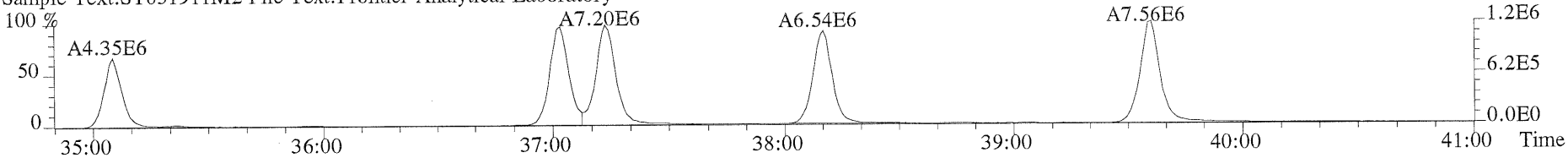
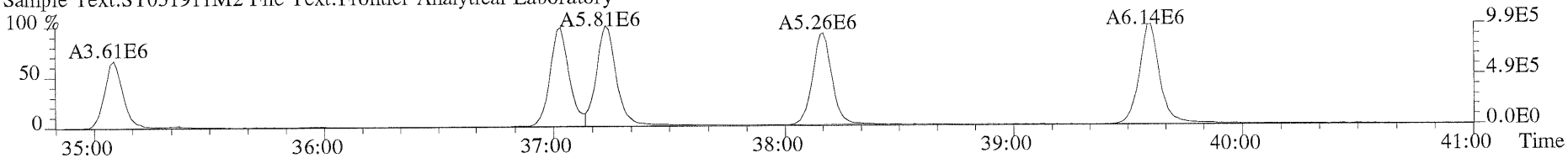
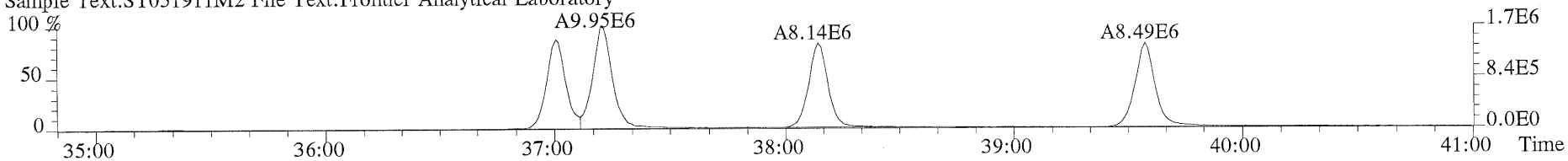
File:19MAY11M #1-477 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



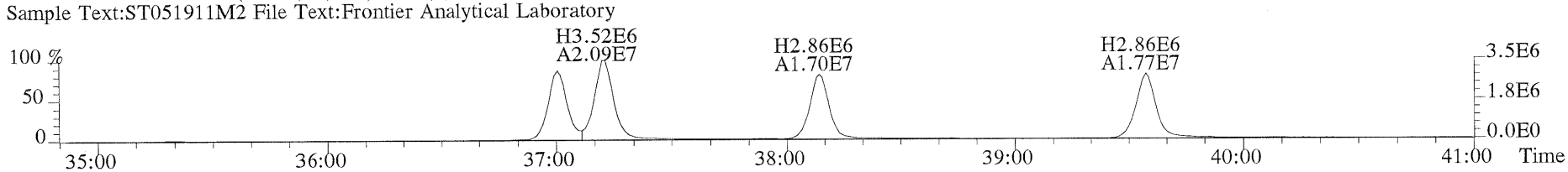
File:19MAY11M #1-477 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



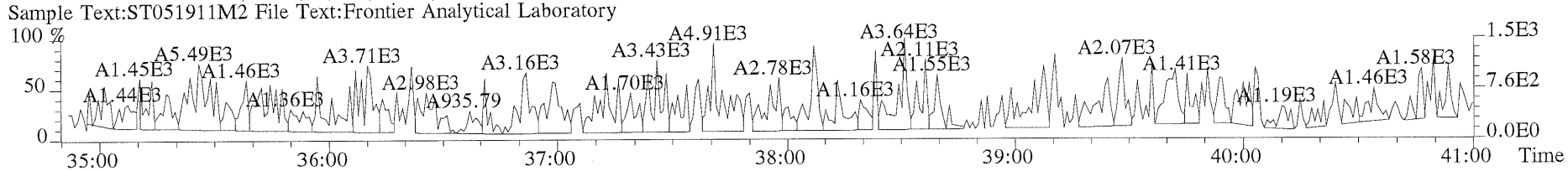
File:19MAY11M #1-477 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



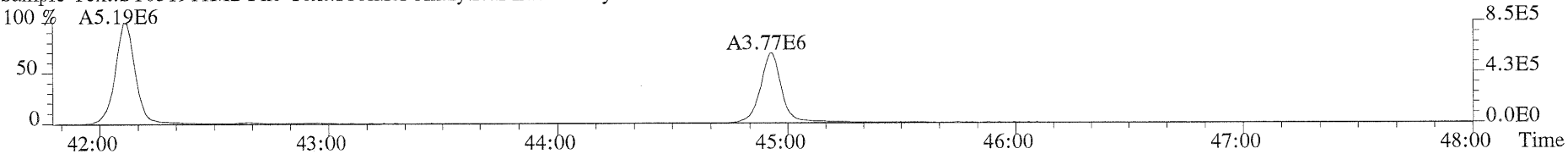
File:19MAY11M #1-477 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



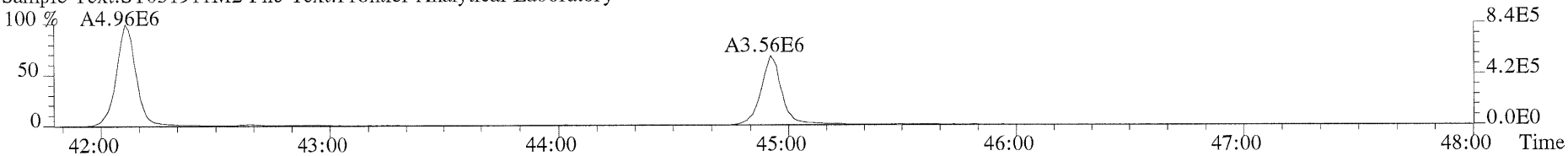
File:19MAY11M #1-477 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



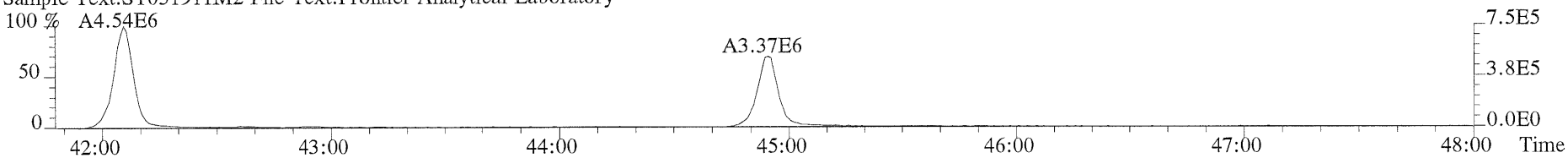
File:19MAY11M #1-541 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



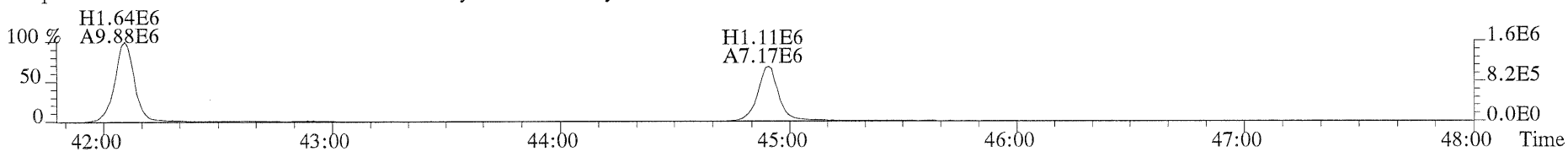
File:19MAY11M #1-541 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



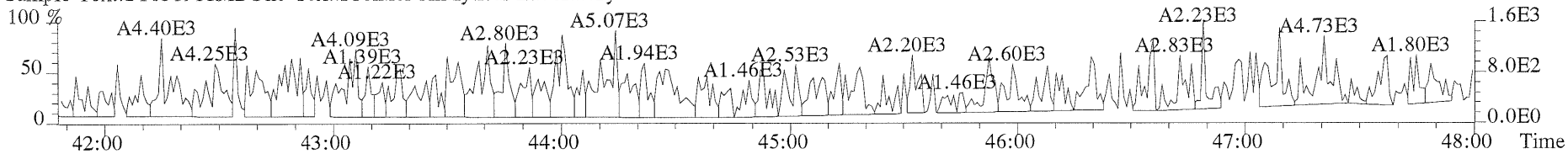
File:19MAY11M #1-541 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



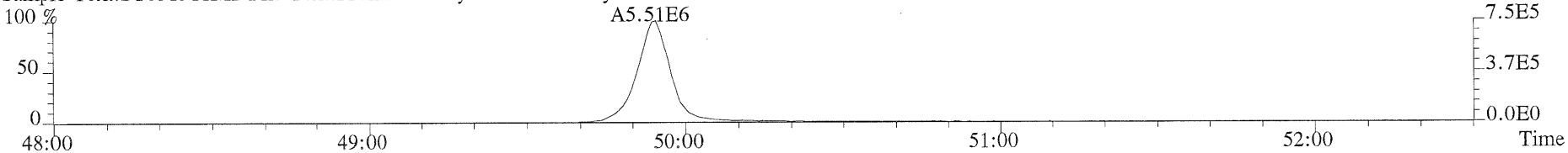
File:19MAY11M #1-541 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



