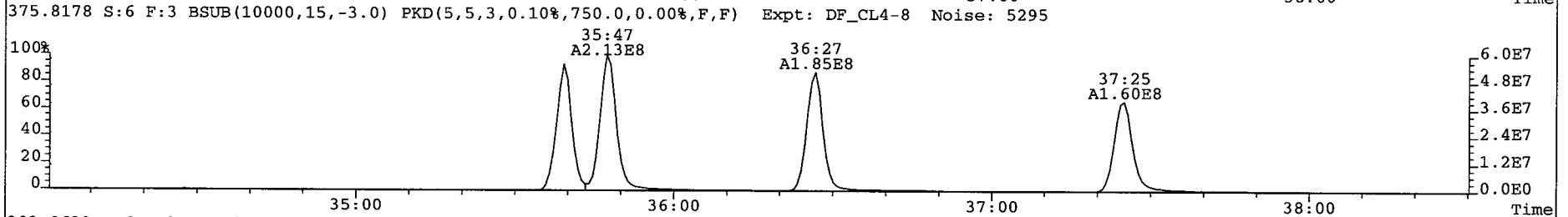
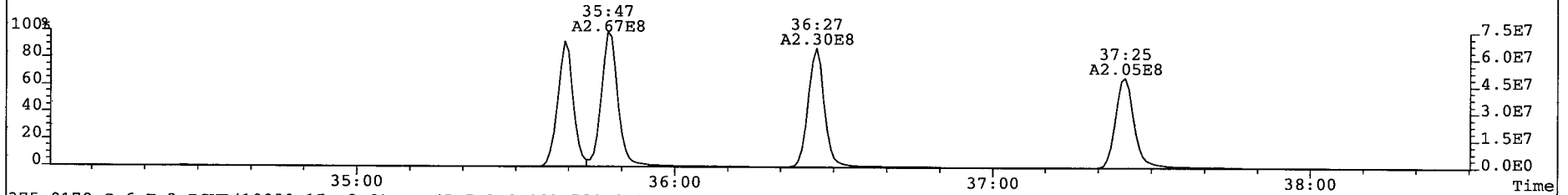
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 216



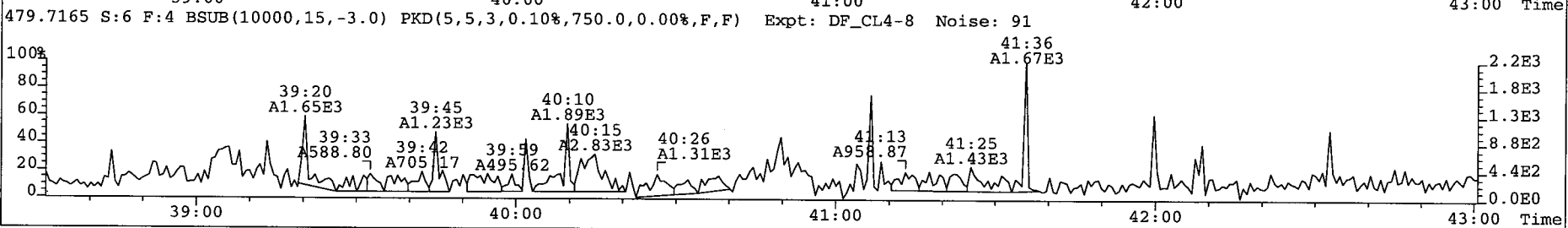
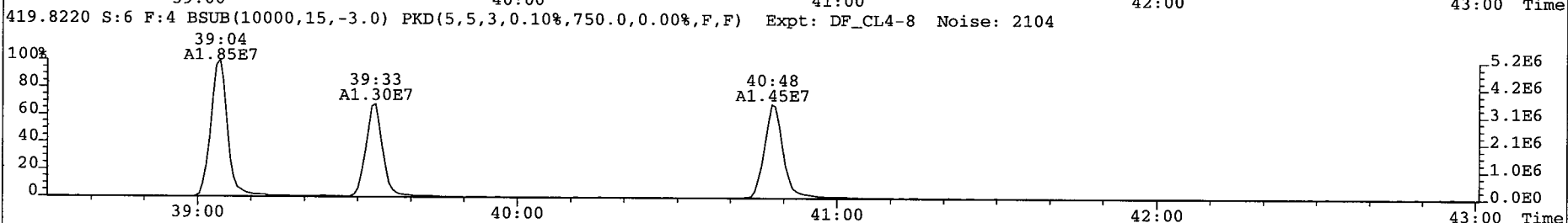
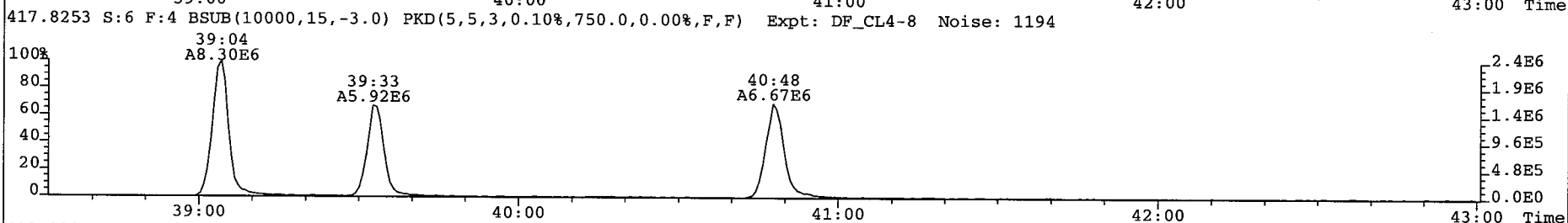
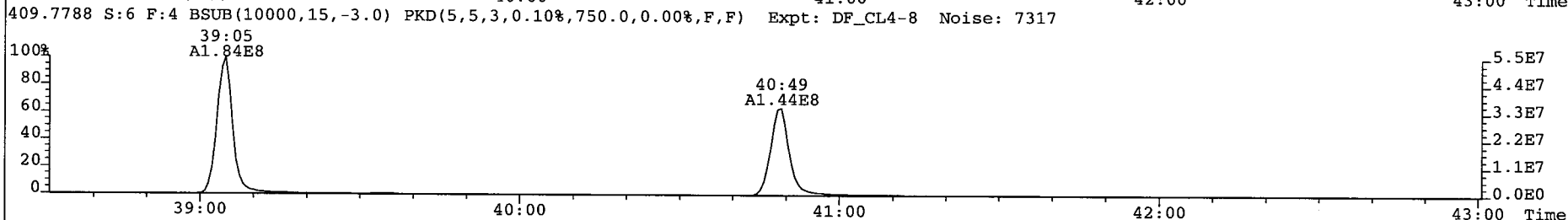
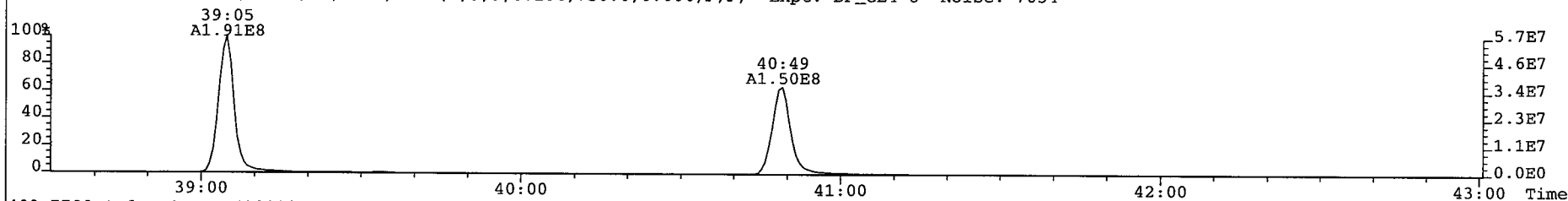
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 10465



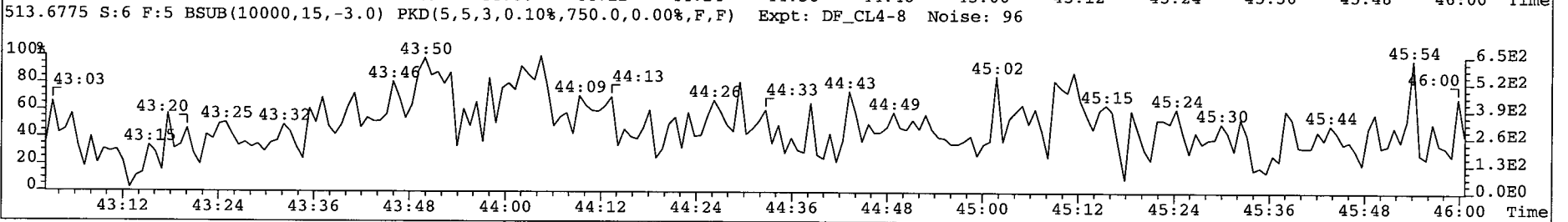
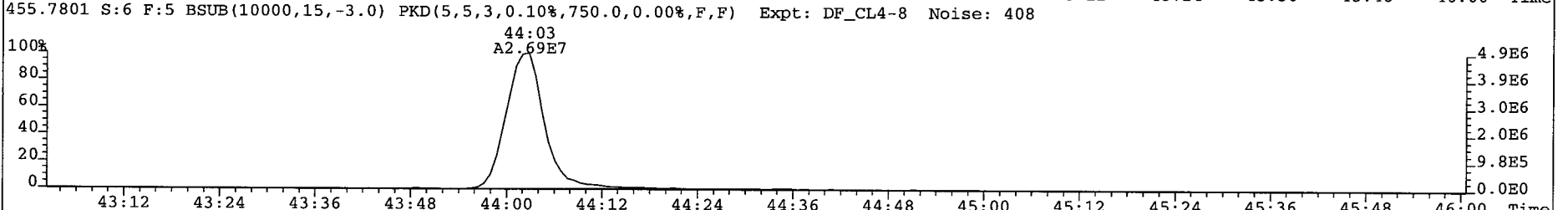
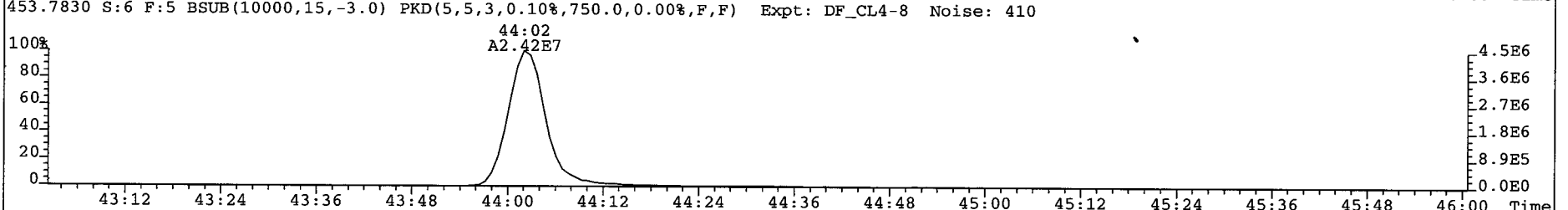
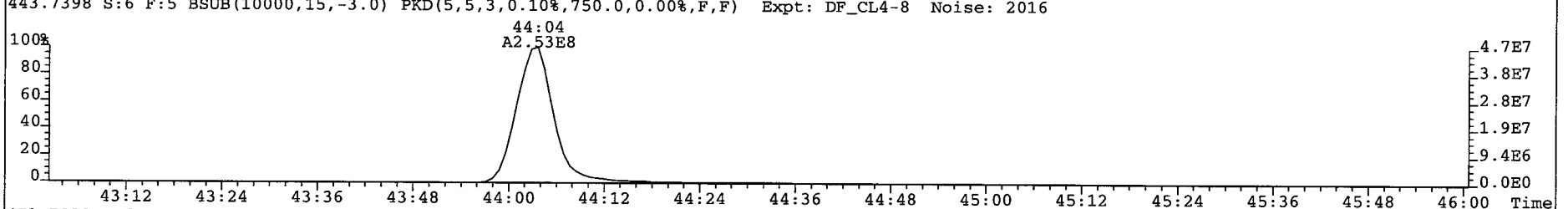
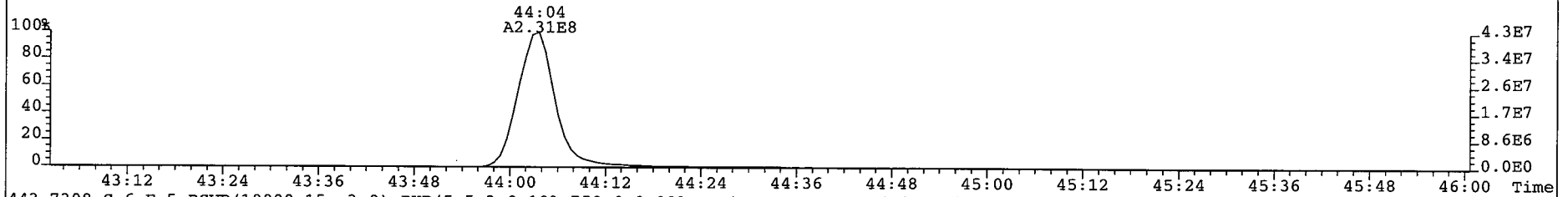
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 6804



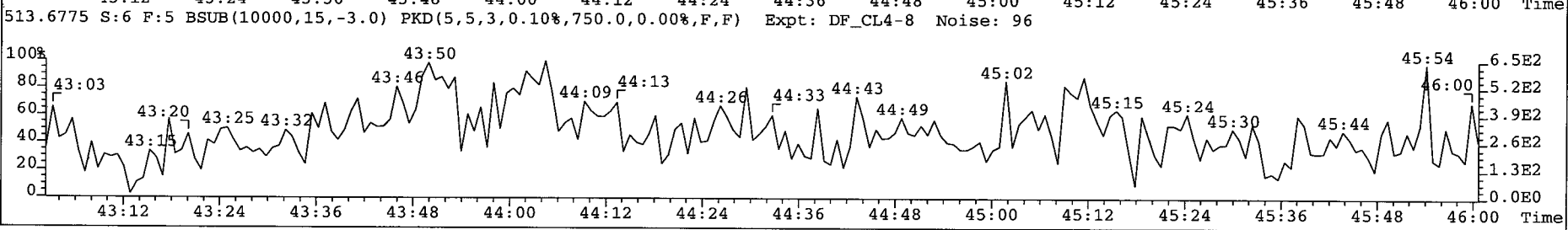
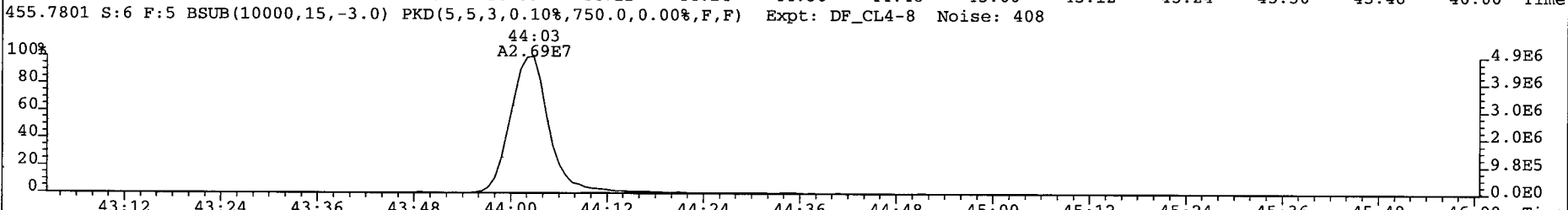
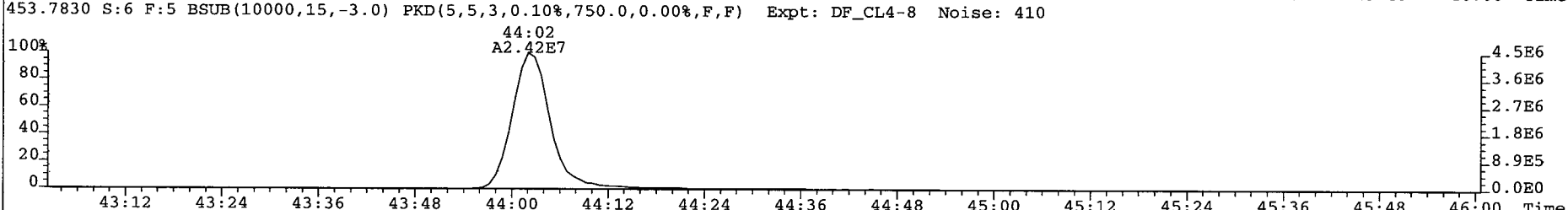
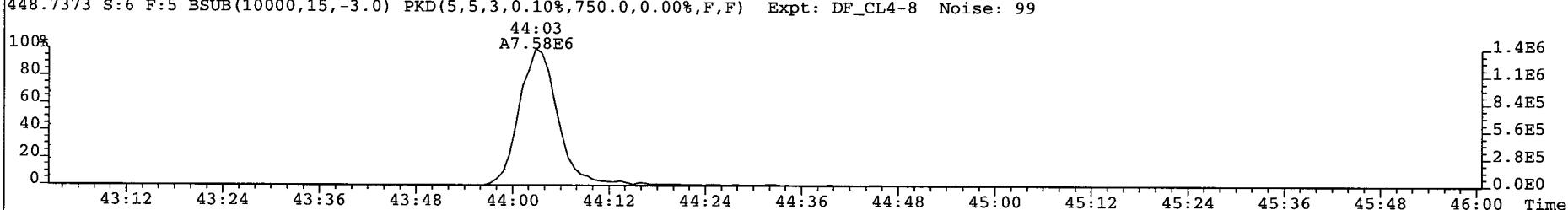
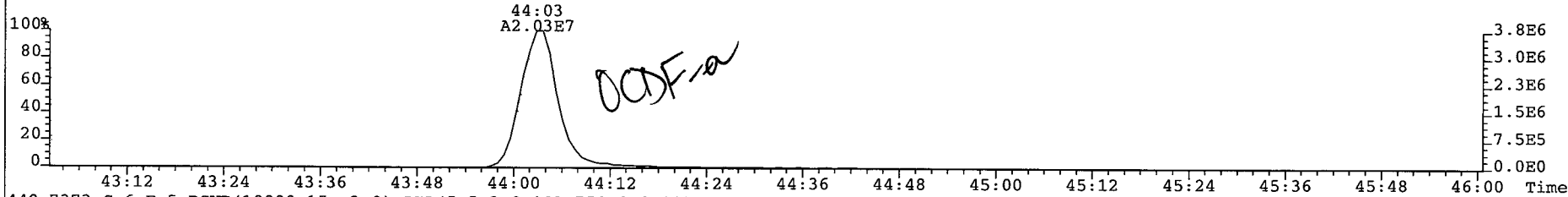
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 7054



File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2530



File: 081225Pl Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
446.7402 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 270



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW STDS CS6 ✓
 Lab ID: SIL7-25-1
 Sample text: SIL7-25-1 NEW STDS CS6

Filename: 081225P1 S: 7 ✓ Acq: 25-DEC-08 15:13:12
 GC Column ID: db-5 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 22

500pg/ml

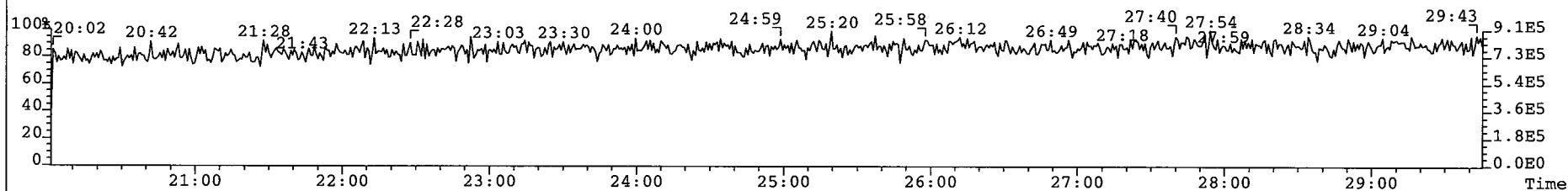
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	500.00	2.11e+08	0.79 y	27:05 ✓	1.16 ✓
2	Ax	1,2,3,7,8-PeCDD	2500.00	9.06e+08	1.62 y	32:41 ✓	1.05
3	Ax	1,2,3,4,7,8-HxCDD	2500.00	8.31e+08	1.25 y	36:38 ✓	1.12
4	Ax	1,2,3,6,7,8-HxCDD	2500.00	8.39e+08	1.26 y	36:45 ✓	0.99 ✓
5	Ax	1,2,3,7,8,9-HxCDD	2500.00	8.61e+08	1.25 y	37:03 ✓	1.04
6	Ax	1,2,3,4,6,7,8-HpCDD	2500.00	6.89e+08	1.07 y	40:15 ✓	1.03
7	Ax	OCDD	5000.00	1.13e+09	0.89 y	43:51 ✓	1.14 ✓
8	Ax2	OCDD-a	5000.00	6.83e+07	2.55 y	43:50	0.07
9	Ax	2,3,7,8-TCDF	500.00	3.13e+08	0.79 y	26:09 ✓	1.10 ✓
10	Ax	1,2,3,7,8-PeCDF	2500.00	1.44e+09	1.59 y	31:11 ✓	1.03
11	Ax	2,3,4,7,8-PeCDF	2500.00	1.52e+09	1.58 y	32:19 ✓	1.05
12	Ax	1,2,3,4,7,8-HxCDF	2500.00	1.26e+09	1.27 y	35:39 ✓	1.28 ✓
13	Ax	1,2,3,6,7,8-HxCDF	2500.00	1.49e+09	1.28 y	35:48 ✓	1.22
14	Ax	2,3,4,6,7,8-HxCDF	2500.00	1.27e+09	1.26 y	36:27 ✓	1.19
15	Ax	1,2,3,7,8,9-HxCDF	2500.00	1.12e+09	1.26 y	37:25 ✓	1.18 ✓
16	Ax	1,2,3,4,6,7,8-HpCDF	2500.00	1.14e+09	1.04 y	39:05 ✓	1.42
17	Ax	1,2,3,4,7,8,9-HpCDF	2500.00	9.39e+08	1.04 y	40:50 ✓	1.41
18	Ax	OCDF	5000.00	1.57e+09	0.92 y	44:04 ✓	0.97 ✓
19	Ax2	OCDF-a	5000.00	9.09e+07	2.67 y	44:04	0.06
20	ES	13C-2,3,7,8-TCDD	100.00	3.65e+07	0.81 y	27:04	1.04 ✓
21	ES	13C-1,2,3,7,8-PeCDD	100.00	3.44e+07	1.65 y	32:40	0.98
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.97e+07	1.29 y	36:37	1.26
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	3.38e+07	1.27 y	36:44	1.43 ✓
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	3.30e+07	1.27 y	37:02	1.40
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.68e+07	1.07 y	40:14	1.14
26	ES	13C-OCDD	200.00	3.96e+07	0.89 y	43:49	0.84 ✓
27	ES	13C-2,3,7,8-TCDF	100.00	5.70e+07	0.80 y	26:08	1.00 ✓
28	ES	13C-1,2,3,7,8-PeCDF	100.00	5.56e+07	1.59 y	31:10	0.98
29	ES	13C-2,3,4,7,8-PeCDF	100.00	5.80e+07	1.60 y	32:18	1.02
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	3.94e+07	0.53 y	35:38	1.67 ✓
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	4.87e+07	0.54 y	35:47	2.07
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	4.27e+07	0.54 y	36:26	1.81
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	3.82e+07	0.54 y	37:24	1.62 ✓
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.21e+07	0.47 y	39:04	1.36
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.66e+07	0.46 y	40:48	1.13
36	ES	13C-OCDF	200.00	6.45e+07	0.91 y	44:03	1.37 ✓
37	CS	37C1-2,3,7,8-TCDD	500.00	*		NotF>	*
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.79e+07	1.72 y	32:09	0.80 ✓
39	CS	13C-1,2,3,4,6-PeCDF	100.00	4.56e+07	1.58 y	30:37	0.80
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	3.36e+07	0.54 y	36:05	1.43 ✓
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.14e+07	0.46 y	39:33	0.91 ✓
42	NA	n/a	100.00	*	* n	NotF>	*
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.51e+07	0.83 y	26:23	3.51e+05
44	JS	13C-1,2,3,4-TCDF	100.00	5.70e+07	0.78 y	24:42	5.70e+05
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	1.18e+07	1.29 y	36:55	2.36e+05

✓ calc.

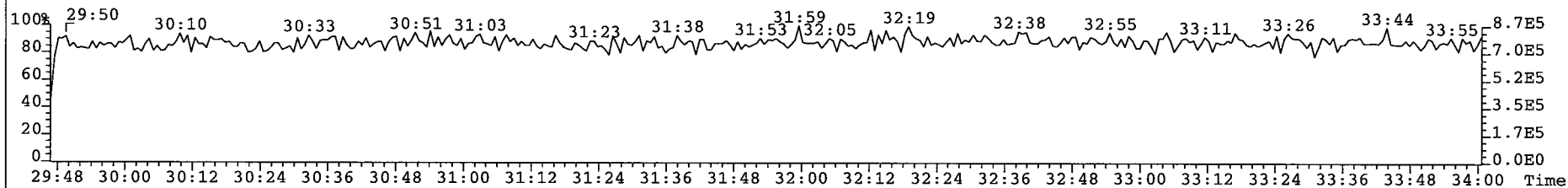
Analyst: *[Signature]*
 Date: *26 Dec 08*

46	SS	37Cl-2,3,7,8-TCDD	500.00	*		NotF>>	-	*
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.79e+07	1.72 y	32:09	-	0.81
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.56e+07	1.58 y	30:37	-	0.82 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.36e+07	0.54 y	36:05	-	0.69
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.14e+07	0.46 y	39:33	-	0.67 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.10 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.16 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.16
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.16
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.05
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.05
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.05 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.03
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.10 -
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.10
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.10
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.10
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.04 ✓
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.22 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.16
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.05
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.05
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.03
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.10
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.04
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.22
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.42
73	Tot	TCDD EMPC	-	-	- n	-	-	1.16
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.05
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.05
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.03
77	Tot	TCDF EMPC	-	-	- n	-	-	1.10
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.04
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.22
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.42
81	AS	13C-1,3,6,8-TCDD	100.00	3.90e+07	0.83 y	23:08	-	1.11 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.30e+07	0.78 y	20:56	-	1.11 ✓
83	DPE	HxCDPE	-	3.79e+04		21:06	-	-
84	DPE	HpCDPE	-	5.22e+04		30:10	-	-
85	DPE	OCDFPE	-	5.00e+04		35:41	-	-
86	DPE	NCDPE	-	2.59e+04		38:42	-	-
87	DPE	DCDFPE	-	*		NotF>>	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-

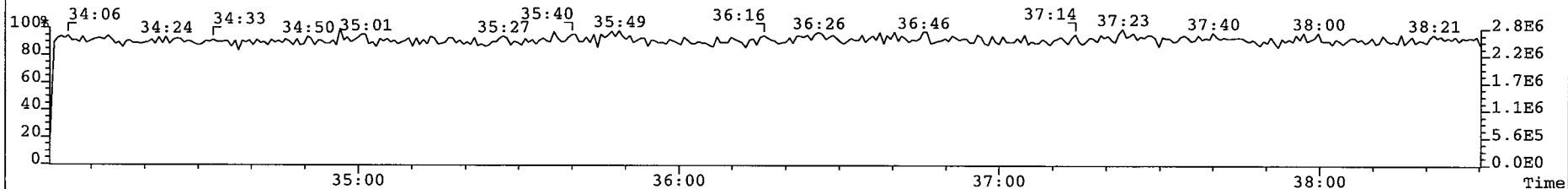
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



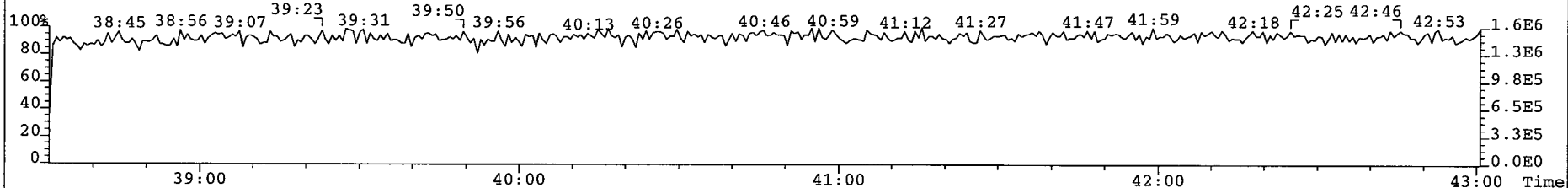
366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



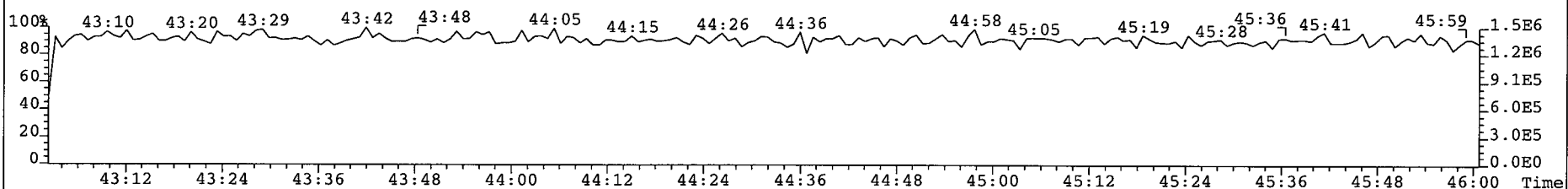
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



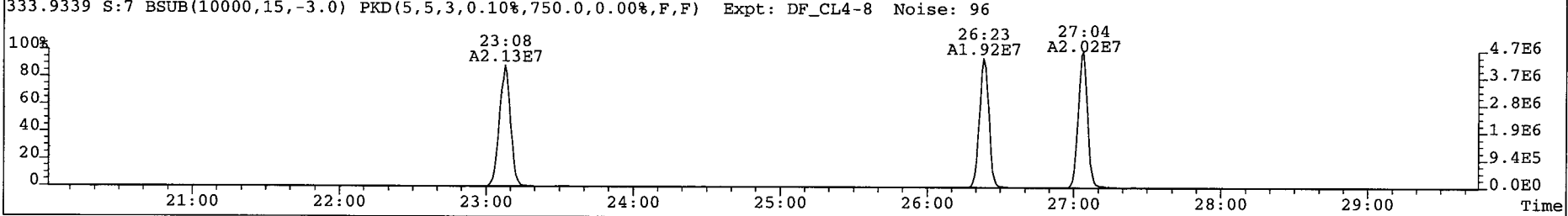
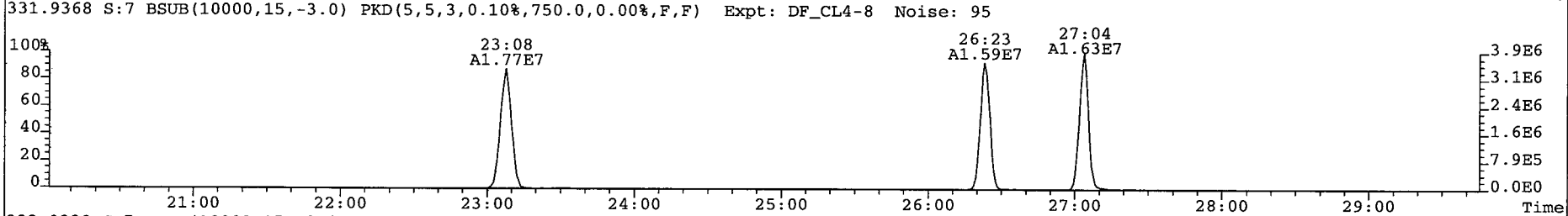
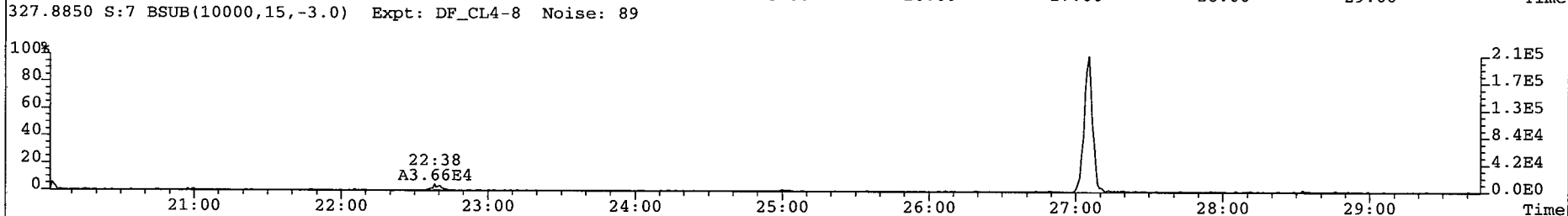
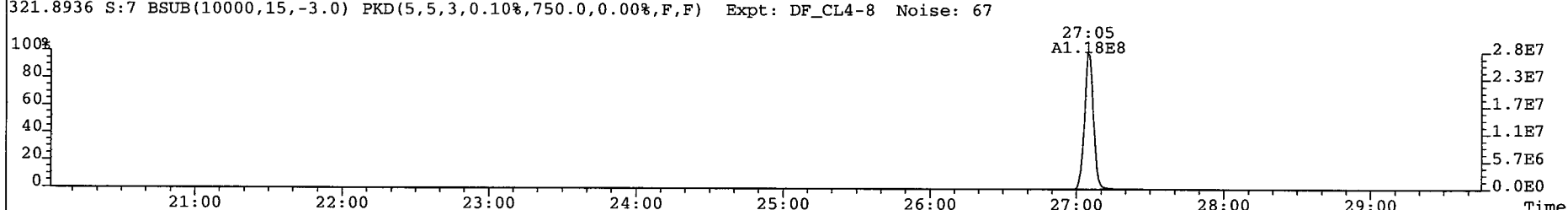
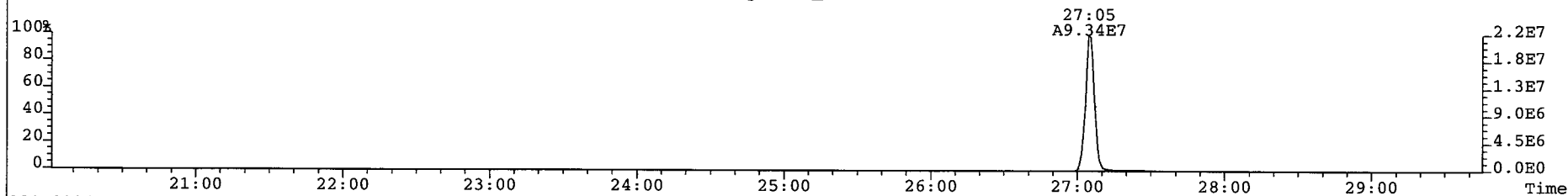
430.9728 S:7 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



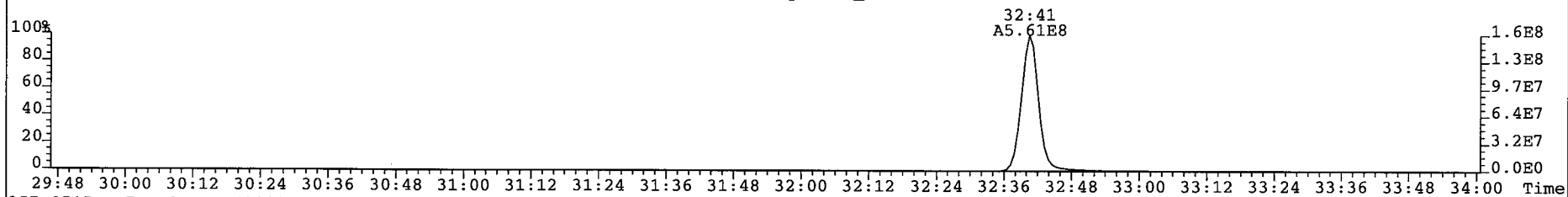
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 83



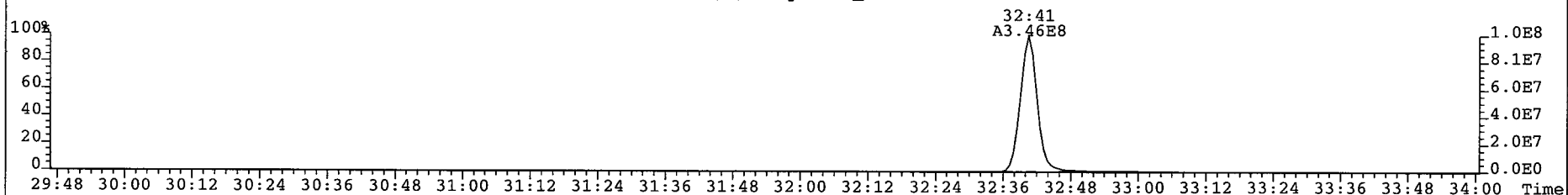
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5

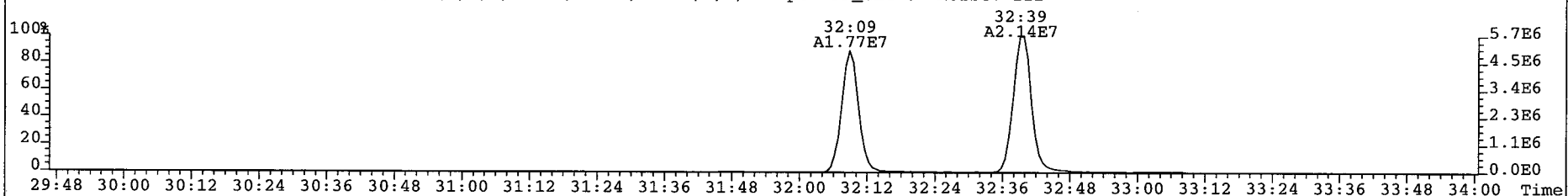
355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 558



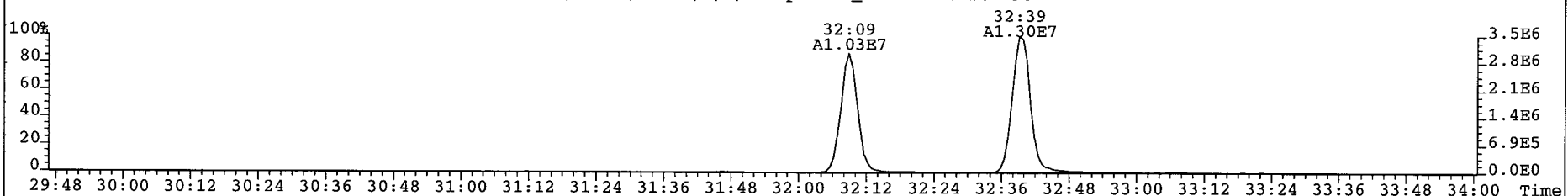
357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 235



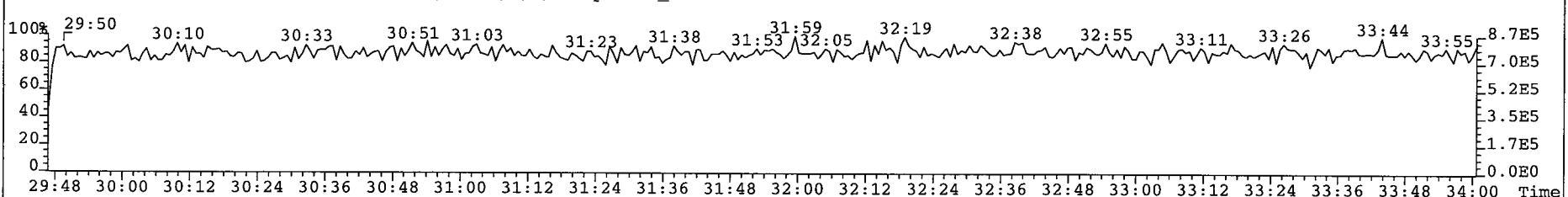
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 111



369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



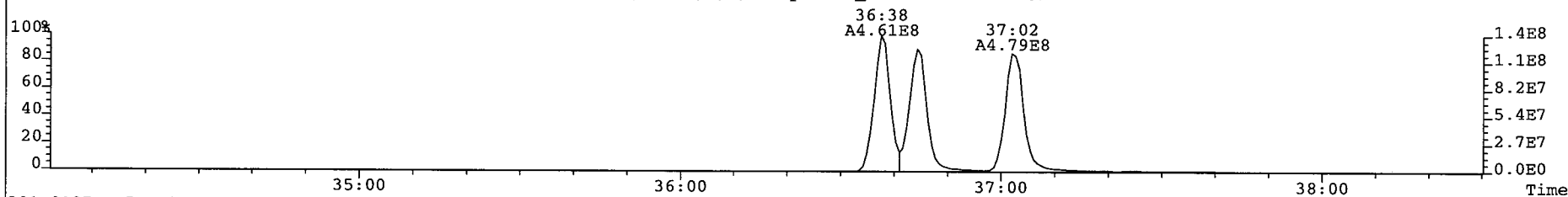
366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



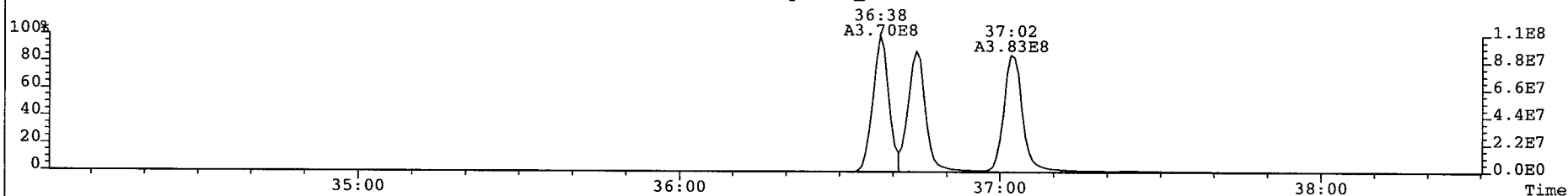
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5

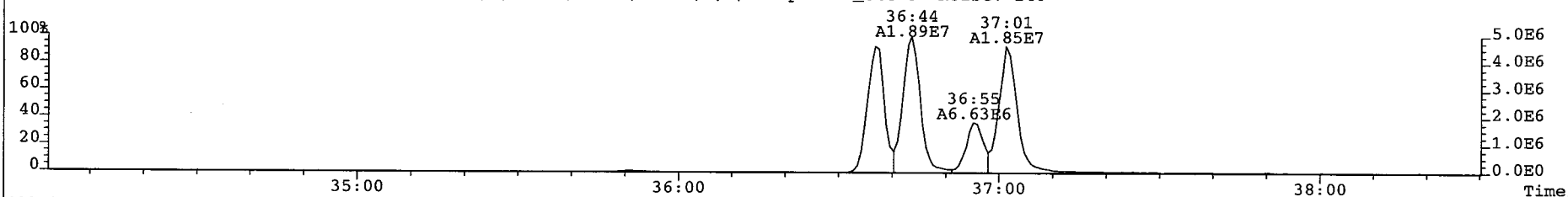
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 252



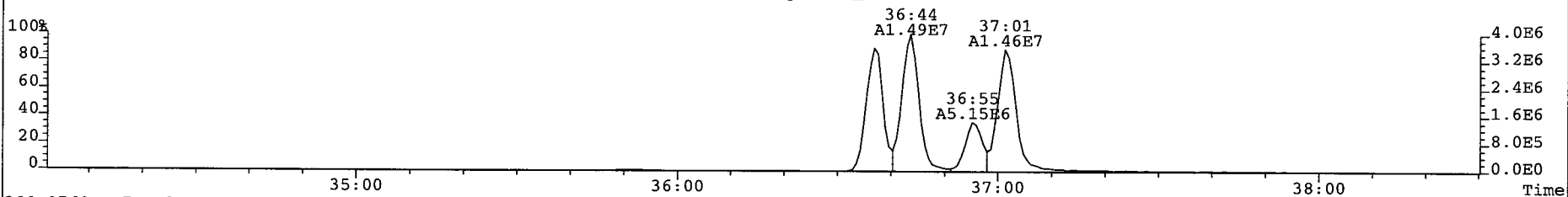
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 311



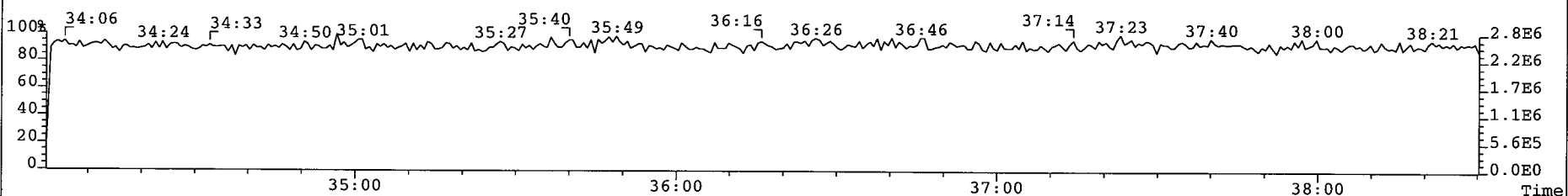
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 140



