

Metals Data Review Checklist

Method: ICP CP-MS GFA CVA

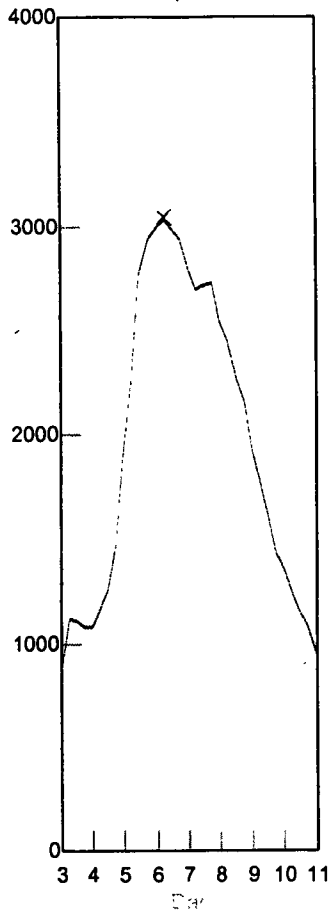
Analysis Date: 1-27-11

	Analyst	Peer	Comment
	<i>HA 1-28</i>	<i>BLW 1-28</i>	
Lab/Info			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Quality Control			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
ICV/CCV	✓	✓	<i>See log</i>
ICB/CCB	✓	✓	<i>↓</i>
Spikes			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	<i>See log</i>
Carry-over	✓	✓	<i>↓</i>
QA/QC			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	<i>See log</i>
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 Analysis Notes and QA's	✓	✓	

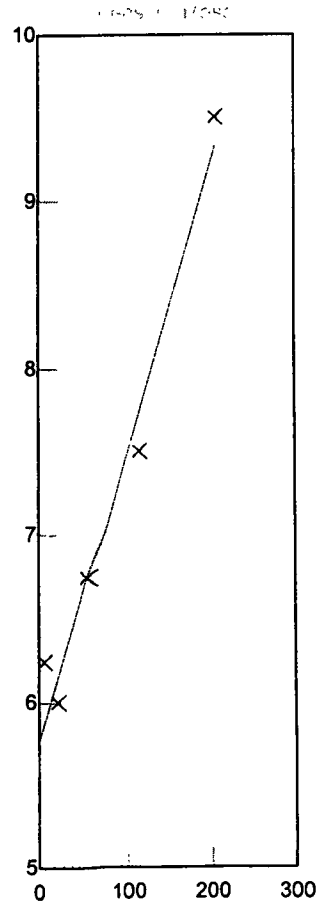
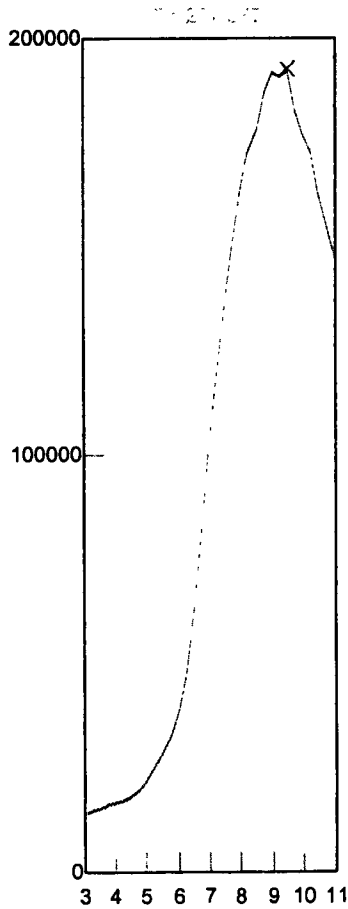
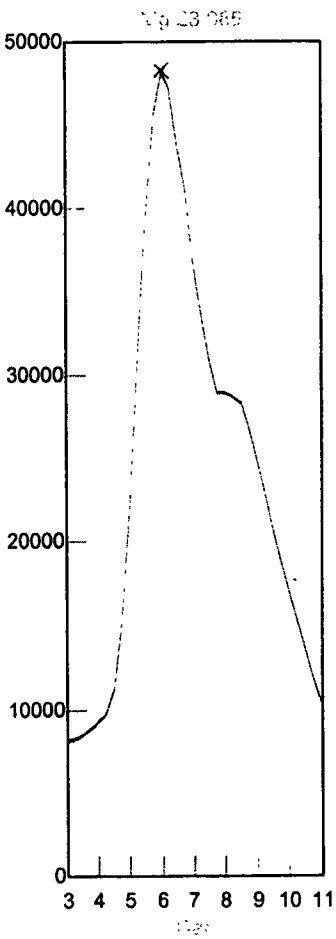
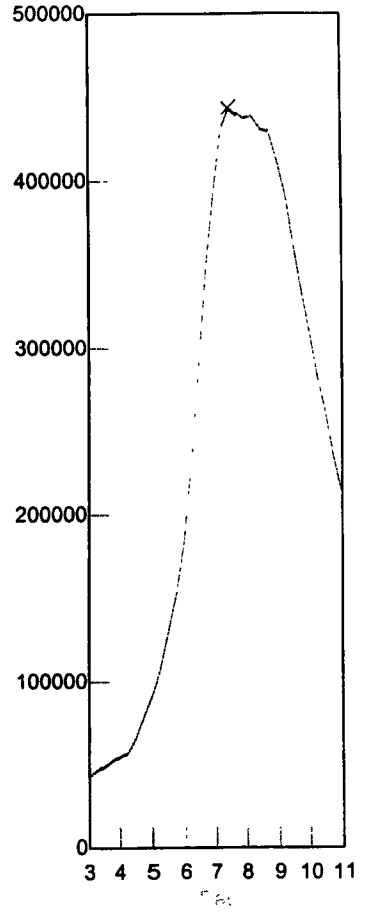
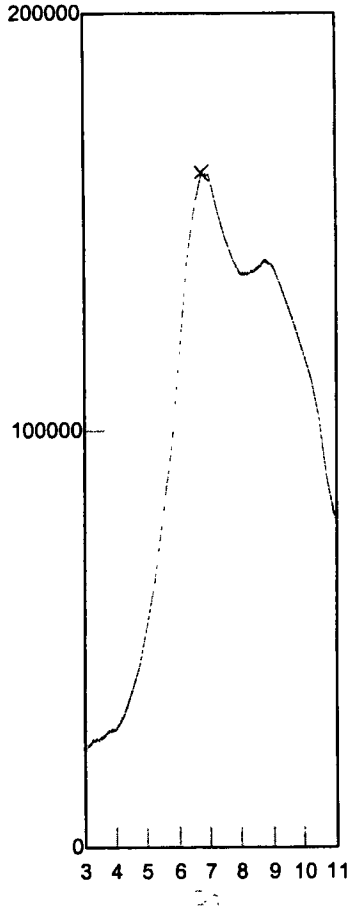
Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.976 ✓	2019	2167	0.730 ✓	
Mg	23.985	24.029 ✓	5654	2287	0.678	
Co	58.933	58.929 ✓	14154	2550	0.690	
In	114.904	114.928 ✓	27772	2997	0.699	
Pb	207.977	207.976 ✓	50422	3754	0.702	



1-27-11



Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, January 27, 2011 08:26:38

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.7385

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

1.02

Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	42945.742	440.675	1.026
In	115	467640.252	2143.151	0.458
Pb	208	217603.296	807.617	0.371
[> Ba	138	316240.409	2305.386	0.729
[Ba++	69	0.015	0.000	2.853
[> Ce	140	375913.564	2753.208	0.732
[CeO	156	0.022	0.000	2.083
Bkgd	220	3.500	1.630	46.566

After used

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, January 27, 2011 10:44:34
Sample Description:
Sample File: 1120.sam
Method File: c:\elandata\Method\aridailyperf.mth
Dataset File: c:\elandata\Dataset\daily performance\Sample.7387
Tuning File: c:\elandata\Tuning\2008.tun
Optimization File: c:\elandata\Optimize\arioptimize.dac
Number of Replicates: 5
Dual Detector Mode: Pulse

1.02

Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	57554.394	339.463	0.590
In	115	509689.813	4404.201	0.864
Pb	208	243520.390	1907.940	0.783
[> Ba	138	326938.235	2571.225	0.786
[Ba++	69	0.012	0.000	2.569
[> Ce	140	387059.493	2497.486	0.645
[CeO	156	0.024	0.000	1.410
Bkgd	220	3.000	1.896	63.191

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 10:56:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L				392730	1
[Be	9		ug/L				3	21
C	13		mg/L				5302	0
Cl	37		mg/L				2959467	0
> Sc	45		ug/L				303483	0
V-1	51		ug/L				2787	6
V	51		ug/L				1908	3
Cr	52		ug/L				8625	1
Cr	53		ug/L				693	8
Mn	55		ug/L				850	4
Co	59		ug/L				161	5
> Ge	72		ug/L				439461	0
Ni	60		ug/L				69	9
Ni	62		ug/L				87	15
Cu	63		ug/L				371	4
Cu	65		ug/L				138	4
Zn	66		ug/L				367	4
Zn	67		ug/L				114	15
Zn	68		ug/L				10988	1
As-1	75		ug/L				-64	42
As	75		ug/L				13015	0
Se	82		ug/L				0	7526
Se	78		ug/L				13279	0
[Mo	98		ug/L				149	20
Y	89		ug/L				353401	0
Kr	83		ug/L				96	8
> In	115		ug/L				490660	0
Ag	107		ug/L				207	19
Cd	111		ug/L				247	5
Cd	114		ug/L				24	32
Sb	121		ug/L				404	5
Sb	123		ug/L				311	8
Ba	135		ug/L				28	34
Ba	137		ug/L				59	11
> Tb	159		ug/L				396208	0
Tl	205		ug/L				204	19
Pb	208		ug/L				541	5
Bi	209		ug/L				360078	0
Th	232		ug/L				1275	5
[U	238		ug/L				173	11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:04:16

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	395422	0
[Be	9	10.000	ug/L	0.389	3	3	4501	3
C	13		mg/L			5302	4892	3
Cl	37		mg/L			2959467	2939676	0
[> Sc	45		ug/L			303483	302337	0
| V-1	51	10.000	ug/L	0.051	0	2787	148318	0
| V	51	10.000	ug/L	0.066	0	1908	150491	0
| Cr	52	10.000	ug/L	0.104	1	8625	136672	0
| Cr	53	10.000	ug/L	0.225	2	693	16138	1
| Mn	55	10.000	ug/L	0.076	0	850	226938	0
| Co	59	10.000	ug/L	0.050	0	161	171702	0
[> Ge	72		ug/L			439461	428227	0
| Ni	60	10.000	ug/L	0.025	0	69	36795	0
| Ni	62	10.000	ug/L	0.166	1	87	5682	1
| Cu	63	10.000	ug/L	0.067	0	371	84511	0
| Cu	65	10.000	ug/L	0.082	0	138	40695	1
| Zn	66	10.000	ug/L	0.054	0	367	27056	0
| Zn	67	10.000	ug/L	0.179	1	114	4524	2
| Zn	68	10.000	ug/L	0.120	1	10988	29999	1
| As-1	75	10.000	ug/L	0.047	0	-64	23071	0
| As	75	10.000	ug/L	0.094	0	13015	36074	0
| Se	82	10.000	ug/L	0.025	0	0	2454	0
| Se	78	10.000	ug/L	0.181	1	13279	19432	0
[Mo	98	10.000	ug/L	0.064	0	149	86145	0
| Y	89		ug/L			353401	347159	0
| Kr	83		ug/L			96	94	7
[> In	115		ug/L			490660	484963	0
| Ag	107	10.000	ug/L	0.018	0	207	167663	0
| Cd	111	10.000	ug/L	0.055	0	247	41259	0
| Cd	114	10.000	ug/L	0.046	0	24	96378	0
| Sb	121	10.000	ug/L	0.070	0	404	133429	0
| Sb	123	10.000	ug/L	0.028	0	311	100754	0
| Ba	135	10.000	ug/L	0.005	0	28	29248	0
[Ba	137	10.000	ug/L	0.064	0	59	49021	0
[> Tb	159		ug/L			396208	395470	0
| Tl	205	10.000	ug/L	0.051	0	204	307165	0
| Pb	208	10.000	ug/L	0.050	0	541	428457	0
| Bi	209		ug/L			360078	352879	0
| Th	232	10.000	ug/L	0.104	1	1275	527859	0
[U	238	10.000	ug/L	0.054	0	173	583580	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:12:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	399560	1
[Be	9	20.079	ug/L	0.215	1	3	9274	1
C	13		mg/L			5302	4601	1
Cl	37		mg/L			2959467	2915695	0
> Sc	45		ug/L			303483	302740	0
V-1	51	20.002	ug/L	0.105	0	2787	294432	0
V	51	20.006	ug/L	0.115	0	1908	299932	0
Cr	52	20.021	ug/L	0.037	0	8625	266467	0
Cr	53	20.031	ug/L	0.403	2	693	31869	1
Mn	55	19.974	ug/L	0.346	1	850	450667	1
Co	59	20.004	ug/L	0.146	0	161	344073	0
> Ge	72		ug/L			439461	423185	0
Ni	60	20.007	ug/L	0.121	0	69	72795	1
Ni	62	19.999	ug/L	0.159	0	87	11144	0
Cu	63	20.048	ug/L	0.146	0	371	168684	1
Cu	65	20.012	ug/L	0.147	0	138	80548	1
Zn	66	20.048	ug/L	0.092	0	367	53754	0
Zn	67	20.100	ug/L	0.216	1	114	9052	1
Zn	68	20.001	ug/L	0.100	0	10988	48713	0
As-1	75	20.031	ug/L	0.066	0	-64	46021	0
As	75	20.002	ug/L	0.058	0	13015	58786	0
Se	82	20.006	ug/L	0.359	1	0	4858	0
Se	78	19.899	ug/L	0.299	1	13279	25302	0
Mo	98	20.060	ug/L	0.147	0	149	172700	1
Y	89		ug/L			353401	344181	1
Kr	83		ug/L			96	95	6
> In	115		ug/L			490660	487300	0
Ag	107	20.026	ug/L	0.259	1	207	338910	0
Cd	111	19.963	ug/L	0.200	1	247	81915	1
Cd	114	19.978	ug/L	0.107	0	24	192603	0
Sb	121	20.009	ug/L	0.091	0	404	268333	0
Sb	123	20.000	ug/L	0.054	0	311	202183	0
Ba	135	20.021	ug/L	0.207	1	28	59059	1
Ba	137	20.000	ug/L	0.139	0	59	98466	0
> Tb	159		ug/L			396208	396982	0
Tl	205	20.032	ug/L	0.139	0	204	621467	1
Pb	208	20.031	ug/L	0.064	0	541	866432	0
Bi	209		ug/L			360078	353904	0
Th	232	20.072	ug/L	0.066	0	1275	1077857	0
U	238	20.036	ug/L	0.119	0	173	1182212	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:19:52

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	408665	0
[Be	9	49.525	ug/L	0.304	0	3	22333	1
C	13		mg/L			5302	4627	0
Cl	37		mg/L			2959467	2922050	0
[> Sc	45		ug/L			303483	305735	0
V-1	51	49.780	ug/L	0.343	0	2787	720101	1
V	51	49.768	ug/L	0.187	0	1908	733684	1
Cr	52	49.718	ug/L	0.265	0	8625	637616	0
Cr	53	49.683	ug/L	0.426	0	693	76394	0
Mn	55	49.770	ug/L	0.788	1	850	1107343	0
Co	59	49.614	ug/L	0.350	0	161	829551	0
[> Ge	72		ug/L			439461	426947	0
Ni	60	49.655	ug/L	0.376	0	69	176081	0
Ni	62	49.600	ug/L	0.538	1	87	26695	0
Cu	63	49.527	ug/L	0.496	1	371	400927	0
Cu	65	49.536	ug/L	0.224	0	138	192029	0
Zn	66	49.608	ug/L	0.071	0	367	128640	0
Zn	67	49.695	ug/L	0.920	1	114	21756	1
Zn	68	49.492	ug/L	0.095	0	10988	101271	1
As-1	75	49.692	ug/L	0.187	0	-64	111824	0
As	75	49.633	ug/L	0.144	0	13015	124343	0
Se	82	49.668	ug/L	0.604	1	0	11779	0
Se	78	49.449	ug/L	0.442	0	13279	42639	0
[Mo	98	49.715	ug/L	0.458	0	149	419596	0
Y	89		ug/L			353401	346685	0
Kr	83		ug/L			96	98	2
[> In	115		ug/L			490660	490727	0
Ag	107	49.708	ug/L	0.453	0	207	822862	1
Cd	111	49.712	ug/L	0.617	1	247	199316	1
Cd	114	49.743	ug/L	0.399	0	24	470794	0
Sb	121	49.794	ug/L	0.513	1	404	658295	0
Sb	123	49.734	ug/L	0.517	1	311	492696	0
Ba	135	49.708	ug/L	0.855	1	28	143410	0
[Ba	137	49.773	ug/L	0.556	1	59	241204	0
[> Tb	159		ug/L			396208	402780	0
Tl	205	49.673	ug/L	0.204	0	204	1513665	0
Pb	208	49.633	ug/L	0.101	0	541	2100248	0
Bi	209		ug/L			360078	355458	0
Th	232	49.866	ug/L	0.562	1	1275	2678879	0
[U	238	49.857	ug/L	0.152	0	173	2942175	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:27:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	390409	1
[Be	9	100.492	ug/L	1.392	1	3	44005	0
C	13		mg/L			5302	5062	0
Cl	37		mg/L			2959467	2944182	0
> Sc	45		ug/L			303483	303468	0
V-1	51	100.443	ug/L	1.216	1	2787	1460859	1
V	51	100.457	ug/L	1.438	1	1908	1490649	1
Cr	52	100.214	ug/L	0.976	0	8625	1275996	1
Cr	53	100.270	ug/L	0.915	0	693	153714	0
Mn	55	100.060	ug/L	0.873	0	850	2213484	1
Co	59	100.226	ug/L	0.434	0	161	1675923	0
> Ge	72		ug/L			439461	421637	0
Ni	60	100.061	ug/L	1.397	1	69	351067	1
Ni	62	100.031	ug/L	0.912	0	87	53140	0
Cu	63	99.883	ug/L	0.448	0	371	795098	0
Cu	65	99.944	ug/L	0.033	0	138	381789	0
Zn	66	99.790	ug/L	0.228	0	367	253424	0
Zn	67	99.964	ug/L	0.304	0	114	43061	0
Zn	68	99.740	ug/L	1.336	1	10988	189296	1
As-1	75	100.227	ug/L	0.441	0	-64	224504	0
As	75	100.267	ug/L	0.532	0	13015	237334	0
Se	82	99.861	ug/L	0.528	0	0	23281	0
Se	78	100.020	ug/L	0.865	0	13279	72185	0
Mo	98	100.376	ug/L	0.366	0	149	847129	0
Y	89		ug/L			353401	339610	0
Kr	83		ug/L			96	106	1
> In	115		ug/L			490660	479829	0
Ag	107	100.113	ug/L	0.020	0	207	1626380	0
Cd	111	100.269	ug/L	0.726	0	247	396409	0
Cd	114	100.150	ug/L	0.698	0	24	931498	0
Sb	121	100.423	ug/L	0.462	0	404	1316381	0
Sb	123	100.368	ug/L	0.451	0	311	984018	0
Ba	135	100.207	ug/L	0.590	0	28	284654	0
Ba	137	100.120	ug/L	0.050	0	59	476282	0
> Tb	159		ug/L			396208	389170	1
Tl	205	100.538	ug/L	1.479	1	204	3013723	0
Pb	208	100.621	ug/L	1.362	1	541	4200109	0
Bi	209		ug/L			360078	346498	0
Th	232	100.840	ug/L	0.969	0	1275	5383611	0
U	238	100.610	ug/L	1.210	1	173	5854939	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:35:30

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	391283	0
[Be	9	0.002	ug/L	0.012	622	3	4	124
C	13		mg/L			5302	5197	1
Cl	37		mg/L			2959467	2961367	0
> Sc	45		ug/L			303483	299455	0
V-1	51	0.017	ug/L	0.001	6	2787	2994	1
V	51	-0.004	ug/L	0.005	127	1908	1824	4
Cr	52	0.005	ug/L	0.012	262	8625	8569	2
Cr	53	-0.060	ug/L	0.025	42	693	594	6
Mn	55	-0.001	ug/L	0.006	715	850	822	15
Co	59	0.005	ug/L	0.006	126	161	240	43
> Ge	72		ug/L			439461	419905	0
Ni	60	0.004	ug/L	0.006	157	69	80	27
Ni	62	0.007	ug/L	0.048	732	87	86	29
Cu	63	0.002	ug/L	0.005	217	371	374	11
Cu	65	0.003	ug/L	0.008	251	138	144	20
Zn	66	-0.016	ug/L	0.010	64	367	311	8
Zn	67	0.026	ug/L	0.006	23	114	120	2
Zn	68	0.145	ug/L	0.127	87	10988	10758	2
As-1	75	-0.017	ug/L	0.022	128	-64	-100	49
As	75	0.139	ug/L	0.010	6	13015	12747	0
Se	82	0.006	ug/L	0.030	491	0	1	530
Se	78	0.579	ug/L	0.038	6	13279	13031	0
Mo	98	0.033	ug/L	0.016	47	149	417	31
Y	89		ug/L			353401	343375	0
Kr	83		ug/L			96	88	5
> In	115		ug/L			490660	486168	0
Ag	107	0.027	ug/L	0.011	41	207	643	28
Cd	111	0.013	ug/L	0.005	34	247	297	7
Cd	114	0.010	ug/L	0.006	58	24	115	46
Sb	121	0.061	ug/L	0.019	31	404	1211	21
Sb	123	0.060	ug/L	0.018	30	311	907	21
Ba	135	0.011	ug/L	0.007	60	28	59	32
Ba	137	0.009	ug/L	0.007	75	59	103	33
> Tb	159		ug/L			396208	392309	0
Tl	205	0.014	ug/L	0.009	62	204	616	42
Pb	208	0.011	ug/L	0.008	75	541	998	34
Bi	209		ug/L			360078	355311	0
Th	232	0.059	ug/L	0.017	28	1275	4417	21
U	238	0.013	ug/L	0.007	57	173	921	47

Quantitative Analysis - Calibration Report

Sample Date/Time: Thursday, January 27, 2011 11:27:42

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\012711a.cal

Analyte	Mass	r Corr Coeff	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	0.9999	0.0011	10	20	50	100	
C	13							
Cl	37							
Sc	45							
V-1	51	1.0000	0.0478	10	20	50	100	
V	51	1.0000	0.0488	10	20	50	100	
Cr	52	1.0000	0.0417	10	20	50	100	
Cr	53	1.0000	0.0050	10	20	50	100	
Mn	55	1.0000	0.0729	10	20	50	100	
Co	59	1.0000	0.0551	10	20	50	100	
Ge	72							
Ni	60	1.0000	0.0083	10	20	50	100	
Ni	62	1.0000	0.0013	10	20	50	100	
Cu	63	0.9999	0.0189	10	20	50	100	
Cu	65	0.9999	0.0091	10	20	50	100	
Zn	66	1.0000	0.0060	10	20	50	100	
Zn	67	1.0000	0.0010	10	20	50	100	
Zn	68	0.9999	0.0043	10	20	50	100	
As-1	75	1.0000	0.0053	10	20	50	100	
As	75	1.0000	0.0053	10	20	50	100	
Se	82	1.0000	0.0006	10	20	50	100	
Se	78	0.9999	0.0014	10	20	50	100	
Mo	98	1.0000	0.0200	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.0339	10	20	50	100	
Cd	111	1.0000	0.0082	10	20	50	100	
Cd	114	1.0000	0.0194	10	20	50	100	
Sb	121	1.0000	0.0273	10	20	50	100	
Sb	123	1.0000	0.0204	10	20	50	100	
Ba	135	1.0000	0.0059	10	20	50	100	
Ba	137	1.0000	0.0099	10	20	50	100	
Tb	159							
Tl	205	0.9999	0.0770	10	20	50	100	
Pb	208	0.9999	0.1073	10	20	50	100	
Bi	209							
Th	232	0.9999	0.1372	10	20	50	100	
U	238	0.9999	0.1495	10	20	50	100	

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:42:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	402960	0
[Be	9	48.847	ug/L	0.527	1	3	22082	1
C	13		mg/L			5302	12074	4
Cl	37		mg/L			2959467	2947622	0
> Sc	45		ug/L			303483	302019	0
V-1	51	49.975	ug/L	0.499	0	2787	724769	1
V	51	49.927	ug/L	0.415	0	1908	738276	0
Cr	52	49.954	ug/L	0.429	0	8625	637301	0
Cr	53	49.806	ug/L	0.238	0	693	76334	0
Mn	55	49.720	ug/L	0.127	0	850	1095044	0
Co	59	50.565	ug/L	0.354	0	161	841541	0
> Ge	72		ug/L			439461	423346	0
Ni	60	50.246	ug/L	0.225	0	69	177039	0
Ni	62	50.231	ug/L	0.735	1	87	26834	1
Cu	63	50.307	ug/L	0.239	0	371	402262	0
Cu	65	50.267	ug/L	0.488	0	138	192862	0
Zn	66	51.725	ug/L	0.121	0	367	132062	0
Zn	67	50.952	ug/L	0.346	0	114	22091	0
Zn	68	51.847	ug/L	0.454	0	10988	103882	0
As-1	75	49.730	ug/L	0.217	0	-64	111813	0
As	75	49.672	ug/L	0.158	0	13015	124377	0
Se	82	79.589	ug/L	0.437	0	0	18630	0
Se	78	79.289	ug/L	0.369	0	13279	60107	0
Mo	98	49.260	ug/L	0.401	0	149	417496	1
Y	89		ug/L			353401	346509	0
Kr	83		ug/L			96	106	3
> In	115		ug/L			490660	483144	0
Ag	107	47.683	ug/L	0.409	0	207	780068	0
Cd	111	49.667	ug/L	0.416	0	247	197835	0
Cd	114	49.540	ug/L	0.401	0	24	463975	1
Sb	121	49.199	ug/L	0.152	0	404	649570	0
Sb	123	49.338	ug/L	0.221	0	311	487216	0
Ba	135	51.469	ug/L	0.358	0	28	147226	0
Ba	137	51.570	ug/L	0.447	0	59	247048	1
> Tb	159		ug/L			396208	401753	0
Tl	205	49.087	ug/L	0.153	0	204	1519271	0
Pb	208	48.484	ug/L	0.198	0	541	2089747	0
Bi	209		ug/L			360078	352099	0
Th	232	49.372	ug/L	0.120	0	1275	2721941	0
U	238	48.662	ug/L	0.399	0	173	2923797	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:50:02

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	398416	1
[Be	9	0.007	ug/L	0.009	119	3	6	60
C	13		mg/L			5302	5380	1
Cl	37		mg/L			2959467	2963542	0
[> Sc	45		ug/L			303483	300437	0
V-1	51	0.006	ug/L	0.001	23	2787	2844	0
V	51	-0.012	ug/L	0.003	23	1908	1706	2
Cr	52	0.000	ug/L	0.003	794	8625	8544	0
Cr	53	-0.056	ug/L	0.003	5	693	601	0
Mn	55	-0.004	ug/L	0.004	94	850	752	11
Co	59	0.002	ug/L	0.003	161	161	190	26
[> Ge	72		ug/L			439461	421070	0
Ni	60	0.003	ug/L	0.004	138	69	77	19
Ni	62	-0.001	ug/L	0.014	1488	87	82	8
Cu	63	-0.002	ug/L	0.006	266	371	338	14
Cu	65	0.001	ug/L	0.004	674	138	135	10
Zn	66	-0.004	ug/L	0.007	187	367	342	4
Zn	67	-0.019	ug/L	0.029	155	114	101	12
Zn	68	-0.029	ug/L	0.053	180	10988	10475	0
As-1	75	-0.016	ug/L	0.017	105	-64	-97	38
As	75	0.058	ug/L	0.062	107	13015	12600	0
Se	82	0.030	ug/L	0.041	137	0	6	139
Se	78	0.281	ug/L	0.216	76	13279	12890	0
Mo	98	0.023	ug/L	0.010	44	149	335	25
Y	89		ug/L			353401	344600	0
Kr	83		ug/L			96	86	7
[> In	115		ug/L			490660	487773	0
Ag	107	0.019	ug/L	0.006	34	207	512	20
Cd	111	0.007	ug/L	0.004	50	247	274	4
Cd	114	0.006	ug/L	0.003	53	24	82	37
Sb	121	0.020	ug/L	0.007	33	404	665	13
Sb	123	0.016	ug/L	0.010	65	311	465	21
Ba	135	0.008	ug/L	0.005	63	28	52	29
Ba	137	0.006	ug/L	0.004	59	59	90	20
[> Tb	159		ug/L			396208	397369	1
Tl	205	0.008	ug/L	0.005	53	204	463	30
Pb	208	0.007	ug/L	0.005	71	541	845	26
Bi	209		ug/L			360078	357133	0
Th	232	0.033	ug/L	0.008	23	1275	3074	15
U	238	0.008	ug/L	0.004	49	173	661	37

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 11:57:14

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	399048	1
[Be	9	48.809	ug/L	0.398	0	3	21849	0
C	13		mg/L			5302	4721	1
Cl	37		mg/L			2959467	2946551	0
[> Sc	45		ug/L			303483	298986	0
| V-1	51	49.260	ug/L	0.285	0	2787	707254	0
| V	51	49.209	ug/L	0.264	0	1908	720376	0
| Cr	52	49.451	ug/L	0.516	1	8625	624633	1
| Cr	53	49.281	ug/L	0.396	0	693	74780	0
| Mn	55	49.557	ug/L	0.345	0	850	1080470	0
[Co	59	49.717	ug/L	0.166	0	161	819128	0
[> Ge	72		ug/L			439461	419828	0
| Ni	60	49.734	ug/L	0.102	0	69	173780	0
| Ni	62	49.490	ug/L	0.178	0	87	26220	1
| Cu	63	49.948	ug/L	0.285	0	371	396064	0
| Cu	65	49.877	ug/L	0.483	0	138	189769	0
| Zn	66	49.842	ug/L	0.422	0	367	126205	0
| Zn	67	49.591	ug/L	0.537	1	114	21324	0
| Zn	68	50.209	ug/L	0.471	0	10988	100093	0
| As-1	75	49.385	ug/L	0.243	0	-64	110113	0
| As	75	49.474	ug/L	0.239	0	13015	122899	0
| Se	82	49.561	ug/L	0.372	0	0	11504	0
| Se	78	49.880	ug/L	0.306	0	13279	42203	0
[Mo	98	49.380	ug/L	0.747	1	149	414999	0
Y	89		ug/L			353401	342465	0
Kr	83		ug/L			96	95	1
[> In	115		ug/L			490660	481520	0
| Ag	107	49.715	ug/L	0.439	0	207	810596	1
| Cd	111	49.417	ug/L	0.572	1	247	196169	0
| Cd	114	49.451	ug/L	0.462	0	24	461564	0
| Sb	121	49.151	ug/L	0.479	0	404	646720	0
| Sb	123	49.218	ug/L	0.133	0	311	484396	0
| Ba	135	49.296	ug/L	0.223	0	28	140536	0
[Ba	137	49.390	ug/L	0.567	1	59	235797	0
[> Tb	159		ug/L			396208	392673	0
| Tl	205	49.118	ug/L	0.225	0	204	1485886	0
| Pb	208	49.106	ug/L	0.128	0	541	2068668	0
| Bi	209		ug/L			360078	349726	0
| Th	232	49.315	ug/L	0.126	0	1275	2657301	0
[U	238	49.266	ug/L	0.146	0	173	2893149	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:04:27

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	402607	1
[Be	9	0.004	ug/L	0.010	282	3	5	90
C	13		mg/L			5302	5158	0
Cl	37		mg/L			2959467	2951799	0
> Sc	45		ug/L			303483	301116	0
V-1	51	0.012	ug/L	0.008	66	2787	2933	3
V	51	-0.013	ug/L	0.005	39	1908	1696	4
Cr	52	0.016	ug/L	0.006	38	8625	8763	0
Cr	53	-0.062	ug/L	0.018	29	693	594	4
Mn	55	-0.004	ug/L	0.005	128	850	751	14
Co	59	0.002	ug/L	0.003	156	161	190	23
> Ge	72		ug/L			439461	416979	0
Ni	60	0.006	ug/L	0.009	165	69	85	37
Ni	62	-0.006	ug/L	0.040	717	87	79	25
Cu	63	-0.003	ug/L	0.005	200	371	331	12
Cu	65	-0.003	ug/L	0.007	249	138	120	22
Zn	66	-0.025	ug/L	0.015	59	367	285	12
Zn	67	-0.016	ug/L	0.004	28	114	102	1
Zn	68	-0.012	ug/L	0.127	1030	10988	10403	1
As-1	75	-0.017	ug/L	0.004	25	-64	-98	10
As	75	0.124	ug/L	0.056	45	13015	12624	0
Se	82	0.019	ug/L	0.024	125	0	4	127
Se	78	0.537	ug/L	0.207	38	13279	12915	0
Mo	98	0.020	ug/L	0.007	34	149	307	17
Y	89		ug/L			353401	344327	0
Kr	83		ug/L			96	89	2
> In	115		ug/L			490660	487469	1
Ag	107	0.016	ug/L	0.006	38	207	462	20
Cd	111	0.004	ug/L	0.007	181	247	261	10
Cd	114	0.004	ug/L	0.003	73	24	58	41
Sb	121	0.030	ug/L	0.011	35	404	805	17
Sb	123	0.031	ug/L	0.014	45	311	615	21
Ba	135	0.007	ug/L	0.007	105	28	47	41
Ba	137	0.001	ug/L	0.007	547	59	65	52
> Tb	159		ug/L			396208	398211	0
Tl	205	0.006	ug/L	0.003	50	204	404	25
Pb	208	0.005	ug/L	0.005	101	541	765	29
Bi	209		ug/L			360078	355564	0
Th	232	0.049	ug/L	0.015	30	1275	3943	20
U	238	0.008	ug/L	0.005	63	173	627	45

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:11:38

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	397983	1
[Be	9	0.195	ug/L	0.013	6	3	90	5
C	13		mg/L			5302	5635	0
Cl	37		mg/L			2959467	2965461	0
> Sc	45		ug/L			303483	295684	0
V-1	51	0.207	ug/L	0.004	1	2787	5648	0
V	51	0.184	ug/L	0.004	2	1908	4514	1
Cr	52	0.508	ug/L	0.013	2	8625	14660	0
Cr	53	0.416	ug/L	0.004	1	693	1293	0
Mn	55	0.494	ug/L	0.014	2	850	11478	2
Co	59	0.205	ug/L	0.007	3	161	3491	3
> Ge	72		ug/L			439461	418296	0
Ni	60	0.520	ug/L	0.011	2	69	1877	1
Ni	62	0.534	ug/L	0.039	7	87	363	5
Cu	63	0.516	ug/L	0.011	2	371	4426	2
Cu	65	0.522	ug/L	0.014	2	138	2109	2
Zn	66	4.264	ug/L	0.074	1	367	11078	2
Zn	67	3.763	ug/L	0.180	4	114	1713	5
Zn	68	4.107	ug/L	0.071	1	10988	17761	0
As-1	75	0.170	ug/L	0.017	10	-64	315	12
As	75	0.244	ug/L	0.023	9	13015	12932	0
Se	82	0.506	ug/L	0.036	7	0	116	6
Se	78	0.773	ug/L	0.089	11	13279	13095	0
Mo	98	0.195	ug/L	0.004	1	149	1778	2
Y	89		ug/L			353401	347766	1
Kr	83		ug/L			96	88	4
> In	115		ug/L			490660	483069	0
Ag	107	0.198	ug/L	0.006	3	207	3436	2
Cd	111	0.206	ug/L	0.005	2	247	1061	1
Cd	114	0.201	ug/L	0.002	0	24	1904	1
Sb	121	0.193	ug/L	0.001	0	404	2949	0
Sb	123	0.196	ug/L	0.003	1	311	2237	1
Ba	135	0.500	ug/L	0.003	0	28	1457	1
Ba	137	0.497	ug/L	0.009	1	59	2438	2
> Tb	159		ug/L			396208	397120	1
Tl	205	0.194	ug/L	0.001	0	204	6124	0
Pb	208	0.981	ug/L	0.005	0	541	42334	1
Bi	209		ug/L			360078	352051	0
Th	232	0.194	ug/L	0.006	3	1275	11865	1
U	238	0.204	ug/L	0.002	0	173	12272	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:18:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	404450	0
[Be	9	-0.001	ug/L	0.002	134	3	2	24
C	13		mg/L			5302	20127	0
Cl	37		mg/L			2959467	4406547	0
[> Sc	45		ug/L			303483	288648	1
V-1	51	0.037	ug/L	0.019	51	2787	3163	8
V	51	0.630	ug/L	0.021	3	1908	10686	1
Cr	52	0.601	ug/L	0.012	1	8625	15431	0
Cr	53	2.405	ug/L	0.095	3	693	4149	2
Mn	55	0.315	ug/L	0.002	0	850	7437	2
Co	59	0.016	ug/L	0.001	6	161	403	3
[> Ge	72		ug/L			439461	405792	1
Ni	60	0.617	ug/L	0.007	1	69	2146	2
Ni	62	3.711	ug/L	0.122	3	87	1974	1
Cu	63	0.503	ug/L	0.008	1	371	4192	0
Cu	65	0.595	ug/L	0.020	3	138	2314	2
Zn	66	4.969	ug/L	0.025	0	367	12467	1
Zn	67	5.298	ug/L	0.055	1	114	2296	2
Zn	68	4.005	ug/L	0.099	2	10988	17053	0
As-1	75	-0.001	ug/L	0.024	2695	-64	-61	84
As	75	0.048	ug/L	0.026	53	13015	12122	1
Se	82	0.019	ug/L	0.025	129	0	4	131
Se	78	0.258	ug/L	0.162	62	13279	12408	0
[Mo	98	407.881	ug/L	2.630	0	149	3312370	0
Y	89		ug/L			353401	327408	1
Kr	83		ug/L			96	101	2
[> In	115		ug/L			490660	453115	0
Ag	107	0.045	ug/L	0.005	10	207	875	8
Cd	111	0.057	ug/L	0.033	56	247	442	27
Cd	114	0.703	ug/L	0.004	0	24	6194	1
Sb	121	0.111	ug/L	0.008	7	404	1741	6
Sb	123	0.110	ug/L	0.001	0	311	1310	1
Ba	135	0.010	ug/L	0.002	22	28	52	11
[Ba	137	0.005	ug/L	0.001	11	59	79	3
[> Tb	159		ug/L			396208	376554	0
Tl	205	-0.002	ug/L	0.001	37	204	132	17
Pb	208	0.053	ug/L	0.002	3	541	2673	2
Bi	209		ug/L			360078	333807	1
Th	232	0.053	ug/L	0.001	2	1275	3951	1
[U	238	-0.001	ug/L	0.000	73	173	129	20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:26:19

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	414232	0
[Be	9	-0.001	ug/L	0.003	236	3	2	49
C	13		mg/L			5302	18640	1
Cl	37		mg/L			2959467	4119614	0
[> Sc	45		ug/L			303483	281158	1
V-1	51	-0.371	ug/L	0.137	36	2787	-2398	75
V	51	0.650	ug/L	0.016	2	1908	10690	0
Cr	52	20.488	ug/L	0.301	1	8625	248074	2
Cr	53	22.333	ug/L	0.185	0	693	32218	1
Mn	55	19.981	ug/L	0.121	0	850	410160	1
Co	59	20.192	ug/L	0.130	0	161	312927	1
[> Ge	72		ug/L			439461	389935	0
Ni	60	20.663	ug/L	0.313	1	69	67097	2
Ni	62	23.840	ug/L	0.448	1	87	11771	2
Cu	63	20.437	ug/L	0.175	0	371	150719	1
Cu	65	20.565	ug/L	0.179	0	138	72751	1
Zn	66	24.028	ug/L	0.200	0	367	56682	1
Zn	67	21.763	ug/L	0.113	0	114	8749	0
Zn	68	22.727	ug/L	0.097	0	10988	47418	0
As-1	75	19.553	ug/L	0.149	0	-64	40458	0
As	75	19.708	ug/L	0.182	0	13015	52420	0
Se	82	-0.046	ug/L	0.023	49	0	-9	48
Se	78	0.692	ug/L	0.119	17	13279	12163	0
[Mo	98	420.049	ug/L	2.147	0	149	3278036	0
Y	89		ug/L			353401	323967	0
Kr	83		ug/L			96	105	4
[> In	115		ug/L			490660	438467	1
Ag	107	19.162	ug/L	0.193	1	207	284600	0
Cd	111	19.815	ug/L	0.137	0	247	71758	0
Cd	114	20.133	ug/L	0.075	0	24	171123	0
Sb	121	0.103	ug/L	0.006	5	404	1598	3
Sb	123	0.103	ug/L	0.005	5	311	1201	2
Ba	135	0.011	ug/L	0.003	25	28	53	12
[Ba	137	0.001	ug/L	0.002	183	59	57	14
[> Tb	159		ug/L			396208	379434	1
Tl	205	-0.004	ug/L	0.000	8	204	84	11
Pb	208	0.046	ug/L	0.000	1	541	2371	1
Bi	209		ug/L			360078	318793	0
Th	232	0.024	ug/L	0.003	14	1275	2469	6
[U	238	-0.001	ug/L	0.000	12	173	103	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:33:52

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	420024	0
[Be	9	48.286	ug/L	0.706	1	3	22752	1
C	13		mg/L			5302	4462	3
Cl	37		mg/L			2959467	2677656	0
> Sc	45		ug/L			303483	278026	1
V-1	51	49.314	ug/L	0.659	1	2787	658338	0
V	51	49.334	ug/L	0.726	1	1908	671511	0
Cr	52	49.391	ug/L	0.503	1	8625	580128	0
Cr	53	49.448	ug/L	0.654	1	693	69766	0
Mn	55	49.141	ug/L	0.117	0	850	996313	0
Co	59	49.795	ug/L	0.759	1	161	762835	0
> Ge	72		ug/L			439461	391027	0
Ni	60	49.779	ug/L	0.765	1	69	162000	1
Ni	62	49.671	ug/L	0.747	1	87	24509	0
Cu	63	49.990	ug/L	0.133	0	371	369214	1
Cu	65	50.086	ug/L	0.224	0	138	177496	0
Zn	66	50.202	ug/L	0.046	0	367	118400	0
Zn	67	49.590	ug/L	0.676	1	114	19861	0
Zn	68	49.587	ug/L	0.482	0	10988	92191	0
As-1	75	50.120	ug/L	0.209	0	-64	104087	0
As	75	49.848	ug/L	0.399	0	13015	115245	0
Se	82	51.561	ug/L	0.161	0	0	11148	0
Se	78	50.540	ug/L	0.825	1	13279	39670	0
Mo	98	51.879	ug/L	0.163	0	149	406108	0
Y	89		ug/L			353401	333589	0
Kr	83		ug/L			96	93	2
> In	115		ug/L			490660	452817	0
Ag	107	50.837	ug/L	0.612	1	207	779476	1
Cd	111	50.219	ug/L	0.610	1	247	187479	1
Cd	114	50.326	ug/L	0.241	0	24	441736	0
Sb	121	49.106	ug/L	0.255	0	404	607653	0
Sb	123	49.493	ug/L	0.144	0	311	458074	0
Ba	135	49.680	ug/L	0.289	0	28	133190	0
Ba	137	49.886	ug/L	0.202	0	59	223981	0
> Tb	159		ug/L			396208	395429	0
Tl	205	45.649	ug/L	0.208	0	204	1390633	0
Pb	208	45.814	ug/L	0.098	0	541	1943564	0
Bi	209		ug/L			360078	328565	0
Th	232	45.776	ug/L	0.258	0	1275	2484010	0
U	238	45.825	ug/L	0.478	1	173	2709965	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:41:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	414456	0
[Be	9	0.001	ug/L	0.002	110	3	4	17
C	13		mg/L			5302	4734	0
Cl	37		mg/L			2959467	2766767	0
[> Sc	45		ug/L			303483	278349	0
V-1	51	0.003	ug/L	0.006	186	2787	2598	2
V	51	0.018	ug/L	0.005	27	1908	1991	3
Cr	52	-0.007	ug/L	0.003	44	8625	7828	0
Cr	53	0.039	ug/L	0.030	78	693	690	6
Mn	55	-0.008	ug/L	0.003	43	850	622	11
[Co	59	-0.001	ug/L	0.003	334	161	133	38
[> Ge	72		ug/L			439461	397639	0
Ni	60	-0.001	ug/L	0.004	369	69	59	24
Ni	62	-0.014	ug/L	0.018	127	87	71	12
Cu	63	-0.005	ug/L	0.005	96	371	297	13
Cu	65	0.005	ug/L	0.013	275	138	142	33
Zn	66	-0.011	ug/L	0.005	43	367	305	3
Zn	67	-0.008	ug/L	0.043	523	114	100	17
Zn	68	-0.242	ug/L	0.017	7	10988	9532	0
As-1	75	0.001	ug/L	0.002	226	-64	-56	6
As	75	-0.014	ug/L	0.018	132	13015	11748	0
Se	82	0.041	ug/L	0.048	116	0	8	117
Se	78	-0.020	ug/L	0.119	603	13279	12004	0
[Mo	98	0.047	ug/L	0.015	32	149	512	24
Y	89		ug/L			353401	336041	0
Kr	83		ug/L			96	85	1
[> In	115		ug/L			490660	461630	0
Ag	107	0.008	ug/L	0.003	30	207	325	12
Cd	111	-0.003	ug/L	0.003	97	247	219	6
Cd	114	0.003	ug/L	0.003	89	24	54	51
Sb	121	0.024	ug/L	0.007	31	404	677	14
Sb	123	0.023	ug/L	0.009	37	311	511	16
Ba	135	0.001	ug/L	0.004	382	28	29	32
[Ba	137	0.001	ug/L	0.001	85	59	61	7
[> Tb	159		ug/L			396208	395828	0
Tl	205	0.004	ug/L	0.002	63	204	316	22
Pb	208	0.002	ug/L	0.004	195	541	622	26
Bi	209		ug/L			360078	337135	0
Th	232	0.038	ug/L	0.010	27	1275	3355	17
[U	238	0.005	ug/L	0.003	57	173	483	37

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF27 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:49:19

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	429435	1
[Be	9	-0.002	ug/L	0.003	108	3	2	50
C	13		mg/L			5302	6248	1
Cl	37		mg/L			2959467	2731789	0
> Sc	45		ug/L			303483	283175	0
V-1	51	0.014	ug/L	0.004	31	2787	2789	1
V	51	-0.005	ug/L	0.001	25	1908	1716	0
Cr	52	0.061	ug/L	0.012	20	8625	8768	1
Cr	53	0.000	ug/L	0.008	2036	693	648	2
Mn	55	-0.006	ug/L	0.002	28	850	673	5
Co	59	-0.007	ug/L	0.001	10	161	44	25
> Ge	72		ug/L			439461	392300	0
Ni	60	0.208	ug/L	0.013	6	69	740	5
Ni	62	0.221	ug/L	0.034	15	87	186	8
Cu	63	0.038	ug/L	0.004	9	371	610	4
Cu	65	0.036	ug/L	0.004	12	138	252	5
Zn	66	0.397	ug/L	0.008	2	367	1264	1
Zn	67	0.332	ug/L	0.045	13	114	235	7
Zn	68	0.384	ug/L	0.178	46	10988	10448	2
As-1	75	-0.025	ug/L	0.006	25	-64	-109	12
As	75	0.197	ug/L	0.036	18	13015	12030	0
Se	82	0.016	ug/L	0.014	88	0	3	91
Se	78	0.862	ug/L	0.124	14	13279	12330	0
Mo	98	0.058	ug/L	0.018	30	149	589	23
Y	89		ug/L			353401	338432	0
Kr	83		ug/L			96	88	3
> In	115		ug/L			490660	464995	0
Ag	107	-0.003	ug/L	0.001	16	207	148	5
Cd	111	0.000	ug/L	0.003	6276	247	234	3
Cd	114	-0.000	ug/L	0.001	115	24	19	24
Sb	121	-0.013	ug/L	0.002	18	404	216	14
Sb	123	-0.014	ug/L	0.002	17	311	164	14
Ba	135	0.014	ug/L	0.005	36	28	65	20
Ba	137	0.013	ug/L	0.003	26	59	115	12
> Tb	159		ug/L			396208	403439	0
Tl	205	-0.004	ug/L	0.000	5	204	76	9
Pb	208	-0.003	ug/L	0.000	16	541	441	3
Bi	209		ug/L			360078	339723	0
Th	232	0.002	ug/L	0.002	117	1275	1384	7
U	238	-0.002	ug/L	0.000	22	173	79	28

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF27 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 12:55:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	435198	0
[Be	9	-0.003	ug/L	0.001	44	3	2	34
C	13		mg/L			5302	6775	1
Cl	37		mg/L			2959467	2770694	0
[> Sc	45		ug/L			303483	289246	0
V-1	51	0.028	ug/L	0.003	11	2787	3046	1
V	51	-0.004	ug/L	0.002	40	1908	1761	1
Cr	52	0.073	ug/L	0.007	9	8625	9097	1
Cr	53	-0.030	ug/L	0.003	9	693	617	0
Mn	55	0.121	ug/L	0.002	1	850	3369	1
Co	59	-0.007	ug/L	0.001	8	161	50	16
[> Ge	72		ug/L			439461	397985	0
Ni	60	0.023	ug/L	0.005	19	69	140	10
Ni	62	-0.018	ug/L	0.026	145	87	70	18
Cu	63	0.041	ug/L	0.004	9	371	647	4
Cu	65	0.045	ug/L	0.005	9	138	289	5
Zn	66	0.605	ug/L	0.023	3	367	1782	3
Zn	67	0.523	ug/L	0.056	10	114	315	7
Zn	68	0.521	ug/L	0.090	17	10988	10832	0
As-1	75	-0.020	ug/L	0.001	6	-64	-100	3
As	75	0.101	ug/L	0.067	66	13015	12001	0
Se	82	0.026	ug/L	0.035	136	0	5	138
Se	78	0.490	ug/L	0.237	48	13279	12300	0
Mo	98	0.012	ug/L	0.001	10	149	232	3
Y	89		ug/L			353401	344650	0
Kr	83		ug/L			96	89	7
[> In	115		ug/L			490660	472095	0
Ag	107	-0.004	ug/L	0.001	16	207	136	7
Cd	111	-0.002	ug/L	0.005	248	247	230	7
Cd	114	-0.001	ug/L	0.001	55	24	12	48
Sb	121	-0.018	ug/L	0.001	3	404	158	5
Sb	123	-0.019	ug/L	0.001	3	311	114	5
Ba	135	0.024	ug/L	0.004	17	28	95	11
Ba	137	0.027	ug/L	0.003	10	59	181	6
[> Tb	159		ug/L			396208	404762	0
Tl	205	-0.005	ug/L	0.000	4	204	65	9
Pb	208	0.004	ug/L	0.001	13	541	732	3
Bi	209		ug/L			360078	344564	0
Th	232	0.005	ug/L	0.001	24	1275	1589	4
U	238	-0.002	ug/L	0.000	8	173	56	17

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF27 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:02:24

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	422656	0
[Be	9	24.970	ug/L	0.300	1	3	11841	1
C	13		mg/L			5302	7014	1
Cl	37		mg/L			2959467	2816260	0
> Sc	45		ug/L			303483	284746	0
V-1	51	25.649	ug/L	0.237	0	2787	351968	0
V	51	25.625	ug/L	0.364	1	1908	358106	1
Cr	52	26.023	ug/L	0.257	0	8625	316894	1
Cr	53	25.924	ug/L	0.214	0	693	37772	0
Mn	55	26.230	ug/L	0.217	0	850	545031	0
Co	59	26.722	ug/L	0.180	0	161	419369	0
> Ge	72		ug/L			439461	402142	0
Ni	60	26.337	ug/L	0.336	1	69	88180	1
Ni	62	26.835	ug/L	0.290	1	87	13655	1
Cu	63	27.529	ug/L	0.184	0	371	209255	0
Cu	65	27.469	ug/L	0.201	0	138	100172	0
Zn	66	81.776	ug/L	0.775	0	367	198136	1
Zn	67	74.659	ug/L	0.917	1	114	30700	1
Zn	68	79.856	ug/L	0.526	0	10988	146557	0
As-1	75	26.528	ug/L	0.128	0	-64	56630	0
As	75	26.165	ug/L	0.081	0	13015	67871	0
Se	82	83.315	ug/L	0.148	0	0	18526	0
Se	78	81.744	ug/L	0.333	0	13279	58489	0
[Mo	98	0.009	ug/L	0.002	25	149	212	9
Y	89		ug/L			353401	341772	0
Kr	83		ug/L			96	93	1
> In	115		ug/L			490660	464658	0
Ag	107	26.320	ug/L	0.255	0	207	414191	0
Cd	111	26.018	ug/L	0.270	1	247	99777	0
Cd	114	25.706	ug/L	0.033	0	24	231549	0
Sb	121	-0.014	ug/L	0.002	12	404	202	11
Sb	123	-0.015	ug/L	0.001	9	311	155	8
Ba	135	26.370	ug/L	0.250	0	28	72555	0
[Ba	137	26.369	ug/L	0.344	1	59	121505	0
> Tb	159		ug/L			396208	398968	0
Tl	205	24.773	ug/L	0.217	0	204	761493	0
Pb	208	25.027	ug/L	0.191	0	541	1071455	0
Bi	209		ug/L			360078	344850	0
Th	232	24.310	ug/L	0.292	1	1275	1331503	0
[U	238	24.220	ug/L	0.109	0	173	1445181	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF27 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:08:58

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	427994	0
[Be	9	24.489	ug/L	0.135	0	3	11760	0
C	13		mg/L			5302	7344	2
Cl	37		mg/L			2959467	2828902	0
[> Sc	45		ug/L			303483	292378	0
V-1	51	25.428	ug/L	0.292	1	2787	358303	0
V	51	25.321	ug/L	0.250	0	1908	363365	0
Cr	52	25.892	ug/L	0.322	1	8625	323775	0
Cr	53	25.530	ug/L	0.079	0	693	38205	0
Mn	55	25.920	ug/L	0.119	0	850	553029	0
Co	59	26.218	ug/L	0.115	0	161	422481	0
[> Ge	72		ug/L			439461	406282	0
Ni	60	26.607	ug/L	0.212	0	69	90003	1
Ni	62	26.744	ug/L	0.344	1	87	13748	0
Cu	63	27.483	ug/L	0.420	1	371	211046	1
Cu	65	27.598	ug/L	0.087	0	138	101679	0
Zn	66	78.020	ug/L	0.375	0	367	190995	0
Zn	67	72.426	ug/L	0.043	0	114	30091	0
Zn	68	76.901	ug/L	0.630	0	10988	142960	0
As-1	75	25.989	ug/L	0.191	0	-64	56049	0
As	75	25.603	ug/L	0.114	0	13015	67355	0
Se	82	79.138	ug/L	0.530	0	0	17778	0
Se	78	77.500	ug/L	0.762	0	13279	56661	0
[Mo	98	0.002	ug/L	0.003	128	149	157	15
Y	89		ug/L			353401	347285	0
Kr	83		ug/L			96	95	7
[> In	115		ug/L			490660	478141	0
Ag	107	25.993	ug/L	0.319	1	207	420905	0
Cd	111	25.380	ug/L	0.286	1	247	100162	0
Cd	114	25.167	ug/L	0.121	0	24	233264	0
Sb	121	-0.019	ug/L	0.001	7	404	145	13
Sb	123	-0.020	ug/L	0.001	3	311	107	7
Ba	135	25.720	ug/L	0.213	0	28	72820	0
[Ba	137	25.849	ug/L	0.249	0	59	122569	0
[> Tb	159		ug/L			396208	405724	0
Tl	205	24.523	ug/L	0.103	0	204	766607	0
Pb	208	24.719	ug/L	0.038	0	541	1076228	0
Bi	209		ug/L			360078	350086	0
Th	232	24.057	ug/L	0.210	0	1275	1340028	0
[U	238	24.003	ug/L	0.117	0	173	1456539	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF25 A REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:15:31

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	424142	0
[Be	9	-0.004	ug/L	0.001	36	3	1	43
C	13		mg/L			5302	6551	1
Cl	37		mg/L			2959467	2847654	0
> Sc	45		ug/L			303483	313120	1
V-1	51	2.873	ug/L	0.020	0	2787	45903	0
V	51	2.807	ug/L	0.017	0	1908	44895	0
Cr	52	0.033	ug/L	0.016	47	8625	9330	3
Cr	53	0.010	ug/L	0.008	75	693	731	2
Mn	55	44.716	ug/L	0.671	1	850	1021006	0
[Co	59	0.536	ug/L	0.004	0	161	9408	0
> Ge	72		ug/L			439461	401401	0
Ni	60	13.302	ug/L	0.138	1	69	44484	0
Ni	62	12.470	ug/L	0.246	1	87	6376	2
Cu	63	0.516	ug/L	0.005	1	371	4250	0
Cu	65	0.523	ug/L	0.012	2	138	2026	2
Zn	66	0.956	ug/L	0.019	1	367	2644	1
Zn	67	1.467	ug/L	0.027	1	114	704	2
Zn	68	1.101	ug/L	0.057	5	10988	11915	1
As-1	75	1.482	ug/L	0.020	1	-64	3101	1
As	75	1.237	ug/L	0.075	6	13015	14528	0
Se	82	0.649	ug/L	0.098	15	0	143	14
Se	78	-0.246	ug/L	0.300	121	13279	11989	0
[Mo	98	0.107	ug/L	0.004	3	149	997	2
Y	89		ug/L			353401	345860	0
Kr	83		ug/L			96	93	5
> In	115		ug/L			490660	464012	0
[Ag	107	0.004	ug/L	0.003	86	207	253	19
Cd	111	0.036	ug/L	0.007	20	247	370	7
Cd	114	0.024	ug/L	0.001	4	24	237	3
Sb	121	0.023	ug/L	0.003	14	404	677	6
Sb	123	0.025	ug/L	0.004	14	311	530	6
Ba	135	10.663	ug/L	0.077	0	28	29314	0
[Ba	137	10.705	ug/L	0.065	0	59	49297	0
> Tb	159		ug/L			396208	391605	0
Ti	205	0.006	ug/L	0.003	45	204	375	21
Pb	208	0.011	ug/L	0.002	15	541	1014	7
Bi	209		ug/L			360078	332499	0
Th	232	0.021	ug/L	0.006	28	1275	2403	14
[U	238	3.257	ug/L	0.002	0	173	190921	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF25 B REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:22:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	426016	0
[Be	9	-0.003	ug/L	0.004	123	3	2	91
C	13		mg/L			5302	6340	1
Cl	37		mg/L			2959467	2826802	0
> Sc	45		ug/L			303483	323285	0
V-1	51	0.043	ug/L	0.009	21	2787	3629	3
V	51	0.028	ug/L	0.009	32	1908	2468	5
Cr	52	-0.003	ug/L	0.008	271	8625	9149	1
Cr	53	-0.047	ug/L	0.009	18	693	662	2
Mn	55	210.955	ug/L	0.948	0	850	4970370	0
Co	59	0.037	ug/L	0.002	4	161	830	3
> Ge	72		ug/L			439461	400710	0
Ni	60	1.094	ug/L	0.052	4	69	3711	4
Ni	62	0.115	ug/L	0.018	15	87	137	6
Cu	63	0.149	ug/L	0.006	4	371	1468	3
Cu	65	0.130	ug/L	0.004	2	138	598	1
Zn	66	0.313	ug/L	0.012	3	367	1088	2
Zn	67	1.029	ug/L	0.021	2	114	524	1
Zn	68	0.894	ug/L	0.046	5	10988	11541	0
As-1	75	0.709	ug/L	0.012	1	-64	1450	1
As	75	0.596	ug/L	0.027	4	13015	13138	0
Se	82	0.369	ug/L	0.064	17	0	81	17
Se	78	-0.029	ug/L	0.113	392	13279	12092	0
Mo	98	0.089	ug/L	0.002	2	149	848	1
Y	89		ug/L			353401	344777	0
Kr	83		ug/L			96	93	11
> In	115		ug/L			490660	466288	0
Ag	107	-0.005	ug/L	0.001	17	207	123	10
Cd	111	0.014	ug/L	0.005	37	247	289	7
Cd	114	0.001	ug/L	0.000	71	24	29	14
Sb	121	-0.010	ug/L	0.000	3	404	252	2
Sb	123	-0.012	ug/L	0.001	7	311	177	4
Ba	135	30.117	ug/L	0.181	0	28	83153	0
Ba	137	30.247	ug/L	0.336	1	59	139867	1
> Tb	159		ug/L			396208	395685	0
Tl	205	-0.003	ug/L	0.001	33	204	105	32
Pb	208	0.002	ug/L	0.000	8	541	626	1
Bi	209		ug/L			360078	330701	0
Th	232	-0.000	ug/L	0.001	387	1275	1253	6
U	238	0.047	ug/L	0.000	0	173	2943	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF25 H REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:28:40

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	426679	0
[Be	9	-0.002	ug/L	0.003	111	3	2	50
C	13		mg/L			5302	6959	0
Cl	37		mg/L			2959467	2865029	0
> Sc	45		ug/L			303483	316699	1
V-1	51	2.684	ug/L	0.041	1	2787	43568	0
V	51	2.606	ug/L	0.039	1	1908	42286	0
Cr	52	0.037	ug/L	0.020	53	8625	9488	2
Cr	53	-0.039	ug/L	0.005	13	693	662	2
Mn	55	44.983	ug/L	0.395	0	850	1038924	1
[Co	59	0.531	ug/L	0.014	2	161	9440	1
> Ge	72		ug/L			439461	399671	1
Ni	60	13.561	ug/L	0.120	0	69	45152	0
Ni	62	12.871	ug/L	0.171	1	87	6549	0
Cu	63	0.496	ug/L	0.008	1	371	4078	1
Cu	65	0.509	ug/L	0.005	0	138	1967	0
Zn	66	1.383	ug/L	0.027	1	367	3659	2
Zn	67	1.838	ug/L	0.022	1	114	853	2
Zn	68	1.505	ug/L	0.040	2	10988	12549	1
As-1	75	1.188	ug/L	0.031	2	-64	2464	1
As	75	1.010	ug/L	0.075	7	13015	13981	0
Se	82	0.611	ug/L	0.042	6	0	134	5
Se	78	-0.036	ug/L	0.220	604	13279	12055	0
[Mo	98	0.111	ug/L	0.006	5	149	1023	3
Y	89		ug/L			353401	346467	1
Kr	83		ug/L			96	92	7
> In	115		ug/L			490660	465371	0
Ag	107	-0.006	ug/L	0.001	11	207	102	10
Cd	111	0.031	ug/L	0.007	21	247	352	7
Cd	114	0.022	ug/L	0.002	7	24	225	6
Sb	121	0.020	ug/L	0.001	6	404	642	2
Sb	123	0.017	ug/L	0.001	8	311	458	2
Ba	135	10.605	ug/L	0.057	0	28	29243	1
[Ba	137	10.671	ug/L	0.014	0	59	49282	0
> Tb	159		ug/L			396208	393754	0
Tl	205	-0.000	ug/L	0.001	164	204	190	10
Pb	208	0.004	ug/L	0.001	15	541	725	3
Bi	209		ug/L			360078	333114	0
Th	232	-0.007	ug/L	0.001	13	1275	863	6
[U	238	3.260	ug/L	0.010	0	173	192119	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF25 I REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:35:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	422892	0
[Be	9	-0.002	ug/L	0.003	114	3	2	50
C	13		mg/L			5302	6237	0
Cl	37		mg/L			2959467	2889799	0
> Sc	45		ug/L			303483	318279	1
V-1	51	0.043	ug/L	0.008	19	2787	3580	2
V	51	0.024	ug/L	0.004	17	1908	2374	1
Cr	52	-0.022	ug/L	0.012	52	8625	8749	0
Cr	53	-0.078	ug/L	0.016	20	693	602	3
Mn	55	201.359	ug/L	4.073	2	850	4669779	0
[Co	59	0.032	ug/L	0.003	7	161	732	6
> Ge	72		ug/L			439461	396564	0
Ni	60	0.998	ug/L	0.017	1	69	3353	1
Ni	62	0.121	ug/L	0.040	33	87	139	14
Cu	63	0.096	ug/L	0.006	6	371	1053	3
Cu	65	0.086	ug/L	0.006	7	138	434	4
Zn	66	0.564	ug/L	0.015	2	367	1677	1
Zn	67	1.214	ug/L	0.034	2	114	593	1
Zn	68	1.042	ug/L	0.170	16	10988	11671	2
As-1	75	0.648	ug/L	0.009	1	-64	1307	1
As	75	0.480	ug/L	0.043	8	13015	12756	0
Se	82	0.341	ug/L	0.033	9	0	74	9
Se	78	-0.287	ug/L	0.128	44	13279	11822	0
[Mo	98	0.084	ug/L	0.004	4	149	801	4
Y	89		ug/L			353401	338058	0
Kr	83		ug/L			96	88	5
> In	115		ug/L			490660	465205	0
Ag	107	-0.007	ug/L	0.001	12	207	81	18
Cd	111	0.000	ug/L	0.007	2738	247	235	11
Cd	114	-0.000	ug/L	0.001	215	24	19	47
Sb	121	-0.011	ug/L	0.001	4	404	245	2
Sb	123	-0.012	ug/L	0.002	13	311	183	7
Ba	135	28.627	ug/L	0.104	0	28	78858	0
[Ba	137	28.898	ug/L	0.104	0	59	133318	0
> Tb	159		ug/L			396208	386677	1
Ti	205	-0.005	ug/L	0.000	2	204	58	4
Pb	208	-0.000	ug/L	0.001	372	541	521	4
Bi	209		ug/L			360078	332511	0
Th	232	-0.009	ug/L	0.000	5	1275	778	2
[U	238	0.045	ug/L	0.002	4	173	2764	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:41:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	433702	0
[Be	9	-0.002	ug/L	0.004	245	3	2	65
C	13		mg/L			5302	9025	0
Cl	37		mg/L			2959467	2859489	0
> Sc	45		ug/L			303483	309713	0
V-1	51	0.784	ug/L	0.024	3	2787	14452	2
V	51	0.763	ug/L	0.024	3	1908	13489	2
Cr	52	0.565	ug/L	0.013	2	8625	16090	0
Cr	53	0.515	ug/L	0.011	2	693	1510	0
Mn	55	35.017	ug/L	0.386	1	850	791108	0
Co	59	0.112	ug/L	0.004	3	161	2069	2
> Ge	72		ug/L			439461	394224	0
Ni	60	2.023	ug/L	0.033	1	69	6698	1
Ni	62	1.584	ug/L	0.039	2	87	863	1
Cu	63	2.654	ug/L	0.048	1	371	20079	1
Cu	65	2.605	ug/L	0.034	1	138	9427	1
Zn	66	11.514	ug/L	0.178	1	367	27630	1
Zn	67	10.551	ug/L	0.074	0	114	4341	0
Zn	68	11.705	ug/L	0.380	3	10988	29470	2
As-1	75	0.882	ug/L	0.037	4	-64	1790	3
As	75	0.840	ug/L	0.010	1	13015	13436	0
Se	82	0.234	ug/L	0.047	20	0	50	20
Se	78	0.060	ug/L	0.139	231	13279	11946	1
Mo	98	0.387	ug/L	0.005	1	149	3187	0
Y	89		ug/L			353401	343655	0
Kr	83		ug/L			96	83	6
> In	115		ug/L			490660	465169	0
Ag	107	-0.001	ug/L	0.001	53	207	176	5
Cd	111	0.032	ug/L	0.006	18	247	358	5
Cd	114	0.016	ug/L	0.002	9	24	169	9
Sb	121	0.306	ug/L	0.003	0	404	4271	1
Sb	123	0.291	ug/L	0.003	0	311	3059	1
Ba	135	13.531	ug/L	0.083	0	28	37285	0
Ba	137	13.525	ug/L	0.143	1	59	62425	1
> Tb	159		ug/L			396208	400981	0
Tl	205	-0.002	ug/L	0.001	25	204	139	12
Pb	208	0.591	ug/L	0.006	0	541	25973	0
Bi	209		ug/L			360078	335793	0
Th	232	0.005	ug/L	0.001	21	1275	1554	3
U	238	0.037	ug/L	0.001	3	173	2370	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:48:27

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	430003	1
[Be	9	0.001	ug/L	0.001	134	3	4	17
C	13		mg/L			5302	8725	1
Cl	37		mg/L			2959467	2852934	0
[> Sc	45		ug/L			303483	308655	0
V-1	51	0.753	ug/L	0.011	1	2787	13956	1
V	51	0.755	ug/L	0.005	0	1908	13317	0
Cr	52	0.517	ug/L	0.015	2	8625	15425	1
Cr	53	0.537	ug/L	0.026	4	693	1538	2
Mn	55	38.122	ug/L	0.308	0	850	858282	1
[Co	59	0.111	ug/L	0.003	2	161	2058	2
[> Ge	72		ug/L			439461	393790	0
Ni	60	1.934	ug/L	0.028	1	69	6399	1
Ni	62	1.585	ug/L	0.034	2	87	863	1
Cu	63	2.714	ug/L	0.029	1	371	20500	0
Cu	65	2.657	ug/L	0.065	2	138	9600	1
Zn	66	11.443	ug/L	0.227	1	367	27432	1
Zn	67	10.513	ug/L	0.197	1	114	4321	2
Zn	68	11.345	ug/L	0.246	2	10988	28836	1
As-1	75	0.880	ug/L	0.024	2	-64	1784	3
As	75	0.810	ug/L	0.028	3	13015	13359	0
Se	82	0.164	ug/L	0.042	25	0	35	25
Se	78	-0.079	ug/L	0.150	190	13279	11855	0
[Mo	98	0.369	ug/L	0.002	0	149	3038	0
Y	89		ug/L			353401	342498	0
Kr	83		ug/L			96	91	7
[> In	115		ug/L			490660	463719	0
Ag	107	0.003	ug/L	0.001	43	207	149	13
Cd	111	0.025	ug/L	0.006	24	247	329	7
Cd	114	0.015	ug/L	0.000	3	24	160	2
Sb	121	0.291	ug/L	0.009	3	404	4066	3
Sb	123	0.293	ug/L	0.001	0	311	3074	1
Ba	135	13.401	ug/L	0.145	1	28	36812	0
[Ba	137	13.356	ug/L	0.074	0	59	61453	1
[> Tb	159		ug/L			396208	399971	1
Tl	205	-0.003	ug/L	0.000	5	204	115	5
Pb	208	0.579	ug/L	0.004	0	541	25363	1
Bi	209		ug/L			360078	335646	0
Th	232	0.001	ug/L	0.001	93	1275	1348	4
[U	238	0.035	ug/L	0.002	4	173	2271	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 13:55:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	422984	1
[Be	9	48.303	ug/L	0.137	0	3	22921	1
C	13		mg/L			5302	4650	3
Cl	37		mg/L			2959467	2956082	1
[> Sc	45		ug/L			303483	285722	0
V-1	51	49.005	ug/L	0.297	0	2787	672410	1
V	51	48.877	ug/L	0.212	0	1908	683803	1
Cr	52	49.149	ug/L	0.432	0	8625	593356	1
Cr	53	48.745	ug/L	0.130	0	693	70692	0
Mn	55	48.686	ug/L	0.431	0	850	1014426	1
Co	59	49.255	ug/L	0.199	0	161	775533	1
[> Ge	72		ug/L			439461	405196	0
Ni	60	48.804	ug/L	0.178	0	69	164588	0
Ni	62	48.905	ug/L	0.875	1	87	25008	1
Cu	63	49.389	ug/L	0.249	0	371	377993	0
Cu	65	49.453	ug/L	0.542	1	138	181610	1
Zn	66	49.852	ug/L	0.346	0	367	121836	0
Zn	67	50.153	ug/L	0.242	0	114	20814	0
Zn	68	49.523	ug/L	0.474	0	10988	95426	1
As-1	75	49.901	ug/L	0.200	0	-64	107389	0
As	75	49.515	ug/L	0.282	0	13015	118707	0
Se	82	50.738	ug/L	0.150	0	0	11367	0
Se	78	49.274	ug/L	0.466	0	13279	40387	0
[Mo	98	50.558	ug/L	0.737	1	149	410125	1
Y	89		ug/L			353401	335238	0
Kr	83		ug/L			96	93	8
[> In	115		ug/L			490660	462040	0
Ag	107	50.388	ug/L	0.373	0	207	788331	1
Cd	111	50.184	ug/L	0.222	0	247	191165	1
Cd	114	49.777	ug/L	0.173	0	24	445813	0
Sb	121	49.390	ug/L	0.240	0	404	623598	0
Sb	123	49.649	ug/L	0.170	0	311	468867	0
Ba	135	48.862	ug/L	0.460	0	28	133669	1
[Ba	137	49.153	ug/L	0.301	0	59	225182	0
[> Tb	159		ug/L			396208	385954	0
Tl	205	47.783	ug/L	0.133	0	204	1420764	0
Pb	208	48.086	ug/L	0.290	0	541	1991045	0
Bi	209		ug/L			360078	335969	0
Th	232	48.815	ug/L	0.400	0	1275	2585398	0
[U	238	48.363	ug/L	0.311	0	173	2791481	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:02:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	423938	0
[Be	9	0.000	ug/L	0.005	1760	3	3	66
C	13		mg/L			5302	4981	2
Cl	37		mg/L			2959467	2981260	1
> Sc	45		ug/L			303483	288676	0
V-1	51	0.009	ug/L	0.003	38	2787	2773	1
V	51	-0.022	ug/L	0.007	31	1908	1512	6
Cr	52	0.018	ug/L	0.009	47	8625	8421	0
Cr	53	-0.077	ug/L	0.025	32	693	548	7
Mn	55	-0.014	ug/L	0.002	17	850	521	10
Co	59	-0.003	ug/L	0.000	13	161	107	6
> Ge	72		ug/L			439461	402652	0
Ni	60	0.001	ug/L	0.002	281	69	66	12
Ni	62	-0.023	ug/L	0.018	75	87	67	13
Cu	63	-0.013	ug/L	0.002	16	371	240	7
Cu	65	-0.004	ug/L	0.005	101	138	110	15
Zn	66	-0.056	ug/L	0.008	14	367	201	9
Zn	67	-0.025	ug/L	0.013	50	114	94	5
Zn	68	-0.350	ug/L	0.027	7	10988	9468	0
As-1	75	-0.035	ug/L	0.010	29	-64	-132	16
As	75	0.010	ug/L	0.034	335	13015	11947	0
Se	82	-0.008	ug/L	0.028	349	0	-1	330
Se	78	0.160	ug/L	0.160	99	13279	12257	0
Mo	98	0.007	ug/L	0.005	75	149	192	22
Y	89		ug/L			353401	341684	0
Kr	83		ug/L			96	88	8
> In	115		ug/L			490660	471300	0
Ag	107	0.003	ug/L	0.005	157	207	245	30
Cd	111	0.011	ug/L	0.003	32	247	278	5
Cd	114	0.003	ug/L	0.002	60	24	54	34
Sb	121	0.012	ug/L	0.004	33	404	538	10
Sb	123	0.009	ug/L	0.008	89	311	386	20
Ba	135	-0.000	ug/L	0.003	10299	28	27	31
Ba	137	-0.001	ug/L	0.003	473	59	54	27
> Tb	159		ug/L			396208	396621	0
Tl	205	0.003	ug/L	0.002	88	204	281	23
Pb	208	-0.000	ug/L	0.003	721	541	522	25
Bi	209		ug/L			360078	341232	0
Th	232	0.022	ug/L	0.004	17	1275	2489	8
U	238	0.005	ug/L	0.002	48	173	457	29

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:10:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	429694	0
[Be	9	-0.005	ug/L	0.003	52	3	1	100
C	13		mg/L			5302	6249	2
Cl	37		mg/L			2959467	2989744	0
> Sc	45		ug/L			303483	293725	0
V-1	51	0.018	ug/L	0.010	56	2787	2954	4
V	51	-0.024	ug/L	0.003	10	1908	1497	1
Cr	52	0.057	ug/L	0.025	44	8625	9047	3
Cr	53	-0.078	ug/L	0.008	10	693	556	1
Mn	55	0.010	ug/L	0.001	8	850	1038	1
Co	59	-0.007	ug/L	0.000	2	161	46	5
> Ge	72		ug/L			439461	403904	0
Ni	60	0.007	ug/L	0.003	41	69	85	10
Ni	62	-0.008	ug/L	0.020	268	87	76	14
Cu	63	0.046	ug/L	0.001	3	371	692	1
Cu	65	0.050	ug/L	0.005	10	138	310	6
Zn	66	0.317	ug/L	0.025	7	367	1107	5
Zn	67	0.211	ug/L	0.055	25	114	192	11
Zn	68	0.009	ug/L	0.065	707	10988	10115	1
As-1	75	-0.030	ug/L	0.011	38	-64	-123	20
As	75	0.036	ug/L	0.019	50	13015	12040	0
Se	82	0.012	ug/L	0.021	180	0	-2	174
Se	78	0.257	ug/L	0.095	36	13279	12351	0
Mo	98	0.000	ug/L	0.005	3107	149	139	30
Y	89		ug/L			353401	344815	0
Kr	83		ug/L			96	92	2
> In	115		ug/L			490660	473715	0
Ag	107	-0.005	ug/L	0.001	16	207	127	8
Cd	111	0.006	ug/L	0.002	27	247	261	2
Cd	114	-0.001	ug/L	0.000	37	24	17	12
Sb	121	-0.015	ug/L	0.001	3	404	197	3
Sb	123	-0.017	ug/L	0.002	9	311	140	10
Ba	135	0.007	ug/L	0.003	43	28	48	18
Ba	137	0.005	ug/L	0.001	12	59	82	3
> Tb	159		ug/L			396208	394976	0
Tl	205	-0.004	ug/L	0.001	15	204	85	21
Pb	208	0.002	ug/L	0.001	62	541	608	8
Bi	209		ug/L			360078	345160	0
Th	232	0.004	ug/L	0.003	64	1275	1497	9
U	238	-0.001	ug/L	0.000	36	173	107	22

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:17:22

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	423118	0
[Be	9	Y -0.004	ug/L	0.002	37	3	1	43
C	13		mg/L			5302	6133	0
Cl	37		mg/L			2959467	3024591	0
[> Sc	45		ug/L			303483	289835	0
V-1	51	0.016	ug/L	0.004	26	2787	2878	1
V	51	-0.018	ug/L	0.002	9	1908	1572	1
Cr	52	Y 0.052	ug/L	0.015	28	8625	8869	2
Cr	53	Y -0.054	ug/L	0.020	38	693	584	5
Mn	55	-0.009	ug/L	0.001	7	850	615	1
Co	59	-0.007	ug/L	0.000	2	161	49	5
[> Ge	72		ug/L			439461	408148	0
Ni	60	Y 0.009	ug/L	0.001	11	69	96	3
Ni	62	Y -0.008	ug/L	0.016	200	87	76	10
Cu	63	0.020	ug/L	0.002	11	371	501	3
Cu	65	Y 0.031	ug/L	0.004	12	138	241	5
Zn	66	Y 0.945	ug/L	0.021	2	367	2661	1
Zn	67	Y 0.843	ug/L	0.018	2	114	457	1
Zn	68	Y 0.450	ug/L	0.041	9	10988	10985	0
As-1	75	-0.014	ug/L	0.014	96	-64	-90	33
As	75	Y -0.070	ug/L	0.052	73	13015	11935	0
Se	82	Y 0.051	ug/L	0.015	29	0	11	30
Se	78	Y -0.175	ug/L	0.133	76	13279	12232	0
[Mo	98	Y -0.008	ug/L	0.000	6	149	77	5
Y	89		ug/L			353401	342936	0
Kr	83		ug/L			96	86	1
[> In	115		ug/L			490660	472738	0
Ag	107	Y -0.006	ug/L	0.001	11	207	103	10
Cd	111	0.004	ug/L	0.002	45	247	253	2
Cd	114	Y -0.001	ug/L	0.000	9	24	17	3
Sb	121	Y -0.018	ug/L	0.002	11	404	162	15
Sb	123	Y -0.018	ug/L	0.001	4	311	129	6
Ba	135	Y 0.006	ug/L	0.001	13	28	45	5
Ba	137	Y 0.006	ug/L	0.002	43	59	83	12
[> Tb	159		ug/L			396208	393534	0
Tl	205	Y -0.004	ug/L	0.000	3	204	68	6
Pb	208	Y 0.106	ug/L	0.002	1	541	5021	0
Bi	209		ug/L			360078	346495	0
Th	232	-0.008	ug/L	0.001	12	1275	859	6
[U	238	-0.002	ug/L	0.000	2	173	53	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:24:35

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	434509	0
[Be	9	24.717	ug/L	0.062	0	3	12050	1
C	13		mg/L			5302	7797	0
Cl	37		mg/L			2959467	2962842	0
> Sc	45		ug/L			303483	290293	1
V-1	51	25.833	ug/L	0.249	0	2787	361365	0
V	51	25.829	ug/L	0.131	0	1908	367978	0
Cr	52	26.194	ug/L	0.201	0	8625	325113	0
Cr	53	26.158	ug/L	0.218	0	693	38852	1
Mn	55	26.332	ug/L	0.126	0	850	557790	0
[Co	59	26.791	ug/L	0.221	0	161	428627	0
> Ge	72		ug/L			439461	402975	0
Ni	60	27.208	ug/L	0.419	1	69	91279	1
Ni	62	27.188	ug/L	0.452	1	87	13861	1
Cu	63	28.203	ug/L	0.055	0	371	214813	0
Cu	65	28.042	ug/L	0.202	0	138	102468	0
Zn	66	82.432	ug/L	0.199	0	367	200137	0
Zn	67	75.719	ug/L	1.080	1	114	31197	0
Zn	68	81.142	ug/L	0.496	0	10988	149060	0
As-1	75	26.678	ug/L	0.434	1	-64	57067	1
As	75	26.234	ug/L	0.380	1	13015	68157	0
Se	82	83.336	ug/L	0.701	0	0	18568	0
Se	78	81.468	ug/L	0.720	0	13279	58451	0
[Mo	98	26.012	ug/L	0.126	0	149	209909	0
Y	89		ug/L			353401	342792	0
Kr	83		ug/L			96	94	4
> In	115		ug/L			490660	475992	0
Ag	107	26.300	ug/L	0.188	0	207	423973	0
Cd	111	26.201	ug/L	0.069	0	247	102933	0
Cd	114	25.840	ug/L	0.111	0	24	238430	0
Sb	121	24.445	ug/L	0.172	0	404	318158	0
Sb	123	24.639	ug/L	0.216	0	311	239846	0
Ba	135	25.981	ug/L	0.304	1	28	73229	0
[Ba	137	26.003	ug/L	0.325	1	59	122747	0
> Tb	159		ug/L			396208	404076	0
Tl	205	24.849	ug/L	0.208	0	204	773621	0
Pb	208	25.022	ug/L	0.173	0	541	1084981	0
Bi	209		ug/L			360078	349258	0
Th	232	24.346	ug/L	0.148	0	1275	1350611	0
[U	238	24.370	ug/L	0.140	0	173	1472801	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:31:06

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	426613	0
[Be	9	24.963	ug/L	0.516	2	3	11949	2
C	13		mg/L			5302	7396	0
Cl	37		mg/L			2959467	2976378	0
[> Sc	45		ug/L			303483	289563	0
V-1	51	25.960	ug/L	0.241	0	2787	362221	0
V	51	25.908	ug/L	0.179	0	1908	368176	0
Cr	52	26.291	ug/L	0.338	1	8625	325463	0
Cr	53	26.110	ug/L	0.122	0	693	38681	0
Mn	55	26.471	ug/L	0.344	1	850	559336	1
[Co	59	26.778	ug/L	0.378	1	161	427322	0
[> Ge	72		ug/L			439461	403996	0
Ni	60	27.217	ug/L	0.252	0	69	91547	1
Ni	62	26.692	ug/L	0.095	0	87	13645	0
Cu	63	28.032	ug/L	0.182	0	371	214049	0
Cu	65	28.003	ug/L	0.093	0	138	102589	0
Zn	66	82.643	ug/L	0.903	1	367	201147	0
Zn	67	75.496	ug/L	1.543	2	114	31183	1
Zn	68	81.181	ug/L	0.630	0	10988	149504	0
As-1	75	26.619	ug/L	0.148	0	-64	57086	0
As	75	26.193	ug/L	0.326	1	13015	68241	0
Se	82	82.995	ug/L	0.160	0	0	18540	0
Se	78	81.168	ug/L	0.848	1	13279	58428	0
[Mo	98	25.854	ug/L	0.066	0	149	209167	0
Y	89		ug/L			353401	343432	0
Kr	83		ug/L			96	89	3
[> In	115		ug/L			490660	469162	0
Ag	107	26.453	ug/L	0.277	1	207	420311	0
Cd	111	26.271	ug/L	0.417	1	247	101720	1
Cd	114	26.170	ug/L	0.174	0	24	238006	0
Sb	121	24.742	ug/L	0.190	0	404	317394	0
Sb	123	24.892	ug/L	0.064	0	311	238845	0
Ba	135	26.133	ug/L	0.296	1	28	72602	0
[Ba	137	26.204	ug/L	0.186	0	59	121923	0
[> Tb	159		ug/L			396208	398146	0
Tl	205	25.104	ug/L	0.146	0	204	770103	0
Pb	208	25.472	ug/L	0.200	0	541	1088285	0
Bi	209		ug/L			360078	348684	0
Th	232	24.935	ug/L	0.193	0	1275	1362939	0
[U	238	24.879	ug/L	0.082	0	173	1481453	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 HDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:37:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

REN

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	419311	0
[Be	9	<i>u</i> 0.008	ug/L	0.007	89	3	7	44
C	13		mg/L			5302	10282	1
Cl	37		mg/L			2959467	3001319	0
[> Sc	45		ug/L			303483	306538	0
V-1	51	0.919	ug/L	0.020	2	2787	16291	1
V	51	0.906	ug/L	0.018	1	1908	15497	1
Cr	52	<i>u</i> 0.318	ug/L	0.022	6	8625	12769	1
Cr	53	0.317	ug/L	0.016	5	693	1188	1
Mn	55	134.001	ug/L	2.021	1	850	2993898	1
Co	59	0.251	ug/L	0.008	3	161	4402	2
[> Ge	72		ug/L			439461	394010	0
Ni	60	1.654	ug/L	0.010	0	69	5483	0
Ni	62	0.662	ug/L	0.067	10	87	405	7
Cu	63	2.231	ug/L	0.020	0	371	16925	1
Cu	65	2.240	ug/L	0.042	1	138	8117	1
Zn	66	8.274	ug/L	0.035	0	367	19938	0
Zn	67	8.235	ug/L	0.218	2	114	3409	2
Zn	68	8.590	ug/L	0.102	1	10988	24237	0
As-1	75	1.121	ug/L	0.012	1	-64	2290	1
As	75	1.021	ug/L	0.062	6	13015	13809	0
Se	82	<i>u</i> 0.338	ug/L	0.040	11	0	73	11
Se	78	-0.024	ug/L	0.287	1204	13279	11892	1
[Mo	98	0.312	ug/L	0.008	2	149	2592	1
Y	89		ug/L			353401	345123	0
Kr	83		ug/L			96	89	6
[> In	115		ug/L			490660	457538	0
Ag	107	<i>u</i> 0.017	ug/L	0.002	11	207	450	6
Cd	111	0.064	ug/L	0.002	2	247	472	0
Cd	114	<i>u</i> 0.054	ug/L	0.001	1	24	499	1
Sb	121	<i>u</i> 0.154	ug/L	0.009	6	404	2301	4
Sb	123	0.155	ug/L	0.008	5	311	1734	4
Ba	135	28.871	ug/L	0.277	0	28	78219	0
[Ba	137	29.051	ug/L	0.334	1	59	131815	0
[> Tb	159		ug/L			396208	380999	0
Tl	205	<i>u</i> 0.010	ug/L	0.003	34	204	492	20
Pb	208	0.177	ug/L	0.004	2	541	7757	2
Bi	209		ug/L			360078	327463	0
Th	232	0.063	ug/L	0.014	22	1275	4519	15
[U	238	0.054	ug/L	0.003	4	173	3258	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:44:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

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Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	427567	1
> Be	9	0.003	ug/L	0.003	89	3	5	25
C	13		mg/L			5302	10237	0
Cl	37		mg/L			2959467	2927957	0
> Sc	45		ug/L			303483	306755	0
V-1	51	0.909	ug/L	0.021	2	2787	16154	2
V	51	0.892	ug/L	0.020	2	1908	15290	2
Cr	52	0.347	ug/L	0.011	3	8625	13159	1
Cr	53	0.330	ug/L	0.008	2	693	1210	1
Mn	55	132.779	ug/L	0.910	0	850	2968846	1
Co	59	0.279	ug/L	0.004	1	161	4885	1
> Ge	72		ug/L			439461	393529	1
Ni	60	1.731	ug/L	0.019	1	69	5730	1
Ni	62	0.653	ug/L	0.042	6	87	401	6
Cu	63	2.253	ug/L	0.044	1	371	17067	3
Cu	65	2.230	ug/L	0.019	0	138	8073	1
Zn	66	1.027	ug/L	0.041	4	367	2758	2
Zn	67	1.711	ug/L	0.057	3	114	788	3
Zn	68	1.341	ug/L	0.134	9	10988	12081	1
As-1	75	1.075	ug/L	0.021	1	-64	2190	2
As	75	0.982	ug/L	0.060	6	13015	13710	0
Se	82	0.275	ug/L	0.034	12	0	59	11
Se	78	-0.059	ug/L	0.193	325	13279	11857	0
Mo	98	0.295	ug/L	0.004	1	149	2458	1
Y	89		ug/L			353401	346568	0
Kr	83		ug/L			96	89	12
> In	115		ug/L			490660	454646	0
Ag	107	0.007	ug/L	0.000	4	207	305	1
Cd	111	0.063	ug/L	0.003	5	247	464	1
Cd	114	0.050	ug/L	0.001	2	24	460	2
Sb	121	0.139	ug/L	0.006	4	404	2097	3
Sb	123	0.143	ug/L	0.003	1	311	1619	1
Ba	135	28.704	ug/L	0.188	0	28	77275	0
Ba	137	28.928	ug/L	0.156	0	59	130428	0
> Tb	159		ug/L			396208	389112	1
Tl	205	0.003	ug/L	0.001	25	204	297	7
Pb	208	0.044	ug/L	0.001	2	541	2382	3
Bi	209		ug/L			360078	325714	0
Th	232	0.012	ug/L	0.003	21	1275	1915	8
U	238	0.047	ug/L	0.001	1	173	2889	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 HSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:50:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

RRZ

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	425347	0
[Be	9	26.598	ug/L	0.387	1	3	12694	1
C	13		mg/L			5302	10037	1
Cl	37		mg/L			2959467	2933075	0
[> Sc	45		ug/L			303483	305977	0
V-1	51	26.924	ug/L	0.550	2	2787	396841	1
V	51	26.946	ug/L	0.536	1	1908	404519	1
Cr	52	25.902	ug/L	0.212	0	8625	338961	0
Cr	53	26.035	ug/L	0.193	0	693	40757	0
Mn	55	167.095	ug/L	0.716	0	850	3726276	0
Co	59	26.175	ug/L	0.450	1	161	441374	1
[> Ge	72		ug/L			439461	390084	0
Ni	60	29.816	ug/L	0.304	1	69	96829	1
Ni	62	28.982	ug/L	0.514	1	87	14298	1
Cu	63	30.616	ug/L	0.482	1	371	225687	1
Cu	65	30.975	ug/L	0.478	1	138	109550	1
Zn	66	84.685	ug/L	1.787	2	367	199004	1
Zn	67	78.874	ug/L	0.931	1	114	31453	0
Zn	68	83.836	ug/L	1.059	1	10988	148754	0
As-1	75	29.367	ug/L	0.549	1	-64	60811	1
As	75	28.946	ug/L	0.404	1	13015	71602	0
Se	82	85.813	ug/L	1.329	1	0	18507	0
Se	78	84.014	ug/L	0.895	1	13279	57981	0
Mo	98	28.862	ug/L	0.534	1	149	225425	1
Y	89		ug/L			353401	345114	0
Kr	83		ug/L			96	87	8
[> In	115		ug/L			490660	452857	0
Ag	107	26.951	ug/L	0.229	0	207	413343	0
Cd	111	27.673	ug/L	0.395	1	247	103416	0
Cd	114	27.387	ug/L	0.174	0	24	240420	0
Sb	121	26.248	ug/L	0.166	0	404	324989	0
Sb	123	26.220	ug/L	0.282	1	311	242826	1
Ba	135	58.095	ug/L	0.618	1	28	155758	1
Ba	137	58.500	ug/L	0.581	0	59	262672	1
[> Tb	159		ug/L			396208	386953	0
Tl	205	26.121	ug/L	0.283	1	204	778763	0
Pb	208	26.163	ug/L	0.218	0	541	1086335	0
Bi	209		ug/L			360078	322302	0
Th	232	24.046	ug/L	0.259	1	1275	1277468	0
[U	238	26.192	ug/L	0.246	0	173	1515800	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 PDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 14:57:11

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	424247	1
[Be	9	0.006	ug/L	0.004	58	3	6	28
C	13		mg/L			5302	10139	0
Cl	37		mg/L			2959467	2961015	0
[> Sc	45		ug/L			303483	304868	0
V-1	51	0.811	ug/L	0.012	1	2787	14623	0
V	51	0.809	ug/L	0.006	0	1908	13957	0
Cr	52	0.284	ug/L	0.004	1	8625	12273	0
Cr	53	0.311	ug/L	0.013	4	693	1173	2
Mn	55	138.507	ug/L	0.980	0	850	3077713	0
Co	59	0.243	ug/L	0.002	0	161	4242	0
[> Ge	72		ug/L			439461	390884	0
Ni	60	1.591	ug/L	0.037	2	69	5235	2
Ni	62	0.577	ug/L	0.047	8	87	360	5
Cu	63	2.087	ug/L	0.052	2	371	15721	1
Cu	65	2.088	ug/L	0.034	1	138	7515	1
Zn	66	0.739	ug/L	0.010	1	367	2065	0
Zn	67	1.434	ug/L	0.015	1	114	673	1
Zn	68	0.948	ug/L	0.038	3	10988	11348	1
As-1	75	1.050	ug/L	0.014	1	-64	2124	0
As	75	0.918	ug/L	0.045	4	13015	13484	0
Se	82	0.333	ug/L	0.033	9	0	71	9
Se	78	-0.169	ug/L	0.102	60	13279	11718	0
Mo	98	0.282	ug/L	0.013	4	149	2335	4
Y	89		ug/L			353401	343561	0
Kr	83		ug/L			96	84	8
[> In	115		ug/L			490660	455001	0
Ag	107	0.003	ug/L	0.003	100	207	240	19
Cd	111	0.055	ug/L	0.008	13	247	435	5
Cd	114	0.043	ug/L	0.004	8	24	402	7
Sb	121	0.146	ug/L	0.005	3	404	2186	2
Sb	123	0.149	ug/L	0.006	4	311	1676	2
Ba	135	28.059	ug/L	0.462	1	28	75595	1
Ba	137	28.196	ug/L	0.396	1	59	127223	0
[> Tb	159		ug/L			396208	385138	0
Tl	205	0.008	ug/L	0.003	39	204	440	21
Pb	208	0.011	ug/L	0.003	23	541	995	10
Bi	209		ug/L			360078	327667	0
Th	232	0.033	ug/L	0.010	30	1275	2987	17
U	238	0.048	ug/L	0.004	8	173	2924	7

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 P REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:03:44

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	423113	0
[Be	9	0.000	ug/L	0.005	1318	3	3	57
C	13		mg/L			5302	10425	0
Cl	37		mg/L			2959467	2966434	0
> Sc	45		ug/L			303483	304851	0
V-1	51	0.844	ug/L	0.010	1	2787	15112	1
V	51	0.853	ug/L	0.014	1	1908	14612	1
Cr	52	0.308	ug/L	0.011	3	8625	12578	1
Cr	53	0.368	ug/L	0.032	8	693	1261	3
Mn	55	145.561	ug/L	1.367	0	850	3234219	0
Co	59	0.242	ug/L	0.005	2	161	4227	2
> Ge	72		ug/L			439461	388993	0
Ni	60	1.642	ug/L	0.025	1	69	5376	0
Ni	62	0.617	ug/L	0.046	7	87	379	6
Cu	63	1.858	ug/L	0.033	1	371	13969	1
Cu	65	1.841	ug/L	0.015	0	138	6607	1
Zn	66	1.045	ug/L	0.030	2	367	2770	2
Zn	67	1.757	ug/L	0.052	2	114	798	2
Zn	68	1.373	ug/L	0.052	3	10988	11996	0
As-1	75	1.143	ug/L	0.034	2	-64	2305	2
As	75	1.009	ug/L	0.036	3	13015	13608	0
Se	82	0.343	ug/L	0.019	5	0	73	5
Se	78	-0.130	ug/L	0.039	30	13279	11682	0
Mo	98	0.293	ug/L	0.001	0	149	2416	0
Y	89		ug/L			353401	338043	1
Kr	83		ug/L			96	91	8
> In	115		ug/L			490660	451262	0
Ag	107	-0.004	ug/L	0.000	8	207	133	3
Cd	111	0.046	ug/L	0.001	1	247	397	0
Cd	114	0.039	ug/L	0.001	3	24	364	3
Sb	121	0.142	ug/L	0.006	4	404	2122	3
Sb	123	0.148	ug/L	0.002	1	311	1651	1
Ba	135	29.596	ug/L	0.085	0	28	79085	0
Ba	137	29.499	ug/L	0.136	0	59	132013	0
> Tb	159		ug/L			396208	383233	0
Tl	205	0.004	ug/L	0.000	9	204	303	3
Pb	208	0.006	ug/L	0.001	12	541	758	3
Bi	209		ug/L			360078	322382	0
Th	232	0.005	ug/L	0.003	58	1275	1515	10
U	238	0.045	ug/L	0.001	1	173	2731	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 PSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:10:17

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	423914	0
[Be	9	25.314	ug/L	0.270	1	3	12040	1
C	13		mg/L			5302	9591	0
Cl	37		mg/L			2959467	2937743	0
> Sc	45		ug/L			303483	305372	0
V-1	51	25.872	ug/L	0.517	1	2787	380690	1
V	51	25.904	ug/L	0.504	1	1908	388178	1
Cr	52	25.065	ug/L	0.456	1	8625	327609	0
Cr	53	25.214	ug/L	0.413	1	693	39414	0
Mn	55	176.458	ug/L	1.956	1	850	3927046	0
Co	59	24.991	ug/L	0.482	1	161	420577	1
> Ge	72		ug/L			439461	385967	0
Ni	60	29.066	ug/L	0.319	1	69	93396	1
Ni	62	27.984	ug/L	0.837	2	87	13664	3
Cu	63	29.333	ug/L	0.213	0	371	213975	0
Cu	65	29.268	ug/L	0.298	1	138	102430	0
Zn	66	82.206	ug/L	1.086	1	367	191163	1
Zn	67	75.976	ug/L	2.041	2	114	29982	2
Zn	68	81.023	ug/L	0.345	0	10988	142576	0
As-1	75	28.304	ug/L	0.144	0	-64	57996	0
As	75	27.752	ug/L	0.098	0	13015	68399	0
Se	82	83.296	ug/L	0.735	0	0	17777	0
Se	78	81.045	ug/L	0.380	0	13279	55755	0
Mo	98	28.097	ug/L	0.322	1	149	217158	1
Y	89		ug/L			353401	340635	0
Kr	83		ug/L			96	94	6
> In	115		ug/L			490660	449265	0
Ag	107	25.813	ug/L	0.282	1	207	392768	0
Cd	111	26.581	ug/L	0.432	1	247	98554	1
Cd	114	26.366	ug/L	0.187	0	24	229621	0
Sb	121	25.518	ug/L	0.241	0	404	313456	0
Sb	123	25.542	ug/L	0.132	0	311	234678	0
Ba	135	57.432	ug/L	0.276	0	28	152761	0
Ba	137	57.632	ug/L	0.683	1	59	256729	1
> Tb	159		ug/L			396208	385218	0
Tl	205	24.915	ug/L	0.216	0	204	739456	0
Pb	208	24.970	ug/L	0.232	0	541	1032176	0
Bi	209		ug/L			360078	319747	0
Th	232	24.928	ug/L	0.187	0	1275	1318326	0
U	238	25.060	ug/L	0.407	1	173	1443674	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:16:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	421310	0
[Be	9	48.194	ug/L	0.219	0	3	22778	0
C	13		mg/L			5302	4828	1
Cl	37		mg/L			2959467	2972438	0
[> Sc	45		ug/L			303483	283314	0
| V-1	51	49.206	ug/L	0.256	0	2787	669453	0
| V	51	49.195	ug/L	0.239	0	1908	682421	0
| Cr	52	49.400	ug/L	0.008	0	8625	591291	0
| Cr	53	49.353	ug/L	0.923	1	693	70963	1
| Mn	55	48.797	ug/L	0.228	0	850	1008164	0
[Co	59	49.288	ug/L	0.735	1	161	769490	1
[> Ge	72		ug/L			439461	396268	0
| Ni	60	50.065	ug/L	0.460	0	69	165120	0
| Ni	62	50.211	ug/L	0.291	0	87	25108	0
| Cu	63	50.431	ug/L	0.266	0	371	377461	0
| Cu	65	50.369	ug/L	0.084	0	138	180893	0
| Zn	66	50.525	ug/L	0.150	0	367	120756	0
| Zn	67	51.252	ug/L	0.258	0	114	20799	0
| Zn	68	50.059	ug/L	0.521	1	10988	94227	0
| As-1	75	50.240	ug/L	0.269	0	-64	105735	0
| As	75	49.892	ug/L	0.249	0	13015	116887	0
| Se	82	51.312	ug/L	0.515	1	0	11243	0
| Se	78	49.988	ug/L	0.327	0	13279	39896	0
[Mo	98	51.178	ug/L	0.230	0	149	406004	0
Y	89		ug/L			353401	333352	0
Kr	83		ug/L			96	90	4
[> In	115		ug/L			490660	458230	0
| Ag	107	50.600	ug/L	0.246	0	207	785107	0
| Cd	111	50.511	ug/L	0.236	0	247	190819	0
| Cd	114	50.142	ug/L	0.558	1	24	445376	0
| Sb	121	48.888	ug/L	0.191	0	404	612186	0
| Sb	123	49.239	ug/L	0.230	0	311	461161	0
| Ba	135	48.408	ug/L	0.179	0	28	131332	0
[Ba	137	48.503	ug/L	0.260	0	59	220375	0
[> Tb	159		ug/L			396208	385558	1
| Tl	205	46.836	ug/L	0.470	1	204	1391060	0
| Pb	208	47.032	ug/L	0.275	0	541	1945364	0
| Bi	209		ug/L			360078	330711	0
| Th	232	47.977	ug/L	0.593	1	1275	2538201	0
[U	238	47.581	ug/L	0.300	0	173	2743473	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:24:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	416126	0
[Be	9	0.003	ug/L	0.007	225	3	5	66
C	13		mg/L			5302	5088	3
Cl	37		mg/L			2959467	3043181	0
[> Sc	45		ug/L			303483	281893	0
V-1	51	0.022	ug/L	0.012	57	2787	2879	4
V	51	-0.017	ug/L	0.006	37	1908	1538	4
Cr	52	0.036	ug/L	0.005	14	8625	8428	0
Cr	53	-0.086	ug/L	0.016	19	693	523	5
Mn	55	-0.013	ug/L	0.002	19	850	532	8
Co	59	-0.003	ug/L	0.001	24	161	97	12
[> Ge	72		ug/L			439461	401022	0
Ni	60	-0.001	ug/L	0.004	294	69	58	22
Ni	62	0.018	ug/L	0.013	75	87	88	7
Cu	63	-0.016	ug/L	0.003	19	371	219	10
Cu	65	-0.004	ug/L	0.005	113	138	112	13
Zn	66	-0.046	ug/L	0.001	1	367	223	1
Zn	67	-0.042	ug/L	0.017	39	114	87	7
Zn	68	-0.504	ug/L	0.069	13	10988	9167	0
As-1	75	-0.011	ug/L	0.014	125	-64	-82	35
As	75	0.001	ug/L	0.027	1920	13015	11879	0
Se	82	0.028	ug/L	0.011	41	0	6	42
Se	78	0.075	ug/L	0.150	199	13279	12159	0
[Mo	98	0.005	ug/L	0.004	75	149	180	18
Y	89		ug/L			353401	337555	0
Kr	83		ug/L			96	88	3
[> In	115		ug/L			490660	465353	0
Ag	107	0.007	ug/L	0.004	52	207	311	19
Cd	111	0.007	ug/L	0.003	43	247	262	4
Cd	114	0.004	ug/L	0.003	78	24	56	45
Sb	121	0.008	ug/L	0.008	94	404	487	20
Sb	123	0.008	ug/L	0.007	86	311	371	17
Ba	135	0.005	ug/L	0.005	104	28	40	33
[Ba	137	0.002	ug/L	0.006	255	59	66	38
[> Tb	159		ug/L			396208	382211	0
Tl	205	0.004	ug/L	0.003	84	204	301	29
Pb	208	0.001	ug/L	0.002	427	541	545	18
Bi	209		ug/L			360078	333984	0
Th	232	0.029	ug/L	0.007	22	1275	2760	12
[U	238	0.005	ug/L	0.003	62	173	472	40

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:31:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	415615	0
[Be	9	0.007	ug/L	0.002	22	3	6	10
C	13		mg/L			5302	7248	0
Cl	37		mg/L			2959467	2868033	0
[> Sc	45		ug/L			303483	326230	1
V-1	51	1.226	ug/L	0.008	0	2787	22124	1
V	51	1.187	ug/L	0.006	0	1908	20961	1
Cr	52	0.257	ug/L	0.012	4	8625	12771	1
Cr	53	0.198	ug/L	0.030	15	693	1070	5
Mn	55	174.809	ug/L	1.305	0	850	4156600	1
Co	59	0.248	ug/L	0.008	3	161	4633	3
[> Ge	72		ug/L			439461	384759	0
Ni	60	5.852	ug/L	0.082	1	69	18792	1
Ni	62	4.482	ug/L	0.071	1	87	2245	2
Cu	63	0.915	ug/L	0.007	0	371	6969	1
Cu	65	0.959	ug/L	0.021	2	138	3462	2
Zn	66	4.279	ug/L	0.018	0	367	10223	0
Zn	67	4.244	ug/L	0.034	0	114	1764	1
Zn	68	4.628	ug/L	0.186	4	10988	17188	1
As-1	75	0.733	ug/L	0.035	4	-64	1441	4
As	75	0.683	ug/L	0.058	8	13015	12792	1
Se	82	0.441	ug/L	0.003	0	0	93	1
Se	78	0.298	ug/L	0.124	41	13279	11788	1
Mo	98	0.148	ug/L	0.008	5	149	1271	5
Y	89		ug/L			353401	335204	0
Kr	83		ug/L			96	94	8
[> In	115		ug/L			490660	442020	0
Ag	107	0.001	ug/L	0.003	287	207	202	21
Cd	111	0.033	ug/L	0.004	12	247	343	4
Cd	114	0.023	ug/L	0.002	8	24	216	7
Sb	121	0.102	ug/L	0.001	1	404	1593	0
Sb	123	0.104	ug/L	0.001	0	311	1219	0
Ba	135	12.733	ug/L	0.093	0	28	33342	0
Ba	137	12.738	ug/L	0.037	0	59	55868	0
[> Tb	159		ug/L			396208	372258	0
Tl	205	0.002	ug/L	0.001	34	204	246	8
Pb	208	0.044	ug/L	0.001	1	541	2246	1
Bi	209		ug/L			360078	312958	0
Th	232	0.032	ug/L	0.006	18	1275	2836	11
U	238	0.746	ug/L	0.004	0	173	41668	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:37:54

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	413397	0
[Be	9	W -0.001	ug/L	0.002	119	3	2	24
C	13		mg/L			5302	7775	2
Cl	37		mg/L			2959467	2922848	0
> Sc	45		ug/L			303483	317026	0
V-1	51	0.231	ug/L	0.010	4	2787	6421	2
V	51	0.206	ug/L	0.005	2	1908	5188	1
Cr	52	0.192	ug/L	0.017	8	8625	11544	1
Cr	53	0.116	ug/L	0.006	5	693	910	1
Mn	55	2399.440	ug/L	20.828	0	850	55429233	0
Co	59	0.277	ug/L	0.010	3	161	4999	4
> Ge	72		ug/L			439461	391286	0
Ni	60	1.914	ug/L	0.027	1	69	6291	1
Ni	62	0.684	ug/L	0.012	1	87	414	1
Cu	63	1.258	ug/L	0.007	0	371	9617	0
Cu	65	1.287	ug/L	0.009	0	138	4682	0
Zn	66	1.321	ug/L	0.022	1	367	3436	1
Zn	67	1.544	ug/L	0.046	2	114	717	2
Zn	68	1.513	ug/L	0.072	4	10988	12300	1
As-1	75	0.566	ug/L	0.018	3	-64	1119	3
As	75	0.465	ug/L	0.038	8	13015	12555	0
Se	82	0.457	ug/L	0.055	11	0	98	11
Se	78	0.084	ug/L	0.087	103	13279	11870	0
Mo	98	0.504	ug/L	0.007	1	149	4079	1
Y	89		ug/L			353401	328656	0
Kr	83		ug/L			96	88	5
> In	115		ug/L			490660	445040	0
Ag	107	U -0.003	ug/L	0.001	17	207	140	5
Cd	111	0.016	ug/L	0.002	10	247	281	1
Cd	114	W 0.005	ug/L	0.001	14	24	62	9
Sb	121	0.050	ug/L	0.002	3	404	977	2
Sb	123	U 0.045	ug/L	0.003	6	311	690	3
Ba	135	17.371	ug/L	0.087	0	28	45790	1
Ba	137	17.411	ug/L	0.128	0	59	76866	0
> Tb	159		ug/L			396208	373846	1
Tl	205	U -0.003	ug/L	0.000	3	204	93	4
Pb	208	0.046	ug/L	0.002	4	541	2340	2
Bi	209		ug/L			360078	316115	0
Th	232	0.022	ug/L	0.001	4	1275	2308	3
U	238	0.026	ug/L	0.000	1	173	1619	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:44:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	404360	1
[Be	9	0.001	ug/L	0.005	665	3	3	57
C	13		mg/L			5302	6816	1
Cl	37		mg/L			2959467	2859114	0
> Sc	45		ug/L			303483	327740	1
V-1	51	0.079	ug/L	0.002	3	2787	4241	1
V	51	0.075	ug/L	0.004	5	1908	3257	1
Cr	52	-0.018	ug/L	0.002	12	8625	9069	2
Cr	53	-0.024	ug/L	0.019	80	693	710	4
Mn	55	163.191	ug/L	0.619	0	850	3898189	1
[Co	59	0.105	ug/L	0.005	4	161	2073	3
> Ge	72		ug/L			439461	381324	0
Ni	60	1.474	ug/L	0.024	1	69	4736	1
Ni	62	0.387	ug/L	0.030	7	87	261	5
Cu	63	0.351	ug/L	0.012	3	371	2849	3
Cu	65	0.299	ug/L	0.006	1	138	1152	2
Zn	66	0.635	ug/L	0.031	4	367	1774	3
Zn	67	1.338	ug/L	0.133	9	114	619	8
Zn	68	1.281	ug/L	0.078	6	10988	11611	1
As-1	75	13.584	ug/L	0.086	0	-64	27469	0
As	75	13.515	ug/L	0.129	0	13015	38702	0
Se	82	0.302	ug/L	0.015	4	0	63	5
Se	78	0.122	ug/L	0.170	138	13279	11588	0
[Mo	98	0.731	ug/L	0.014	1	149	5711	1
Y	89		ug/L			353401	321818	0
Kr	83		ug/L			96	91	4
> In	115		ug/L			490660	432676	0
Ag	107	-0.006	ug/L	0.000	5	207	93	5
Cd	111	0.010	ug/L	0.003	26	247	253	3
Cd	114	0.010	ug/L	0.002	20	24	103	15
Sb	121	-0.011	ug/L	0.002	15	404	228	8
Sb	123	-0.011	ug/L	0.001	7	311	176	4
Ba	135	29.270	ug/L	0.119	0	28	74990	0
[Ba	137	29.239	ug/L	0.327	1	59	125458	1
> Tb	159		ug/L			396208	363438	0
Tl	205	-0.004	ug/L	0.000	2	204	64	4
Pb	208	0.014	ug/L	0.002	16	541	1023	8
Bi	209		ug/L			360078	308160	0
Th	232	0.004	ug/L	0.001	33	1275	1368	5
[U	238	0.753	ug/L	0.006	0	173	41103	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:51:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	406775	0
[Be	9	0.003	ug/L	0.005	138	3	5	43
C	13		mg/L			5302	7284	2
Cl	37		mg/L			2959467	2886934	0
[> Sc	45		ug/L			303483	316762	0
V-1	51	0.831	ug/L	0.014	1	2787	15503	0
V	51	0.796	ug/L	0.009	1	1908	14299	0
Cr	52	0.083	ug/L	0.018	21	8625	10099	1
Cr	53	0.020	ug/L	0.014	67	693	756	3
Mn	55	1727.312	ug/L	20.302	1	850	39867976	0
Co	59	0.550	ug/L	0.009	1	161	9759	1
[> Ge	72		ug/L			439461	384630	1
Ni	60	3.610	ug/L	0.122	3	69	11611	2
Ni	62	2.444	ug/L	0.064	2	87	1258	1
Cu	63	0.407	ug/L	0.006	1	371	3278	2
Cu	65	0.407	ug/L	0.026	6	138	1537	4
Zn	66	0.632	ug/L	0.013	2	367	1783	1
Zn	67	1.359	ug/L	0.068	4	114	633	5
Zn	68	1.132	ug/L	0.142	12	10988	11466	0
As-1	75	5.037	ug/L	0.075	1	-64	10237	0
As	75	4.841	ug/L	0.162	3	13015	21291	0
Se	82	0.663	ug/L	0.062	9	0	140	9
Se	78	-0.031	ug/L	0.356	1148	13279	11604	0
[Mo	98	1.352	ug/L	0.010	0	149	10538	1
Y	89		ug/L			353401	333455	0
Kr	83		ug/L			96	90	7
[> In	115		ug/L			490660	435970	0
Ag	107	-0.005	ug/L	0.001	12	207	106	9
Cd	111	0.010	ug/L	0.003	28	247	255	3
Cd	114	0.002	ug/L	0.000	26	24	36	11
Sb	121	0.033	ug/L	0.004	11	404	751	6
Sb	123	0.036	ug/L	0.006	16	311	599	8
Ba	135	29.982	ug/L	0.186	0	28	77402	1
[Ba	137	30.032	ug/L	0.250	0	59	129838	0
[> Tb	159		ug/L			396208	364863	0
Tl	205	-0.005	ug/L	0.000	9	204	60	20
Pb	208	-0.003	ug/L	0.001	23	541	399	5
Bi	209		ug/L			360078	308776	0
Th	232	0.005	ug/L	0.001	26	1275	1441	5
[U	238	0.460	ug/L	0.002	0	173	25231	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 I REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 15:57:42

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	418527	1
[Be	9	0.001	ug/L	0.007	515	3	4	75
C	13		mg/L			5302	9311	2
Cl	37		mg/L			2959467	2931800	0
> Sc	45		ug/L			303483	296382	0
V-1	51	0.883	ug/L	0.018	2	2787	15239	1
V	51	0.880	ug/L	0.011	1	1908	14602	1
Cr	52	0.306	ug/L	0.002	0	8625	12205	0
Cr	53	0.334	ug/L	0.027	7	693	1175	3
Mn	55	136.374	ug/L	0.471	0	850	2946065	0
Co	59	0.254	ug/L	0.002	0	161	4311	0
> Ge	72		ug/L			439461	383074	0
Ni	60	1.641	ug/L	0.020	1	69	5289	0
Ni	62	0.621	ug/L	0.048	7	87	375	6
Cu	63	2.242	ug/L	0.029	1	371	16533	1
Cu	65	2.249	ug/L	0.026	1	138	7922	1
Zn	66	0.843	ug/L	0.033	3	367	2262	3
Zn	67	1.573	ug/L	0.037	2	114	713	2
Zn	68	1.093	ug/L	0.093	8	10988	11357	0
As-1	75	1.084	ug/L	0.018	1	-64	2151	1
As	75	0.970	ug/L	0.059	6	13015	13322	0
Se	82	0.318	ug/L	0.036	11	0	67	11
Se	78	-0.072	ug/L	0.251	349	13279	11536	0
Mo	98	0.290	ug/L	0.004	1	149	2352	1
Y	89		ug/L			353401	333410	0
Kr	83		ug/L			96	92	3
> In	115		ug/L			490660	439577	0
Ag	107	0.004	ug/L	0.001	26	207	244	5
Cd	111	0.057	ug/L	0.002	3	247	427	2
Cd	114	0.051	ug/L	0.004	7	24	455	6
Sb	121	0.137	ug/L	0.004	3	404	2005	1
Sb	123	0.139	ug/L	0.004	2	311	1528	2
Ba	135	28.556	ug/L	0.139	0	28	74330	0
Ba	137	28.669	ug/L	0.249	0	59	124975	0
> Tb	159		ug/L			396208	373666	0
Tl	205	0.001	ug/L	0.001	43	204	227	7
Pb	208	0.030	ug/L	0.001	2	541	1723	2
Bi	209		ug/L			360078	314898	0
Th	232	0.000	ug/L	0.001	1152	1275	1208	5
U	238	0.044	ug/L	0.000	1	173	2628	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 J REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:04:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	426585	0
[Be	9	0.001	ug/L	0.003	486	3	3	43
C	13		mg/L			5302	9070	2
Cl	37		mg/L			2959467	2891885	0
[> Sc	45		ug/L			303483	296636	0
V-1	51	0.650	ug/L	0.017	2	2787	11945	1
V	51	0.635	ug/L	0.021	3	1908	11061	2
Cr	52	0.476	ug/L	0.014	3	8625	14317	0
Cr	53	0.441	ug/L	0.031	6	693	1335	2
Mn	55	29.023	ug/L	0.182	0	850	628147	0
Co	59	0.092	ug/L	0.002	1	161	1659	0
[> Ge	72		ug/L			439461	379956	0
Ni	60	1.974	ug/L	0.004	0	69	6298	0
Ni	62	1.564	ug/L	0.108	6	87	822	5
Cu	63	2.512	ug/L	0.017	0	371	18334	0
Cu	65	2.543	ug/L	0.046	1	138	8871	1
Zn	66	11.178	ug/L	0.135	1	367	25862	0
Zn	67	10.259	ug/L	0.156	1	114	4071	1
Zn	68	11.149	ug/L	0.148	1	10988	27505	0
As-1	75	0.816	ug/L	0.012	1	-64	1591	1
As	75	0.692	ug/L	0.073	10	13015	12651	0
Se	82	0.225	ug/L	0.031	13	0	47	13
Se	78	-0.240	ug/L	0.295	123	13279	11352	1
Mo	98	0.386	ug/L	0.015	3	149	3066	3
Y	89		ug/L			353401	329360	0
Kr	83		ug/L			96	83	2
[> In	115		ug/L			490660	446660	0
Ag	107	-0.005	ug/L	0.001	26	207	118	15
Cd	111	0.021	ug/L	0.008	39	247	300	10
Cd	114	0.012	ug/L	0.001	4	24	122	3
Sb	121	0.296	ug/L	0.006	2	404	3976	1
Sb	123	0.302	ug/L	0.008	2	311	3035	2
Ba	135	13.221	ug/L	0.264	2	28	34979	1
Ba	137	13.255	ug/L	0.144	1	59	58741	0
[> Tb	159		ug/L			396208	383040	0
Tl	205	-0.003	ug/L	0.001	27	204	122	16
Pb	208	0.221	ug/L	0.003	1	541	9611	0
Bi	209		ug/L			360078	324573	0
Th	232	-0.003	ug/L	0.001	37	1275	1072	5
U	238	0.034	ug/L	0.000	0	173	2123	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 K REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:10:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	424592	0
[Be	9	✓ -0.001	ug/L	0.002	282	3	3	21
C	13		mg/L			5302	9035	1
Cl	37		mg/L			2959467	2883823	0
> Sc	45		ug/L			303483	293875	0
V-1	51	0.666	ug/L	0.008	1	2787	12066	0
V	51	0.655	ug/L	0.003	0	1908	11244	0
Cr	52	0.459	ug/L	0.031	6	8625	13974	2
Cr	53	0.436	ug/L	0.019	4	693	1316	2
Mn	55	30.794	ug/L	0.451	1	850	660238	1
Co	59	0.093	ug/L	0.002	2	161	1656	1
> Ge	72		ug/L			439461	379201	0
Ni	60	2.041	ug/L	0.038	1	69	6498	1
Ni	62	1.642	ug/L	0.059	3	87	858	3
Cu	63	2.342	ug/L	0.044	1	371	17081	1
Cu	65	2.316	ug/L	0.038	1	138	8073	1
Zn	66	10.293	ug/L	0.081	0	367	23794	0
Zn	67	9.408	ug/L	0.277	2	114	3734	2
Zn	68	10.004	ug/L	0.213	2	10988	25606	1
As-1	75	0.829	ug/L	0.012	1	-64	1615	1
As	75	0.684	ug/L	0.044	6	13015	12610	0
Se	82	0.192	ug/L	0.036	18	0	40	18
Se	78	✓ -0.345	ug/L	0.116	33	13279	11273	0
Mo	98	0.383	ug/L	0.013	3	149	3037	3
Y	89		ug/L			353401	325352	0
Kr	83		ug/L			96	84	6
> In	115		ug/L			490660	445601	0
Ag	107	✓ -0.006	ug/L	0.001	13	207	98	12
Cd	111	0.022	ug/L	0.006	27	247	303	7
Cd	114	0.011	ug/L	0.001	8	24	119	6
Sb	121	0.303	ug/L	0.011	3	404	4048	2
Sb	123	0.306	ug/L	0.009	3	311	3069	3
Ba	135	13.331	ug/L	0.260	1	28	35186	1
Ba	137	13.292	ug/L	0.078	0	59	58765	0
> Tb	159		ug/L			396208	381591	0
Tl	205	✓ -0.003	ug/L	0.000	10	204	95	10
Pb	208	0.229	ug/L	0.001	0	541	9897	0
Bi	209		ug/L			360078	324983	0
Th	232	-0.004	ug/L	0.001	15	1275	1015	3
U	238	0.036	ug/L	0.000	0	173	2216	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 L REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:17:31

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	421110	0
[Be	9	✓ -0.001	ug/L	0.003	222	3	2	49
C	13		mg/L			5302	7481	1
Cl	37		mg/L			2959467	2809654	1
[> Sc	45		ug/L			303483	321935	0
V-1	51	1.083	ug/L	0.010	0	2787	19637	0
V	51	1.036	ug/L	0.009	0	1908	18305	0
Cr	52	✓ 0.210	ug/L	0.013	6	8625	11967	1
Cr	53	✓ 0.118	ug/L	0.003	2	693	926	0
Mn	55	136.380	ug/L	1.613	1	850	3200206	1
Co	59	0.112	ug/L	0.004	3	161	2166	3
[> Ge	72		ug/L			439461	376143	0
Ni	60	6.033	ug/L	0.177	2	69	18939	2
Ni	62	4.502	ug/L	0.103	2	87	2204	2
Cu	63	0.806	ug/L	0.005	0	371	6036	1
Cu	65	0.857	ug/L	0.006	0	138	3038	0
Zn	66	✓ 0.921	ug/L	0.023	2	367	2398	1
Zn	67	✓ 1.161	ug/L	0.015	1	114	542	1
Zn	68	1.176	ug/L	0.153	13	10988	11284	1
As-1	75	0.613	ug/L	0.014	2	-64	1170	2
As	75	0.468	ug/L	0.047	9	13015	12075	0
Se	82	0.336	ug/L	0.035	10	0	69	9
Se	78	✓ -0.181	ug/L	0.215	118	13279	11269	0
Mo	98	0.138	ug/L	0.005	3	149	1169	3
Y	89		ug/L			353401	329674	0
Kr	83		ug/L			96	88	6
[> In	115		ug/L			490660	432599	0
Ag	107	✓ -0.007	ug/L	0.000	5	207	79	7
Cd	111	✓ 0.030	ug/L	0.005	15	247	323	5
Cd	114	0.018	ug/L	0.003	14	24	172	12
Sb	121	0.089	ug/L	0.003	3	404	1403	3
Sb	123	✓ 0.097	ug/L	0.004	3	311	1134	3
Ba	135	12.817	ug/L	0.107	0	28	32845	0
Ba	137	12.771	ug/L	0.093	0	59	54818	0
[> Tb	159		ug/L			396208	370669	0
Tl	205	✓ -0.001	ug/L	0.000	18	204	150	5
Pb	208	0.005	ug/L	0.001	22	541	693	5
Bi	209		ug/L			360078	309745	1
Th	232	-0.011	ug/L	0.001	9	1275	627	7
U	238	0.775	ug/L	0.014	1	173	43130	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 M REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:24:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	424926	0
[Be	9	~ -0.004	ug/L	0.003	74	3	1	86
C	13		mg/L			5302	7956	1
Cl	37		mg/L			2959467	2873017	0
> Sc	45		ug/L			303483	311956	0
| V-1	51	0.148	ug/L	0.018	12	2787	5068	4
| V	51	0.124	ug/L	0.003	2	1908	3847	0
| Cr	52	0.153	ug/L	0.013	8	8625	10857	0
| Cr	53	~ 0.078	ug/L	0.041	52	693	836	8
| Mn	55	2361.011	ug/L	15.266	0	850	53669251	0
[Co	59	0.263	ug/L	0.006	2	161	4679	1
> Ge	72		ug/L			439461	384395	0
| Ni	60	1.909	ug/L	0.021	1	69	6164	0
| Ni	62	0.662	ug/L	0.048	7	87	396	6
| Cu	63	1.131	ug/L	0.008	0	371	8530	1
| Cu	65	1.168	ug/L	0.023	1	138	4187	2
| Zn	66	1.107	ug/L	0.040	3	367	2881	3
| Zn	67	~ 1.301	ug/L	0.040	3	114	609	1
| Zn	68	1.289	ug/L	0.035	2	10988	11716	0
| As-1	75	0.354	ug/L	0.006	1	-64	667	2
| As	75	0.145	ug/L	0.043	29	13015	11680	0
| Se	82	0.389	ug/L	0.019	4	0	82	4
| Se	78	~ -0.366	ug/L	0.176	48	13279	11416	0
[Mo	98	0.490	ug/L	0.015	3	149	3898	2
| Y	89		ug/L			353401	326209	0
| Kr	83		ug/L			96	91	4
> In	115		ug/L			490660	442245	0
| Ag	107	~ -0.007	ug/L	0.000	3	207	76	4
| Cd	111	0.013	ug/L	0.006	43	247	268	7
| Cd	114	~ 0.005	ug/L	0.001	29	24	63	19
| Sb	121	0.041	ug/L	0.004	8	404	855	4
| Sb	123	~ 0.036	ug/L	0.000	0	311	609	0
| Ba	135	16.383	ug/L	0.136	0	28	42915	1
[Ba	137	16.405	ug/L	0.180	1	59	71971	1
> Tb	159		ug/L			396208	376373	0
| Tl	205	~ -0.004	ug/L	0.000	5	204	84	8
| Pb	208	0.000	ug/L	0.001	2114	541	515	6
| Bi	209		ug/L			360078	315472	0
| Th	232	-0.008	ug/L	0.001	7	1275	784	3
[U	238	0.024	ug/L	0.001	4	173	1509	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 N REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:30:35

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	425494	0
[Be	9	~ -0.001	ug/L	0.002	104	3	2	24
C	13		mg/L			5302	6950	1
Cl	37		mg/L			2959467	2815356	0
> Sc	45		ug/L			303483	330391	0
V-1	51	0.043	ug/L	0.011	25	2787	3714	4
V	51	0.035	ug/L	0.003	9	1908	2640	1
Cr	52	-0.071	ug/L	0.003	4	8625	8418	0
Cr	53	~ -0.089	ug/L	0.031	35	693	607	8
Mn	55	128.563	ug/L	1.992	1	850	3095823	1
Co	59	0.073	ug/L	0.003	4	161	1504	3
> Ge	72		ug/L			439461	380065	0
Ni	60	1.380	ug/L	0.019	1	69	4423	1
Ni	62	~ 0.356	ug/L	0.030	8	87	245	5
Cu	63	0.271	ug/L	0.014	5	371	2266	3
Cu	65	~ 0.232	ug/L	0.007	2	138	920	3
Zn	66	0.686	ug/L	0.024	3	367	1886	3
Zn	67	~ 1.229	ug/L	0.042	3	114	575	2
Zn	68	1.153	ug/L	0.079	6	10988	11366	1
As-1	75	12.980	ug/L	0.040	0	-64	26158	0
As	75	12.776	ug/L	0.009	0	13015	37081	0
Se	82	0.240	ug/L	0.015	6	0	50	6
Se	78	~ -0.483	ug/L	0.118	24	13279	11225	0
Mo	98	0.690	ug/L	0.022	3	149	5379	3
Y	89		ug/L			353401	325227	0
Kr	83		ug/L			96	84	5
> In	115		ug/L			490660	434897	0
Ag	107	~ -0.008	ug/L	0.001	10	207	65	20
Cd	111	0.003	ug/L	0.005	176	247	229	8
Cd	114	~ 0.003	ug/L	0.001	51	24	45	26
Sb	121	-0.013	ug/L	0.002	17	404	207	13
Sb	123	~ -0.014	ug/L	0.001	6	311	154	4
Ba	135	27.997	ug/L	0.416	1	28	72097	1
Ba	137	27.911	ug/L	0.141	0	59	120379	0
> Tb	159		ug/L			396208	374640	0
Tl	205	~ -0.004	ug/L	0.000	2	204	72	3
Pb	208	0.002	ug/L	0.001	55	541	607	8
Bi	209		ug/L			360078	313510	0
Th	232	-0.012	ug/L	0.001	8	1275	607	8
U	238	0.708	ug/L	0.004	0	173	39832	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:37:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	426248	0
[Be	9	48.375	ug/L	0.486	1	3	23131	0
C	13		mg/L			5302	4794	1
Cl	37		mg/L			2959467	2948735	0
> Sc	45		ug/L			303483	281439	1
V-1	51	48.919	ug/L	0.352	0	2787	661130	0
V	51	48.910	ug/L	0.475	0	1908	673954	0
Cr	52	49.012	ug/L	0.305	0	8625	582817	1
Cr	53	48.978	ug/L	0.321	0	693	69959	0
Mn	55	48.740	ug/L	0.315	0	850	1000269	0
[Co	59	49.126	ug/L	0.425	0	161	761841	0
> Ge	72		ug/L			439461	393635	0
Ni	60	48.981	ug/L	0.450	0	69	160472	1
Ni	62	48.666	ug/L	0.757	1	87	24176	1
Cu	63	49.885	ug/L	0.376	0	371	370891	0
Cu	65	49.622	ug/L	0.502	1	138	177031	1
Zn	66	50.559	ug/L	0.204	0	367	120034	0
Zn	67	49.814	ug/L	1.047	2	114	20085	2
Zn	68	49.544	ug/L	0.656	1	10988	92739	1
As-1	75	49.905	ug/L	0.122	0	-64	104334	0
As	75	49.437	ug/L	0.066	0	13015	115158	0
Se	82	50.222	ug/L	0.195	0	0	10931	0
Se	78	48.468	ug/L	0.434	0	13279	38787	0
[Mo	98	51.386	ug/L	0.466	0	149	404943	0
Y	89		ug/L			353401	329709	0
Kr	83		ug/L			96	93	10
> In	115		ug/L			490660	456079	0
Ag	107	50.002	ug/L	0.448	0	207	772156	0
Cd	111	50.574	ug/L	0.501	0	247	190153	0
Cd	114	49.973	ug/L	0.485	0	24	441785	0
Sb	121	49.213	ug/L	0.347	0	404	613343	0
Sb	123	49.811	ug/L	0.212	0	311	464325	0
Ba	135	48.576	ug/L	0.212	0	28	131167	0
[Ba	137	48.972	ug/L	0.412	0	59	221452	0
> Tb	159		ug/L			396208	384786	0
Tl	205	47.380	ug/L	0.239	0	204	1404494	0
Pb	208	47.480	ug/L	0.082	0	541	1960025	0
Bi	209		ug/L			360078	332445	0
Th	232	48.828	ug/L	0.342	0	1275	2578234	0
[U	238	48.573	ug/L	0.201	0	173	2795175	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:44:19

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	428324	1
[Be	9	0.026	ug/L	0.036	139	3	16	109
C	13		mg/L			5302	5039	1
Cl	37		mg/L			2959467	2927790	0
> Sc	45		ug/L			303483	280362	1
V-1	51	0.036	ug/L	0.024	65	2787	3063	10
V	51	0.009	ug/L	0.036	387	1908	1890	26
Cr	52	0.043	ug/L	0.025	58	8625	8476	3
Cr	53	-0.042	ug/L	0.063	152	693	582	15
Mn	55	0.049	ug/L	0.046	93	850	1782	52
Co	59	0.028	ug/L	0.034	120	161	584	89
> Ge	72		ug/L			439461	390126	0
Ni	60	0.024	ug/L	0.029	122	69	140	69
Ni	62	0.021	ug/L	0.053	246	87	87	30
Cu	63	0.018	ug/L	0.038	216	371	461	62
Cu	65	0.026	ug/L	0.034	130	138	215	56
Zn	66	-0.018	ug/L	0.029	158	367	283	24
Zn	67	-0.007	ug/L	0.025	381	114	99	10
Zn	68	-0.474	ug/L	0.146	30	10988	8967	1
As-1	75	0.001	ug/L	0.020	2531	-64	-55	73
As	75	-0.016	ug/L	0.076	486	13015	11521	0
Se	82	0.025	ug/L	0.008	30	0	5	31
Se	78	-0.032	ug/L	0.328	1025	13279	11769	0
Mo	98	0.047	ug/L	0.036	76	149	504	57
Y	89		ug/L			353401	332446	1
Kr	83		ug/L			96	86	6
> In	115		ug/L			490660	457439	0
Ag	107	0.038	ug/L	0.031	81	207	788	61
Cd	111	0.037	ug/L	0.033	91	247	368	34
Cd	114	0.033	ug/L	0.034	105	24	314	97
Sb	121	0.067	ug/L	0.049	74	404	1208	51
Sb	123	0.070	ug/L	0.059	84	311	944	59
Ba	135	0.035	ug/L	0.034	97	28	122	76
Ba	137	0.033	ug/L	0.034	103	59	203	75
> Tb	159		ug/L			396208	388066	1
Tl	205	0.034	ug/L	0.027	80	204	1220	68
Pb	208	0.031	ug/L	0.031	100	541	1826	72
Bi	209		ug/L			360078	335533	0
Th	232	0.118	ug/L	0.069	58	1275	7555	49
U	238	0.042	ug/L	0.038	91	173	2614	86

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 A RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:51:30

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	428786	0
[Be	9	0.002	ug/L	0.012	622	3	4	125
C	13		mg/L			5302	10137	0
Cl	37		mg/L			2959467	2818874	0
[> Sc	45		ug/L			303483	332628	0
V-1	51	1.642	ug/L	0.004	0	2787	29184	0
V	51	1.621	ug/L	0.019	1	1908	28416	1
Cr	52	1.084	ug/L	0.023	2	8625	24481	1
Cr	53	1.052	ug/L	0.072	6	693	2520	4
Mn	55	76.703	ug/L	0.597	0	850	1860014	0
Co	59	0.246	ug/L	0.008	3	161	4689	3
[> Ge	72		ug/L			439461	381136	0
Ni	60	4.812	ug/L	0.096	2	69	15319	2
Ni	62	3.908	ug/L	0.085	2	87	1949	2
Cu	63	6.538	ug/L	0.042	0	371	47347	1
Cu	65	6.543	ug/L	0.063	0	138	22705	0
Zn	66	25.816	ug/L	0.186	0	367	59500	0
Zn	67	24.165	ug/L	0.266	1	114	9484	0
Zn	68	26.019	ug/L	0.195	0	10988	51681	0
As-1	75	2.219	ug/L	0.033	1	-64	4439	0
As	75	2.027	ug/L	0.038	1	13015	15396	0
Se	82	0.519	ug/L	0.059	11	0	109	11
Se	78	-0.197	ug/L	0.134	68	13279	11411	1
[Mo	98	0.950	ug/L	0.009	0	149	7374	1
Y	89		ug/L			353401	336072	0
Kr	83		ug/L			96	84	2
[> In	115		ug/L			490660	445070	0
Ag	107	0.014	ug/L	0.005	34	207	399	18
Cd	111	0.067	ug/L	0.003	4	247	469	2
Cd	114	0.040	ug/L	0.006	15	24	370	15
Sb	121	0.724	ug/L	0.009	1	404	9171	0
Sb	123	0.721	ug/L	0.010	1	311	6833	1
Ba	135	32.430	ug/L	0.370	1	28	85469	1
[Ba	137	32.396	ug/L	0.176	0	59	142986	1
[> Tb	159		ug/L			396208	381060	1
Tl	205	0.007	ug/L	0.006	75	204	416	40
Pb	208	1.231	ug/L	0.011	0	541	50814	1
Bi	209		ug/L			360078	321976	1
Th	232	0.110	ug/L	0.039	35	1275	6990	30
[U	238	0.096	ug/L	0.005	5	173	5637	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 B RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 16:58:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	421937	1
[Be	9	0.012	ug/L	0.008	70	3	9	43
C	13		mg/L			5302	10152	0
Cl	37		mg/L			2959467	2872090	0
> Sc	45		ug/L			303483	328154	1
V-1	51	1.686	ug/L	0.019	1	2787	29478	2
V	51	1.720	ug/L	0.030	1	1908	29638	2
Cr	52	1.103	ug/L	0.007	0	8625	24408	1
Cr	53	1.248	ug/L	0.041	3	693	2809	3
Mn	55	87.406	ug/L	0.888	1	850	2090771	0
Co	59	0.260	ug/L	0.005	1	161	4876	2
> Ge	72		ug/L			439461	378771	0
Ni	60	4.827	ug/L	0.056	1	69	15271	0
Ni	62	3.983	ug/L	0.132	3	87	1973	4
Cu	63	6.596	ug/L	0.095	1	371	47466	1
Cu	65	6.589	ug/L	0.075	1	138	22719	0
Zn	66	25.915	ug/L	0.192	0	367	59354	0
Zn	67	24.096	ug/L	0.304	1	114	9399	1
Zn	68	26.313	ug/L	0.198	0	10988	51834	0
As-1	75	2.235	ug/L	0.018	0	-64	4442	0
As	75	1.995	ug/L	0.026	1	13015	15236	0
Se	82	0.529	ug/L	0.054	10	0	110	10
Se	78	-0.371	ug/L	0.060	16	13279	11247	1
Mo	98	0.962	ug/L	0.019	1	149	7421	2
Y	89		ug/L			353401	333300	1
Kr	83		ug/L			96	82	7
> In	115		ug/L			490660	440207	1
Ag	107	0.012	ug/L	0.003	21	207	357	11
Cd	111	0.045	ug/L	0.014	29	247	386	12
Cd	114	0.039	ug/L	0.002	5	24	356	4
Sb	121	0.777	ug/L	0.011	1	404	9706	1
Sb	123	0.782	ug/L	0.007	0	311	7315	1
Ba	135	32.963	ug/L	0.105	0	28	85917	0
Ba	137	32.970	ug/L	0.247	0	59	143931	1
> Tb	159		ug/L			396208	379707	1
Tl	205	0.002	ug/L	0.001	51	204	253	13
Pb	208	1.401	ug/L	0.012	0	541	57552	0
Bi	209		ug/L			360078	315225	0
Th	232	0.069	ug/L	0.020	29	1275	4817	23
U	238	0.093	ug/L	0.003	3	173	5457	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 D RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:04:32

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	405392	1
[Be	9	0.004	ug/L	0.007	157	3	5	58
C	13		mg/L			5302	7692	0
Cl	37		mg/L			2959467	2783169	0
> Sc	45		ug/L			303483	388642	0
V-1	51	2.606	ug/L	0.058	2	2787	52019	1
V	51	2.576	ug/L	0.041	1	1908	51341	0
Cr	52	0.448	ug/L	0.022	4	8625	18293	1
Cr	53	0.492	ug/L	0.037	7	693	1850	4
Mn	55	398.207	ug/L	3.979	0	850	11277731	0
[Co	59	0.584	ug/L	0.006	0	161	12711	0
> Ge	72		ug/L			439461	372713	1
Ni	60	15.658	ug/L	0.333	2	69	48604	1
Ni	62	12.066	ug/L	0.104	0	87	5730	0
Cu	63	2.365	ug/L	0.043	1	371	16948	2
Cu	65	2.521	ug/L	0.035	1	138	8627	1
Zn	66	1.463	ug/L	0.030	2	367	3590	2
Zn	67	2.290	ug/L	0.072	3	114	967	3
Zn	68	2.627	ug/L	0.058	2	10988	13480	0
As-1	75	2.002	ug/L	0.027	1	-64	3909	1
As	75	1.417	ug/L	0.033	2	13015	13847	1
Se	82	1.389	ug/L	0.089	6	0	286	5
Se	78	-0.766	ug/L	0.014	1	13279	10859	1
[Mo	98	0.356	ug/L	0.008	2	149	2785	1
Y	89		ug/L			353401	329259	0
Kr	83		ug/L			96	90	3
> In	115		ug/L			490660	409584	1
Ag	107	-0.002	ug/L	0.001	37	207	152	5
Cd	111	0.068	ug/L	0.006	8	247	435	3
Cd	114	0.052	ug/L	0.001	2	24	432	1
Sb	121	0.279	ug/L	0.003	1	404	3461	1
Sb	123	0.283	ug/L	0.005	1	311	2626	0
Ba	135	32.869	ug/L	0.261	0	28	79716	1
[Ba	137	32.907	ug/L	0.387	1	59	133657	1
> Tb	159		ug/L			396208	344173	1
Tl	205	0.007	ug/L	0.000	5	204	367	2
Pb	208	0.058	ug/L	0.001	1	541	2605	2
Bi	209		ug/L			360078	286974	0
Th	232	0.055	ug/L	0.013	24	1275	3690	18
[U	238	1.942	ug/L	0.013	0	173	100104	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 E RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:11:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	413524	0
[Be	9	0.004	ug/L	0.006	136	3	5	48
C	13		mg/L			5302	9618	1
Cl	37		mg/L			2959467	2841252	1
> Sc	45		ug/L			303483	360795	0
V-1	51	0.473	ug/L	0.016	3	2787	11470	1
V	51	0.472	ug/L	0.013	2	1908	10582	1
Cr	52	0.383	ug/L	0.004	1	8625	16012	1
Cr	53	0.386	ug/L	0.016	4	693	1525	2
Mn	55	5245.191	ug/L	76.913	1	850	137890167	1
[Co	59	0.497	ug/L	0.004	0	161	10068	1
> Ge	72		ug/L			439461	379178	0
Ni	60	5.680	ug/L	0.180	3	69	17974	2
Ni	62	2.560	ug/L	0.036	1	87	1296	1
Cu	63	3.384	ug/L	0.017	0	371	24535	0
Cu	65	3.435	ug/L	0.055	1	138	11915	1
Zn	66	2.049	ug/L	0.053	2	367	4989	1
Zn	67	2.908	ug/L	0.139	4	114	1222	4
Zn	68	3.342	ug/L	0.109	3	10988	14867	0
As-1	75	1.327	ug/L	0.017	1	-64	2618	1
As	75	0.980	ug/L	0.059	6	13015	13205	0
Se	82	1.036	ug/L	0.039	3	0	217	4
Se	78	-0.276	ug/L	0.208	75	13279	11309	0
[Mo	98	1.206	ug/L	0.021	1	149	9277	0
Y	89		ug/L			353401	313510	0
Kr	83		ug/L			96	81	7
> In	115		ug/L			490660	415965	0
Ag	107	-0.003	ug/L	0.000	17	207	138	5
Cd	111	0.031	ug/L	0.005	15	247	315	4
Cd	114	0.013	ug/L	0.002	16	24	126	13
Sb	121	0.139	ug/L	0.008	5	404	1927	5
Sb	123	0.142	ug/L	0.009	6	311	1467	4
Ba	135	41.962	ug/L	0.212	0	28	103349	1
[Ba	137	41.989	ug/L	0.032	0	59	173190	0
> Tb	159		ug/L			396208	349119	0
Tl	205	-0.001	ug/L	0.001	58	204	148	12
Pb	208	0.114	ug/L	0.004	3	541	4763	3
Bi	209		ug/L			360078	290481	0
Th	232	0.049	ug/L	0.015	31	1275	3468	21
[U	238	0.068	ug/L	0.004	6	173	3684	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 F RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:17:37

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	415434	0
[Be	9	0.003	ug/L	0.008	255	3	5	75
C	13		mg/L			5302	6448	1
Cl	37		mg/L			2959467	2784796	0
[> Sc	45		ug/L			303483	413045	1
V-1	51	0.141	ug/L	0.004	2	2787	6587	2
V	51	0.163	ug/L	0.003	2	1908	5886	2
Cr	52	-0.080	ug/L	0.015	18	8625	10356	1
Cr	53	0.001	ug/L	0.025	2231	693	946	4
Mn	55	329.660	ug/L	4.962	1	850	9924463	3
Co	59	0.283	ug/L	0.005	1	161	6654	0
[> Ge	72		ug/L			439461	373925	1
Ni	60	3.798	ug/L	0.123	3	69	11874	2
Ni	62	1.022	ug/L	0.060	5	87	555	6
Cu	63	0.844	ug/L	0.003	0	371	6273	1
Cu	65	0.690	ug/L	0.011	1	138	2456	2
Zn	66	0.768	ug/L	0.037	4	367	2040	5
Zn	67	2.523	ug/L	0.128	5	114	1058	4
Zn	68	3.462	ug/L	0.057	1	10988	14851	0
As-1	75	30.739	ug/L	0.091	0	-64	61023	1
As	75	30.328	ug/L	0.115	0	13015	71387	1
Se	82	0.951	ug/L	0.028	2	0	196	2
Se	78	-0.489	ug/L	0.098	20	13279	11041	1
[Mo	98	1.723	ug/L	0.023	1	149	13016	1
Y	89		ug/L			353401	314152	1
Kr	83		ug/L			96	84	3
[> In	115		ug/L			490660	408893	0
Ag	107	-0.006	ug/L	0.001	22	207	96	18
Cd	111	0.031	ug/L	0.009	29	247	311	10
Cd	114	0.022	ug/L	0.001	4	24	192	3
Sb	121	0.008	ug/L	0.002	26	404	426	6
Sb	123	0.007	ug/L	0.002	36	311	315	5
Ba	135	68.414	ug/L	0.108	0	28	165613	0
[Ba	137	68.817	ug/L	0.100	0	59	278986	0
[> Tb	159		ug/L			396208	348891	0
Tl	205	-0.002	ug/L	0.000	12	204	113	7
Pb	208	0.027	ug/L	0.001	3	541	1471	2
Bi	209		ug/L			360078	284233	0
Th	232	0.040	ug/L	0.018	44	1275	3060	28
[U	238	1.731	ug/L	0.017	0	173	90442	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 G RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:24:10