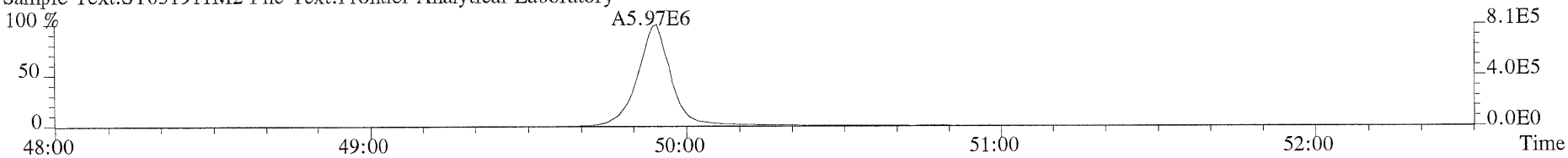
File:19MAY11M #1-541 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



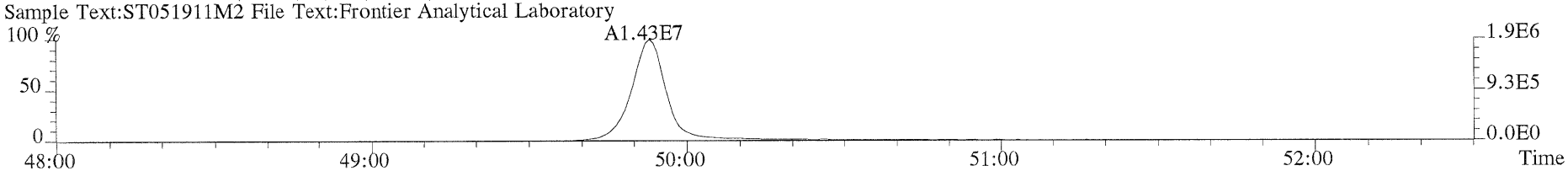
File:19MAY11M #1-348 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory



File:19MAY11M #1-348 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory

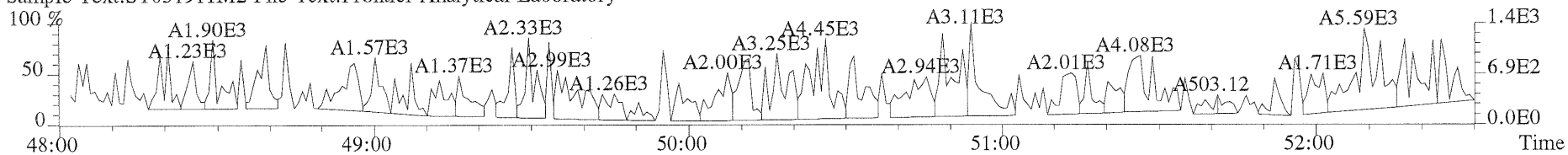


File:19MAY11M #1-348 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory

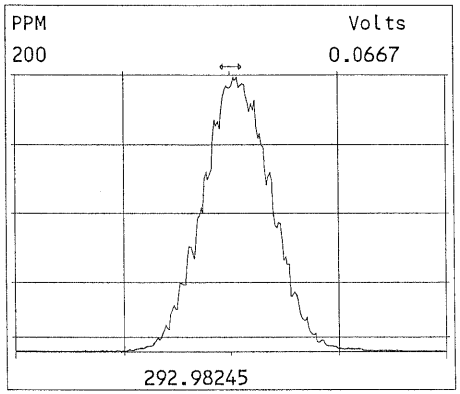


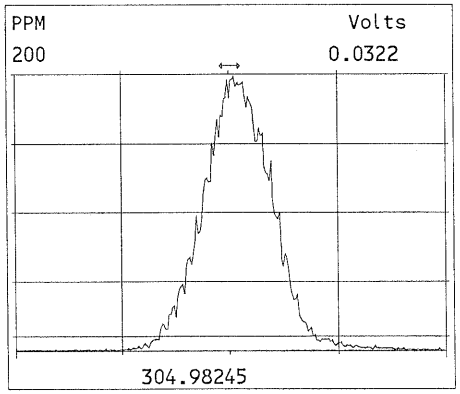
File:19MAY11M #1-348 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory

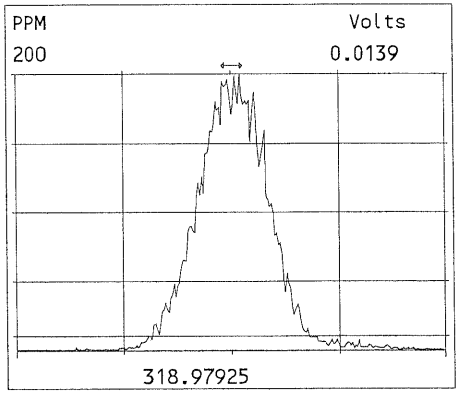
File:19MAY11M #1-348 Acq:20-MAY-2011 02:37:00 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST051911M2 File Text:Frontier Analytical Laboratory

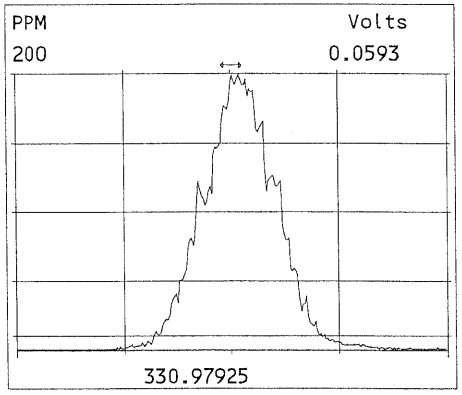


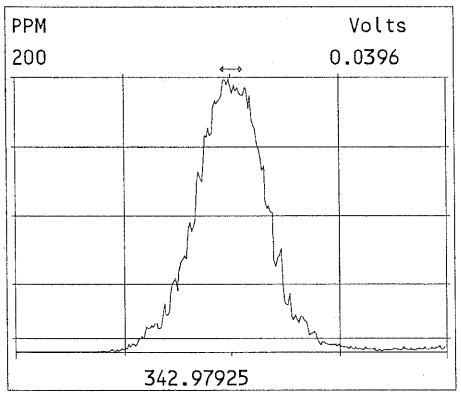
Peak Locate Examination:20-MAY-2011:10:01 File:19MAY11M_RES_CHECK
Experiment:OCDD Function:1 Reference:PFK