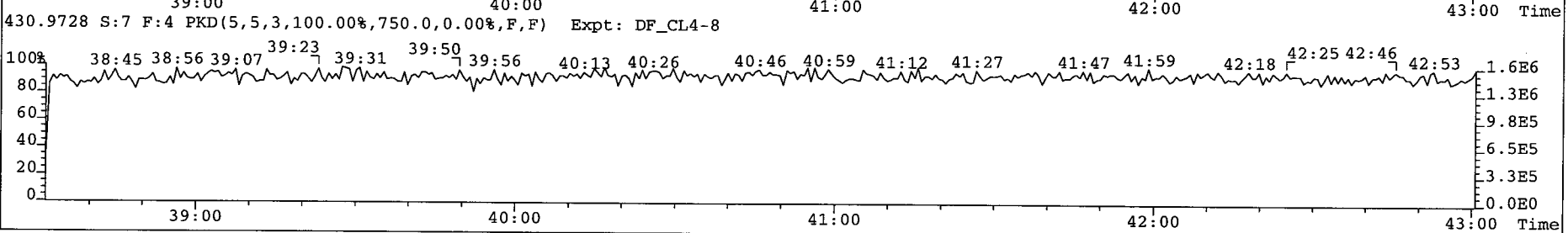
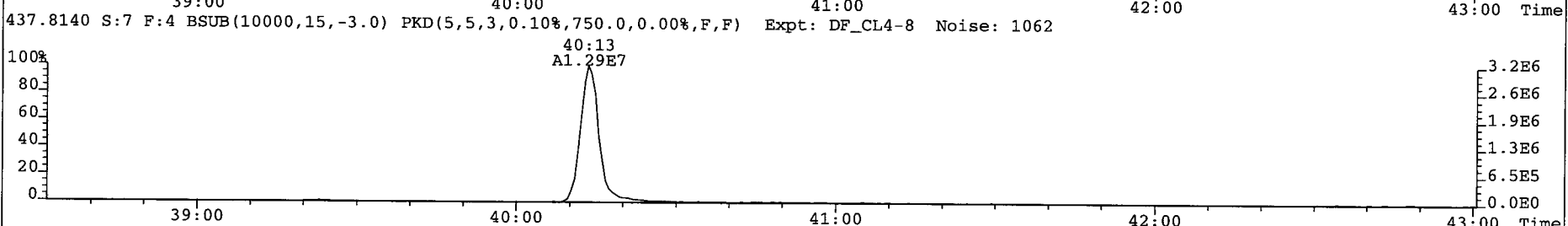
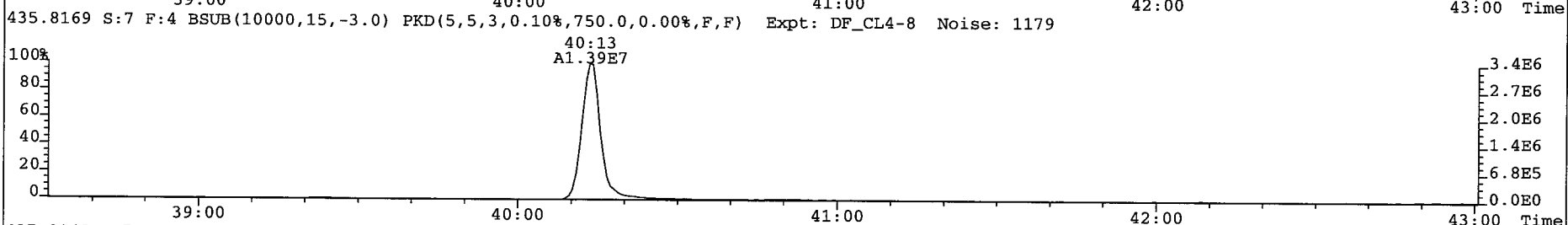
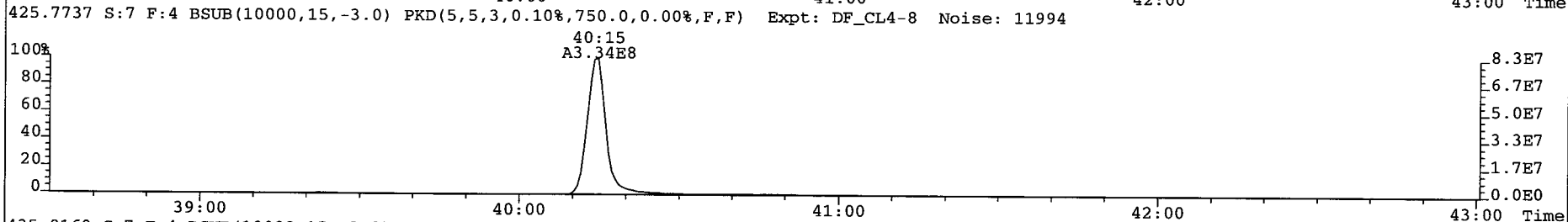
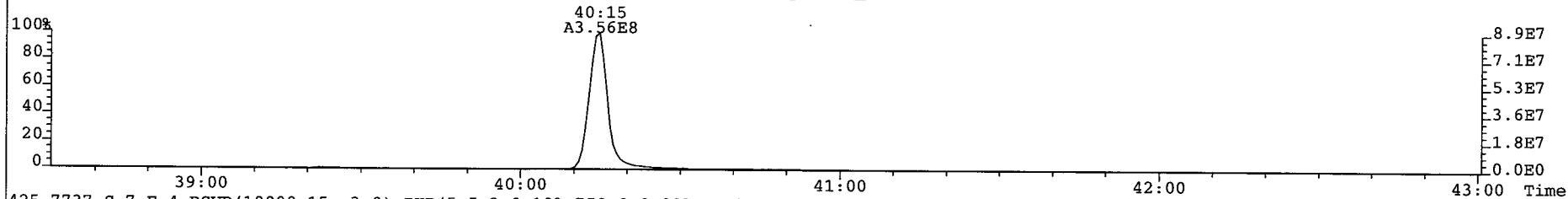
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 119



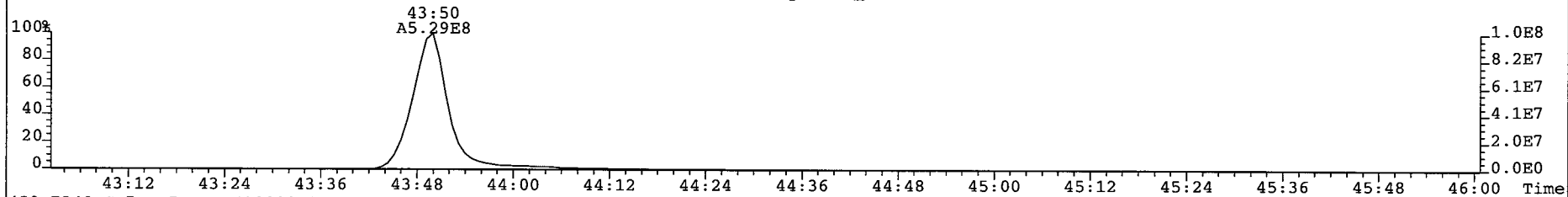
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



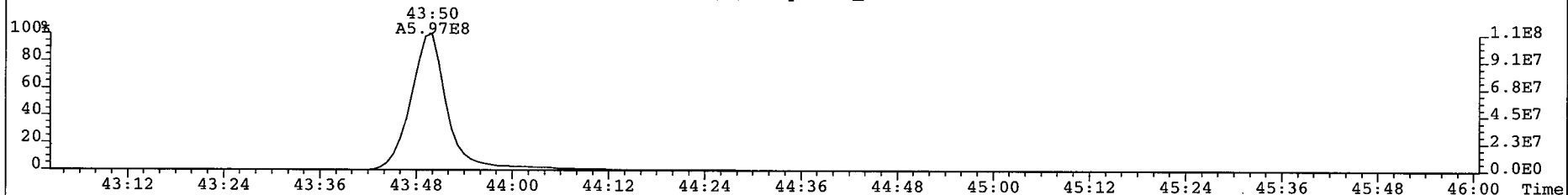
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 11889



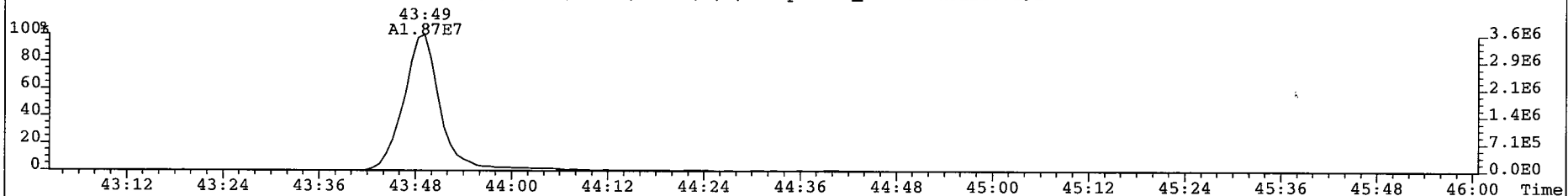
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 3948



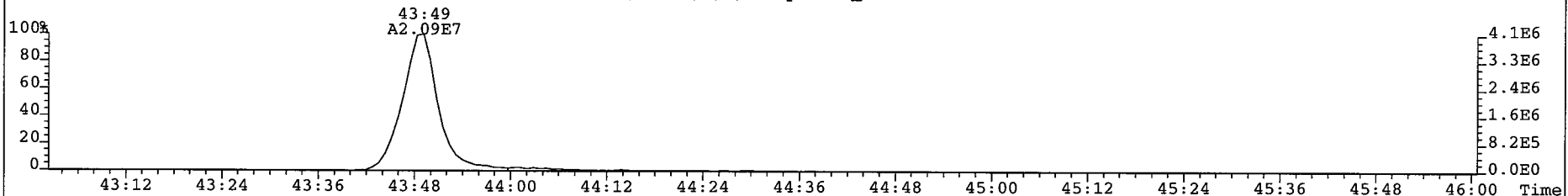
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 3160



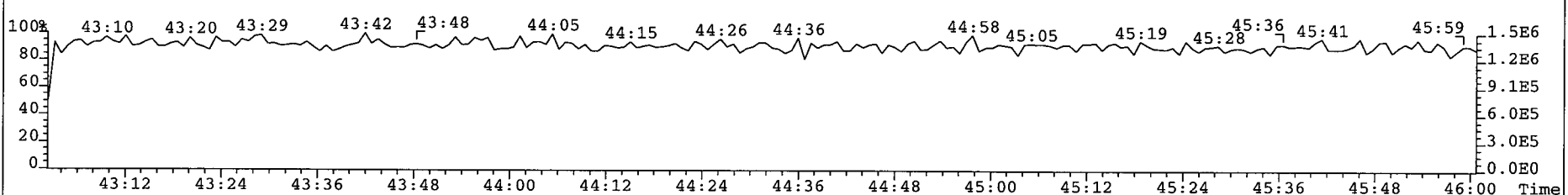
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 192



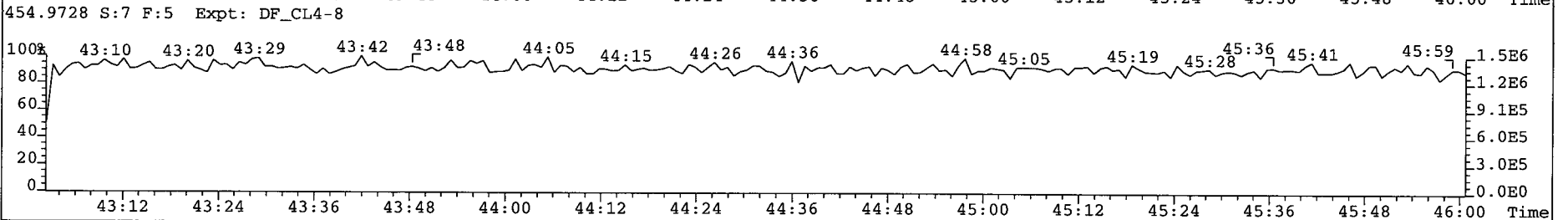
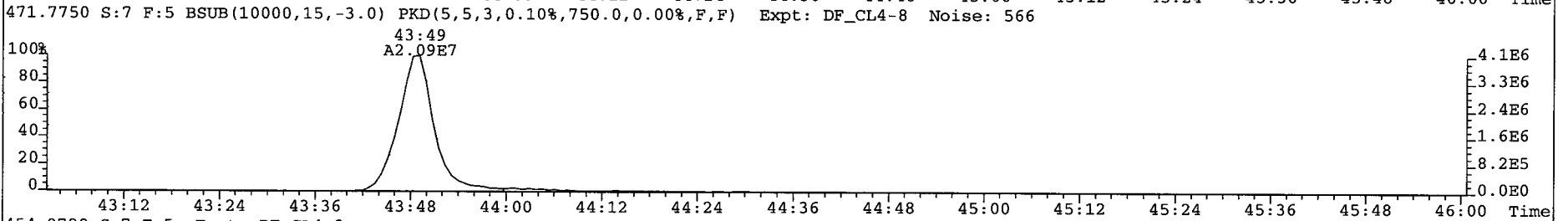
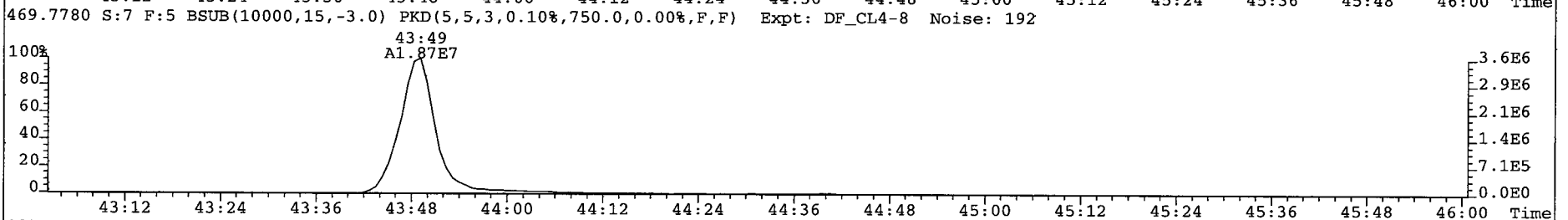
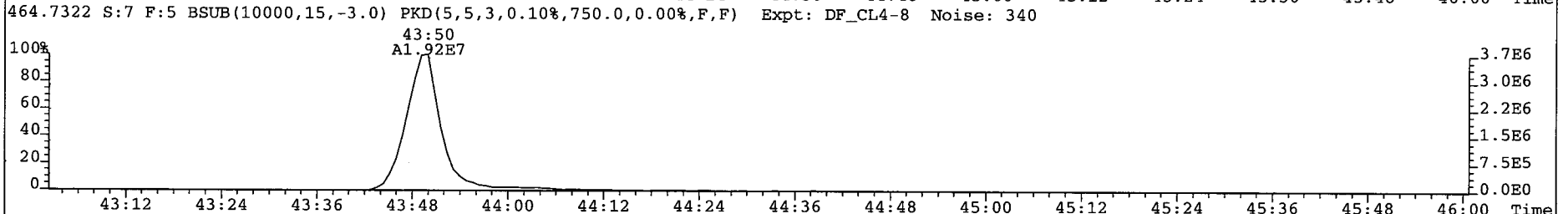
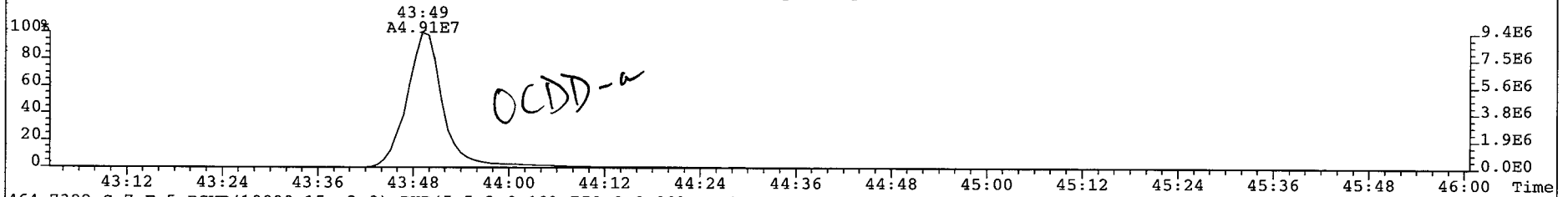
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 566



454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



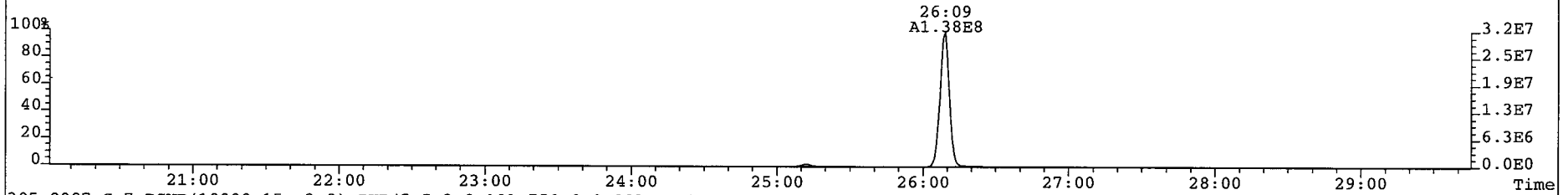
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
462.7352 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 962



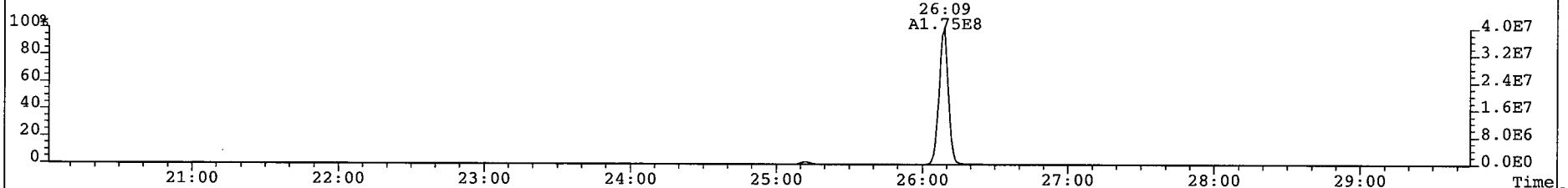
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5

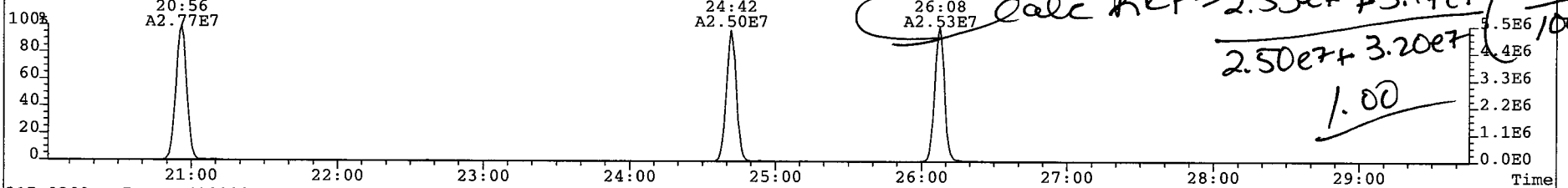
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 611



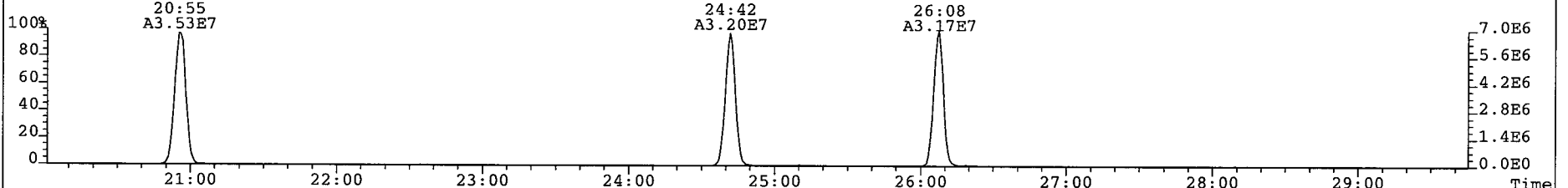
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 567



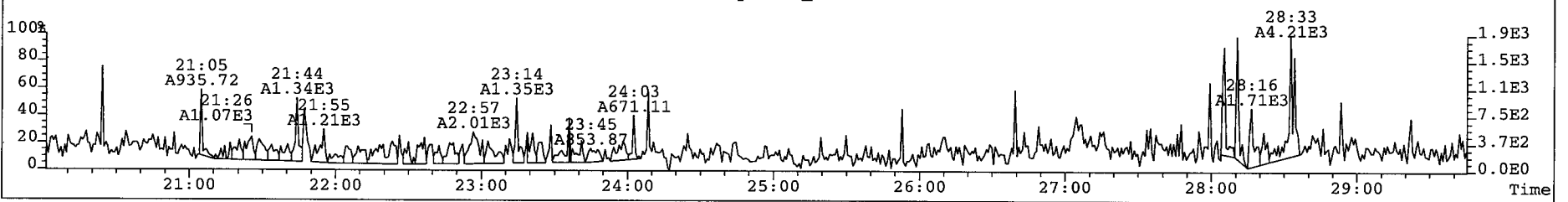
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



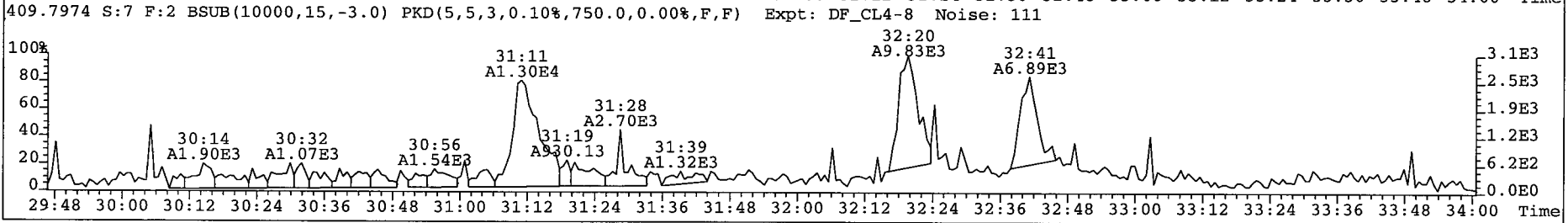
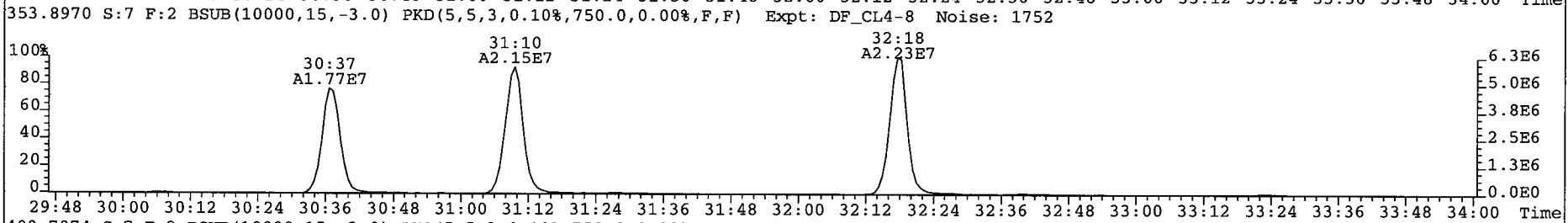
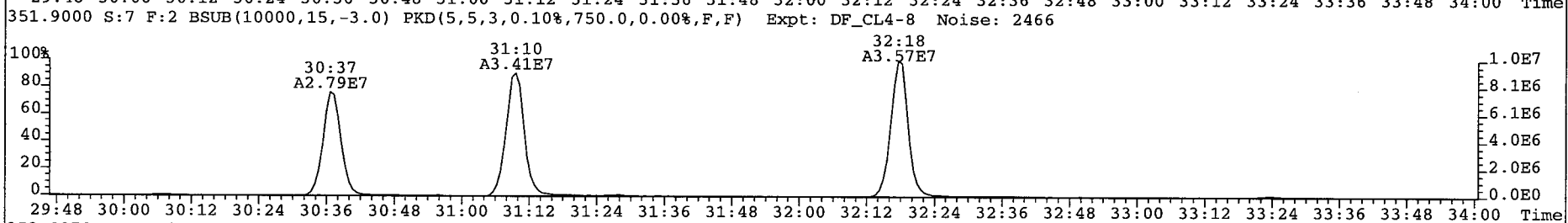
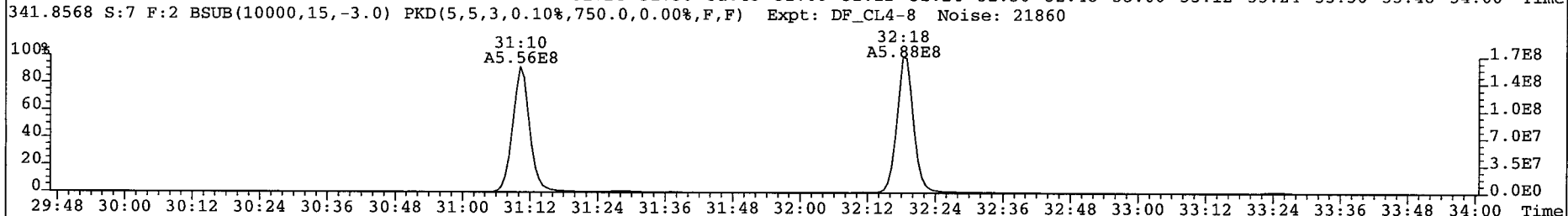
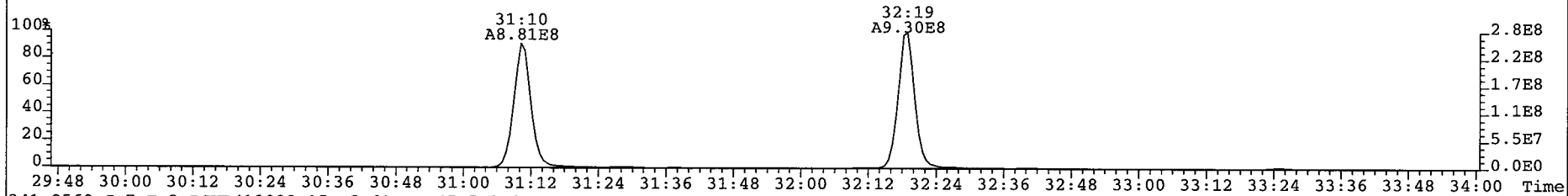
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 118

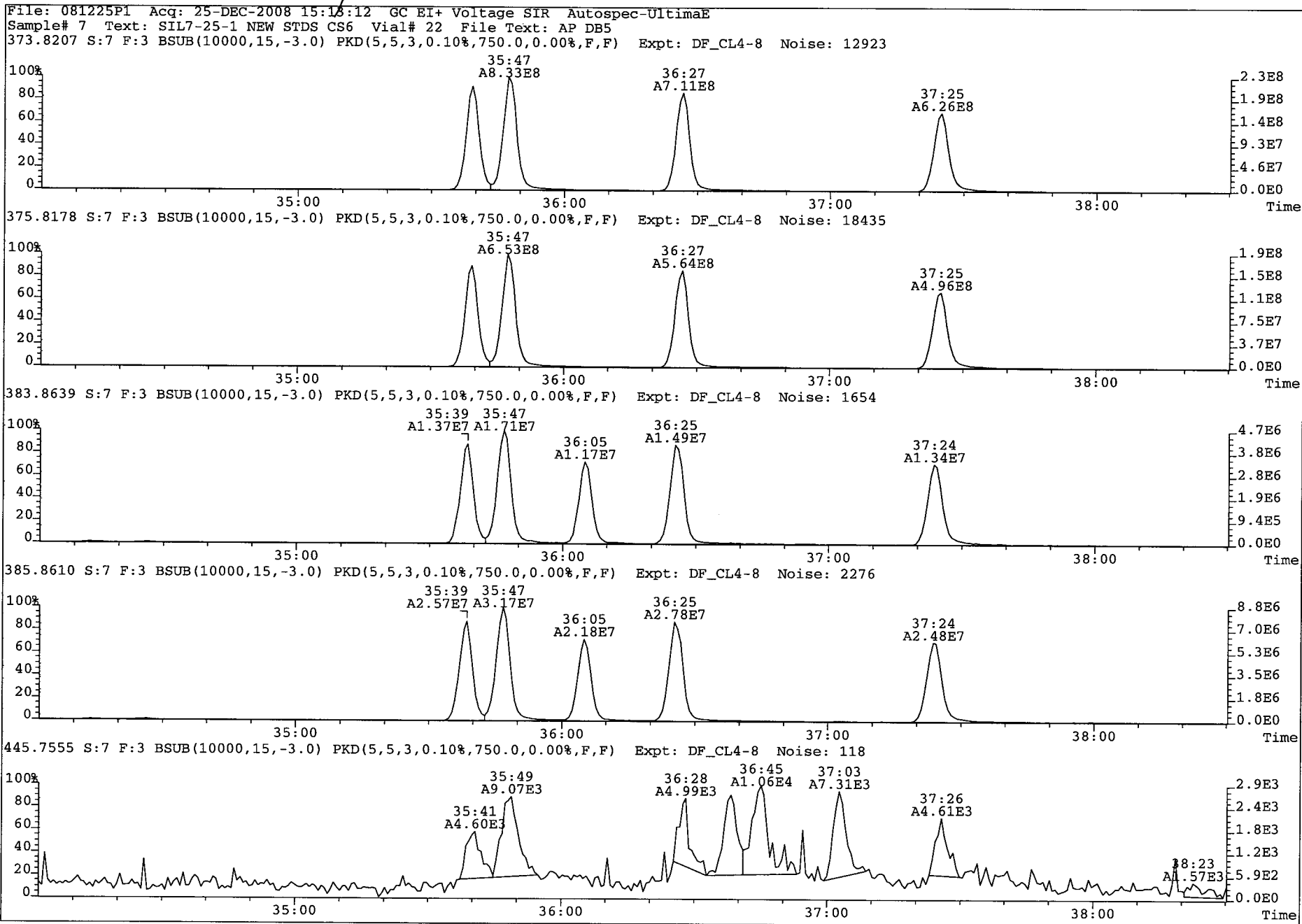


375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86

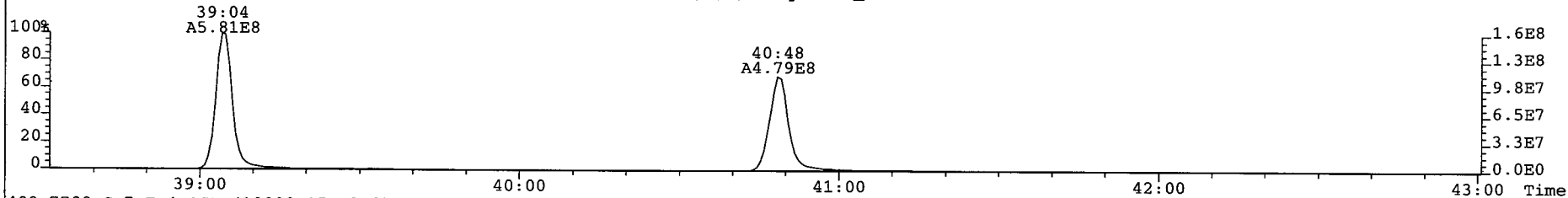


File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 3480

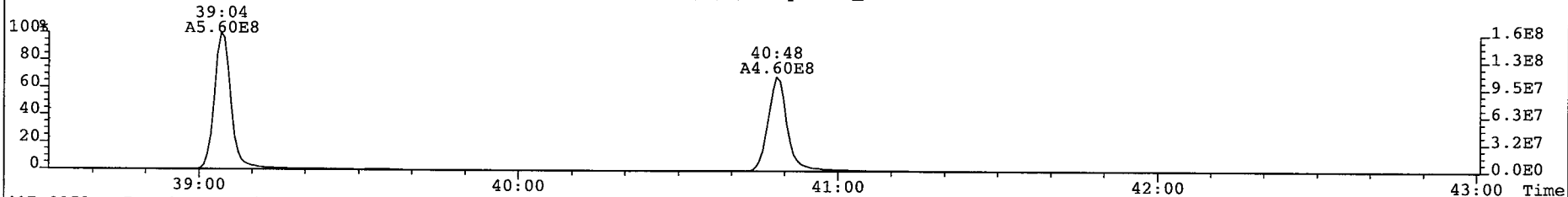




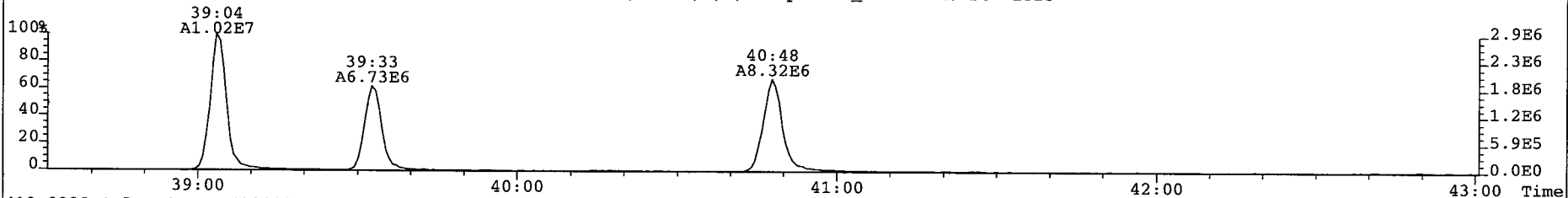
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
407.7818 S:7 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 17438



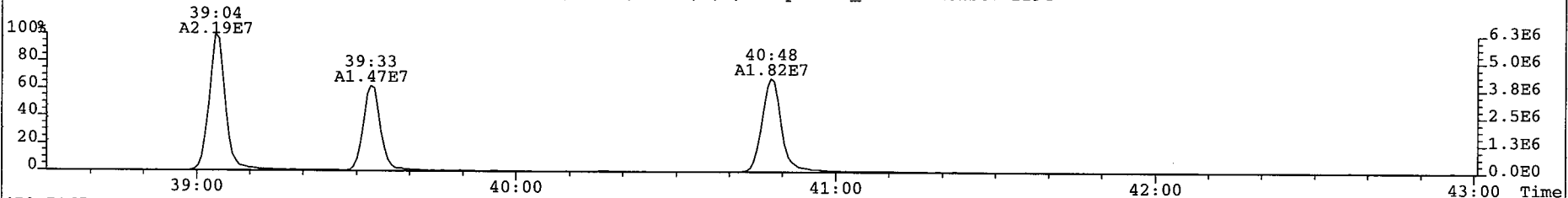
409.7788 S:7 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 15337



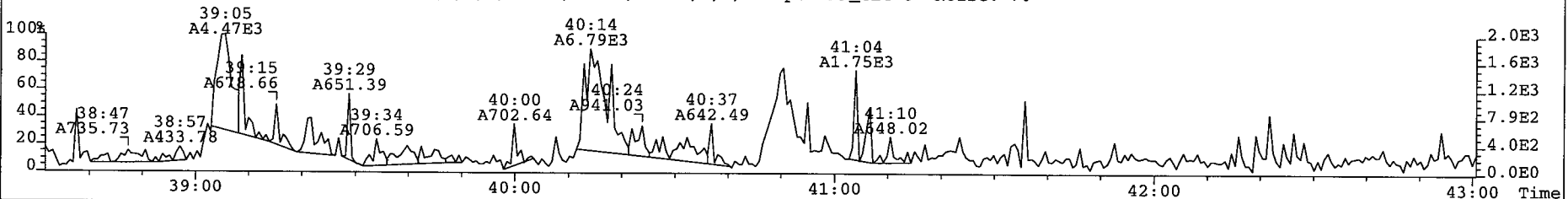
417.8253 S:7 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1525



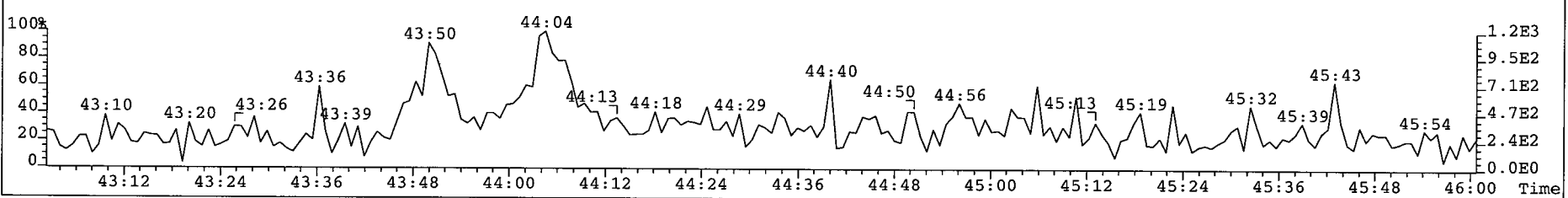
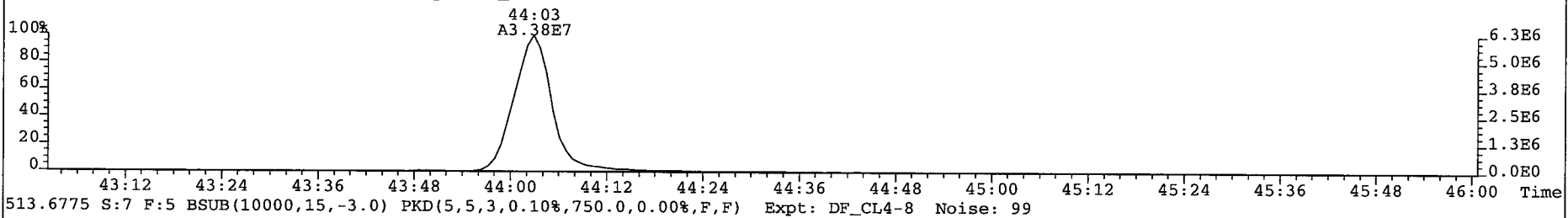
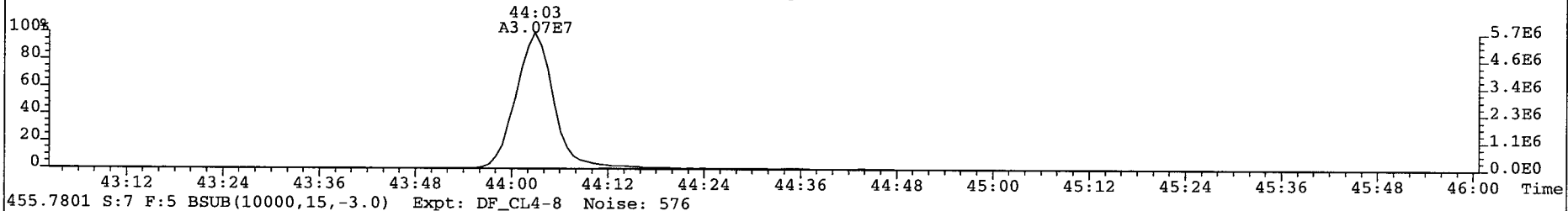
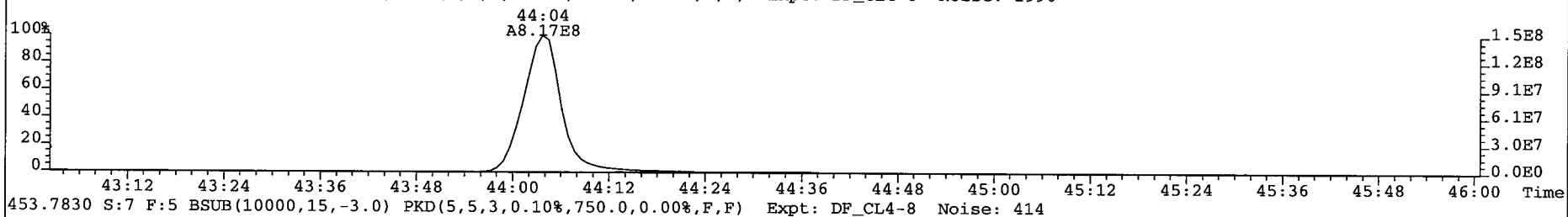
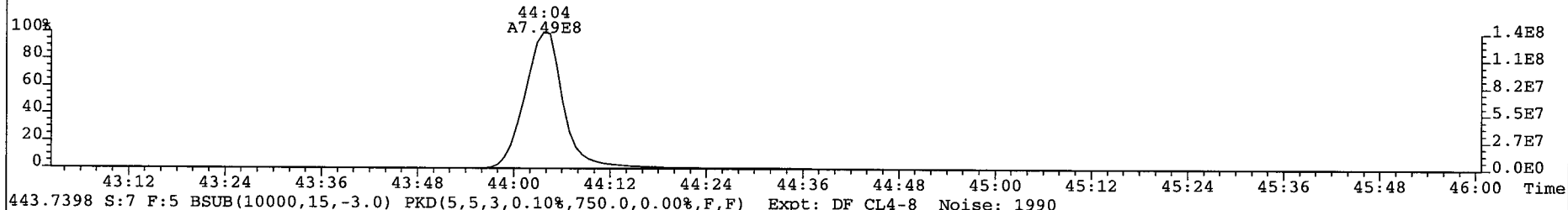
419.8220 S:7 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2294



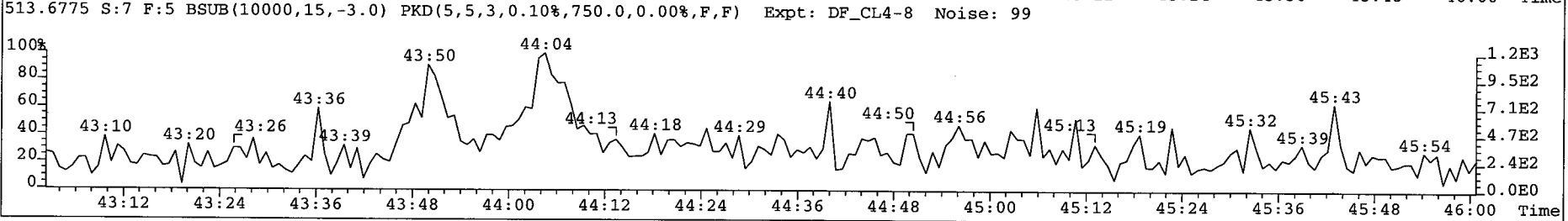
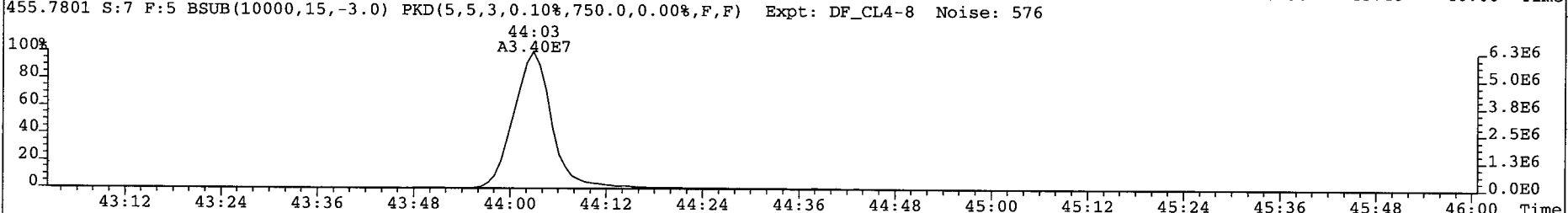
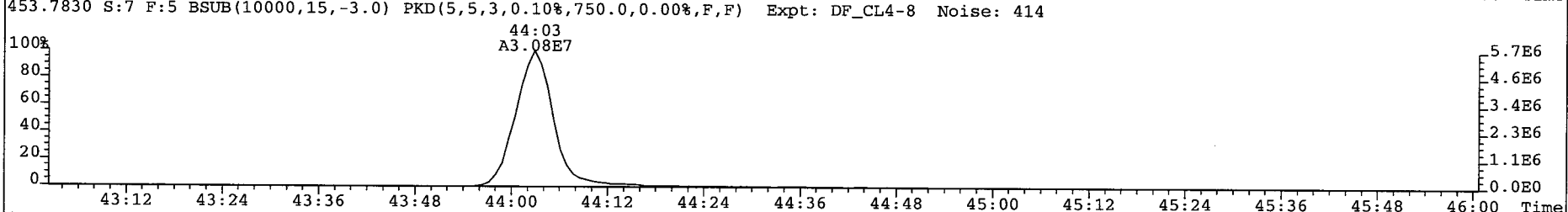
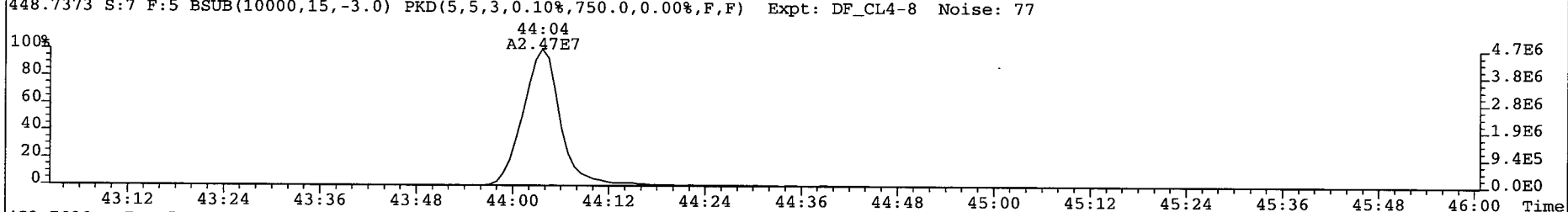
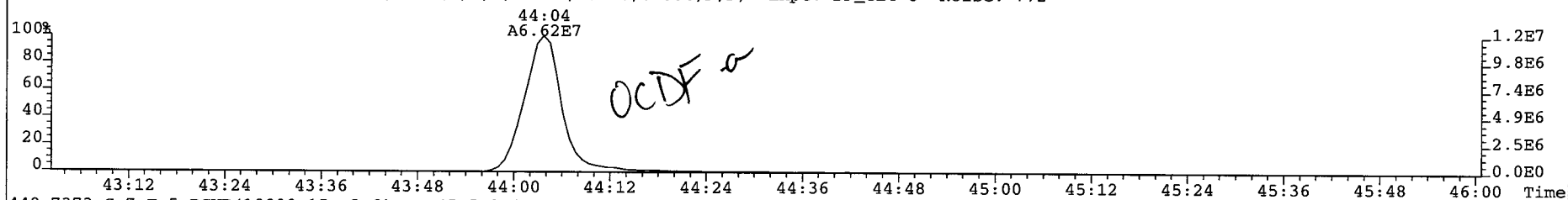
479.7165 S:7 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 70



File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 5486



File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
446.7402 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 772




FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Analytical Perspectives Episode No.:
 Contract No.: SAS No.:
 Matrix (aqueous/solid/leachate): OPR Data Filename:
 Ext. Date: Shift: Analysis Date: 14-JUN-09 Time: 09:56:12 ✓

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
2,3,7,8-TCDD	10	11.1	6.7 - 15.8
1,2,3,7,8-PeCDD	50	52.9	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	50.1	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	54.5	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	51.0	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	49.0	35.0 - 70.0
OCDD	100	104.0	78.0 - 144.0
2,3,7,8-TCDF	10	10.8	7.5 - 15.8
1,2,3,7,8-PeCDF	50	49.9	40.0 - 67.0
2,3,4,7,8-PeCDF	50	48.8	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	45.9	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	47.0	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	49.0	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	46.9	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	48.0	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	46.6	39.0 - 69.0
OCDF	100	95.1	63.0 - 170.0

Analyst: 
 Date: 19 Jun 09
 HW 19 Jun 09

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Analytical Perspectives Episode No.:
 Contract No.: SAS No.:
 Matrix (aqueous/solid/leachate): OPR Data Filename:
 Ext. Date: Shift: Analysis Date: 14-JUN-09 Time: 09:56:12

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELLED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	78.8	20.0 - 175.0
13C-1,2,3,7,8-PeCDD	100	87.8	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	87.3	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	87.6	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	85.5	26.0 - 166.0
13C-1,2,3,4,6,7,8-HpCDD	100	85.4	26.0 - 166.0
13C-OCDD	200	157.0	26.0 - 397.0
13C-2,3,7,8-TCDF	100	71.5	22.0 - 152.0
13C-1,2,3,7,8-PeCDF	100	92.9	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	92.2	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	86.5	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	87.1	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	86.1	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	82.6	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	79.4	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	80.9	20.0 - 186.0
13C-OCDF	200	154.1	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	31.9	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

Analyst: ML
 Date: 19 Jun 09
 No 19 am 09

1613/8290 Sample Summary

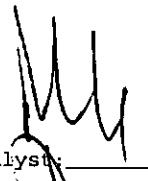
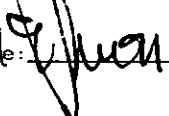
Analytical Perspectives

[Form: DF]

Client ID: 0_6875_OPR001 Filename: 090614P1 S: 2 Vial: 47 Acq: 14-JUN-09 09:56:12
 Lab ID: OPR1_6875_DF GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 1.000
 Sample text: OPR1_6875_DF 0_6875_OPR001 Stds: JS (split adj.): 100 CS/SS: 40.0 ES: 100