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	410994	0
[Be	9	0.006	ug/L	0.005	91	3	6	40
C	13		mg/L			5302	9569	1
Cl	37		mg/L			2959467	2838424	1
> Sc	45		ug/L			303483	378500	0
V-1	51	1.738	ug/L	0.015	0	2787	34936	0
V	51	1.705	ug/L	0.008	0	1908	33901	0
Cr	52	0.164	ug/L	0.010	6	8625	13350	0
Cr	53	0.164	ug/L	0.029	17	693	1177	4
Mn	55	3617.930	ug/L	6.927	0	850	99783509	0
Co	59	1.046	ug/L	0.010	0	161	22020	0
> Ge	72		ug/L			439461	379094	0
Ni	60	9.049	ug/L	0.151	1	69	28599	1
Ni	62	6.162	ug/L	0.098	1	87	3013	1
Cu	63	1.239	ug/L	0.008	0	371	9185	0
Cu	65	1.263	ug/L	0.071	5	138	4456	4
Zn	66	0.842	ug/L	0.027	3	367	2237	2
Zn	67	2.746	ug/L	0.071	2	114	1159	2
Zn	68	2.841	ug/L	0.026	0	10988	14057	1
As-1	75	11.823	ug/L	0.049	0	-64	23761	0
As	75	11.100	ug/L	0.054	0	13015	33607	0
Se	82	1.785	ug/L	0.138	7	0	373	7
Se	78	-0.863	ug/L	0.074	8	13279	10993	0
Mo	98	3.196	ug/L	0.059	1	149	24381	2
Y	89		ug/L			353401	323698	0
Kr	83		ug/L			96	91	3
> In	115		ug/L			490660	406600	0
Ag	107	-0.005	ug/L	0.002	48	207	107	29
Cd	111	0.020	ug/L	0.008	42	247	271	10
Cd	114	0.006	ug/L	0.002	32	24	70	23
Sb	121	0.112	ug/L	0.004	3	404	1574	3
Sb	123	0.108	ug/L	0.003	2	311	1157	2
Ba	135	71.868	ug/L	0.480	0	28	173003	1
Ba	137	71.784	ug/L	0.302	0	59	289385	0
> Tb	159		ug/L			396208	342367	1
Tl	205	-0.004	ug/L	0.000	2	204	79	3
Pb	208	0.005	ug/L	0.000	5	541	655	1
Bi	209		ug/L			360078	285042	1
Th	232	0.038	ug/L	0.017	45	1275	2894	29
U	238	1.107	ug/L	0.005	0	173	56815	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 I RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:30:43

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	418880	0
[Be	9	0.014	ug/L	0.007	50	3	10	33
C	13		mg/L			5302	13401	1
Cl	37		mg/L			2959467	2955058	0
[> Sc	45		ug/L			303483	322112	0
V-1	51	2.134	ug/L	0.036	1	2787	35840	1
V	51	2.142	ug/L	0.033	1	1908	35713	0
Cr	52	0.693	ug/L	0.018	2	8625	18462	1
Cr	53	0.808	ug/L	0.003	0	693	2045	0
Mn	55	337.964	ug/L	6.443	1	850	7933847	2
[Co	59	0.665	ug/L	0.015	2	161	11980	2
[> Ge	72		ug/L			439461	370431	1
Ni	60	4.439	ug/L	0.227	5	69	13734	4
Ni	62	1.705	ug/L	0.021	1	87	868	0
Cu	63	5.962	ug/L	0.147	2	371	41985	1
Cu	65	5.862	ug/L	0.053	0	138	19783	1
Zn	66	1.181	ug/L	0.057	4	367	2941	3
Zn	67	3.256	ug/L	0.048	1	114	1325	2
Zn	68	3.008	ug/L	0.132	4	10988	13996	0
As-1	75	2.888	ug/L	0.043	1	-64	5630	2
As	75	2.487	ug/L	0.041	1	13015	15871	1
Se	82	1.218	ug/L	0.080	6	0	249	6
Se	78	-0.246	ug/L	0.079	31	13279	11065	1
[Mo	98	0.774	ug/L	0.008	1	149	5862	2
Y	89		ug/L			353401	332563	0
Kr	83		ug/L			96	89	1
[> In	115		ug/L			490660	411000	0
Ag	107	0.021	ug/L	0.002	8	207	465	5
Cd	111	0.136	ug/L	0.004	2	247	665	1
Cd	114	0.129	ug/L	0.007	5	24	1046	4
Sb	121	0.370	ug/L	0.006	1	404	4496	2
Sb	123	0.370	ug/L	0.009	2	311	3370	1
Ba	135	72.793	ug/L	0.311	0	28	177119	0
[Ba	137	72.923	ug/L	0.423	0	59	297146	0
[> Tb	159		ug/L			396208	349648	0
Tl	205	0.014	ug/L	0.001	7	204	550	5
Pb	208	0.100	ug/L	0.001	0	541	4237	0
Bi	209		ug/L			360078	284541	0
Th	232	0.031	ug/L	0.015	47	1275	2595	26
[U	238	0.120	ug/L	0.005	3	173	6402	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 J RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:37:17

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	447127	0
[Be	9	0.001	ug/L	0.001	191	3	4	17
C	13		mg/L			5302	10279	0
Cl	37		mg/L			2959467	2791903	0
> Sc	45		ug/L			303483	332909	0
V-1	51	1.434	ug/L	0.029	2	2787	25893	1
V	51	1.466	ug/L	0.013	0	1908	25926	0
Cr	52	0.986	ug/L	0.023	2	8625	23136	1
Cr	53	1.113	ug/L	0.041	3	693	2624	2
Mn	55	65.952	ug/L	0.741	1	850	1600925	2
Co	59	0.215	ug/L	0.002	0	161	4122	0
> Ge	72		ug/L			439461	380380	1
Ni	60	4.990	ug/L	0.009	0	69	15853	1
Ni	62	3.857	ug/L	0.122	3	87	1920	2
Cu	63	6.134	ug/L	0.080	1	371	44355	2
Cu	65	6.053	ug/L	0.048	0	138	20974	2
Zn	66	24.493	ug/L	0.331	1	367	56354	1
Zn	67	22.524	ug/L	0.147	0	114	8830	2
Zn	68	24.462	ug/L	0.508	2	10988	49059	1
As-1	75	2.005	ug/L	0.021	1	-64	3997	1
As	75	1.575	ug/L	0.068	4	13015	14450	0
Se	82	0.651	ug/L	0.053	8	0	136	9
Se	78	-0.964	ug/L	0.242	25	13279	10976	0
Mo	98	0.955	ug/L	0.016	1	149	7397	0
Y	89		ug/L			353401	326885	1
Kr	83		ug/L			96	83	4
> In	115		ug/L			490660	429226	0
Ag	107	-0.002	ug/L	0.000	16	207	145	3
Cd	111	0.045	ug/L	0.005	11	247	377	5
Cd	114	0.031	ug/L	0.001	4	24	276	4
Sb	121	0.778	ug/L	0.003	0	404	9477	0
Sb	123	0.781	ug/L	0.009	1	311	7115	1
Ba	135	32.641	ug/L	0.301	0	28	82959	1
Ba	137	32.694	ug/L	0.206	0	59	139163	1
> Tb	159		ug/L			396208	378602	0
Tl	205	-0.000	ug/L	0.000	87	204	182	6
Pb	208	0.525	ug/L	0.003	0	541	21820	1
Bi	209		ug/L			360078	303783	0
Th	232	0.010	ug/L	0.004	36	1275	1741	11
U	238	0.085	ug/L	0.001	1	173	4992	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 O REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:43:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

R.R. As. Se

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	432016	0
[Be	9	<i>h</i> 0.001	ug/L	0.008	779	3	4	91
C	13		mg/L			5302	7848	1
Cl	37		mg/L			2959467	2740055	1
[> Sc	45		ug/L			303483	316601	1
V-1	51	0.836	ug/L	0.025	2	2787	15568	1
V	51	0.813	ug/L	0.025	3	1908	14556	1
Cr	52	0.084	ug/L	0.002	1	8625	10106	2
Cr	53	<i>h</i> 0.059	ug/L	0.002	3	693	818	1
Mn	55	1773.638	ug/L	10.823	0	850	40915146	1
Co	59	0.567	ug/L	0.016	2	161	10053	0
[> Ge	72		ug/L			439461	381107	0
Ni	60	3.844	ug/L	0.057	1	69	12249	1
Ni	62	2.528	ug/L	0.101	3	87	1287	3
Cu	63	<i>h</i> 0.444	ug/L	0.016	3	371	3514	3
Cu	65	0.448	ug/L	0.002	0	138	1668	0
Zn	66	0.845	ug/L	0.034	4	367	2255	3
Zn	67	<i>h</i> 1.556	ug/L	0.094	6	114	703	5
Zn	68	1.372	ug/L	0.108	7	10988	11751	1
As-1	75	<i>h</i> 4.974	ug/L	0.071	1	-64	10017	1
As	75	<i>h</i> 4.513	ug/L	0.097	2	13015	20433	0
Se	82	<i>h</i> 0.694	ug/L	0.061	8	0	146	8
Se	78	-1.030	ug/L	0.151	14	13279	10962	0
Mo	98	1.373	ug/L	0.018	1	149	10598	1
Y	89		ug/L			353401	325683	0
Kr	83		ug/L			96	83	6
[> In	115		ug/L			490660	426792	0
Ag	107	<i>h</i> -0.007	ug/L	0.001	8	207	78	11
Cd	111	0.008	ug/L	0.005	58	247	244	7
Cd	114	<i>h</i> 0.002	ug/L	0.000	27	24	35	10
Sb	121	0.032	ug/L	0.003	8	404	723	4
Sb	123	<i>h</i> 0.032	ug/L	0.003	8	311	550	4
Ba	135	30.551	ug/L	0.201	0	28	77210	0
Ba	137	30.727	ug/L	0.106	0	59	130049	0
[> Tb	159		ug/L			396208	371143	0
Tl	205	<i>h</i> -0.005	ug/L	0.000	1	204	61	3
Pb	208	-0.002	ug/L	0.001	67	541	426	12
Bi	209		ug/L			360078	301410	0
Th	232	-0.003	ug/L	0.003	97	1275	1053	12
U	238	0.447	ug/L	0.003	0	173	24974	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 Q REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:50:26

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	418226	0
[Be	9	0.007	ug/L	0.001	22	3	6	10
C	13		mg/L			5302	9633	0
Cl	37		mg/L			2959467	2793892	0
[> Sc	45		ug/L			303483	278955	0
V-1	51	0.882	ug/L	0.013	1	2787	14333	1
V	51	0.895	ug/L	0.008	0	1908	13941	1
Cr	52	0.296	ug/L	0.017	5	8625	11374	1
Cr	53	0.372	ug/L	0.018	4	693	1159	2
Mn	55	160.667	ug/L	5.376	3	850	3266589	3
Co	59	0.258	ug/L	0.006	2	161	4112	2
[> Ge	72		ug/L			439461	367256	0
Ni	60	1.576	ug/L	0.016	1	69	4875	1
Ni	62	0.614	ug/L	0.037	6	87	356	4
Cu	63	1.946	ug/L	0.011	0	371	13794	1
Cu	65	1.933	ug/L	0.026	1	138	6545	1
Zn	66	0.570	ug/L	0.009	1	367	1565	1
Zn	67	1.348	ug/L	0.085	6	114	600	6
Zn	68	1.044	ug/L	0.010	0	10988	10812	0
As-1	75	1.140	ug/L	0.034	2	-64	2170	3
As	75	1.022	ug/L	0.008	0	13015	12874	1
Se	82	0.341	ug/L	0.073	21	0	69	22
Se	78	-0.090	ug/L	0.087	96	13279	11050	0
[Mo	98	0.305	ug/L	0.012	3	149	2366	3
Y	89		ug/L			353401	319331	1
Kr	83		ug/L			96	82	13
[> In	115		ug/L			490660	415726	0
Ag	107	-0.005	ug/L	0.000	5	207	112	3
Cd	111	0.052	ug/L	0.002	3	247	385	2
Cd	114	0.039	ug/L	0.002	6	24	336	6
Sb	121	0.146	ug/L	0.001	0	404	1997	1
Sb	123	0.145	ug/L	0.005	3	311	1493	2
Ba	135	31.242	ug/L	0.215	0	28	76909	1
[Ba	137	31.097	ug/L	0.326	1	59	128209	1
[> Tb	159		ug/L			396208	360761	1
Tl	205	0.002	ug/L	0.001	28	204	254	9
Pb	208	0.005	ug/L	0.000	2	541	689	2
Bi	209		ug/L			360078	300460	1
Th	232	-0.003	ug/L	0.005	187	1275	1030	25
[U	238	0.045	ug/L	0.001	2	173	2610	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 17:57:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>] Li	6		ug/L			392730	426603 ✓	0
[Be	9	46.106	ug/L	1.169	2	3	22092	2
C	13		mg/L			5302	4752	3
Cl	37		mg/L			2959467	2760819	1
[>] Sc	45		ug/L			303483	266078 ✓	0
| V-1	51	49.220	ug/L	0.585	1	2787	628881	0
| V	51	49.070	ug/L	0.610	1	1908	639248	0
| Cr	52	49.628	ug/L	0.369	0	8625	557838	0
| Cr	53	49.135	ug/L	0.459	0	693	66351	0
| Mn	55	49.841	ug/L	0.466	0	850	967029	0
[Co	59	49.398	ug/L	0.687	1	161	724245	0
[>] Ge	72		ug/L			439461	373747 ✓	0
| Ni	60	49.818	ug/L	0.506	1	69	154971	1
| Ni	62	49.772	ug/L	0.386	0	87	23475	0
| Cu	63	50.356	ug/L	0.237	0	371	355474	0
| Cu	65	50.168	ug/L	0.375	0	138	169934	0
| Zn	66	50.486	ug/L	0.330	0	367	113806	0
| Zn	67	50.321	ug/L	0.342	0	114	19263	1
| Zn	68	49.946	ug/L	0.770	1	10988	88695	1
| As-1	75	49.707	ug/L	0.242	0	-64	98669	0
| As	75	49.391	ug/L	0.285	0	13015	109250	0
| Se	82	49.548	ug/L	0.161	0	0	10239	0
| Se	78	48.347	ug/L	0.385	0	13279	36764	0
[Mo	98	51.652	ug/L	0.120	0	149	386473	0
Y	89		ug/L			353401	315266	0
Kr	83		ug/L			96	84	3
[>] In	115		ug/L			490660	429933 ✓	0
| Ag	107	50.253	ug/L	0.392	0	207	731554	0
| Cd	111	49.858	ug/L	0.228	0	247	176723	0
| Cd	114	49.709	ug/L	0.540	1	24	414256	0
| Sb	121	49.343	ug/L	0.516	1	404	579694	0
| Sb	123	49.504	ug/L	0.758	1	311	434991	0
| Ba	135	48.589	ug/L	0.349	0	28	123678	0
[Ba	137	48.553	ug/L	0.699	1	59	206973	1
[>] Tb	159		ug/L			396208	368535 ✓	0
| Tl	205	46.097	ug/L	0.454	0	204	1308736	0
| Pb	208	46.529	ug/L	0.419	0	541	1839581	0
| Bi	209		ug/L			360078	311552	0
| Th	232	47.553	ug/L	0.715	1	1275	2404724	0
[U	238	47.164	ug/L	0.499	1	173	2599397	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:04:16

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	426971	1
[Be	9	0.077	ug/L	0.094	122	3	40	112
C	13		mg/L			5302	4952	2
Cl	37		mg/L			2959467	2845517	1
[> Sc	45		ug/L			303483	265836	1
| V-1	51	0.108	ug/L	0.123	113	2787	3818	40
| V	51	0.086	ug/L	0.130	151	1908	2780	60
| Cr	52	0.115	ug/L	0.124	107	8625	8829	15
| Cr	53	0.044	ug/L	0.146	333	693	665	29
| Mn	55	0.335	ug/L	0.353	105	850	7214	94
[Co	59	0.091	ug/L	0.125	137	161	1470	124
[> Ge	72		ug/L			439461	377105	0
| Ni	60	0.099	ug/L	0.129	129	69	372	109
| Ni	62	0.077	ug/L	0.146	188	87	111	62
| Cu	63	0.084	ug/L	0.132	156	371	922	102
| Cu	65	0.105	ug/L	0.131	124	138	478	94
| Zn	66	0.054	ug/L	0.120	220	367	439	62
| Zn	67	0.066	ug/L	0.102	155	114	123	32
| Zn	68	-0.341	ug/L	0.151	44	10988	8883	3
| As-1	75	0.089	ug/L	0.113	126	-64	123	183
| As	75	0.128	ug/L	0.070	54	13015	11425	1
| Se	82	0.116	ug/L	0.093	79	0	24	80
| Se	78	0.302	ug/L	0.117	38	13279	11555	0
[Mo	98	0.142	ug/L	0.155	109	149	1204	97
Y	89		ug/L			353401	322402	0
Kr	83		ug/L			96	91	2
[> In	115		ug/L			490660	440054	0
| Ag	107	0.110	ug/L	0.126	114	207	1829	103
| Cd	111	0.100	ug/L	0.134	134	247	585	83
| Cd	114	0.090	ug/L	0.114	125	24	795	122
| Sb	121	0.192	ug/L	0.184	95	404	2675	83
| Sb	123	0.193	ug/L	0.184	95	311	2017	82
| Ba	135	0.102	ug/L	0.125	121	28	292	111
[Ba	137	0.110	ug/L	0.133	120	59	536	109
[> Tb	159		ug/L			396208	368299	1
| Tl	205	0.102	ug/L	0.115	112	204	3129	106
| Pb	208	0.091 ✓	ug/L	0.110	121	541	4152	107
| Bi	209		ug/L			360078	319150	0
| Th	232	0.299	ug/L	0.237	79	1275	16449	75
[U	238	0.110	ug/L	0.123	111	173	6284	110

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB1 RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:11:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	425410	0
[Be	9	0.009	ug/L	0.011	119	3	7	65
C	13		mg/L			5302	5232	0
Cl	37		mg/L			2959467	2835855	1
> Sc	45		ug/L			303483	268423	0
V-1	51	0.023	ug/L	0.011	46	2787	2755	4
V	51	0.000	ug/L	0.020	4062	1908	1694	15
Cr	52	0.042	ug/L	0.006	14	8625	8094	1
Cr	53	-0.028	ug/L	0.034	121	693	575	7
Mn	55	0.194	ug/L	0.177	90	850	4545	75
[Co	59	0.005	ug/L	0.017	305	161	222	109
> Ge	72		ug/L			439461	378575	0
Ni	60	0.015	ug/L	0.011	73	69	107	32
Ni	62	0.016	ug/L	0.027	172	87	82	15
Cu	63	0.089	ug/L	0.016	17	371	955	12
Cu	65	0.100	ug/L	0.019	19	138	463	13
Zn	66	0.441	ug/L	0.024	5	367	1320	3
Zn	67	0.370	ug/L	0.042	11	114	241	5
Zn	68	0.031	ug/L	0.104	339	10988	9514	0
As-1	75	0.003	ug/L	0.023	872	-64	-50	93
As	75	-0.003	ug/L	0.068	2298	13015	11205	0
Se	82	0.078	ug/L	0.028	35	0	16	34
Se	78	0.052	ug/L	0.204	389	13279	11466	0
[Mo	98	0.013	ug/L	0.020	155	149	225	66
Y	89		ug/L			353401	322744	0
Kr	83		ug/L			96	82	4
> In	115		ug/L			490660	440428	0
Ag	107	0.015	ug/L	0.015	102	207	410	56
Cd	111	0.013	ug/L	0.009	71	247	270	12
Cd	114	0.009	ug/L	0.012	133	24	100	103
Sb	121	0.031	ug/L	0.034	112	404	732	56
Sb	123	0.029	ug/L	0.034	116	311	539	56
Ba	135	0.045	ug/L	0.022	48	28	143	39
[Ba	137	0.040	ug/L	0.026	64	59	228	49
> Tb	159		ug/L			396208	371516	0
Tl	205	0.011	ug/L	0.013	116	204	505	72
Pb	208	0.020	ug/L	0.019	97	541	1288	59
Bi	209		ug/L			360078	326417	0
Th	232	0.114	ug/L	0.064	55	1275	6995	46
[U	238	0.016	ug/L	0.018	109	173	1078	93

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB2 RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:18:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	423038	1
[Be	9	0.001	ug/L	0.005	462	3	4	62
C	13		mg/L			5302	5266	1
Cl	37		mg/L			2959467	2846263	1
[> Sc	45		ug/L			303483	268999	0
V-1	51	0.011	ug/L	0.012	102	2787	2615	5
V	51	-0.014	ug/L	0.007	48	1908	1510	5
Cr	52	0.028	ug/L	0.016	56	8625	7959	2
Cr	53	-0.051	ug/L	0.006	11	693	545	1
Mn	55	0.112	ug/L	0.057	51	850	2941	37
Co	59	-0.002	ug/L	0.003	155	161	114	39
[> Ge	72		ug/L			439461	375299	1
Ni	60	0.009	ug/L	0.004	44	69	87	15
Ni	62	0.013	ug/L	0.010	75	87	80	6
Cu	63	0.111	ug/L	0.006	5	371	1106	4
Cu	65	0.120	ug/L	0.004	3	138	525	0
Zn	66	0.362	ug/L	0.018	5	367	1131	2
Zn	67	0.278	ug/L	0.032	11	114	204	7
Zn	68	-0.078	ug/L	0.074	94	10988	9258	1
As-1	75	-0.000	ug/L	0.010	2156	-64	-56	37
As	75	0.037	ug/L	0.059	161	13015	11187	0
Se	82	0.033	ug/L	0.026	79	0	6	79
Se	78	0.171	ug/L	0.221	129	13279	11429	0
[Mo	98	-0.004	ug/L	0.005	128	149	99	38
Y	89		ug/L			353401	320622	0
Kr	83		ug/L			96	82	3
[> In	115		ug/L			490660	441052	0
Ag	107	0.004	ug/L	0.003	85	207	240	18
Cd	111	0.000	ug/L	0.005	5078	247	222	7
Cd	114	0.002	ug/L	0.002	69	24	41	32
Sb	121	-0.004	ug/L	0.010	220	404	310	37
Sb	123	-0.005	ug/L	0.009	159	311	232	33
Ba	135	0.012	ug/L	0.012	96	28	57	53
[Ba	137	0.009	ug/L	0.007	79	59	94	34
[> Tb	159		ug/L			396208	371498	0
Tl	205	0.001	ug/L	0.002	320	204	214	33
Pb	208	✓ 0.004	ug/L	0.004	99	541	649	22
Bi	209		ug/L			360078	322405	1
Th	232	0.043	ug/L	0.019	44	1275	3373	29
[U	238	0.004	ug/L	0.003	81	173	367	46

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB1SPK RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:24:41

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	424207	0
[Be	9	11.690	ug/L	0.130	1	3	5565	0
C	13		mg/L			5302	5337	2
Cl	37		mg/L			2959467	2852647	0
[> Sc	45		ug/L			303483	266556	0
V-1	51	12.792	ug/L	0.099	0	2787	165557	0
V	51	12.754	ug/L	0.062	0	1908	167695	0
Cr	52	13.067	ug/L	0.173	1	8625	152728	1
Cr	53	12.930	ug/L	0.203	1	693	17942	1
Mn	55	13.153	ug/L	0.105	0	850	256214	0
Co	59	13.237	ug/L	0.083	0	161	194538	0
[> Ge	72		ug/L			439461	374020	0
Ni	60	13.248	ug/L	0.262	1	69	41278	1
Ni	62	13.209	ug/L	0.388	2	87	6288	2
Cu	63	13.951	ug/L	0.188	1	371	98775	0
Cu	65	13.987	ug/L	0.132	0	138	47498	1
Zn	66	40.967	ug/L	0.167	0	367	92473	0
Zn	67	37.311	ug/L	0.206	0	114	14318	1
Zn	68	39.774	ug/L	0.432	1	10988	72581	0
As-1	75	12.760	ug/L	0.043	0	-64	25304	0
As	75	12.693	ug/L	0.051	0	13015	36327	0
Se	82	39.013	ug/L	0.358	0	0	8068	0
Se	78	38.693	ug/L	0.400	1	13279	31701	0
[Mo	98	-0.007	ug/L	0.003	42	149	77	26
Y	89		ug/L			353401	317734	0
Kr	83		ug/L			96	89	5
[> In	115		ug/L			490660	439101	0
Ag	107	12.754	ug/L	0.164	1	207	189751	0
Cd	111	12.754	ug/L	0.098	0	247	46334	0
Cd	114	12.677	ug/L	0.153	1	24	107914	1
Sb	121	-0.011	ug/L	0.004	36	404	235	20
Sb	123	-0.011	ug/L	0.003	27	311	183	15
Ba	135	13.030	ug/L	0.077	0	28	33893	1
[Ba	137	13.252	ug/L	0.192	1	59	57733	0
[> Tb	159		ug/L			396208	371275	0
Tl	205	12.309	ug/L	0.037	0	204	352215	0
Pb	208	12.480	ug/L	0.046	0	541	497464	0
Bi	209		ug/L			360078	324506	0
Th	232	12.135	ug/L	0.121	0	1275	619139	0
[U	238	12.279	ug/L	0.068	0	173	681914	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 MB2SPK RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:31:14

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	418307	1
[Be	9	12.148	ug/L	0.168	1	3	5703	0
C	13		mg/L			5302	5245	2
Cl	37		mg/L			2959467	2849624	0
[> Sc	45		ug/L			303483	264915	0
V-1	51	13.098	ug/L	0.158	1	2787	168416	1
V	51	13.032	ug/L	0.128	0	1908	170266	0
Cr	52	13.352	ug/L	0.028	0	8625	154933	0
Cr	53	13.131	ug/L	0.094	0	693	18099	0
Mn	55	13.474	ug/L	0.119	0	850	260832	0
Co	59	13.472	ug/L	0.044	0	161	196773	0
[> Ge	72		ug/L			439461	369019	1
Ni	60	13.739	ug/L	0.106	0	69	42235	0
Ni	62	13.767	ug/L	0.203	1	87	6463	0
Cu	63	14.418	ug/L	0.112	0	371	100710	1
Cu	65	14.275	ug/L	0.047	0	138	47827	1
Zn	66	41.990	ug/L	0.234	0	367	93510	1
Zn	67	38.651	ug/L	0.321	0	114	14631	1
Zn	68	40.947	ug/L	0.361	0	10988	73451	0
As-1	75	13.203	ug/L	0.073	0	-64	25836	1
As	75	13.125	ug/L	0.104	0	13015	36687	0
Se	82	40.074	ug/L	0.523	1	0	8176	1
Se	78	39.712	ug/L	0.627	1	13279	31805	0
[Mo	98	-0.006	ug/L	0.001	24	149	81	12
Y	89		ug/L			353401	313217	1
Kr	83		ug/L			96	88	8
[> In	115		ug/L			490660	434887	0
Ag	107	13.125	ug/L	0.120	0	207	193407	1
Cd	111	13.113	ug/L	0.043	0	247	47178	0
Cd	114	12.898	ug/L	0.047	0	24	108749	0
Sb	121	-0.016	ug/L	0.002	10	404	167	11
Sb	123	-0.017	ug/L	0.001	7	311	120	10
Ba	135	13.208	ug/L	0.182	1	28	34027	1
[Ba	137	13.074	ug/L	0.058	0	59	56417	0
[> Tb	159		ug/L			396208	368871	0
Tl	205	12.532	ug/L	0.032	0	204	356267	0
Pb	208	12.692	ug/L	0.096	0	541	502619	0
Bi	209		ug/L			360078	321705	0
Th	232	12.319	ug/L	0.070	0	1275	624445	0
[U	238	12.529	ug/L	0.049	0	173	691296	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 HDUP RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:37:43

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	405341	0
[Be	9	0.037	ug/L	0.030	81	3	20	68
C	13		mg/L			5302	12942	1
Cl	37		mg/L			2959467	2927711	0
[> Sc	45		ug/L			303483	310735	0
V-1	51	2.113	ug/L	0.043	2	2787	34263	1
V	51	2.136	ug/L	0.052	2	1908	34369	2
Cr	52	0.648	ug/L	0.032	4	8625	17223	2
Cr	53	0.812	ug/L	0.060	7	693	1979	4
Mn	55	308.613	ug/L	1.353	0	850	6988596	0
[Co	59	0.627	ug/L	0.030	4	161	10895	4
[> Ge	72		ug/L			439461	362174	1
Ni	60	4.089	ug/L	0.182	4	69	12375	4
Ni	62	1.686	ug/L	0.086	5	87	840	5
Cu	63	5.770	ug/L	0.019	0	371	39739	1
Cu	65	5.711	ug/L	0.100	1	138	18845	1
Zn	66	1.311	ug/L	0.161	12	367	3161	12
Zn	67	3.400	ug/L	0.170	4	114	1349	5
Zn	68	3.039	ug/L	0.068	2	10988	13733	1
As-1	75	2.754	ug/L	0.054	1	-64	5248	3
As	75	2.518	ug/L	0.052	2	13015	15576	1
Se	82	0.991	ug/L	0.055	5	0	198	6
Se	78	0.162	ug/L	0.074	45	13279	11027	1
[Mo	98	0.759	ug/L	0.008	1	149	5626	2
Y	89		ug/L			353401	324477	0
Kr	83		ug/L			96	90	7
[> In	115		ug/L			490660	408012	0
Ag	107	0.054	ug/L	0.034	63	207	914	51
Cd	111	0.150	ug/L	0.034	22	247	710	16
Cd	114	0.146	ug/L	0.038	25	24	1179	25
Sb	121	0.377	ug/L	0.005	1	404	4536	2
Sb	123	0.384	ug/L	0.006	1	311	3459	0
Ba	135	70.487	ug/L	0.554	0	28	170261	0
[Ba	137	70.852	ug/L	0.331	0	59	286614	0
[> Tb	159		ug/L			396208	343772	1
Tl	205	0.041	ug/L	0.033	81	204	1273	70
Pb	208	0.112	ug/L	0.038	33	541	4617	31
Bi	209		ug/L			360078	288769	1
Th	232	0.134	ug/L	0.092	68	1275	7436	59
[U	238	0.149	ug/L	0.037	24	173	7827	25

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 H RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:44:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	418288	0
[Be	9	0.024	ug/L	0.018	76	3	14	58
C	13		mg/L			5302	12778	1
Cl	37		mg/L			2959467	2841303	0
[> Sc	45		ug/L			303483	308435	0
V-1	51	2.029	ug/L	0.022	1	2787	32768	1
V	51	2.070	ug/L	0.034	1	1908	33123	1
Cr	52	0.630	ug/L	0.027	4	8625	16862	1
Cr	53	0.847	ug/L	0.067	7	693	2019	4
Mn	55	307.886	ug/L	0.850	0	850	6920507	0
Co	59	0.597	ug/L	0.003	0	161	10305	1
[> Ge	72		ug/L			439461	355646	0
Ni	60	4.025	ug/L	0.010	0	69	11967	1
Ni	62	1.608	ug/L	0.068	4	87	789	4
Cu	63	5.666	ug/L	0.038	0	371	38326	1
Cu	65	5.584	ug/L	0.045	0	138	18097	0
Zn	66	1.248	ug/L	0.026	2	367	2966	1
Zn	67	3.184	ug/L	0.131	4	114	1246	4
Zn	68	2.870	ug/L	0.067	2	10988	13231	1
As-1	75	2.666	ug/L	0.008	0	-64	4985	1
As	75	2.357	ug/L	0.037	1	13015	14992	1
Se	82	1.097	ug/L	0.061	5	0	215	4
Se	78	-0.048	ug/L	0.062	128	13279	10722	1
[Mo	98	0.741	ug/L	0.008	1	149	5393	1
Y	89		ug/L			353401	323459	1
Kr	83		ug/L			96	80	3
[> In	115		ug/L			490660	401265	0
Ag	107	0.029	ug/L	0.007	24	207	558	17
Cd	111	0.134	ug/L	0.009	6	247	644	5
Cd	114	0.121	ug/L	0.003	2	24	959	2
Sb	121	0.354	ug/L	0.003	0	404	4207	1
Sb	123	0.353	ug/L	0.005	1	311	3151	1
Ba	135	69.847	ug/L	0.467	0	28	165933	1
[Ba	137	70.073	ug/L	0.743	1	59	278786	1
[> Tb	159		ug/L			396208	350304	0
Tl	205	0.016	ug/L	0.004	28	204	607	20
Pb	208	0.086	ug/L	0.003	3	541	3712	3
Bi	209		ug/L			360078	285322	0
Th	232	0.054	ug/L	0.014	25	1275	3738	18
[U	238	0.119	ug/L	0.004	3	173	6371	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 HSPK RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:50:44

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	418976	0
[Be	9	11.243	ug/L	0.056	0	3	5287	0
C	13		mg/L			5302	12958	0
Cl	37		mg/L			2959467	2824447	0
> Sc	45		ug/L			303483	306662	1
V-1	51	13.339	ug/L	0.113	0	2787	198462	0
V	51	13.401	ug/L	0.172	1	1908	202583	0
Cr	52	11.765	ug/L	0.039	0	8625	159060	1
Cr	53	12.058	ug/L	0.244	2	693	19291	1
Mn	55	323.737	ug/L	6.141	1	850	7233311	0
Co	59	11.897	ug/L	0.056	0	161	201189	2
> Ge	72		ug/L			439461	352928	0
Ni	60	17.648	ug/L	0.455	2	69	51872	2
Ni	62	14.979	ug/L	0.314	2	87	6719	1
Cu	63	19.397	ug/L	0.294	1	371	129480	1
Cu	65	19.226	ug/L	0.194	1	138	61567	1
Zn	66	39.866	ug/L	0.095	0	367	84920	0
Zn	67	38.551	ug/L	0.478	1	114	13956	1
Zn	68	40.405	ug/L	0.154	0	10988	69438	0
As-1	75	15.080	ug/L	0.123	0	-64	28229	0
As	75	14.645	ug/L	0.197	1	13015	37940	0
Se	82	36.459	ug/L	0.295	0	0	7114	0
Se	78	34.782	ug/L	0.380	1	13279	27967	0
Mo	98	0.764	ug/L	0.002	0	149	5517	0
Y	89		ug/L			353401	319347	1
Kr	83		ug/L			96	86	5
> In	115		ug/L			490660	397221	1
Ag	107	11.571	ug/L	0.058	0	207	155755	0
Cd	111	12.493	ug/L	0.106	0	247	41062	1
Cd	114	12.321	ug/L	0.116	0	24	94877	0
Sb	121	0.384	ug/L	0.006	1	404	4491	2
Sb	123	0.387	ug/L	0.011	2	311	3394	1
Ba	135	84.564	ug/L	0.332	0	28	198859	1
Ba	137	85.366	ug/L	0.314	0	59	336179	0
> Tb	159		ug/L			396208	345754	1
Tl	205	11.786	ug/L	0.118	1	204	314037	0
Pb	208	11.887	ug/L	0.150	1	541	441216	0
Bi	209		ug/L			360078	283574	1
Th	232	8.965	ug/L	0.166	1	1275	426207	1
U	238	12.053	ug/L	0.119	0	173	623278	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 PDUP RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 18:57:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	415565	0
[Be	9	0.044	ug/L	0.029	64	3	24	54
C	13		mg/L			5302	12854	0
Cl	37		mg/L			2959467	2816746	0
[> Sc	45		ug/L			303483	301007	0
[V-1	51	1.986	ug/L	0.021	1	2787	31358	1
[V	51	2.034	ug/L	0.024	1	1908	31786	1
[Cr	52	0.610	ug/L	0.008	1	8625	16212	0
[Cr	53	0.846	ug/L	0.022	2	693	1968	1
[Mn	55	340.767	ug/L	2.165	0	850	7475088	0
[Co	59	0.648	ug/L	0.029	4	161	10913	4
[> Ge	72		ug/L			439461	351133	2
[Ni	60	4.065	ug/L	0.077	1	69	11929	1
[Ni	62	1.588	ug/L	0.064	4	87	771	5
[Cu	63	4.935	ug/L	0.060	1	371	32997	2
[Cu	65	4.864	ug/L	0.043	0	138	15576	1
[Zn	66	1.113	ug/L	0.116	10	367	2648	11
[Zn	67	3.088	ug/L	0.096	3	114	1196	5
[Zn	68	2.726	ug/L	0.090	3	10988	12846	1
[As-1	75	2.752	ug/L	0.027	0	-64	5084	3
[As	75	2.359	ug/L	0.066	2	13015	14803	1
[Se	82	1.028	ug/L	0.087	8	0	199	10
[Se	78	-0.401	ug/L	0.292	72	13279	10409	1
[Mo	98	0.716	ug/L	0.028	3	149	5148	2
[Y	89		ug/L			353401	315092	1
[Kr	83		ug/L			96	85	2
[> In	115		ug/L			490660	397063	1
[Ag	107	0.025	ug/L	0.032	128	207	507	86
[Cd	111	0.138	ug/L	0.045	32	247	652	24
[Cd	114	0.115	ug/L	0.034	29	24	909	30
[Sb	121	0.377	ug/L	0.011	2	404	4416	3
[Sb	123	0.382	ug/L	0.009	2	311	3347	2
[Ba	135	72.124	ug/L	0.315	0	28	169537	1
[Ba	137	72.119	ug/L	0.088	0	59	283912	1
[> Tb	159		ug/L			396208	346601	1
[Tl	205	0.037	ug/L	0.033	89	204	1180	77
[Pb	208	0.042	ug/L	0.031	73	541	2045	57
[Bi	209		ug/L			360078	282227	0
[Th	232	0.057	ug/L	0.041	73	1275	3818	53
[U	238	0.134	ug/L	0.032	24	173	7125	24

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 P RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:03:46

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	418151	0
[Be	9	0.016	ug/L	0.007	43	3	11	29
C	13		mg/L			5302	12709	0
Cl	37		mg/L			2959467	2747236	0
> Sc	45		ug/L			303483	303414	1
V-1	51	2.002	ug/L	0.014	0	2787	31837	0
V	51	2.024	ug/L	0.017	0	1908	31897	1
Cr	52	0.627	ug/L	0.046	7	8625	16544	2
Cr	53	0.783	ug/L	0.013	1	693	1888	0
Mn	55	350.082	ug/L	2.604	0	850	7740258	0
[Co	59	0.640	ug/L	0.002	0	161	10863	1
> Ge	72		ug/L			439461	347238	0
Ni	60	4.199	ug/L	0.101	2	69	12183	1
Ni	62	1.555	ug/L	0.041	2	87	748	2
Cu	63	5.127	ug/L	0.080	1	371	33892	1
Cu	65	5.037	ug/L	0.067	1	138	15948	0
Zn	66	0.993	ug/L	0.025	2	367	2363	2
Zn	67	2.934	ug/L	0.095	3	114	1128	3
Zn	68	2.750	ug/L	0.115	4	10988	12740	0
As-1	75	2.783	ug/L	0.049	1	-64	5084	2
As	75	2.438	ug/L	0.069	2	13015	14786	1
Se	82	1.025	ug/L	0.062	6	0	196	6
Se	78	-0.256	ug/L	0.102	40	13279	10367	1
[Mo	98	0.739	ug/L	0.022	2	149	5255	3
Y	89		ug/L			353401	314523	0
Kr	83		ug/L			96	78	4
> In	115		ug/L			490660	392103	0
Ag	107	0.003	ug/L	0.003	89	207	207	18
Cd	111	0.107	ug/L	0.008	7	247	542	4
Cd	114	0.096	ug/L	0.001	1	24	746	0
Sb	121	0.379	ug/L	0.009	2	404	4384	2
Sb	123	0.387	ug/L	0.003	0	311	3350	1
Ba	135	74.235	ug/L	0.155	0	28	172328	0
[Ba	137	74.725	ug/L	0.305	0	59	290499	0
> Tb	159		ug/L			396208	345105	1
Tl	205	0.015	ug/L	0.003	17	204	570	13
Pb	208	u 0.015	ug/L	0.002	13	541	1017	8
Bi	209		ug/L			360078	278072	0
Th	232	0.018	ug/L	0.010	55	1275	1943	24
[U	238	0.114	ug/L	0.003	2	173	6016	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 PSPK RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:10:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	413931	0
[Be	9	10.971	ug/L	0.230	2	3	5097	1
C	13		mg/L			5302	12933	0
Cl	37		mg/L			2959467	2771088	0
[> Sc	45		ug/L			303483	299524	0
| V-1	51	13.050	ug/L	0.170	1	2787	189716	0
| V	51	13.132	ug/L	0.110	0	1908	193964	0
| Cr	52	11.650	ug/L	0.110	0	8625	153925	0
| Cr	53	11.994	ug/L	0.102	0	693	18751	1
| Mn	55	359.930	ug/L	6.053	1	850	7855617	0
[Co	59	11.762	ug/L	0.155	1	161	194246	0
[> Ge	72		ug/L			439461	340067	0
| Ni	60	17.578	ug/L	0.325	1	69	49781	0
| Ni	62	15.088	ug/L	0.098	0	87	6522	1
| Cu	63	18.456	ug/L	0.190	1	371	118723	1
| Cu	65	18.258	ug/L	0.096	0	138	56339	0
| Zn	66	40.072	ug/L	0.334	0	367	82246	0
| Zn	67	38.116	ug/L	0.221	0	114	13297	1
| Zn	68	40.337	ug/L	0.645	1	10988	66804	0
| As-1	75	15.028	ug/L	0.254	1	-64	27106	1
| As	75	14.561	ug/L	0.282	1	13015	36405	0
| Se	82	36.595	ug/L	0.539	1	0	6880	0
| Se	78	34.762	ug/L	0.706	2	13279	26937	0
[Mo	98	0.754	ug/L	0.021	2	149	5249	2
Y	89		ug/L			353401	307341	0
Kr	83		ug/L			96	76	2
[> In	115		ug/L			490660	383669	1
| Ag	107	11.834	ug/L	0.087	0	207	153859	0
| Cd	111	12.265	ug/L	0.190	1	247	38938	0
| Cd	114	12.092	ug/L	0.130	1	24	89936	1
| Sb	121	0.396	ug/L	0.006	1	404	4468	2
| Sb	123	0.405	ug/L	0.010	2	311	3413	0
| Ba	135	87.657	ug/L	0.635	0	28	199095	1
[Ba	137	87.693	ug/L	0.847	0	59	333546	0
[> Tb	159		ug/L			396208	340429	0
| Tl	205	11.517	ug/L	0.045	0	204	302186	0
| Pb	208	11.516	ug/L	0.034	0	541	420938	0
| Bi	209		ug/L			360078	274049	1
| Th	232	10.950	ug/L	0.086	0	1275	512387	0
[U	238	11.748	ug/L	0.064	0	173	598225	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:16:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	426333	0
[Be	9	45.610	ug/L	0.596	1	3	21815	1
C	13		mg/L			5302	4584	1
Cl	37		mg/L			2959467	2635771	1
[> Sc	45		ug/L			303483	255428	0
| V-1	51	50.125	ug/L	0.530	1	2787	614762	0
| V	51	49.999	ug/L	0.425	0	1908	625258	0
| Cr	52	50.377	ug/L	1.021	2	8625	543445	1
| Cr	53	49.970	ug/L	0.682	1	693	64765	0
| Mn	55	51.218	ug/L	1.827	3	850	953805	2
[Co	59	50.359	ug/L	0.522	1	161	708797	0
[> Ge	72		ug/L			439461	358018	0
| Ni	60	50.893	ug/L	0.185	0	69	151649	0
| Ni	62	50.638	ug/L	0.742	1	87	22876	1
| Cu	63	51.182	ug/L	0.264	0	371	346101	0
| Cu	65	51.303	ug/L	0.312	0	138	166461	0
| Zn	66	51.295	ug/L	0.066	0	367	110758	0
| Zn	67	51.208	ug/L	0.130	0	114	18775	0
| Zn	68	50.240	ug/L	0.482	0	10988	85406	0
| As-1	75	48.930	ug/L	0.035	0	-64	93038	0
| As	75	48.633	ug/L	0.081	0	13015	103207	0
| Se	82	49.118	ug/L	0.175	0	0	9723	0
| Se	78	47.988	ug/L	0.260	0	13279	35035	0
[Mo	98	51.589	ug/L	0.261	0	149	369750	0
Y	89		ug/L			353401	304160	0
Kr	83		ug/L			96	81	7
[> In	115		ug/L			490660	417505	0
| Ag	107	49.803	ug/L	0.276	0	207	704071	0
| Cd	111	49.655	ug/L	0.312	0	247	170917	0
| Cd	114	49.310	ug/L	0.232	0	24	399067	0
| Sb	121	48.883	ug/L	0.058	0	404	557714	0
| Sb	123	48.997	ug/L	0.159	0	311	418115	0
| Ba	135	48.671	ug/L	0.653	1	28	120310	1
[Ba	137	48.697	ug/L	0.796	1	59	201594	1
[> Tb	159		ug/L			396208	369602	1
| Tl	205	44.732	ug/L	0.480	1	204	1273576	0
| Pb	208	45.227	ug/L	0.571	1	541	1793161	0
| Bi	209		ug/L			360078	302545	0
| Th	232	45.984	ug/L	0.650	1	1275	2332013	0
[U	238	45.932	ug/L	0.558	1	173	2538632	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:24:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	427238	0
[Be	9	0.094	ug/L	0.127	134	3	49	124
C	13		mg/L			5302	4814	3
Cl	37		mg/L			2959467	2765970	1
> Sc	45		ug/L			303483	260557	0
V-1	51	0.126	ug/L	0.162	129	2787	3950	50
V	51	0.105	ug/L	0.157	149	1908	2962	66
Cr	52	0.126	ug/L	0.168	133	8625	8767	20
Cr	53	0.061	ug/L	0.151	247	693	675	28
Mn	55	0.245	ug/L	0.249	101	850	5362	87
Co	59	0.121	ug/L	0.162	134	161	1860	124
> Ge	72		ug/L			439461	367768	1
Ni	60	0.128	ug/L	0.173	135	69	452	118
Ni	62	0.130	ug/L	0.162	124	87	133	57
Cu	63	0.115	ug/L	0.169	147	371	1116	107
Cu	65	0.132	ug/L	0.160	121	138	558	96
Zn	66	0.095	ug/L	0.176	184	367	521	76
Zn	67	0.072	ug/L	0.135	186	114	123	42
Zn	68	-0.266	ug/L	0.193	72	10988	8782	4
As-1	75	0.122	ug/L	0.155	127	-64	187	164
As	75	0.046	ug/L	0.053	117	13015	10982	2
Se	82	0.167	ug/L	0.147	88	0	33	89
Se	78	-0.124	ug/L	0.239	193	13279	11048	0
Mo	98	0.217	ug/L	0.210	96	149	1736	90
Y	89		ug/L			353401	310778	0
Kr	83		ug/L			96	80	4
> In	115		ug/L			490660	425389	0
Ag	107	0.137	ug/L	0.153	111	207	2158	102
Cd	111	0.117	ug/L	0.151	128	247	628	85
Cd	114	0.120	ug/L	0.152	126	24	1017	124
Sb	121	0.226	ug/L	0.226	100	404	2985	88
Sb	123	0.215	ug/L	0.216	100	311	2151	88
Ba	135	0.133	ug/L	0.149	111	28	362	104
Ba	137	0.131	ug/L	0.155	117	59	608	108
> Tb	159		ug/L			396208	363513	1
Tl	205	0.125	ug/L	0.143	113	204	3725	109
Pb	208	0.116	ug/L	0.144	124	541	5053	113
Bi	209		ug/L			360078	313191	0
Th	232	0.371	ug/L	0.280	75	1275	19797	72
U	238	0.136	ug/L	0.156	114	173	7634	112

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 K RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:31:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	425642	0
[Be	9	0.008	ug/L	0.009	115	3	7	60
C	13		mg/L			5302	9492	2
Cl	37		mg/L			2959467	2730524	0
> Sc	45		ug/L			303483	310626	1
V-1	51	1.422	ug/L	0.030	2	2787	23978	0
V	51	1.455	ug/L	0.012	0	1908	24018	0
Cr	52	0.942	ug/L	0.038	4	8625	21015	2
Cr	53	1.074	ug/L	0.086	7	693	2387	6
Mn	55	68.429	ug/L	0.609	0	850	1549647	0
Co	59	0.220	ug/L	0.015	6	161	3931	6
> Ge	72		ug/L			439461	362799	1
Ni	60	4.658	ug/L	0.015	0	69	14116	1
Ni	62	3.759	ug/L	0.180	4	87	1788	6
Cu	63	5.685	ug/L	0.017	0	371	39230	1
Cu	65	5.594	ug/L	0.021	0	138	18496	1
Zn	66	24.113	ug/L	0.013	0	367	52922	1
Zn	67	22.367	ug/L	0.153	0	114	8363	1
Zn	68	24.339	ug/L	0.148	0	10988	46603	1
As-1	75	1.952	ug/L	0.024	1	-64	3710	1
As	75	1.701	ug/L	0.073	4	13015	14026	1
Se	82	0.478	ug/L	0.078	16	0	96	17
Se	78	-0.441	ug/L	0.171	38	13279	10736	1
Mo	98	0.968	ug/L	0.015	1	149	7153	3
Y	89		ug/L			353401	310586	1
Kr	83		ug/L			96	83	8
> In	115		ug/L			490660	412307	1
Ag	107	0.021	ug/L	0.017	79	207	467	51
Cd	111	0.041	ug/L	0.012	28	247	346	12
Cd	114	0.035	ug/L	0.010	28	24	304	28
Sb	121	0.810	ug/L	0.040	4	404	9462	5
Sb	123	0.809	ug/L	0.027	3	311	7074	4
Ba	135	31.789	ug/L	0.301	0	28	77609	1
Ba	137	31.884	ug/L	0.167	0	59	130362	1
> Tb	159		ug/L			396208	359157	1
Tl	205	0.015	ug/L	0.014	92	204	601	65
Pb	208	0.631	ug/L	0.012	1	541	24805	2
Bi	209		ug/L			360078	300625	2
Th	232	0.177	ug/L	0.099	56	1275	9901	50
U	238	0.106	ug/L	0.019	18	173	5845	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 L RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:37:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	410924	1
[Be	9	0.002	ug/L	0.006	265	3	4	62
C	13		mg/L			5302	7071	1
Cl	37		mg/L			2959467	2577762	0
> Sc	45		ug/L			303483	356951	0
V-1	51	2.215	ug/L	0.046	2	2787	41097	1
V	51	2.185	ug/L	0.044	2	1908	40326	1
Cr	52	0.418	ug/L	0.018	4	8625	16365	1
Cr	53	0.438	ug/L	0.008	1	693	1602	0
Mn	55	284.586	ug/L	5.157	1	850	7402553	1
Co	59	0.271	ug/L	0.012	4	161	5523	3
> Ge	72		ug/L			439461	341408	1
Ni	60	14.461	ug/L	0.282	1	69	41126	1
Ni	62	11.164	ug/L	0.280	2	87	4861	1
Cu	63	1.989	ug/L	0.030	1	371	13099	0
Cu	65	2.110	ug/L	0.009	0	138	6631	1
Zn	66	1.732	ug/L	0.027	1	367	3841	1
Zn	67	2.353	ug/L	0.099	4	114	907	4
Zn	68	3.257	ug/L	0.126	3	10988	13263	2
As-1	75	1.539	ug/L	0.015	0	-64	2740	0
As	75	1.212	ug/L	0.055	4	13015	12311	0
Se	82	1.162	ug/L	0.021	1	0	219	0
Se	78	-0.029	ug/L	0.136	471	13279	10302	0
Mo	98	0.338	ug/L	0.029	8	149	2430	8
Y	89		ug/L			353401	300831	1
Kr	83		ug/L			96	81	10
> In	115		ug/L			490660	382828	1
Ag	107	0.004	ug/L	0.008	198	207	212	47
Cd	111	0.058	ug/L	0.011	18	247	377	10
Cd	114	0.046	ug/L	0.007	14	24	362	15
Sb	121	0.265	ug/L	0.006	2	404	3090	3
Sb	123	0.268	ug/L	0.014	5	311	2342	6
Ba	135	30.103	ug/L	0.201	0	28	68239	1
Ba	137	29.898	ug/L	0.171	0	59	113512	1
> Tb	159		ug/L			396208	329828	0
Tl	205	0.010	ug/L	0.005	48	204	434	30
Pb	208	0.017	ug/L	0.010	62	541	1039	36
Bi	209		ug/L			360078	270242	0
Th	232	0.059	ug/L	0.031	53	1275	3722	39
U	238	1.822	ug/L	0.007	0	173	90036	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 M RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:44:21

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	412845	1
[Be	9	0.006	ug/L	0.003	47	3	6	20
C	13		mg/L			5302	9043	2
Cl	37		mg/L			2959467	2634853	1
[> Sc	45		ug/L			303483	329001	0
V-1	51	0.317	ug/L	0.007	2	2787	8005	0
V	51	0.308	ug/L	0.013	4	1908	7024	2
Cr	52	0.308	ug/L	0.006	1	8625	13578	0
Cr	53	0.283	ug/L	0.029	10	693	1220	3
Mn	55	5070.943	ug/L	25.224	0	850	121565661	0
Co	59	0.466	ug/L	0.012	2	161	8626	2
[> Ge	72		ug/L			439461	345592	0
Ni	60	4.523	ug/L	0.059	1	69	13057	0
Ni	62	1.698	ug/L	0.057	3	87	806	2
Cu	63	2.851	ug/L	0.019	0	371	18887	0
Cu	65	2.858	ug/L	0.023	0	138	9055	0
Zn	66	2.238	ug/L	0.028	1	367	4940	1
Zn	67	2.856	ug/L	0.181	6	114	1096	6
Zn	68	3.570	ug/L	0.076	2	10988	13885	1
As-1	75	0.886	ug/L	0.028	3	-64	1576	2
As	75	0.604	ug/L	0.044	7	13015	11345	0
Se	82	1.088	ug/L	0.127	11	0	207	11
Se	78	0.041	ug/L	0.171	419	13279	10462	0
[Mo	98	1.148	ug/L	0.022	1	149	8058	2
Y	89		ug/L			353401	289051	0
Kr	83		ug/L			96	78	2
[> In	115		ug/L			490660	383649	1
Ag	107	0.002	ug/L	0.003	165	207	182	19
Cd	111	0.028	ug/L	0.004	14	247	282	4
Cd	114	0.012	ug/L	0.002	13	24	107	11
Sb	121	0.143	ug/L	0.003	2	404	1815	1
Sb	123	0.141	ug/L	0.006	4	311	1345	4
Ba	135	38.752	ug/L	0.183	0	28	88024	0
[Ba	137	38.729	ug/L	0.223	0	59	147332	1
[> Tb	159		ug/L			396208	332951	1
Tl	205	0.001	ug/L	0.002	227	204	190	23
Pb	208	0.010	ug/L	0.001	13	541	804	6
Bi	209		ug/L			360078	275283	1
Th	232	0.030	ug/L	0.012	39	1275	2449	23
[U	238	0.074	ug/L	0.007	8	173	3816	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 N RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:50:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	405615	0
[Be	9	0.004	ug/L	0.004	98	3	5	35
C	13		mg/L			5302	6027	0
Cl	37		mg/L			2959467	2607511	0
[> Sc	45		ug/L			303483	371309	0
V-1	51	0.073	ug/L	0.012	16	2787	4707	3
V	51	0.097	ug/L	0.006	6	1908	4099	2
Cr	52	-0.151	ug/L	0.021	14	8625	8213	3
Cr	53	-0.062	ug/L	0.011	17	693	733	2
Mn	55	281.746	ug/L	18.040	6	850	7621861	5
Co	59	0.183	ug/L	0.014	7	161	3941	6
[> Ge	72		ug/L			439461	341886	0
Ni	60	3.295	ug/L	0.079	2	69	9426	1
Ni	62	0.824	ug/L	0.015	1	87	422	0
Cu	63	0.796	ug/L	0.024	2	371	5428	3
Cu	65	0.662	ug/L	0.018	2	138	2156	2
Zn	66	0.926	ug/L	0.025	2	367	2190	2
Zn	67	2.482	ug/L	0.179	7	114	954	7
Zn	68	3.486	ug/L	0.230	6	10988	13616	3
As-1	75	30.290	ug/L	0.291	0	-64	54977	0
As	75	29.927	ug/L	0.324	1	13015	64540	0
Se	82	0.998	ug/L	0.044	4	0	188	5
Se	78	-0.238	ug/L	0.095	40	13279	10216	0
Mo	98	1.700	ug/L	0.023	1	149	11749	0
Y	89		ug/L			353401	286328	1
Kr	83		ug/L			96	82	3
[> In	115		ug/L			490660	376164	0
Ag	107	-0.001	ug/L	0.003	249	207	145	24
Cd	111	0.005	ug/L	0.008	160	247	205	13
Cd	114	0.010	ug/L	0.001	9	24	89	6
Sb	121	0.007	ug/L	0.001	15	404	377	2
Sb	123	0.009	ug/L	0.005	56	311	307	13
Ba	135	68.201	ug/L	0.103	0	28	151884	0
Ba	137	67.910	ug/L	0.084	0	59	253276	0
[> Tb	159		ug/L			396208	327507	1
Tl	205	-0.000	ug/L	0.001	506	204	162	20
Pb	208	0.010	ug/L	0.002	20	541	797	9
Bi	209		ug/L			360078	267992	0
Th	232	0.025	ug/L	0.022	86	1275	2197	45
U	238	1.725	ug/L	0.020	1	173	84614	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 O RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 19:57:29

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	400965	0
[Be	9	0.009	ug/L	0.007	81	3	7	44
C	13		mg/L			5302	8844	0
Cl	37		mg/L			2959467	2621951	0
[> Sc	45		ug/L			303483	344928	1
V-1	51	1.726	ug/L	0.012	0	2787	31650	1
V	51	1.703	ug/L	0.018	1	1908	30848	0
Cr	52	0.145	ug/L	0.009	6	8625	11884	1
Cr	53	0.172	ug/L	0.052	30	693	1086	7
Mn	55	3693.877	ug/L	82.149	2	850	92821744	0
[Co	59	1.070	ug/L	0.006	0	161	20513	1
[> Ge	72		ug/L			439461	337784	0
Ni	60	8.969	ug/L	0.013	0	69	25259	0
Ni	62	6.311	ug/L	0.115	1	87	2748	2
Cu	63	1.114	ug/L	0.008	0	371	7386	0
Cu	65	1.103	ug/L	0.054	4	138	3478	3
Zn	66	1.287	ug/L	0.036	2	367	2896	2
Zn	67	3.112	ug/L	0.115	3	114	1159	4
Zn	68	3.407	ug/L	0.058	1	10988	13337	0
As-1	75	11.596	ug/L	0.080	0	-64	20766	1
As	75	11.149	ug/L	0.095	0	13015	30034	1
Se	82	1.418	ug/L	0.052	3	0	264	3
Se	78	-0.195	ug/L	0.108	55	13279	10114	0
[Mo	98	3.280	ug/L	0.029	0	149	22283	0
Y	89		ug/L			353401	295526	0
Kr	83		ug/L			96	81	5
[> In	115		ug/L			490660	371081	0
Ag	107	-0.004	ug/L	0.001	14	207	112	6
Cd	111	0.019	ug/L	0.008	41	247	246	9
Cd	114	0.006	ug/L	0.001	20	24	58	14
Sb	121	0.119	ug/L	0.002	1	404	1510	0
Sb	123	0.115	ug/L	0.007	5	311	1104	4
Ba	135	73.185	ug/L	0.201	0	28	160781	0
[Ba	137	73.383	ug/L	0.390	0	59	269986	0
[> Tb	159		ug/L			396208	320302	1
Tl	205	-0.003	ug/L	0.001	25	204	91	21
Pb	208	u 0.004	ug/L	0.001	27	541	565	7
Bi	209		ug/L			360078	263997	0
Th	232	0.023	ug/L	0.008	34	1275	2040	17
[U	238	1.109	ug/L	0.012	1	173	53279	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 Q RHN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:04:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L			392730	421353	0
[	Be	9	0.010	ug/L	0.005	53	3	8	31
	C	13		mg/L			5302	12619	0
	Cl	37		mg/L			2959467	2706658	0
[>	Sc	45		ug/L			303483	303135	0
[	V-1	51	1.947	ug/L	0.037	1	2787	31017	1
|	V	51	1.941	ug/L	0.046	2	1908	30636	2
|	Cr	52	0.592	ug/L	0.030	5	8625	16095	2
|	Cr	53	0.659	ug/L	0.043	6	693	1696	3
|	Mn	55	358.386	ug/L	18.999	5	850	7917453	5
[	Co	59	0.628	ug/L	0.017	2	161	10650	2
[>	Ge	72		ug/L			439461	339807	1
[	Ni	60	4.066	ug/L	0.152	3	69	11546	2
|	Ni	62	1.588	ug/L	0.068	4	87	745	3
|	Cu	63	5.065	ug/L	0.047	0	371	32762	0
|	Cu	65	5.019	ug/L	0.061	1	138	15551	0
|	Zn	66	1.238	ug/L	0.030	2	367	2814	2
|	Zn	67	3.160	ug/L	0.180	5	114	1182	5
|	Zn	68	3.019	ug/L	0.127	4	10988	12855	0
|	As-1	75	2.807	ug/L	0.044	1	-64	5020	2
|	As	75	2.517	ug/L	0.063	2	13015	14613	1
|	Se	82	0.975	ug/L	0.073	7	0	183	7
|	Se	78	-0.073	ug/L	0.236	325	13279	10232	0
[	Mo	98	0.731	ug/L	0.002	0	149	5084	1
	Y	89		ug/L			353401	307062	0
	Kr	83		ug/L			96	81	9
[>	In	115		ug/L			490660	381438	1
[	Ag	107	-0.000	ug/L	0.002	1525	207	159	19
|	Cd	111	0.104	ug/L	0.007	6	247	517	3
|	Cd	114	0.094	ug/L	0.005	5	24	717	5
|	Sb	121	0.384	ug/L	0.004	0	404	4310	1
|	Sb	123	0.370	ug/L	0.007	1	311	3125	0
|	Ba	135	73.319	ug/L	0.311	0	28	165573	1
[	Ba	137	74.150	ug/L	0.419	0	59	280412	0
[>	Tb	159		ug/L			396208	338458	1
|	Tl	205	0.013	ug/L	0.000	2	204	521	1
|	Pb	208	0.026	ug/L	0.002	6	541	1404	4
|	Bi	209		ug/L			360078	275937	0
|	Th	232	0.010	ug/L	0.009	88	1275	1551	27
[	U	238	0.109	ug/L	0.006	5	173	5685	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:10:38

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	425170	0
[Be	9	45.217	ug/L	0.659	1	3	21567	1
C	13		mg/L			5302	4545	2
Cl	37		mg/L			2959467	2591253	1
[> Sc	45		ug/L			303483	249504	0
V-1	51	49.501	ug/L	0.675	1	2787	593067	0
V	51	49.526	ug/L	0.727	1	1908	604994	1
Cr	52	49.662	ug/L	0.472	0	8625	523438	0
Cr	53	49.728	ug/L	0.664	1	693	62963	1
Mn	55	51.863	ug/L	1.463	2	850	943658	3
[Co	59	50.215	ug/L	0.370	0	161	690405	0
[> Ge	72		ug/L			439461	342837	0
Ni	60	51.341	ug/L	0.204	0	69	146495	0
Ni	62	51.103	ug/L	0.386	0	87	22107	0
Cu	63	51.981	ug/L	0.543	1	371	336587	1
Cu	65	51.270	ug/L	0.308	0	138	159301	0
Zn	66	51.690	ug/L	0.900	1	367	106875	1
Zn	67	51.205	ug/L	1.188	2	114	17978	2
Zn	68	51.225	ug/L	0.429	0	10988	83221	0
As-1	75	49.104	ug/L	0.430	0	-64	89408	0
As	75	48.828	ug/L	0.420	0	13015	99184	0
Se	82	49.134	ug/L	0.765	1	0	9314	1
Se	78	48.076	ug/L	0.474	0	13279	33592	0
[Mo	98	51.975	ug/L	0.281	0	149	356727	0
Y	89		ug/L			353401	294420	0
Kr	83		ug/L			96	76	3
[> In	115		ug/L			490660	401737	0
Ag	107	49.433	ug/L	0.391	0	207	672423	0
Cd	111	49.603	ug/L	0.443	0	247	164282	0
Cd	114	49.065	ug/L	0.683	1	24	382071	1
Sb	121	49.181	ug/L	0.532	1	404	539891	0
Sb	123	49.330	ug/L	0.508	1	311	405031	0
Ba	135	48.649	ug/L	0.158	0	28	115712	0
[Ba	137	49.223	ug/L	0.174	0	59	196078	1
[> Tb	159		ug/L			396208	354233	1
Tl	205	45.432	ug/L	0.667	1	204	1239758	0
Pb	208	45.838	ug/L	0.546	1	541	1741876	0
Bi	209		ug/L			360078	294906	0
Th	232	46.420	ug/L	0.834	1	1275	2256259	0
[U	238	46.558	ug/L	0.325	0	173	2466397	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:17:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	418336	0
[Be	9	0.129	ug/L	0.169	131	3	64	124
C	13		mg/L			5302	4787	0
Cl	37		mg/L			2959467	2692982	1
> Sc	45		ug/L			303483	250784	1
V-1	51	0.138	ug/L	0.171	123	2787	3948	50
V	51	0.107	ug/L	0.180	168	1908	2878	75
Cr	52	0.130	ug/L	0.173	133	8625	8471	20
Cr	53	0.034	ug/L	0.201	585	693	615	40
Mn	55	0.602	ug/L	0.542	89	850	11649	83
[Co	59	0.127	ug/L	0.176	138	161	1869	128
> Ge	72		ug/L			439461	347847	1
Ni	60	0.137	ug/L	0.184	134	69	458	118
Ni	62	0.122	ug/L	0.159	130	87	122	58
Cu	63	0.130	ug/L	0.196	150	371	1164	113
Cu	65	0.143	ug/L	0.184	129	138	565	105
Zn	66	0.114	ug/L	0.199	175	367	533	80
Zn	67	0.082	ug/L	0.170	207	114	120	52
Zn	68	-0.119	ug/L	0.083	69	10988	8522	3
As-1	75	0.143	ug/L	0.164	114	-64	216	142
As	75	0.231	ug/L	0.060	25	13015	10730	2
Se	82	0.199	ug/L	0.162	81	0	38	83
Se	78	0.538	ug/L	0.279	51	13279	10773	0
[Mo	98	0.251	ug/L	0.254	101	149	1883	96
Y	89		ug/L			353401	297230	0
Kr	83		ug/L			96	78	4
> In	115		ug/L			490660	405992	0
Ag	107	0.153	ug/L	0.181	118	207	2281	109
Cd	111	0.126	ug/L	0.170	135	247	625	91
Cd	114	0.132	ug/L	0.169	128	24	1062	125
Sb	121	0.247	ug/L	0.248	100	404	3077	89
Sb	123	0.247	ug/L	0.248	100	311	2309	89
Ba	135	0.158	ug/L	0.191	121	28	403	114
[Ba	137	0.155	ug/L	0.186	119	59	675	111
> Tb	159		ug/L			396208	350267	0
Tl	205	0.143	ug/L	0.169	117	204	4073	113
Pb	208	0.126	ug/L	0.159	126	541	5242	115
Bi	209		ug/L			360078	301909	0
Th	232	0.399	ug/L	0.314	78	1275	20391	75
[U	238	0.149	ug/L	0.180	120	173	8006	119

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:25:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	423953	1
[Be	9	0.005	ug/L	0.009	161	3	6	69
C	13		mg/L			5302	5793	2
Cl	37		mg/L			2959467	2685032	0
> Sc	45		ug/L			303483	254661	0
V-1	51	0.021	ug/L	0.016	76	2787	2590	7
V	51	-0.021	ug/L	0.014	66	1908	1335	13
Cr	52	0.042	ug/L	0.007	17	8625	7680	1
Cr	53	-0.090	ug/L	0.029	32	693	466	7
Mn	55	0.222	ug/L	0.120	54	850	4828	46
[Co	59	0.003	ug/L	0.013	435	161	179	105
> Ge	72		ug/L			439461	349214	0
Ni	60	0.030	ug/L	0.017	58	69	141	36
Ni	62	0.020	ug/L	0.047	238	87	77	26
Cu	63	0.027	ug/L	0.015	55	371	475	21
Cu	65	0.048	ug/L	0.012	23	138	263	14
Zn	66	1.187	ug/L	0.009	0	367	2784	0
Zn	67	1.044	ug/L	0.070	6	114	462	5
Zn	68	1.166	ug/L	0.060	5	10988	10463	1
As-1	75	0.016	ug/L	0.020	126	-64	-21	173
As	75	0.103	ug/L	0.020	19	13015	10534	0
Se	82	0.061	ug/L	0.024	38	0	11	39
Se	78	0.368	ug/L	0.045	12	13279	10733	0
[Mo	98	0.056	ug/L	0.044	78	149	512	60
Y	89		ug/L			353401	300071	0
Kr	83		ug/L			96	72	8
> In	115		ug/L			490660	409900	0
Ag	107	0.014	ug/L	0.014	102	207	362	53
Cd	111	0.013	ug/L	0.010	78	247	251	14
Cd	114	0.010	ug/L	0.011	113	24	99	90
Sb	121	0.027	ug/L	0.033	122	404	642	58
Sb	123	0.023	ug/L	0.031	134	311	456	58
Ba	135	0.029	ug/L	0.020	69	28	94	52
[Ba	137	0.026	ug/L	0.026	98	59	157	68
> Tb	159		ug/L			396208	356743	0
Tl	205	0.010	ug/L	0.012	121	204	467	74
Pb	208	0.013	ug/L	0.015	114	541	999	59
Bi	209		ug/L			360078	309185	1
Th	232	0.095	ug/L	0.060	63	1275	5828	51
[U	238	0.014	ug/L	0.017	120	173	931	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:31:40

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	421745	0
[Be	9	24.168	ug/L	0.220	0	3	11436	0
C	13		mg/L			5302	6462	1
Cl	37		mg/L			2959467	2689788	0
[> Sc	45		ug/L			303483	253421	1
V-1	51	26.922	ug/L	0.281	1	2787	328663	0
V	51	26.972	ug/L	0.422	1	1908	335353	0
Cr	52	27.169	ug/L	0.165	0	8625	294118	0
Cr	53	27.309	ug/L	0.706	2	693	35374	1
Mn	55	27.930	ug/L	0.567	2	850	516409	1
[Co	59	27.859	ug/L	0.448	1	161	389056	0
[> Ge	72		ug/L			439461	347201	0
Ni	60	28.597	ug/L	0.304	1	69	82662	1
Ni	62	28.661	ug/L	0.087	0	87	12587	0
Cu	63	29.385	ug/L	0.157	0	371	192826	0
Cu	65	29.762	ug/L	0.374	1	138	93700	1
Zn	66	88.789	ug/L	0.818	0	367	185712	1
Zn	67	80.972	ug/L	0.603	0	114	28740	1
Zn	68	86.007	ug/L	0.491	0	10988	135612	0
As-1	75	26.681	ug/L	0.304	1	-64	49175	0
As	75	26.406	ug/L	0.177	0	13015	59043	0
Se	82	81.467	ug/L	0.849	1	0	15639	0
Se	78	80.248	ug/L	0.460	0	13279	49765	0
[Mo	98	0.014	ug/L	0.010	72	149	218	33
Y	89		ug/L			353401	297732	0
Kr	83		ug/L			96	82	12
[> In	115		ug/L			490660	413496	0
Ag	107	26.453	ug/L	0.245	0	207	370460	0
Cd	111	26.605	ug/L	0.195	0	247	90792	0
Cd	114	26.399	ug/L	0.296	1	24	211602	0
Sb	121	-0.000	ug/L	0.008	3836	404	338	28
Sb	123	-0.001	ug/L	0.009	849	311	253	30
Ba	135	26.418	ug/L	0.100	0	28	64687	0
[Ba	137	26.602	ug/L	0.266	0	59	109091	1
[> Tb	159		ug/L			396208	357582	0
Tl	205	25.325	ug/L	0.243	0	204	697694	0
Pb	208	25.756	ug/L	0.164	0	541	988248	0
Bi	209		ug/L			360078	308460	0
Th	232	25.129	ug/L	0.402	1	1275	1233546	1
[U	238	25.201	ug/L	0.114	0	173	1347747	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 DDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:38:16

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	421702	0
[Be	9	0.065	ug/L	0.080	123	3	34	109
C	13		mg/L			5302	6780	1
Cl	37		mg/L			2959467	2641737	0
> Sc	45		ug/L			303483	299353	0
V-1	51	1.759	ug/L	0.081	4	2787	27924	3
V	51	1.810	ug/L	0.064	3	1908	28339	2
Cr	52	2.542	ug/L	0.049	1	8625	40214	0
Cr	53	2.652	ug/L	0.013	0	693	4676	0
Mn	55	4.851	ug/L	0.100	2	850	106634	1
Co	59	0.144	ug/L	0.081	55	161	2533	51
> Ge	72		ug/L			439461	345078	0
Ni	60	3.582	ug/L	0.042	1	69	10337	1
Ni	62	3.364	ug/L	0.012	0	87	1528	0
Cu	63	0.572	ug/L	0.099	17	371	4021	16
Cu	65	0.473	ug/L	0.090	19	138	1588	18
Zn	66	2.686	ug/L	0.299	11	367	5866	11
Zn	67	2.712	ug/L	0.425	15	114	1044	14
Zn	68	3.052	ug/L	0.370	12	10988	13107	4
As-1	75	0.527	ug/L	0.087	16	-64	916	18
As	75	0.511	ug/L	0.049	9	13015	11158	0
Se	82	0.337	ug/L	0.246	72	0	64	73
Se	78	0.289	ug/L	0.194	67	13279	10567	0
Mo	98	0.024	ug/L	0.005	22	149	284	13
Y	89		ug/L			353401	296139	0
Kr	83		ug/L			96	77	5
> In	115		ug/L			490660	403314	0
Ag	107	0.076	ug/L	0.085	112	207	1208	96
Cd	111	0.086	ug/L	0.097	112	247	489	65
Cd	114	0.076	ug/L	0.082	108	24	613	104
Sb	121	0.015	ug/L	0.002	10	404	495	3
Sb	123	0.015	ug/L	0.003	21	311	381	7
Ba	135	6.721	ug/L	0.088	1	28	16069	1
Ba	137	6.705	ug/L	0.071	1	59	26854	1
> Tb	159		ug/L			396208	355190	0
Tl	205	0.068	ug/L	0.083	121	204	2059	111
Pb	208	0.103	ug/L	0.080	78	541	4406	69
Bi	209	<i>h</i>	ug/L			360078	294494	0
Th	232	0.204	ug/L	0.152	74	1275	11071	67
U	238	0.081	ug/L	0.087	107	173	4486	103

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:44:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	417149	0
[Be	9	0.004	ug/L	0.004	102	3	5	35
C	13		mg/L			5302	6627	1
Cl	37		mg/L			2959467	2623708	0
> Sc	45		ug/L			303483	289818	0
V-1	51	1.707	ug/L	0.028	1	2787	26328	2
V	51	1.765	ug/L	0.027	1	1908	26812	2
Cr	52	2.515	ug/L	0.004	0	8625	38614	0
Cr	53	2.645	ug/L	0.016	0	693	4518	0
Mn	55	4.597	ug/L	0.077	1	850	97897	1
Co	59	0.089	ug/L	0.002	2	161	1571	2
> Ge	72		ug/L			439461	341645	1
Ni	60	3.486	ug/L	0.020	0	69	9962	1
Ni	62	3.241	ug/L	0.141	4	87	1460	4
Cu	63	0.469	ug/L	0.008	1	371	3311	2
Cu	65	0.395	ug/L	0.017	4	138	1328	2
Zn	66	2.392	ug/L	0.023	0	367	5201	1
Zn	67	2.369	ug/L	0.095	4	114	913	2
Zn	68	2.962	ug/L	0.140	4	10988	12842	0
As-1	75	0.429	ug/L	0.006	1	-64	728	0
As	75	0.522	ug/L	0.073	13	13015	11064	0
Se	82	0.134	ug/L	0.014	10	0	25	9
Se	78	0.465	ug/L	0.278	59	13279	10546	0
Mo	98	0.027	ug/L	0.004	15	149	298	10
Y	89		ug/L			353401	292060	0
Kr	83		ug/L			96	71	4
> In	115		ug/L			490660	395073	0
Ag	107	0.007	ug/L	0.006	91	207	256	32
Cd	111	0.015	ug/L	0.001	3	247	248	0
Cd	114	0.018	ug/L	0.004	23	24	157	20
Sb	121	0.007	ug/L	0.004	55	404	402	10
Sb	123	0.005	ug/L	0.003	67	311	292	10
Ba	135	6.627	ug/L	0.035	0	28	15520	1
Ba	137	6.656	ug/L	0.141	2	59	26116	2
> Tb	159		ug/L			396208	352660	1
Tl	205	0.005	ug/L	0.005	110	204	306	45
Pb	208	0.040	ug/L	0.006	16	541	2001	13
Bi	209		ug/L			360078	289940	0
Th	232	0.038	ug/L	0.019	49	1275	2970	31
U	238	0.016	ug/L	0.005	33	173	1000	29

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 DSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:51:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	417371	1
[Be	9	24.081	ug/L	0.396	1	3	11275	0
C	13		mg/L			5302	6772	2
Cl	37		mg/L			2959467	2617125	0
> Sc	45		ug/L			303483	293763	0
V-1	51	24.212	ug/L	0.190	0	2787	342915	0
V	51	24.313	ug/L	0.186	0	1908	350628	0
Cr	52	25.017	ug/L	0.338	1	8625	314613	1
Cr	53	25.280	ug/L	0.105	0	693	38018	0
Mn	55	27.250	ug/L	0.056	0	850	584127	0
Co	59	22.965	ug/L	0.380	1	161	371867	2
> Ge	72		ug/L			439461	342844	0
Ni	60	30.506	ug/L	0.425	1	69	87063	0
Ni	62	30.630	ug/L	0.132	0	87	13278	1
Cu	63	28.401	ug/L	0.383	1	371	184029	0
Cu	65	28.112	ug/L	0.197	0	138	87396	0
Zn	66	85.687	ug/L	0.973	1	367	176976	0
Zn	67	78.607	ug/L	1.510	1	114	27550	1
Zn	68	84.490	ug/L	0.481	0	10988	131697	0
As-1	75	26.500	ug/L	0.361	1	-64	48226	0
As	75	26.185	ug/L	0.493	1	13015	57896	0
Se	82	78.385	ug/L	0.604	0	0	14859	0
Se	78	77.008	ug/L	0.995	1	13279	47573	0
[Mo	98	0.023	ug/L	0.002	7	149	274	5
Y	89		ug/L			353401	293718	0
Kr	83		ug/L			96	78	5
> In	115		ug/L			490660	398390	1
Ag	107	25.610	ug/L	0.329	1	207	345519	0
Cd	111	26.367	ug/L	0.425	1	247	86686	0
Cd	114	25.956	ug/L	0.217	0	24	200445	0
Sb	121	0.005	ug/L	0.003	65	404	383	10
Sb	123	0.003	ug/L	0.001	48	311	275	3
Ba	135	33.277	ug/L	0.357	1	28	78493	0
[Ba	137	33.528	ug/L	0.419	1	59	132447	0
> Tb	159		ug/L			396208	358244	0
Tl	205	24.063	ug/L	0.105	0	204	664177	0
Pb	208	24.278	ug/L	0.135	0	541	933315	0
Bi	209		ug/L			360078	292783	0
Th	232	24.271	ug/L	0.216	0	1275	1193732	0
[U	238	24.247	ug/L	0.178	0	173	1299124	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~SF26 DPOST REN~~ *222222*

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 20:57:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	431265	1
[Be	9	22.617	ug/L	0.271	1	3	10943	1
C	13		mg/L			5302	6842	1
Cl	37		mg/L			2959467	2650481	0
> Sc	45		ug/L			303483	304242	1
V-1	51	22.941	ug/L	0.141	0	2787	336678	1
V	51	23.005	ug/L	0.084	0	1908	343716	1
Cr	52	23.778	ug/L	0.059	0	8625	310127	1
Cr	53	23.925	ug/L	0.369	1	693	37295	0
Mn	55	26.243	ug/L	0.149	0	850	582620	0
Co	59	21.591	ug/L	0.207	0	161	362052	0
> Ge	72		ug/L			439461	349039	1
Ni	60	29.786	ug/L	0.337	1	69	86545	0
Ni	62	29.268	ug/L	0.244	0	87	12920	0
Cu	63	27.561	ug/L	0.412	1	371	181820	1
Cu	65	27.398	ug/L	0.105	0	138	86718	0
Zn	66	83.342	ug/L	0.300	0	367	175261	1
Zn	67	76.154	ug/L	0.874	1	114	27175	0
Zn	68	81.685	ug/L	0.716	0	10988	129922	1
As-1	75	25.237	ug/L	0.116	0	-64	46759	1
As	75	24.705	ug/L	0.109	0	13015	56198	0
Se	82	74.478	ug/L	0.109	0	0	14374	0
Se	78	72.291	ug/L	0.716	0	13279	46112	0
Mo	98	0.028	ug/L	0.002	8	149	312	6
Y	89		ug/L			353401	298381	0
Kr	83		ug/L			96	78	11
> In	115		ug/L			490660	407630	0
Ag	107	23.611	ug/L	0.065	0	207	325988	0
Cd	111	24.613	ug/L	0.091	0	247	82820	0
Cd	114	24.485	ug/L	0.082	0	24	193484	0
Sb	121	0.006	ug/L	0.001	23	404	399	3
Sb	123	0.003	ug/L	0.002	56	311	285	5
Ba	135	31.739	ug/L	0.285	0	28	76609	1
Ba	137	31.893	ug/L	0.279	0	59	128925	1
> Tb	159		ug/L			396208	366341	0
Tl	205	22.653	ug/L	0.233	1	204	639449	1
Pb	208	22.884	ug/L	0.114	0	541	899655	1
Bi	209		ug/L			360078	298296	0
Th	232	22.650	ug/L	0.062	0	1275	1139311	0
U	238	22.733	ug/L	0.112	0	173	1245568	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:04:17

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

RRAS

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	407352	1
[Be	9	0.058	ug/L	0.090	154	3	30	137
C	13		mg/L			5302	6813	1
Cl	37		mg/L			2959467	2541440	0
> Sc	45		ug/L			303483	269863	1
V-1	51	0.606	ug/L	0.123	20	2787	10316	16
V	51	0.641	ug/L	0.108	16	1908	10153	15
Cr	52	0.389	ug/L	0.098	25	8625	12058	10
Cr	53	0.511	ug/L	0.057	11	693	1310	7
Mn	55	1.909	ug/L	0.116	6	850	38316	7
[Co	59	0.125	ug/L	0.088	70	161	2013	66
> Ge	72		ug/L			439461	326930	1
Ni	60	5.278	ug/L	0.080	1	69	14410	2
Ni	62	4.815	ug/L	0.352	7	87	2046	8
Cu	63	0.518	ug/L	0.105	20	371	3478	19
Cu	65	0.529	ug/L	0.103	19	138	1670	19
Zn	66	2.898	ug/L	0.382	13	367	5977	13
Zn	67	2.670	ug/L	0.195	7	114	975	7
Zn	68	3.406	ug/L	0.271	7	10988	12910	4
As-1	75	0.256	ug/L	0.115	45	-64	398	51
As	75	0.484	ug/L	0.122	25	13015	10525	2
Se	82	0.388	ug/L	0.246	63	0	70	64
Se	78	1.254	ug/L	0.291	23	13279	10457	1
[Mo	98	0.050	ug/L	0.007	14	149	441	10
Y	89		ug/L			353401	285207	1
Kr	83		ug/L			96	73	5
> In	115		ug/L			490660	384768	2
Ag	107	0.080	ug/L	0.097	121	207	1219	106
Cd	111	0.094	ug/L	0.091	96	247	493	60
Cd	114	0.112	ug/L	0.100	89	24	859	88
Sb	121	-0.005	ug/L	0.001	13	404	263	3
Sb	123	-0.006	ug/L	0.001	16	311	197	5
Ba	135	7.174	ug/L	0.203	2	28	16365	4
[Ba	137	7.274	ug/L	0.083	1	59	27793	2
> Tb	159		ug/L			396208	346831	1
Tl	205	0.074	ug/L	0.094	126	204	2174	116
Pb	208	0.096	ug/L	0.094	97	541	4062	87
Bi	209	✓	ug/L			360078	281133	1
Th	232	0.186	ug/L	0.152	81	1275	10028	73
[U	238	0.088	ug/L	0.096	109	173	4778	106

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:10:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	405144	1
[Be	9	0.004	ug/L	0.008	194	3	5	70
C	13		mg/L			5302	6545	3
Cl	37		mg/L			2959467	2522164	1
[> Sc	45		ug/L			303483	274625	0
| V-1	51	2.174	ug/L	0.039	1	2787	31078	1
| V	51	2.174	ug/L	0.039	1	1908	30888	1
| Cr	52	0.510	ug/L	0.008	1	8625	13637	0
| Cr	53	0.617	ug/L	0.016	2	693	1480	1
| Mn	55	0.515	ug/L	0.031	5	850	11077	5
[Co	59	0.066	ug/L	0.007	10	161	1138	8
[> Ge	72		ug/L			439461	325442	0
| Ni	60	2.840	ug/L	0.064	2	69	7740	2
| Ni	62	2.499	ug/L	0.054	2	87	1087	2
| Cu	63	0.411	ug/L	0.010	2	371	2797	1
| Cu	65	0.406	ug/L	0.022	5	138	1298	5
| Zn	66	1.418	ug/L	0.073	5	367	3048	5
| Zn	67	1.497	ug/L	0.069	4	114	581	3
| Zn	68	1.972	ug/L	0.139	7	10988	10865	2
| As-1	75	0.590	ug/L	0.022	3	-64	971	3
| As	75	0.832	ug/L	0.087	10	13015	11078	0
| Se	82	0.152	ug/L	0.035	23	0	27	22
| Se	78	1.114	ug/L	0.282	25	13279	10344	0
[Mo	98	0.161	ug/L	0.001	0	149	1160	0
| Y	89		ug/L			353401	282370	1
| Kr	83		ug/L			96	80	4
[> In	115		ug/L			490660	381677	0
| Ag	107	0.009	ug/L	0.009	95	207	276	40
| Cd	111	0.013	ug/L	0.011	90	247	232	15
| Cd	114	0.012	ug/L	0.005	43	24	111	36
| Sb	121	0.021	ug/L	0.004	17	404	532	7
| Sb	123	0.022	ug/L	0.001	6	311	413	2
| Ba	135	6.758	ug/L	0.073	1	28	15290	0
[Ba	137	6.878	ug/L	0.051	0	59	26071	0
[> Tb	159		ug/L			396208	346160	0
| Tl	205	0.004	ug/L	0.007	164	204	287	61
| Pb	208	0.017	ug/L	0.007	40	541	1110	22
| Bi	209		ug/L			360078	280426	0
| Th	232	0.043	ug/L	0.027	62	1275	3172	40
[U	238	0.029	ug/L	0.010	32	173	1664	29

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:17:19

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	400587	1
[Be	9	0.004	ug/L	0.003	78	3	5	25
C	13		mg/L			5302	6863	1
Cl	37		mg/L			2959467	2594400	1
> Sc	45		ug/L			303483	268683	0
V-1	51	0.116	ug/L	0.011	9	2787	3953	3
V	51	0.175	ug/L	0.006	3	1908	3990	2
Cr	52	0.017	ug/L	0.013	76	8625	7827	2
Cr	53	0.209	ug/L	0.032	15	693	896	4
Mn	55	283.417	ug/L	4.094	1	850	5549581	1
Co	59	0.103	ug/L	0.006	5	161	1671	5
> Ge	72		ug/L			439461	327557	1
Ni	60	1.625	ug/L	0.028	1	69	4480	1
Ni	62	1.273	ug/L	0.094	7	87	589	6
Cu	63	0.223	ug/L	0.006	2	371	1653	2
Cu	65	0.218	ug/L	0.002	0	138	750	0
Zn	66	2.640	ug/L	0.068	2	367	5475	3
Zn	67	2.801	ug/L	0.132	4	114	1020	3
Zn	68	3.370	ug/L	0.046	1	10988	12883	1
As-1	75	0.919	ug/L	0.013	1	-64	1551	0
As	75	1.169	ug/L	0.045	3	13015	11736	0
Se	82	0.149	ug/L	0.041	27	0	26	26
Se	78	1.119	ug/L	0.156	13	13279	10413	0
Mo	98	0.252	ug/L	0.005	2	149	1763	3
Y	89		ug/L			353401	279205	0
Kr	83		ug/L			96	77	3
> In	115		ug/L			490660	379129	1
Ag	107	0.001	ug/L	0.003	508	207	168	25
Cd	111	0.118	ug/L	0.015	12	247	560	9
Cd	114	0.117	ug/L	0.004	3	24	882	2
Sb	121	-0.011	ug/L	0.001	7	404	201	3
Sb	123	-0.011	ug/L	0.004	33	311	156	19
Ba	135	20.369	ug/L	0.173	0	28	45734	1
Ba	137	20.575	ug/L	0.096	0	59	77373	1
> Tb	159		ug/L			396208	339295	1
Tl	205	-0.001	ug/L	0.003	198	204	142	48
Pb	208	u 0.025	ug/L	0.004	14	541	1370	10
Bi	209		ug/L			360078	278506	1
Th	232	0.018	ug/L	0.011	59	1275	1934	27
U	238	0.005	ug/L	0.002	34	173	420	23

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF50 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:23:50

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	401999	2
[Be	9	0.001	ug/L	0.003	370	3	3	33
C	13		mg/L			5302	6591	0
Cl	37		mg/L			2959467	2527889	0
> Sc	45		ug/L			303483	274752	2
V-1	51	0.582	ug/L	0.021	3	2787	10171	3
V	51	0.625	ug/L	0.007	1	1908	10114	1
Cr	52	1.197	ug/L	0.022	1	8625	21515	2
Cr	53	1.292	ug/L	0.080	6	693	2413	4
Mn	55	61.633	ug/L	1.408	2	850	1235022	4
Co	59	0.096	ug/L	0.006	5	161	1600	6
> Ge	72		ug/L			439461	326849	2
Ni	60	6.704	ug/L	0.022	0	69	18281	2
Ni	62	6.282	ug/L	0.137	2	87	2648	3
Cu	63	0.478	ug/L	0.004	0	371	3223	2
Cu	65	0.462	ug/L	0.008	1	138	1469	0
Zn	66	130.225	ug/L	1.430	1	367	256242	1
Zn	67	115.085	ug/L	1.211	1	114	38412	1
Zn	68	128.153	ug/L	2.195	1	10988	186177	1
As-1	75	0.268	ug/L	0.020	7	-64	418	10
As	75	0.530	ug/L	0.112	21	13015	10597	0
Se	82	0.095	ug/L	0.004	4	0	17	6
Se	78	1.099	ug/L	0.473	43	13279	10379	0
[Mo	98	0.092	ug/L	0.004	3	149	710	3
Y	89		ug/L			353401	280324	2
Kr	83		ug/L			96	75	7
> In	115		ug/L			490660	382172	2
Ag	107	0.012	ug/L	0.001	10	207	311	5
Cd	111	0.017	ug/L	0.002	14	247	245	4
Cd	114	0.017	ug/L	0.002	11	24	146	10
Sb	121	0.016	ug/L	0.003	18	404	487	8
Sb	123	0.014	ug/L	0.002	13	311	352	4
Ba	135	4.448	ug/L	0.052	1	28	10087	3
Ba	137	4.418	ug/L	0.060	1	59	16786	3
> Tb	159		ug/L			396208	343269	3
Tl	205	-0.001	ug/L	0.001	59	204	149	13
Pb	208	0.012	ug/L	0.002	19	541	899	12
Bi	209		ug/L			360078	280738	2
Th	232	0.005	ug/L	0.005	114	1275	1327	21
[U	238	0.007	ug/L	0.001	11	173	519	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV9

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:30:23

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	414195	0
[Be	9	45.810	ug/L	0.415	0	3	21288	1
C	13		mg/L			5302	4813	2
Cl	37		mg/L			2959467	2608832	2
[> Sc	45		ug/L			303483	248017	1
V-1	51	49.409	ug/L	0.342	0	2787	588494	2
V	51	49.456	ug/L	0.426	0	1908	600604	2
Cr	52	49.704	ug/L	0.799	1	8625	520761	1
Cr	53	49.831	ug/L	0.510	1	693	62719	1
Mn	55	49.922	ug/L	0.594	1	850	902808	0
Co	59	50.207	ug/L	0.572	1	161	686270	2
[> Ge	72		ug/L			439461	343997	0
Ni	60	50.789	ug/L	0.707	1	69	145415	1
Ni	62	50.466	ug/L	0.987	1	87	21907	2
Cu	63	51.520	ug/L	0.806	1	371	334750	2
Cu	65	51.121	ug/L	0.860	1	138	159383	2
Zn	66	51.760	ug/L	0.578	1	367	107384	1
Zn	67	50.914	ug/L	0.467	0	114	17938	1
Zn	68	51.414	ug/L	0.186	0	10988	83778	0
As-1	75	48.705	ug/L	0.274	0	-64	88983	1
As	75	48.512	ug/L	0.307	0	13015	98945	1
Se	82	49.022	ug/L	0.257	0	0	9324	0
Se	78	48.323	ug/L	0.478	0	13279	33826	0
[Mo	98	51.588	ug/L	0.148	0	149	355274	0
Y	89		ug/L			353401	290920	0
Kr	83		ug/L			96	85	2
[> In	115		ug/L			490660	401558	0
Ag	107	49.553	ug/L	0.042	0	207	673782	0
Cd	111	49.428	ug/L	0.051	0	247	163640	0
Cd	114	49.087	ug/L	0.295	0	24	382100	1
Sb	121	48.889	ug/L	0.304	0	404	536493	1
Sb	123	49.296	ug/L	0.201	0	311	404610	1
Ba	135	48.851	ug/L	0.191	0	28	116146	1
[Ba	137	49.160	ug/L	0.257	0	59	195743	1
[> Tb	159		ug/L			396208	352257	1
Tl	205	45.780	ug/L	0.674	1	204	1242270	1
Pb	208	45.994	ug/L	0.613	1	541	1738080	1
Bi	209		ug/L			360078	293010	1
Th	232	46.303	ug/L	0.862	1	1275	2238122	1
[U	238	46.678	ug/L	0.525	1	173	2458931	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB9

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:37:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	424107	0
[Be	9	0.113	ug/L	0.171	150	3	57	141
C	13		mg/L			5302	4900	1
Cl	37		mg/L			2959467	2698453	1
> Sc	45		ug/L			303483	253379	0
V-1	51	0.146	ug/L	0.195	133	2787	4088	57
V	51	0.109	ug/L	0.188	172	1908	2935	78
Cr	52	0.133	ug/L	0.205	154	8625	8597	24
Cr	53	0.019	ug/L	0.184	973	693	602	38
Mn	55	0.244	ug/L	0.226	92	850	5206	79
Co	59	0.147	ug/L	0.206	140	161	2171	131
> Ge	72		ug/L			439461	352035	0
Ni	60	0.140	ug/L	0.189	135	69	466	119
Ni	62	0.111	ug/L	0.189	169	87	119	70
Cu	63	0.135	ug/L	0.202	149	371	1197	112
Cu	65	0.145	ug/L	0.200	137	138	574	111
Zn	66	0.133	ug/L	0.214	160	367	577	78
Zn	67	0.106	ug/L	0.264	249	114	130	73
Zn	68	0.097	ug/L	0.286	295	10988	8947	5
As-1	75	0.137	ug/L	0.213	155	-64	205	194
As	75	0.204	ug/L	0.207	101	13015	10809	3
Se	82	0.159	ug/L	0.201	126	0	30	127
Se	78	0.411	ug/L	0.196	47	13279	10841	1
[Mo	98	0.211	ug/L	0.235	111	149	1611	103
Y	89		ug/L			353401	302143	0
Kr	83		ug/L			96	77	2
> In	115		ug/L			490660	416051	0
Ag	107	0.159	ug/L	0.190	118	207	2414	110
Cd	111	0.146	ug/L	0.190	129	247	710	91
Cd	114	0.138	ug/L	0.182	132	24	1129	129
Sb	121	0.236	ug/L	0.259	109	404	3021	97
Sb	123	0.231	ug/L	0.246	106	311	2222	93
Ba	135	0.141	ug/L	0.177	125	28	370	117
[Ba	137	0.141	ug/L	0.188	132	59	631	122
> Tb	159		ug/L			396208	361380	0
Tl	205	0.146	ug/L	0.184	125	204	4278	120
Pb	208	0.133	ug/L	0.175	131	541	5692	120
Bi	209		ug/L			360078	306809	0
Th	232	0.391	ug/L	0.307	78	1275	20623	74
[U	238	0.148	ug/L	0.183	123	173	8186	121

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF50 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:44:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

RRAS

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	413543	1
[Be	9	0.028	ug/L	0.027	95	3	16	76
C	13		mg/L			5302	9766	1
Cl	37		mg/L			2959467	2622568	0
> Sc	45		ug/L			303483	290737	1
V-1	51	0.732	ug/L	0.019	2	2787	12849	3
V	51	0.690	ug/L	0.025	3	1908	11626	4
Cr	52	0.656	ug/L	0.018	2	8625	16211	1
Cr	53	0.531	ug/L	0.016	3	693	1440	2
Mn	55	2304.782	ug/L	44.201	1	850	48820534	0
[Co	59	1.294	ug/L	0.019	1	161	20884	1
> Ge	72		ug/L			439461	349695	0
Ni	60	6.019	ug/L	0.064	1	69	17567	0
Ni	62	5.342	ug/L	0.198	3	87	2419	4
Cu	63	5.192	ug/L	0.089	1	371	34552	0
Cu	65	5.204	ug/L	0.019	0	138	16592	0
Zn	66	3.436	ug/L	0.067	1	367	7518	1
Zn	67	3.138	ug/L	0.090	2	114	1209	2
Zn	68	3.760	ug/L	0.027	0	10988	14333	0
As-1	75	0.593	ug/L	0.013	2	-64	1050	3
As	75	0.558	ug/L	0.044	7	13015	11395	1
Se	82	0.192	ug/L	0.016	8	0	37	7
Se	78	0.082	ug/L	0.147	178	13279	10607	0
[Mo	98	0.215	ug/L	0.026	12	149	1628	12
Y	89		ug/L			353401	315478	0
Kr	83		ug/L			96	80	10
> In	115		ug/L			490660	404243	0
Ag	107	0.043	ug/L	0.026	59	207	761	46
Cd	111	0.086	ug/L	0.016	18	247	490	10
Cd	114	0.072	ug/L	0.026	36	24	587	34
Sb	121	0.123	ug/L	0.047	38	404	1690	30
Sb	123	0.127	ug/L	0.052	41	311	1303	32
Ba	135	7.500	ug/L	0.062	0	28	17969	0
[Ba	137	7.517	ug/L	0.113	1	59	30173	1
> Tb	159		ug/L			396208	353866	0
Tl	205	0.020	ug/L	0.022	105	204	743	80
Pb	208	0.105	ug/L	0.027	25	541	4477	23
Bi	209		ug/L			360078	299420	1
Th	232	0.156	ug/L	0.095	61	1275	8711	53
[U	238	0.079	ug/L	0.031	39	173	4327	38

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF50 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:51:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	408575	0
[Be	9	0.011	ug/L	0.008	74	3	8	43
C	13		mg/L			5302	6717	0
Cl	37		mg/L			2959467	2558291	0
[> Sc	45		ug/L			303483	291941	0
V-1	51	0.803	ug/L	0.018	2	2787	13900	1
V	51	0.805	ug/L	0.008	0	1908	13317	0
Cr	52	0.720	ug/L	0.022	3	8625	17052	1
Cr	53	0.731	ug/L	0.042	5	693	1740	3
Mn	55	25.956	ug/L	11.754	45	850	552369	44
[Co	59	0.155	ug/L	0.006	3	161	2642	3
[> Ge	72		ug/L			439461	335349	1
Ni	60	5.860	ug/L	0.111	1	69	16402	2
Ni	62	5.539	ug/L	0.113	2	87	2403	1
Cu	63	0.660	ug/L	0.038	5	371	4459	6
Cu	65	0.715	ug/L	0.019	2	138	2277	3
Zn	66	1.543	ug/L	0.020	1	367	3391	1
Zn	67	1.516	ug/L	0.058	3	114	605	4
Zn	68	1.978	ug/L	0.170	8	10988	11204	2
As-1	75	0.426	ug/L	0.021	4	-64	709	5
As	75	0.469	ug/L	0.028	5	13015	10768	1
Se	82	0.144	ug/L	0.011	7	0	26	6
Se	78	0.314	ug/L	0.050	16	13279	10281	0
[Mo	98	0.030	ug/L	0.009	29	149	313	19
Y	89		ug/L			353401	290673	0
Kr	83		ug/L			96	74	2
[> In	115		ug/L			490660	389579	0
Ag	107	0.006	ug/L	0.007	114	207	250	39
Cd	111	0.033	ug/L	0.007	21	247	302	8
Cd	114	0.030	ug/L	0.009	30	24	246	28
Sb	121	0.074	ug/L	0.012	16	404	1106	12
Sb	123	0.074	ug/L	0.014	19	311	838	13
Ba	135	7.763	ug/L	0.237	3	28	17926	3
Ba	137	7.762	ug/L	0.065	0	59	30023	1
[> Tb	159		ug/L			396208	350068	0
Tl	205	0.004	ug/L	0.006	149	204	292	57
Pb	208	0.054	ug/L	0.008	15	541	2507	12
Bi	209		ug/L			360078	285122	1
Th	232	0.046	ug/L	0.033	72	1275	3316	48
[U	238	0.025	ug/L	0.008	31	173	1453	28

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF50 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 21:57:53

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	414224	1
[Be	9	0.010	ug/L	0.004	41	3	8	22
C	13		mg/L			5302	6652	2
Cl	37		mg/L			2959467	2529340	0
[> Sc	45		ug/L			303483	279465	0
V-1	51	2.382	ug/L	0.025	1	2787	34407	1
V	51	2.359	ug/L	0.024	1	1908	33958	1
Cr	52	0.571	ug/L	0.004	0	8625	14596	0
Cr	53	0.617	ug/L	0.025	4	693	1506	2
Mn	55	31.880	ug/L	0.708	2	850	650040	2
[Co	59	1.123	ug/L	0.015	1	161	17436	1
[> Ge	72		ug/L			439461	333871	1
Ni	60	19.723	ug/L	0.317	1	69	54840	2
Ni	62	19.275	ug/L	0.229	1	87	8162	2
Cu	63	0.540	ug/L	0.005	0	371	3688	2
Cu	65	0.565	ug/L	0.010	1	138	1815	3
Zn	66	3.444	ug/L	0.050	1	367	7196	2
Zn	67	3.296	ug/L	0.008	0	114	1208	1
Zn	68	3.641	ug/L	0.155	4	10988	13512	0
As-1	75	0.939	ug/L	0.015	1	-64	1616	3
As	75	0.937	ug/L	0.080	8	13015	11551	1
Se	82	0.394	ug/L	0.049	12	0	72	14
Se	78	0.399	ug/L	0.358	89	13279	10274	1
[Mo	98	0.268	ug/L	0.012	4	149	1904	5
Y	89		ug/L			353401	289872	1
Kr	83		ug/L			96	75	8
[> In	115		ug/L			490660	392208	1
Ag	107	0.001	ug/L	0.004	375	207	181	33
Cd	111	0.037	ug/L	0.002	6	247	316	2
Cd	114	0.046	ug/L	0.008	16	24	373	17
Sb	121	0.108	ug/L	0.010	9	404	1481	8
Sb	123	0.107	ug/L	0.009	7	311	1107	7
Ba	135	8.956	ug/L	0.148	1	28	20815	2
[Ba	137	9.087	ug/L	0.082	0	59	35377	1
[> Tb	159		ug/L			396208	353595	1
Tl	205	0.003	ug/L	0.004	133	204	272	45
Pb	208	0.095	ug/L	0.003	3	541	4081	4
Bi	209		ug/L			360078	287850	1
Th	232	0.017	ug/L	0.014	85	1275	1945	36
[U	238	0.013	ug/L	0.004	29	173	855	25

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF50 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:04:27

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	435306	1
[Be	9	0.000	ug/L	0.002	2728	3	3	33
C	13		mg/L			5302	6629	1
Cl	37		mg/L			2959467	2517732	1
[> Sc	45		ug/L			303483	284679	0
V-1	51	2.198	ug/L	0.024	1	2787	32549	1
V	51	2.142	ug/L	0.004	0	1908	31575	0
Cr	52	0.439	ug/L	0.014	3	8625	13296	1
Cr	53	0.378	ug/L	0.058	15	693	1191	6
Mn	55	5.865	ug/L	0.192	3	850	122454	2
Co	59	0.084	ug/L	0.001	1	161	1464	1
[> Ge	72		ug/L			439461	347475	1
Ni	60	2.990	ug/L	0.074	2	69	8698	2
Ni	62	2.630	ug/L	0.079	2	87	1218	1
Cu	63	0.439	ug/L	0.004	0	371	3173	1
Cu	65	0.505	ug/L	0.008	1	138	1698	2
Zn	66	1.219	ug/L	0.016	1	367	2838	0
Zn	67	1.319	ug/L	0.028	2	114	557	3
Zn	68	1.121	ug/L	0.129	11	10988	10343	0
As-1	75	0.516	ug/L	0.020	3	-64	901	2
As	75	0.257	ug/L	0.130	50	13015	10764	1
Se	82	0.140	ug/L	0.023	16	0	26	16
Se	78	-0.861	ug/L	0.446	51	13279	10076	0
Mo	98	0.037	ug/L	0.003	6	149	379	3
Y	89		ug/L			353401	300135	1
Kr	83		ug/L			96	70	7
[> In	115		ug/L			490660	409164	0
Ag	107	-0.003	ug/L	0.001	48	207	137	12
Cd	111	0.016	ug/L	0.006	36	247	259	8
Cd	114	0.024	ug/L	0.002	7	24	210	6
Sb	121	0.037	ug/L	0.005	12	404	748	6
Sb	123	0.037	ug/L	0.004	11	311	572	5
Ba	135	4.118	ug/L	0.042	1	28	9998	0
Ba	137	4.155	ug/L	0.071	1	59	16901	1
[> Tb	159		ug/L			396208	372620	0
Tl	205	0.001	ug/L	0.001	86	204	215	8
Pb	208	0.034	ug/L	0.002	4	541	1884	2
Bi	209		ug/L			360078	300255	1
Th	232	0.004	ug/L	0.004	102	1275	1412	15
U	238	0.003	ug/L	0.001	31	173	338	15

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF76 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:11:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	408418	1
[Be	9	0.006	ug/L	0.008	136	3	6	60
C	13		mg/L			5302	6742	1
Cl	37		mg/L			2959467	2600153	1
> Sc	45		ug/L			303483	303209	0
V-1	51	0.751	ug/L	0.009	1	2787	13674	0
V	51	0.734	ug/L	0.016	2	1908	12778	1
Cr	52	0.271	ug/L	0.007	2	8625	12042	1
Cr	53	0.250	ug/L	0.021	8	693	1074	2
Mn	55	14093.806	ug/L	39.987	0	850	311385474	0
Co	59	3.151	ug/L	0.021	0	161	52793	0
> Ge	72		ug/L			439461	340970	0
Ni	60	8.877	ug/L	0.172	1	69	25235	1
Ni	62	8.024	ug/L	0.094	1	87	3509	1
Cu	63	0.949	ug/L	0.014	1	371	6392	0
Cu	65	0.930	ug/L	0.023	2	138	2980	2
Zn	66	4.904	ug/L	0.034	0	367	10343	0
Zn	67	5.712	ug/L	0.119	2	114	2073	1
Zn	68	6.004	ug/L	0.076	1	10988	17226	0
As-1	75	5.395	ug/L	0.036	0	-64	9724	0
As	75	5.243	ug/L	0.100	1	13015	19605	0
Se	82	0.361	ug/L	0.024	6	0	67	6
Se	78	-0.185	ug/L	0.285	154	13279	10214	0
Mo	98	1.790	ug/L	0.004	0	149	12332	0
Y	89		ug/L			353401	309978	0
Kr	83		ug/L			96	76	1
> In	115		ug/L			490660	391798	0
Ag	107	0.005	ug/L	0.003	55	207	227	14
Cd	111	0.149	ug/L	0.015	10	247	677	7
Cd	114	0.086	ug/L	0.003	2	24	675	3
Sb	121	0.050	ug/L	0.003	6	404	862	3
Sb	123	0.049	ug/L	0.008	16	311	636	9
Ba	135	55.500	ug/L	0.613	1	28	128735	0
Ba	137	55.370	ug/L	0.385	0	59	215095	0
> Tb	159		ug/L			396208	347702	0
Tl	205	0.004	ug/L	0.002	49	204	290	18
Pb	208	0.228	ug/L	0.004	1	541	8969	0
Bi	209		ug/L			360078	285096	0
Th	232	0.007	ug/L	0.005	75	1275	1449	17
U	238	0.194	ug/L	0.005	2	173	10217	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF76 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:17:35

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	443606	3
[Be	9	-0.003	ug/L	0.004	114	3	2	91
C	13		mg/L			5302	6644	1
Cl	37		mg/L			2959467	2590868	1
> Sc	45		ug/L			303483	286759	1
V-1	51	0.323	ug/L	0.012	3	2787	7064	3
V	51	0.300	ug/L	0.006	2	1908	5998	1
Cr	52	0.583	ug/L	0.003	0	8625	15122	1
Cr	53	0.494	ug/L	0.035	7	693	1368	2
Mn	55	55.251	ug/L	76.818	139	850	1156065	139
Co	59	0.121	ug/L	0.027	22	161	2061	21
> Ge	72		ug/L			439461	354599	2
Ni	60	1.069	ug/L	0.021	1	69	3210	4
Ni	62	0.854	ug/L	0.042	4	87	451	4
Cu	63	0.455	ug/L	0.001	0	371	3344	2
Cu	65	0.457	ug/L	0.019	4	138	1578	3
Zn	66	1.094	ug/L	0.054	4	367	2632	6
Zn	67	1.088	ug/L	0.110	10	114	486	10
Zn	68	1.054	ug/L	0.088	8	10988	10454	2
As-1	75	0.159	ug/L	0.022	14	-64	249	19
As	75	0.121	ug/L	0.114	94	13015	10270	1
Se	82	0.103	ug/L	0.020	19	0	20	19
Se	78	-0.990	ug/L	0.464	46	13279	10216	0
Mo	98	0.051	ug/L	0.006	12	149	485	11
Y	89		ug/L			353401	307530	2
Kr	83		ug/L			96	70	1
> In	115		ug/L			490660	417501	1
Ag	107	-0.005	ug/L	0.001	18	207	112	12
Cd	111	0.021	ug/L	0.006	26	247	282	7
Cd	114	0.009	ug/L	0.001	8	24	96	8
Sb	121	0.034	ug/L	0.003	9	404	728	6
Sb	123	0.034	ug/L	0.007	19	311	554	11
Ba	135	7.372	ug/L	0.303	4	28	18248	5
Ba	137	7.345	ug/L	0.283	3	59	30457	5
> Tb	159		ug/L			396208	379979	1
Tl	205	-0.003	ug/L	0.000	15	204	111	13
Pb	208	0.034	ug/L	0.001	4	541	1903	4
Bi	209		ug/L			360078	312068	1
Th	232	0.010	ug/L	0.004	35	1275	1753	12
U	238	0.003	ug/L	0.001	44	173	337	23

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF76 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:24:10

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	447963	0
[Be	9	-0.001	ug/L	0.001	149	3	3	21
C	13		mg/L			5302	6433	0
Cl	37		mg/L			2959467	2622999	0
[> Sc	45		ug/L			303483	306715	1
V-1	51	1.000	ug/L	0.013	1	2787	17485	0
V	51	0.994	ug/L	0.009	0	1908	16819	1
Cr	52	0.142	ug/L	0.015	10	8625	10530	0
Cr	53	0.179	ug/L	0.011	6	693	976	2
Mn	55	4.875	ug/L	1.800	36	850	110120	37
[Co	59	0.071	ug/L	0.001	1	161	1357	0
[> Ge	72		ug/L			439461	355985	1
Ni	60	6.850	ug/L	0.146	2	69	20342	2
Ni	62	6.451	ug/L	0.137	2	87	2959	3
Cu	63	0.818	ug/L	0.017	2	371	5793	2
Cu	65	0.787	ug/L	0.005	0	138	2649	1
Zn	66	1.295	ug/L	0.012	0	367	3069	1
Zn	67	1.357	ug/L	0.028	2	114	585	2
Zn	68	1.201	ug/L	0.023	1	10988	10718	1
As-1	75	0.257	ug/L	0.008	3	-64	433	3
As	75	-0.159	ug/L	0.030	18	13015	10241	1
Se	82	0.224	ug/L	0.037	16	0	43	15
Se	78	-1.344	ug/L	0.119	8	13279	10081	1
[Mo	98	0.040	ug/L	0.006	14	149	409	12
Y	89		ug/L			353401	308059	1
Kr	83		ug/L			96	77	5
[> In	115		ug/L			490660	413512	1
Ag	107	-0.006	ug/L	0.002	25	207	90	23
Cd	111	0.016	ug/L	0.005	30	247	263	5
Cd	114	0.017	ug/L	0.002	9	24	159	9
Sb	121	0.013	ug/L	0.001	8	404	492	3
Sb	123	0.012	ug/L	0.002	17	311	361	5
Ba	135	10.860	ug/L	0.058	0	28	26608	1
[Ba	137	11.062	ug/L	0.061	0	59	45395	1
[> Tb	159		ug/L			396208	374610	1
Tl	205	-0.004	ug/L	0.000	9	204	81	15
Pb	208	0.007	ug/L	0.001	16	541	791	7
Bi	209		ug/L			360078	303375	1
Th	232	-0.008	ug/L	0.004	45	1275	790	25
[U	238	0.029	ug/L	0.000	1	173	1792	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF76 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:30:46

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	442536	0
[Be	9	0.004	ug/L	0.003	71	3	5	24
C	13		mg/L			5302	7933	3
Cl	37		mg/L			2959467	2566223	1
[> Sc	45		ug/L			303483	310709	1
V-1	51	1.507	ug/L	0.017	1	2787	25246	0
V	51	1.502	ug/L	0.016	1	1908	24739	0
Cr	52	1.049	ug/L	0.015	1	8625	22409	1
Cr	53	1.062	ug/L	0.007	0	693	2370	1
Mn	55	93.423	ug/L	0.938	1	850	2115922	1
[Co	59	0.130	ug/L	0.001	0	161	2390	2
[> Ge	72		ug/L			439461	353042	0
Ni	60	7.723	ug/L	0.112	1	69	22738	1
Ni	62	7.284	ug/L	0.251	3	87	3305	3
Cu	63	2.736	ug/L	0.060	2	371	18525	1
Cu	65	2.748	ug/L	0.100	3	138	8897	3
Zn	66	1.400	ug/L	0.013	0	367	3267	0
Zn	67	1.446	ug/L	0.096	6	114	612	5
Zn	68	1.454	ug/L	0.150	10	10988	11008	1
As-1	75	0.644	ug/L	0.003	0	-64	1156	0
As	75	0.309	ug/L	0.010	3	13015	11035	0
Se	82	0.507	ug/L	0.060	11	0	98	11
Se	78	-0.770	ug/L	0.075	9	13279	10284	0
[Mo	98	0.115	ug/L	0.002	1	149	930	1
Y	89		ug/L			353401	310523	1
Kr	83		ug/L			96	74	11
[> In	115		ug/L			490660	412245	0
Ag	107	-0.001	ug/L	0.000	54	207	161	3
Cd	111	0.073	ug/L	0.010	14	247	456	8
Cd	114	0.048	ug/L	0.002	4	24	403	3
Sb	121	0.131	ug/L	0.004	2	404	1812	1
Sb	123	0.140	ug/L	0.007	4	311	1437	3
Ba	135	3.696	ug/L	0.024	0	28	9042	0
[Ba	137	3.651	ug/L	0.058	1	59	14969	1
[> Tb	159		ug/L			396208	373833	0
Tl	205	-0.003	ug/L	0.000	13	204	98	13
Pb	208	0.041	ug/L	0.000	1	541	2152	1
Bi	209		ug/L			360078	303780	0
Th	232	0.008	ug/L	0.001	11	1275	1594	2
[U	238	0.025	ug/L	0.001	5	173	1555	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF76 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:37:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	379233	1
[Be	9	0.005	ug/L	0.004	67	3	5	26
C	13		mg/L			5302	7286	1
Cl	37		mg/L			2959467	2544787	1
[> Sc	45		ug/L			303483	280343	2
V-1	51	0.436	ug/L	0.009	2	2787	8426	3
V	51	0.426	ug/L	0.013	3	1908	7594	1
Cr	52	0.245	ug/L	0.010	4	8625	10833	1
Cr	53	0.226	ug/L	0.049	21	693	958	5
Mn	55	269.187	ug/L	0.349	0	850	5499608	2
[Co	59	0.252	ug/L	0.001	0	161	4044	1
[> Ge	72		ug/L			439461	312356	0
Ni	60	0.790	ug/L	0.032	4	69	2103	4
Ni	62	1.558	ug/L	0.306	19	87	674	18
Cu	63	3.538	ug/L	0.052	1	371	21118	1
Cu	65	1.157	ug/L	0.008	0	138	3370	0
Zn	66	1.787	ug/L	0.016	0	367	3619	1
Zn	67	1.766	ug/L	0.101	5	114	643	4
Zn	68	2.689	ug/L	0.034	1	10988	11379	0
As-1	75	11.663	ug/L	0.114	0	-64	19312	1
As	75	12.003	ug/L	0.104	0	13015	29190	0
Se	82	0.201	ug/L	0.064	31	0	34	31
Se	78	1.550	ug/L	0.187	12	13279	10120	0
[Mo	98	0.163	ug/L	0.011	6	149	1128	6
Y	89		ug/L			353401	268967	0
Kr	83		ug/L			96	74	8
[> In	115		ug/L			490660	352392	1
Ag	107	-0.004	ug/L	0.001	15	207	97	7
Cd	111	-0.092	ug/L	0.030	32	247	-89	96
Cd	114	0.010	ug/L	0.002	23	24	83	18
Sb	121	0.159	ug/L	0.002	1	404	1820	0
Sb	123	0.157	ug/L	0.003	2	311	1351	2
Ba	135	6.530	ug/L	0.035	0	28	13640	0
[Ba	137	6.572	ug/L	0.018	0	59	23002	1
[> Tb	159		ug/L			396208	319940	1
Tl	205	-0.003	ug/L	0.000	3	204	81	2
Pb	208	0.118	ug/L	0.001	1	541	4472	0
Bi	209		ug/L			360078	253509	0
Th	232	-0.004	ug/L	0.003	81	1275	867	15
[U	238	0.063	ug/L	0.001	2	173	3168	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF76 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:43:46

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			392730	447365	1
[Be	9	-0.001	ug/L	0.008	856	3	3	114
C	13		mg/L			5302	7597	0
Cl	37		mg/L			2959467	2710436	1
[> Sc	45		ug/L			303483	342636	2
V-1	51	0.409	ug/L	0.006	1	2787	9854	3
V	51	0.393	ug/L	0.001	0	1908	8737	2
Cr	52	0.211	ug/L	0.013	6	8625	12746	1
Cr	53	0.174	ug/L	0.033	18	693	1083	3
Mn	55	272.616	ug/L	4.062	1	850	6805873	1
Co	59	0.264	ug/L	0.004	1	161	5158	3
[> Ge	72		ug/L			439461	354260	0
Ni	60	0.892	ug/L	0.024	2	69	2686	2
Ni	62	1.827	ug/L	0.283	15	87	884	13
Cu	63	3.712	ug/L	0.029	0	371	25118	1
Cu	65	1.240	ug/L	0.041	3	138	4092	3
Zn	66	1.762	ug/L	0.035	1	367	4050	1
Zn	67	1.707	ug/L	0.136	7	114	708	7
Zn	68	1.881	ug/L	0.129	6	10988	11689	1
As-1	75	11.866	ug/L	0.063	0	-64	22285	0
As	75	11.358	ug/L	0.083	0	13015	31892	0
Se	82	0.228	ug/L	0.046	20	0	44	20
Se	78	-1.684	ug/L	0.148	8	13279	9863	0
Mo	98	0.163	ug/L	0.005	3	149	1277	2
Y	89		ug/L			353401	303896	0
Kr	83		ug/L			96	69	9
[> In	115		ug/L			490660	402756	1
Ag	107	-0.005	ug/L	0.001	25	207	99	18
Cd	111	-0.070	ug/L	0.019	27	247	-29	217
Cd	114	0.008	ug/L	0.002	21	24	86	16
Sb	121	0.162	ug/L	0.005	2	404	2113	1
Sb	123	0.154	ug/L	0.009	5	311	1526	4
Ba	135	6.516	ug/L	0.118	1	28	15559	2
Ba	137	6.519	ug/L	0.057	0	59	26074	0
[> Tb	159		ug/L			396208	364551	1
Tl	205	-0.003	ug/L	0.001	15	204	94	15
Pb	208	0.112	ug/L	0.001	0	541	4878	1
Bi	209		ug/L			360078	287359	0
Th	232	-0.002	ug/L	0.003	128	1275	1063	13
U	238	0.066	ug/L	0.002	2	173	3743	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV10

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:50:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	445252	2
[Be	9	45.424	ug/L	0.447	0	3	22687	2
C	13		mg/L			5302	4842	1
Cl	37		mg/L			2959467	2623092	0
> Sc	45		ug/L			303483	264533	1
V-1	51	48.590	ug/L	0.364	0	2787	617295	2
V	51	48.683	ug/L	0.175	0	1908	630568	1
Cr	52	48.903	ug/L	0.184	0	8625	546640	2
Cr	53	49.174	ug/L	0.564	1	693	66015	1
Mn	55	51.141	ug/L	1.900	3	850	986953	5
Co	59	49.354	ug/L	0.430	0	161	719406	1
> Ge	72		ug/L			439461	359512	2
Ni	60	50.967	ug/L	0.297	0	69	152487	1
Ni	62	51.217	ug/L	0.628	1	87	23235	2
Cu	63	51.780	ug/L	0.240	0	371	351572	1
Cu	65	51.452	ug/L	0.378	0	138	167624	1
Zn	66	51.714	ug/L	0.645	1	367	112110	1
Zn	67	51.198	ug/L	0.542	1	114	18850	2
Zn	68	50.481	ug/L	0.559	1	10988	86125	1
As-1	75	48.497	ug/L	0.107	0	-64	92595	2
As	75	48.040	ug/L	0.231	0	13015	102498	2
Se	82	48.592	ug/L	0.690	1	0	9657	0
Se	78	46.862	ug/L	1.091	2	13279	34604	1
Mo	98	51.036	ug/L	0.591	1	149	367261	1
Y	89		ug/L			353401	304354	1
Kr	83		ug/L			96	82	3
> In	115		ug/L			490660	420451	2
Ag	107	49.101	ug/L	0.024	0	207	699052	2
Cd	111	49.574	ug/L	0.215	0	247	171844	2
Cd	114	49.039	ug/L	0.392	0	24	399636	1
Sb	121	49.043	ug/L	0.384	0	404	563430	1
Sb	123	49.271	ug/L	0.241	0	311	423408	1
Ba	135	49.079	ug/L	0.099	0	28	122175	2
Ba	137	49.338	ug/L	0.119	0	59	205683	1
> Tb	159		ug/L			396208	372615	2
Tl	205	45.560	ug/L	0.500	1	204	1307602	1
Pb	208	45.958	ug/L	0.623	1	541	1836833	1
Bi	209		ug/L			360078	311137	2
Th	232	46.248	ug/L	0.855	1	1275	2364118	1
U	238	47.107	ug/L	0.484	1	173	2624761	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB10

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, January 27, 2011 22:57:30

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012711a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			392730	440829	1
[Be	9	0.164	ug/L	0.227	138	3	85	132
C	13		mg/L			5302	4779	2
[Cl	37		mg/L			2959467	2656563	1
> Sc	45		ug/L			303483	262233	1
V-1	51	0.190	ug/L	0.265	139	2787	4793	69
V	51	0.154	ug/L	0.287	186	1908	3618	101
Cr	52	0.146	ug/L	0.264	180	8625	9046	31
Cr	53	0.036	ug/L	0.332	923	693	646	67
Mn	55	0.556	ug/L	0.546	98	850	11360	91
[Co	59	0.797	ug/L	0.282	143	161	2983	136
> Ge	72		ug/L			439461	357249	0
Ni	60	0.198	ug/L	0.281	142	69	647	130
Ni	62	0.197	ug/L	0.296	149	87	160	83
Cu	63	0.198	ug/L	0.301	152	371	1642	124
Cu	65	0.203	ug/L	0.290	142	138	773	122
Zn	66	0.191	ug/L	0.320	167	367	712	97
Zn	67	0.115	ug/L	0.222	192	114	135	60
Zn	68	-0.090	ug/L	0.245	270	10988	8796	4
As-1	75	0.177	ug/L	0.264	149	-64	285	176
As	75	0.019	ug/L	0.221	1146	13015	10619	4
Se	82	0.202	ug/L	0.302	149	0	40	149
Se	78	-0.387	ug/L	0.134	34	13279	10600	1
[Mo	98	0.248	ug/L	0.308	123	149	1905	116
Y	89		ug/L			353401	308171	0
Kr	83		ug/L			96	79	2
> In	115		ug/L			490660	429557	0
Ag	107	0.206	ug/L	0.263	127	207	3178	120
Cd	111	0.183	ug/L	0.255	139	247	865	104
Cd	114	0.190	ug/L	0.264	139	24	1602	137
Sb	121	0.269	ug/L	0.327	121	404	3513	109
Sb	123	0.260	ug/L	0.316	121	311	2557	108
Ba	135	0.200	ug/L	0.279	139	28	533	133
[Ba	137	0.195	ug/L	0.272	139	59	881	131
> Tl	159		ug/L			396208	376300	0
Tl	205	0.184	ug/L	0.249	135	204	5555	131
Pb	208	0.181	ug/L	0.251	138	541	7867	130
Bi	209		ug/L			360078	319448	0
Th	232	0.444	ug/L	0.370	83	1275	24251	80
[U	238	0.202	ug/L	0.271	134	173	11600	132



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 1-28-11 Analyst: AK Page: 1 of 4

All corrections made by analyst unless otherwise noted. # 1-26-11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		STD 0			2794-10
		1			2795-4
		2			5
		3			2796-8
		4			2795-6
		Rinse Sample			
		STD 0			
		222222			new ICF
		ICF			2732-4
		ICB			
		CCV1			
		CCB1			
		222222			AR
		Low check			
		ICSA			Zinc cont
		ICSAB			↓ ^{62 Ni} high
		CCR2			Tl 8792 (low)
		CCB2			
		IDL1			
		2			
		3			
		4			
		5			
		6			



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 1-28-11 Analyst: AK Page: 2 of 6

All corrections made by analyst unless otherwise noted. AK 1-31-11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		IDL 7			
		8			
		9			
		↓ 10			
		CCV3			
		CCB3			
DW		SF97 MB	REN	2	
↓		↓ MBspl	↓	↓	↓ ✓
		A			
↓		↓ B	↓	↓	↓
		SF49 HDup			↓ ✓ Zn
		↓ H	↓	↓	↓
		↓ Hspl	↓	↓	↓ ✓
		↓ C	↓	↓	↓ As, Se
		SF26 A			As
		SF50 B	↓	↓	↓
		CCV4			
		CCB4			
		SF60 MB1	REN	2	
		MB2	↓	↓	↓
		MB1spl	↓	↓	↓ ✓
		MB2spl	↓	↓	↓ ✓
		ASup	↓	↓	↓ ✓
		A			
		↓ ASpl	↓	↓	↓ ✓

Metals Data Review Checklist

Method: ICP/ICP-MS/GFA CVA

Analysis Date: 1-28-11

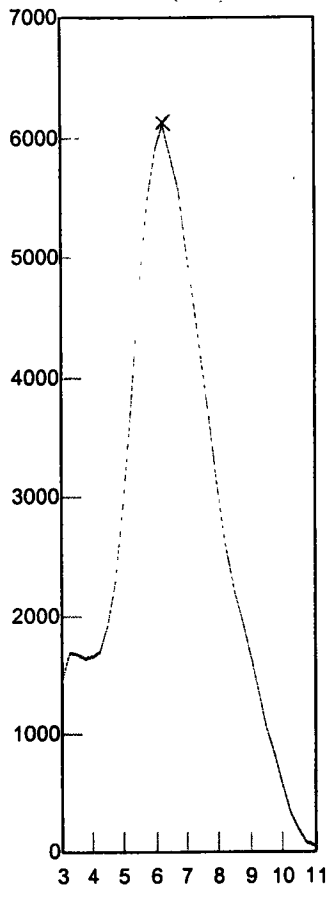
	Analyst	Peer	Comment
Log/Info	H 1-31	J 1-31-11	
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calculation/Verification			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	see log
Sample			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	see log
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 CAP's	✓	✓	

15

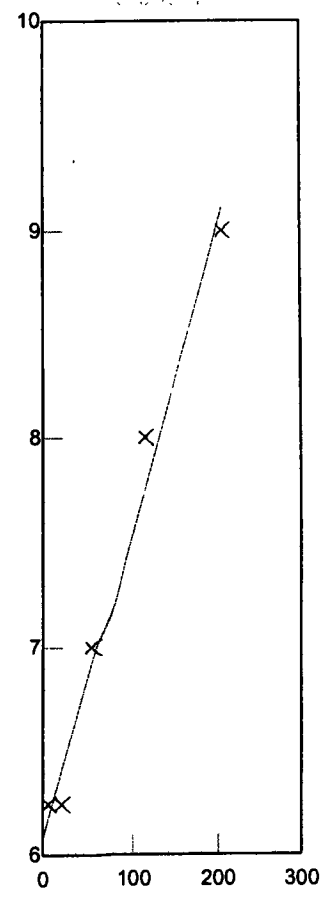
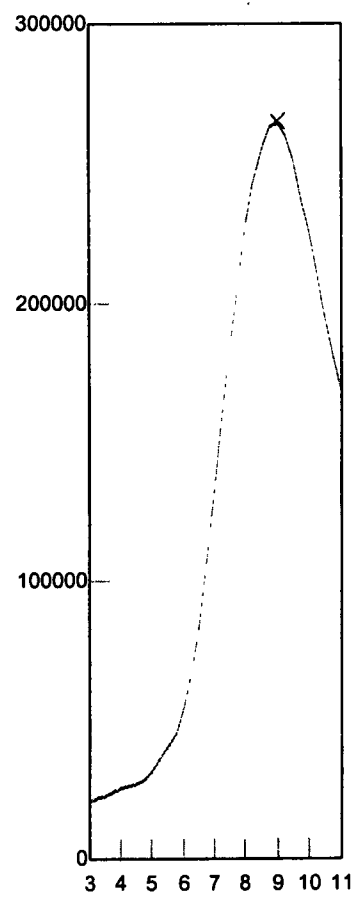
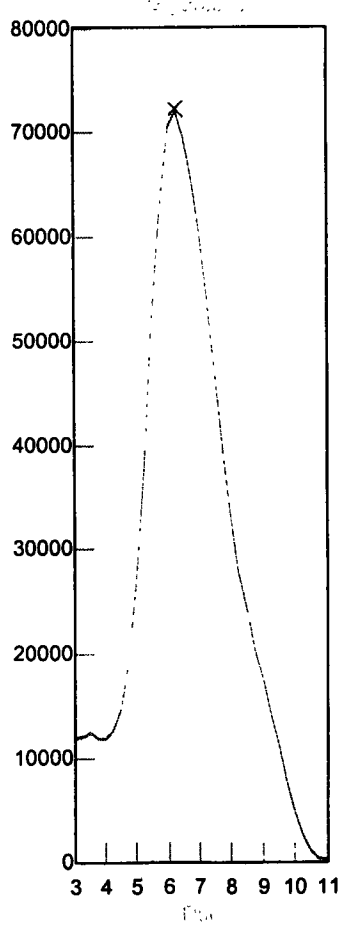
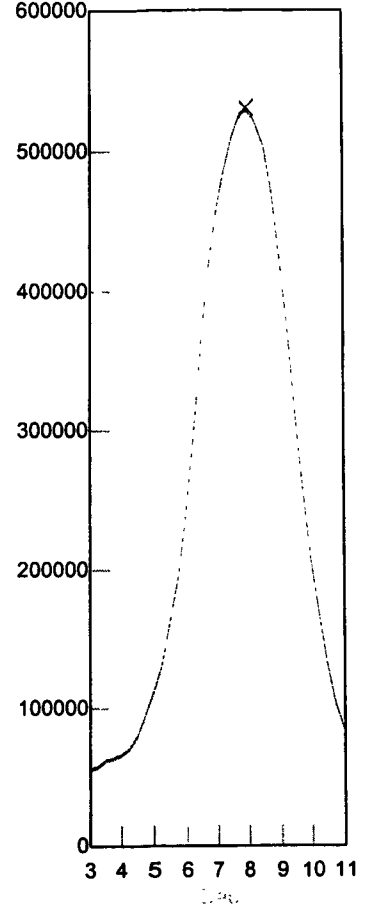
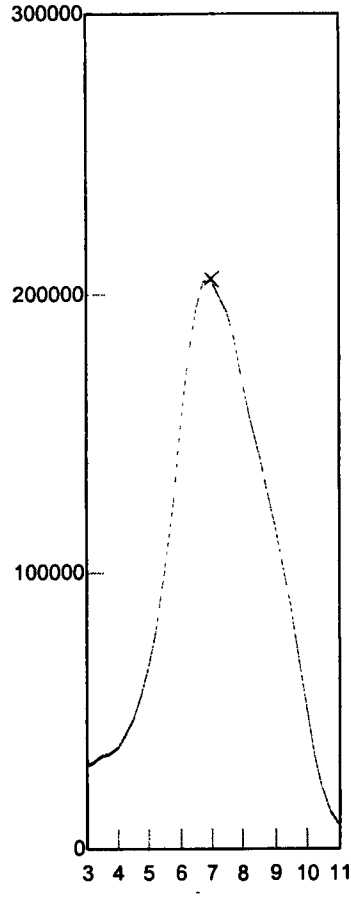
Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.025	2021	2167	0.709	
Mg	23.985	23.979	5652	2287	0.685	
Co	58.933	58.928	14152	2550	0.695	
In	114.904	114.878	27765	2997	0.690	
Pb	207.977	207.976	50421	3754	0.706	



L28-11



Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, January 28, 2011 08:37:19

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.7388

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

1.02

Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	56377.359	587.750	1.043
In	115	502490.043	3319.910	0.661
Pb	208	259881.193	2240.876	0.862
[> Ba	138	314901.093	2335.872	0.742
[Ba++	69	0.013	0.000	2.934
[> Ce	140	371805.241	3379.231	0.909
[CeO	156	0.029	0.001	3.534
Bkgd	220	1.500	1.369	91.287

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 09:09:13

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L				557052	0
[Be	9		ug/L				1	86
C	13		mg/L				5871	0
Cl	37		mg/L				2967074	0
[> Sc	45		ug/L				341712	0
Na	23		ug/L				28488	10
Mg	24		ug/L				32128	26
Al	27		ug/L				96939	30
K	39		ug/L				622787	0
Ca	43		ug/L				740	28
V-1	51		ug/L				3291	1
V	51		ug/L				1050	3
Cr	52		ug/L				9741	1
Cr	53		ug/L				384	0
Fe	54		ug/L				40946	1
Fe	57		ug/L				13071	1
Mn	55		ug/L				1719	9
Co	59		ug/L				234	26
[> Ge	72		ug/L				413645	0
Ni	60		ug/L				81	11
Ni	62		ug/L				87	6
Cu	63		ug/L				337	4
Cu	65		ug/L				137	10
Zn	66		ug/L				2029	19
Zn	67		ug/L				357	23
Zn	68		ug/L				10414	2
As-1	75		ug/L				-178	2
As	75		ug/L				10069	0
Se	82		ug/L				8	55
Se	78		ug/L				10418	0
[Mo	98		ug/L				361	7
Y	89		ug/L				332986	0
Kr	83		ug/L				72	2
[> In	115		ug/L				501558	0
Ag	107		ug/L				60	3
Cd	111		ug/L				261	1
Cd	114		ug/L				18	29
Sb	121		ug/L				48	6
Sb	123		ug/L				38	15
Ba	135		ug/L				287	133
[Ba	137		ug/L				86	19
[> Tb	159		ug/L				400319	0
Tl	205		ug/L				648	153
Pb	208		ug/L				480	12
Bi	209		ug/L				397259	1
Th	232		ug/L				299	7
[U	238		ug/L				94	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 09:17:07

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			557052	542721	2
[Be	9	10.000	ug/L	0.227	2	1	5741	0
C	13		mg/L			5871	5908	0
Cl	37		mg/L			2967074	3015811	0
> Sc	45		ug/L			341712	335056	0
Na	23	1000.000	ug/L	6.694	0	28488	8676398	0
Mg	24	1000.000	ug/L	3.754	0	32128	6023391	0
Al	27	1000.000	ug/L	3.965	0	96939	9514227	0
K	39	1000.000	ug/L	8.122	0	622787	13787622	0
Ca	43	1000.000	ug/L	8.916	0	740	28783	0
V-1	51	10.000	ug/L	0.032	0	3291	163055	0
V	51	10.000	ug/L	0.044	0	1050	164575	0
Cr	52	10.000	ug/L	0.113	1	9741	152349	0
Cr	53	10.000	ug/L	0.042	0	384	17701	0
Fe	54	1000.000	ug/L	10.197	1	40946	1265223	0
Fe	57	1000.000	ug/L	5.729	0	13071	536519	0
Mn	55	10.000	ug/L	0.065	0	1719	253519	0
Co	59	10.000	ug/L	0.046	0	234	191054	0
> Ge	72		ug/L			413645	406885	0
Ni	60	10.000	ug/L	0.133	1	81	40709	1
Ni	62	10.000	ug/L	0.067	0	87	6139	1
Cu	63	10.000	ug/L	0.024	0	337	90621	0
Cu	65	10.000	ug/L	0.097	0	137	43119	0
Zn	66	10.000	ug/L	0.115	1	2029	29929	1
Zn	67	10.000	ug/L	0.220	2	357	5037	1
Zn	68	10.000	ug/L	0.106	1	10414	29490	0
As-1	75	10.000	ug/L	0.080	0	-178	21771	0
As	75	10.000	ug/L	0.059	0	10069	31950	0
Se	82	10.000	ug/L	0.038	0	8	2412	0
Se	78	10.000	ug/L	0.092	0	10418	16477	0
Mo	98	10.000	ug/L	0.100	0	361	81765	0
Y	89		ug/L			332986	325332	1
Kr	83		ug/L			72	81	5
> In	115		ug/L			501558	493170	0
Ag	107	10.000	ug/L	0.056	0	60	170037	0
Cd	111	10.000	ug/L	0.080	0	261	42556	1
Cd	114	10.000	ug/L	0.164	1	18	98882	1
Sb	121	10.000	ug/L	0.035	0	48	130404	0
Sb	123	10.000	ug/L	0.056	0	38	97810	0
Ba	135	10.000	ug/L	0.049	0	287	28660	0
Ba	137	10.000	ug/L	0.083	0	86	48454	1
> Tb	159		ug/L			400319	387576	1
Tl	205	10.000	ug/L	0.058	0	648	336257	1
Pb	208	10.000	ug/L	0.063	0	480	467639	0
Bi	209		ug/L			397259	386975	0
Th	232	10.000	ug/L	0.133	1	299	563486	0
U	238	10.000	ug/L	0.075	0	94	632586	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 09:25:01

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			557052	544215	1
[Be	9	20.012	ug/L	0.146	0	1	11550	1
C	13		mg/L			5871	6047	2
Cl	37		mg/L			2967074	3036302	0
> Sc	45		ug/L			341712	334048	0
[Na	23	2000.796	ug/L	25.811	1	28488	17307081	1
Mg	24	2000.241	ug/L	14.071	0	32128	11986361	0
Al	27	2003.776	ug/L	6.227	0	96939	19055074	0
K	39	2005.815	ug/L	18.830	0	622787	27270060	0
Ca	43	1990.649	ug/L	6.837	0	740	55387	0
V-1	51	20.089	ug/L	0.256	1	3291	329088	1
V	51	20.077	ug/L	0.202	1	1050	333508	0
Cr	52	20.027	ug/L	0.103	0	9741	296167	0
Cr	53	19.995	ug/L	0.059	0	384	34880	0
Fe	54	2004.544	ug/L	9.167	0	40946	2510862	0
Fe	57	2001.611	ug/L	5.880	0	13071	1061242	0
Mn	55	20.038	ug/L	0.167	0	1719	508692	0
[Co	59	19.985	ug/L	0.036	0	234	379275	0
> Ge	72		ug/L			413645	407704	0
Ni	60	19.947	ug/L	0.417	2	81	80420	1
Ni	62	19.989	ug/L	0.433	2	87	12186	2
Cu	63	19.988	ug/L	0.146	0	337	180746	0
Cu	65	19.956	ug/L	0.140	0	137	85332	1
Zn	66	20.058	ug/L	0.221	1	2029	58800	1
Zn	67	20.082	ug/L	0.334	1	357	9939	1
Zn	68	20.058	ug/L	0.161	0	10414	49403	0
As-1	75	20.004	ug/L	0.103	0	-178	43850	0
As	75	19.976	ug/L	0.081	0	10069	53838	0
Se	82	20.026	ug/L	0.286	1	8	4856	0
Se	78	19.915	ug/L	0.273	1	10418	22490	0
[Mo	98	20.020	ug/L	0.096	0	361	164334	1
Y	89		ug/L			332986	324722	0
Kr	83		ug/L			72	80	6
> In	115		ug/L			501558	487596	0
[Ag	107	20.035	ug/L	0.071	0	60	339173	0
Cd	111	20.028	ug/L	0.103	0	261	84472	0
Cd	114	20.056	ug/L	0.116	0	18	198266	0
Sb	121	20.064	ug/L	0.157	0	48	261986	1
Sb	123	20.072	ug/L	0.047	0	38	196902	0
Ba	135	20.070	ug/L	0.043	0	287	57394	0
[Ba	137	20.021	ug/L	0.065	0	86	96227	0
> Tb	159		ug/L			400319	389181	0
[Tl	205	19.973	ug/L	0.121	0	648	670097	0
Pb	208	20.004	ug/L	0.071	0	480	939704	0
Bi	209		ug/L			397259	385180	1
Th	232	20.015	ug/L	0.193	0	299	1135690	0
[U	238	19.986	ug/L	0.105	0	94	1265787	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 09:32:56

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			557052	537062	1
[Be	9	49.870	ug/L	0.836	1	1	28039	1
C	13		mg/L			5871	5502	0
Cl	37		mg/L			2967074	3041383	0
[> Sc	45		ug/L			341712	334418	0
[Na	23	4983.796	ug/L	61.151	1	28488	42428199	0
[Mg	24	4979.026	ug/L	62.980	1	32128	29209934	0
[Al	27	4977.592	ug/L	65.259	1	96939	46211244	0
[K	39	4966.873	ug/L	15.075	0	622787	64583115	0
[Ca	43	4937.635	ug/L	37.915	0	740	128495	1
[V-1	51	49.646	ug/L	0.362	0	3291	781859	0
[V	51	49.646	ug/L	0.374	0	1050	795969	0
[Cr	52	49.629	ug/L	0.176	0	9741	695216	0
[Cr	53	49.632	ug/L	0.233	0	384	83071	0
[Fe	54	4966.610	ug/L	6.405	0	40946	5970749	0
[Fe	57	4976.239	ug/L	89.319	1	13071	2561646	1
[Mn	55	49.694	ug/L	0.199	0	1719	1223062	0
[Co	59	49.585	ug/L	0.262	0	234	904214	0
[> Ge	72		ug/L			413645	403662	0
[Ni	60	49.595	ug/L	0.376	0	81	190176	0
[Ni	62	49.586	ug/L	0.371	0	87	28622	1
[Cu	63	49.564	ug/L	0.266	0	337	424763	0
[Cu	65	49.590	ug/L	0.144	0	137	201489	0
[Zn	66	49.694	ug/L	0.219	0	2029	137161	0
[Zn	67	49.698	ug/L	0.778	1	357	23152	1
[Zn	68	49.698	ug/L	0.374	0	10414	103361	0
[As-1	75	49.710	ug/L	0.150	0	-178	105098	0
[As	75	49.709	ug/L	0.273	0	10069	114967	0
[Se	82	49.623	ug/L	0.128	0	8	11470	0
[Se	78	49.611	ug/L	0.532	1	10418	39184	0
[Mo	98	49.737	ug/L	0.432	0	361	393353	1
[Y	89		ug/L			332986	318434	0
[Kr	83		ug/L			72	86	4
[> In	115		ug/L			501558	481113	0
[Ag	107	49.724	ug/L	0.100	0	60	808202	0
[Cd	111	49.675	ug/L	0.264	0	261	199872	0
[Cd	114	49.702	ug/L	0.458	0	18	470768	0
[Sb	121	49.767	ug/L	0.379	0	48	626483	0
[Sb	123	49.819	ug/L	0.631	1	38	473583	0
[Ba	135	49.756	ug/L	0.265	0	287	136662	0
[Ba	137	49.671	ug/L	0.240	0	86	227945	0
[> Tb	159		ug/L			400319	381037	0
[Tl	205	49.773	ug/L	0.597	1	648	1597702	0
[Pb	208	49.792	ug/L	0.352	0	480	2242667	0
[Bi	209		ug/L			397259	376434	0
[Th	232	50.106	ug/L	0.362	0	299	2812786	0
[U	238	50.032	ug/L	0.322	0	94	3112194	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 09:40:52

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			557052	496832	1
[Be	9	100.898	ug/L	0.996	0	1	54098	0
C	13		mg/L			5871	5389	1
Cl	37		mg/L			2967074	3132167	1
> Sc	45		ug/L			341712	324742	0
Na	23	10028.141	ug/L	112.540	1	28488	83659092	1
Mg	24	10031.103	ug/L	26.345	0	32128	57713917	0
Al	27	10051.910	ug/L	125.818	1	96939	92115818	0
K	39	10070.581	ug/L	105.134	1	622787	129578748	0
Ca	43	10026.156	ug/L	65.237	0	740	254854	1
V-1	51	100.172	ug/L	1.408	1	3291	1537601	1
V	51	100.172	ug/L	1.219	1	1050	1567597	1
Cr	52	100.155	ug/L	0.521	0	9741	1359945	0
Cr	53	100.157	ug/L	0.230	0	384	163266	0
Fe	54	10004.215	ug/L	49.444	0	40946	11655713	0
Fe	57	10013.766	ug/L	91.230	0	13071	5016413	1
Mn	55	100.208	ug/L	0.061	0	1719	2409969	0
Co	59	99.928	ug/L	0.675	0	234	1765027	0
> Ge	72		ug/L			413645	395173	0
Ni	60	99.790	ug/L	0.723	0	81	371922	0
Ni	62	99.501	ug/L	0.527	0	87	55225	0
Cu	63	99.544	ug/L	0.557	0	337	822319	0
Cu	65	99.661	ug/L	0.455	0	137	391857	0
Zn	66	99.816	ug/L	0.491	0	2029	266143	0
Zn	67	100.016	ug/L	0.403	0	357	45291	0
Zn	68	99.946	ug/L	0.353	0	10414	193102	0
As-1	75	100.411	ug/L	0.595	0	-178	210887	0
As	75	100.473	ug/L	0.621	0	10069	220988	0
Se	82	99.683	ug/L	0.533	0	8	22312	0
Se	78	99.911	ug/L	0.119	0	10418	66992	0
Mo	98	100.119	ug/L	0.551	0	361	777888	0
Y	89		ug/L			332986	305622	0
Kr	83		ug/L			72	101	5
> In	115		ug/L			501558	460297	0
Ag	107	100.068	ug/L	0.590	0	60	1559523	0
Cd	111	100.149	ug/L	0.453	0	261	387208	0
Cd	114	100.066	ug/L	0.403	0	18	908800	0
Sb	121	100.642	ug/L	0.428	0	48	1238577	0
Sb	123	100.515	ug/L	0.653	0	38	930104	0
Ba	135	100.330	ug/L	0.586	0	287	266322	1
Ba	137	100.293	ug/L	0.381	0	86	444595	0
> Tb	159		ug/L			400319	357373	1
Tl	205	101.491	ug/L	1.422	1	648	3214538	0
Pb	208	101.121	ug/L	1.031	1	480	4436919	0
Bi	209		ug/L			397259	360851	1
Th	232	101.084	ug/L	1.113	1	299	5521042	0
U	238	101.177	ug/L	0.922	0	94	6143599	0