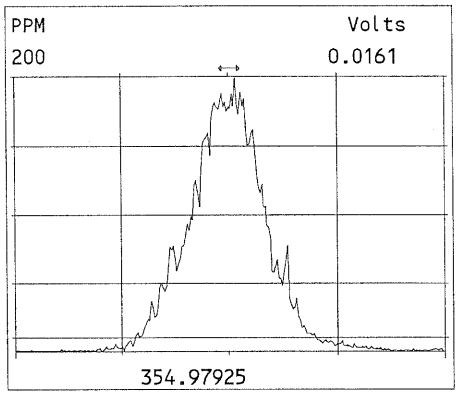


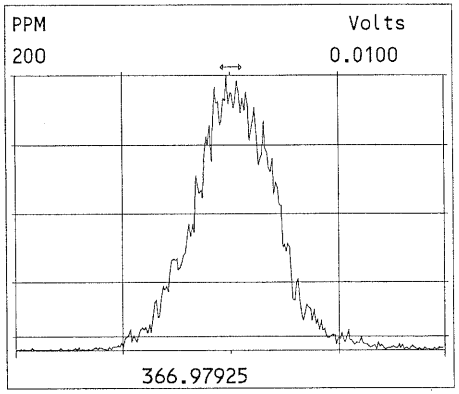


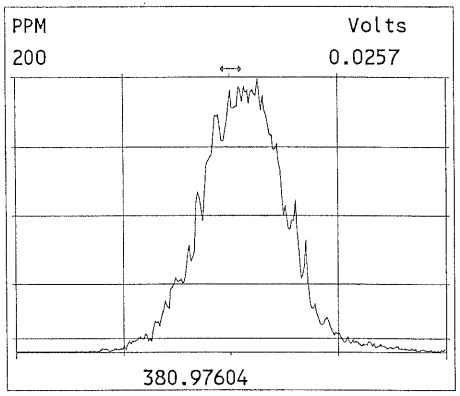


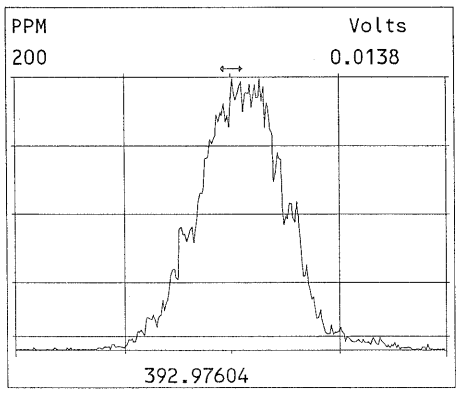


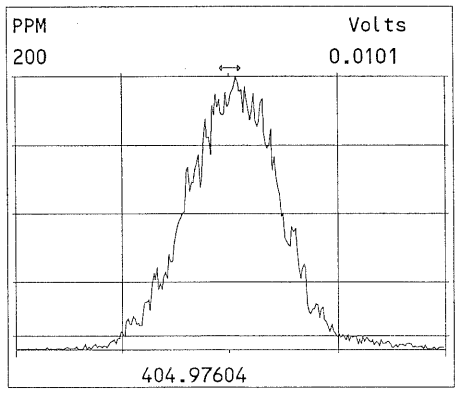


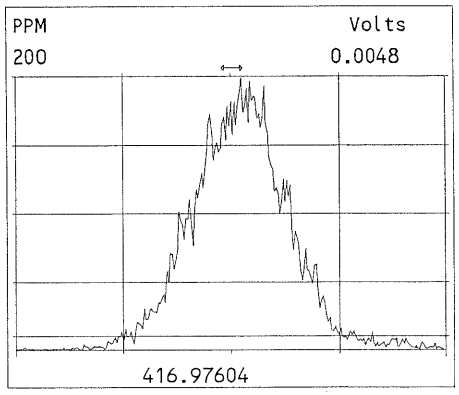




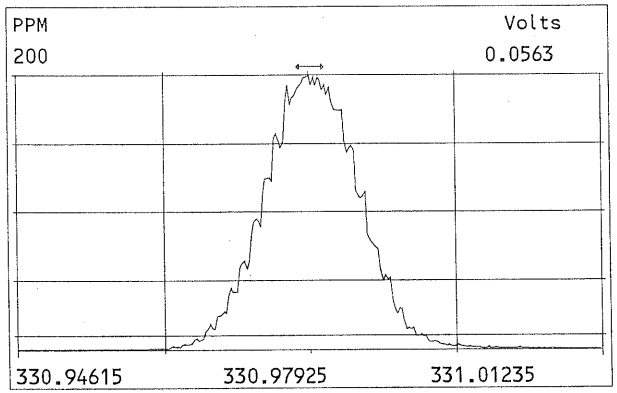


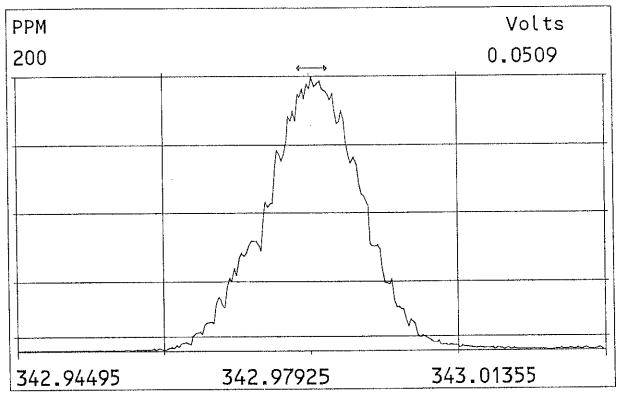


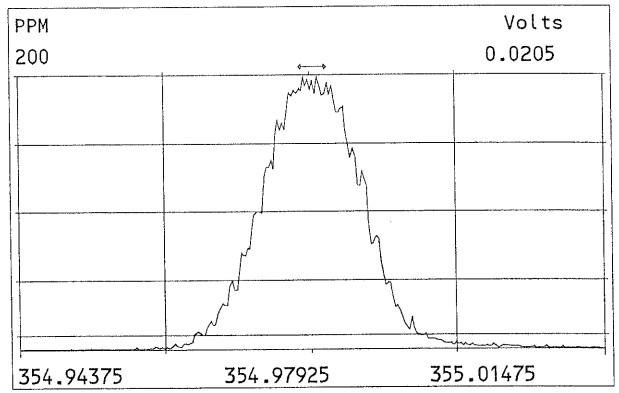


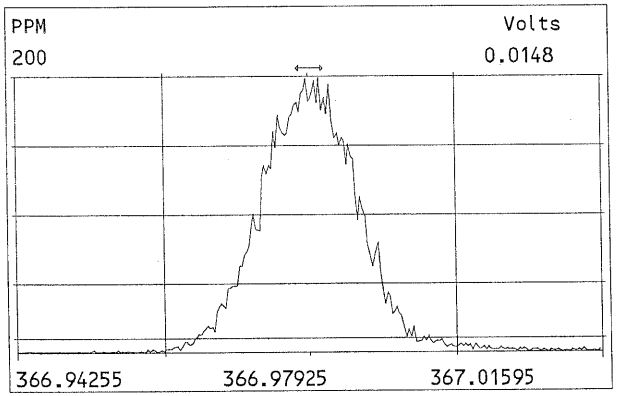


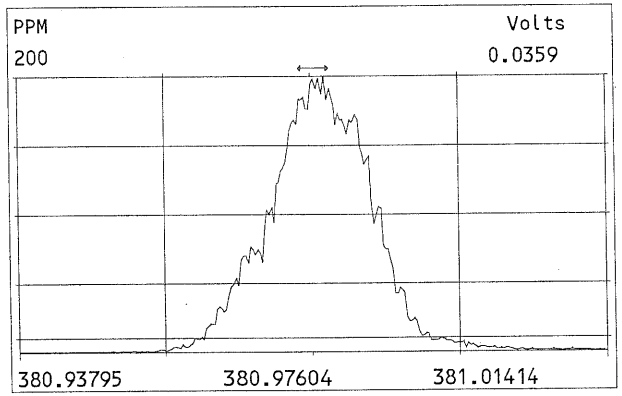
Peak Locate Examination:20-MAY-2011:10:03 File:19MAY11M_RES_CHECK
Experiment:OCDD Function:2 Reference:PFK