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	4.34e+06	0.79 y	27:20	1.08	11.1	1175	2.5	0.0582	-
Ax	1,2,3,7,8-PeCDD	1.78e+07	1.57 y	32:51	1.00	52.9	5196	2.5	0.351	-
Ax	1,2,3,4,7,8-HxCDD	1.50e+07	1.24 y	36:46	1.08	50.1	3879	2.5	0.247	-
Ax	1,2,3,6,7,8-HxCDD	1.61e+07	1.23 y	36:54	0.94	54.5	3879	2.5	0.275	-
Ax	1,2,3,7,8,9-HxCDD	1.53e+07	1.24 y	37:12	0.99	51.0	3879	2.5	0.283	-
Ax	1,2,3,4,6,7,8-HpCDD	1.17e+07	1.06 y	40:23	0.97	49.0	5771	2.5	0.432	-
Ax	OCDD	1.66e+07	0.93 y	43:58	1.06	104	6910	2.5	0.884	-
Ax2	OCDD-a	1.00e+06	2.60 y	43:57	0.06	105	940	2.5	2.01	-
Ax	2,3,7,8-TCDF	5.39e+06	0.72 y	26:26	1.05	10.6	1637	2.5	0.0648	-
Ax	1,2,3,7,8-PeCDF	2.77e+07	1.53 y	31:22	0.98	49.9	9367	2.5	0.427	-
Ax	2,3,4,7,8-PeCDF	2.87e+07	1.52 y	32:30	1.01	48.8	9367	2.5	0.372	-
Ax	1,2,3,4,7,8-HxCDF	2.08e+07	1.24 y	35:48	1.22	45.9	7964	2.5	0.223	-
Ax	1,2,3,6,7,8-HxCDF	2.44e+07	1.24 y	35:57	1.15	47.0	7964	2.5	0.198	-
Ax	2,3,4,6,7,8-HxCDF	2.24e+07	1.22 y	36:36	1.13	49.0	7964	2.5	0.226	-
Ax	1,2,3,7,8,9-HxCDF	1.76e+07	1.25 y	37:35	1.12	46.9	7964	2.5	0.305	-
Ax	1,2,3,4,6,7,8-HpCDF	1.76e+07	1.02 y	39:12	1.37	48.0	5644	2.5	0.180	-
Ax	1,2,3,4,7,8,9-HpCDF	1.34e+07	1.00 y	40:58	1.32	46.6	5644	2.5	0.260	-
Ax	OCDF	2.08e+07	0.89 y	44:13	0.94	95.1	7967	2.5	0.786	-
Ax2	OCDF-a	1.15e+06	2.94 y	44:13	0.05	93.2	2435	2.5	4.27	-
ES	13C-2,3,7,8-TCDD	3.60e+07	0.84 y	27:19	0.99	78.8	2707	2.5	0.112	78.8
ES	13C-1,2,3,7,8-PeCDD	3.37e+07	1.60 y	32:50	0.83	87.8	7682	2.5	0.378	87.8
ES	13C-1,2,3,4,7,8-HxCDD	2.76e+07	1.28 y	36:46	1.08	87.3	11006	2.5	0.699	87.3
ES	13C-1,2,3,6,7,8-HxCDD	3.13e+07	1.29 y	36:53	1.23	87.6	11006	2.5	0.617	87.6
ES	13C-1,2,3,7,8,9-HxCDD	3.02e+07	1.28 y	37:11	1.21	85.5	11006	2.5	0.625	85.5
ES	13C-1,2,3,4,6,7,8-HpCDD	2.45e+07	1.06 y	40:22	0.98	85.4	14885	2.5	1.04	85.4
ES	13C-OCDD	3.02e+07	0.84 y	43:57	0.66	157	9425	2.5	0.982	78.5
ES	13C-2,3,7,8-TCDF	4.87e+07	0.85 y	26:24	0.96	71.5	1815	2.5	0.0566	71.5
ES	13C-1,2,3,7,8-PeCDF	5.64e+07	1.54 y	31:21	0.85	92.9	14677	2.5	0.513	92.9
ES	13C-2,3,4,7,8-PeCDF	5.81e+07	1.52 y	32:29	0.88	92.2	14677	2.5	0.495	92.2
ES	13C-1,2,3,4,7,8-HxCDF	3.72e+07	0.53 y	35:47	1.47	86.5	23744	2.5	1.11	86.5
ES	13C-1,2,3,6,7,8-HxCDF	4.51e+07	0.53 y	35:56	1.78	87.1	23744	2.5	0.919	87.1
ES	13C-2,3,4,6,7,8-HxCDF	4.04e+07	0.52 y	36:35	1.61	86.1	23744	2.5	1.01	86.1
ES	13C-1,2,3,7,8,9-HxCDF	3.37e+07	0.52 y	37:34	1.40	82.6	23744	2.5	1.17	82.6
ES	13C-1,2,3,4,6,7,8-HpCDF	2.69e+07	0.44 y	39:11	1.16	79.4	20259	2.5	1.20	79.4
ES	13C-1,2,3,4,7,8,9-HpCDF	2.17e+07	0.46 y	40:57	0.92	80.9	20259	2.5	1.51	80.9
ES	13C-OCDF	4.66e+07	0.92 y	44:12	1.04	154	19641	2.5	1.30	77.0
CS	37Cl-2,3,7,8-TCDD	1.45e+07		27:20	0.99	31.9			0.130	79.8
CS	13C-1,2,3,4,7-PeCDD	3.32e+07	1.66 y	32:20	0.77	93.8	7682	2.5	0.410	93.8
CS	13C-1,2,3,4,6-PeCDF	5.38e+07	1.52 y	30:48	0.79	95.1	14677	2.5	0.551	95.1
CS	13C-1,2,3,4,6,9-HxCDF	3.63e+07	0.52 y	36:14	1.41	88.2	23744	2.5	1.16	88.2
CS	13C-1,2,3,4,6,8,9-HpCDF	2.28e+07	0.45 y	39:41	0.91	85.8	20259	2.5	1.53	85.8
NA	n/a	*	* n	NotP>	Div0	*	2072	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	4.60e+07	0.85 y	26:38	-	131	2707	2.5	-	-
JS	13C-1,2,3,4-TCDF	7.12e+07	0.83 y	24:59	-	128	1815	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.46e+07	1.28 y	37:04	-	67.0	1621	2.5	-	-

OK Ho 19 Jun 09

Analyst: 
 Date: 

SS	37C1-2,3,7,8-TCDD	1.45e+07		27:20	1.00	40.3			0.167	101
SS	13C-1,2,3,4,7-PeCDD	3.32e+07	1.66 y	32:20	0.93	106	7682	2.5	0.558	106
SS	13C-1,2,3,4,6-PeCDF	5.38e+07	1.52 y	30:48	0.94	102	14677	2.5	0.704	102
SS	13C-1,2,3,4,6,9-HxCDF	3.63e+07	0.52 y	36:14	0.80	101	23744	2.5	0.846	101
SS	13C-1,2,3,4,6,8,9-HpCDF	2.28e+07	0.45 y	39:41	0.79	107	20259	2.5	1.12	107
SBS	2,4,6,8-TCDF	2.11e+06	0.74 y	22:32	1.05	4.14	1637	2.5	0.0648	-
Ay	1,3,6,8-TCDD	3.86e+06	0.81 y	23:29	1.08	9.90	1175	2.5	0.0582	-
Ay	1,2,3,9-TCDD	5.92e+06	0.80 y	27:11	1.08	15.2	1175	2.5	0.0582	-
Ay	1,2,8,9-TCDD	4.77e+06	0.78 y	28:21	1.08	12.2	1175	2.5	0.0582	-
Ay	1,2,4,7,9-PeCDD	4.53e+06	1.64 y	30:18	1.00	13.5	5196	2.5	0.351	-
Ay	1,2,3,8,9-PeCDD	3.82e+06	1.60 y	33:18	1.00	11.4	5196	2.5	0.351	-
Ay	1,2,4,6,7,9-HxCDD	3.87e+06	1.24 y	35:04	1.00	13.0	3879	2.5	0.269	-
Ay	1,2,3,4,6,7,9-HpCDD	2.76e+06	1.04 y	39:31	0.97	11.6	5771	2.5	0.432	-
Ay	1,3,6,8-TCDF	8.25e+06	0.76 y	21:18	1.05	16.2	1637	2.5	0.0648	-
Ay	2,3,4,8-TCDF	3.97e+06	0.83 y	26:19	1.05	7.79	1637	2.5	0.0648	-
Ay	1,2,8,9-TCDF	7.00e+06	0.77 y	28:31	1.05	13.7	1637	2.5	0.0648	-
Ay	1,3,4,6,8-PeCDF	4.82e+06	1.78 y	28:27	1.05	9.47	3016	2.5	0.119	-
Ay	1,2,3,8,9-PeCDF	5.18e+06	1.51 y	33:36	1.00	9.06	9367	2.5	0.399	-
Ay	1,2,3,4,6,8-HxCDF	4.73e+07	1.22 y	34:24	1.15	105	7964	2.5	0.234	-
Tot	Total Tetra-Dioxins	1.89e+07	0.81 y	23:29	1.08	48.4	1175	2.5	0.0582	-
Tot	Total Penta-Dioxins	2.62e+07	1.64 y	30:18	1.00	77.7	5196	2.5	0.351	-
Tot	Total Hexa-Dioxins	5.03e+07	1.24 y	35:04	1.00	169	3879	2.5	0.269	-
Tot	Total Hepta-Dioxins	1.44e+07	1.04 y	39:31	0.97	60.6	5771	2.5	0.432	-
Tot	Total Tetra-Furans	2.67e+07	0.76 y	21:18	1.05	52.4	1637	2.5	0.0648	-
Tot	Total Penta-Furans	6.24e+07	1.49 y	30:12	1.00	109	9367	2.5	0.399	-
Tot	Total Hexa-Furans	1.33e+08	1.22 y	34:24	1.15	294	7964	2.5	0.234	-
Tot	Total Hepta-Furans	3.10e+07	1.02 y	39:12	1.35	94.6	5644	2.5	0.215	-
Tot	TCDD EMPC	1.90e+07	0.81 y	23:29	1.08	48.6	1175	2.5	0.0582	-
Tot	PeCDD EMPC	2.62e+07	1.64 y	30:18	1.00	77.8	5196	2.5	0.351	-
Tot	HxCDD EMPC	5.05e+07	1.24 y	35:04	1.00	169	3879	2.5	0.269	-
Tot	HpCDD EMPC	1.44e+07	1.04 y	39:31	0.97	60.6	5771	2.5	0.432	-
Tot	TCDF EMPC	2.69e+07	0.76 y	21:18	1.05	52.8	1637	2.5	0.0648	-
Tot	PeCDF EMPC	6.32e+07	1.49 y	30:12	1.00	111	9367	2.5	0.399	-
Tot	HxCDF EMPC	1.33e+08	1.22 y	34:24	1.15	294	7964	2.5	0.234	-
Tot	HpCDF EMPC	3.10e+07	1.02 y	39:12	1.35	94.6	5644	2.5	0.215	-
AS	13C-1,3,6,8-TCDD	3.20e+07	0.83 y	23:28	1.09	64.1	2707	2.5	0.102	64.1
AS	13C-1,3,6,8-TCDF	7.10e+07	0.82 y	21:17	1.09	91.5	1815	2.5	0.0497	91.5
DPE	HxCDFE	*		NotF»	-	*	-	-	-	-
DPE	HpCDFE	*		NotF»	-	*	-	-	-	-
DPE	OCDFE	*		NotF»	-	*	-	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-	-
DPE	DCDFE	*		NotF»	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-	-

PCDD/PCDF RT Window & Isomer Specificity Standards Analytical Perspectives {Form: CPSM}

Client ID: 0_6875_OPR001 Filename: 090614P1 S: 2 Vial: 47 Acq: 14-JUN-09 09:56:12
 Lab ID: OPR1_6875_DF GC Column ID: db-5 ICal: MM1_DF_07012007A_25> Wt/Vol: 1.000
 Sample text: OPR1_6875_DF 0_6875_OPR001

Window Defining Standards Results

First Eluting Isomer	RT	Last Eluting Isomer	RT
1,3,6,8-TCDD	23:29	1,2,8,9-TCDD	28:21
1,2,4,7,9-PeCDD	30:18	1,2,3,8,9-PeCDD	33:18
1,2,4,6,7,9-HxCDD	35:04	1,2,3,7,8,9-HxCDD	37:12
1,2,3,4,6,7,9-HpCDD	39:31	1,2,3,4,6,7,8-HpCDD	40:23
1,3,6,8-TCDF	21:18	1,2,8,9-TCDF	28:31
1,3,4,6,8-PeCDF	28:27	1,2,3,8,9-PeCDF	33:36
1,2,3,4,6,8-HxCDF	34:24	1,2,3,7,8,9-HxCDF	37:39
1,2,3,4,6,7,8-HpCDF	39:12	1,2,3,4,7,8,9-HpCDF	40:58

Isomer Specificity Test Standard Results

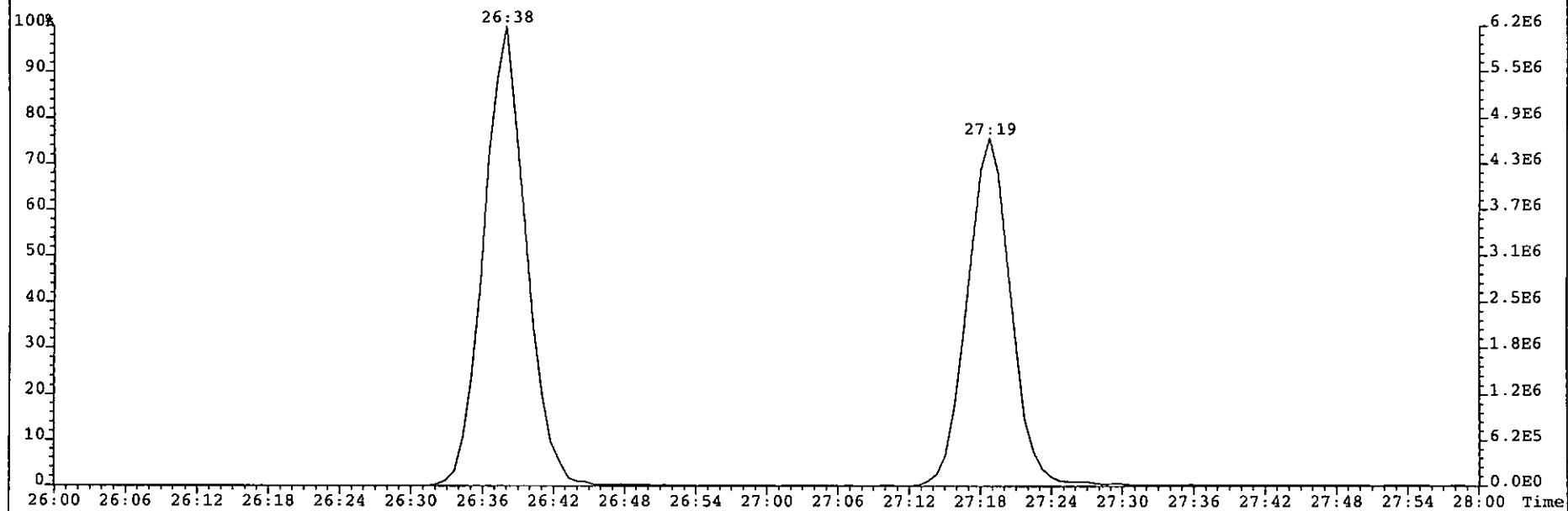
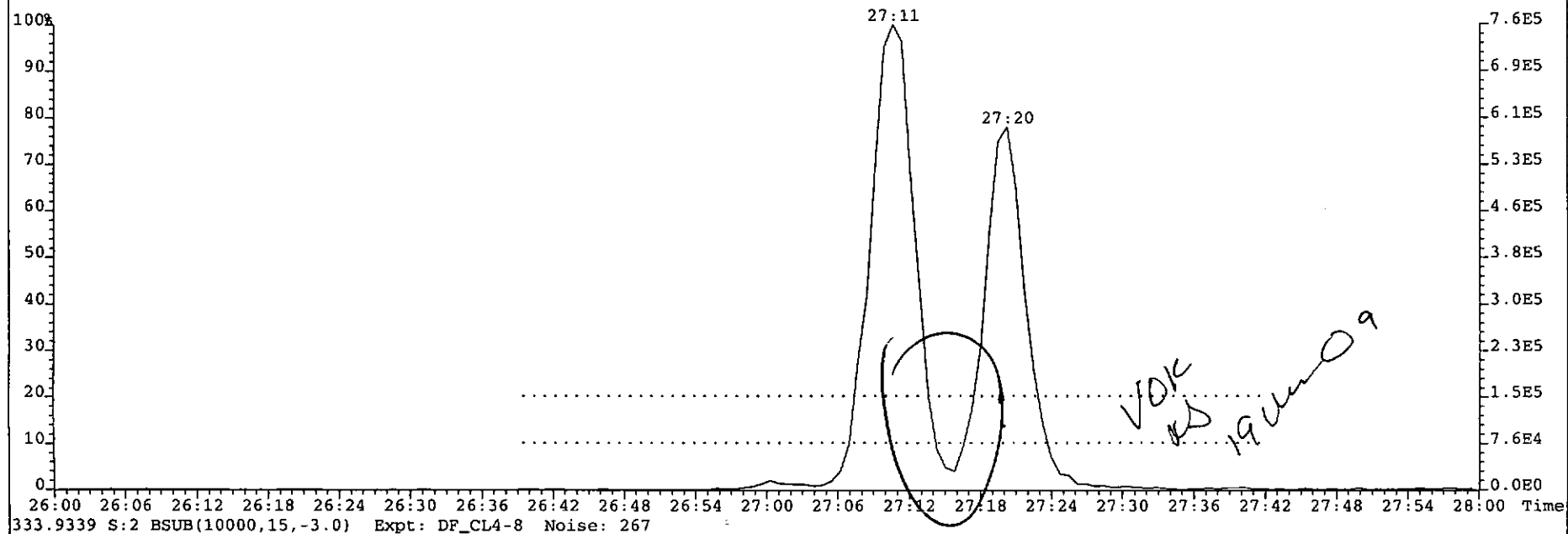
2,3,7,8 Isomer	RT	Closest Isomer	RT	% Valley
2,3,7,8-TCDD	27:20	1,2,3,9-TCDD	27:11	<= 10%
2,3,7,8-TCDF	26:26	2,3,4,8-TCDF	26:19	<= 40%

Analyst

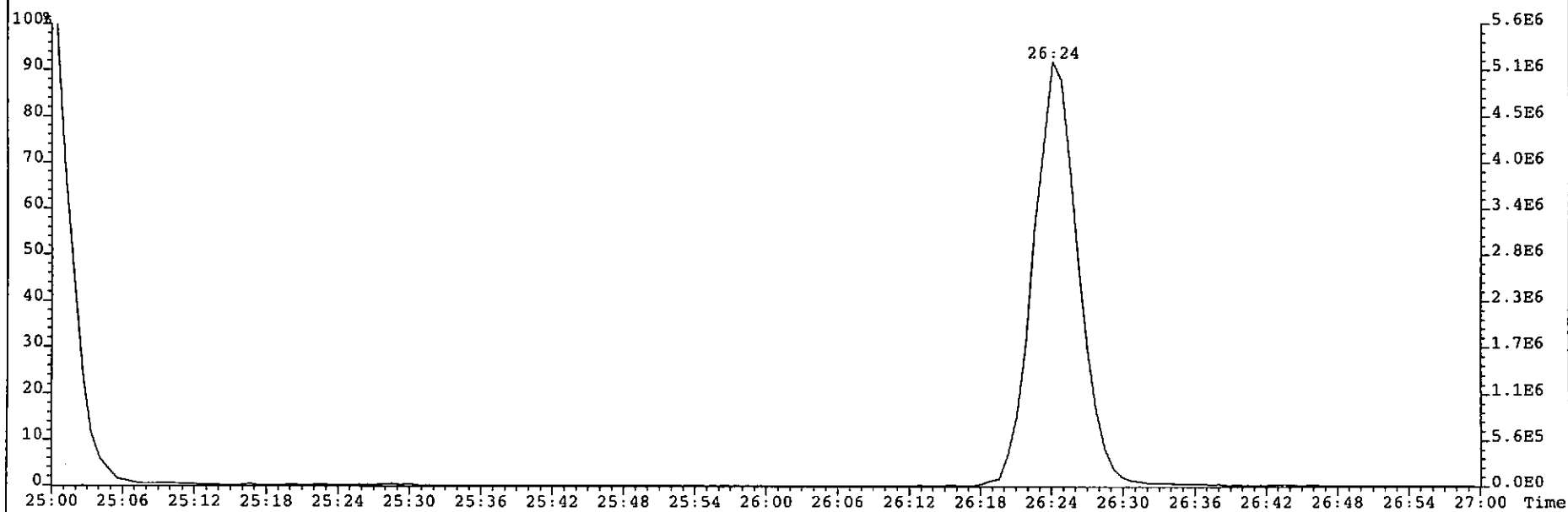
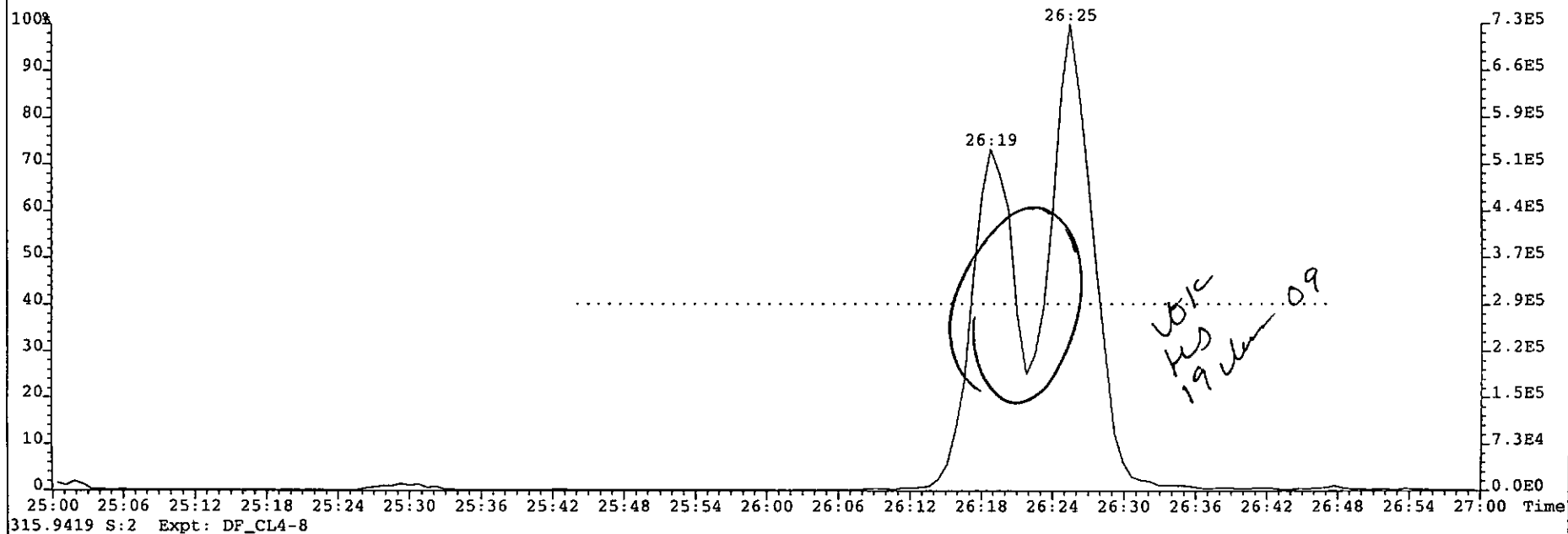
Date

[Handwritten Signature]
 10 June 09
 10 June 09

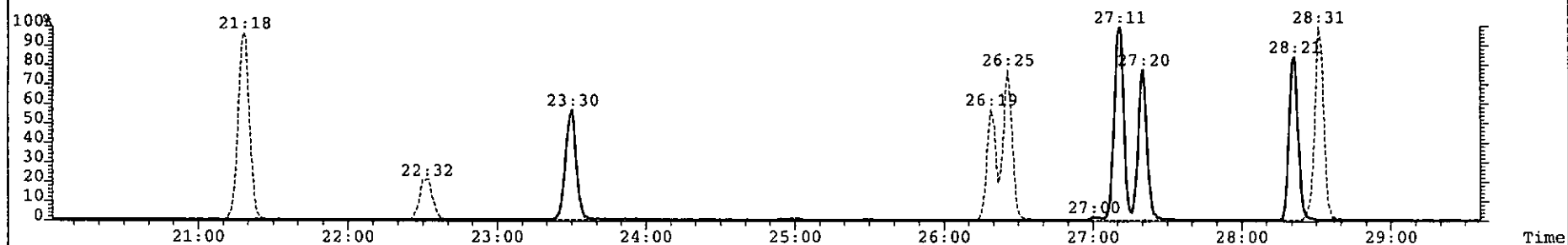
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 283



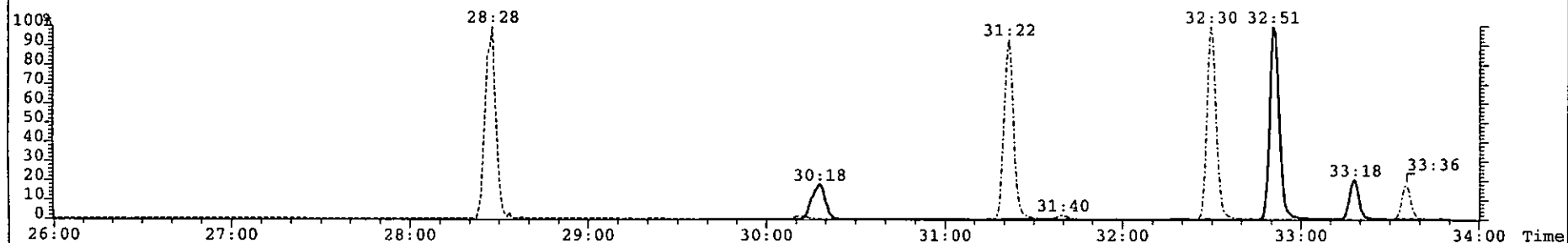
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPRI_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
305.8987 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 404



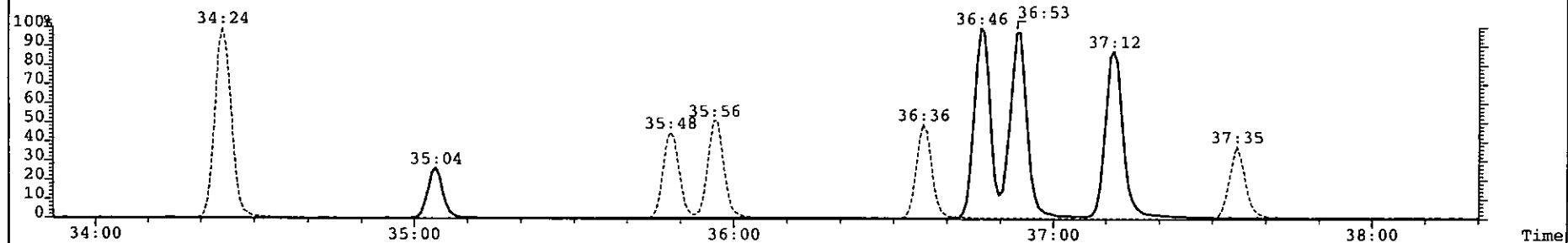
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
S:2 305.8987,321.8936 Expt: DF_CL4-8



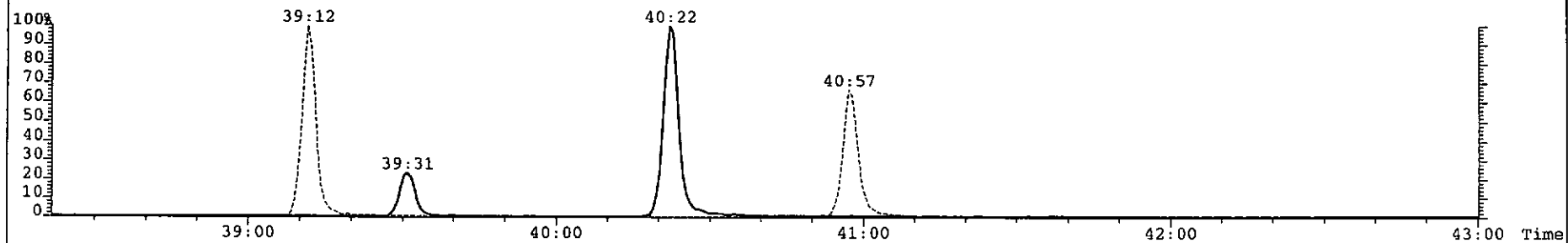
S:2 339.8597,355.8546 F:2,339.8597 F:2 Expt: DF_CL4-8



S:2 F:3 373.8207,389.8156 Expt: DF_CL4-8



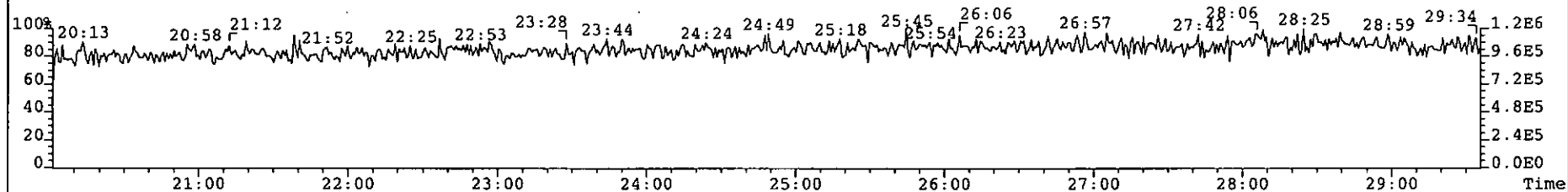
S:2 F:4 407.7818,423.7767 Expt: DF_CL4-8



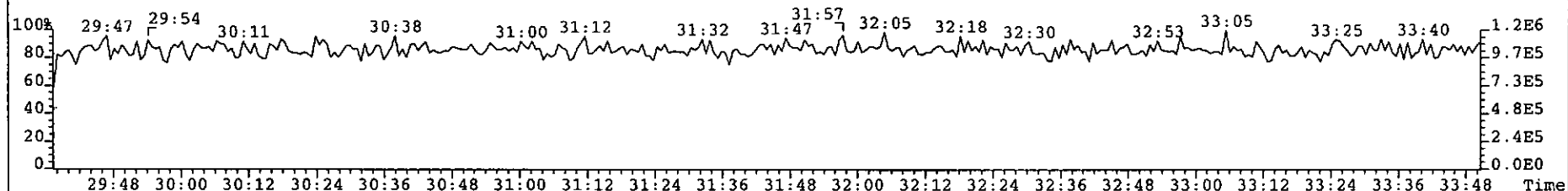
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5

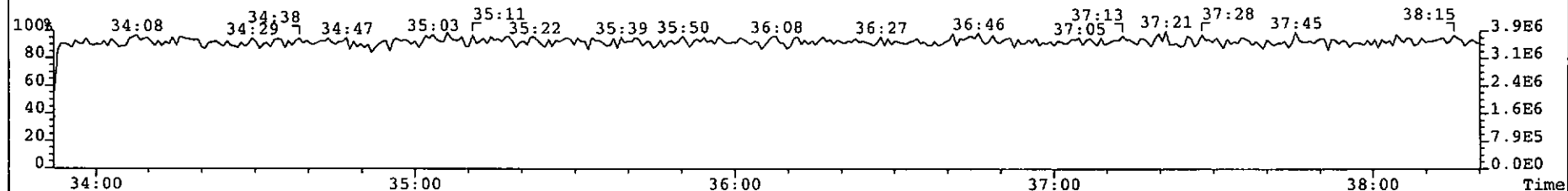
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



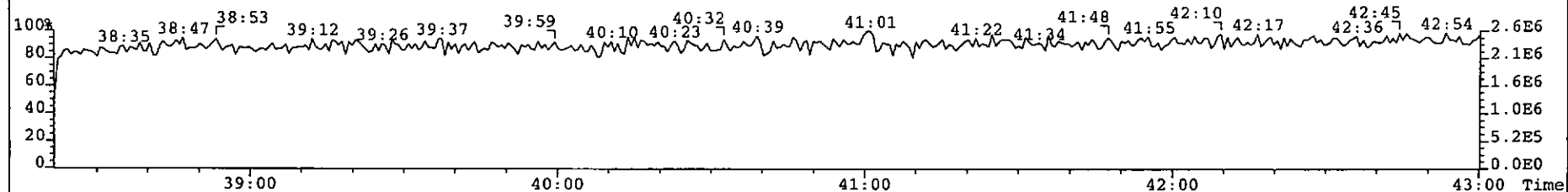
366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



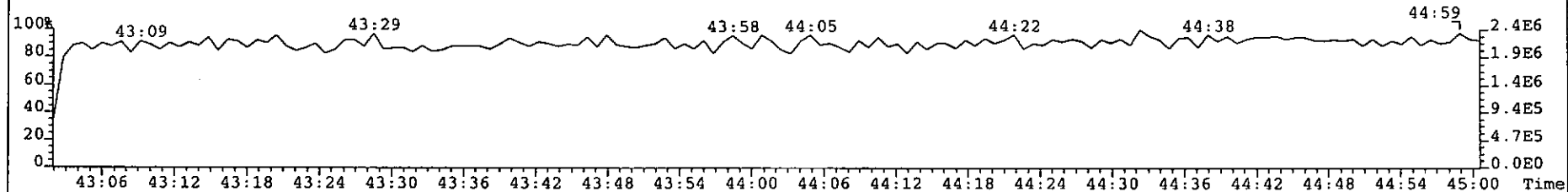
380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



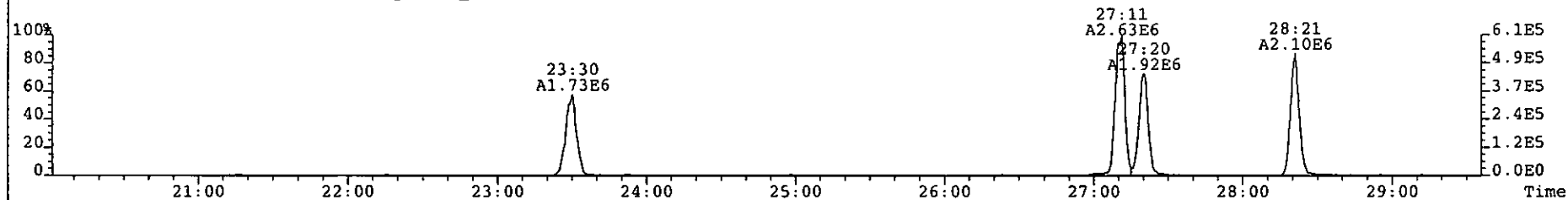
430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



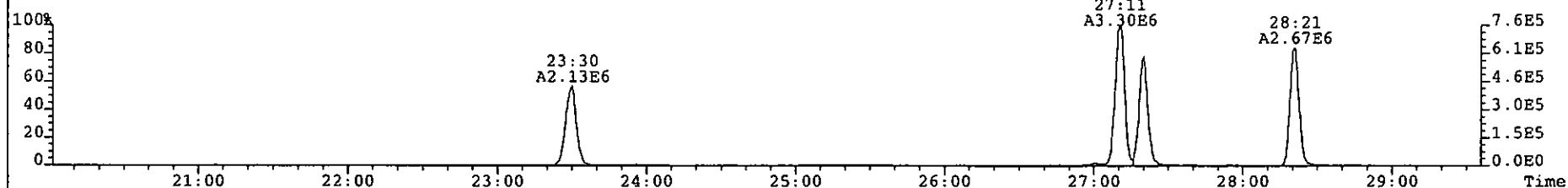
454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



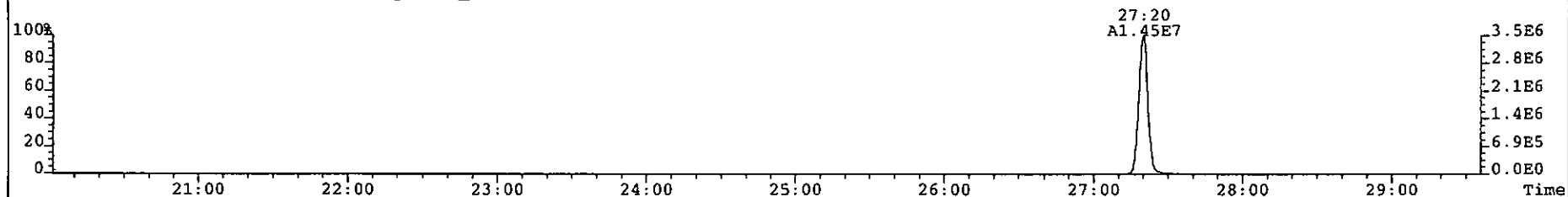
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
319.8965 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 287



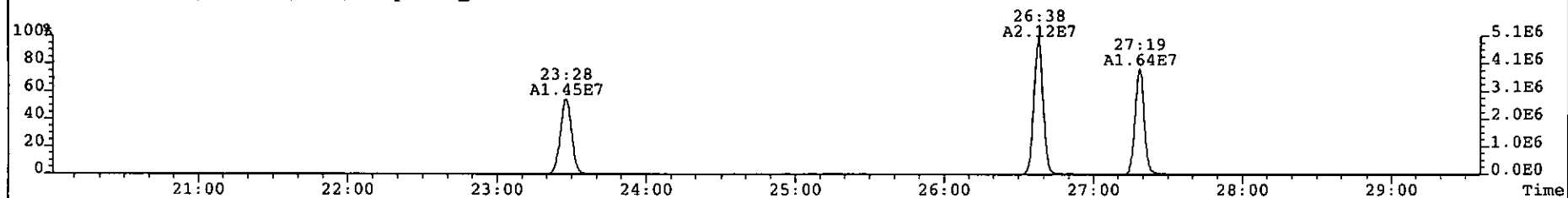
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 283



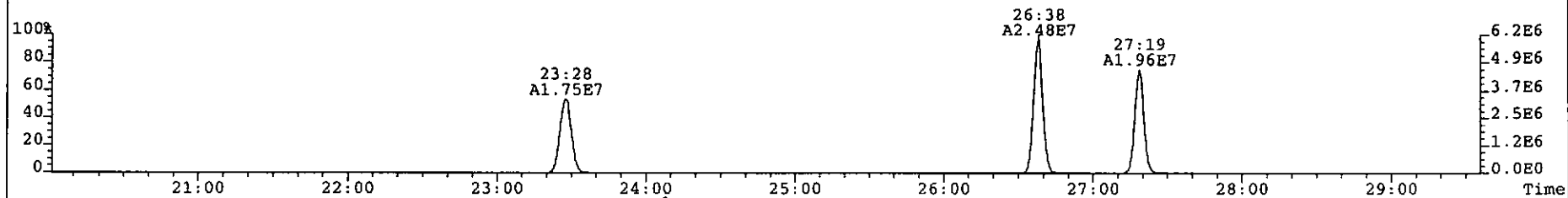
327.8850 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 295



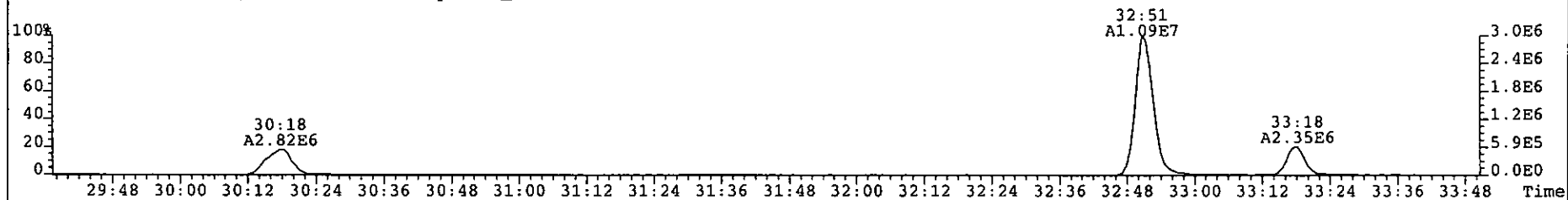
331.9368 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 271



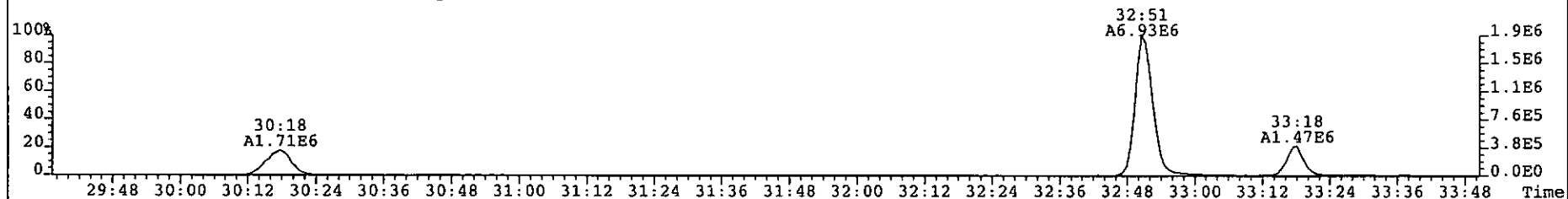
333.9339 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 267



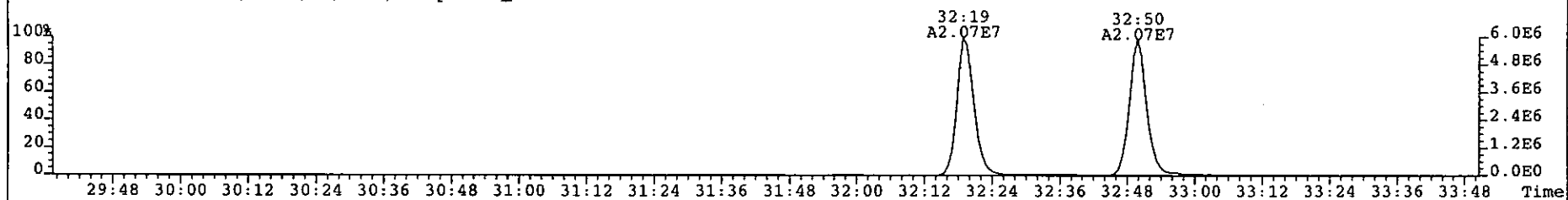
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
355.8546 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 163



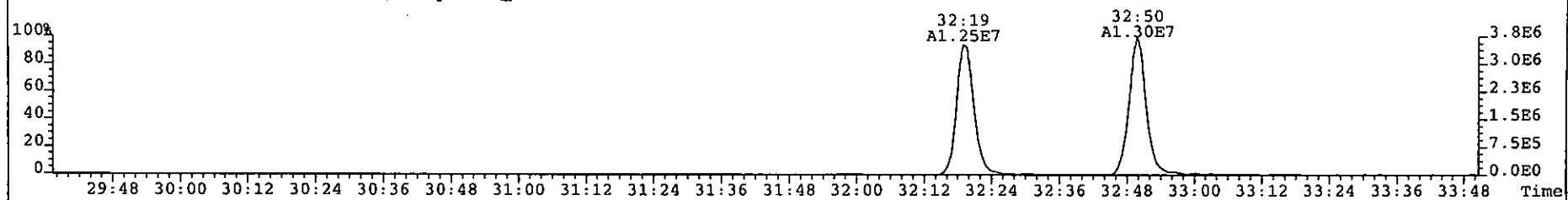
357.8517 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 150



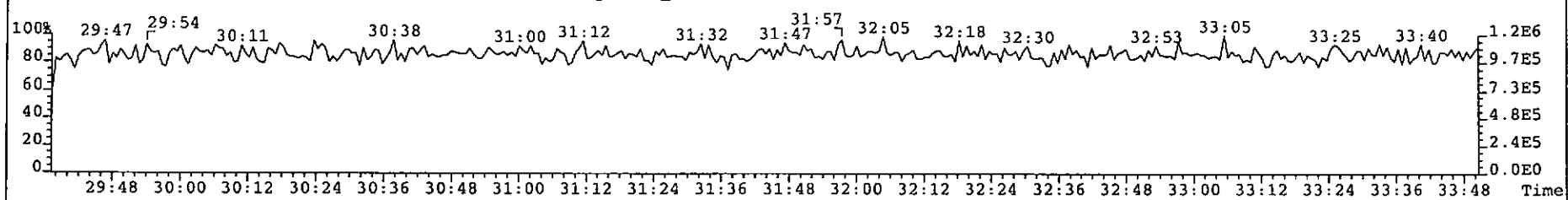
367.8949 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 167



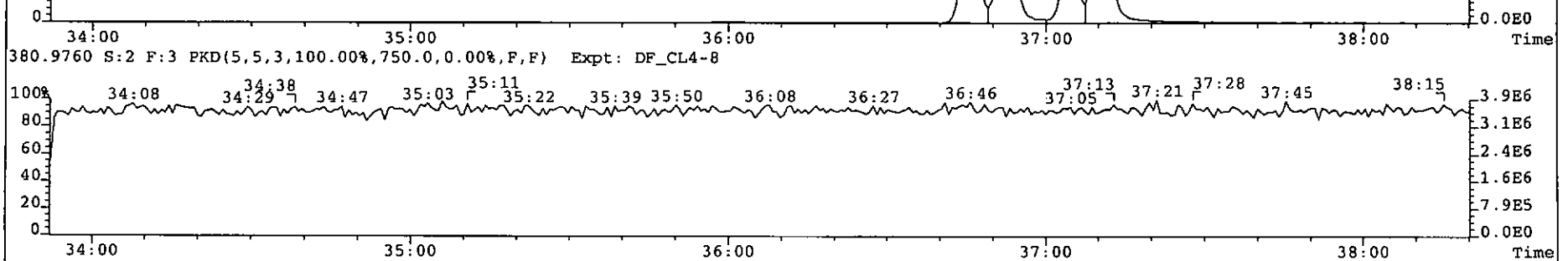
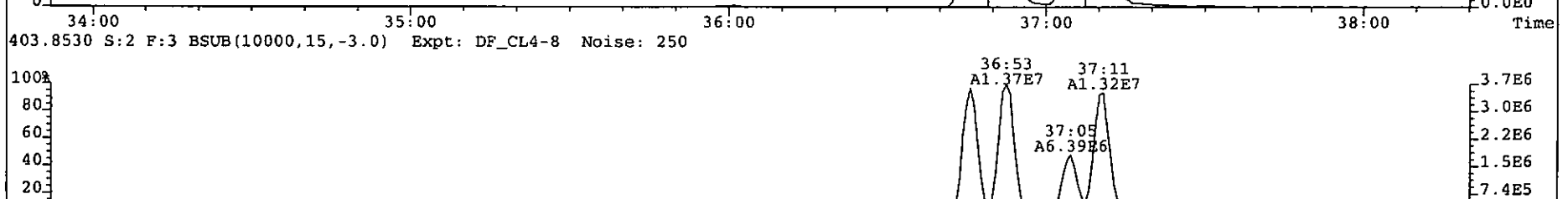
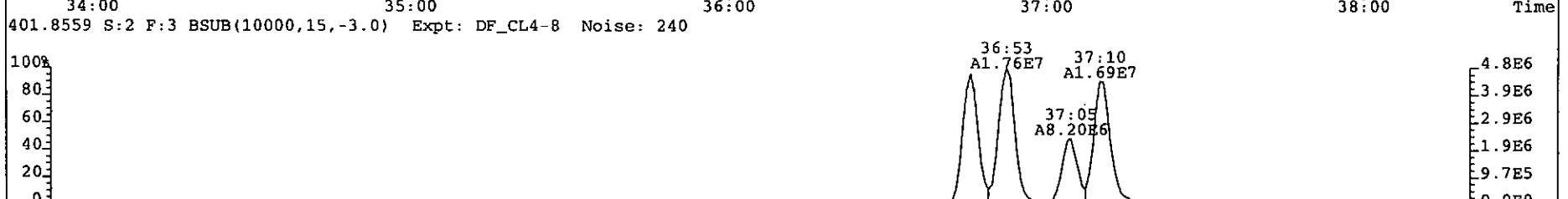
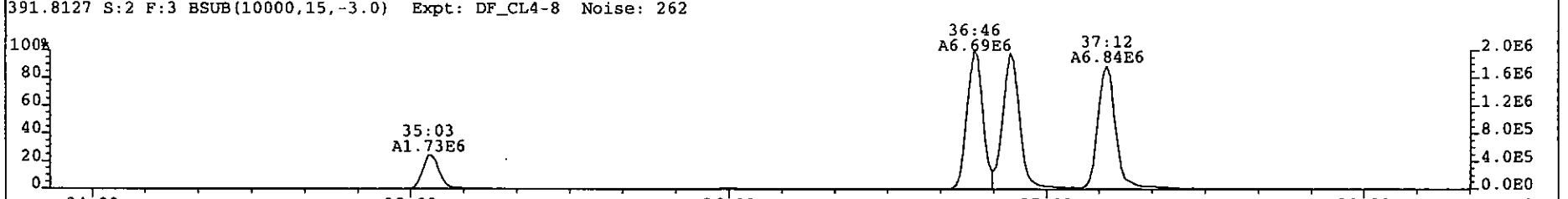
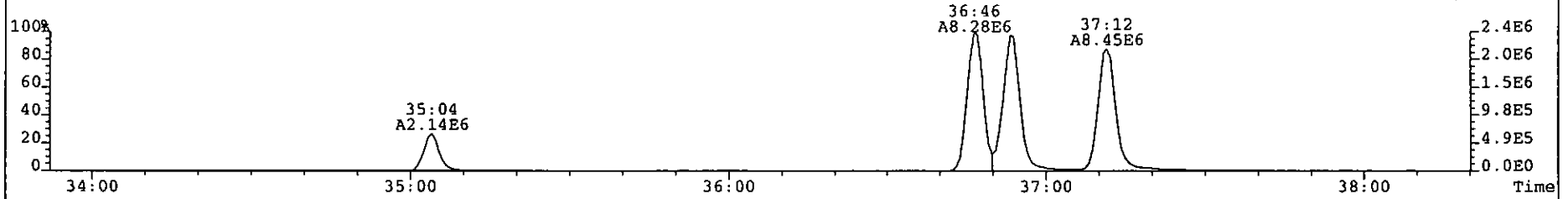
369.8919 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 174