SF26:01617

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 09:48:27

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			557052	541798	1
[Be	9	0.012	ug/L	0.002	18	1	8	14
C	13		mg/L			5871	5677	1
Cl	37		mg/L			2967074	3073829	1
> Sc	45		ug/L			341712	338033	0
| Na	23	-0.133	ug/L	0.198	149	28488	27031	6
| Mg	24	-2.590	ug/L	0.105	4	32128	16279	3
| Al	27	-8.260	ug/L	0.220	2	96939	17180	12
| K	39	2.020	ug/L	0.467	23	622787	643012	0
| Ca	43	-19.154	ug/L	0.842	4	740	227	9
| V-1	51	-0.007	ug/L	0.005	74	3291	3144	2
| V	51	-0.006	ug/L	0.005	81	1050	935	9
| Cr	52	-0.013	ug/L	0.012	92	9741	9457	1
| Cr	53	-0.011	ug/L	0.010	98	384	362	4
| Fe	54	-0.670	ug/L	0.203	30	40946	39695	0
| Fe	57	-1.443	ug/L	0.639	44	13071	12181	3
| Mn	55	0.017	ug/L	0.007	40	1719	2126	7
[Co	59	0.000	ug/L	0.002	111531	234	232	15
> Ge	72		ug/L			413645	405594	0
| Ni	60	-0.003	ug/L	0.003	126	81	70	18
| Ni	62	0.010	ug/L	0.027	280	87	91	16
| Cu	63	-0.005	ug/L	0.001	14	337	286	3
| Cu	65	-0.003	ug/L	0.003	95	137	120	11
| Zn	66	-0.611	ug/L	0.008	1	2029	330	7
| Zn	67	-0.570	ug/L	0.006	1	357	87	3
| Zn	68	-0.650	ug/L	0.072	11	10414	8989	1
| As-1	75	0.011	ug/L	0.011	99	-178	-150	15
| As	75	0.042	ug/L	0.022	52	10069	9963	0
| Se	82	-0.007	ug/L	0.039	569	8	7	128
| Se	78	0.122	ug/L	0.080	65	10418	10286	0
[Mo	98	0.008	ug/L	0.007	91	361	419	13
| Y	89		ug/L			332986	328799	1
| Kr	83		ug/L			72	74	2
> In	115		ug/L			501558	493739	0
| Ag	107	0.018	ug/L	0.002	8	60	366	6
| Cd	111	0.009	ug/L	0.004	44	261	292	5
| Cd	114	0.006	ug/L	0.002	31	18	73	23
| Sb	121	0.076	ug/L	0.012	15	48	1049	15
| Sb	123	0.070	ug/L	0.009	13	38	735	12
| Ba	135	-0.085	ug/L	0.001	1	287	39	7
[Ba	137	-0.002	ug/L	0.002	108	86	75	14
> Tb	159		ug/L			400319	388105	0
| Tl	205	-0.008	ug/L	0.002	21	648	337	18
| Pb	208	0.004	ug/L	0.002	51	480	649	13
| Bi	209		ug/L			397259	392870	0
| Th	232	0.064	ug/L	0.003	4	299	4087	4
[U	238	0.009	ug/L	0.002	19	94	715	16

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 09:56:19

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L				541893	1
[Be	9		ug/L				2	91
[C	13		mg/L				5578	2
[Cl	37		mg/L				3088599	0
[> Sc	45		ug/L				338057	0
[Na	23		ug/L				20206	4
[Mg	24		ug/L				11798	6
[Al	27		ug/L				8584	6
[K	39		ug/L				634484	0
[Ca	43		ug/L				191	13
[V-1	51		ug/L				3098	3
[V	51		ug/L				848	4
[Cr	52		ug/L				9289	2
[Cr	53		ug/L				330	8
[Fe	54		ug/L				38293	0
[Fe	57		ug/L				11603	1
[Mn	55		ug/L				1893	4
[Co	59		ug/L				108	8
[> Ge	72		ug/L				403624	0
[Ni	60		ug/L				58	21
[Ni	62		ug/L				96	14
[Cu	63		ug/L				240	10
[Cu	65		ug/L				98	10
[Zn	66		ug/L				302	7
[Zn	67		ug/L				85	9
[Zn	68		ug/L				8866	0
[As-1	75		ug/L				-176	9
[As	75		ug/L				9931	0
[Se	82		ug/L				0	783
[Se	78		ug/L				10273	0
[Mo	98		ug/L				174	15
[Y	89		ug/L				330409	1
[Kr	83		ug/L				77	5
[> In	115		ug/L				492136	0
[Ag	107		ug/L				155	14
[Cd	111		ug/L				283	12
[Cd	114		ug/L				22	22
[Sb	121		ug/L				337	7
[Sb	123		ug/L				250	11
[Ba	135		ug/L				28	14
[Ba	137		ug/L				41	13
[> Tb	159		ug/L				385959	0
[Tl	205		ug/L				104	18
[Pb	208		ug/L				327	14
[Bi	209		ug/L				388516	0
[Th	232		ug/L				1781	7
[U	238		ug/L				152	18

Quantitative Analysis - Calibration Report

Sample Date/Time: Friday, January 28, 2011 09:56:19

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	r Corr Coeff	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	0.9999	0.0011	10	20	50	100	
C	13							
Cl	37							
Sc	45							
Na	23	1.0000	0.0257	1000	2000	5000	10000	
Mg	24	1.0000	0.0177	1000	2000	5000	10000	
Al	27	0.9999	0.0282	1000	2000	5000	10000	
K	39	0.9999	0.0394	1000	2000	5000	10000	
Ca	43	0.9999	0.0001	1000	2000	5000	10000	
V-1	51	1.0000	0.0472	10	20	50	100	
V	51	1.0000	0.0482	10	20	50	100	
Cr	52	1.0000	0.0415	10	20	50	100	
Cr	53	1.0000	0.0050	10	20	50	100	
Fe	54	1.0000	0.0036	1000	2000	5000	10000	
Fe	57	1.0000	0.0015	1000	2000	5000	10000	
Mn	55	1.0000	0.0740	10	20	50	100	
Co	59	1.0000	0.0544	10	20	50	100	
Ge	72							
Ni	60	1.0000	0.0094	10	20	50	100	
Ni	62	0.9999	0.0014	10	20	50	100	
Cu	63	0.9999	0.0209	10	20	50	100	
Cu	65	0.9999	0.0099	10	20	50	100	
Zn	66	1.0000	0.0067	10	20	50	100	
Zn	67	1.0000	0.0011	10	20	50	100	
Zn	68	1.0000	0.0046	10	20	50	100	
As-1	75	1.0000	0.0053	10	20	50	100	
As	75	0.9999	0.0053	10	20	50	100	
Se	82	0.9999	0.0006	10	20	50	100	
Se	78	1.0000	0.0014	10	20	50	100	
Mo	98	1.0000	0.0197	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.0339	10	20	50	100	
Cd	111	1.0000	0.0084	10	20	50	100	
Cd	114	1.0000	0.0197	10	20	50	100	
Sb	121	0.9999	0.0267	10	20	50	100	
Sb	123	0.9999	0.0201	10	20	50	100	
Ba	135	1.0000	0.0058	10	20	50	100	
Ba	137	1.0000	0.0096	10	20	50	100	
Tb	159							
Tl	205	0.9996	0.0886	10	20	50	100	
Pb	208	0.9998	0.1228	10	20	50	100	
Bi	209							
Th	232	0.9998	0.1528	10	20	50	100	
U	238	0.9998	0.1699	10	20	50	100	

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:04:21

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	511600	0
[Be	9	49.239	ug/L	0.441	0	2	27189	1
C	13		mg/L			5578	2469	2
Cl	37		mg/L			3088599	3141768	0
> Sc	45		ug/L			338057	326832	0
Na	23	4979.316	ug/L	85.006	1	20206	41810122	0
Mg	24	4942.480	ug/L	74.472	1	11798	28614060	0
Al	27	5018.723	ug/L	63.957	1	8584	46249542	0
K	39	4964.558	ug/L	84.799	1	634484	64608225	1
Ca	43	5083.239	ug/L	43.273	0	191	129864	0
V-1	51	49.952	ug/L	0.847	1	3098	773014	0
V	51	49.821	ug/L	0.782	1	848	784915	0
Cr	52	49.518	ug/L	0.423	0	9289	681050	0
Cr	53	49.145	ug/L	0.249	0	330	80764	0
Fe	54	4981.135	ug/L	66.656	1	38293	5857905	0
Fe	57	4999.905	ug/L	40.271	0	11603	2525650	0
Mn	55	49.175	ug/L	0.677	1	1893	1191196	0
Co	59	50.703	ug/L	0.337	0	108	901305	0
> Ge	72		ug/L			403624	398445	0
Ni	60	49.936	ug/L	0.690	1	58	187665	1
Ni	62	50.573	ug/L	0.380	0	96	28352	0
Cu	63	50.308	ug/L	0.390	0	240	419087	0
Cu	65	50.449	ug/L	0.414	0	98	200025	0
Zn	66	49.921	ug/L	0.457	0	302	133524	1
Zn	67	50.176	ug/L	0.345	0	85	22822	1
Zn	68	50.157	ug/L	0.165	0	8866	101429	0
As-1	75	49.175	ug/L	0.232	0	-176	104044	0
As	75	49.187	ug/L	0.268	0	9931	114139	1
Se	82	79.206	ug/L	0.528	0	0	17869	0
Se	78	79.123	ug/L	0.439	0	10273	55685	0
Mo	98	49.430	ug/L	0.470	0	174	387211	0
Y	89		ug/L			330409	315076	0
Kr	83		ug/L			77	95	8
> In	115		ug/L			492136	470726	0
Ag	107	47.656	ug/L	0.142	0	155	759670	0
Cd	111	49.425	ug/L	0.375	0	283	195574	1
Cd	114	49.520	ug/L	0.533	1	22	459949	1
Sb	121	48.801	ug/L	0.273	0	337	614482	0
Sb	123	48.974	ug/L	0.323	0	250	463675	0
Ba	135	49.577	ug/L	0.164	0	28	134471	0
Ba	137	49.873	ug/L	0.493	0	41	226087	0
> Tb	159		ug/L			385959	366965	0
Tl	205	49.394	ug/L	0.279	0	104	1606403	0
Pb	208	49.185	ug/L	0.282	0	327	2216262	0
Bi	209		ug/L			388516	372868	0
Th	232	50.690	ug/L	0.182	0	1781	2844720	0
U	238	49.615	ug/L	0.257	0	152	3093808	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:12:04

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	544528	1
[Be	9	47.432	ug/L	0.142	0	2	27877	1
C	13		mg/L			5578	17228	3
Cl	37		mg/L			3088599	3067357	1
> Sc	45		ug/L			338057	329263	0
Na	23	5034.271	ug/L	17.434	0	20206	42589567	0
Mg	24	5057.107	ug/L	44.001	0	11798	29497105	0
Al	27	5073.326	ug/L	44.288	0	8584	47104105	1
K	39	5019.506	ug/L	34.714	0	634484	65806019	0
Ca	43	5113.087	ug/L	56.372	1	191	131599	0
V-1	51	50.398	ug/L	0.237	0	3098	785765	0
V	51	50.442	ug/L	0.348	0	848	800656	0
Cr	52	50.126	ug/L	0.125	0	9289	694465	0
Cr	53	50.278	ug/L	0.629	1	330	83236	1
Fe	54	5067.908	ug/L	41.659	0	38293	6003966	0
Fe	57	5065.905	ug/L	26.341	0	11603	2577933	0
Mn	55	49.462	ug/L	0.130	0	1893	1207138	0
[Co	59	51.382	ug/L	0.033	0	108	920194	0
> Ge	72		ug/L			403624	398983	0
Ni	60	51.027	ug/L	0.612	1	58	192016	0
Ni	62	50.943	ug/L	0.673	1	96	28597	0
Cu	63	51.003	ug/L	0.337	0	240	425448	0
Cu	65	50.530	ug/L	0.380	0	98	200617	0
Zn	66	52.333	ug/L	0.403	0	302	140153	1
Zn	67	52.276	ug/L	0.320	0	85	23804	0
Zn	68	52.377	ug/L	0.445	0	8866	105667	0
As-1	75	49.365	ug/L	0.319	0	-176	104586	0
As	75	49.238	ug/L	0.243	0	9931	114399	0
Se	82	80.398	ug/L	0.883	1	0	18162	0
Se	78	79.784	ug/L	0.650	0	10273	56140	0
[Mo	98	50.035	ug/L	0.493	0	174	392479	0
Y	89		ug/L			330409	323555	0
Kr	83		ug/L			77	91	2
> In	115		ug/L			492136	474377	1
Ag	107	47.743	ug/L	0.573	1	155	766897	0
Cd	111	49.630	ug/L	0.437	0	283	197898	0
Cd	114	49.538	ug/L	0.119	0	22	463680	0
Sb	121	48.669	ug/L	0.148	0	337	617574	0
Sb	123	48.622	ug/L	0.471	0	250	463893	0
Ba	135	51.397	ug/L	0.480	0	28	140482	0
Ba	137	51.530	ug/L	0.830	1	41	235395	0
> Tb	159		ug/L			385959	377805	0
Tl	205	48.499	ug/L	0.510	1	104	1623874	0
Pb	208	48.381	ug/L	0.387	0	327	2244385	0
Bi	209		ug/L			388516	378327	0
Th	232	49.619	ug/L	0.538	1	1781	2866786	0
[U	238	48.858	ug/L	0.117	0	152	3136618	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:19:41

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	535488	1
[Be	9	0.003	ug/L	0.000	2	2	3	
C	13		mg/L			5578	5663	0
Cl	37		mg/L			3088599	3086824	0
> Sc	45		ug/L			338057	329918	0
Na	23	0.438	ug/L	0.400	91	20206	23453	15
Mg	24	0.292	ug/L	0.172	58	11798	13224	8
Al	27	0.138	ug/L	0.118	84	8584	9671	12
K	39	1.129	ug/L	0.527	46	634484	633862	0
Ca	43	0.787	ug/L	1.188	150	191	207	15
V-1	51	-0.002	ug/L	0.012	740	3098	3000	7
V	51	0.001	ug/L	0.002	131	848	846	3
Cr	52	0.006	ug/L	0.014	238	9289	9149	2
Cr	53	0.014	ug/L	0.023	161	330	345	10
Fe	54	0.700	ug/L	0.079	11	38293	38197	1
Fe	57	0.633	ug/L	0.167	26	11603	11645	1
Mn	55	0.005	ug/L	0.006	117	1893	1963	7
Co	59	0.003	ug/L	0.001	39	108	155	13
> Ge	72		ug/L			403624	399841	0
Ni	60	0.003	ug/L	0.000	7	58	69	1
Ni	62	-0.005	ug/L	0.021	408	96	92	13
Cu	63	-0.001	ug/L	0.001	95	240	225	5
Cu	65	-0.000	ug/L	0.002	2778	98	97	10
Zn	66	-0.009	ug/L	0.004	49	302	275	4
Zn	67	-0.015	ug/L	0.013	87	85	78	7
Zn	68	-0.004	ug/L	0.007	185	8866	8775	0
As-1	75	0.010	ug/L	0.008	82	-176	-153	10
As	75	0.055	ug/L	0.028	50	9931	9956	1
Se	82	-0.009	ug/L	0.051	550	0	-1	930
Se	78	0.177	ug/L	0.057	32	10273	10278	0
[Mo	98	0.003	ug/L	0.003	87	174	200	12
Y	89		ug/L			330409	323472	0
Kr	83		ug/L			77	81	9
> In	115		ug/L			492136	484414	0
Ag	107	0.005	ug/L	0.000	8	155	237	3
Cd	111	0.003	ug/L	0.002	55	283	292	3
Cd	114	0.003	ug/L	0.001	53	22	47	29
Sb	121	-0.001	ug/L	0.004	556	337	323	14
Sb	123	0.002	ug/L	0.005	244	250	268	19
Ba	135	-0.000	ug/L	0.005	54701	28	27	49
[Ba	137	0.004	ug/L	0.002	39	41	58	12
> Tb	159		ug/L			385959	378591	1
Tl	205	0.002	ug/L	0.001	33	104	182	15
Pb	208	0.003	ug/L	0.001	51	327	455	16
Bi	209		ug/L			388516	382630	0
Th	232	0.007	ug/L	0.004	57	1781	2157	12
[U	238	0.004	ug/L	0.002	45	152	391	29

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:27:16

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	520675	2
[Be	9	48.850	ug/L	0.959	1	2	27444	0
C	13		mg/L			5578	5339	2
Cl	37		mg/L			3088599	3136668	1
> Sc	45		ug/L			338057	325947	0
Na	23	4957.632	ug/L	32.681	0	20206	41519760	0
Mg	24	4978.054	ug/L	33.717	0	11798	28743516	0
Al	27	4956.028	ug/L	26.650	0	8584	45550745	0
K	39	4973.519	ug/L	37.811	0	634484	64551429	0
Ca	43	4980.784	ug/L	47.014	0	191	126910	1
V-1	51	49.534	ug/L	0.529	1	3098	764546	0
V	51	49.571	ug/L	0.346	0	848	778906	0
Cr	52	49.361	ug/L	0.293	0	9289	677104	0
Cr	53	49.484	ug/L	0.926	1	330	81104	2
Fe	54	5009.623	ug/L	48.285	0	38293	5875476	0
Fe	57	4985.885	ug/L	37.890	0	11603	2511846	0
Mn	55	49.237	ug/L	0.249	0	1893	1189576	0
[Co	59	49.999	ug/L	0.110	0	108	886407	0
> Ge	72		ug/L			403624	398211	0
Ni	60	49.767	ug/L	0.180	0	58	186927	0
Ni	62	49.852	ug/L	0.597	1	96	27933	0
Cu	63	50.087	ug/L	0.199	0	240	417010	0
Cu	65	49.839	ug/L	0.056	0	98	197499	0
Zn	66	50.307	ug/L	0.476	0	302	134474	0
Zn	67	50.117	ug/L	0.492	0	85	22781	0
Zn	68	50.686	ug/L	0.215	0	8866	102346	0
As-1	75	49.241	ug/L	0.566	1	-176	104120	0
As	75	49.180	ug/L	0.545	1	9931	114052	0
Se	82	50.049	ug/L	0.419	0	0	11285	0
Se	78	49.785	ug/L	0.461	0	10273	38775	0
[Mo	98	49.331	ug/L	0.346	0	174	386223	0
Y	89		ug/L			330409	314255	0
Kr	83		ug/L			77	85	2
> In	115		ug/L			492136	471492	0
Ag	107	49.542	ug/L	0.183	0	155	791019	1
Cd	111	49.367	ug/L	0.237	0	283	195657	0
Cd	114	49.369	ug/L	0.271	0	22	459281	0
Sb	121	48.646	ug/L	0.417	0	337	613520	0
Sb	123	48.705	ug/L	0.475	0	250	461864	0
Ba	135	48.700	ug/L	0.233	0	28	132310	1
[Ba	137	49.337	ug/L	0.157	0	41	224025	0
> Tb	159		ug/L			385959	368884	0
Tl	205	48.200	ug/L	0.130	0	104	1575793	0
Pb	208	48.902	ug/L	0.170	0	327	2215087	0
Bi	209		ug/L			388516	373274	0
Th	232	49.599	ug/L	0.228	0	1781	2798047	0
[U	238	49.527	ug/L	0.108	0	152	3104580	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:34:50

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	517584	0
[Be	9	0.005	ug/L	0.003	73	2	4	41
C	13		mg/L			5578	5486	1
Cl	37		mg/L			3088599	3181446	0
> Sc	45		ug/L			338057	325338	0
Na	23	0.397	ug/L	0.180	45	20206	22759	6
Mg	24	0.284	ug/L	0.177	62	11798	12985	7
Al	27	0.141	ug/L	0.144	101	8584	9550	13
K	39	3.466	ug/L	0.516	14	634484	655042	0
Ca	43	0.648	ug/L	0.515	79	191	200	5
V-1	51	0.005	ug/L	0.005	96	3098	3060	1
V	51	0.006	ug/L	0.004	57	848	915	5
Cr	52	0.001	ug/L	0.016	1214	9289	8957	1
Cr	53	0.005	ug/L	0.010	183	330	326	4
Fe	54	0.178	ug/L	0.103	57	38293	37059	0
Fe	57	0.209	ug/L	0.152	72	11603	11271	0
Mn	55	0.008	ug/L	0.002	20	1893	2009	1
Co	59	0.003	ug/L	0.001	20	108	150	5
> Ge	72		ug/L			403624	400558	0
Ni	60	-0.001	ug/L	0.004	344	58	53	29
Ni	62	-0.015	ug/L	0.014	95	96	87	9
Cu	63	0.001	ug/L	0.005	773	240	244	17
Cu	65	0.003	ug/L	0.002	62	98	110	6
Zn	66	-0.012	ug/L	0.004	36	302	267	4
Zn	67	-0.013	ug/L	0.042	321	85	79	24
Zn	68	-0.137	ug/L	0.075	54	8866	8544	1
As-1	75	-0.024	ug/L	0.081	337	-176	-226	76
As	75	-0.033	ug/L	0.110	333	9931	9785	2
Se	82	0.001	ug/L	0.034	2758	0	1	658
Se	78	-0.010	ug/L	0.131	1324	10273	10189	0
Mo	98	0.008	ug/L	0.005	60	174	237	16
Y	89		ug/L			330409	321910	0
Kr	83		ug/L			77	82	8
> In	115		ug/L			492136	480853	0
Ag	107	0.005	ug/L	0.002	36	155	238	13
Cd	111	-0.000	ug/L	0.009	5847	283	276	12
Cd	114	0.003	ug/L	0.002	59	22	49	33
Sb	121	0.006	ug/L	0.003	56	337	406	10
Sb	123	0.007	ug/L	0.007	98	250	310	20
Ba	135	-0.001	ug/L	0.004	440	28	25	47
Ba	137	0.001	ug/L	0.004	343	41	45	41
> Tb	159		ug/L			385959	369670	0
Tl	205	0.003	ug/L	0.002	57	104	189	27
Pb	208	0.004	ug/L	0.001	29	327	472	10
Bi	209		ug/L			388516	382484	0
Th	232	0.029	ug/L	0.009	30	1781	3352	14
U	238	0.004	ug/L	0.002	46	152	387	28

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~LOW CHECK~~ *222222*

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:42:23

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	190	1
[Be	9	6.041	ug/L	5.979	98	2	1	100
C	13		mg/L			5578	4962	2
Cl	37		mg/L			3088599	1422860	2
> Sc	45		ug/L			338057	2631	3
Na	23	85.962	ug/L	3.547	4	20206	5960	2
Mg	24	-1.772	ug/L	0.119	6	11798	9	56
Al	27	-0.115	ug/L	0.069	60	8584	58	10
K	39	2862.131	ug/L	143.869	5	634484	301591	1
Ca	43	256.603	ug/L	11.392	4	191	54	4
V-1	51	14.007	ug/L	1.132	8	3098	1759	5
V	51	7.001	ug/L	0.295	4	848	893	4
Cr	52	48.462	ug/L	3.494	7	9289	5357	3
Cr	53	24.747	ug/L	1.254	5	330	328	3
Fe	54	47395.106	ug/L	1583.946	3	38293	445826	1
Fe	57	816.313	ug/L	27.954	3	11603	3392	2
Mn	55	14.207	ug/L	0.519	3	1893	2778	1
Co	59	0.256	ug/L	0.058	22	108	37	23
> Ge	72		ug/L			403624	349	5
Ni	60	1.626	ug/L	0.139	8	58	5	13
Ni	62	21.218	ug/L	4.739	22	96	10	18
Cu	63	5.401	ug/L	1.735	32	240	39	31
Cu	65	4.226	ug/L	1.474	34	98	14	30
Zn	66	10.124	ug/L	2.450	24	302	23	18
Zn	67	76.748	ug/L	13.307	17	85	30	14
Zn	68	7196.128	ug/L	267.704	3	8866	11647	2
As-1	75	1195.873	ug/L	76.469	6	-176	2216	1
As	75	7136.546	ug/L	280.404	3	9931	13257	1
Se	82	-159.574	ug/L	100.882	63	0	-30	61
Se	78	26467.438	ug/L	1019.306	3	10273	13343	1
[Mo	98	0.319	ug/L	0.217	68	174	2	60
Y	89		ug/L			330409	7	50
Kr	83		ug/L			77	955	2
> In	115		ug/L			492136	12	36
Ag	107	6.020	ug/L	2.596	43	155	2	50
Cd	111	20.337	ug/L	70.086	344	283	1	366
Cd	114	11.997	ug/L	2.012	16	22	2	24
Sb	121	15.451	ug/L	9.843	63	337	4	56
Sb	123	16.261	ug/L	15.398	94	250	3	68
Ba	135	56.133	ug/L	40.409	71	28	3	57
[Ba	137	34.963	ug/L	10.891	31	41	4	45
> Tb	159		ug/L			385959	1	86
Tl	205		ug/L			104	21	38
Pb	208		ug/L			327	36	6
Bi	209		ug/L			388516	8	28
Th	232		ug/L			1781	0	86
[U	238		ug/L			152	4	56

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:50:58

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			541893	529497	1
[Be	9	0.193	ug/L	0.013	6	2	112	7
C	13		mg/L			5578	5461	2
Cl	37		mg/L			3088599	3124026	0
[> Sc	45		ug/L			338057	322541	0
Na	23	96.130	ug/L	0.506	0	20206	815555	0
Mg	24	17.047	ug/L	0.232	1	11798	108620	0
Al	27	23.131	ug/L	0.690	2	8584	218524	2
K	39	21.761	ug/L	0.207	0	634484	882195	0
Ca	43	45.247	ug/L	2.875	6	191	1321	5
V-1	51	0.190	ug/L	0.009	4	3098	5845	2
V	51	0.207	ug/L	0.005	2	848	4030	1
Cr	52	0.512	ug/L	0.019	3	9289	15716	1
Cr	53	0.545	ug/L	0.016	2	330	1195	2
Fe	54	19.591	ug/L	0.056	0	38293	59131	0
Fe	57	20.585	ug/L	0.268	1	11603	21286	0
Mn	55	0.467	ug/L	0.002	0	1893	12952	0
Co	59	0.206	ug/L	0.004	1	108	3725	2
[> Ge	72		ug/L			403624	401690	0
Ni	60	0.507	ug/L	0.007	1	58	1977	1
Ni	62	0.485	ug/L	0.088	18	96	369	13
Cu	63	0.525	ug/L	0.007	1	240	4646	0
Cu	65	0.527	ug/L	0.010	1	98	2203	1
Zn	66	4.139	ug/L	0.075	1	302	11437	1
Zn	67	3.602	ug/L	0.194	5	85	1731	5
Zn	68	3.886	ug/L	0.053	1	8866	16063	0
As-1	75	0.190	ug/L	0.008	4	-176	230	6
As	75	0.224	ug/L	0.026	11	9931	10363	0
Se	82	0.489	ug/L	0.022	4	0	112	3
Se	78	0.628	ug/L	0.063	9	10273	10588	0
Mo	98	0.186	ug/L	0.004	2	174	1642	1
Y	89		ug/L			330409	327470	0
Kr	83		ug/L			77	81	9
[> In	115		ug/L			492136	480475	0
Ag	107	0.193	ug/L	0.007	3	155	3298	3
Cd	111	0.190	ug/L	0.007	3	283	1043	2
Cd	114	0.196	ug/L	0.011	5	22	1881	4
Sb	121	0.181	ug/L	0.004	2	337	2651	1
Sb	123	0.183	ug/L	0.006	3	250	2012	2
Ba	135	0.476	ug/L	0.014	2	28	1345	2
Ba	137	0.494	ug/L	0.010	2	41	2325	1
[> Tb	159		ug/L			385959	378224	0
Tl	205	0.191	ug/L	0.001	0	104	6504	0
Pb	208	0.976	ug/L	0.006	0	327	45625	1
Bi	209		ug/L			388516	381512	0
Th	232	0.174	ug/L	0.001	0	1781	11790	0
U	238	0.199	ug/L	0.001	0	152	12960	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 10:58:31

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	531903	0
[Be	9	0.004	ug/L	0.005	113	2	4	62
C	13		mg/L			5578	21096	0
Cl	37		mg/L			3088599	4698589	0
> Sc	45		ug/L			338057	311472	0
Na	23	19472.764	ug/L	407.621	2	20206	155783894	2
Mg	24	18721.637	ug/L	342.464	1	11798	103270283	1
Al	27	18984.480	ug/L	214.346	1	8584	166716825	1
K	39	19555.887	ug/L	236.294	1	634484	240835168	1
Ca	43	19922.207	ug/L	89.739	0	191	484544	0
V-1	51	-0.039	ug/L	0.031	80	3098	2282	20
V	51	0.976	ug/L	0.020	2	848	15415	2
Cr	52	0.634	ug/L	0.011	1	9289	16765	0
Cr	53	2.712	ug/L	0.025	0	330	6094	0
Fe	54	20208.409	ug/L	47.854	0	38293	22542224	0
Fe	57	20336.419	ug/L	212.119	1	11603	9757391	1
Mn	55	0.362	ug/L	0.012	3	1893	10089	2
Co	59	0.122	ug/L	0.007	5	108	2171	5
> Ge	72		ug/L			403624	372810	0
Ni	60	0.742	ug/L	0.031	4	58	2663	3
Ni	62	4.400	ug/L	0.092	2	96	2388	1
Cu	63	0.590	ug/L	0.006	0	240	4820	0
Cu	65	0.774	ug/L	0.020	2	98	2961	1
Zn	66	5.187	ug/L	0.080	1	302	13232	2
Zn	67	5.314	ug/L	0.162	3	85	2332	2
Zn	68	4.092	ug/L	0.052	1	8866	15263	1
As-1	75	0.029	ug/L	0.045	157	-176	-106	84
As	75	0.108	ug/L	0.040	36	9931	9388	0
Se	82	-0.060	ug/L	0.034	55	0	-11	59
Se	78	0.391	ug/L	0.048	12	10273	9699	1
Mo	98	418.807	ug/L	4.613	1	174	3068407	0
Y	89		ug/L			330409	290823	1
Kr	83		ug/L			77	105	4
> In	115		ug/L			492136	435543	1
Ag	107	0.036	ug/L	0.002	5	155	672	5
Cd	111	0.043	ug/L	0.018	42	283	407	16
Cd	114	0.742	ug/L	0.004	0	22	6399	1
Sb	121	0.105	ug/L	0.003	3	337	1526	2
Sb	123	0.106	ug/L	0.006	5	250	1146	3
Ba	135	0.011	ug/L	0.004	36	28	52	18
Ba	137	0.007	ug/L	0.002	35	41	64	14
> Tb	159		ug/L			385959	351474	0
Tl	205	-0.001	ug/L	0.000	55	104	78	11
Pb	208	0.054	ug/L	0.002	3	327	2642	2
Bi	209		ug/L			388516	347507	0
Th	232	0.016	ug/L	0.002	11	1781	2488	4
U	238	-0.001	ug/L	0.000	44	152	95	20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:06:25

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	545022	0
[Be	9	-0.001	ug/L	0.000	1	2	1	0
C	13		mg/L			5578	20115	0
Cl	37		mg/L			3088599	4549717	0
> Sc	45		ug/L			338057	308884	0
Na	23	18955.751	ug/L	59.601	0	20206	150388790	0
Mg	24	18180.914	ug/L	146.752	0	11798	99454967	0
Al	27	18490.827	ug/L	116.013	0	8584	161030412	0
K	39	19231.317	ug/L	206.495	1	634484	234873103	0
Ca	43	20080.564	ug/L	182.081	0	191	484331	0
V-1	51	-0.421	ug/L	0.163	38	3098	-3306	72
V	51	0.991	ug/L	0.024	2	848	15511	2
Cr	52	20.969	ug/L	0.371	1	9289	277452	1
Cr	53	23.960	ug/L	0.179	0	330	37370	1
Fe	54	20380.242	ug/L	75.689	0	38293	22544462	0
Fe	57	20409.505	ug/L	47.719	0	11603	9711100	0
Mn	55	20.387	ug/L	0.096	0	1893	467770	0
Co	59	20.206	ug/L	0.177	0	108	339515	0
> Ge	72		ug/L			403624	365385	1
Ni	60	21.142	ug/L	0.175	0	58	72891	0
Ni	62	25.118	ug/L	0.380	1	96	12957	1
Cu	63	20.639	ug/L	0.227	1	240	157787	0
Cu	65	20.461	ug/L	0.226	1	98	74445	0
Zn	66	24.137	ug/L	0.162	0	302	59342	0
Zn	67	21.957	ug/L	0.310	1	85	9200	0
Zn	68	22.569	ug/L	0.159	0	8866	46265	0
As-1	75	19.566	ug/L	0.240	1	-176	37863	0
As	75	19.634	ug/L	0.278	1	9931	47178	0
Se	82	-0.015	ug/L	0.029	187	0	-2	251
Se	78	0.404	ug/L	0.155	38	10273	9512	0
Mo	98	424.961	ug/L	3.633	0	174	3051510	0
Y	89		ug/L			330409	292537	0
Kr	83		ug/L			77	93	4
> In	115		ug/L			492136	428002	0
Ag	107	18.623	ug/L	0.038	0	155	269998	0
Cd	111	19.277	ug/L	0.154	0	283	69502	0
Cd	114	20.019	ug/L	0.081	0	22	169074	0
Sb	121	0.100	ug/L	0.004	3	337	1440	3
Sb	123	0.105	ug/L	0.009	8	250	1123	6
Ba	135	0.004	ug/L	0.003	75	28	33	19
Ba	137	0.005	ug/L	0.003	53	41	55	19
> Tb	159		ug/L			385959	355617	0
Tl	205	-0.001	ug/L	0.000	10	104	62	6
Pb	208	0.049	ug/L	0.001	2	327	2445	2
Bi	209		ug/L			388516	341438	0
Th	232	-0.003	ug/L	0.001	46	1781	1478	5
U	238	-0.001	ug/L	0.000	41	152	93	21

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:14:20

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			541893	557010	1
[Be	9	46.595	ug/L	0.722	1	2	28009	1
C	13		mg/L			5578	4982	0
Cl	37		mg/L			3088599	2879303	0
[> Sc	45		ug/L			338057	313785	1
Na	23	4718.265	ug/L	54.223	1	20206	38040398	1
Mg	24	4673.540	ug/L	57.009	1	11798	25977304	0
Al	27	4636.383	ug/L	30.210	0	8584	41021850	0
K	39	4749.985	ug/L	57.479	1	634484	59372249	0
Ca	43	4956.028	ug/L	85.696	1	191	121551	0
V-1	51	51.145	ug/L	0.972	1	3098	759769	0
V	51	50.967	ug/L	0.797	1	848	770850	0
Cr	52	51.124	ug/L	1.159	2	9289	674698	0
Cr	53	50.576	ug/L	0.648	1	330	79784	0
Fe	54	5108.992	ug/L	77.259	1	38293	5767251	0
Fe	57	5104.865	ug/L	138.584	2	11603	2474991	1
Mn	55	50.166	ug/L	1.338	2	1893	1166480	1
Co	59	50.575	ug/L	0.729	1	108	863060	0
[> Ge	72		ug/L			403624	380550	0
Ni	60	50.996	ug/L	0.697	1	58	183040	0
Ni	62	51.152	ug/L	0.748	1	96	27388	1
Cu	63	50.897	ug/L	0.469	0	240	404954	0
Cu	65	50.389	ug/L	0.478	0	98	190816	0
Zn	66	51.044	ug/L	0.547	1	302	130387	0
Zn	67	49.919	ug/L	0.628	1	85	21685	1
Zn	68	50.605	ug/L	0.227	0	8866	97662	0
As-1	75	49.700	ug/L	0.209	0	-176	100433	0
As	75	49.470	ug/L	0.228	0	9931	109584	0
Se	82	51.343	ug/L	0.364	0	0	11063	0
Se	78	50.464	ug/L	0.441	0	10273	37428	0
Mo	98	50.919	ug/L	0.191	0	174	380973	0
Y	89		ug/L			330409	313760	0
Kr	83		ug/L			77	83	3
[> In	115		ug/L			492136	456682	0
Ag	107	49.574	ug/L	0.210	0	155	766654	0
Cd	111	49.562	ug/L	0.332	0	283	190263	0
Cd	114	49.749	ug/L	0.250	0	22	448291	0
Sb	121	48.788	ug/L	0.291	0	337	596001	0
Sb	123	48.852	ug/L	0.061	0	250	448720	0
Ba	135	48.839	ug/L	0.167	0	28	128519	0
Ba	137	49.016	ug/L	0.212	0	41	215576	0
[> Tb	159		ug/L			385959	382265	0
Tl	205	44.955	ug/L	0.415	0	104	1523009	0
Pb	208	45.560	ug/L	0.269	0	327	2138526	0
Bi	209		ug/L			388516	360798	0
Th	232	46.724	ug/L	0.199	0	1781	2731588	0
U	238	46.882	ug/L	0.235	0	152	3045312	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:21:55

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	565660	1
[Be	9	0.004	ug/L	0.002	57	2	4	31
C	13		mg/L			5578	5255	1
Cl	37		mg/L			3088599	2933181	0
> Sc	45		ug/L			338057	315607	0
Na	23	0.593	ug/L	0.110	18	20206	23672	3
Mg	24	0.030	ug/L	0.126	423	11798	11182	6
Al	27	0.546	ug/L	0.071	12	8584	12874	5
K	39	2.300	ug/L	0.130	5	634484	620981	0
Ca	43	0.008	ug/L	0.675	8067	191	179	9
V-1	51	0.010	ug/L	0.007	63	3098	3045	3
V	51	0.028	ug/L	0.001	2	848	1214	0
Cr	52	0.027	ug/L	0.005	19	9289	9028	0
Cr	53	0.080	ug/L	0.025	30	330	434	9
Fe	54	0.582	ug/L	0.525	90	38293	36408	1
Fe	57	1.633	ug/L	0.183	11	11603	11625	0
Mn	55	0.002	ug/L	0.003	169	1893	1808	4
Co	59	0.004	ug/L	0.002	62	108	164	24
> Ge	72		ug/L			403624	385865	0
Ni	60	0.002	ug/L	0.005	280	58	62	26
Ni	62	-0.004	ug/L	0.032	859	96	90	19
Cu	63	0.001	ug/L	0.003	203	240	241	10
Cu	65	0.005	ug/L	0.003	59	98	115	10
Zn	66	-0.015	ug/L	0.009	55	302	248	9
Zn	67	0.036	ug/L	0.016	44	85	97	7
Zn	68	-0.233	ug/L	0.124	53	8866	8059	2
As-1	75	0.002	ug/L	0.008	456	-176	-165	10
As	75	-0.024	ug/L	0.022	89	9931	9444	0
Se	82	0.002	ug/L	0.010	569	0	1	176
Se	78	-0.095	ug/L	0.067	70	10273	9768	0
[Mo	98	0.029	ug/L	0.010	32	174	390	18
Y	89		ug/L			330409	322627	0
Kr	83		ug/L			77	74	2
> In	115		ug/L			492136	466240	0
Ag	107	0.006	ug/L	0.002	32	155	244	13
Cd	111	-0.000	ug/L	0.003	917	283	266	5
Cd	114	0.002	ug/L	0.001	52	22	40	25
Sb	121	0.001	ug/L	0.003	271	337	334	12
Sb	123	0.003	ug/L	0.003	91	250	267	10
Ba	135	-0.000	ug/L	0.003	1233	28	26	29
[Ba	137	0.001	ug/L	0.002	162	41	45	21
> Tb	159		ug/L			385959	390914	0
Tl	205	0.003	ug/L	0.001	24	104	207	12
Pb	208	0.003	ug/L	0.001	29	327	460	8
Bi	209		ug/L			388516	377083	0
Th	232	0.017	ug/L	0.007	42	1781	2844	15
[U	238	0.003	ug/L	0.002	50	152	364	29

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:29:42

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			541893	567773	1
[Be	9	-0.001	ug/L	0.001	145	2	1	43
C	13		mg/L			5578	5349	1
Cl	37		mg/L			3088599	2935875	0
[> Sc	45		ug/L			338057	321044	0
Na	23	-0.239	ug/L	0.013	5	20206	17219	0
Mg	24	-1.189	ug/L	0.029	2	11798	4444	3
Al	27	0.325	ug/L	0.055	16	8584	11090	4
K	39	1.207	ug/L	0.203	16	634484	617828	0
Ca	43	-2.407	ug/L	0.732	30	191	121	14
V-1	51	0.006	ug/L	0.008	124	3098	3036	3
V	51	0.019	ug/L	0.004	18	848	1097	4
Cr	52	0.023	ug/L	0.008	34	9289	9125	0
Cr	53	0.061	ug/L	0.017	28	330	411	7
Fe	54	0.083	ug/L	0.374	451	38293	36460	0
Fe	57	1.206	ug/L	0.447	37	11603	11614	1
Mn	55	-0.034	ug/L	0.001	3	1893	988	2
Co	59	-0.001	ug/L	0.001	66	108	81	18
[> Ge	72		ug/L			403624	386800	0
Ni	60	-0.002	ug/L	0.002	91	58	48	14
Ni	62	-0.023	ug/L	0.017	74	96	79	11
Cu	63	-0.000	ug/L	0.002	443	240	227	6
Cu	65	-0.001	ug/L	0.003	204	98	89	11
Zn	66	-0.022	ug/L	0.003	14	302	232	3
Zn	67	0.021	ug/L	0.012	55	85	91	5
Zn	68	-0.237	ug/L	0.102	43	8866	8071	2
As-1	75	-0.004	ug/L	0.005	118	-176	-178	5
As	75	-0.020	ug/L	0.028	140	9931	9476	0
Se	82	0.013	ug/L	0.020	154	0	3	118
Se	78	-0.055	ug/L	0.101	182	10273	9813	0
[Mo	98	-0.000	ug/L	0.001	319	174	164	6
Y	89		ug/L			330409	323465	0
Kr	83		ug/L			77	72	1
[> In	115		ug/L			492136	469386	0
Ag	107	-0.003	ug/L	0.002	62	155	102	26
Cd	111	-0.006	ug/L	0.004	68	283	245	7
Cd	114	-0.001	ug/L	0.000	49	22	16	13
Sb	121	-0.016	ug/L	0.001	8	337	125	13
Sb	123	-0.015	ug/L	0.001	4	250	95	8
Ba	135	-0.004	ug/L	0.002	54	28	15	38
[Ba	137	-0.003	ug/L	0.002	53	41	24	33
[> Tb	159		ug/L			385959	389915	1
Tl	205	-0.001	ug/L	0.000	58	104	86	14
Pb	208	-0.001	ug/L	0.000	43	327	287	5
Bi	209		ug/L			388516	378136	1
Th	232	-0.012	ug/L	0.000	4	1781	1086	1
[U	238	-0.001	ug/L	0.000	20	152	77	20

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:37:31

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	565905	0
[Be	9	-0.001	ug/L	0.001	143	2	1	43
C	13		mg/L			5578	5326	0
Cl	37		mg/L			3088599	2953217	0
> Sc	45		ug/L			338057	320027	1
Na	23	-0.287	ug/L	0.053	18	20206	16769	1
Mg	24	-1.222	ug/L	0.011	0	11798	4241	0
Al	27	0.272	ug/L	0.020	7	8584	10575	0
K	39	1.312	ug/L	0.653	49	634484	617129	0
Ca	43	-2.524	ug/L	0.707	28	191	118	14
V-1	51	0.006	ug/L	0.007	123	3098	3024	2
V	51	0.016	ug/L	0.001	3	848	1048	0
Cr	52	0.017	ug/L	0.007	37	9289	9024	0
Cr	53	0.047	ug/L	0.022	45	330	387	9
Fe	54	-0.247	ug/L	0.367	148	38293	35964	0
Fe	57	1.711	ug/L	0.618	36	11603	11824	1
Mn	55	-0.033	ug/L	0.002	5	1893	1004	5
[Co	59	-0.002	ug/L	0.001	43	108	73	17
> Ge	72		ug/L			403624	386728	0
Ni	60	-0.001	ug/L	0.000	26	58	51	2
Ni	62	-0.023	ug/L	0.015	63	96	79	10
Cu	63	0.001	ug/L	0.001	171	240	236	3
Cu	65	0.002	ug/L	0.002	128	98	100	7
Zn	66	-0.016	ug/L	0.010	62	302	247	10
Zn	67	-0.001	ug/L	0.019	1496	85	81	10
Zn	68	-0.277	ug/L	0.030	10	8866	7998	0
As-1	75	0.016	ug/L	0.024	146	-176	-135	36
As	75	0.015	ug/L	0.013	86	9931	9546	0
Se	82	-0.001	ug/L	0.017	2359	0	0	546
Se	78	0.005	ug/L	0.088	1613	10273	9846	0
[Mo	98	-0.005	ug/L	0.001	25	174	131	7
Y	89		ug/L			330409	324202	0
Kr	83		ug/L			77	77	6
> In	115		ug/L			492136	467162	0
Ag	107	-0.003	ug/L	0.000	12	155	96	6
Cd	111	-0.004	ug/L	0.003	72	283	251	5
Cd	114	-0.001	ug/L	0.001	99	22	16	30
Sb	121	-0.018	ug/L	0.000	2	337	95	5
Sb	123	-0.018	ug/L	0.001	7	250	71	17
Ba	135	-0.005	ug/L	0.001	15	28	12	17
[Ba	137	-0.000	ug/L	0.002	372	41	37	20
> Tb	159		ug/L			385959	389256	1
Tl	205	-0.001	ug/L	0.000	53	104	75	20
Pb	208	-0.001	ug/L	0.000	9	327	278	2
Bi	209		ug/L			388516	378304	0
Th	232	-0.016	ug/L	0.001	5	1781	845	5
[U	238	-0.001	ug/L	0.000	3	152	60	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:44:39

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	564105	0
[Be	9	0.003	ug/L	0.005	208	2	3	88
C	13		mg/L			5578	5279	1
Cl	37		mg/L			3088599	2965795	0
> Sc	45		ug/L			338057	321889	0
Na	23	-0.305	ug/L	0.015	5	20206	16718	0
Mg	24	-1.173	ug/L	0.060	5	11798	4548	7
Al	27	0.328	ug/L	0.024	7	8584	11153	2
K	39	1.109	ug/L	0.068	6	634484	618211	0
Ca	43	-2.603	ug/L	0.644	24	191	117	13
V-1	51	0.003	ug/L	0.005	174	3098	2996	2
V	51	0.013	ug/L	0.004	28	848	1007	5
Cr	52	0.025	ug/L	0.005	18	9289	9180	0
Cr	53	0.054	ug/L	0.010	17	330	401	3
Fe	54	-0.250	ug/L	0.050	20	38293	36174	0
Fe	57	1.797	ug/L	0.033	1	11603	11938	0
Mn	55	-0.030	ug/L	0.008	27	1893	1091	17
Co	59	-0.001	ug/L	0.000	65	108	90	9
> Ge	72		ug/L			403624	390946	0
Ni	60	-0.002	ug/L	0.001	46	58	48	7
Ni	62	-0.017	ug/L	0.015	91	96	84	10
Cu	63	-0.000	ug/L	0.003	40360	240	232	10
Cu	65	-0.002	ug/L	0.003	166	98	89	10
Zn	66	-0.013	ug/L	0.004	29	302	259	3
Zn	67	0.008	ug/L	0.028	361	85	86	15
Zn	68	-0.326	ug/L	0.027	8	8866	7997	0
As-1	75	0.001	ug/L	0.004	252	-176	-168	4
As	75	-0.047	ug/L	0.035	73	9931	9521	0
Se	82	-0.001	ug/L	0.012	1628	0	0	403
Se	78	-0.170	ug/L	0.120	70	10273	9854	0
[Mo	98	-0.007	ug/L	0.000	4	174	117	1
Y	89		ug/L			330409	326762	0
Kr	83		ug/L			77	77	2
> In	115		ug/L			492136	468144	0
Ag	107	-0.004	ug/L	0.001	14	155	84	11
Cd	111	-0.004	ug/L	0.004	99	283	253	5
Cd	114	-0.001	ug/L	0.001	48	22	10	48
Sb	121	-0.020	ug/L	0.001	3	337	73	12
Sb	123	-0.019	ug/L	0.001	4	250	63	13
Ba	135	-0.004	ug/L	0.003	62	28	15	46
[Ba	137	-0.003	ug/L	0.000	4	41	27	2
> Tb	159		ug/L			385959	389908	0
Tl	205	-0.001	ug/L	0.000	3	104	65	2
Pb	208	-0.001	ug/L	0.001	48	327	271	10
Bi	209		ug/L			388516	378648	0
Th	232	-0.018	ug/L	0.001	3	1781	728	4
[U	238	-0.002	ug/L	0.000	5	152	53	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:51:47

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	570146	1
[Be	9	-0.002	ug/L	0.000	2	2	1	0
C	13		mg/L			5578	5248	1
Cl	37		mg/L			3088599	2975780	0
> Sc	45		ug/L			338057	323344	0
Na	23	-0.287	ug/L	0.029	9	20206	16942	1
Mg	24	-1.219	ug/L	0.031	2	11798	4306	3
Al	27	0.298	ug/L	0.039	13	8584	10928	3
K	39	1.064	ug/L	0.414	38	634484	620425	0
Ca	43	-2.674	ug/L	0.170	6	191	115	3
V-1	51	0.007	ug/L	0.005	73	3098	3067	2
V	51	0.012	ug/L	0.001	11	848	1002	2
Cr	52	0.023	ug/L	0.005	21	9289	9192	0
Cr	53	0.039	ug/L	0.016	42	330	378	6
Fe	54	0.002	ug/L	0.433	28757	38293	36629	1
Fe	57	2.040	ug/L	0.463	22	11603	12113	1
Mn	55	-0.035	ug/L	0.001	2	1893	978	1
[Co	59	-0.001	ug/L	0.000	26	108	87	4
> Ge	72		ug/L			403624	388958	0
Ni	60	-0.001	ug/L	0.002	152	58	51	14
Ni	62	-0.032	ug/L	0.019	58	96	75	13
Cu	63	0.000	ug/L	0.002	54507	240	231	4
Cu	65	0.000	ug/L	0.006	2142	98	96	25
Zn	66	-0.020	ug/L	0.003	14	302	238	2
Zn	67	-0.016	ug/L	0.022	139	85	75	12
Zn	68	-0.307	ug/L	0.055	18	8866	7991	1
As-1	75	0.001	ug/L	0.007	800	-176	-168	7
As	75	-0.018	ug/L	0.045	253	9931	9533	0
Se	82	-0.026	ug/L	0.039	150	0	-4	177
Se	78	-0.072	ug/L	0.143	199	10273	9859	0
[Mo	98	-0.010	ug/L	0.001	12	174	95	10
Y	89		ug/L			330409	325444	0
Kr	83		ug/L			77	80	3
> In	115		ug/L			492136	473640	0
Ag	107	-0.004	ug/L	0.000	5	155	84	3
Cd	111	-0.006	ug/L	0.002	39	283	250	3
Cd	114	-0.001	ug/L	0.000	33	22	12	23
Sb	121	-0.020	ug/L	0.001	3	337	76	13
Sb	123	-0.019	ug/L	0.001	5	250	62	15
Ba	135	-0.004	ug/L	0.001	25	28	17	14
[Ba	137	-0.002	ug/L	0.001	50	41	29	17
> Tb	159		ug/L			385959	391116	0
Tl	205	-0.001	ug/L	0.000	12	104	59	9
Pb	208	-0.001	ug/L	0.000	24	327	280	4
Bi	209		ug/L			388516	379316	0
Th	232	-0.019	ug/L	0.001	3	1781	690	6
[U	238	-0.002	ug/L	0.000	2	152	50	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 11:58:55

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	563795	0
[Be	9	-0.000	ug/L	0.002	1795	2	2	69
C	13		mg/L			5578	5174	2
Cl	37		mg/L			3088599	2981195	0
> Sc	45		ug/L			338057	318162	1
Na	23	-0.113	ug/L	0.332	294	20206	18078	14
Mg	24	-1.231	ug/L	0.041	3	11798	4170	4
Al	27	0.237	ug/L	0.036	15	8584	10203	2
K	39	1.864	ug/L	0.703	37	634484	620469	0
Ca	43	-2.518	ug/L	0.657	26	191	117	14
V-1	51	0.003	ug/L	0.006	190	3098	2963	3
V	51	0.010	ug/L	0.003	27	848	958	5
Cr	52	0.029	ug/L	0.011	38	9289	9121	2
Cr	53	0.050	ug/L	0.001	1	330	389	0
Fe	54	-0.311	ug/L	0.344	110	38293	35688	2
Fe	57	2.577	ug/L	0.052	2	11603	12181	0
Mn	55	-0.033	ug/L	0.001	3	1893	994	2
Co	59	-0.002	ug/L	0.001	48	108	74	18
> Ge	72		ug/L			403624	389673	0
Ni	60	-0.001	ug/L	0.001	58	58	53	3
Ni	62	-0.016	ug/L	0.009	58	96	84	6
Cu	63	-0.001	ug/L	0.001	60	240	224	1
Cu	65	0.001	ug/L	0.004	269	98	100	13
Zn	66	-0.014	ug/L	0.007	48	302	255	6
Zn	67	-0.010	ug/L	0.013	130	85	78	7
Zn	68	-0.337	ug/L	0.093	27	8866	7950	2
As-1	75	-0.004	ug/L	0.013	334	-176	-178	14
As	75	-0.007	ug/L	0.005	71	9931	9574	0
Se	82	0.010	ug/L	0.011	107	0	3	76
Se	78	-0.007	ug/L	0.059	837	10273	9914	0
Mo	98	-0.011	ug/L	0.002	18	174	83	19
Y	89		ug/L			330409	322149	0
Kr	83		ug/L			77	73	1
> In	115		ug/L			492136	465368	0
Ag	107	-0.005	ug/L	0.000	6	155	75	5
Cd	111	-0.001	ug/L	0.003	435	283	265	3
Cd	114	-0.001	ug/L	0.000	46	22	13	24
Sb	121	-0.020	ug/L	0.001	4	337	74	14
Sb	123	-0.020	ug/L	0.002	8	250	53	27
Ba	135	-0.004	ug/L	0.001	15	28	16	8
Ba	137	-0.004	ug/L	0.001	14	41	20	14
> Tb	159		ug/L			385959	385185	0
Tl	205	-0.002	ug/L	0.000	12	104	51	12
Pb	208	-0.001	ug/L	0.000	10	327	274	1
Bi	209		ug/L			388516	377303	0
Th	232	-0.019	ug/L	0.000	1	1781	648	2
U	238	-0.002	ug/L	0.000	4	152	52	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:06:05

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	557167	0
[Be	9	0.001	ug/L	0.004	703	2	2	100
C	13		mg/L			5578	5078	1
Cl	37		mg/L			3088599	2957737	0
> Sc	45		ug/L			338057	316374	0
Na	23	0.624	ug/L	2.345	375	20206	23976	79
Mg	24	-1.794	ug/L	0.009	0	11798	992	5
Al	27	0.344	ug/L	0.068	19	8584	11098	5
K	39	1.463	ug/L	0.091	6	634484	612049	0
Ca	43	-4.345	ug/L	0.155	3	191	72	5
V-1	51	0.008	ug/L	0.009	115	3098	3020	4
V	51	0.012	ug/L	0.001	8	848	970	1
Cr	52	0.034	ug/L	0.010	29	9289	9140	1
Cr	53	0.043	ug/L	0.022	50	330	377	9
Fe	54	0.089	ug/L	0.206	231	38293	35938	0
Fe	57	2.757	ug/L	0.091	3	11603	12201	0
Mn	55	-0.051	ug/L	0.000	0	1893	578	0
[Co	59	-0.003	ug/L	0.000	17	108	57	13
> Ge	72		ug/L			403624	386920	0
Ni	60	0.000	ug/L	0.003	1450	58	57	19
Ni	62	-0.003	ug/L	0.006	238	96	90	4
Cu	63	0.002	ug/L	0.002	108	240	247	7
Cu	65	0.000	ug/L	0.004	1342	98	95	16
Zn	66	0.002	ug/L	0.009	483	302	294	7
Zn	67	0.001	ug/L	0.015	1010	85	82	7
Zn	68	-0.238	ug/L	0.064	26	8866	8072	0
As-1	75	-0.003	ug/L	0.017	542	-176	-175	20
As	75	0.042	ug/L	0.064	150	9931	9607	0
Se	82	0.008	ug/L	0.021	253	0	2	172
Se	78	0.181	ug/L	0.185	102	10273	9948	0
[Mo	98	-0.016	ug/L	0.001	6	174	46	16
Y	89		ug/L			330409	322492	0
Kr	83		ug/L			77	75	9
> In	115		ug/L			492136	462244	0
Ag	107	-0.007	ug/L	0.000	6	155	40	17
Cd	111	-0.006	ug/L	0.003	50	283	243	5
Cd	114	-0.001	ug/L	0.000	7	22	12	5
Sb	121	-0.022	ug/L	0.000	0	337	42	1
Sb	123	-0.023	ug/L	0.001	3	250	25	25
Ba	135	-0.005	ug/L	0.001	25	28	12	27
[Ba	137	-0.002	ug/L	0.001	73	41	30	18
> Tb	159		ug/L			385959	383836	0
Tl	205	-0.002	ug/L	0.000	3	104	32	8
Pb	208	-0.002	ug/L	0.000	10	327	250	2
Bi	209		ug/L			388516	376779	0
Th	232	-0.026	ug/L	0.000	0	1781	234	2
[U	238	-0.002	ug/L	0.000	2	152	17	22

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:13:17

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	549434	0
[Be	9	-0.002	ug/L	0.001	56	2	0	86
C	13		mg/L			5578	5090	1
Cl	37		mg/L			3088599	2972099	0
> Sc	45		ug/L			338057	317319	0
Na	23	-0.686	ug/L	0.011	1	20206	13379	1
Mg	24	-1.767	ug/L	0.012	0	11798	1145	6
Al	27	0.221	ug/L	0.015	6	8584	10035	0
K	39	1.499	ug/L	0.398	26	634484	614300	0
Ca	43	-4.135	ug/L	0.222	5	191	77	7
V-1	51	0.011	ug/L	0.001	8	3098	3069	0
V	51	0.010	ug/L	0.002	19	848	956	2
Cr	52	0.031	ug/L	0.007	23	9289	9127	1
Cr	53	0.029	ug/L	0.003	12	330	355	0
Fe	54	-0.206	ug/L	0.529	256	38293	35707	0
Fe	57	2.323	ug/L	0.317	13	11603	12024	0
Mn	55	-0.053	ug/L	0.001	1	1893	537	3
[Co	59	-0.003	ug/L	0.000	10	108	50	11
> Ge	72		ug/L			403624	388315	0
Ni	60	0.002	ug/L	0.002	91	58	63	9
Ni	62	-0.014	ug/L	0.038	272	96	85	24
Cu	63	0.002	ug/L	0.003	172	240	245	9
Cu	65	0.002	ug/L	0.003	141	98	102	10
Zn	66	0.002	ug/L	0.005	276	302	295	4
Zn	67	0.030	ug/L	0.023	77	85	95	10
Zn	68	-0.275	ug/L	0.019	6	8866	8035	0
As-1	75	0.005	ug/L	0.019	366	-176	-159	24
As	75	0.064	ug/L	0.016	25	9931	9687	0
Se	82	0.036	ug/L	0.019	53	0	8	48
Se	78	0.234	ug/L	0.084	36	10273	10014	0
[Mo	98	-0.013	ug/L	0.002	13	174	65	20
Y	89		ug/L			330409	323302	0
Kr	83		ug/L			77	70	2
> In	115		ug/L			492136	464300	0
Ag	107	-0.006	ug/L	0.001	8	155	47	18
Cd	111	-0.008	ug/L	0.001	9	283	237	1
Cd	114	-0.001	ug/L	0.000	38	22	9	46
Sb	121	-0.022	ug/L	0.000	1	337	45	6
Sb	123	-0.022	ug/L	0.001	2	250	30	18
Ba	135	-0.003	ug/L	0.002	58	28	17	31
[Ba	137	-0.003	ug/L	0.000	11	41	26	5
> Tb	159		ug/L			385959	385380	0
Tl	205	-0.002	ug/L	0.000	6	104	35	12
Pb	208	-0.002	ug/L	0.001	59	327	253	16
Bi	209		ug/L			388516	374890	0
Th	232	-0.025	ug/L	0.000	0	1781	290	1
[U	238	-0.002	ug/L	0.000	6	152	29	28

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:20:28

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldatab\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	554602	0
[Be	9	0.001	ug/L	0.004	334	2	2	89
C	13		mg/L			5578	5186	1
Cl	37		mg/L			3088599	2965410	0
> Sc	45		ug/L			338057	315957	0
Na	23	-0.680	ug/L	0.012	1	20206	13365	0
Mg	24	-1.786	ug/L	0.012	0	11798	1033	6
Al	27	0.209	ug/L	0.020	9	8584	9881	1
K	39	1.659	ug/L	0.197	11	634484	613676	0
Ca	43	-4.105	ug/L	0.019	0	191	77	0
V-1	51	0.004	ug/L	0.008	179	3098	2959	3
V	51	0.007	ug/L	0.003	52	848	892	6
Cr	52	0.035	ug/L	0.016	45	9289	9145	1
Cr	53	0.041	ug/L	0.005	11	330	372	1
Fe	54	0.273	ug/L	0.356	130	38293	36097	1
Fe	57	2.450	ug/L	0.496	20	11603	12035	1
Mn	55	-0.051	ug/L	0.002	3	1893	570	7
[Co	59	-0.003	ug/L	0.001	21	108	49	22
> Ge	72		ug/L			403624	388683	0
Ni	60	0.002	ug/L	0.004	243	58	63	26
Ni	62	-0.010	ug/L	0.011	110	96	87	6
Cu	63	0.002	ug/L	0.001	68	240	245	3
Cu	65	-0.000	ug/L	0.001	148	98	93	2
Zn	66	0.001	ug/L	0.002	273	302	292	2
Zn	67	0.001	ug/L	0.015	2709	85	82	8
Zn	68	-0.286	ug/L	0.015	5	8866	8022	0
As-1	75	0.002	ug/L	0.022	971	-176	-165	27
As	75	0.052	ug/L	0.019	37	9931	9671	0
Se	82	0.024	ug/L	0.018	76	0	6	65
Se	78	0.187	ug/L	0.052	27	10273	9997	0
[Mo	98	-0.015	ug/L	0.000	3	174	50	7
Y	89		ug/L			330409	323416	1
Kr	83		ug/L			77	70	1
> In	115		ug/L			492136	463827	0
Ag	107	-0.007	ug/L	0.001	12	155	42	31
Cd	111	-0.006	ug/L	0.003	53	283	242	5
Cd	114	-0.001	ug/L	0.001	72	22	13	44
Sb	121	-0.023	ug/L	0.000	1	337	37	14
Sb	123	-0.022	ug/L	0.000	1	250	30	8
Ba	135	-0.005	ug/L	0.000	0	28	12	0
[Ba	137	-0.002	ug/L	0.001	42	41	28	15
> Tb	159		ug/L			385959	382073	0
Tl	205	-0.002	ug/L	0.000	13	104	38	23
Pb	208	-0.002	ug/L	0.001	36	327	247	11
Bi	209		ug/L			388516	374795	0
Th	232	-0.026	ug/L	0.000	0	1781	267	4
[U	238	-0.002	ug/L	0.000	6	152	22	34

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:27:40

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	552520	0
[Be	9	-0.002	ug/L	0.002	111	2	0	173
C	13		mg/L			5578	5037	1
Cl	37		mg/L			3088599	2978719	0
> Sc	45		ug/L			338057	317664	1
Na	23	-0.702	ug/L	0.028	3	20206	13262	1
Mg	24	-1.798	ug/L	0.011	0	11798	973	6
Al	27	0.179	ug/L	0.010	5	8584	9668	0
K	39	1.523	ug/L	0.424	27	634484	615256	0
Ca	43	-4.609	ug/L	0.298	6	191	65	11
V-1	51	0.004	ug/L	0.008	200	3098	2974	3
V	51	0.006	ug/L	0.002	40	848	889	3
Cr	52	0.038	ug/L	0.008	21	9289	9233	1
Cr	53	0.042	ug/L	0.015	35	330	376	7
Fe	54	0.058	ug/L	0.386	661	38293	36047	0
Fe	57	2.530	ug/L	0.272	10	11603	12139	0
Mn	55	-0.036	ug/L	0.028	76	1893	931	68
Co	59	-0.003	ug/L	0.000	6	108	57	5
> Ge	72		ug/L			403624	389492	0
Ni	60	0.002	ug/L	0.003	173	58	62	15
Ni	62	-0.021	ug/L	0.026	123	96	81	17
Cu	63	0.003	ug/L	0.002	86	240	255	7
Cu	65	-0.001	ug/L	0.005	394	98	90	19
Zn	66	-0.003	ug/L	0.011	426	302	284	9
Zn	67	0.019	ug/L	0.011	59	85	91	5
Zn	68	-0.277	ug/L	0.070	25	8866	8054	1
As-1	75	-0.082	ug/L	0.162	196	-176	-342	98
As	75	-0.043	ug/L	0.165	382	9931	9493	3
Se	82	0.018	ug/L	0.015	83	0	4	68
Se	78	0.155	ug/L	0.038	24	10273	10000	0
Mo	98	-0.015	ug/L	0.001	4	174	51	10
Y	89		ug/L			330409	322342	0
Kr	83		ug/L			77	73	4
> In	115		ug/L			492136	463262	0
Ag	107	-0.007	ug/L	0.000	6	155	38	18
Cd	111	-0.005	ug/L	0.004	77	283	245	6
Cd	114	-0.001	ug/L	0.000	3	22	7	6
Sb	121	-0.023	ug/L	0.000	0	337	32	8
Sb	123	-0.023	ug/L	0.000	1	250	25	14
Ba	135	-0.003	ug/L	0.003	122	28	20	40
Ba	137	-0.002	ug/L	0.001	27	41	29	8
> Tb	159		ug/L			385959	382888	0
Tl	205	-0.002	ug/L	0.000	7	104	34	15
Pb	208	-0.002	ug/L	0.000	13	327	252	4
Bi	209		ug/L			388516	375527	0
Th	232	-0.026	ug/L	0.000	0	1781	239	2
U	238	-0.002	ug/L	0.000	6	152	22	36

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:34:53

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	559041	0
[Be	9	-0.001	ug/L	0.003	383	2	1	114
C	13		mg/L			5578	5034	1
Cl	37		mg/L			3088599	2972989	0
> Sc	45		ug/L			338057	318227	0
Na	23	-0.694	ug/L	0.016	2	20206	13347	0
Mg	24	-1.797	ug/L	0.004	0	11798	978	1
Al	27	0.161	ug/L	0.005	3	8584	9522	0
K	39	1.392	ug/L	0.221	15	634484	614730	0
Ca	43	-4.630	ug/L	0.214	4	191	65	7
V-1	51	0.006	ug/L	0.007	120	3098	3006	3
V	51	0.005	ug/L	0.002	50	848	870	4
Cr	52	0.036	ug/L	0.008	22	9289	9218	0
Cr	53	0.030	ug/L	0.019	63	330	358	8
Fe	54	0.104	ug/L	0.646	620	38293	36163	1
Fe	57	2.285	ug/L	0.255	11	11603	12041	1
Mn	55	-0.052	ug/L	0.001	1	1893	563	2
[Co	59	-0.003	ug/L	0.000	9	108	52	9
> Ge	72		ug/L			403624	389106	0
Ni	60	-0.001	ug/L	0.002	192	58	52	15
Ni	62	-0.007	ug/L	0.015	206	96	88	9
Cu	63	0.002	ug/L	0.000	16	240	245	1
Cu	65	-0.003	ug/L	0.005	189	98	84	23
Zn	66	0.011	ug/L	0.002	23	302	319	2
Zn	67	0.030	ug/L	0.025	80	85	96	11
Zn	68	-0.281	ug/L	0.016	5	8866	8040	0
As-1	75	-0.017	ug/L	0.013	78	-176	-205	13
As	75	0.042	ug/L	0.036	85	9931	9660	0
Se	82	0.003	ug/L	0.060	2385	0	1	919
Se	78	0.214	ug/L	0.129	60	10273	10023	0
[Mo	98	-0.016	ug/L	0.002	11	174	47	27
Y	89		ug/L			330409	325665	0
Kr	83		ug/L			77	73	8
> In	115		ug/L			492136	467194	0
Ag	107	-0.006	ug/L	0.000	2	155	48	6
Cd	111	-0.007	ug/L	0.003	42	283	239	4
Cd	114	-0.002	ug/L	0.000	16	22	7	32
Sb	121	-0.023	ug/L	0.001	3	337	37	30
Sb	123	-0.023	ug/L	0.000	0	250	20	8
Ba	135	-0.005	ug/L	0.001	14	28	13	14
[Ba	137	-0.002	ug/L	0.001	66	41	30	18
> Tb	159		ug/L			385959	384218	0
Tl	205	-0.002	ug/L	0.000	12	104	31	29
Pb	208	-0.002	ug/L	0.000	8	327	250	3
Bi	209		ug/L			388516	377700	0
Th	232	-0.026	ug/L	0.000	0	1781	252	1
[U	238	-0.002	ug/L	0.000	8	152	27	36

ICP-MS Quantitative Analysis - Summary Report

Sample ID: IDL10

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:42:05

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	554946	0
[Be	9	0.001	ug/L	0.003	243	2	2	65
C	13		mg/L			5578	5043	1
Cl	37		mg/L			3088599	2990986	0
> Sc	45		ug/L			338057	319440	0
Na	23	-0.703	ug/L	0.014	2	20206	13324	0
Mg	24	-1.806	ug/L	0.005	0	11798	932	3
Al	27	0.150	ug/L	0.013	8	8584	9465	1
K	39	1.332	ug/L	0.241	18	634484	616328	0
Ca	43	-4.740	ug/L	0.123	2	191	62	4
V-1	51	0.006	ug/L	0.009	145	3098	3016	4
V	51	0.005	ug/L	0.004	85	848	876	6
Cr	52	0.035	ug/L	0.009	24	9289	9240	1
Cr	53	0.030	ug/L	0.020	66	330	359	8
Fe	54	0.135	ug/L	0.488	362	38293	36339	1
Fe	57	2.685	ug/L	0.132	4	11603	12284	0
Mn	55	-0.053	ug/L	0.001	1	1893	542	3
[Co	59	-0.003	ug/L	0.000	18	108	58	13
> Ge	72		ug/L			403624	390374	0
Ni	60	-0.000	ug/L	0.004	723	58	55	24
Ni	62	-0.025	ug/L	0.006	25	96	79	4
Cu	63	-0.001	ug/L	0.004	303	240	222	13
Cu	65	0.000	ug/L	0.002	2841	98	95	9
Zn	66	0.004	ug/L	0.002	50	302	302	1
Zn	67	0.013	ug/L	0.033	256	85	88	16
Zn	68	-0.344	ug/L	0.025	7	8866	7953	0
As-1	75	-0.015	ug/L	0.007	45	-176	-202	7
As	75	0.052	ug/L	0.034	66	9931	9713	0
Se	82	-0.027	ug/L	0.029	110	0	-5	129
Se	78	0.221	ug/L	0.091	41	10273	10060	0
[Mo	98	-0.016	ug/L	0.001	6	174	46	17
Y	89		ug/L			330409	323964	0
Kr	83		ug/L			77	75	3
> In	115		ug/L			492136	468915	0
Ag	107	-0.006	ug/L	0.000	3	155	45	7
Cd	111	-0.005	ug/L	0.004	66	283	249	5
Cd	114	-0.001	ug/L	0.000	18	22	11	17
Sb	121	-0.023	ug/L	0.000	0	337	38	3
Sb	123	-0.022	ug/L	0.001	3	250	28	25
Ba	135	-0.004	ug/L	0.002	47	28	15	32
[Ba	137	-0.002	ug/L	0.001	89	41	32	19
> Tb	159		ug/L			385959	383865	0
Tl	205	-0.002	ug/L	0.000	2	104	34	5
Pb	208	-0.002	ug/L	0.000	16	327	242	4
Bi	209		ug/L			388516	376552	0
Th	232	-0.026	ug/L	0.001	2	1781	227	13
[U	238	-0.002	ug/L	0.000	8	152	22	50

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:49:16

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	565171	1
[Be	9	46.880	ug/L	0.048	0	2	28596	1
C	13		mg/L			5578	4965	1
Cl	37		mg/L			3088599	3008227	1
> Sc	45		ug/L			338057	323492	0
Na	23	4729.015	ug/L	107.658	2	20206	39302949	1
Mg	24	4698.948	ug/L	57.672	1	11798	26926827	0
Al	27	4663.431	ug/L	108.735	2	8584	42535197	1
K	39	4755.816	ug/L	68.969	1	634484	61285371	1
Ca	43	4894.009	ug/L	58.723	1	191	123754	0
V-1	51	50.061	ug/L	0.214	0	3098	766834	0
V	51	50.099	ug/L	0.243	0	848	781267	0
Cr	52	49.808	ug/L	0.202	0	9289	678002	0
Cr	53	49.941	ug/L	0.293	0	330	81229	0
Fe	54	5046.833	ug/L	62.196	1	38293	5874050	0
Fe	57	5048.228	ug/L	74.400	1	11603	2523729	0
Mn	55	49.022	ug/L	0.426	0	1893	1175377	0
Co	59	50.257	ug/L	0.442	0	108	884243	0
> Ge	72		ug/L			403624	385944	0
Ni	60	51.547	ug/L	0.146	0	58	187644	0
Ni	62	51.397	ug/L	0.612	1	96	27909	0
Cu	63	50.939	ug/L	0.393	0	240	411048	0
Cu	65	50.657	ug/L	0.155	0	98	194556	0
Zn	66	51.238	ug/L	0.074	0	302	132744	0
Zn	67	51.532	ug/L	0.982	1	85	22701	2
Zn	68	50.739	ug/L	0.348	0	8866	99285	0
As-1	75	50.167	ug/L	0.152	0	-176	102817	0
As	75	49.712	ug/L	0.196	0	9931	111635	0
Se	82	52.368	ug/L	0.278	0	0	11444	0
Se	78	50.664	ug/L	0.483	0	10273	38070	0
Mo	98	50.810	ug/L	0.164	0	174	385554	0
Y	89		ug/L			330409	319266	0
Kr	83		ug/L			77	85	11
> In	115		ug/L			492136	461765	0
Ag	107	49.980	ug/L	0.413	0	155	781512	0
Cd	111	49.449	ug/L	0.086	0	283	191939	0
Cd	114	49.932	ug/L	0.424	0	22	454929	0
Sb	121	49.090	ug/L	0.387	0	337	606336	0
Sb	123	48.953	ug/L	0.416	0	250	454640	0
Ba	135	48.676	ug/L	0.290	0	28	129511	0
Ba	137	49.370	ug/L	0.066	0	41	219554	0
> Tb	159		ug/L			385959	382524	1
Tl	205	45.970	ug/L	0.466	1	104	1558293	0
Pb	208	46.924	ug/L	0.469	0	327	2203822	0
Bi	209		ug/L			388516	370478	0
Th	232	48.070	ug/L	1.060	2	1781	2811455	0
[U	238	48.224	ug/L	0.560	1	152	3134245	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 12:57:06

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	565550	0
[Be	9	0.005	ug/L	0.002	43	2	5	25
C	13		mg/L			5578	5085	0
Cl	37		mg/L			3088599	3035412	0
> Sc	45		ug/L			338057	322541	0
Na	23	0.013	ug/L	0.071	544	20206	19384	2
Mg	24	-0.916	ug/L	0.051	5	11798	6023	4
Al	27	0.348	ug/L	0.055	15	8584	11354	3
K	39	1.793	ug/L	0.083	4	634484	628164	0
Ca	43	-2.596	ug/L	0.546	21	191	117	11
V-1	51	0.005	ug/L	0.004	80	3098	3027	2
V	51	0.006	ug/L	0.002	29	848	900	2
Cr	52	0.020	ug/L	0.007	34	9289	9132	1
Cr	53	0.023	ug/L	0.008	34	330	351	3
Fe	54	-0.052	ug/L	0.121	232	38293	36475	0
Fe	57	2.187	ug/L	0.531	24	11603	12156	2
Mn	55	-0.033	ug/L	0.001	3	1893	1026	2
Co	59	0.002	ug/L	0.001	49	108	141	12
> Ge	72		ug/L			403624	387662	0
Ni	60	0.003	ug/L	0.002	72	58	68	13
Ni	62	-0.008	ug/L	0.009	116	96	88	5
Cu	63	0.002	ug/L	0.004	248	240	245	14
Cu	65	0.001	ug/L	0.001	91	98	100	5
Zn	66	-0.021	ug/L	0.003	16	302	236	3
Zn	67	0.010	ug/L	0.011	117	85	86	5
Zn	68	-0.358	ug/L	0.074	20	8866	7871	1
As-1	75	0.005	ug/L	0.005	106	-176	-160	6
As	75	-0.010	ug/L	0.010	95	9931	9518	0
Se	82	0.034	ug/L	0.042	121	0	8	109
Se	78	-0.040	ug/L	0.034	86	10273	9844	0
Mo	98	0.006	ug/L	0.005	70	174	216	15
Y	89		ug/L			330409	326070	0
Kr	83		ug/L			77	70	1
> In	115		ug/L			492136	465822	0
Ag	107	0.006	ug/L	0.001	23	155	236	9
Cd	111	0.002	ug/L	0.002	95	283	277	3
Cd	114	0.003	ug/L	0.001	44	22	44	23
Sb	121	-0.001	ug/L	0.002	219	337	306	9
Sb	123	0.002	ug/L	0.003	130	250	258	11
Ba	135	0.001	ug/L	0.001	117	28	29	9
Ba	137	0.001	ug/L	0.002	267	41	42	24
> Tb	159		ug/L			385959	388672	0
Tl	205	0.003	ug/L	0.001	44	104	206	21
Pb	208	0.003	ug/L	0.001	26	327	488	8
Bi	209		ug/L			388516	383159	0
Th	232	0.024	ug/L	0.004	18	1781	3197	7
U	238	0.004	ug/L	0.001	25	152	400	15

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF97 MB REN

Sample Dil Factor: 2

Comments: * 1-280

Sample Date/Time: Friday, January 28, 2011 13:06:21

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	577915	0
[Be	9	0.003	ug/L	0.001	35	2	4	17
C	13		mg/L			5578	5857	2
Cl	37		mg/L			3088599	3009729	0
> Sc	45		ug/L			338057	328168	0
Na	23	4.169	ug/L	0.039	0	20206	54750	0
Mg	24	-0.621	ug/L	0.027	4	11798	7843	1
Al	27	0.699	ug/L	0.053	7	8584	14798	3
K	39	2.152	ug/L	0.217	10	634484	643768	0
Ca	43	-2.026	ug/L	0.370	18	191	134	7
V-1	51	0.013	ug/L	0.009	67	3098	3216	3
V	51	0.009	ug/L	0.002	21	848	965	2
Cr	52	0.040	ug/L	0.014	33	9289	9565	1
Cr	53	0.025	ug/L	0.015	60	330	361	7
Fe	54	8.424	ug/L	0.118	1	38293	47058	0
Fe	57	2.388	ug/L	0.285	11	11603	12470	1
Mn	55	-0.040	ug/L	0.001	1	1893	869	1
Co	59	-0.000	ug/L	0.000	133	108	103	2
> Ge	72		ug/L			403624	391513	0
Ni	60	0.014	ug/L	0.003	25	58	107	11
Ni	62	0.024	ug/L	0.016	67	96	106	7
Cu	63	0.032	ug/L	0.004	11	240	492	6
Cu	65	0.035	ug/L	0.004	11	98	233	7
Zn	66	0.639	ug/L	0.007	1	302	1969	0
Zn	67	0.521	ug/L	0.040	7	85	315	5
Zn	68	0.197	ug/L	0.066	33	8866	8958	1
As-1	75	-0.011	ug/L	0.013	115	-176	-194	13
As	75	-0.076	ug/L	0.053	70	9931	9474	0
Se	82	0.008	ug/L	0.038	490	0	2	325
Se	78	-0.239	ug/L	0.183	76	10273	9829	0
Mo	98	0.006	ug/L	0.004	72	174	214	15
Y	89		ug/L			330409	327224	0
Kr	83		ug/L			77	73	12
> In	115		ug/L			492136	472261	0
Ag	107	-0.000	ug/L	0.001	1800	155	148	10
Cd	111	0.004	ug/L	0.004	107	283	288	6
Cd	114	0.002	ug/L	0.001	56	22	44	29
Sb	121	-0.016	ug/L	0.001	3	337	125	5
Sb	123	-0.016	ug/L	0.000	2	250	86	5
Ba	135	0.004	ug/L	0.004	113	28	37	31
Ba	137	0.003	ug/L	0.003	94	41	52	23
> Tb	159		ug/L			385959	392483	1
Tl	205	0.001	ug/L	0.000	35	104	133	7
Pb	208	0.002	ug/L	0.000	16	327	428	5
Bi	209		ug/L			388516	384140	0
Th	232	-0.004	ug/L	0.001	15	1781	1578	3
U	238	0.001	ug/L	0.000	31	152	218	10

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF97 MBSPK REN

Sample Dil Factor: *2*

Comments: *1-22*

Sample Date/Time: Friday, January 28, 2011 13:13:15

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	564282	1
[Be	9	24.681	ug/L	0.130	0	2	15032	0
C	13		mg/L			5578	7777	1
Cl	37		mg/L			3088599	3018491	0
> Sc	45		ug/L			338057	319997	0
Na	23	4990.751	ug/L	19.166	0	20206	41033167	0
Mg	24	4965.359	ug/L	22.209	0	11798	28147104	0
Al	27	4891.355	ug/L	51.112	1	8584	44135429	0
K	39	4973.416	ug/L	60.307	1	634484	63370973	0
Ca	43	5138.592	ug/L	53.928	1	191	128532	0
V-1	51	26.698	ug/L	0.200	0	3098	405911	0
V	51	26.650	ug/L	0.183	0	848	411483	0
Cr	52	27.111	ug/L	0.169	0	9289	369071	0
Cr	53	26.938	ug/L	0.103	0	330	43487	0
Fe	54	5327.161	ug/L	15.234	0	38293	6131758	0
Fe	57	5324.912	ug/L	67.336	1	11603	2632824	0
Mn	55	26.739	ug/L	0.264	0	1893	635017	0
[Co	59	27.066	ug/L	0.300	1	108	471121	0
> Ge	72		ug/L			403624	383099	0
Ni	60	27.864	ug/L	0.087	0	58	100710	0
Ni	62	27.688	ug/L	0.390	1	96	14966	1
Cu	63	27.436	ug/L	0.193	0	240	219859	0
Cu	65	27.206	ug/L	0.166	0	98	103761	0
Zn	66	84.114	ug/L	0.745	0	302	216122	0
Zn	67	77.300	ug/L	0.167	0	85	33760	0
Zn	68	82.312	ug/L	0.428	0	8866	154644	0
As-1	75	26.410	ug/L	0.120	0	-176	53649	0
As	75	26.001	ug/L	0.190	0	9931	62456	0
Se	82	83.724	ug/L	0.193	0	0	18161	0
Se	78	81.955	ug/L	0.068	0	10273	55108	0
[Mo	98	-0.005	ug/L	0.001	13	174	128	3
Y	89		ug/L			330409	315144	0
Kr	83		ug/L			77	81	1
> In	115		ug/L			492136	459227	0
Ag	107	25.737	ug/L	0.144	0	155	400305	0
Cd	111	26.154	ug/L	0.338	1	283	101076	0
Cd	114	26.045	ug/L	0.047	0	22	236012	0
Sb	121	-0.014	ug/L	0.001	7	337	145	7
Sb	123	-0.014	ug/L	0.000	1	250	103	1
Ba	135	26.075	ug/L	0.239	0	28	69006	0
[Ba	137	26.437	ug/L	0.350	1	41	116929	0
> Tb	159		ug/L			385959	379990	0
Tl	205	24.651	ug/L	0.214	0	104	830226	0
Pb	208	25.093	ug/L	0.162	0	327	1170993	0
Bi	209		ug/L			388516	370090	0
Th	232	24.913	ug/L	0.177	0	1781	1448584	0
[U	238	24.908	ug/L	0.150	0	152	1608401	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF97 A REN

Sample Dil Factor: *2*

Comments: *2x, 20*

Sample Date/Time: Friday, January 28, 2011 13:20:09

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			541893	562150	1
[Be	9	0.010	ug/L	0.003	34	2	7	24
C	13		mg/L			5578	8209	0
Cl	37		mg/L			3088599	3166779	0
[> Sc	45		ug/L			338057	344654	1
Na	23	9774.183	ug/L	62.675	0	20206	86531334	1
Mg	24	2438.607	ug/L	22.448	0	11798	14893900	0
Al	27	651.466	ug/L	9.107	1	8584	6338292	0
K	39	1538.071	ug/L	5.161	0	634484	21555028	1
Ca	43	15068.781	ug/L	69.246	0	191	405580	1
V-1	51	3.079	ug/L	0.028	0	3098	53213	1
V	51	3.123	ug/L	0.017	0	848	52694	1
Cr	52	1.619	ug/L	0.008	0	9289	32642	1
Cr	53	1.846	ug/L	0.028	1	330	3522	2
Fe	54	666.354	ug/L	6.739	1	38293	860174	0
Fe	57	678.871	ug/L	3.776	0	11603	371860	1
Mn	55	14.129	ug/L	0.087	0	1893	362297	0
[Co	59	0.342	ug/L	0.006	1	108	6517	3
[> Ge	72		ug/L			403624	384714	0
Ni	60	2.032	ug/L	0.014	0	58	7428	1
Ni	62	1.999	ug/L	0.055	2	96	1170	2
Cu	63	9.755	ug/L	0.036	0	240	78650	0
Cu	65	9.544	ug/L	0.046	0	98	36615	0
Zn	66	8.826	ug/L	0.044	0	302	23030	0
Zn	67	8.395	ug/L	0.148	1	85	3754	1
Zn	68	8.681	ug/L	0.101	1	8866	23938	0
As-1	75	1.014	ug/L	0.014	1	-176	1905	2
As	75	1.010	ug/L	0.037	3	9931	11534	0
Se	82	0.158	ug/L	0.033	20	0	35	20
Se	78	0.138	ug/L	0.154	111	10273	9867	0
[Mo	98	0.763	ug/L	0.011	1	174	5931	1
Y	89		ug/L			330409	328089	1
Kr	83		ug/L			77	72	4
[> In	115		ug/L			492136	459884	1
Ag	107	0.012	ug/L	0.004	35	155	334	21
Cd	111	0.032	ug/L	0.014	43	283	388	14
Cd	114	<i>✓</i> 0.021	ug/L	0.003	15	22	210	14
Sb	121	0.680	ug/L	0.014	2	337	8681	2
Sb	123	0.675	ug/L	0.005	0	250	6475	1
Ba	135	13.097	ug/L	0.079	0	28	34724	0
[Ba	137	13.246	ug/L	0.086	0	41	58692	0
[> Tb	159		ug/L			385959	381282	1
Tl	205	0.006	ug/L	0.003	51	104	301	35
Pb	208	<i>✓</i> 0.458	ug/L	0.001	0	327	21739	1
Bi	209		ug/L			388516	370257	1
Th	232	0.086	ug/L	0.010	11	1781	6777	10
[U	238	0.054	ug/L	0.003	5	152	3672	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF97 B REN

Sample Dil Factor: 2

Comments: *AK-20*

Sample Date/Time: Friday, January 28, 2011 13:27:04

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			541893	562162	0
[Be	9	0.048	ug/L	0.002	4	2	31	4
C	13		mg/L			5578	8363	2
Cl	37		mg/L			3088599	2989132	0
[> Sc	45		ug/L			338057	368265	1
Na	23	2593.792	ug/L	38.037	1	20206	24549775	0
Mg	24	2148.511	ug/L	17.461	0	11798	14022693	0
Al	27	2324.300	ug/L	40.828	1	8584	24137411	0
K	39	1289.555	ug/L	21.203	1	634484	19419772	0
Ca	43	16931.143	ug/L	279.156	1	191	486835	0
V-1	51	11.527	ug/L	0.243	2	3098	203574	1
V	51	11.403	ug/L	0.205	1	848	203115	0
Cr	52	6.058	ug/L	0.168	2	9289	102742	1
Cr	53	6.021	ug/L	0.107	1	330	11463	0
Fe	54	2819.638	ug/L	39.053	1	38293	3754190	0
Fe	57	2755.466	ug/L	34.789	1	11603	1573874	0
Mn	55	100.809	ug/L	1.362	1	1893	2749198	0
Co	59	1.383	ug/L	0.018	1	108	27823	0
[> Ge	72		ug/L			403624	385276	0
Ni	60	5.563	ug/L	0.025	0	58	20266	0
Ni	62	6.547	ug/L	0.202	3	96	3628	2
Cu	63	12.681	ug/L	0.120	0	240	102319	0
Cu	65	12.686	ug/L	0.048	0	98	48710	0
Zn	66	47.552	ug/L	0.087	0	302	123000	0
Zn	67	43.612	ug/L	0.520	1	85	19191	1
Zn	68	46.946	ug/L	0.070	0	8866	92338	0
As-1	75	1.816	ug/L	0.004	0	-176	3552	0
As	75	1.790	ug/L	0.038	2	9931	13151	0
Se	82	0.160	ug/L	0.037	23	0	35	22
Se	78	0.100	ug/L	0.128	128	10273	9861	0
[Mo	98	0.879	ug/L	0.018	2	174	6825	1
Y	89		ug/L			330409	348905	0
Kr	83		ug/L			77	80	5
[> In	115		ug/L			492136	460636	0
Ag	107	0.033	ug/L	0.002	5	155	652	4
Cd	111	0.118	ug/L	0.008	7	283	719	3
Cd	114	0.066	ug/L	0.005	7	22	621	6
Sb	121	0.768	ug/L	0.011	1	337	9777	1
Sb	123	0.763	ug/L	0.011	1	250	7299	1
Ba	135	42.019	ug/L	0.454	1	28	111528	0
[Ba	137	42.572	ug/L	0.066	0	41	188863	0
[> Tb	159		ug/L			385959	381627	0
Tl	205	0.012	ug/L	0.001	6	104	497	5
Pb	208	2.661	ug/L	0.026	0	327	125000	0
Bi	209		ug/L			388516	375267	0
Th	232	0.193	ug/L	0.002	1	1781	13046	0
[U	238	0.150	ug/L	0.001	0	152	9901	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 HDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, January 28, 2011 13:36:07

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	560257	1
[Be	9	0.001	ug/L	0.003	249	2	2	65
C	13		mg/L			5578	10178	3
Cl	37		mg/L			3088599	3110239	0
> Sc	45		ug/L			338057	349677	0
Na	23	10821.858	ug/L	194.196	1	20206	97197029	1
Mg	24	10652.301	ug/L	126.213	1	11798	65968682	0
Al	27	40.089	ug/L	0.342	0	8584	404080	0
K	39	2815.554	ug/L	32.604	1	634484	39487139	0
Ca	43	41270.089	ug/L	309.839	0	191	1126680	1
V-1	51	0.909	ug/L	0.009	0	3098	18202	0
V	51	0.949	ug/L	0.009	0	848	16855	1
Cr	52	0.313	ug/L	0.019	6	9289	14155	1
Cr	53	0.472	ug/L	0.032	6	330	1168	5
Fe	54	36.262	ug/L	0.622	1	38293	84947	0
Fe	57	136.013	ug/L	2.819	2	11603	85178	1
Mn	55	133.724	ug/L	1.251	0	1893	3462432	0
[Co	59	0.260	ug/L	0.007	2	108	5064	2
> Ge	72		ug/L			403624	370281	0
Ni	60	1.963	ug/L	0.046	2	58	6906	2
Ni	62	0.709	ug/L	0.029	4	96	456	2
Cu	63	2.282	ug/L	0.015	0	240	17874	1
Cu	65	2.246	ug/L	0.014	0	98	8361	0
Zn	66	0.944	ug/L	0.033	3	302	2618	2
Zn	67	1.572	ug/L	0.039	2	85	740	2
Zn	68	1.245	ug/L	0.032	2	8866	10271	0
As-1	75	1.101	ug/L	0.005	0	-176	2007	1
As	75	1.098	ug/L	0.046	4	9931	11275	1
Se	82	0.328	ug/L	0.057	17	0	69	17
Se	78	0.324	ug/L	0.150	46	10273	9597	1
[Mo	98	0.308	ug/L	0.002	0	174	2402	0
Y	89		ug/L			330409	320998	0
Kr	83		ug/L			77	72	12
> In	115		ug/L			492136	443875	0
Ag	107	0.006	ug/L	0.001	18	155	229	7
Cd	111	0.057	ug/L	0.004	6	283	467	3
Cd	114	0.051	ug/L	0.004	6	22	468	7
Sb	121	0.137	ug/L	0.006	4	337	1924	4
Sb	123	0.144	ug/L	0.007	5	250	1514	4
Ba	135	29.135	ug/L	0.124	0	28	74529	0
[Ba	137	29.296	ug/L	0.102	0	41	125250	0
> Tb	159		ug/L			385959	368507	0
Tl	205	0.005	ug/L	0.000	10	104	251	6
Pb	208	0.036	ug/L	0.001	1	327	1931	1
Bi	209		ug/L			388516	352942	0
Th	232	-0.006	ug/L	0.001	16	1781	1336	4
[U	238	0.048	ug/L	0.001	2	152	3127	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, January 28, 2011 13:43:03

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	564384	1
[Be	9	0.003	ug/L	0.005	157	2	4	75
C	13		mg/L			5578	10282	1
Cl	37		mg/L			3088599	3092002	0
> Sc	45		ug/L			338057	349432	0
Na	23	10865.595	ug/L	160.191	1	20206	97522254	0
Mg	24	10674.965	ug/L	49.322	0	11798	66064764	0
Al	27	39.813	ug/L	0.722	1	8584	401056	1
K	39	2780.494	ug/L	32.947	1	634484	38976275	0
Ca	43	40896.612	ug/L	44.548	0	191	1115695	0
V-1	51	0.896	ug/L	0.014	1	3098	17968	1
V	51	0.949	ug/L	0.009	0	848	16851	0
Cr	52	0.305	ug/L	0.015	5	9289	14024	0
Cr	53	0.507	ug/L	0.019	3	330	1227	2
Fe	54	35.532	ug/L	0.194	0	38293	83977	0
Fe	57	136.765	ug/L	0.674	0	11603	85528	0
Mn	55	131.583	ug/L	0.775	0	1893	3404698	0
[Co	59	0.253	ug/L	0.006	2	108	4916	2
> Ge	72		ug/L			403624	362716	0
Ni	60	1.929	ug/L	0.013	0	58	6649	0
Ni	62	0.715	ug/L	0.030	4	96	450	2
Cu	63	2.322	ug/L	0.007	0	240	17818	0
Cu	65	2.299	ug/L	0.047	2	98	8381	1
Zn	66	0.990	ug/L	0.027	2	302	2677	2
Zn	67	1.618	ug/L	0.059	3	85	744	4
Zn	68	1.218	ug/L	0.094	7	8866	10016	1
As-1	75	1.135	ug/L	0.017	1	-176	2030	2
As	75	1.097	ug/L	0.024	2	9931	11043	0
Se	82	0.333	ug/L	0.030	9	0	69	8
Se	78	0.204	ug/L	0.136	66	10273	9338	0
[Mo	98	0.293	ug/L	0.013	4	174	2247	4
Y	89		ug/L			330409	315975	0
Kr	83		ug/L			77	71	7
> In	115		ug/L			492136	440015	0
Ag	107	0.006	ug/L	0.001	15	155	226	6
Cd	111	0.053	ug/L	0.005	10	283	447	4
Cd	114	0.051	ug/L	0.002	4	22	465	3
Sb	121	0.137	ug/L	0.003	2	337	1915	2
Sb	123	0.139	ug/L	0.010	7	250	1456	6
Ba	135	29.158	ug/L	0.182	0	28	73938	0
[Ba	137	29.327	ug/L	0.268	0	41	124291	1
> Tb	159		ug/L			385959	368624	0
Tl	205	0.005	ug/L	0.000	2	104	252	2
Pb	208	0.039	ug/L	0.002	5	327	2096	4
Bi	209		ug/L			388516	350574	0
Th	232	-0.011	ug/L	0.001	10	1781	1093	5
[U	238	0.046	ug/L	0.003	5	152	3006	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 HSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, January 28, 2011 13:49:59

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	566068	1
[Be	9	25.152	ug/L	0.453	1	2	15366	0
C	13		mg/L			5578	10459	2
Cl	37		mg/L			3088599	3083115	0
> Sc	45		ug/L			338057	347456	0
Na	23	11497.081	ug/L	45.144	0	20206	102613549	0
Mg	24	11262.904	ug/L	22.234	0	11798	69310312	0
Al	27	41.747	ug/L	0.457	1	8584	417758	0
K	39	2953.413	ug/L	7.984	0	634484	41127940	0
Ca	43	43318.692	ug/L	408.807	0	191	1175098	1
V-1	51	27.149	ug/L	0.230	0	3098	448126	0
V	51	27.075	ug/L	0.287	1	848	453892	0
Cr	52	25.829	ug/L	0.167	0	9289	382235	0
Cr	53	25.685	ug/L	0.381	1	330	45036	1
Fe	54	38.287	ug/L	0.608	1	38293	86924	0
Fe	57	139.566	ug/L	1.628	1	11603	86541	0
Mn	55	164.915	ug/L	1.200	0	1893	4242533	0
[Co	59	25.172	ug/L	0.238	0	108	475755	0
> Ge	72		ug/L			403624	359131	0
Ni	60	31.093	ug/L	0.330	1	58	105341	0
Ni	62	29.558	ug/L	0.225	0	96	14972	0
Cu	63	31.108	ug/L	0.124	0	240	233663	0
Cu	65	30.890	ug/L	0.270	0	98	110431	1
Zn	66	85.587	ug/L	0.566	0	302	206141	0
Zn	67	78.025	ug/L	0.369	0	85	31944	0
Zn	68	83.478	ug/L	0.229	0	8866	146912	0
As-1	75	29.440	ug/L	0.051	0	-176	56079	0
As	75	28.620	ug/L	0.122	0	9931	63556	0
Se	82	87.570	ug/L	0.176	0	0	17807	0
Se	78	84.288	ug/L	0.418	0	10273	52871	0
[Mo	98	28.763	ug/L	0.040	0	174	203160	0
Y	89		ug/L			330409	313823	0
Kr	83		ug/L			77	76	4
> In	115		ug/L			492136	436878	0
Ag	107	25.853	ug/L	0.091	0	155	382537	0
Cd	111	26.758	ug/L	0.149	0	283	98379	0
Cd	114	26.980	ug/L	0.116	0	22	232584	0
Sb	121	25.967	ug/L	0.170	0	337	303591	0
Sb	123	25.894	ug/L	0.315	1	250	227620	0
Ba	135	58.858	ug/L	0.338	0	28	148165	1
[Ba	137	59.169	ug/L	0.437	0	41	248932	0
> Tb	159		ug/L			385959	365377	0
Tl	205	25.779	ug/L	0.227	0	104	834808	0
Pb	208	26.133	ug/L	0.142	0	327	1172586	0
Bi	209		ug/L			388516	346932	0
Th	232	24.041	ug/L	0.250	1	1781	1344168	0
[U	238	26.288	ug/L	0.106	0	152	1632214	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF49 O REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, January 28, 2011 13:56:56

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	555844	0
[Be	9	0.007	ug/L	0.004	59	2	6	40
C	13		mg/L			5578	8040	0
Cl	37		mg/L			3088599	2990365	0
> Sc	45		ug/L			338057	371520	0
Na	23	14151.497	ug/L	83.836	0	20206	135048916	1
Mg	24	16853.850	ug/L	159.973	0	11798	110889879	0
Al	27	1.569	ug/L	0.057	3	8584	25867	1
K	39	3129.407	ug/L	23.177	0	634484	46554032	0
Ca	43	47069.909	ug/L	366.357	0	191	1365302	1
V-1	51	0.798	ug/L	0.012	1	3098	17395	0
V	51	0.816	ug/L	0.007	0	848	15540	0
Cr	52	0.084	ug/L	0.015	18	9289	11497	2
Cr	53	0.184	ug/L	0.008	4	330	705	2
Fe	54	1378.657	ug/L	6.320	0	38293	1873561	0
Fe	57	1463.771	ug/L	5.733	0	11603	849526	0
Mn	55	1650.623	ug/L	17.914	1	1893	45383743	0
[Co	59	0.454	ug/L	0.005	1	108	9299	1
> Ge	72		ug/L			403624	354617	0
Ni	60	4.033	ug/L	0.018	0	58	13538	0
Ni	62	2.621	ug/L	0.097	3	96	1388	3
Cu	63	0.464	ug/L	0.005	1	240	3648	0
Cu	65	0.495	ug/L	0.007	1	98	1832	1
Zn	66	0.814	ug/L	0.029	3	302	2198	3
Zn	67	1.370	ug/L	0.057	4	85	627	3
Zn	68	1.088	ug/L	0.103	9	8866	9578	1
As-1	75	5.026	ug/L	0.028	0	-176	9325	0
As	75	4.828	ug/L	0.038	0	9931	17840	0
Se	82	0.861	ug/L	0.068	7	0	173	7
Se	78	0.154	ug/L	0.089	58	10273	9104	0
[Mo	98	1.360	ug/L	0.018	1	174	9633	1
Y	89		ug/L			330409	306415	0
Kr	83		ug/L			77	70	6
> In	115		ug/L			492136	425255	0
Ag	107	0.007	ug/L	0.004	53	155	238	22
Cd	111	0.019	ug/L	0.007	38	283	311	7
Cd	114	0.008	ug/L	0.002	25	22	87	20
Sb	121	0.048	ug/L	0.006	12	337	842	7
Sb	123	0.046	ug/L	0.007	15	250	610	9
Ba	135	30.368	ug/L	0.134	0	28	74423	0
[Ba	137	30.490	ug/L	0.301	0	41	124884	1
> Tb	159		ug/L			385959	357471	0
Tl	205	0.004	ug/L	0.002	44	104	233	25
Pb	208	0.014	ug/L	0.003	21	327	935	14
Bi	209		ug/L			388516	338409	0
Th	232	0.049	ug/L	0.018	36	1781	4313	22
[U	238	0.464	ug/L	0.005	1	152	28338	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF26 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, January 28, 2011 14:03:57

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	588203	1
[Be	9	0.004	ug/L	0.002	47	2	5	25
C	13		mg/L			5578	7356	2
Cl	37		mg/L			3088599	3016488	0
> Sc	45		ug/L			338057	380409	0
Na	23	8859.917	ug/L	111.255	1	20206	86578649	1
Mg	24	8876.906	ug/L	64.774	0	11798	59809703	0
Al	27	9.187	ug/L	0.120	1	8584	108190	1
K	39	1093.483	ug/L	14.664	1	634484	17120579	0
Ca	43	16570.004	ug/L	66.133	0	191	492243	0
V-1	51	0.506	ug/L	0.010	1	3098	12558	1
V	51	0.579	ug/L	0.008	1	848	11560	1
Cr	52	0.296	ug/L	0.024	8	9289	15129	2
Cr	53	0.535	ug/L	0.021	3	330	1390	2
Fe	54	29.984	ug/L	0.856	2	38293	83874	1
Fe	57	64.484	ug/L	1.800	2	11603	50802	2
Mn	55	1.867	ug/L	0.127	6	1893	54686	6
Co	59	0.055	ug/L	0.001	2	108	1261	2
> Ge	72		ug/L			403624	364063	1
Ni	60	5.422	ug/L	0.046	0	58	18663	0
Ni	62	4.935	ug/L	0.108	2	96	2606	1
Cu	63	0.455	ug/L	0.011	2	240	3682	3
Cu	65	0.512	ug/L	0.025	4	98	1943	3
Zn	66	2.142	ug/L	0.030	1	302	5494	0
Zn	67	1.918	ug/L	0.048	2	85	871	1
Zn	68	1.974	ug/L	0.036	1	8866	11329	1
As-1	75	0.163	ug/L	0.006	3	-176	155	8
As	75	0.003	ug/L	0.055	2072	9931	8962	0
Se	82	0.145	ug/L	0.021	14	0	30	13
Se	78	-0.440	ug/L	0.229	52	10273	9033	0
[Mo	98	0.052	ug/L	0.003	4	174	527	3
Y	89		ug/L			330409	310779	1
Kr	83		ug/L			77	70	3
> In	115		ug/L			492136	442272	1
Ag	107	-0.004	ug/L	0.001	27	155	87	14
Cd	111	0.031	ug/L	0.008	24	283	370	7
Cd	114	0.034	ug/L	0.003	7	22	318	8
Sb	121	-0.005	ug/L	0.001	26	337	246	5
Sb	123	-0.003	ug/L	0.002	92	250	201	9
Ba	135	7.242	ug/L	0.158	2	28	18476	2
[Ba	137	7.207	ug/L	0.059	0	41	30726	0
> Tb	159		ug/L			385959	382732	0
Tl	205	-0.001	ug/L	0.000	14	104	73	5
Pb	208	0.020	ug/L	0.001	6	327	1251	5
Bi	209		ug/L			388516	353446	0
Th	232	-0.010	ug/L	0.002	21	1781	1191	10
[U	238	0.008	ug/L	0.000	4	152	657	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SF50 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, January 28, 2011 14:10:55

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	570627	2
[Be	9	0.004	ug/L	0.004	112	2	4	56
C	13		mg/L			5578	10871	2
Cl	37		mg/L			3088599	2927878	0
> Sc	45		ug/L			338057	368348	0
Na	23	7029.476	ug/L	72.107	1	20206	66520020	1
Mg	24	8808.921	ug/L	66.560	0	11798	57470346	1
Al	27	64.877	ug/L	0.930	1	8584	683077	1
K	39	1293.111	ug/L	13.479	1	634484	19478049	1
Ca	43	28750.455	ug/L	601.904	2	191	826955	2
V-1	51	0.694	ug/L	0.008	1	3098	15431	1
V	51	0.702	ug/L	0.005	0	848	13384	1
Cr	52	0.650	ug/L	0.007	1	9289	20070	1
Cr	53	0.679	ug/L	0.020	2	330	1613	3
Fe	54	137.802	ug/L	1.078	0	38293	223229	1
Fe	57	206.991	ug/L	1.086	0	11603	129967	1
Mn	55	2208.919	ug/L	16.118	0	1893	60220832	1
Co	59	1.117	ug/L	0.002	0	108	22497	0
> Ge	72		ug/L			403624	352444	0
Ni	60	6.356	ug/L	0.057	0	58	21174	0
Ni	62	5.442	ug/L	0.057	1	96	2773	1
Cu	63	5.204	ug/L	0.017	0	240	38533	0
Cu	65	5.244	ug/L	0.010	0	98	18470	0
Zn	66	4.054	ug/L	0.010	0	302	9834	0
Zn	67	3.791	ug/L	0.017	0	85	1594	0
Zn	68	4.003	ug/L	0.061	1	8866	14285	1
As-1	75	0.599	ug/L	0.015	2	-176	967	2
As	75	0.585	ug/L	0.033	5	9931	9770	0
Se	82	0.236	ug/L	0.020	8	0	47	7
Se	78	0.185	ug/L	0.116	62	10273	9064	0
Mo	98	0.185	ug/L	0.006	2	174	1435	2
Y	89		ug/L			330409	318873	1
Kr	83		ug/L			77	67	2
> In	115		ug/L			492136	428338	1
Ag	107	0.017	ug/L	0.002	9	155	386	6
Cd	111	0.079	ug/L	0.001	0	283	529	1
Cd	114	0.055	ug/L	0.004	6	22	486	4
Sb	121	0.066	ug/L	0.002	3	337	1045	2
Sb	123	0.066	ug/L	0.002	2	250	786	2
Ba	135	7.684	ug/L	0.026	0	28	18985	1
Ba	137	7.659	ug/L	0.091	1	41	31622	0
> Tb	159		ug/L			385959	364732	0
Tl	205	0.005	ug/L	0.000	7	104	252	4
Pb	208	0.084	ug/L	0.003	3	327	4088	3
Bi	209		ug/L			388516	342094	1
Th	232	-0.001	ug/L	0.002	179	1781	1616	7
U	238	0.052	ug/L	0.001	2	152	3338	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 14:17:51

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	579664	1
[Be	9	46.139	ug/L	0.181	0	2	28867	1
C	13		mg/L			5578	4993	2
Cl	37		mg/L			3088599	3034202	0
> Sc	45		ug/L			338057	317104	0
Na	23	4763.862	ug/L	29.015	0	20206	38814364	0
Mg	24	4690.916	ug/L	91.802	1	11798	26351139	1
Al	27	4642.882	ug/L	21.738	0	8584	41516010	0
K	39	4755.962	ug/L	51.144	1	634484	60078610	0
Ca	43	4951.096	ug/L	60.577	1	191	122730	1
V-1	51	50.569	ug/L	0.563	1	3098	759293	0
V	51	50.528	ug/L	0.399	0	848	772396	0
Cr	52	50.666	ug/L	0.528	1	9289	675906	0
Cr	53	50.534	ug/L	0.529	1	330	80567	0
Fe	54	5059.325	ug/L	37.017	0	38293	5772476	0
Fe	57	5057.280	ug/L	11.264	0	11603	2478516	0
Mn	55	49.677	ug/L	0.235	0	1893	1167607	0
Co	59	49.755	ug/L	0.427	0	108	858133	0
> Ge	72		ug/L			403624	372535	0
Ni	60	51.949	ug/L	0.234	0	58	182538	0
Ni	62	51.458	ug/L	0.273	0	96	26972	0
Cu	63	51.374	ug/L	0.297	0	240	400143	0
Cu	65	50.942	ug/L	0.307	0	98	188852	0
Zn	66	51.874	ug/L	0.278	0	302	129715	0
Zn	67	52.083	ug/L	0.241	0	85	22145	0
Zn	68	50.844	ug/L	0.262	0	8866	96018	0
As-1	75	49.883	ug/L	0.151	0	-176	98682	0
As	75	49.452	ug/L	0.049	0	9931	107242	0
Se	82	52.319	ug/L	0.424	0	0	11036	0
Se	78	50.714	ug/L	0.041	0	10273	36775	0
Mo	98	50.782	ug/L	0.492	0	174	371945	0
Y	89		ug/L			330409	307735	0
Kr	83		ug/L			77	84	5
> In	115		ug/L			492136	444371	0
Ag	107	49.934	ug/L	0.340	0	155	751414	0
Cd	111	50.152	ug/L	0.365	0	283	187329	0
Cd	114	49.946	ug/L	0.087	0	22	437932	0
Sb	121	49.127	ug/L	0.232	0	337	583965	0
Sb	123	49.254	ug/L	0.105	0	250	440220	0
Ba	135	49.376	ug/L	0.391	0	28	126428	0
Ba	137	49.491	ug/L	0.493	0	41	211796	0
> Tb	159		ug/L			385959	374770	0
Tl	205	45.594	ug/L	0.381	0	104	1514376	0
Pb	208	46.564	ug/L	0.069	0	327	2142853	0
Bi	209		ug/L			388516	359147	0
Th	232	47.888	ug/L	0.745	1	1781	2744642	1
U	238	47.989	ug/L	0.404	0	152	3056105	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, January 28, 2011 14:25:25

Number of Replicates: 3

Method File: C:\Elandata\Method\2008LoNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\012811.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			541893	573507	0
[Be	9	0.005	ug/L	0.006	112	2	5	66
C	13		mg/L			5578	5032	1
Cl	37		mg/L			3088599	3097273	0
> Sc	45		ug/L			338057	319489	0
Na	23	0.395	ug/L	0.132	33	20206	22342	5
Mg	24	-1.117	ug/L	0.170	15	11798	4833	20
Al	27	0.435	ug/L	0.130	29	8584	12030	10
K	39	3.086	ug/L	0.207	6	634484	638516	0
Ca	43	-2.670	ug/L	0.494	18	191	114	11
V-1	51	0.006	ug/L	0.012	196	3098	3018	6
V	51	0.001	ug/L	0.002	292	848	810	3
Cr	52	0.025	ug/L	0.017	68	9289	9105	2
Cr	53	0.007	ug/L	0.019	272	330	322	8
Fe	54	-0.161	ug/L	0.410	254	38293	36006	1
Fe	57	-0.689	ug/L	0.359	52	11603	10627	1
Mn	55	0.005	ug/L	0.009	186	1893	1902	11
Co	59	0.001	ug/L	0.002	135	108	127	26
> Ge	72		ug/L			403624	378795	0
Ni	60	0.003	ug/L	0.001	35	58	65	5
Ni	62	0.009	ug/L	0.019	213	96	95	10
Cu	63	0.005	ug/L	0.002	44	240	267	7
Cu	65	0.008	ug/L	0.005	63	98	123	16
Zn	66	0.006	ug/L	0.000	0	302	299	0
Zn	67	-0.003	ug/L	0.023	686	85	79	12
Zn	68	-0.595	ug/L	0.033	5	8866	7276	1
As-1	75	0.013	ug/L	0.017	125	-176	-139	24
As	75	-0.063	ug/L	0.029	46	9931	9192	0
Se	82	0.052	ug/L	0.037	72	0	11	67
Se	78	-0.250	ug/L	0.081	32	10273	9504	0
Mo	98	0.004	ug/L	0.004	115	174	191	16
Y	89		ug/L			330409	316706	0
Kr	83		ug/L			77	68	6
> In	115		ug/L			492136	456792	1
Ag	107	0.007	ug/L	0.002	27	155	255	13
Cd	111	0.003	ug/L	0.003	78	283	275	2
Cd	114	0.002	ug/L	0.001	64	22	38	30
Sb	121	0.004	ug/L	0.004	102	337	356	13
Sb	123	0.003	ug/L	0.003	83	250	264	11
Ba	135	0.005	ug/L	0.002	38	28	39	13
Ba	137	0.002	ug/L	0.002	82	41	48	17
> Tb	159		ug/L			385959	375078	0
Tl	205	0.004	ug/L	0.002	44	104	240	26
Pb	208	0.004	ug/L	0.002	38	327	508	15
Bi	209		ug/L			388516	370584	0
Th	232	0.030	ug/L	0.003	10	1781	3456	5
U	238	0.004	ug/L	0.001	21	152	392	14

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: SF26, SF50, SF76

pH EPA 150.1
Data Analyst: Ursula Walter
Comments:
Print Date: 1/20/11 10:57

No: 7499
Analyzed by: UW
Date Analyzed: 1/19/11
Time Analyzed: 13:40

✓ JWC 1/20/11

ARI ID	Result	Q	RL	SPK	UAD
1. ICVL	7.01 ✓		0.01	7.00	0.01
2. SF19A	8.27 ✓		0.01		
3. SF19A DUP	8.26 ✓		0.01		0.01
4. SF19B	7.42 ✓		0.01		
5. CCVL	7.01 ✓		0.01	7.00	0.01
6. CCVL	6.97 ✓		0.01	7.00	0.03
7. SF26A	6.18 ✓		0.01		
8. SF26A DUP	6.18 ✓		0.01		0.00
9. SF26B	6.72 ✓		0.01		
10. SF26C	6.77 ✓		0.01		
11. SF26D	6.48 ✓		0.01		
12. CCVL	7.01 ✓		0.01	7.00	0.01



Analytical Resources, Incorporated
Analytical Chemists and Consultants

pH Logbook

Analyst: JP Date: 1-19-11
Meter ID: Accumet AR60 Time: 13:40

Calibration

Date:	1-19-11	Buffer	Source	Lot #	pH	Temp.
Time:	13:40	2.00	Ricca	1006441	1.98	20.8
Analyst:	JP	4.00	Fisher	102493	4.00	20.8
		7.00	Ricca	1007382	7.02	20.7
		10.00	Fisher	101481	10.03	20.9
		12.00	Ricca	1008411	11.98	20.8
		Verification	Fisher	101625	6.98	20.8
Electrolyte Check (analysts initials):						

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	7.01	7.00				20.8
SF19 A2	8.27	8.26				19.0
↓ B2	7.64	7.48	7.42	7.42		18.6
SF21 A2	7.62	7.67			BOD	21.4
SF20 C2	6.58	6.57			↓	21.1
z D1	6.20	6.20				21.2
CCV	7.01	7.01				21.6
CCV	6.97	6.97				21.3
SF26 A1	6.18	6.18				21.5
T B1	6.72	6.72				21.4
↓ C1	6.77	6.78				21.3
↓ CCV D1	6.48	6.48				21.3
CCV	7.01	7.01				21.3
CCV						

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 1/21/2011
 ANALYST: CDE 14:20

Analytical Balance: 1123230597

Drying Ovens: 12
 Muffle Furnace: N/A

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	mg/L TSS						
				1	2	3	4			1	2	3	4			
LCS source: Cellulose, MP Biomedicals Lot# 6399J TSS (mg/l) calculated as: Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000 TSS = [(Final Dry Wt)/ ml Sample] * 1000 if dry wt < 1mg, TSS = <1mg / mL sample * 1000 with "<" flag													Loss on ignition (LOI) = TVSS (mg/L) calculated as: LOI (mg) = Dry wt(mg) - (min ash wt - tare wt) * 1000 TVSS (mg/L) = LOI / mL sample * 1000 if LOI < 1mg, TVSS = <1mg / mL sample * 1000 with "<" flag			
BLANK		1000	0.1095	0.1095	0.1096	STOP	0.0	<1								
LCS # 568-6		1000	0.1100	0.1591	0.1592	STOP	49.1	49.1	98.2%							
SF20 C7		915	0.1115	0.1117	0.1117	STOP	0.2	<1.1								
SF21 A4		930	0.1112	0.1126	0.1126	STOP	1.4	1.5								
SF23 A1		860	0.1114	0.1188	0.1188	STOP	7.4	8.6								
SF23 A2 dup		910	0.1105	0.1182	0.1182	STOP	7.7	8.5								
RPD = 1.2%									RPD = NA							
SF23 B1		935	0.1118	0.1216	0.1215	STOP	9.7	10.4								
SF23 C1		920	0.1115	0.1179	0.1178	STOP	6.3	6.8								
SF23 D1		960	0.1132	0.1136	0.1135	STOP	0.3	<1.1								
SF23 E1		925	0.1101	0.1105	0.1105	STOP	0.4	<1.1								
SF23 F1		930	0.1123	0.1166	0.1165	STOP	4.2	4.5								
SF26 A8		880	0.1114	0.1118	0.1118	STOP	0.4	<1.1								
SF26 B8		940	0.1127	0.1131	0.1131	STOP	0.4	<1.1								
SF26 C8		900	0.1113	0.1160	0.1159	STOP	4.6	5.1								
SF26 D20		935	0.1122	0.1144	0.1143	STOP	2.1	2.2								
SF27 A2		500	0.1130	0.1151	0.1150	STOP	2.0	4.0								
SF27 A2 dup		500	0.1088	0.1112	0.1112	STOP	2.4	4.8								
RPD = 18.2%									RPD = NA							
SF27 B2		1000	0.1123	0.1138	0.1138	STOP	1.5	1.5								

w
1-21-11

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 1/21/2011
ANALYST: CDE 14:20

Analytical Balance: 1123230597

Drying Ovens: 12
Muffle Furnace: N/A

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				grams to 1000	DryWT (mg)	mL = TSS (mg/L)	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)
				1	2	3	4				1	2	3	4		
<p>LCS source: Cellulose, MP Biomedicals Lot# 6399J</p> <p>TSS (mg/l) calculated as: Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000 TSS = [(Final Dry Wt)/ml Sample] * 1000 if dry wt < 1mg, TSS = <1mg / mL sample * 1000 with "<" flag</p>																
<p>Loss on ignition (LOI) = TVSS (mg/L) calculated as: LOI (mg) = Dry wt(mg) - ((min ash wt - tare wt) * 1000) TVSS (mg/L) = LOI / mL sample * 1000 if LOI < 1mg, TVSS = <1mg / mL sample * 1000 with "<" flag</p>																
<p>50 mg/L TSS</p>																
SF37 A4		910	0.1106	0.1117	0.1116	STOP	4	1.0	1.1							
SF37 B4		900	0.1150	0.1214	0.1215	STOP		6.4	7.1							
SF38 A4		950	0.1131	0.1131	0.1131	STOP		0.0	< 1.1							
SF38 B4		935	0.1118	0.1134	0.1133	STOP		1.5	1.6							
SF39 A1		940	0.1110	0.1113	0.1113	STOP		0.3	< 1.1							

make no entries to shaded cells they are calculated !!

SF25 : 01661



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams)		Dry Wt mg	TSS	Ash Weight 550°C		LOI - mg	TVSS mg/L
				1	2			1	2		
BLANK	P8926	100	0.1095	0.1095	0.1096						
LCS#568-6	P8927	↓	0.1100	0.1591	0.1592						
SF20 C7	P8922	915	0.1115	0.1117	0.1117						
SF21 A4	P8929	930	0.1112	0.1126	0.1126						
SF23 A1	P8930	860	0.1114	0.1188	0.1188						
A2 AP	P8931	910	0.1118	0.1182	0.1182						
B1	P8932	935	0.1118	0.1216	0.1215						
C1	P8933	920	0.1115	0.1179	0.1178						
D1	P8934	950	0.1132	0.1136	0.1135						
E1	P8935	925	0.1101	0.1105	0.1105						
F1	P8936	930	0.1123	0.1166	0.1165						
SF26 A8	P8937	880	0.1114	0.1118	0.1118						
B8	P8939	940	0.1127	0.1131	0.1131						
C8	P8939	900	0.1113	0.1160	0.1159						
D20	P8940	935	0.1122	0.1144	0.1143						
SF27 A2	P8941	500	0.1130	0.1151	0.1150						
A2 AP	P8942	↓	0.1088	0.1112	0.1112						
B2	P8943	1000	0.1123	0.1138	0.1138						
SF37 A4	P8944	910	0.1106	0.1117	0.1116						
B4	P8945	900	0.1150	0.1214	0.1215						
SF38 A4	P8946	950	0.1131	0.1131	0.1131						
6054F	P8947	935	0.1118	0.1134	0.1133						
SF39 A1	P8948	940	0.1110	0.1113	0.1113						

Loss on Ignition (LOI) = TVSS (mg / L) is calculated as:
 LOI (mg / L) = Dry Weight (mg) - ((Minimum Ash Weight - Tare Weight) * 1000)
 TVSS (mg / L) = LOI / mL sample * 1,000
 If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag

TSS (mg/L) calculated as:
 Final Dry Weight (mg) = (Min Dry Weight - Tare Weight) * 1000
 TSS = (Final Dry Weight) / (mL Sample) * 1000
 If dry wt < 1 mg / mL sample * 1000 use "<" flag

LCS (Cellulose from MP Biochemicals) Lott # 6399J
 CV-02 CV-02 CV-02
 Date & Time: 1-21-11 14:20
 CV-02 CV-02 CV-02
 Cal Weight (10.0000g): 10.0006 10.0000 10.0000

Analyst: LAC
 Date/Time: 1-21-11 14:20
 Muffle Furnance: N/A
 Balance: 1123230597

Revision 002
12/28/09

12/28/09 10:00 AM

12/28/09
 P8930
 P8944
 P8948

pH EPA 150.1
Data Analyst: Ursula Walter
Comments:
Print Date: 1/21/11 18:01

No: 8217
Analyzed by: UW
Date Analyzed: 1/20/11
Time Analyzed: 15:10

gyl/24/11

ARI ID	Result	Q	RL	SPK	UAD
1. ICVL	6.98 ✓		0.01	7.00	0.02
2. SF37A	7.23 ✓		0.01		
3. SF37A DUP	7.24 ✓		0.01		0.01
4. SF37B	8.07 ✓		0.01		
5. SF38A	8.11 ✓		0.01		
6. SF38B	6.58 ✓		0.01		
7. CCVL	7.01 ✓		0.01	7.00	0.01
8. SF50A	5.98 ✓		0.01		
9. SF50A DUP	5.99 ✓		0.01		0.01
10. SF50B	5.92 ✓		0.01		
11. SF50C	5.94 ✓		0.01		
12. SF50D	6.21 ✓		0.01		
13. SF50E	7.62 ✓		0.01		
14. SF50F	6.35 ✓		0.01		
15. CCVL	7.04 ✓		0.01	7.00	0.04



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Analytical Chemists and Consultants

pH Logbook

Analyst: SP Date: 1-20-11

Meter ID: Accumet AR60 Time: 12:15

Calibration

Date:	Buffer	Source	Lot #	pH	Temp.
Time:	2.00	Ricca	1006441	1.99	19.8
Analyst:	4.00	Fisher	102493	3.99	19.7
	7.00	Ricca	1007382	7.02	19.6
	10.00	Fisher	101681	10.05	19.7
	12.00	Ricca	1008411	12.02	19.6
	Verification	Fisher	101625	7.03	19.6
Electrolyte Check (analysts initials):					

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	6.98	6.98				20.7
SF37A2	7.23	7.24				18.3
Z B2	8.07	8.07				18.6
SF38A2	8.11	8.11				18.0
V B2	6.58	6.58				17.9
CCV	7.01	7.01				21.2
SF47A0	5.26	5.26	→ 7.01	7.02	BOD	22.6
↓ B0	5.22	5.22	→ 6.97	6.98	BOD	22.1
SF50 CCV A1	6.97	6.97 5.98	5.99			21.3
↓ B1	5.92	5.92				20.9
C1	5.94	5.93				20.8
CCV D1	6.21	6.21				21.5
↓ E1	7.62	7.62				21.3
F1	6.35	6.35				21.3
CCV	7.04	7.03				21.8
CCV						

15.00
w

SF50

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 1/26/2011
 ANALYST: CDE / KE 13:49

Analytical Balance: 1123230597

Drying Ovens: 12
 Muffle Furnace: N / A

TSS (mg/l) calculated as:
 Final dry wt (mg) = (minimum Dry Wt - Tare Wt) * 1000
 TSS = [(Final Dry Wt) ml Sample] * 1000
 if dry wt < 1mg, TSS = <1mg / mL sample * 1000
 with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
 LOI (mg) = Dry wt(mg) - ((min ash wt - tare wt) * 1000)
 TVSS (mg/L) = LOI / mL sample * 1000
 if LOI < 1mg, TVSS = <1mg / mL sample * 1000
 with "<" flag

LCS source: Cellulose, MP Biomedicals Lot# 6399J

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)	
				1	2	3	4			1	2	3	4			
			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02			
Cal Weight ID				1/26/11 15:35 CDE/126/11 19:10 CDE												
Date & Time				10.0000	10.0000											
Cal Wt (g)				record weights to 4 places	Cal OK!	Cal OK!										
BLANK		1000	0.1099	0.1100	0.1100	STOP	0.1	< 1								
LCS # 569 - 2		1000	0.1115	0.1610	0.1609	STOP	49.4	49.4	98.8%							
SF50 A2		925	0.1091	0.1101	0.1102	STOP	1.0	1.1								
SF50 A3 dup		920	0.1149	0.1176	0.1175	STOP	2.6	2.8								

RPD = 87.2%

SF50 B2		930	0.1081	0.1111	0.1111	STOP	3.0	3.2								
SF50 C2		965	0.1108	0.1123	0.1124	STOP	1.5	1.6								
SF50 D2		925	0.1134	0.1160	0.1161	STOP	2.6	2.8								
SF50 E2		925	0.1140	0.1223	0.1223	STOP	8.3	9.0								
SF50 F2		910	0.1124	0.1127	0.1127	STOP	0.3	< 1.1								
SF58 A4		910	0.1141	0.1146	0.1147	STOP	0.5	< 1.1								
SF68 A4		450	0.1163	0.1280	0.1280	STOP	11.7	26.0								
SF68 B4		150	0.1142	0.1387	0.1386	STOP	24.4	162.7								
SF68 B4 dup		150	0.1086	0.1335	0.1335	STOP	24.9	166.0								

RPD = 2.0%

SF68 C7		825	0.1110	0.1199	0.1199	STOP	8.9	10.8								
SF76 A8		550	0.1128	0.1395	0.1396	STOP	26.7	48.5								
SF76 B8		950	0.1095	0.1120	0.1121	STOP	2.5	2.6								
SF76 C8		555	0.1085	0.1264	0.1265	STOP	17.9	32.3								
SF76 D8		920	0.1121	0.1125	0.1126	STOP	0.4	< 1.1								
SF76 E8		955	0.1107	0.1107	0.1107	STOP	0.0	< 1								

RPD = NA

63
 1-27-11



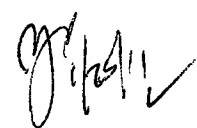
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TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Analyst: <i>AVL</i>	Date/Time: <i>1-26-11 13:45</i>	Oven #:	Muffle Furnance: <i>N/A</i>	Balance: <i>1123230597</i>	Loss on Ignition (LOI) = TVSS (mg / L) is calculated as: LOI (mg / L) = Dry Weight (mg) - (Minimum Ash Weight - Tare Weight) * 1000 TVSS (mg / L) = LOI / mL sample * 1,000 If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag				
					CV-02	CV-02			
LCS (Cellulose from MP Biochemicals) Lot # <i>6399J</i>		0.0500 Gram to 1000 mL = 50 mg / L TSS							
Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams)	Dry Wt mg	TSS	Ash Weight 550°C	LOI - mg	TVSS mg/L
BLANK	P6497	1000	0.1099	0.1100	0.1100				
<i>LCS#569-2</i>	<i>P6498</i>	<i>✓</i>	0.1115	0.1610	0.1609				
SF50 A ²	P6499	925	0.1091	0.1101	0.1102				
<i>A³</i>	<i>P6500</i>	<i>920</i>	<i>0.1145</i>	<i>0.1176</i>	<i>0.1175</i>				
<i>B²</i>	<i>P6501</i>	<i>930</i>	<i>0.1081</i>	<i>0.1111</i>	<i>0.1111</i>				
<i>C²</i>	<i>P6502</i>	<i>965</i>	<i>0.1108</i>	<i>0.1123</i>	<i>0.1124</i>				
<i>D²</i>	<i>P6503</i>	<i>925</i>	<i>0.1134</i>	<i>0.1160</i>	<i>0.1161</i>				
<i>E²</i>	<i>P6504</i>	<i>925</i>	<i>0.1140</i>	<i>0.1223</i>	<i>0.1223</i>				
<i>F²</i>	<i>P6505</i>	<i>910</i>	<i>0.1124</i>	<i>0.1127</i>	<i>0.1127</i>				
SF58 A ⁴	P6506	910	0.1141	0.1146	0.1149				
SF68 A ⁴	P6507	450	0.1163	0.1280	0.1290				
<i>B⁶</i>	<i>P6508</i>	<i>150</i>	<i>0.1142</i>	<i>0.1387</i>	<i>0.1386</i>				
<i>B⁶</i>	<i>P6509</i>	<i>✓</i>	<i>0.1096</i>	<i>0.1335</i>	<i>0.1335</i>				
<i>C⁷</i>	<i>P6510</i>	<i>925</i>	<i>0.1110</i>	<i>0.1199</i>	<i>0.1199</i>				
SF76 A ⁸	P6511	550	0.1128	0.1395	0.1396				
<i>B⁸</i>	<i>P6512</i>	<i>950</i>	<i>0.1095</i>	<i>0.1120</i>	<i>0.1121</i>				
<i>C³</i>	<i>P6513</i>	<i>555</i>	<i>0.1085</i>	<i>0.1264</i>	<i>0.1265</i>				
<i>D⁸</i>	<i>P6514</i>	<i>920</i>	<i>0.1121</i>	<i>0.1125</i>	<i>0.1126</i>				
<i>E⁸</i>	<i>P6515</i>	<i>955</i>	<i>0.1107</i>	<i>0.1107</i>	<i>0.1167</i>				
<i>F³</i>	<i>P6516</i>	<i>940</i>	<i>0.1098</i>	<i>0.1103</i>	<i>0.1102</i>				
<i>G³</i>	<i>P6517</i>	<i>930</i>	<i>0.1076</i>	<i>0.1125</i>	<i>0.1123</i>				

pH EPA 150.1
Data Analyst: Ursula Walter
Comments:
Print Date: 1/24/11 18:13

No: 8679
Analyzed by: UW
Date Analyzed: 1/21/11
Time Analyzed: 15:15



ARI ID	Result	Q	RL	SPK	UAD
1. ICVL	7.00	✓	0.01	7.00	0.00
2. CCVL	7.00	✓	0.01	7.00	0.00
3. SF68A	7.65	✓	0.01		
4. SF68A DUP	7.66	✓	0.01		0.01
5. SF68B	7.48	✓	0.01		
6. SF68C	7.24	✓	0.01		
7. CCVL	7.02	✓	0.01	7.00	0.02
8. SF76A	7.71	✓	0.01		
9. SF76A DUP	7.70	✓	0.01		0.01
10. SF76B	6.38	✓	0.01		
11. SF76C	7.01	✓	0.01		
12. SF76D	6.35	✓	0.01		
13. SF76E	6.20	✓	0.01		
14. SF76F	6.01	✓	0.01		
15. SF76G	6.95	✓	0.01		
16. SF76H	6.99	✓	0.01		
17. CCVL	7.04	✓	0.01	7.00	0.04
18. SF78A	6.83	✓	0.01		
19. SF78A DUP	6.86	✓	0.01		0.03
20. SF78B	7.24	✓	0.01		
21. CCVL	7.05	✓	0.01	7.00	0.05



pH Logbook

Analyst: CDC Date: 1-21-11

Meter ID: Accumet AR60 Time: 12:15

Calibration

Date:	Buffer	Source	Lot #	pH	Temp.
Time:	2.00	Ricca	1006441	2.00	21.4
Analyst:	4.00	Fisher	102493	4.00	21.4
	7.00	Ricca	1007382	7.02	21.3
	10.00	Fisher	101681	10.04	21.4
	12.00	Ricca	1008411	11.97	21.3
	Verification	Fisher	101625	7.01	21.5
Electrolyte Check (analysts initials):					

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	7.00	7.00				21.4
SF58 A3	7.17	7.17			BOD	25.8
SF63 M	8.30	8.30			BOD	23.8
B1	8.29	8.29			BOD	24.2
CCV	7.00	7.00				21.8
CCV	7.01	7.03				22.2
SF61 A2						
B2						
C2						
D2						
SF68 A5						
CCV-B7						
C4						
CCV	7.00	7.00				22.1
SF68 A5	7.65	7.66				18.1
T B7	7.48	7.48				18.6
V C4	7.24	7.24				18.4
CCV	7.02	7.02				21.7
SF76 A1	7.71	7.70				22.6
B1	6.38	6.38				22.8
C1	7.01	7.01				22.5
D1	6.44	6.37	6.34	6.35		22.9
CCV E1	6.20	6.20				23.4

or
12:15

pH
Corrected

Continued from previous page.



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pH Logbook

Analyst: _____ Date: _____

Meter ID: Accumet AR60 Time: _____

Calibration

Date:	Buffer	Source	Lot #	pH	Temp.
Time:	2.00				
Analyst:	4.00				
	7.00				
	10.00				
	12.00				
	Verification				
Electrolyte Check (analysts initials):					

Sample pH

Sample ID	1	2	3	4	5	Temperature
DF96 ^{10V} F'	6.01	5.99				23.8
Gi	6.95	6.99				24.4
H'	6.99	7.01				24.9
CCV	7.04	7.04				22.2
SF78A3	6.83	6.86				21.8
↓ B ³	7.24	7.22				21.7
CCV	7.05	7.03				22.0
CCV						
CCV						

18:45
1-21-11

W
1-27-11

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 1/26/2011
ANALYST: CDE / KE 13:49

Instrumentation Drying Ovens: 12 Analytical Balance: 1123230597
Muffle Furnace: N/A

TSS (mg/l) calculated as:
Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000
TSS = [(Final Dry Wt)/ml Sample] * 1000
if dry wt < 1mg, TSS = <1mg / mL sample * 1000 with "<" flag

Loss on ignition (LOI) = TVSS (mg/L) calculated as:
LOI (mg) = Dry wt(mg) -(min ash wt - tare wt) * 1000
TVSS (mg/L) = LOI / mL sample * 1000
if LOI <1mg, TVSS = <1mg / mL sample * 1000 with "<" flag

LCS source: Cellulose, MP Biomedicals Lot# 6399.J

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)
				1	2	3	4			1	2	3	4		
			CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
			1/26/11 15:35 CDE/126/11 19:10 CDE												
			10.0000	Cal OK!	10.0000	Cal OK!									
BLANK		1000	0.1099	0.1100	0.1100	STOP	0.1	<1							
LCS # 569 - 2		1000	0.1115	0.1610	0.1609	STOP	49.4	49.4	98.8%						
SF50 A2		925	0.1091	0.1101	0.1102	STOP	1.0	1.1							
SF50 A3 dup		920	0.1149	0.1176	0.1175	STOP	2.6	2.8							
RPD = 87.2%															

SF50 B2		930	0.1081	0.1111	0.1111	STOP	3.0	3.2							
SF50 C2		965	0.1108	0.1123	0.1124	STOP	1.5	1.6							
SF50 D2		925	0.1134	0.1160	0.1161	STOP	2.6	2.8							
SF50 E2		925	0.1140	0.1223	0.1223	STOP	8.3	9.0							
SF50 F2		910	0.1124	0.1127	0.1127	STOP	0.3	<1.1							
SF58 A4		910	0.1141	0.1146	0.1147	STOP	0.5	<1.1							
SF68 A4		450	0.1163	0.1280	0.1280	STOP	11.7	26.0							
SF68 B4		150	0.1142	0.1387	0.1386	STOP	24.4	162.7							
SF68 B4 dup		150	0.1086	0.1335	0.1335	STOP	24.9	166.0							
RPD = 2.0%															

SF68 C7		825	0.1110	0.1199	0.1199	STOP	8.9	10.8							
SF76 A8		550	0.1128	0.1395	0.1396	STOP	26.7	48.5							
SF76 B8		950	0.1095	0.1120	0.1121	STOP	2.5	2.6							
SF76 C8		555	0.1085	0.1264	0.1265	STOP	17.9	32.3							
SF76 D8		920	0.1121	0.1125	0.1126	STOP	0.4	<1.1							
SF76 E8		955	0.1107	0.1107	0.1107	STOP	0.0	<1							
RPD = NA															

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)

DATE: 1/26/2011
 ANALYST: CDE / KE 13:49

Instrumentation Drying Ovens: 12 Analytical Balance: 1123230597
 Muffle Furnace: N/A

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	mL = TSS (mg/L)	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)
				1	2	3	4			1	2	3	4		
SF76 F8		940	0.1098	0.1103	0.1102	STOP	0.4	< 1.1							
SF76 G8		930	0.1076	0.1125	0.1123	STOP	4.7	5.1							
SF76 HB		920	0.1141	0.1238	0.1239	STOP	9.7	10.5							
SF78 A4		480	0.1167	0.1295	0.1296	STOP	12.8	26.7							
SF78 A4 dup		480	0.1131	0.1258	0.1257	STOP	12.6	26.3							
LCS source: Cellulose, MP Biomedicals Lot# 6399J									50 mg/L TSS						
		TSS (mg/l) calculated as:		0.05 grams to		1000		mL =		5.3		RPD =		1.5%	
		Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000		DRY WT 104C (grams)		DryWT (mg)		TSS (mg/L)		5.6		RPD =		NA	
		TSS = [(Final Dry Wt)/ ml Sample] * 1000		1		4				5.3		RPD =		NA	
		if dry wt < 1mg, TSS = <1mg / mL sample * 1000 with "<" flag		2		3				5.3		RPD =		NA	
		Loss on ignition (LOI) = TVSS (mg/L) calculated as:		3		4				5.3		RPD =		NA	
		LOI (mg) = Dry wt(mg) -(min ash wt - tare wt) * 1000		4						5.3		RPD =		NA	
		TVSS (mg/L) = LOI / mL sample * 1000								5.3		RPD =		NA	
		if LOI <1mg, TVSS = <1mg / mL sample * 1000 with "<" flag								5.3		RPD =		NA	

make no entries to shaded cells they are calculated !!

SF 26 01673



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID(TVSS) BENCHSHEET

Analyst: <i>ADL</i>	Date/Time: <i>1-26-11 13:45</i>	Oven #:	Muffle Furnance: <i>N/A</i>	Balance: <i>1123230597</i>	CV-02		CV-02			
					CV-02	CV-02	CV-02	CV-02		
TSS (mg/L) calculated as: Final Dry Weight (mg) = (Min Dry Weight - Tare Weight) * 1000 TSS = (Final Dry Weight) / (mL Sample) * 1000 If dry wt < 1 mg / mL sample * 1000 use "<" flag					Loss on Ignition (LOI) = TVSS (mg / L) is calculated as: LOI (mg / L) = Dry Weight (mg) - ((Minimum Ash Weight - Tare Weight) * 1000) TVSS (mg / L) = LOI / mL sample * 1,000 If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag					
LCS (Cellulose from MP Biochemicals) Lot # <i>6399J</i>					0.0500 Gram to 1000 mL = 50 mg / L TSS					
Cal Weight ID		CV-02	CV-02	CV-02	CV-02					
Date & Time:										
Cal Weight (10.0000g):										
Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams)		Dry Wt mg	TSS	Ash Weight 550°C	LOI - mg	TVSS mg/L
				1	2			1		
BLANK	P6497	1000	0.1099	0.1100	0.1100					
LCS#569-2	P6498	↓	0.1115	0.1610	0.1609					
SF50 A ²	P6499	925	0.1091	0.1101	0.1102					
↓	A ³ P6500	920	0.1149	0.1176	0.1195					
	B ² P6501	930	0.1081	0.1111	0.1111					
	C ² P6502	965	0.1108	0.1123	0.1124					
	D ² P6503	925	0.1134	0.1160	0.1161					
	E ² P6504	925	0.1140	0.1223	0.1223					
	F ² P6505	910	0.1124	0.1127	0.1127					
SF58 A ⁴	P6506	910	0.1141	0.1146	0.1149					
SF68 A ⁴	P6507	450	0.1163	0.1280	0.1280					
↓	B ⁶ P6508	150	0.1142	0.1387	0.1386					
↓	B ⁶ P6509	↓	0.1086	0.1335	0.1335					
	C ⁷ P6510	925	0.1110	0.1199	0.1199					
SF76 A ⁸	P6511	550	0.1128	0.1395	0.1396					
	B ⁸ P6512	950	0.1095	0.1120	0.1121					
	C ⁴ P6513	555	0.1085	0.1264	0.1265					
	D ⁸ P6514	920	0.1121	0.1125	0.1126					
	E ⁸ P6515	955	0.1107	0.1107	0.1107					
↓	F ⁸ P6516	940	0.1098	0.1103	0.1102					
	G ⁸ P6517	930	0.1076	0.1125	0.1123					

DATE: 01/27/11



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Analyst: <u>CAC</u>		Date/Time: <u>1-26-11</u>	Oven #:	Balance: <u>1123230597</u>					
Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places		TSS (mg/L) calculated as: Final Dry Weight (mg) = (Min Dry Weight - Tare Weight) * 1000 TSS = (Final Dry Weight) / (mL Sample) * 1000 If dry wt < 1 mg / mL sample * 1000 use "<" flag							
LCS (Cellulose from MP Biochemicals) Lott # <u>6398J</u>		Loss on Ignition (LOI) = TVSS (mg / L) is calculated as: LOI (mg / L) = Dry Weight (mg) - [(Minimum Ash Weight - Tare Weight) * 1000] TVSS (mg / L) = LOI / mL sample * 1,000 If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "<" flag							
Sample ID	Dish #	Filtered mL	Dry Weight 104°C (grams)		TSS	Ash Weight 550°C		LOI - mg	TVSS mg/L
			1	2		3	1			2
-- BLANK	P6576		0.114						
SF76 H ⁹	P6519	920	0.1141	0.1238	0.1239				
SF78 A ⁴	P6520	480	0.1167	0.1295	0.1296				
A ⁴ P6521		↓	0.1131	0.1258	0.1257				
↓ B ⁴ P6696		945	0.1135	0.1190	0.1188				
 1-26-11 CAC 									

6054F

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Page 2 of 2

Revision 002
12/28/09

SF26: 01675



ARI Job No.: SF50

Client ID: _____

Parameter: TSS

Client Project: _____

List problems, concerns, corrective actions and any other pertinent information

Client supplied extra volume for duplicate analysis. Samples were run at full volume and produced a High RPD of 87.2%.
Data entered as-is.