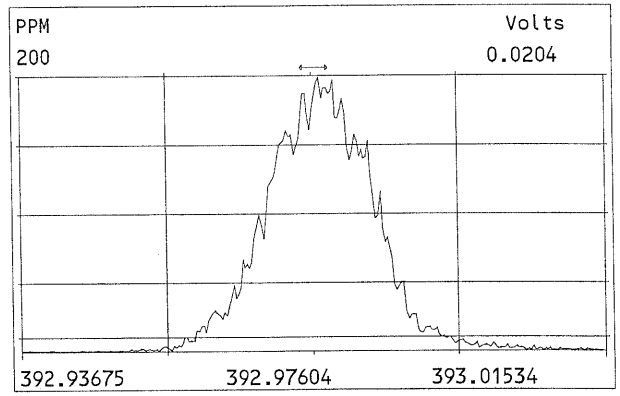


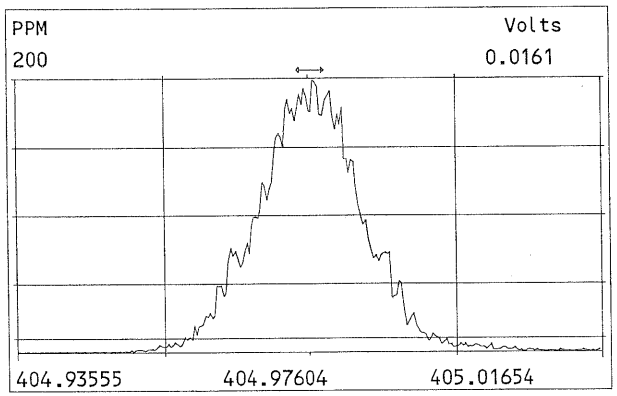


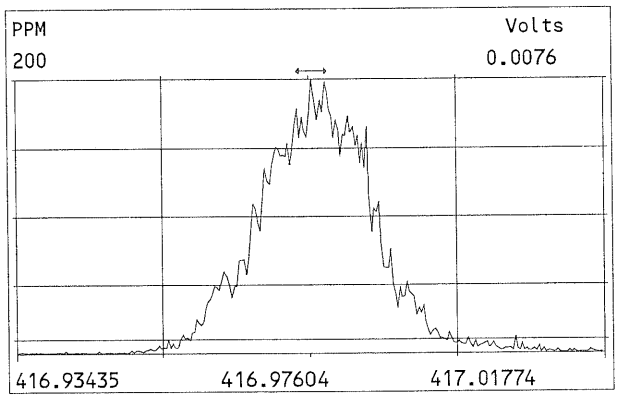




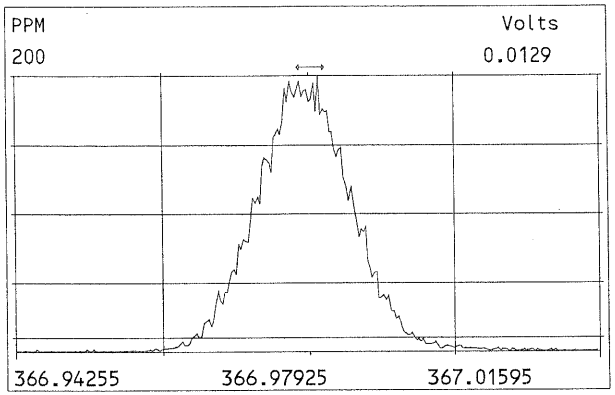


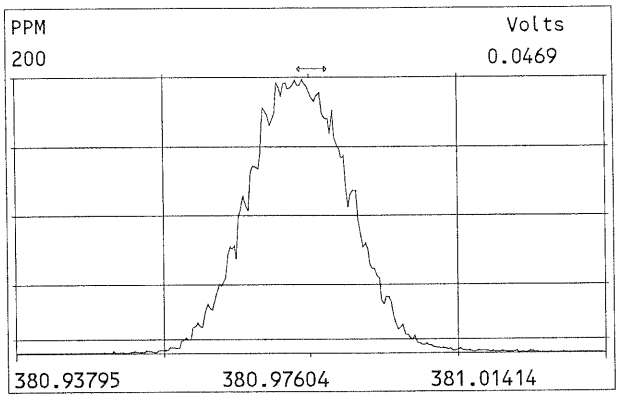


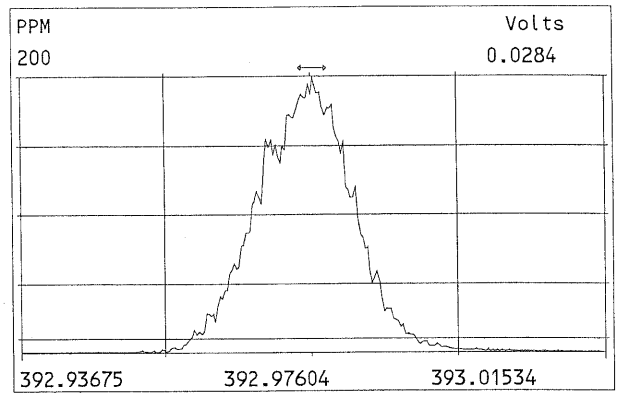


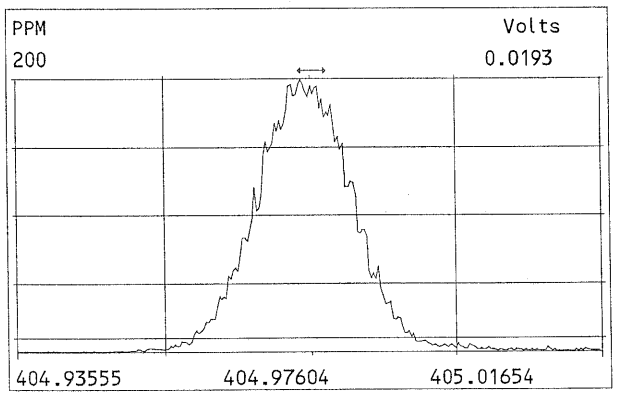


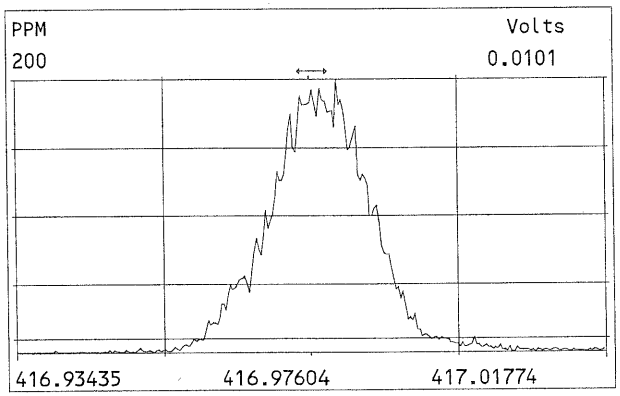
Peak Locate Examination:20-MAY-2011:10:05 File:19MAY11M_RES_CHECK
Experiment:OCDD Function:3 Reference:PFK

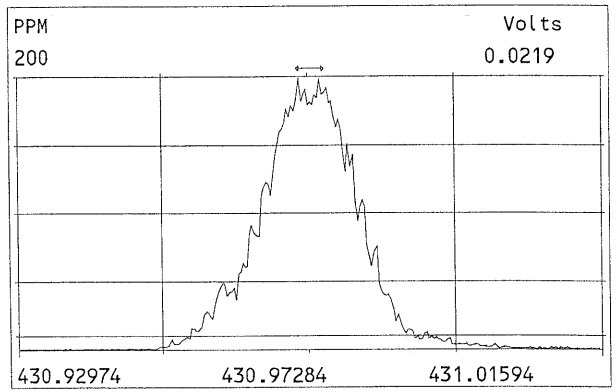


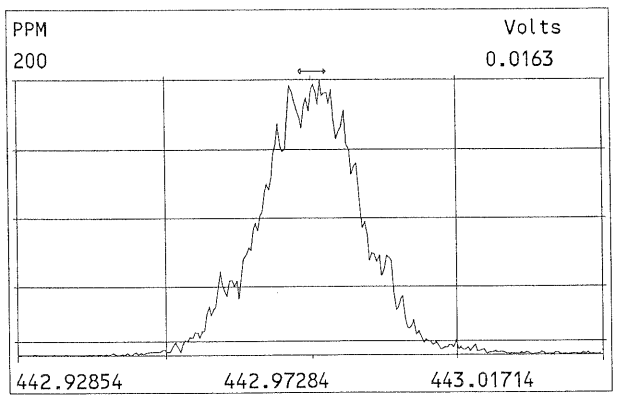


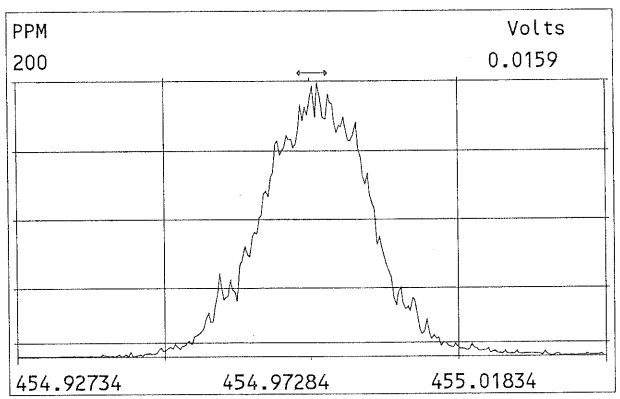




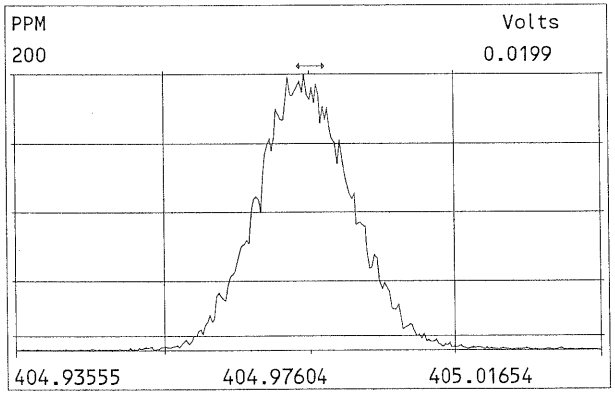


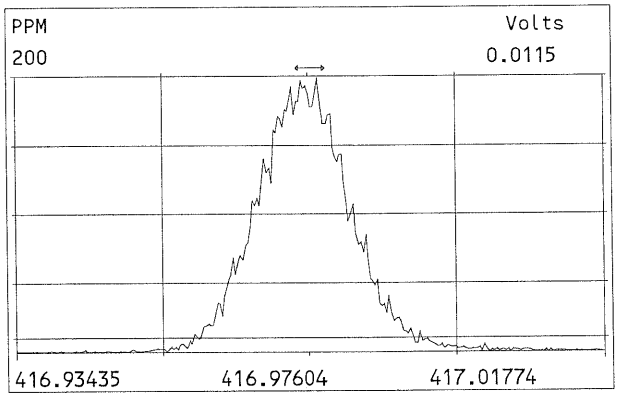


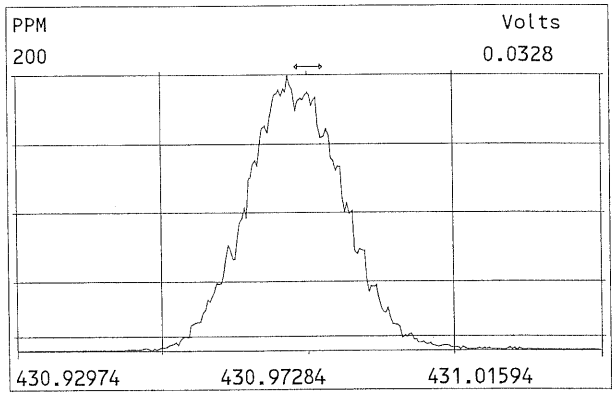


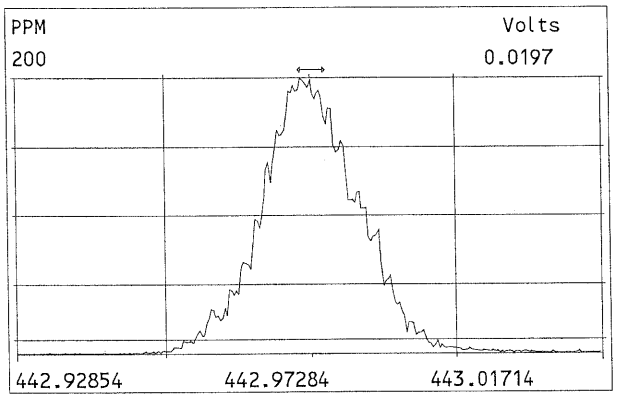


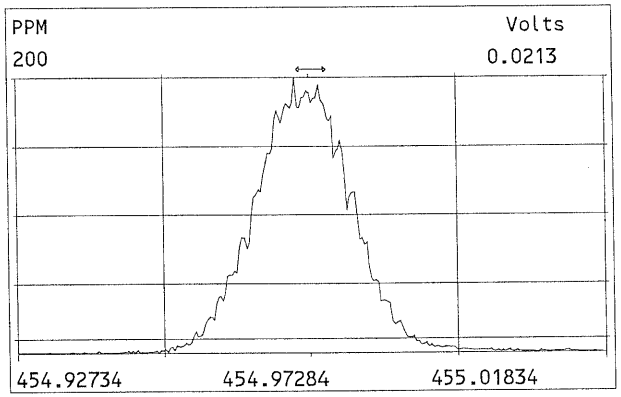
Peak Locate Examination:20-MAY-2011:10:07 File:19MAY11M_RES_CHECK
Experiment:OCDD Function:4 Reference:PFK