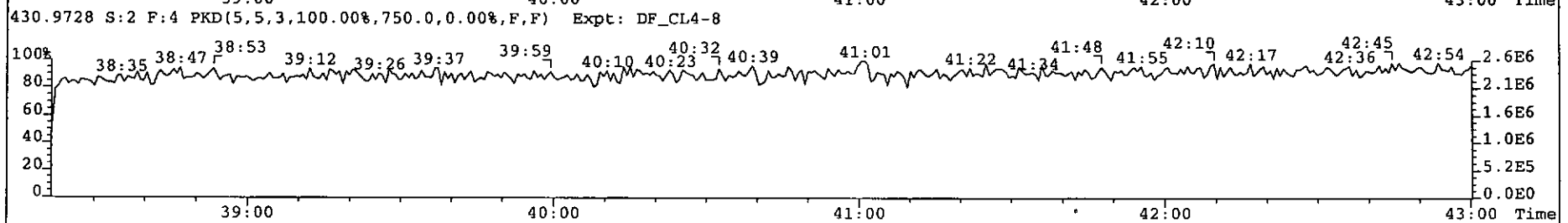
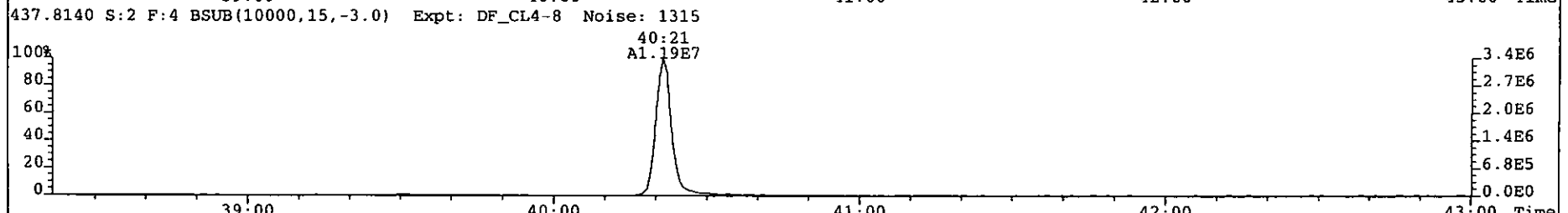
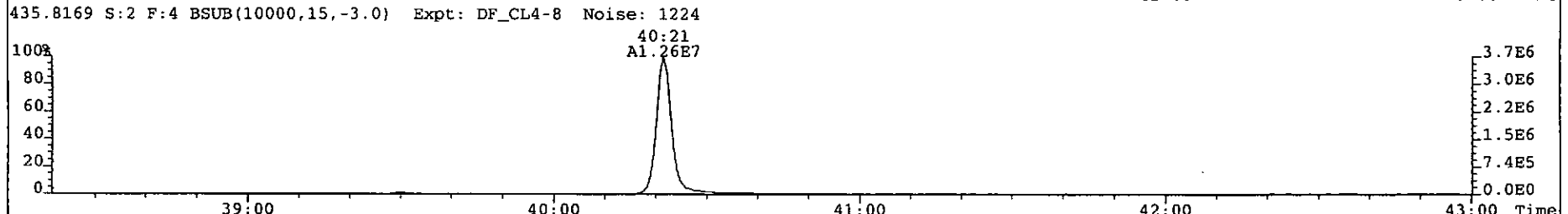
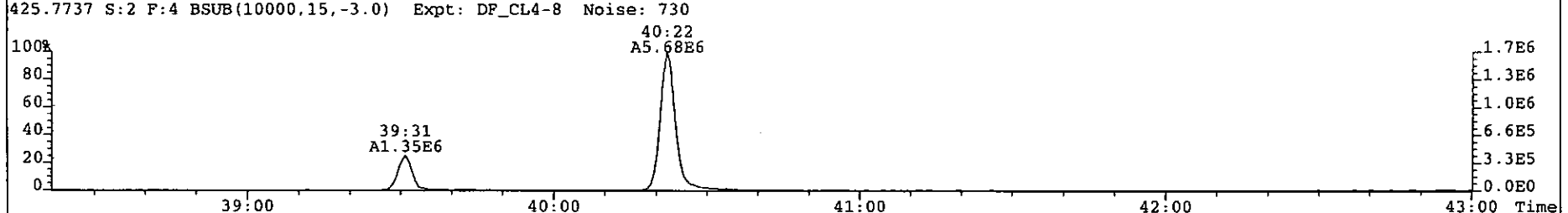
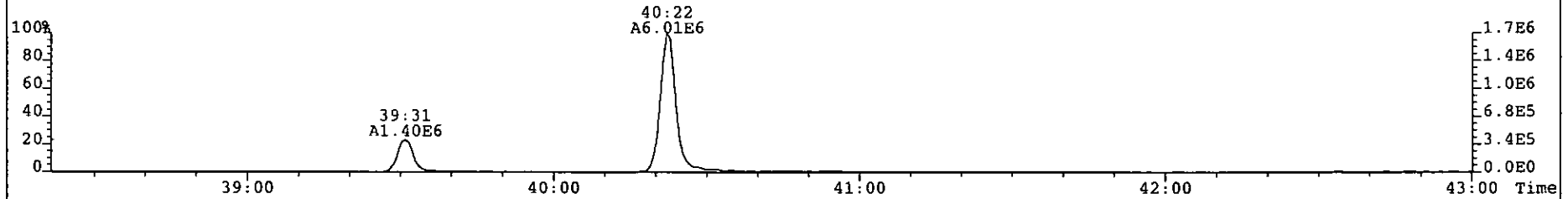
366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



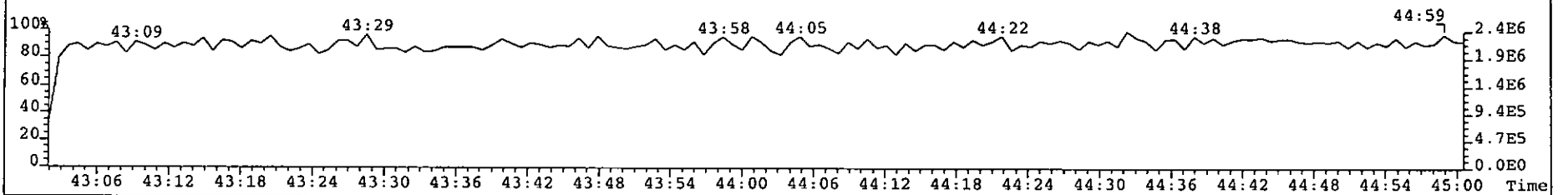
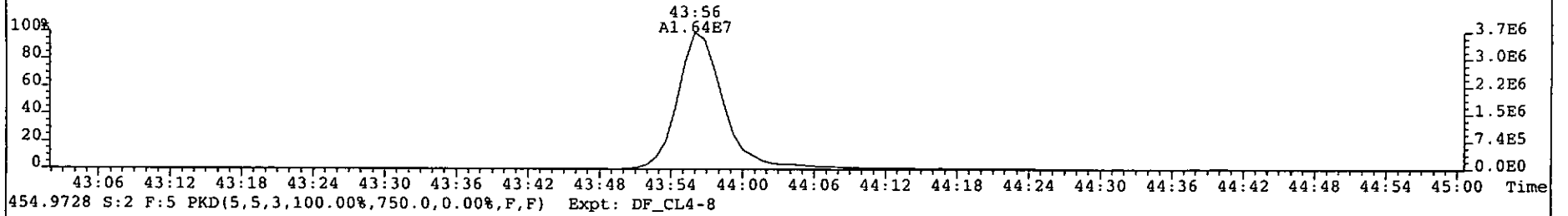
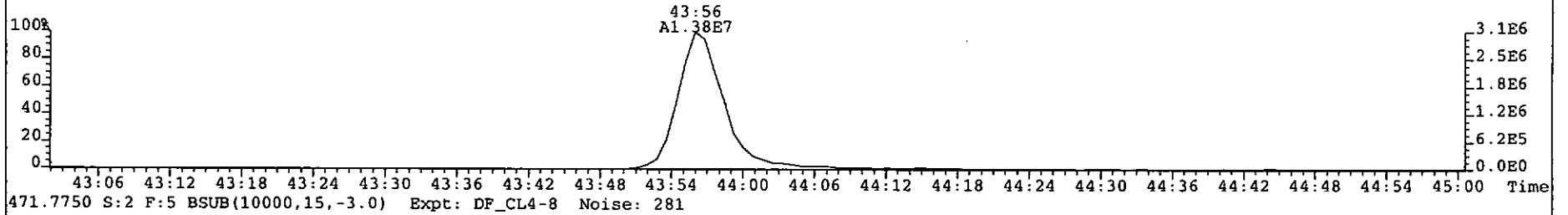
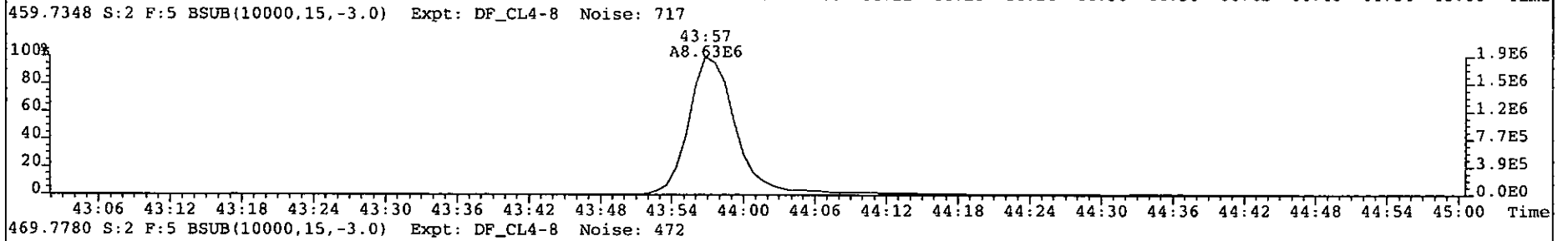
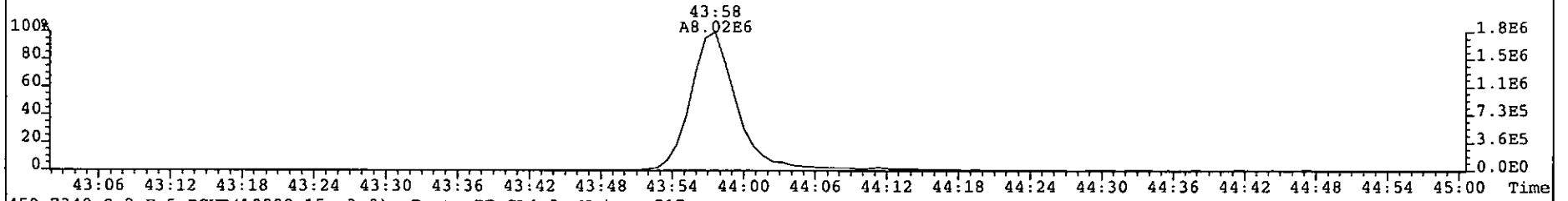
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 382



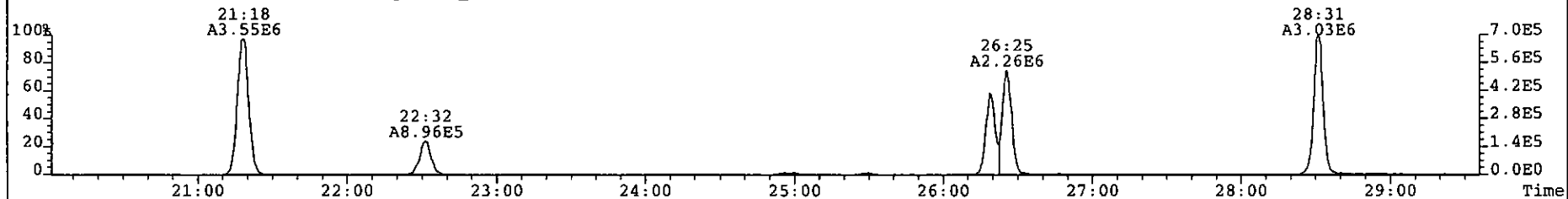
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage STR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 639



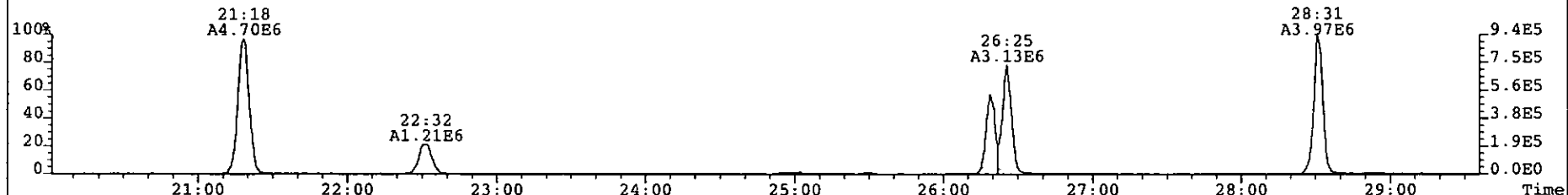
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 157



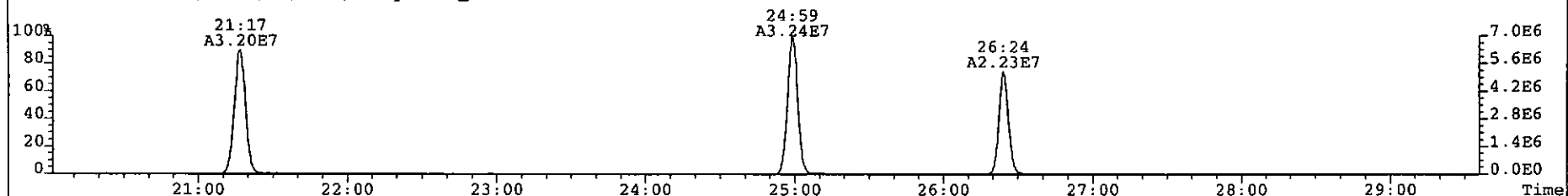
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage STR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
303.9016 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 345



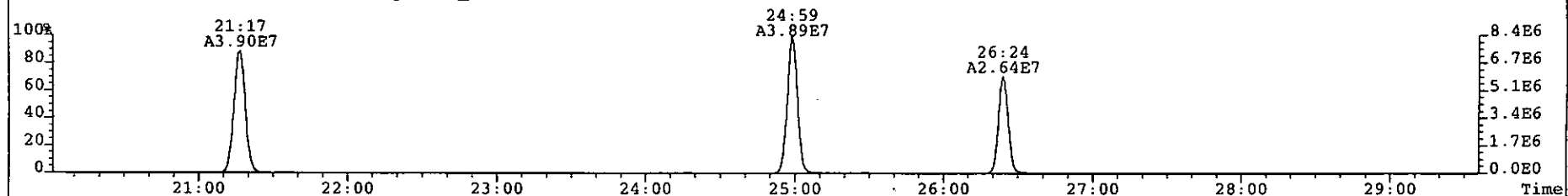
305.8987 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 404



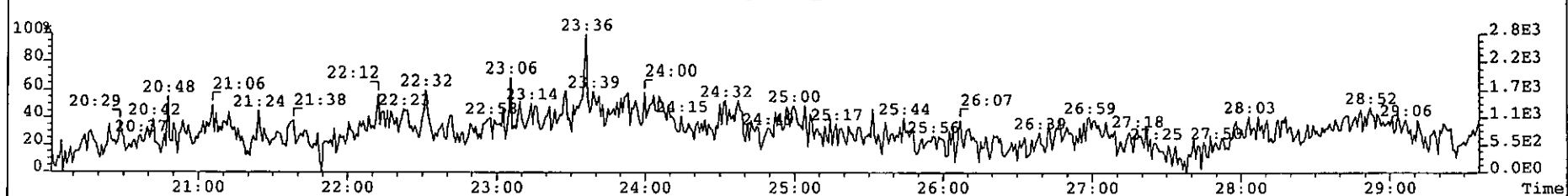
315.9419 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 358



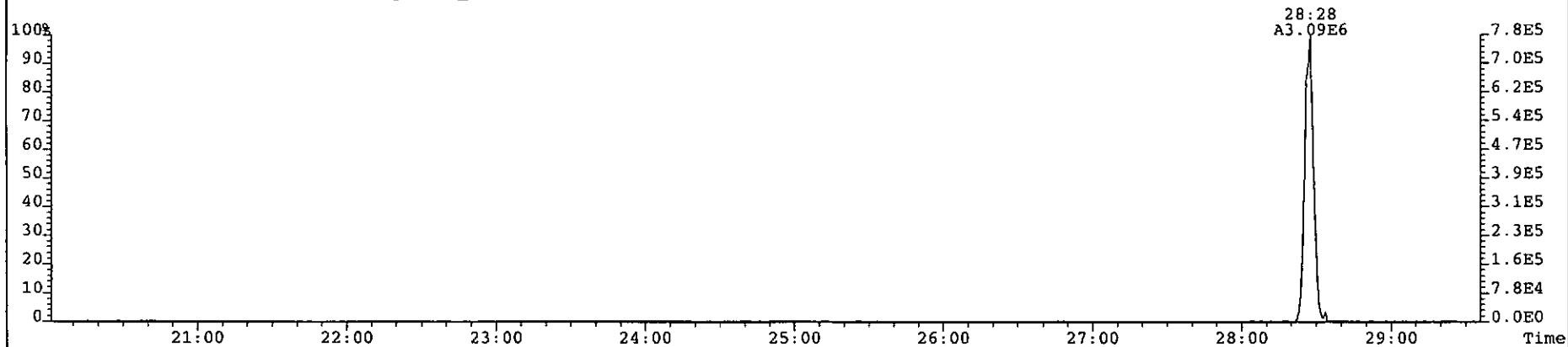
317.9389 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 350



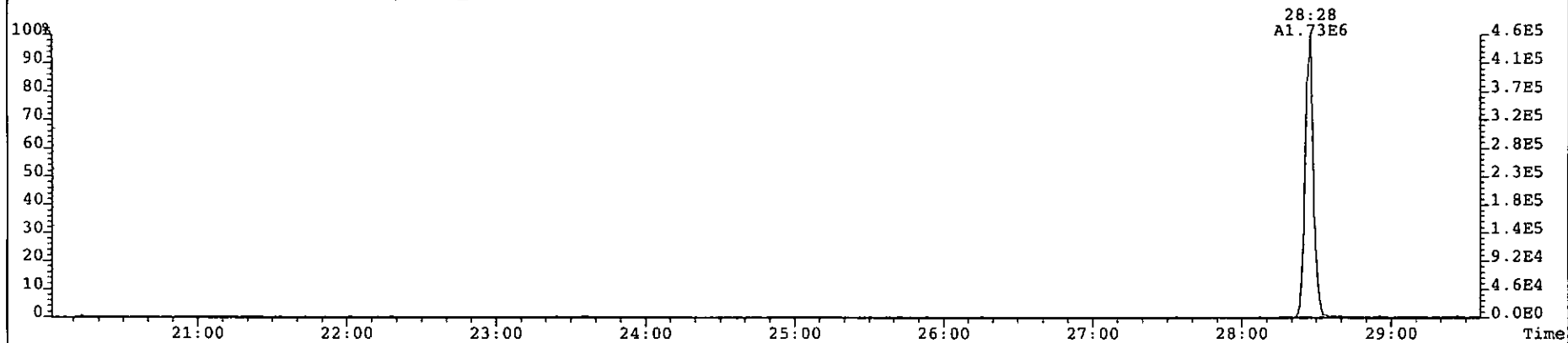
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 260



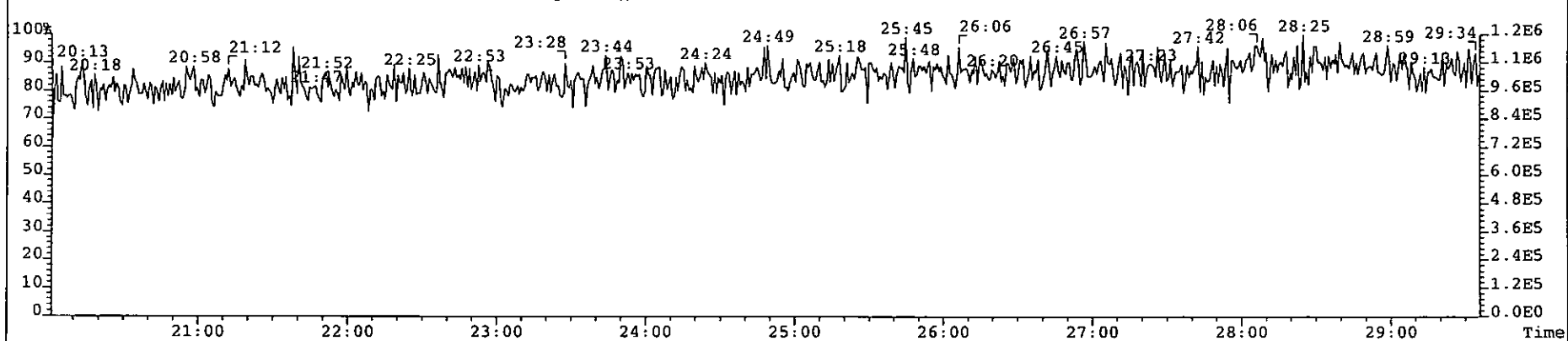
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
339.8597 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 260



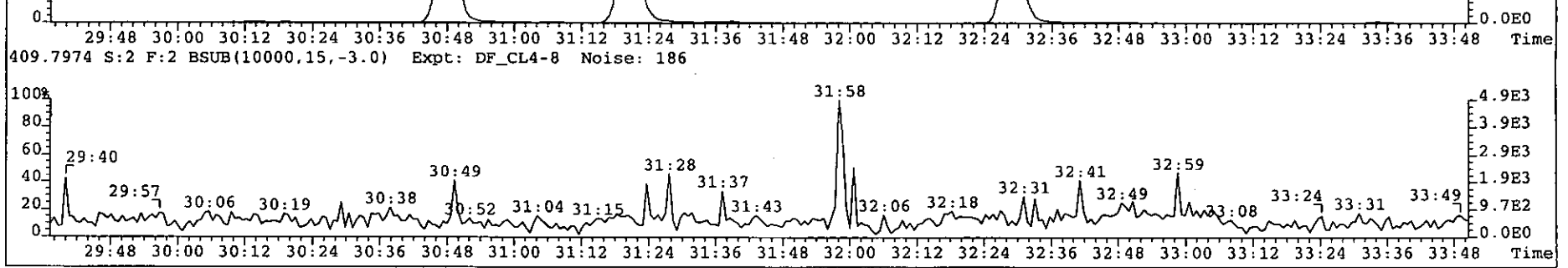
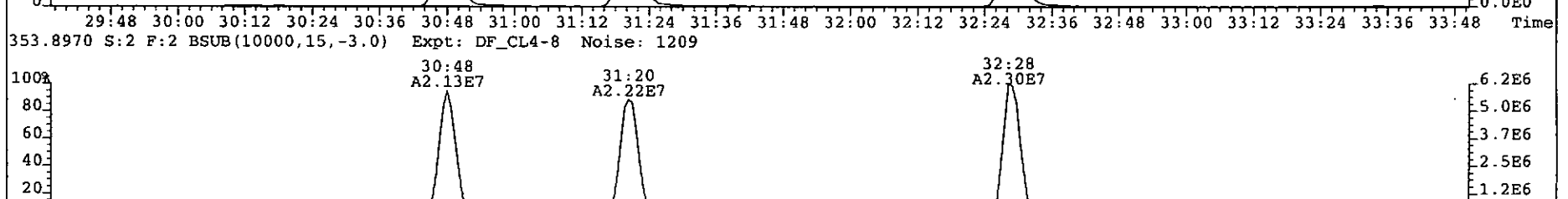
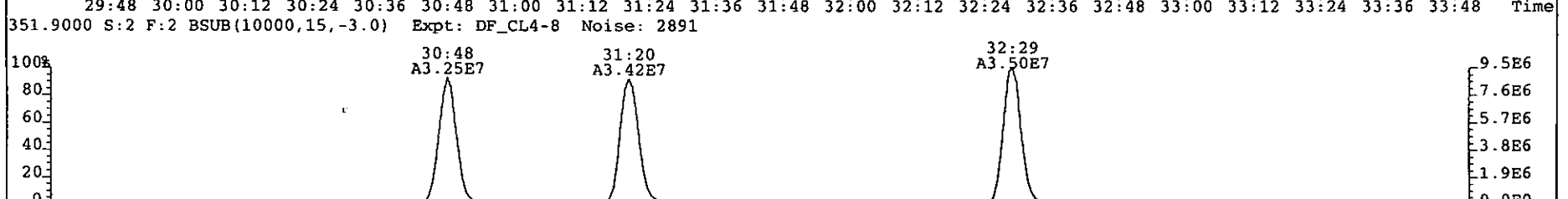
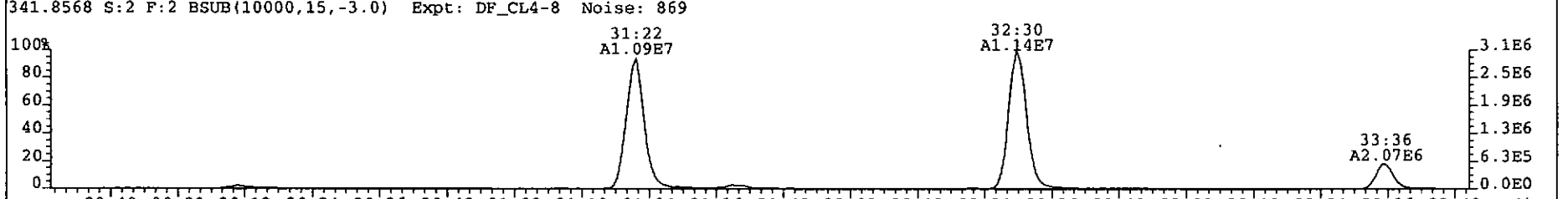
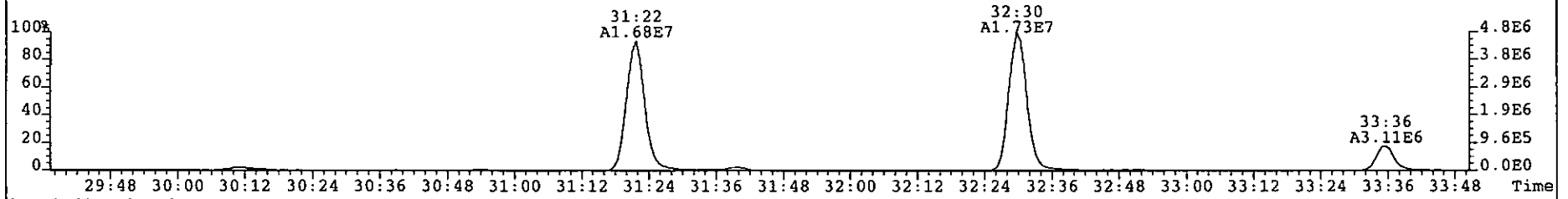
341.8568 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 277



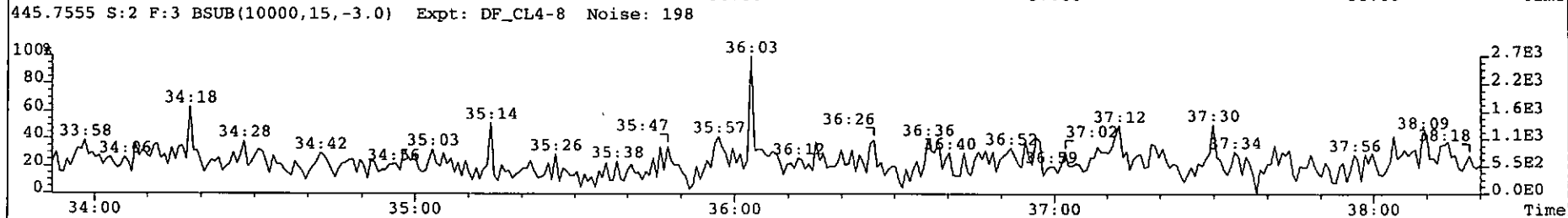
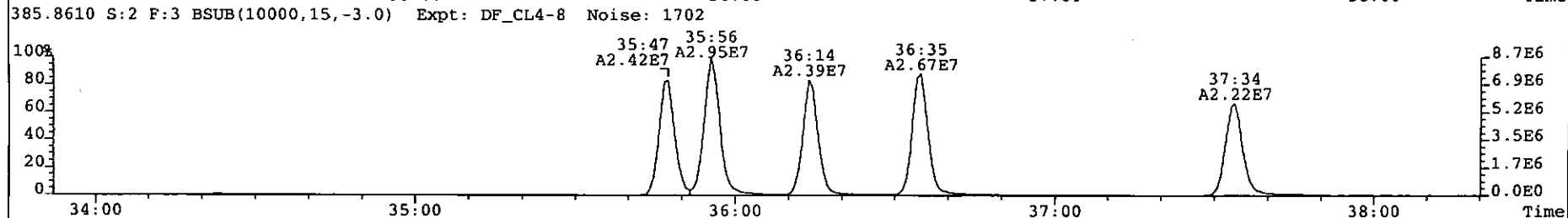
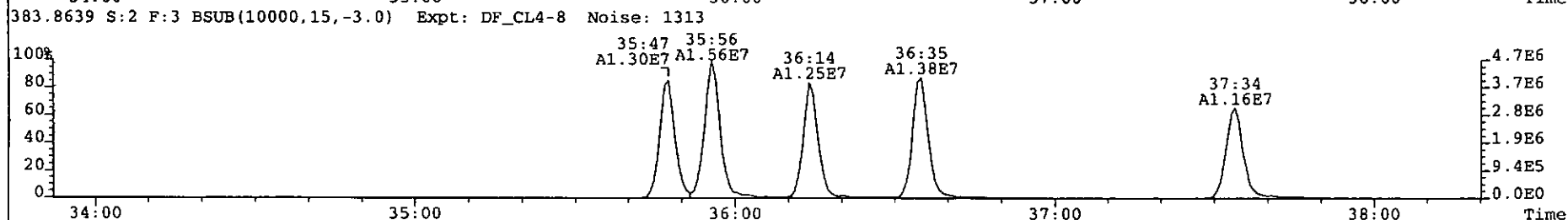
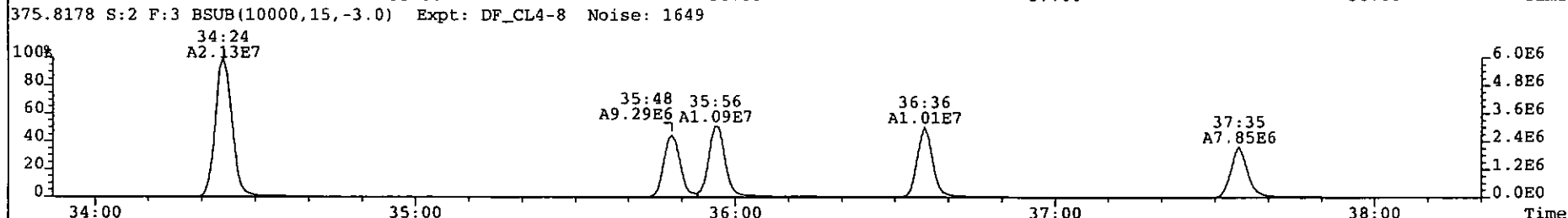
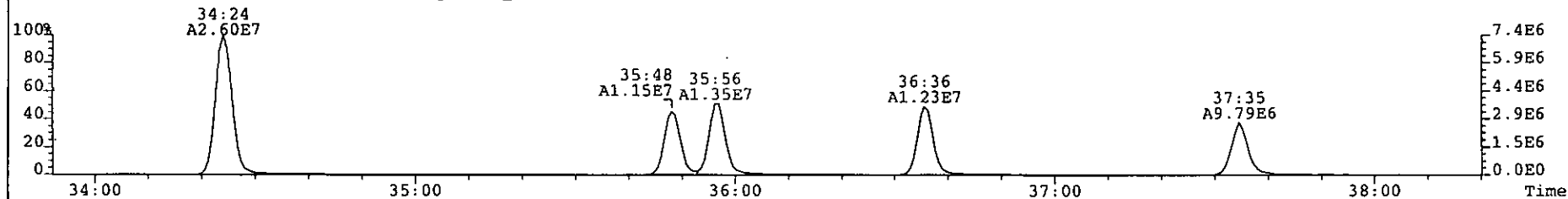
316.9824 S:2 PKD(5,S,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



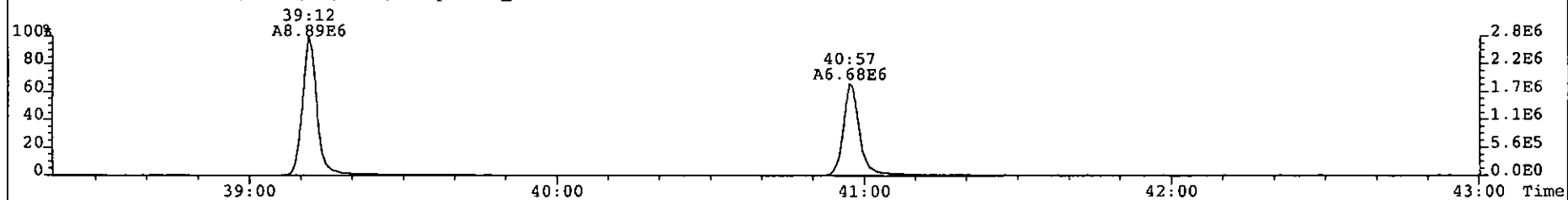
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1016



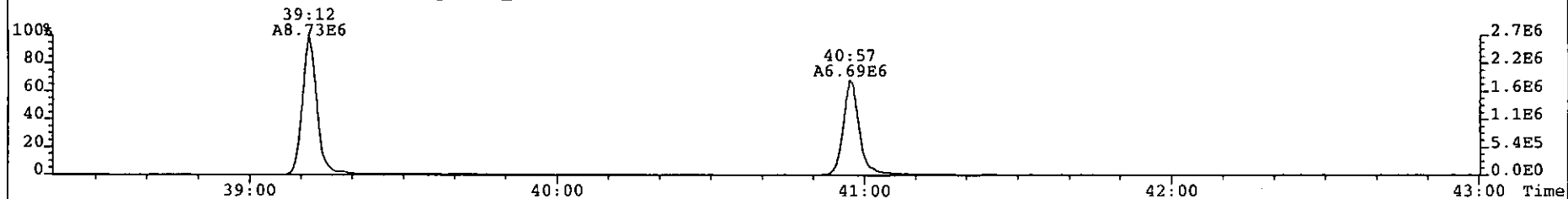
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1645



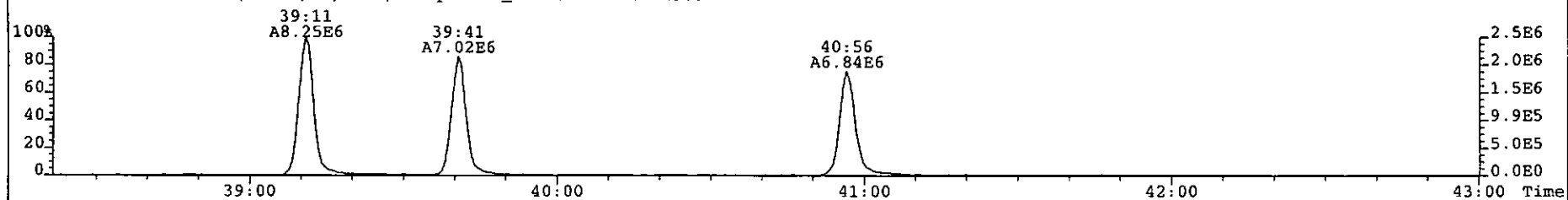
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 858



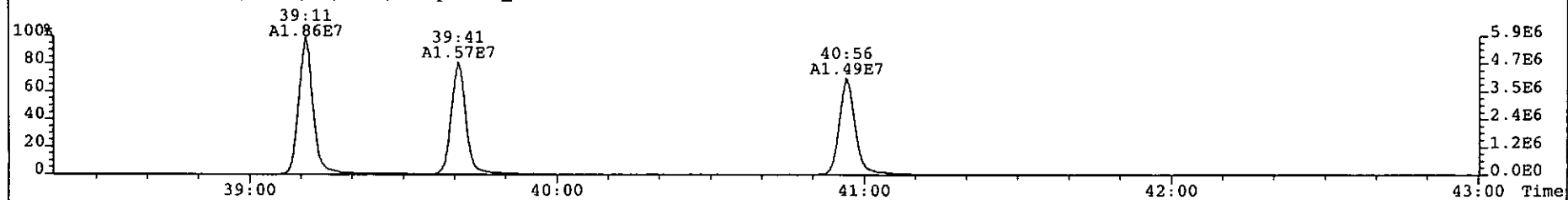
409.7788 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 913



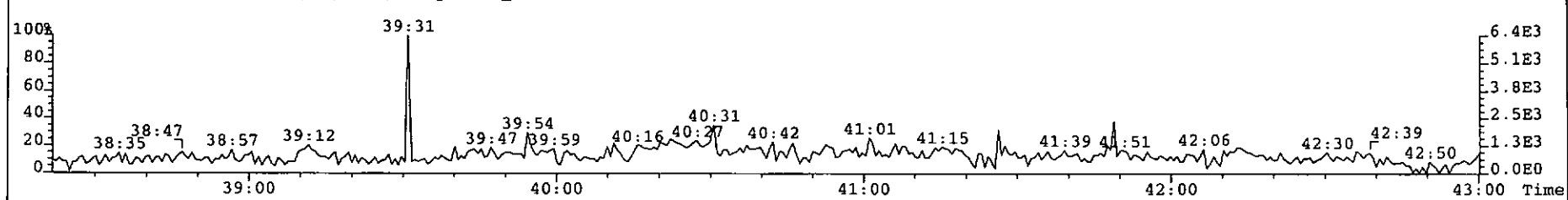
417.8253 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1903



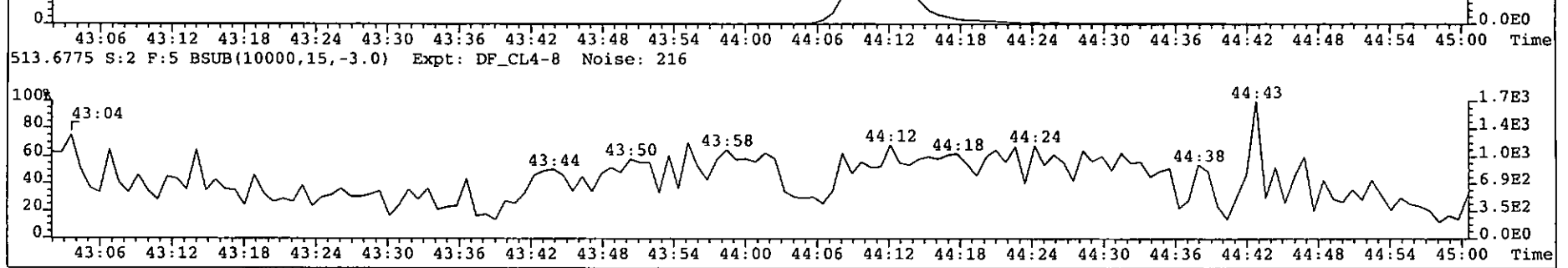
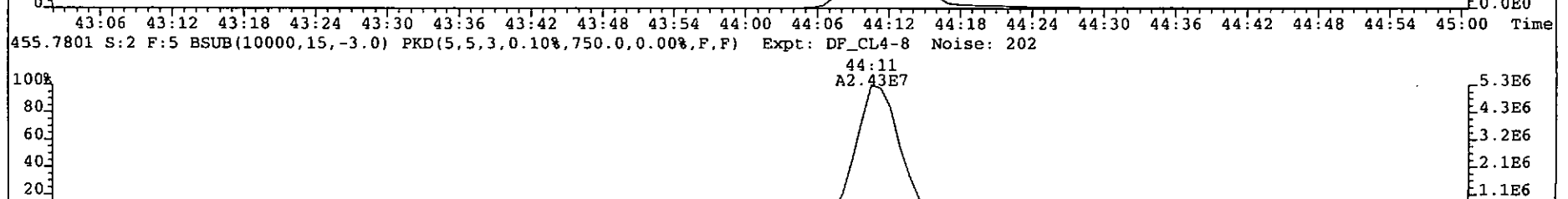
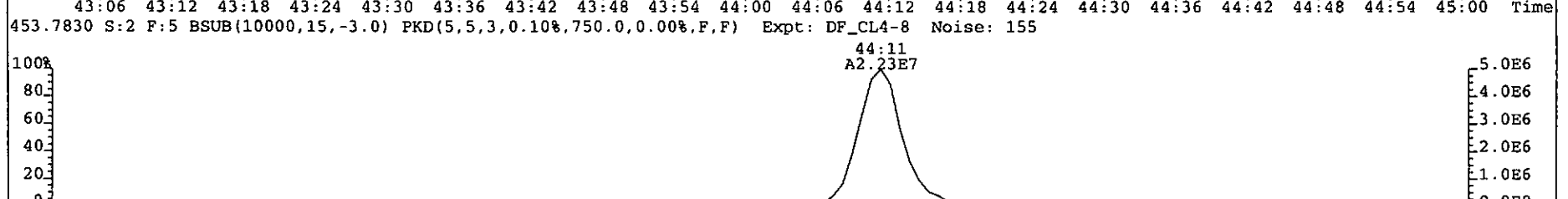
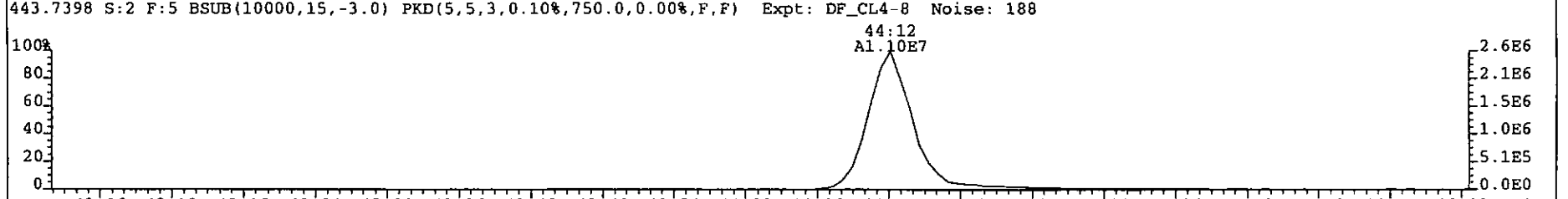
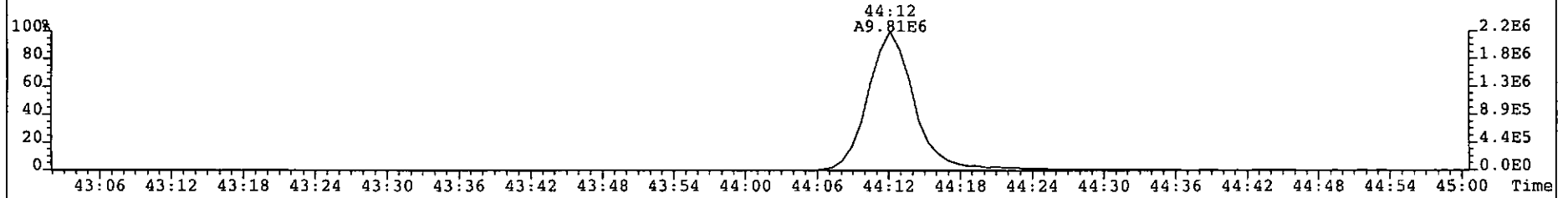
419.8220 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2540