Analyst Initials:

CSE

Date:

1-26-11

February 3, 2011

Ms. Sue Dunnihoo
Analytical Resources Incorporated
4611 South 134th Place
Tukwila, WA 98168-3240

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6547**. This corresponds to your **Lora Lake Apts RI** project under ARI project number **SF26**. Four aqueous samples were received at our laboratory on 1/25/11 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6547**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet, and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The Level I summary and the Electronic Data Deliverables (EDDs) have been sent to you via email. A hardcopy of the Level IV data package has been sent to you via OnTrac overnight delivery. The enclosed results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6547**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 6547

Received on: 01/25/2011

Project Due: 02/16/2011 Storage: R1

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6547-001-SA	1	SF26	MW11-011911	EPA 1613 D/F	Ground Water	01/19/2011	10:42 am	01/19/2012
6547-002-SA	1	SF26	MW10-011911	EPA 1613 D/F	Ground Water	01/19/2011	11:56 am	01/19/2012
6547-003-SA	1	SF26	MW07-011911	EPA 1613 D/F	Ground Water	01/19/2011	02:32 pm	01/19/2012
6547-004-SA	1	SF26	MW14-011911	EPA 1613 D/F	Ground Water	01/19/2011	04:18 pm	01/19/2012

EPA Method 1613
PCDD/F



FAL ID: 6547-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X2207

Date Extracted: 01-31-2011
Date Received: NA
Amount: 1.000 L

ICal: poddfal3-8-23-10
GC Column: DB5
Units: pg/L

Acquired: 02-01-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.06		-	0.212				
1,2,3,7,8-PeCDD	ND	1.54		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.16		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.63		-	0.381	Total TCDD	ND	1.06	
1,2,3,7,8,9-HxCDD	ND	2.40		-	0.351	Total PeCDD	ND	1.54	
1,2,3,4,6,7,8-HpCDD	ND	2.50		-	0.495	Total HxCDD	ND	2.63	
OCDD	ND	4.49		-	1.02	Total HpCDD	ND	2.50	
2,3,7,8-TCDF	ND	0.813		-	0.112				
1,2,3,7,8-PeCDF	ND	1.13		-	0.219				
2,3,4,7,8-PeCDF	ND	1.23		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.91		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.91		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.04		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.32		-	0.185	Total TCDF	ND	0.813	
1,2,3,4,6,7,8-HpCDF	ND	2.43		-	0.251	Total PeCDF	ND	1.23	
1,2,3,4,7,8,9-HpCDF	ND	3.59		-	0.280	Total HxCDF	ND	2.32	
OCDF	ND	4.59		-	0.451	Total HpCDF	ND	3.59	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	97.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	108	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	100	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	101	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	107	23.0 - 140	
13C-OCDD	111	17.0 - 157	
13C-2,3,7,8-TCDF	90.2	24.0 - 169	
13C-1,2,3,7,8-PeCDF	101	24.0 - 185	
13C-2,3,4,7,8-PeCDF	97.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	96.3	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	93.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	93.9	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	84.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	89.2	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	94.5	26.0 - 138	
13C-OCDF	94.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 99.7 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst:

Date: 2/4/11

Reviewed By:

Date: 2/4/11

EPA Method 1613
PCDD/F



FAL ID: 6547-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X2207

Date Extracted: 01-31-2011
Date Received: NA
Amount: 1.000 L

ICal: poddfal3-8-23-10
GC Column: DB5
Units: ng/ml

Acquired: 02-01-2011
2005 WHO TEQ: NA


Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.9	6.70 - 15.8	
1,2,3,7,8-PeCDD	52.0	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	50.8	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	54.1	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	55.2	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	46.1	35.0 - 70.0	
OCDD	107	78.0 - 144	
2,3,7,8-TCDF	8.50	7.50 - 15.8	
1,2,3,7,8-PeCDF	48.2	40.0 - 67.0	
2,3,4,7,8-PeCDF	47.4	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	55.0	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	56.6	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	56.7	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	55.3	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	54.6	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	54.0	39.0 - 69.0	
OCDF	105	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	70.3	20.0 - 175	
13C-1,2,3,7,8-PeCDD	81.6	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	73.7	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	71.7	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	72.6	26.0 - 166	
13C-OCDD	74.2	13.0 - 198	
13C-2,3,7,8-TCDF	68.7	22.0 - 152	
13C-1,2,3,7,8-PeCDF	76.3	21.0 - 192	
13C-2,3,4,7,8-PeCDF	78.0	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	67.7	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	65.6	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	65.2	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	63.7	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	58.8	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	65.9	20.0 - 186	
13C-OCDF	68.5	13.0 - 198	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	73.6	31.0 - 191	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 

Date: 2/4/11

Reviewed By: SN

Date: 2/4/11

EPA Method 1613
PCDD/F



FAL ID: 6547-001-SA
Client ID: MW11-011911
Matrix: Aqueous
Batch No: X2207

Date Extracted: 01-31-2011
Date Received: 01-25-2011
Amount: 1.006 L

ICal: pccdfal3-8-23-10
GC Column: DB5
Units: pg/L

Acquired: 02-01-2011
2005 WHO TEQ: 0.00789

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.81		-	0.212				
1,2,3,7,8-PeCDD	ND	2.77		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.82		-	0.328				
1,2,3,6,7,8-HxCDD	ND	3.60		-	0.381	Total TCDD	ND	1.81	
1,2,3,7,8,9-HxCDD	ND	3.22		-	0.351	Total PeCDD	ND	2.77	
1,2,3,4,6,7,8-HpCDD	ND	4.89		-	0.495	Total HxCDD	ND	3.60	
OCDD	26.3	-	J	0.00789	1.02	Total HpCDD	ND	4.89	
2,3,7,8-TCDF	ND	1.15		-	0.112				
1,2,3,7,8-PeCDF	ND	1.95		-	0.219				
2,3,4,7,8-PeCDF	ND	1.99		-	0.232				
1,2,3,4,7,8-HxCDF	ND	2.29		-	0.162				
1,2,3,6,7,8-HxCDF	ND	2.27		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.40		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.58		-	0.185	Total TCDF	ND	1.15	
1,2,3,4,6,7,8-HpCDF	ND	2.52		-	0.251	Total PeCDF	ND	1.99	
1,2,3,4,7,8,9-HpCDF	ND	3.76		-	0.280	Total HxCDF	ND	2.58	
OCDF	ND	4.68		-	0.451	Total HpCDF	ND	3.76	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	66.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	78.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	72.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	72.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	75.6	23.0 - 140	
13C-OCDD	77.7	17.0 - 157	
13C-2,3,7,8-TCDF	66.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	74.0	24.0 - 185	
13C-2,3,4,7,8-PeCDF	75.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	66.8	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	63.0	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	66.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	64.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	65.4	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	68.8	26.0 - 138	
13C-OCDF	69.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 70.2 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst:
Date: 2/4/11

Reviewed By:
Date: 2/4/11

EPA Method 1613
PCDD/F



FAL ID: 6547-002-SA
Client ID: MW10-011911
Matrix: Aqueous
Batch No: X2207

Date Extracted: 01-31-2011
Date Received: 01-25-2011
Amount: 1.043 L

ICal: pccdfal3-8-23-10
GC Column: DB5
Units: pg/L

Acquired: 02-02-2011
2005 WHO TEQ: 0.00420

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.60		-	0.212				
1,2,3,7,8-PeCDD	ND	1.93		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.37		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.93		-	0.381	Total TCDD	ND	1.60	
1,2,3,7,8,9-HxCDD	ND	2.66		-	0.351	Total PeCDD	ND	1.93	
1,2,3,4,6,7,8-HpCDD	ND	3.08		-	0.495	Total HxCDD	ND	2.93	
OCDD	14.0	-	J	0.00420	1.02	Total HpCDD	ND	3.08	
2,3,7,8-TCDF	ND	0.982		-	0.112				
1,2,3,7,8-PeCDF	ND	1.29		-	0.219				
2,3,4,7,8-PeCDF	ND	1.34		-	0.232				
1,2,3,4,7,8-HxCDF	ND	2.02		-	0.162				
1,2,3,6,7,8-HxCDF	ND	2.01		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.19		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.30		-	0.185	Total TCDF	ND	0.982	
1,2,3,4,6,7,8-HpCDF	ND	2.84		-	0.251	Total PeCDF	ND	1.34	
1,2,3,4,7,8,9-HpCDF	ND	4.23		-	0.280	Total HxCDF	ND	2.30	
OCDF	ND	5.68		-	0.451	Total HpCDF	ND	4.23	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	83.2	25.0 - 164	
13C-1,2,3,7,8-PeCDD	94.5	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	84.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	84.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	88.2	23.0 - 140	
13C-OCDD	94.5	17.0 - 157	
13C-2,3,7,8-TCDF	81.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	91.9	24.0 - 185	
13C-2,3,4,7,8-PeCDF	91.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	79.9	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	76.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	76.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.1	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	74.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	80.1	26.0 - 138	
13C-OCDF	81.5	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 91.4 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 2/4/11

Reviewed By: DN
Date: 2/4/11

EPA Method 1613
PCDD/F



FAL ID: 6547-003-SA
Client ID: MW07-011911
Matrix: Aqueous
Batch No: X2207

Date Extracted: 01-31-2011
Date Received: 01-25-2011
Amount: 1.023 L

ICal: pccdfal3-8-23-10
GC Column: DB5
Units: pg/L

Acquired: 02-02-2011
2005 WHO TEQ: 0.00486

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.58		-	0.212				
1,2,3,7,8-PeCDD	ND	1.78		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.01		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.55		-	0.381	Total TCDD	ND	1.58	
1,2,3,7,8,9-HxCDD	ND	2.29		-	0.351	Total PeCDD	ND	1.78	
1,2,3,4,6,7,8-HpCDD	ND	2.52		-	0.495	Total HxCDD	ND	2.55	
OCDD	16.2	-	J	0.00486	1.02	Total HpCDD	ND	2.52	
2,3,7,8-TCDF	ND	0.941		-	0.112				
1,2,3,7,8-PeCDF	ND	1.39		-	0.219				
2,3,4,7,8-PeCDF	ND	1.44		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.57		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.55		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.75		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.76		-	0.185	Total TCDF	ND	0.941	
1,2,3,4,6,7,8-HpCDF	ND	2.41		-	0.251	Total PeCDF	ND	1.44	
1,2,3,4,7,8,9-HpCDF	ND	3.62		-	0.280	Total HxCDF	ND	1.76	
OCDF	ND	5.40		-	0.451	Total HpCDF	ND	3.62	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	108	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	88.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	97.7	23.0 - 140	
13C-OCDD	100	17.0 - 157	
13C-2,3,7,8-TCDF	90.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	101	24.0 - 185	
13C-2,3,4,7,8-PeCDF	99.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	83.8	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	79.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	79.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	79.7	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	81.1	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	86.9	26.0 - 138	
13C-OCDF	87.6	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 95.3 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 2/4/11

Reviewed By: [Signature]
Date: 2/4/11

EPA Method 1613
PCDD/F



FAL ID: 6547-004-SA
Client ID: MW14-011911
Matrix: Aqueous
Batch No: X2207

Date Extracted: 01-31-2011
Date Received: 01-25-2011
Amount: 0.979 L

ICal: pccdfal3-8-23-10
GC Column: DB5
Units: pg/L

Acquired: 02-02-2011
2005 WHO TEQ: 0.00


Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.45		-	0.212				
1,2,3,7,8-PeCDD	ND	2.15		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.30		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.90		-	0.381	Total TCDD	ND	1.45	
1,2,3,7,8,9-HxCDD	ND	2.61		-	0.351	Total PeCDD	ND	2.15	
1,2,3,4,6,7,8-HpCDD	ND	3.27		-	0.495	Total HxCDD	ND	2.90	
OCDD	ND	6.97		-	1.02	Total HpCDD	ND	3.27	
2,3,7,8-TCDF	ND	0.877		-	0.112				
1,2,3,7,8-PeCDF	ND	1.84		-	0.219				
2,3,4,7,8-PeCDF	ND	1.90		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.72		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.61		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.76		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.88		-	0.185	Total TCDF	ND	0.877	
1,2,3,4,6,7,8-HpCDF	ND	2.36		-	0.251	Total PeCDF	ND	1.90	
1,2,3,4,7,8,9-HpCDF	ND	3.71		-	0.280	Total HxCDF	ND	1.88	
OCDF	ND	5.42		-	0.451	Total HpCDF	ND	3.71	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	78.1	25.0 - 164	
13C-1,2,3,7,8-PeCDD	94.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	84.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	81.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	89.2	23.0 - 140	
13C-OCDD	92.5	17.0 - 157	
13C-2,3,7,8-TCDF	75.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	86.0	24.0 - 185	
13C-2,3,4,7,8-PeCDF	86.2	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	76.8	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	75.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	75.8	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	73.0	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	76.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	75.7	26.0 - 138	
13C-OCDF	78.3	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 81.7 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 2/4/11

Reviewed By: DN
Date: 2/4/11



6541
 J.C.

Laboratory: Frontier Analytical Laboratory
 Lab Contact: BRAD SILVERBUSH
 Lab Address: 5172 Hillsdale Circle
 El Dorado Hills, CA 95762
 Phone: 916-934-0900
 Fax: 916-934-0999

ARI Client: Floyd-Snider
 Project ID: Lora Lake Apts RI
 ARI PM: Sue Dunnihoo
 Phone: 206-695-6207
 Fax: 206-695-6201

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: 02/03/11
 Email Results (Y/N): Yes

Limits of Liability. Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
11-1071-SF26A	MW11-011911	01/19/11 10:42	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1072-SF26B	MW10-011911	01/19/11 11:56	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1073-SF26C	MW07-011911	01/19/11 14:32	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1074-SF26D	MW14-011911	01/19/11 16:18	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					

Sue to Kathy; L4 Data package + Excel EDD.

Carrier	UPS		Airbill	178326950151463229		Date	1/24/11
Relinquished by	Company	178326950150928636		Date	1/24/11	Time	1515
Received by	Company	178326950150428630		Date	1/25/11	Time	1010

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6547**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	SF26
Date Received:	01/25/2011
Time Received:	10:10 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	4
Duplicates:	4
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950150928630
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	01/19/2012
Adequate Sample Volume	Yes
Anomalies or additional comments:	
L4 DATA PACKAGE / EXCEL EDD	



Frontier Analytical Laboratory

EXTRACTION SHEET

Project #: 6547 Extraction Date: 2011-01-31 Extraction Chemist: MP

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX

Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS		NS		CSS	
			Amt: 10.0uL ID: 100511A Vial: 3 Chemist/Witness/Date		Amt: 10.0uL ID: 100511B Vial: 1 Chemist/Witness/Date		Amt: 10.0uL ID: 100511C Vial: 3 Chemist/Witness/Date	
2207-001-0001-MB								
2207-001-0001-OPR								
6547-001-0001-SA	1.006 L	N/A	MP	1.31.11	N/A		MP	2.1.11
6547-002-0001-SA	1.043 L	↓		↓		↓		↓
6547-003-0001-SA	1.023 L	↓		↓		↓		↓
6547-004-0001-SA	0.979 L	↓		↓		↓		↓

0546

AX-21 Charcoal Cleaned	031210	Acetone	105790	Acid Alumina	A0284730	Hexane	105556
Hydrochloric Acid	B08505	Methanol	106063	Methylene Chloride (DCM)	50267	Silica Gel	TA1592834
Sodium Hydroxide	9120904	Sodium Sulfate	1750C277	Sulfuric Acid	104256	Tetradecane	086237
Toluene	104811	Water	50229	C-18 Empore Discs	320637	Cyclohexane	48151

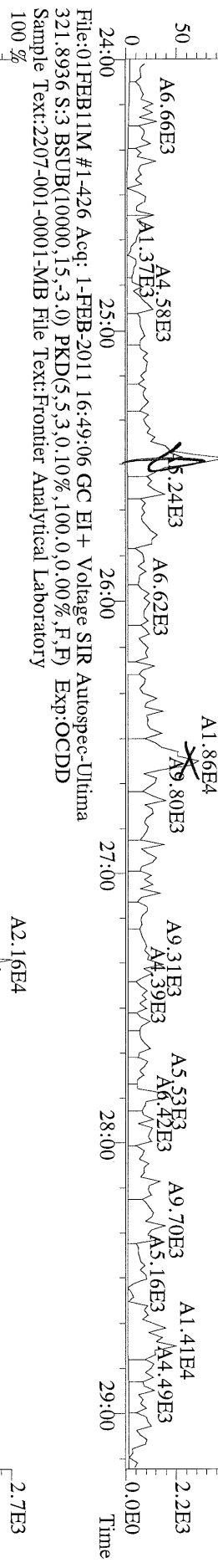
Comments:

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL	
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	723	795	1.06	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	900	788	1.54	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1040	1060	2.16	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1040	1060	2.63	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1040	1060	2.40	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	868	856	2.50	
OCDD	*	* n	NotFnd	1.43	*		2.50	776	840	4.49	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1380	1180	0.813	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	776	936	1.13	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	776	936	1.23	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	1040	1020	1.91	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	1040	1020	1.91	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	1040	1020	2.04	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	1040	1020	2.32	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	912	892	2.43	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	912	892	3.59	
OCDF	*	* n	NotFnd	0.79	*		2.50	796	740	4.59	
Rec											
13C-2,3,7,8-TCDD	3.00e+07	0.78	y	27:19	1.02	1950				97.7	
13C-1,2,3,7,8-PeCDD	2.73e+07	1.72	y	33:10	0.84	2160				108	
13C-1,2,3,4,7,8-HxCDD	1.93e+07	1.25	y	38:33	1.07	2010				100	
13C-1,2,3,6,7,8-HxCDD	1.82e+07	1.24	y	38:42	1.01	2010				101	
13C-1,2,3,4,6,7,8-HpCDD	1.63e+07	1.03	y	44:10	0.86	2130				107	
13C-OCDD	2.18e+07	1.02	y	49:44	0.55	4450				111	
13C-2,3,7,8-TCDF	4.66e+07	0.88	y	26:35	0.99	1800				90.2	
13C-1,2,3,7,8-PeCDF	4.37e+07	1.65	y	31:25	0.84	2010				101	
13C-2,3,4,7,8-PeCDF	4.11e+07	1.69	y	32:45	0.81	1950				97.4	
13C-1,2,3,4,7,8-HxCDF	3.19e+07	0.49	y	37:08	1.85	1930				96.3	
13C-1,2,3,6,7,8-HxCDF	4.25e+07	0.48	y	37:21	2.54	1870				93.6	
13C-2,3,4,6,7,8-HxCDF	3.39e+07	0.48	y	38:18	2.01	1880				93.9	
13C-1,2,3,7,8,9-HxCDF	3.08e+07	0.49	y	39:44	2.03	1700				84.8	
13C-1,2,3,4,6,7,8-HpCDF	1.77e+07	0.49	y	42:15	1.11	1780				89.2	
13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.49	y	45:06	0.80	1890				94.5	
13C-OCDF	3.66e+07	0.93	y	50:06	1.08	3770				94.4	
37Cl-2,3,7,8-TCDD	8.21e+06			27:20	0.69	797				99.7	
13C-1,2,3,4-TCDD	3.00e+07	0.76	y	26:45	-	66.8					
13C-1,2,3,4-TCDF	5.19e+07	0.88	y	25:29	-	71.8					
13C-1,2,3,7,8,9-HxCDD	1.79e+07	1.29	y	39:09	-	64.9					
Fac Noise-1 Noise-2 DL #Hom											
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	723	795	1.06	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	900	788	1.54	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	1040	1060	2.63	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	868	856	2.50	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1380	1180	0.813	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	776	936	1.23	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	776	936	1.23	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	1040	1020	2.32	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	912	892	3.59	0

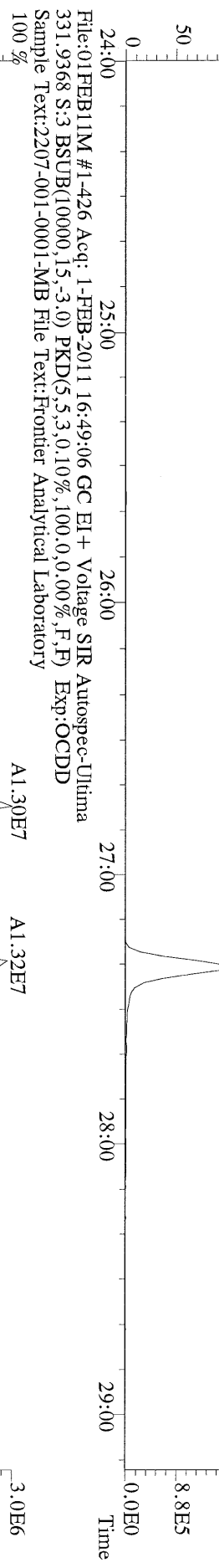
Analyst: 

Date: 2/2/11

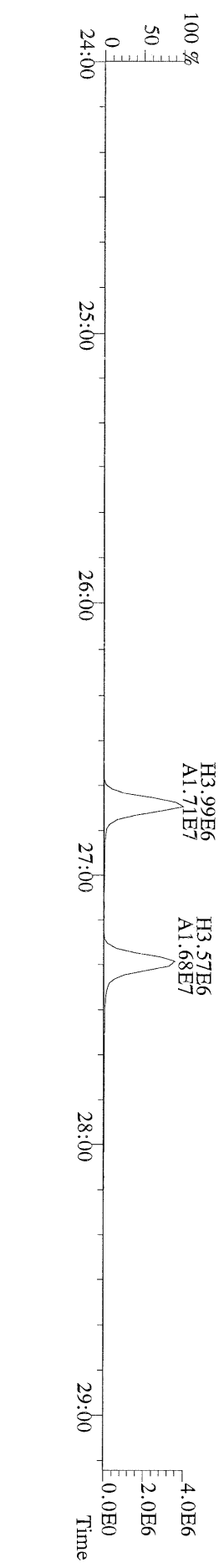
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319.8965 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
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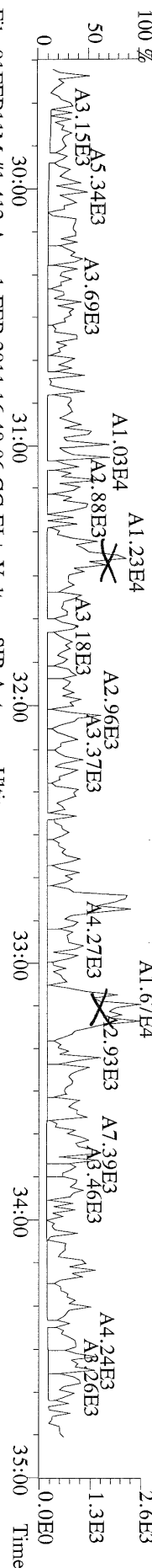
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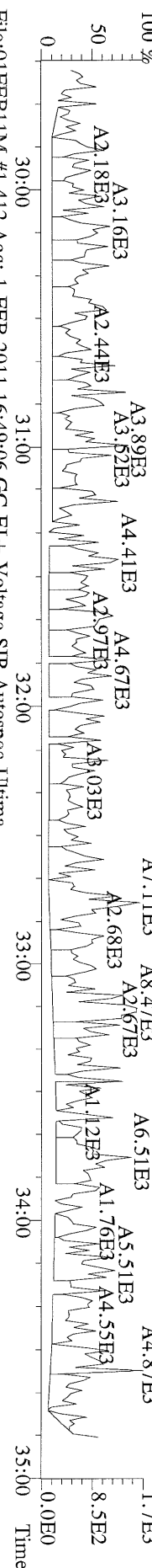
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333.9339 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
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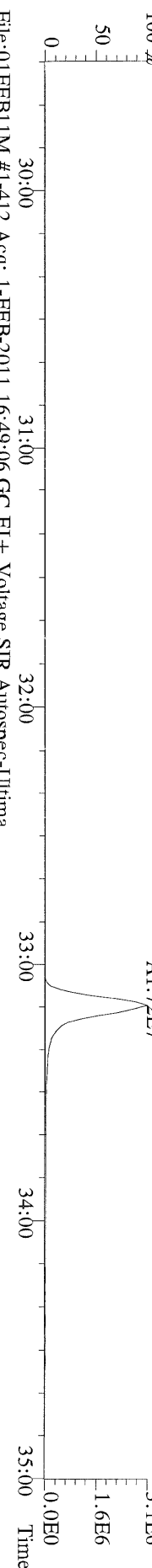
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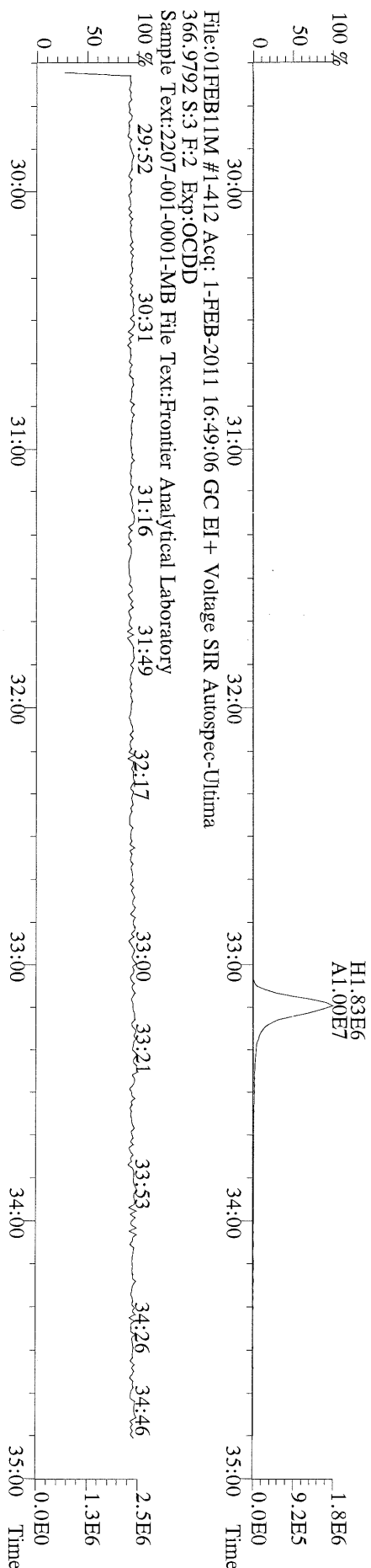
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357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



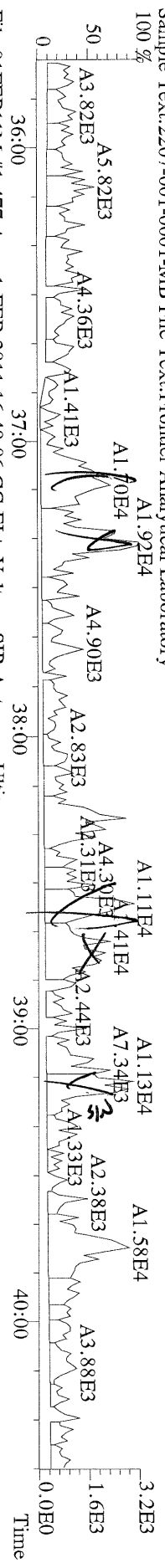
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367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



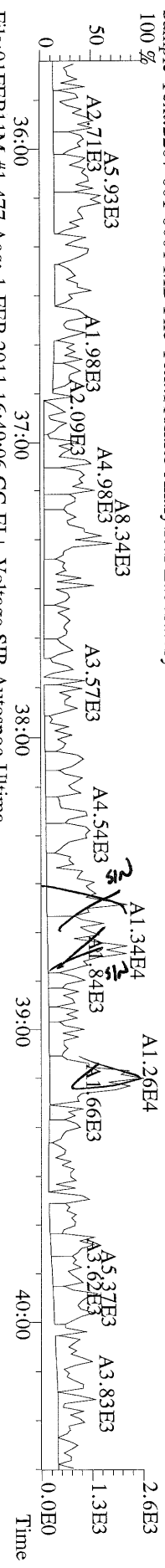
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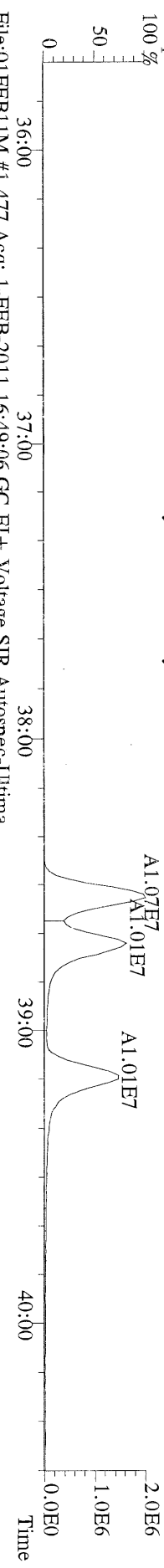
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389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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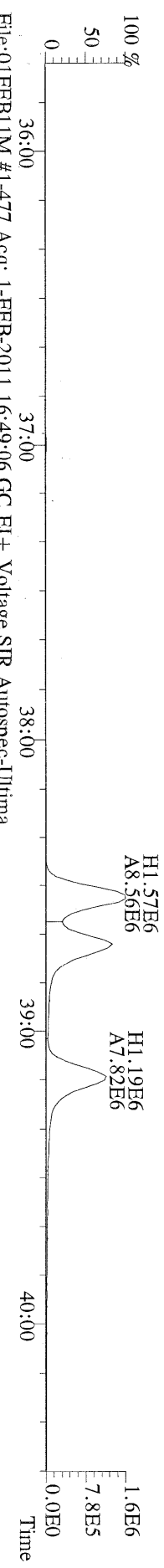
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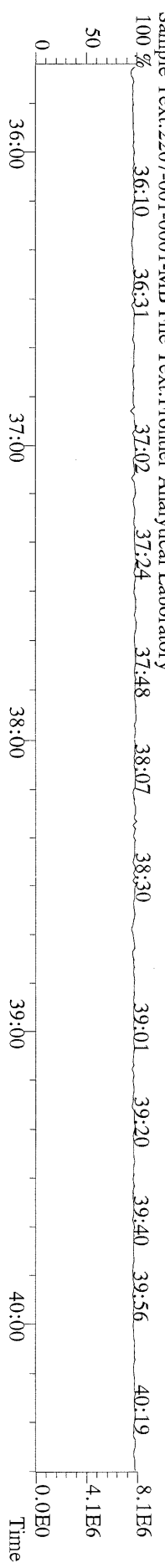
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401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



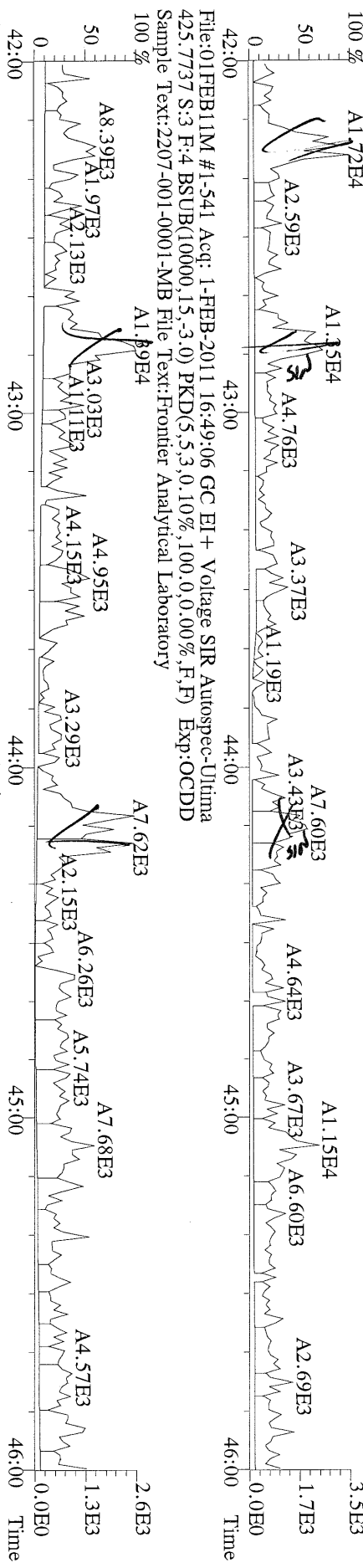
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403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



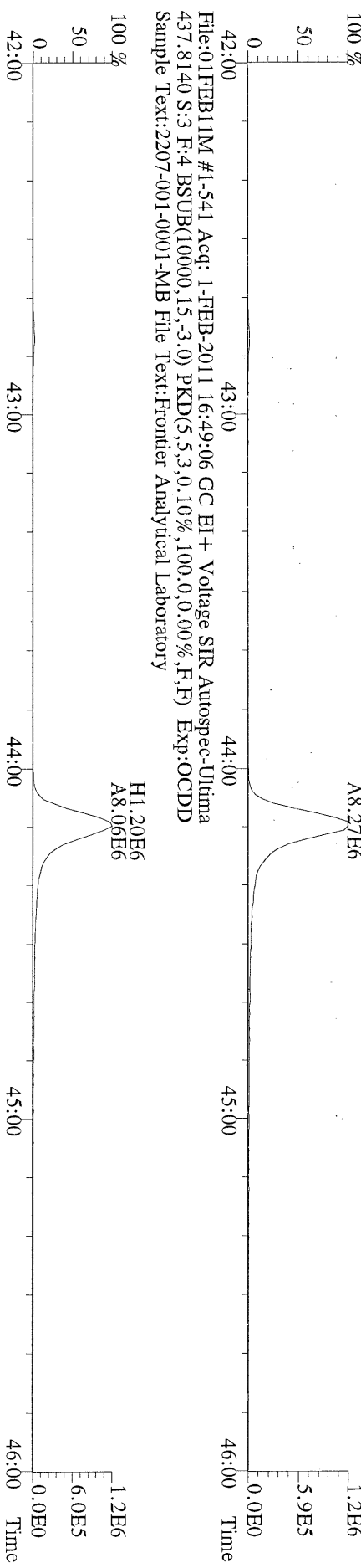
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380.9760 S:3 F:3 Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



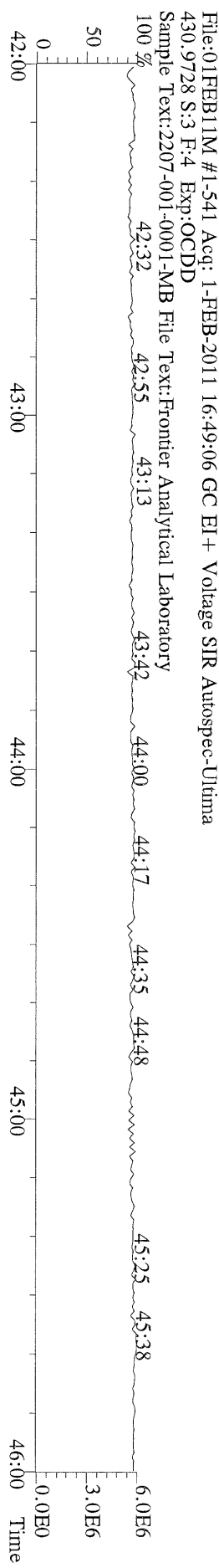
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423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



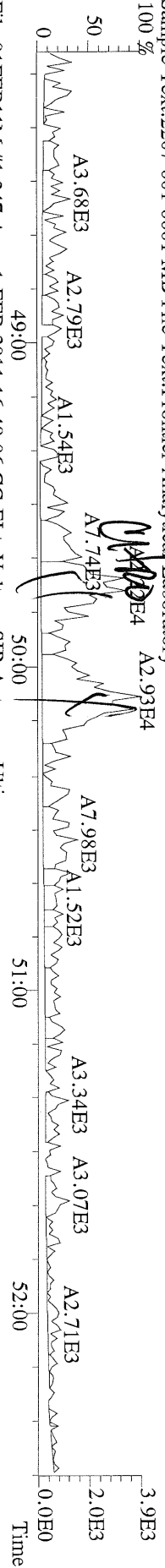
File:01FEBB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



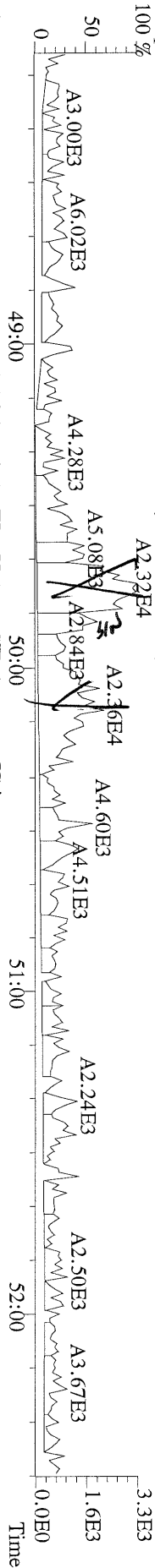
File:01FEBB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



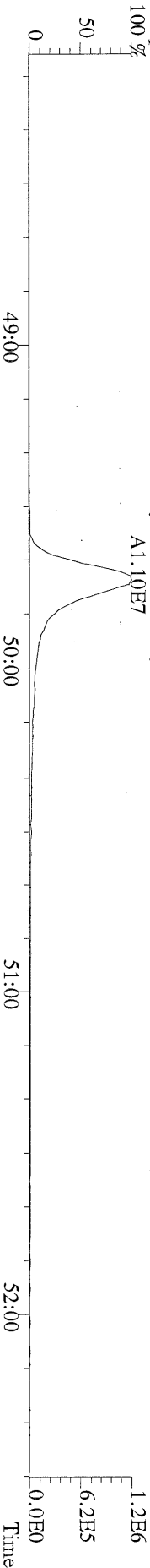
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



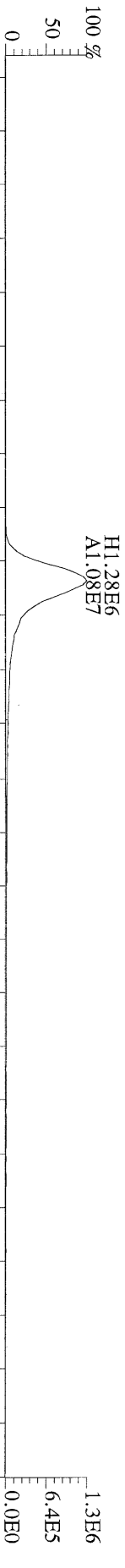
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



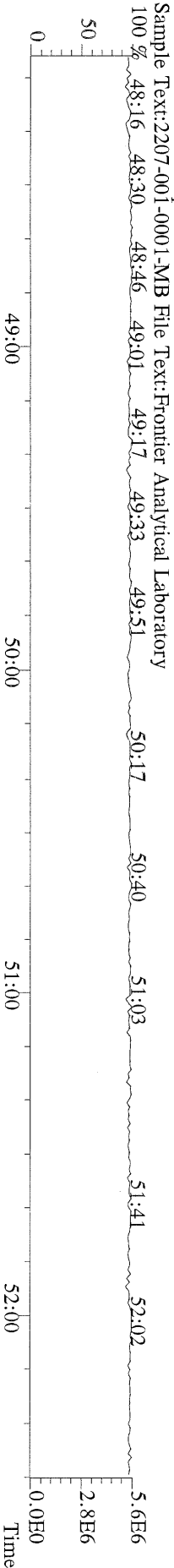
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



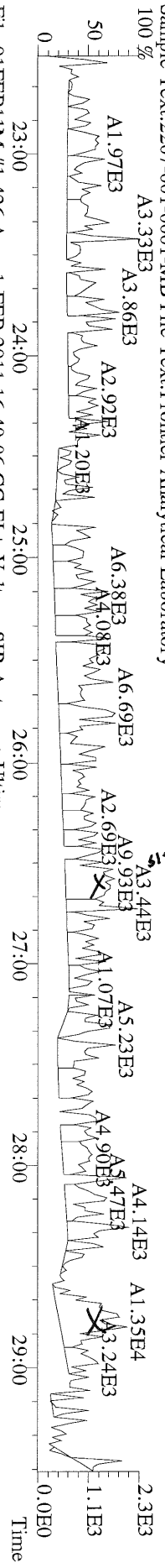
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



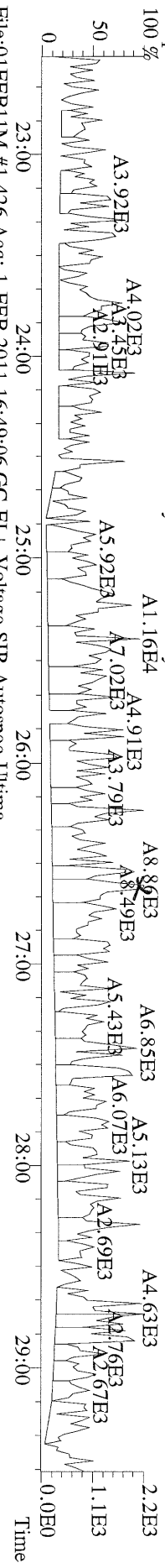
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:3 F:5 Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



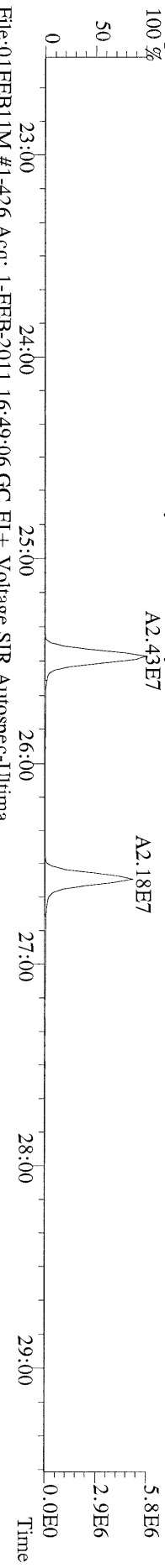
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



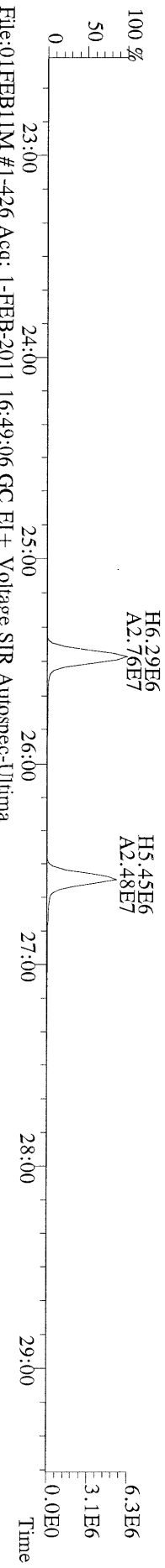
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



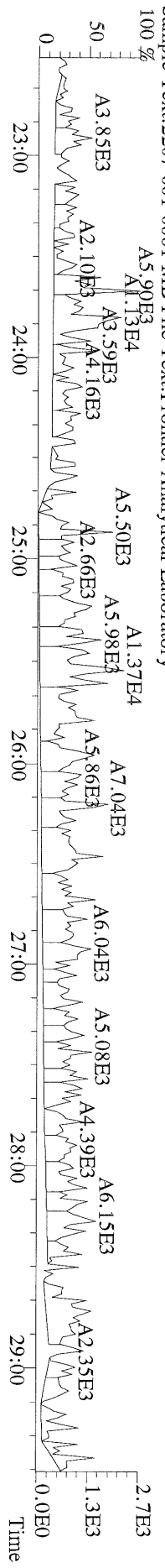
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



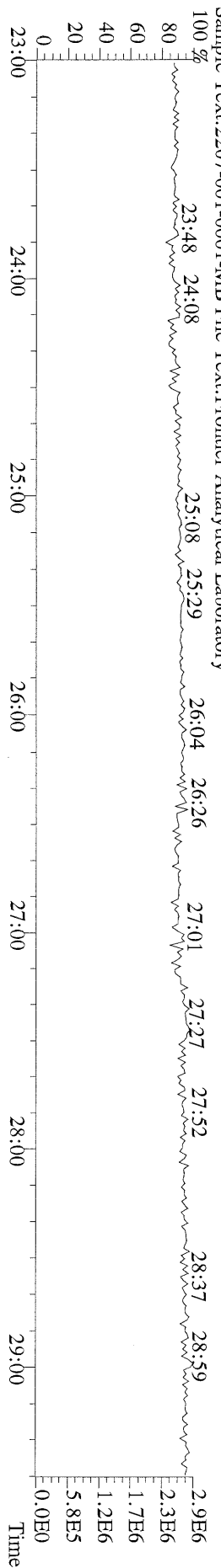
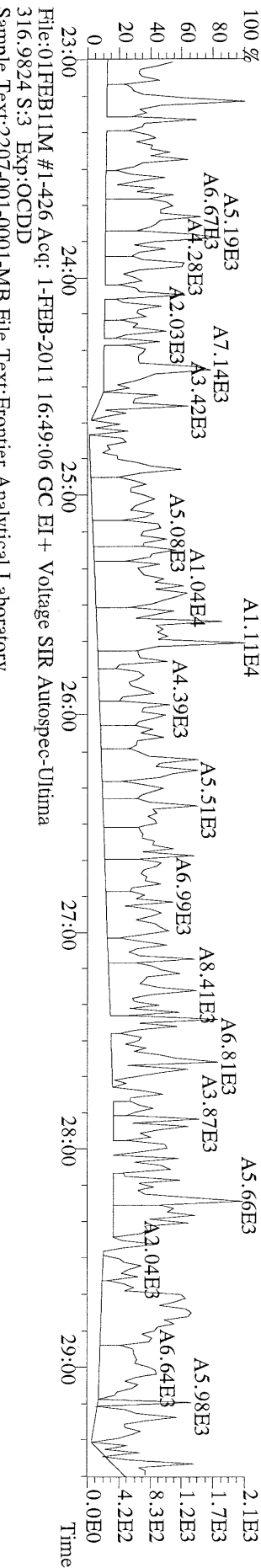
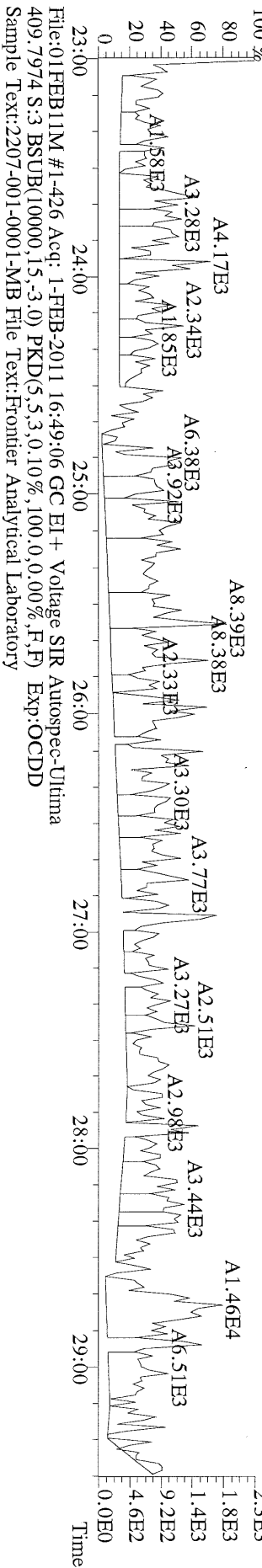
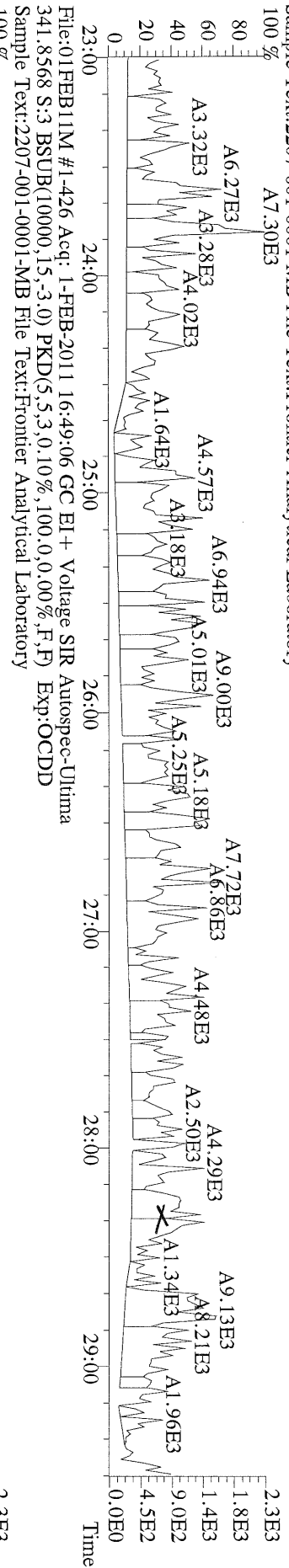
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



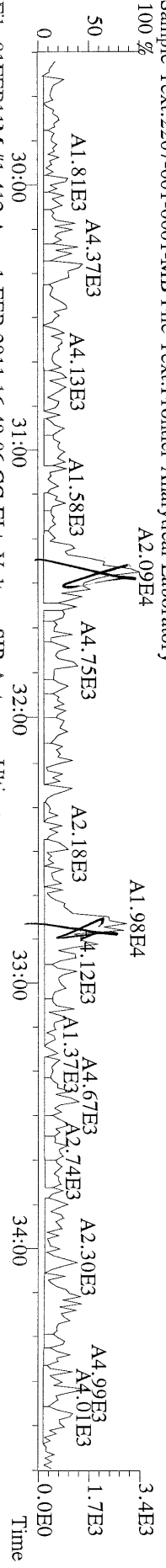
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



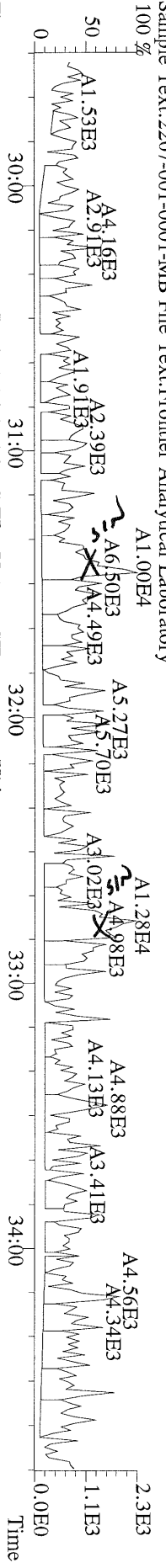
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



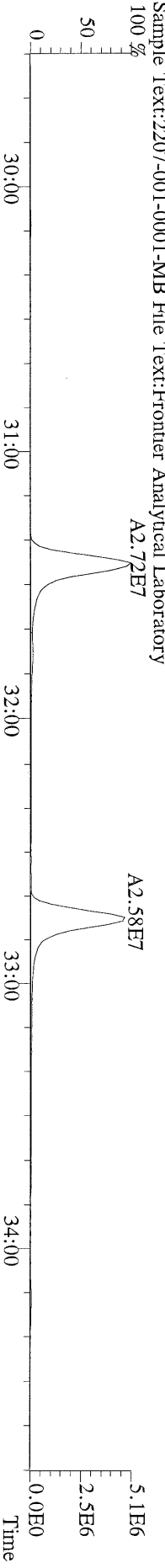
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



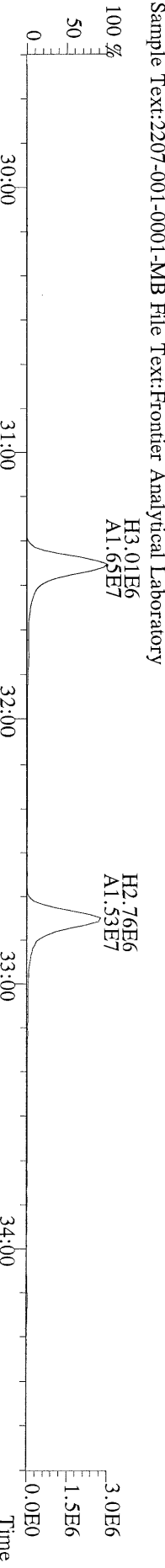
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



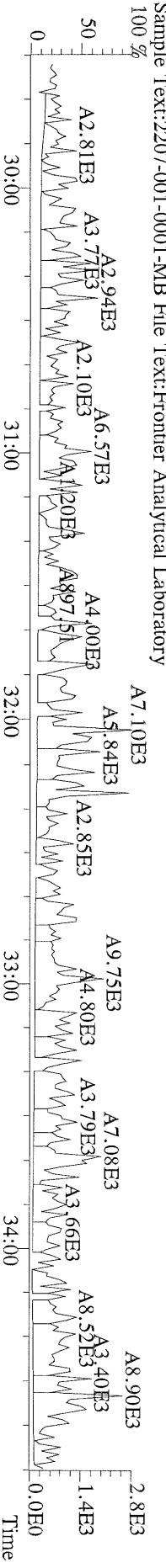
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



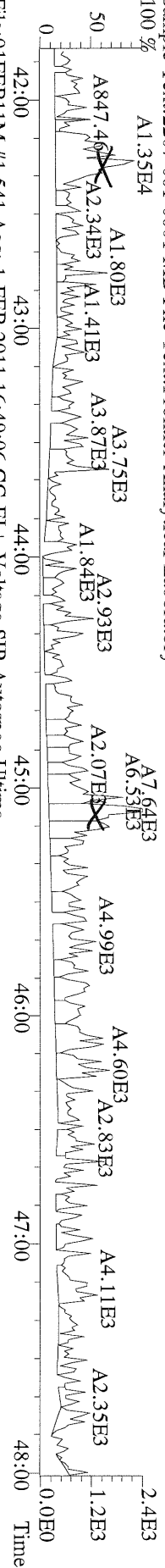
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



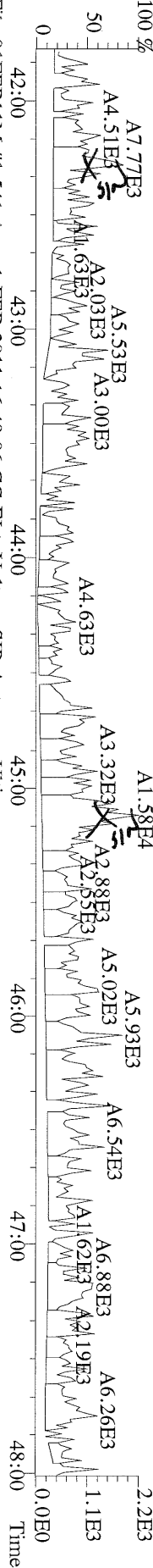
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



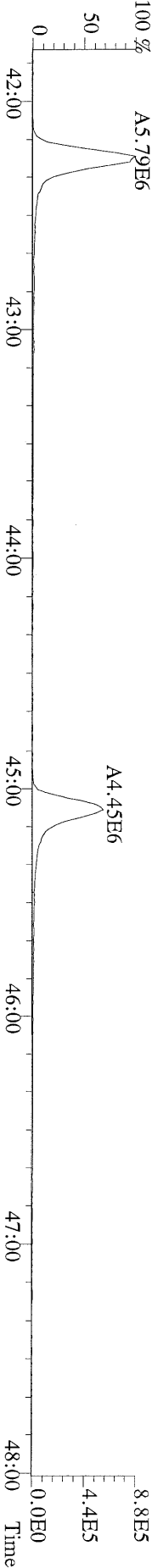
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



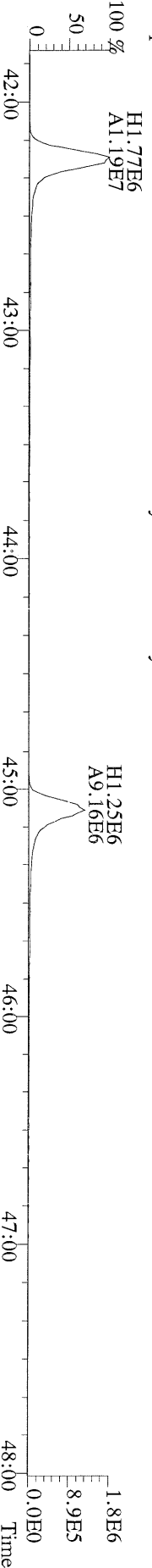
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



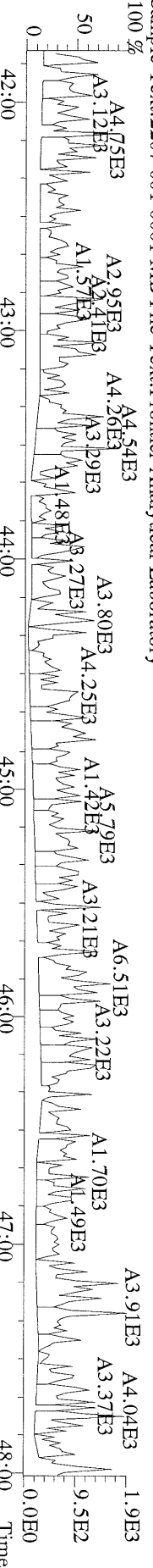
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



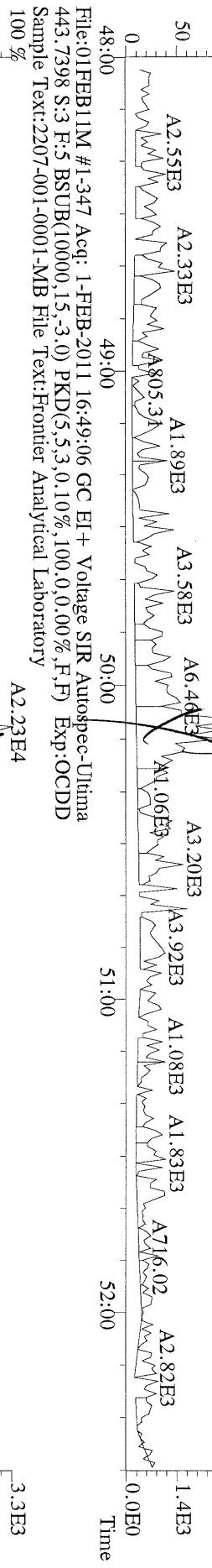
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



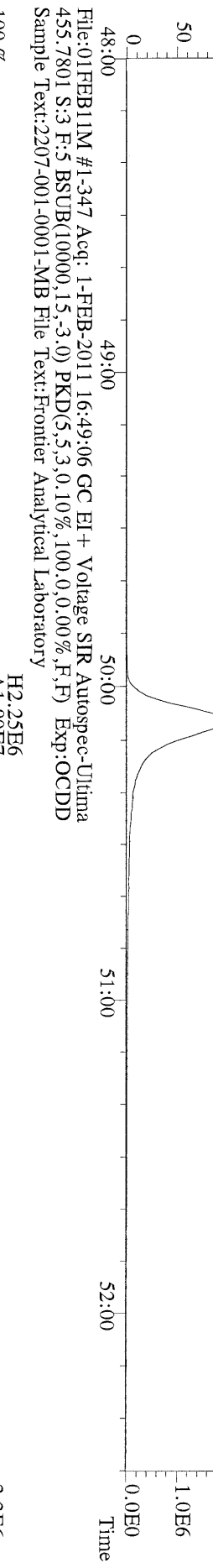
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



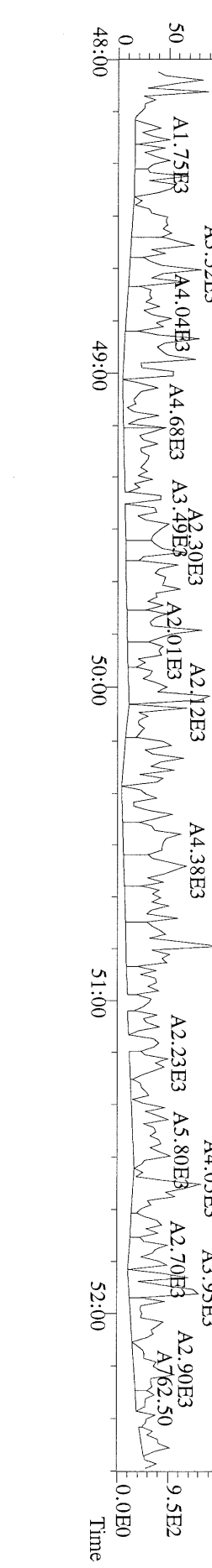
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



2207-001-0001-OPR

USEPA - ITD

FORM 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Matrix (aqueous/solid/leachate): Aqueous

OPR Data Filename: 01FEB11M Sam:2

Ext. Date: 1/31/11 Shift: Day

Analysis Date: 1-FEB-11 15:53:43

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	10.9	6.70 - 15.8 ✓
1,2,3,7,8-PeCDD	50	52.0	35.0 - 71.0 ✓
1,2,3,4,7,8-HxCDD	50	50.8	35.0 - 82.0 ✓
1,2,3,6,7,8-HxCDD	50	54.1	38.0 - 67.0 ✓
1,2,3,7,8,9-HxCDD	50	55.2	32.0 - 81.0 ✓
1,2,3,4,6,7,8-HpCDD	50	46.1	35.0 - 70.0 ✓
OCDD	100	107	78.0 - 144 ✓
2,3,7,8-TCDF	10	8.50	7.50 - 15.8 ✓
1,2,3,7,8-PeCDF	50	48.2	40.0 - 67.0 ✓
2,3,4,7,8-PeCDF	50	47.4	34.0 - 80.0 ✓
1,2,3,4,7,8-HxCDF	50	55.0	36.0 - 67.0 ✓
1,2,3,6,7,8-HxCDF	50	56.6	42.0 - 65.0 ✓
2,3,4,6,7,8-HxCDF	50	56.7	35.0 - 78.0 ✓
1,2,3,7,8,9-HxCDF	50	55.3	39.0 - 65.0 ✓
1,2,3,4,6,7,8-HpCDF	50	54.6	41.0 - 61.0 ✓
1,2,3,4,7,8,9-HpCDF	50	54.0	39.0 - 69.0 ✓
OCDF	100	105	63.0 - 170 ✓


(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613

Analyst: 

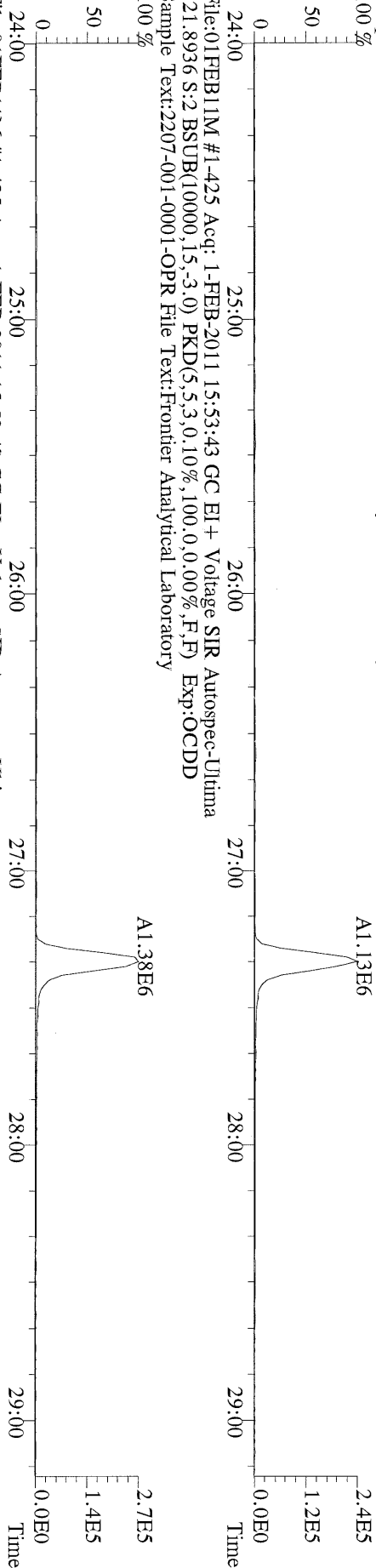
Date: 2/2/11

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	2.51e+06	0.82 y	27:20	1.11	10.9		2.50	-	*	
1,2,3,7,8-PeCDD	1.13e+07	1.48 y	33:10	1.10	52.0		2.50	-	*	
1,2,3,4,7,8-HxCDD	1.01e+07	1.25 y	38:33	1.37	50.8		2.50	-	*	
1,2,3,6,7,8-HxCDD	9.85e+06	1.26 y	38:43	1.37	54.1		2.50	-	*	
1,2,3,7,8,9-HxCDD	1.04e+07	1.24 y	39:10	1.36	55.2		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	7.59e+06	0.90 y	44:10	1.45	46.1		2.50	-	*	
OCDD	1.14e+07	0.94 y	49:44	1.43	107		2.50	-	*	
2,3,7,8-TCDF	4.26e+06	0.70 y	26:35	1.50	8.50		2.50	-	*	
1,2,3,7,8-PeCDF	1.42e+07	1.58 y	31:26	0.94	48.2		2.50	-	*	
2,3,4,7,8-PeCDF	1.37e+07	1.58 y	32:46	0.94	47.4		2.50	-	*	
1,2,3,4,7,8-HxCDF	1.17e+07	1.27 y	37:10	0.93	55.0		2.50	-	*	
1,2,3,6,7,8-HxCDF	1.41e+07	1.26 y	37:21	0.82	56.6		2.50	-	*	
2,3,4,6,7,8-HxCDF	1.25e+07	1.23 y	38:18	0.92	56.7		2.50	-	*	
1,2,3,7,8,9-HxCDF	1.30e+07	1.25 y	39:45	1.00	55.3		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	9.04e+06	1.05 y	42:16	1.39	54.6		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	7.08e+06	1.03 y	45:06	1.36	54.0		2.50	-	*	
OCDF	1.12e+07	0.90 y	50:08	0.79	105		2.50	-	*	
										Rec
13C-2,3,7,8-TCDD	2.07e+07	0.77 y	27:19	1.02	70.3					70.3
13C-1,2,3,7,8-PeCDD	1.97e+07	1.67 y	33:09	0.84	81.6					81.6
13C-1,2,3,4,7,8-HxCDD	1.44e+07	1.25 y	38:32	1.07	73.7					73.7
13C-1,2,3,6,7,8-HxCDD	1.33e+07	1.24 y	38:42	1.01	71.7					71.7
13C-1,2,3,4,6,7,8-HpCDD	1.14e+07	1.01 y	44:09	0.86	72.6					72.6
13C-OCDD	1.48e+07	0.95 y	49:44	0.55	148					74.2
13C-2,3,7,8-TCDF	3.34e+07	0.88 y	26:34	0.99	68.7					68.7
13C-1,2,3,7,8-PeCDF	3.12e+07	1.71 y	31:25	0.84	76.3					76.3
13C-2,3,4,7,8-PeCDF	3.09e+07	1.74 y	32:45	0.81	78.0					78.0
13C-1,2,3,4,7,8-HxCDF	2.29e+07	0.49 y	37:08	1.85	67.7					67.7
13C-1,2,3,6,7,8-HxCDF	3.04e+07	0.47 y	37:21	2.54	65.6					65.6
13C-2,3,4,6,7,8-HxCDF	2.40e+07	0.49 y	38:17	2.01	65.2					65.2
13C-1,2,3,7,8,9-HxCDF	2.37e+07	0.49 y	39:44	2.03	63.7					63.7
13C-1,2,3,4,6,7,8-HpCDF	1.19e+07	0.49 y	42:14	1.11	58.8					58.8
13C-1,2,3,4,7,8,9-HpCDF	9.68e+06	0.48 y	45:05	0.80	65.9					65.9
13C-OCDF	2.71e+07	0.95 y	50:06	1.08	137					68.5
37Cl-2,3,7,8-TCDD	5.80e+06		27:20	0.69	29.4					73.6
13C-1,2,3,4-TCDD	2.87e+07	0.77 y	26:44	-	63.9					
13C-1,2,3,4-TCDF	4.89e+07	0.88 y	25:28	-	67.6					
13C-1,2,3,7,8,9-HxCDD	1.83e+07	1.26 y	39:09	-	66.3					
Total Tetra-Dioxins	2.73e+06		22:45	1.11	11.9		2.50	-	*	25
Total Penta-Dioxins	1.17e+07		31:25	1.10	53.9		2.50	-	*	16
Total Hexa-Dioxins	3.11e+07		36:06	1.37	164		2.50	-	*	20
Total Hepta-Dioxins	8.20e+06		41:33	1.45	49.8		2.50	-	*	31
Total Tetra-Furans	4.71e+06		22:45	1.50	9.40		2.50	-	*	37
1st Fn. Tot Penta-Furans	2.60e+05		22:43	0.94	0.890		2.50	-	*	PeCDF 37
Total Penta-Furans	2.92e+07		30:11	0.94	100		2.50	-	*	101 19
Total Hexa-Furans	5.21e+07		35:11	0.91	227		2.50	-	*	19
Total Hepta-Furans	1.72e+07		42:16	1.38	116		2.50	-	*	35

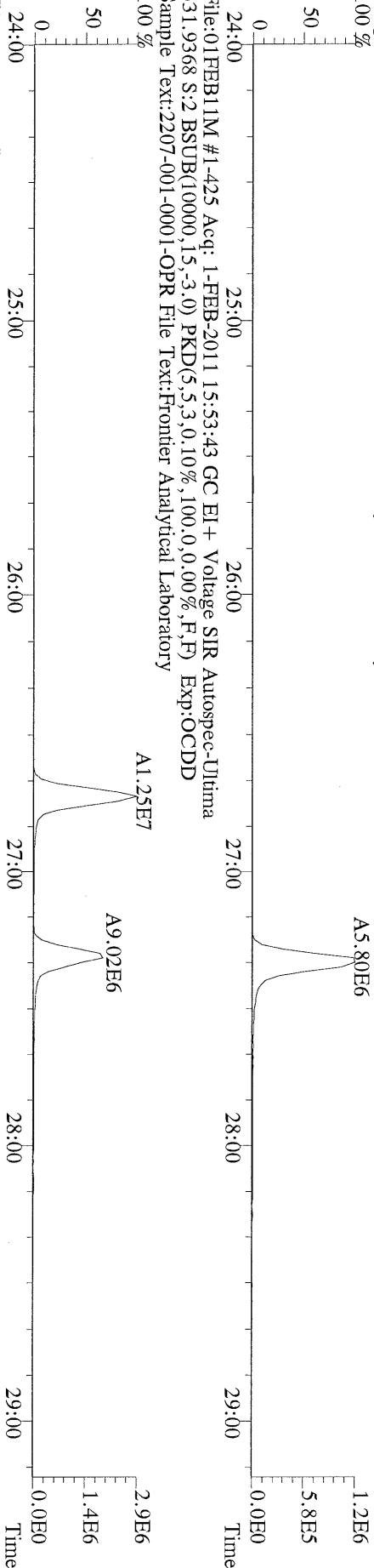
Analyst: 

Date: 

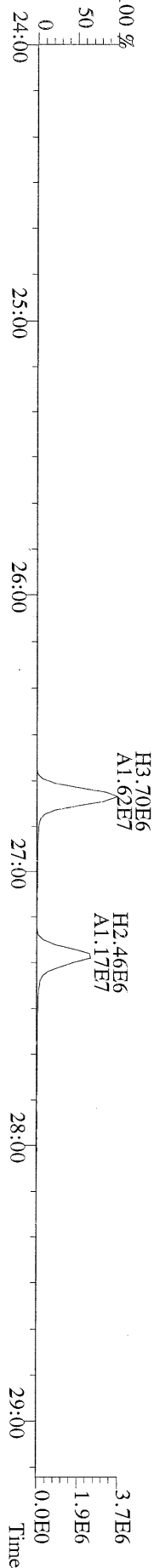
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319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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100 %



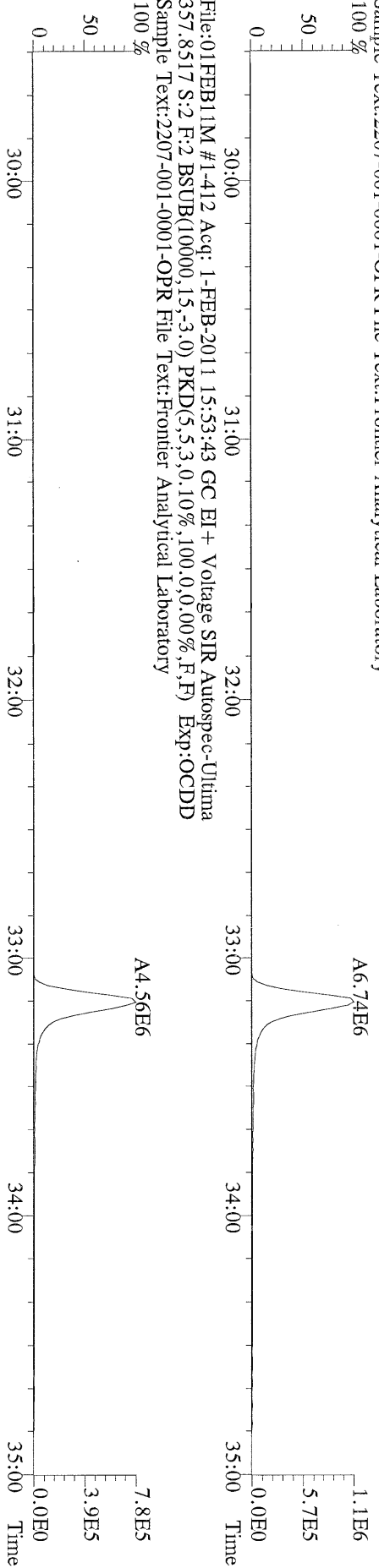
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Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



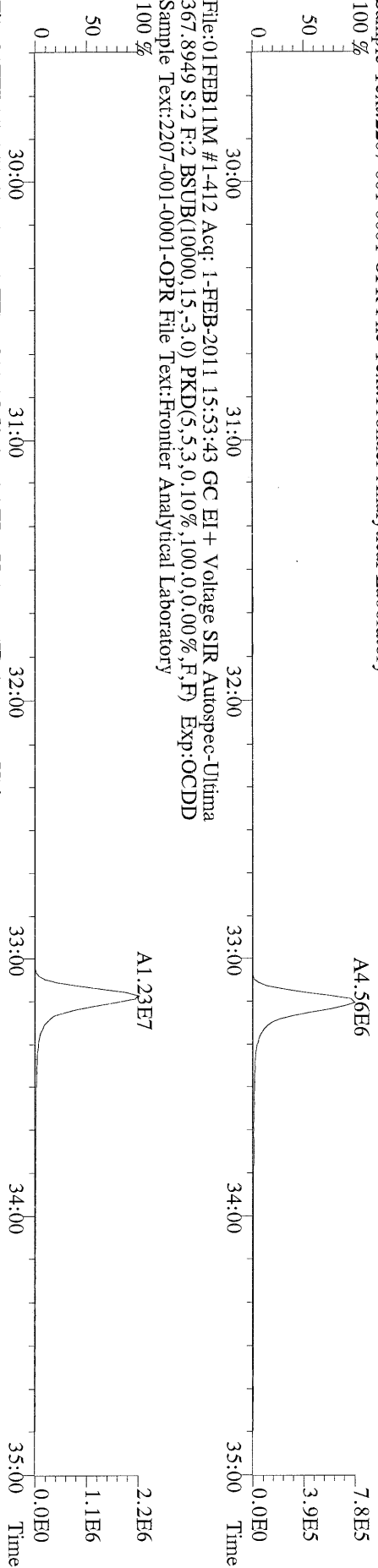
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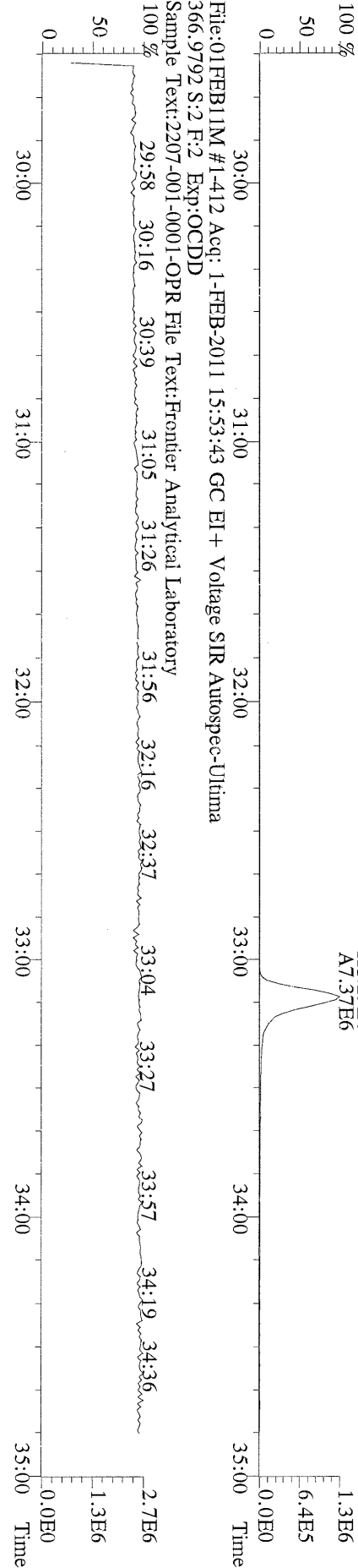
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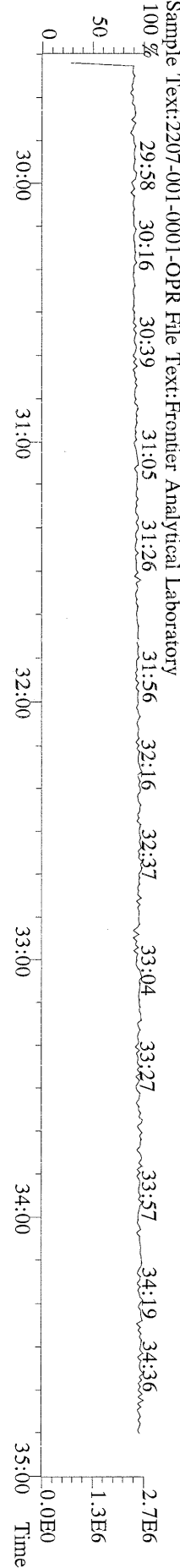
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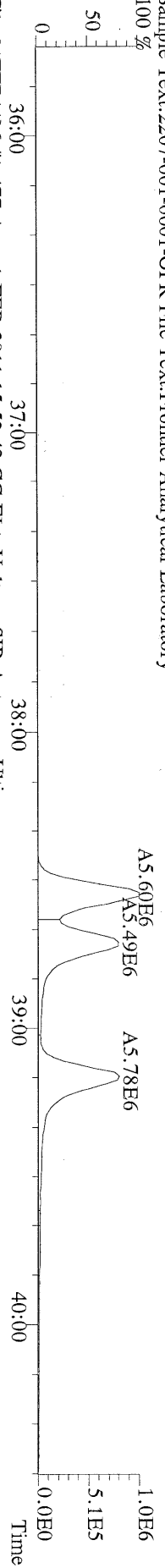
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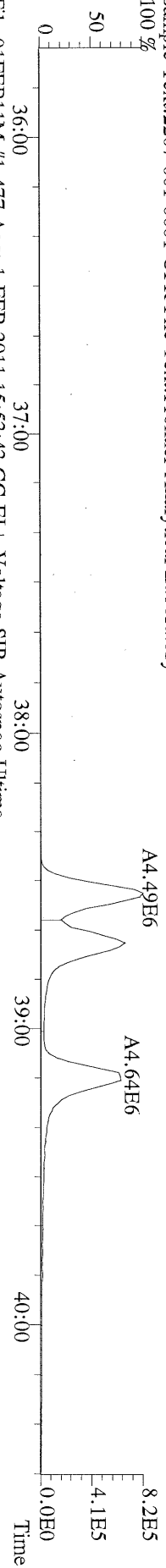
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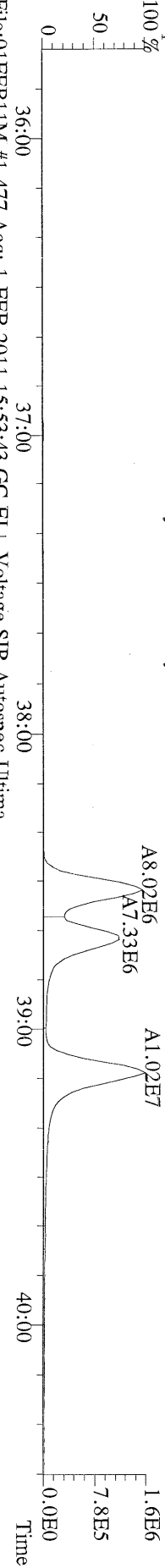
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Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



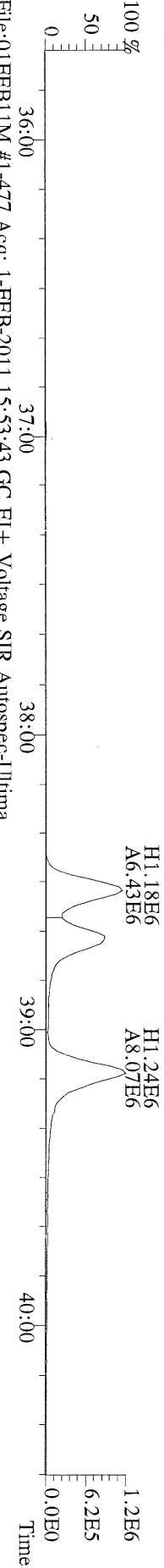
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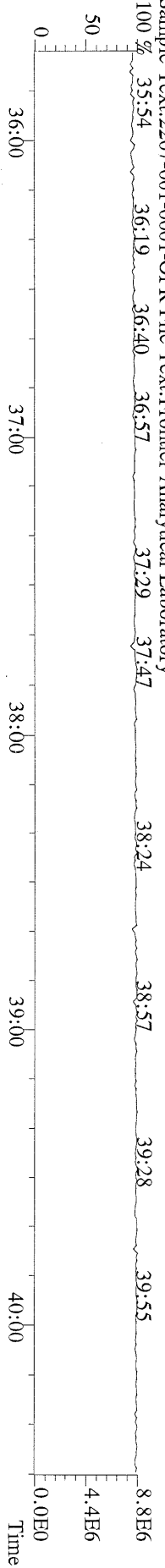
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Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



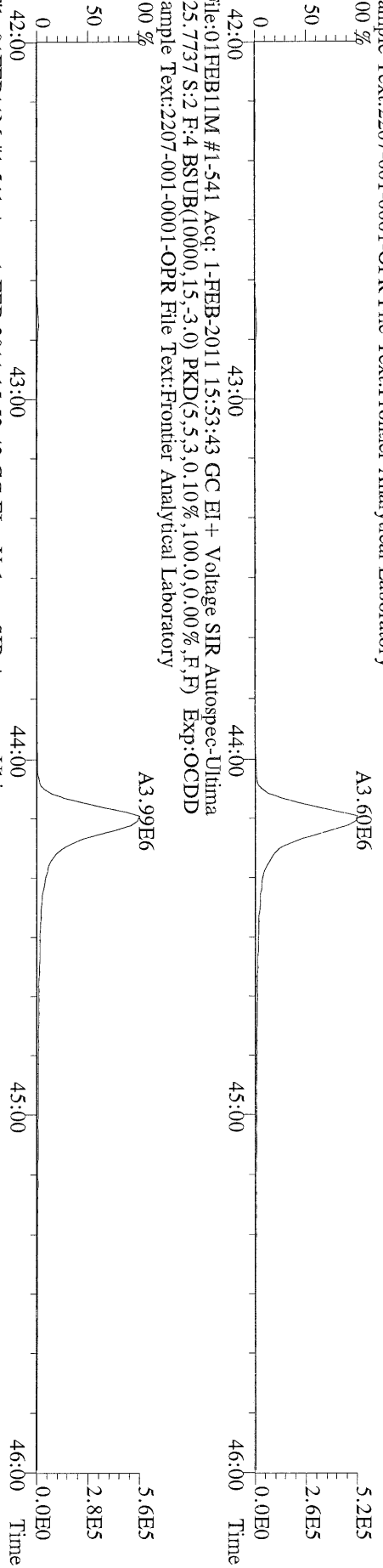
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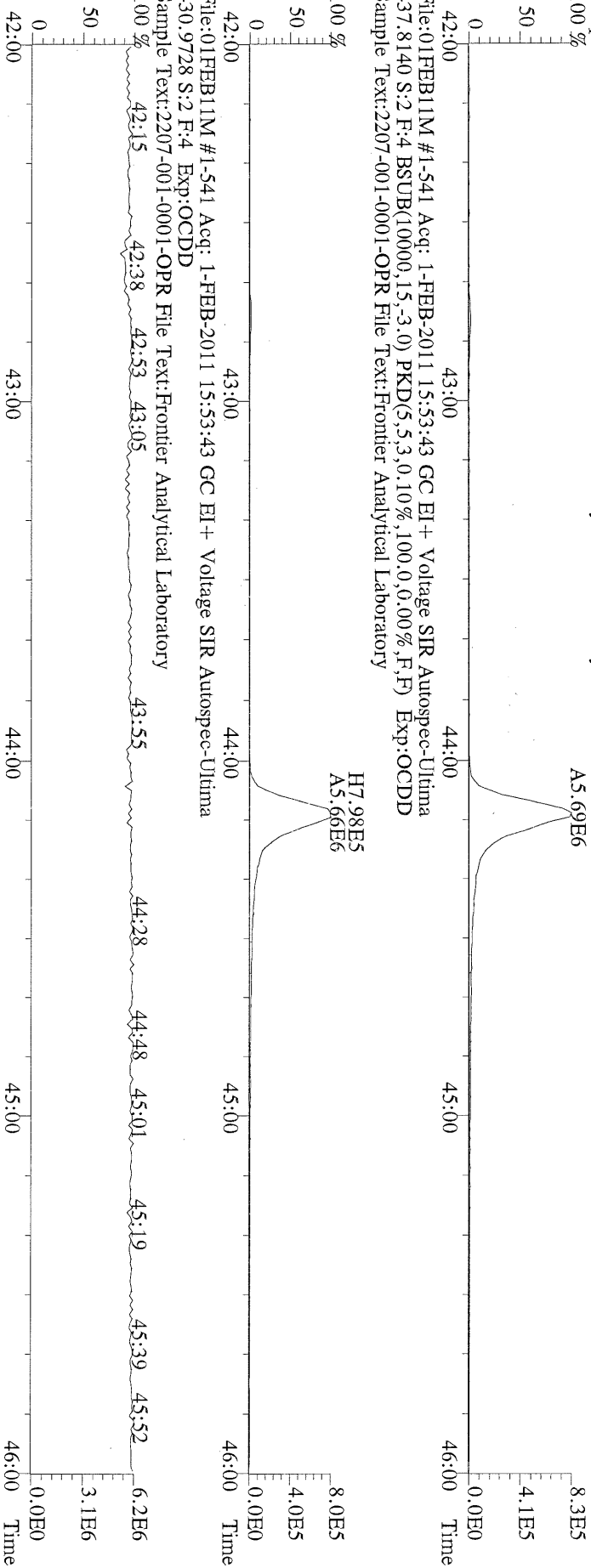
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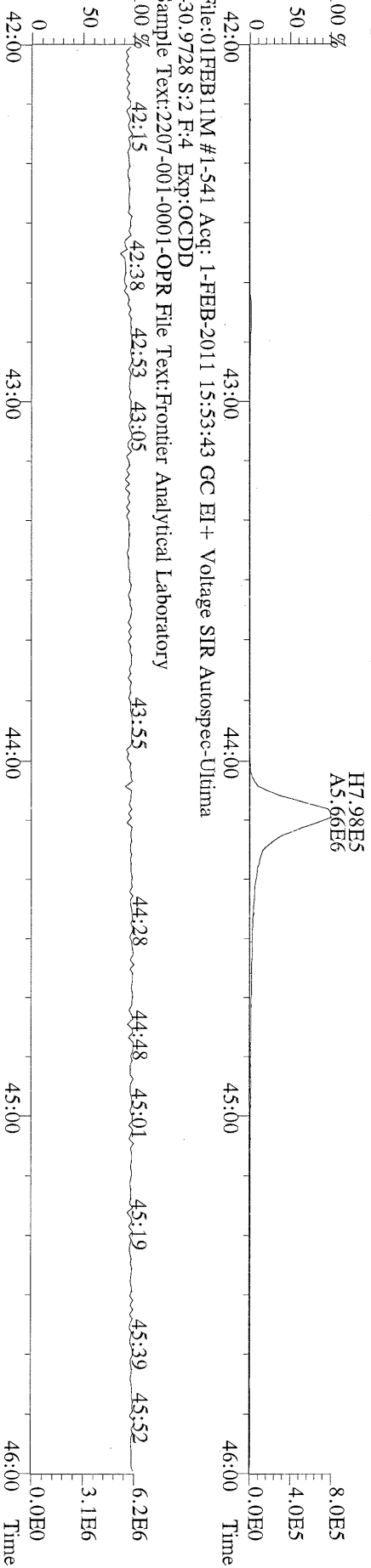
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100 %



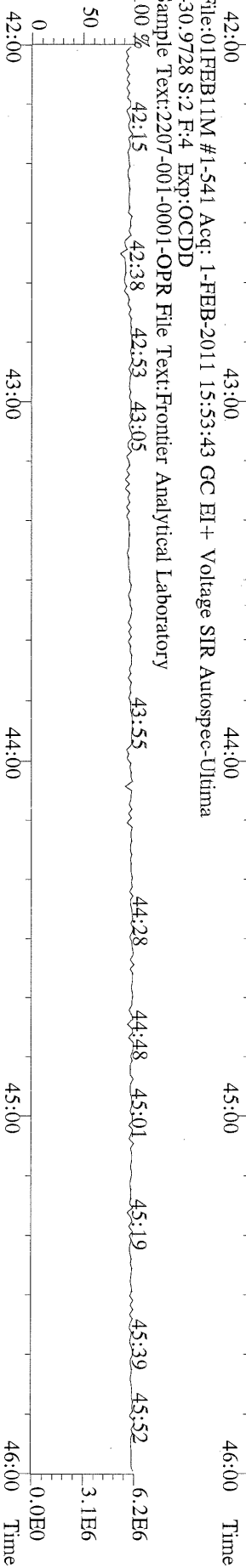
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



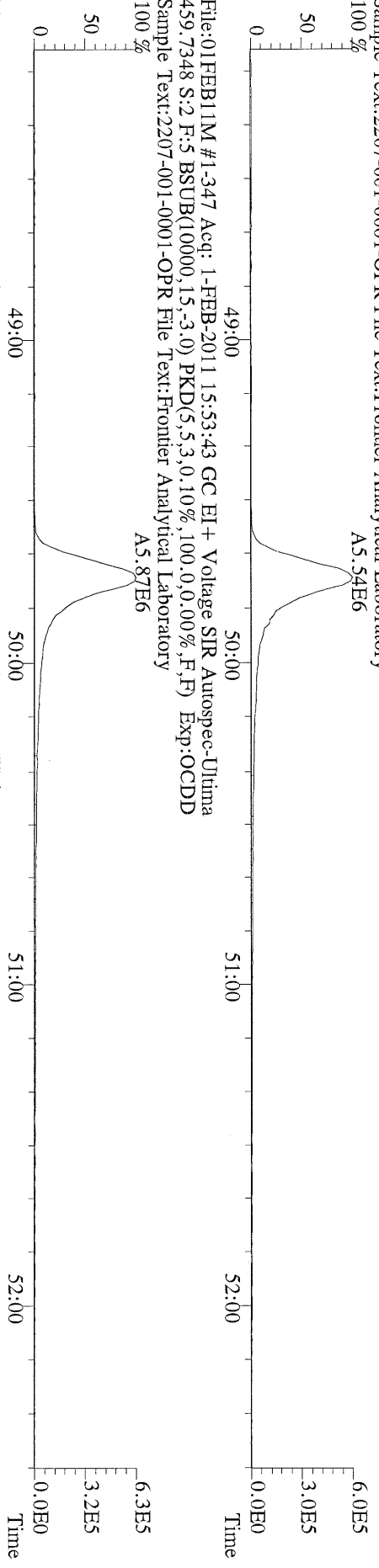
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100 %



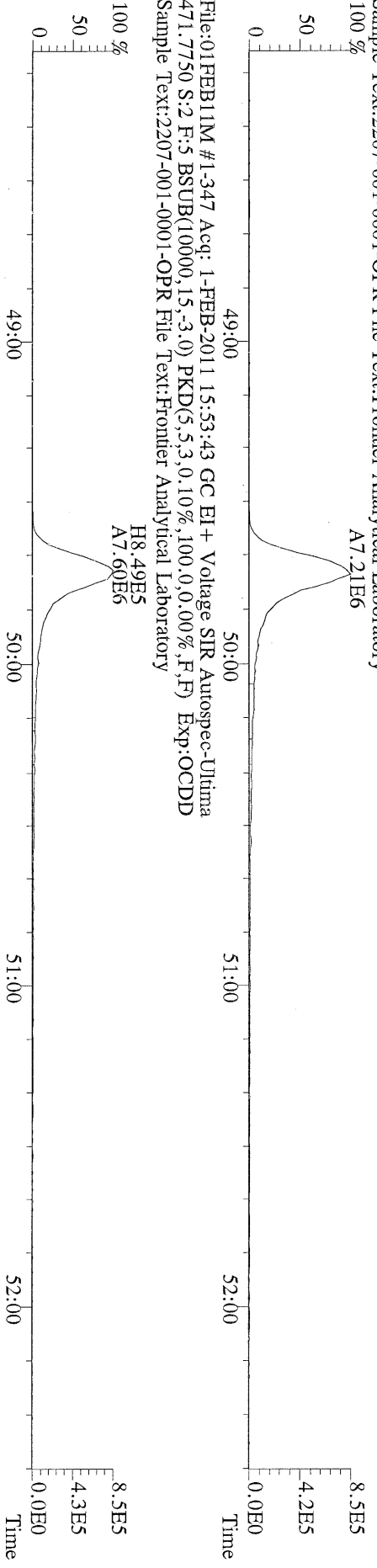
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430.9728 S:2 F:4 Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



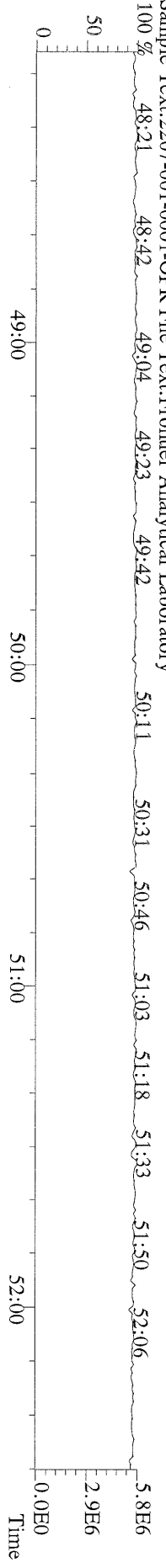
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457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
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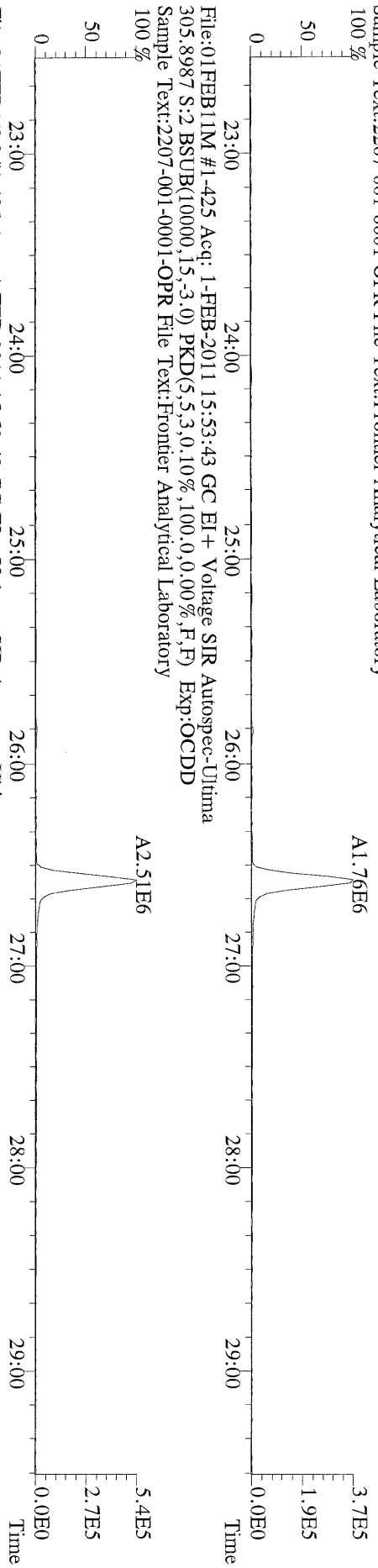
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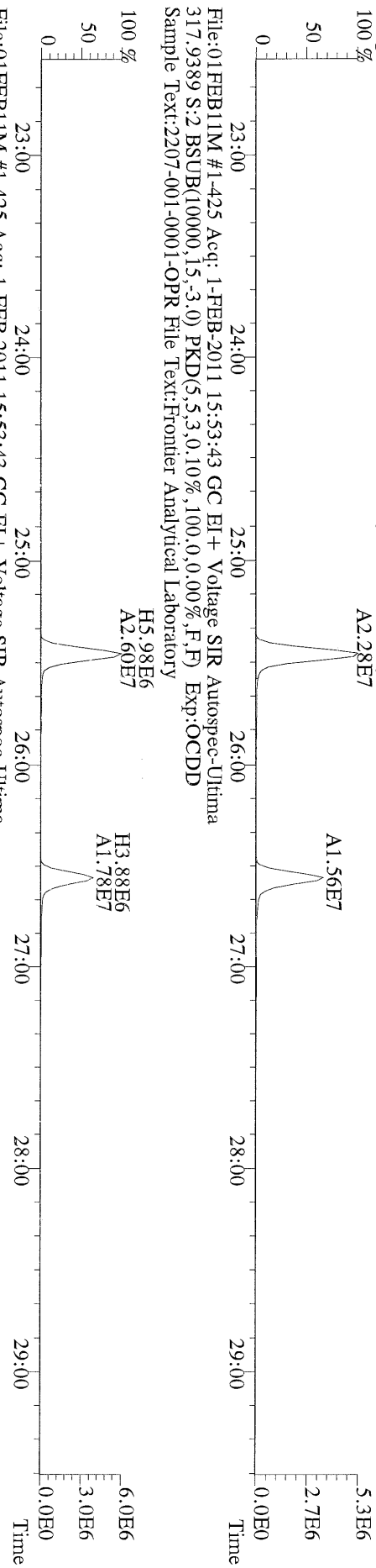
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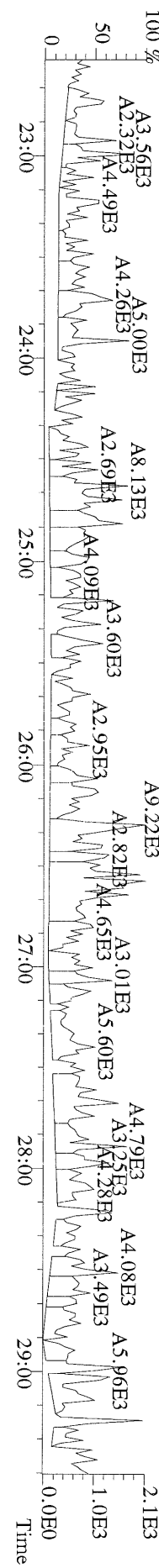
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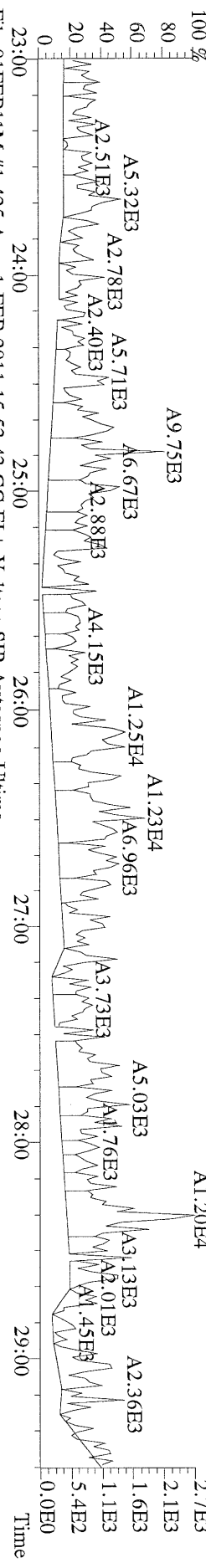
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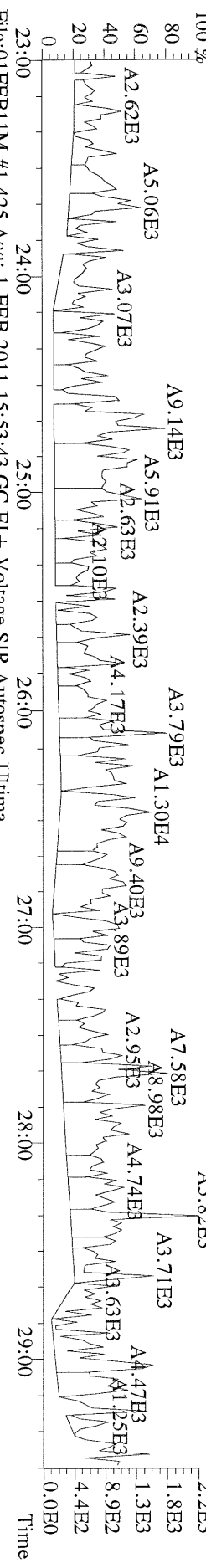
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375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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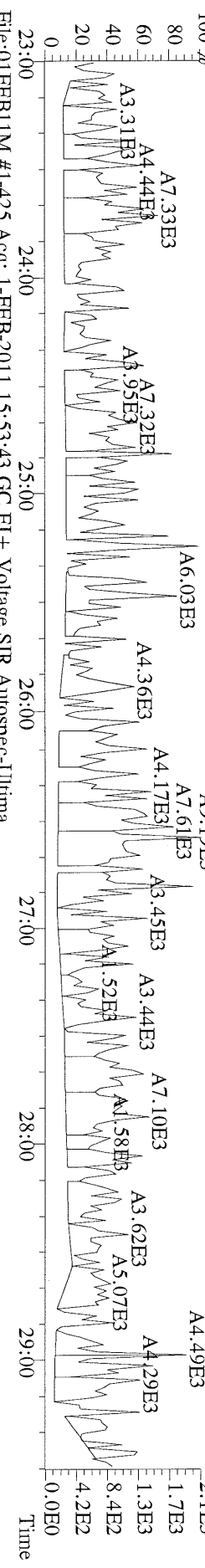
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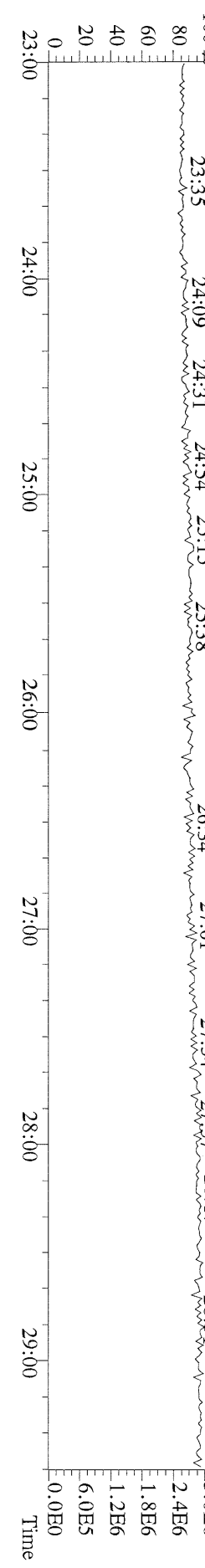
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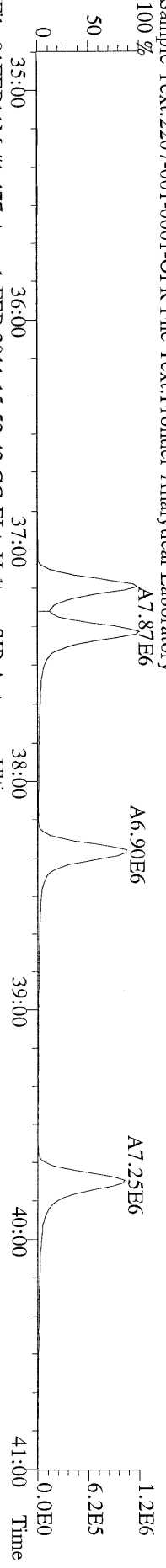
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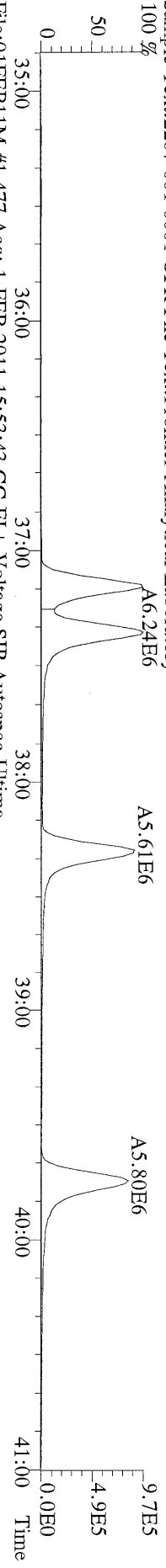
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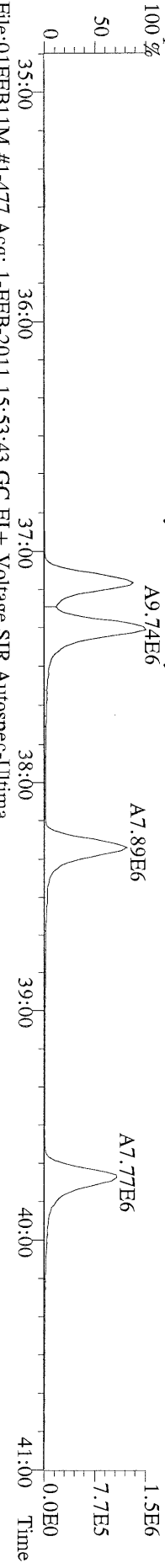
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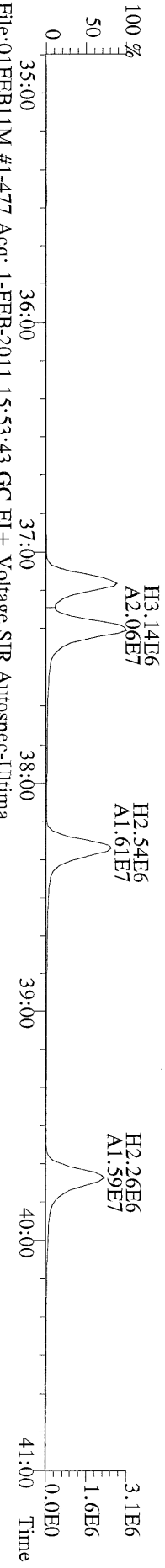
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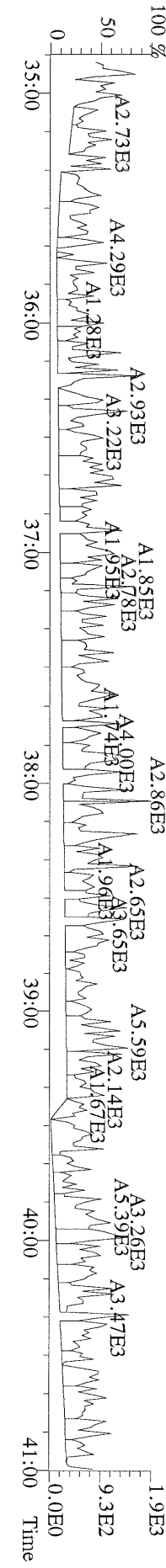
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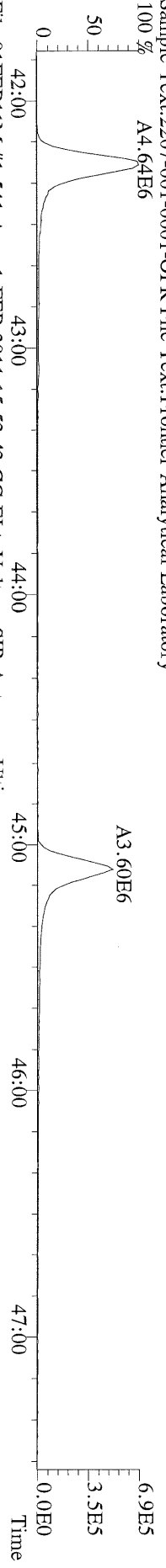
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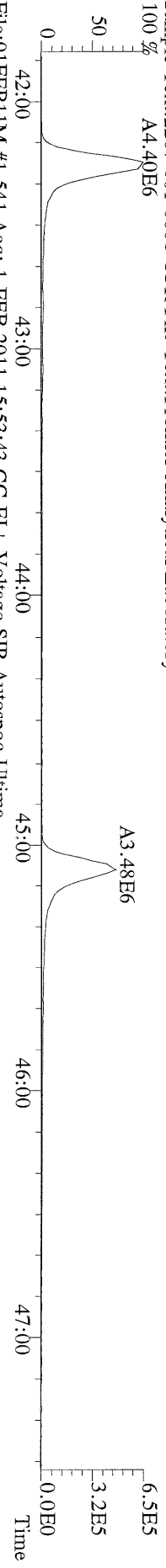
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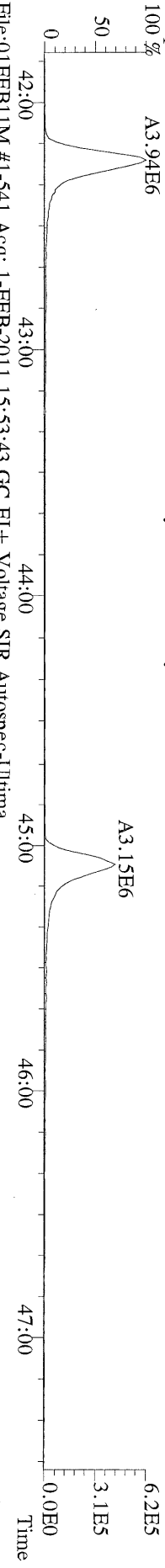
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407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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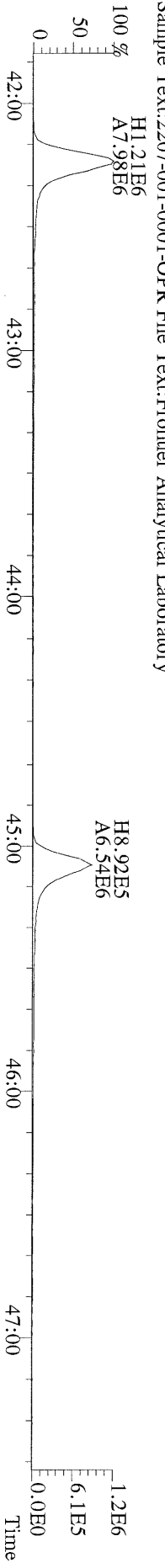
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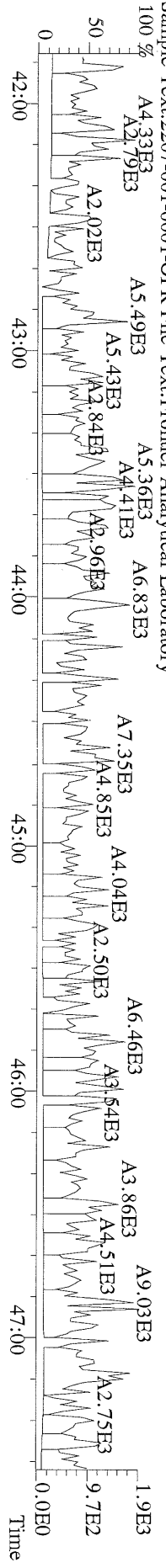
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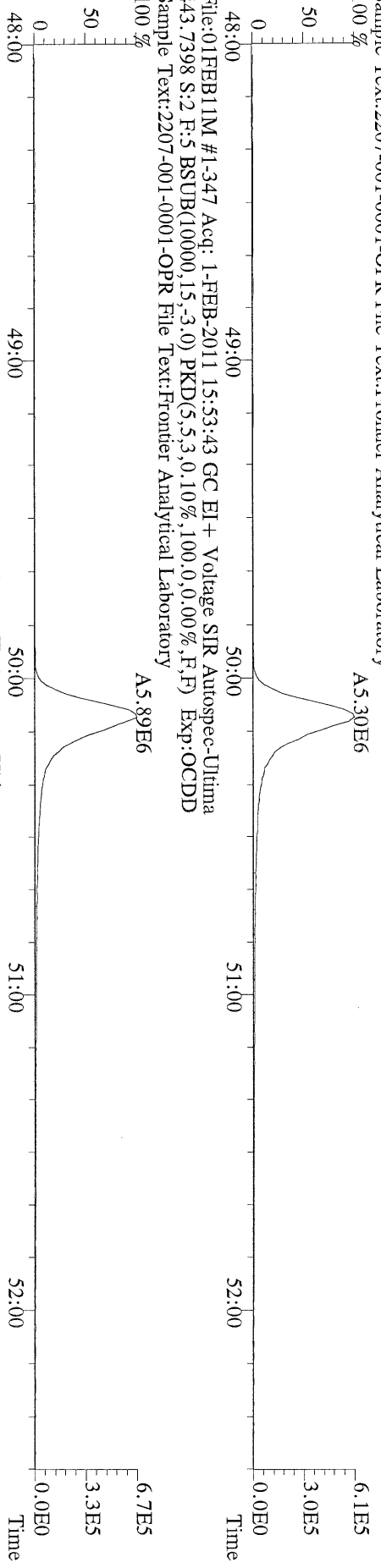
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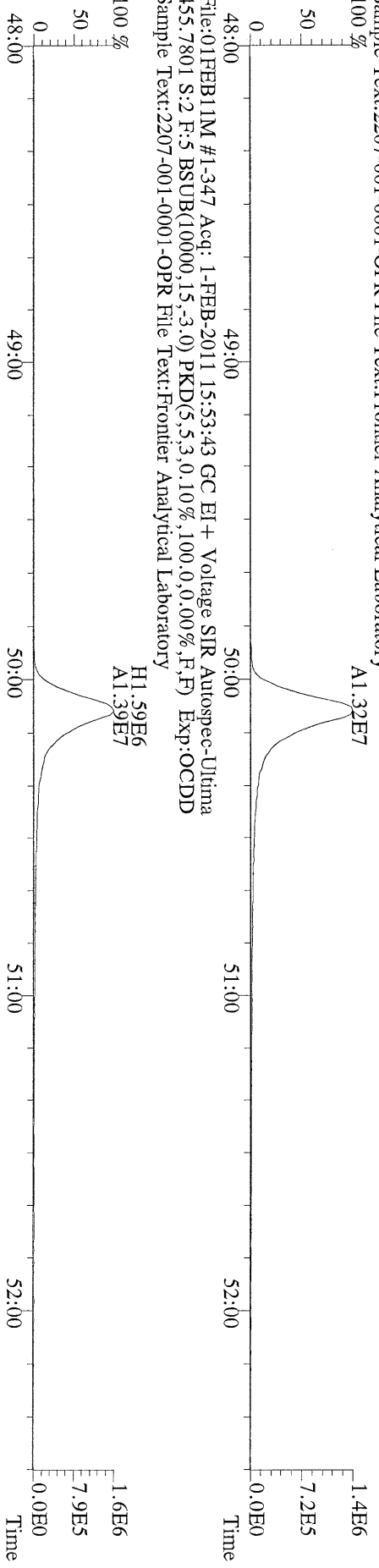
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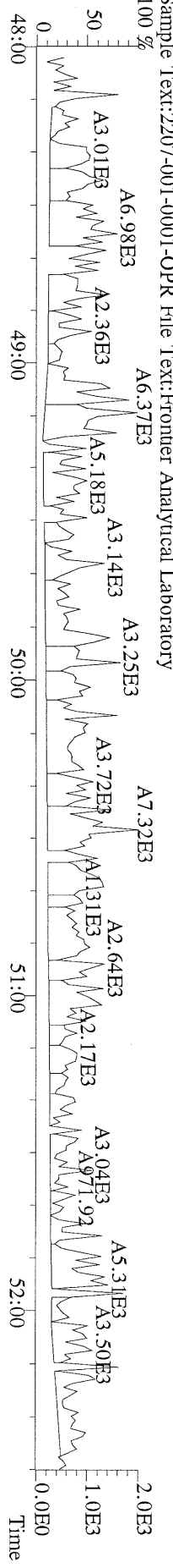
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Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory

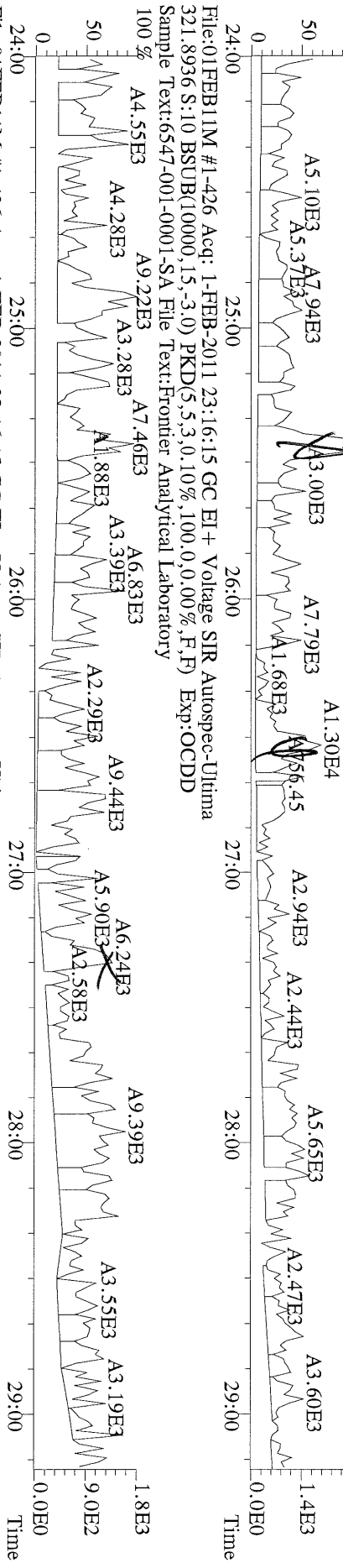


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	970	739	1.81	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	1100	944	2.77	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1070	1060	2.82	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1070	1060	3.60	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1070	1060	3.22	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	1280	1240	4.89	
OCDD	1.53e+05	0.82 y	49:42	1.43	26.3	J	2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1240	1140	1.15	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	944	1040	1.95	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	944	1040	1.99	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	868	980	2.29	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	868	980	2.27	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	868	980	2.40	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	868	980	2.58	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	782	718	2.52	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	782	718	3.76	
OCDF	*	* n	NotFnd	0.79	*		2.50	618	563	4.68	
										Rec	
13C-2,3,7,8-TCDD	1.93e+07	0.79 y	27:17	1.02	1320					66.6	
13C-1,2,3,7,8-PeCDD	1.86e+07	1.71 y	33:07	0.84	1550					78.0	
13C-1,2,3,4,7,8-HxCDD	1.48e+07	1.21 y	38:30	1.07	1450					72.7	
13C-1,2,3,6,7,8-HxCDD	1.38e+07	1.29 y	38:40	1.01	1430					72.1	
13C-1,2,3,4,6,7,8-HpCDD	1.23e+07	0.97 y	44:07	0.86	1500					75.6	
13C-OCDD	1.61e+07	0.99 y	49:41	0.55	3090					77.7	
13C-2,3,7,8-TCDF	3.10e+07	0.88 y	26:33	0.99	1310					66.1	
13C-1,2,3,7,8-PeCDF	2.92e+07	1.70 y	31:24	0.84	1470					74.0	
13C-2,3,4,7,8-PeCDF	2.88e+07	1.68 y	32:43	0.81	1500					75.3	
13C-1,2,3,4,7,8-HxCDF	2.34e+07	0.49 y	37:07	1.85	1330					66.8	
13C-1,2,3,6,7,8-HxCDF	3.03e+07	0.49 y	37:18	2.54	1250					63.0	
13C-2,3,4,6,7,8-HxCDF	2.53e+07	0.47 y	38:16	2.01	1320					66.3	
13C-1,2,3,7,8,9-HxCDF	2.49e+07	0.50 y	39:42	2.03	1290					64.9	
13C-1,2,3,4,6,7,8-HpCDF	1.37e+07	0.47 y	42:13	1.11	1300					65.4	
13C-1,2,3,4,7,8,9-HpCDF	1.05e+07	0.48 y	45:03	0.80	1370					68.8	
13C-OCDF	2.83e+07	0.91 y	50:04	1.08	2740					69.0	
37Cl-2,3,7,8-TCDD	5.46e+06		27:18	0.69	559					70.2	
13C-1,2,3,4-TCDD	2.83e+07	0.81 y	26:42	-	62.7						
13C-1,2,3,4-TCDF	4.71e+07	0.88 y	25:27	-	64.7						
13C-1,2,3,7,8,9-HxCDD	1.89e+07	1.24 y	39:07	-	68.2						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	970	739	1.81	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	1100	944	2.77	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	1070	1060	3.60	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	1280	1240	4.89	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1240	1140	1.15	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	944	1040	1.99	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	944	1040	1.99	0.00 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	868	980	2.58	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	782	718	3.76	0

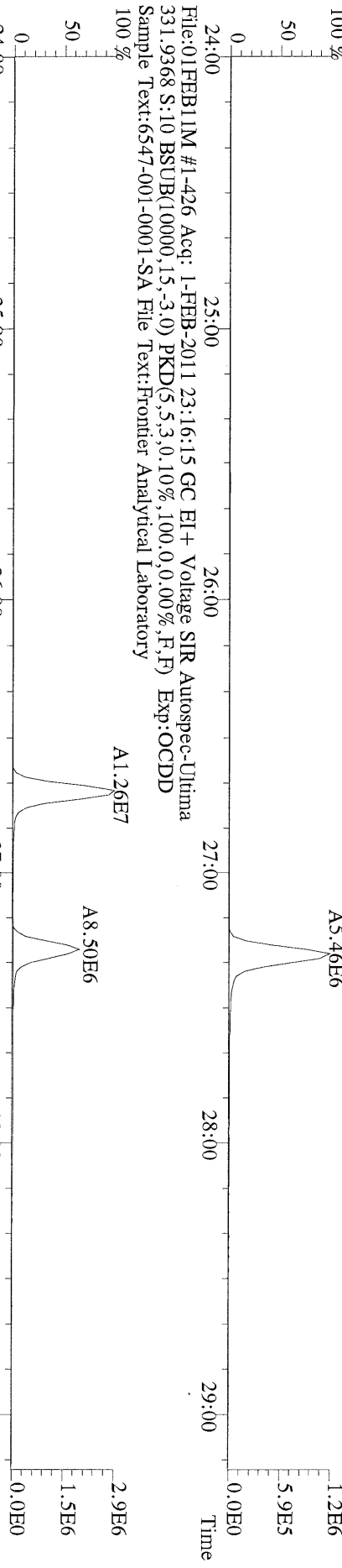
Analyst: 

Date: 2/2/11

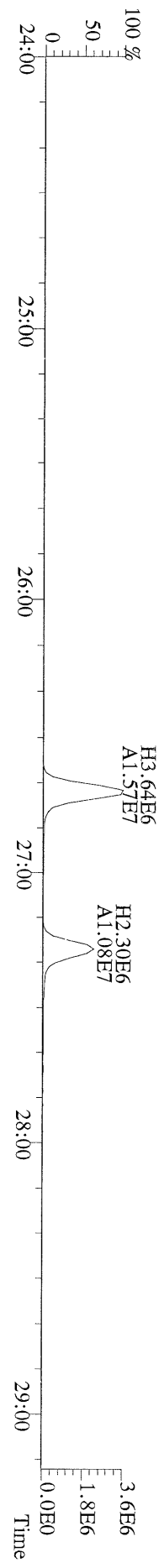
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 319.8965 S:10 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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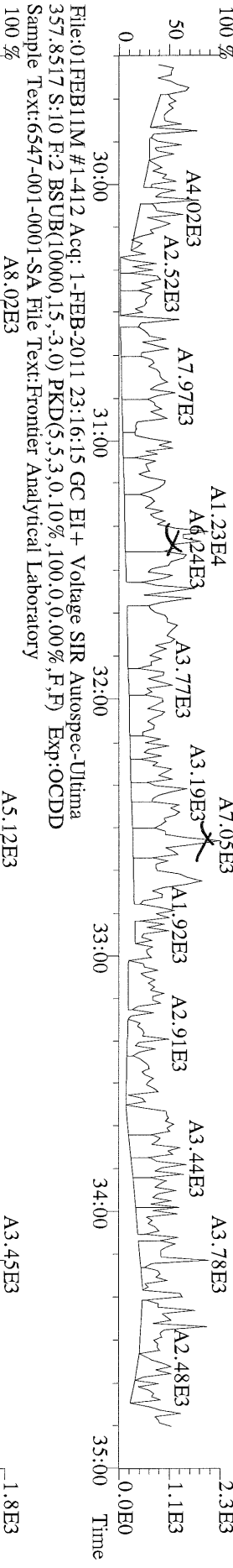
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 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



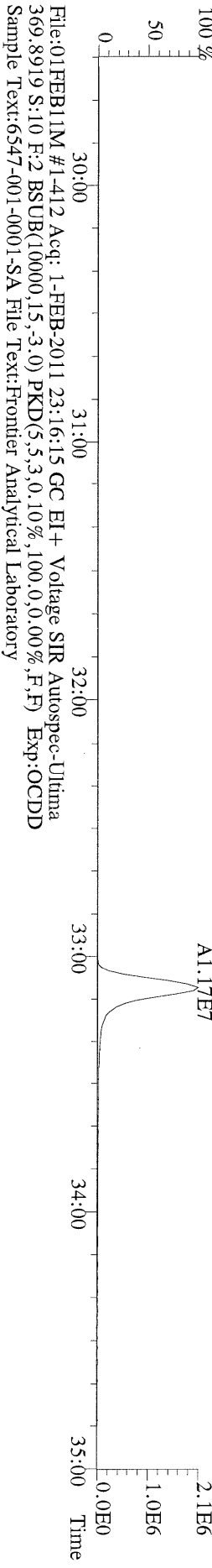
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 333.9339 S:10 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



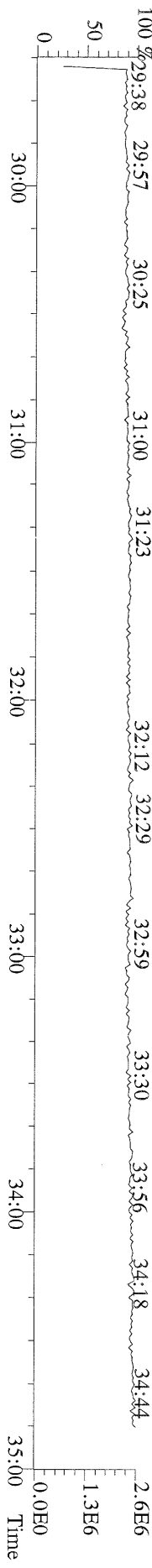
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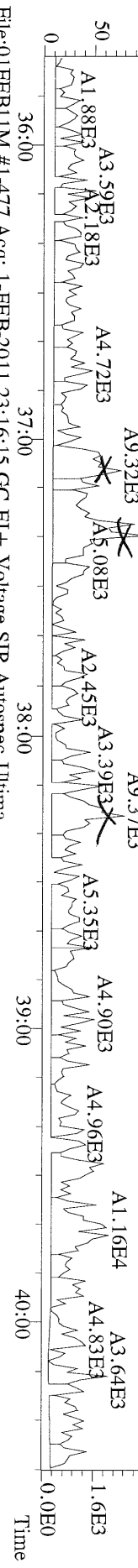
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 367.8949 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
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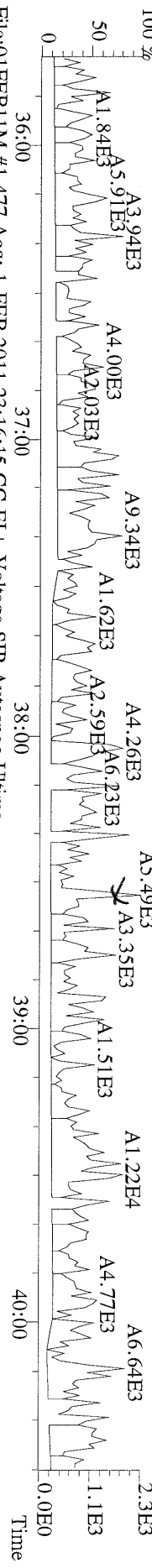
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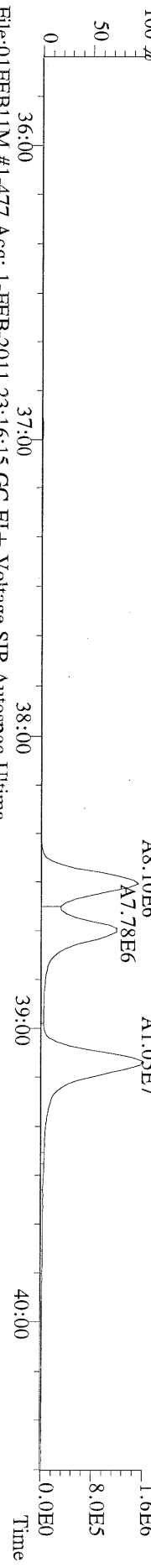
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 389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



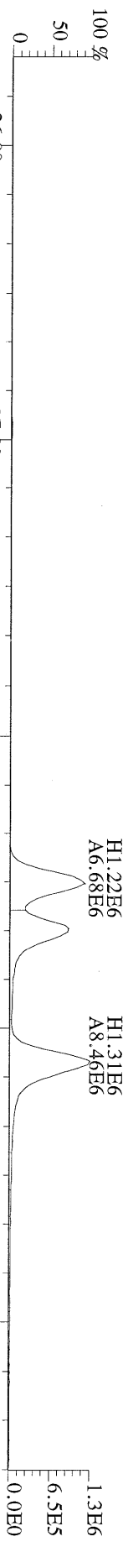
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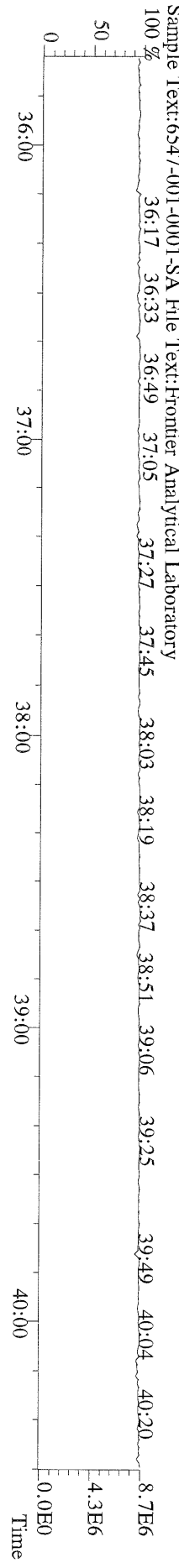
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 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



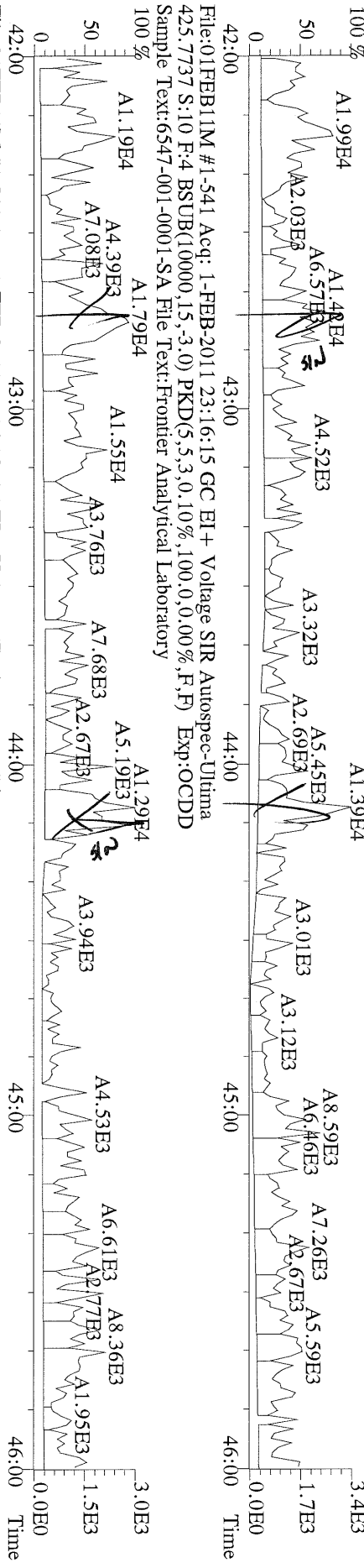
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 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



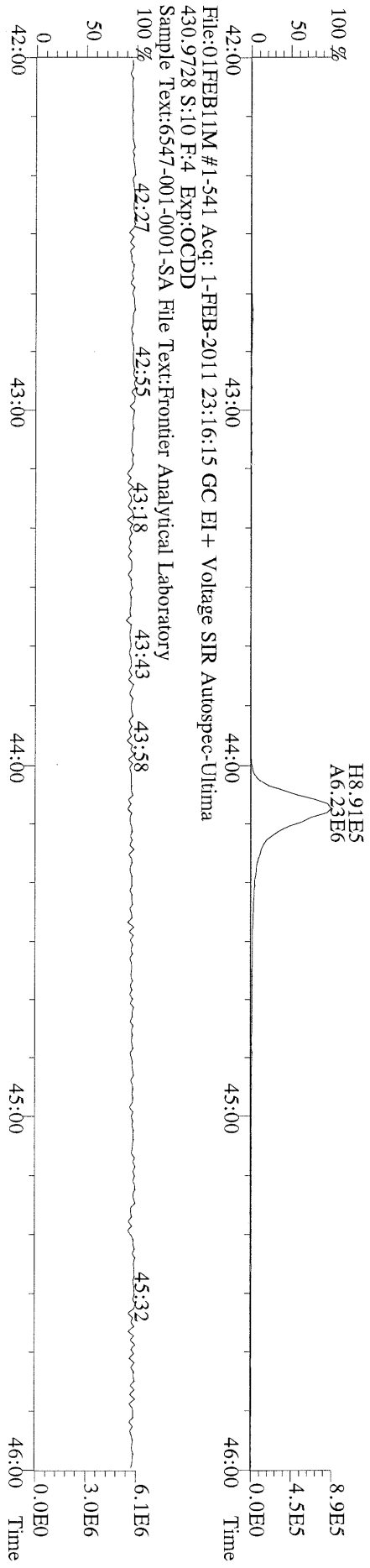
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 380.9760 S:10 F:3 Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-541 Acq: 1-FEB-2011 23:16:15 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:10 F:4 BSTUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory

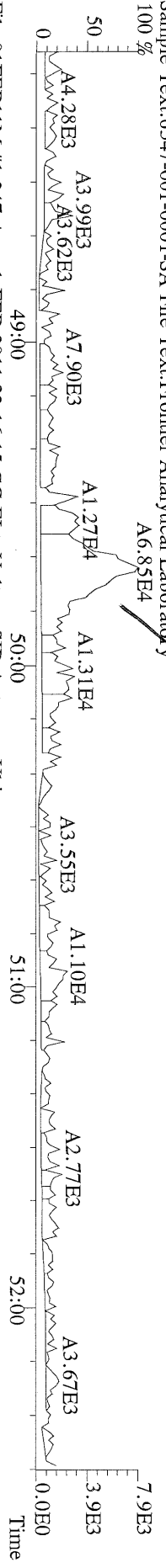


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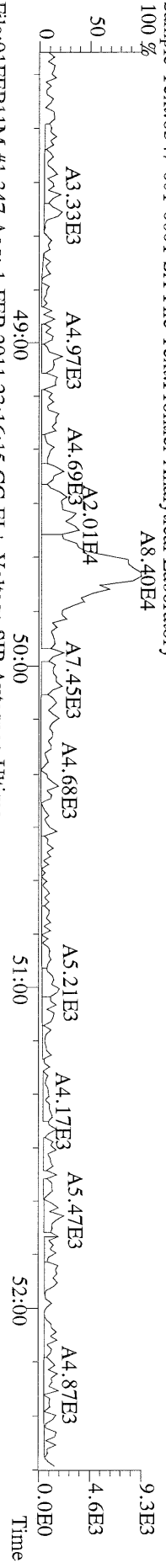


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 430.9728 S:10 F:4 Exp:OCDD
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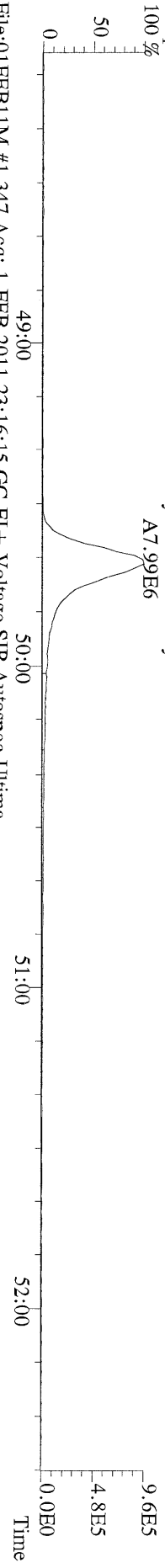
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 457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



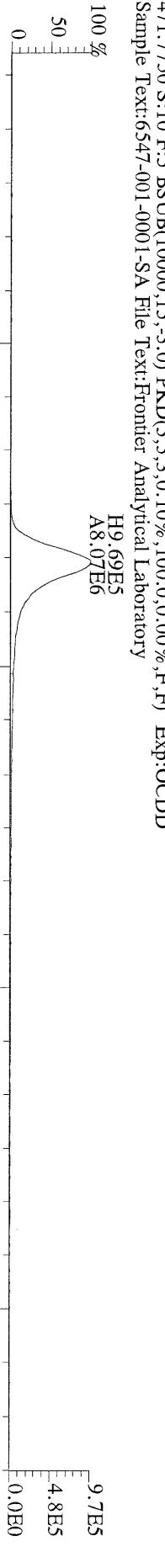
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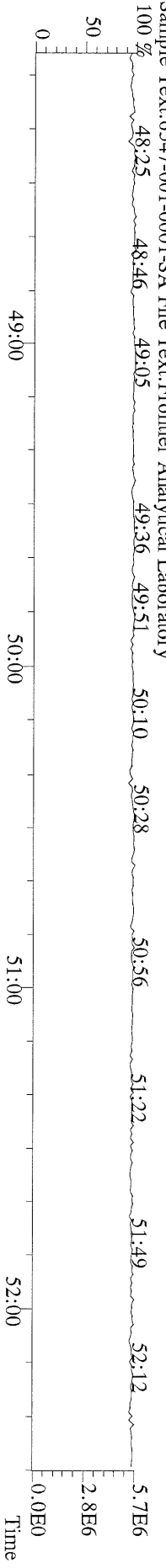
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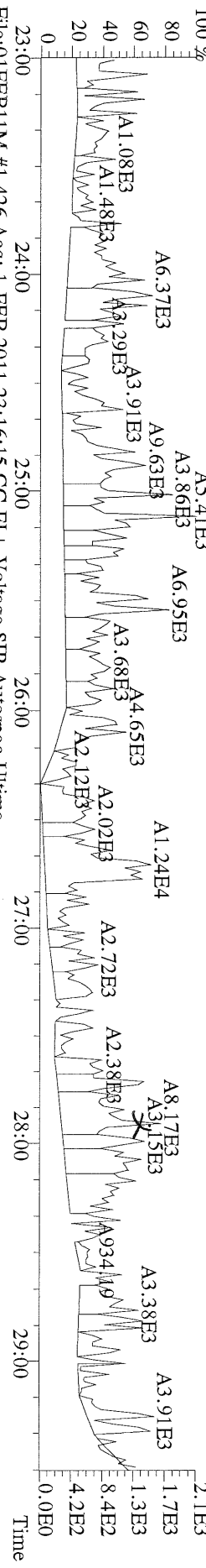
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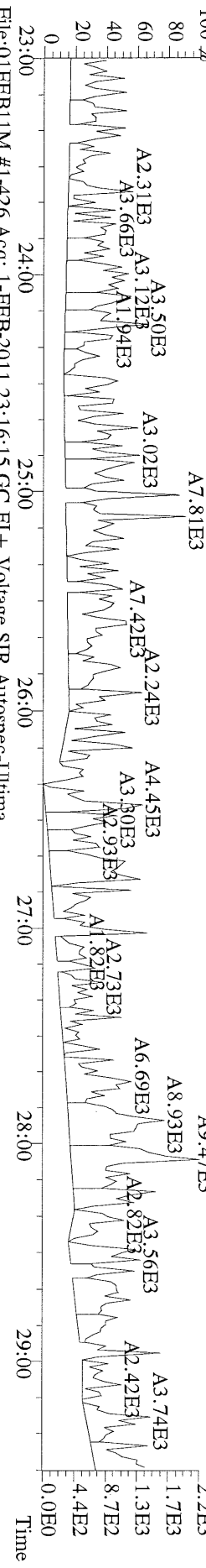
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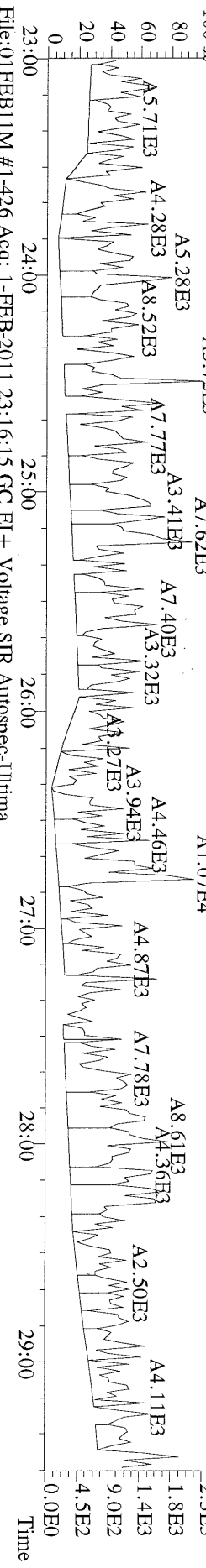
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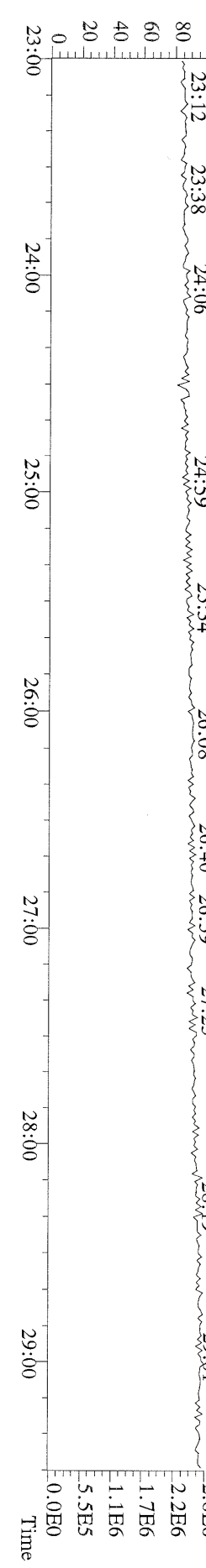
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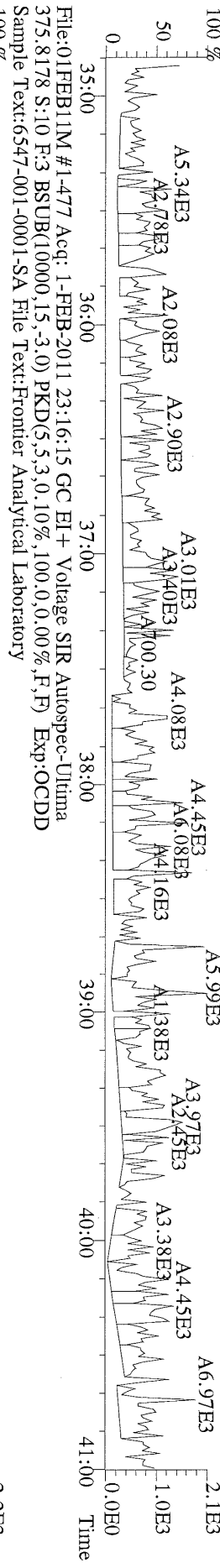
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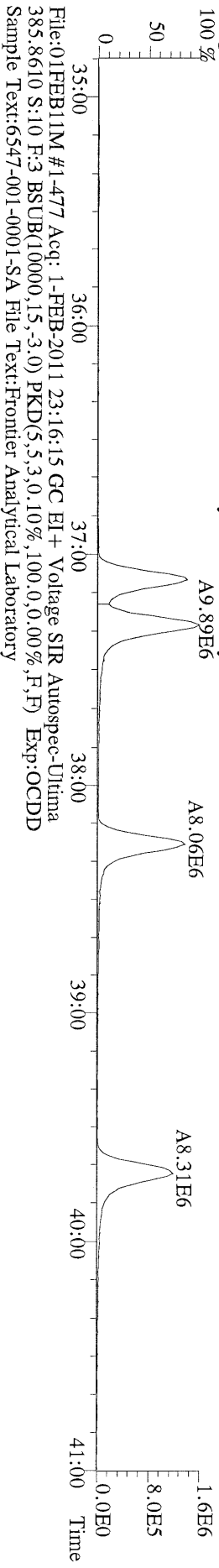
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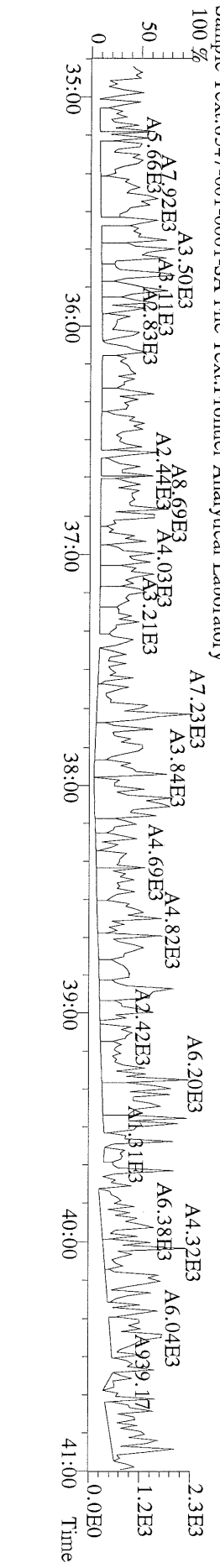
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Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



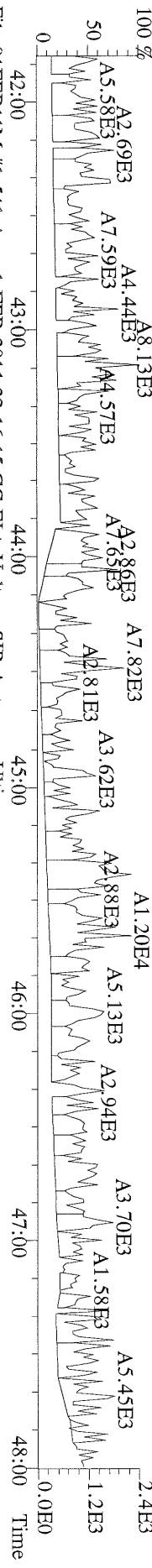
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Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



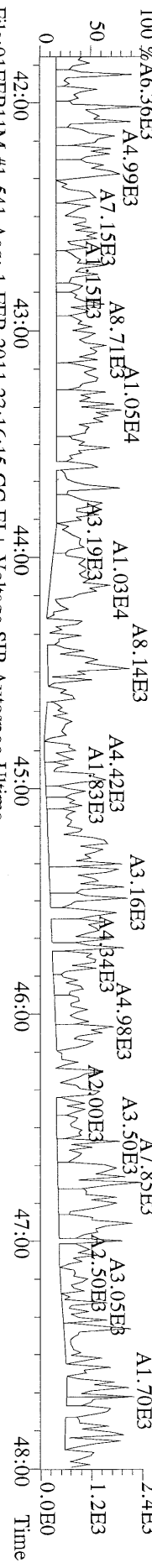
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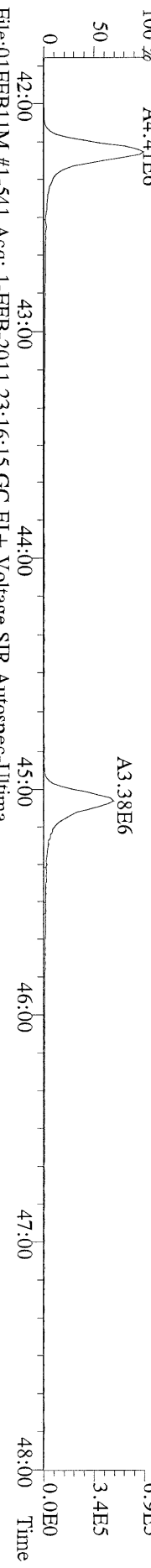
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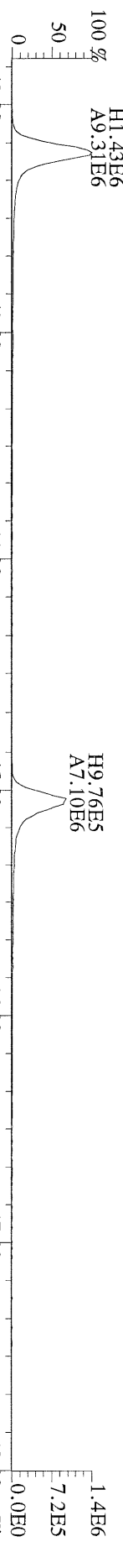
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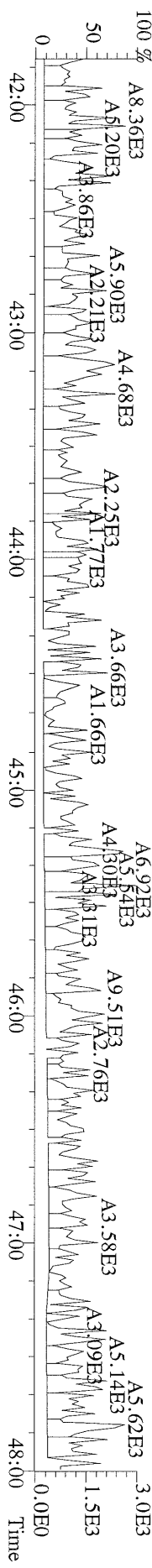
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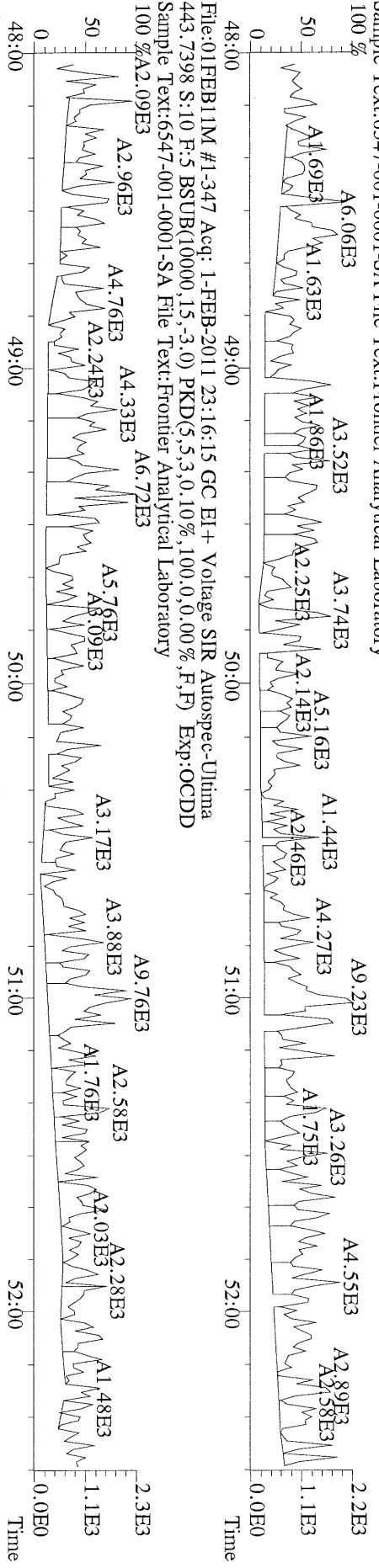
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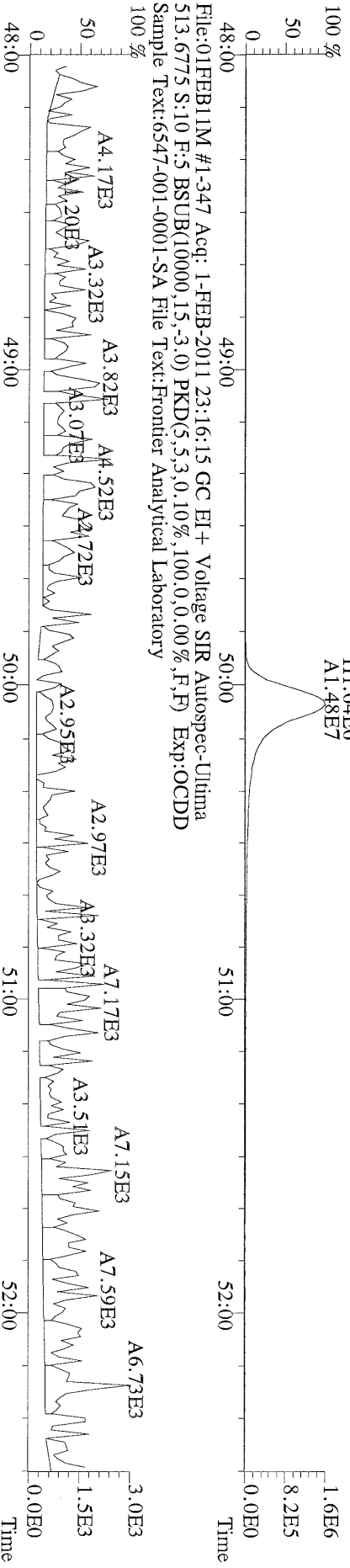
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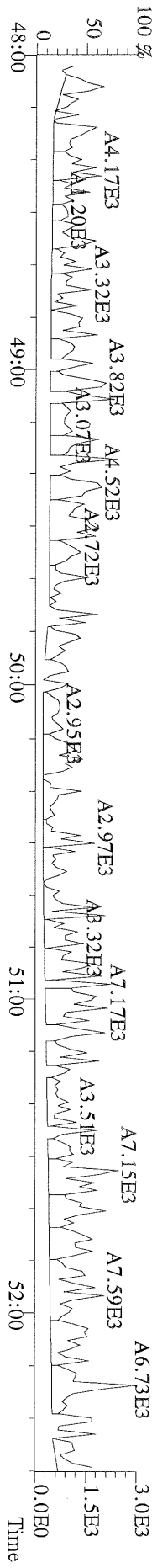
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 441.7428 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