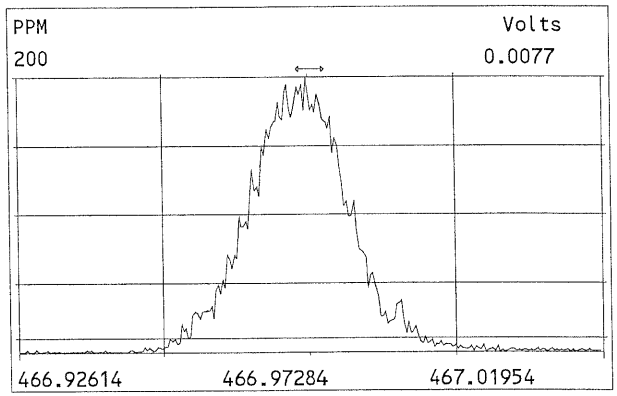


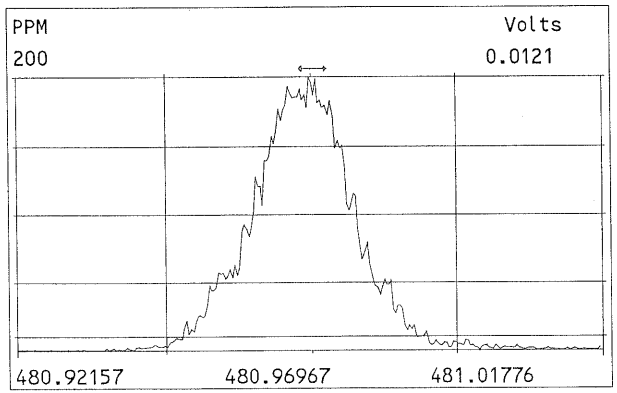




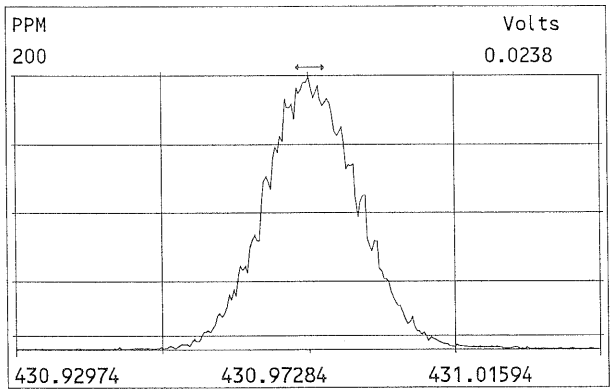


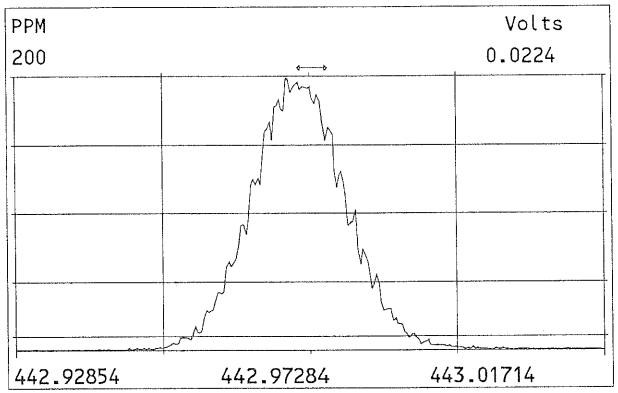


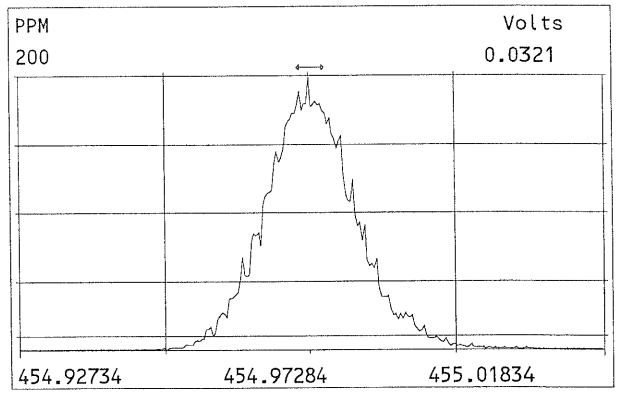


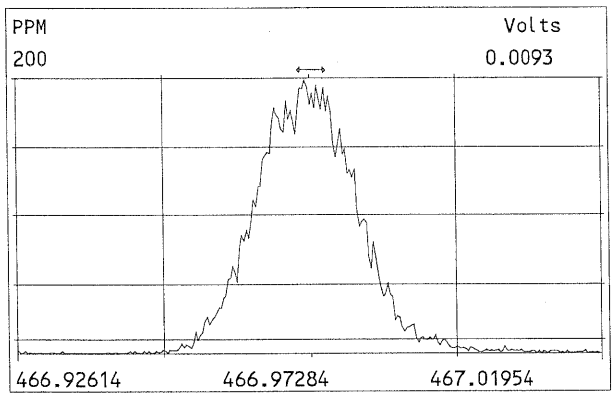


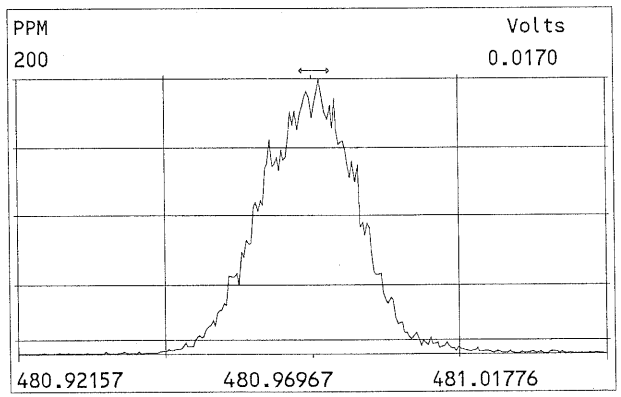
Peak Locate Examination:20-MAY-2011:10:09 File:19MAY11M_RES_CHECK
Experiment:OCDD Function:5 Reference:PFK

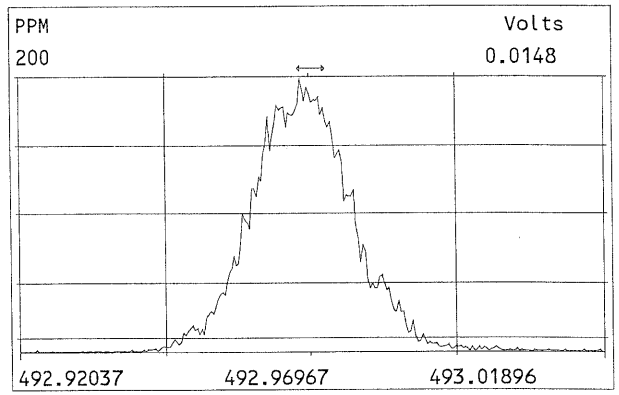


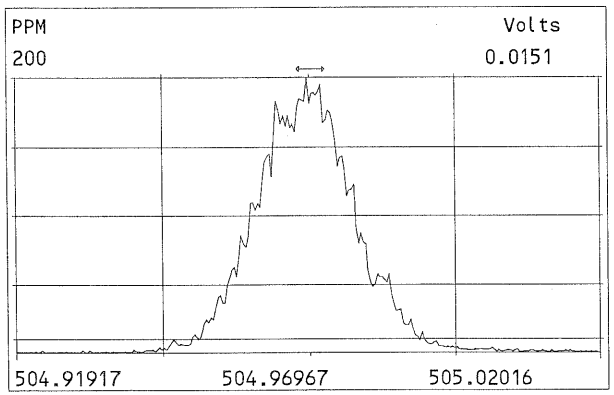


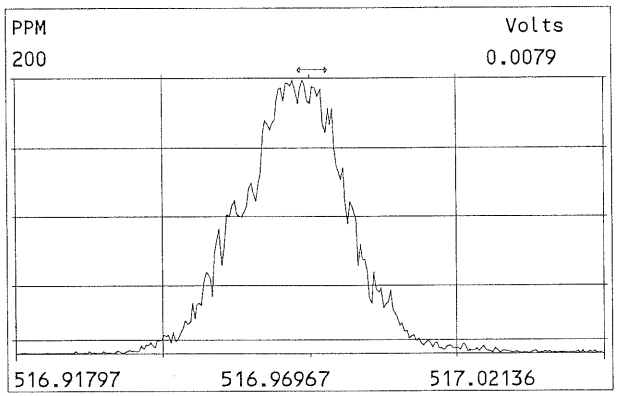












FRONTIER
ANALYTICAL LABORATORY

May 23, 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 **6739**. This corresponds to your **Lora Lake Apts RI** project under ARI project number **ST98**. Four aqueous samples were received on 4/29/2011 in good condition. Per your request, a matrix spike and matrix spike duplicate (MS/MSD) were analyzed on sample 6739-004-SA (ARI ID: MW06-042611). All 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 (15) business days for project **6739**.

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 sample photos. 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 **6739**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Vice President

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6739**

Received on: **04/29/2011** Project Due: **05/23/2011** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time
6739-001-SA	1	ST98	MW02-042611	EPA 1613 D/F	Aqueous	04/26/2011	10:20 am
6739-002-SA	1	ST98	MW03-042611	EPA 1613 D/F	Aqueous	04/26/2011	01:25 pm
6739-003-SA	1	ST98	MW13-042611	EPA 1613 D/F	Aqueous	04/26/2011	02:50 pm
6739-004-SA	1	ST98	MW06-042611	EPA 1613 D/F	Aqueous	04/26/2011	04:00 pm
6739-004-MSD	0	ST98	MW06-042611	EPA 1613 D/F	Aqueous	04/26/2011	04:00 pm
6739-004-MS	0	ST98	MW06-042611	EPA 1613 D/F	Aqueous	04/26/2011	04:00 pm

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6739-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.866		-	0.215				
1,2,3,7,8-PeCDD	ND	0.894		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.19		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.50		-	0.424	Total TCDD	ND	0.866	
1,2,3,7,8,9-HxCDD	ND	1.30		-	0.367	Total PeCDD	ND	0.894	
1,2,3,4,6,7,8-HpCDD	ND	2.13		-	0.497	Total HxCDD	ND	1.50	
OCDD	ND	2.71		-	1.41	Total HpCDD	ND	2.13	
2,3,7,8-TCDF	ND	0.712		-	0.209				
1,2,3,7,8-PeCDF	ND	1.26		-	0.235				
2,3,4,7,8-PeCDF	ND	1.27		-	0.243				
1,2,3,4,7,8-HxCDF	ND	0.892		-	0.255				
1,2,3,6,7,8-HxCDF	ND	0.849		-	0.248				
2,3,4,6,7,8-HxCDF	ND	0.831		-	0.262				
1,2,3,7,8,9-HxCDF	ND	0.768		-	0.258	Total TCDF	ND	0.712	
1,2,3,4,6,7,8-HpCDF	ND	1.09		-	0.324	Total PeCDF	ND	1.27	
1,2,3,4,7,8,9-HpCDF	ND	1.39		-	0.490	Total HxCDF	ND	0.892	
OCDF	ND	2.46		-	0.805	Total HpCDF	ND	1.39	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	98.2	25.0 - 164	
13C-1,2,3,7,8-PeCDD	89.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	96.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	94.4	23.0 - 140	
13C-OCDD	99.8	17.0 - 157	
13C-2,3,7,8-TCDF	98.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	86.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	90.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	101	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	98.8	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	102	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	98.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	100	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	99.2	26.0 - 138	
13C-OCDF	93.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.0	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: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6739-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: ng/ml