479.7165 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 248



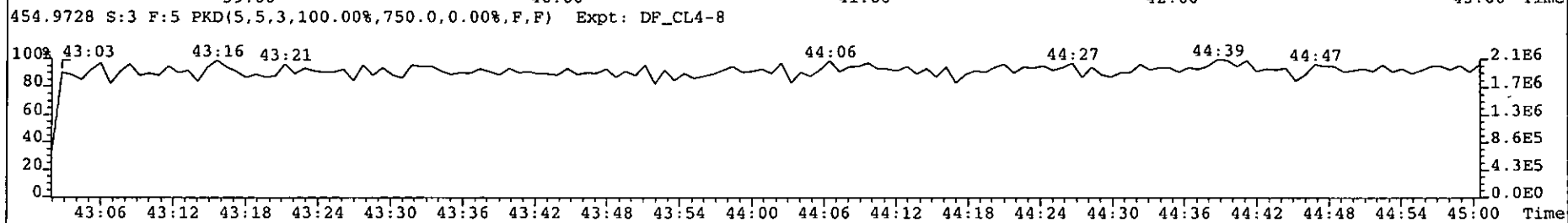
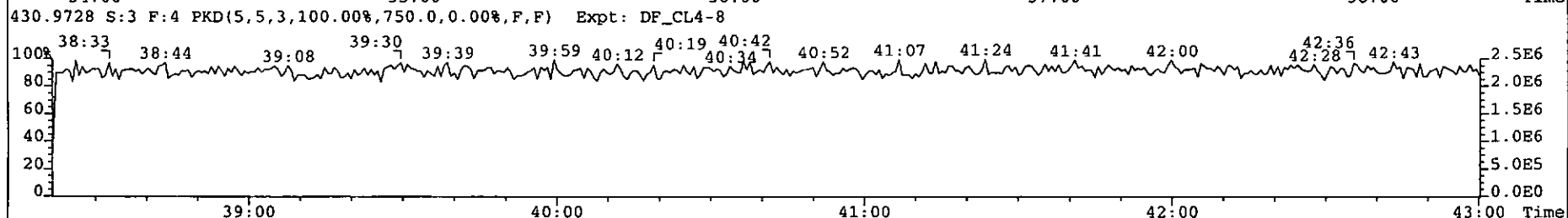
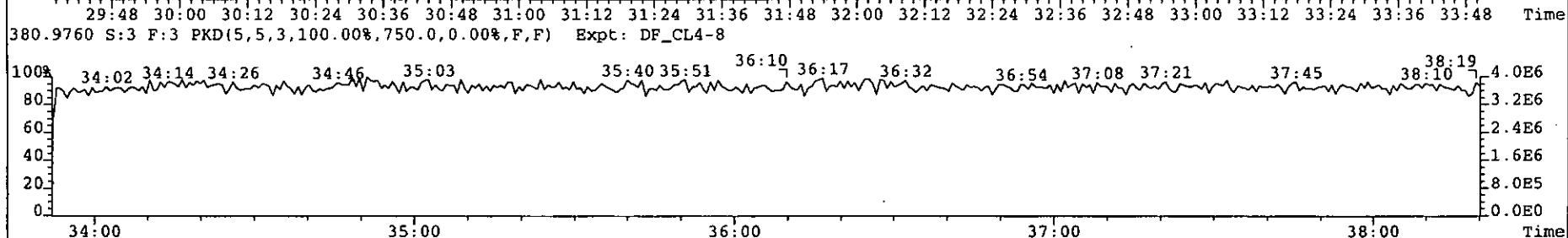
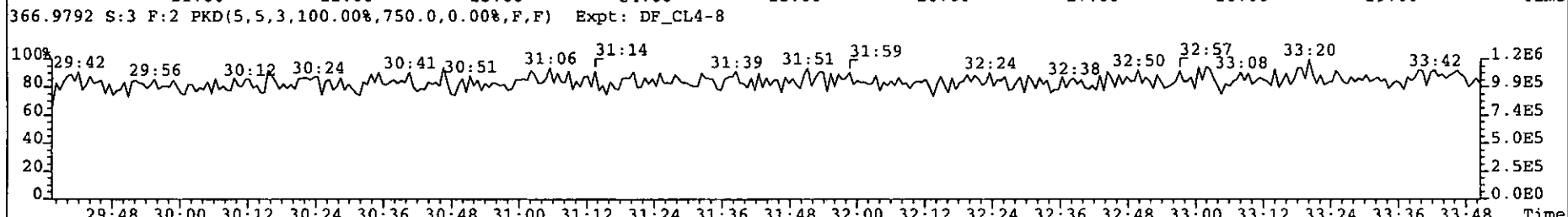
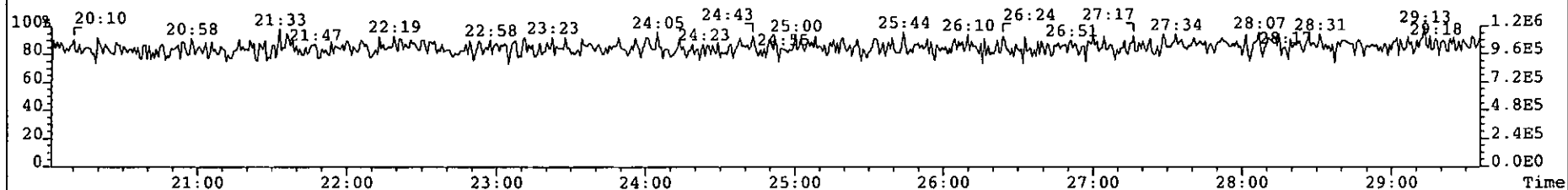
File: 090614P1 Acq: 14-JUN-2009 09:56:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6875_DF 0_6875_OPR001 Vial# 47 File Text: AP DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 193



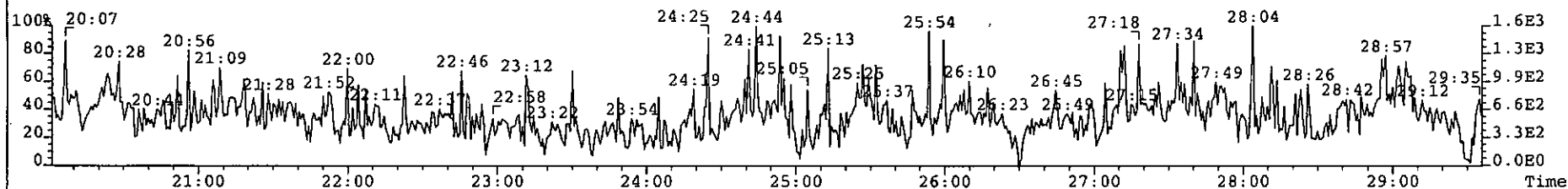
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5

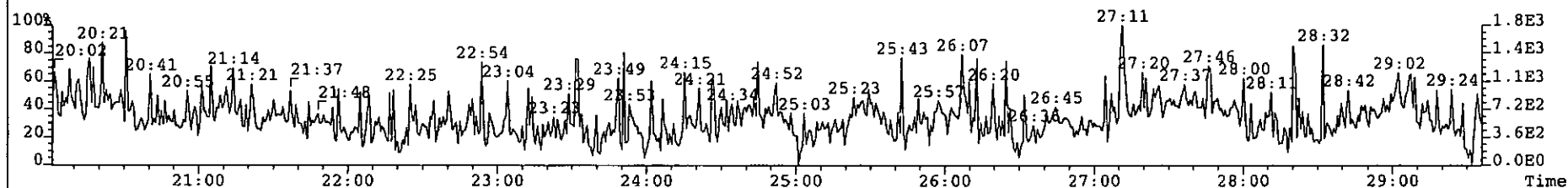
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



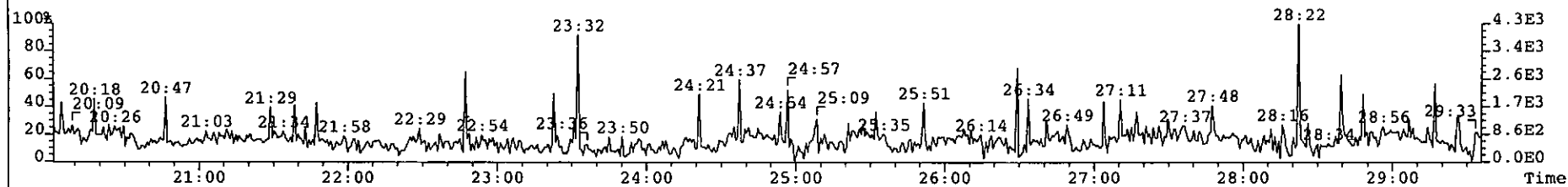
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
319.8965 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 179



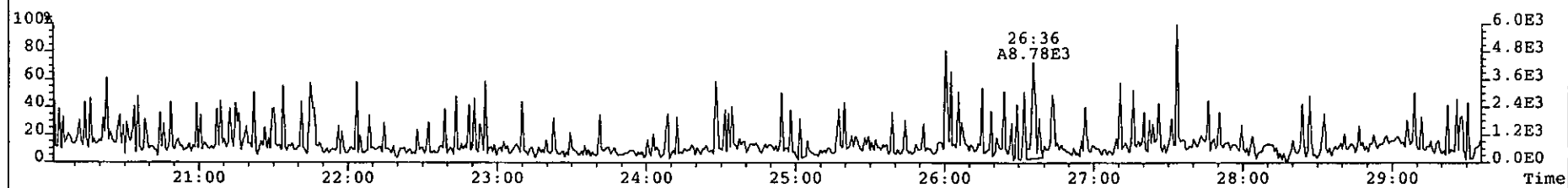
321.8936 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 184



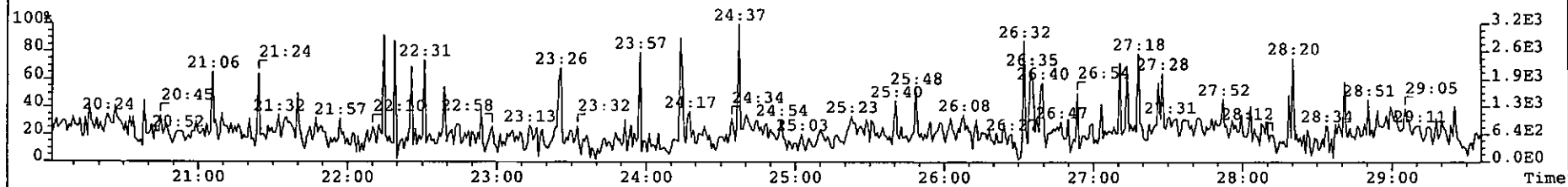
327.8850 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 203



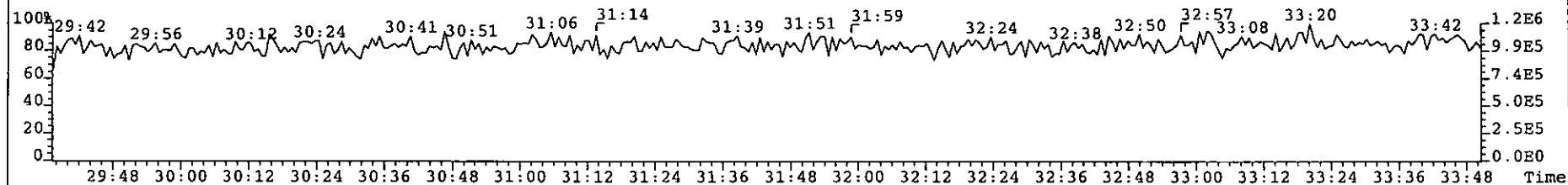
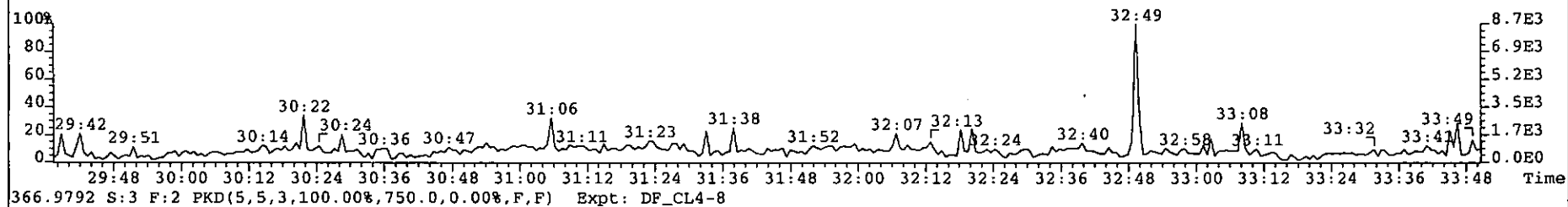
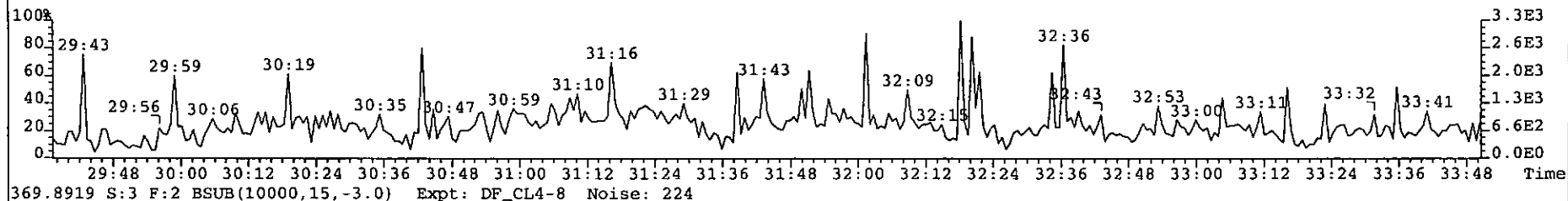
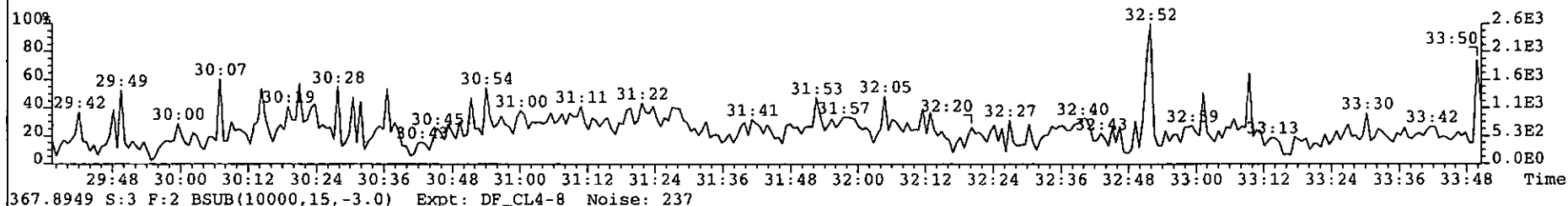
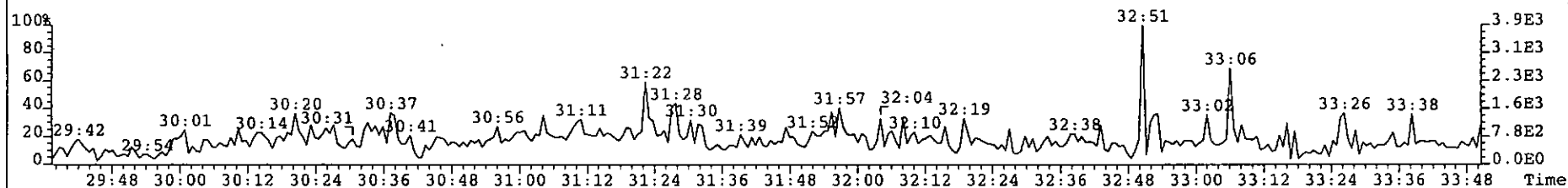
331.9368 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 195



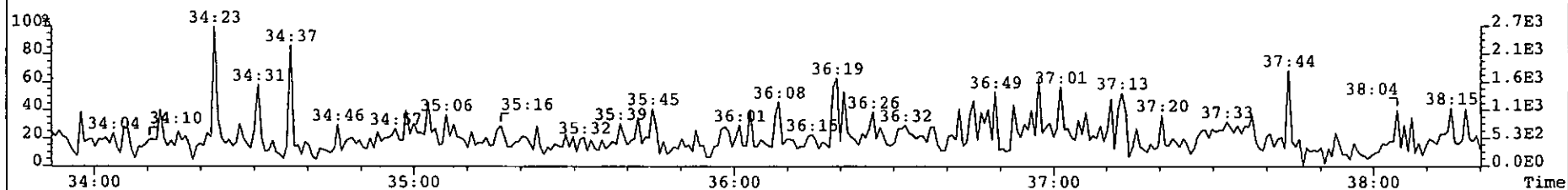
333.9339 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 210



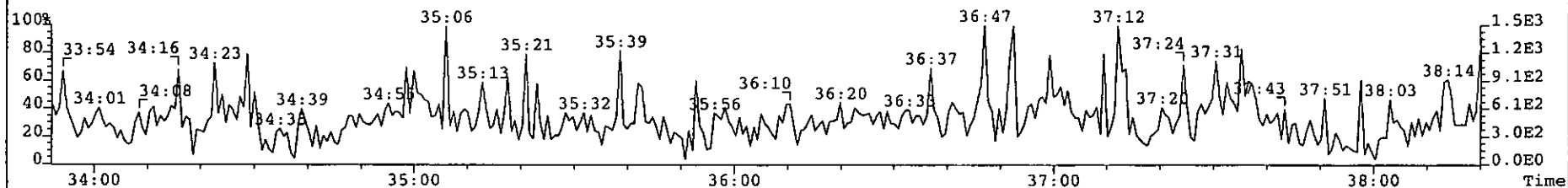
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage STR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
355.8546 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 200



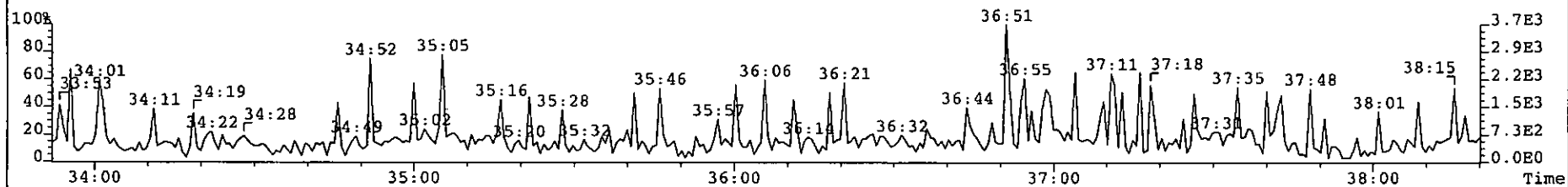
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 154



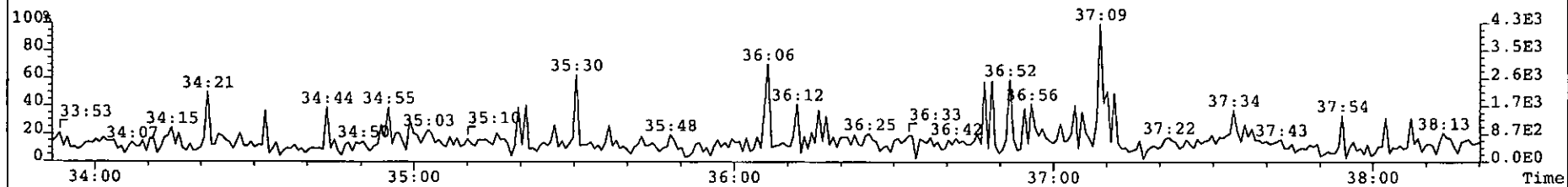
391.8127 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 147



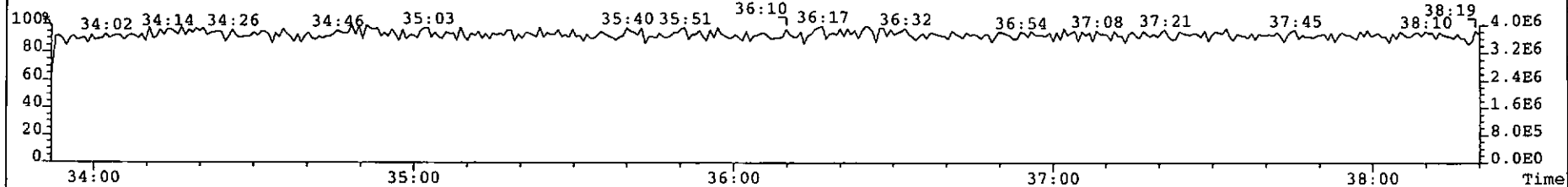
401.8559 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 158



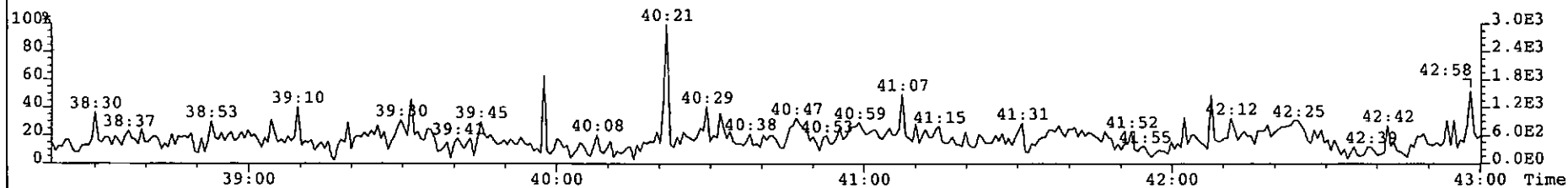
403.8530 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 182



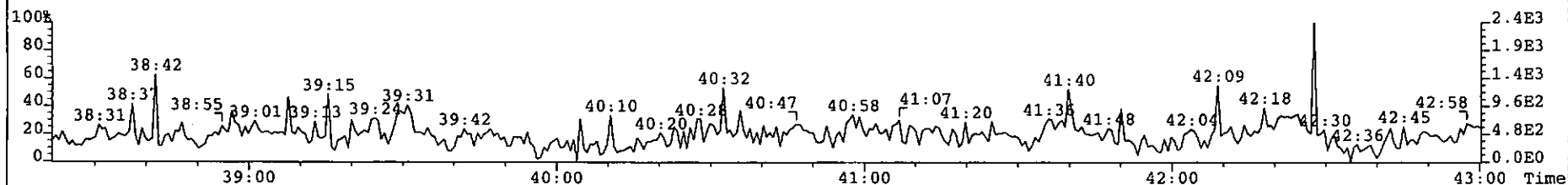
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



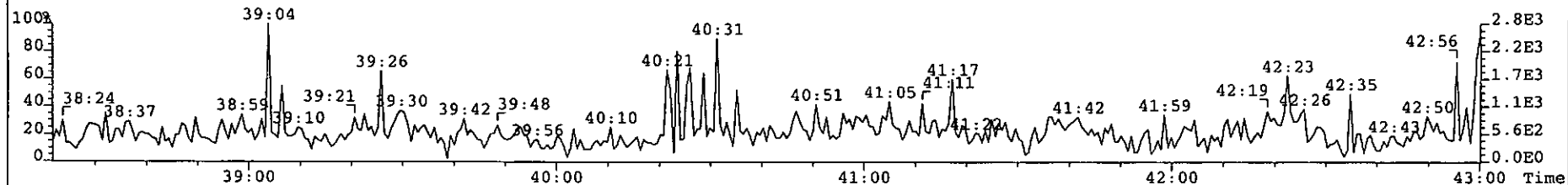
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 157



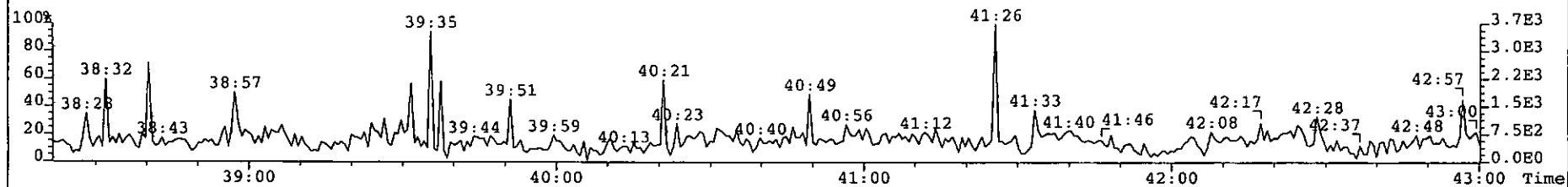
425.7737 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 144



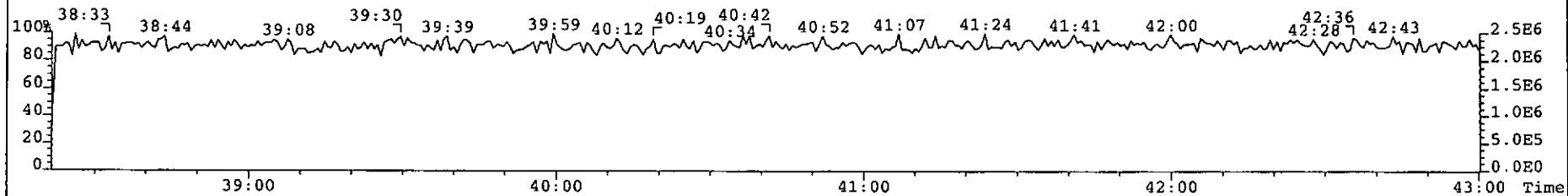
435.8169 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 179



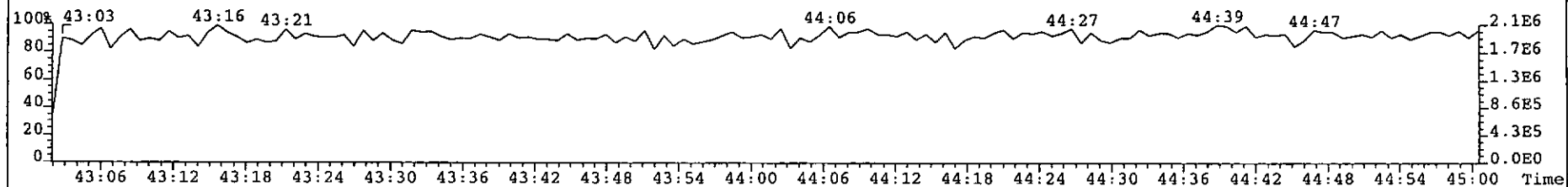
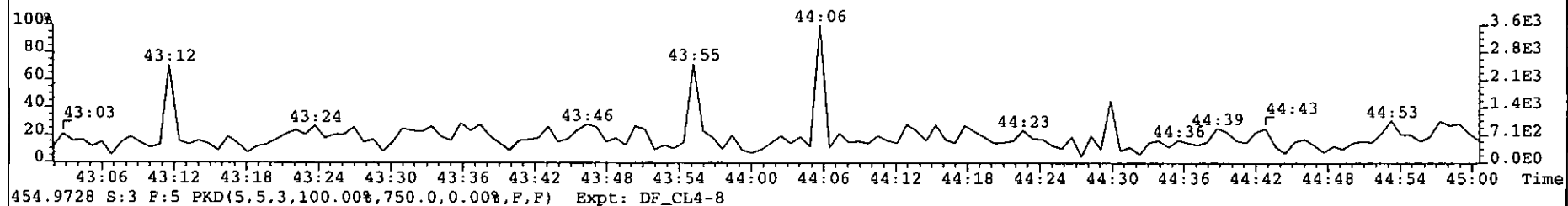
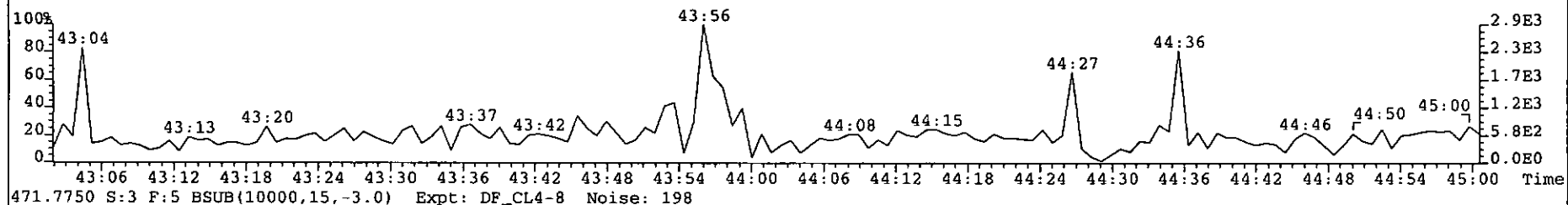
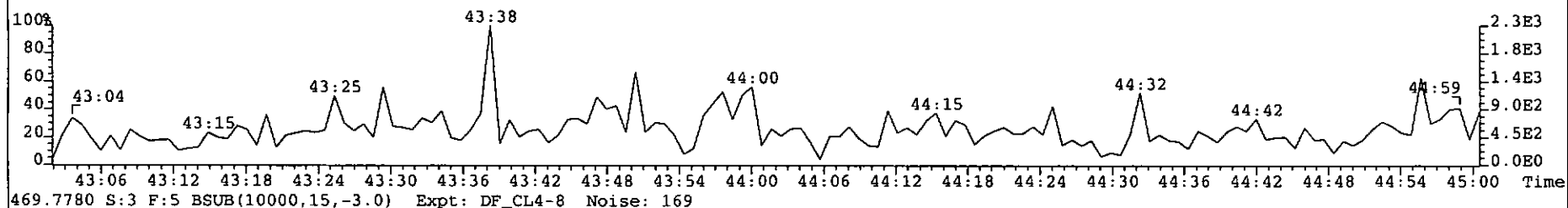
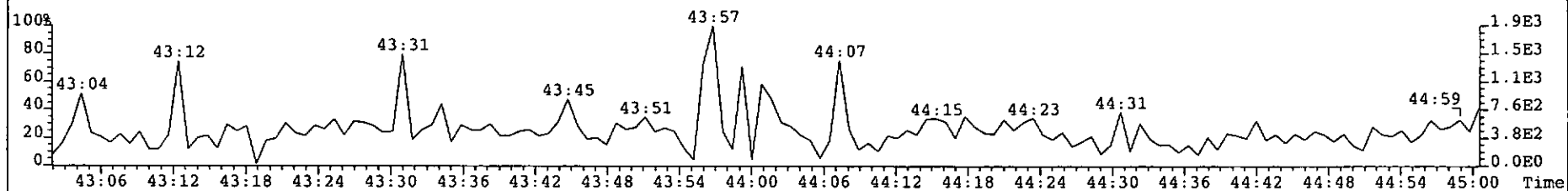
437.8140 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 178



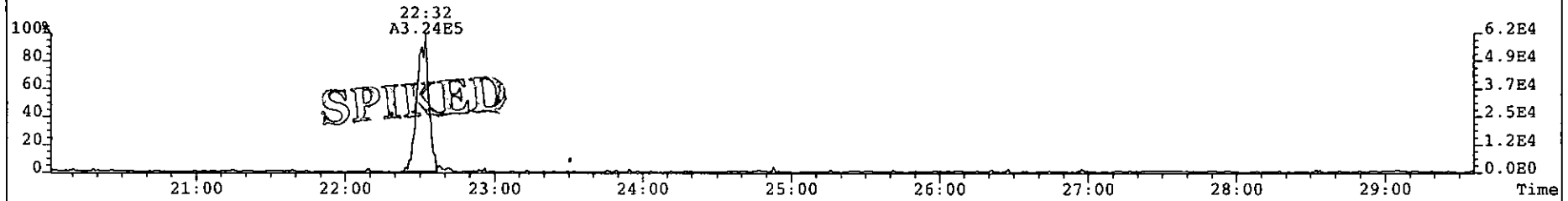
430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



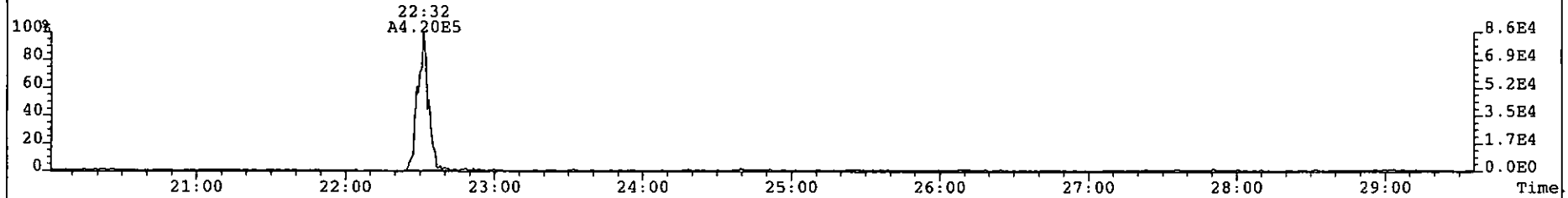
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 139



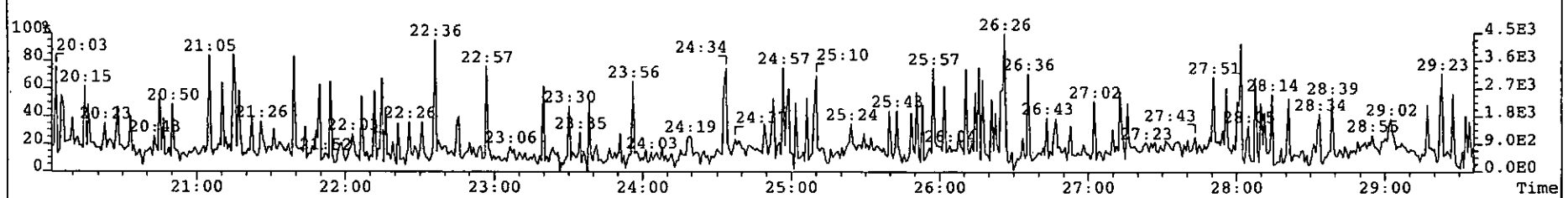
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
303.9016 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 183



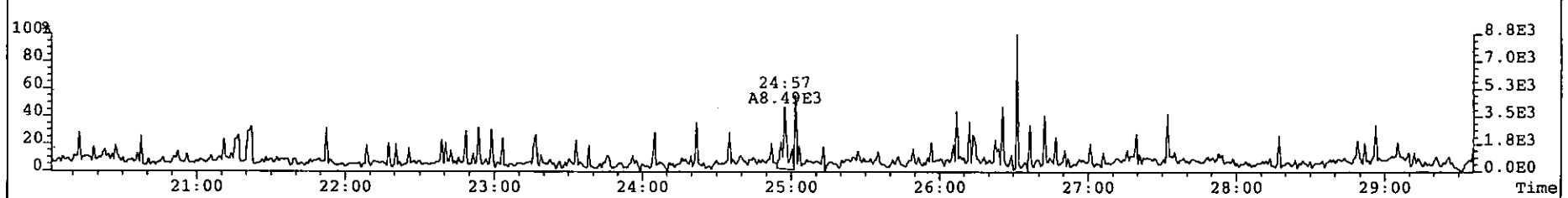
305.8987 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 181



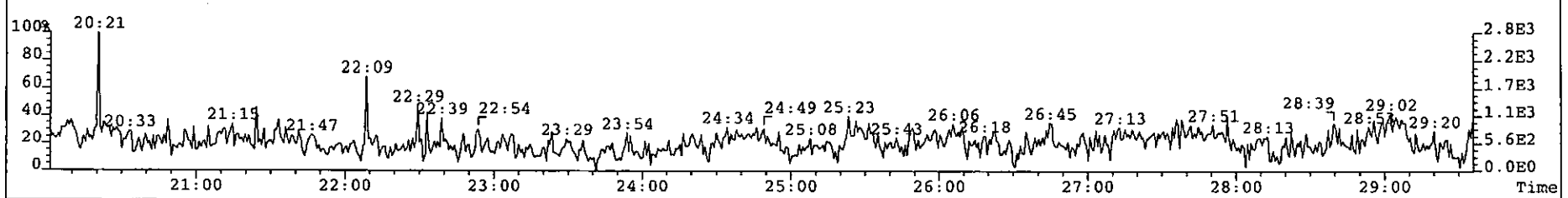
315.9419 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 211



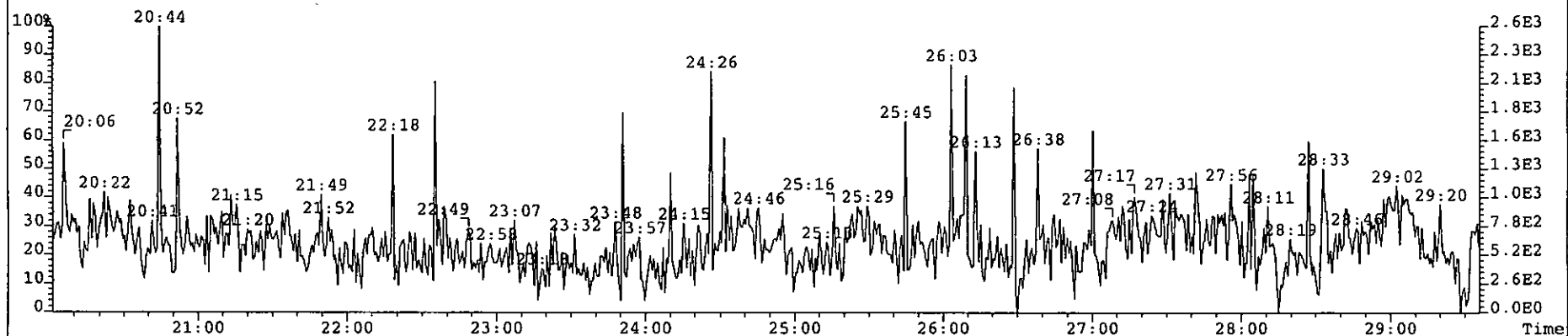
317.9389 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 193



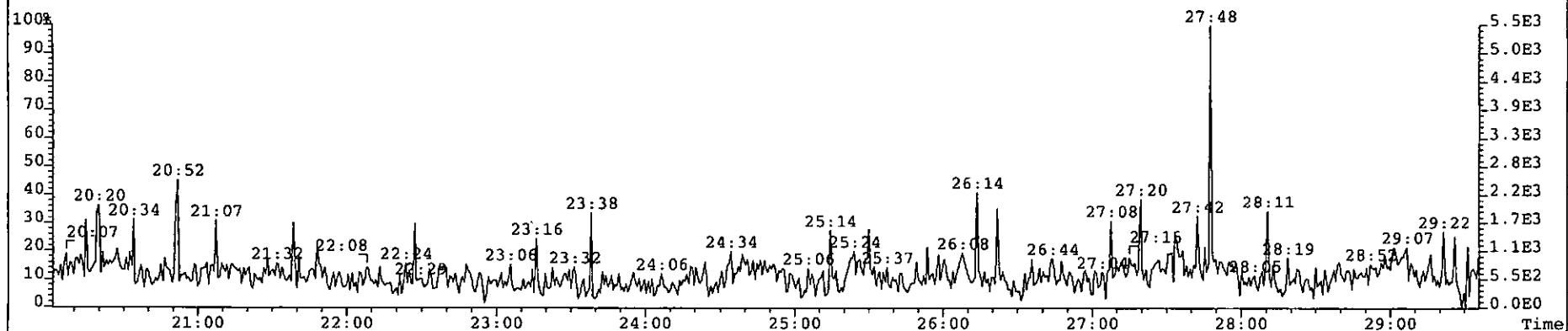
375.8364 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 184



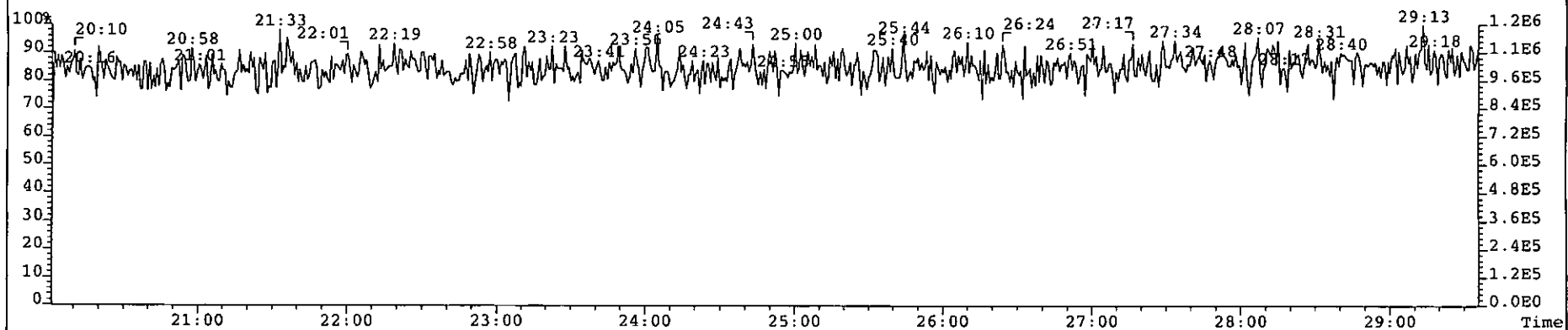
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
339.8597 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 194



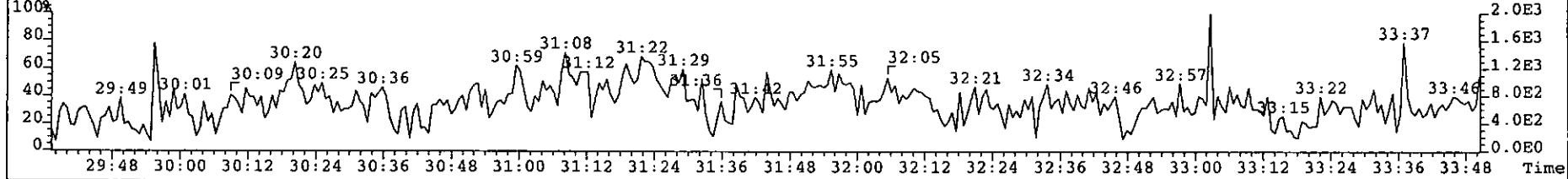
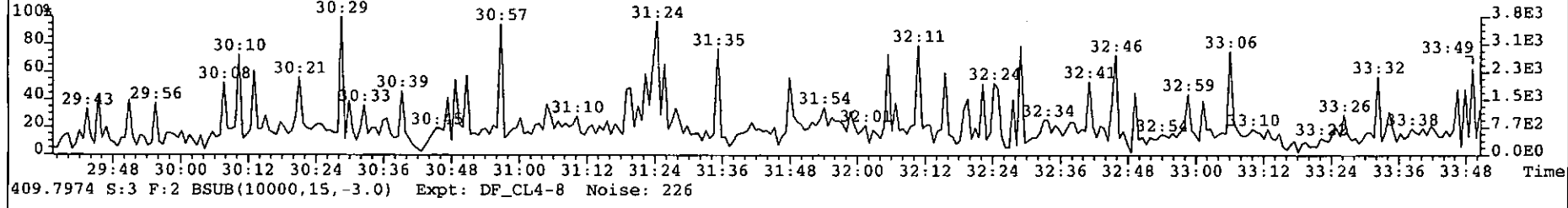
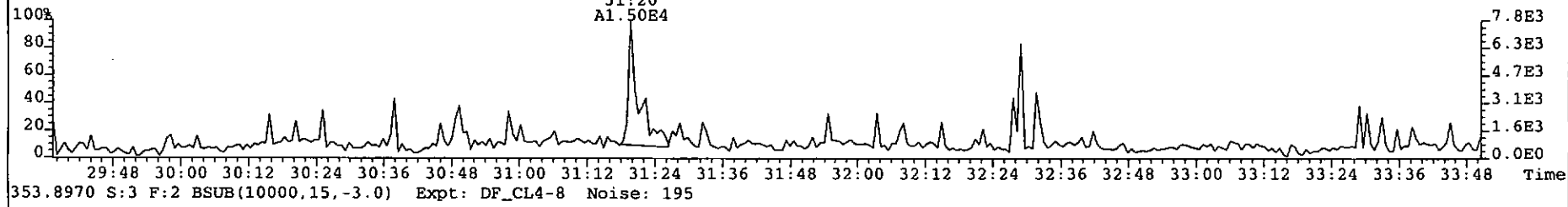
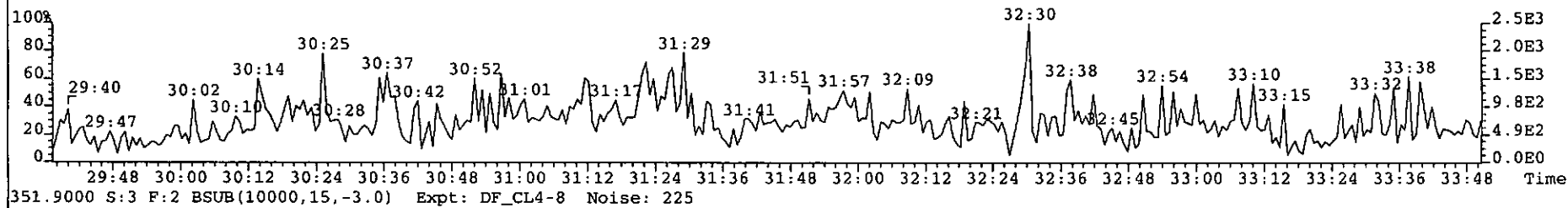
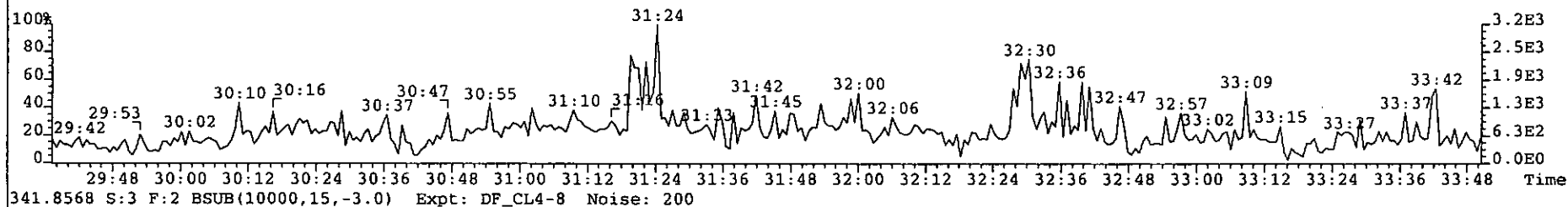
341.8568 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 198



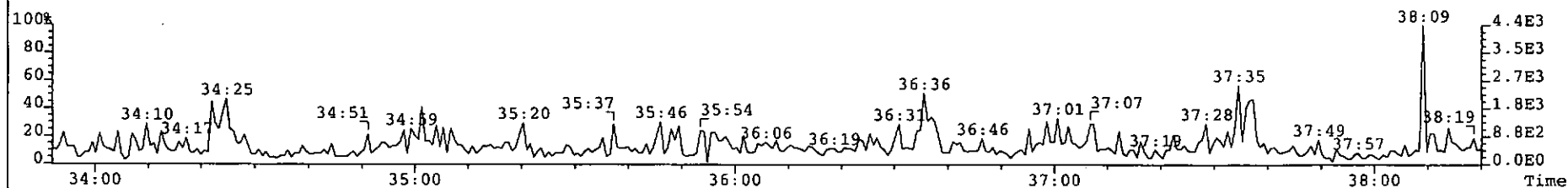
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



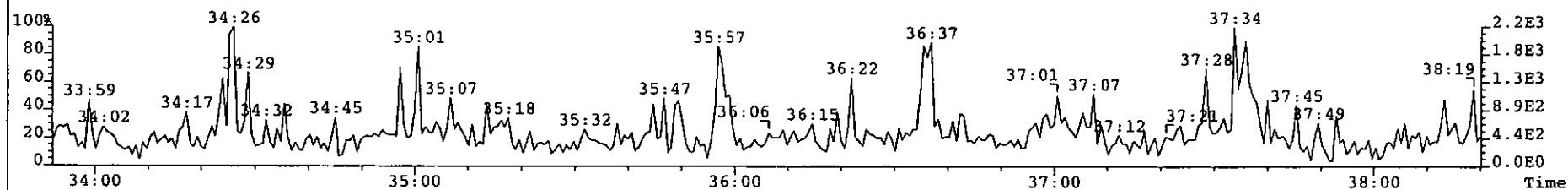
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 208