File:01FEBB11M #1-347 Acq: 1-FEB-2011 23:16:15 GC EI+ Voltage SIR Autospec-Utima
 453.7831 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



File:01FEBB11M #1-347 Acq: 1-FEB-2011 23:16:15 GC EI+ Voltage SIR Autospec-Utima
 513.6775 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-001-0001-SA File Text:Frontier Analytical Laboratory



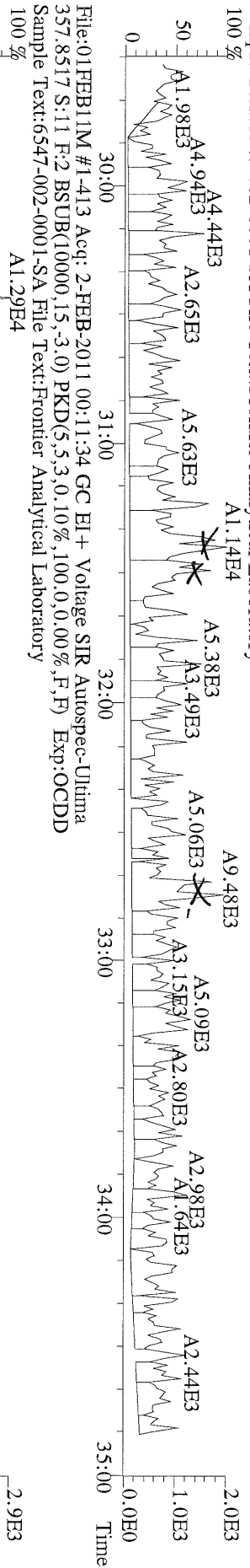
Results: 6547 GC Column: DB5 Amount: 1.043 NATO 1989 Tox: 0.0140 WHO 1998 Tox: 0.00140 WHO 2005 Tox: 0.00420

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	920	944	1.60	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	944	772	1.93	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1010	1070	2.37	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1010	1070	2.93	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1010	1070	2.66	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	984	968	3.08	
OCDD	9.97e+04	1.01 y	49:41	1.43	14.0	J	2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1160	1350	0.982	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	804	820	1.29	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	804	820	1.34	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	988	944	2.02	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	988	944	2.01	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	988	944	2.19	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	988	944	2.30	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	1010	960	2.84	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	1010	960	4.23	
OCDF	*	* n	NotFnd	0.79	*		2.50	820	832	5.68	
13C-2,3,7,8-TCDD	2.36e+07	0.78 y	27:18	1.02	1600					83.2	
13C-1,2,3,7,8-PeCDD	2.20e+07	1.76 y	33:08	0.84	1810					94.5	
13C-1,2,3,4,7,8-HxCDD	1.66e+07	1.24 y	38:31	1.07	1610					84.0	
13C-1,2,3,6,7,8-HxCDD	1.57e+07	1.25 y	38:40	1.01	1610					84.1	
13C-1,2,3,4,6,7,8-HpCDD	1.39e+07	0.97 y	44:08	0.86	1690					88.2	
13C-OCDD	1.90e+07	0.99 y	49:41	0.55	3620					94.5	
13C-2,3,7,8-TCDF	3.68e+07	0.88 y	26:32	0.99	1560					81.5	
13C-1,2,3,7,8-PeCDF	3.49e+07	1.70 y	31:23	0.84	1760					91.9	
13C-2,3,4,7,8-PeCDF	3.37e+07	1.69 y	32:44	0.81	1750					91.3	
13C-1,2,3,4,7,8-HxCDF	2.73e+07	0.49 y	37:07	1.85	1530					79.9	
13C-1,2,3,6,7,8-HxCDF	3.56e+07	0.47 y	37:19	2.54	1460					76.3	
13C-2,3,4,6,7,8-HxCDF	2.85e+07	0.50 y	38:15	2.01	1470					76.7	
13C-1,2,3,7,8,9-HxCDF	2.77e+07	0.48 y	39:42	2.03	1420					74.1	
13C-1,2,3,4,6,7,8-HpCDF	1.52e+07	0.49 y	42:13	1.11	1430					74.5	
13C-1,2,3,4,7,8,9-HpCDF	1.19e+07	0.49 y	45:03	0.80	1540					80.1	
13C-OCDF	3.25e+07	0.91 y	50:04	1.08	3130					81.5	
37Cl-2,3,7,8-TCDD	6.95e+06		27:19	0.69	701					91.4	
13C-1,2,3,4-TCDD	2.77e+07	0.79 y	26:42	-	59.1						
13C-1,2,3,4-TCDF	4.54e+07	0.87 y	25:27	-	60.2						
13C-1,2,3,7,8,9-HxCDD	1.84e+07	1.27 y	39:07	-	64.1						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	920	944	1.60	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	944	772	1.93	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	1010	1070	2.93	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	984	968	3.08	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1160	1350	0.982	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	804	820	1.34 PeCDF	0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	804	820	1.34 *	0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	988	944	2.30	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	1010	960	4.23	0

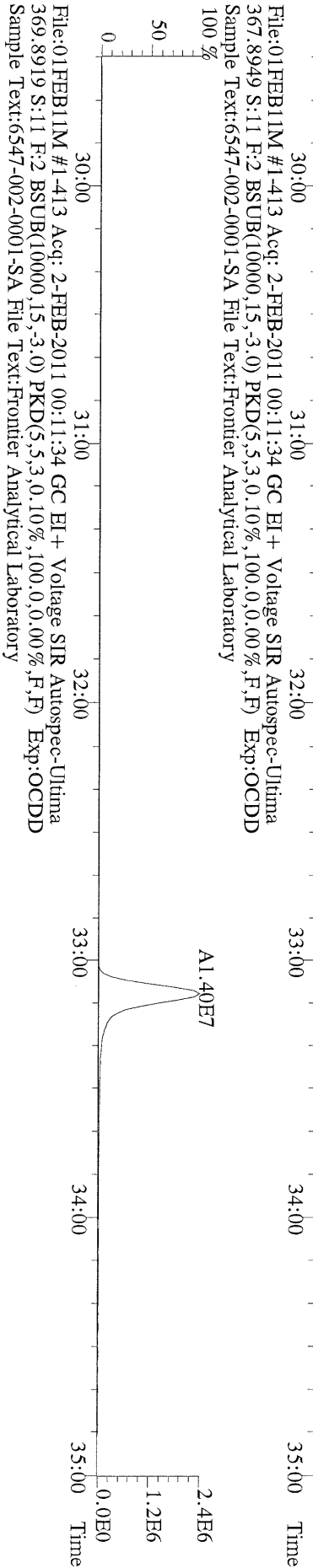
Analyst: 

Date: 2/11

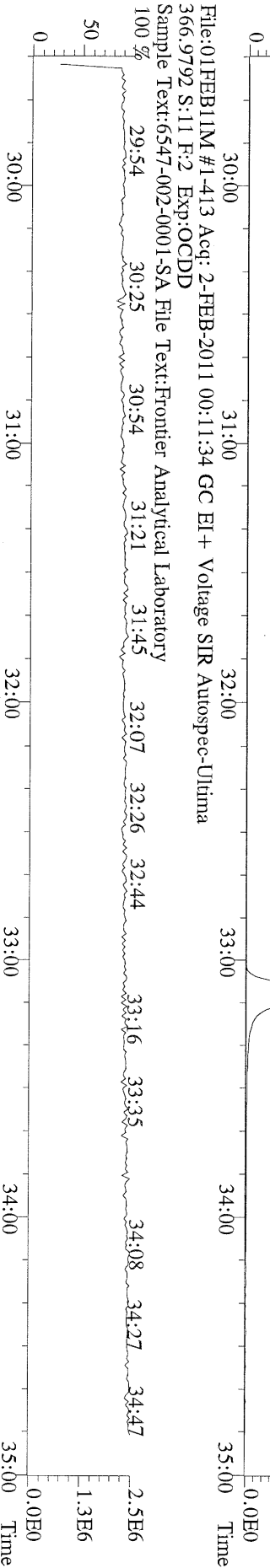
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355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



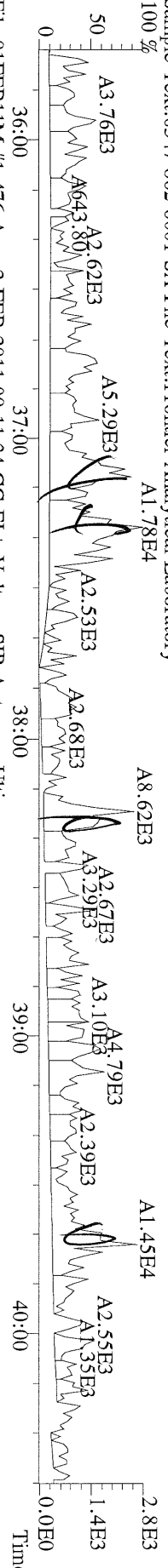
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367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



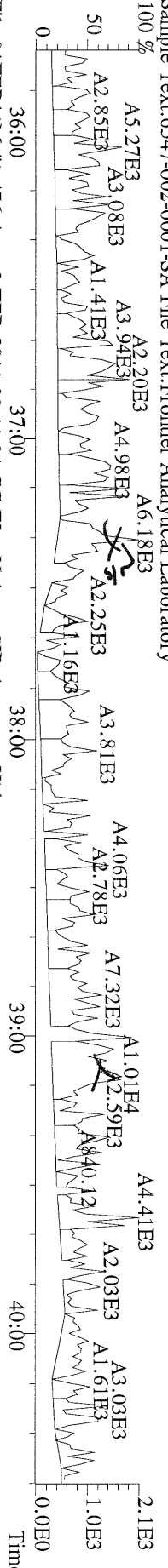
File:01FEB11M #1-413 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:11 F:2 Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



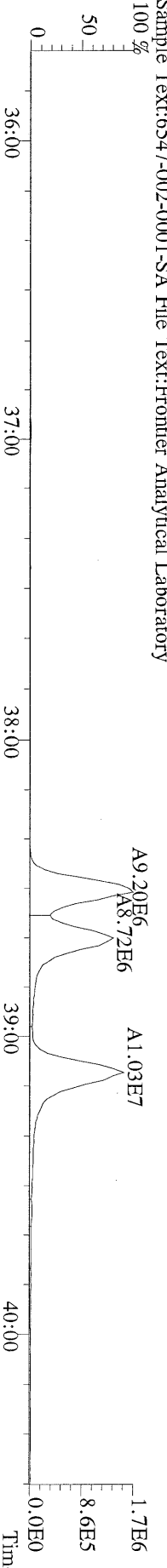
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 389.8156 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



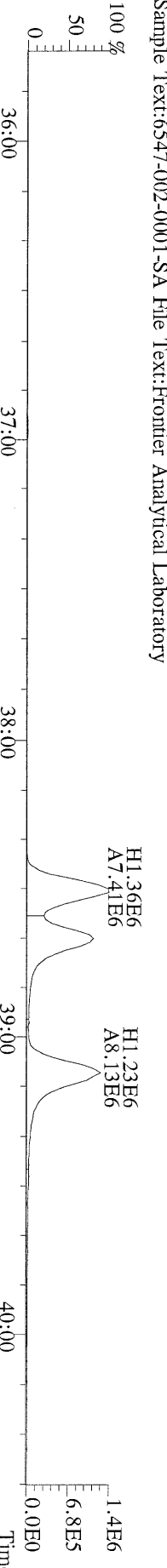
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 391.8127 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



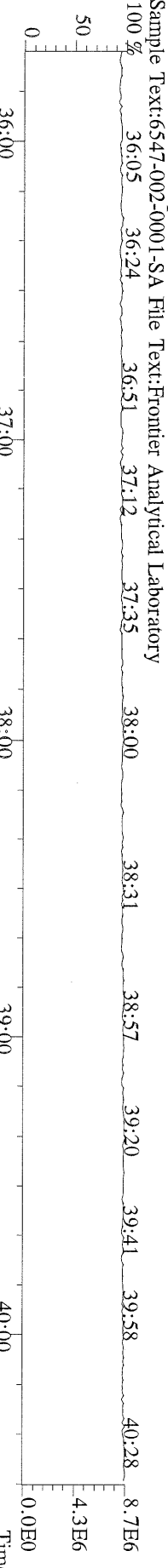
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 401.8559 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



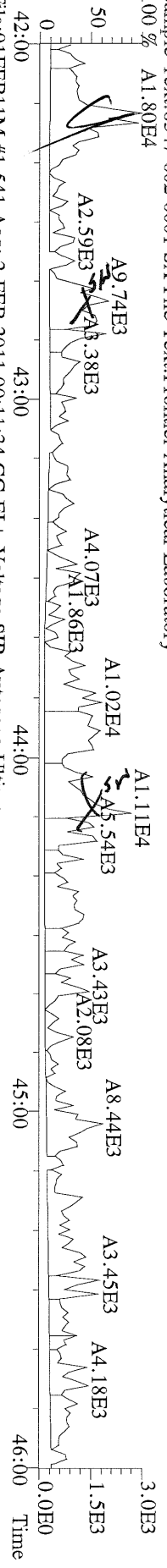
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 403.8530 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



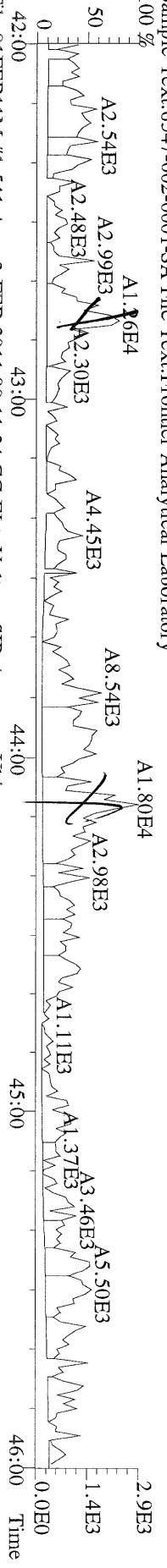
File:01FEB11M #1-476 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:11 F:3 Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



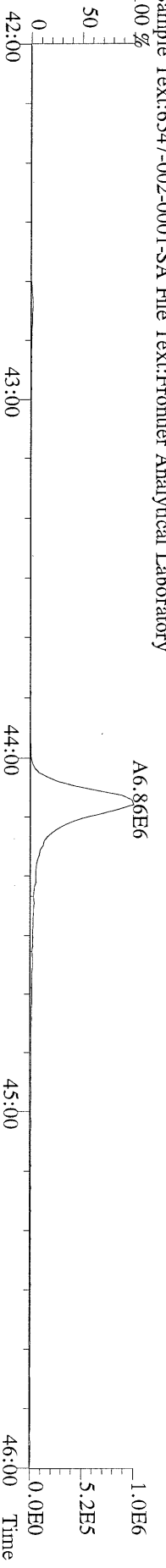
File:01FEB11M #1-541 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory
100% A1.80E4



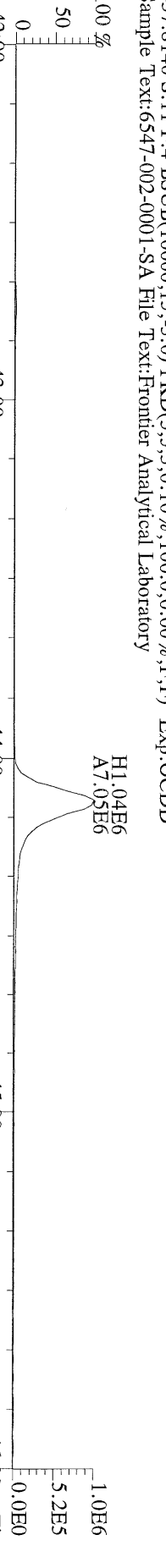
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425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory
100%



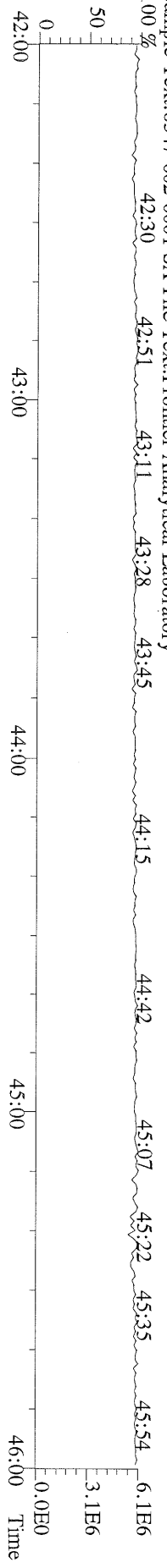
File:01FEB11M #1-541 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory
100%



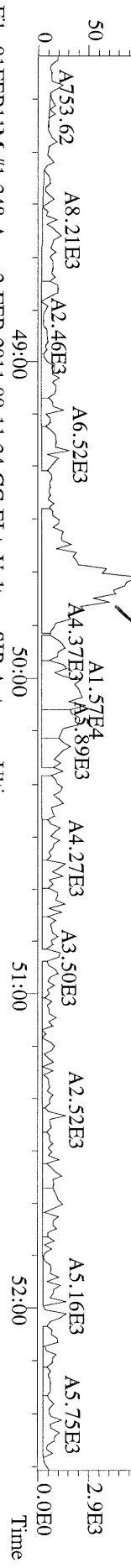
File:01FEB11M #1-541 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



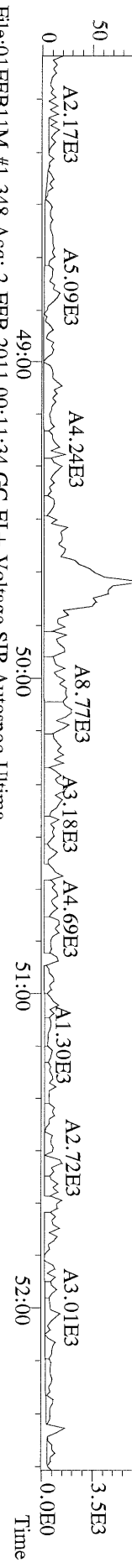
File:01FEB11M #1-541 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:11 F:4 Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



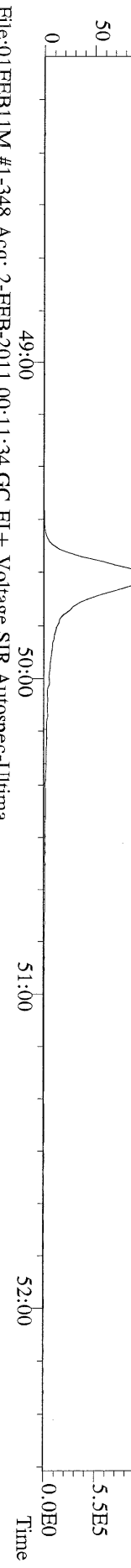
File:01FEB11M #1-348 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



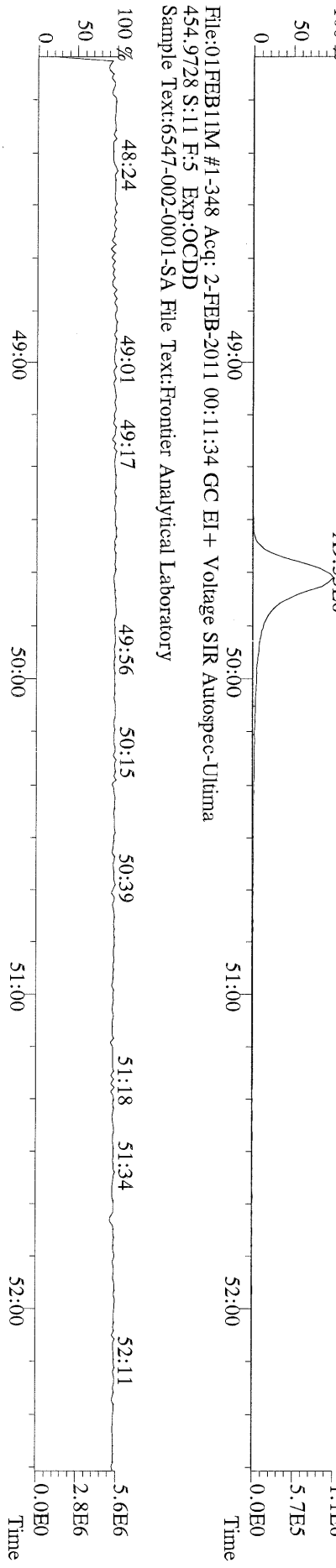
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 459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



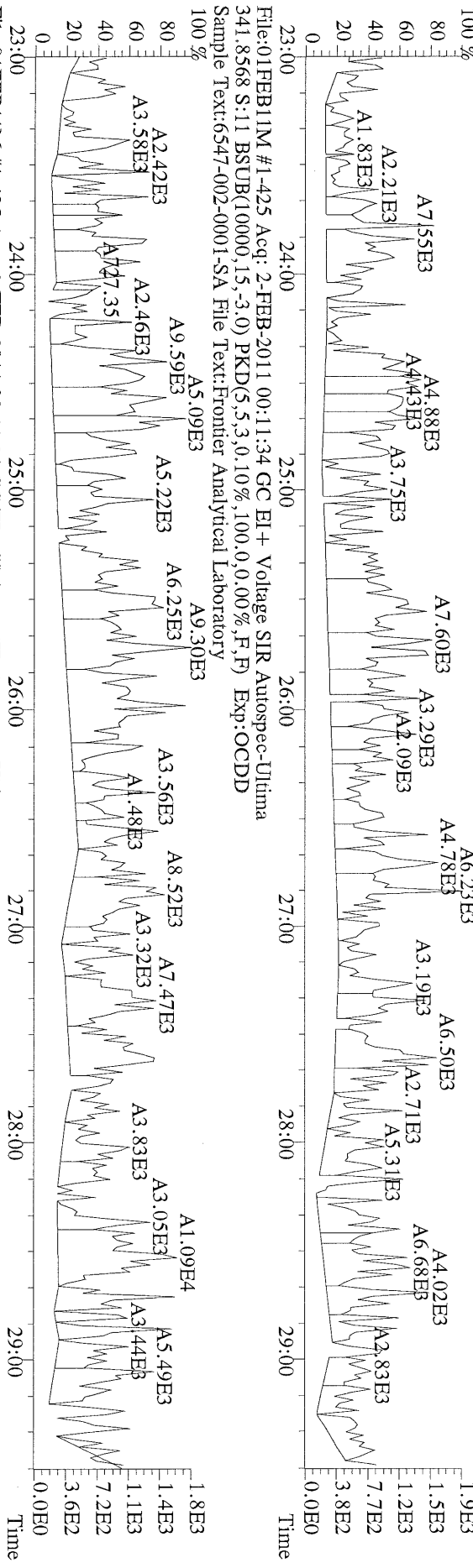
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 471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



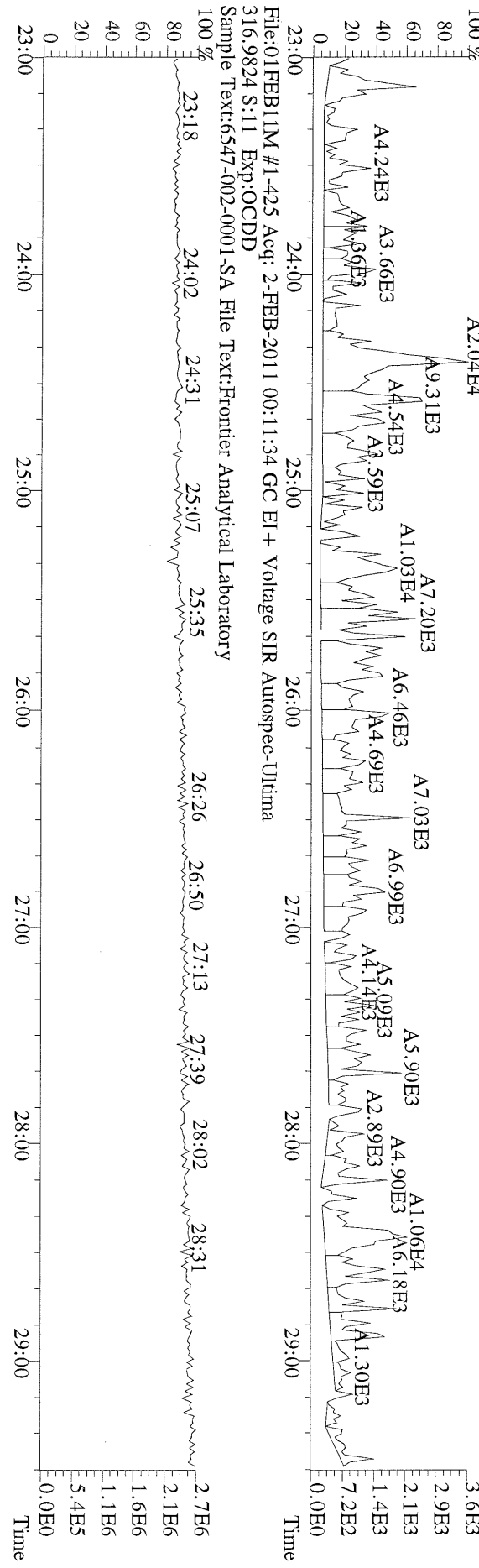
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 454.9728 S:11 F:5 Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



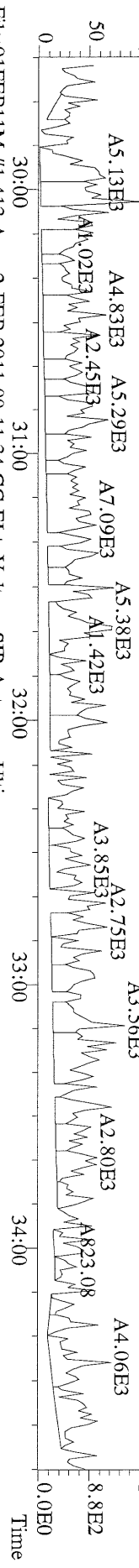
File:01FEB11M #1-425 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:11 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



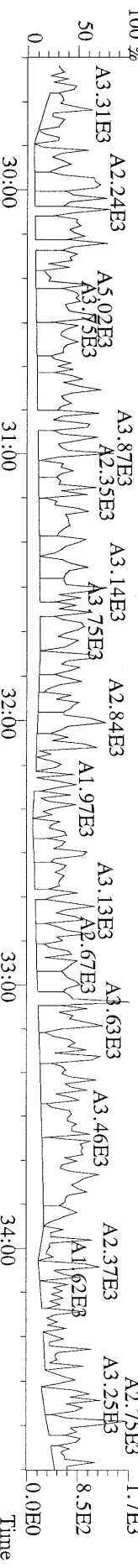
File:01FEB11M #1-425 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:11 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



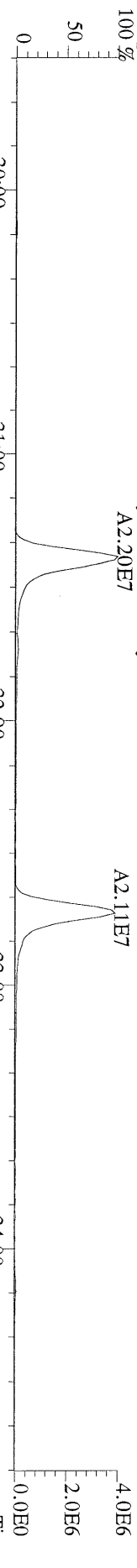
File:01FEB11M #1-413 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



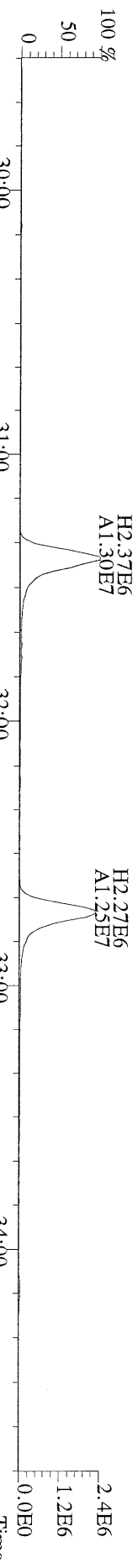
File:01FEB11M #1-413 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



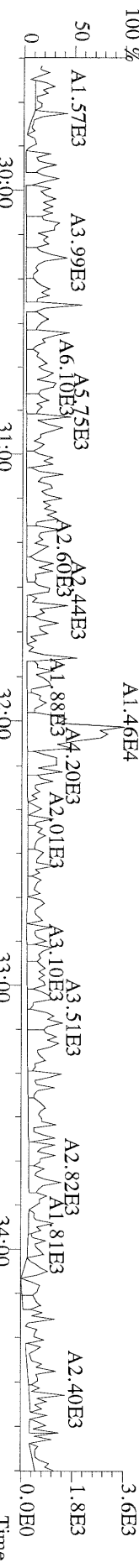
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 351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



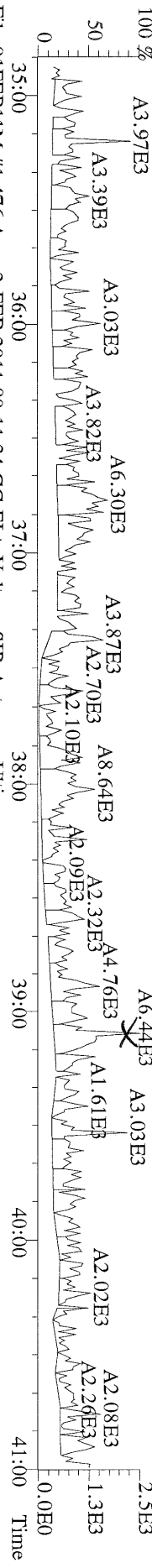
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 353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



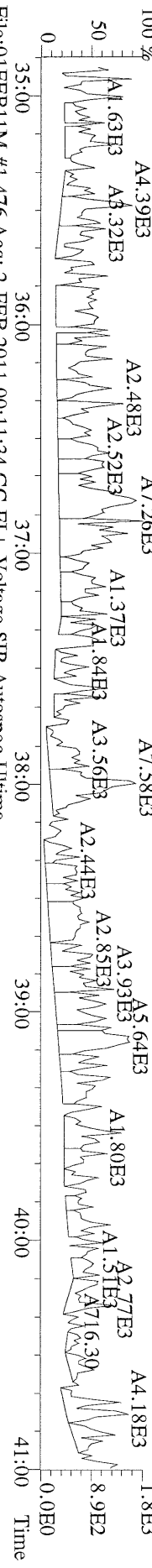
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 409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-476 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



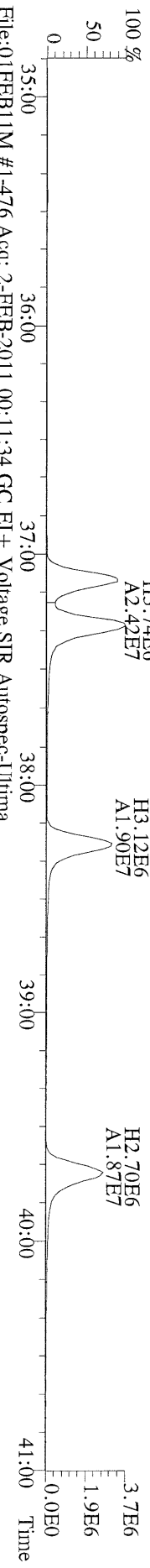
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 375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



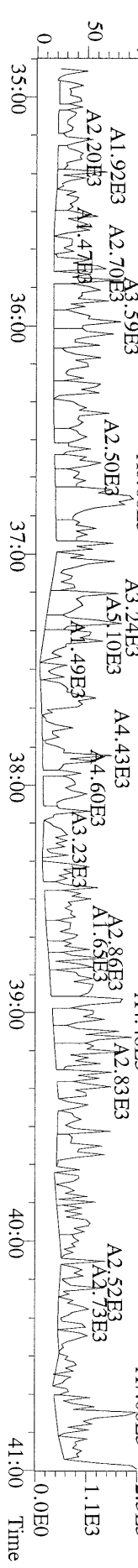
File:01FEB11M #1-476 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Utima
 383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



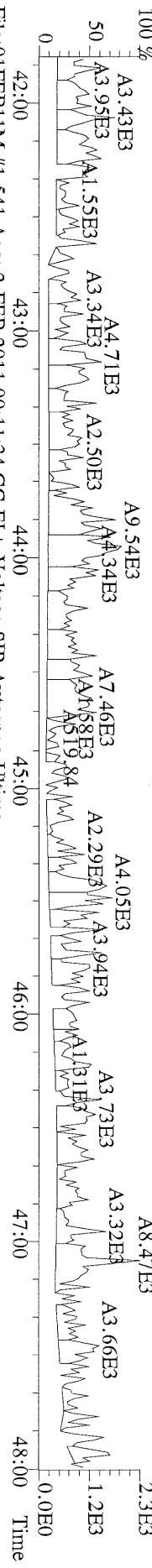
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 385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



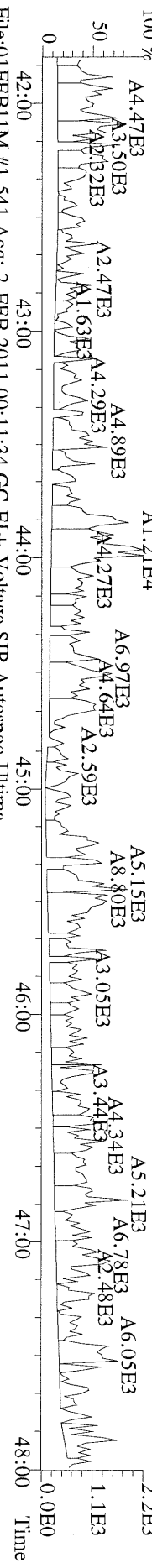
File:01FEB11M #1-476 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



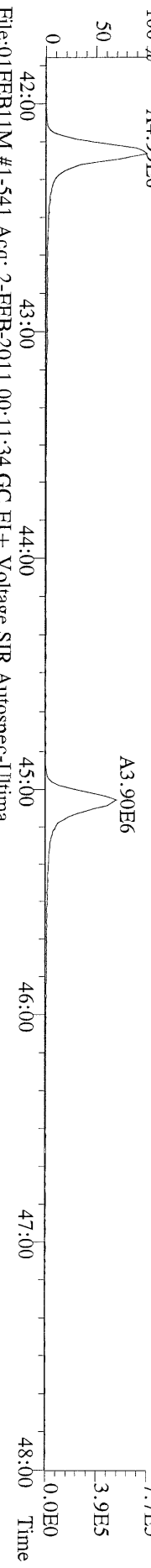
File:01FEB11M #1-541 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



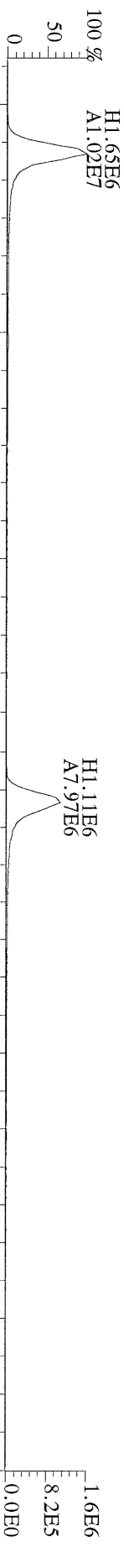
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 409.7788 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



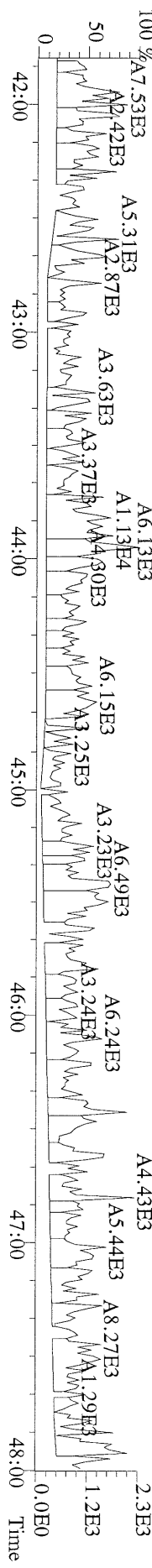
File:01FEB11M #1-541 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



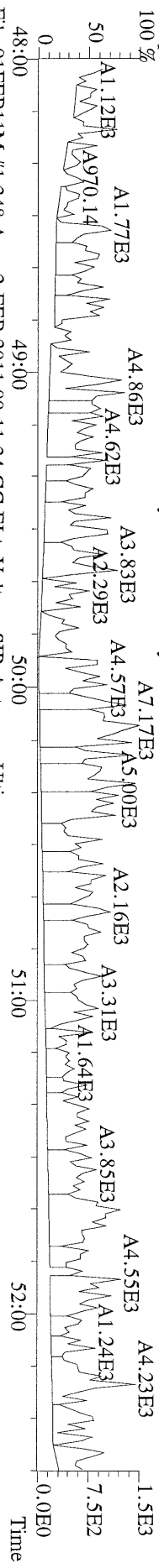
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 419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



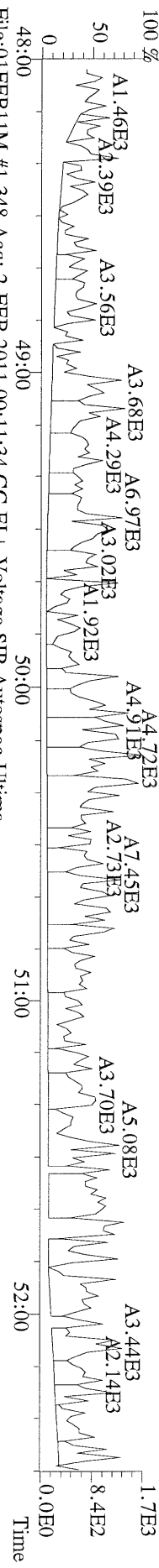
File:01FEB11M #1-541 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



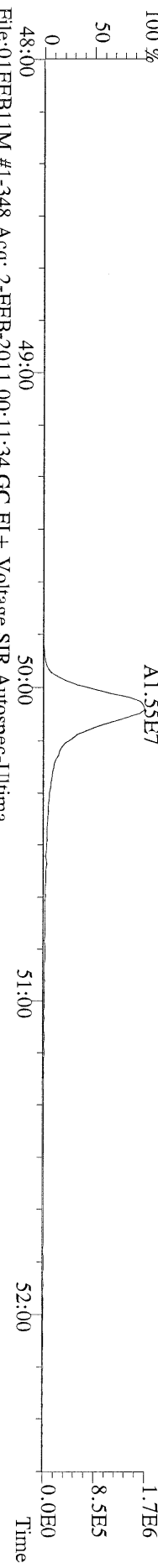
File:01FEB11M #1-348 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



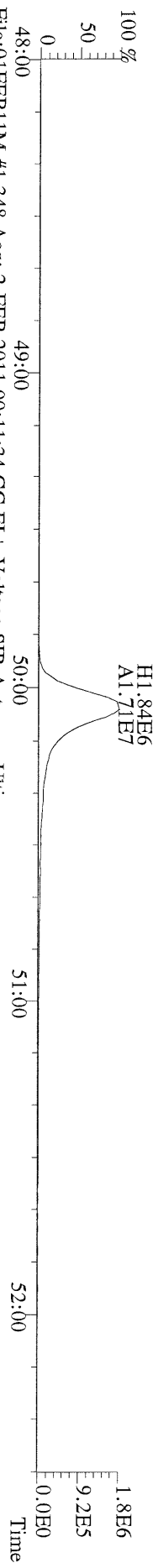
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443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



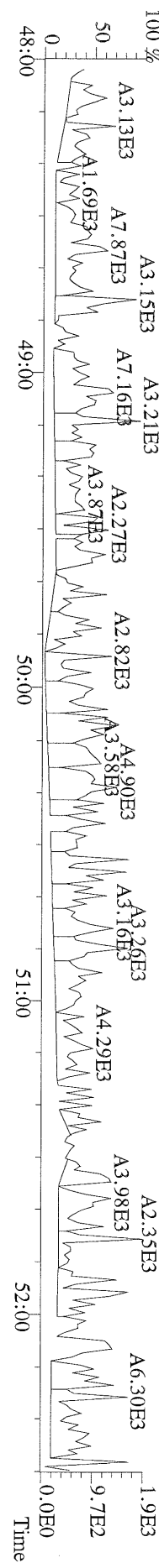
File:01FEB11M #1-348 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory




File:01FEB11M #1-348 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 2-FEB-2011 00:11:34 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-002-0001-SA File Text:Frontier Analytical Laboratory

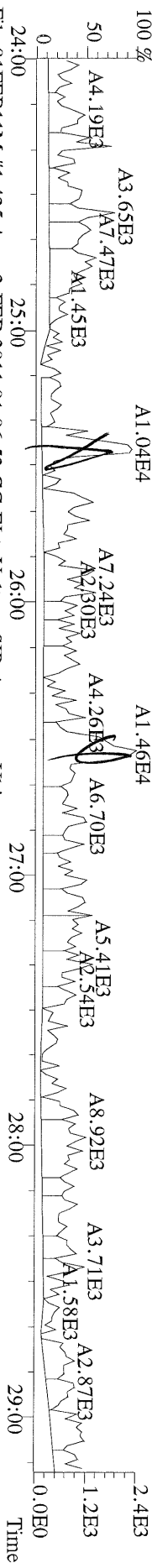


Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	908	1060	1.58	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	932	784	1.78	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	976	996	2.01	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	976	996	2.55	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	976	996	2.29	0
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	928	824	2.52	0
OCDD	1.26e+05	0.90 y	49:42	1.43	16.2	J	2.50	-	-	*	0
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1230	1340	0.941	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	824	1050	1.39	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	824	1050	1.44	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	816	872	1.57	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	816	872	1.55	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	816	872	1.75	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	816	872	1.76	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	940	948	2.41	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	940	948	3.62	0
OCDF	*	* n	NotFnd	0.79	*		2.50	860	1000	5.40	0
Rec											
13C-2,3,7,8-TCDD	2.50e+07	0.81 y	27:17	1.02	1830					93.4	0
13C-1,2,3,7,8-PeCDD	2.38e+07	1.75 y	33:07	0.84	2120					108	0
13C-1,2,3,4,7,8-HxCDD	1.84e+07	1.26 y	38:30	1.07	1720					88.1	0
13C-1,2,3,6,7,8-HxCDD	1.75e+07	1.21 y	38:39	1.01	1740					88.9	0
13C-1,2,3,4,6,7,8-HpCDD	1.62e+07	1.02 y	44:07	0.86	1910					97.7	0
13C-OCDD	2.12e+07	0.94 y	49:41	0.55	3910					100.0	0
13C-2,3,7,8-TCDF	3.95e+07	0.88 y	26:32	0.99	1760					90.0	0
13C-1,2,3,7,8-PeCDF	3.75e+07	1.71 y	31:23	0.84	1980					101	0
13C-2,3,4,7,8-PeCDF	3.56e+07	1.70 y	32:43	0.81	1940					99.4	0
13C-1,2,3,4,7,8-HxCDF	3.01e+07	0.49 y	37:06	1.85	1640					83.8	0
13C-1,2,3,6,7,8-HxCDF	3.91e+07	0.50 y	37:18	2.54	1560					79.6	0
13C-2,3,4,6,7,8-HxCDF	3.10e+07	0.49 y	38:15	2.01	1550					79.3	0
13C-1,2,3,7,8,9-HxCDF	3.14e+07	0.50 y	39:42	2.03	1560					79.7	0
13C-1,2,3,4,6,7,8-HpCDF	1.74e+07	0.48 y	42:13	1.11	1590					81.1	0
13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.51 y	45:03	0.80	1700					86.9	0
13C-OCDF	3.68e+07	0.91 y	50:03	1.08	3420					87.6	0
37Cl-2,3,7,8-TCDD	6.83e+06		27:18	0.69	745					95.3	0
13C-1,2,3,4-TCDD	2.61e+07	0.79 y	26:42	-	56.9						0
13C-1,2,3,4-TCDF	4.42e+07	0.88 y	25:26	-	59.7						0
13C-1,2,3,7,8,9-HxCDD	1.94e+07	1.25 y	39:06	-	68.8						0
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	908	1060	1.58	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	932	784	1.78	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	976	996	2.55	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	928	824	2.52	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1230	1340	0.941	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	824	1050	1.44	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	824	1050	1.44	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	816	872	1.76	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	940	948	3.62	0

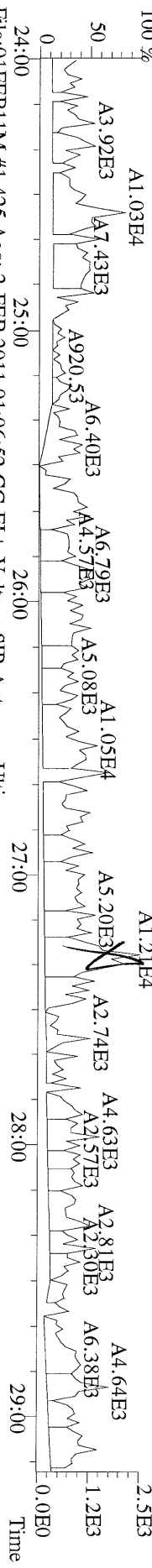
Analyst: 

Date: 2/2/11

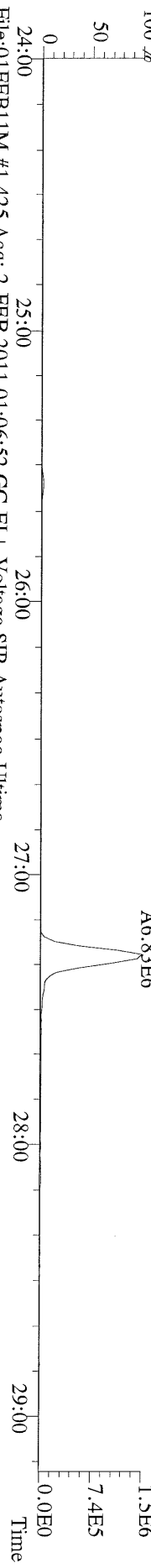
File:01FEB11M #1-425 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



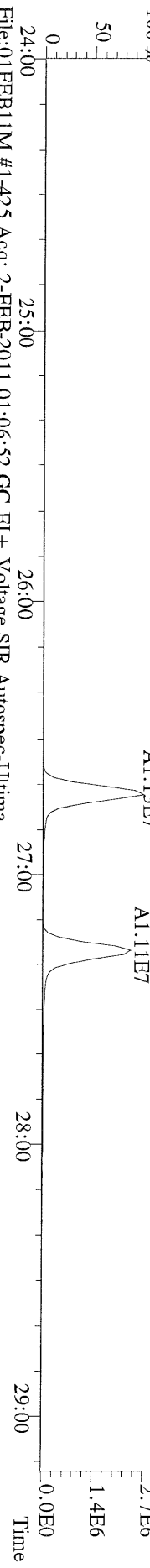
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321.8936 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



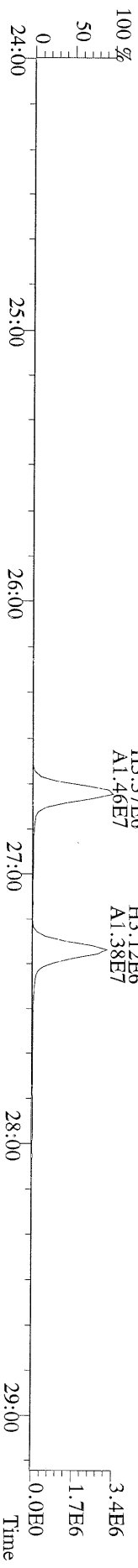
File:01FEB11M #1-425 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



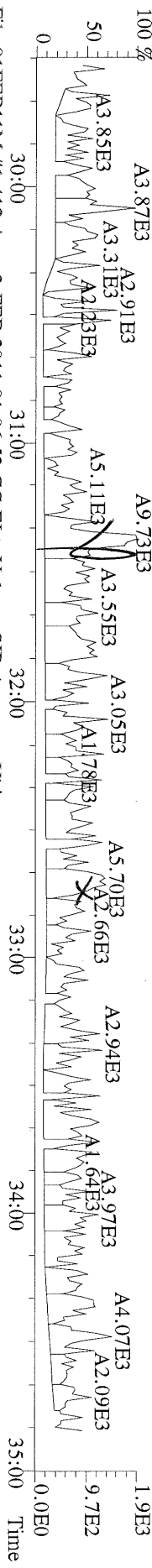
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331.9368 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



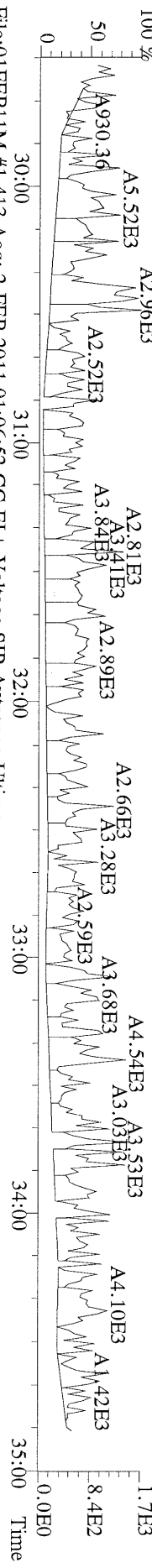
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333.9339 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



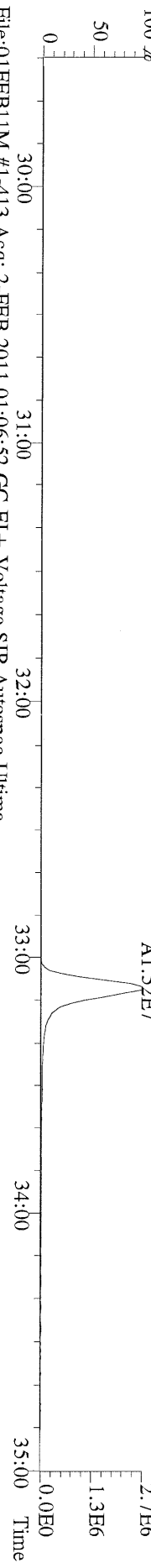
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 355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



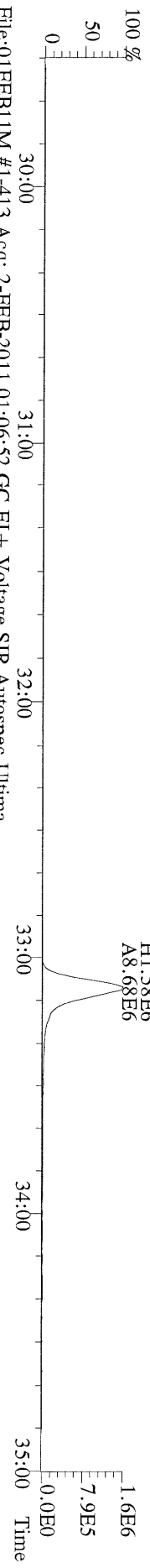
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 357.8517 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



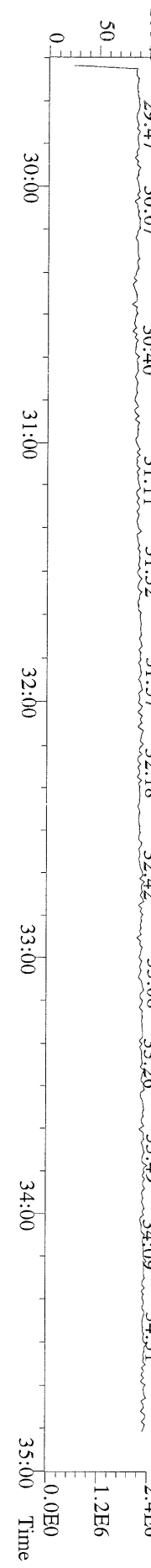
File:01FEB11M #1-413 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



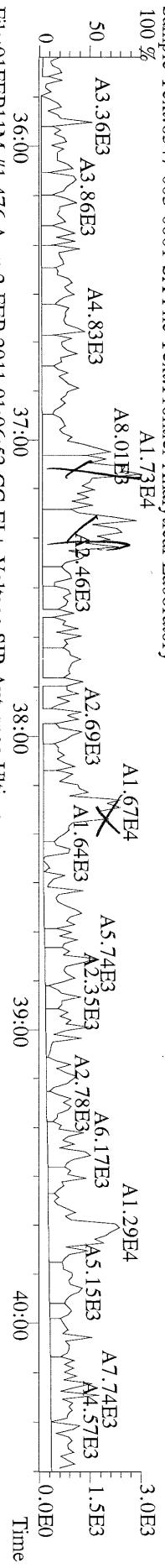
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 369.8919 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



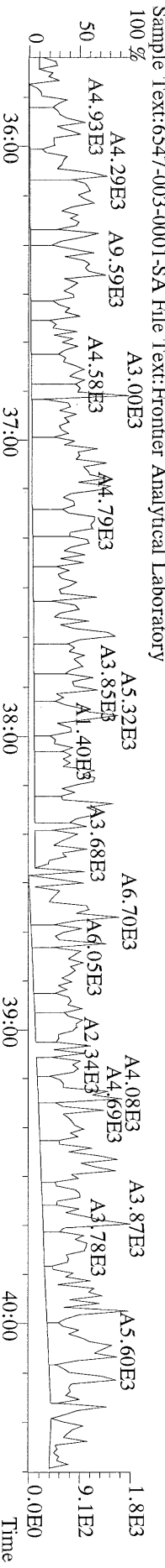
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 366.9792 S:12 F:2 Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



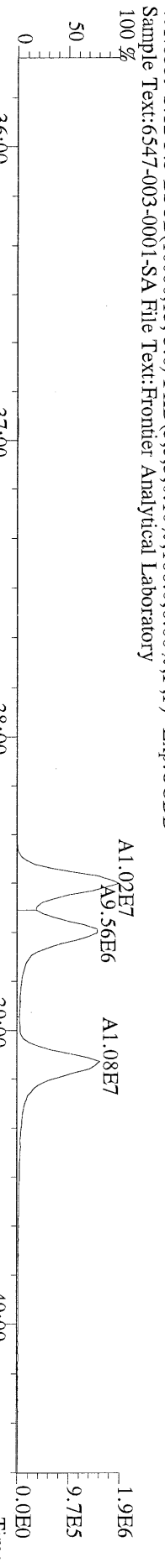
File:01FEB11M #1-476 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



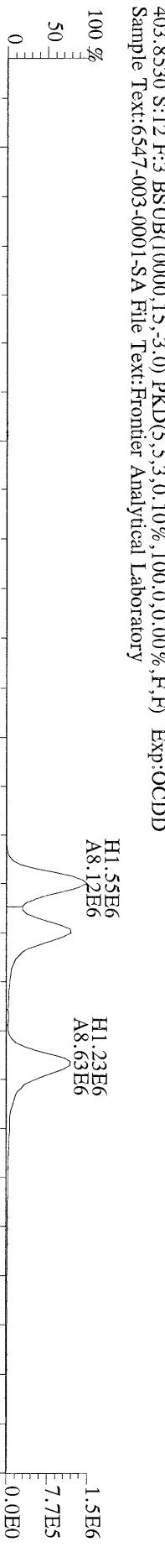
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 391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



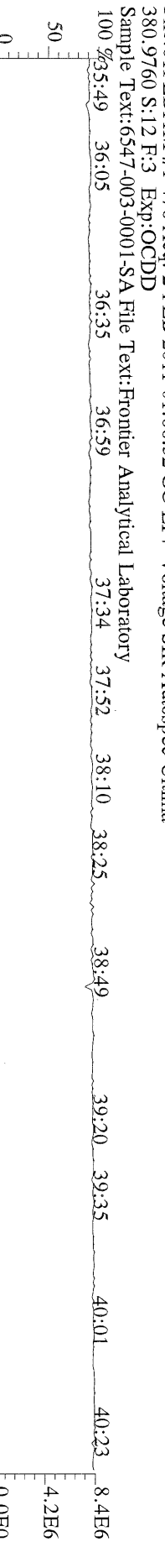
File:01FEB11M #1-476 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



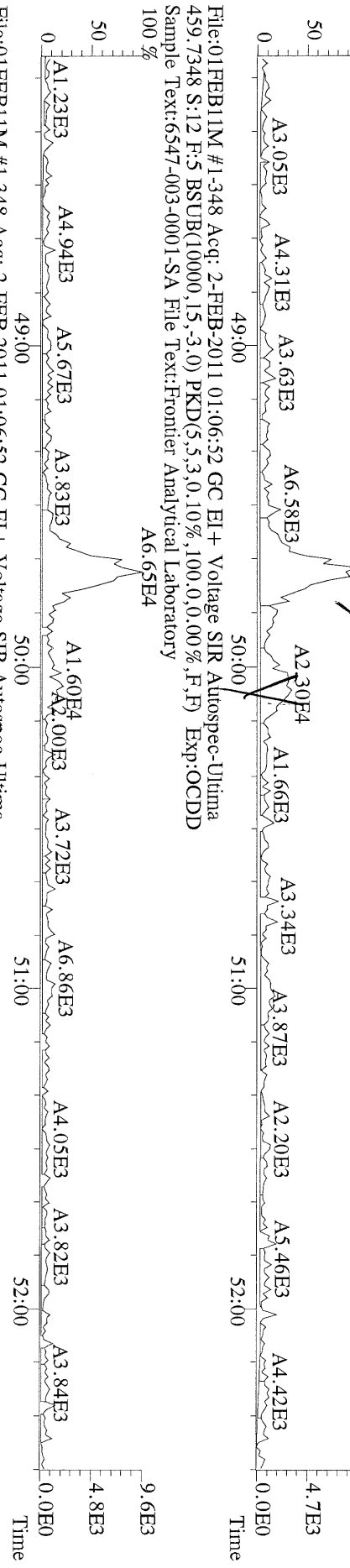
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 403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



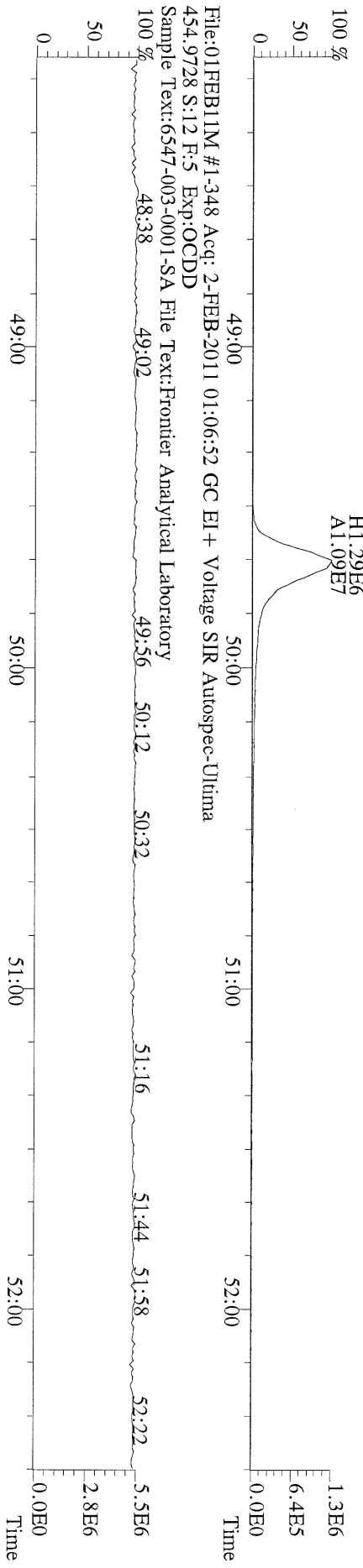
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 Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



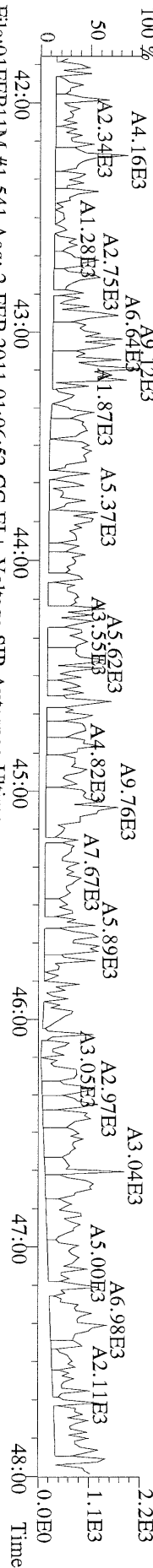
File:01FEB11M #1-348 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



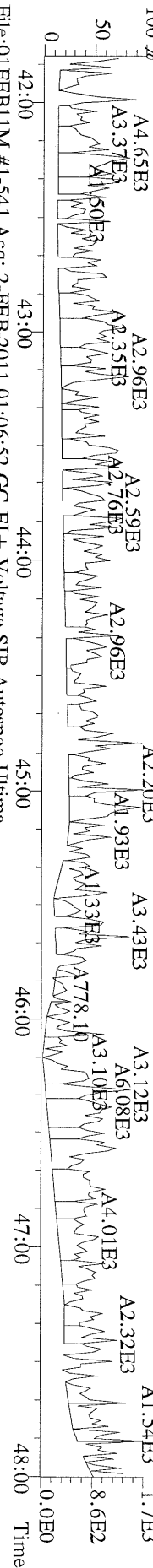
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469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



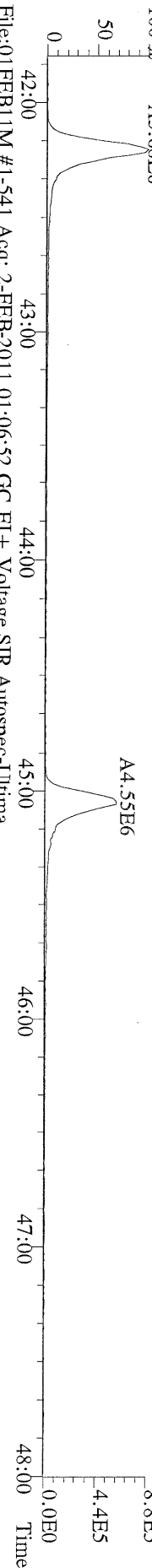
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407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



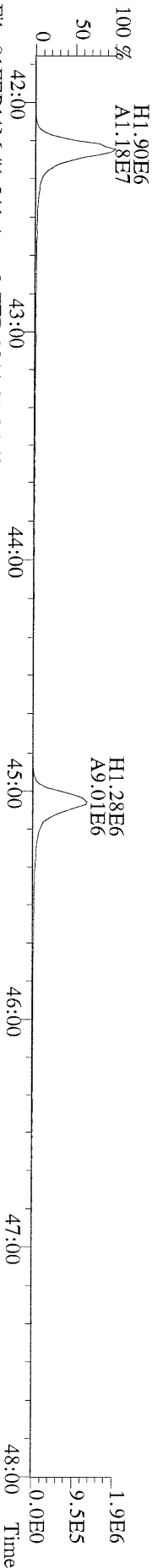
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409.7788 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



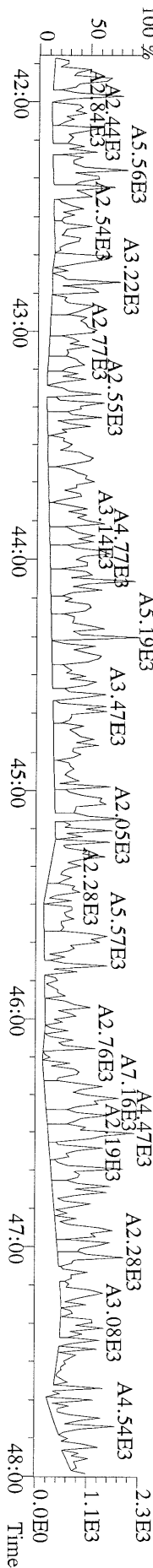
File:01FEB11M #1-541 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



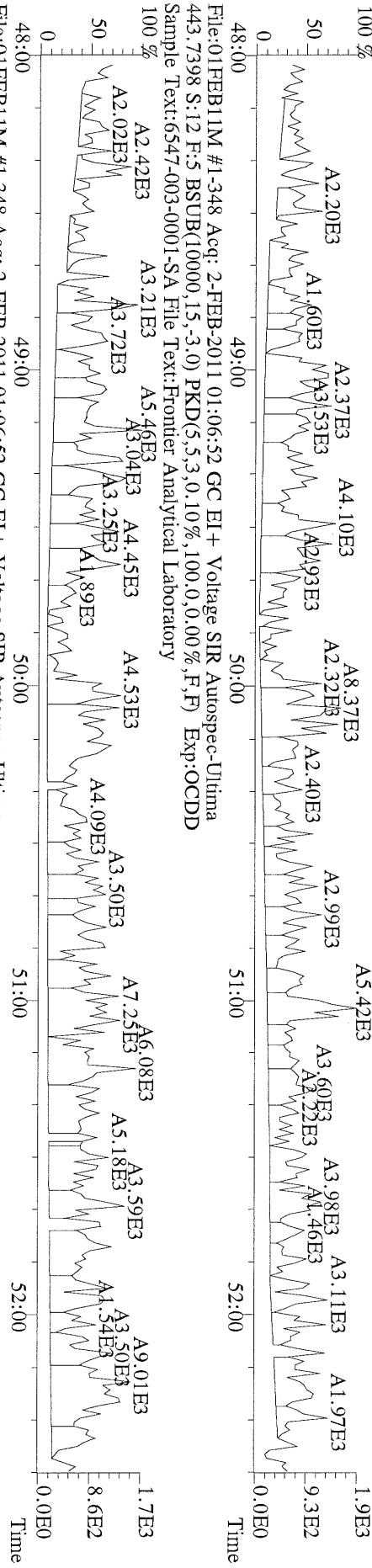
File:01FEB11M #1-541 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



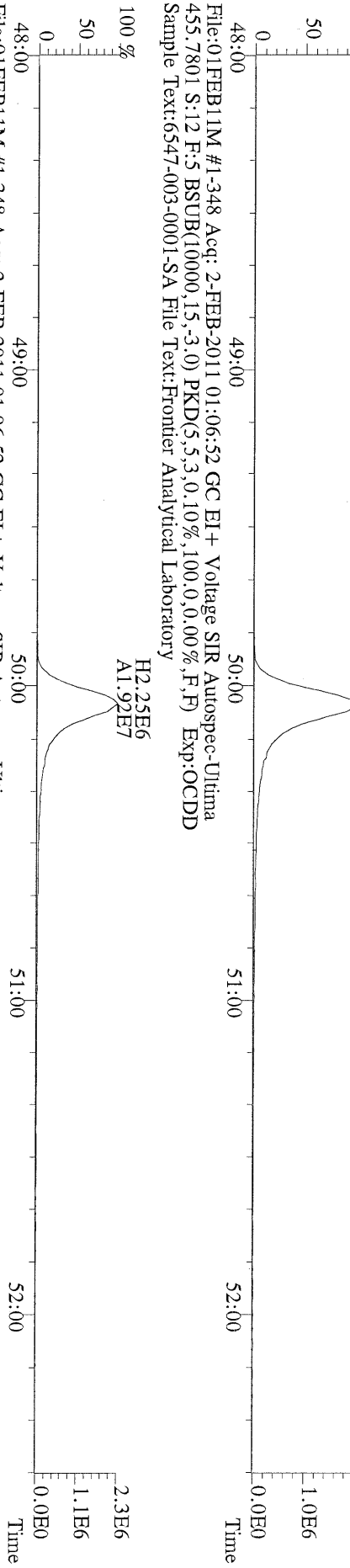
File:01FEB11M #1-541 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



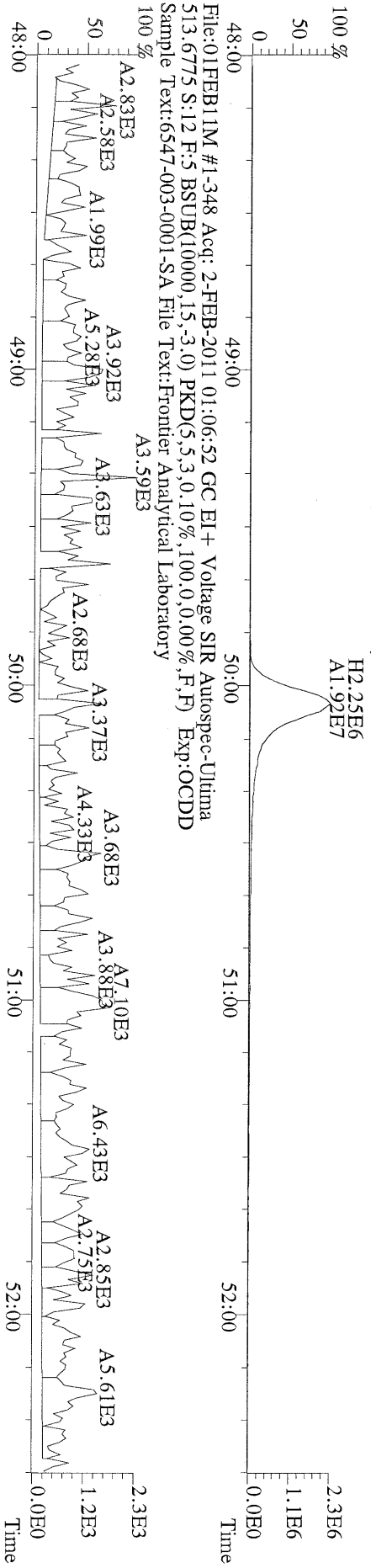
File:01FEB11M #1-348 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:12 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 2-FEB-2011 01:06:52 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:12 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-003-0001-SA File Text:Frontier Analytical Laboratory

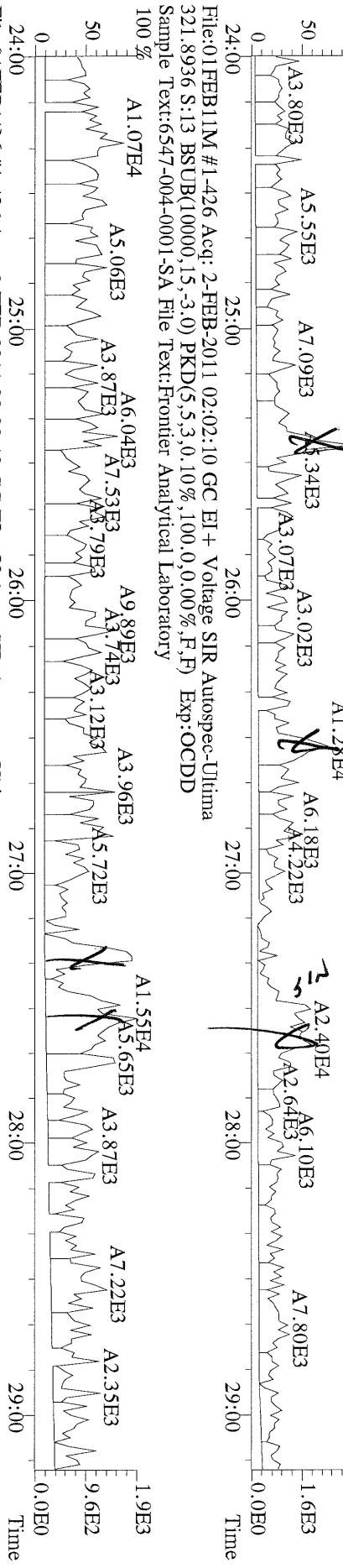


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	751	725	1.45	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	972	819	2.15	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	948	968	2.30	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	948	968	2.90	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	948	968	2.61	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	1020	856	3.27	
OCDD	*	* n	NotFnd	1.43	*		2.50	1060	1080	6.97	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	938	1030	0.877	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	948	1150	1.84	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	948	1150	1.90	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	812	696	1.72	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	812	696	1.61	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	812	696	1.76	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	812	696	1.88	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	968	606	2.36	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	968	606	3.71	
OCDF	*	* n	NotFnd	0.79	*		2.50	770	737	5.42	
											Rec
13C-2,3,7,8-TCDD	2.19e+07	0.76	y 27:16	1.02	1600						78.1
13C-1,2,3,7,8-PeCDD	2.19e+07	1.77	y 33:07	0.84	1930						94.7
13C-1,2,3,4,7,8-HxCDD	1.71e+07	1.24	y 38:30	1.07	1720						84.1
13C-1,2,3,6,7,8-HxCDD	1.55e+07	1.25	y 38:40	1.01	1660						81.1
13C-1,2,3,4,6,7,8-HpCDD	1.44e+07	0.97	y 44:07	0.86	1820						89.2
13C-OCDD	1.91e+07	0.99	y 49:42	0.55	3780						92.5
13C-2,3,7,8-TCDF	3.46e+07	0.88	y 26:32	0.99	1530						75.0
13C-1,2,3,7,8-PeCDF	3.34e+07	1.67	y 31:23	0.84	1760						86.0
13C-2,3,4,7,8-PeCDF	3.25e+07	1.72	y 32:43	0.81	1760						86.2
13C-1,2,3,4,7,8-HxCDF	2.69e+07	0.49	y 37:06	1.85	1570						76.8
13C-1,2,3,6,7,8-HxCDF	3.60e+07	0.49	y 37:19	2.54	1540						75.2
13C-2,3,4,6,7,8-HxCDF	2.89e+07	0.49	y 38:15	2.01	1550						75.8
13C-1,2,3,7,8,9-HxCDF	2.80e+07	0.51	y 39:42	2.03	1490						73.0
13C-1,2,3,4,6,7,8-HpCDF	1.59e+07	0.49	y 42:12	1.11	1550						76.0
13C-1,2,3,4,7,8,9-HpCDF	1.15e+07	0.51	y 45:03	0.80	1550						75.7
13C-OCDF	3.20e+07	0.94	y 50:03	1.08	3200						78.3
37Cl-2,3,7,8-TCDD	6.15e+06		27:18	0.69	668						81.7
13C-1,2,3,4-TCDD	2.74e+07	0.77	y 26:42	-	62.3						
13C-1,2,3,4-TCDF	4.64e+07	0.87	y 25:27	-	65.5						
13C-1,2,3,7,8,9-HxCDD	1.89e+07	1.29	y 39:07	-	70.0						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	751	725	1.45	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	972	819	2.15	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	948	968	2.90	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	1020	856	3.27	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	938	1030	0.877	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	948	1150	1.90	0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	948	1150	1.90	0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	812	696	1.88	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	968	606	3.71	0

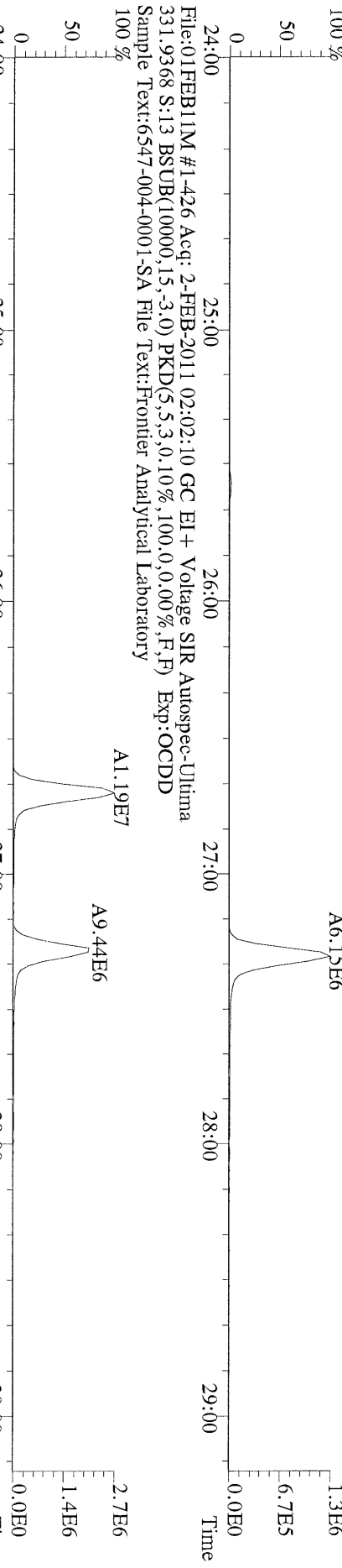
Analyst: 

Date: 2/2/11

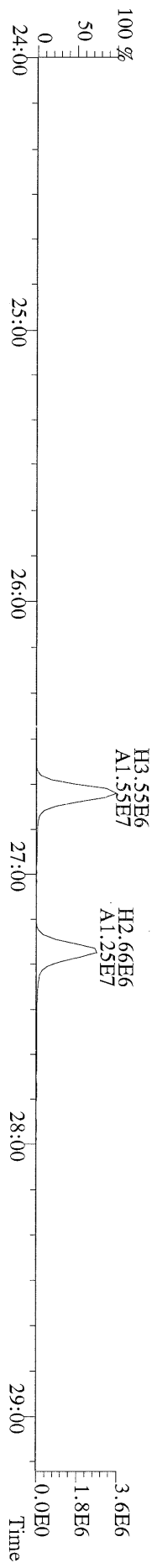
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



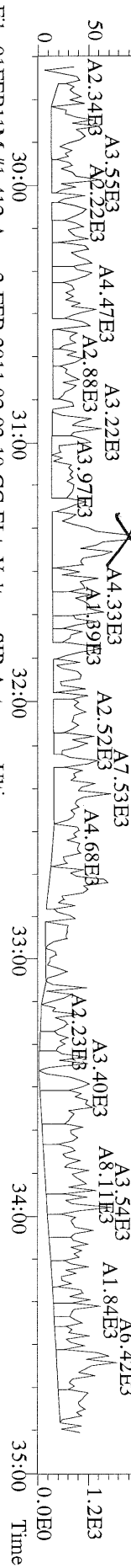
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327.8847 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



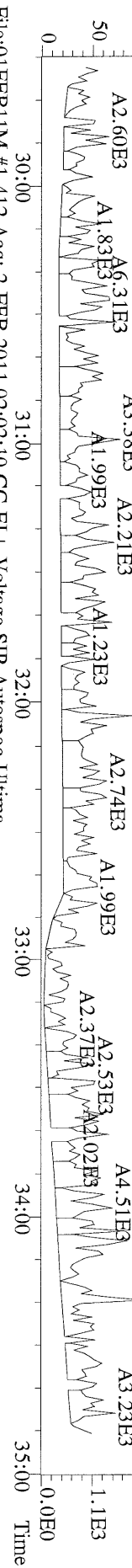
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



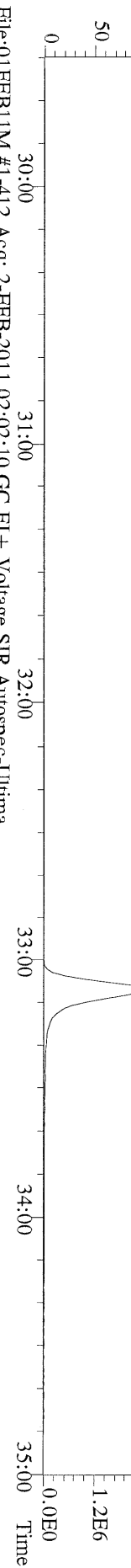
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 355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



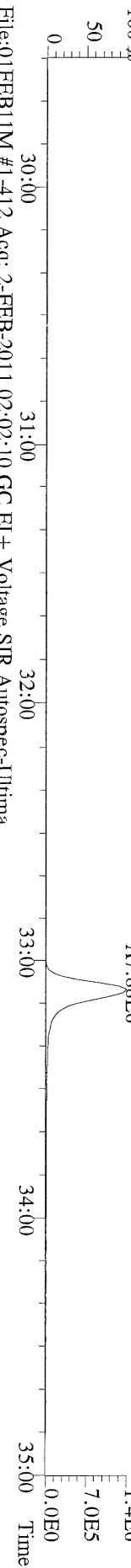
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 357.8517 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



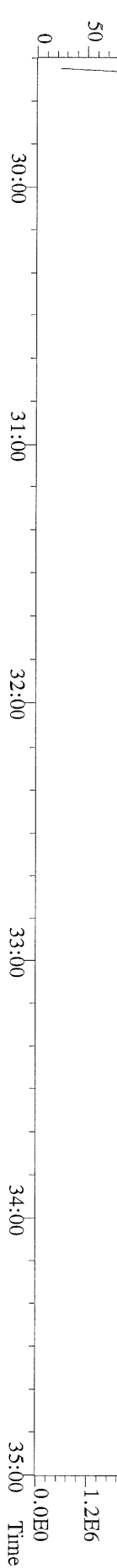
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



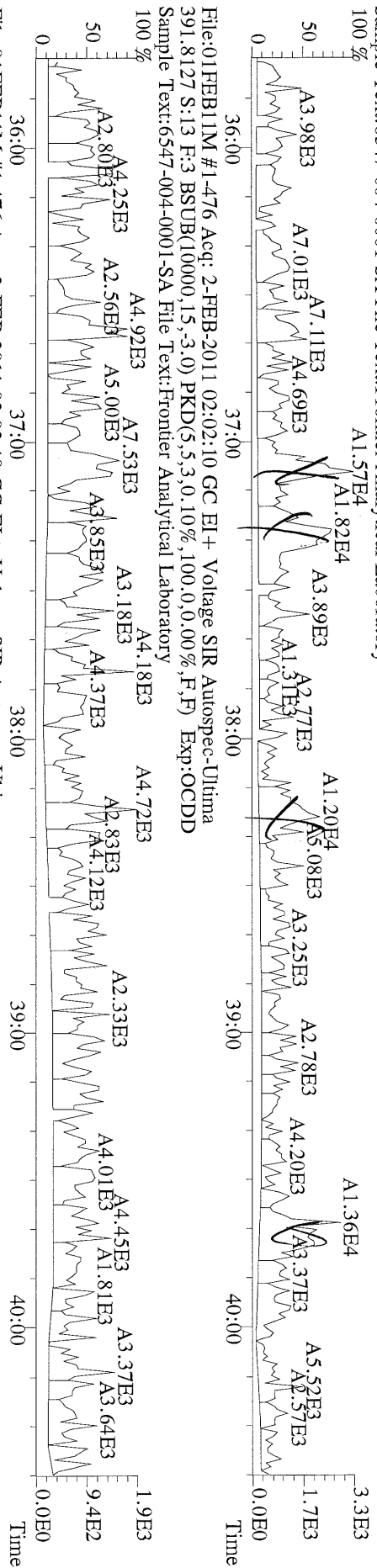
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 369.8919 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



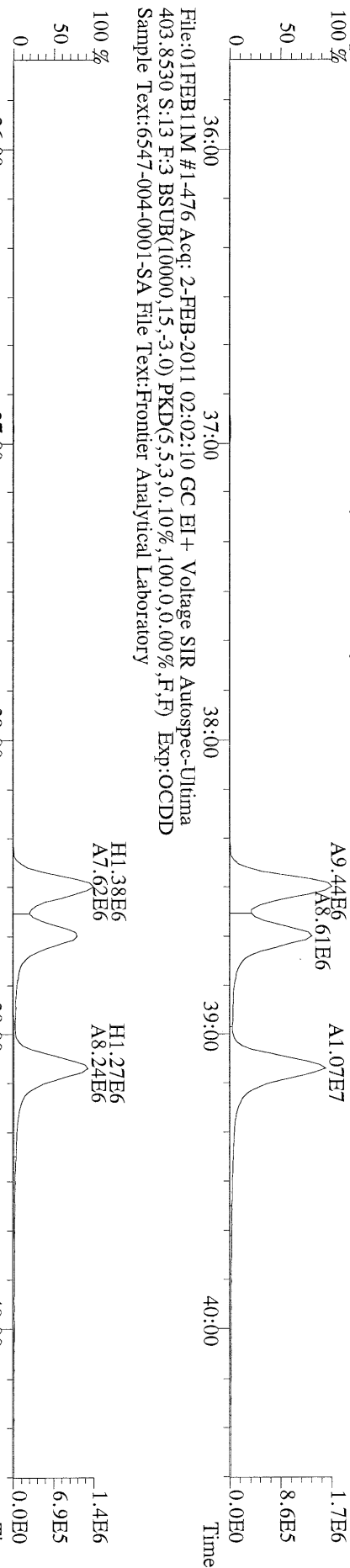
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:13 F:2 Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



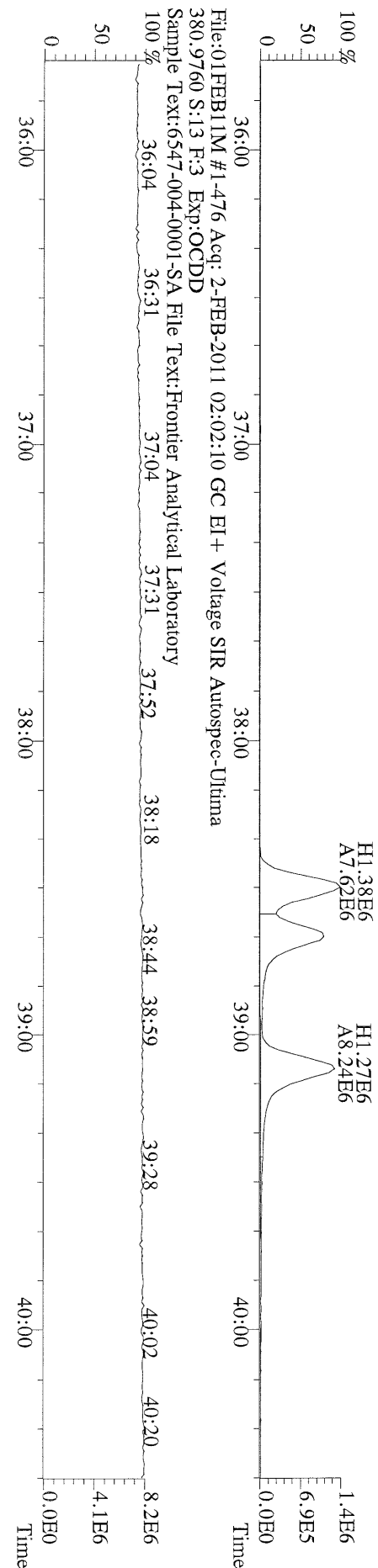
File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory

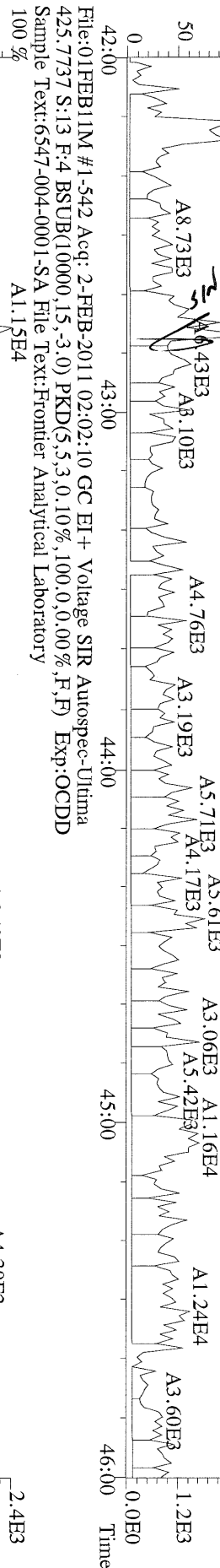


File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory

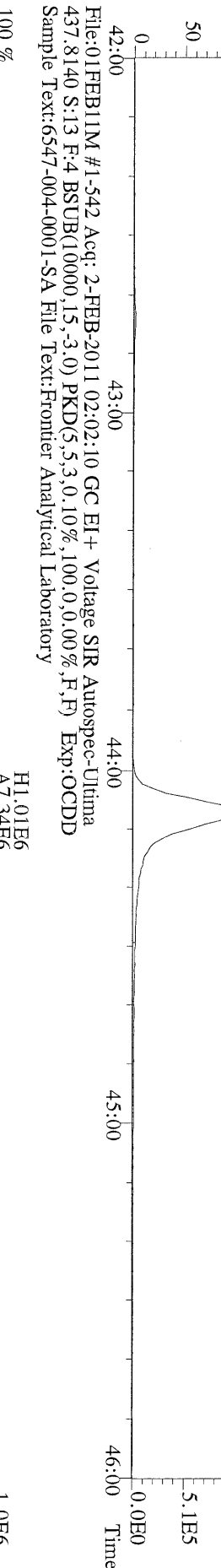


File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:13 F:3 Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory

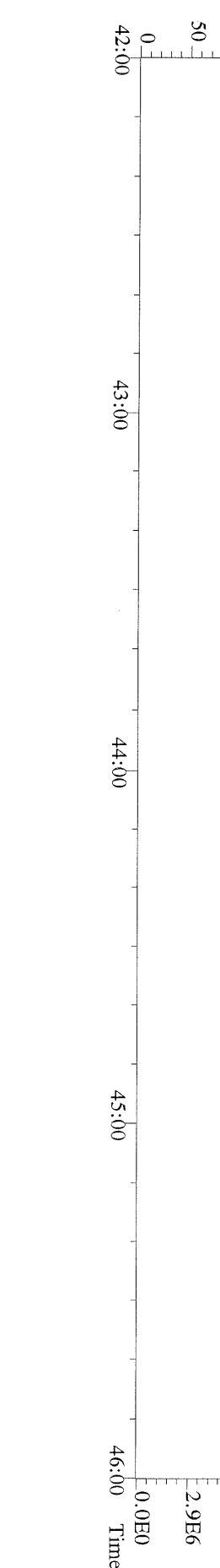
File:01FEB11M #1-542 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory
100% A1.51E4 A1.29E4



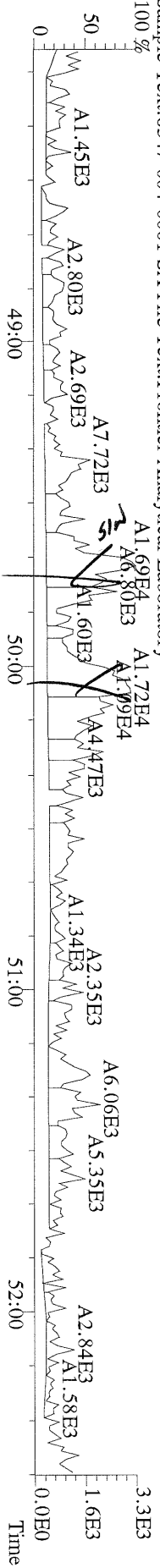
File:01FEB11M #1-542 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory
100% A7.10E6



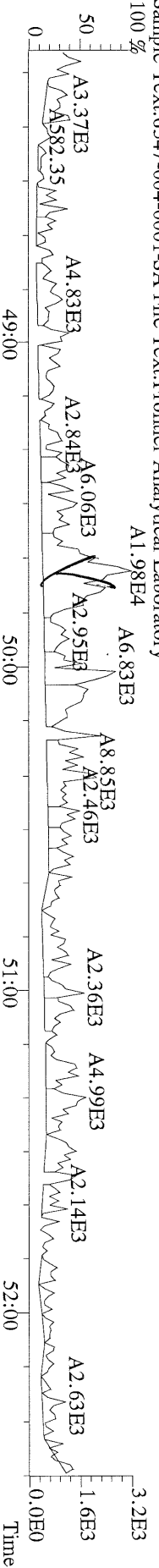
File:01FEB11M #1-542 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:13 F:4 Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory
100% 42:16 42:53 43:09 43:28 43:45



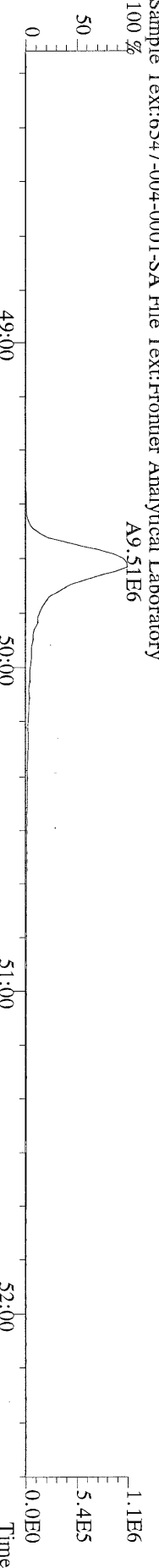
File:01FEB11M #1-347 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



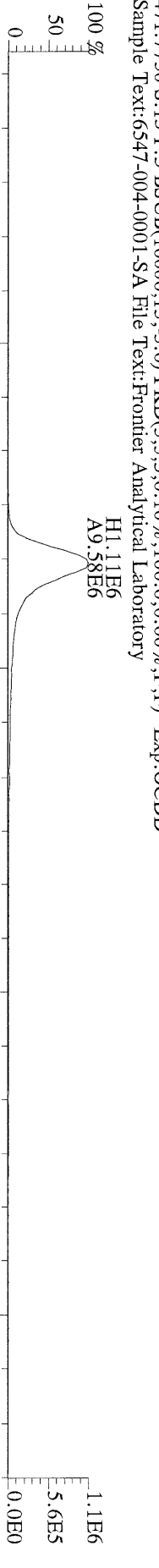
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 459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



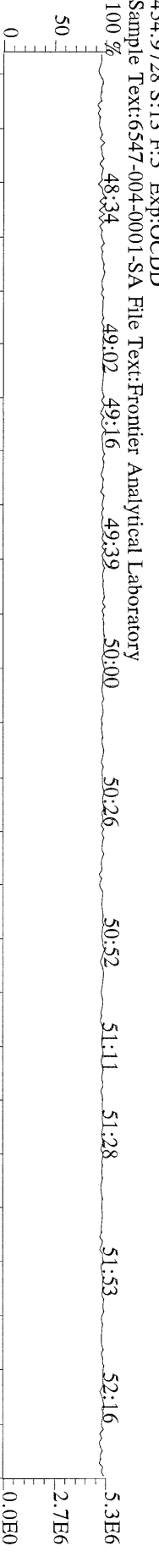
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 469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



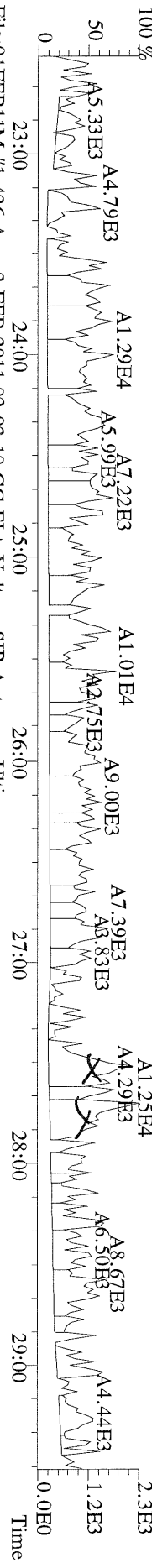
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 471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



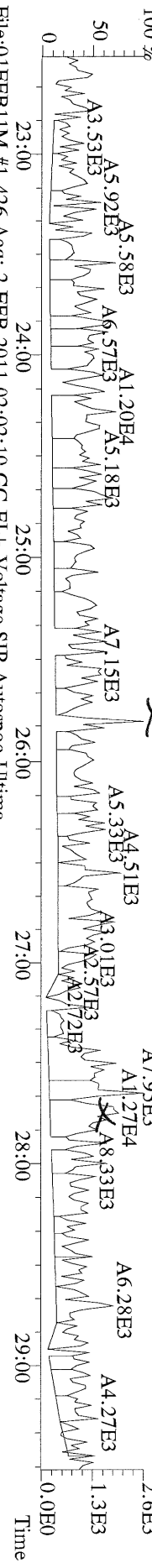
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 454.9728 S:13 F:5 Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



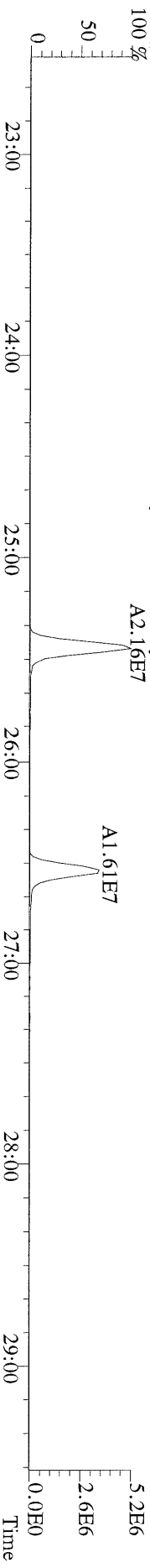
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



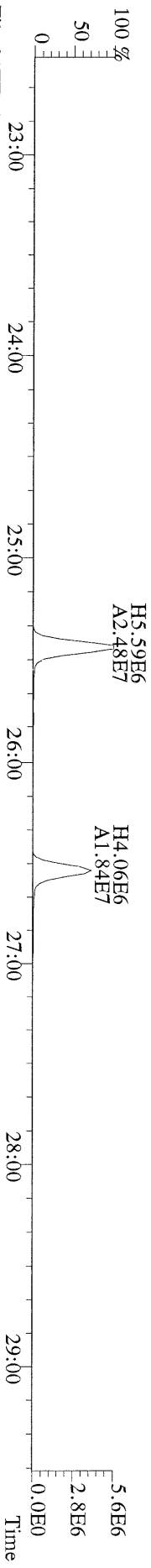
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



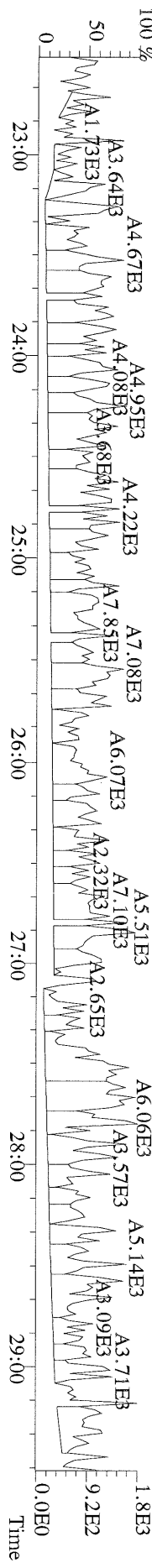
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
315.9419 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



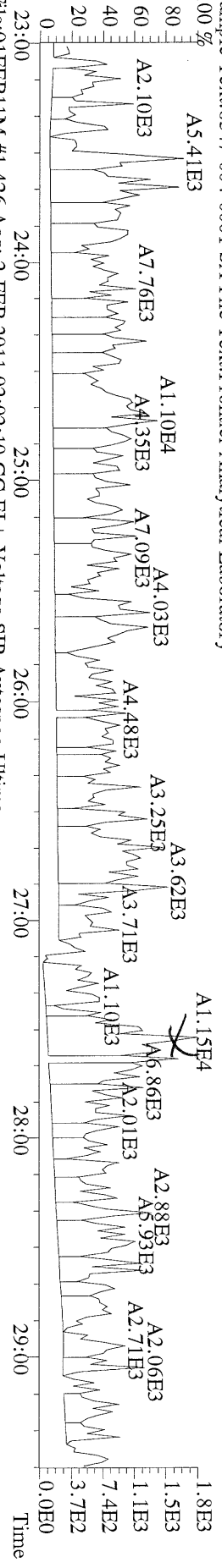
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317.9389 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



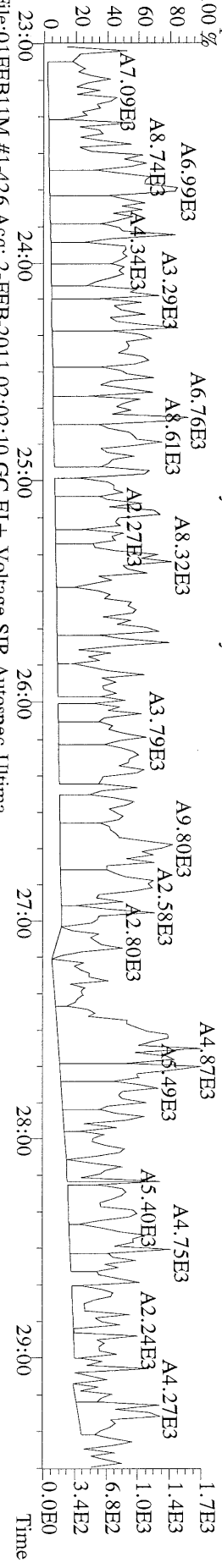
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



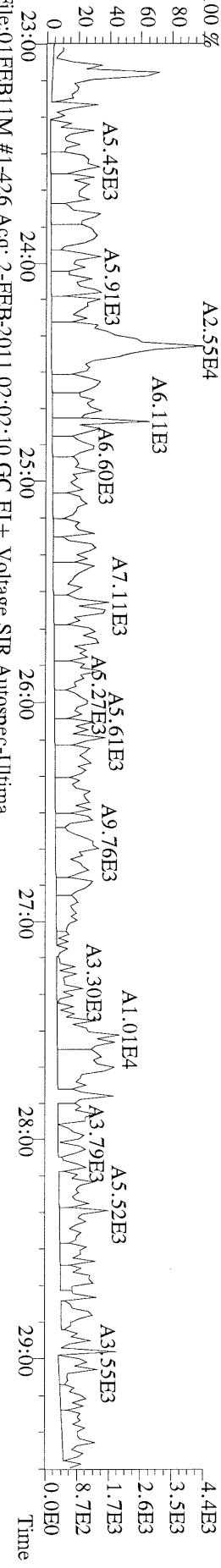
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 339.8597 S:13 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



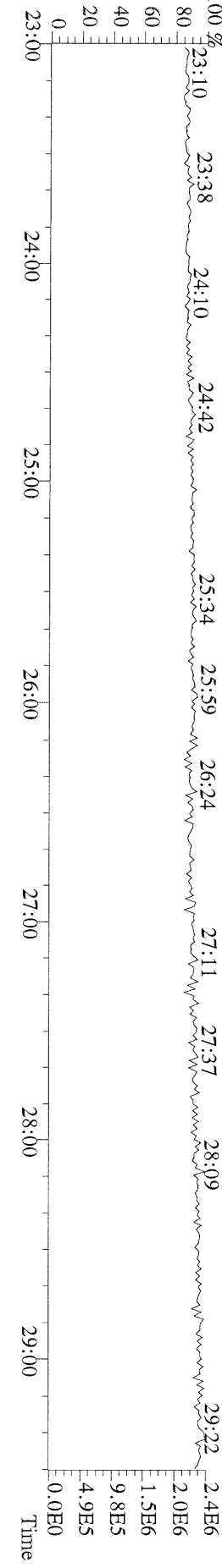
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:13 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



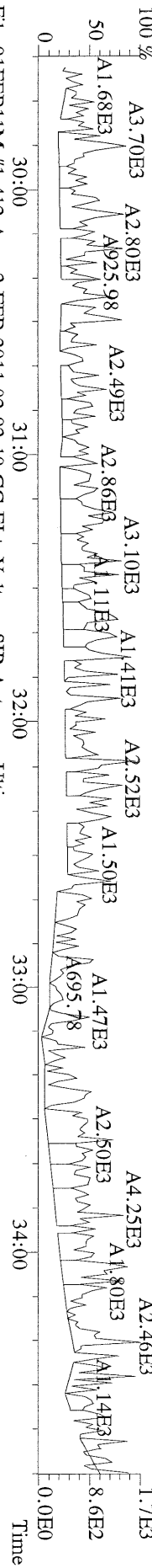
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:13 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



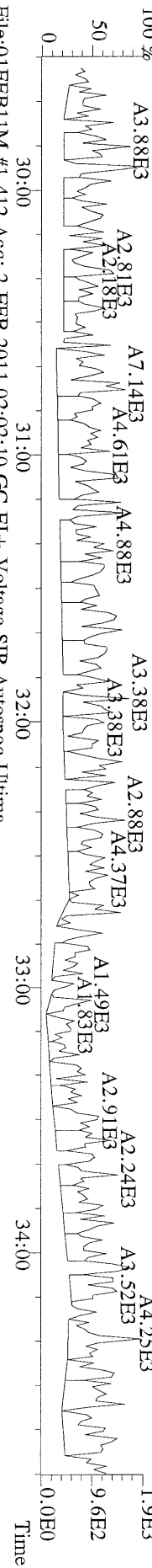
File:01FEB11M #1-426 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
 316.9824 S:13 Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



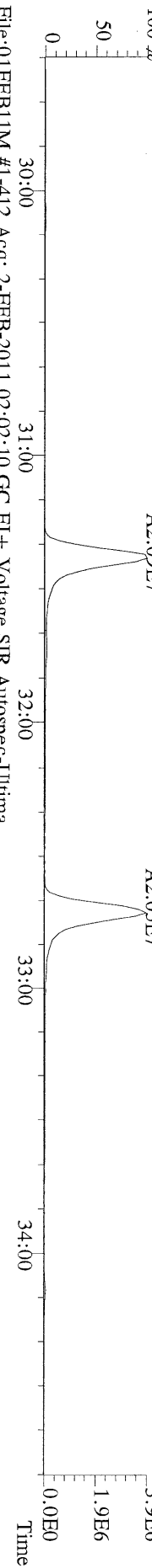
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



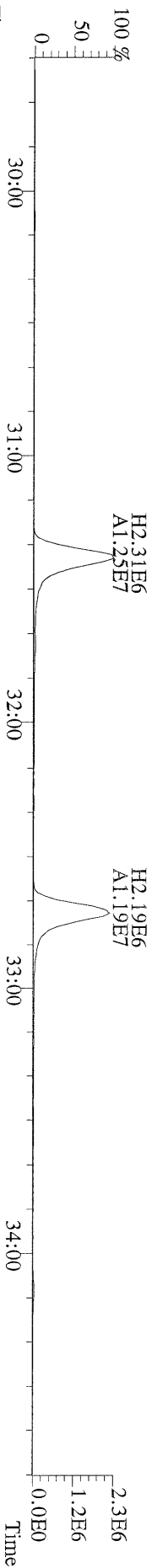
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
 341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



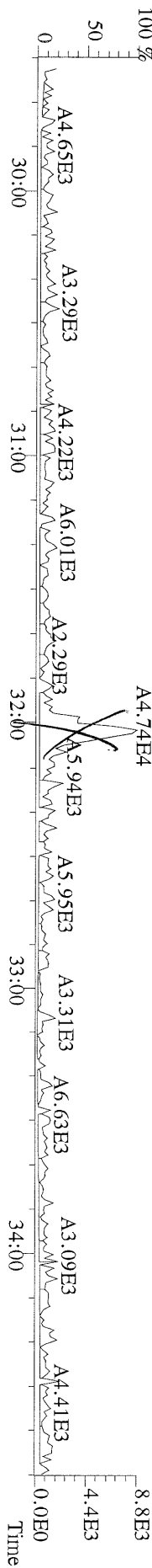
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
 351.9000 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



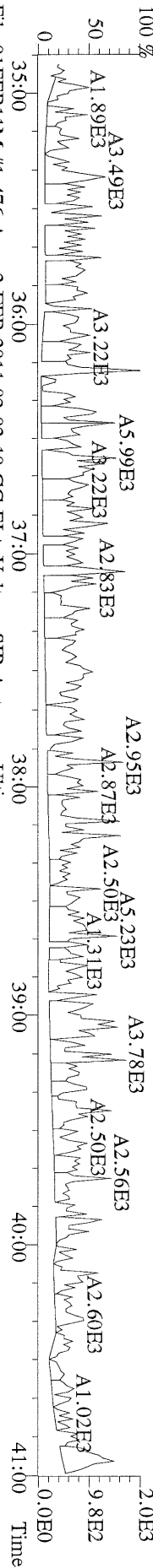
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



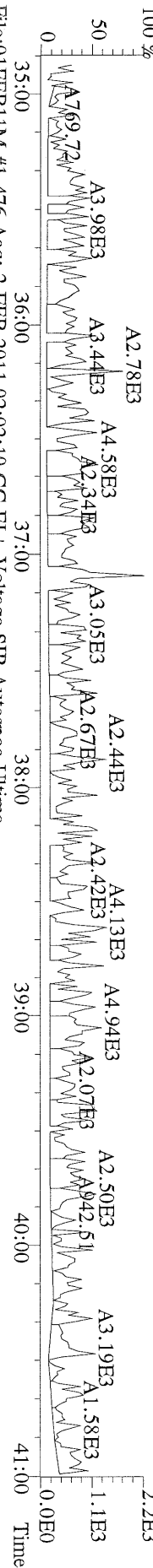
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



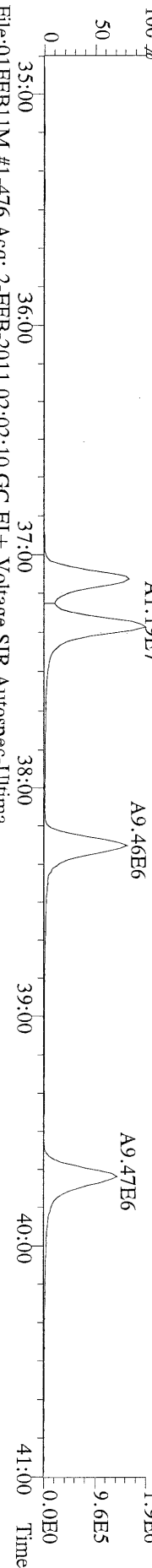
File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:13 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



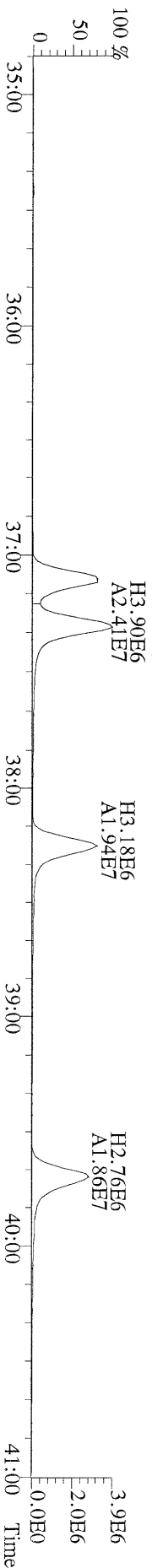
File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
375.8178 S:13 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



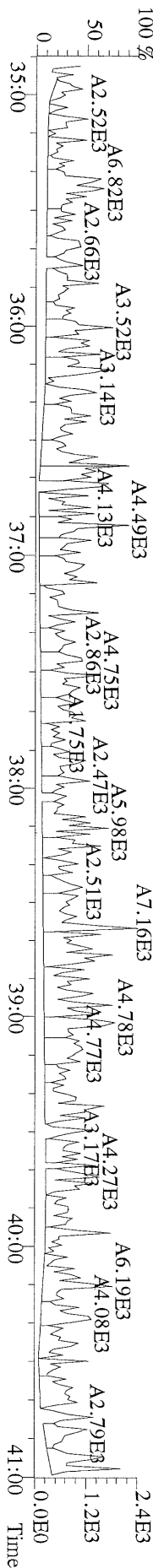
File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:13 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



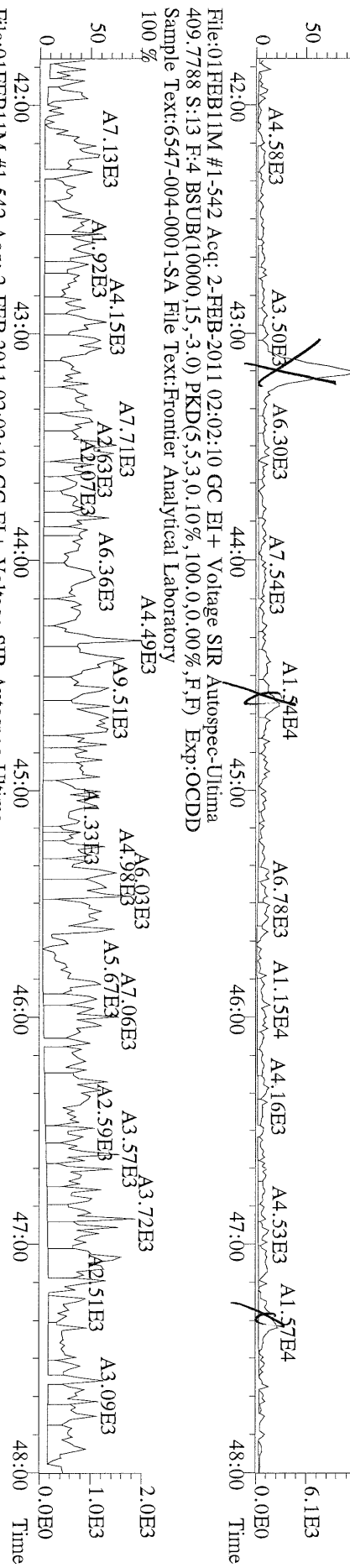
File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
385.8610 S:13 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



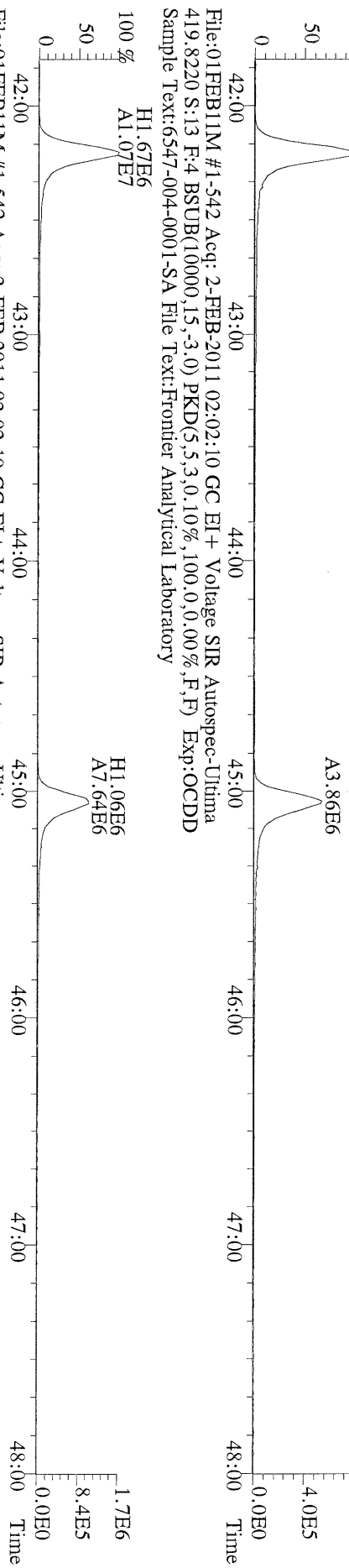
File:01FEB11M #1-476 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:13 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



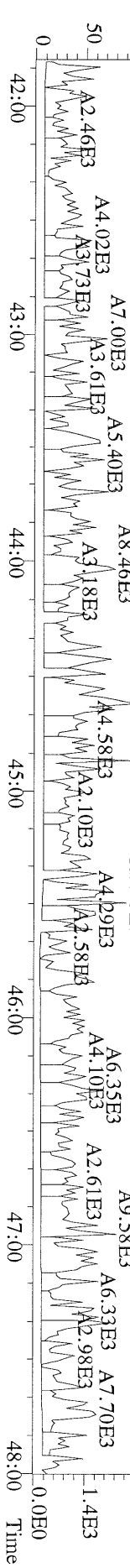
File:01FEB11M #1-542 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



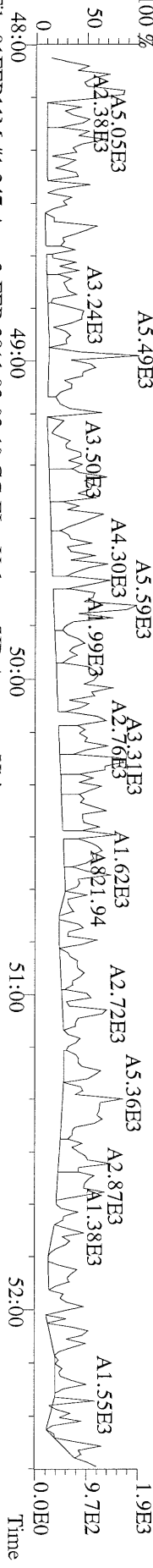
File:01FEB11M #1-542 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



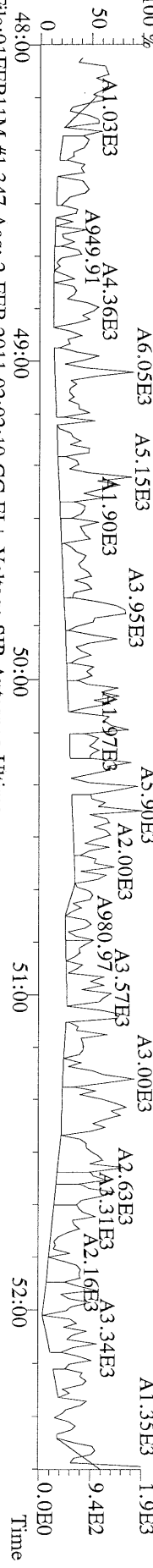
File:01FEB11M #1-542 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



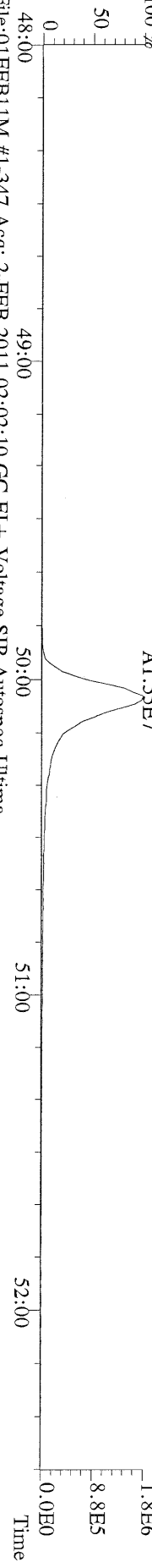
File:01FEB11M #1-347 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



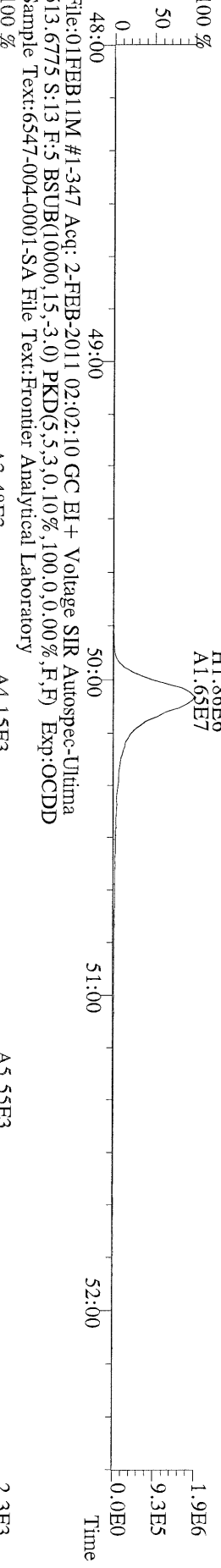
File:01FEB11M #1-347 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



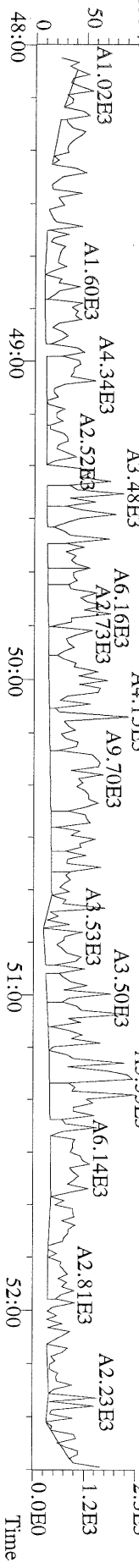
File:01FEB11M #1-347 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 2-FEB-2011 02:02:10 GC EI+ Voltage SIR Autospec-Utima
513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6547-004-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 23AUG10M

Analyte:

Cal: PCDDFAL3-8-23-10

Name	RRF	S. D.	%RSD	S3 RRF#1	S4 RRF#2	S5 RRF#3	S1 RRF#4	S6 RRF#5	S7 RRF#6
2,3,7,8-TCDD	1.11	0.0404	3.63 %	1.07	1.09	1.06	1.16	1.13	1.14
1,2,3,7,8-PeCDD	1.10	0.0456	4.14 %	1.03	1.08	1.09	1.11	1.15	1.15
1,2,3,4,7,8-HxCDD	1.37	0.0589	4.29 %	1.40	1.30	1.31	1.36	1.44	1.42
1,2,3,6,7,8-HxCDD	1.37	0.0522	3.80 %	1.30	1.38	1.39	1.32	1.43	1.42
1,2,3,7,8,9-HxCDD	1.36	0.0713	5.24 %	1.29	1.31	1.37	1.30	1.45	1.45
1,2,3,4,6,7,8-HpCDD	1.45	0.0199	1.37 %	1.43	1.47	1.45	1.44	1.45	1.48
OCDD	1.43	0.0834	5.81 %	1.37	1.37	1.42	1.44	1.42	1.59
2,3,7,8-TCDF	1.50	0.0738	4.91 %	1.57	1.60	1.50	1.40	1.47	1.48
1,2,3,7,8-PeCDF	0.94	0.0427	4.53 %	0.92	0.88	0.92	0.96	0.99	0.99
2,3,4,7,8-PeCDF	0.94	0.0501	5.35 %	0.88	0.90	0.91	0.93	0.99	1.00
1,2,3,4,7,8-HxCDF	0.93	0.0529	5.70 %	0.90	0.88	0.90	0.91	0.99	1.00
1,2,3,6,7,8-HxCDF	0.82	0.0486	5.91 %	0.75	0.79	0.82	0.83	0.87	0.88
2,3,4,6,7,8-HxCDF	0.92	0.0553	6.02 %	0.87	0.86	0.92	0.89	0.98	0.99
1,2,3,7,8,9-HxCDF	1.00	0.0728	7.30 %	0.90	0.94	0.99	1.00	1.08	1.08
1,2,3,4,6,7,8-HpCDF	1.39	0.0804	5.78 %	1.28	1.33	1.37	1.39	1.49	1.47
1,2,3,4,7,8,9-HpCDF	1.36	0.108	7.94 %	1.30	1.20	1.33	1.35	1.45	1.50
OCDF	0.79	0.0651	8.29 %	0.73	0.72	0.75	0.79	0.86	0.87
13C-2,3,7,8-TCDD	1.02	0.0764	7.46 %	0.98	0.98	0.97	0.98	1.15	1.08
13C-1,2,3,7,8-PeCDD	0.84	0.0798	9.48 %	0.79	0.79	0.79	0.79	0.95	0.93
13C-1,2,3,4,7,8-HxCDD	1.07	0.0580	5.40 %	1.06	1.03	1.06	1.01	1.12	1.16
13C-1,2,3,6,7,8-HxCDD	1.01	0.0164	1.62 %	1.00	1.00	1.00	1.02	1.03	1.03
13C-1,2,3,4,6,7,8-HpCDD	0.86	0.0467	5.45 %	0.82	0.82	0.84	0.83	0.90	0.93
13C-OCDD	0.55	0.0456	8.36 %	0.52	0.51	0.52	0.52	0.58	0.63
13C-2,3,7,8-TCDF	0.99	0.0775	7.79 %	0.97	0.92	0.93	0.96	1.12	1.05
13C-1,2,3,7,8-PeCDF	0.84	0.0816	9.74 %	0.78	0.78	0.79	0.79	0.95	0.93
13C-2,3,4,7,8-PeCDF	0.81	0.0728	8.97 %	0.77	0.75	0.76	0.78	0.91	0.90
13C-1,2,3,4,7,8-HxCDF	1.85	0.0371	2.00 %	1.82	1.85	1.85	1.81	1.91	1.88
13C-1,2,3,6,7,8-HxCDF	2.54	0.0434	1.71 %	2.55	2.51	2.52	2.51	2.62	2.51
13C-2,3,4,6,7,8-HxCDF	2.01	0.0361	1.79 %	2.00	2.00	1.98	2.00	2.08	2.03
13C-1,2,3,7,8,9-HxCDF	2.03	0.110	5.42 %	1.97	1.94	1.96	1.98	2.14	2.20
13C-1,2,3,4,6,7,8,9-HpCDF	1.11	0.0532	4.80 %	1.08	1.05	1.12	1.07	1.16	1.18
13C-1,2,3,4,7,8,9-HpCDF	0.80	0.0576	7.16 %	0.78	0.76	0.78	0.77	0.83	0.91
13C-OCDF	1.08	0.0934	8.63 %	1.00	1.00	1.05	1.05	1.16	1.23
37Cl-2,3,7,8-TCDD	0.69	0.0526	7.67 %	0.67	0.70	0.63	0.63	0.76	0.73
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
Total Tetra-Dioxins	1.11	0.0404	3.63 %	1.07	1.09	1.06	1.16	1.13	1.14
Total Penta-Dioxins	1.10	0.0456	4.14 %	1.03	1.08	1.09	1.11	1.15	1.15
Total Hexa-Dioxins	1.37	0.0513	3.75 %	1.33	1.33	1.36	1.33	1.44	1.43
Total Hepta-Dioxins	1.45	0.0199	1.37 %	1.43	1.47	1.45	1.44	1.45	1.48
Total Tetra-Furans	1.50	0.0738	4.91 %	1.57	1.60	1.50	1.40	1.47	1.48
1st Fn. Tot Penta-Furans	0.94	0.0454	4.83 %	0.90	0.89	0.91	0.95	0.99	0.99
Total Penta-Furans	0.94	0.0454	4.83 %	0.90	0.89	0.91	0.95	0.99	0.99
Total Hexa-Furans	0.91	0.0562	6.18 %	0.84	0.86	0.90	0.90	0.97	0.98
Total Hepta-Furans	1.38	0.0885	6.43 %	1.29	1.28	1.36	1.37	1.47	1.48

Analyst: 

Date: 8/24/10

Run #1 Filename 23AUG10M
Client ID: ST082310M0

S: 3 Acquired: 23-AUG-10 16:16:35 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS0 100511G

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	0.25	1.20e+05	0.73 y	27:27	-	1.07 y
2	Unk 1,2,3,7,8-PeCDD	1.25	4.64e+05	1.70 y	33:15	-	1.03 y
3	Unk 1,2,3,4,7,8-HxCDD	1.25	4.89e+05	1.42 y	38:38	-	1.40 y
4	Unk 1,2,3,6,7,8-HxCDD	1.25	4.28e+05	1.40 y	38:48	-	1.30 y
5	Unk 1,2,3,7,8,9-HxCDD	1.25	4.38e+05	1.41 y	39:14	-	1.29 y
6	Unk 1,2,3,4,6,7,8-HpCDD	1.25	3.88e+05	1.02 y	44:13	-	1.43 y
7	Unk OCDD	2.50	4.72e+05	1.00 y	49:47	-	1.37 y
8	Unk 2,3,7,8-TCDF	0.25	2.81e+05	0.67 y	26:41	-	1.57 y
9	Unk 1,2,3,7,8-PeCDF	1.25	6.57e+05	1.49 y	31:31	-	0.916 y
10	Unk 2,3,4,7,8-PeCDF	1.25	6.24e+05	1.48 y	32:50	-	0.883 y
11	Unk 1,2,3,4,7,8-HxCDF	1.25	5.37e+05	1.22 y	37:14	-	0.897 y
12	Unk 1,2,3,6,7,8-HxCDF	1.25	6.28e+05	1.31 y	37:25	-	0.747 y
13	Unk 2,3,4,6,7,8-HxCDF	1.25	5.72e+05	1.25 y	38:22	-	0.870 y
14	Unk 1,2,3,7,8,9-HxCDF	1.25	5.81e+05	1.15 y	39:48	-	0.897 y
15	Unk 1,2,3,4,6,7,8-HpCDF	1.25	4.57e+05	1.04 y	42:19	-	1.28 y
16	Unk 1,2,3,4,7,8,9-HpCDF	1.25	3.34e+05	0.99 y	45:09	-	1.30 y
17	Unk OCDF	2.50	4.80e+05	0.93 y	50:10	-	0.727 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.47e+07	0.85 y	27:24	-	0.976 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.60e+07	1.77 y	33:14	-	0.786 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.78e+07	1.26 y	38:36	-	1.06 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.63e+07	1.26 y	38:46	-	0.998 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.17e+07	1.00 y	44:13	-	0.825 y
23	IS 13C-OCDD	200.00	2.76e+07	1.00 y	49:46	-	0.523 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.17e+07	0.88 y	26:40	-	0.975 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.74e+07	1.74 y	31:30	-	0.780 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.65e+07	1.74 y	32:49	-	0.769 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.79e+07	0.55 y	37:12	-	1.82 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.72e+07	0.56 y	37:24	-	2.55 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.26e+07	0.58 y	38:20	-	2.00 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.54 y	39:47	-	1.97 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.84e+07	0.42 y	42:18	-	1.08 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.05e+07	0.43 y	45:08	-	0.778 y
33	IS 13C-OCDF	200.00	5.28e+07	0.95 y	50:09	-	1.00 y
34	C/Up 37Cl-2,3,7,8-TCDD	0.25	7.69e+04		27:26	-	0.671 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.58e+07	0.85 y	26:50	4.58e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.35e+07	0.87 y	25:35	7.35e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.64e+07	1.27 y	39:12	2.64e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.07 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.03 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.43 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.57 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.899 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.899 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.845 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.29 y

Analyst: 

Date: 8/24/10

Run #2 Filename 23AUG10M
Client ID: ST082310M1

S: 4 Acquired: 23-AUG-10 17:12:02 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS1 100511H

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	0.50	2.50e+05	0.74 y	27:27	-	1.09 y
2	Unk 1,2,3,7,8-PeCDD	2.50	9.93e+05	1.61 y	33:16	-	1.08 y
3	Unk 1,2,3,4,7,8-HxCDD	2.50	8.89e+05	1.42 y	38:37	-	1.30 y
4	Unk 1,2,3,6,7,8-HxCDD	2.50	9.16e+05	1.42 y	38:48	-	1.38 y
5	Unk 1,2,3,7,8,9-HxCDD	2.50	8.82e+05	1.39 y	39:14	-	1.31 y
6	Unk 1,2,3,4,6,7,8-HpCDD	2.50	8.00e+05	1.07 y	44:14	-	1.47 y
7	Unk OCDD	5.00	9.24e+05	0.99 y	49:48	-	1.37 y
8	Unk 2,3,7,8-TCDF	0.50	5.65e+05	0.69 y	26:41	-	1.60 y
9	Unk 1,2,3,7,8-PeCDF	2.50	1.31e+06	1.45 y	31:32	-	0.885 y
10	Unk 2,3,4,7,8-PeCDF	2.50	1.29e+06	1.43 y	32:51	-	0.896 y
11	Unk 1,2,3,4,7,8-HxCDF	2.50	1.08e+06	1.27 y	37:14	-	0.877 y
12	Unk 1,2,3,6,7,8-HxCDF	2.50	1.32e+06	1.22 y	37:26	-	0.790 y
13	Unk 2,3,4,6,7,8-HxCDF	2.50	1.14e+06	1.31 y	38:23	-	0.858 y
14	Unk 1,2,3,7,8,9-HxCDF	2.50	1.21e+06	1.23 y	39:48	-	0.938 y
15	Unk 1,2,3,4,6,7,8-HpCDF	2.50	9.30e+05	1.05 y	42:20	-	1.33 y
16	Unk 1,2,3,4,7,8,9-HpCDF	2.50	6.04e+05	1.06 y	45:09	-	1.20 y
17	Unk OCDF	5.00	9.66e+05	0.89 y	50:10	-	0.721 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.56e+07	0.84 y	27:25	-	0.980 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.68e+07	1.77 y	33:14	-	0.790 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.74e+07	1.32 y	38:36	-	1.03 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.22 y	38:46	-	0.996 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.18e+07	1.02 y	44:13	-	0.818 y
23	IS 13C-OCDD	200.00	2.71e+07	0.99 y	49:47	-	0.507 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.06e+07	0.86 y	26:40	-	0.923 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.94e+07	1.73 y	31:30	-	0.777 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.75e+07	1.68 y	32:49	-	0.752 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.93e+07	0.55 y	37:13	-	1.85 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.70e+07	0.55 y	37:24	-	2.51 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.33e+07	0.57 y	38:21	-	2.00 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.55 y	39:48	-	1.94 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.79e+07	0.44 y	42:18	-	1.05 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.02e+07	0.42 y	45:09	-	0.756 y
33	IS 13C-OCDF	200.00	5.36e+07	0.96 y	50:09	-	1.00 y
34	C/Up 37Cl-2,3,7,8-TCDD	0.50	1.62e+05		27:26	-	0.696 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.66e+07	0.83 y	26:51	4.66e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.65e+07	0.88 y	25:34	7.65e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.67e+07	1.27 y	39:13	2.67e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.09 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.08 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.47 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.60 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.890 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.890 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.860 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.28 y

Analyst: 

Date: 8/24/10

Run #3 Filename 23AUG10M
Client ID: ST082310M2

S: 5 Acquired: 23-AUG-10 18:07:23 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS2 100511I

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	2.00	9.56e+05	0.76 y	27:26	-	1.06 y
2	Unk 1,2,3,7,8-PeCDD	10.00	3.99e+06	1.62 y	33:15	-	1.09 y
3	Unk 1,2,3,4,7,8-HxCDD	10.00	3.69e+06	1.40 y	38:38	-	1.31 y
4	Unk 1,2,3,6,7,8-HxCDD	10.00	3.71e+06	1.40 y	38:47	-	1.39 y
5	Unk 1,2,3,7,8,9-HxCDD	10.00	3.75e+06	1.40 y	39:14	-	1.37 y
6	Unk 1,2,3,4,6,7,8-HpCDD	10.00	3.22e+06	1.04 y	44:14	-	1.45 y
7	Unk OCDD	20.00	3.97e+06	0.89 y	49:47	-	1.42 y
8	Unk 2,3,7,8-TCDF	2.00	2.12e+06	0.69 y	26:41	-	1.50 y
9	Unk 1,2,3,7,8-PeCDF	10.00	5.47e+06	1.50 y	31:32	-	0.916 y
10	Unk 2,3,4,7,8-PeCDF	10.00	5.23e+06	1.51 y	32:51	-	0.913 y
11	Unk 1,2,3,4,7,8-HxCDF	10.00	4.43e+06	1.30 y	37:14	-	0.900 y
12	Unk 1,2,3,6,7,8-HxCDF	10.00	5.48e+06	1.24 y	37:26	-	0.819 y
13	Unk 2,3,4,6,7,8-HxCDF	10.00	4.88e+06	1.33 y	38:22	-	0.924 y
14	Unk 1,2,3,7,8,9-HxCDF	10.00	5.17e+06	1.28 y	39:49	-	0.990 y
15	Unk 1,2,3,4,6,7,8-HpCDF	10.00	4.10e+06	1.03 y	42:19	-	1.37 y
16	Unk 1,2,3,4,7,8,9-HpCDF	10.00	2.76e+06	1.01 y	45:09	-	1.33 y
17	Unk OCDF	20.00	4.20e+06	0.92 y	50:11	-	0.753 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.51e+07	0.83 y	27:25	-	0.970 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.68e+07	1.77 y	33:14	-	0.792 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.81e+07	1.27 y	38:36	-	1.06 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.28 y	38:46	-	1.00 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.22e+07	1.02 y	44:13	-	0.835 y
23	IS 13C-OCDD	200.00	2.79e+07	0.95 y	49:47	-	0.524 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.06e+07	0.88 y	26:40	-	0.935 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.98e+07	1.74 y	31:30	-	0.791 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.73e+07	1.71 y	32:50	-	0.759 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.92e+07	0.55 y	37:13	-	1.85 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.70e+07	0.55 y	37:25	-	2.52 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.28e+07	0.56 y	38:21	-	1.98 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.23e+07	0.56 y	39:47	-	1.96 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.98e+07	0.43 y	42:18	-	1.12 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.07e+07	0.41 y	45:08	-	0.777 y
33	IS 13C-OCDF	200.00	5.58e+07	1.00 y	50:09	-	1.05 y
34	C/Up 37Cl-2,3,7,8-TCDD	2.00	5.87e+05		27:27	-	0.632 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.65e+07	0.85 y	26:50	4.65e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.56e+07	0.87 y	25:35	7.56e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.66e+07	1.26 y	39:13	2.66e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.06 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.09 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.36 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.45 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.50 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.914 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.914 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.902 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.36 y

Analyst: 

Date: 8/24/10

Run #4 Filename 23AUG10M
Client ID: ST082310M3

S: 1 Acquired: 23-AUG-10 14:25:46 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS3 100511J

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	10.00	5.04e+06	0.73 y	27:24	-	1.16 y
2	Unk 1,2,3,7,8-PeCDD	50.00	1.95e+07	1.64 y	33:14	-	1.11 y
3	Unk 1,2,3,4,7,8-HxCDD	50.00	1.81e+07	1.41 y	38:36	-	1.36 y
4	Unk 1,2,3,6,7,8-HxCDD	50.00	1.75e+07	1.39 y	38:46	-	1.32 y
5	Unk 1,2,3,7,8,9-HxCDD	50.00	1.74e+07	1.41 y	39:13	-	1.30 y
6	Unk 1,2,3,4,6,7,8-HpCDD	50.00	1.56e+07	1.04 y	44:13	-	1.44 y
7	Unk OCDD	100.00	1.96e+07	0.95 y	49:47	-	1.44 y
8	Unk 2,3,7,8-TCDF	10.00	9.40e+06	0.67 y	26:39	-	1.40 y
9	Unk 1,2,3,7,8-PeCDF	50.00	2.67e+07	1.53 y	31:30	-	0.959 y
10	Unk 2,3,4,7,8-PeCDF	50.00	2.56e+07	1.52 y	32:49	-	0.933 y
11	Unk 1,2,3,4,7,8-HxCDF	50.00	2.15e+07	1.29 y	37:12	-	0.905 y
12	Unk 1,2,3,6,7,8-HxCDF	50.00	2.72e+07	1.26 y	37:24	-	0.826 y
13	Unk 2,3,4,6,7,8-HxCDF	50.00	2.34e+07	1.24 y	38:21	-	0.892 y
14	Unk 1,2,3,7,8,9-HxCDF	50.00	2.60e+07	1.28 y	39:47	-	1.00 y
15	Unk 1,2,3,4,6,7,8-HpCDF	50.00	1.95e+07	1.04 y	42:18	-	1.39 y
16	Unk 1,2,3,4,7,8,9-HpCDF	50.00	1.37e+07	1.04 y	45:08	-	1.35 y
17	Unk OCDF	100.00	2.16e+07	0.93 y	50:09	-	0.785 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.35e+07	0.86 y	27:23	-	0.982 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.51e+07	1.77 y	33:13	-	0.793 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.66e+07	1.26 y	38:35	-	1.01 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.27 y	38:45	-	1.02 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.18e+07	1.04 y	44:11	-	0.830 y
23	IS 13C-OCDD	200.00	2.73e+07	0.93 y	49:45	-	0.521 y
24	IS 13C-2,3,7,8-TCDF	100.00	6.73e+07	0.86 y	26:38	-	0.959 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.57e+07	1.78 y	31:28	-	0.794 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.49e+07	1.74 y	32:48	-	0.783 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.74e+07	0.56 y	37:11	-	1.81 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.58e+07	0.55 y	37:23	-	2.51 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.25e+07	0.54 y	38:19	-	2.00 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.55 y	39:45	-	1.98 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.80e+07	0.42 y	42:17	-	1.07 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.02e+07	0.42 y	45:06	-	0.772 y
33	IS 13C-OCDF	200.00	5.49e+07	0.98 y	50:08	-	1.05 y
34	C/Up 37Cl-2,3,7,8-TCDD	10.00	2.77e+06		27:24	-	0.626 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.42e+07	0.84 y	26:49	4.42e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.01e+07	0.87 y	25:33	7.01e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.62e+07	1.28 y	39:11	2.62e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.16 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.11 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.44 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.40 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.946 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.946 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.902 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.37 y

Analyst: 

Date: 8/29/10

Run #5 Filename 23AUG10M
Client ID: ST082310M4

S: 6 Acquired: 23-AUG-10 19:02:46 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS4 100511K

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	40.00	2.29e+07	0.76 y	27:27	-	1.13 y
2	Unk 1,2,3,7,8-PeCDD	200.00	9.61e+07	1.62 y	33:16	-	1.15 y
3	Unk 1,2,3,4,7,8-HxCDD	200.00	9.66e+07	1.40 y	38:37	-	1.44 y
4	Unk 1,2,3,6,7,8-HxCDD	200.00	8.79e+07	1.41 y	38:47	-	1.43 y
5	Unk 1,2,3,7,8,9-HxCDD	200.00	9.29e+07	1.41 y	39:15	-	1.45 y
6	Unk 1,2,3,4,6,7,8-HpCDD	200.00	7.75e+07	1.03 y	44:14	-	1.45 y
7	Unk OCDD	400.00	9.77e+07	1.00 y	49:48	-	1.42 y
8	Unk 2,3,7,8-TCDF	40.00	4.55e+07	0.67 y	26:42	-	1.47 y
9	Unk 1,2,3,7,8-PeCDF	200.00	1.31e+08	1.55 y	31:31	-	0.991 y
10	Unk 2,3,4,7,8-PeCDF	200.00	1.25e+08	1.52 y	32:50	-	0.991 y
11	Unk 1,2,3,4,7,8-HxCDF	200.00	1.13e+08	1.27 y	37:14	-	0.995 y
12	Unk 1,2,3,6,7,8-HxCDF	200.00	1.35e+08	1.28 y	37:26	-	0.869 y
13	Unk 2,3,4,6,7,8-HxCDF	200.00	1.21e+08	1.26 y	38:23	-	0.979 y
14	Unk 1,2,3,7,8,9-HxCDF	200.00	1.38e+08	1.30 y	39:49	-	1.08 y
15	Unk 1,2,3,4,6,7,8-HpCDF	200.00	1.03e+08	1.03 y	42:19	-	1.49 y
16	Unk 1,2,3,4,7,8,9-HpCDF	200.00	7.19e+07	1.05 y	45:09	-	1.45 y
17	Unk OCDF	400.00	1.19e+08	0.92 y	50:11	-	0.860 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	5.05e+07	0.85 y	27:25	-	1.15 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	4.17e+07	1.76 y	33:14	-	0.955 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	3.35e+07	1.27 y	38:37	-	1.12 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	3.08e+07	1.28 y	38:46	-	1.03 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.67e+07	1.01 y	44:13	-	0.896 y
23	IS 13C-OCDD	200.00	3.44e+07	0.94 y	49:47	-	0.578 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.76e+07	0.88 y	26:41	-	1.12 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	6.59e+07	1.75 y	31:30	-	0.954 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	6.31e+07	1.73 y	32:49	-	0.913 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	5.67e+07	0.55 y	37:13	-	1.91 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	7.79e+07	0.55 y	37:25	-	2.62 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	6.19e+07	0.54 y	38:21	-	2.08 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	6.38e+07	0.54 y	39:48	-	2.14 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	3.44e+07	0.43 y	42:18	-	1.16 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.48e+07	0.43 y	45:08	-	0.832 y
33	IS 13C-OCDF	200.00	6.90e+07	0.99 y	50:09	-	1.16 y
34	C/Up 37Cl-2,3,7,8-TCDD	40.00	1.32e+07		27:27	-	0.757 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.37e+07	0.85 y	26:50	4.37e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	6.91e+07	0.87 y	25:35	6.91e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.98e+07	1.25 y	39:13	2.98e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.13 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.15 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.44 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.45 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.47 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.991 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.991 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.974 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.47 y


Analyst: 

Date: 8/24/10

Run #6 Filename 23AUG10M
Client ID: ST082310M5

S: 7 Acquired: 23-AUG-10 19:58:08 Cal: PCDDFAL3-8-23-10
Analyte: PCDDFAL3-8-23-10 FAL ID: 1613 CS5 100511L

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	200.00	1.06e+08	0.76 y	27:26	-	1.14 y
2	Unk 1,2,3,7,8-PeCDD	1000.00	4.58e+08	1.63 y	33:15	-	1.15 y
3	Unk 1,2,3,4,7,8-HxCDD	1000.00	4.92e+08	1.39 y	38:38	-	1.42 y
4	Unk 1,2,3,6,7,8-HxCDD	1000.00	4.34e+08	1.40 y	38:48	-	1.42 y
5	Unk 1,2,3,7,8,9-HxCDD	1000.00	4.72e+08	1.38 y	39:14	-	1.45 y
6	Unk 1,2,3,4,6,7,8-HpCDD	1000.00	4.12e+08	1.03 y	44:14	-	1.48 y
7	Unk OCDD	2000.00	5.93e+08	0.92 y	49:50	-	1.59 y
8	Unk 2,3,7,8-TCDF	200.00	2.14e+08	0.66 y	26:41	-	1.48 y
9	Unk 1,2,3,7,8-PeCDF	1000.00	6.33e+08	1.52 y	31:32	-	0.985 y
10	Unk 2,3,4,7,8-PeCDF	1000.00	6.21e+08	1.52 y	32:51	-	1.00 y
11	Unk 1,2,3,4,7,8-HxCDF	1000.00	5.58e+08	1.28 y	37:14	-	0.996 y
12	Unk 1,2,3,6,7,8-HxCDF	1000.00	6.54e+08	1.27 y	37:26	-	0.876 y
13	Unk 2,3,4,6,7,8-HxCDF	1000.00	5.98e+08	1.27 y	38:22	-	0.989 y
14	Unk 1,2,3,7,8,9-HxCDF	1000.00	7.04e+08	1.28 y	39:49	-	1.08 y
15	Unk 1,2,3,4,6,7,8-HpCDF	1000.00	5.19e+08	1.05 y	42:20	-	1.47 y
16	Unk 1,2,3,4,7,8,9-HpCDF	1000.00	4.06e+08	1.08 y	45:09	-	1.50 y
17	Unk OCDF	2000.00	6.38e+08	0.93 y	50:12	-	0.869 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.62e+07	0.84 y	27:25	-	1.08 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	4.00e+07	1.76 y	33:15	-	0.933 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	3.46e+07	1.27 y	38:37	-	1.16 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	3.07e+07	1.25 y	38:46	-	1.03 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.78e+07	1.04 y	44:13	-	0.932 y
23	IS 13C-OCDD	200.00	3.72e+07	0.93 y	49:49	-	0.625 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.26e+07	0.87 y	26:40	-	1.05 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	6.43e+07	1.73 y	31:30	-	0.931 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	6.19e+07	1.73 y	32:49	-	0.896 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	5.60e+07	0.55 y	37:13	-	1.88 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	7.47e+07	0.56 y	37:25	-	2.51 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	6.05e+07	0.56 y	38:21	-	2.03 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	6.55e+07	0.54 y	39:47	-	2.20 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	3.52e+07	0.44 y	42:18	-	1.18 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.71e+07	0.42 y	45:08	-	0.909 y
33	IS 13C-OCDF	200.00	7.35e+07	0.99 y	50:11	-	1.23 y
34	C/Up 37Cl-2,3,7,8-TCDD	200.00	6.26e+07		27:26	-	0.731 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.28e+07	0.84 y	26:50	4.28e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	6.91e+07	0.87 y	25:34	6.91e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.98e+07	1.25 y	39:13	2.98e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.15 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.43 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.48 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.48 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.994 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.994 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.980 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.48 y

Analyst: 

Date: 8/24/10

USEPA - ITD

FORM 3A

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3 GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.07	1.09	1.06	1.16	1.13	1.14	1.11	3.63
1,2,3,7,8-PeCDD	1.03	1.08	1.09	1.11	1.15	1.15	1.10	4.14
1,2,3,4,7,8-HxCDD	1.40	1.30	1.31	1.36	1.44	1.42	1.37	4.29
1,2,3,6,7,8-HxCDD	1.30	1.38	1.39	1.32	1.43	1.42	1.37	3.80
1,2,3,7,8,9-HxCDD	1.29	1.31	1.37	1.30	1.45	1.45	1.36	5.24
1,2,3,4,6,7,8-HpCDD	1.43	1.47	1.45	1.44	1.45	1.48	1.45	1.37
OCDD	1.37	1.37	1.42	1.44	1.42	1.59	1.43	5.81
2,3,7,8-TCDF	1.57	1.60	1.50	1.40	1.47	1.48	1.50	4.91
1,2,3,7,8-PeCDF	0.92	0.88	0.92	0.96	0.99	0.99	0.94	4.53
2,3,4,7,8-PeCDF	0.88	0.90	0.91	0.93	0.99	1.00	0.94	5.35
1,2,3,4,7,8-HxCDF	0.90	0.88	0.90	0.91	0.99	1.00	0.93	5.70
1,2,3,6,7,8-HxCDF	0.75	0.79	0.82	0.83	0.87	0.88	0.82	5.91
2,3,4,6,7,8-HxCDF	0.87	0.86	0.92	0.89	0.98	0.99	0.92	6.02
1,2,3,7,8,9-HxCDF	0.90	0.94	0.99	1.00	1.08	1.08	1.00	7.30
1,2,3,4,6,7,8-HpCDF	1.28	1.33	1.37	1.39	1.49	1.47	1.39	5.78
1,2,3,4,7,8,9-HpCDF	1.30	1.20	1.33	1.35	1.45	1.50	1.36	7.94
OCDF	0.73	0.72	0.75	0.79	0.86	0.87	0.79	8.29

Analyst: Date: 8/24/10

USEPA - ITD

FORM 3B

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS4 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

RELATIVE RESPONSE (RR)

MEAN
RR Cv
(%RSD)

LABELED COMPOUNDS	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	0.98	0.98	0.97	0.98	1.15	1.08	1.02	7.46
13C-1,2,3,7,8-PeCDD	0.79	0.79	0.79	0.79	0.95	0.93	0.84	9.48
13C-1,2,3,4,7,8-HxCDD	1.06	1.03	1.06	1.01	1.12	1.16	1.07	5.40
13C-1,2,3,6,7,8-HxCDD	1.00	1.00	1.00	1.02	1.03	1.03	1.01	1.62
13C-1,2,3,4,6,7,8-HpCDD	0.82	0.82	0.84	0.83	0.90	0.93	0.86	5.45
13C-OCDD	0.52	0.51	0.52	0.52	0.58	0.63	0.55	8.36
13C-2,3,7,8-TCDF	0.97	0.92	0.93	0.96	1.12	1.05	0.99	7.79
13C-1,2,3,7,8-PeCDF	0.78	0.78	0.79	0.79	0.95	0.93	0.84	9.74
13C-2,3,4,7,8-PeCDF	0.77	0.75	0.76	0.78	0.91	0.90	0.81	8.97
13C-1,2,3,4,7,8-HxCDF	1.82	1.85	1.85	1.81	1.91	1.88	1.85	2.00
13C-1,2,3,6,7,8-HxCDF	2.55	2.51	2.52	2.51	2.62	2.51	2.54	1.71
13C-2,3,4,6,7,8-HxCDF	2.00	2.00	1.98	2.00	2.08	2.03	2.01	1.79
13C-1,2,3,7,8,9-HxCDF	1.97	1.94	1.96	1.98	2.14	2.20	2.03	5.42
13C-1,2,3,4,6,7,8-HpCDF	1.08	1.05	1.12	1.07	1.16	1.18	1.11	4.80
13C-1,2,3,4,7,8,9-HpCDF	0.78	0.76	0.78	0.77	0.83	0.91	0.80	7.16
13C-OCDF	1.00	1.00	1.05	1.05	1.16	1.23	1.08	8.63
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.67	0.70	0.63	0.63	0.76	0.73	0.69	7.67

Analyst: Date: 8/24/10

USEPA - ITD

FORM 3C

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.73	0.74	0.76	0.73	0.76	0.76	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.61	1.62	1.64	1.62	1.63	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.42	1.42	1.40	1.41	1.40	1.39	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.40	1.42	1.40	1.39	1.41	1.40	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.41	1.39	1.40	1.41	1.41	1.38	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	1.07	1.04	1.04	1.03	1.03	0.88-1.20
OCDD	M+2/M+4	1.00	0.99	0.89	0.95	1.00	0.92	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.67	0.69	0.69	0.67	0.67	0.66	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.45	1.50	1.53	1.55	1.52	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.43	1.51	1.52	1.52	1.52	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.27	1.30	1.29	1.27	1.28	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.31	1.22	1.24	1.26	1.28	1.27	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.31	1.33	1.24	1.26	1.27	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.15	1.23	1.28	1.28	1.30	1.28	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.05	1.03	1.04	1.03	1.05	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	1.06	1.01	1.04	1.05	1.08	0.88-1.20
OCDF	M+2/M+4	0.93	0.89	0.92	0.93	0.92	0.93	0.76-1.02

Analyst: Date: 8/24/10

USEPA - ITD

FORM 3D

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

Labeled Compounds	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
13C-2,3,7,8-TCDD	M/M+2	0.85	0.84	0.83	0.86	0.85	0.84	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.77	1.77	1.77	1.76	1.76	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.32	1.27	1.26	1.27	1.27	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.22	1.28	1.27	1.28	1.25	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	1.02	1.02	1.04	1.01	1.04	0.88-1.20
13C-OCDD	M+2/M+4	1.00	0.99	0.95	0.93	0.94	0.93	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.88	0.86	0.88	0.86	0.88	0.87	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.74	1.73	1.74	1.78	1.75	1.73	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.68	1.71	1.74	1.73	1.73	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.55	0.55	0.55	0.56	0.55	0.55	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.56	0.55	0.55	0.55	0.55	0.56	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.58	0.57	0.56	0.54	0.54	0.56	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.55	0.56	0.55	0.54	0.54	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.44	0.43	0.42	0.43	0.44	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.42	0.41	0.42	0.43	0.42	0.37-0.51
13C-OCDF	M+2/M+4	0.95	0.96	1.00	0.98	0.99	0.99	0.76-1.02

Analyst: Date: 8/24/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

VER Data Filename: 23AUG10M Sam:1

Analysis Date: 23-AUG-10 14:25:46

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.86	0.65-0.89	y	95.9	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.32-1.78	y	94.2	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	94.5	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	100	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	97.0	72.0 - 138
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	191	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	96.5	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.78	1.32-1.78	y	94.8	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.32-1.78	y	96.5	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.56	0.43-0.59	y	97.7	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	99.0	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	99.4	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.55	0.43-0.59	y	97.2	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.37-0.51	y	96.4	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.42	0.37-0.51	y	96.0	77.0 - 129
13C-OCDF	M+2/M+4	0.98	0.76-1.02	y	194	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.14	7.80 - 12.8

(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.