Acquired: 05-18-2011
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.3	6.70 - 15.8	
1,2,3,7,8-PeCDD	56.8	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	56.2	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	56.9	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	58.0	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	58.8	35.0 - 70.0	
OCDD	111	78.0 - 144	
2,3,7,8-TCDF	10.7	7.50 - 15.8	
1,2,3,7,8-PeCDF	57.4	40.0 - 67.0	
2,3,4,7,8-PeCDF	57.2	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	56.1	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	56.9	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	57.7	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	58.1	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	56.8	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	56.2	39.0 - 69.0	
OCDF	119	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.7	20.0 - 175	
13C-1,2,3,7,8-PeCDD	80.4	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	84.0	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	78.7	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	76.6	26.0 - 166	
13C-OCDD	81.1	13.0 - 198	
13C-2,3,7,8-TCDF	96.9	22.0 - 152	
13C-1,2,3,7,8-PeCDF	84.6	21.0 - 192	
13C-2,3,4,7,8-PeCDF	88.1	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	88.1	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	86.4	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	88.8	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	84.1	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	81.4	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	81.0	20.0 - 186	
13C-OCDF	77.8	13.0 - 198	

Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	100	31.0 - 191	

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: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6739-001-SA
Client ID: MW02-042611
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Amount: 1.002 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00275

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.981		-	0.215				
1,2,3,7,8-PeCDD	ND	1.19		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.76		-	0.326				
1,2,3,6,7,8-HxCDD	ND	2.24		-	0.424	Total TCDD	ND	0.981	
1,2,3,7,8,9-HxCDD	ND	1.93		-	0.367	Total PeCDD	ND	1.19	
1,2,3,4,6,7,8-HpCDD	ND	2.49		-	0.497	Total HxCDD	ND	2.24	
OCDD	9.17	-	J	0.00275	1.41	Total HpCDD	ND	2.49	
2,3,7,8-TCDF	ND	0.749		-	0.209				
1,2,3,7,8-PeCDF	ND	1.31		-	0.235				
2,3,4,7,8-PeCDF	ND	1.32		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.20		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.14		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.17		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.05		-	0.258	Total TCDF	ND	0.749	
1,2,3,4,6,7,8-HpCDF	ND	1.21		-	0.324	Total PeCDF	ND	1.32	
1,2,3,4,7,8,9-HpCDF	ND	1.53		-	0.490	Total HxCDF	ND	1.20	
OCDF	ND	2.37		-	0.805	Total HpCDF	ND	1.53	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	25.0 - 164	
13C-1,2,3,7,8-PeCDD	91.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	97.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	95.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	98.8	23.0 - 140	
13C-OCDD	111	17.0 - 157	
13C-2,3,7,8-TCDF	102	24.0 - 169	
13C-1,2,3,7,8-PeCDF	92.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	94.0	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	106	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	101	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	104	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	103	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	105	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	106	26.0 - 138	
13C-OCDF	99.7	17.0 - 157	
Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	97.9	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: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6739-002-SA
Client ID: MW03-042611
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Amount: 1.035 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.902		-	0.215				
1,2,3,7,8-PeCDD	ND	1.35		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.51		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.92		-	0.424	Total TCDD	ND	0.902	
1,2,3,7,8,9-HxCDD	ND	1.66		-	0.367	Total PeCDD	ND	1.35	
1,2,3,4,6,7,8-HpCDD	ND	2.05		-	0.497	Total HxCDD	ND	1.92	
OCDD	ND	2.34		-	1.41	Total HpCDD	ND	2.05	
2,3,7,8-TCDF	ND	0.914		-	0.209				
1,2,3,7,8-PeCDF	ND	1.40		-	0.235				
2,3,4,7,8-PeCDF	ND	1.48		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.04		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.03		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.04		-	0.262				
1,2,3,7,8,9-HxCDF	ND	0.951		-	0.258	Total TCDF	ND	0.914	
1,2,3,4,6,7,8-HpCDF	ND	1.15		-	0.324	Total PeCDF	ND	1.48	
1,2,3,4,7,8,9-HpCDF	ND	1.52		-	0.490	Total HxCDF	ND	1.04	
OCDF	ND	2.51		-	0.805	Total HpCDF	ND	1.52	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	105	25.0 - 164	
13C-1,2,3,7,8-PeCDD	94.5	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	106	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	102	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	108	23.0 - 140	
13C-OCDD	122	17.0 - 157	
13C-2,3,7,8-TCDF	105	24.0 - 169	
13C-1,2,3,7,8-PeCDF	97.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	95.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	112	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	106	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	107	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	107	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	110	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	112	26.0 - 138	
13C-OCDF	106	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	101	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: 5/19/11

Reviewed By: _____
Date: 5/19/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6739-003-SA
Client ID: MW13-042611
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Amount: 1.000 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00268

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.31		-	0.215				
1,2,3,7,8-PeCDD	ND	1.78		-	0.317				
1,2,3,4,7,8-HxCDD	ND	2.29		-	0.326				
1,2,3,6,7,8-HxCDD	ND	2.96		-	0.424	Total TCDD	ND	1.31	
1,2,3,7,8,9-HxCDD	ND	2.53		-	0.367	Total PeCDD	ND	1.78	
1,2,3,4,6,7,8-HpCDD	ND	3.12		-	0.497	Total HxCDD	ND	2.96	
OCDD	8.94	-	J	0.00268	1.41	Total HpCDD	ND	3.12	
2,3,7,8-TCDF	ND	1.01		-	0.209				
1,2,3,7,8-PeCDF	ND	1.50		-	0.235				
2,3,4,7,8-PeCDF	ND	1.56		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.56		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.55		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.54		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.39		-	0.258	Total TCDF	ND	1.01	
1,2,3,4,6,7,8-HpCDF	ND	1.72		-	0.324	Total PeCDF	ND	1.56	
1,2,3,4,7,8,9-HpCDF	ND	2.23		-	0.490	Total HxCDF	ND	1.56	
OCDF	ND	3.04		-	0.805	Total HpCDF	ND	2.23	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	75.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	66.5	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	71.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	67.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	70.1	23.0 - 140	
13C-OCDD	79.0	17.0 - 157	
13C-2,3,7,8-TCDF	74.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	68.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	69.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	73.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	69.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	73.0	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	72.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	72.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	73.3	26.0 - 138	
13C-OCDF	69.0	17.0 - 157	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	74.7	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: 5/19/11

Reviewed By: _____
Date: 5/19/11

5172 Hillsdale Circle • El Dorado Hills, CA 95762 • Tel (916) 934-0900 • Fax (916) 934-0999 • www.frontieranalytical.com

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6739-004-SA
Client ID: MW06-042611
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Amount: 1.035 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-19-2011
2005 WHO TEQ: 0.00200

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.979		-	0.215				
1,2,3,7,8-PeCDD	ND	1.07		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.18		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.48		-	0.424	Total TCDD	ND	0.979	
1,2,3,7,8,9-HxCDD	ND	1.28		-	0.367	Total PeCDD	ND	1.07	
1,2,3,4,6,7,8-HpCDD	ND	1.62		-	0.497	Total HxCDD	ND	1.48	
OCDD	6.65	-	J	0.00200	1.41	Total HpCDD	ND	1.62	
2,3,7,8-TCDF	ND	0.827		-	0.209				
1,2,3,7,8-PeCDF	ND	1.03		-	0.235				
2,3,4,7,8-PeCDF	ND	1.09		-	0.243				
1,2,3,4,7,8-HxCDF	ND	0.773		-	0.255				
1,2,3,6,7,8-HxCDF	ND	0.751		-	0.248				
2,3,4,6,7,8-HxCDF	ND	0.766		-	0.262				
1,2,3,7,8,9-HxCDF	ND	0.655		-	0.258	Total TCDF	ND	0.827	
1,2,3,4,6,7,8-HpCDF	ND	0.749		-	0.324	Total PeCDF	ND	1.09	
1,2,3,4,7,8,9-HpCDF	ND	0.948		-	0.490	Total HxCDF	ND	0.773	
OCDF	ND	2.06		-	0.805	Total HpCDF	ND	0.948	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	109	25.0 - 164	
13C-1,2,3,7,8-PeCDD	110	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	106	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	97.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	111	23.0 - 140	
13C-OCDD	123	17.0 - 157	
13C-2,3,7,8-TCDF	108	24.0 - 169	
13C-1,2,3,7,8-PeCDF	109	24.0 - 185	
13C-2,3,4,7,8-PeCDF	107	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	113	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	105	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	108	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	111	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	116	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	119	26.0 - 138	
13C-OCDF	116	17.0 - 157	
Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	104	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: 5/19/11

Reviewed By: _____
Date: 5/20/11

EPA Method 1613
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 6739-004-MS/MSD
Client ID: MW06-042611
Matrix: Aqueous

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Sample Amount: 1.035 L
MS Amount: 1.031 L
MSD Amount: 1.007 L