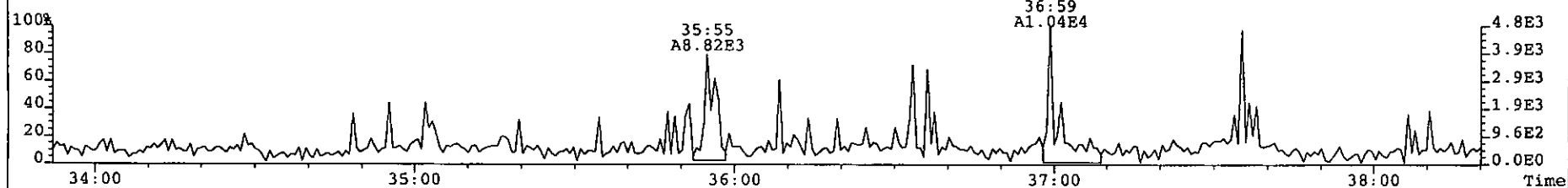
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 148



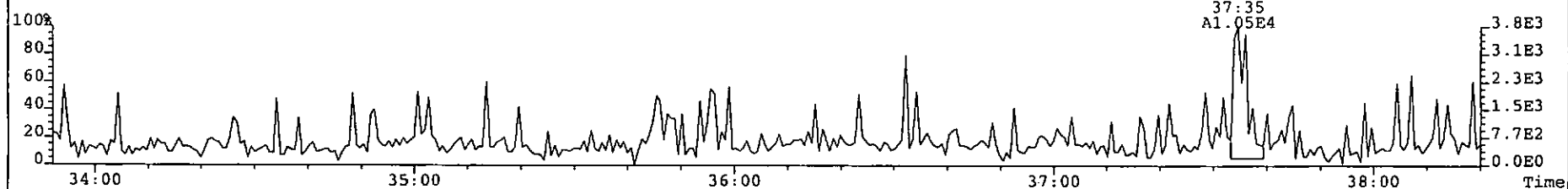
375.8178 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 142



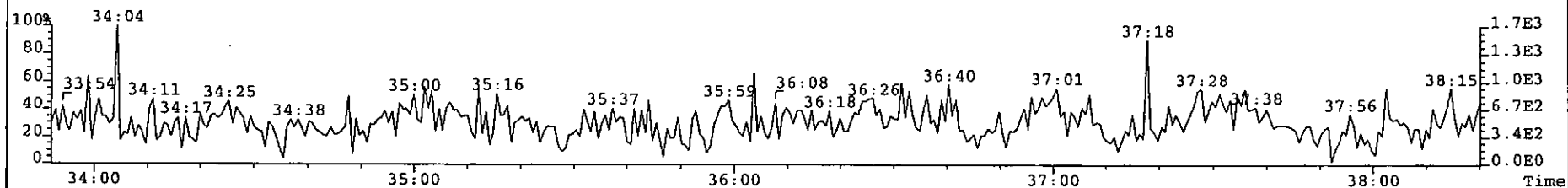
383.8639 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 162



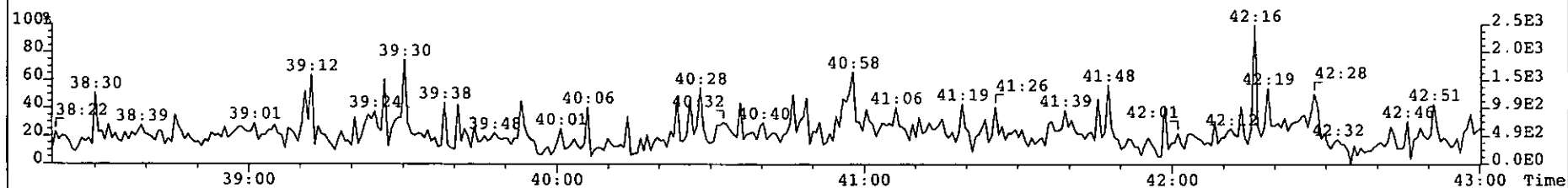
385.8610 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 168



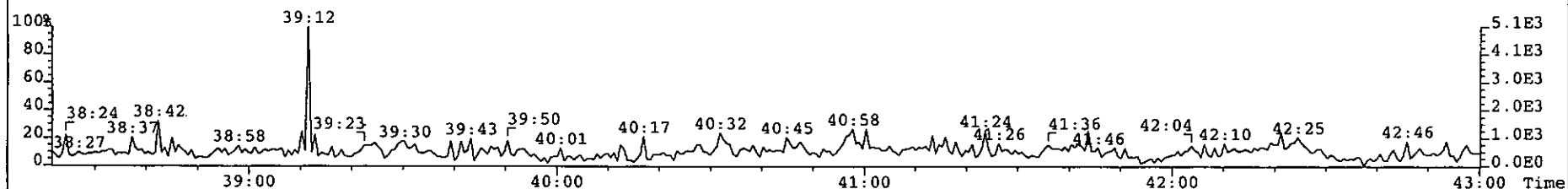
445.7555 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 163



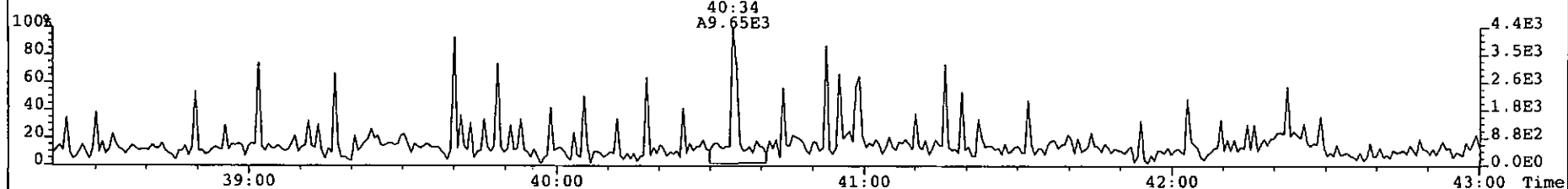
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 162



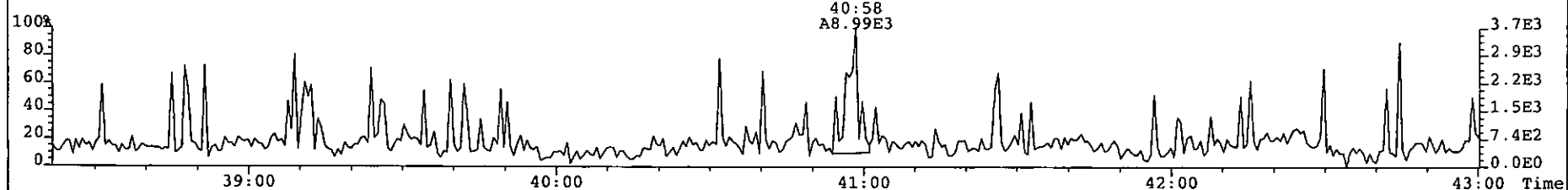
409.7788 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 162



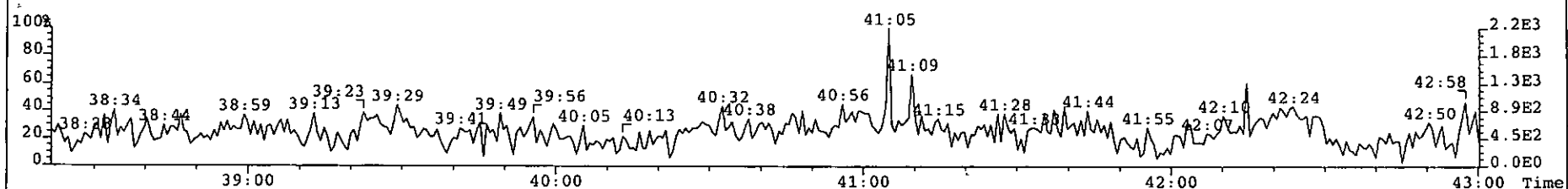
417.8253 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 170



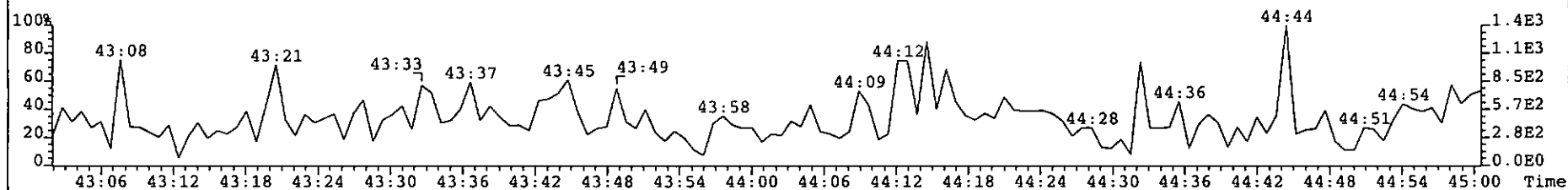
419.8220 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 176



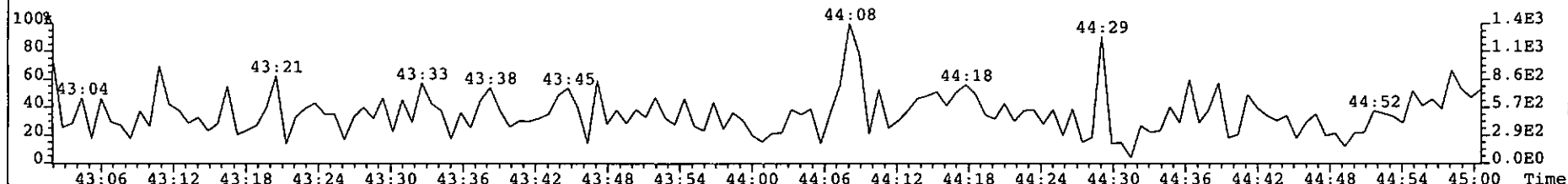
479.7165 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 182



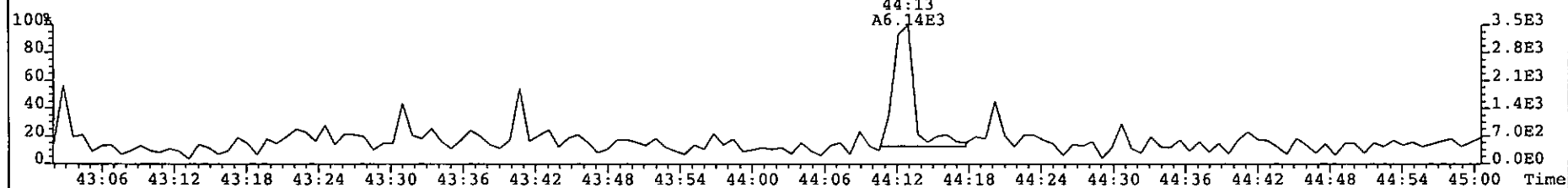
File: 090614P1 Acq: 14-JUN-2009 10:45:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 137



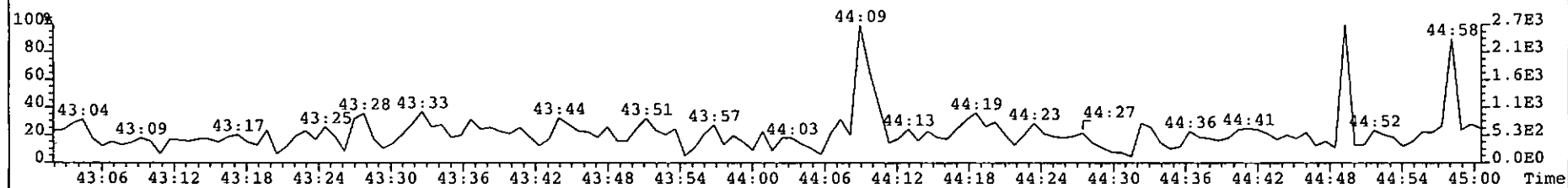
443.7398 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 157



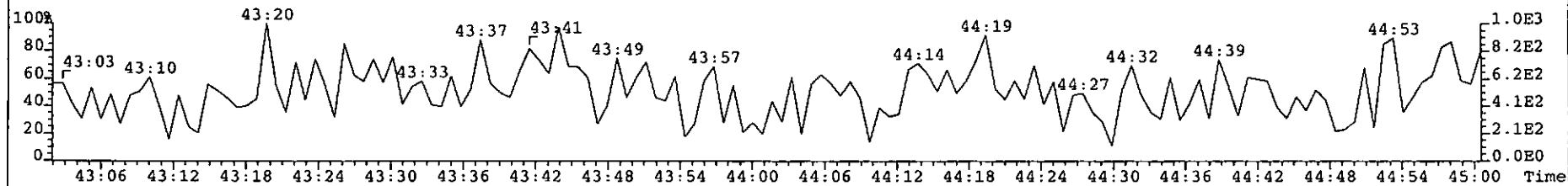
453.7830 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 165



455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 168



513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 167



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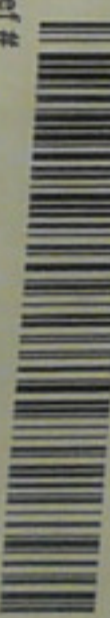
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Anchor QEA, Seattle, WA 206.287.9130
Bay Wood Products Site
Project No: D80207-02
Date: 06-02-2009 Time: 12:45
Sample ID: BW-09-SS-090802
Sample Name: *D-15*
Analysis: Dioxin/Furans
Preservative: 4°C

Anchor QEA, Seattle, WA 206.287.9130
Bay Wood Products Site
Project No: D80207-02
Date: 06-02-2009 Time: 11:40
Sample ID: BW-09-SS-090802
Sample Name: *D-16*
Analysis: Dioxin/Furans
Preservative: 4°C

Anchor QEA, Seattle, WA 206.287.9130
Bay Wood Products Site
Project No: D80207-02
Date: 06-02-2009 Time: 11:40
Sample ID: BW-09-SS-090802
Sample Name: *D-17*
Analysis: Dioxin/Furans
Preservative: 4°C

Anchor QEA, Seattle, WA 206.287.9130
Bay Wood Products Site
Project No: D80207-02
Date: 06-02-2009 Time: 11:40
Sample ID: BW-09-SS-090802
Sample Name: *D-18*
Analysis: Dioxin/Furans
Preservative: 4°C

Anchor QEA, Seattle, WA 206.287.9130
Bay Wood Products Site
Project No: D80207-02
Date: 06-02-2009 Time: 11:40
Sample ID: BW-09-SS-090802
Sample Name: *D-19*
Analysis: Dioxin/Furans
Preservative: 4°C

Anchor QEA, Seattle, WA 206.287.9130
Bay Wood Products Site
Project No: D80207-02
Date: 06-02-2009 Time: 11:40
Sample ID: BW-09-SS-090802
Sample Name: *D-20*
Analysis: Dioxin/Furans
Preservative: 4°C





P1376-001
 ANEWA01A
 Project No: 080207-02
 Date: 06-02-2009 Time: 12:45
 Sample ID: BW-01-SS-090602
 Sampler Name: DMKDP

P1376-002
 ANEWA01A
 Project No: 080207-02
 Date: 06-02-2009 Time: 11:45
 Sample ID: BW-03-SS-090602
 Sampler Name: DMKDP

P1376-003
 Anchor OEA, Seattle, WA 206.287.9130
 Bay Wood Products Site
 Project No: 080207-02
 Date: 06-02-2009 Time: 11:30
 Sample ID: BW-07-SS-090602
 ANEWA01A

P1376-004
 Anchor OEA, Seattle, WA 206.287.9130
 Bay Wood Products Site
 Project No: 080207-02
 Date: 06-02-2009 Time: 15:00
 Sample ID: BW-09-SS-090602
 ANEWA01A

P1376-005
 JW-011-SS-09060
 ANEWA01A
 Date: 06-02-2009 Time: 11:30
 Sample ID: BW-04-SS-090602
 Analysis: Dioxin/Furans
 Preservative: 4°C
 Sampler Name: (1)

P1376-006
 JW-53-SS-09060
 ANEWA01A
 Date: 06-02-2009 Time: 11:30
 Sample ID: BW-53-SS-09060
 Analysis: Dioxin/Furans
 Preservative: 4°C
 Sampler Name: (1)

22 June 2009

Delaney Peterson
 Anchor Environmental, L.L.C.
 1423 3rd Avenue, Suite 300
 Seattle, WA 98101

Ph.: 206.287.9130
 Email: dpeterson@anchorenv.com

Subject: Certificate of Results

Dear Joy;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. A brief description of the report's components is provided. Results are reported on a dry-weight basis and relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	080207-02
AP Project No.	P1376
Analytical Protocol	Method 1613B
No. Samples Submitted	6
No. Samples Analyzed	6
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
No. Outstanding Samples	0
Date Received	4-Jun-2009
Condition Received	Good
Temperature upon Receipt (C)	4
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	see below
Analytical Difficulties	see below

QC Annotations:

1. A “J” data qualifier is used for analytes with a concentration below the reporting limit.
2. The new ratio – [Ra] -- for 2,3,7,8-TCDD following the $^{37}\text{Cl}_4$ -2,3,7,8-TCDD correction is shown between squared brackets in the DL column.

Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us. Thank you for choosing Analytical Perspectives as part of your analytical support team.

Sincerely,



Heather Steele, Ph.D.
Project Manager

P1376 - TEQ
Project ID: 080207-02


Sample Summary
Part 1 (dry weight)



Method 1613

Analyte	0_6875_MB001 pg/g	BW-01-SS-090602 pg/g	BW-03-SS-090602 pg/g	BW-07-SS-090602 pg/g	BW-09-SS-090602 pg/g	BW-11-SS-090602 pg/g	BW-53-SS-090602 pg/g
2,3,7,8-TCDD	(0.0537)	[0.293]	0.312	0.264	[0.57]	[0.223]	0.183
1,2,3,7,8-PeCDD	(0.103)	1.27	1.07	1.48	[1.49]	0.801	0.684
1,2,3,4,7,8-HxCDD	(0.102)	2.24	1.49	6.48	2.46	1.38	1.56
1,2,3,6,7,8-HxCDD	(0.11)	15	8.2	9.59	7.36	5.08	6.76
1,2,3,7,8,9-HxCDD	(0.118)	5.94	3.78	6	3.88	2.82	2.86
1,2,3,4,6,7,8-HpCDD	(0.154)	264	130	301	98	89.8	93.5
OCDD	(0.452)	2380	1160	2810	686	731	734
2,3,7,8-TCDF	(0.0877)	1.48	1.22	0.825	3.45	1.16	1.03
1,2,3,7,8-PeCDF	(0.0971)	0.8	[0.474]	[0.423]	1.16	0.402	0.408
2,3,4,7,8-PeCDF	(0.0908)	1.61	1.05	1.03	2.8	0.928	0.824
1,2,3,4,7,8-HxCDF	(0.0663)	1.97	1.26	1.75	3.11	0.821	0.86
1,2,3,6,7,8-HxCDF	(0.0618)	1.81	1.09	1.53	2.18	0.693	0.778
2,3,4,6,7,8-HxCDF	(0.0702)	2.65	1.76	2.35	2.86	1.12	1.31
1,2,3,7,8,9-HxCDF	(0.0954)	[0.569]	[0.336]	0.635	0.785	0.275	0.357
1,2,3,4,6,7,8-HpCDF	(0.103)	44.6	27.9	41.3	19.9	12.2	17.3
1,2,3,4,7,8,9-HpCDF	(0.165)	2.72	1.43	2.4	1.51	0.763	0.952
OCDF	(0.31)	118	64.8	121	33.6	33.3	35.6
ITEF TEQ (ND=0; EMPC=0)	0.00	10.2	6.07	10.8	5.98	4.01	4.40
ITEF TEQ (ND=0; EMPC=EMPC)	0.00	10.5	6.13	10.8	7.300	4.23	4.40
ITEF TEQ (ND=DL/2; EMPC=0)	0.116	10.2	6.08	10.8	6.05	4.05	4.40
ITEF TEQ (ND=DL/2; EMPC=EMPC)	0.116	10.5	6.13	10.8	7.300	4.23	4.40
ITEF TEQ (ND=DL; EMPC=EMPC)	0.232	10.5	6.13	10.8	7.300	4.23	4.40
Checkcode	4116	4424	0519	0811	1092	4823	1661

() = DL
 [] = EMPC

Reviewer
 Date 

P1376 - WHO 2005 TEF-TEQ

Project ID: 080207-02

Analyte	0_6875_MB0 01	BW-01-SS- 090602	BW-03-SS- 090602	BW-07-SS- 090602	BW-09-SS- 090602	BW-11-SS- 090602	BW-53-SS- 090602
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2,3,7,8-TCDD	(0.0537)	[0.293]	0.312	0.264	[0.57]	[0.223]	0.183
1,2,3,7,8-PeCDD	(0.103)	1.27	1.07	1.48	[1.49]	0.801	0.684
1,2,3,4,7,8-HxCDD	(0.102)	2.24	1.49	6.48	2.46	1.38	1.56
1,2,3,6,7,8-HxCDD	(0.11)	15	8.2	9.59	7.36	5.08	6.76
1,2,3,7,8,9-HxCDD	(0.118)	5.94	3.78	6	3.88	2.82	2.86
1,2,3,4,6,7,8-HpCDD	(0.154)	264	130	301	98	89.8	93.5
OCDD	(0.452)	2380	1160	2810	686	731	734
2,3,7,8-TCDF	(0.0877)	1.48	1.22	0.825	3.45	1.16	1.03
1,2,3,7,8-PeCDF	(0.0971)	0.8	[0.474]	[0.423]	1.16	0.402	0.408
2,3,4,7,8-PeCDF	(0.0908)	1.61	1.05	1.03	2.8	0.928	0.824
1,2,3,4,7,8-HxCDF	(0.0663)	1.97	1.26	1.75	3.11	0.821	0.86
1,2,3,6,7,8-HxCDF	(0.0618)	1.81	1.09	1.53	2.18	0.693	0.778
2,3,4,6,7,8-HxCDF	(0.0702)	2.65	1.76	2.35	2.86	1.12	1.31
1,2,3,7,8,9-HxCDF	(0.0954)	[0.569]	[0.336]	0.635	0.785	0.275	0.357
1,2,3,4,6,7,8-HpCDF	(0.103)	44.6	27.9	41.3	19.9	12.2	17.3
1,2,3,4,7,8,9-HpCDF	(0.165)	2.72	1.43	2.4	1.51	0.763	0.952
OCDF	(0.31)	118	64.8	121	33.6	33.3	35.6
WHO 2005 TEF TEQ (ND=0; EMPC=0)	0.00	8.75	5.54	9.30	4.89	3.68	4.03
WHO 2005 TEF TEQ (ND=0; EMPC=EMPC)	0.00	9.10	5.59	9.31	6.96	3.91	4.03
WHO 2005 TEF TEQ (ND=DL/2; EMPC=0)	0.131	8.79	5.55	9.30	4.99	3.72	4.03
WHO 2005 TEF TEQ (ND=DL/2; EMPC=EMPC)	0.131	9.10	5.59	9.31	6.96	3.91	4.03
WHO 2005 TEF TEQ (ND=DL; EMPC=EMPC)	0.262	9.10	5.59	9.31	6.96	3.91	4.03
Checkcode	4116	4424	0519	0811	1092	4823	1661

() = DL
[] = EMPC

Reviewer
Date



P1376 - Totals

Project ID: 080207-02

Sample Summary Part 2 (dry weight)



Method 1613

Analyte	0_6875_MB0 01 pg/g	BW-01-SS- 090602 pg/g	BW-03-SS- 090602 pg/g	BW-07-SS- 090602 pg/g	BW-09-SS- 090602 pg/g	BW-11-SS- 090602 pg/g	BW-53-SS- 090602 pg/g
Totals							
TCDDs	0	14.4	11.7	13.5	48.6	19.8	10.6
PeCDDs	0	17.8	12.6	13.6	44.5	19.2	9.52
HxCDDs	0	112	66.8	75.7	83.8	57.2	53.5
HpCDDs	0	559	300	552	225	272	218
OCDD	0	2380	1160	2810	686	731	734
TCDFs	0	15.1	13.3	9.57	42.4	11.7	8.97
PeCDFs	0	11.6	13.6	12	22.4	6.3	5.97
HxCDFs	0	64.6	36.2	52.8	39.3	19.2	25.7
HpCDFs	0	148	89.6	124	52.5	37.9	51.6
OCDF	0	118	64.8	121	33.6	33.3	35.6
Total PCDD/Fs (ND=0; EMPC=0)	0.00	3,440	1,770	3,790	1,280	1,210	1,150
Total PCDD/Fs (ND=0; EMPC=EMPC)	0.00	3,450	1,780	3,790	1,290	1,220	1,160
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	2.24	3,450	1,780	3,790	1,290	1,220	1,160
Total 2378s (ND=0; EMPC=0)	0.00	2,840	1,410	3,310	869	882	899
Total 2378s (ND=0.5; EMPC=0)	1.12	2,840	1,410	3,310	869	882	899
Total 2378s (ND=1; EMPC=0)	2.24	2,840	1,410	3,310	869	882	899
Total 2378s (ND=0; EMPC=1)	0.00	2,840	1,410	3,310	871	882	899
Total 2378s (ND=0.5; EMPC=1)	1.12	2,840	1,410	3,310	871	882	899
Total 2378s (ND=1; EMPC=1)	2.24	2,840	1,410	3,310	871	882	899
Checkcode	4116	4424	0519	0811	1092	4823	1661

Total 2378s = Sum of 17 2378-substituted PCDD/PCDF congeners (SARA 313)

() = DL
[] = EMPC


Reviewer
Date

P1376 - Others

Project ID: 080207-02

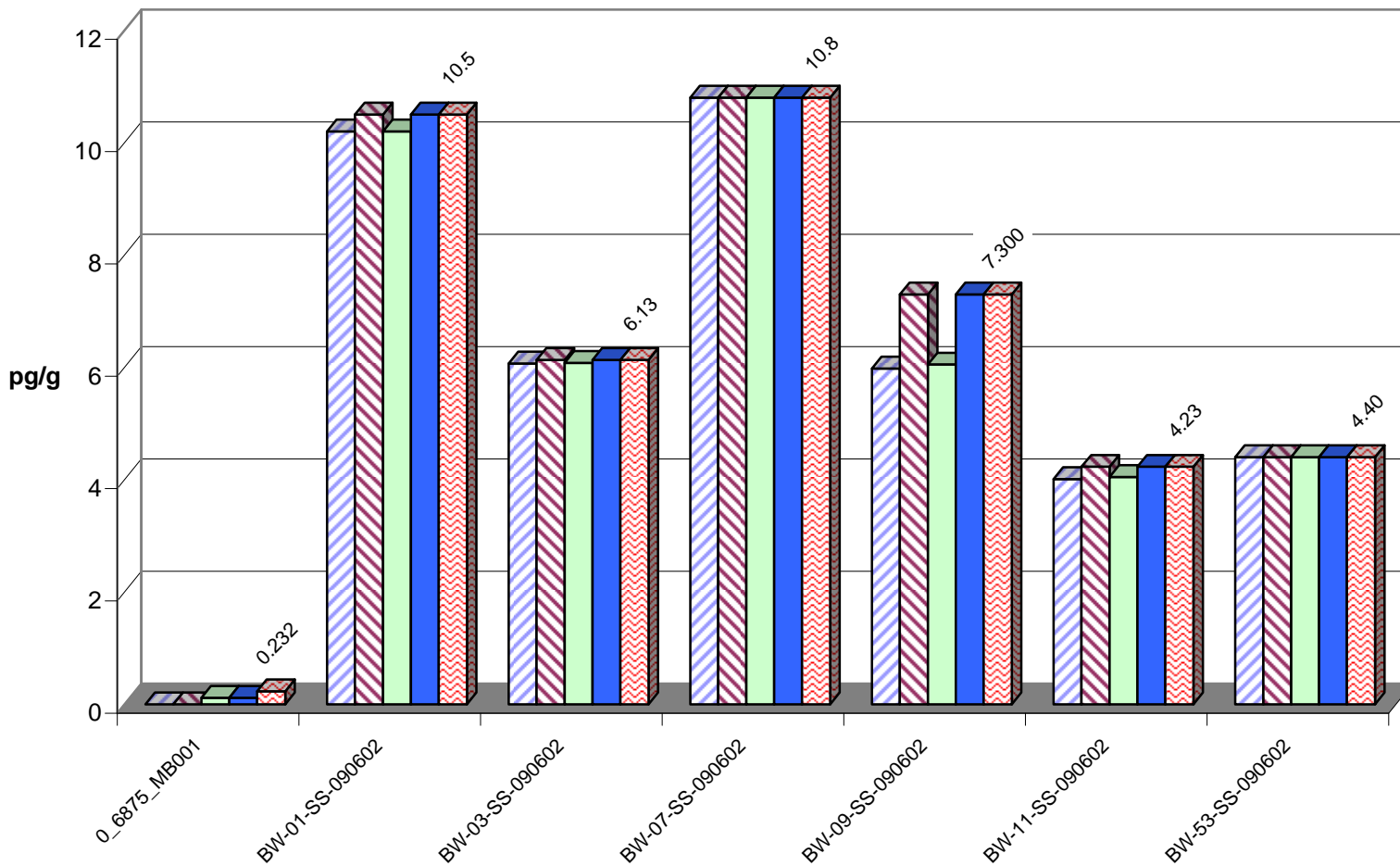
Analyte	0_6875_MB0	BW-01-SS-	BW-03-SS-	BW-07-SS-	BW-09-SS-	BW-11-SS-	BW-53-SS-
	01	090602	090602	090602	090602	090602	090602
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
Other PCDD/Fs (ND=0, EMPC=0)							
Other TCDD	0	14.4	11.4	13.2	48.6	19.8	10.5
Other PeCDD	0	16.6	11.5	12.1	44.5	18.4	8.84
Other HxCDD	0	88.9	53.3	53.7	70.1	47.9	42.3
Other HpCDD	0	295	170	251	127	182	124
Other TCDF	0	13.6	12	8.75	38.9	10.5	7.95
Other PeCDF	0	9.23	12.5	11	18.5	4.97	4.74
Other HxCDF	0	58.2	32.1	46.5	30.3	16.3	22.4
Other HpCDF	0	101	60.2	80.6	31.1	24.9	33.3
Other PCDD/Fs (ND=0, EMPC=EMPC)							
Other TCDD	0	15.9	12.3	14	49.5	22.6	11.6
Other PeCDD	0	17.4	12.6	12.1	44.5	20.8	10.2
Other HxCDD	0	88.9	54.4	55.2	70.1	47.9	43.1
Other HpCDD	0	295	170	251	127	182	124
Other TCDF	0	15.7	13.4	10.1	39.8	12.1	10.2
Other PeCDF	0	18.3	13	11.7	24.6	7.97	7.76
Other HxCDF	0	59.2	32.8	46.5	30.7	16.6	22.9
Other HpCDF	0	101	61	81.4	31.1	24.9	33.8
Checkcode	4116	4424	0519	0811	1092	4823	1661

() = DL
[] = EMPC

Reviewer
Date 

ITEF-TEQ
Project ID: 080207-02
P1376

- ND=0; EMPC=0
- ▨ ND=0; EMPC=EMPC
- ▨ ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC

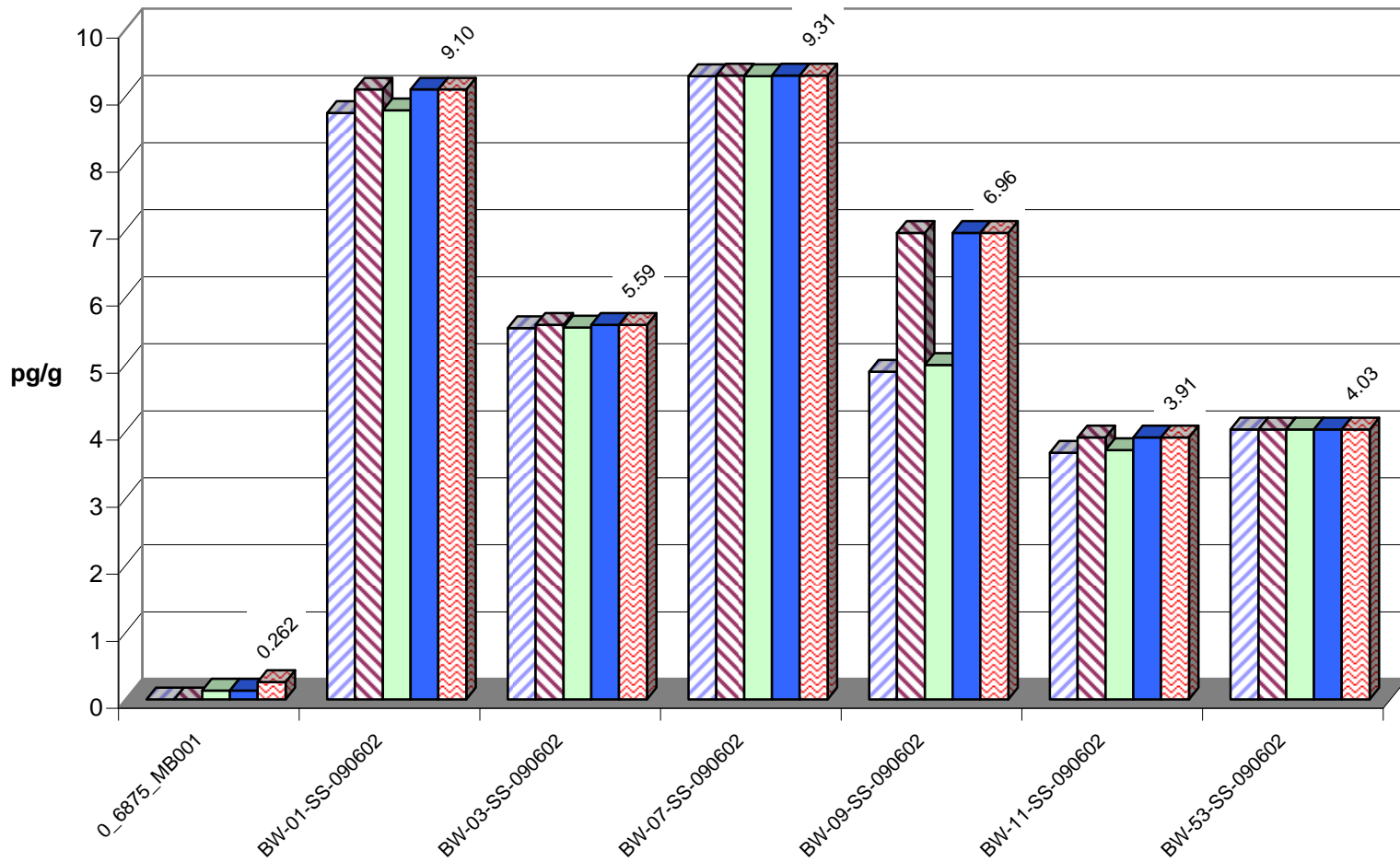


WHO 2005 TEF-TEQ

Project ID: 080207-02

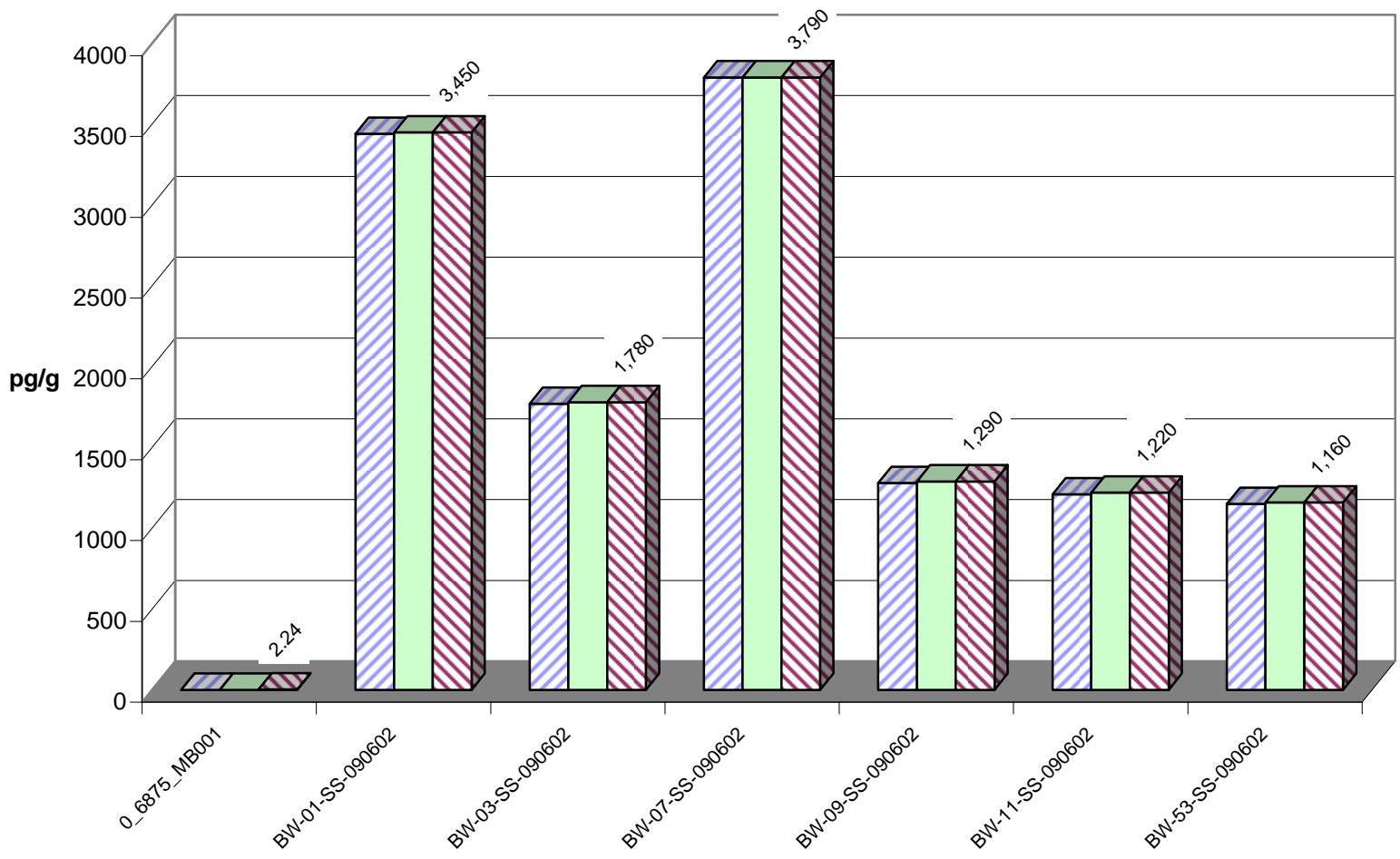
P1376

- ND=0; EMPC=0
- ▨ ND=0; EMPC=EMPC
- ▨ ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC

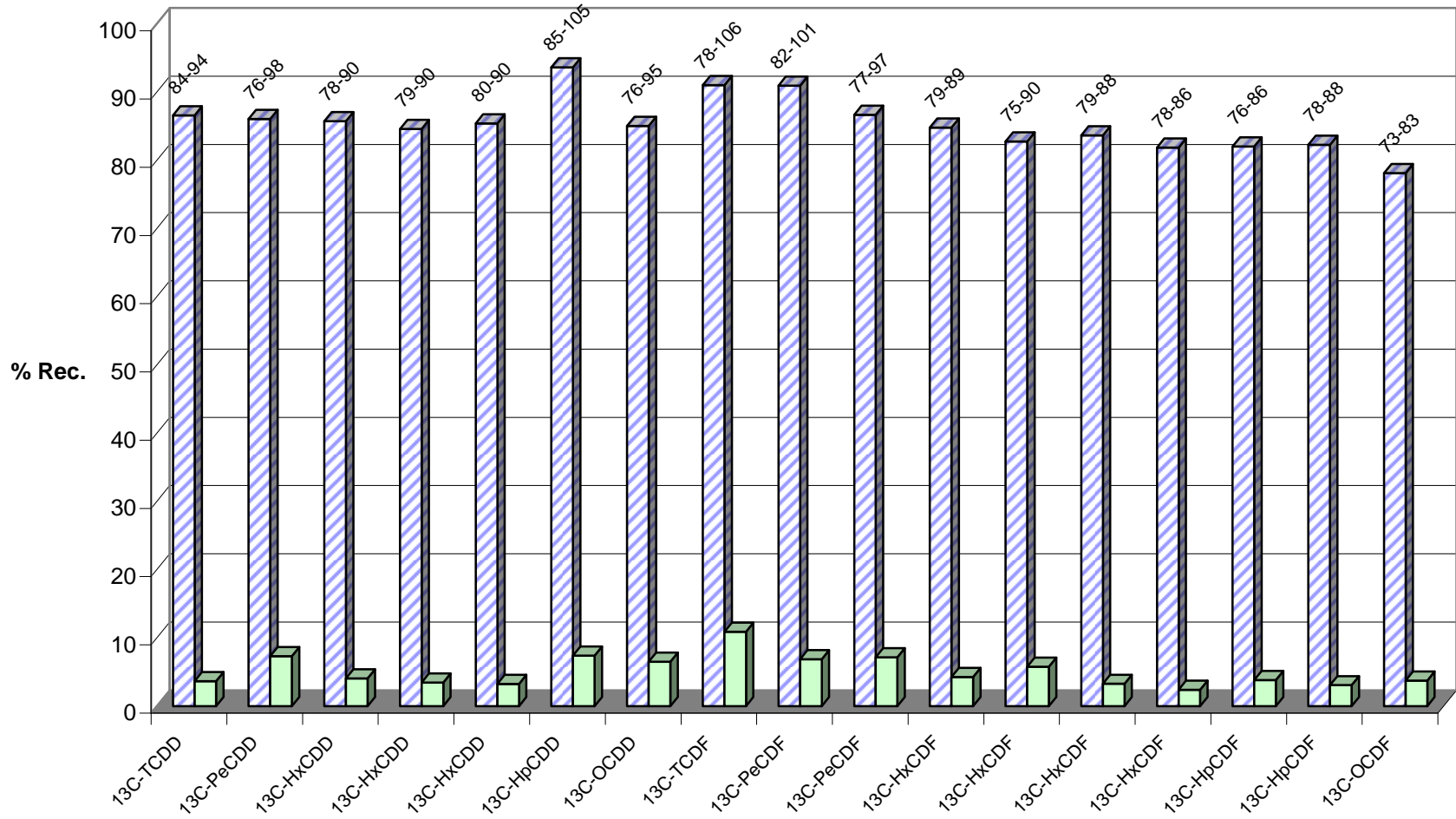
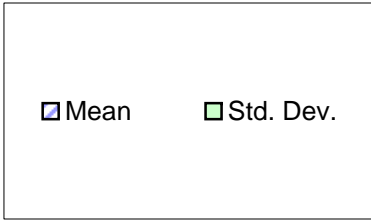


Totals
Project ID: 080207-02
P1376

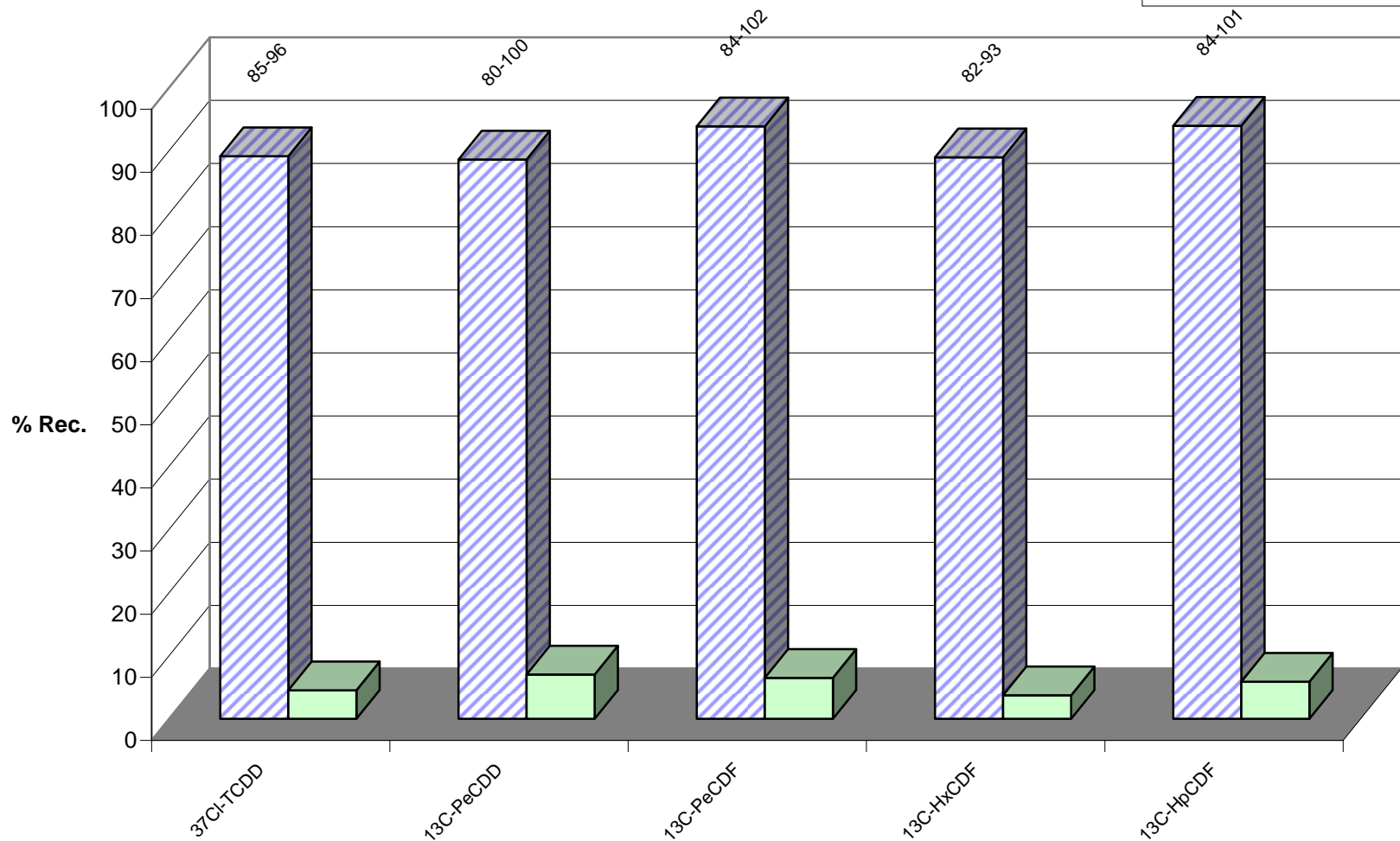
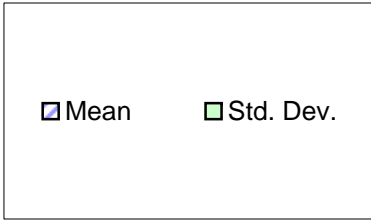
- Total PCDD/Fs (ND=0; EMPC=0)
- Total PCDD/Fs (ND=0; EMPC=EMPC)
- Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)