Analyst: Date: 

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

Analysis Date: 23-AUG-10 14:25:46

CS3 or VER Data Filename: 23AUG10M

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 8/24/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

Analysis Date: 23-AUG-10 14:25:46

CS3 or VER Data Filename: 23AUG10M

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.001	0.999-1.001
OCDD	13C-OCDD	1.001	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.985	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.989	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154
13C-OCDD		1.270	1.032-1.311
13C-OCDF		1.279	1.000-1.311

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 8/24/10

FAL ID: ST082310M3 Filename: 23AUG10M Sam:1 Acquired: 23-AUG-10 14:25:46 ICal: PCDDFAL3-8-23-10
 Client ID: 1613 CS3 100511J ConCal: ST082310M3 EndCal: ST082310M6

Results:		GC Column: db5	Amount: 1.000	NATO 1989 Tox:	100	WHO 1998 Tox:	125	WHO 2005 Tox:	114
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL
2,3,7,8-TCDD	5.04e+06	0.73 y	27:24	1.11	10.4		2.50	-	*
1,2,3,7,8-PeCDD	1.95e+07	1.64 y	33:14	1.10	50.6		2.50	-	*
1,2,3,4,7,8-HxCDD	1.81e+07	1.41 y	38:36	1.37	49.6		2.50	-	*
1,2,3,6,7,8-HxCDD	1.75e+07	1.39 y	38:46	1.37	48.0		2.50	-	*
1,2,3,7,8,9-HxCDD	1.74e+07	1.41 y	39:13	1.36	47.9		2.50	-	*
1,2,3,4,6,7,8-HpCDD	1.56e+07	1.04 y	44:13	1.45	49.5		2.50	-	*
OCDD	1.96e+07	0.95 y	49:47	1.43	100		2.50	-	*
2,3,7,8-TCDF	9.40e+06	0.67 y	26:39	1.50	9.30		2.50	-	*
1,2,3,7,8-PeCDF	2.67e+07	1.53 y	31:30	0.94	50.9		2.50	-	*
2,3,4,7,8-PeCDF	2.56e+07	1.52 y	32:49	0.94	49.8		2.50	-	*
1,2,3,4,7,8-HxCDF	2.15e+07	1.29 y	37:12	0.93	48.8		2.50	-	*
1,2,3,6,7,8-HxCDF	2.72e+07	1.26 y	37:24	0.82	50.3		2.50	-	*
2,3,4,6,7,8-HxCDF	2.34e+07	1.24 y	38:21	0.92	48.5		2.50	-	*
1,2,3,7,8,9-HxCDF	2.60e+07	1.28 y	39:47	1.00	50.3		2.50	-	*
1,2,3,4,6,7,8-HpCDF	1.95e+07	1.04 y	42:18	1.39	49.9		2.50	-	*
1,2,3,4,7,8,9-HpCDF	1.37e+07	1.04 y	45:08	1.36	49.8		2.50	-	*
OCDF	2.16e+07	0.93 y	50:09	0.79	99.9		2.50	-	*
									Rec
13C-2,3,7,8-TCDD	4.35e+07	0.86 y	27:23	1.02	95.9				95.9
13C-1,2,3,7,8-PeCDD	3.51e+07	1.77 y	33:13	0.84	94.2				94.2
13C-1,2,3,4,7,8-HxCDD	2.66e+07	1.26 y	38:35	1.07	94.5				94.5
13C-1,2,3,6,7,8-HxCDD	2.66e+07	1.27 y	38:45	1.01	100				100
13C-1,2,3,4,6,7,8-HpCDD	2.18e+07	1.04 y	44:11	0.86	97.0				97.0
13C-OCDD	2.73e+07	0.93 y	49:45	0.55	191				95.3
13C-2,3,7,8-TCDF	6.73e+07	0.86 y	26:38	0.99	96.5				96.5
13C-1,2,3,7,8-PeCDF	5.57e+07	1.78 y	31:28	0.84	94.8				94.8
13C-2,3,4,7,8-PeCDF	5.49e+07	1.74 y	32:48	0.81	96.5				96.5
13C-1,2,3,4,7,8-HxCDF	4.74e+07	0.56 y	37:11	1.85	97.7				97.7
13C-1,2,3,6,7,8-HxCDF	6.58e+07	0.55 y	37:23	2.54	99.0				99.0
13C-2,3,4,6,7,8-HxCDF	5.25e+07	0.54 y	38:19	2.01	99.4				99.4
13C-1,2,3,7,8,9-HxCDF	5.18e+07	0.55 y	39:45	2.03	97.2				97.2
13C-1,2,3,4,6,7,8-HpCDF	2.80e+07	0.42 y	42:17	1.11	96.4				96.4
13C-1,2,3,4,7,8,9-HpCDF	2.02e+07	0.42 y	45:06	0.80	96.0				96.0
13C-OCDF	5.49e+07	0.98 y	50:08	1.08	194				96.8
37Cl-2,3,7,8-TCDD	2.77e+06		27:24	0.69	9.14				91.4
13C-1,2,3,4-TCDD	4.42e+07	0.84 y	26:49	-	98.4				
13C-1,2,3,4-TCDF	7.01e+07	0.87 y	25:33	-	97.0				
13C-1,2,3,7,8,9-HxCDD	2.62e+07	1.28 y	39:11	-	95.1				
									DL
Total Tetra-Dioxins	2.58e+07		24:24	1.11	53.5		2.50	-	*
Total Penta-Dioxins	4.23e+07		30:15	1.10	109		2.50	-	*
Total Hexa-Dioxins	6.03e+07		36:08	1.37	165		2.50	-	*
Total Hepta-Dioxins	3.51e+07		42:49	1.45	111		2.50	-	*
Total Tetra-Furans	4.14e+07		23:04	1.50	41.0		2.50	-	*
1st Fn. Tot Penta-Furans	3.21e+07		28:25	0.94	61.7		2.50	-	*
Total Penta-Furans	7.50e+07		30:12	0.94	144		2.50	-	*
Total Hexa-Furans	1.14e+08		35:15	0.91	230		2.50	-	*
Total Hepta-Furans	3.43e+07		42:18	1.38	103		2.50	-	*

Analyst: 

Date: 8/24/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:23AUG10M

Instrument: FAL3

GC: DB5

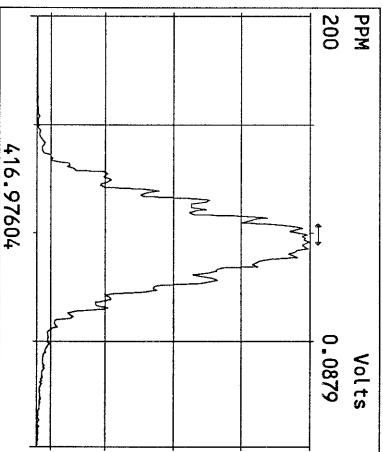
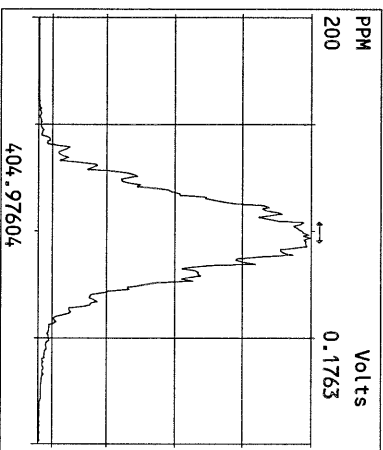
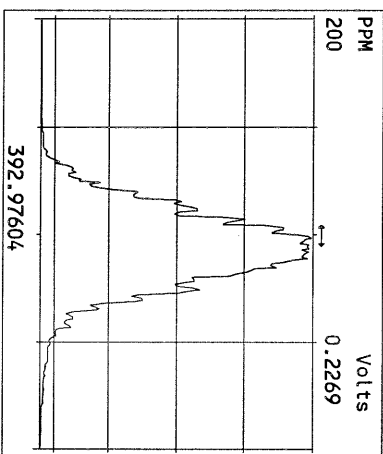
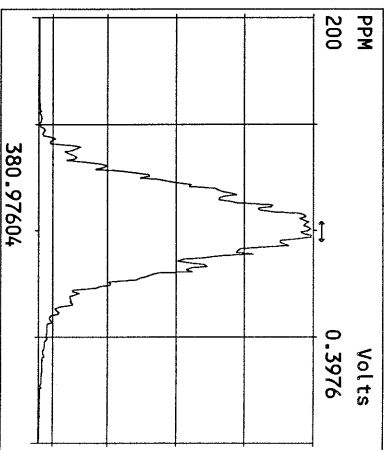
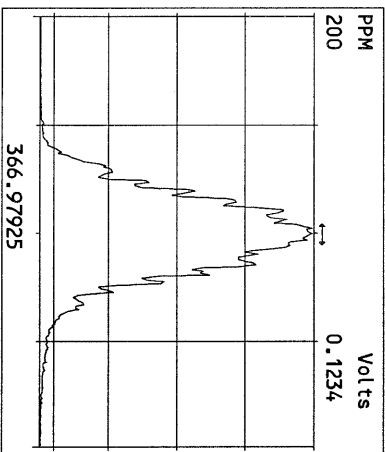
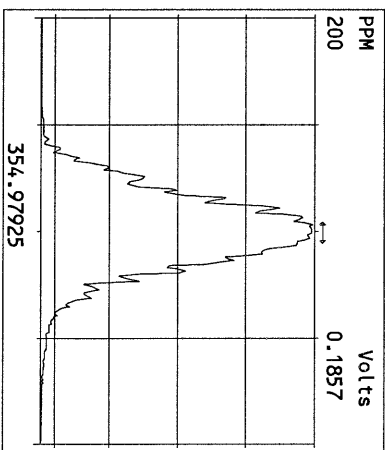
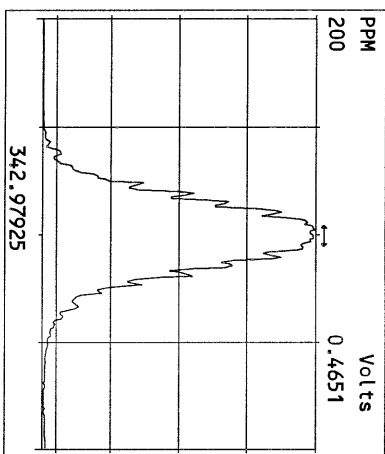
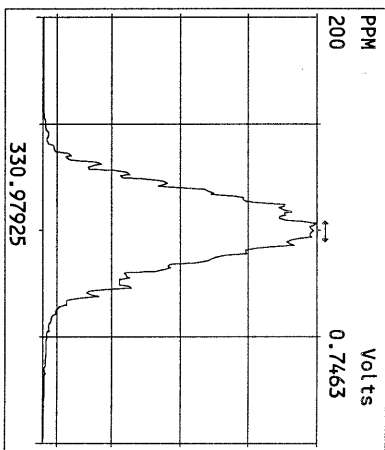
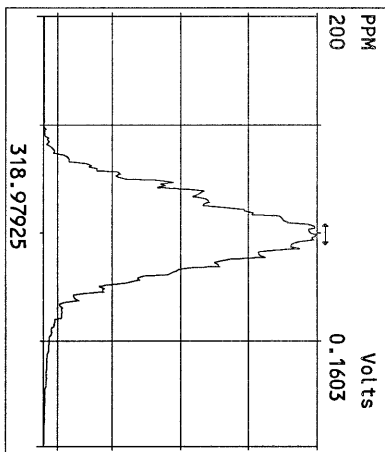
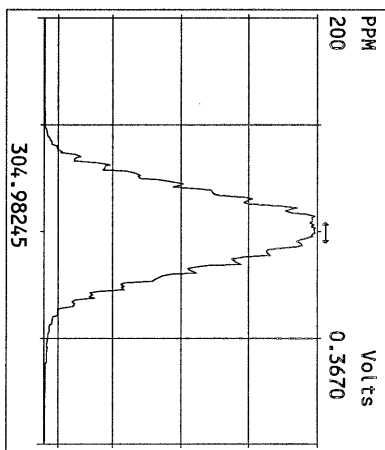
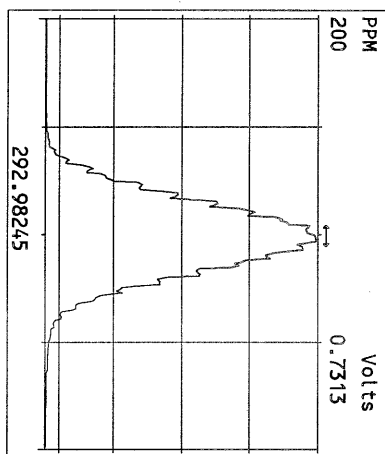
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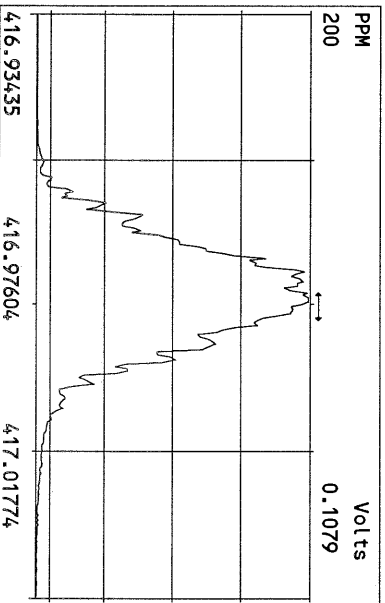
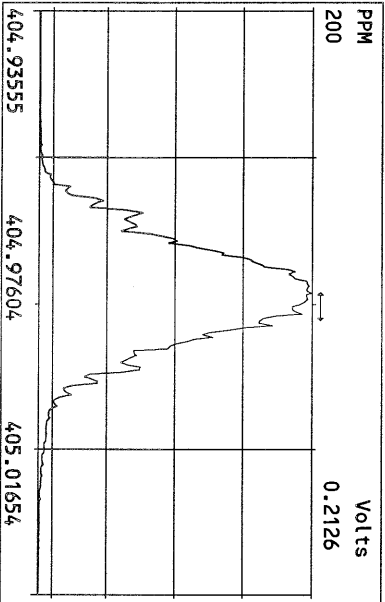
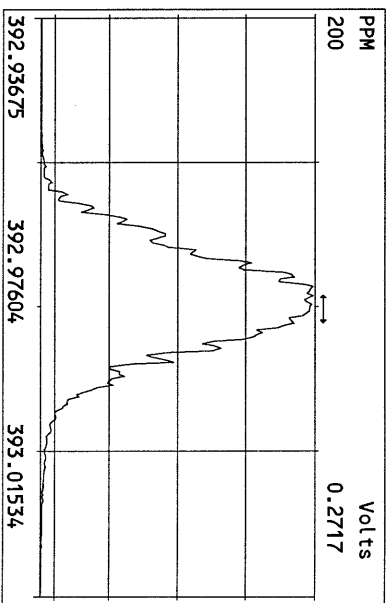
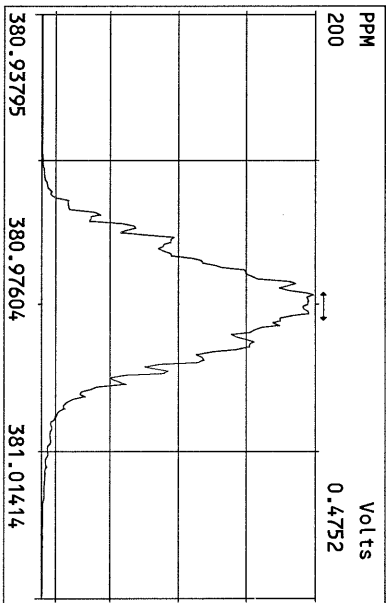
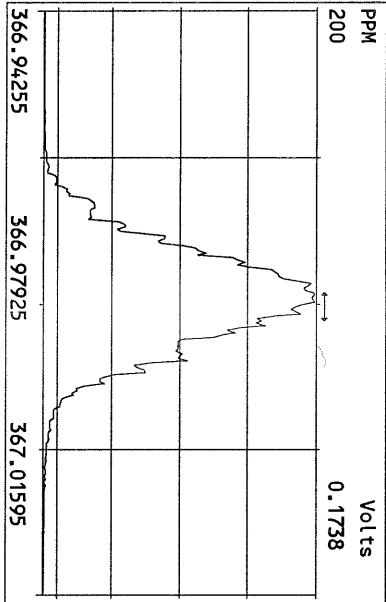
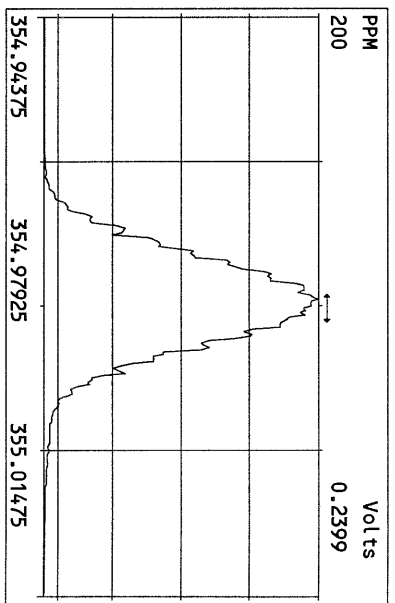
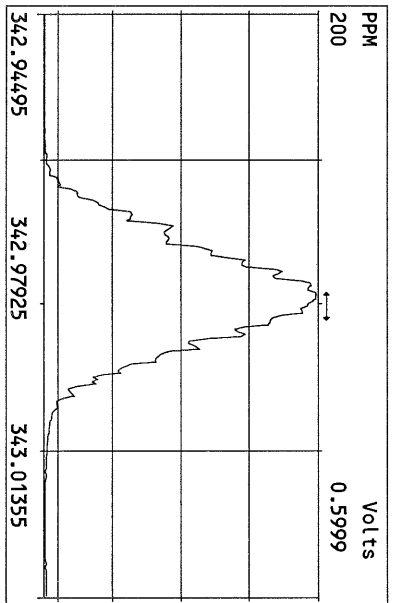
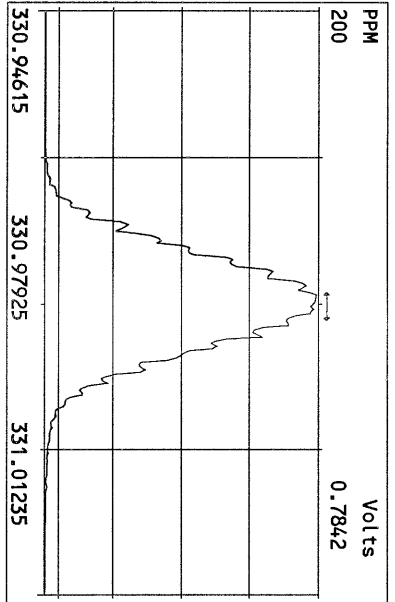
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23AUG10M 3	ST082310M0	1613 CS0 100511G	23-AUG-10 16:16:35	NA	NA	BS
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23AUG10M 5	ST082310M2	1613 CS2 100511I	23-AUG-10 18:07:23	NA	NA	BS
23AUG10M 6	ST082310M4	1613 CS4 100511K	23-AUG-10 19:02:46	NA	NA	BS
23AUG10M 7	ST082310M5	1613 CS5 100511L	23-AUG-10 19:58:08	NA	NA	BS
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23AUG10M 10	ST082310M6	1613 CS3 100511J	23-AUG-10 22:44:05	ST082310M3	ST082310M6	BS
23AUG10M 11	ST082310M7	8280 CS3 071227J	23-AUG-10 23:39:28	ST082310M7	ST082310M8	BS
23AUG10M 12	SB082310M2	Solvent Blank	24-AUG-10 00:34:46	ST082310M7	ST082310M8	BS
23AUG10M 13	2088-001-0001-MB	Method Blank	24-AUG-10 01:30:01	ST082310M7	ST082310M8	BS
23AUG10M 14	6263-001-0001-SA	MDL 1	24-AUG-10 02:25:23	ST082310M7	ST082310M8	BS
23AUG10M 15	6263-002-0001-SA	MDL 2	24-AUG-10 03:20:43	ST082310M7	ST082310M8	BS
23AUG10M 16	6263-003-0001-SA	MDL 3	24-AUG-10 04:16:04	ST082310M7	ST082310M8	BS
23AUG10M 17	6263-004-0001-SA	MDL 4	24-AUG-10 05:11:22	ST082310M7	ST082310M8	BS
23AUG10M 18	6263-005-0001-SA	MDL 5	24-AUG-10 06:06:41	ST082310M7	ST082310M8	BS
23AUG10M 19	6263-006-0001-SA	MDL 6	24-AUG-10 07:02:01	ST082310M7	ST082310M8	BS
23AUG10M 20	6263-007-0001-SA	MDL 7	24-AUG-10 07:57:23	ST082310M7	ST082310M8	BS
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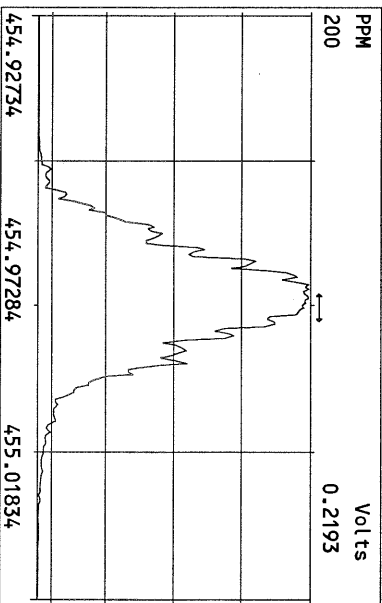
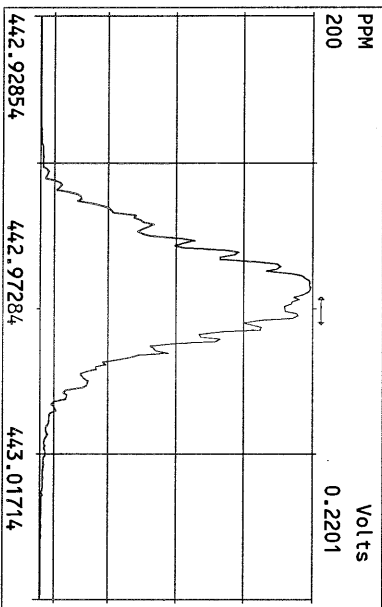
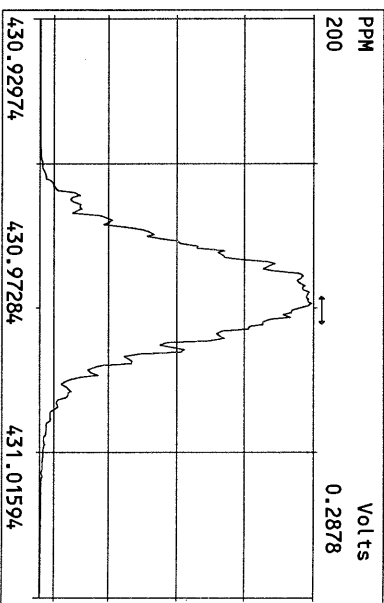
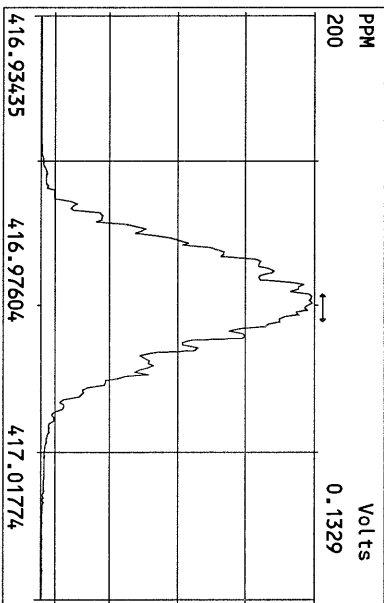
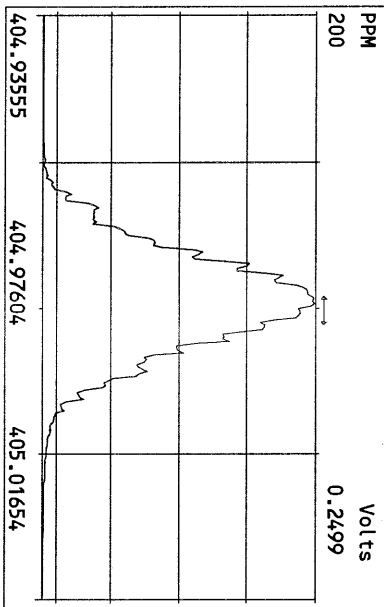
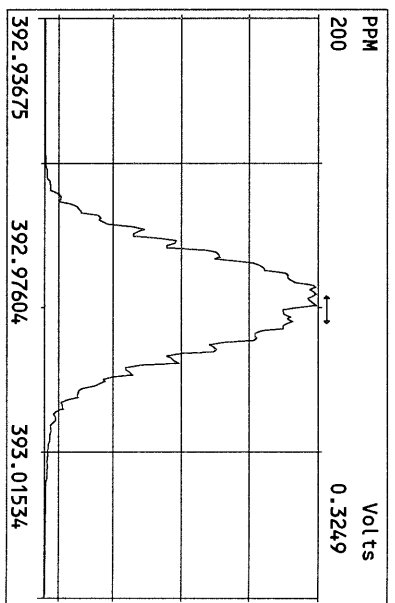
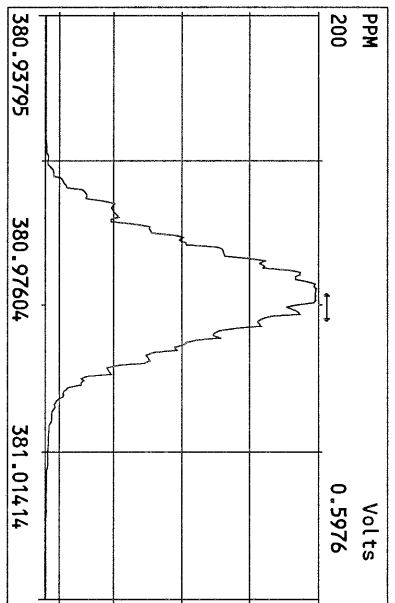
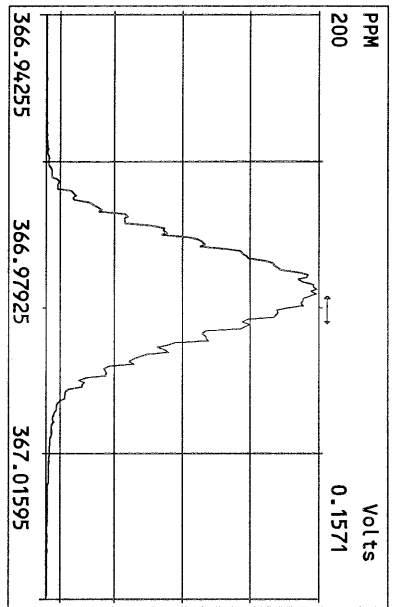
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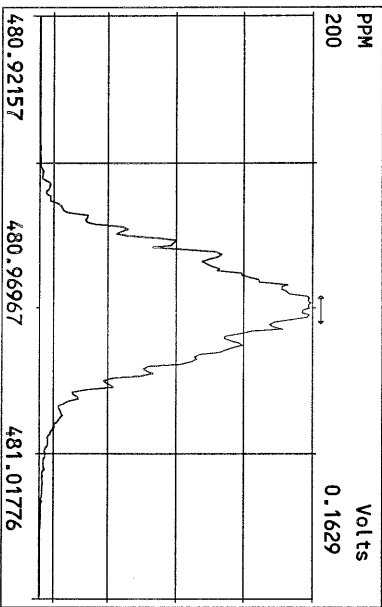
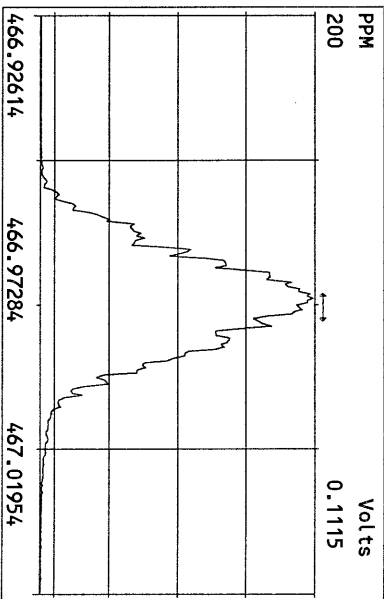
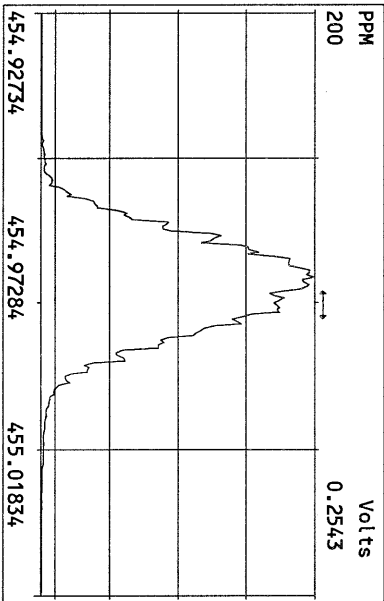
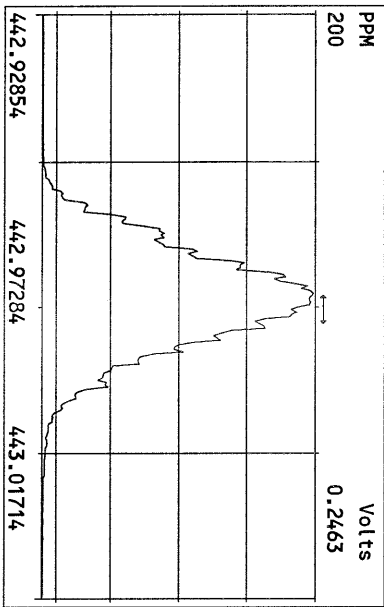
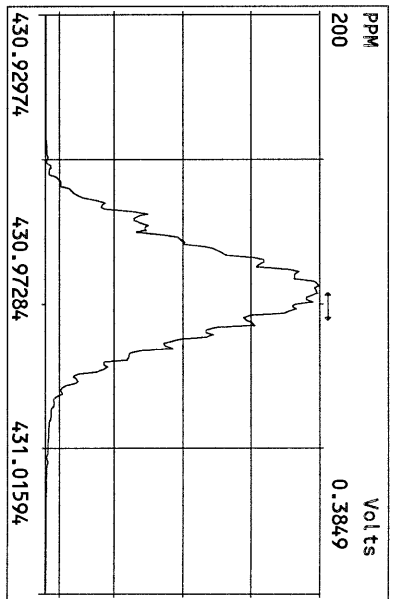
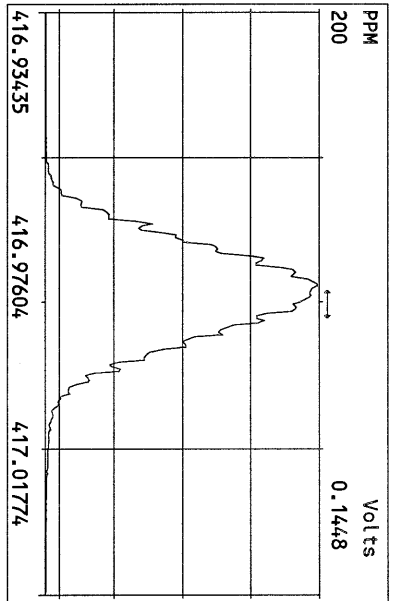
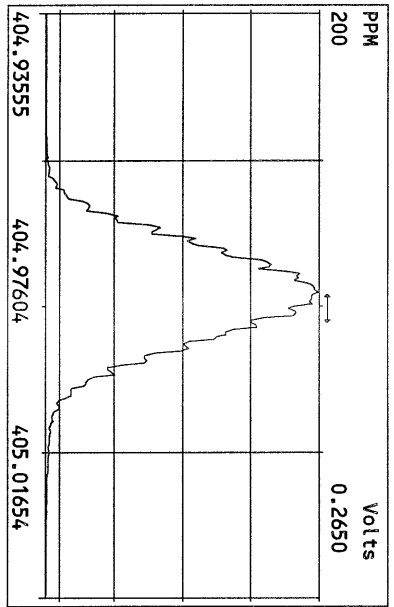
Data Backed Up: _____

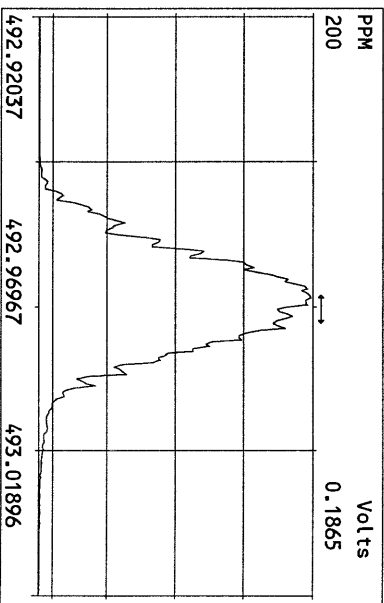
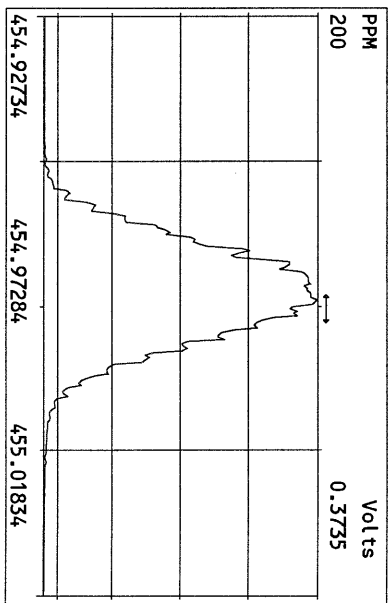
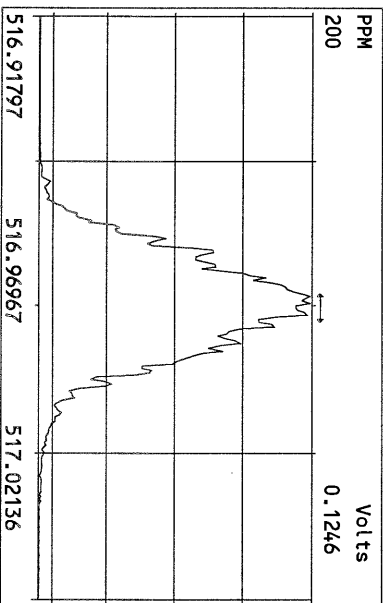
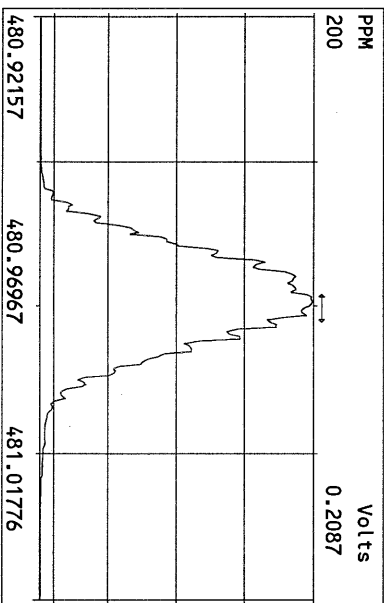
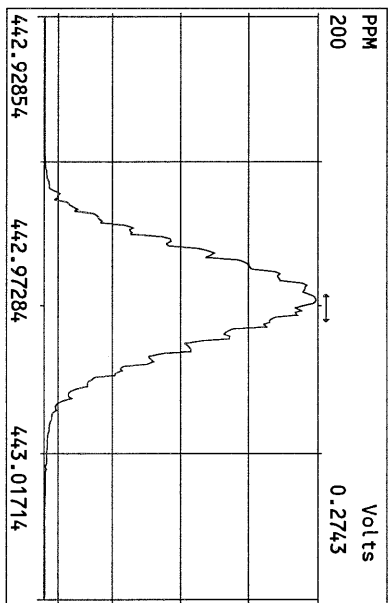
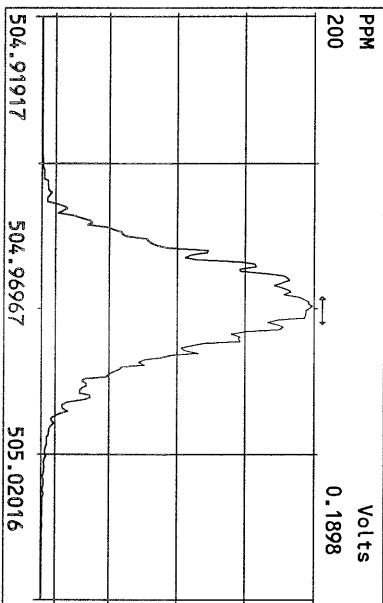
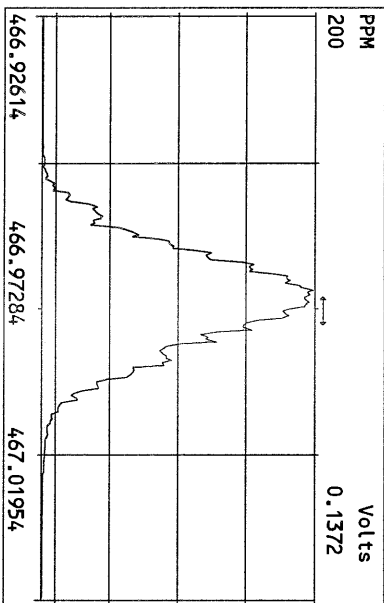
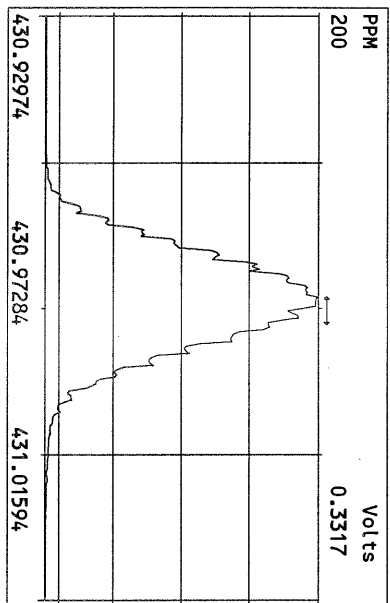
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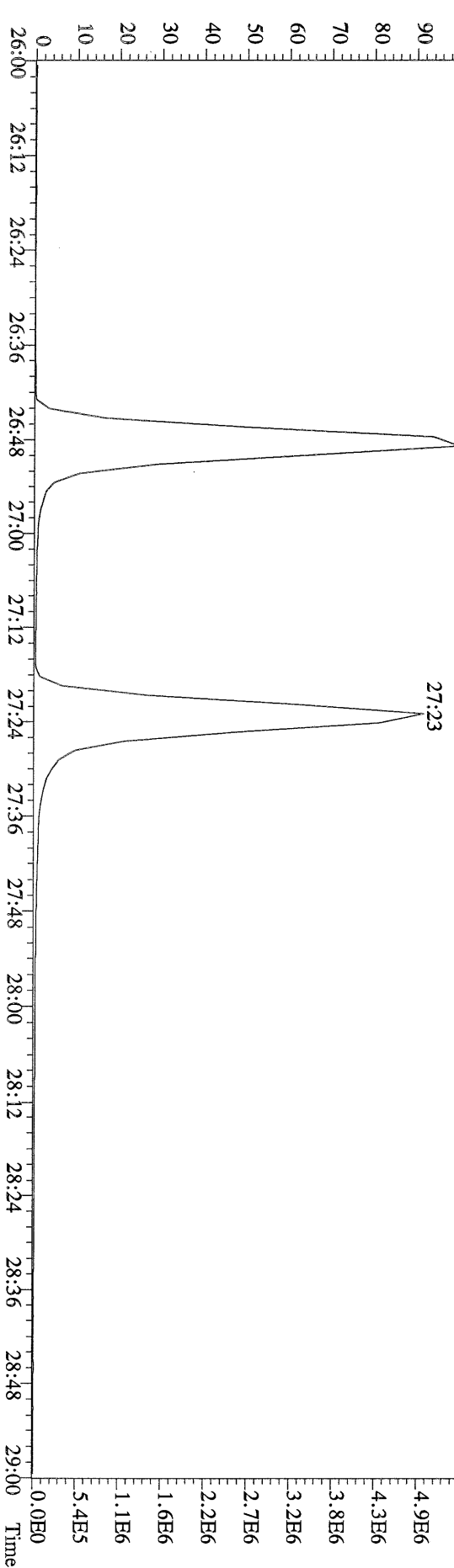
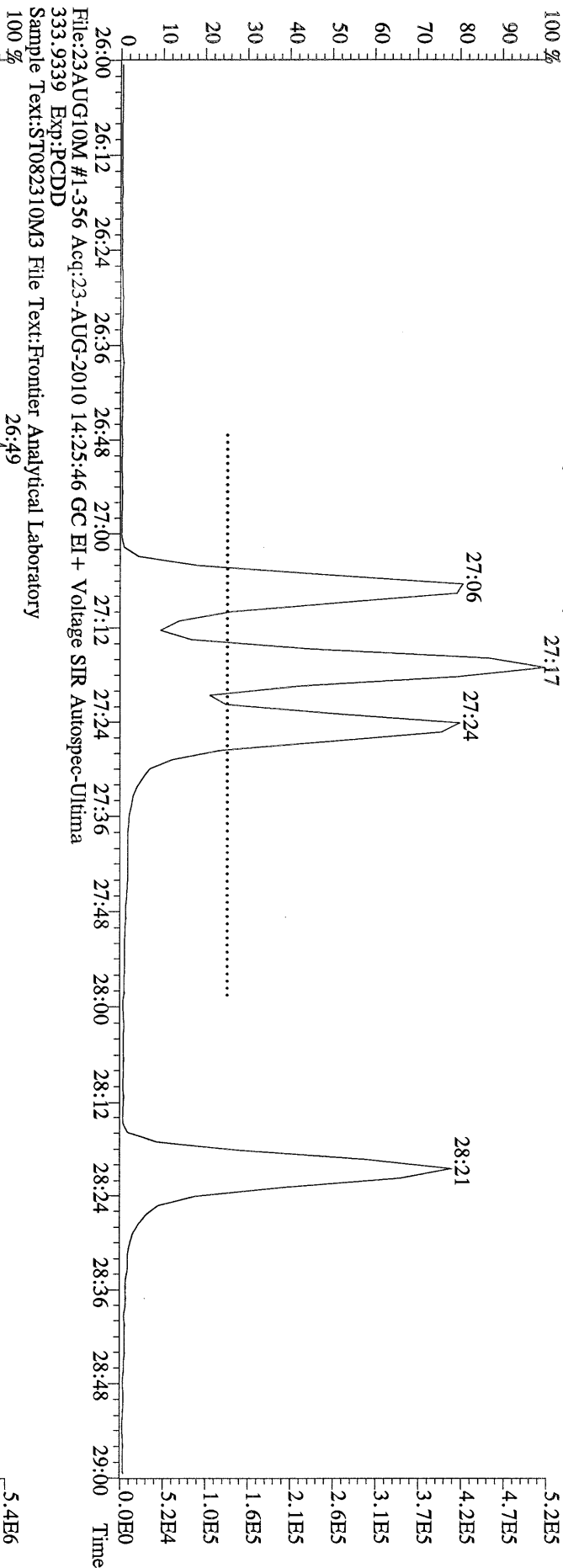




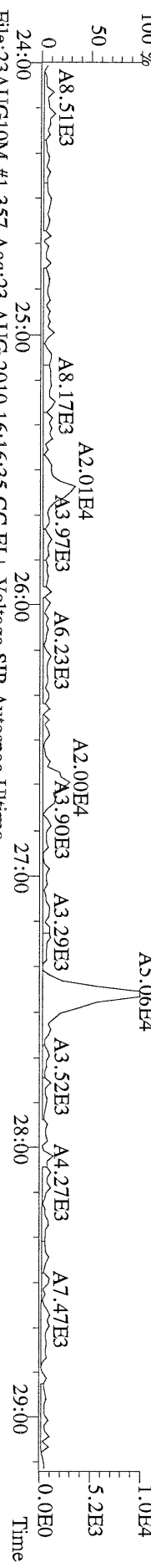




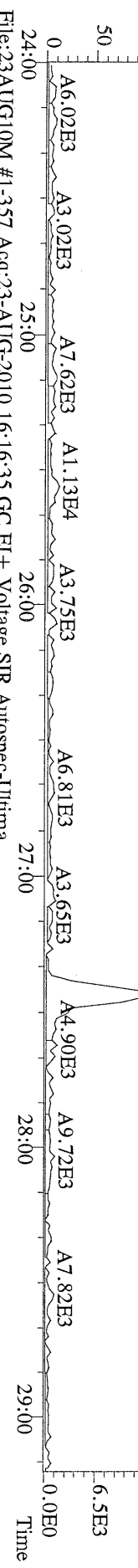
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
319,8965 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



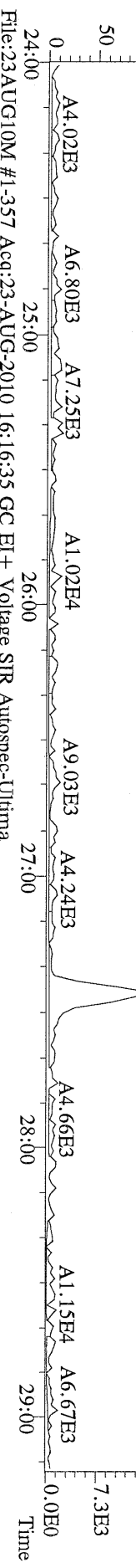
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



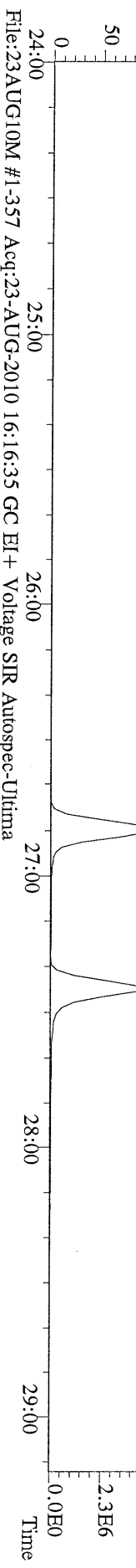
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321.8936 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



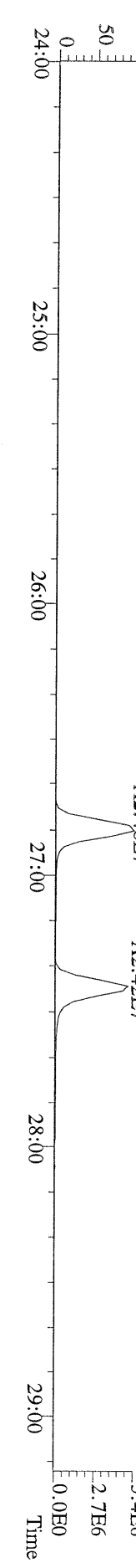
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



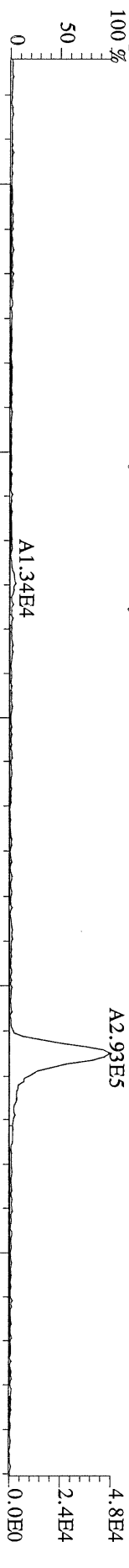
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



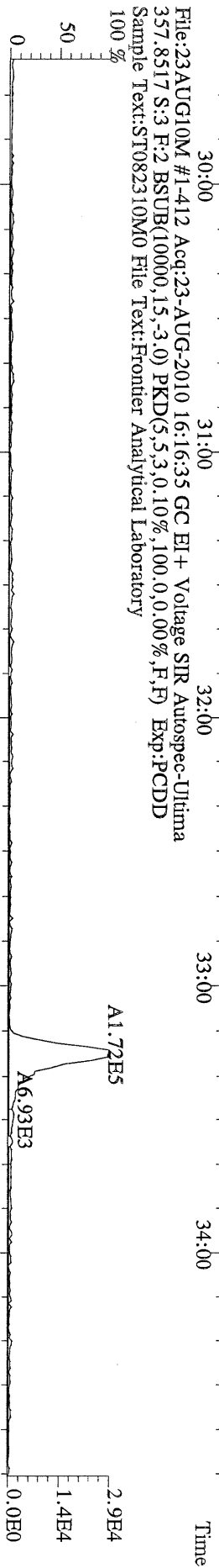
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333.9339 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



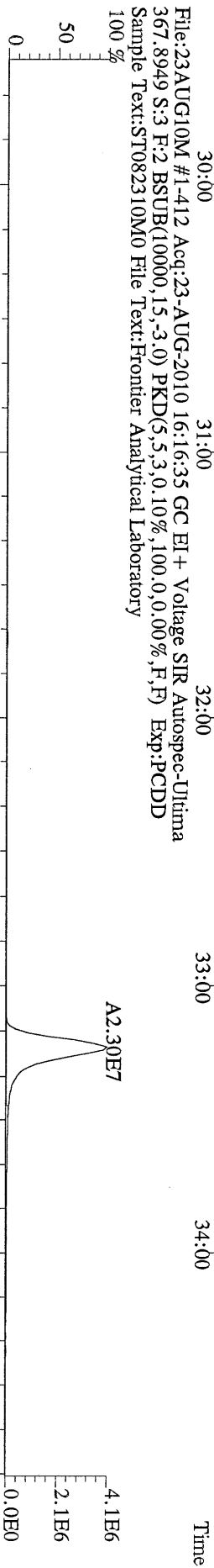
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
355,8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 %



File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
357,8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 %



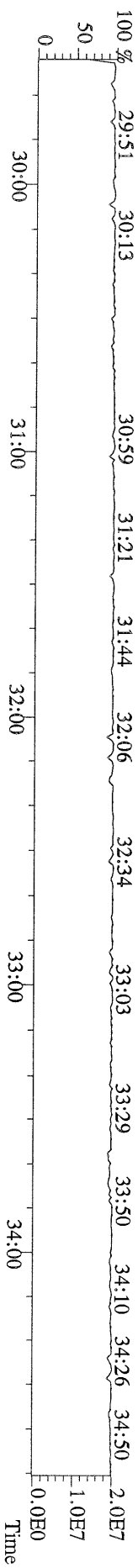
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
367,8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 %



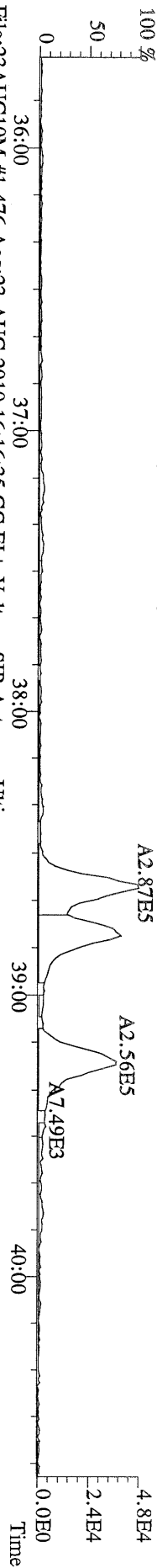
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369,8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



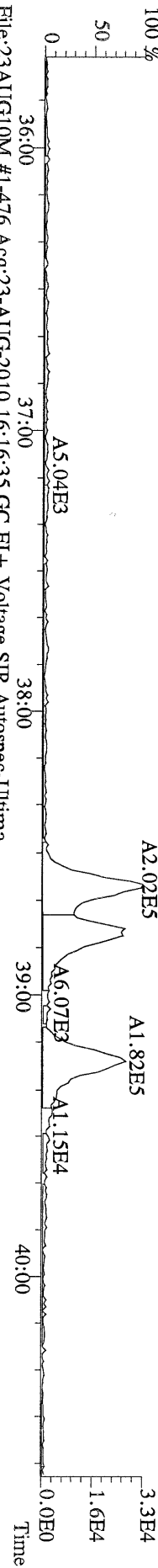
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366,9792 S:3 F:2 Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



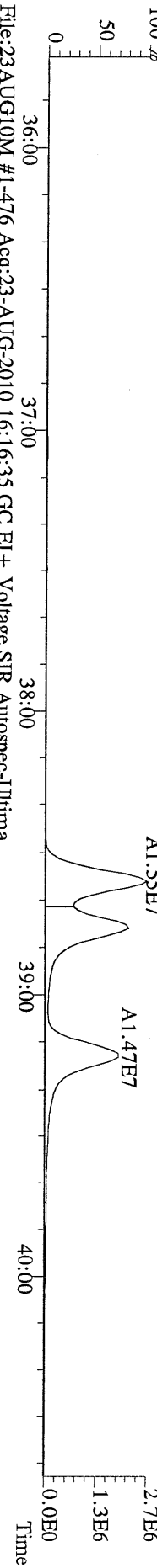
File:23AUG10M #1-476 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



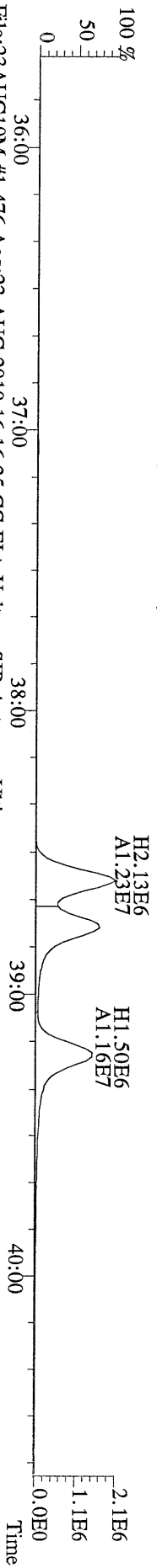
File:23AUG10M #1-476 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



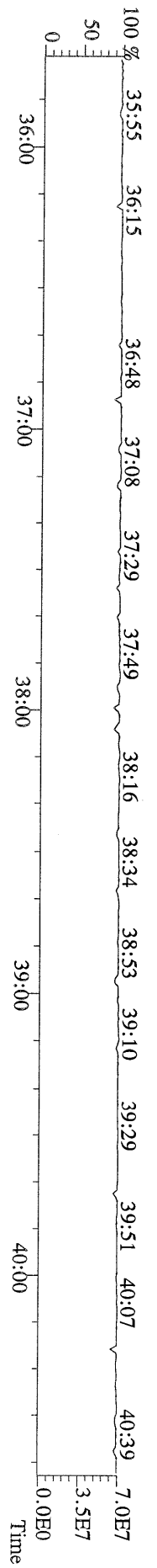
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401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



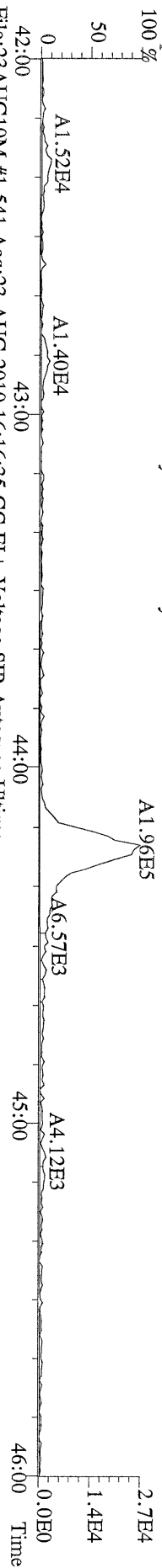
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403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



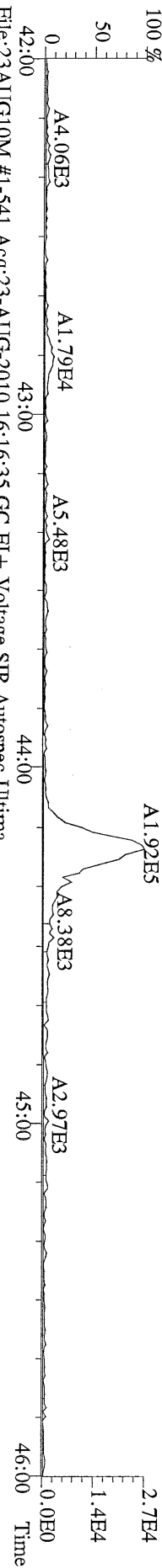
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380.9760 S:3 F:3 Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



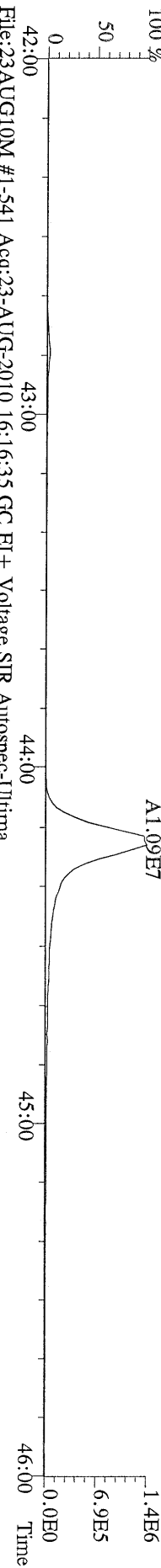
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



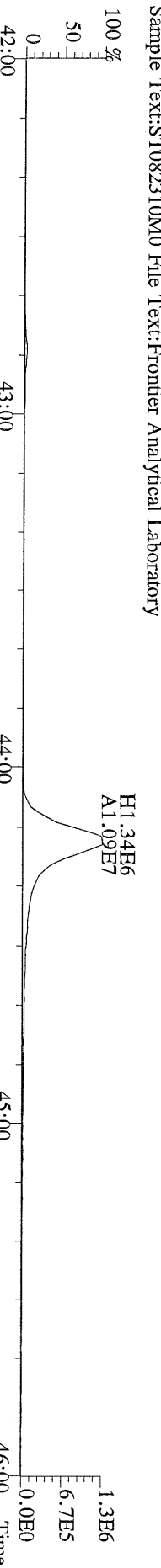
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



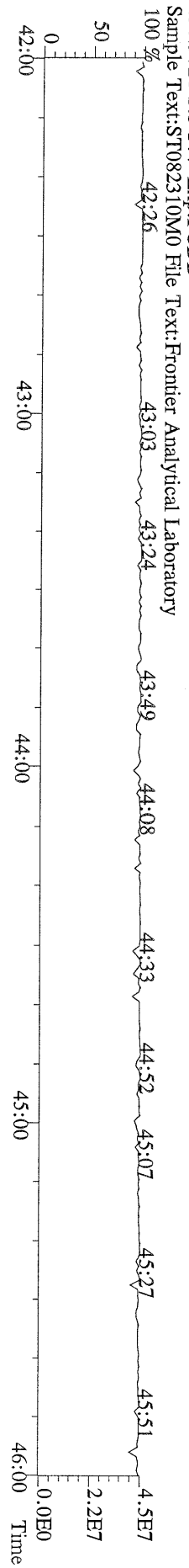
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435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



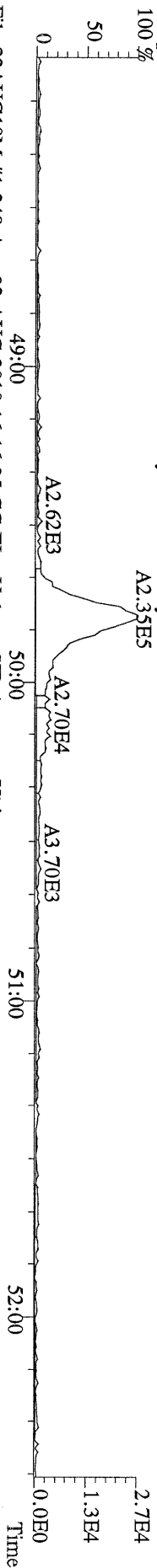
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437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
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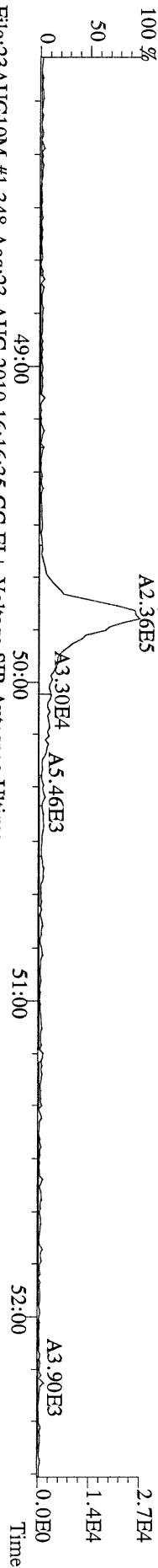
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430.9728 S:3 F:4 Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



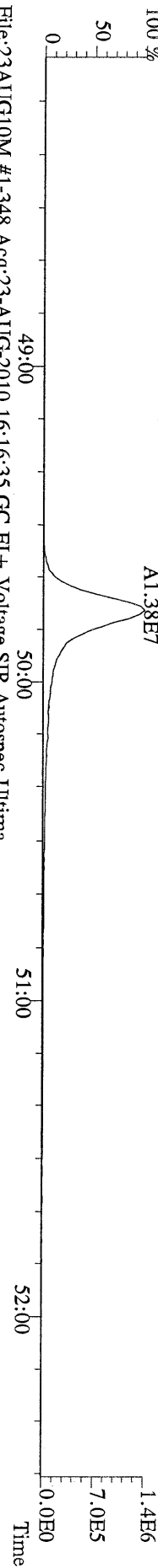
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



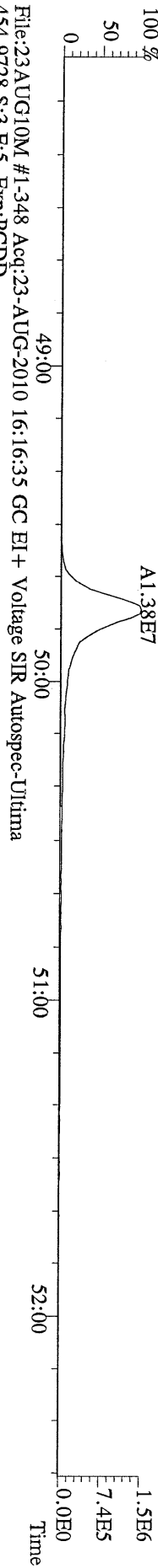
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



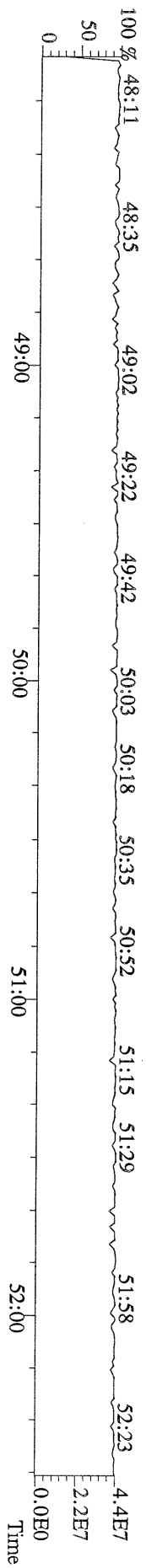
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469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



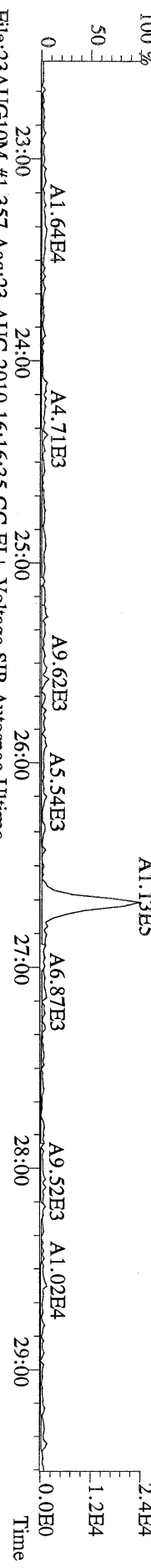
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471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



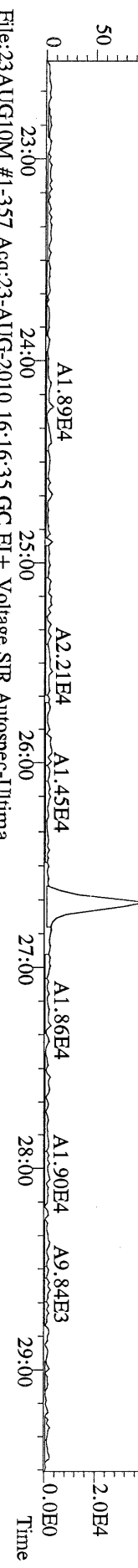
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454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



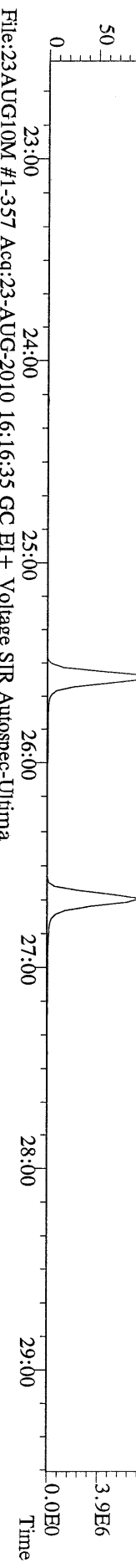
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



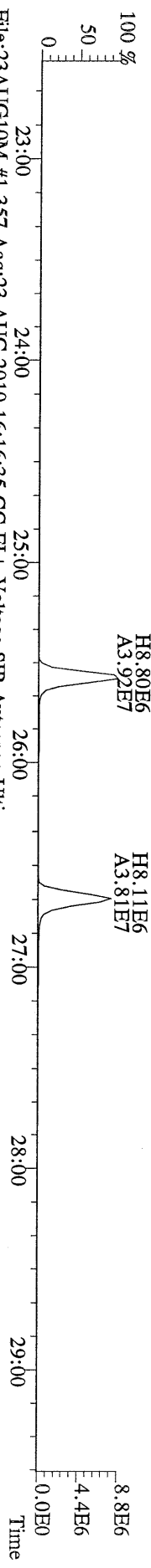
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



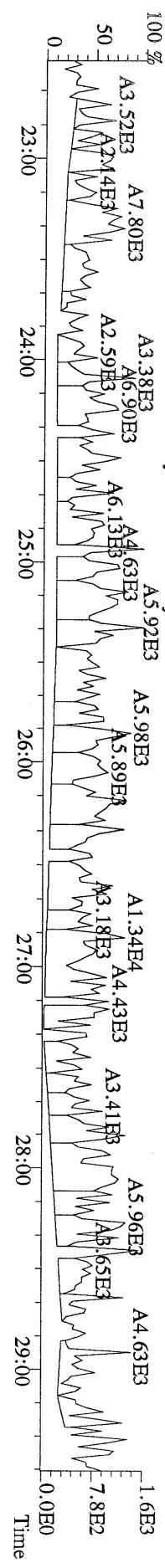
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 315.9419 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



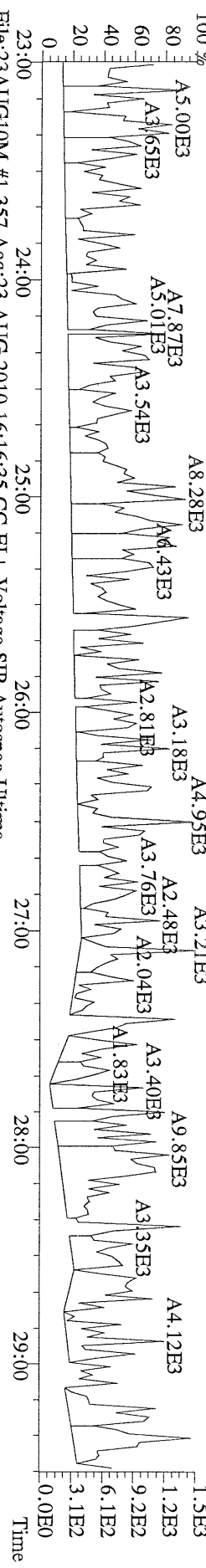
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 317.9389 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



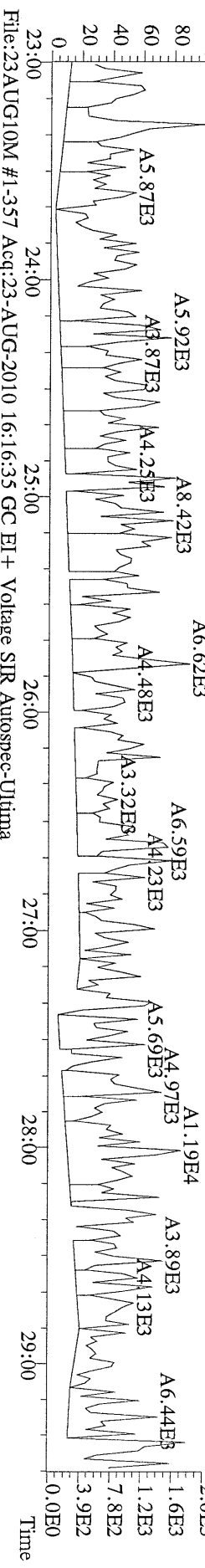
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



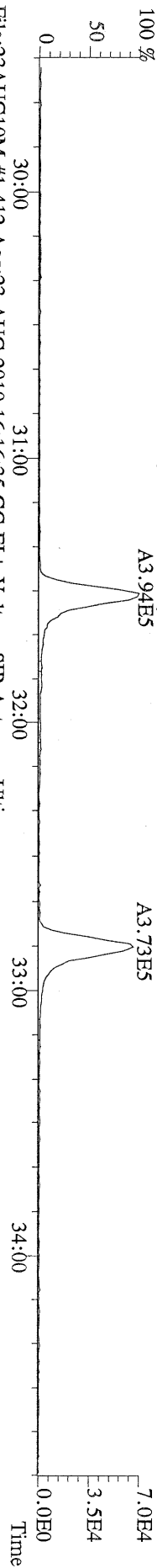
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



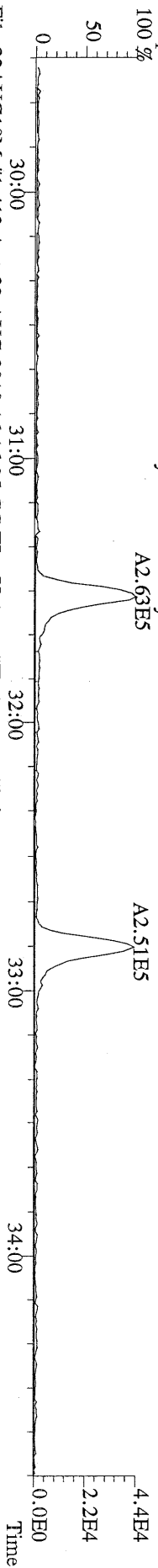
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:3 Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



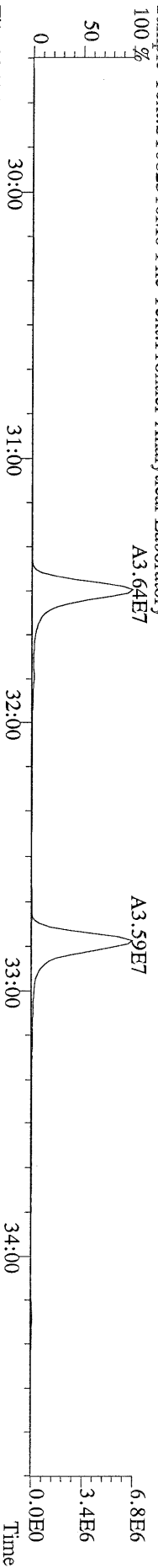
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
339,8597 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



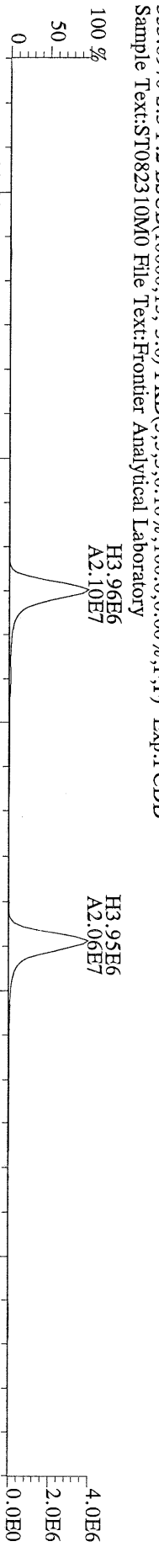
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
341,8568 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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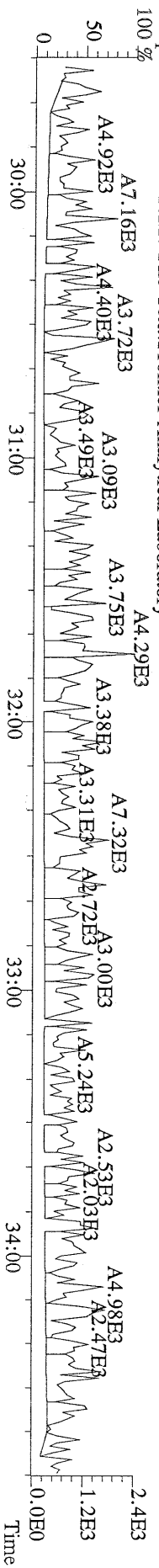
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351,9000 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



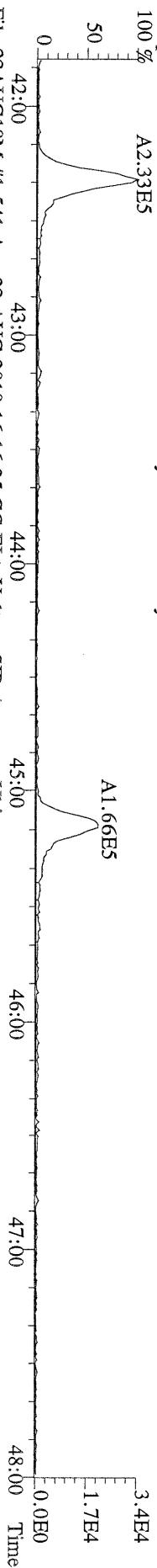
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353,8970 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



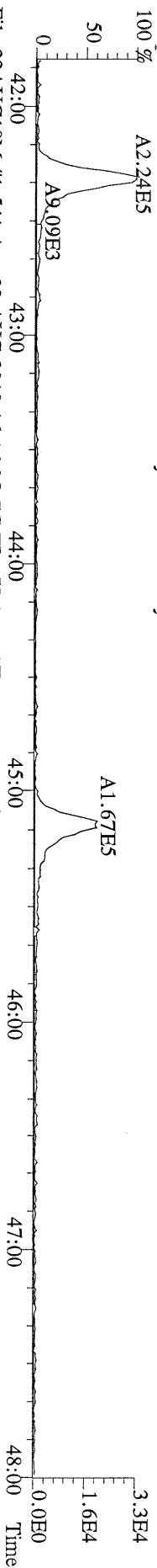
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409,7974 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



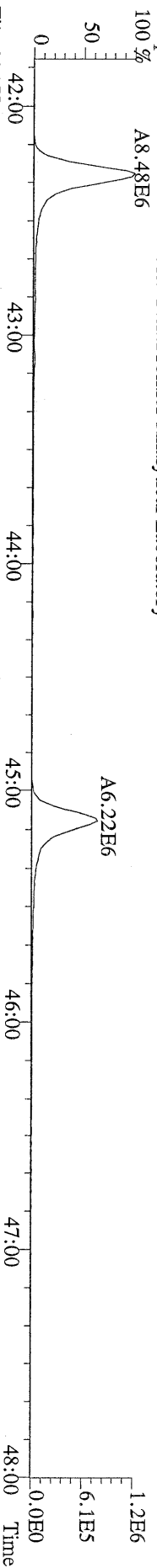
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Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 % A2.33E5



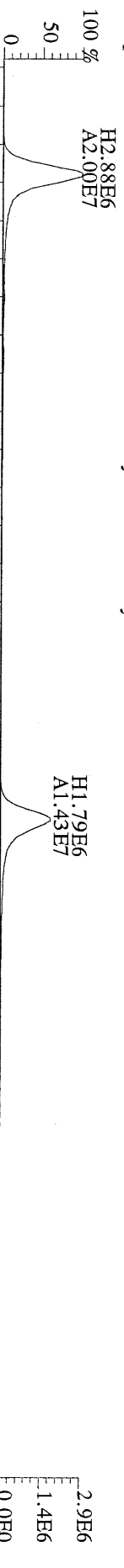
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409.7788 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 % A2.24E5



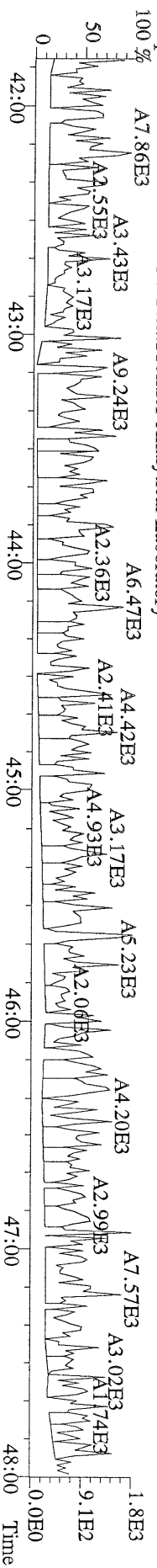
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417.8253 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 % A8.48E6



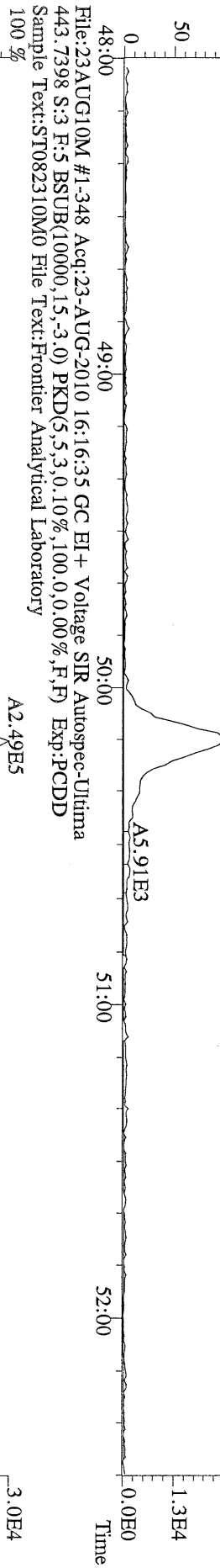
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419.8220 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



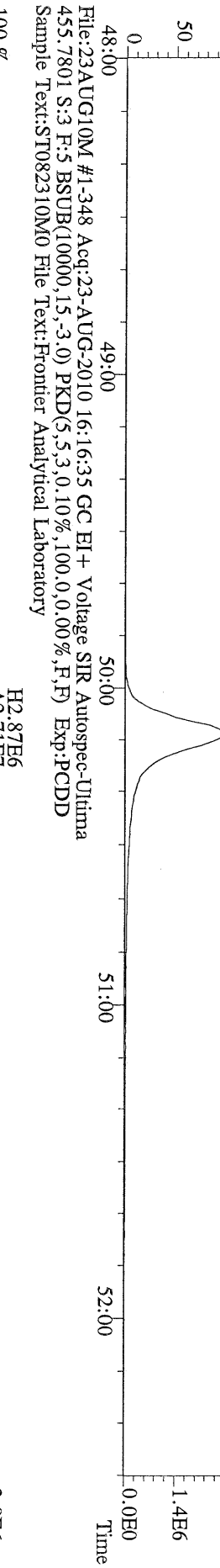
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479.7165 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



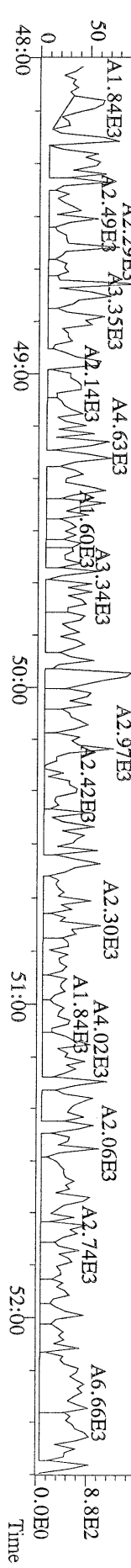
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441.7428 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



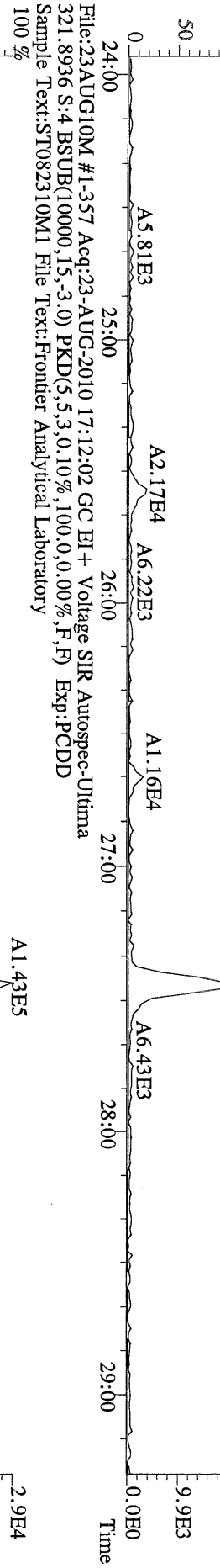
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453.7831 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



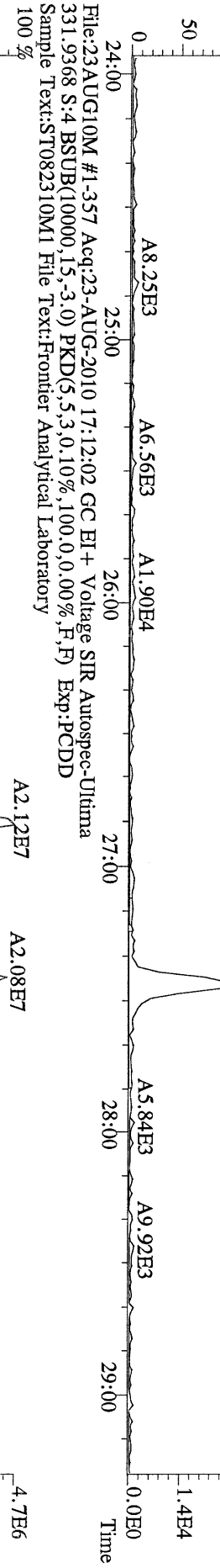
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513.6775 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



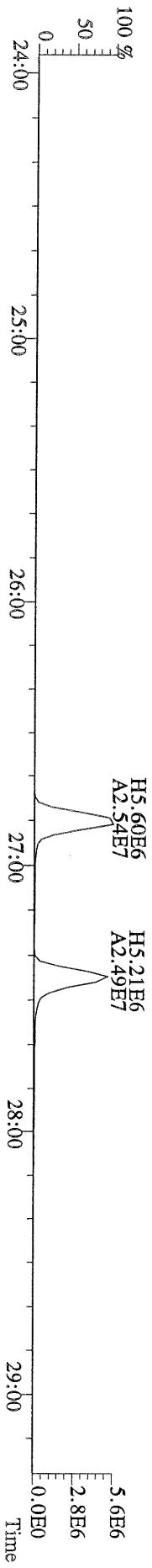
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC BI + Voltage SIR Autospec-Utlima
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



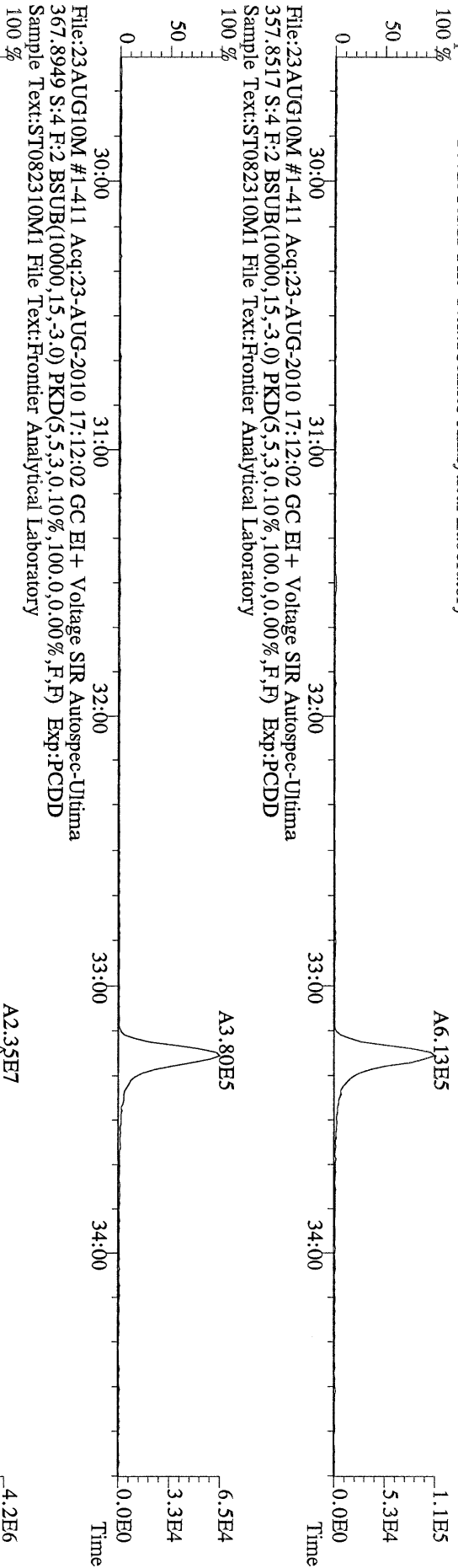
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC BI + Voltage SIR Autospec-Utlima
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



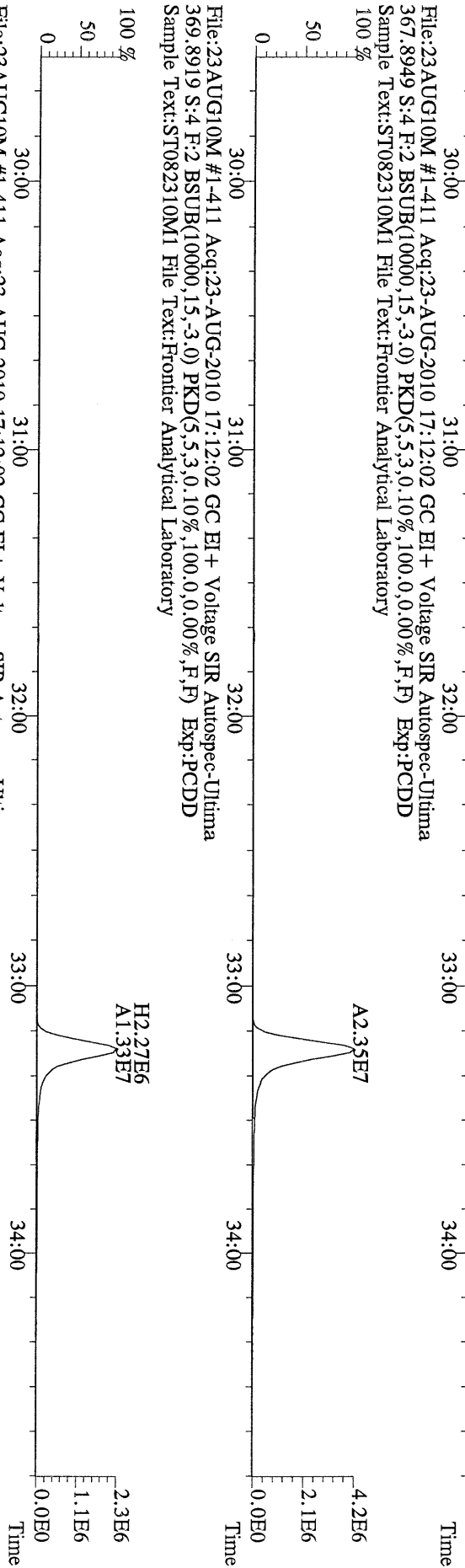
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



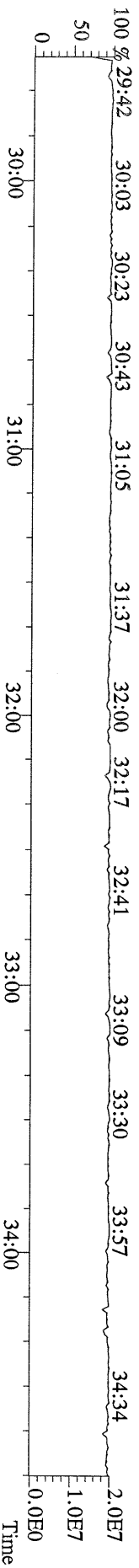
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355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory
100 %



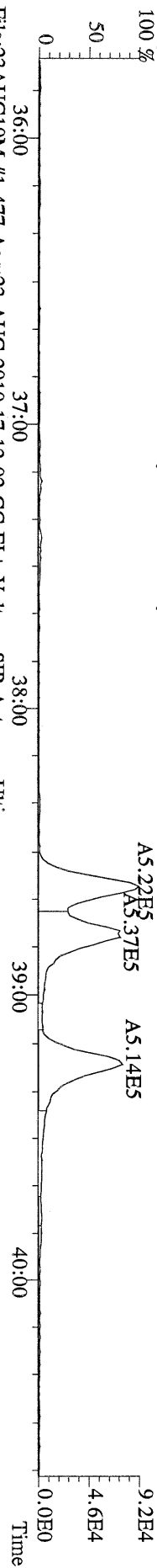
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367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory
100 %



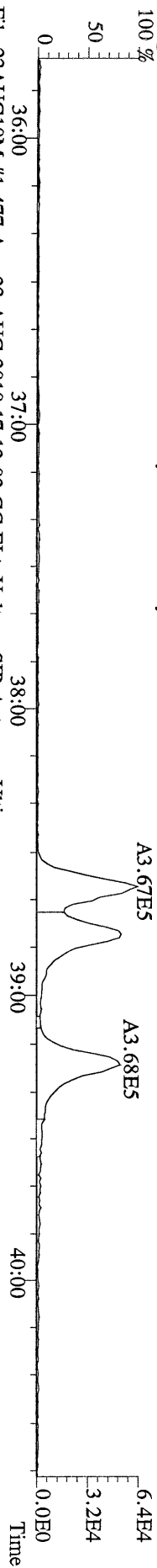
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory



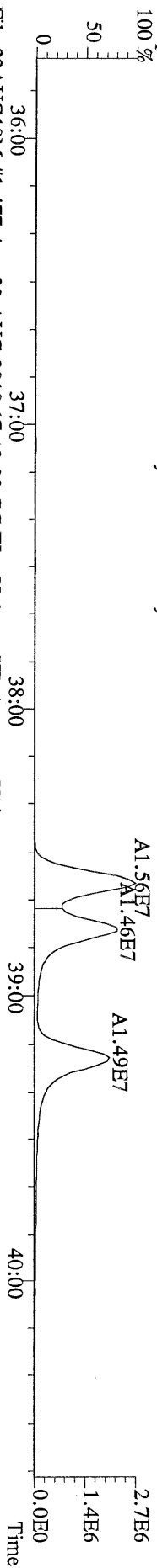
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389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



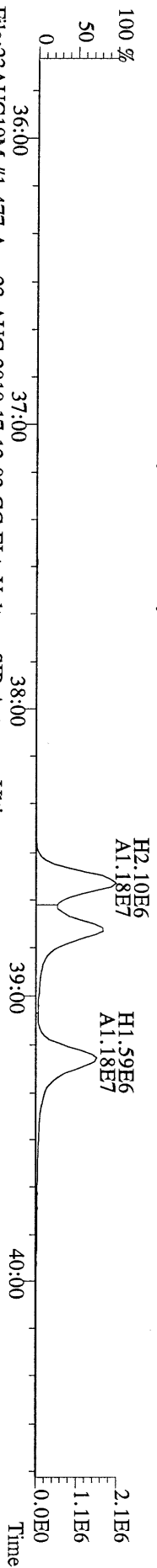
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391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



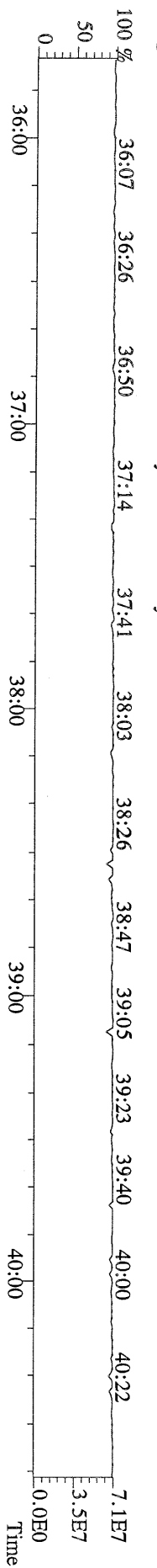
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401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



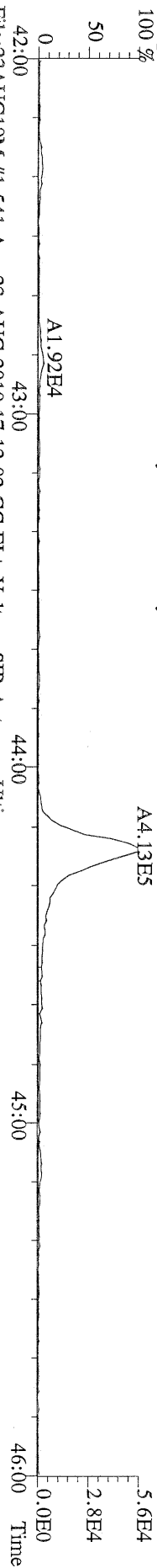
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403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



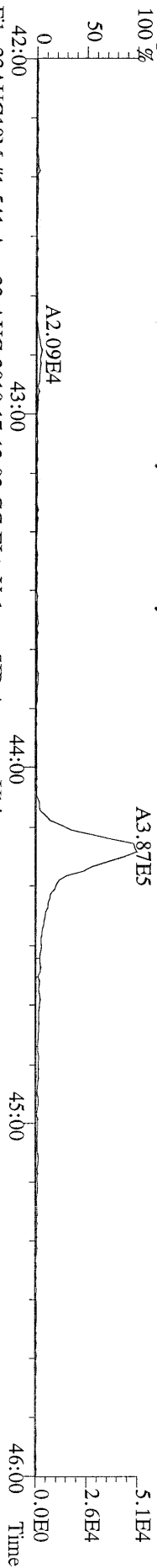
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380.9760 S:4 F:3 Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



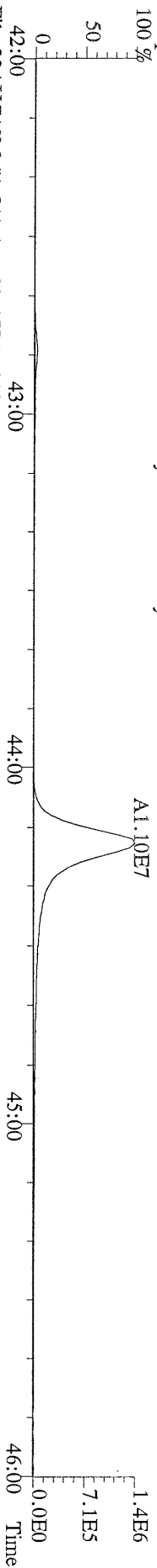
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423.7767 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



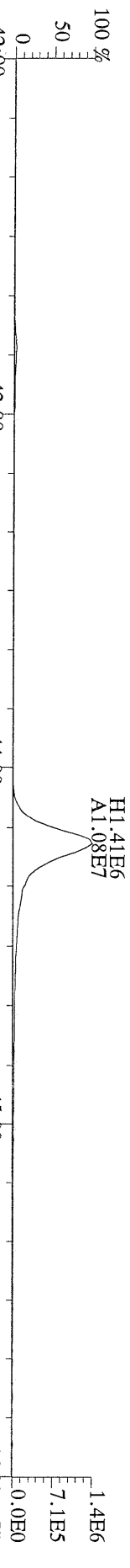
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425.7737 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



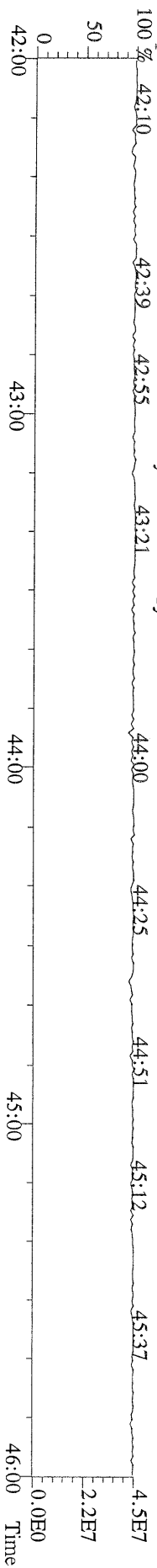
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435.8169 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



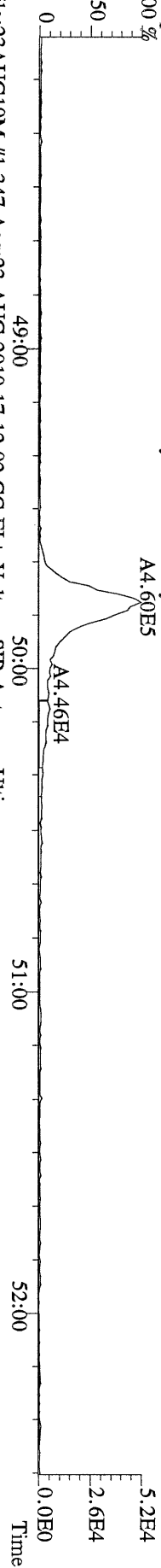
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437.8140 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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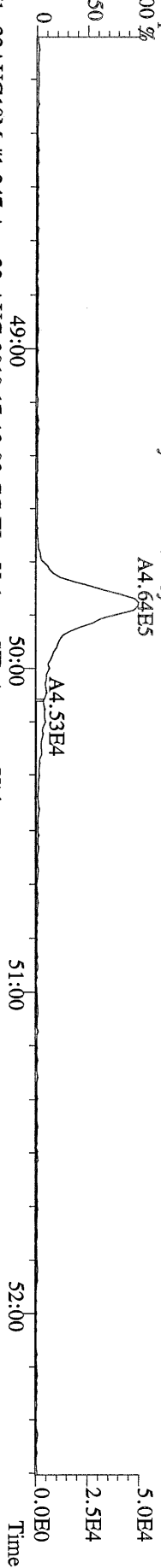
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430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



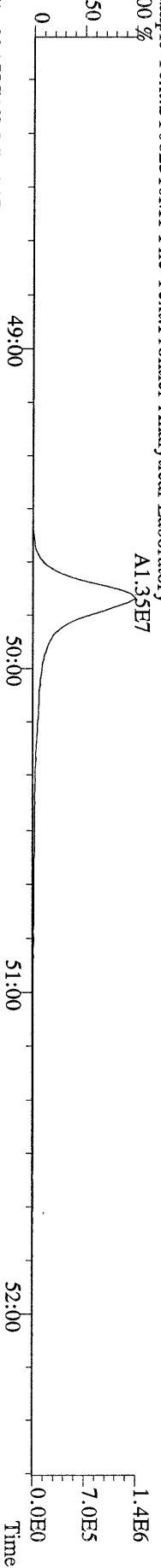
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457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



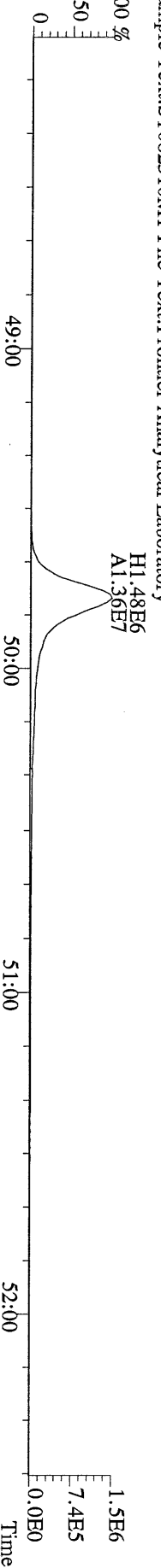
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459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



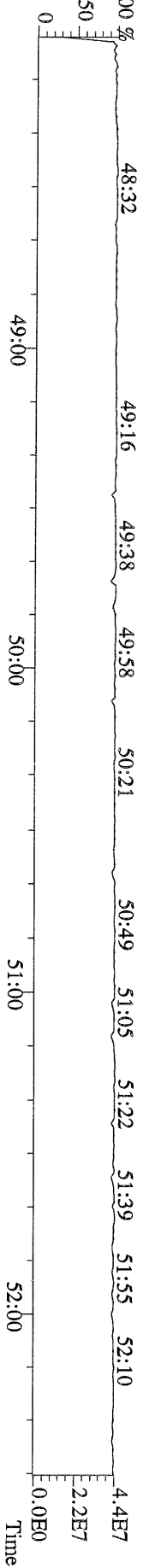
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469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



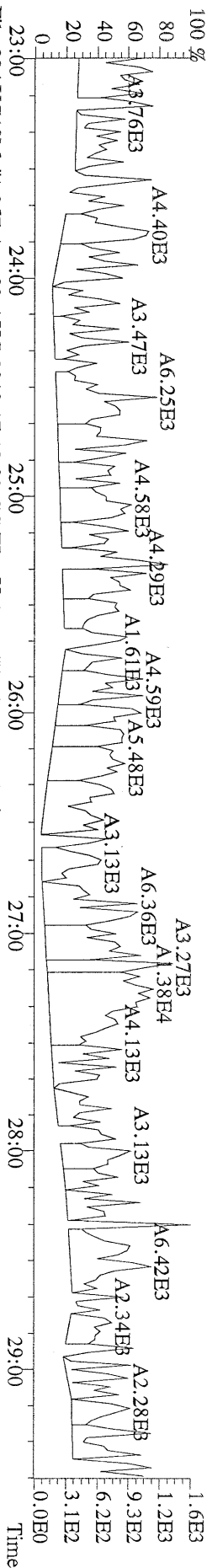
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471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



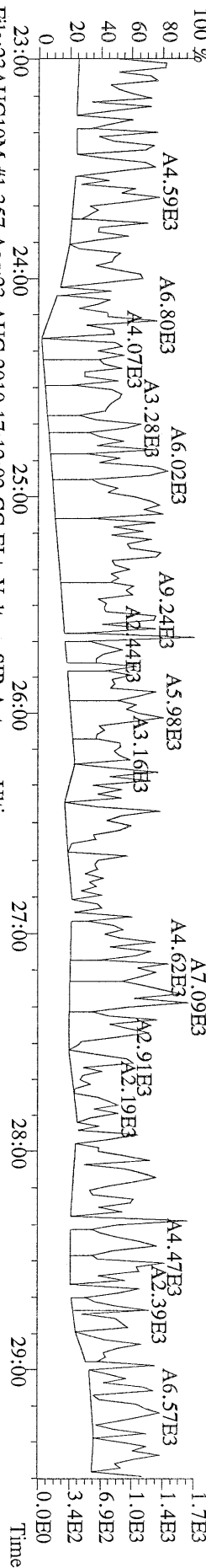
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Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



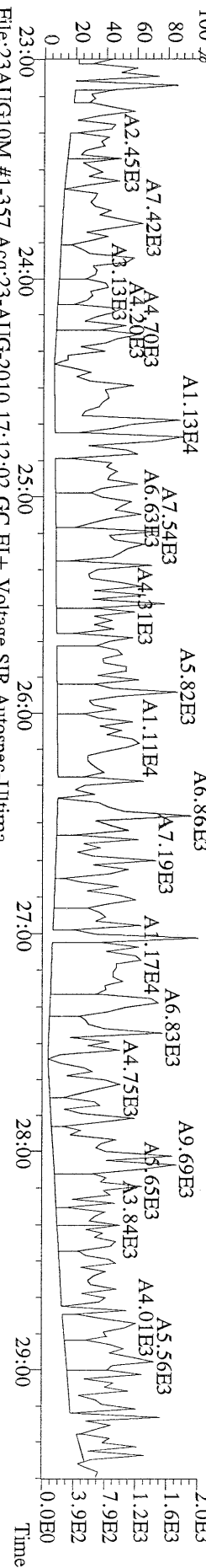
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 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



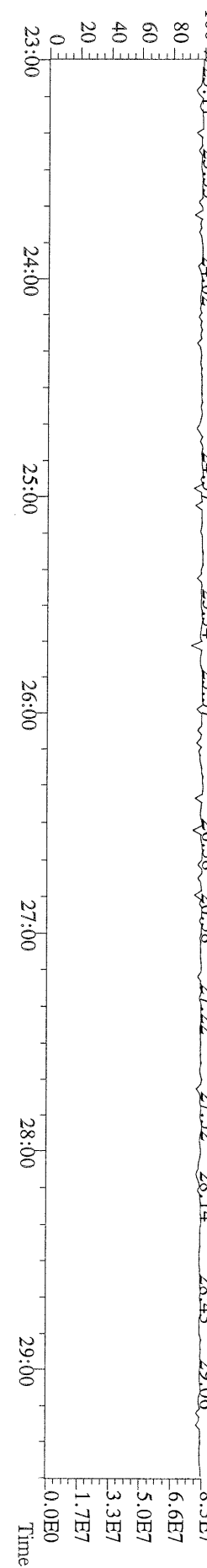
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 341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



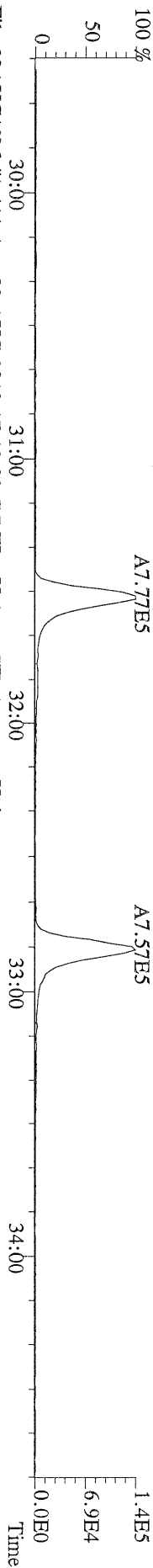
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 409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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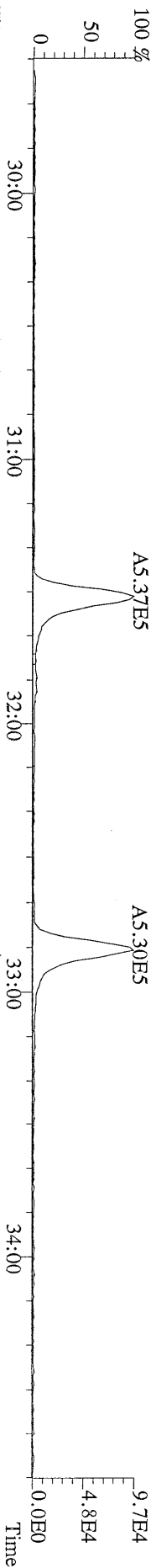
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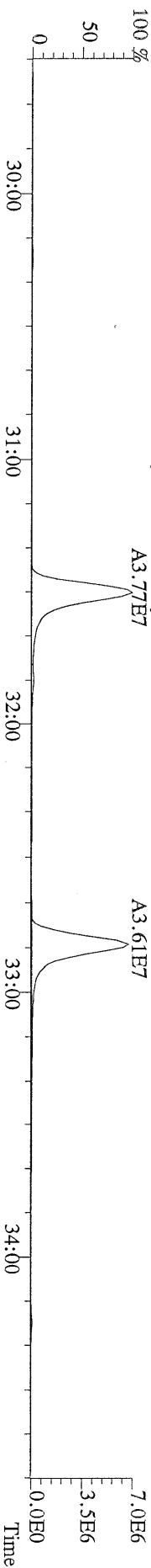
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339,8597 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



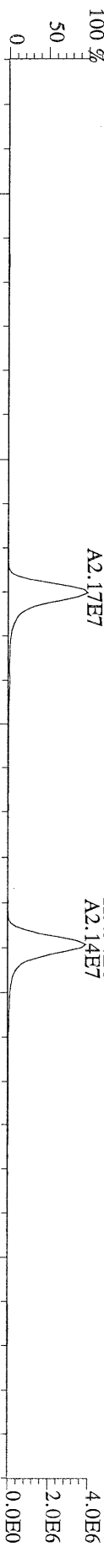
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341,8568 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



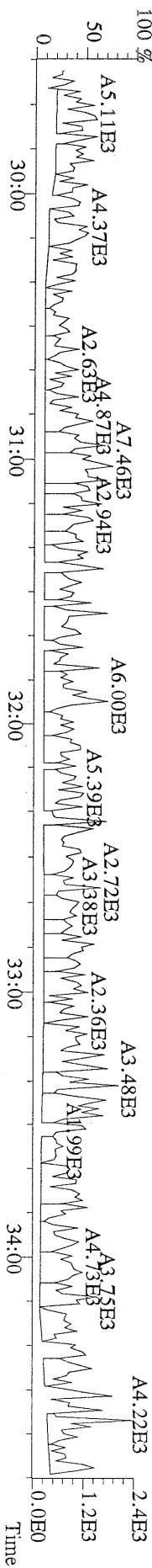
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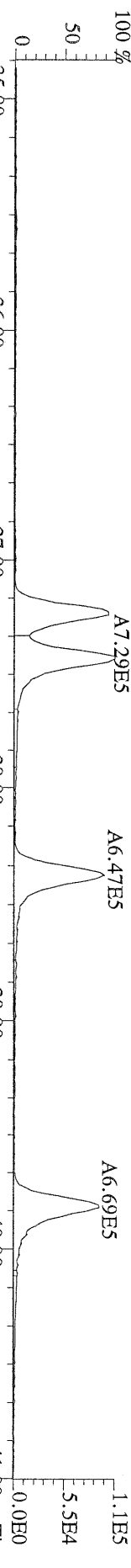
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353,8970 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
409,7974 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



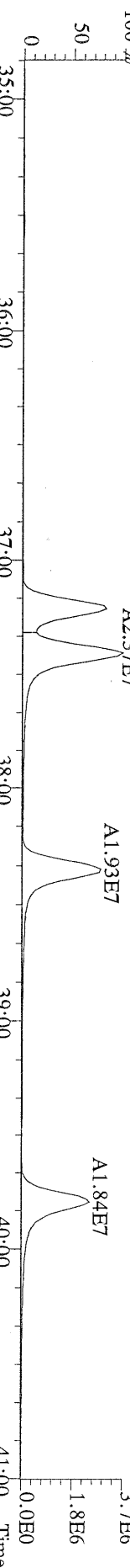
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory



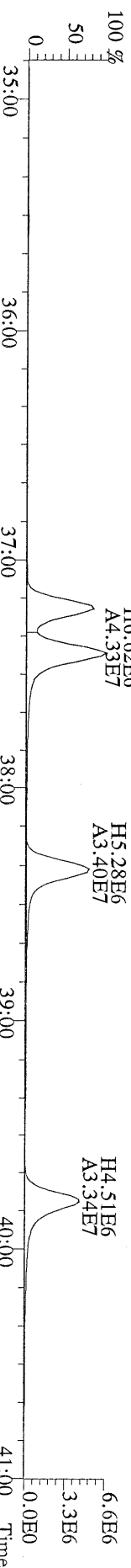
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 375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory



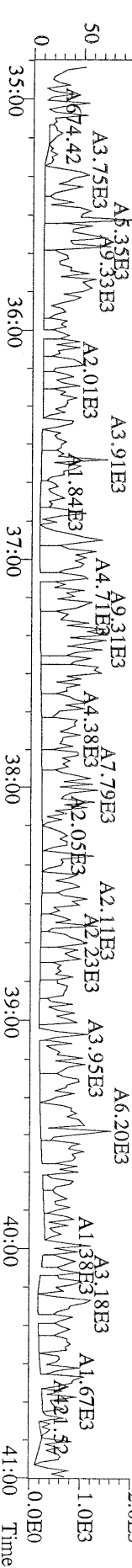
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 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory



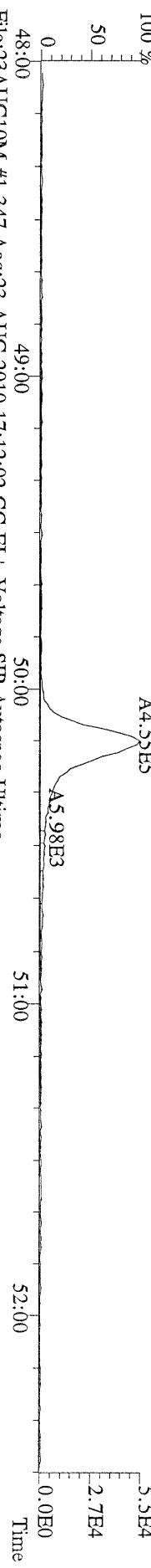
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 385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory



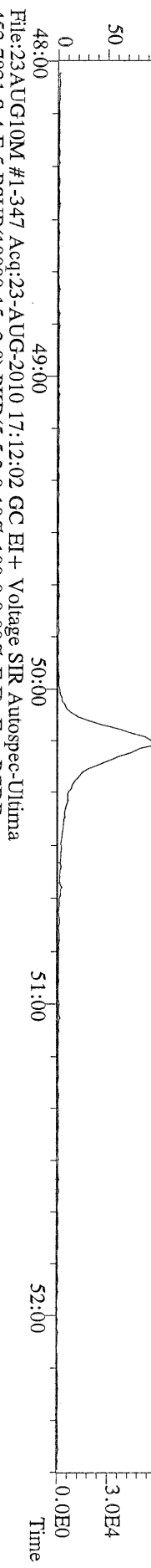
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 445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Fronier Analytical Laboratory



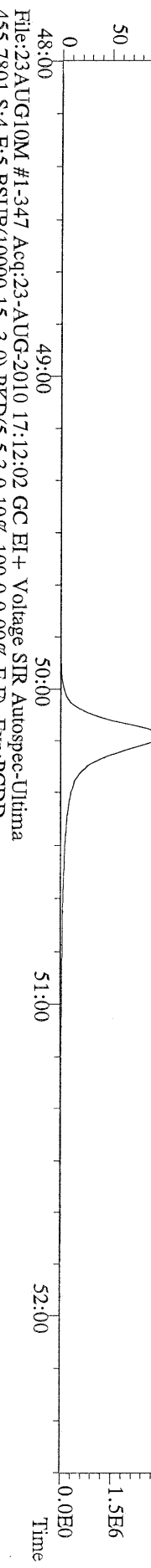
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



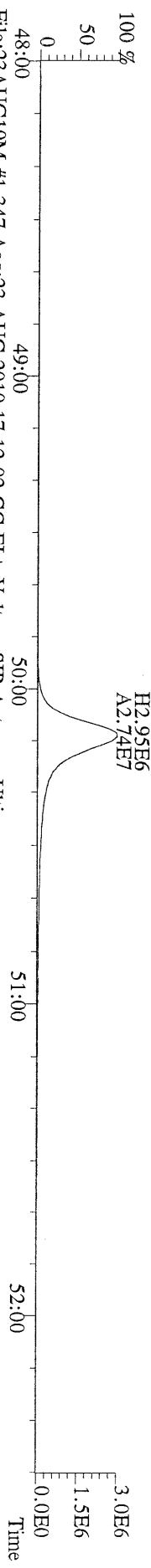
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



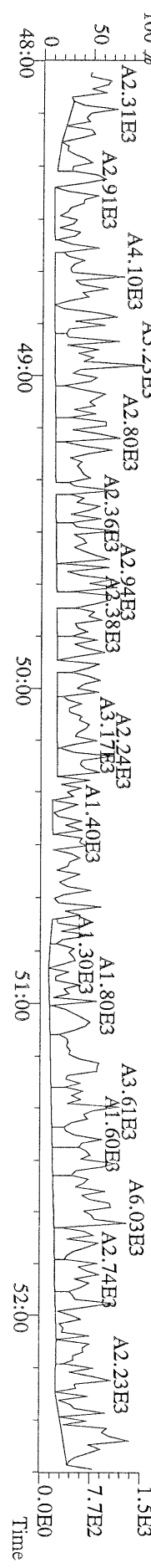
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453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



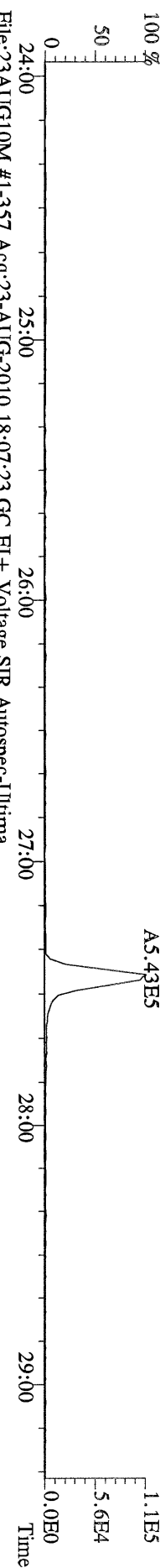
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513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



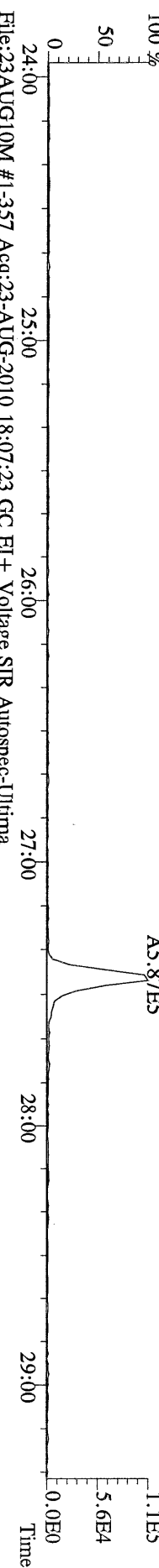
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



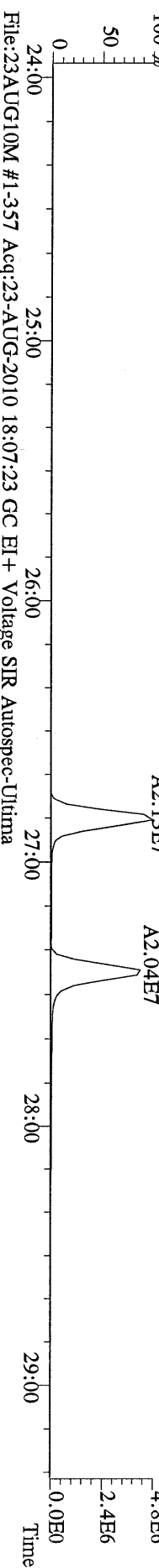
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321.8936 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



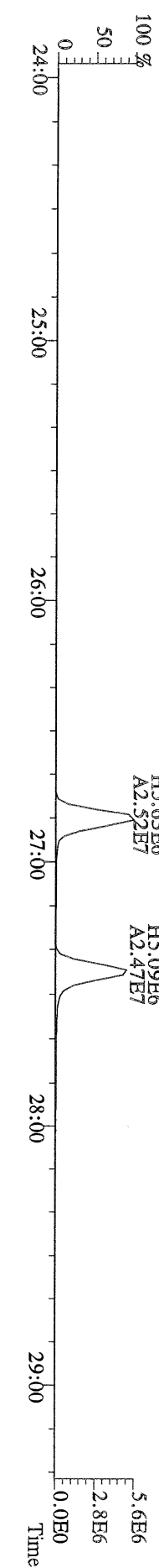
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



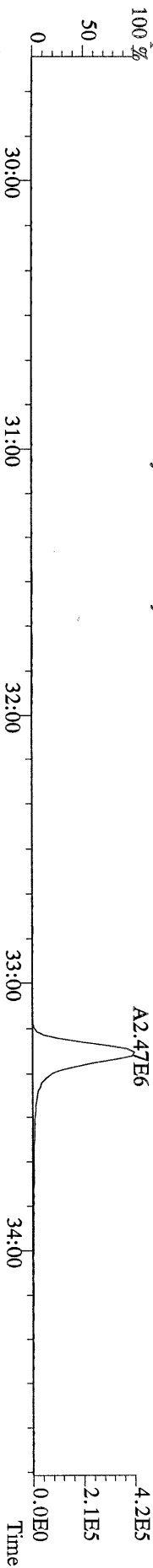
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



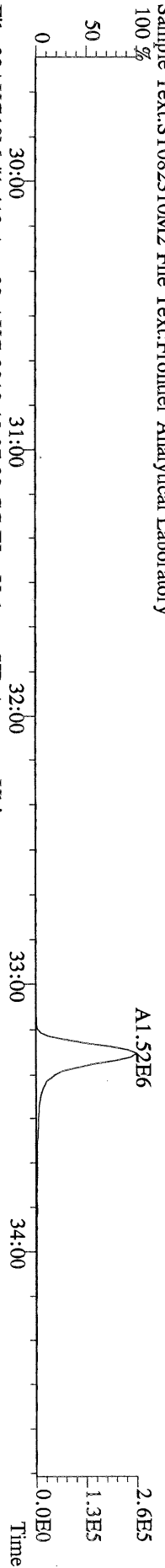
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



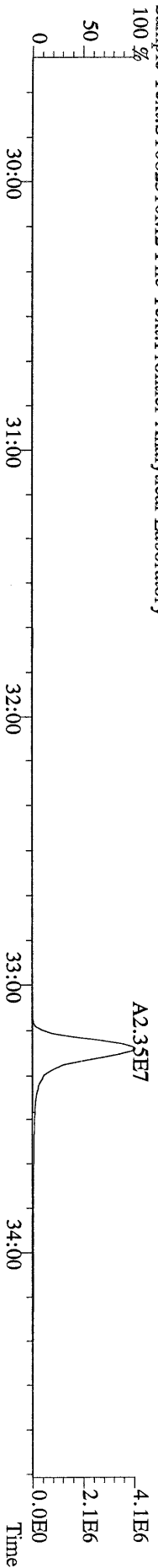
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
355,8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
357,8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



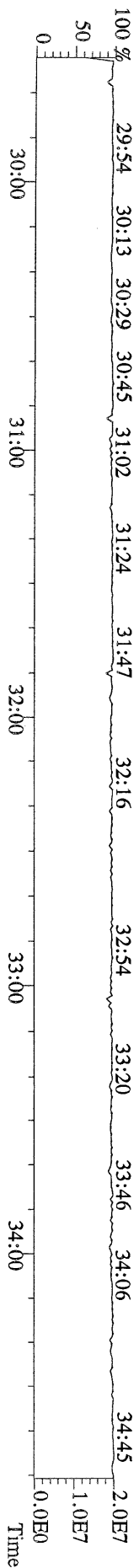
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367,8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



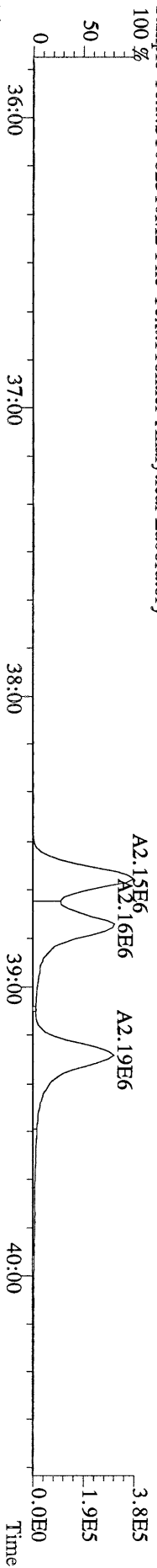
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369,8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



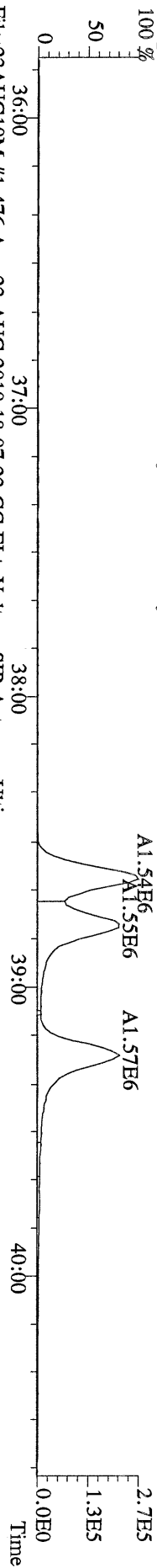
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
366,9792 S:5 F:2 Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



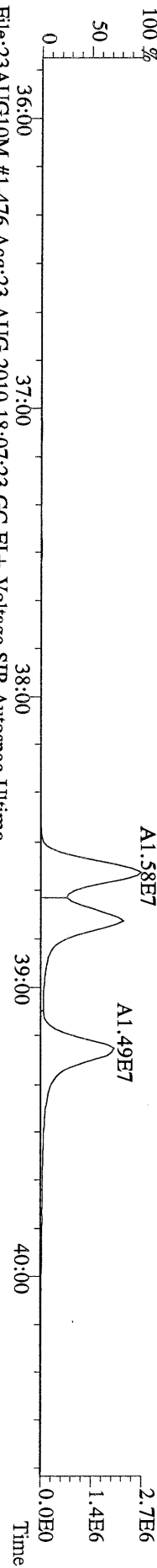
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ulima
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



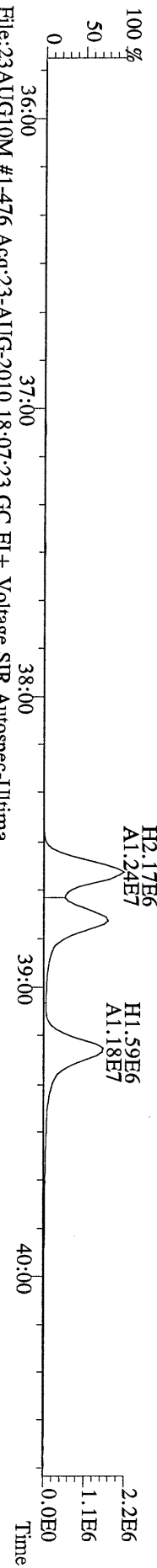
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ulima
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



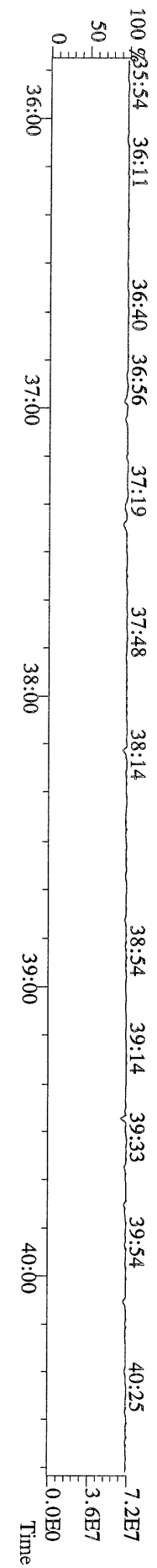
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ulima
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



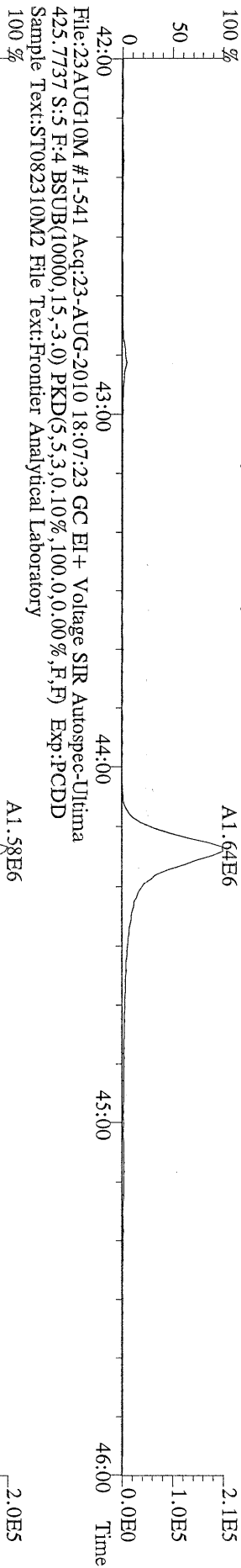
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ulima
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



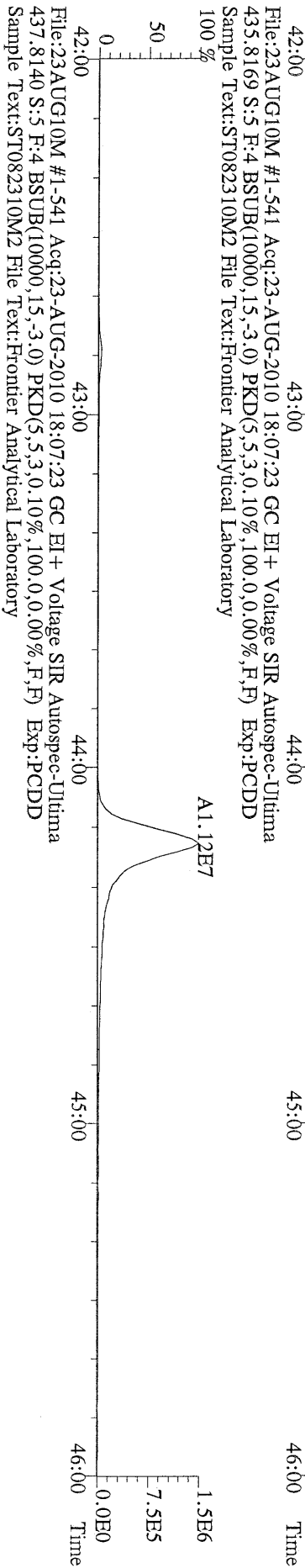
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ulima
380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



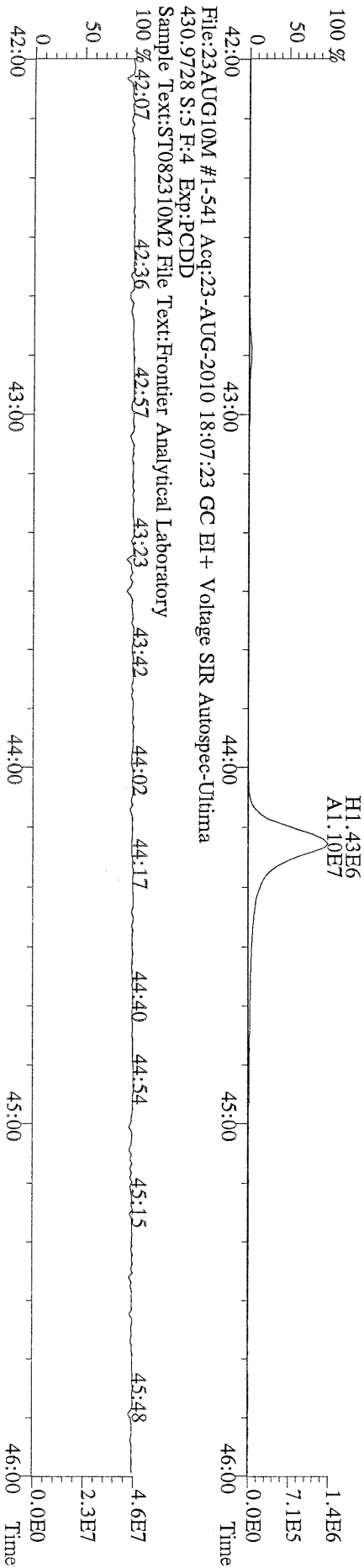
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utlima
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



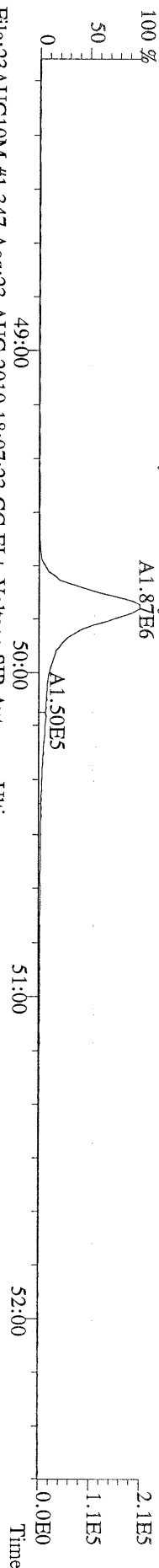
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435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



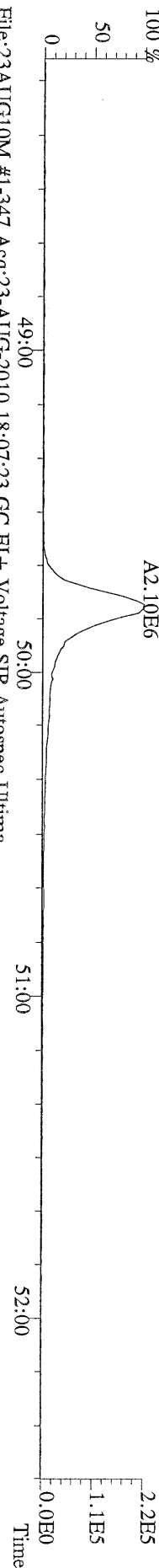
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437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



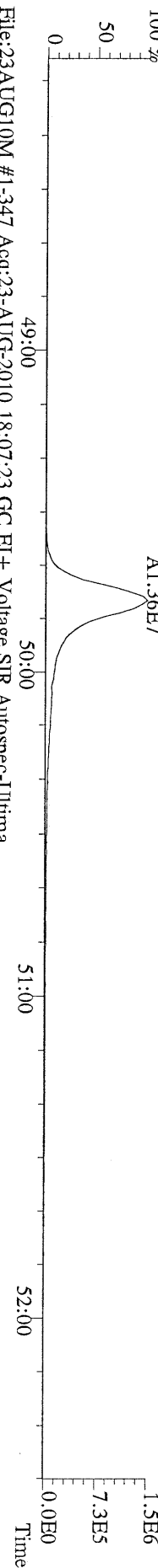
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



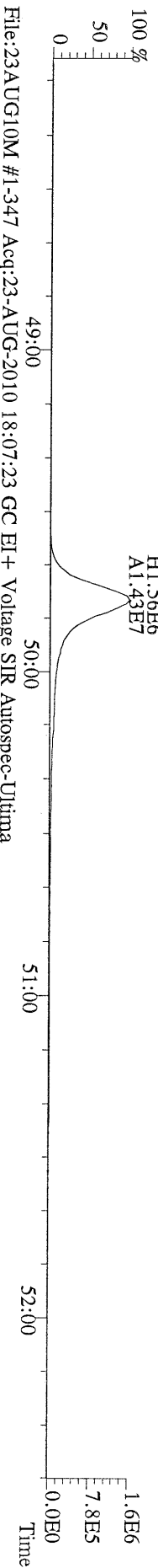
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459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



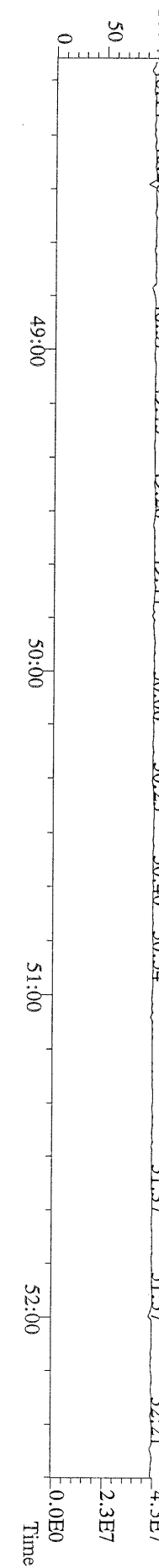
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



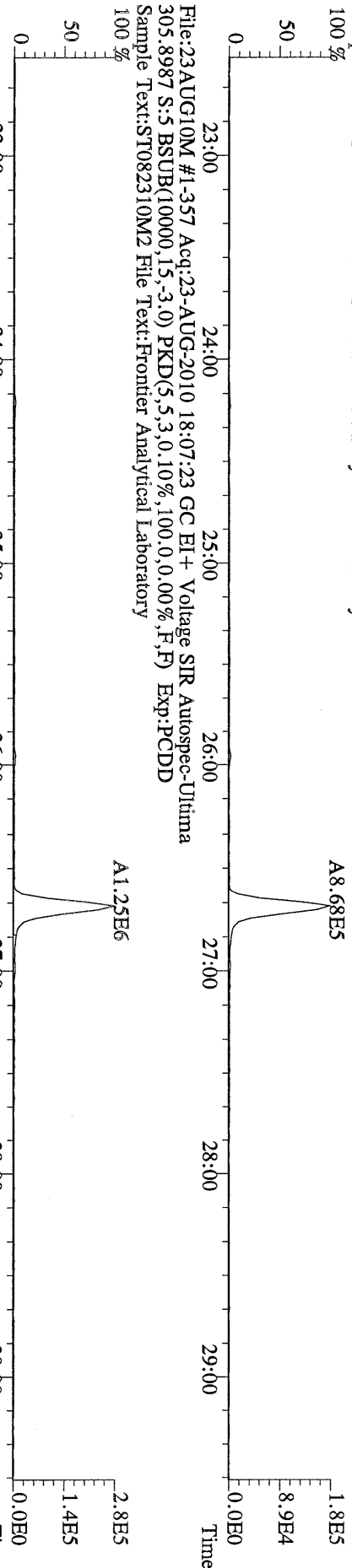
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471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



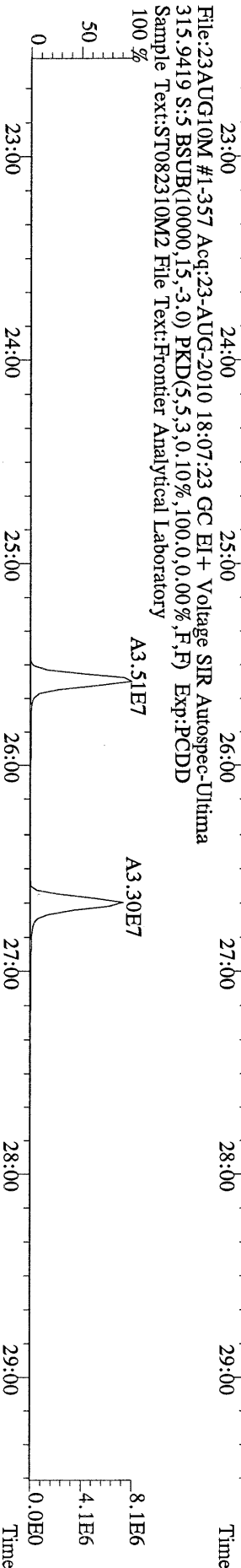
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



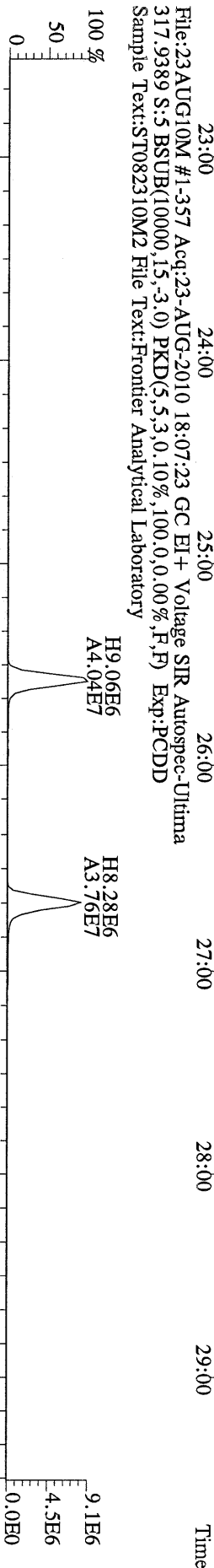
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



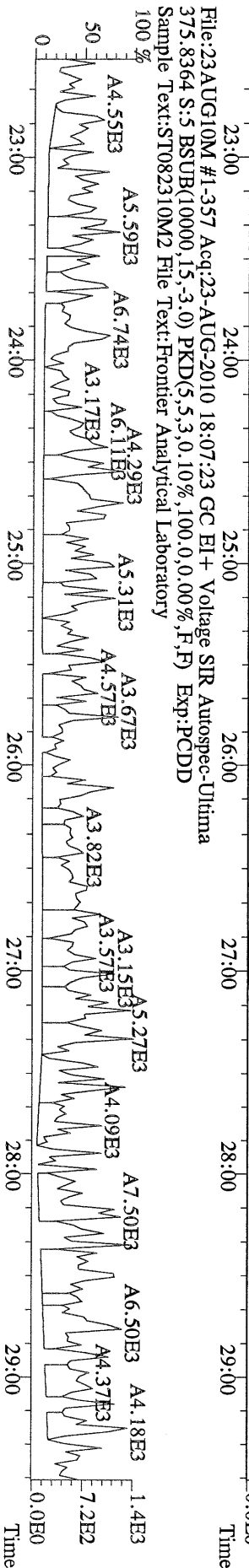
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
315.9419 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %

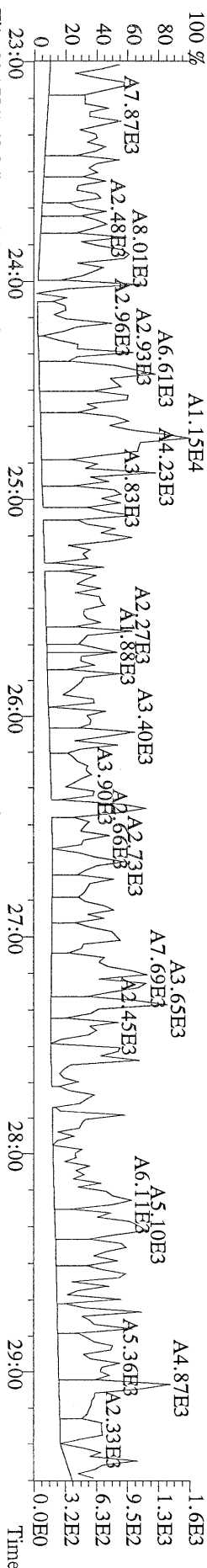


File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
317.9389 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory

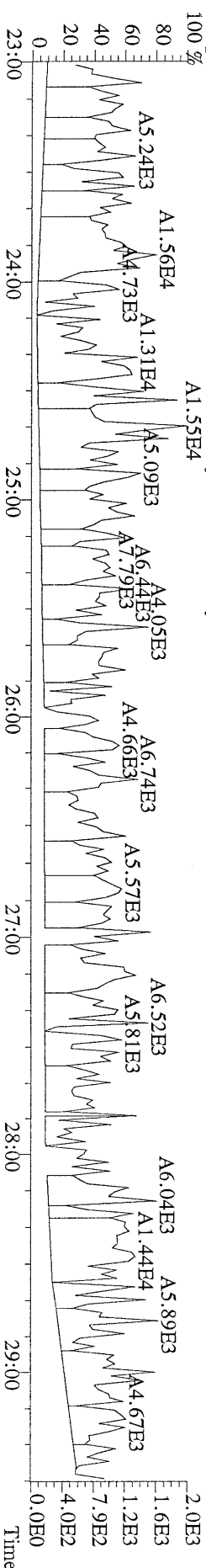


File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory

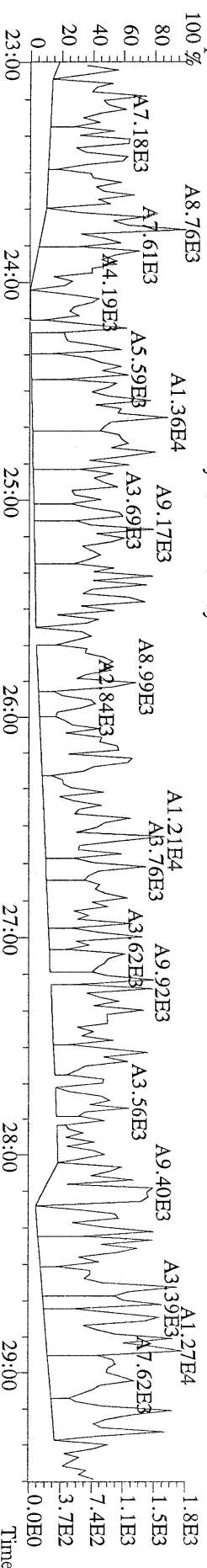
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



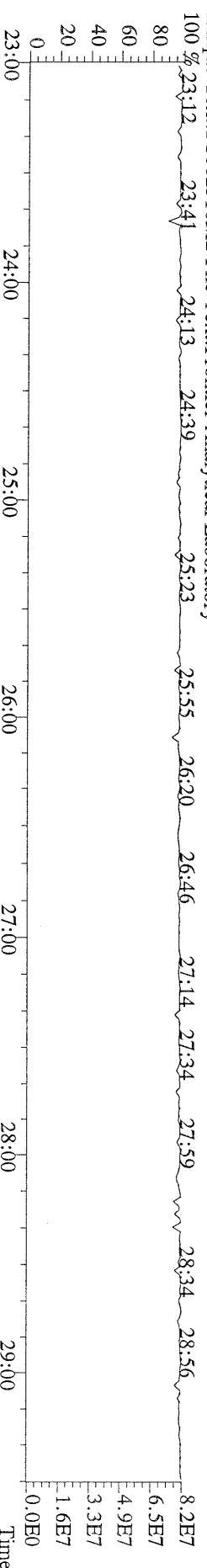
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



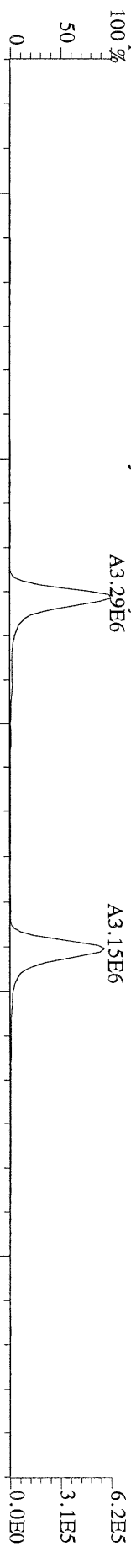
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



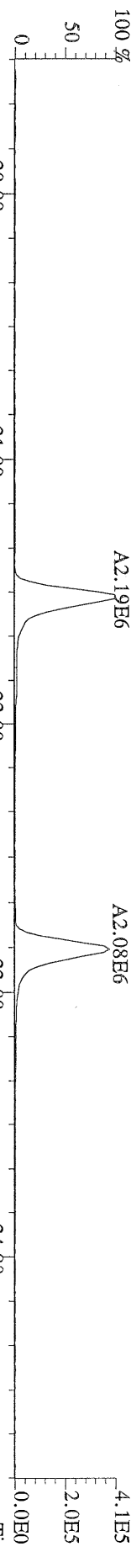
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 330.9792 S:5 Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



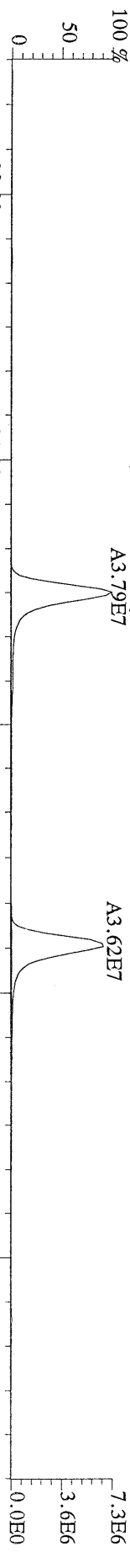
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
339.8597 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
341.8568 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



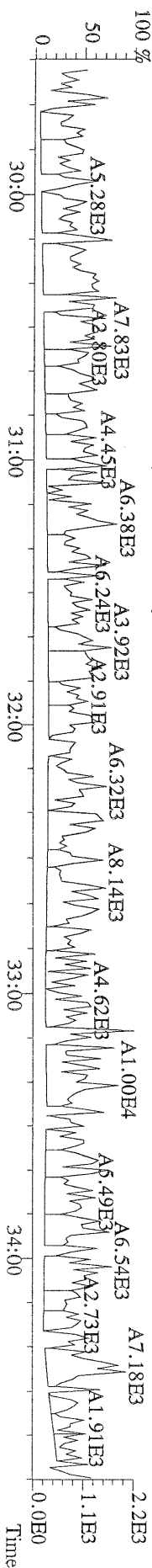
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351.9000 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



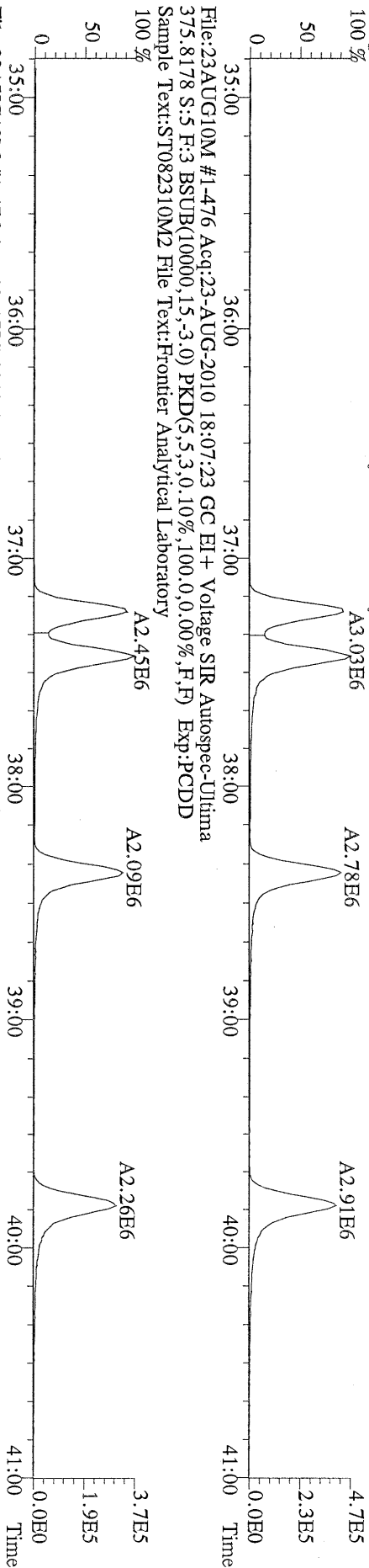
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353.8970 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



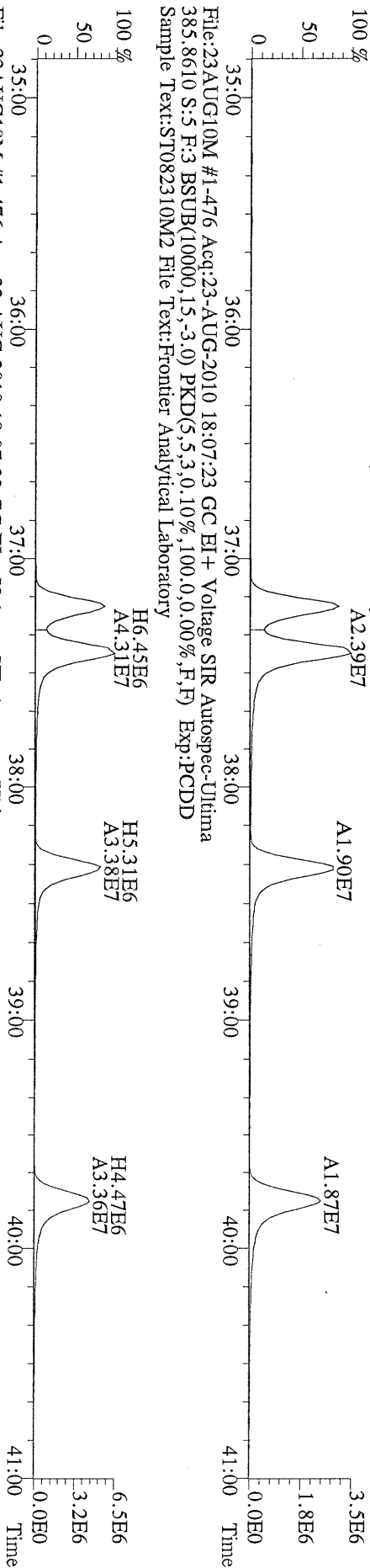
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409.7974 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



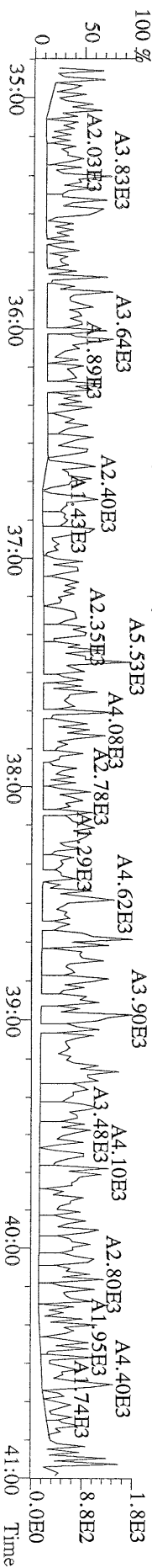
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373.8207 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



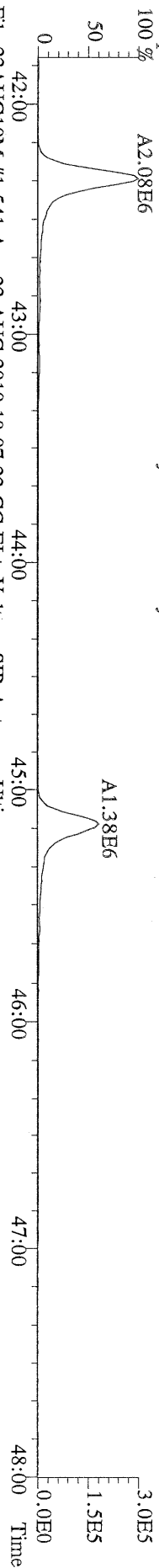
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



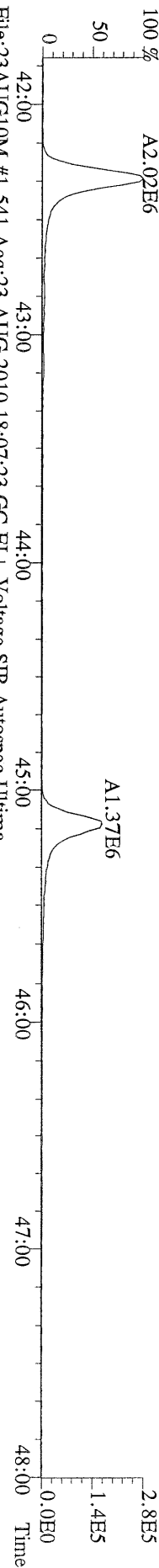
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445.7555 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



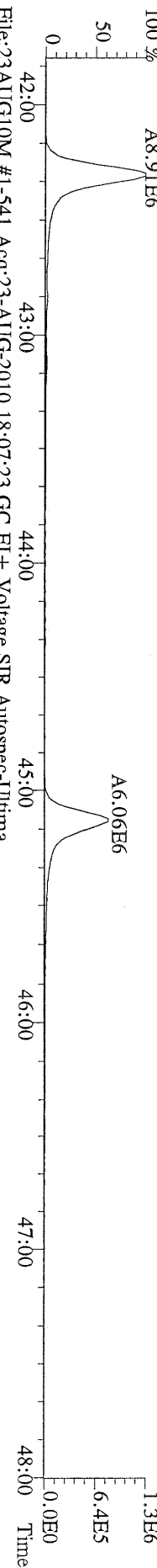
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



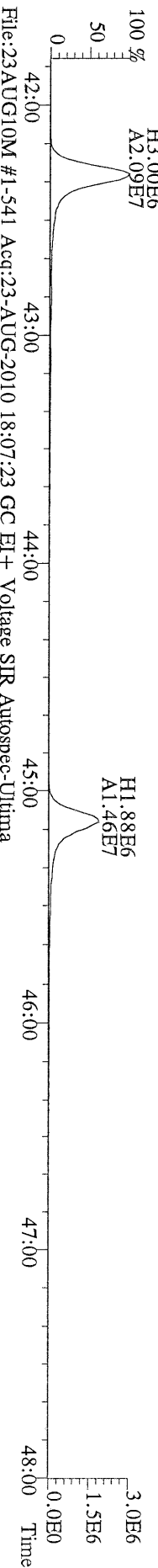
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409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



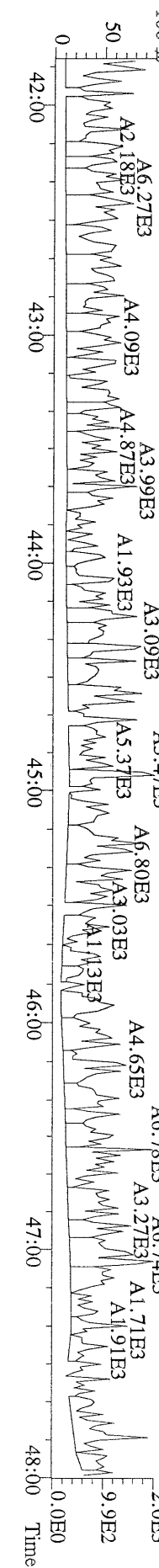
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



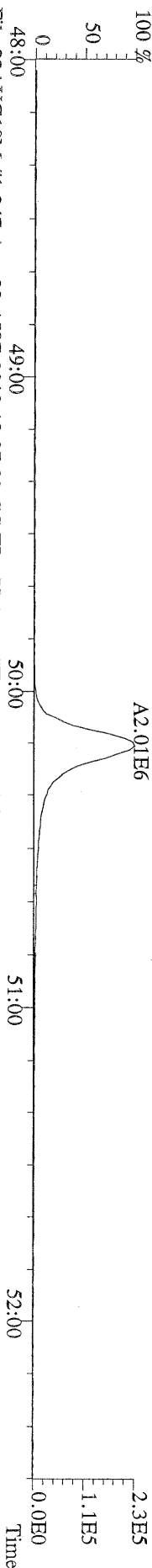
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419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



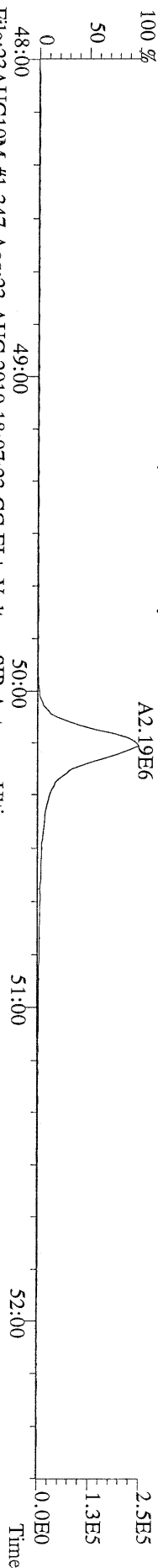
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



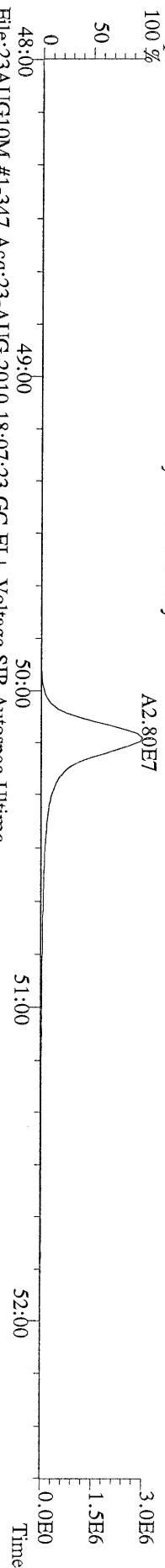
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC BI+ Voltage SIR Autospec-Ultima
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



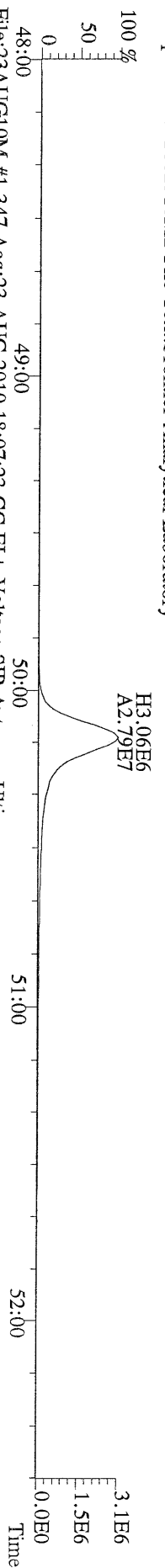
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443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



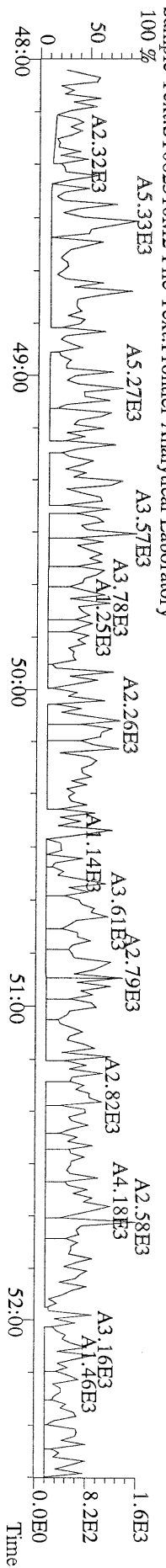
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



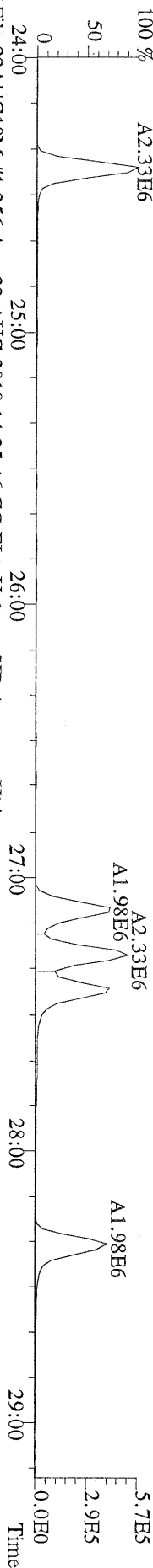
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455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



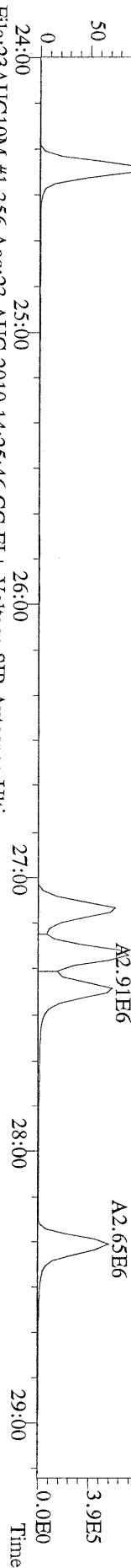
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC BI+ Voltage SIR Autospec-Ultima
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



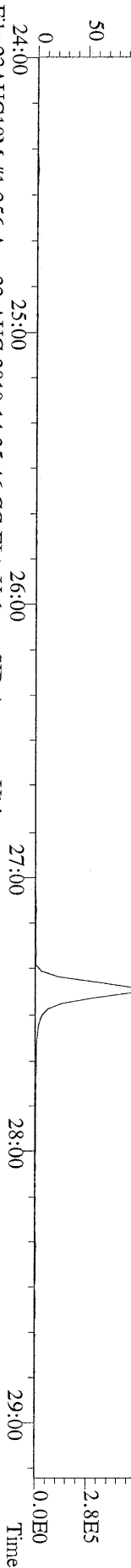
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



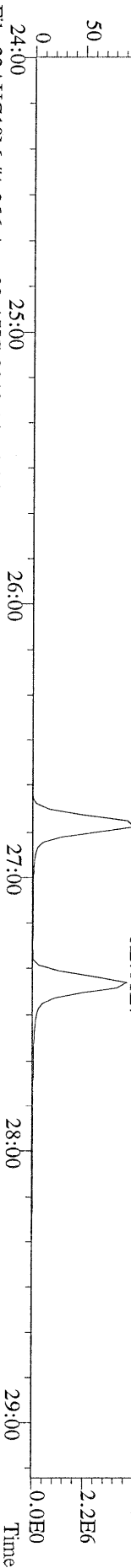
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



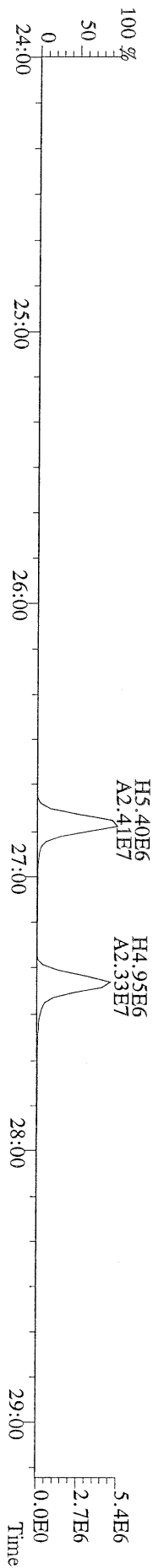
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327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



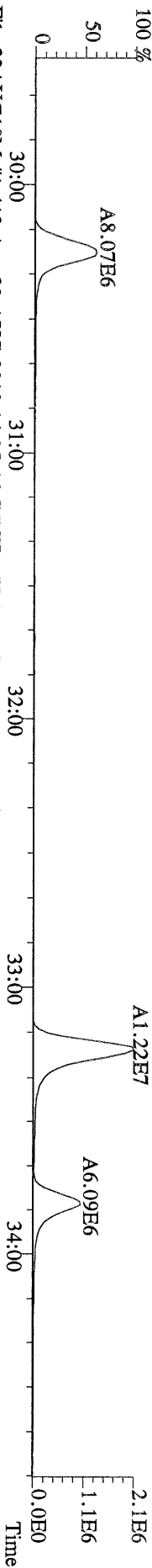
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331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



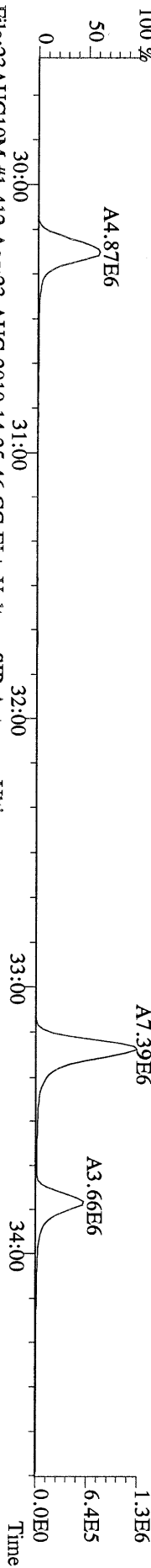
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333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



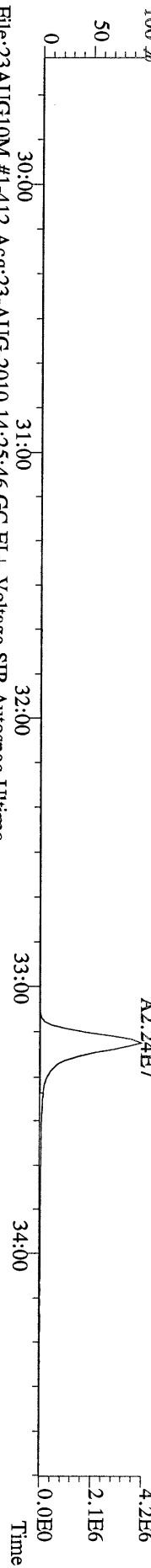
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



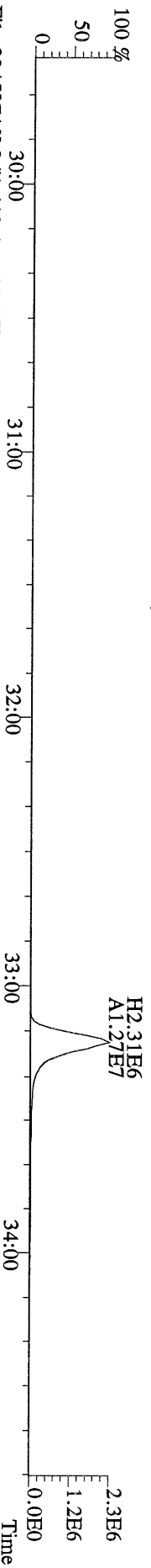
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357.8517 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



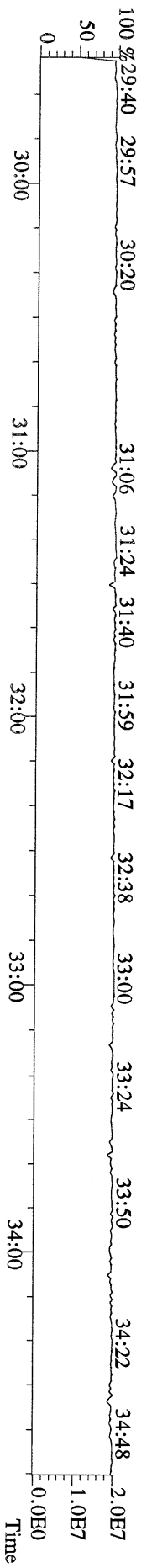
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367.8949 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



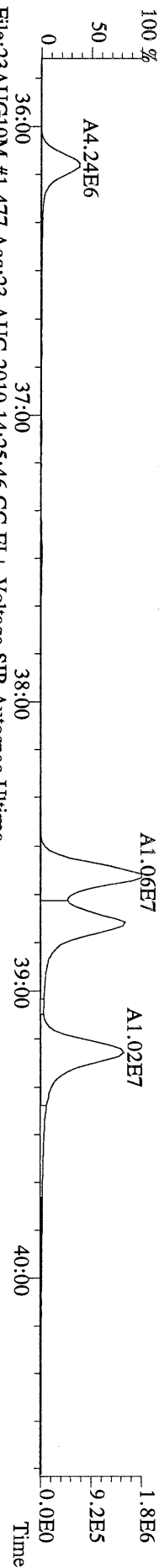
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369.8919 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



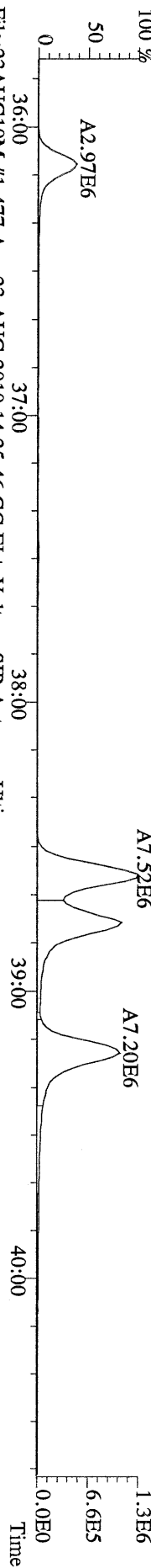
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366.9792 F:2 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



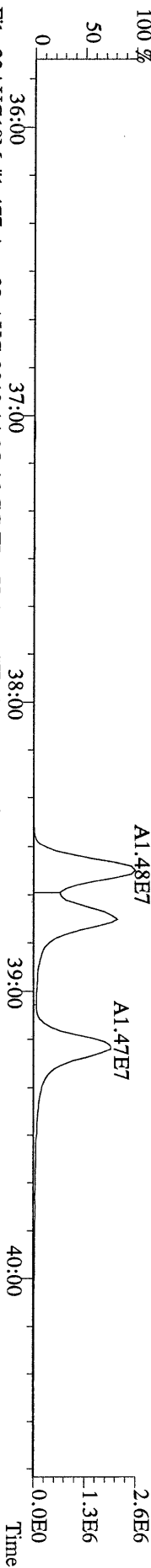
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



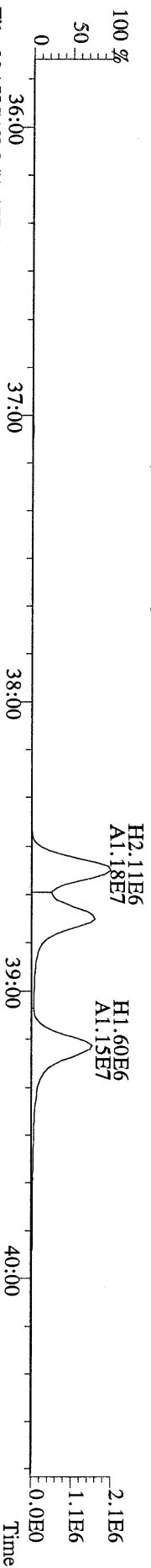
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391.8127 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



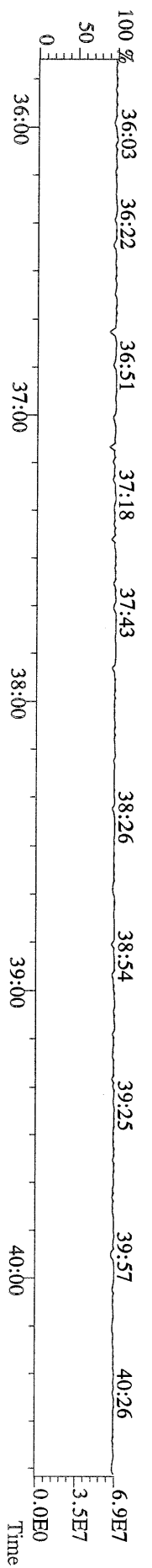
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401.8559 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



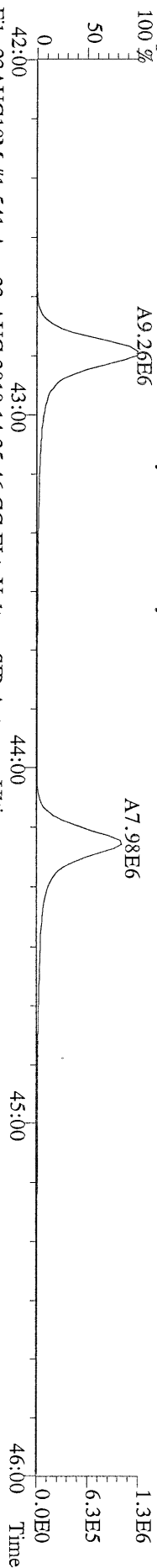
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403.8530 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



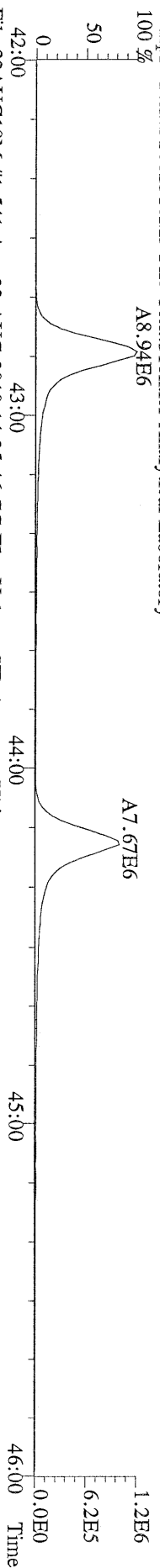
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380.9760 F:3 Exp:PCDD
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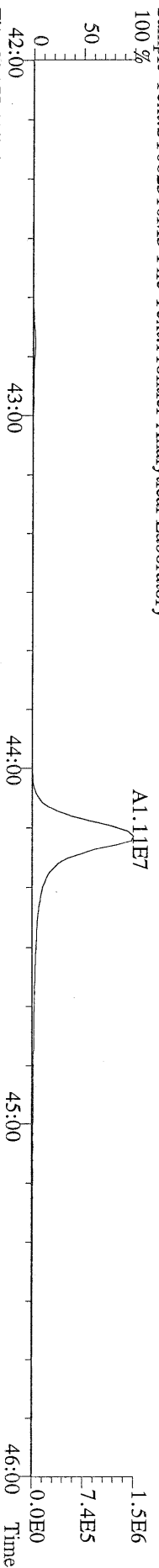
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utlima
423.7767 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



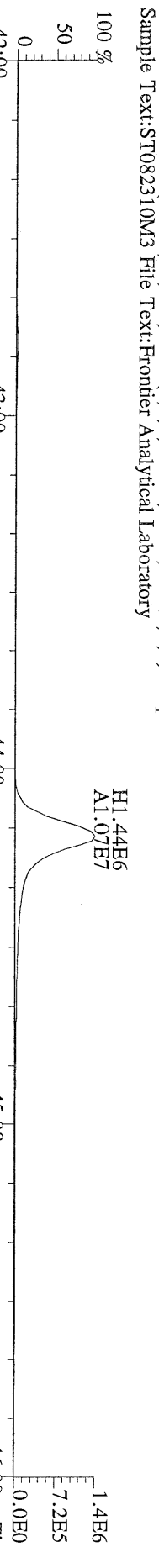
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utlima
425.7737 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



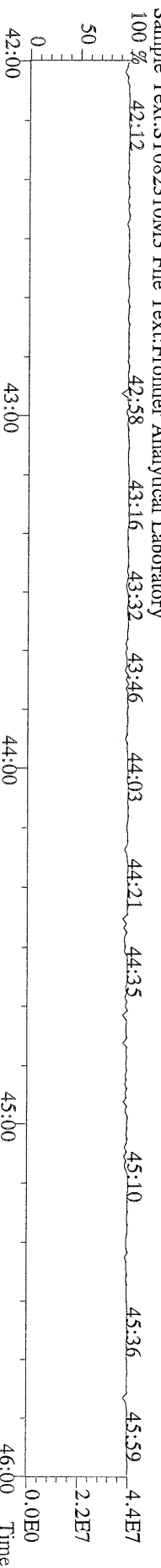
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utlima
437.8140 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



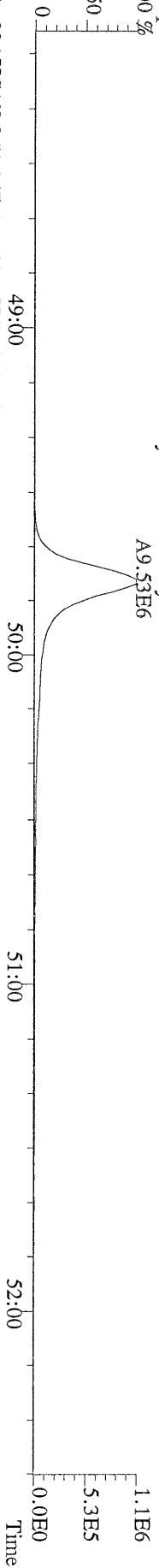
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437.8140 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



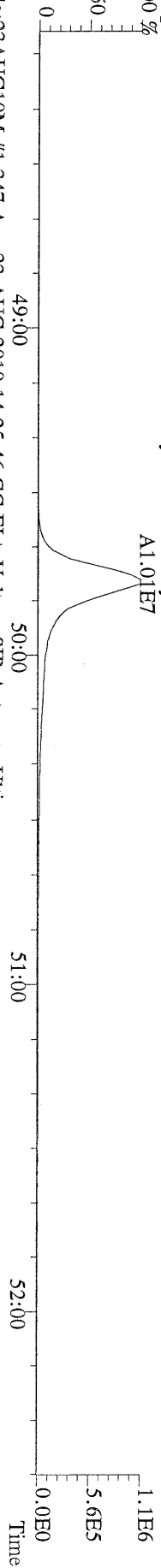
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utlima
430.9728 F:4 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



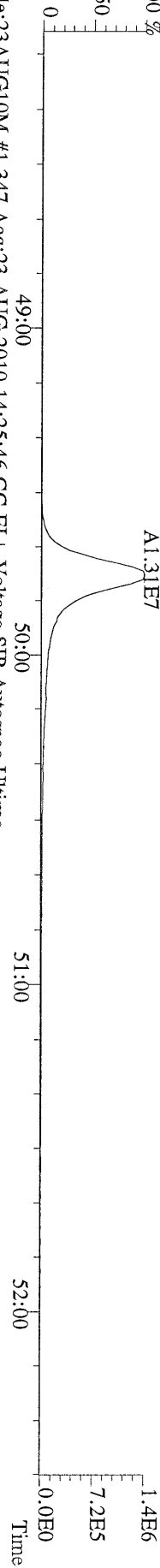
File:23AUG10M #1-347 Acq:23-AUG-2010 14:25:46 GC BI + Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory
100 %



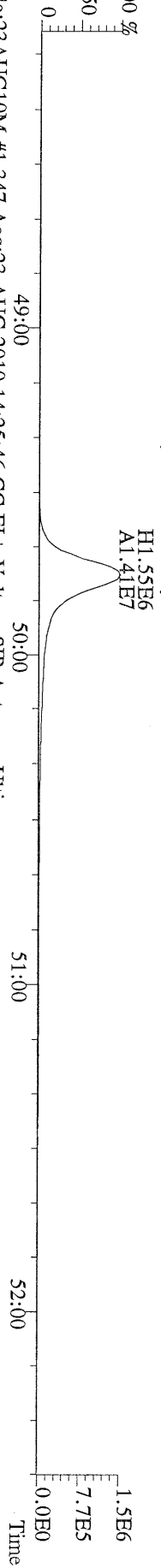
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459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory
100 %



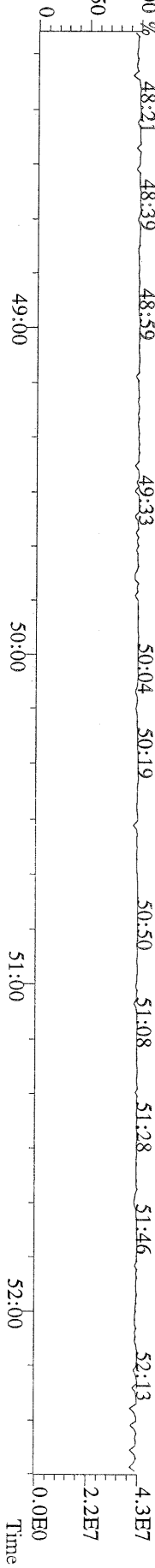
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469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory
100 %



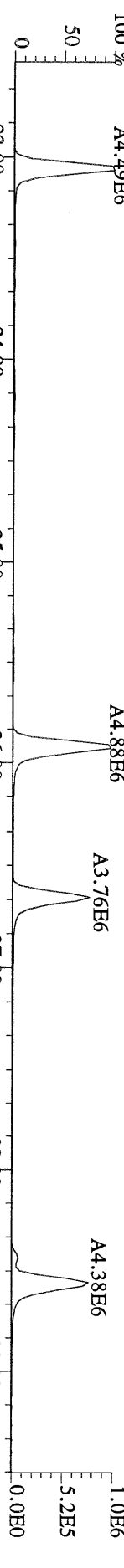
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471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



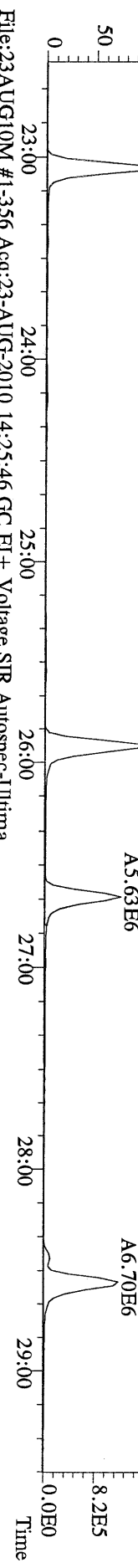
File:23AUG10M #1-347 Acq:23-AUG-2010 14:25:46 GC BI + Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



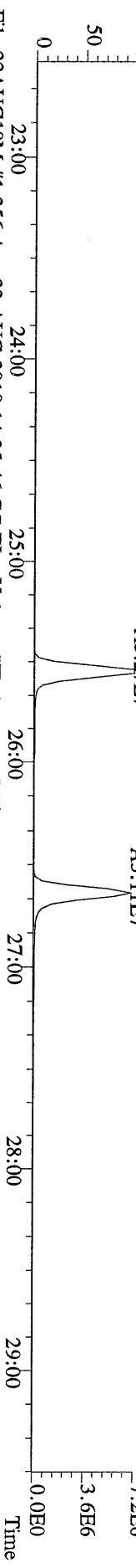
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303.9016 BSUBR(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



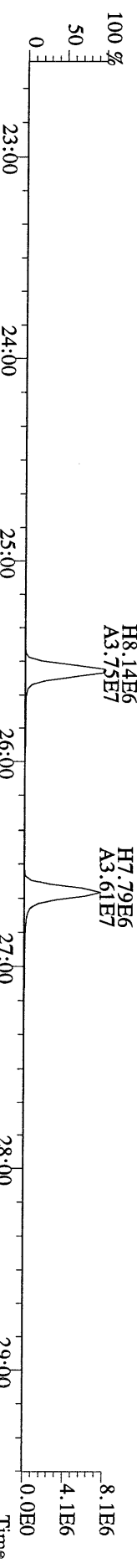
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305.8987 BSUBR(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



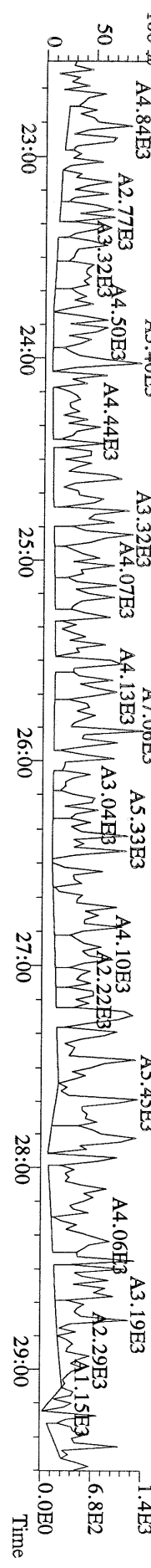
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315.9419 BSUBR(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



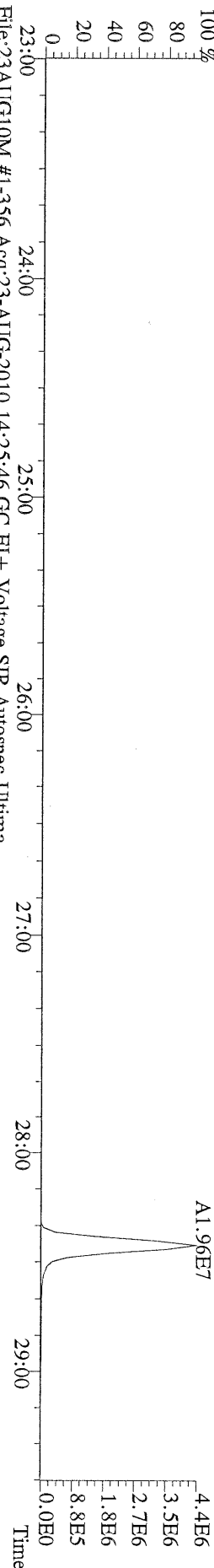
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317.9389 BSUBR(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



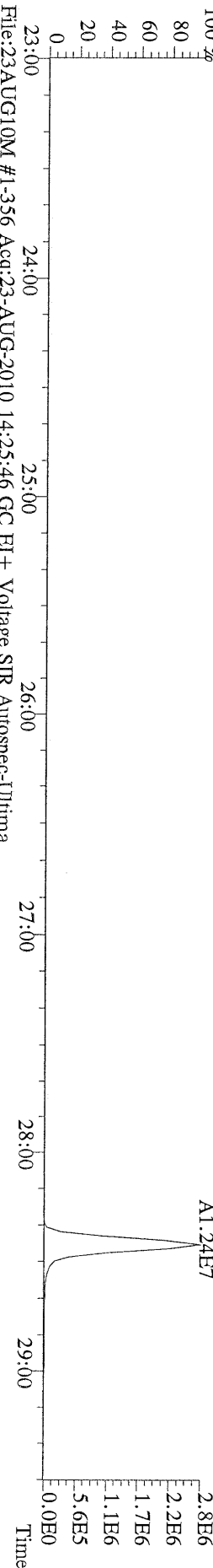
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375.8364 BSUBR(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



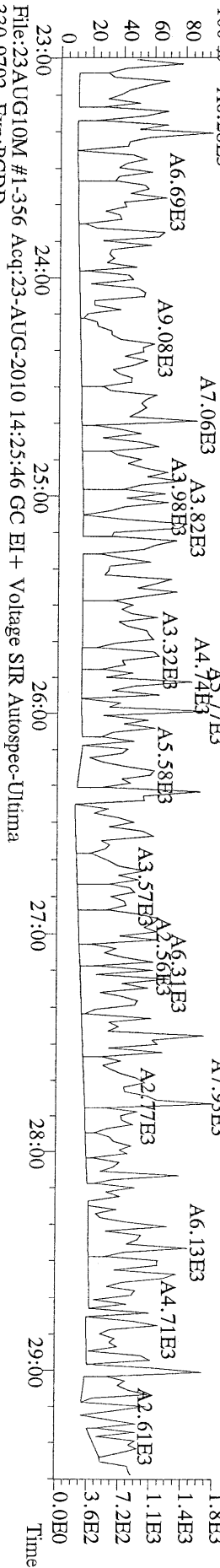
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



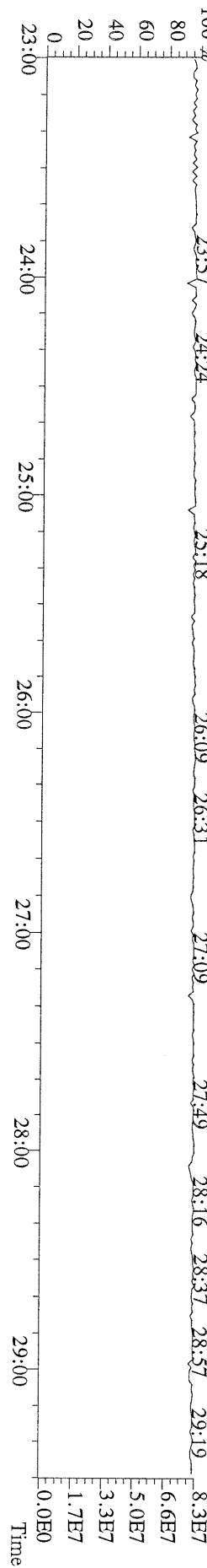
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



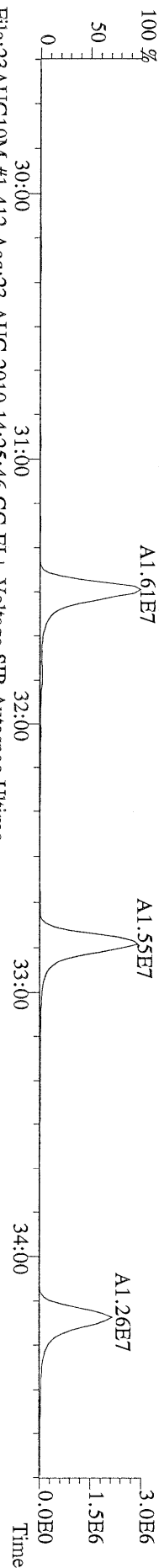
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



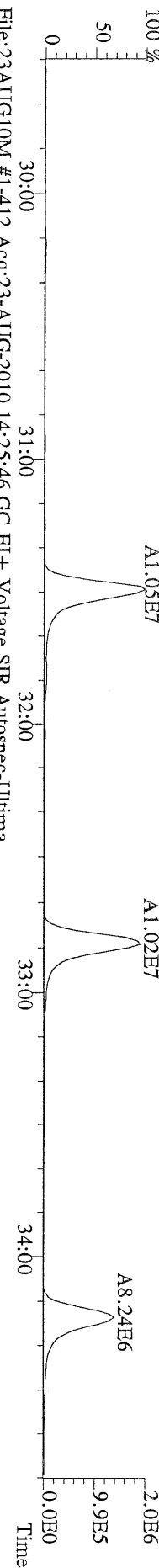
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 Exp:PCDD
 Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



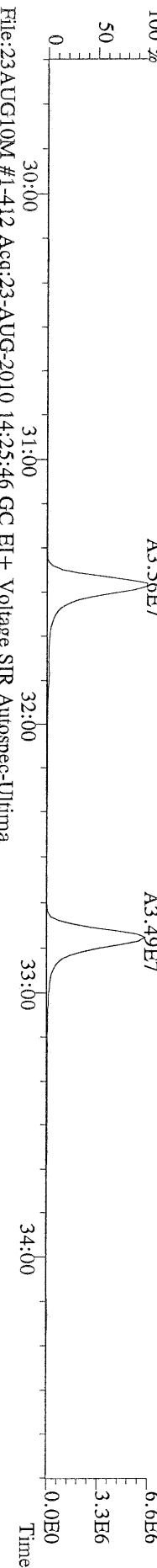
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



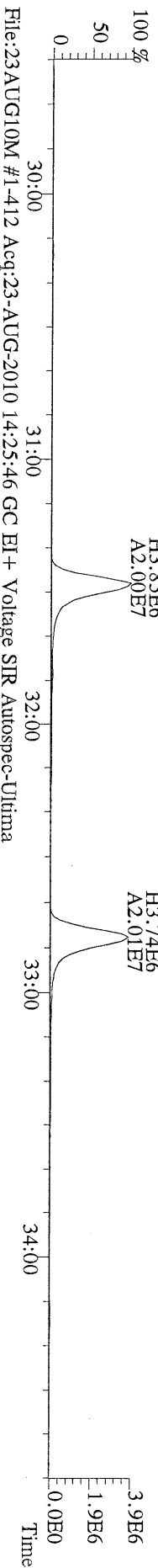
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



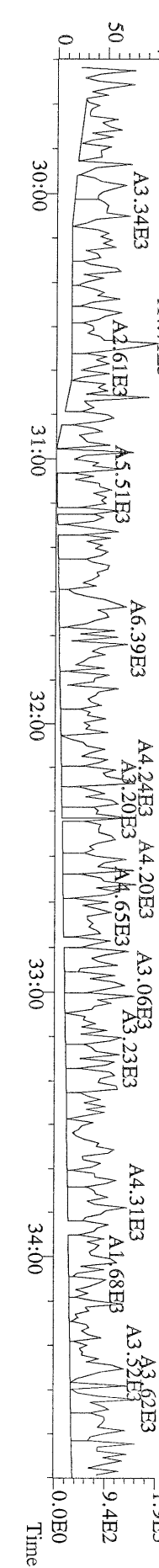
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



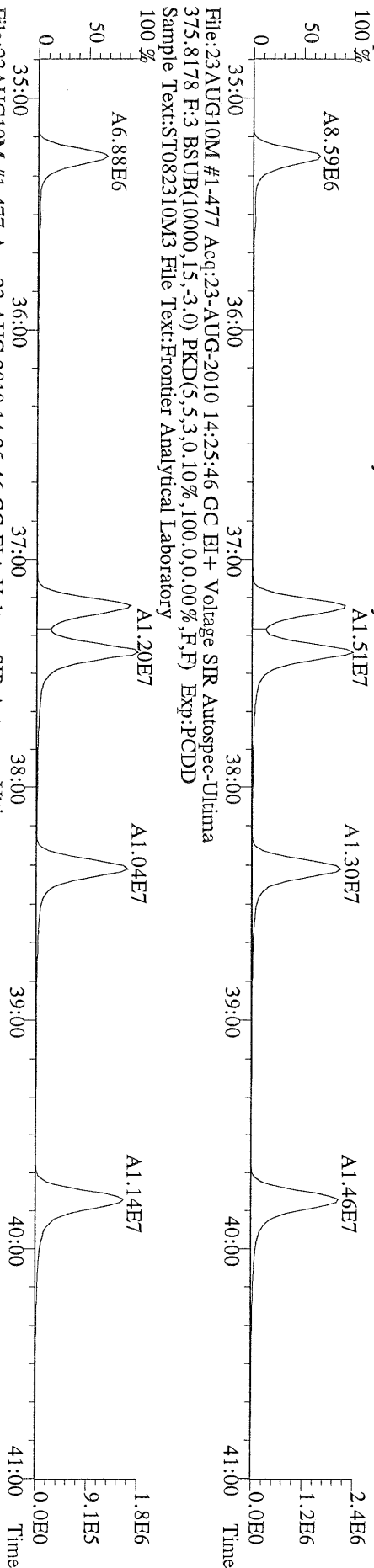
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



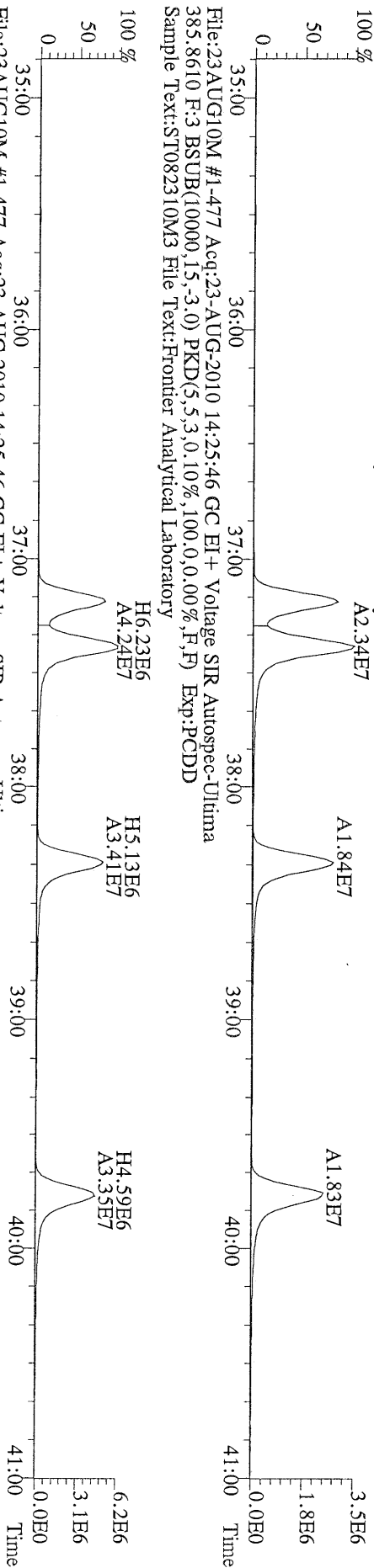
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



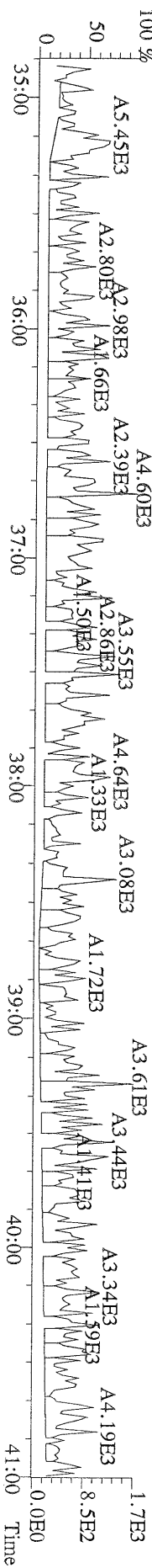
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI + Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00% F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



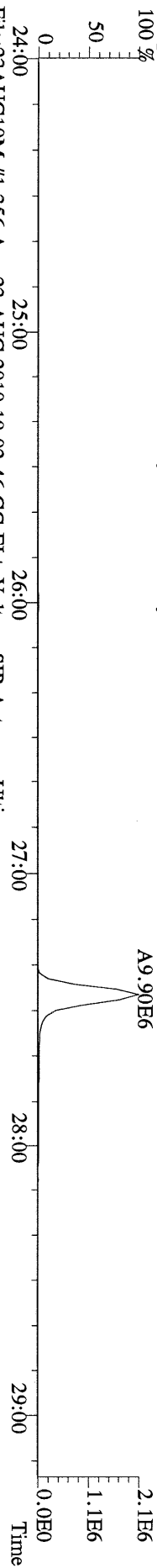
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383.8639 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00% F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



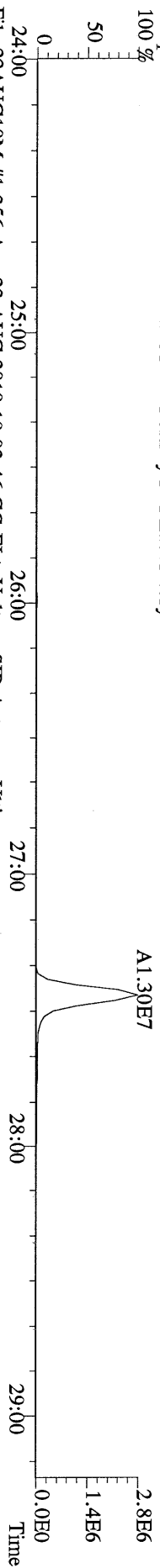
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI + Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00% F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



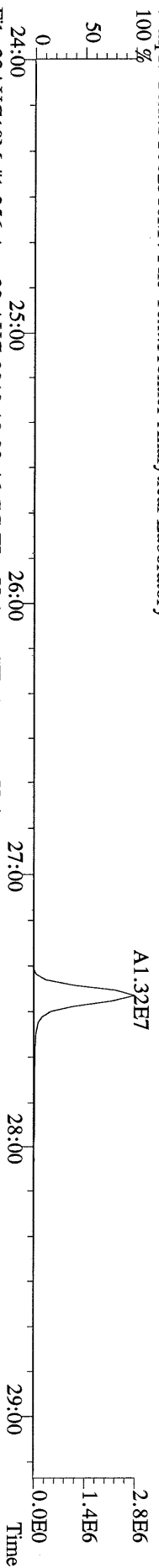
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319,8965 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



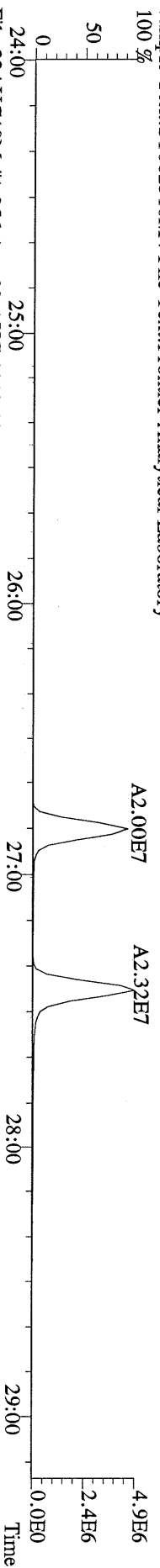
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321,8936 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



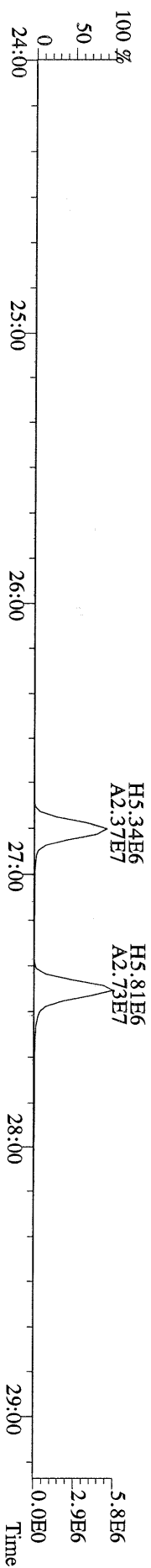
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327,8847 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



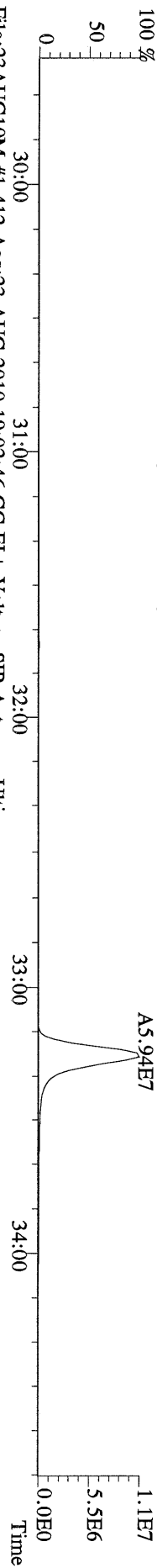
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
331,9368 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



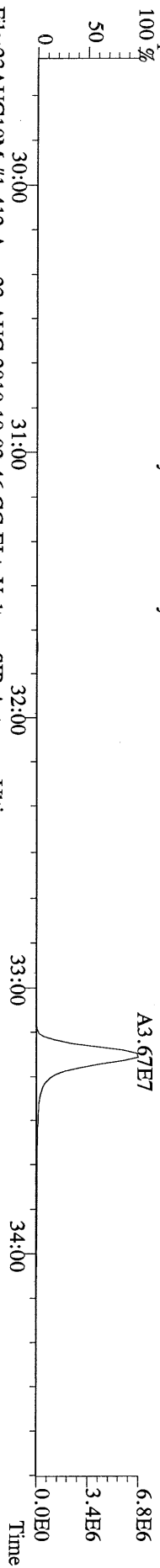
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
333,9339 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



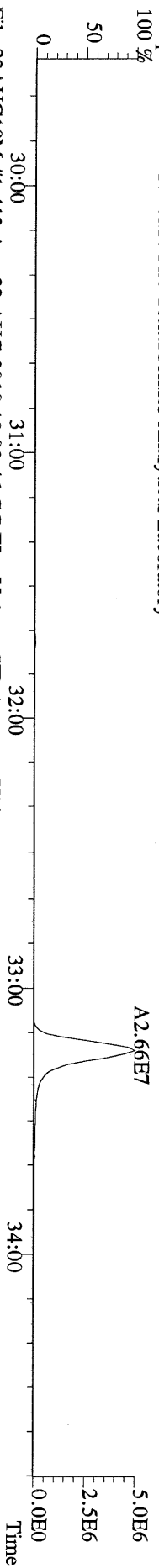
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



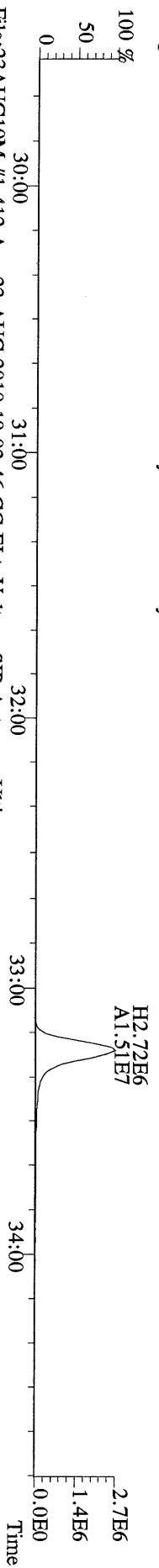
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357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



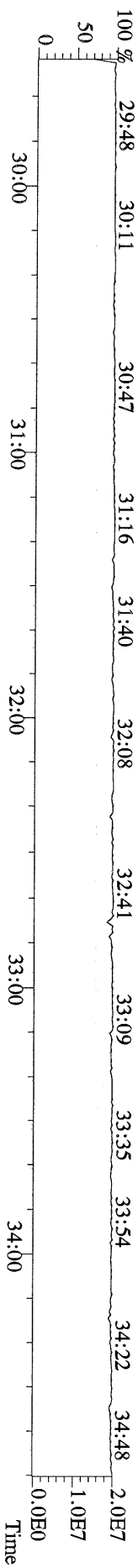
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367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



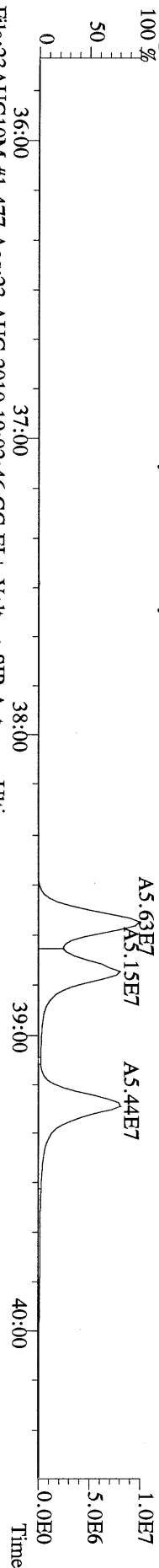
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369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



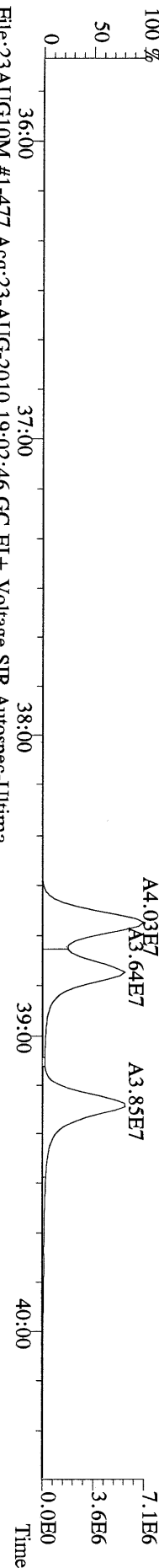
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366.9792 S:6 F:2 Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



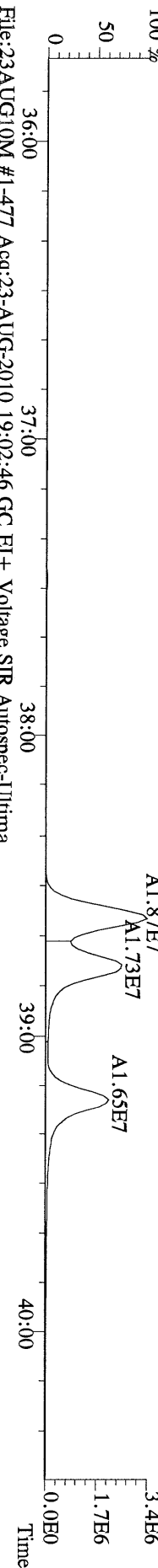
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 389.8156 S:6 F:3 BSUB(10000,15,-3.0) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



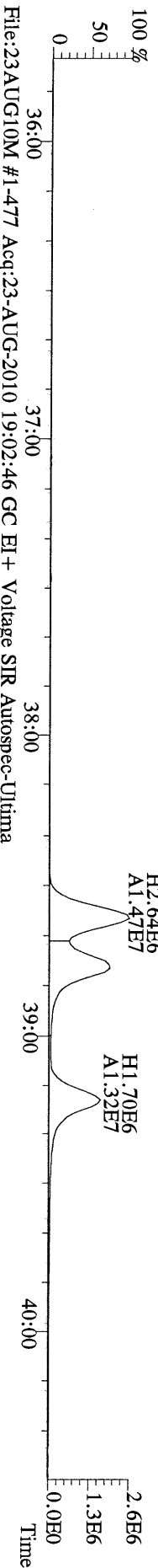
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 391.8127 S:6 F:3 BSUB(10000,15,-3.0) Exp:PCDD
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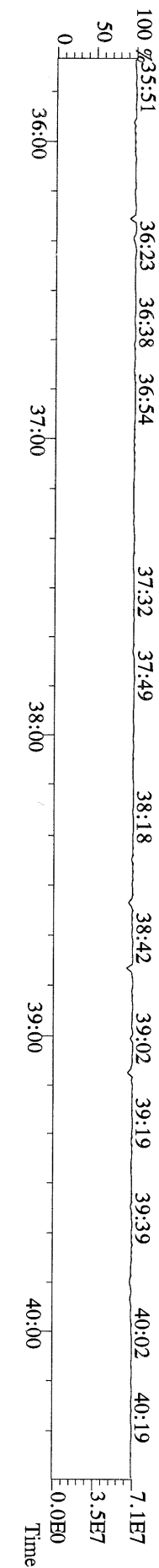
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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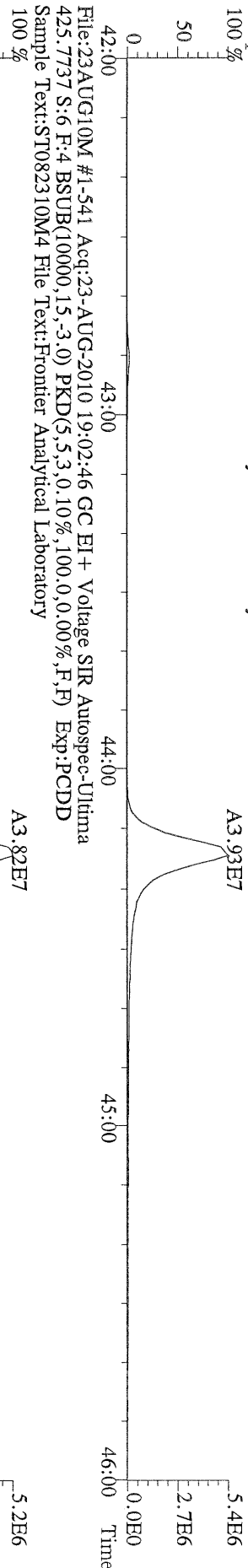
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 403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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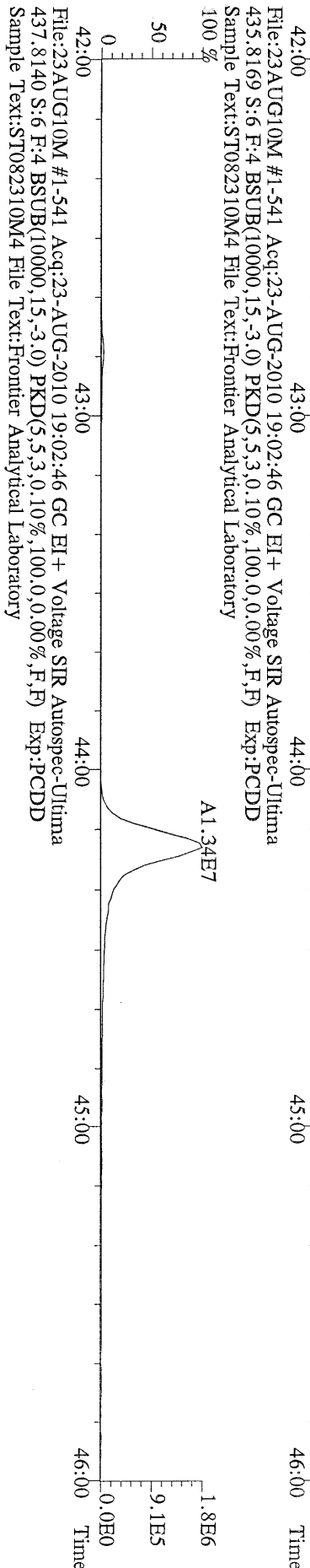
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 380.9760 S:6 F:3 Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



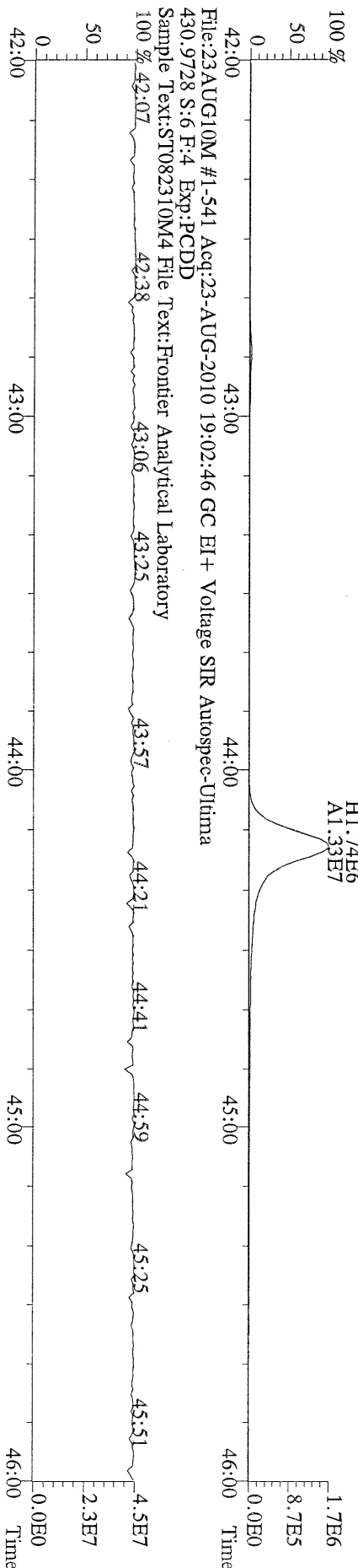
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



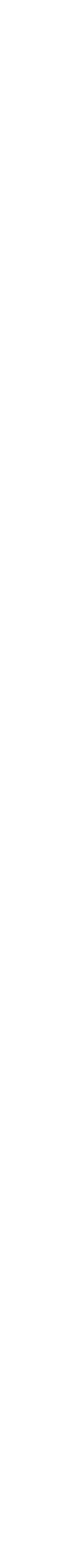
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



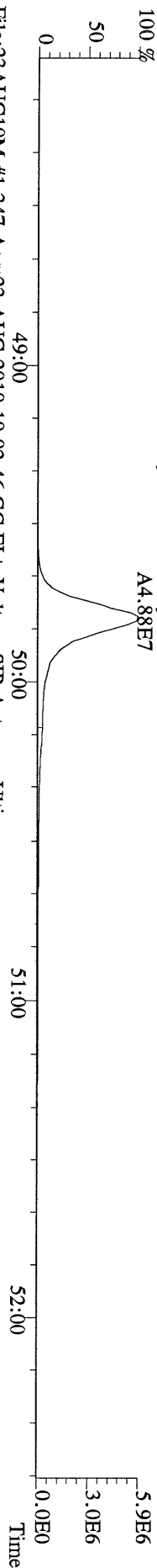
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437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



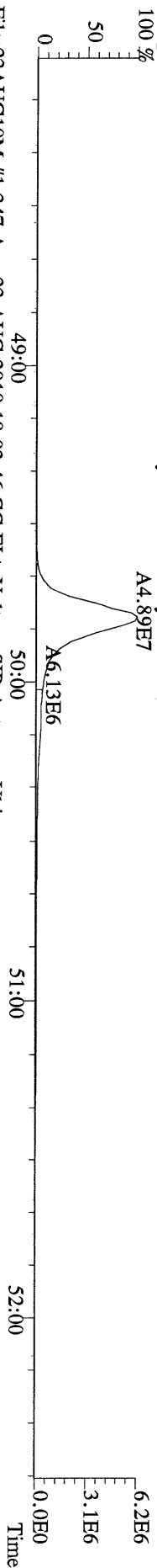
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:6 F:4 Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



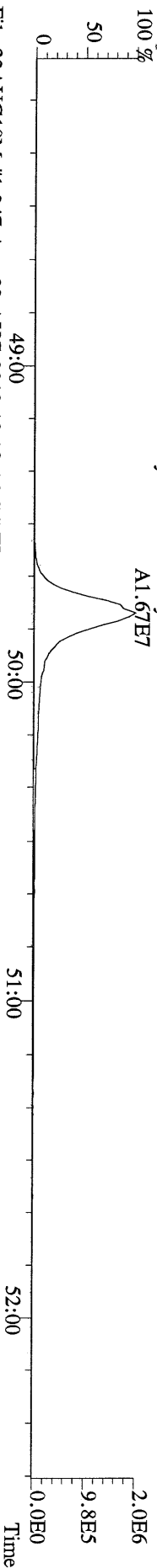
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
 457.7377 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
 100 %



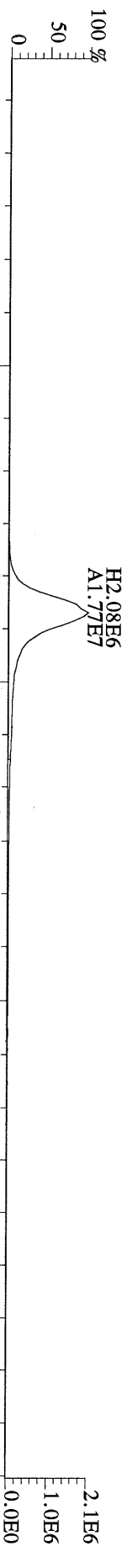
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
 459.7348 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
 100 %



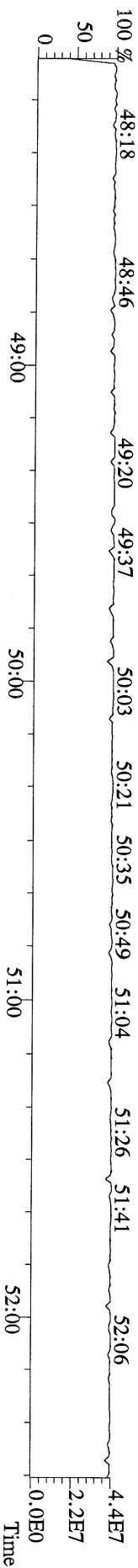
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
 469.7780 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
 100 %



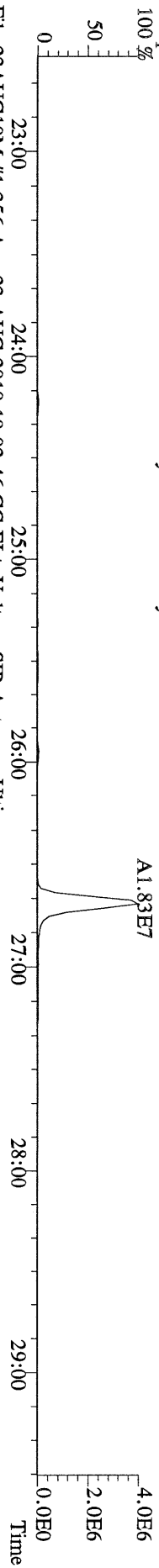
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
 471.7750 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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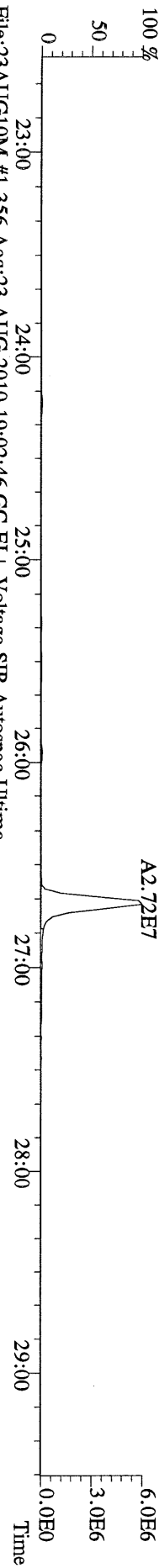
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
 454.9728 S:6 F:5 Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



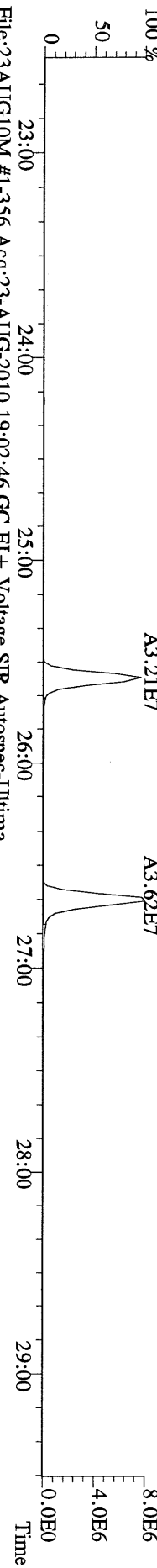
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



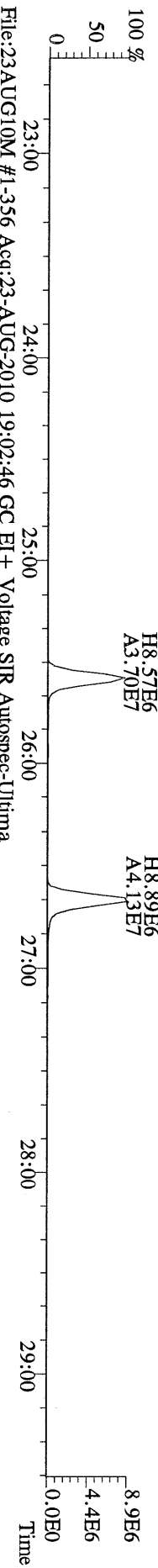
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
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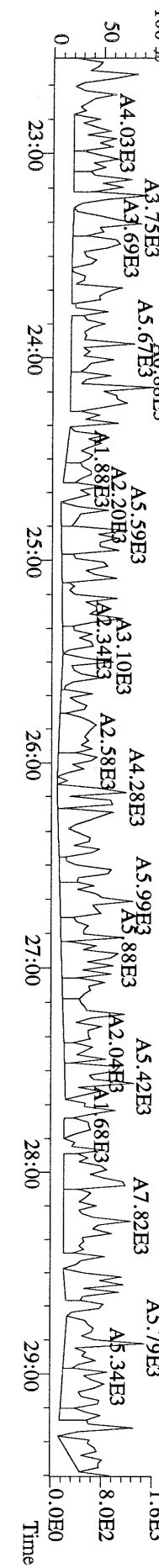
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



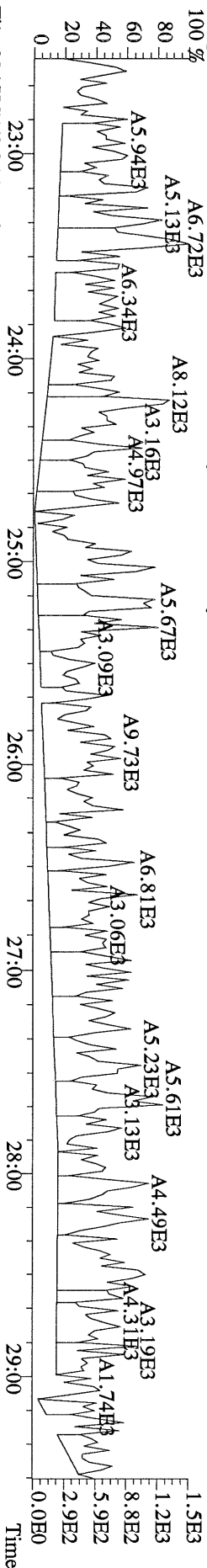
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317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



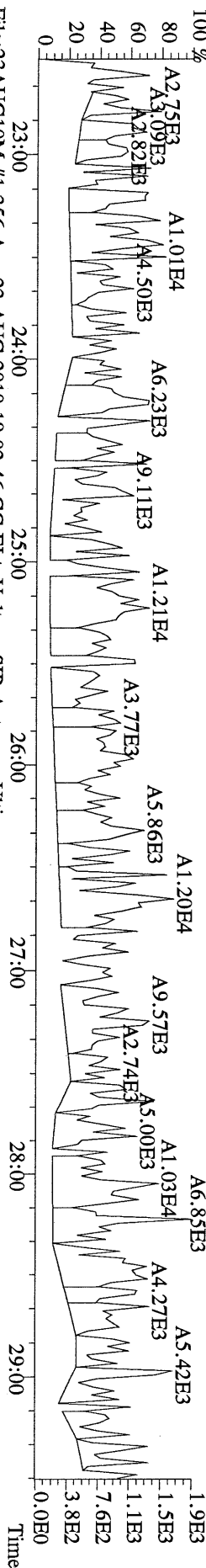
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375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



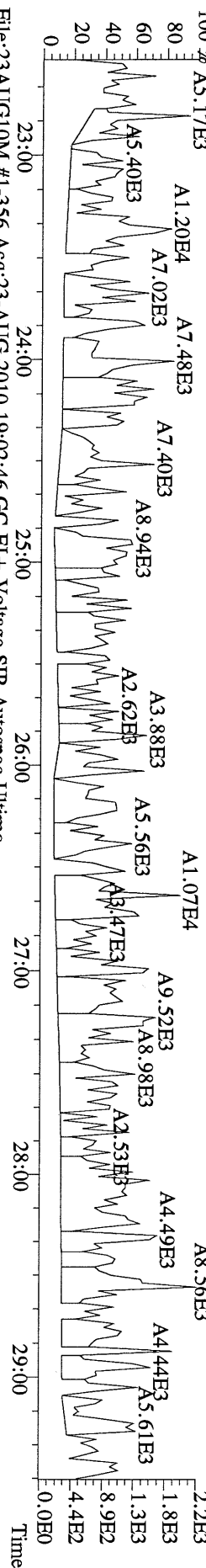
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 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



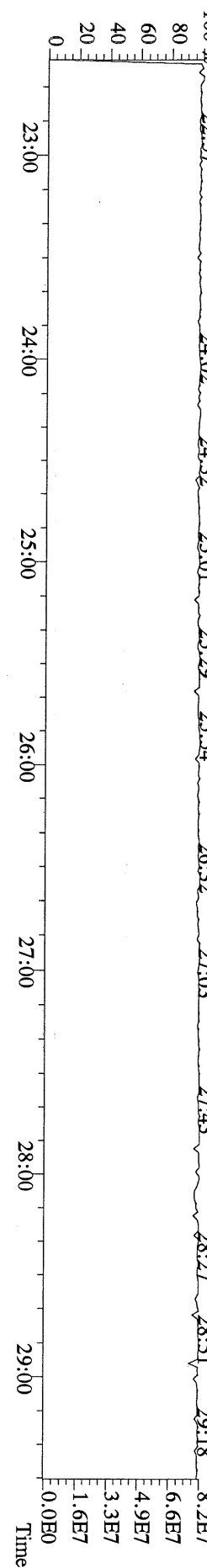
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



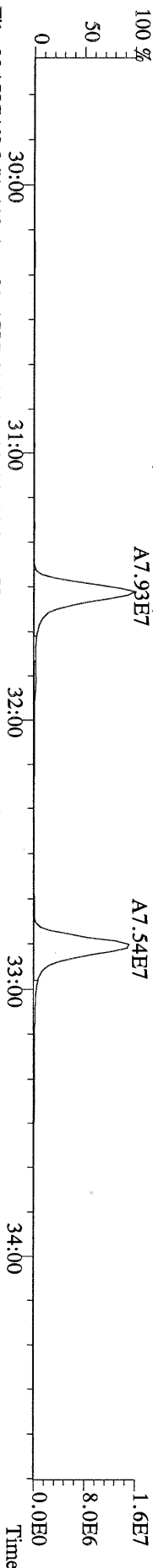
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



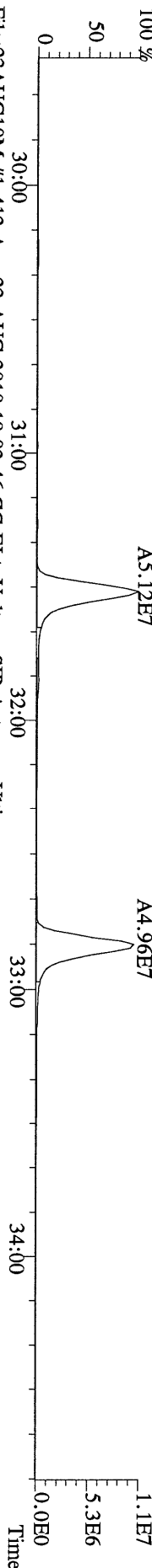
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 LOCK MASS CHECK S:6 Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



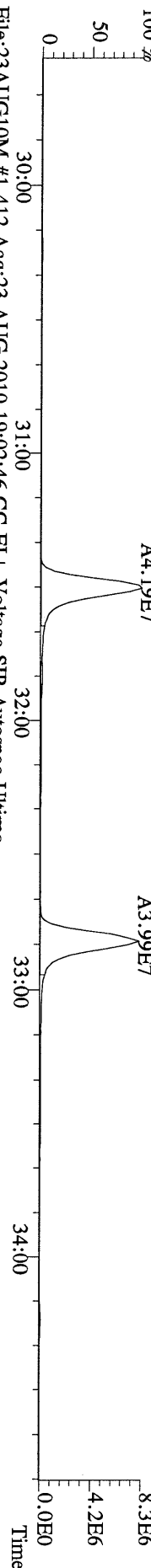
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 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



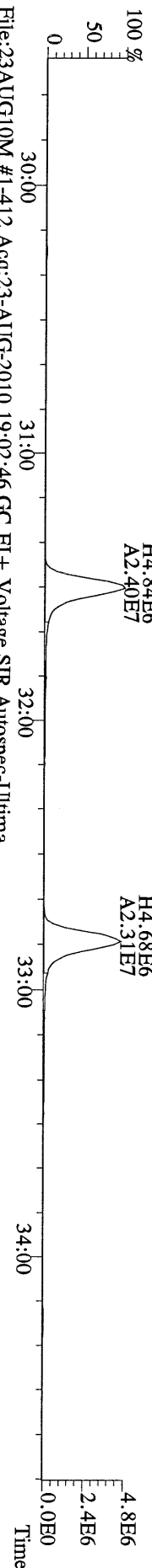
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 341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



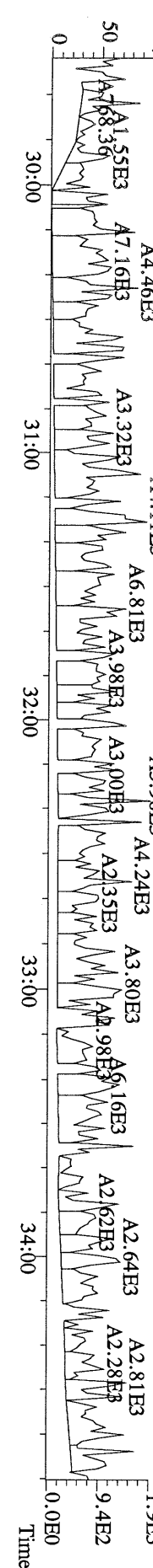
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 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



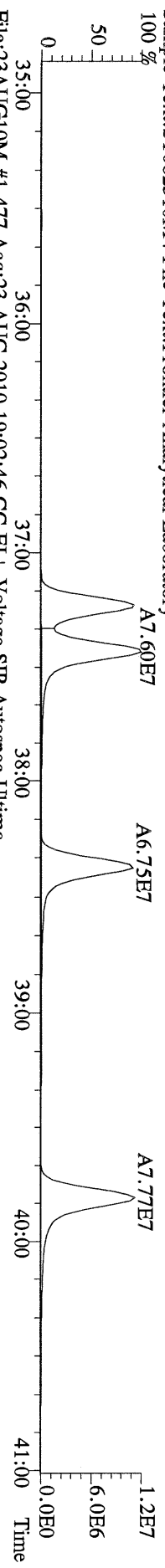
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 353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



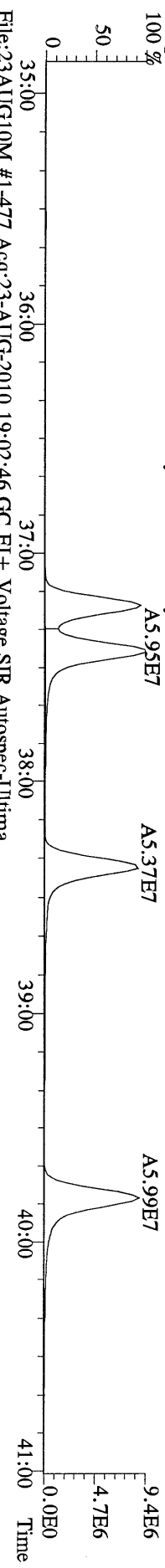
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 409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



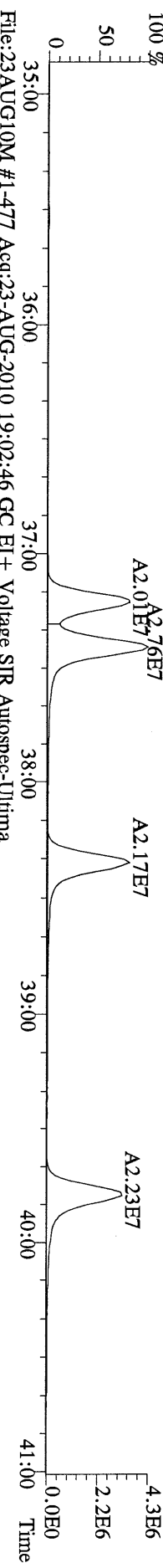
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



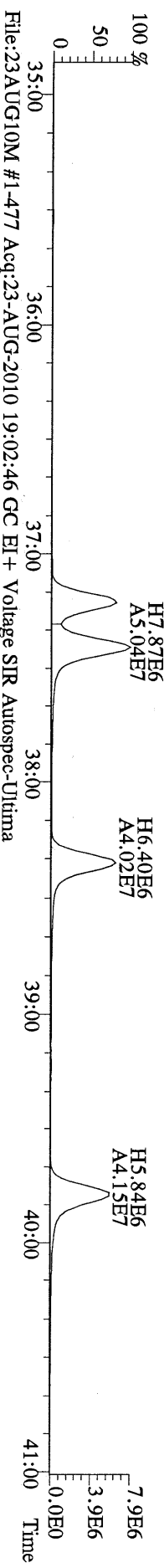
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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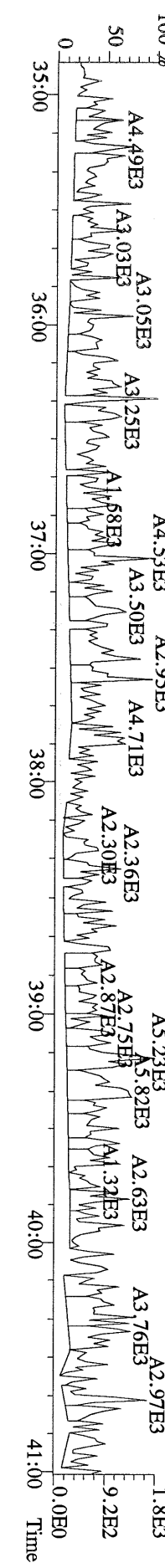
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



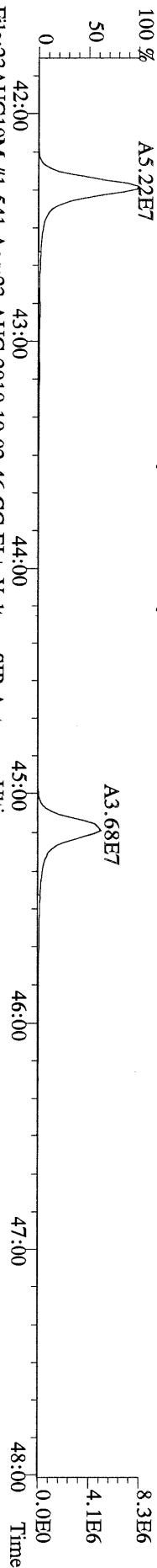
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



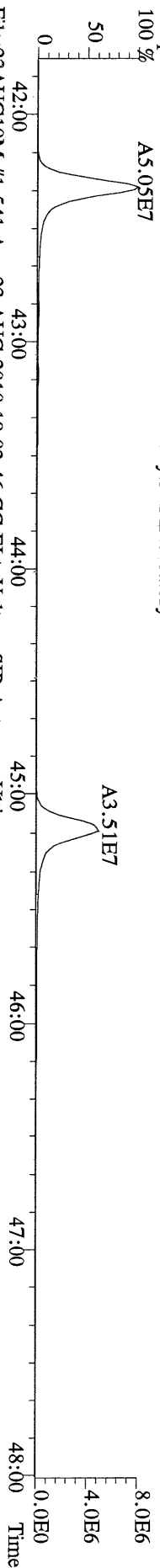
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 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



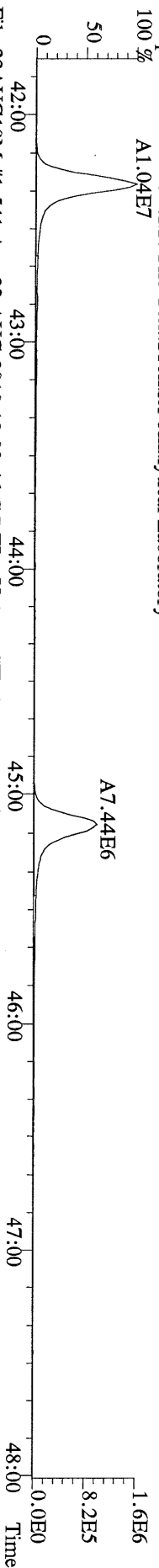
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



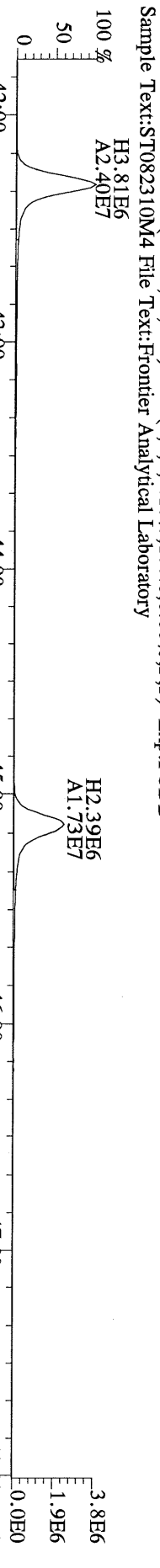
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409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



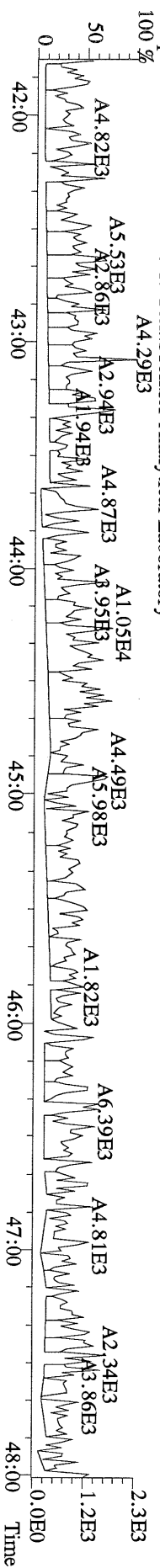
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417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



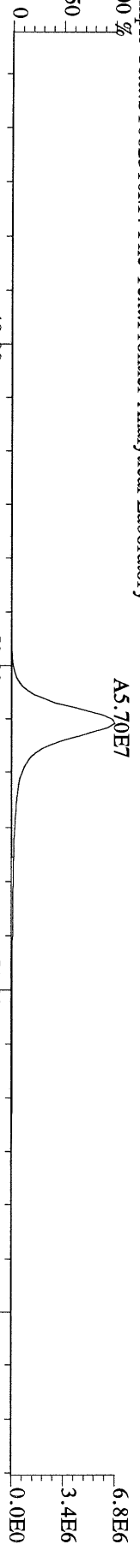
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419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



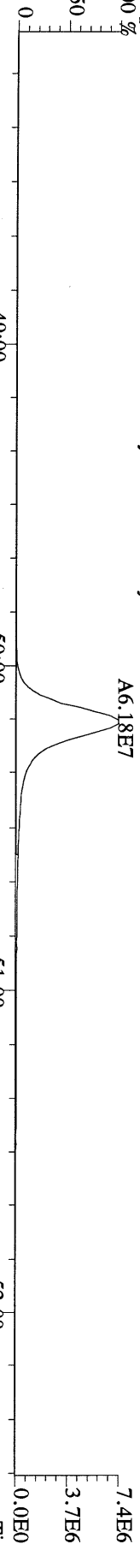
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479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



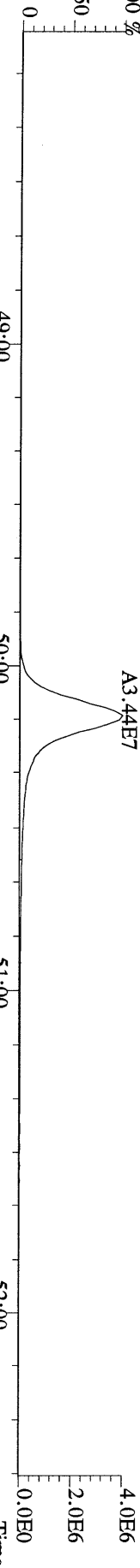
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SHR Autospec-Ultima
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



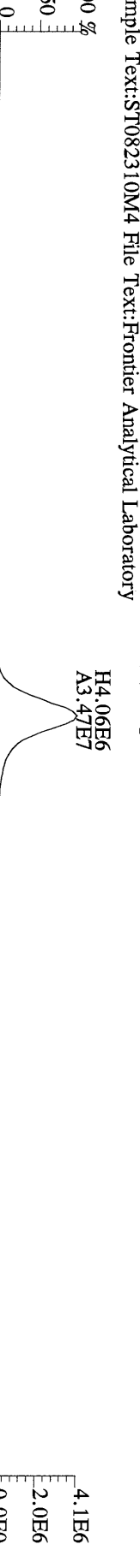
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443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



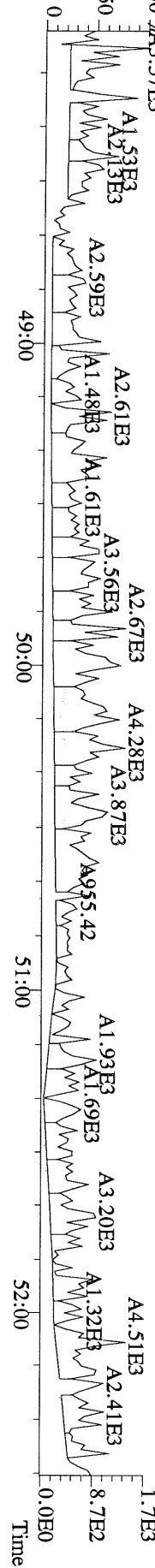
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453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



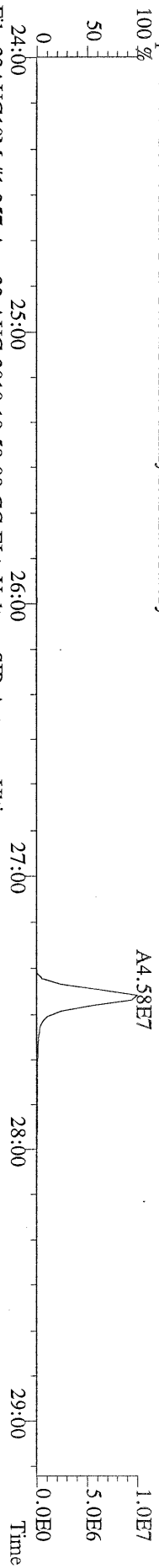
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455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



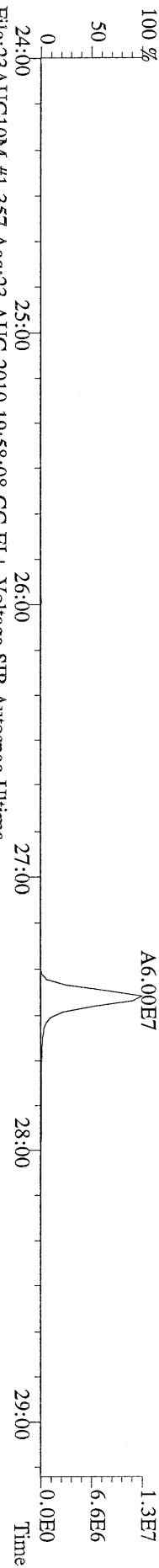
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513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



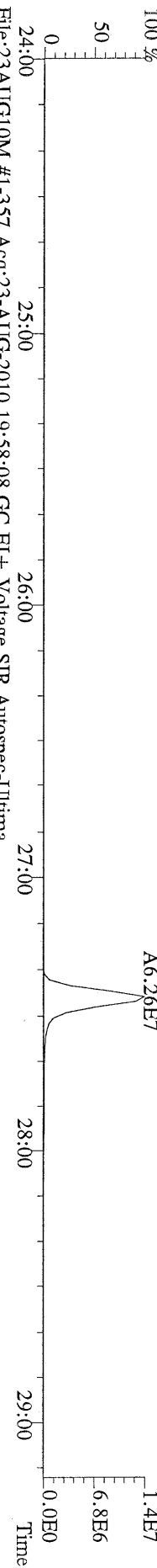
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



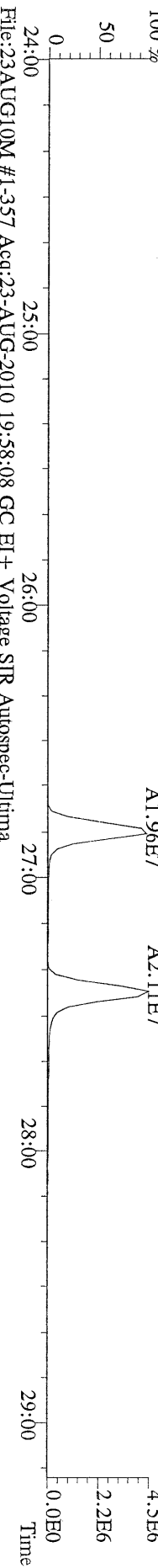
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321.8936 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
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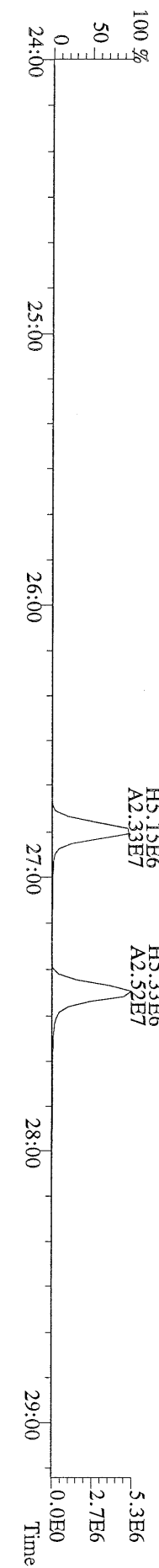
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327.8847 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



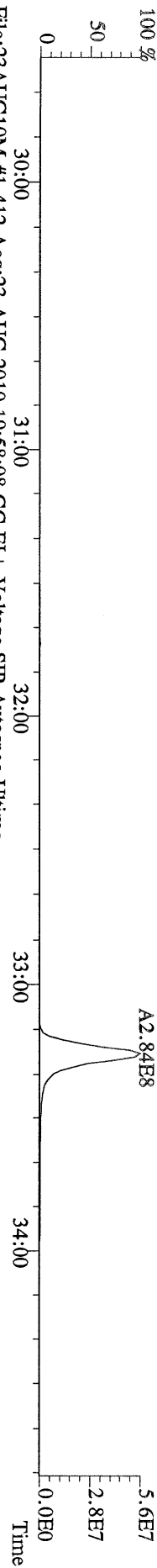
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331.9368 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



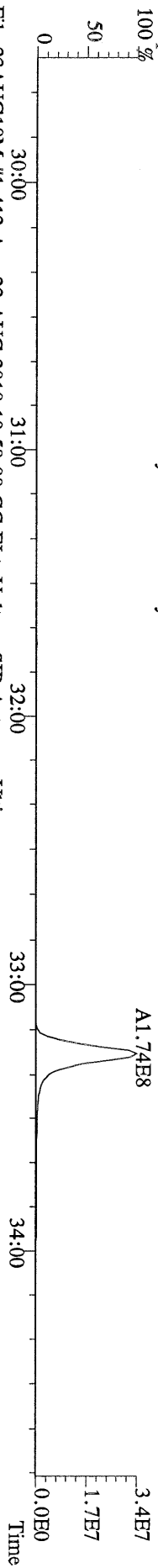
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333.9339 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



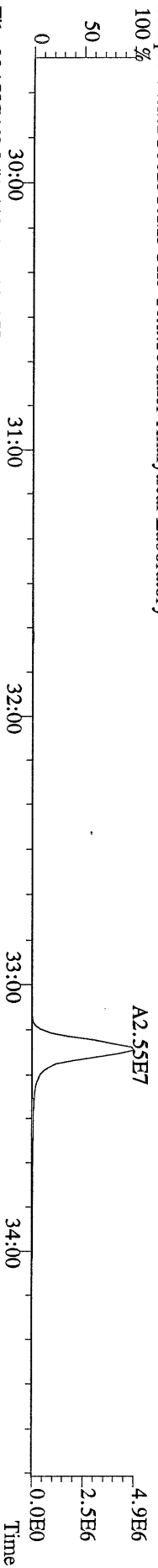
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355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



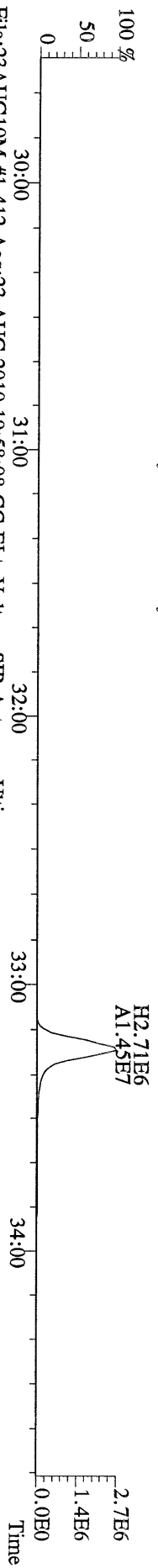
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357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



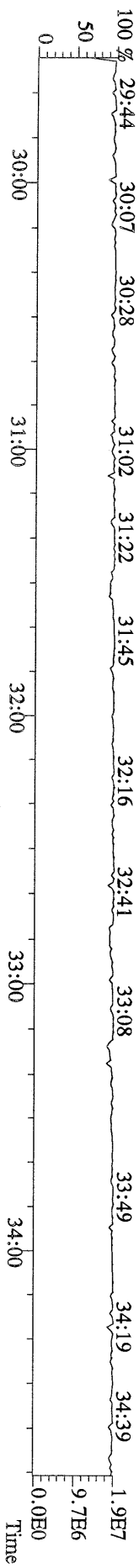
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



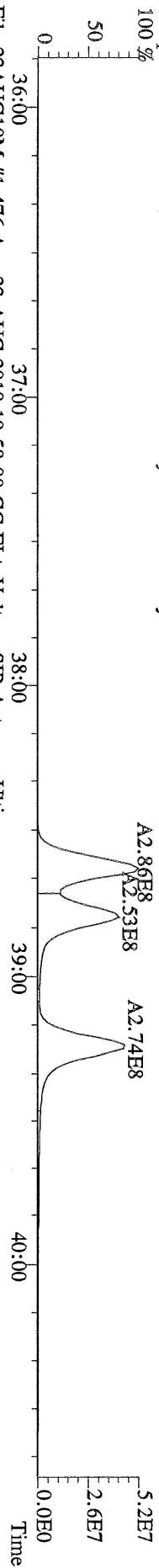
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369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



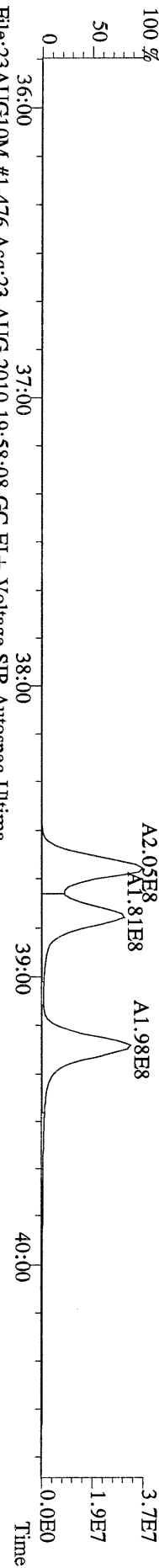
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:7 F:2 Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



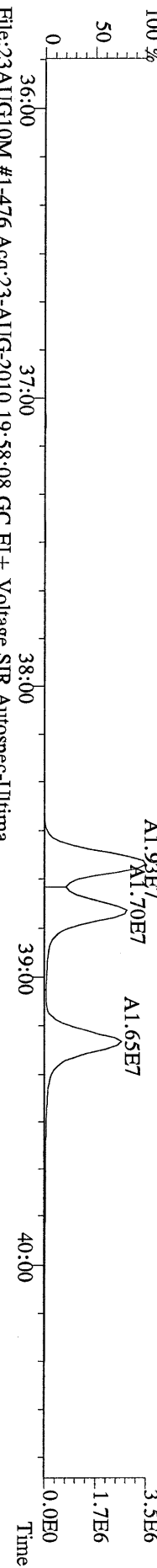
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389.8156 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



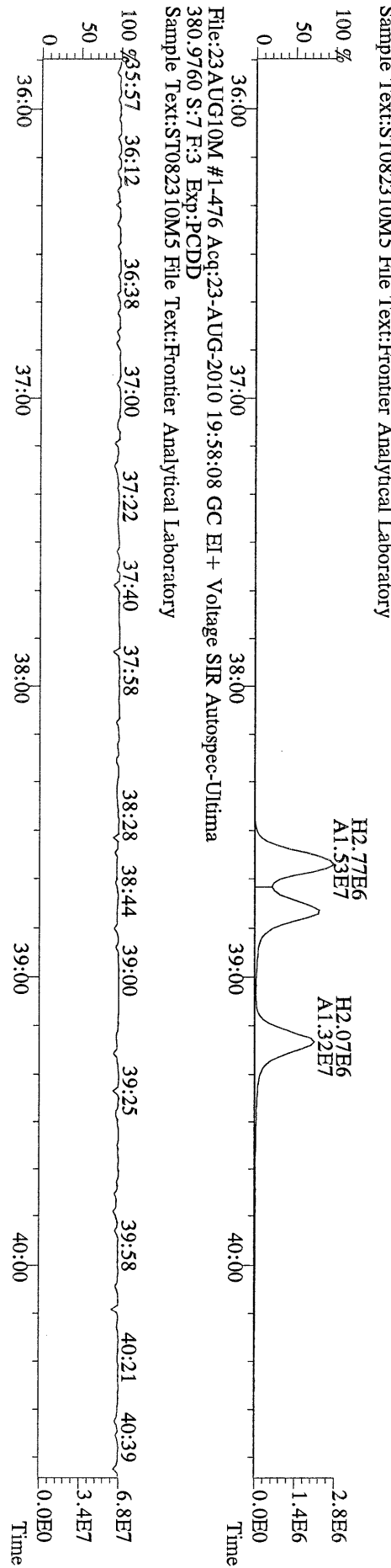
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



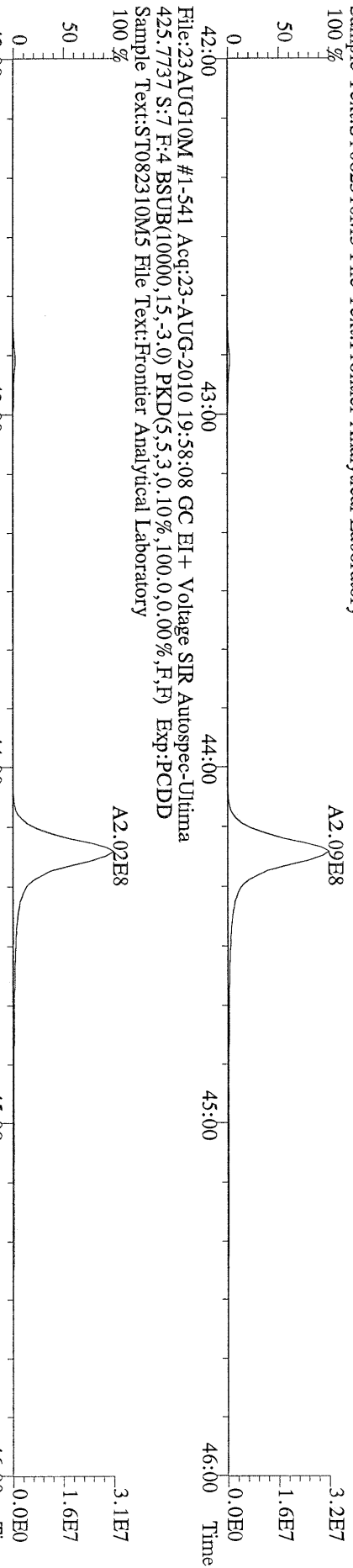
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



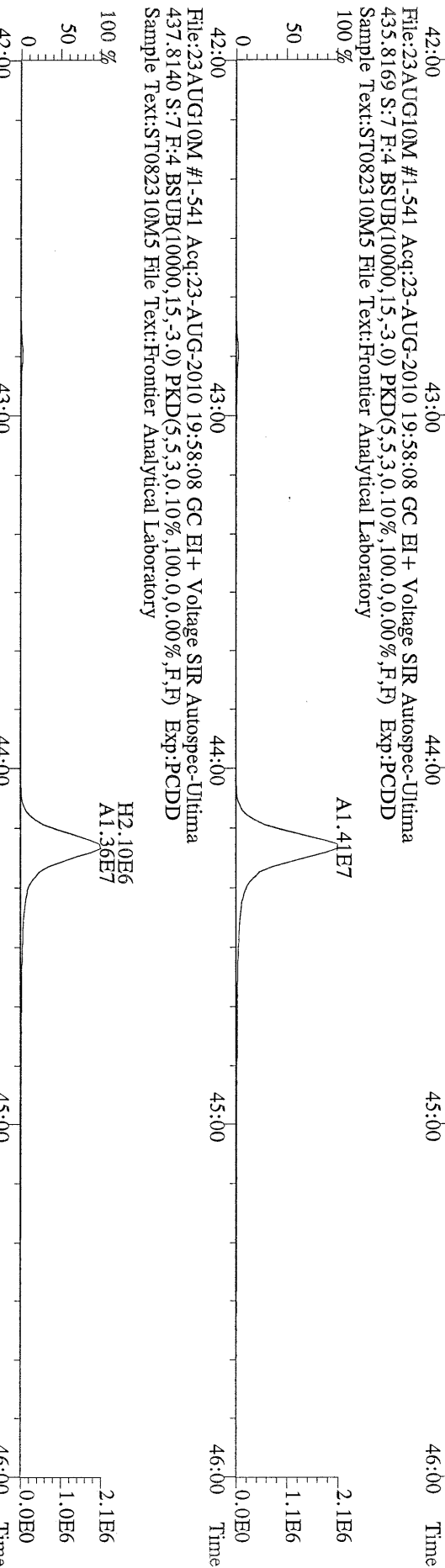
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Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



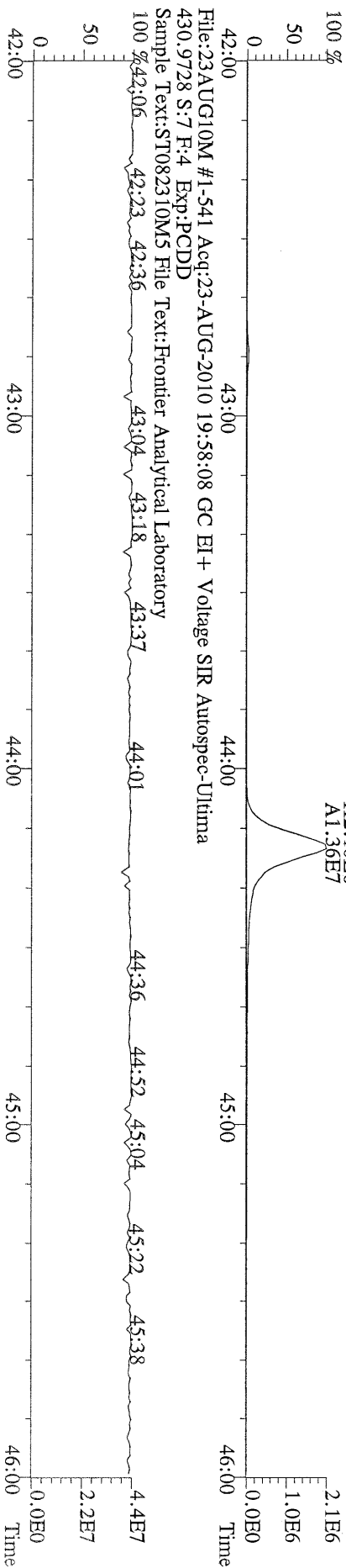
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100 %



File:23AUG10M #1-541 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:7 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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100 %

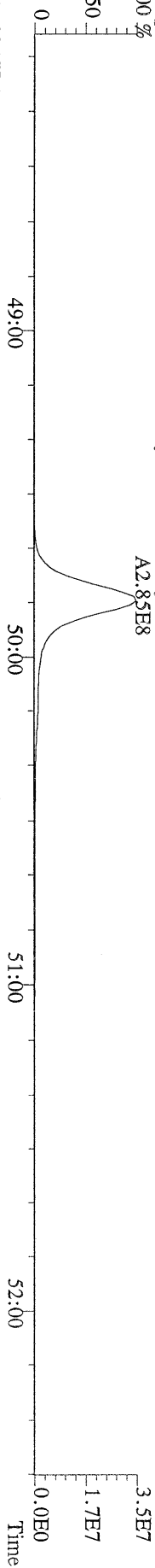


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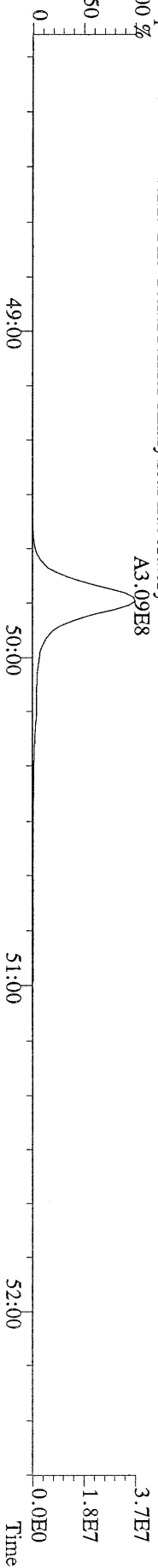


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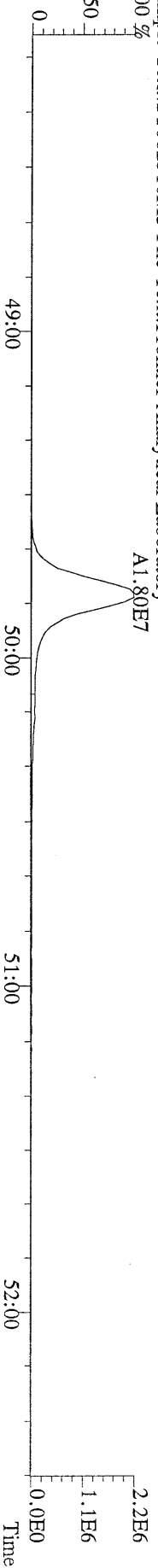
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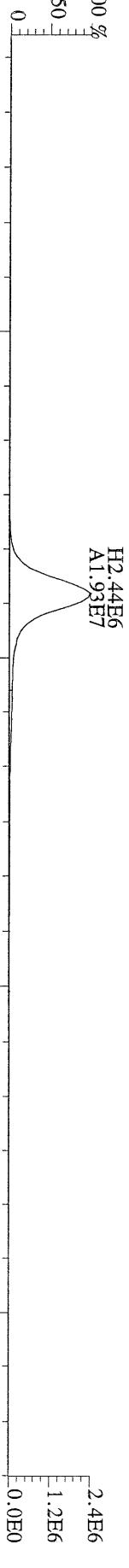
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100 %



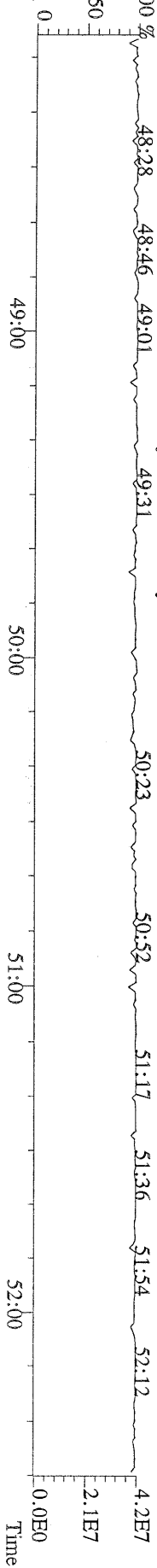
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100 %



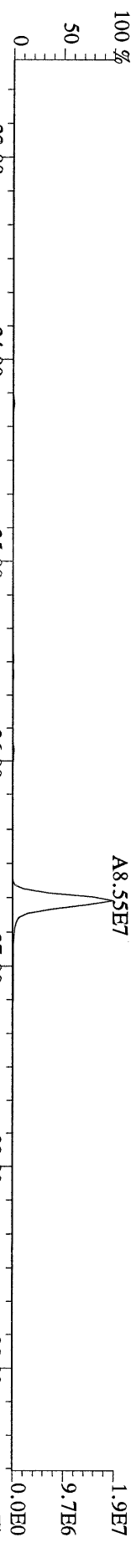
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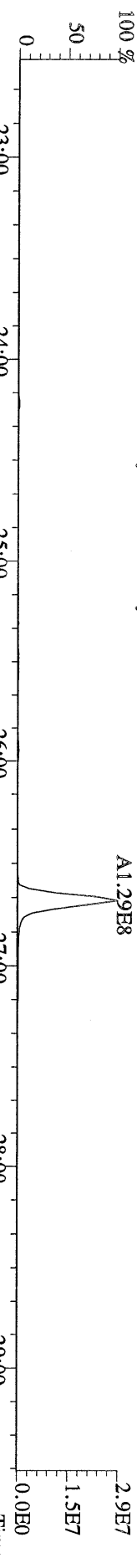
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Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



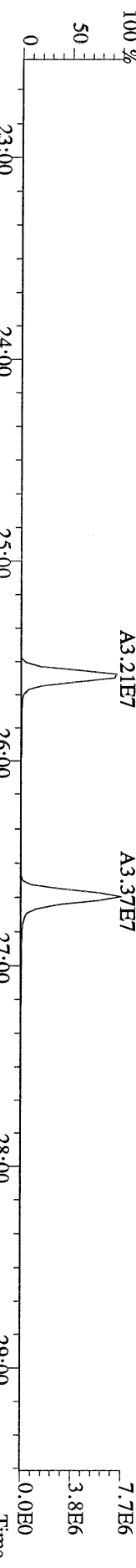
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Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



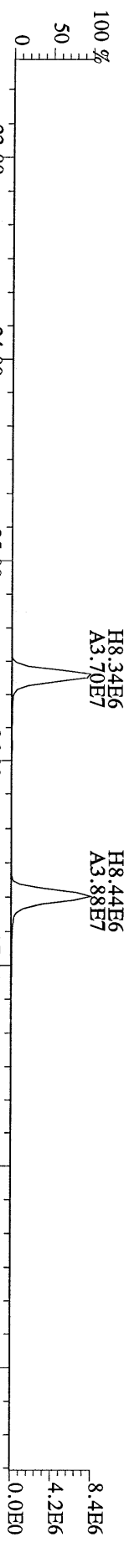
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305.8987 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



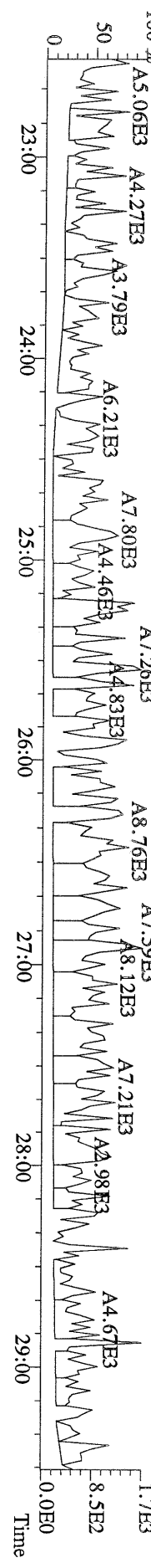
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315.9419 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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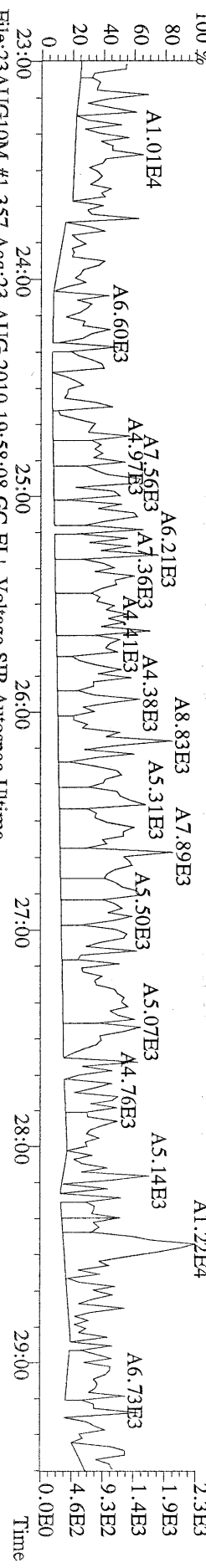
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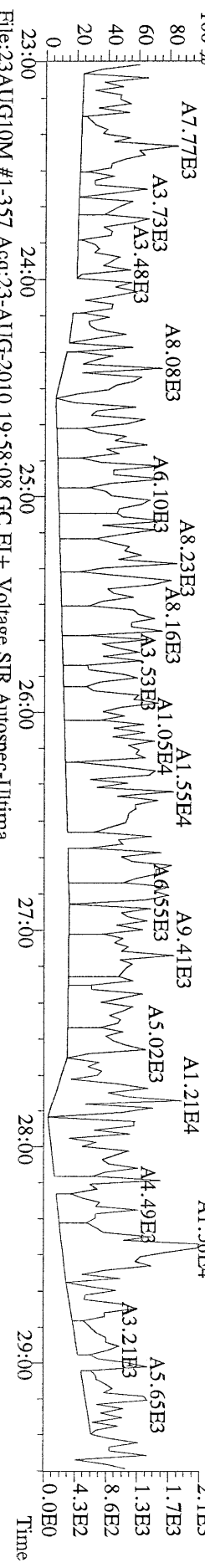
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375.8364 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



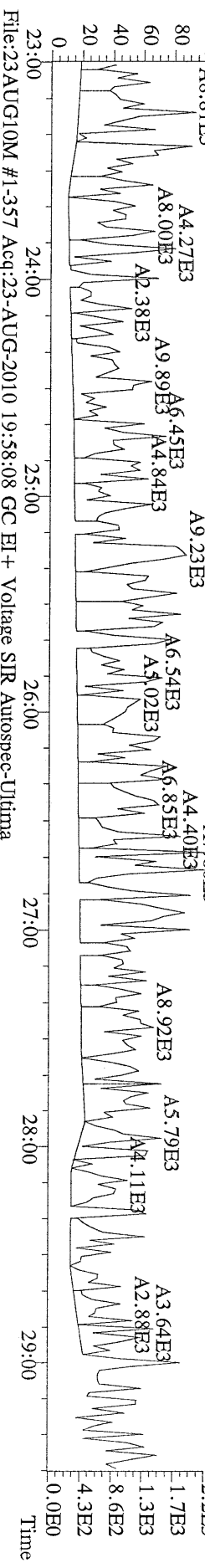
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 Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



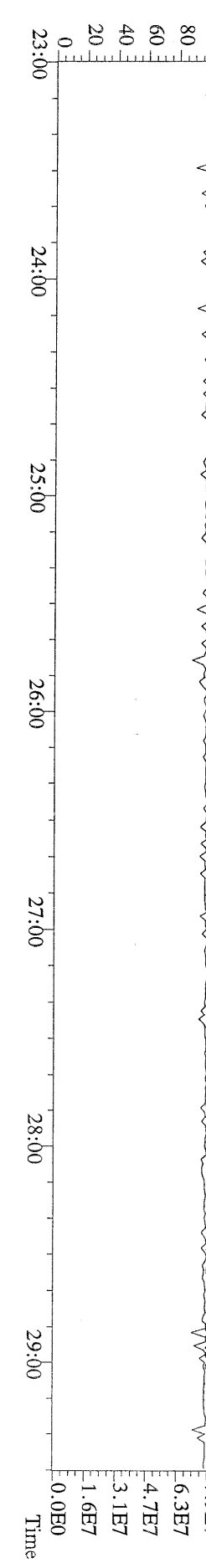
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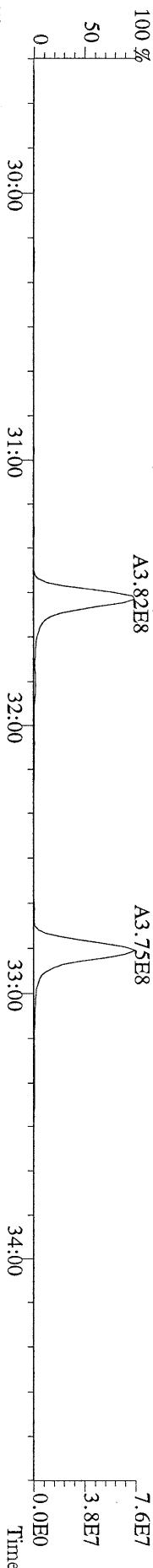
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 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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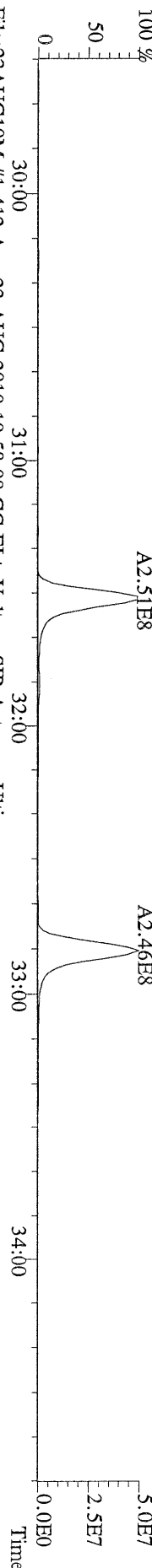
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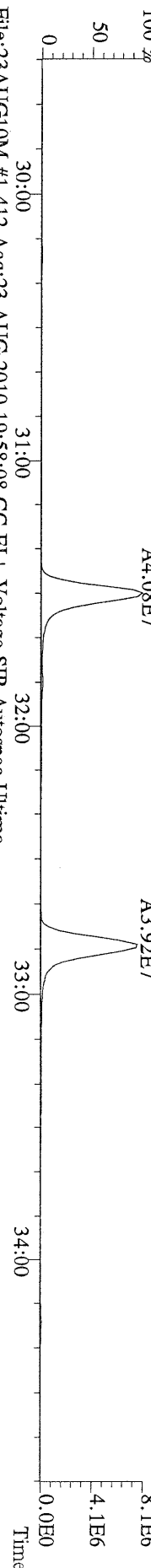
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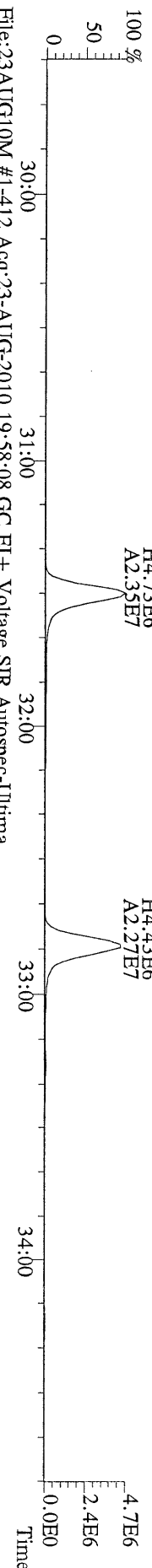
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 341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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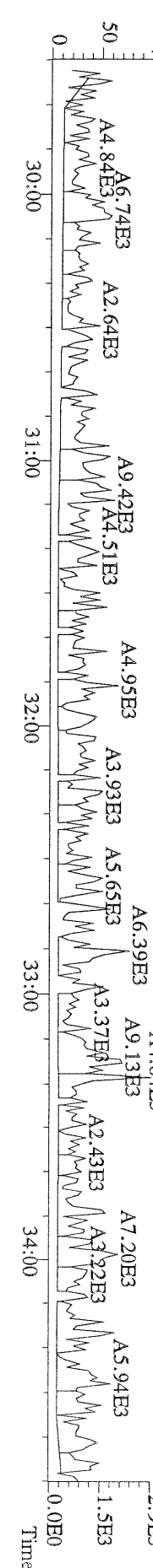
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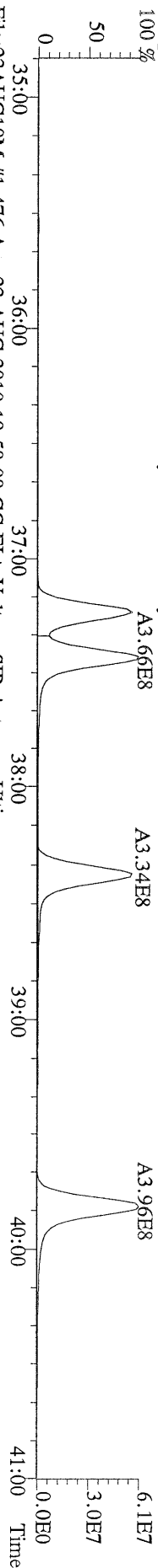
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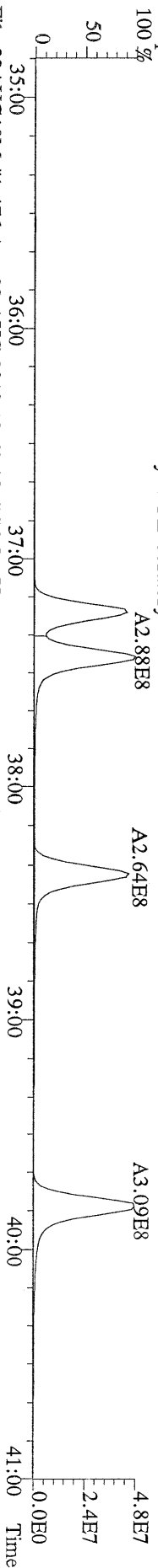
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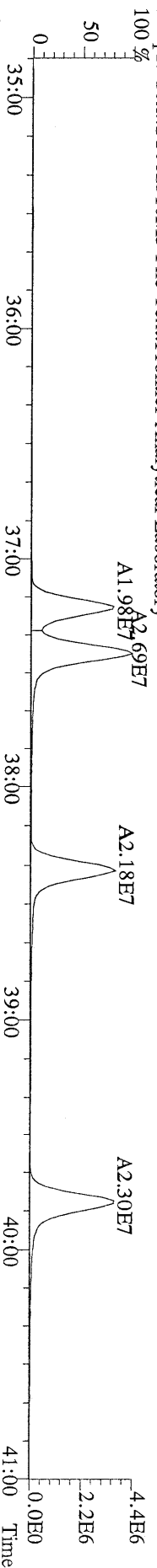
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373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



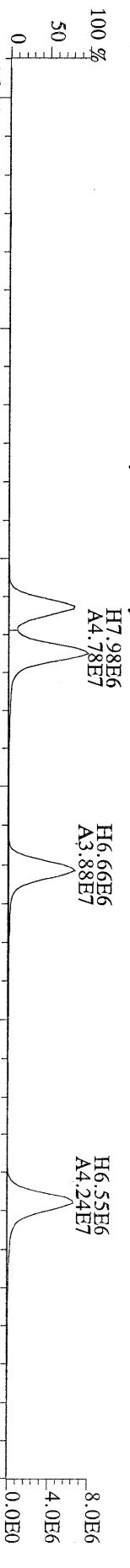
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375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
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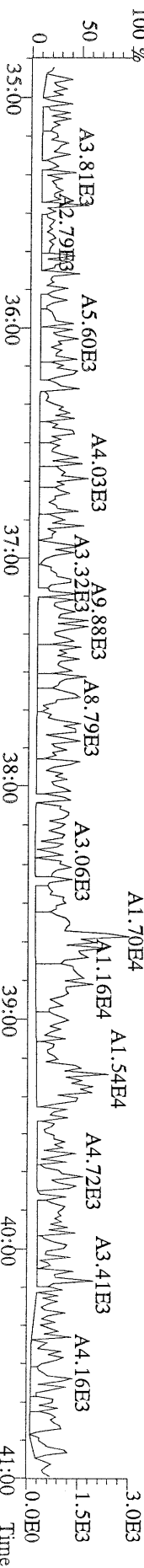
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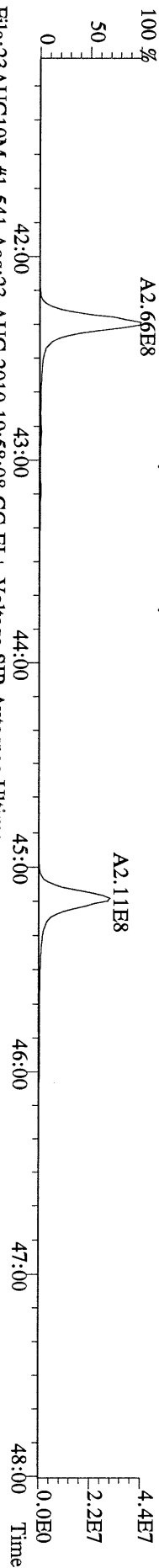
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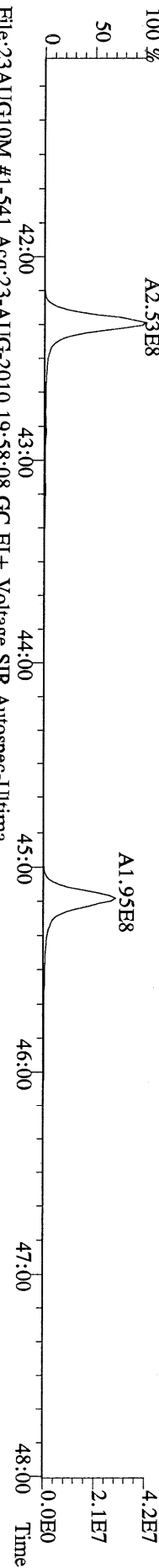
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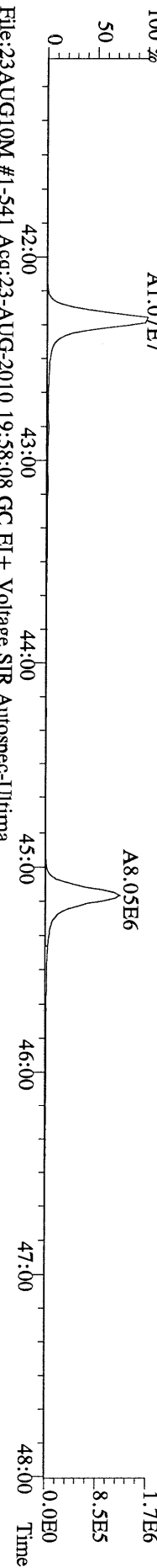
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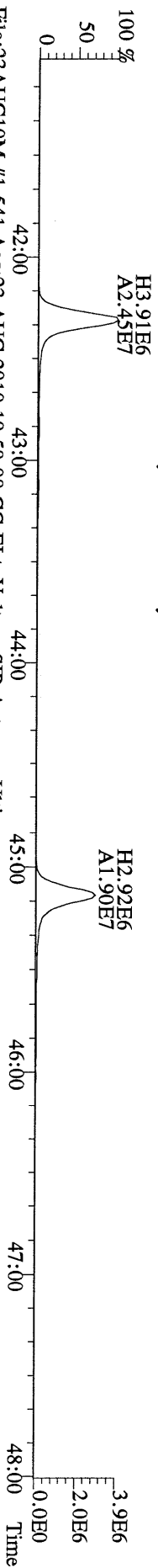
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409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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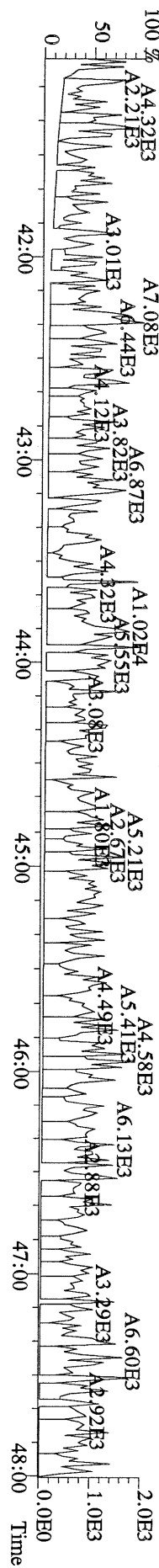
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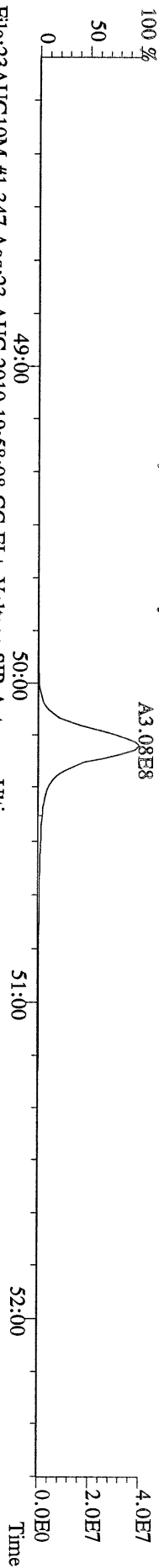
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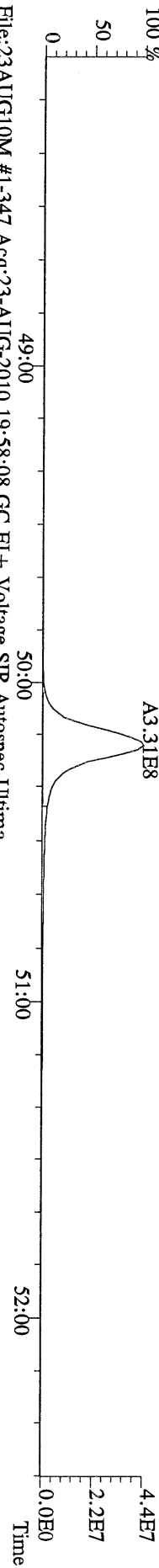
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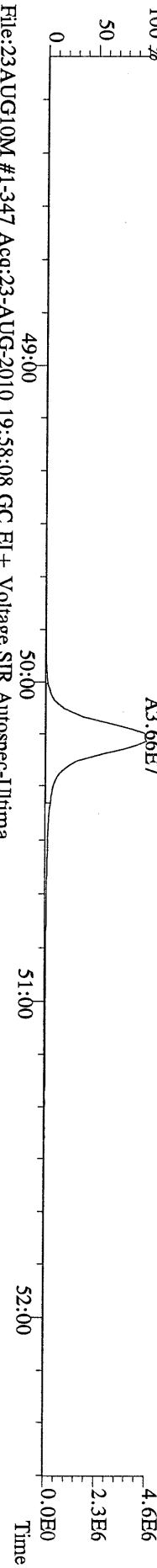
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441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