ICal: PCDDFAL4-5-17-11
Batch No: X2293
Units: pg/L

MS Acquired: 2011-05-19
MSD Acquired: 2011-05-19
GC Column: DB5

Compound	Amount Spiked (pg)	Sample Amount	MS Amount	MSD Amount	% RSD	Qual
2,3,7,8-TCDD	200	-	207	220	4.14	
1,2,3,7,8-PeCDD	1000	-	1120	1180	3.42	
1,2,3,4,7,8-HxCDD	1000	-	1110	1130	0.00	
1,2,3,6,7,8-HxCDD	1000	-	1110	1130	0.00	
1,2,3,7,8,9-HxCDD	1000	-	1120	1180	3.42	
1,2,3,4,6,7,8-HpCDD	1000	-	1100	1140	1.75	
OCDD	2000	6.65	2110	2140	1.39	
2,3,7,8-TCDF	200	-	211	214	1.39	
1,2,3,7,8-PeCDF	1000	-	1060	1090	0.913	
2,3,4,7,8-PeCDF	1000	-	1100	1100	1.79	
1,2,3,4,7,8-HxCDF	1000	-	1090	1110	0.00	
1,2,3,6,7,8-HxCDF	1000	-	1110	1130	0.00	
2,3,4,6,7,8-HxCDF	1000	-	1100	1130	0.881	
1,2,3,7,8,9-HxCDF	1000	-	1120	1140	0.00	
1,2,3,4,6,7,8-HpCDF	1000	-	1090	1120	0.889	
1,2,3,4,7,8,9-HpCDF	1000	-	1090	1110	0.00	
OCDF	2000	-	2300	2350	0.00	

Internal Standards		% Rec	% Rec	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	2000	109	89.9	96.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	2000	110	89.3	97.5	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	2000	106	82.6	95.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	2000	97.1	75.5	86.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	2000	111	84.1	97.2	23.0 - 140	
13C-OCDD	4000	123	92.5	110	17.0 - 157	
13C-2,3,7,8-TCDF	2000	108	90.4	97.2	24.0 - 169	
13C-1,2,3,7,8-PeCDF	2000	109	89.9	100	24.0 - 185	
13C-2,3,4,7,8-PeCDF	2000	107	90.4	96.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	2000	113	87.9	102	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	2000	105	81.7	93.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	2000	108	83.0	95.4	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	2000	111	83.8	100	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	2000	116	87.1	103	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	2000	119	91.4	106	26.0 - 138	
13C-OCDF	4000	116	85.9	101	17.0 - 157	
Cleanup Surrogate						
37Cl-2,3,7,8-TCDD	800	104	99.5	100	35.0 - 197	

Analyst: _____
Date: 5/19/11

Reviewed By: _____
Date: 5/20/11

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 04/27/11

ANALYTICAL RESOURCES INCORPORATED

6737

ARI Project: ST98

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:
Email Results (Y/N): **email**

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 sucessors, 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, not withstanding 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
11-9409-ST98A	MW02-042611	04/26/11 10:20	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9410-ST98B	MW03-042611	04/26/11 13:25	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9411-ST98C	MW13-042611	04/26/11 14:50	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9412-ST98D	MW06-042611	04/26/11 16:00	Water	4	Dioxin/Furans 1613(Sub)
Special Instructions: MS/MSD					

L4 + EDD

1Z832695014992479
1Z832695014258382

Carrier UPS	Airbill 1Z832695014933 4999		Date 4/28/11
Relinquished by Mirka Mulumba	Company ARI	Date 4/28/11	Time 1506
Received by Tony Crabtree	Company Frontier	Date 4/29/11	Time 10:20AM

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6739**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	ST98
Date Received:	04/29/2011
Time Received:	10:40 am
Received By:	TC
Logged In By:	GN
# of Samples Received:	4
Duplicates:	4
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950149334999
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	04/25/2012
Adequate Sample Volume	Yes
pH Range	Between 4 and 9
Anomalies or additional comments:	
L4 & EDD	


Project: POS-LLA
Site LLA
Sampler KA, AM
11-9409 ST98B#15
MW02-042611
VTSR: 4/26/11
Water
Disp Met: 07/09/11
Disp D/C: 07/09/11
Frontier Analytical Laboratory
6739-001-SA
Client ID: MW02-042611
Storage: R1 (01 of 02)
Project: POS-LLA
Site LLA
Sampler KA AM
11-9410 ST98B#15
MW03-042611
VTSR: 4/26/11
Water
Disp Met: 07/09/11
Disp D/C: 07/09/11
Frontier Analytical Laboratory
6739-002-SA
Client ID: MW03-042611
Storage: R1 (01 of 02)
6739-003-SA
Client ID: MW13-042611
Storage: R1 (01 of 02)
Project: POS-LLA
Site LLA
Sampler KA, AM
11-9411 ST98C#15
MW13-042611
VTSR: 4/26/11
Water
Disp Met: 07/09/11
Disp D/C: 07/09/11


6739-004-SA
6739-004-MS
6739-004-MSD

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #: 6739 Sample #: 1 - 4 MS/MSD Client Manager: BS

Client: Analytical Resources Inc. Sue Dunnihoo Hold Time: 04/25/2012

Matrix: Aqueous Extraction Batch: 2293 Due Date: 05/23/2011

Method: EPA 1613 D/F Storage: R1

SOP: SOPs: EP2A Rev.9 IP2A Rev.10

COMMENTS/INSTRUCTIONS:

-No cap-

Sample	~~Full Weight (g)~~ 4/17/11 JN	~~Empty~~ Full Weight (g) 5/17/11 JN	Empty weights
6739-001-0001-SA		1495.95	494.33
6739-002-0001-SA		1527.04	492.21
6739-003-0001-SA		1493.55	493.24
6739-004-0001-SA		1528.94	494.37
6739-004-0002-MS		1524.64	493.31
6739-004-0002-MSD		1501.35	494.02

Results: 6739

Instrument:
DB5 FAL-4
DB225 _____
DB1 _____
Other _____

Extract/s located in box: "Transisters"

Standards: 6739

Frontier Analytical Laboratory
Percent Solids

FAL Project: 6739

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv
6739-001-0001-SA	DN	5.17.11	17.32	0.00	0%	—
6739-002-0001-SA	↓	↓	16.85	0.00	0%	—
6739-003-0001-SA			18.22	0.00	0%	—
6739-004-0001-SA			17.51	0.00	0%	—
6739-004-0002-MSD			15.62	0.00	0%	—
6739-004-0002-MS			16.03	0.00	0%	—

1.33
1.32
1.33
1.32
1.32
1.32

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

% Solids calculation

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 6739 Extraction Date: 2011-05-17 Extraction Chemist: DV

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: 100511A Vial: 6 Chemist/Witness/Date	NS Amt: 10.0uL ID: 100511B Vial: 6 Chemist/Witness/Date	CSS Amt: 10.0uL ID: 100511C Vial: 6 Chemist/Witness/Date
2293-001-0001-MB	(1.000L)	N/A	DN GN 5/17/11	N/A	DN GN 5.18.11
2293-001-0001-OPR	(1.000 L)	↓	↓	DN GN 5/17/11	↓
6739-001-0001-SA	1.002L	↓	↓	N/A	↓
6739-002-0001-SA	1.035L	↓	↓	↓	↓
6739-003-0001-SA	1.000L	↓	↓	↓	↓
6739-004-0001-SA	1.035L	↓	↓	↓	↓
6739-004-0002-MS	1.031L	↓	↓	DN GN 5/17/11	↓
6739-004-0002-MSD	1.007L	↓	↓	↓	↓

AX-21 Charcoal Cleaned	082510	Acetone	107203	Acid Alumina	A0281479	Hexane	110182
Hydrochloric Acid	B08505	Methanol	108367	Methylene Chloride (DCM)	51020	Silica Gel	TA1592834
Sodium Hydroxide	0062836	Sodium Sulfate	1750C277	Sulfuric Acid	110205	Tetradecane	086237
Toluene	108273	Water	51004	C-18 Empore Discs	320552	Cyclohexane	50204

Comments:

Frontier Analytical Laboratory

CLEANUP SHEET

Project #: 6739

Method/Analysis: EPA 1613 D/F

Splits: 0 Split Date: N/A Final Volume: 20.0uL

Sample ID	Cleanup 1 MSG·AA Chemist/Date	Cleanup 2 N/A Chemist/Date	Cleanup 3 N/A Chemist/Date	RS Amt: 10.0uL ID: 100511D Vial: 8 Chemist/Witness/Date
2293-001-0001-MB	DN 5·18·11	N/A	N/A	DN 5·18·11
2293-001-0001-OPR	↓	↓	↓	↓
6739-001-0001-SA				
6739-002-0001-SA				
6739-003-0001-SA				
6739-004-0001-SA				
6739-004-0002-MS				
6739-004-0002-MSD				

Comments:

FAL ID: 2293-001-0001-MB Filename: 18MAY11Z Sam:4 Acquired: 18-MAY-11 15:01:08 ICal: PCDDFAL4-5-17-11
Client ID: Method Blank ConCal: ST051811Z1 EndCal: ST051811Z2
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 0.00
WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00