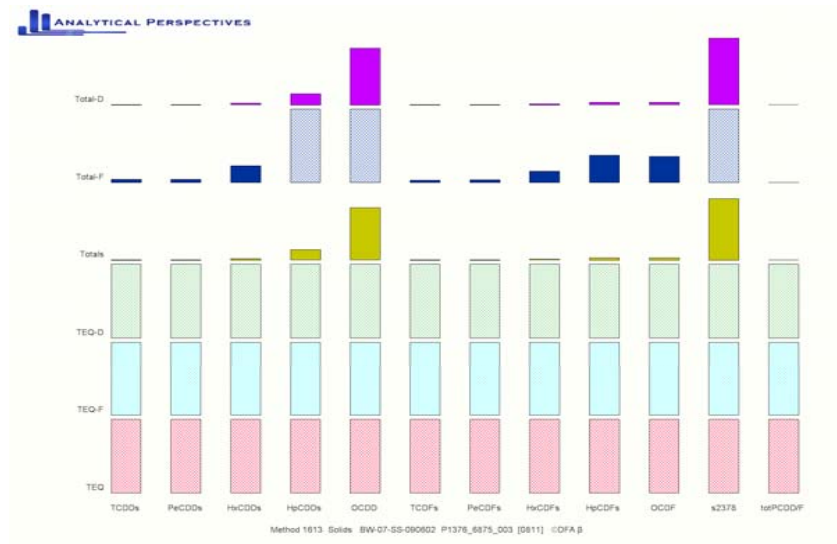
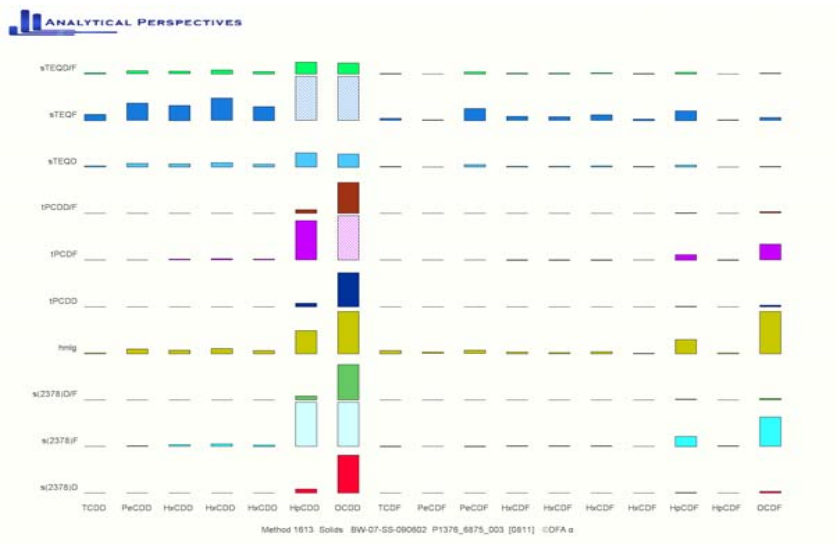
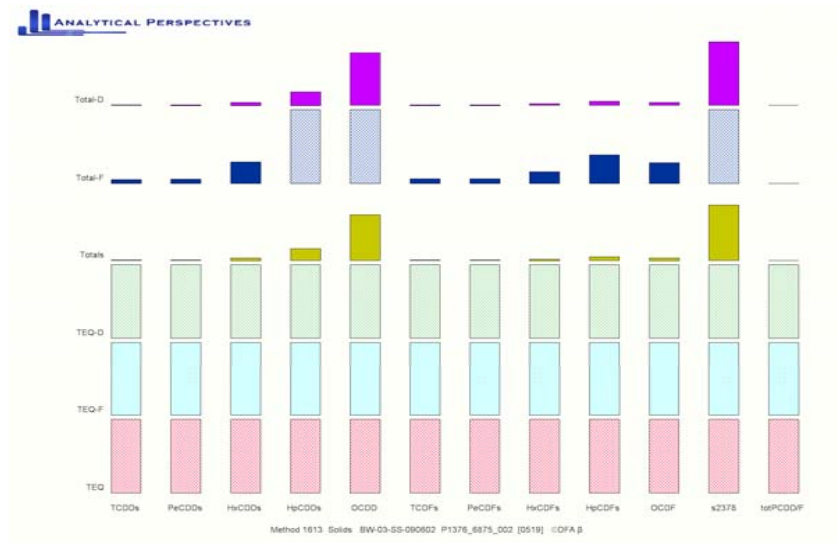


Mean Recoveries of Extraction Standards (N=7)
Project ID: 080207-02
P1376



Mean Recoveries of Clean-Up Standards (N=7)
Project ID: 080207-02
P1376





Sample ID: 0_6875_MB001

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	n/a
Project ID:	080207-02	Weight/Volume:	10.00 g	Sample ID:	MB1_6875_DF_SDS	Date Extracted:	09/Jun/2009
Date Collected:	n/a	% Solids:	n/a	QC Batch No.:	6875	Date Analyzed:	14/Jun/2009
		Split:	-	Dilution:	-	Time Analyzed:	11:35:23

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0537			13C-2,3,7,8-TCDD	83.8	
1,2,3,7,8-PeCDD	ND	0.103			13C-1,2,3,7,8-PeCDD	86.6	
1,2,3,4,7,8-HxCDD	ND	0.102			13C-1,2,3,4,7,8-HxCDD	88.3	
1,2,3,6,7,8-HxCDD	ND	0.11			13C-1,2,3,6,7,8-HxCDD	86	
1,2,3,7,8,9-HxCDD	ND	0.118			13C-1,2,3,7,8,9-HxCDD	85.7	
1,2,3,4,6,7,8-HpCDD	ND	0.154			13C-1,2,3,4,6,7,8-HpCDD	84.8	
OCDD	ND	0.452			13C-OCDD	76.2	
2,3,7,8-TCDF	ND	0.0877			13C-2,3,7,8-TCDF	83	
1,2,3,7,8-PeCDF	ND	0.0971			13C-1,2,3,7,8-PeCDF	96.6	
2,3,4,7,8-PeCDF	ND	0.0908			13C-2,3,4,7,8-PeCDF	93.2	
1,2,3,4,7,8-HxCDF	ND	0.0663			13C-1,2,3,4,7,8-HxCDF	85.9	
1,2,3,6,7,8-HxCDF	ND	0.0618			13C-1,2,3,6,7,8-HxCDF	87.4	
2,3,4,6,7,8-HxCDF	ND	0.0702			13C-2,3,4,6,7,8-HxCDF	84.3	
1,2,3,7,8,9-HxCDF	ND	0.0954			13C-1,2,3,7,8,9-HxCDF	82.3	
1,2,3,4,6,7,8-HpCDF	ND	0.103			13C-1,2,3,4,6,7,8-HpCDF	78.1	
1,2,3,4,7,8,9-HpCDF	ND	0.165			13C-1,2,3,4,7,8,9-HpCDF	78.5	
OCDF	ND	0.31			13C-OCDF	72.7	
Totals						CS Recoveries	
TCDDs	ND	0.0537			37Cl-2,3,7,8-TCDD	84.7	
PeCDDs	ND	0.103			13C-1,2,3,4,7-PeCDD	94.6	
HxCDDs	ND	0.11			13C-1,2,3,4,6-PeCDF	98.7	
HpCDDs	ND	0.154			13C-1,2,3,4,6,9-HxCDF	88.9	
					13C-1,2,3,4,6,8,9-HpCDF	84.1	
TCDFs	ND	0.0877					
PeCDFs	ND	0.0939				AS Recoveries	
HxCDFs	ND	0.0721			13C-1,3,6,8-TCDD	72.6	
HpCDFs	ND	0.13			13C-1,3,6,8-TCDF	99.9	
Total PCDD/Fs	0		0				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	0.116		0.116				
TEQ: ND=DL	0.232		0.232				



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Checkcode: 4116

AP D/F 2009 Rev. J

Reviewer
 Date

Sample ID: BW-01-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04/Jun/2009
Project ID:	080207-02	Weight/Volume:	10.03 g	Sample ID:	P1376_6875_001	Date Extracted:	09/Jun/2009
Date Collected:	02/Jun/2009	% Solids:	44.0 %	QC Batch No.:	6875	Date Analyzed:	14/Jun/2009
		Split:	-	Dilution:	-	Time Analyzed:	12:25:00
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=1.05]	0.293	J	13C-2,3,7,8-TCDD	85.2	
1,2,3,7,8-PeCDD	1.27			J	13C-1,2,3,7,8-PeCDD	87.3	
1,2,3,4,7,8-HxCDD	2.24			J	13C-1,2,3,4,7,8-HxCDD	86.8	
1,2,3,6,7,8-HxCDD	15				13C-1,2,3,6,7,8-HxCDD	84.8	
1,2,3,7,8,9-HxCDD	5.94				13C-1,2,3,7,8,9-HxCDD	85	
1,2,3,4,6,7,8-HpCDD	264				13C-1,2,3,4,6,7,8-HpCDD	101	
OCDD	2,380				13C-OCDD	90.9	
2,3,7,8-TCDF	1.48				13C-2,3,7,8-TCDF	78.5	
1,2,3,7,8-PeCDF	0.8			J	13C-1,2,3,7,8-PeCDF	92.7	
2,3,4,7,8-PeCDF	1.61			J	13C-2,3,4,7,8-PeCDF	89.9	
1,2,3,4,7,8-HxCDF	1.97			J	13C-1,2,3,4,7,8-HxCDF	87.8	
1,2,3,6,7,8-HxCDF	1.81			J	13C-1,2,3,6,7,8-HxCDF	86.6	
2,3,4,6,7,8-HxCDF	2.65				13C-2,3,4,6,7,8-HxCDF	84.6	
1,2,3,7,8,9-HxCDF	EMPC		0.569	J	13C-1,2,3,7,8,9-HxCDF	82.2	
1,2,3,4,6,7,8-HpCDF	44.6				13C-1,2,3,4,6,7,8-HpCDF	85.1	
1,2,3,4,7,8,9-HpCDF	2.72				13C-1,2,3,4,7,8,9-HpCDF	84.6	
OCDF	118				13C-OCDF	80.1	
Totals						CS Recoveries	
TCDDs	14.4		16.2		37Cl-2,3,7,8-TCDD	86.8	
PeCDDs	17.8		18.6		13C-1,2,3,4,7-PeCDD	91.5	
HxCDDs	112				13C-1,2,3,4,6-PeCDF	96.2	
HpCDDs	559				13C-1,2,3,4,6,9-HxCDF	91.2	
					13C-1,2,3,4,6,8,9-HpCDF	101	
TCDFs	15.1		17.2				
PeCDFs	11.6		20.7				
HxCDFs	64.6		66.2				
HpCDFs	148						
						AS Recoveries	
					13C-1,3,6,8-TCDD	71.5	
					13C-1,3,6,8-TCDF	96	
Total PCDD/Fs	3,440		3,450				
ITEF TEQs							
TEQ: ND=0	10.2		10.5				
TEQ: ND=DL/2	10.2		10.5				
TEQ: ND=DL	10.3		10.5				



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AP D/F 2009 Rev. J

Reviewer
 Date



Sample ID: BW-03-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04/Jun/2009
Project ID:	080207-02	Weight/Volume:	10.26 g	Sample ID:	P1376_6875_002	Date Extracted:	09/Jun/2009
Date Collected:	02/Jun/2009	% Solids:	42.0 %	QC Batch No.:	6875	Date Analyzed:	14/Jun/2009
		Split:	-	Dilution:	-	Time Analyzed:	13:14:38

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.312	[Ra=0.782]		J	13C-2,3,7,8-TCDD	89.3	
1,2,3,7,8-PeCDD	1.07			J	13C-1,2,3,7,8-PeCDD	91.8	
1,2,3,4,7,8-HxCDD	1.49			J	13C-1,2,3,4,7,8-HxCDD	78.3	
1,2,3,6,7,8-HxCDD	8.2				13C-1,2,3,6,7,8-HxCDD	78.8	
1,2,3,7,8,9-HxCDD	3.78				13C-1,2,3,7,8,9-HxCDD	79.7	
1,2,3,4,6,7,8-HpCDD	130				13C-1,2,3,4,6,7,8-HpCDD	94.7	
OCDD	1,160				13C-OCDD	81.4	
2,3,7,8-TCDF	1.22				13C-2,3,7,8-TCDF	78.5	
1,2,3,7,8-PeCDF	EMPC		0.474	J	13C-1,2,3,7,8-PeCDF	92.3	
2,3,4,7,8-PeCDF	1.05			J	13C-2,3,4,7,8-PeCDF	86.3	
1,2,3,4,7,8-HxCDF	1.26			J	13C-1,2,3,4,7,8-HxCDF	79.4	
1,2,3,6,7,8-HxCDF	1.09			J	13C-1,2,3,6,7,8-HxCDF	74.6	
2,3,4,6,7,8-HxCDF	1.76			J	13C-2,3,4,6,7,8-HxCDF	78.6	
1,2,3,7,8,9-HxCDF	EMPC		0.336	J	13C-1,2,3,7,8,9-HxCDF	78.4	
1,2,3,4,6,7,8-HpCDF	27.9				13C-1,2,3,4,6,7,8-HpCDF	76.3	
1,2,3,4,7,8,9-HpCDF	1.43			J	13C-1,2,3,4,7,8,9-HpCDF	80.5	
OCDF	64.8				13C-OCDF	74.3	
Totals						CS Recoveries	
TCDDs	11.7		12.6		37Cl-2,3,7,8-TCDD	94.4	
PeCDDs	12.6		13.7		13C-1,2,3,4,7-PeCDD	86.9	
HxCDDs	66.8		67.9		13C-1,2,3,4,6-PeCDF	98	
HpCDDs	300				13C-1,2,3,4,6,9-HxCDF	86.7	
					13C-1,2,3,4,6,8,9-HpCDF	97.4	
TCDFs	13.3		14.7				
PeCDFs	13.6		14.5			AS Recoveries	
HxCDFs	36.2		37.3		13C-1,3,6,8-TCDD	67.9	
HpCDFs	89.6		90.3		13C-1,3,6,8-TCDF	93	
Total PCDD/Fs	1,770		1,780				
ITEF TEQs							
TEQ: ND=0	6.07		6.13				
TEQ: ND=DL/2	6.08		6.13				
TEQ: ND=DL	6.09		6.13				



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Sample ID: BW-07-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04/Jun/2009
Project ID:	080207-02	Weight/Volume:	10.41 g	Sample ID:	P1376_6875_003	Date Extracted:	09/Jun/2009
Date Collected:	02/Jun/2009	% Solids:	63.7 %	QC Batch No.:	6875	Date Analyzed:	14/Jun/2009
		Split:	-	Dilution:	-	Time Analyzed:	14:04:11
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.264	[Ra=0.677]		J	13C-2,3,7,8-TCDD	93.8	
1,2,3,7,8-PeCDD	1.48			J	13C-1,2,3,7,8-PeCDD	98.2	
1,2,3,4,7,8-HxCDD	6.48				13C-1,2,3,4,7,8-HxCDD	89.4	
1,2,3,6,7,8-HxCDD	9.59				13C-1,2,3,6,7,8-HxCDD	90.1	
1,2,3,7,8,9-HxCDD	6				13C-1,2,3,7,8,9-HxCDD	90	
1,2,3,4,6,7,8-HpCDD	301				13C-1,2,3,4,6,7,8-HpCDD	105	
OCDD	2,810				13C-OCDD	95.3	
2,3,7,8-TCDF	0.825				13C-2,3,7,8-TCDF	106	
1,2,3,7,8-PeCDF	EMPC		0.423	J	13C-1,2,3,7,8-PeCDF	101	
2,3,4,7,8-PeCDF	1.03			J	13C-2,3,4,7,8-PeCDF	96.9	
1,2,3,4,7,8-HxCDF	1.75			J	13C-1,2,3,4,7,8-HxCDF	89.3	
1,2,3,6,7,8-HxCDF	1.53			J	13C-1,2,3,6,7,8-HxCDF	90.4	
2,3,4,6,7,8-HxCDF	2.35			J	13C-2,3,4,6,7,8-HxCDF	87.5	
1,2,3,7,8,9-HxCDF	0.635			J	13C-1,2,3,7,8,9-HxCDF	86.1	
1,2,3,4,6,7,8-HpCDF	41.3				13C-1,2,3,4,6,7,8-HpCDF	86.2	
1,2,3,4,7,8,9-HpCDF	2.4			J	13C-1,2,3,4,7,8,9-HpCDF	87.8	
OCDF	121				13C-OCDF	83.4	
Totals						CS Recoveries	
TCDDs	13.5		14.3		37Cl-2,3,7,8-TCDD	96.1	
PeCDDs	13.6				13C-1,2,3,4,7-PeCDD	99.5	
HxCDDs	75.7		77.3		13C-1,2,3,4,6-PeCDF	102	
HpCDDs	552				13C-1,2,3,4,6,9-HxCDF	92.7	
					13C-1,2,3,4,6,8,9-HpCDF	99.6	
TCDFs	9.57		10.9				
PeCDFs	12		13.1				
HxCDFs	52.8						
HpCDFs	124		125				
						AS Recoveries	
13C-1,3,6,8-TCDD						90.8	
13C-1,3,6,8-TCDF						106	
Total PCDD/Fs	3,790		3,790				
ITEF TEQs							
TEQ: ND=0	10.8		10.8				
TEQ: ND=DL/2	10.8		10.8				
TEQ: ND=DL	10.8		10.8				



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Sample ID: BW-09-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04/Jun/2009
Project ID:	080207-02	Weight/Volume:	10.36 g	Sample ID:	P1376_6875_004	Date Extracted:	09/Jun/2009
Date Collected:	02/Jun/2009	% Solids:	52.6 %	QC Batch No.:	6875	Date Analyzed:	14/Jun/2009
		Split:	-	Dilution:	-	Time Analyzed:	14:53:42

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=1.03]	0.57		13C-2,3,7,8-TCDD	84.2	
1,2,3,7,8-PeCDD	EMPC		1.49	J	13C-1,2,3,7,8-PeCDD	81.2	
1,2,3,4,7,8-HxCDD	2.46				13C-1,2,3,4,7,8-HxCDD	84.2	
1,2,3,6,7,8-HxCDD	7.36				13C-1,2,3,6,7,8-HxCDD	83.1	
1,2,3,7,8,9-HxCDD	3.88				13C-1,2,3,7,8,9-HxCDD	85.3	
1,2,3,4,6,7,8-HpCDD	98				13C-1,2,3,4,6,7,8-HpCDD	94.3	
OCDD	686				13C-OCDD	86.9	
2,3,7,8-TCDF	3.45				13C-2,3,7,8-TCDF	97.3	
1,2,3,7,8-PeCDF	1.16			J	13C-1,2,3,7,8-PeCDF	89.1	
2,3,4,7,8-PeCDF	2.8				13C-2,3,4,7,8-PeCDF	83.7	
1,2,3,4,7,8-HxCDF	3.11				13C-1,2,3,4,7,8-HxCDF	80.3	
1,2,3,6,7,8-HxCDF	2.18			J	13C-1,2,3,6,7,8-HxCDF	79.2	
2,3,4,6,7,8-HxCDF	2.86				13C-2,3,4,6,7,8-HxCDF	81.7	
1,2,3,7,8,9-HxCDF	0.785			J	13C-1,2,3,7,8,9-HxCDF	80.4	
1,2,3,4,6,7,8-HpCDF	19.9				13C-1,2,3,4,6,7,8-HpCDF	82.1	
1,2,3,4,7,8,9-HpCDF	1.51			J	13C-1,2,3,4,7,8,9-HpCDF	82.7	
OCDF	33.6				13C-OCDF	79.9	
Totals						CS Recoveries	
TCDDs	48.6		50		37Cl-2,3,7,8-TCDD	85	
PeCDDs	44.5		46		13C-1,2,3,4,7-PeCDD	85.9	
HxCDDs	83.8				13C-1,2,3,4,6-PeCDF	90	
HpCDDs	225				13C-1,2,3,4,6,9-HxCDF	82	
					13C-1,2,3,4,6,8,9-HpCDF	92.3	
TCDFs	42.4		43.2				
PeCDFs	22.4		28.5			AS Recoveries	
HxCDFs	39.3		39.6		13C-1,3,6,8-TCDD	81.3	
HpCDFs	52.5				13C-1,3,6,8-TCDF	101	
Total PCDD/Fs	1,280		1,290				
ITEF TEQs							
TEQ: ND=0	5.98		7.3				
TEQ: ND=DL/2	6.05		7.3				
TEQ: ND=DL	6.12		7.3				



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Checkcode: 1092

AP D/F 2009 Rev. J

Reviewer
 Date



Sample ID: BW-11-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04/Jun/2009
Project ID:	080207-02	Weight/Volume:	10.08 g	Sample ID:	P1376_6875_005	Date Extracted:	09/Jun/2009
Date Collected:	02/Jun/2009	% Solids:	42.7 %	QC Batch No.:	6875	Date Analyzed:	14/Jun/2009
		Split:	-	Dilution:	-	Time Analyzed:	15:43:15
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=0.926]	0.223	J	13C-2,3,7,8-TCDD	85.5	
1,2,3,7,8-PeCDD	0.801			J	13C-1,2,3,7,8-PeCDD	76.5	
1,2,3,4,7,8-HxCDD	1.38			J	13C-1,2,3,4,7,8-HxCDD	89.7	
1,2,3,6,7,8-HxCDD	5.08				13C-1,2,3,6,7,8-HxCDD	86.2	
1,2,3,7,8,9-HxCDD	2.82				13C-1,2,3,7,8,9-HxCDD	88.2	
1,2,3,4,6,7,8-HpCDD	89.8				13C-1,2,3,4,6,7,8-HpCDD	87.5	
OCDD	731				13C-OCDD	80.7	
2,3,7,8-TCDF	1.16				13C-2,3,7,8-TCDF	96.9	
1,2,3,7,8-PeCDF	0.402			J	13C-1,2,3,7,8-PeCDF	82.1	
2,3,4,7,8-PeCDF	0.928			J	13C-2,3,4,7,8-PeCDF	77.2	
1,2,3,4,7,8-HxCDF	0.821			J	13C-1,2,3,4,7,8-HxCDF	89.3	
1,2,3,6,7,8-HxCDF	0.693			J	13C-1,2,3,6,7,8-HxCDF	83.7	
2,3,4,6,7,8-HxCDF	1.12			J	13C-2,3,4,6,7,8-HxCDF	87.5	
1,2,3,7,8,9-HxCDF	0.275			J	13C-1,2,3,7,8,9-HxCDF	83.2	
1,2,3,4,6,7,8-HpCDF	12.2				13C-1,2,3,4,6,7,8-HpCDF	85.5	
1,2,3,4,7,8,9-HpCDF	0.763			J	13C-1,2,3,4,7,8,9-HpCDF	81.2	
OCDF	33.3				13C-OCDF	76.7	
Totals						CS Recoveries	
TCDDs	19.8		22.8		37Cl-2,3,7,8-TCDD	87.2	
PeCDDs	19.2		21.6		13C-1,2,3,4,7-PeCDD	79.9	
HxCDDs	57.2				13C-1,2,3,4,6-PeCDF	84.5	
HpCDDs	272				13C-1,2,3,4,6,9-HxCDF	92.3	
					13C-1,2,3,4,6,8,9-HpCDF	93.1	
TCDFs	11.7		13.3				
PeCDFs	6.3		9.3				
HxCDFs	19.2		19.5				
HpCDFs	37.9						
						AS Recoveries	
					13C-1,3,6,8-TCDD	78.1	
					13C-1,3,6,8-TCDF	94	
Total PCDD/Fs	1,210		1,220				
ITEF TEQs							
TEQ: ND=0	4.01		4.23				
TEQ: ND=DL/2	4.05		4.23				
TEQ: ND=DL	4.08		4.23				



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Checkcode: 4823

AP D/F 2009 Rev. J

Reviewer
Date



Sample ID: BW-53-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04/Jun/2009
Project ID:	080207-02	Weight/Volume:	10.31 g	Sample ID:	P1376_6875_006	Date Extracted:	09/Jun/2009
Date Collected:	02/Jun/2009	% Solids:	46.2 %	QC Batch No.:	6875	Date Analyzed:	14/Jun/2009
		Split:	-	Dilution:	-	Time Analyzed:	16:32:48
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.183	[Ra=0.678]		J	13C-2,3,7,8-TCDD	84.5	
1,2,3,7,8-PeCDD	0.684			J	13C-1,2,3,7,8-PeCDD	81	
1,2,3,4,7,8-HxCDD	1.56			J	13C-1,2,3,4,7,8-HxCDD	83.4	
1,2,3,6,7,8-HxCDD	6.76				13C-1,2,3,6,7,8-HxCDD	83.3	
1,2,3,7,8,9-HxCDD	2.86				13C-1,2,3,7,8,9-HxCDD	84	
1,2,3,4,6,7,8-HpCDD	93.5				13C-1,2,3,4,6,7,8-HpCDD	88.3	
OCDD	734				13C-OCDD	84.1	
2,3,7,8-TCDF	1.03				13C-2,3,7,8-TCDF	97.1	
1,2,3,7,8-PeCDF	0.408			J	13C-1,2,3,7,8-PeCDF	82.9	
2,3,4,7,8-PeCDF	0.824			J	13C-2,3,4,7,8-PeCDF	79.5	
1,2,3,4,7,8-HxCDF	0.86			J	13C-1,2,3,4,7,8-HxCDF	81.7	
1,2,3,6,7,8-HxCDF	0.778			J	13C-1,2,3,6,7,8-HxCDF	77.5	
2,3,4,6,7,8-HxCDF	1.31			J	13C-2,3,4,6,7,8-HxCDF	81.5	
1,2,3,7,8,9-HxCDF	0.357			J	13C-1,2,3,7,8,9-HxCDF	80.7	
1,2,3,4,6,7,8-HpCDF	17.3				13C-1,2,3,4,6,7,8-HpCDF	80.9	
1,2,3,4,7,8,9-HpCDF	0.952			J	13C-1,2,3,4,7,8,9-HpCDF	80.7	
OCDF	35.6				13C-OCDF	79.9	
Totals						CS Recoveries	
TCDDs	10.6		11.8		37Cl-2,3,7,8-TCDD	89.8	
PeCDDs	9.52		10.9		13C-1,2,3,4,7-PeCDD	81.9	
HxCDDs	53.5		54.2		13C-1,2,3,4,6-PeCDF	87.6	
HpCDDs	218				13C-1,2,3,4,6,9-HxCDF	89	
					13C-1,2,3,4,6,8,9-HpCDF	90.2	
TCDFs	8.97		11.3				
PeCDFs	5.97		8.99				
HxCDFs	25.7		26.2				
HpCDFs	51.6		52				
Total PCDD/Fs	1,150		1,160				
ITEF TEQs							
TEQ: ND=0	4.4		4.4				
TEQ: ND=DL/2	4.4		4.4				
TEQ: ND=DL	4.4		4.4				



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P1376 - TEQ
Project ID: 080207-02

Sample Summary
Part 1 (dry weight)



Method 1613

Analyte	0_6875_MB0 01 pg/g	BW-01-SS- 090602 pg/g	BW-03-SS- 090602 pg/g	BW-07-SS- 090602 pg/g	BW-09-SS- 090602 pg/g	BW-11-SS- 090602 pg/g	BW-53-SS- 090602 pg/g
2,3,7,8-TCDD	(0.0537)	[0.293]	0.312	0.264	[0.57]	[0.223]	0.183
1,2,3,7,8-PeCDD	(0.103)	1.27	1.07	1.48	[1.49]	0.801	0.684
1,2,3,4,7,8-HxCDD	(0.102)	2.24	1.49	6.48	2.46	1.38	1.56
1,2,3,6,7,8-HxCDD	(0.11)	15	8.2	9.59	7.36	5.08	6.76
1,2,3,7,8,9-HxCDD	(0.118)	5.94	3.78	6	3.88	2.82	2.86
1,2,3,4,6,7,8-HpCDD	(0.154)	264	130	301	98	89.8	93.5
OCDD	(0.452)	2380	1160	2810	686	731	734
2,3,7,8-TCDF	(0.0877)	1.48	1.22	0.825	3.45	1.16	1.03
1,2,3,7,8-PeCDF	(0.0971)	0.8	[0.474]	[0.423]	1.16	0.402	0.408
2,3,4,7,8-PeCDF	(0.0908)	1.61	1.05	1.03	2.8	0.928	0.824
1,2,3,4,7,8-HxCDF	(0.0663)	1.97	1.26	1.75	3.11	0.821	0.86
1,2,3,6,7,8-HxCDF	(0.0618)	1.81	1.09	1.53	2.18	0.693	0.778
2,3,4,6,7,8-HxCDF	(0.0702)	2.65	1.76	2.35	2.86	1.12	1.31
1,2,3,7,8,9-HxCDF	(0.0954)	[0.569]	[0.336]	0.635	0.785	0.275	0.357
1,2,3,4,6,7,8-HpCDF	(0.103)	44.6	27.9	41.3	19.9	12.2	17.3
1,2,3,4,7,8,9-HpCDF	(0.165)	2.72	1.43	2.4	1.51	0.763	0.952
OCDF	(0.31)	118	64.8	121	33.6	33.3	35.6
ITEF TEQ (ND=0; EMPC=0)	0.00	10.2	6.07	10.8	5.98	4.01	4.40
ITEF TEQ (ND=0; EMPC=EMPC)	0.00	10.5	6.13	10.8	7.300	4.23	4.40
ITEF TEQ (ND=DL/2; EMPC=0)	0.116	10.2	6.08	10.8	6.05	4.05	4.40
ITEF TEQ (ND=DL/2; EMPC=EMPC)	0.116	10.5	6.13	10.8	7.300	4.23	4.40
ITEF TEQ (ND=DL; EMPC=EMPC)	0.232	10.5	6.13	10.8	7.300	4.23	4.40
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓

() = DL
 [] = EMPC

Reviewer
 Date
 19 Feb 09

P1376 - WHO 2005 TEF-TEQ

Project ID: 080207-02

Analyte	0_6875_MB0	BW-01-SS-	BW-03-SS-	BW-07-SS-	BW-09-SS-	BW-11-SS-	BW-53-SS-
	01	090602	090602	090602	090602	090602	090602
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2,3,7,8-TCDD	(0.0537)	[0.293]	0.312	0.264	[0.57]	[0.223]	0.183
1,2,3,7,8-PeCDD	(0.103)	1.27	1.07	1.48	[1.49]	0.801	0.684
1,2,3,4,7,8-HxCDD	(0.102)	2.24	1.49	6.48	2.46	1.38	1.56
1,2,3,6,7,8-HxCDD	(0.11)	15	8.2	9.59	7.36	5.08	6.76
1,2,3,7,8,9-HxCDD	(0.118)	5.94	3.78	6	3.88	2.82	2.86
1,2,3,4,6,7,8-HpCDD	(0.154)	264	130	301	98	89.8	93.5
OCDD	(0.452)	2380	1160	2810	686	731	734
2,3,7,8-TCDF	(0.0877)	1.48	1.22	0.825	3.45	1.16	1.03
1,2,3,7,8-PeCDF	(0.0971)	0.8	[0.474]	[0.423]	1.16	0.402	0.408
2,3,4,7,8-PeCDF	(0.0908)	1.61	1.05	1.03	2.8	0.928	0.824
1,2,3,4,7,8-HxCDF	(0.0663)	1.97	1.26	1.75	3.11	0.821	0.86
1,2,3,6,7,8-HxCDF	(0.0618)	1.81	1.09	1.53	2.18	0.693	0.778
2,3,4,6,7,8-HxCDF	(0.0702)	2.65	1.76	2.35	2.86	1.12	1.31
1,2,3,7,8,9-HxCDF	(0.0954)	[0.569]	[0.336]	0.635	0.785	0.275	0.357
1,2,3,4,6,7,8-HpCDF	(0.103)	44.6	27.9	41.3	19.9	12.2	17.3
1,2,3,4,7,8,9-HpCDF	(0.165)	2.72	1.43	2.4	1.51	0.763	0.952
OCDF	(0.31)	118	64.8	121	33.6	33.3	35.6
WHO 2005 TEF TEQ (ND=0; EMPC=0)	0.00	8.75	5.54	9.30	4.89	3.68	4.03
WHO 2005 TEF TEQ (ND=0; EMPC=EMPC)	0.00	9.10	5.59	9.31	6.96	3.91	4.03
WHO 2005 TEF TEQ (ND=DL/2; EMPC=0)	0.131	8.79	5.55	9.30	4.99	3.72	4.03
WHO 2005 TEF TEQ (ND=DL/2; EMPC=EMPC)	0.131	9.10	5.59	9.31	6.96	3.91	4.03
WHO 2005 TEF TEQ (ND=DL; EMPC=EMPC)	0.262	9.10	5.59	9.31	6.96	3.91	4.03
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓



Method 1613

() = DL
[] = EMPC

Reviewer _____
Date _____

[Handwritten Signature]
19/09/09

P1376 - Totals

Project ID: 080207-02

Sample Summary Part 2 (dry weight)



Method 1613

Analyte	0_6875_MB0 01 pg/g	BW-01-SS- 090602 pg/g	BW-03-SS- 090602 pg/g	BW-07-SS- 090602 pg/g	BW-09-SS- 090602 pg/g	BW-11-SS- 090602 pg/g	BW-53-SS- 090602 pg/g
Totals							
TCDDs	0	14.4	11.7	13.5	48.6	19.8	10.6
PeCDDs	0	17.8	12.6	13.6	44.5	19.2	9.52
HxCDDs	0	112	66.8	75.7	83.8	57.2	53.5
HpCDDs	0	559	300	552	225	272	218
OCDD	0	2380	1160	2810	686	731	734
TCDFs	0	15.1	13.3	9.57	42.4	11.7	8.97
PeCDFs	0	11.6	13.6	12	22.4	6.3	5.97
HxCDFs	0	64.6	36.2	52.8	39.3	19.2	25.7
HpCDFs	0	148	89.6	124	52.5	37.9	51.6
OCDF	0	118	64.8	121	33.6	33.3	35.6
Total PCDD/Fs (ND=0; EMPC=0)	0.00	3,440	1,770	3,790	1,280	1,210	1,150
Total PCDD/Fs (ND=0; EMPC=EMPC)	0.00	3,450	1,780	3,790	1,290	1,220	1,160
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	2.24	3,450	1,780	3,790	1,290	1,220	1,160
Total 2378s (ND=0; EMPC=0)	0.00	2,840	1,410	3,310	869	882	899
Total 2378s (ND=0.5; EMPC=0)	1.12	2,840	1,410	3,310	869	882	899
Total 2378s (ND=1; EMPC=0)	2.24	2,840	1,410	3,310	869	882	899
Total 2378s (ND=0; EMPC=1)	0.00	2,840	1,410	3,310	871	882	899
Total 2378s (ND=0.5; EMPC=1)	1.12	2,840	1,410	3,310	871	882	899
Total 2378s (ND=1; EMPC=1)	2.24	2,840	1,410	3,310	871	882	899
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓

Total 2378s = Sum of 17 2378-substituted PCDD/PCDF congeners (SARA 313)


() = DL
[] = EMPC

Reviewer _____
Date _____

Handwritten signature and date: 10/19/08

P1376 - Others

Project ID: 080207-02

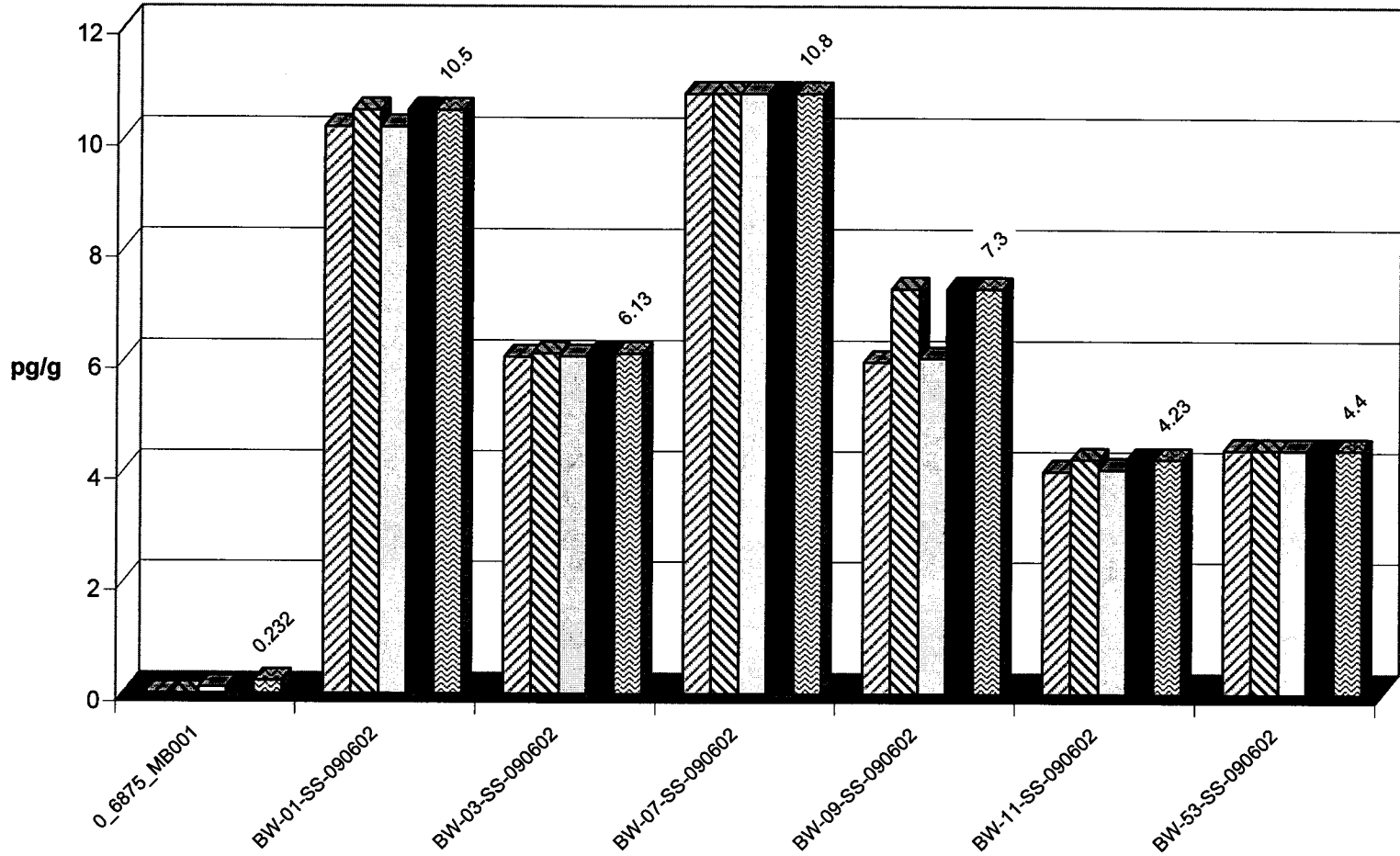
Sample Summary		 ANALYTICAL PERSPECTIVES					Method 1613	
Part 3 (dry weight)								
Analyte	0_6875_MB0 01	BW-01-SS- 090602	BW-03-SS- 090602	BW-07-SS- 090602	BW-09-SS- 090602	BW-11-SS- 090602	BW-53-SS- 090602	
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
Other PCDD/Fs (ND=0, EMPC=0)								
Other TCDD	0	14.4	11.4	13.2	48.6	19.8	10.5	
Other PeCDD	0	16.6	11.5	12.1	44.5	18.4	8.84	
Other HxCDD	0	88.9	53.3	53.7	70.1	47.9	42.3	
Other HpCDD	0	295	170	251	127	182	124	
Other TCDF	0	13.6	12	8.75	38.9	10.5	7.95	
Other PeCDF	0	9.23	12.5	11	18.5	4.97	4.74	
Other HxCDF	0	58.2	32.1	46.5	30.3	16.3	22.4	
Other HpCDF	0	101	60.2	80.6	31.1	24.9	33.3	
Other PCDD/Fs (ND=0, EMPC=EMPC)								
Other TCDD	0	15.9	12.3	14	49.5	22.6	11.6	
Other PeCDD	0	17.4	12.6	12.1	44.5	20.8	10.2	
Other HxCDD	0	88.9	54.4	55.2	70.1	47.9	43.1	
Other HpCDD	0	295	170	251	127	182	124	
Other TCDF	0	15.7	13.4	10.1	39.8	12.1	10.2	
Other PeCDF	0	18.3	13	11.7	24.6	7.97	7.76	
Other HxCDF	0	59.2	32.8	46.5	30.7	16.6	22.9	
Other HpCDF	0	101	61	81.4	31.1	24.9	33.8	
Checkcode	4116 ✓	4424 ✓	0519 ✓	0811 ✓	1092 ✓	4823 ✓	1661 ✓	

() = DL
[] = EMPC

Reviewer _____
Date _____
MS 19 Jan 09

ITEF-TEQ
Project ID: 080207-02
P1376

- ▨ ND=0; EMPC=0
- ▩ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC

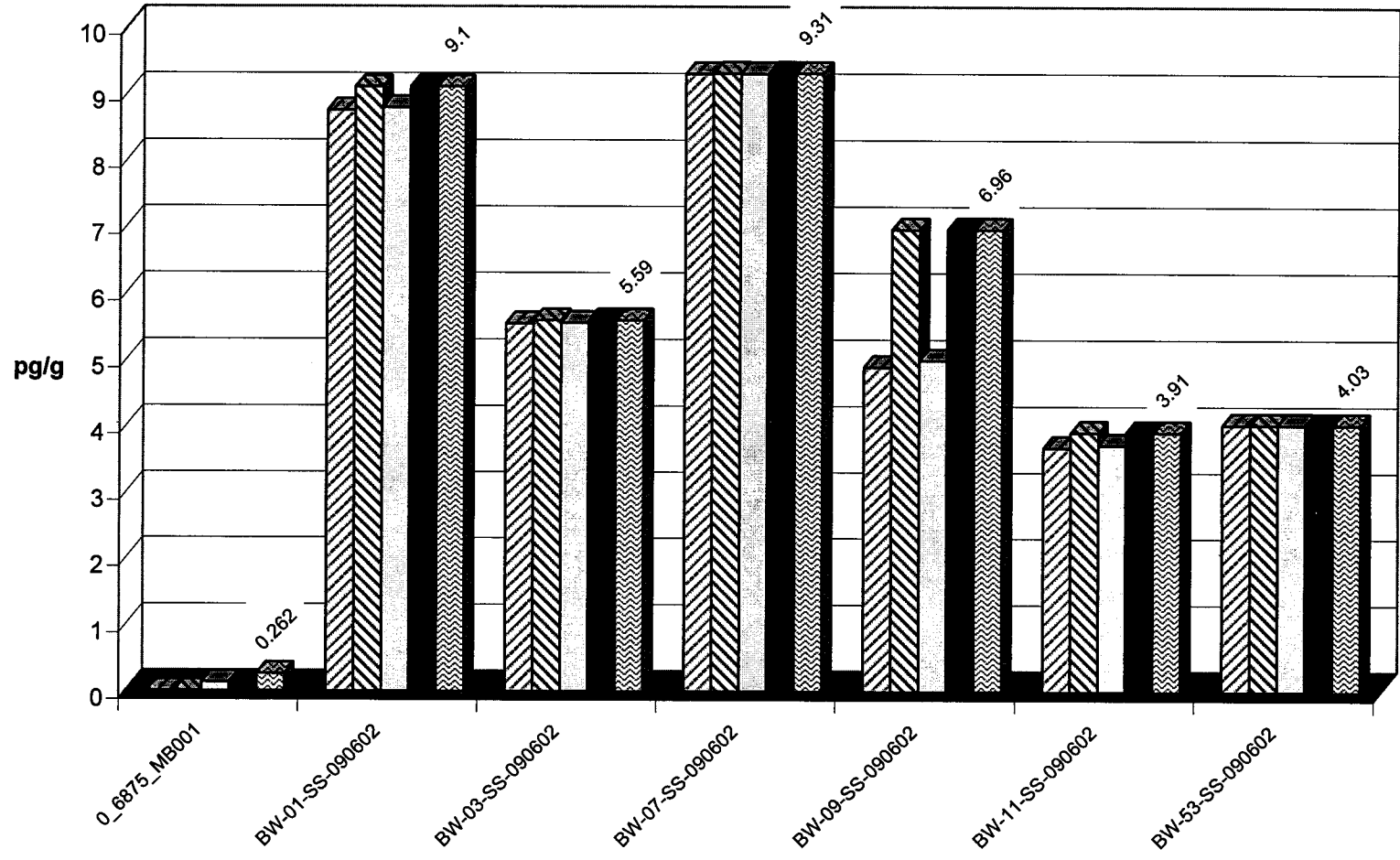


WHO 2005 TEF-TEQ

Project ID: 080207-02

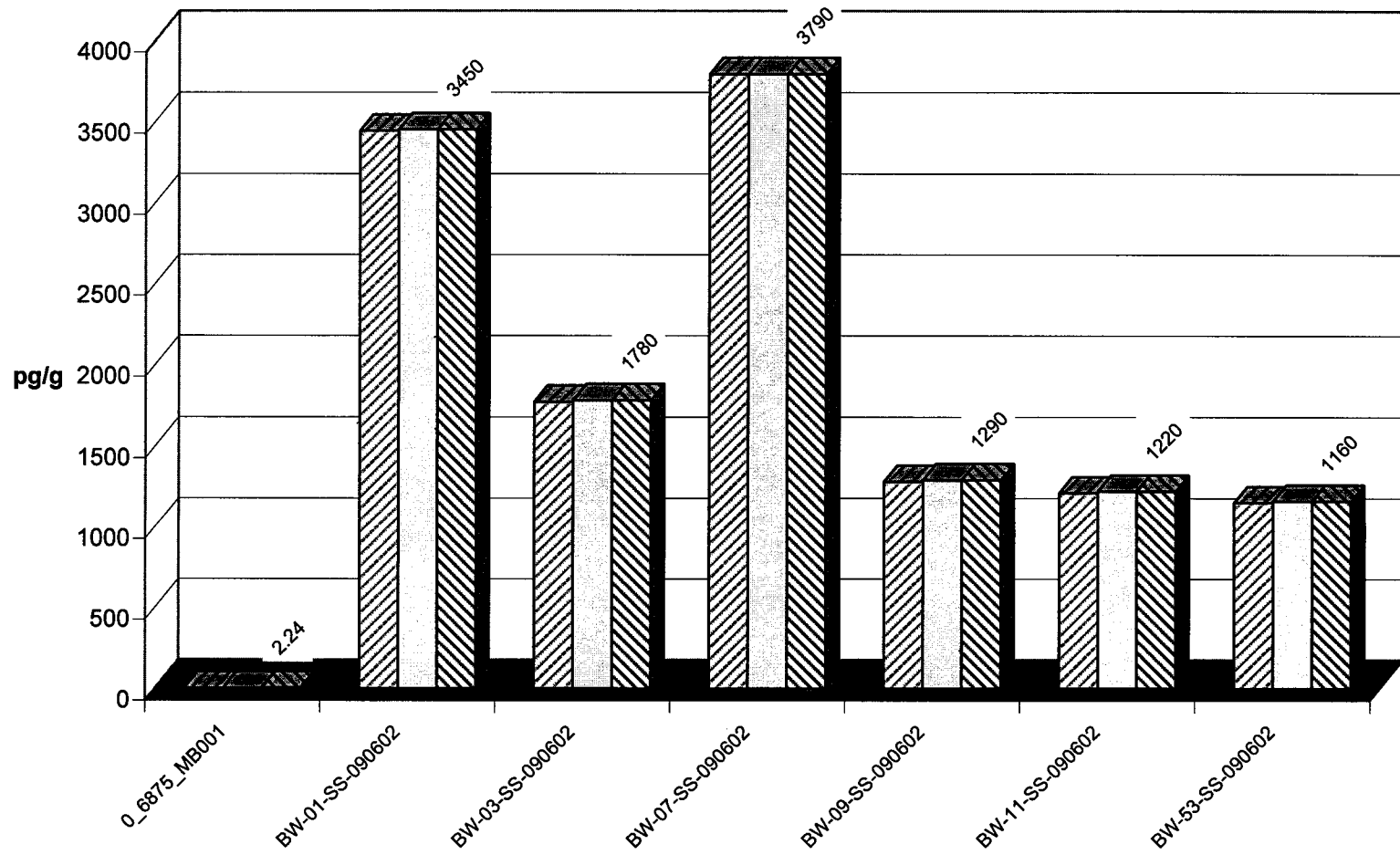
P1376

- ▨ ND=0; EMPC=0
- ▨ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC



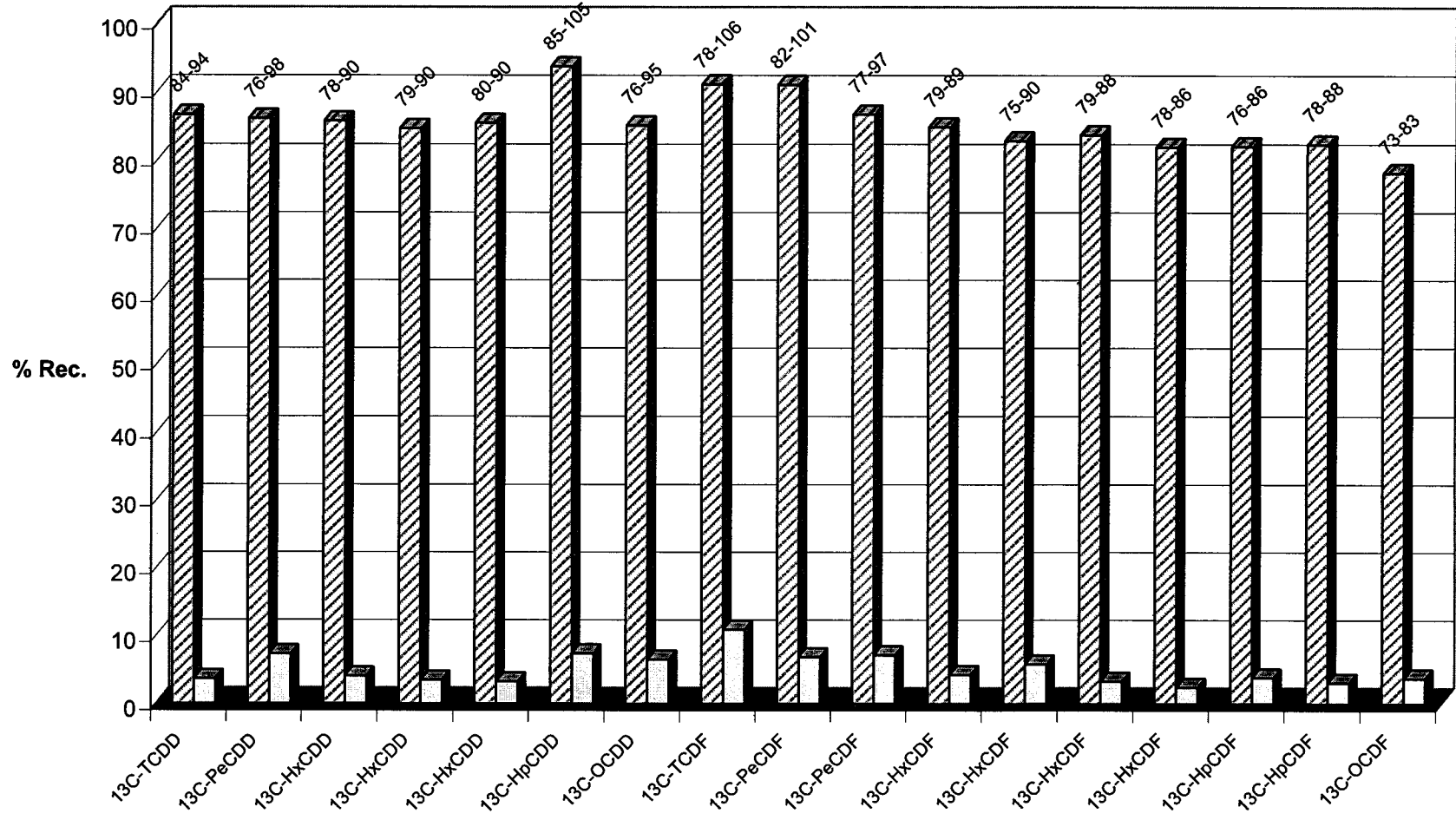
Totals
Project ID: 080207-02
P1376

- ▨ Total PCDD/Fs (ND=0; EMPC=0)
- Total PCDD/Fs (ND=0; EMPC=EMPC)
- ▩ Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)