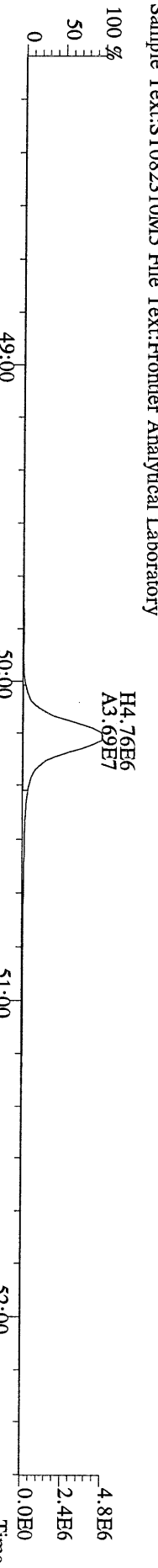
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Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
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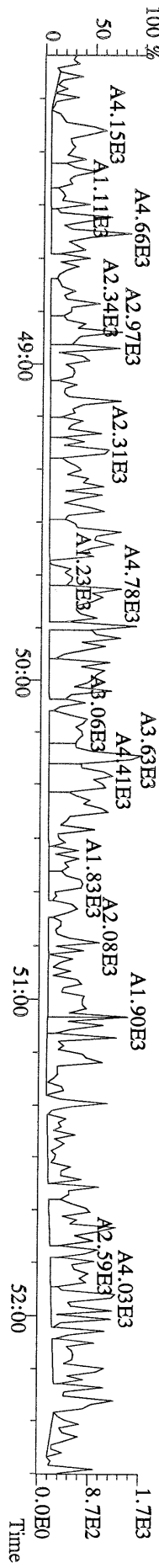
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100 %

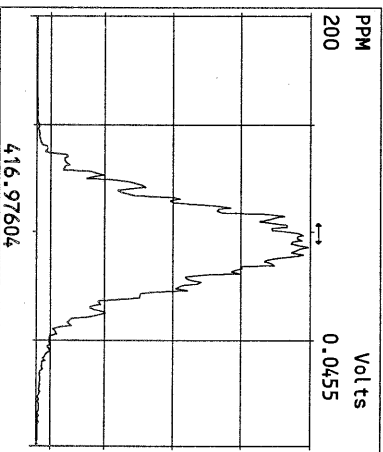
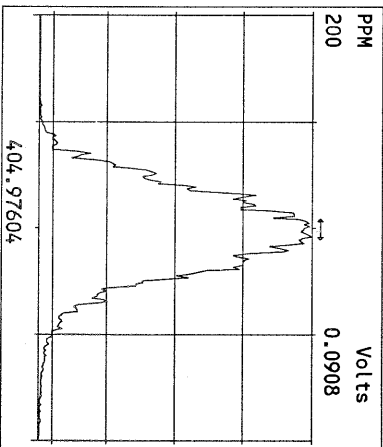
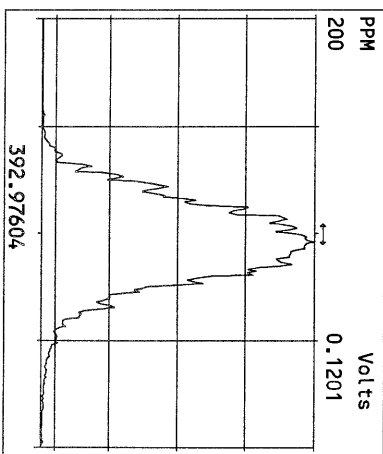
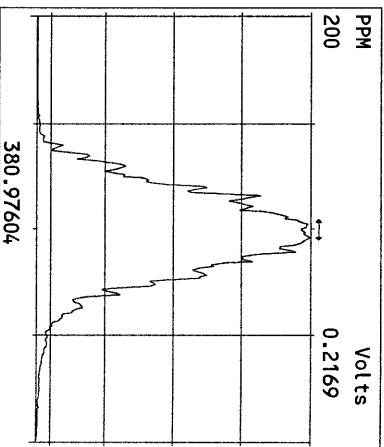
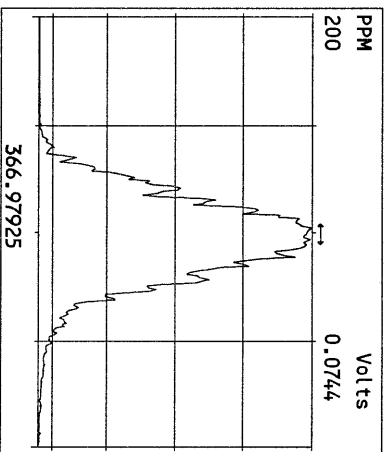
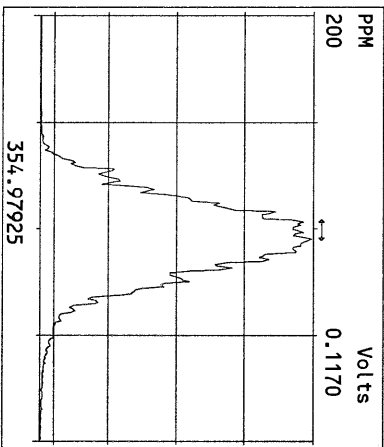
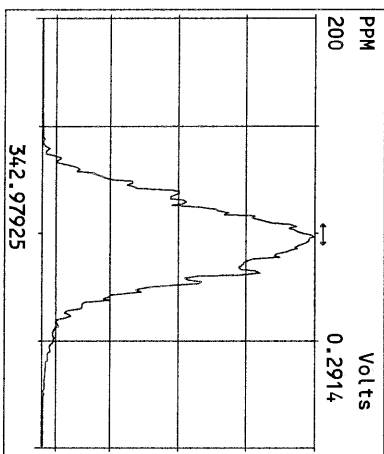
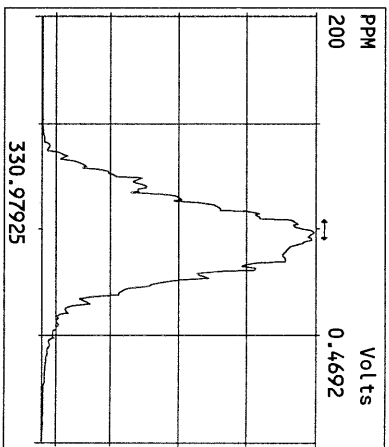
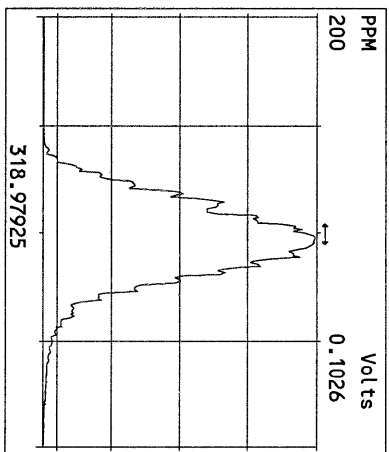
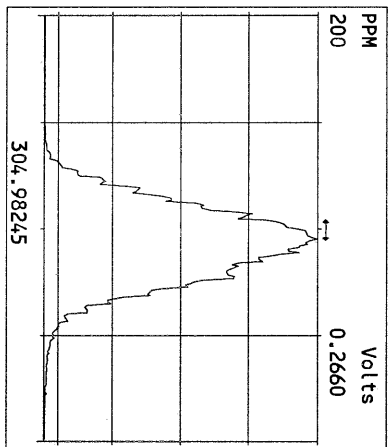
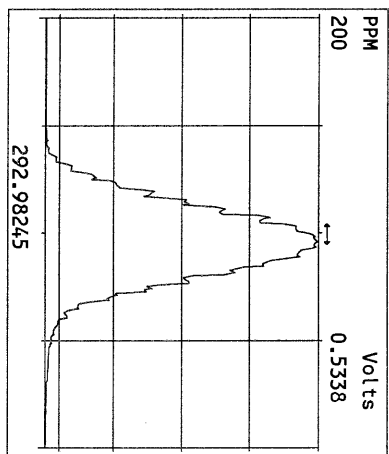


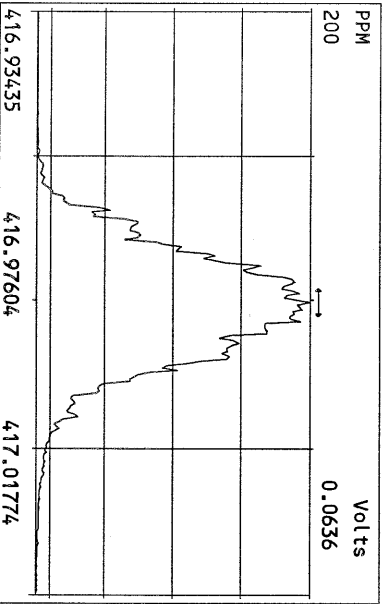
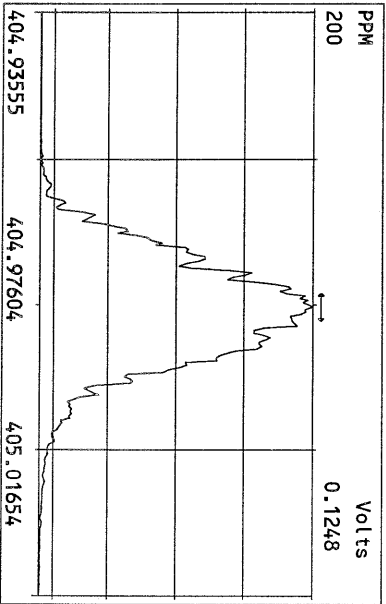
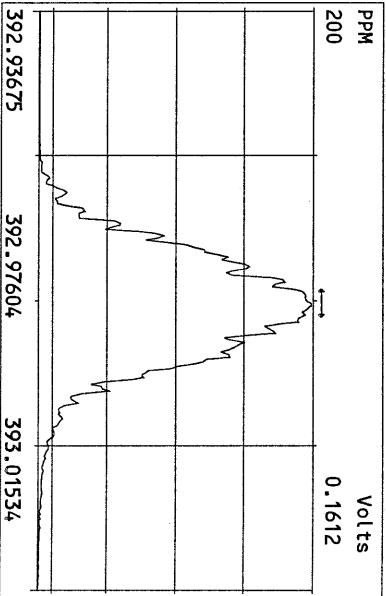
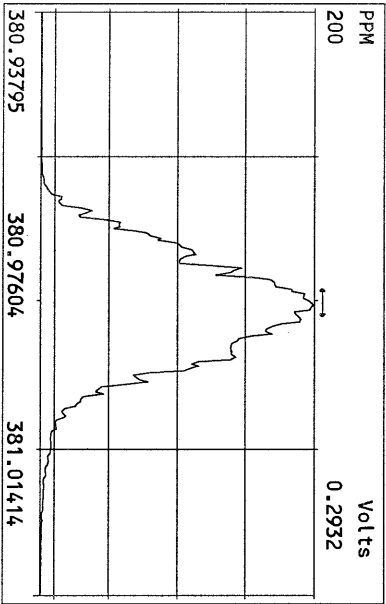
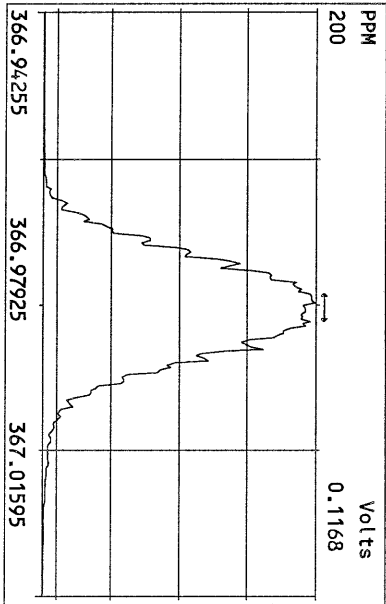
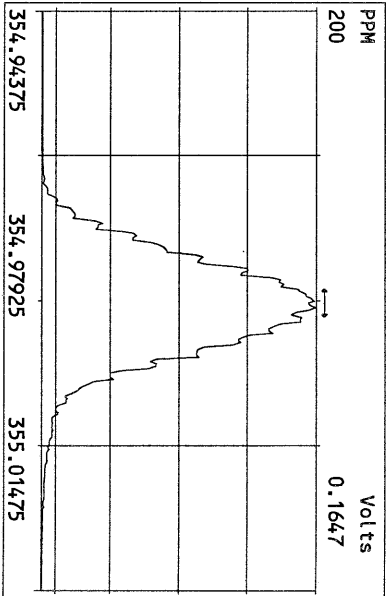
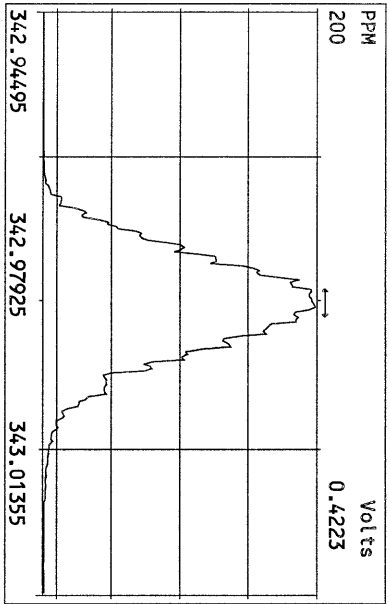
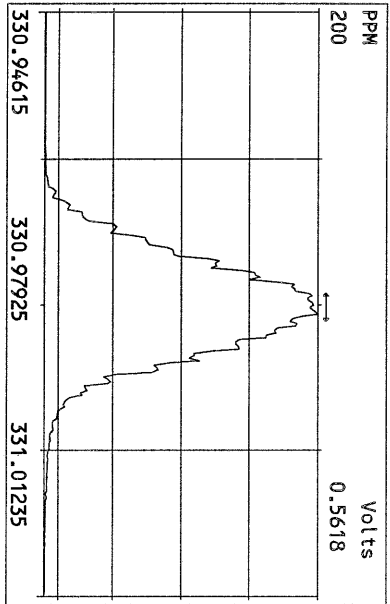
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory

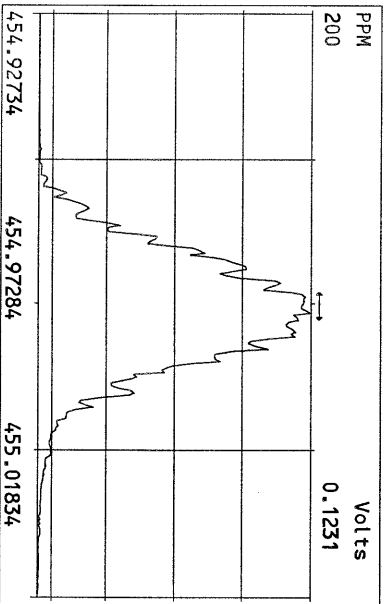
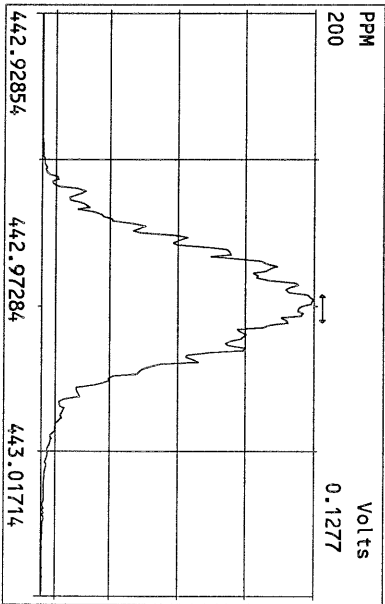
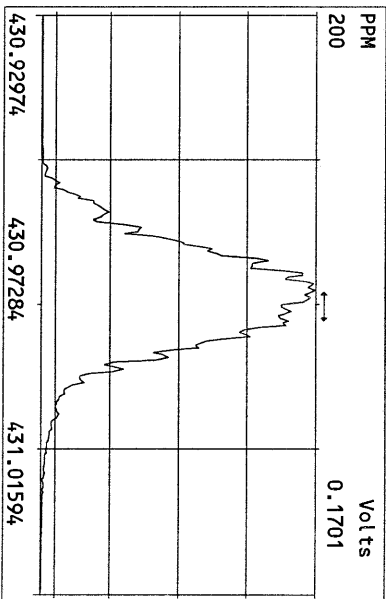
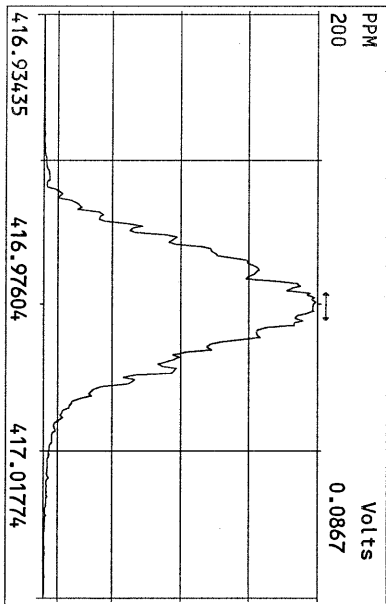
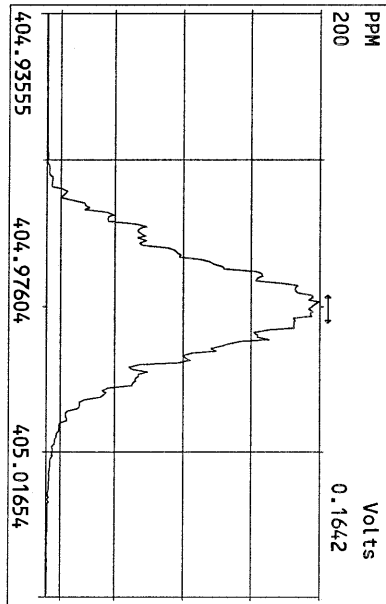
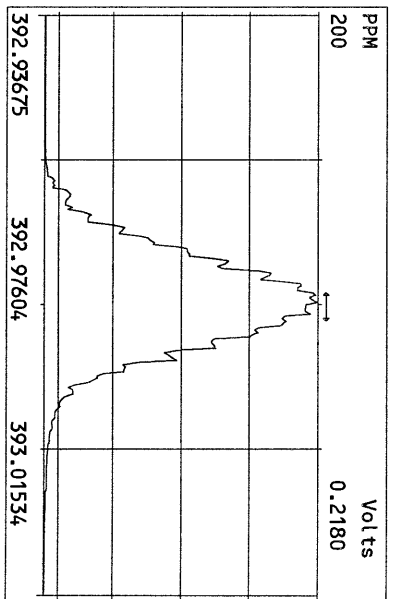
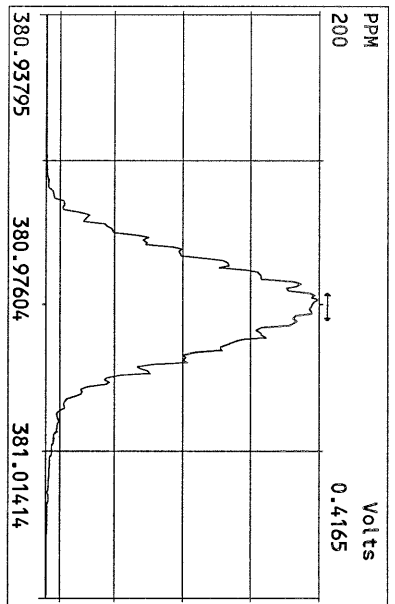
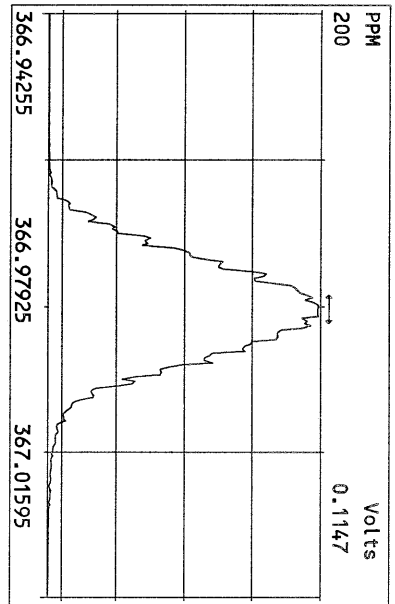


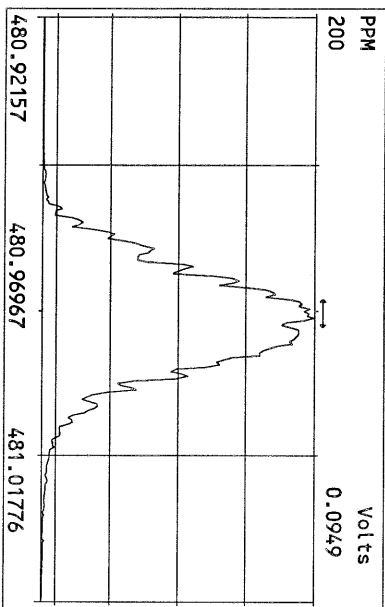
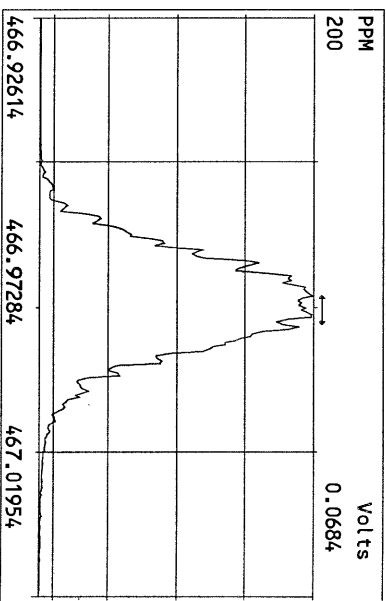
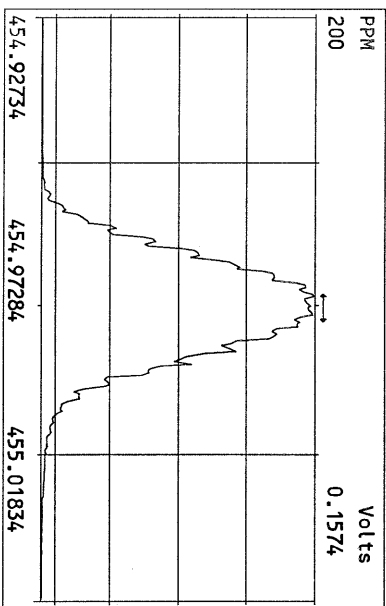
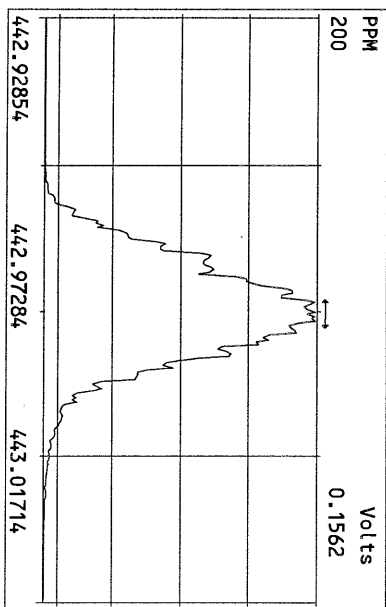
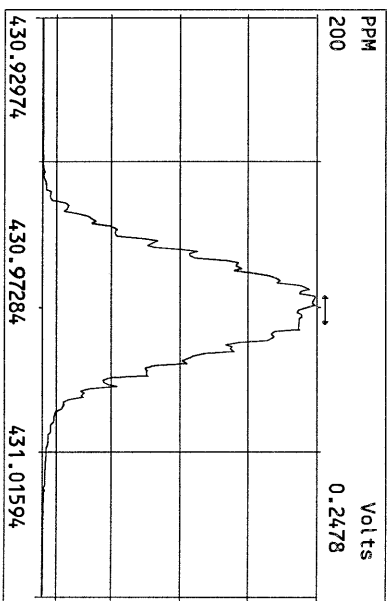
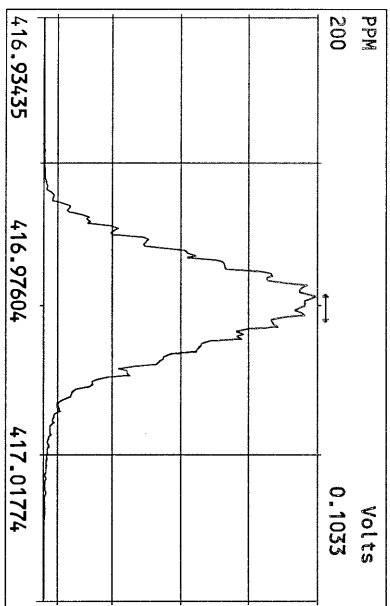
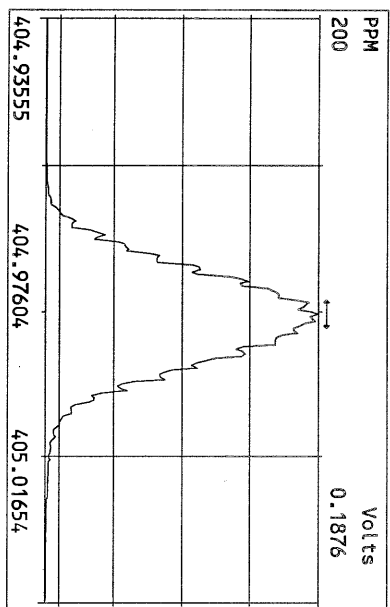
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory

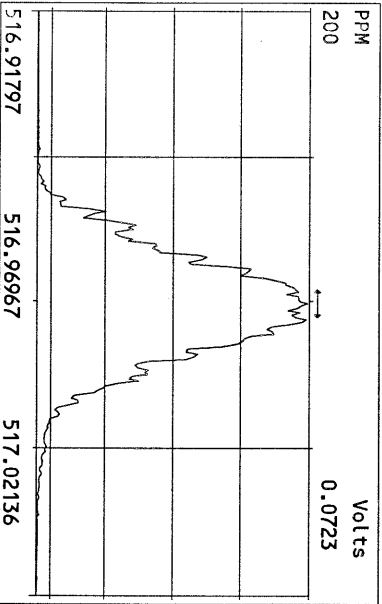
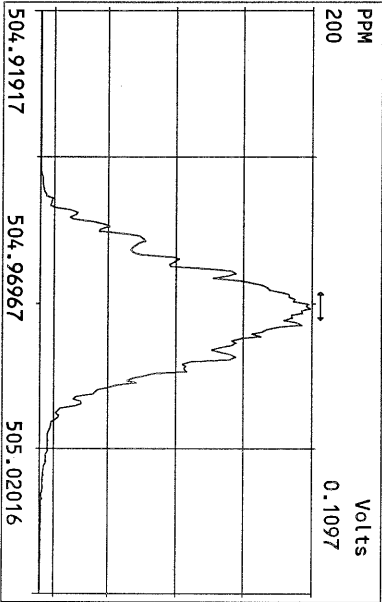
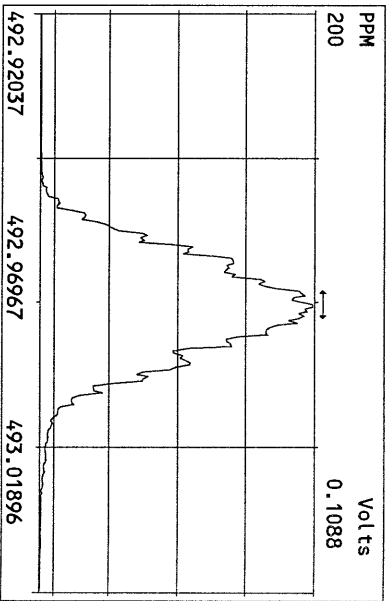
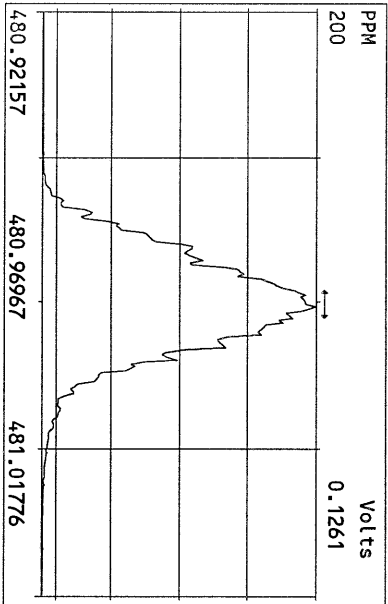
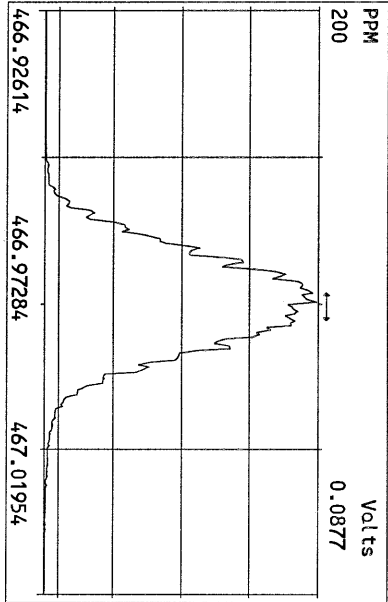
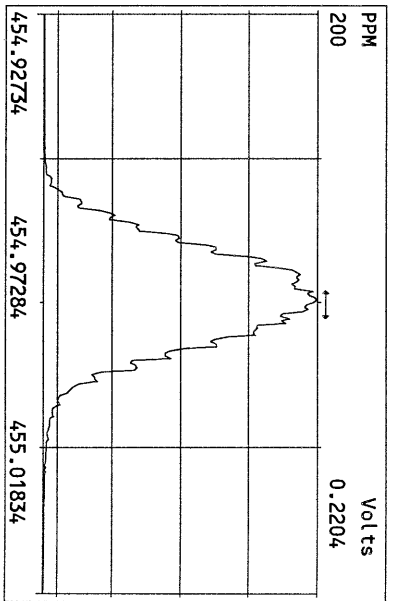
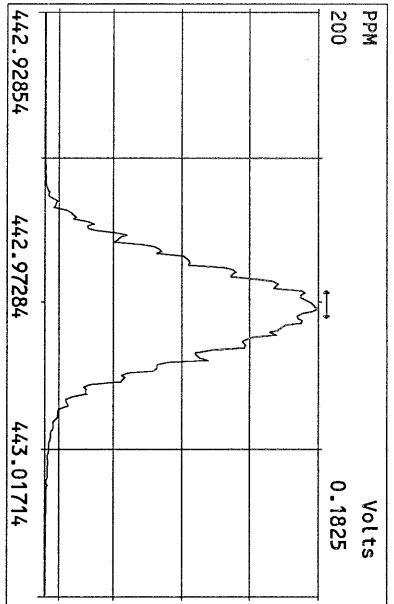
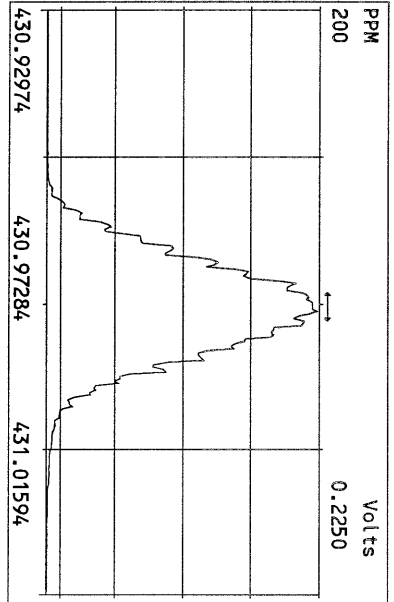












USEPA - ITD

FORM 4A

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/11

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 01FEB11M Sam:1


Analysis Date: 1-FEB-11 14:58:21

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.83	0.65-0.89	y	11.5	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.47	1.32-1.78	y	51.1	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.9	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	50.7	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	53.2	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.92	0.88-1.20	y	45.4	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.87	0.76-1.02	y	102	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.71	0.65-0.89	y	8.55	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	48.4	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	46.1	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	54.5	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	55.3	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	54.2	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.22	1.05-1.43	y	54.4	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	53.1	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.09	0.88-1.20	y	53.8	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.92	0.76-1.02	y	101	63.0 - 159 ✓

(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.

Analyst: 

Date: 2/2/11

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 8/23/10
RT Window Data Filename: 01FEB11M Sam:1 Analysis Date: 1-FEB-11 Time: 14:58:21
DB-5 IS Data Filename: 01FEB11M Sam:1 Analysis Date: 1-FEB-11 Time: 14:58:21
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:18 ✓	1,3,6,8-TCDF (F)	22:57 ✓
1,2,8,9-TCDD (L)	28:15 ✓	1,2,8,9-TCDF (L)	28:29 ✓
1,2,4,7,9-PeCDD (F)	30:10 ✓	1,3,4,6,8-PeCDF (F)	28:19 ✓
1,2,3,8,9-PeCDD (L)	33:44 ✓	1,2,3,8,9-PeCDF (L)	34:09 ✓
1,2,4,6,7,9-HxCDD (F)	36:03 ✓	1,2,3,4,6,8-HxCDF (F)	35:11 ✓
1,2,3,7,8,9-HxCDD (L)	39:08 ✓	1,2,3,7,8,9-HxCDF (L)	39:44 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:45 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:14 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:09 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:05 ✓

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: 

Date: 

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 1-FEB-11 14:58:21

CS3 or VER Data Filename: 01FEB11M

Sam:1


NATIVE ANALYTES	RETENTION TIME		RRT	RRT	QC LIMITS (1)
	REFERENCE				
2,3,7,8-TCDD	13C-2,3,7,8-TCDD		1.001		0.999-1.002 ✓
2,3,7,8-TCDF	13C-2,3,7,8-TCDF		1.001		0.999-1.003 ✓
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD		1.000		0.999-1.002 ✓
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF		1.000		0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF		1.001		0.999-1.002 ✓
LABELED COMPOUNDS					
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD		1.023		0.989-1.052 ✓
13C-2,3,7,8-TCDD			1.022		0.976-1.043 ✓
13C-2,3,7,8-TCDF			0.994		0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD			1.241		1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF			1.175		0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF			1.225		0.923-1.303 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____



Date: _____



FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/11


Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 1-FEB-11 14:58:21 CS3 or VER Data Filename: 01FEB11M Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	RRT	QC LIMITS (1)
	REFERENCE				
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD		1.001		0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.000		0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.012		1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF		1.001		0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.001		0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.001		0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001		0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD		1.000		0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF		1.001		0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF		1.000		0.999-1.001 ✓
OCDD	13C-OCDD		1.000		0.999-1.001 ✓
OCDF	13C-OCDF		1.001		0.999-1.001 ✓
LABELED COMPOUNDS					
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD		0.984		0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD			0.988		0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF			0.949		0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF			0.954		0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF			0.978		0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF			1.015		0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD			1.128		1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF			1.079		1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF			1.152		1.057-1.154 ✓
13C-OCDD			1.270		1.032-1.311 ✓
13C-OCDF			1.280		1.000-1.311 ✓


(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 2/2/11

Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 102

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		DL	118
					Conc	Qual	Fac	Noise-1			Noise-2
2,3,7,8-TCDD	3.64e+06	0.83 y	27:19	1.11	11.5	2.50	-	-	*	
1,2,3,7,8-PeCDD	1.54e+07	1.47 y	33:09	1.10	51.1	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.38e+07	1.28 y	38:32	1.37	50.9	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.31e+07	1.22 y	38:41	1.37	50.7	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.40e+07	1.21 y	39:08	1.36	53.2	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.00e+07	0.92 y	44:09	1.45	45.4	2.50	-	-	*	
OCDD	1.45e+07	0.87 y	49:42	1.43	102	2.50	-	-	*	
2,3,7,8-TCDF	5.95e+06	0.71 y	26:34	1.50	8.55	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.97e+07	1.60 y	31:24	0.94	48.4	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.81e+07	1.60 y	32:45	0.94	46.1	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.62e+07	1.25 y	37:08	0.93	54.5	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.98e+07	1.25 y	37:21	0.82	55.3	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.68e+07	1.24 y	38:17	0.92	54.2	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.80e+07	1.22 y	39:44	1.00	54.4	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.32e+07	1.07 y	42:14	1.39	53.1	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	9.35e+06	1.09 y	45:05	1.36	53.8	2.50	-	-	*	
OCDF	1.43e+07	0.92 y	50:05	0.79	101	2.50	-	-	*	
										Rec
13C-2,3,7,8-TCDD	2.86e+07	0.75 y	27:17	1.02	92.2					92.2
13C-1,2,3,7,8-PeCDD	2.74e+07	1.71 y	33:08	0.84	107					107
13C-1,2,3,4,7,8-HxCDD	1.98e+07	1.23 y	38:30	1.07	100					100
13C-1,2,3,6,7,8-HxCDD	1.89e+07	1.23 y	38:40	1.01	101					101
13C-1,2,3,4,6,7,8-HpCDD	1.52e+07	0.99 y	44:08	0.86	96.9					96.9
13C-OCDD	1.97e+07	0.97 y	49:41	0.55	197					98.4
13C-2,3,7,8-TCDF	4.64e+07	0.88 y	26:33	0.99	90.0					90.0
13C-1,2,3,7,8-PeCDF	4.32e+07	1.70 y	31:24	0.84	99.5					99.5
13C-2,3,4,7,8-PeCDF	4.18e+07	1.69 y	32:43	0.81	99.4					99.4
13C-1,2,3,4,7,8-HxCDF	3.20e+07	0.48 y	37:07	1.85	94.1					94.1
13C-1,2,3,6,7,8-HxCDF	4.37e+07	0.47 y	37:19	2.54	93.8					93.8
13C-2,3,4,6,7,8-HxCDF	3.37e+07	0.45 y	38:16	2.01	91.0					91.0
13C-1,2,3,7,8,9-HxCDF	3.32e+07	0.49 y	39:42	2.03	89.1					89.1
13C-1,2,3,4,6,7,8-HpCDF	1.79e+07	0.49 y	42:13	1.11	87.9					87.9
13C-1,2,3,4,7,8,9-HpCDF	1.28e+07	0.50 y	45:04	0.80	86.9					86.9
13C-OCDF	3.61e+07	0.90 y	50:04	1.08	181					90.7
37Cl-2,3,7,8-TCDD	2.06e+06		27:19	0.69	9.95					99.5
13C-1,2,3,4-TCDD	3.03e+07	0.76 y	26:43	-	67.4					
13C-1,2,3,4-TCDF	5.18e+07	0.88 y	25:27	-	71.6					
13C-1,2,3,7,8,9-HxCDD	1.84e+07	1.21 y	39:07	-	66.6					
Total Tetra-Dioxins	1.92e+07		23:43	1.11	60.4	2.50	-	-	*	32
Total Penta-Dioxins	3.41e+07		30:10	1.10	113	2.50	-	-	*	13
Total Hexa-Dioxins	4.80e+07		36:03	1.37	182	2.50	-	-	*	23
Total Hepta-Dioxins	2.25e+07		42:45	1.45	102	2.50	-	-	*	40
Total Tetra-Furans	2.95e+07		22:57	1.50	42.3	2.50	-	-	*	28
1st Fn. Tot Penta-Furans	2.34e+07		28:19	0.94	58.8	2.50	-	-	*	PeCDF 2
Total Penta-Furans	5.50e+07		30:05	0.94	138	2.50	-	-	*	197 19
Total Hexa-Furans	8.33e+07		35:11	0.91	257	2.50	-	-	*	21
Total Hepta-Furans	2.37e+07		42:14	1.38	112	2.50	-	-	*	32

Analyst: 

Date: 

Frontier Analytical Laboratory - Acquisition Log

Run Name:01FEB11M

Instrument: FAL3

GC: DB5

Experiment:OCDD

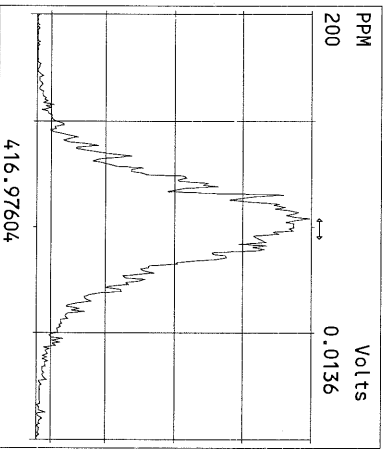
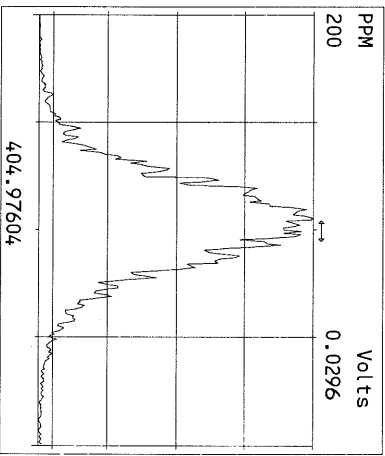
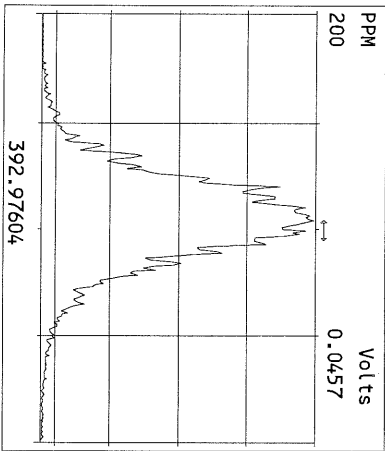
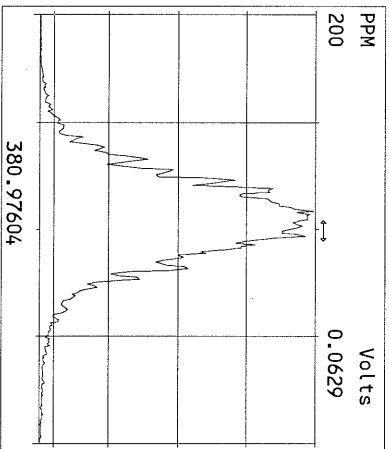
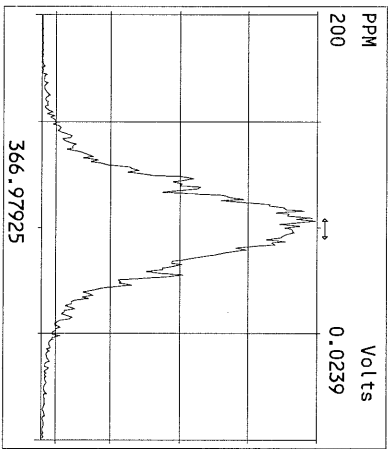
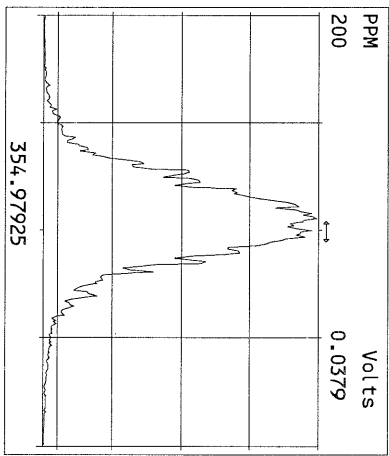
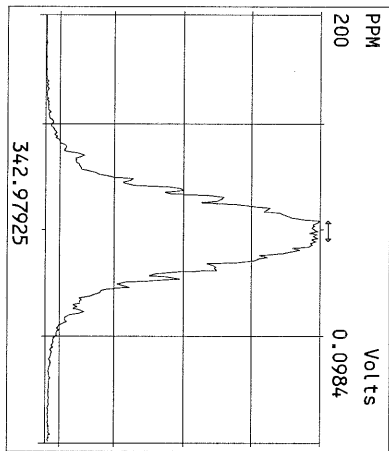
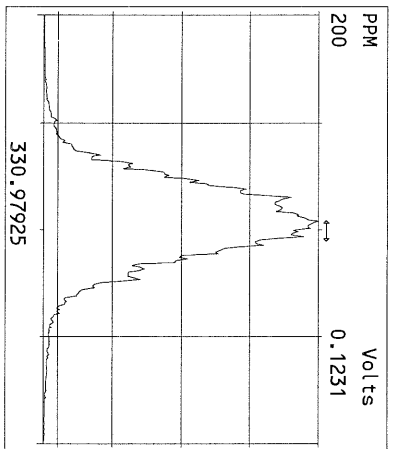
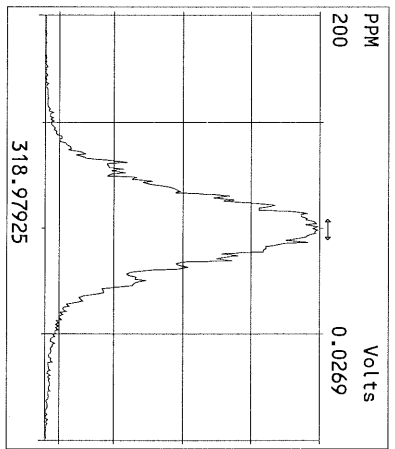
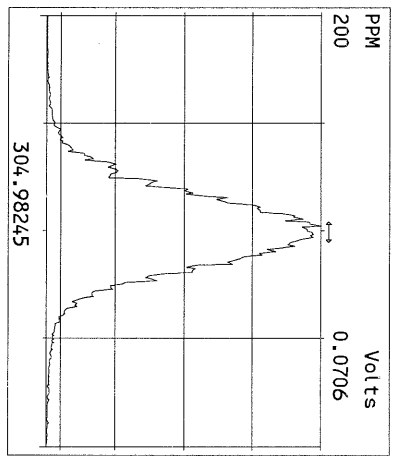
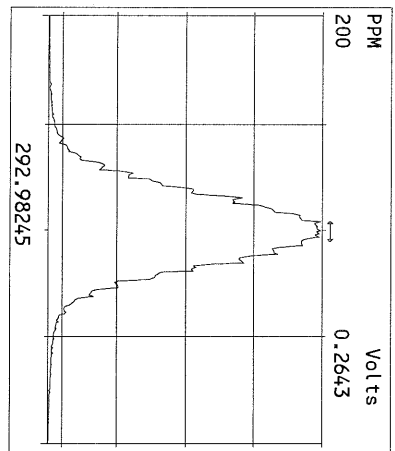
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01FEB11M 3	2207-001-0001-MB	Method Blank	1-FEB-11 16:49:06	ST020111M1	ST020111M2	TC
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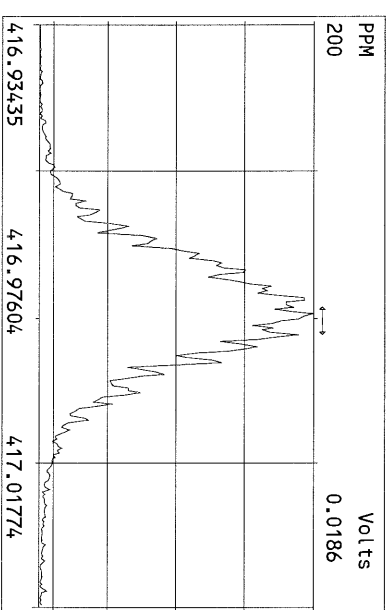
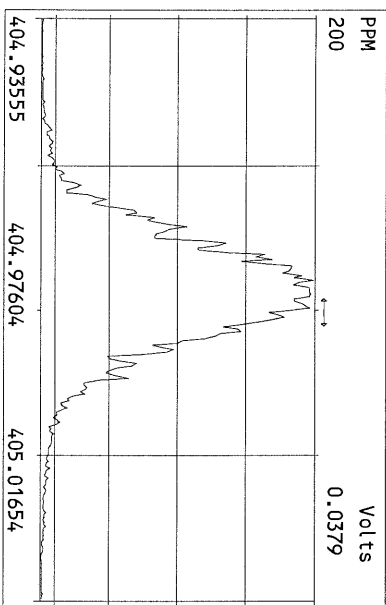
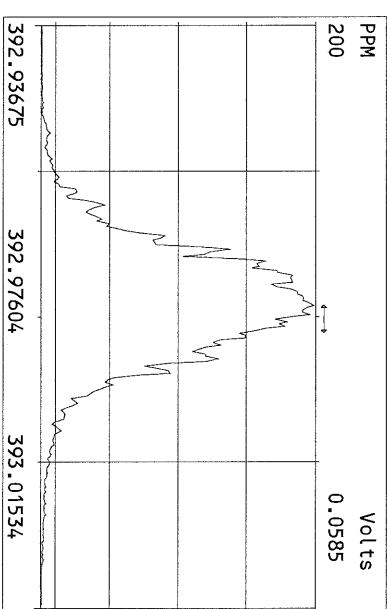
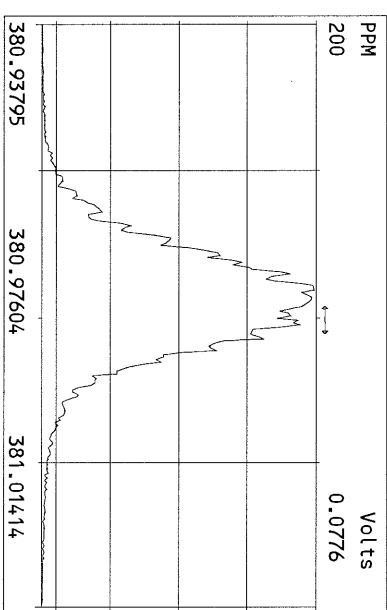
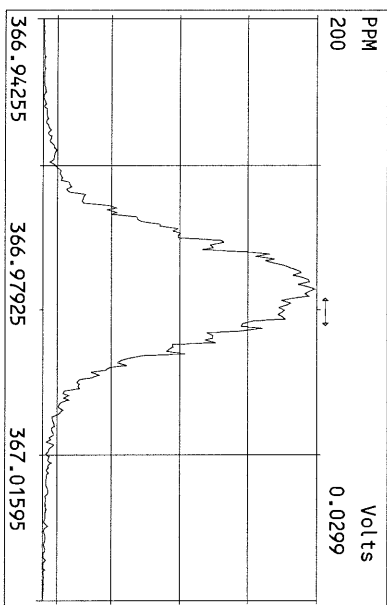
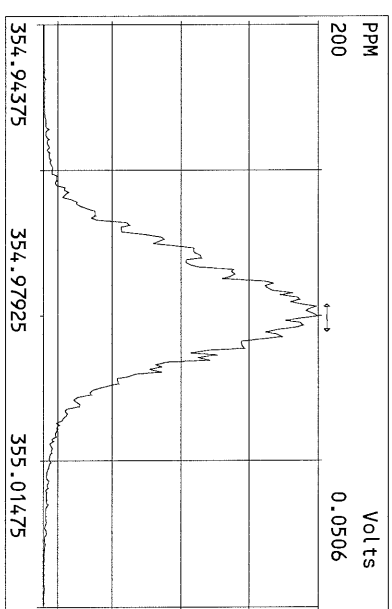
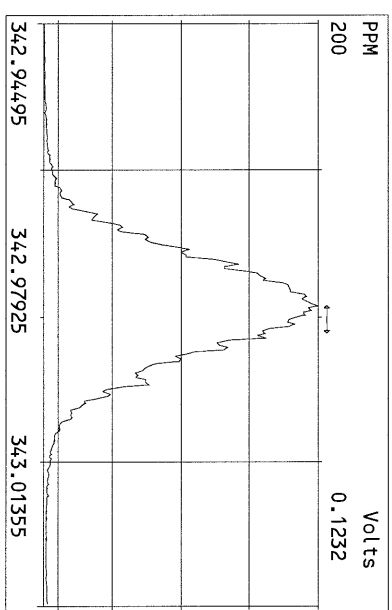
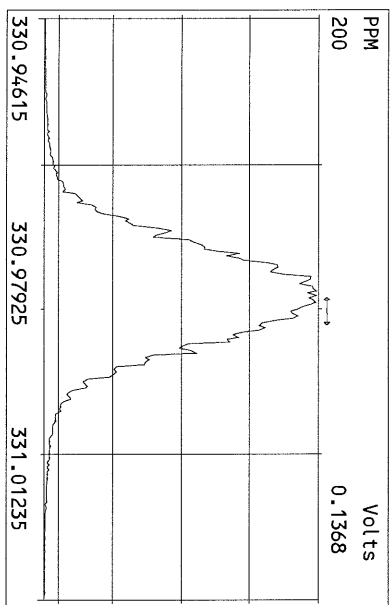
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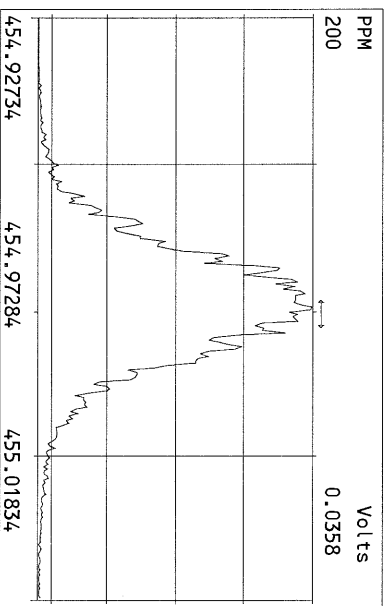
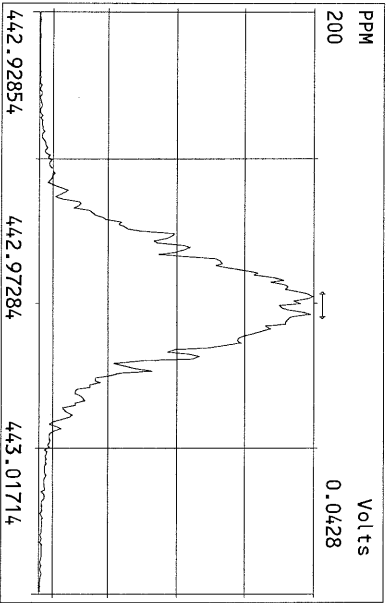
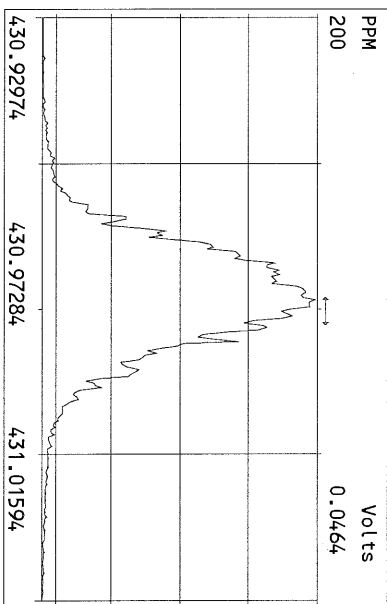
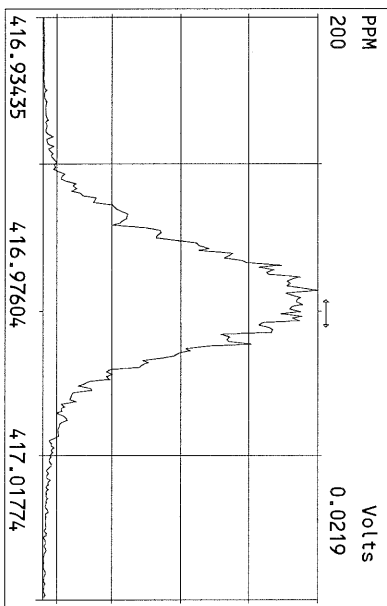
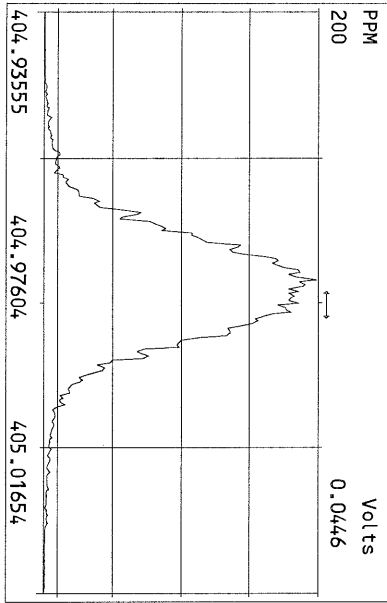
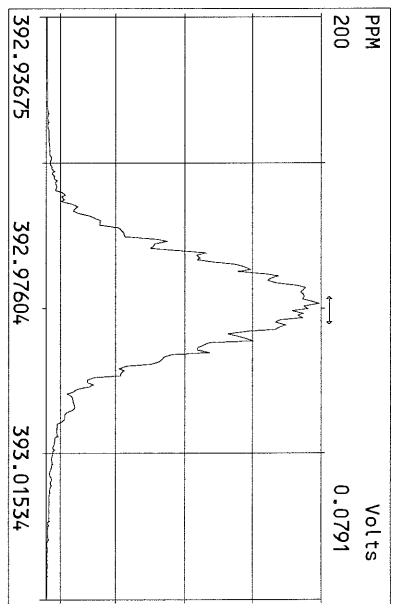
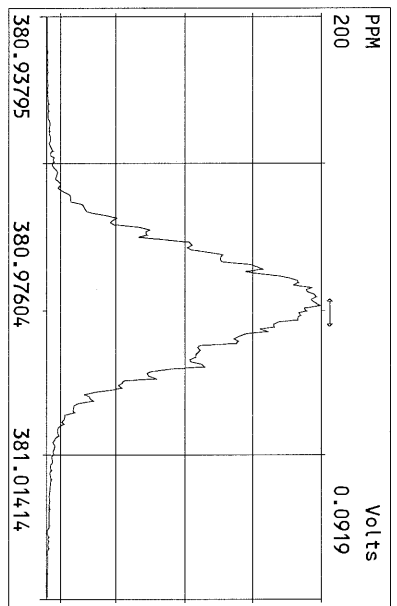
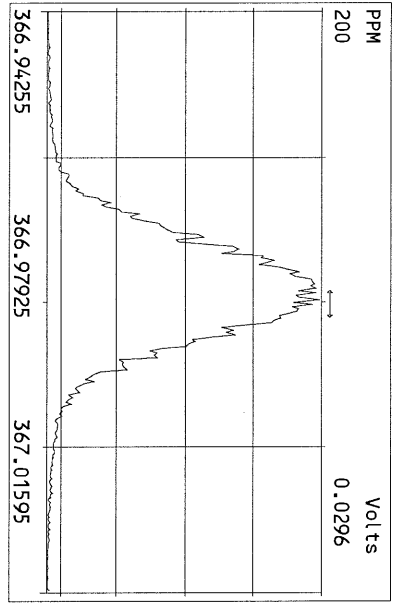
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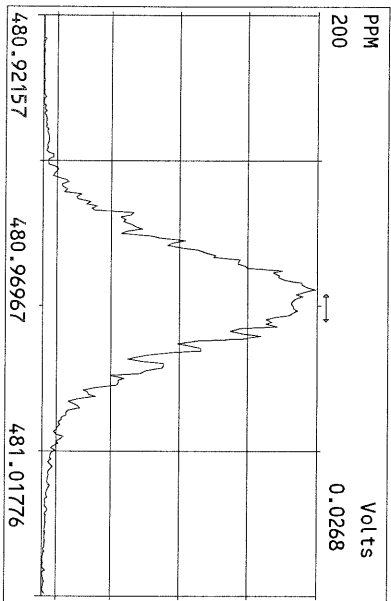
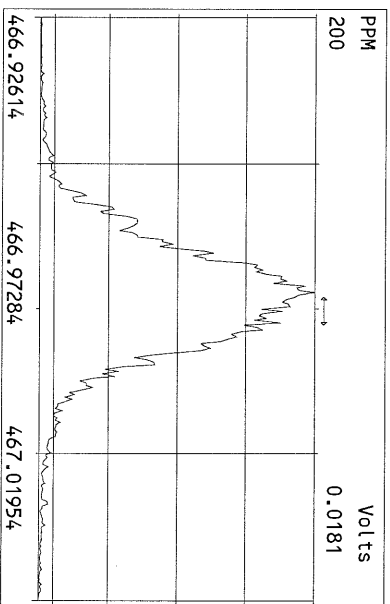
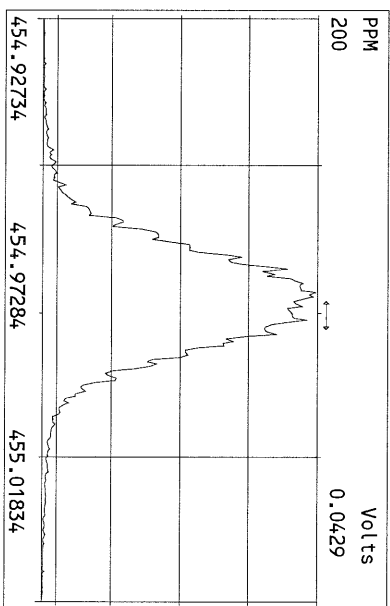
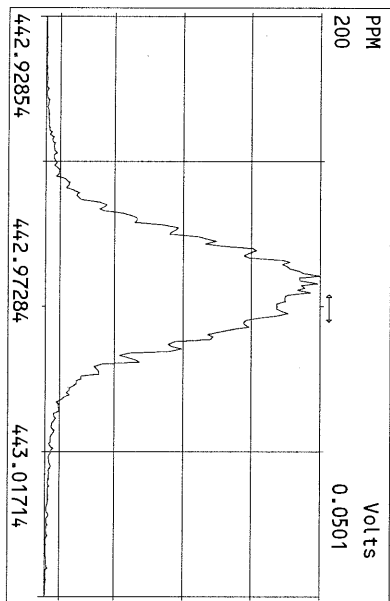
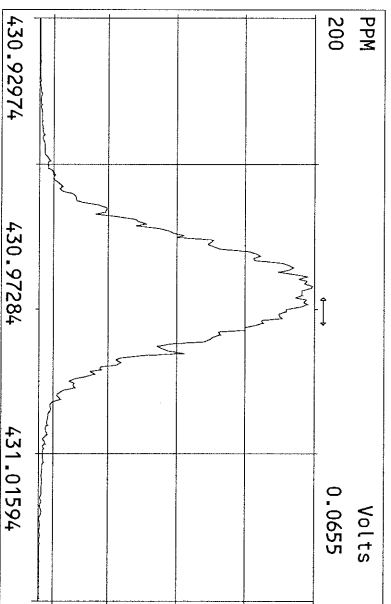
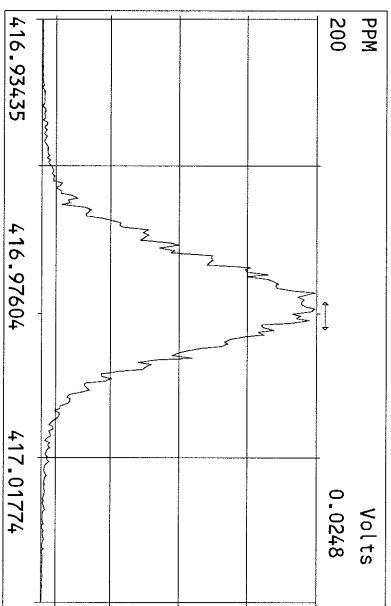
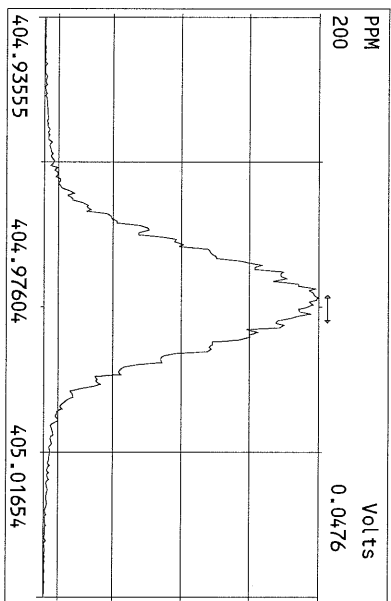
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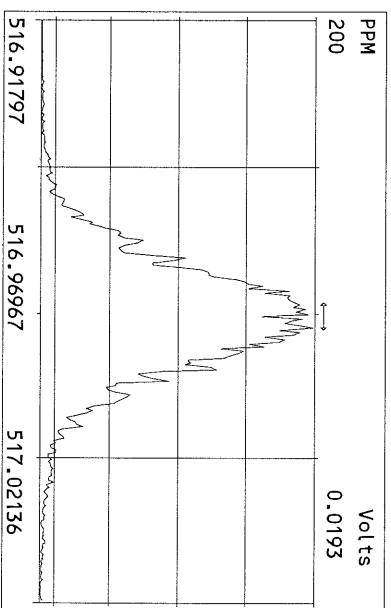
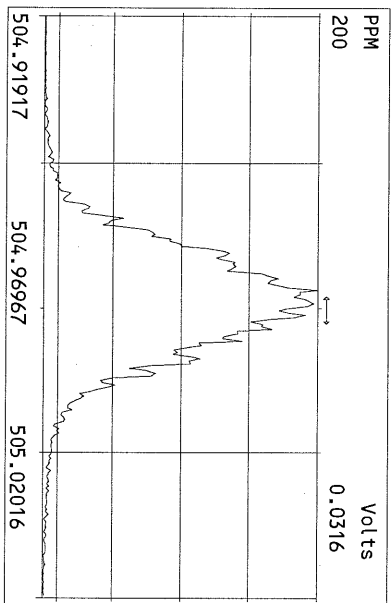
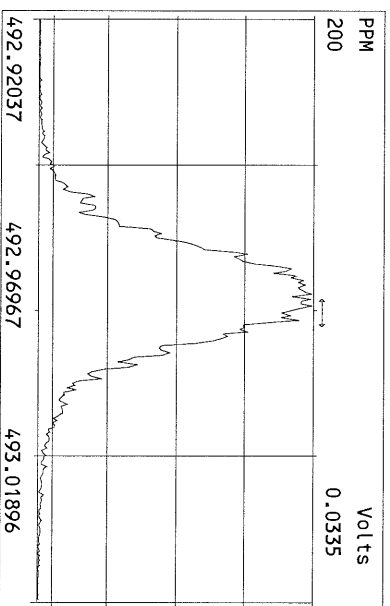
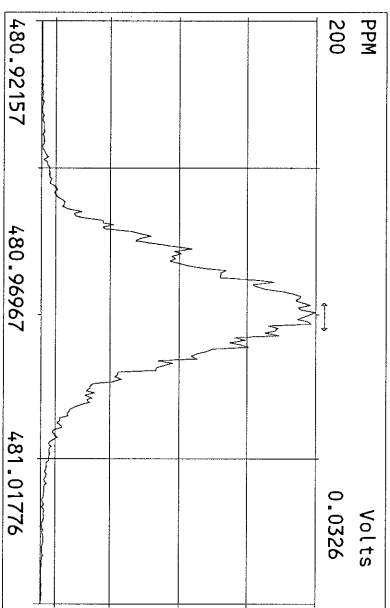
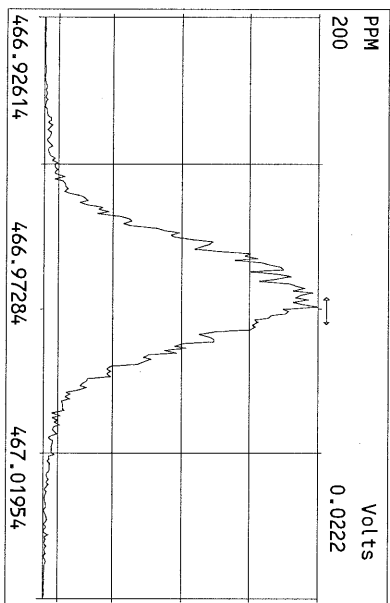
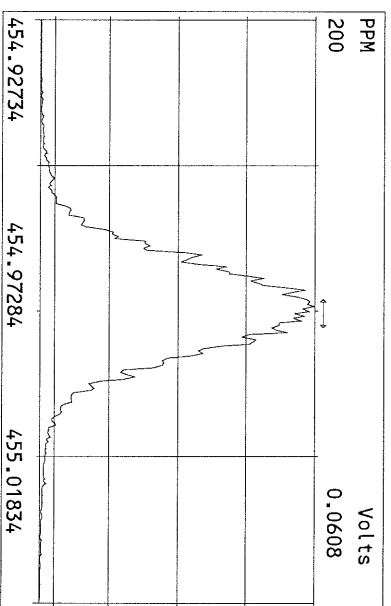
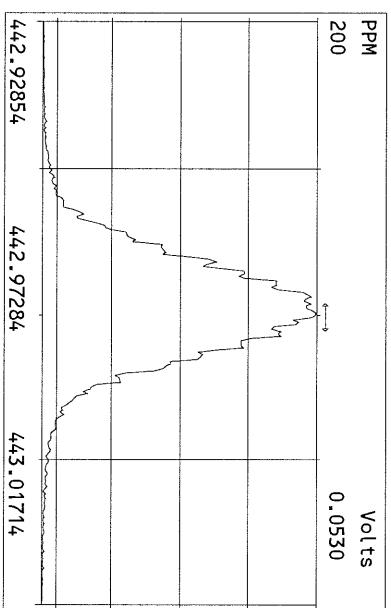
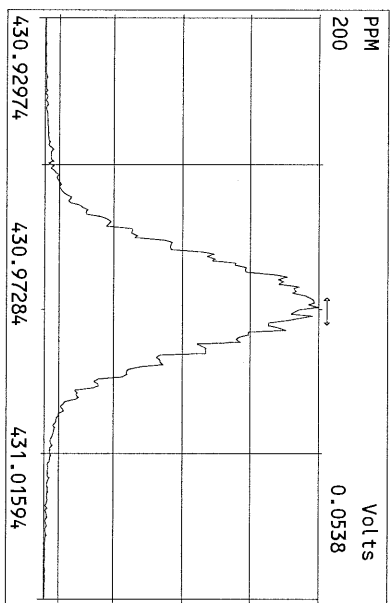




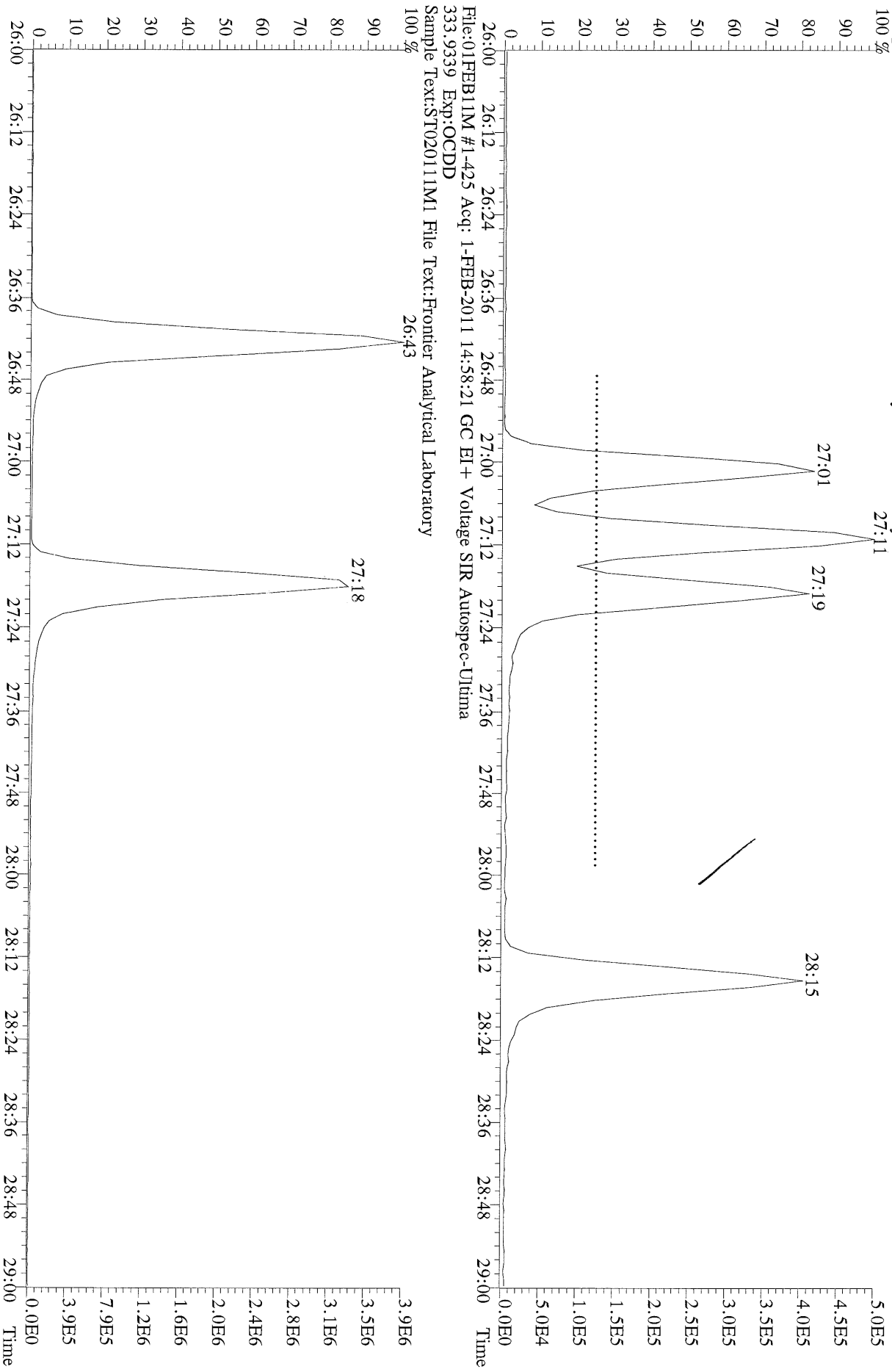


Peak Locate Examination: 1-FEB-2011:14:57 File:01FEB11M
Experiment:0CDD Function:4 Reference:PFK

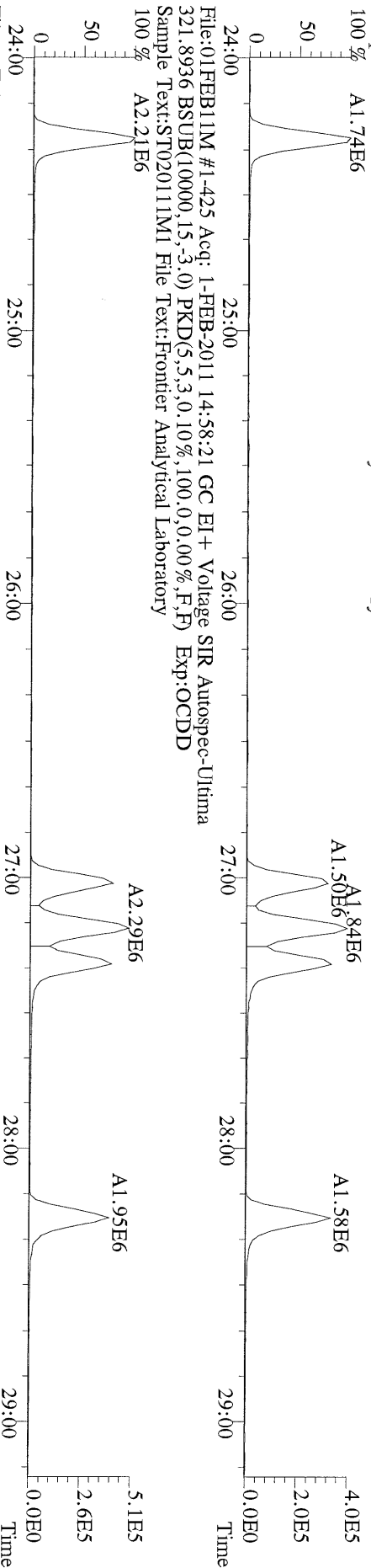




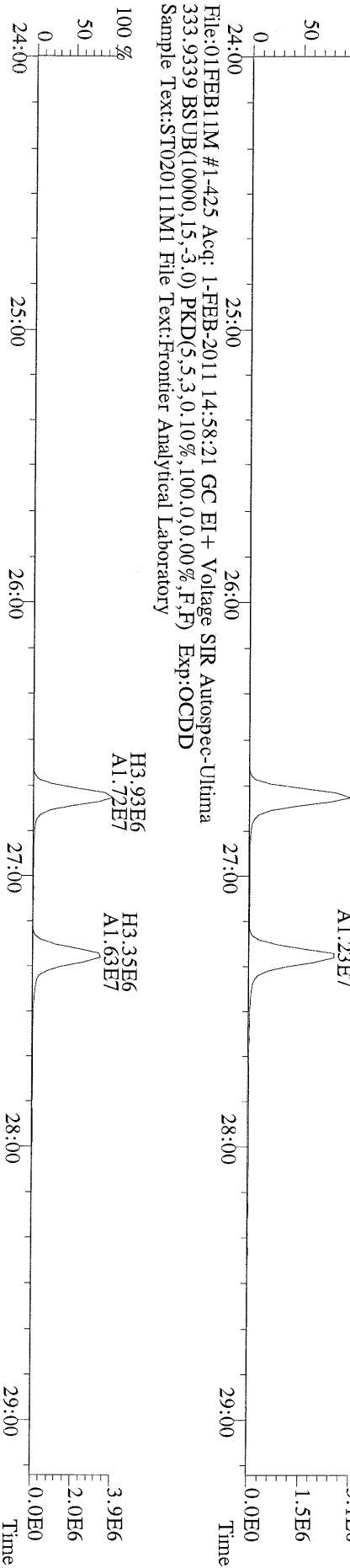
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321.8936 Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100%



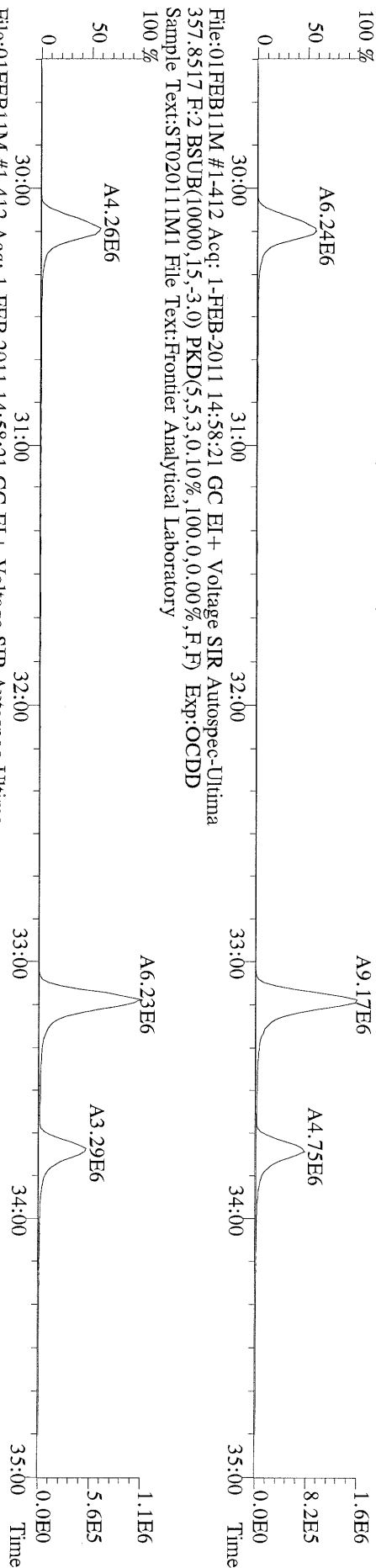
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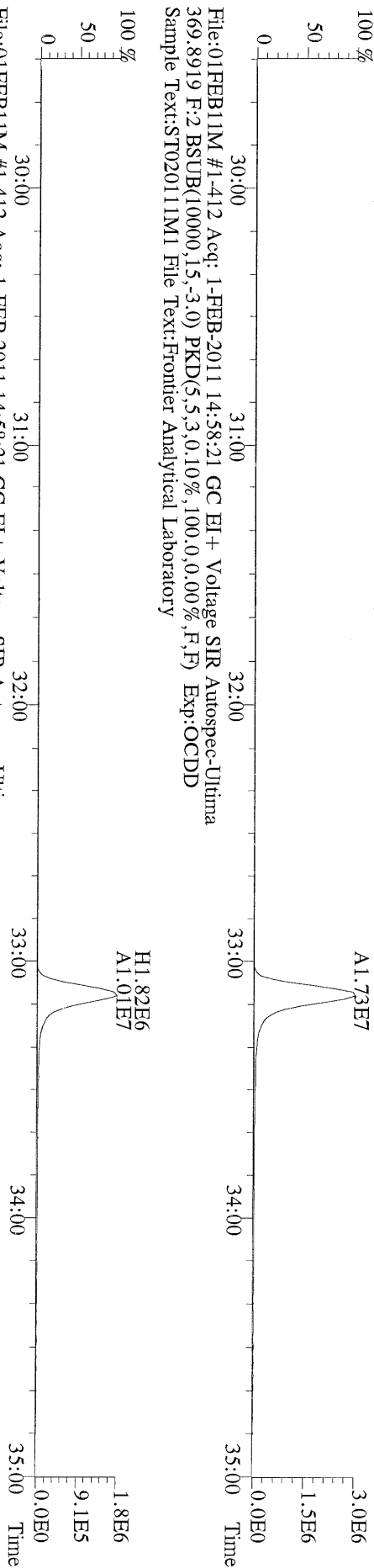
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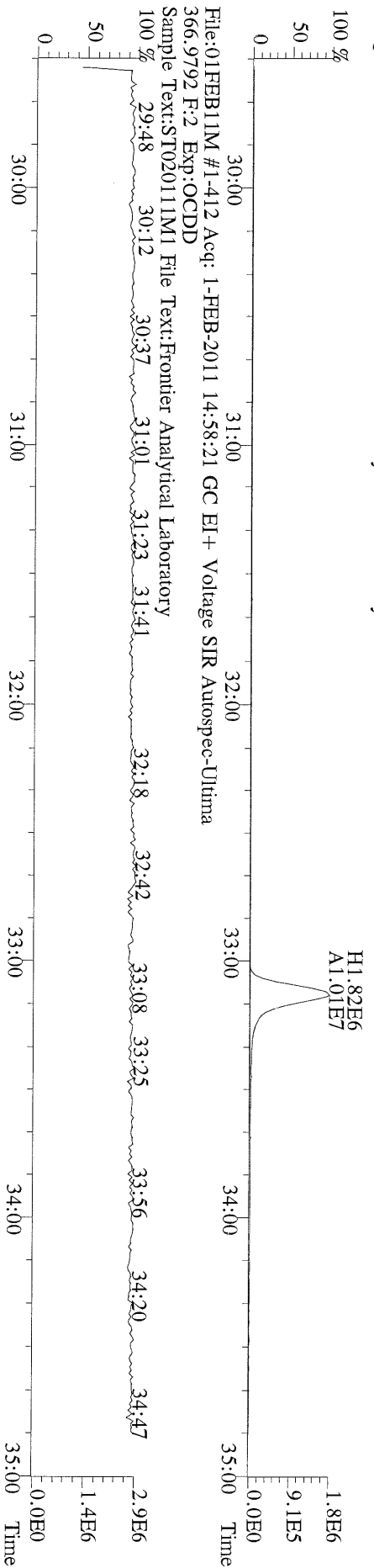
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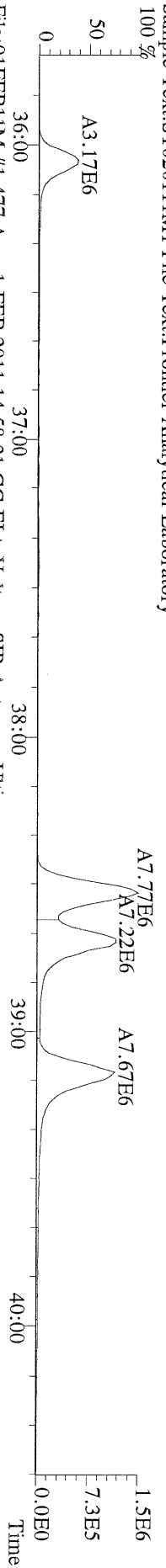
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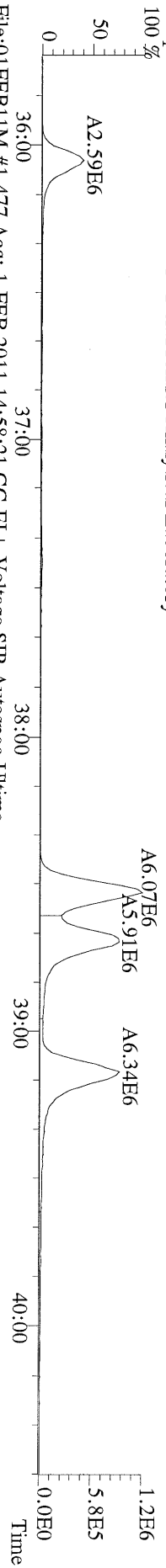
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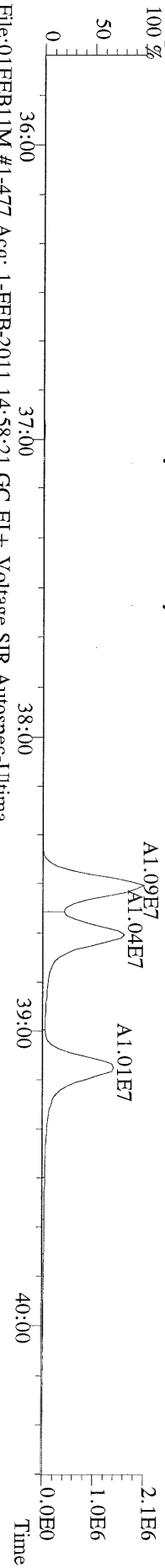
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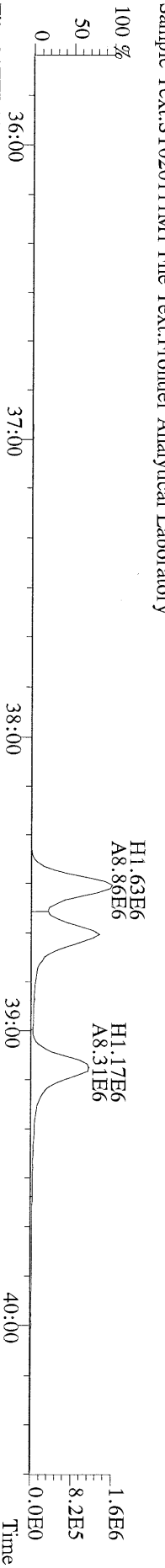
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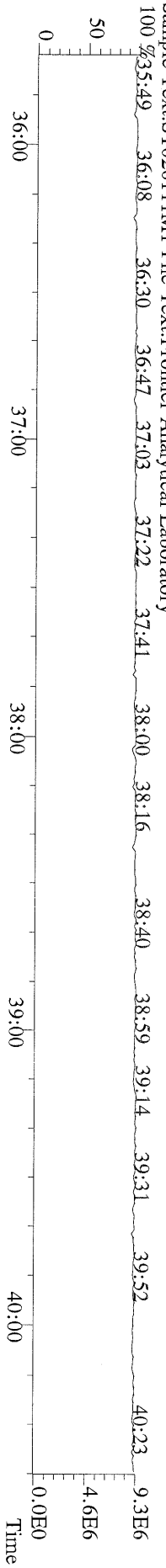
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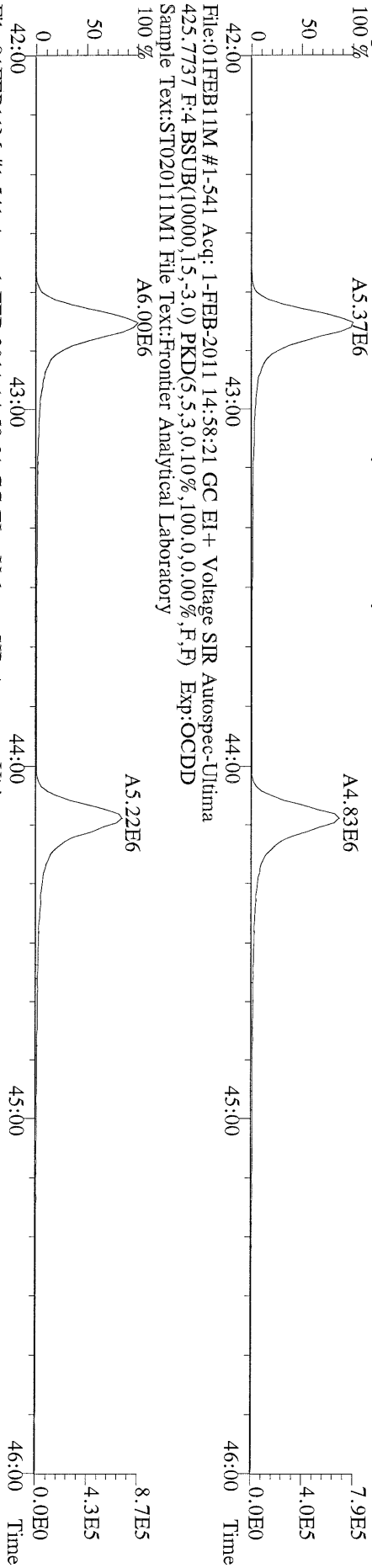
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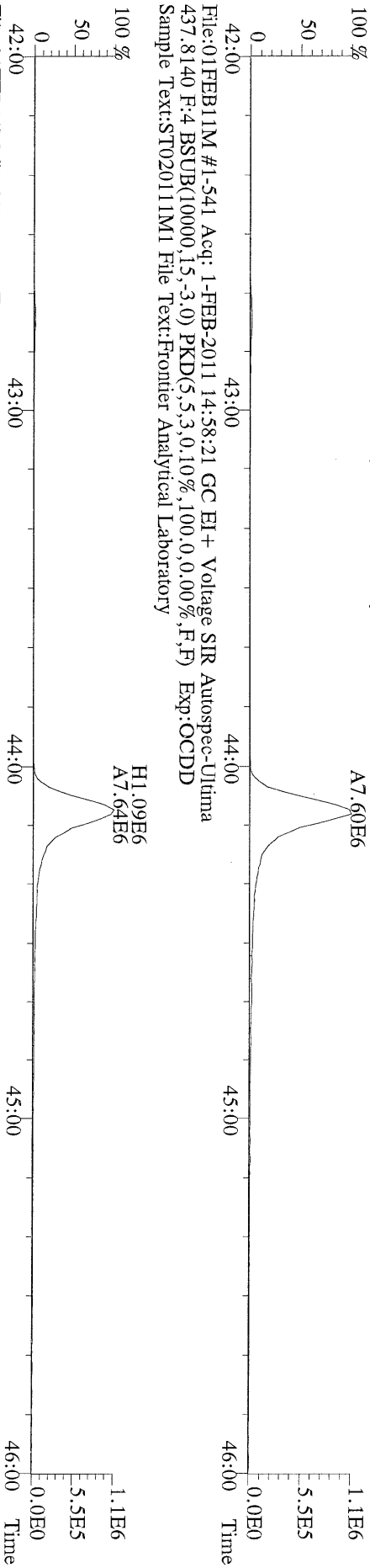
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Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



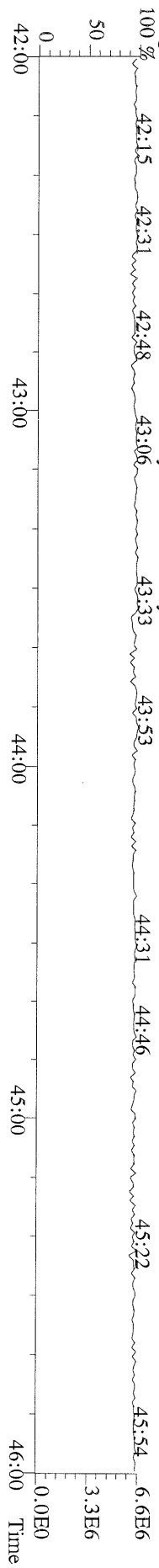
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423.7767 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD
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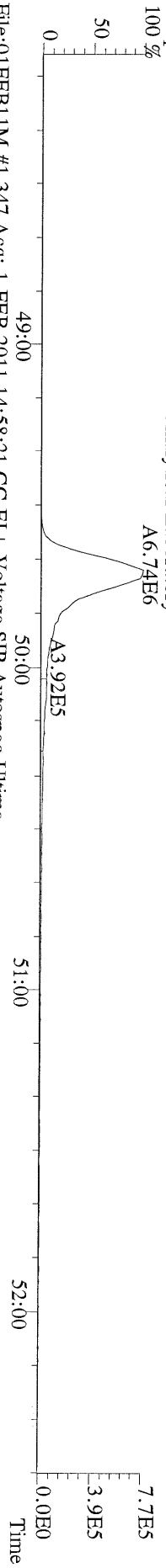
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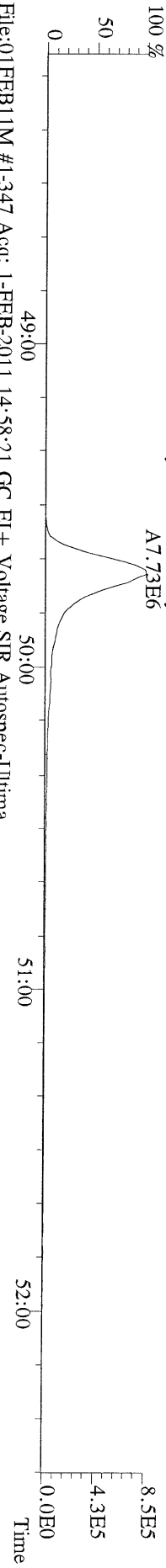
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430.9728 F:4 Exp:OCDD
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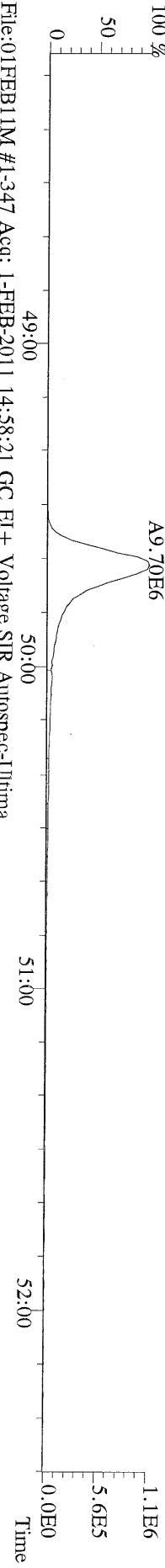
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Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100 %



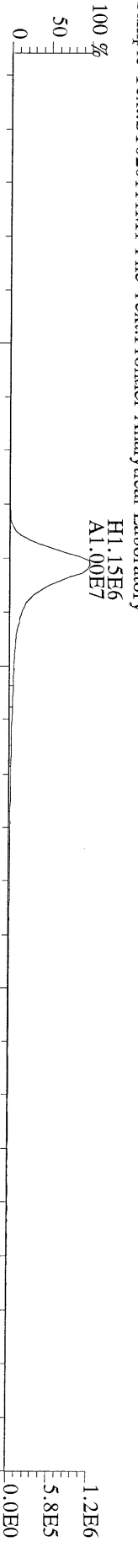
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459.7348 F:5 BSUB(10000,15,3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100 %



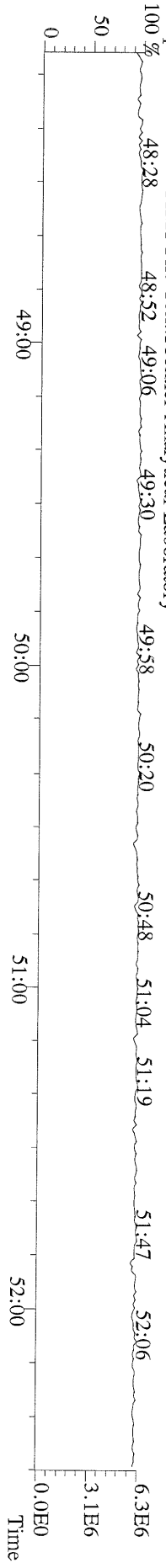
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469.7780 F:5 BSUB(10000,15,3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100 %



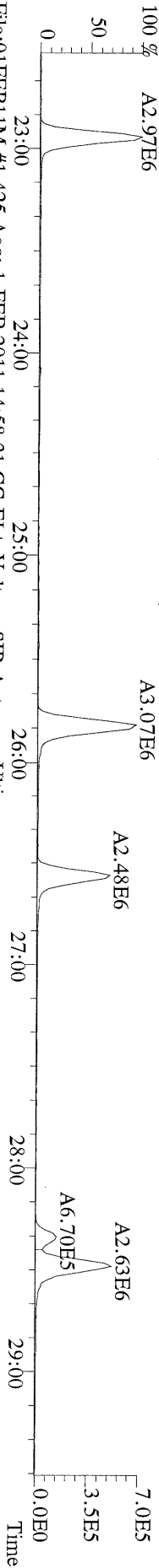
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471.7750 F:5 BSUB(10000,15,3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory



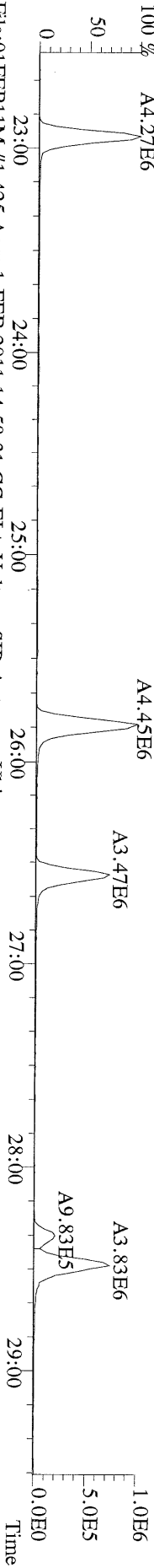
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory



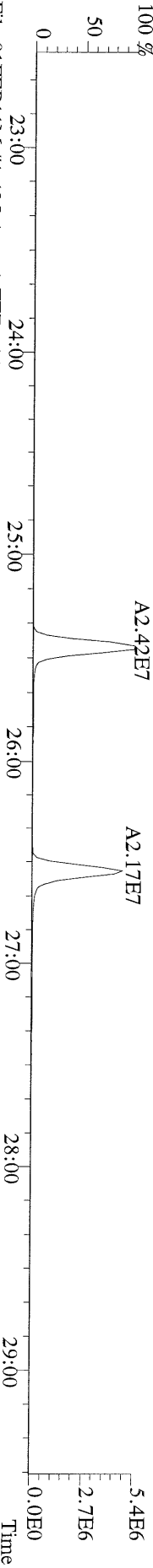
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



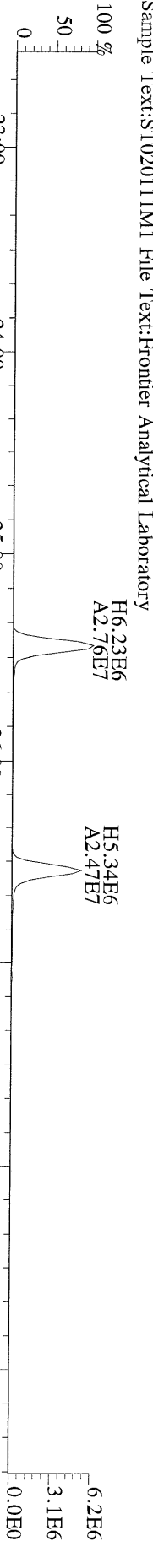
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
305.8987 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



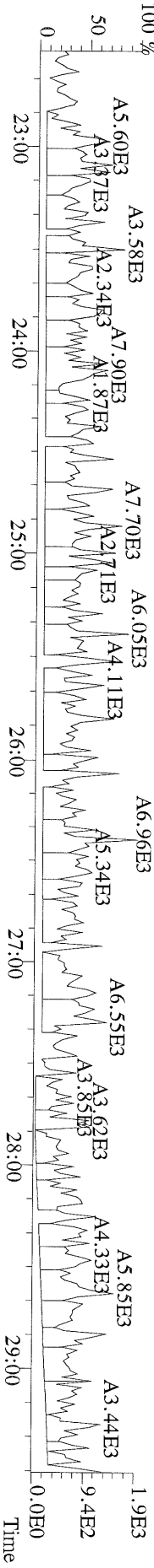
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
315.9419 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



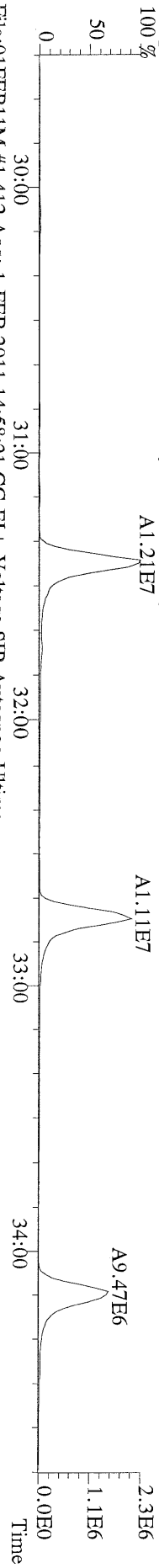
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317.9389 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



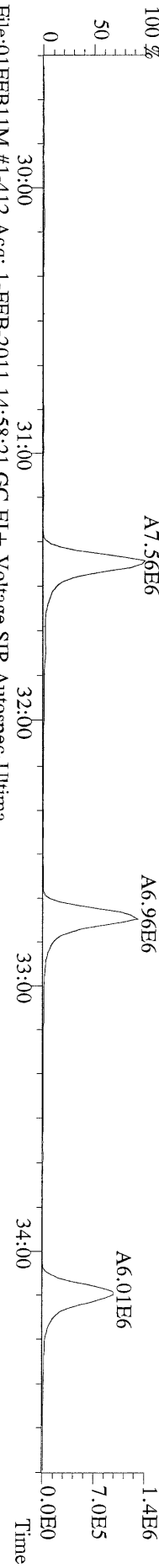
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



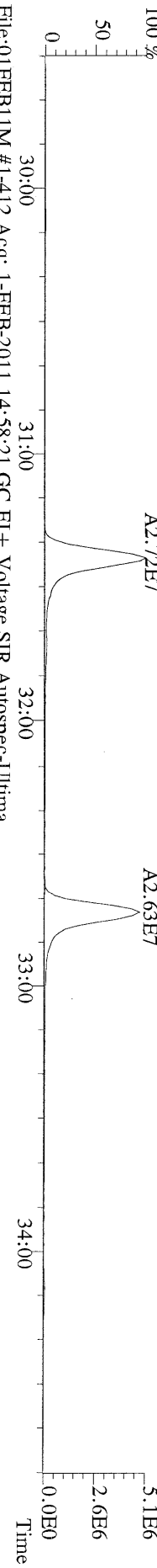
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



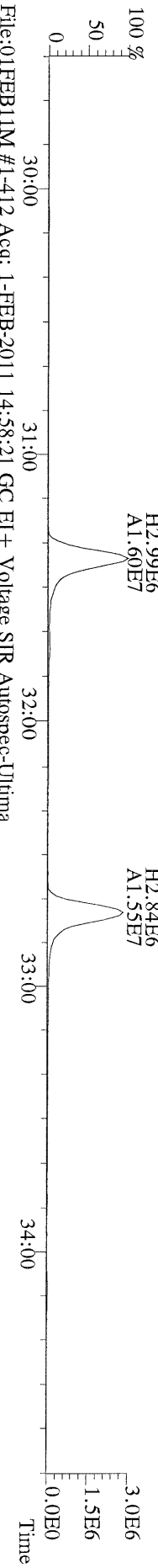
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



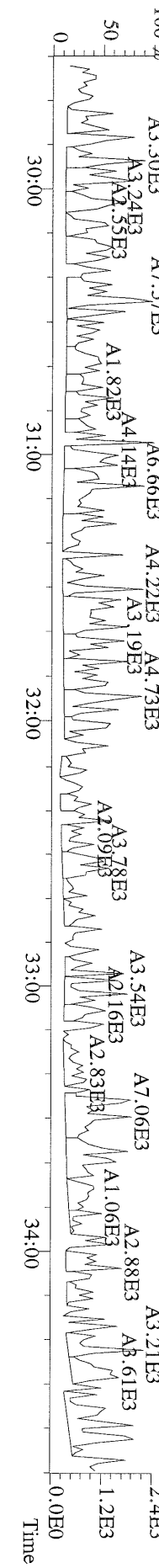
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



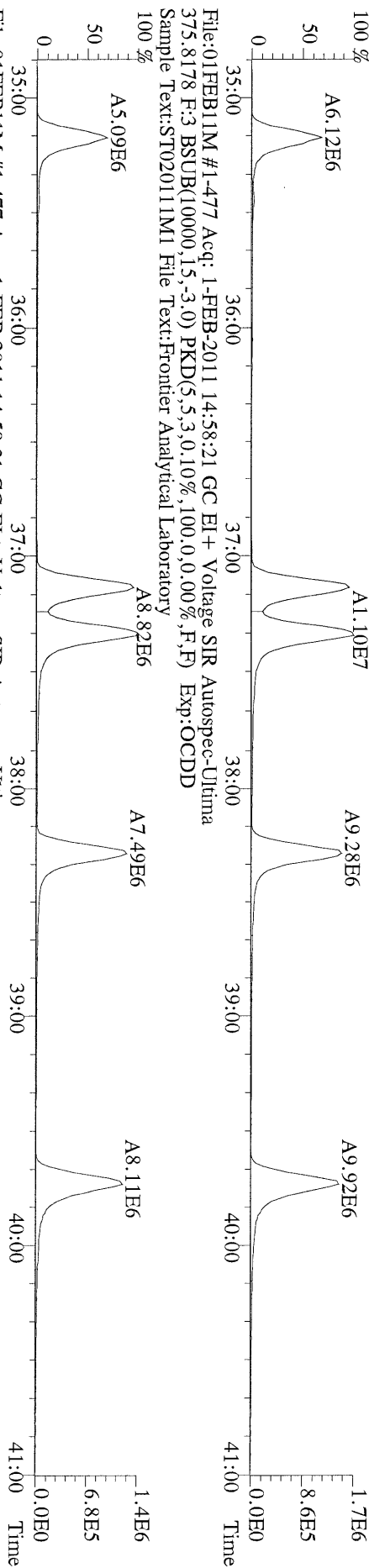
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



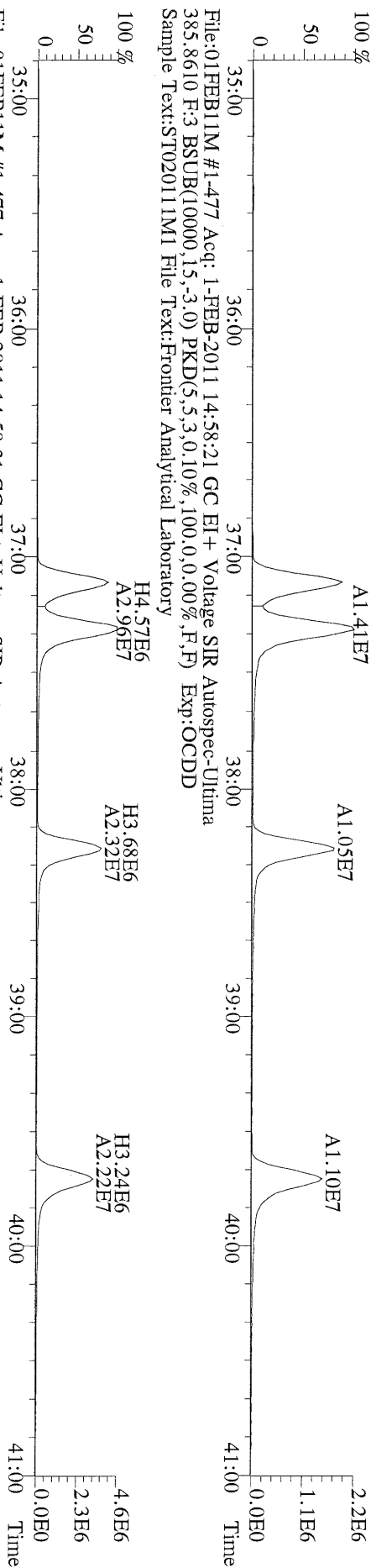
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



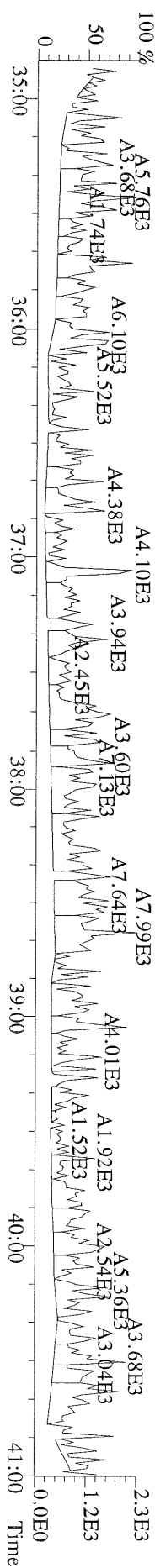
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



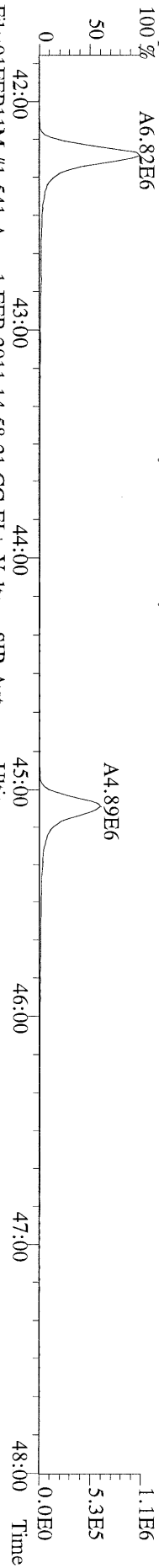
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
383.8639 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



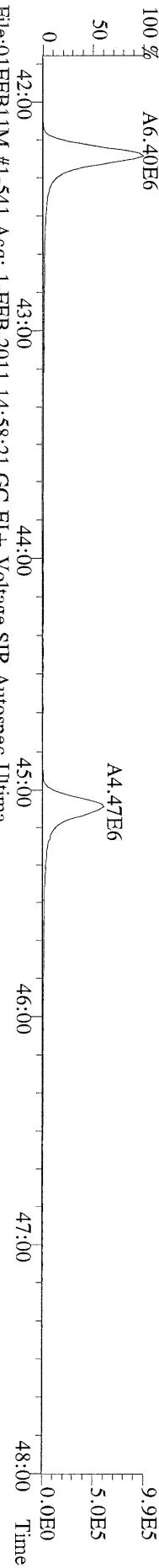
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



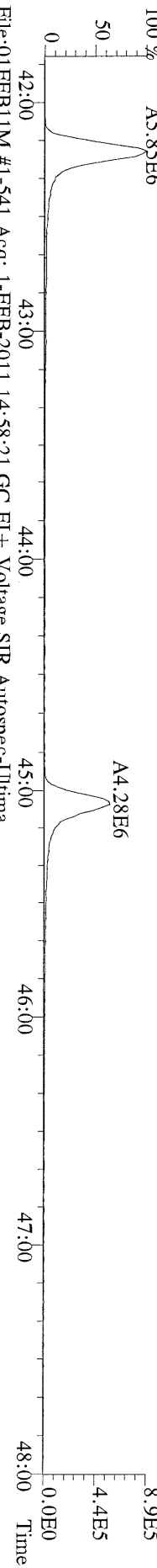
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100% A6.82E6



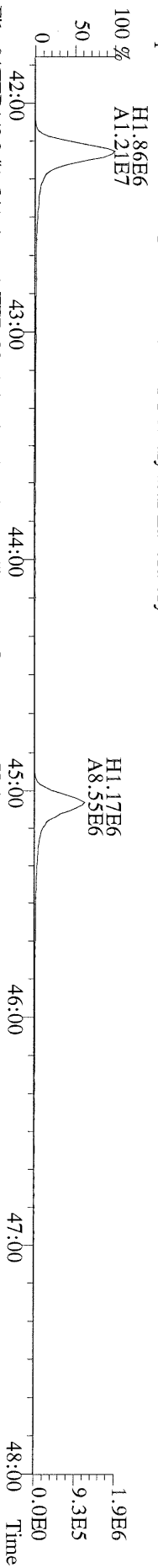
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409.7788 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100% A6.40E6



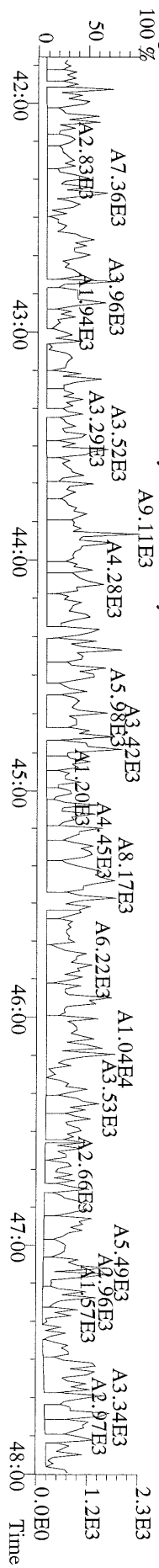
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100% A5.85E6



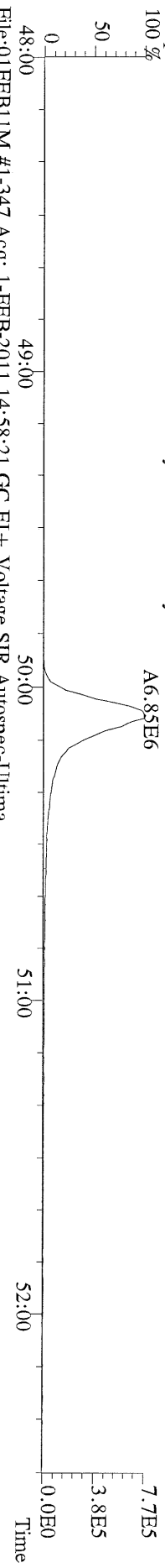
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419.8220 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



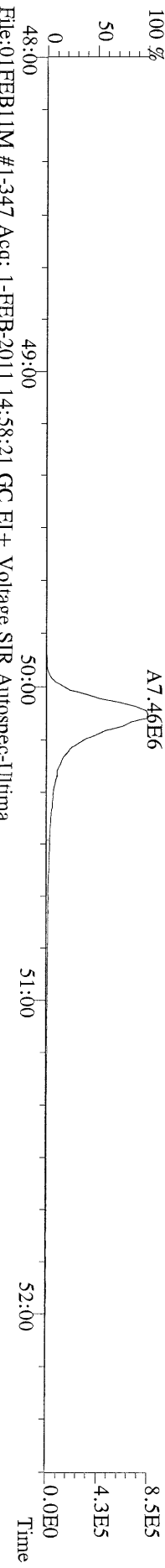
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479.7165 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100%



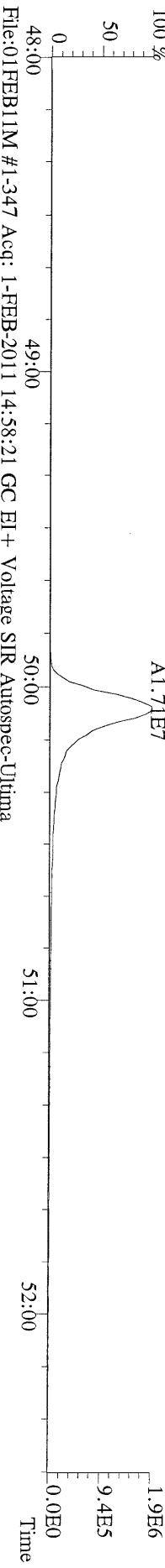
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



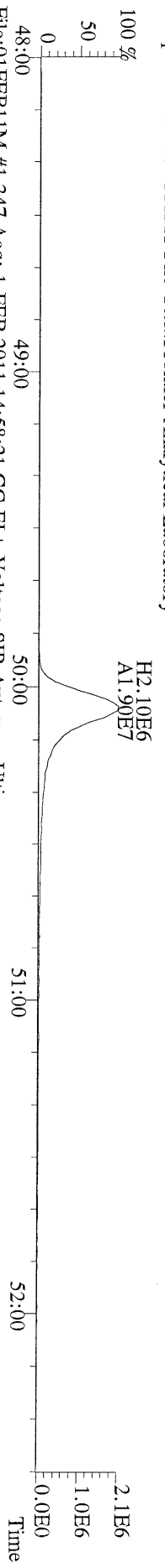
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
443.7398 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



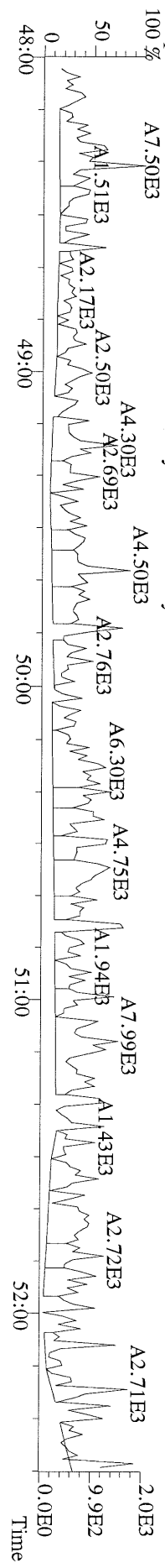
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453.7831 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory

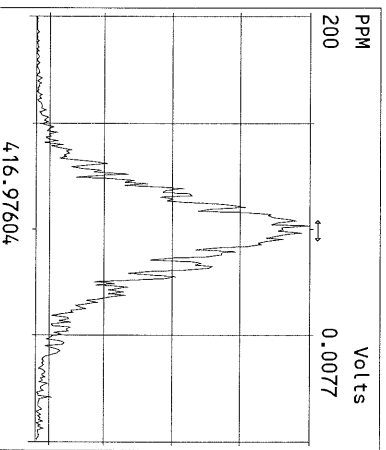
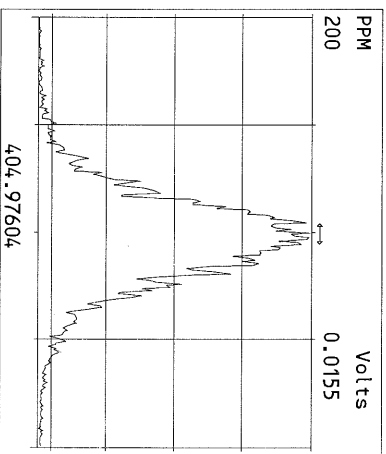
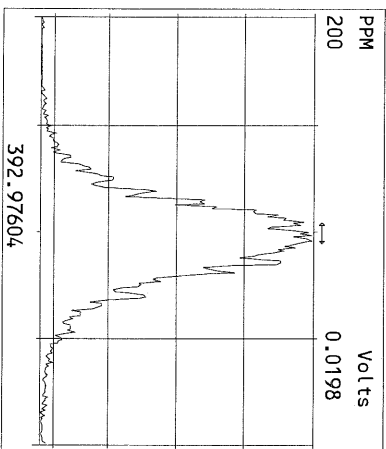
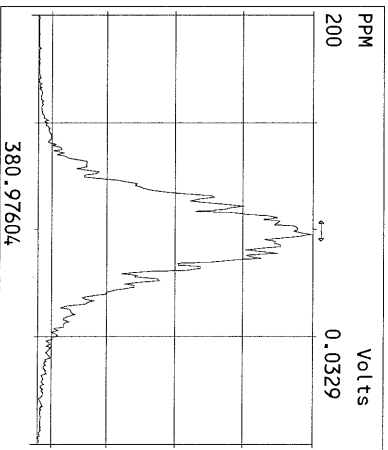
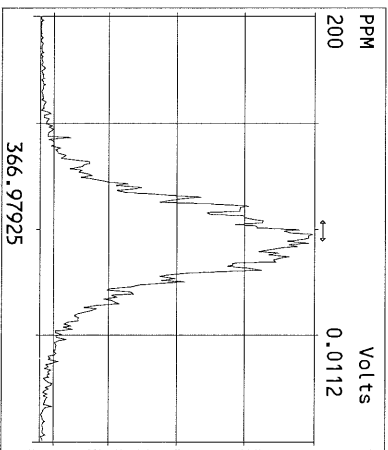
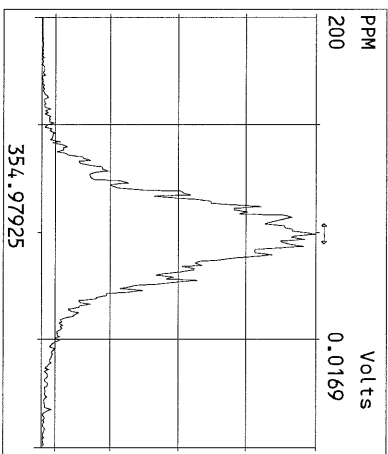
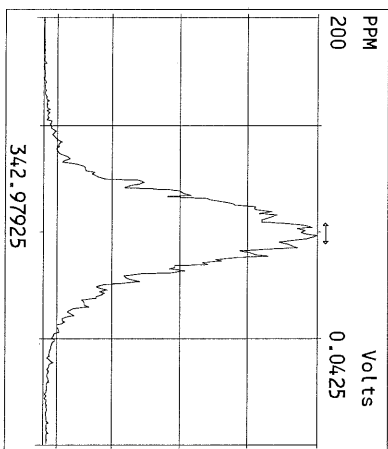
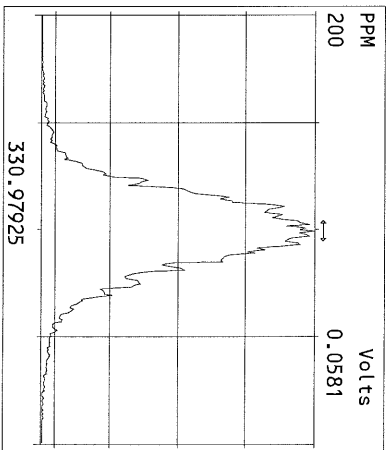
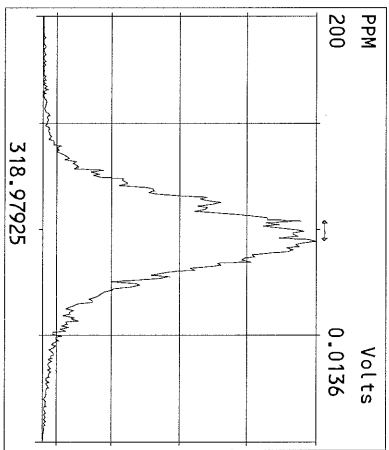
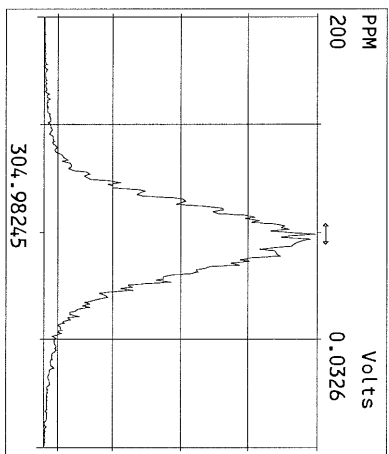
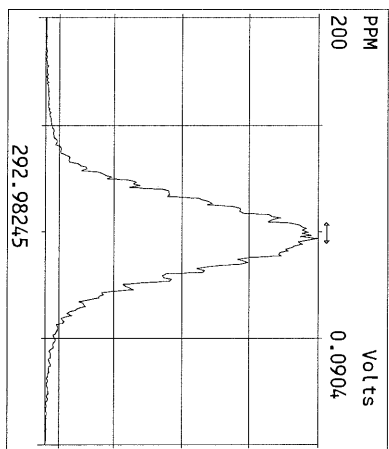


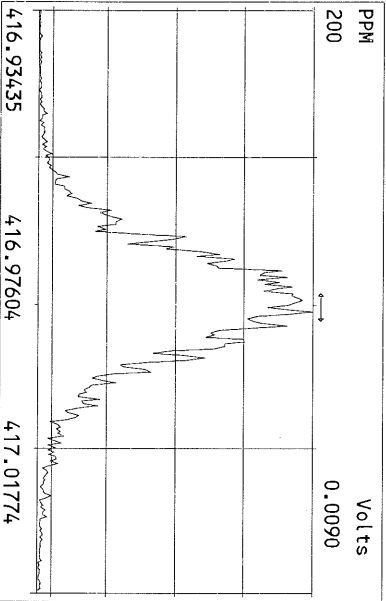
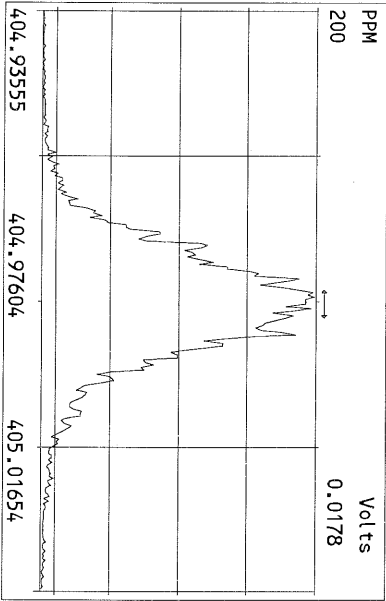
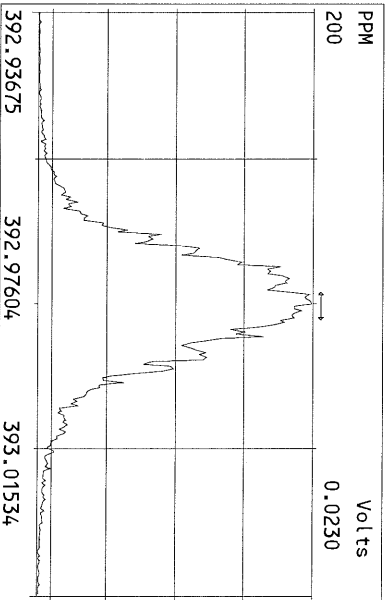
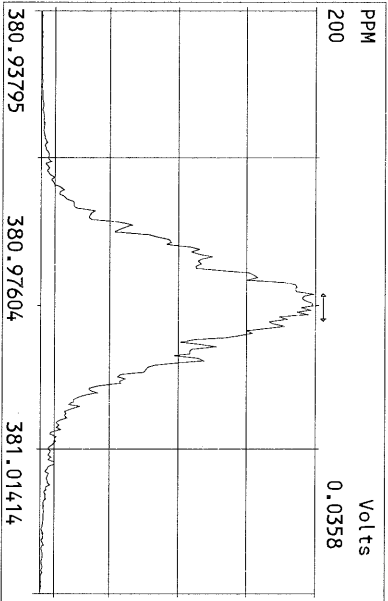
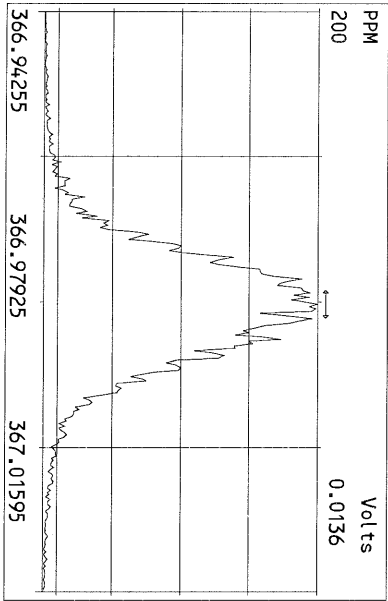
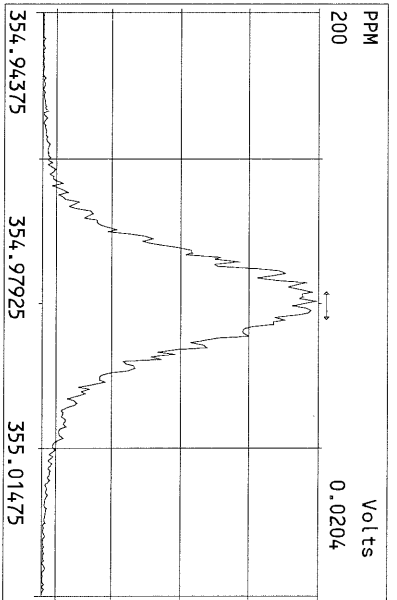
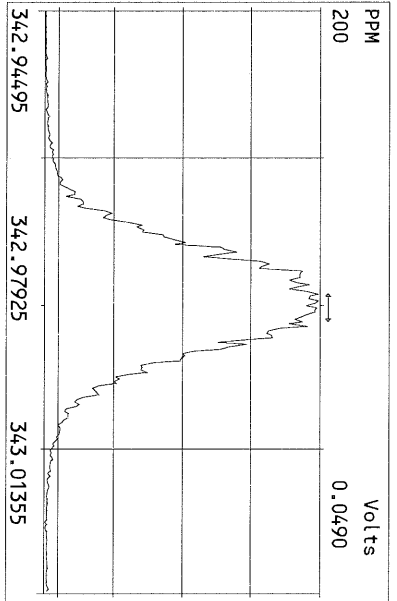
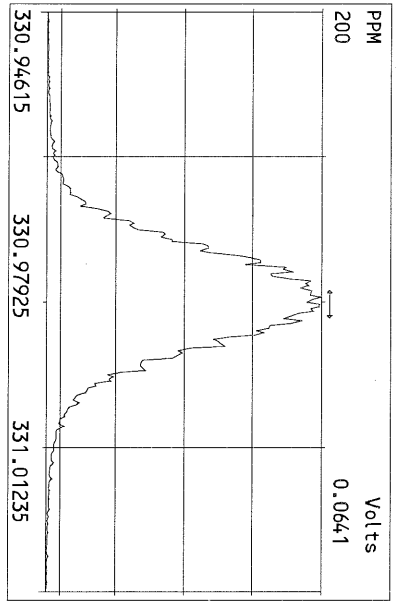
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455.7801 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory

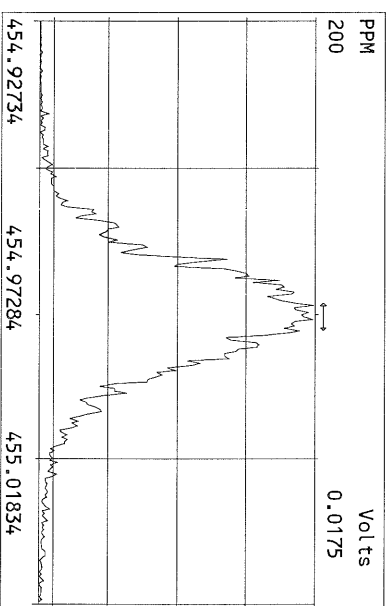
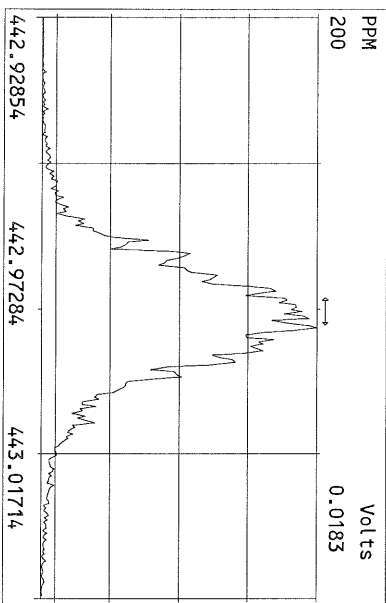
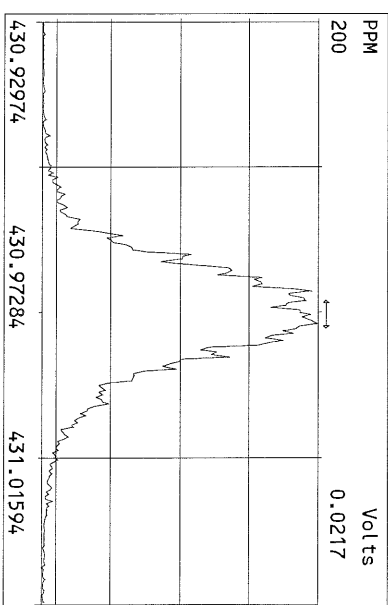
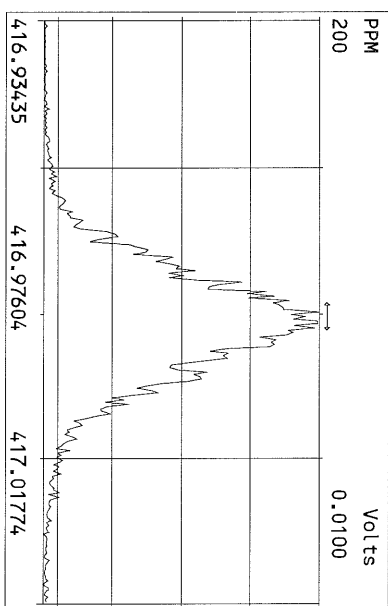
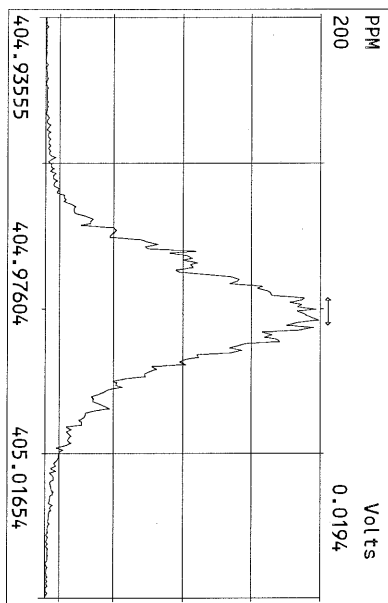
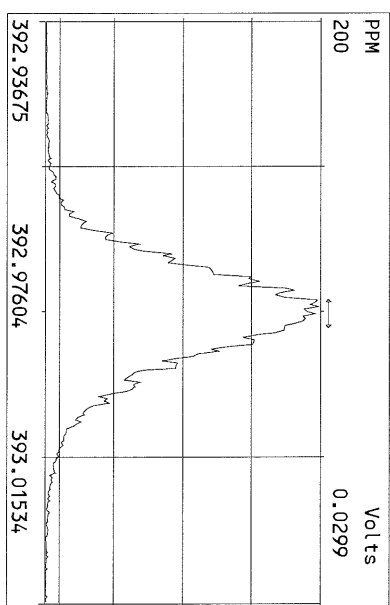
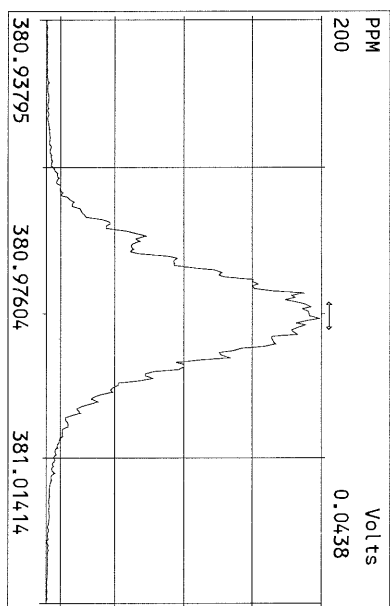
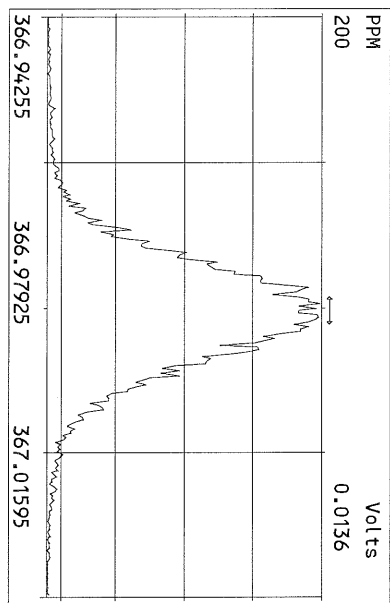


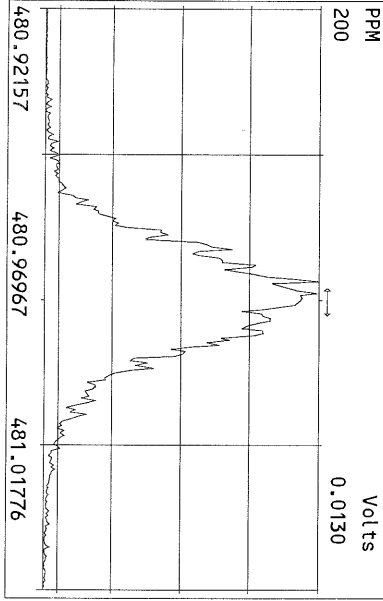
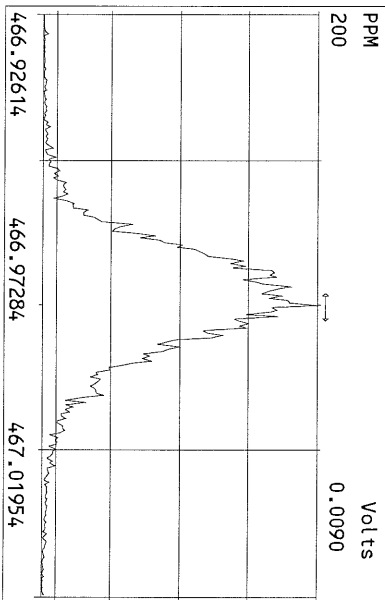
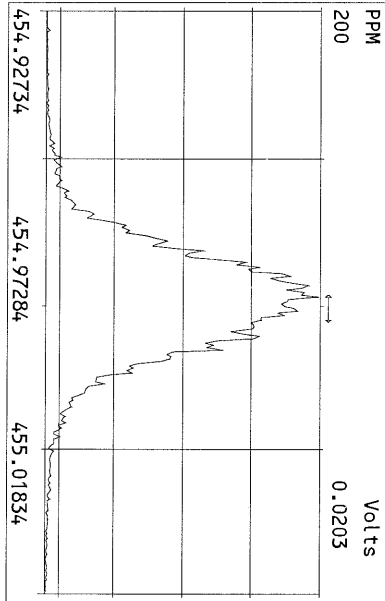
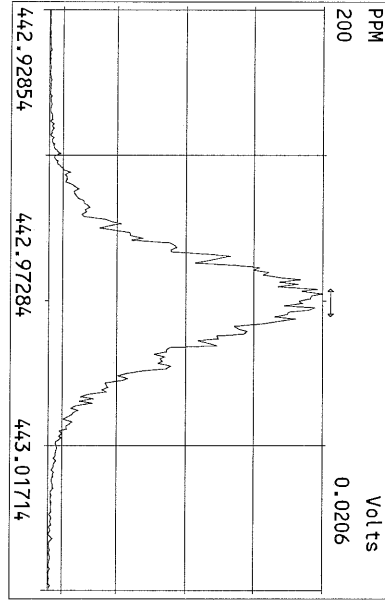
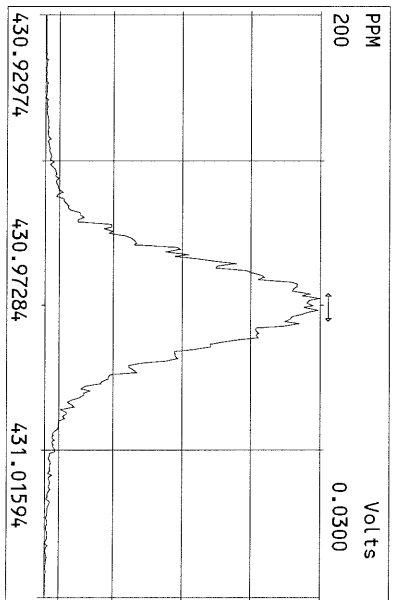
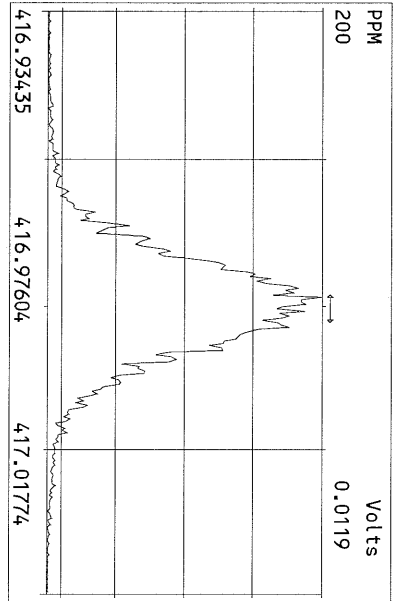
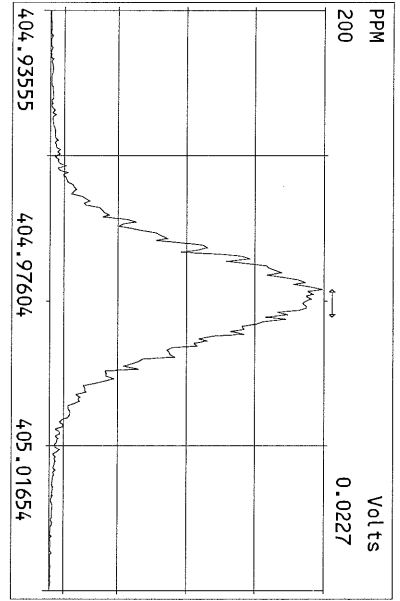
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory

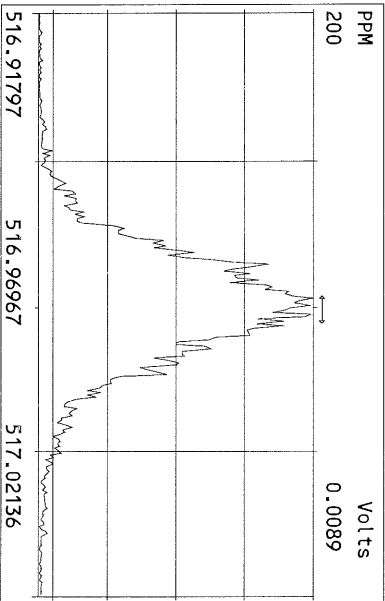
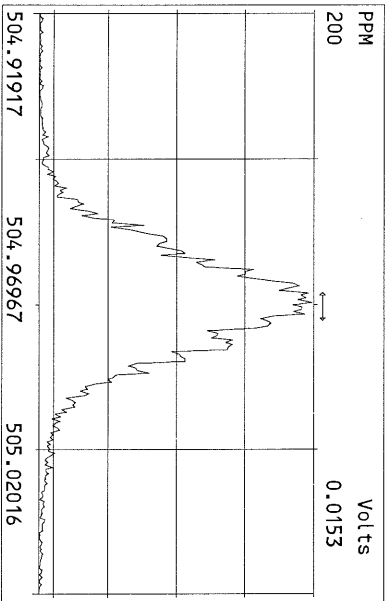
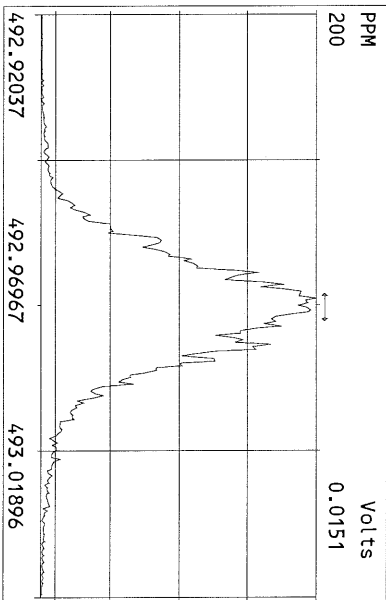
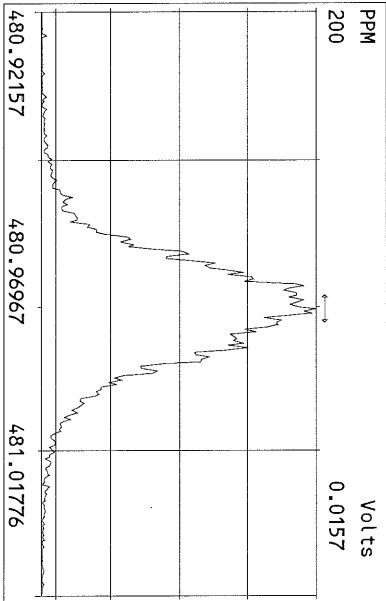
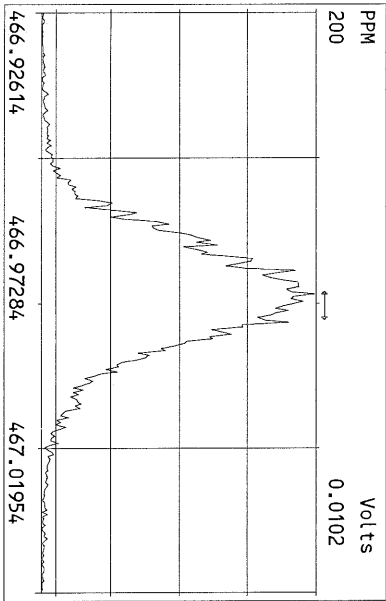
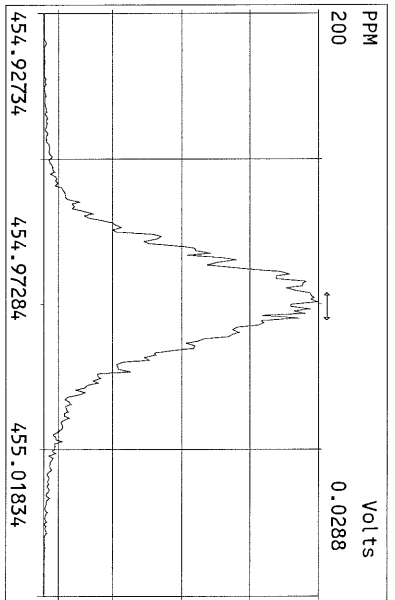
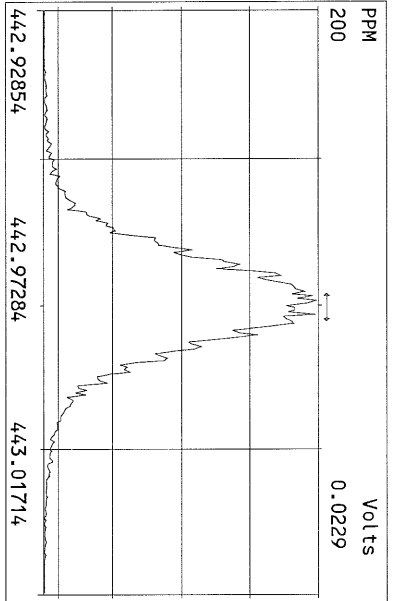
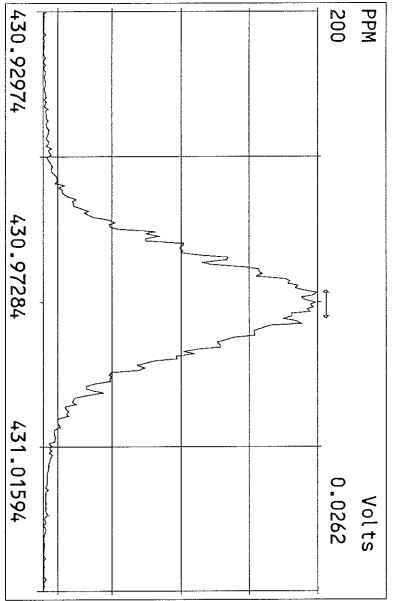












USEPA - ITD

FORM 4A

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 01FEB11M Sam:14

Analysis Date: 2-FEB-11 02:57:29

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.84	0.65-0.89	y	11.6	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.47	1.32-1.78	y	51.9	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	50.5	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	50.6	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	52.5	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.92	0.88-1.20	y	44.2	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.87	0.76-1.02	y	103	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	8.74	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	47.7	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	45.7	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	53.8	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	55.7	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	54.5	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05-1.43	y	55.7	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	53.0	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.09	0.88-1.20	y	54.5	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	107	63.0 - 159 ✓

(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.

Analyst: 

Date: 2/2/11

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 01FEB11M Sam:14

Analysis Date: 2-FEB-11 02:57:29


LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	95.8	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.71	1.32-1.78	y	117	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	101	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	98.7	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	110	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.98	0.76-1.02	y	218	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.88	0.65-0.89	y	92.5	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	109	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	110	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	96.2	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	89.6	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	92.5	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	91.4	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.49	0.37-0.51	y	91.9	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.50	0.37-0.51	y	96.5	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.94	0.76-1.02	y	194	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.7	7.80 - 12.8 ✓

(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.

Analyst: Date: 2/2/11

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 2-FEB-11 02:57:29

CS3 or VER Data Filename: 01FEB11M

Sam:14

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002 ✓
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003 ✓
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002 ✓
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002 ✓
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052 ✓
13C-2,3,7,8-TCDD		1.022	0.976-1.043 ✓
13C-2,3,7,8-TCDF		0.993	0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD		1.240	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF		1.225	0.923-1.303 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____



Date: _____



FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5


Analysis Date: 2-FEB-11 02:57:29

CS3 or VER Data Filename: 01FEB11M

Sam:14

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001 ✓
OCDD	13C-OCDD	1.001	0.999-1.001 ✓
OCDF	13C-OCDF	1.001	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.989	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF		1.152	1.057-1.154 ✓
13C-OCDD		1.270	1.032-1.311 ✓
13C-OCDF		1.280	1.000-1.311 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 