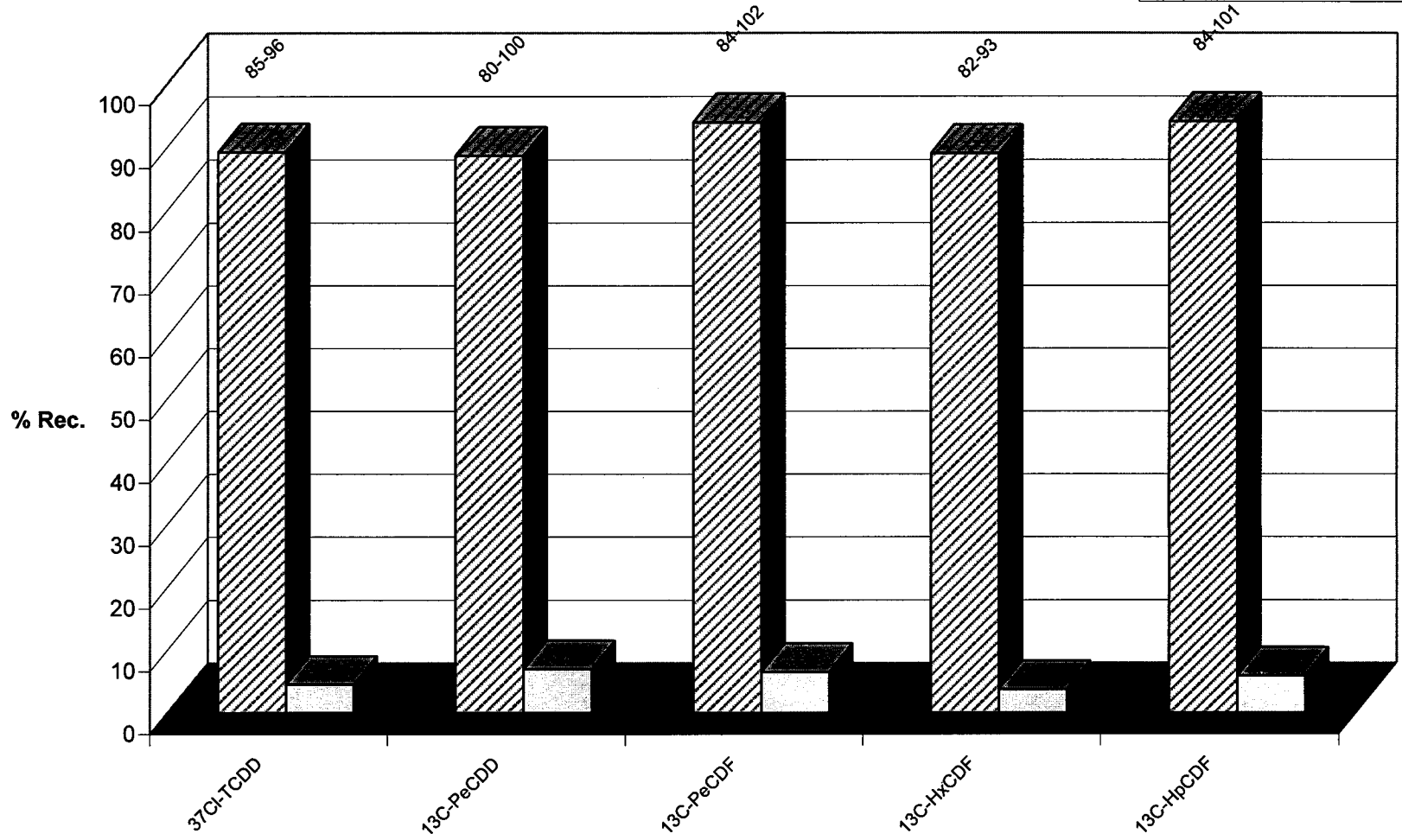
Mean Recoveries of Extraction Standards (N=7)
Project ID: 080207-02
P1376

Mean
 Std. Dev.



Mean Recoveries of Clean-Up Standards (N=7)
Project ID: 080207-02
P1376

▨ Mean □ Std. Dev.



Sample ID: 0_6875_MB001

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	n/a
Project ID:	080207-02	Weight/Volume:	10.00 g	Sample ID:	MB1_6875_DF_SDS	Date Extracted:	09 Jun 2009
Date Collected:	n/a	% Solids:	n/a	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	11:35:23
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0537			13C-2,3,7,8-TCDD	83.8	
1,2,3,7,8-PeCDD	ND	0.103			13C-1,2,3,7,8-PeCDD	86.6	
1,2,3,4,7,8-HxCDD	ND	0.102			13C-1,2,3,4,7,8-HxCDD	88.3	
1,2,3,6,7,8-HxCDD	ND	0.11			13C-1,2,3,6,7,8-HxCDD	86	
1,2,3,7,8,9-HxCDD	ND	0.118			13C-1,2,3,7,8,9-HxCDD	85.7	
1,2,3,4,6,7,8-HpCDD	ND	0.154			13C-1,2,3,4,6,7,8-HpCDD	84.8	
OCDD	ND	0.452			13C-OCDD	76.2	
2,3,7,8-TCDF	ND	0.0877			13C-2,3,7,8-TCDF	83	
1,2,3,7,8-PeCDF	ND	0.0971			13C-1,2,3,7,8-PeCDF	96.6	
2,3,4,7,8-PeCDF	ND	0.0908			13C-2,3,4,7,8-PeCDF	93.2	
1,2,3,4,7,8-HxCDF	ND	0.0663			13C-1,2,3,4,7,8-HxCDF	85.9	
1,2,3,6,7,8-HxCDF	ND	0.0618			13C-1,2,3,6,7,8-HxCDF	87.4	
2,3,4,6,7,8-HxCDF	ND	0.0702			13C-2,3,4,6,7,8-HxCDF	84.3	
1,2,3,7,8,9-HxCDF	ND	0.0954			13C-1,2,3,7,8,9-HxCDF	82.3	
1,2,3,4,6,7,8-HpCDF	ND	0.103			13C-1,2,3,4,6,7,8-HpCDF	78.1	
1,2,3,4,7,8,9-HpCDF	ND	0.165			13C-1,2,3,4,7,8,9-HpCDF	78.5	
OCDF	ND	0.31			13C-OCDF	72.7	
Totals						CS Recoveries	
TCDDs	ND	0.0537			37Cl-2,3,7,8-TCDD	84.7	
PeCDDs	ND	0.103			13C-1,2,3,4,7-PeCDD	94.6	
HxCDDs	ND	0.11			13C-1,2,3,4,6-PeCDF	98.7	
HpCDDs	ND	0.154			13C-1,2,3,4,6,9-HxCDF	88.9	
					13C-1,2,3,4,6,8,9-HpCDF	84.1	
TCDFs	ND	0.0877					
PeCDFs	ND	0.0939					
HxCDFs	ND	0.0721			13C-1,3,6,8-TCDD	72.6	
HpCDFs	ND	0.13			13C-1,3,6,8-TCDF	99.9	
Total PCDD/Fs	0		0				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	0.116		0.116				
TEQ: ND=DL	0.232		0.232				

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 Date: _____

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Sample ID: 0_6875_MB001

TEQ Summary

Method 1613

Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	MB1_6875_DF_SDS
Client Project ID:	080207-02	Weight/Volume:	10.00 g	QC Batch No.:	6875
Date Collected:	n/a	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	n/a	Dilution:	-	Date Analyzed:	14 Jun 2009 11:35
Lab Project No:	P1376	Units	pg/g	% Solids:	n/a

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	(0.0537)		0.0537	(0.0537)	(0.0537)	(0.0537)
1,2,3,7,8-PeCDD	(0.103)		0.103	(0.0515)	(0.103)	(0.103)
1,2,3,4,7,8-HxCDD	(0.102)		0.102	(0.0102)	(0.0102)	(0.0102)
1,2,3,6,7,8-HxCDD	(0.11)		0.11	(0.011)	(0.011)	(0.011)
1,2,3,7,8,9-HxCDD	(0.118)		0.118	(0.0118)	(0.0118)	(0.0118)
1,2,3,4,6,7,8-HpCDD	(0.154)		0.154	(0.00154)	(0.00154)	(0.00154)
OCDD	(0.452)		0.452	(0.000452)	(0.0000452)	(0.000136)
2,3,7,8-TCDF	(0.0877)		0.0877	(0.00877)	(0.00877)	(0.00877)
1,2,3,7,8-PeCDF	(0.0971)		0.0971	(0.00486)	(0.00486)	(0.00291)
2,3,4,7,8-PeCDF	(0.0908)		0.0908	(0.0454)	(0.0454)	(0.0272)
1,2,3,4,7,8-HxCDF	(0.0663)		0.0663	(0.00663)	(0.00663)	(0.00663)
1,2,3,6,7,8-HxCDF	(0.0618)		0.0618	(0.00618)	(0.00618)	(0.00618)
2,3,4,6,7,8-HxCDF	(0.0702)		0.0702	(0.00702)	(0.00702)	(0.00702)
1,2,3,7,8,9-HxCDF	(0.0954)		0.0954	(0.00954)	(0.00954)	(0.00954)
1,2,3,4,6,7,8-HpCDF	(0.103)		0.103	(0.00103)	(0.00103)	(0.00103)
1,2,3,4,7,8,9-HpCDF	(0.165)		0.165	(0.00165)	(0.00165)	(0.00165)
OCDF	(0.31)		0.31	(0.00031)	(0.000031)	(0.000093)

 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com	TEQ Summaries			
	EMPC = 0, ND = 0 EMPC = 0, ND = DL / 2 EMPC = 0, ND = DL EMPC = 0, < J-level = 0 EMPC = EMPC, ND = 0 EMPC = EMPC, ND = DL / 2 EMPC = EMPC, ND = DL EMPC = EMPC, < J-level = 0	0 0.116 0.232 0 0 0.116 0.232 0	0 0.141 0.282 0 0 0.141 0.282 0	0 0.131 0.262 0 0 0.131 0.262 0

Sample ID: BW-01-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.03 g	Sample ID:	P1376_6875_001	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	44.0 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	12:25:00
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=1.05]	0.293	J	13C-2,3,7,8-TCDD	85.2	
1,2,3,7,8-PeCDD	1.27			J	13C-1,2,3,7,8-PeCDD	87.3	
1,2,3,4,7,8-HxCDD	2.24			J	13C-1,2,3,4,7,8-HxCDD	86.8	
1,2,3,6,7,8-HxCDD	15				13C-1,2,3,6,7,8-HxCDD	84.8	
1,2,3,7,8,9-HxCDD	5.94				13C-1,2,3,7,8,9-HxCDD	85	
1,2,3,4,6,7,8-HpCDD	264				13C-1,2,3,4,6,7,8-HpCDD	101	
OCDD	2,380				13C-OCDD	90.9	
2,3,7,8-TCDF	1.48				13C-2,3,7,8-TCDF	78.5	
1,2,3,7,8-PeCDF	0.8			J	13C-1,2,3,7,8-PeCDF	92.7	
2,3,4,7,8-PeCDF	1.61			J	13C-2,3,4,7,8-PeCDF	89.9	
1,2,3,4,7,8-HxCDF	1.97			J	13C-1,2,3,4,7,8-HxCDF	87.8	
1,2,3,6,7,8-HxCDF	1.81			J	13C-1,2,3,6,7,8-HxCDF	86.6	
2,3,4,6,7,8-HxCDF	2.65				13C-2,3,4,6,7,8-HxCDF	84.6	
1,2,3,7,8,9-HxCDF	EMPC		0.569	J	13C-1,2,3,7,8,9-HxCDF	82.2	
1,2,3,4,6,7,8-HpCDF	44.6				13C-1,2,3,4,6,7,8-HpCDF	85.1	
1,2,3,4,7,8,9-HpCDF	2.72				13C-1,2,3,4,7,8,9-HpCDF	84.6	
OCDF	118				13C-OCDF	80.1	
Totals						CS Recoveries	
TCDDs	14.4		16.2		37Cl-2,3,7,8-TCDD	86.8	
PeCDDs	17.8		18.6		13C-1,2,3,4,7-PeCDD	91.5	
HxCDDs	112				13C-1,2,3,4,6-PeCDF	96.2	
HpCDDs	559				13C-1,2,3,4,6,9-HxCDF	91.2	
					13C-1,2,3,4,6,8,9-HpCDF	101	
TCDFs	15.1		17.2				
PeCDFs	11.6		20.7				
HxCDFs	64.6		66.2		13C-1,3,6,8-TCDD	71.5	
HpCDFs	148				13C-1,3,6,8-TCDF	96	
Total PCDD/Fs	3,440		3,450				
ITEF TEQs							
TEQ: ND=0	10.2		10.5				
TEQ: ND=DL/2	10.2		10.5				
TEQ: ND=DL	10.3		10.5				

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Date: _____

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Sample ID: BW-01-SS-090602

TEQ Summary

Method 1613

Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	P1376_6875_001
Client Project ID:	080207-02	Weight/Volume:	10.03 g	QC Batch No.:	6875
Date Collected:	02 Jun 2009	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	04 Jun 2009	Dilution:	-	Date Analyzed:	14 Jun 2009 12:25
Lab Project No:	P1376	Units	pg/g	% Solids:	44.0 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	0.293	J	0.0615	0.293	0.293	0.293
1,2,3,7,8-PeCDD	1.27	J	0.132	0.634	1.27	1.27
1,2,3,4,7,8-HxCDD	2.24	J	0.428	0.224	0.224	0.224
1,2,3,6,7,8-HxCDD	15		0.473	1.5	1.5	1.5
1,2,3,7,8,9-HxCDD	5.94		0.489	0.594	0.594	0.594
1,2,3,4,6,7,8-HpCDD	264		2.3	2.64	2.64	2.64
OCDD	2380		5.42	2.38	0.238	0.713
2,3,7,8-TCDF	1.48		0.0573	0.148	0.148	0.148
1,2,3,7,8-PeCDF	0.8	J	0.15	0.04	0.04	0.024
2,3,4,7,8-PeCDF	1.61	J	0.134	0.806	0.806	0.484
1,2,3,4,7,8-HxCDF	1.97	J	0.111	0.197	0.197	0.197
1,2,3,6,7,8-HxCDF	1.81	J	0.111	0.181	0.181	0.181
2,3,4,6,7,8-HxCDF	2.65		0.118	0.265	0.265	0.265
1,2,3,7,8,9-HxCDF	[0.569]	J	0.158	[0.0569]	[0.0569]	[0.0569]
1,2,3,4,6,7,8-HpCDF	44.6		0.386	0.446	0.446	0.446
1,2,3,4,7,8,9-HpCDF	2.72		0.597	0.0272	0.0272	0.0272
OCDF	118		1.01	0.118	0.0118	0.0353

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	EMPC = 0, ND = 0			10.5	8.88	9.04
	EMPC = 0, ND = DL / 2			10.5	8.89	9.05
	EMPC = 0, ND = DL			10.5	8.9	9.06
	EMPC = 0, < J-level = 0			8.12	5.87	6.37
	EMPC = EMPC, ND = 0			10.5	8.94	9.1
	EMPC = EMPC, ND = DL / 2			10.5	8.94	9.1
	EMPC = EMPC, ND = DL			10.5	8.94	9.1
EMPC = EMPC, < J-level = 0			8.12	5.87	6.37	

Sample ID: BW-03-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data		Date Received: 04 Jun 2009	
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.26 g	Sample ID:	P1376_6875_002	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	42.0 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	13:14:38

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.312	[Ra=0.782]		J	13C-2,3,7,8-TCDD	89.3	
1,2,3,7,8-PeCDD	1.07			J	13C-1,2,3,7,8-PeCDD	91.8	
1,2,3,4,7,8-HxCDD	1.49			J	13C-1,2,3,4,7,8-HxCDD	78.3	
1,2,3,6,7,8-HxCDD	8.2				13C-1,2,3,6,7,8-HxCDD	78.8	
1,2,3,7,8,9-HxCDD	3.78				13C-1,2,3,7,8,9-HxCDD	79.7	
1,2,3,4,6,7,8-HpCDD	130				13C-1,2,3,4,6,7,8-HpCDD	94.7	
OCDD	1,160				13C-OCDD	81.4	
2,3,7,8-TCDF	1.22				13C-2,3,7,8-TCDF	78.5	
1,2,3,7,8-PeCDF	EMPC		0.474	J	13C-1,2,3,7,8-PeCDF	92.3	
2,3,4,7,8-PeCDF	1.05			J	13C-2,3,4,7,8-PeCDF	86.3	
1,2,3,4,7,8-HxCDF	1.26			J	13C-1,2,3,4,7,8-HxCDF	79.4	
1,2,3,6,7,8-HxCDF	1.09			J	13C-1,2,3,6,7,8-HxCDF	74.6	
2,3,4,6,7,8-HxCDF	1.76			J	13C-2,3,4,6,7,8-HxCDF	78.6	
1,2,3,7,8,9-HxCDF	EMPC		0.336	J	13C-1,2,3,7,8,9-HxCDF	78.4	
1,2,3,4,6,7,8-HpCDF	27.9				13C-1,2,3,4,6,7,8-HpCDF	76.3	
1,2,3,4,7,8,9-HpCDF	1.43			J	13C-1,2,3,4,7,8,9-HpCDF	80.5	
OCDF	64.8				13C-OCDF	74.3	

Totals						CS Recoveries	
TCDDs	11.7		12.6		37Cl-2,3,7,8-TCDD	94.4	
PeCDDs	12.6		13.7		13C-1,2,3,4,7-PeCDD	86.9	
HxCDDs	66.8		67.9		13C-1,2,3,4,6-PeCDF	98	
HpCDDs	300				13C-1,2,3,4,6,9-HxCDF	86.7	
					13C-1,2,3,4,6,8,9-HpCDF	97.4	
TCDFs	13.3		14.7				
PeCDFs	13.6		14.5				
HxCDFs	36.2		37.3				
HpCDFs	89.6		90.3				
Total PCDD/Fs	1,770		1,780				
						AS Recoveries	
					13C-1,3,6,8-TCDD	67.9	
					13C-1,3,6,8-TCDF	93	

ITEF TEQs			
TEQ: ND=0	6.07		6.13
TEQ: ND=DL/2	6.08		6.13
TEQ: ND=DL	6.09		6.13

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Sample ID: BW-03-SS-090602

TEQ Summary

Method 1613

Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	P1376_6875_002
Client Project ID:	080207-02	Weight/Volume:	10.26 g	QC Batch No.:	6875
Date Collected:	02 Jun 2009	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	04 Jun 2009	Dilution:	-	Date Analyzed:	14 Jun 2009 13:14
Lab Project No:	P1376	Units	pg/g	% Solids:	42.0 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.312]	J	0.114	[0.312]	[0.312]	[0.312]
1,2,3,7,8-PeCDD	1.07	J	0.128	0.537	1.07	1.07
1,2,3,4,7,8-HxCDD	1.49	J	0.305	0.149	0.149	0.149
1,2,3,6,7,8-HxCDD	8.2		0.338	0.82	0.82	0.82
1,2,3,7,8,9-HxCDD	3.78		0.34	0.378	0.378	0.378
1,2,3,4,6,7,8-HpCDD	130		1.72	1.3	1.3	1.3
OCDD	1160		5.09	1.16	0.116	0.348
2,3,7,8-TCDF	1.22		0.0811	0.122	0.122	0.122
1,2,3,7,8-PeCDF	[0.474]	J	0.102	[0.0237]	[0.0237]	[0.0142]
2,3,4,7,8-PeCDF	1.05	J	0.0982	0.524	0.524	0.314
1,2,3,4,7,8-HxCDF	1.26	J	0.112	0.126	0.126	0.126
1,2,3,6,7,8-HxCDF	1.09	J	0.109	0.109	0.109	0.109
2,3,4,6,7,8-HxCDF	1.76	J	0.111	0.176	0.176	0.176
1,2,3,7,8,9-HxCDF	[0.336]	J	0.143	[0.0336]	[0.0336]	[0.0336]
1,2,3,4,6,7,8-HpCDF	27.9		0.214	0.279	0.279	0.279
1,2,3,4,7,8,9-HpCDF	1.43	J	0.311	0.0143	0.0143	0.0143
OCDF	64.8		0.725	0.0648	0.00648	0.0194

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	EMPC = 0, ND = 0	5.76	5.19	5.23
	EMPC = 0, ND = DL / 2	5.82	5.26	5.29
	EMPC = 0, ND = DL	5.89	5.32	5.36
	EMPC = 0, < J-level = 0	4.12	3.02	3.26
	EMPC = EMPC, ND = 0	6.13	5.56	5.59
	EMPC = EMPC, ND = DL / 2	6.13	5.56	5.59
	EMPC = EMPC, ND = DL	6.13	5.56	5.59
EMPC = EMPC, < J-level = 0	4.12	3.02	3.26	

Sample ID: BW-07-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.41 g	Sample ID:	P1376_6875_003	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	63.7 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	14:04:11
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.264	[Ra=0.677]		J	13C-2,3,7,8-TCDD	93.8	
1,2,3,7,8-PeCDD	1.48			J	13C-1,2,3,7,8-PeCDD	98.2	
1,2,3,4,7,8-HxCDD	6.48				13C-1,2,3,4,7,8-HxCDD	89.4	
1,2,3,6,7,8-HxCDD	9.59				13C-1,2,3,6,7,8-HxCDD	90.1	
1,2,3,7,8,9-HxCDD	6				13C-1,2,3,7,8,9-HxCDD	90	
1,2,3,4,6,7,8-HpCDD	301				13C-1,2,3,4,6,7,8-HpCDD	105	
OCDD	2,810				13C-OCDD	95.3	
2,3,7,8-TCDF	0.825				13C-2,3,7,8-TCDF	106	
1,2,3,7,8-PeCDF	EMPC		0.423	J	13C-1,2,3,7,8-PeCDF	101	
2,3,4,7,8-PeCDF	1.03			J	13C-2,3,4,7,8-PeCDF	96.9	
1,2,3,4,7,8-HxCDF	1.75			J	13C-1,2,3,4,7,8-HxCDF	89.3	
1,2,3,6,7,8-HxCDF	1.53			J	13C-1,2,3,6,7,8-HxCDF	90.4	
2,3,4,6,7,8-HxCDF	2.35			J	13C-2,3,4,6,7,8-HxCDF	87.5	
1,2,3,7,8,9-HxCDF	0.635			J	13C-1,2,3,7,8,9-HxCDF	86.1	
1,2,3,4,6,7,8-HpCDF	41.3				13C-1,2,3,4,6,7,8-HpCDF	86.2	
1,2,3,4,7,8,9-HpCDF	2.4			J	13C-1,2,3,4,7,8,9-HpCDF	87.8	
OCDF	121				13C-OCDF	83.4	
Totals						CS Recoveries	
TCDDs	13.5		14.3		37Cl-2,3,7,8-TCDD	96.1	
PeCDDs	13.6				13C-1,2,3,4,7-PeCDD	99.5	
HxCDDs	75.7		77.3		13C-1,2,3,4,6-PeCDF	102	
HpCDDs	552				13C-1,2,3,4,6,9-HxCDF	92.7	
					13C-1,2,3,4,6,8,9-HpCDF	99.6	
TCDFs	9.57		10.9				
PeCDFs	12		13.1				
HxCDFs	52.8						
HpCDFs	124		125				
Total PCDD/Fs	3,790		3,790				
ITEF TEQs							
TEQ: ND=0	10.8		10.8				
TEQ: ND=DL/2	10.8		10.8				
TEQ: ND=DL	10.8		10.8				



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Reviewer: *[Signature]*
 Date: *[Signature]*

W/19 June 09


Sample ID: BW-07-SS-090602

TEQ Summary

Method 1613

Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	P1376_6875_003
Client Project ID:	080207-02	Weight/Volume:	10.41 g	QC Batch No.:	6875
Date Collected:	02 Jun 2009	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	04 Jun 2009	Dilution:	-	Date Analyzed:	14 Jun 2009 14:04
Lab Project No:	P1376	Units:	pg/g	% Solids:	63.7 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.264]	J	0.149	[0.264]	[0.264]	[0.264]
1,2,3,7,8-PeCDD	1.48	J	0.161	0.741	1.48	1.48
1,2,3,4,7,8-HxCDD	6.48		0.415	0.648	0.648	0.648
1,2,3,6,7,8-HxCDD	9.59		0.456	0.959	0.959	0.959
1,2,3,7,8,9-HxCDD	6		0.474	0.6	0.6	0.6
1,2,3,4,6,7,8-HpCDD	301		3.06	3.01	3.01	3.01
OCDD	2810		5.2	2.81	0.281	0.844
2,3,7,8-TCDF	0.825		0.0925	0.0825	0.0825	0.0825
1,2,3,7,8-PeCDF	[0.423]	J	0.109	[0.0212]	[0.0212]	[0.0127]
2,3,4,7,8-PeCDF	1.03	J	0.106	0.515	0.515	0.309
1,2,3,4,7,8-HxCDF	1.75	J	0.119	0.175	0.175	0.175
1,2,3,6,7,8-HxCDF	1.53	J	0.114	0.153	0.153	0.153
2,3,4,6,7,8-HxCDF	2.35	J	0.123	0.235	0.235	0.235
1,2,3,7,8,9-HxCDF	0.635	J	0.166	0.0635	0.0635	0.0635
1,2,3,4,6,7,8-HpCDF	41.3		0.254	0.413	0.413	0.413
1,2,3,4,7,8,9-HpCDF	2.4	J	0.396	0.024	0.024	0.024
OCDF	121		1.44	0.121	0.0121	0.0364


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	EMPC = 0, ND = 0			10.6	8.66	9.04
	EMPC = 0, ND = DL / 2			10.6	8.73	9.11
	EMPC = 0, ND = DL			10.7	8.81	9.19
	EMPC = 0, < J-level = 0			8.65	6.01	6.6
	EMPC = EMPC, ND = 0			10.8	8.94	9.31
	EMPC = EMPC, ND = DL / 2			10.8	8.94	9.31
	EMPC = EMPC, ND = DL			10.8	8.94	9.31
EMPC = EMPC, < J-level = 0			8.65	6.01	6.6	

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Sample ID: BW-09-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.36 g	Sample ID:	P1376_6875_004	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	52.6 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	14:53:42
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=1.03]	0.57		13C-2,3,7,8-TCDD	84.2	
1,2,3,7,8-PeCDD	EMPC		1.49	J	13C-1,2,3,7,8-PeCDD	81.2	
1,2,3,4,7,8-HxCDD	2.46				13C-1,2,3,4,7,8-HxCDD	84.2	
1,2,3,6,7,8-HxCDD	7.36				13C-1,2,3,6,7,8-HxCDD	83.1	
1,2,3,7,8,9-HxCDD	3.88				13C-1,2,3,7,8,9-HxCDD	85.3	
1,2,3,4,6,7,8-HpCDD	98				13C-1,2,3,4,6,7,8-HpCDD	94.3	
OCDD	686				13C-OCDD	86.9	
2,3,7,8-TCDF	3.45				13C-2,3,7,8-TCDF	97.3	
1,2,3,7,8-PeCDF	1.16			J	13C-1,2,3,7,8-PeCDF	89.1	
2,3,4,7,8-PeCDF	2.8				13C-2,3,4,7,8-PeCDF	83.7	
1,2,3,4,7,8-HxCDF	3.11				13C-1,2,3,4,7,8-HxCDF	80.3	
1,2,3,6,7,8-HxCDF	2.18			J	13C-1,2,3,6,7,8-HxCDF	79.2	
2,3,4,6,7,8-HxCDF	2.86				13C-2,3,4,6,7,8-HxCDF	81.7	
1,2,3,7,8,9-HxCDF	0.785			J	13C-1,2,3,7,8,9-HxCDF	80.4	
1,2,3,4,6,7,8-HpCDF	19.9				13C-1,2,3,4,6,7,8-HpCDF	82.1	
1,2,3,4,7,8,9-HpCDF	1.51			J	13C-1,2,3,4,7,8,9-HpCDF	82.7	
OCDF	33.6				13C-OCDF	79.9	
Totals						CS Recoveries	
TCDDs	48.6		50		37Cl-2,3,7,8-TCDD	85	
PeCDDs	44.5		46		13C-1,2,3,4,7-PeCDD	85.9	
HxCDDs	83.8				13C-1,2,3,4,6-PeCDF	90	
HpCDDs	225				13C-1,2,3,4,6,9-HxCDF	82	
					13C-1,2,3,4,6,8,9-HpCDF	92.3	
TCDFs	42.4		43.2				
PeCDFs	22.4		28.5				
HxCDFs	39.3		39.6				
HpCDFs	52.5						
						AS Recoveries	
					13C-1,3,6,8-TCDD	81.3	
					13C-1,3,6,8-TCDF	101	
Total PCDD/Fs	1,280		1,290				
ITEF TEQs					 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com		
TEQ: ND=0	5.98		7.3				
TEQ: ND=DL/2	6.05		7.3				
TEQ: ND=DL	6.12		7.3				

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HD 19 Jun 09

Sample ID: BW-09-SS-090602 **TEQ Summary** **Method 1613**

Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	P1376_6875_004
Client Project ID:	080207-02	Weight/Volume:	10.36 g	QC Batch No.:	6875
Date Collected:	02 Jun 2009	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	04 Jun 2009	Dilution:	-	Date Analyzed:	14 Jun 2009 14:53
Lab Project No:	P1376	Units	pg/g	% Solids:	52.6 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.57]		0.0766	[0.57]	[0.57]	[0.57]
1,2,3,7,8-PeCDD	[1.49]	J	0.12	[0.747]	[1.49]	[1.49]
1,2,3,4,7,8-HxCDD	2.46		0.258	0.246	0.246	0.246
1,2,3,6,7,8-HxCDD	7.36		0.281	0.736	0.736	0.736
1,2,3,7,8,9-HxCDD	3.88		0.287	0.388	0.388	0.388
1,2,3,4,6,7,8-HpCDD	98		0.909	0.98	0.98	0.98
OCDD	686		1.98	0.686	0.0686	0.206
2,3,7,8-TCDF	3.45		0.0509	0.345	0.345	0.345
1,2,3,7,8-PeCDF	1.16	J	0.29	0.0579	0.0579	0.0348
2,3,4,7,8-PeCDF	2.8		0.277	1.4	1.4	0.84
1,2,3,4,7,8-HxCDF	3.11		0.153	0.311	0.311	0.311
1,2,3,6,7,8-HxCDF	2.18	J	0.149	0.218	0.218	0.218
2,3,4,6,7,8-HxCDF	2.86		0.152	0.286	0.286	0.286
1,2,3,7,8,9-HxCDF	0.785	J	0.209	0.0785	0.0785	0.0785
1,2,3,4,6,7,8-HpCDF	19.9		0.0813	0.199	0.199	0.199
1,2,3,4,7,8,9-HpCDF	1.51	J	0.12	0.0151	0.0151	0.0151
OCDF	33.6		0.422	0.0336	0.00336	0.0101

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	EMPC = 0, ND = 0	5.98	5.33	4.89
	EMPC = 0, ND = DL / 2	6.05	5.43	4.99
	EMPC = 0, ND = DL	6.12	5.53	5.09
	EMPC = 0, < J-level = 0	5.61	4.96	4.55
	EMPC = EMPC, ND = 0	7.3	7.39	6.96
	EMPC = EMPC, ND = DL / 2	7.3	7.39	6.96
	EMPC = EMPC, ND = DL	7.3	7.39	6.96
EMPC = EMPC, < J-level = 0	6.18	5.53	5.12	

Sample ID: BW-11-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.08 g	Sample ID:	P1376_6875_005	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	42.7 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	15:43:15
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=0.926]	0.223	J	13C-2,3,7,8-TCDD	85.5	
1,2,3,7,8-PeCDD	0.801			J	13C-1,2,3,7,8-PeCDD	76.5	
1,2,3,4,7,8-HxCDD	1.38			J	13C-1,2,3,4,7,8-HxCDD	89.7	
1,2,3,6,7,8-HxCDD	5.08				13C-1,2,3,6,7,8-HxCDD	86.2	
1,2,3,7,8,9-HxCDD	2.82				13C-1,2,3,7,8,9-HxCDD	88.2	
1,2,3,4,6,7,8-HpCDD	89.8				13C-1,2,3,4,6,7,8-HpCDD	87.5	
OCDD	731				13C-OCDD	80.7	
2,3,7,8-TCDF	1.16				13C-2,3,7,8-TCDF	96.9	
1,2,3,7,8-PeCDF	0.402			J	13C-1,2,3,7,8-PeCDF	82.1	
2,3,4,7,8-PeCDF	0.928			J	13C-2,3,4,7,8-PeCDF	77.2	
1,2,3,4,7,8-HxCDF	0.821			J	13C-1,2,3,4,7,8-HxCDF	89.3	
1,2,3,6,7,8-HxCDF	0.693			J	13C-1,2,3,6,7,8-HxCDF	83.7	
2,3,4,6,7,8-HxCDF	1.12			J	13C-2,3,4,6,7,8-HxCDF	87.5	
1,2,3,7,8,9-HxCDF	0.275			J	13C-1,2,3,7,8,9-HxCDF	83.2	
1,2,3,4,6,7,8-HpCDF	12.2				13C-1,2,3,4,6,7,8-HpCDF	85.5	
1,2,3,4,7,8,9-HpCDF	0.763			J	13C-1,2,3,4,7,8,9-HpCDF	81.2	
OCDF	33.3				13C-OCDF	76.7	
Totals						CS Recoveries	
TCDDs	19.8		22.8		37Cl-2,3,7,8-TCDD	87.2	
PeCDDs	19.2		21.6		13C-1,2,3,4,7-PeCDD	79.9	
HxCDDs	57.2				13C-1,2,3,4,6-PeCDF	84.5	
HpCDDs	272				13C-1,2,3,4,6,9-HxCDF	92.3	
					13C-1,2,3,4,6,8,9-HpCDF	93.1	
TCDFs	11.7		13.3				
PeCDFs	6.3		9.3				
HxCDFs	19.2		19.5		13C-1,3,6,8-TCDD	78.1	
HpCDFs	37.9				13C-1,3,6,8-TCDF	94	
Total PCDD/Fs	1,210		1,220			AS Recoveries	
ITEF TEQs							
TEQ: ND=0	4.01		4.23				
TEQ: ND=DL/2	4.05		4.23				
TEQ: ND=DL	4.08		4.23				



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 Date: _____

W 19 Jun 09

Sample ID: BW-11-SS-090602 / **TEQ Summary** **Method 1613**


Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	P1376_6875_005
Client Project ID:	080207-02	Weight/Volume:	10.08 g	QC Batch No.:	6875
Date Collected:	02 Jun 2009	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	04 Jun 2009	Dilution:	-	Date Analyzed:	14 Jun 2009 15:43
Lab Project No:	P1376	Units	pg/g	% Solids:	42.7 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	0.223	J	0.0715	0.223	0.223	0.223
1,2,3,7,8-PeCDD	0.801	J	0.109	0.4	0.801	0.801
1,2,3,4,7,8-HxCDD	1.38	J	0.306	0.138	0.138	0.138
1,2,3,6,7,8-HxCDD	5.08		0.341	0.508	0.508	0.508
1,2,3,7,8,9-HxCDD	2.82		0.369	0.282	0.282	0.282
1,2,3,4,6,7,8-HpCDD	89.8		1.48	0.898	0.898	0.898
OCDD	731		3.34	0.731	0.0731	0.219
2,3,7,8-TCDF	1.16		0.0696	0.116	0.116	0.116
1,2,3,7,8-PeCDF	0.402	J	0.231	0.0201	0.0201	0.0121
2,3,4,7,8-PeCDF	0.928	J	0.238	0.464	0.464	0.278
1,2,3,4,7,8-HxCDF	0.821	J	0.159	0.0821	0.0821	0.0821
1,2,3,6,7,8-HxCDF	0.693	J	0.157	0.0693	0.0693	0.0693
2,3,4,6,7,8-HxCDF	1.12	J	0.163	0.112	0.112	0.112
1,2,3,7,8,9-HxCDF	0.275	J	0.216	0.0275	0.0275	0.0275
1,2,3,4,6,7,8-HpCDF	12.2		0.172	0.122	0.122	0.122
1,2,3,4,7,8,9-HpCDF	0.763	J	0.261	0.00763	0.00763	0.00763
OCDF	33.3		0.374	0.0333	0.00333	0.01

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	EMPC = 0, ND = 0	4.23	3.95	3.91	
	EMPC = 0, ND = DL / 2	4.23	3.95	3.91	
	EMPC = 0, ND = DL	4.23	3.95	3.91	
	EMPC = 0, < J-level = 0	2.69	2	2.16	
	EMPC = EMPC, ND = 0	4.23	3.95	3.91	
	EMPC = EMPC, ND = DL / 2	4.23	3.95	3.91	
	EMPC = EMPC, ND = DL	4.23	3.95	3.91	
EMPC = EMPC, < J-level = 0	2.69	2	2.16		

Sample ID: BW-53-SS-090602

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1376	Date Received:	04 Jun 2009
Project ID:	080207-02	Weight/Volume:	10.31 g	Sample ID:	P1376_6875_006	Date Extracted:	09 Jun 2009
Date Collected:	02 Jun 2009	% Solids:	46.2 %	QC Batch No.:	6875	Date Analyzed:	14 Jun 2009
		Split:	-	Dilution:	-	Time Analyzed:	16:32:48
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.183	[Ra=0.678]		J	13C-2,3,7,8-TCDD	84.5	
1,2,3,7,8-PeCDD	0.684			J	13C-1,2,3,7,8-PeCDD	81	
1,2,3,4,7,8-HxCDD	1.56			J	13C-1,2,3,4,7,8-HxCDD	83.4	
1,2,3,6,7,8-HxCDD	6.76				13C-1,2,3,6,7,8-HxCDD	83.3	
1,2,3,7,8,9-HxCDD	2.86				13C-1,2,3,7,8,9-HxCDD	84	
1,2,3,4,6,7,8-HpCDD	93.5				13C-1,2,3,4,6,7,8-HpCDD	88.3	
OCDD	734				13C-OCDD	84.1	
2,3,7,8-TCDF	1.03				13C-2,3,7,8-TCDF	97.1	
1,2,3,7,8-PeCDF	0.408			J	13C-1,2,3,7,8-PeCDF	82.9	
2,3,4,7,8-PeCDF	0.824			J	13C-2,3,4,7,8-PeCDF	79.5	
1,2,3,4,7,8-HxCDF	0.86			J	13C-1,2,3,4,7,8-HxCDF	81.7	
1,2,3,6,7,8-HxCDF	0.778			J	13C-1,2,3,6,7,8-HxCDF	77.5	
2,3,4,6,7,8-HxCDF	1.31			J	13C-2,3,4,6,7,8-HxCDF	81.5	
1,2,3,7,8,9-HxCDF	0.357			J	13C-1,2,3,7,8,9-HxCDF	80.7	
1,2,3,4,6,7,8-HpCDF	17.3				13C-1,2,3,4,6,7,8-HpCDF	80.9	
1,2,3,4,7,8,9-HpCDF	0.952			J	13C-1,2,3,4,7,8,9-HpCDF	80.7	
OCDF	35.6				13C-OCDF	79.9	
Totals						CS Recoveries	
TCDDs	10.6		11.8		37Cl-2,3,7,8-TCDD	89.8	
PeCDDs	9.52		10.9		13C-1,2,3,4,7-PeCDD	81.9	
HxCDDs	53.5		54.2		13C-1,2,3,4,6-PeCDF	87.6	
HpCDDs	218				13C-1,2,3,4,6,9-HxCDF	89	
					13C-1,2,3,4,6,8,9-HpCDF	90.2	
TCDFs	8.97		11.3			AS Recoveries	
PeCDFs	5.97		8.99		13C-1,3,6,8-TCDD	81.8	
HxCDFs	25.7		26.2		13C-1,3,6,8-TCDF	101	
HpCDFs	51.6		52				
Total PCDD/Fs	1,150		1,160				
ITEF TEQs					 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com		
TEQ: ND=0	4.4		4.4				
TEQ: ND=DL/2	4.4		4.4				
TEQ: ND=DL	4.4		4.4				

Checkcode: 1661

AP D/F 2009 Rev. J


Reviewer
Date

[Handwritten Signature]
[Handwritten Date: 17 Jun 09]

Sample ID: BW-53-SS-090602 **TEQ Summary** **Method 1613**

Client Project Name:	Anchor Environmental, LLC	Matrix:	Solids	Lab Sample ID:	P1376_6875_006
Client Project ID:	080207-02	Weight/Volume:	10.31 g	QC Batch No.:	6875
Date Collected:	02 Jun 2009	Split:	-	Date Extracted:	09 Jun 2009
Date Received:	04 Jun 2009	Dilution:	-	Date Analyzed:	14 Jun 2009 16:32
Lab Project No:	P1376	Units:	pg/g	% Solids:	46.2 %

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2,3,7,8-TCDD	[0.183]	J	0.0878	[0.183]	[0.183]	[0.183]
1,2,3,7,8-PeCDD	0.684	J	0.1	0.342	0.684	0.684
1,2,3,4,7,8-HxCDD	1.56	J	0.151	0.156	0.156	0.156
1,2,3,6,7,8-HxCDD	6.76		0.161	0.676	0.676	0.676
1,2,3,7,8,9-HxCDD	2.86		0.171	0.286	0.286	0.286
1,2,3,4,6,7,8-HpCDD	93.5		1.13	0.935	0.935	0.935
OCDD	734		2.12	0.734	0.0734	0.22
2,3,7,8-TCDF	1.03		0.0391	0.103	0.103	0.103
1,2,3,7,8-PeCDF	0.408	J	0.144	0.0204	0.0204	0.0122
2,3,4,7,8-PeCDF	0.824	J	0.131	0.412	0.412	0.247
1,2,3,4,7,8-HxCDF	0.86	J	0.181	0.086	0.086	0.086
1,2,3,6,7,8-HxCDF	0.778	J	0.176	0.0778	0.0778	0.0778
2,3,4,6,7,8-HxCDF	1.31	J	0.178	0.131	0.131	0.131
1,2,3,7,8,9-HxCDF	0.357	J	0.234	0.0357	0.0357	0.0357
1,2,3,4,6,7,8-HpCDF	17.3		0.132	0.173	0.173	0.173
1,2,3,4,7,8,9-HpCDF	0.952	J	0.193	0.00952	0.00952	0.00952
OCDF	35.6		0.539	0.0356	0.00356	0.0107

 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com	TEQ Summaries			
	EMPC = 0, ND = 0	4.21	3.86	3.84
	EMPC = 0, ND = DL / 2	4.26	3.91	3.89
	EMPC = 0, ND = DL	4.3	3.95	3.93
	EMPC = 0, < J-level = 0	2.94	2.25	2.4
	EMPC = EMPC, ND = 0	4.4	4.05	4.03
	EMPC = EMPC, ND = DL / 2	4.4	4.05	4.03
	EMPC = EMPC, ND = DL	4.4	4.05	4.03
EMPC = EMPC, < J-level = 0	2.94	2.25	2.4	