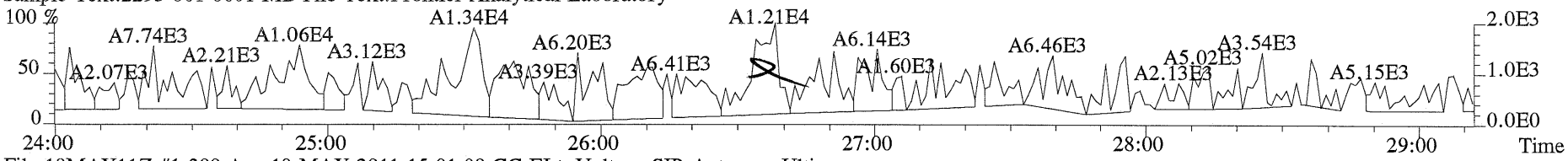
Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.15	*		2.50	608	754	0.866
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.02	*		2.50	571	275	0.894
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.09	*		2.50	545	525	1.19
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.08	*		2.50	545	525	1.50
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.12	*		2.50	545	525	1.30
1,2,3,4,6,7,8-HpCDD	*	*	n	NotFnd	1.03	*		2.50	590	472	2.13
OCDD	*	*	n	NotFnd	1.21	*		2.50	345	558	2.71
2,3,7,8-TCDF	*	*	n	NotFnd	1.09	*		2.50	554	1010	0.712
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.96	*		2.50	514	1140	1.26
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.96	*		2.50	514	1140	1.27
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.18	*		2.50	534	376	0.892
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	1.03	*		2.50	534	376	0.849
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.17	*		2.50	534	376	0.831
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.27	*		2.50	534	376	0.768
1,2,3,4,6,7,8-HpCDF	*	*	n	NotFnd	1.36	*		2.50	466	438	1.09
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.35	*		2.50	466	438	1.39
OCDF	*	*	n	NotFnd	0.97	*		2.50	340	605	2.46

						Rec
13C-2,3,7,8-TCDD	3.13e+07	0.80	y	27:24	0.99	1960	98.2
13C-1,2,3,7,8-PeCDD	2.29e+07	1.59	y	33:14	0.79	1790	89.7
13C-1,2,3,4,7,8-HxCDD	2.04e+07	1.27	y	38:36	1.03	1920	96.1
13C-1,2,3,6,7,8-HxCDD	1.81e+07	1.28	y	38:46	0.96	1840	92.0
13C-1,2,3,4,6,7,8-HpCDD	1.45e+07	1.07	y	44:10	0.75	1890	94.4
13C-OCDD	2.07e+07	0.92	y	49:42	0.50	3990	99.8
13C-2,3,7,8-TCDF	4.57e+07	0.80	y	26:38	0.98	1970	98.3
13C-1,2,3,7,8-PeCDF	3.18e+07	1.61	y	31:32	0.78	1730	86.4
13C-2,3,4,7,8-PeCDF	3.23e+07	1.58	y	32:50	0.75	1810	90.3
13C-1,2,3,4,7,8-HxCDF	2.19e+07	0.52	y	37:12	1.05	2020	101
13C-1,2,3,6,7,8-HxCDF	2.85e+07	0.52	y	37:24	1.40	1980	98.8
13C-2,3,4,6,7,8-HxCDF	2.43e+07	0.52	y	38:21	1.16	2040	102
13C-1,2,3,7,8,9-HxCDF	2.64e+07	0.52	y	39:47	1.30	1970	98.6
13C-1,2,3,4,6,7,8-HpCDF	1.70e+07	0.45	y	42:17	0.83	2000	100.0
13C-1,2,3,4,7,8,9-HpCDF	1.42e+07	0.46	y	45:05	0.69	1980	99.2
13C-OCDF	2.95e+07	0.88	y	50:04	0.77	3720	93.0
37Cl-2,3,7,8-TCDD	9.06e+06			27:25	0.71	792	99.0
13C-1,2,3,4-TCDD	3.22e+07	0.81	y	26:49	-	60.3	
13C-1,2,3,4-TCDF	4.75e+07	0.79	y	25:31	-	63.4	
13C-1,2,3,7,8,9-HxCDD	2.06e+07	1.27	y	39:12	-	53.3	

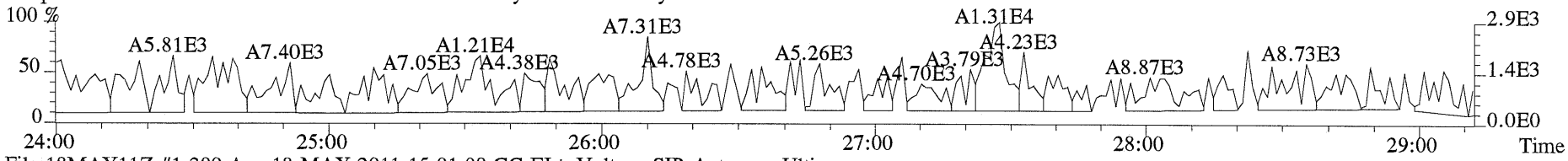
					Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*		NotFnd	1.15	*	2.50	608	754	0.866		0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	571	275	0.894		0
Total Hexa-Dioxins	*		NotFnd	1.10	*	2.50	545	525	1.50		0
Total Hepta-Dioxins	*		NotFnd	1.03	*	2.50	590	472	2.13		0
Total Tetra-Furans	*		NotFnd	1.09	*	2.50	554	1010	0.712		0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*	2.50	514	1140	1.27	PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*	2.50	514	1140	1.27	0.00	0
Total Hexa-Furans	*		NotFnd	1.16	*	2.50	534	376	0.892		0
Total Hepta-Furans	*		NotFnd	1.36	*	2.50	466	438	1.39		0

Analyst: _____ Date: 5/19/11

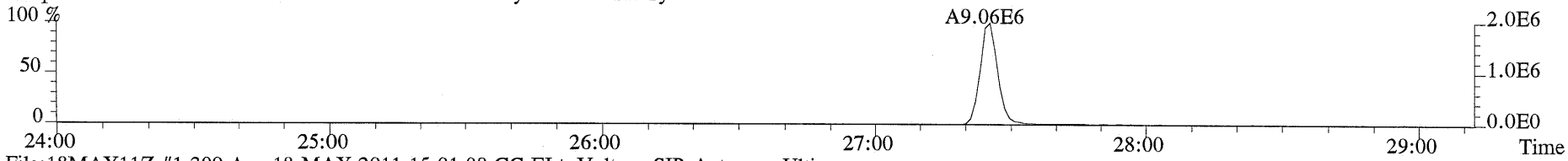
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



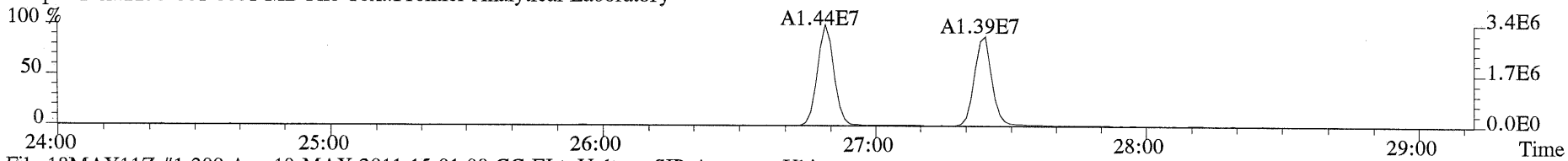
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



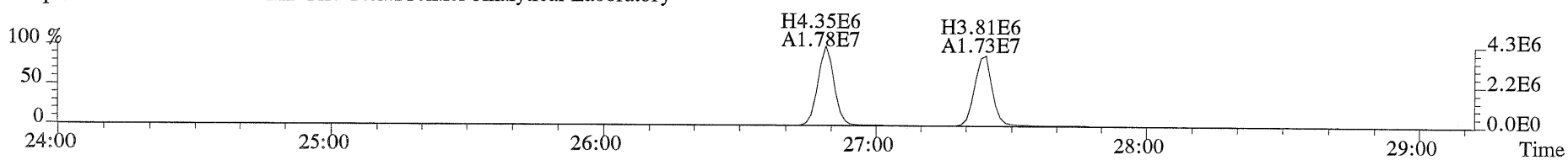
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



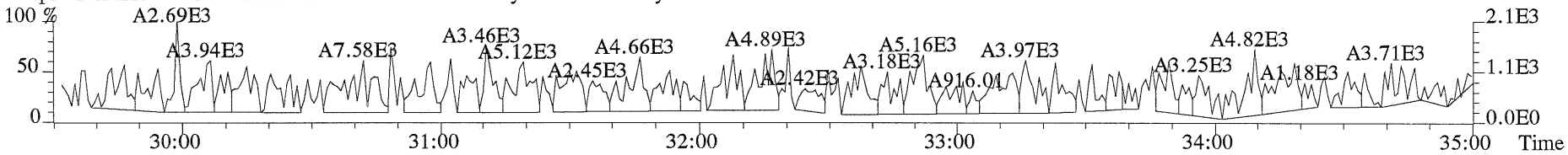
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



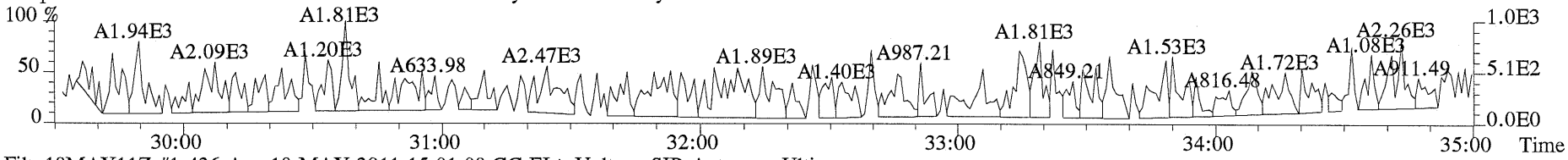
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



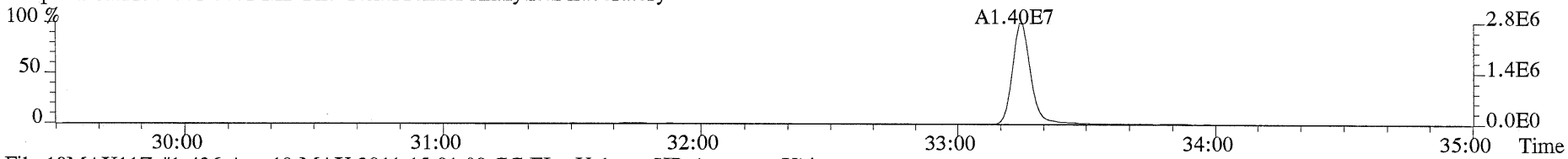
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



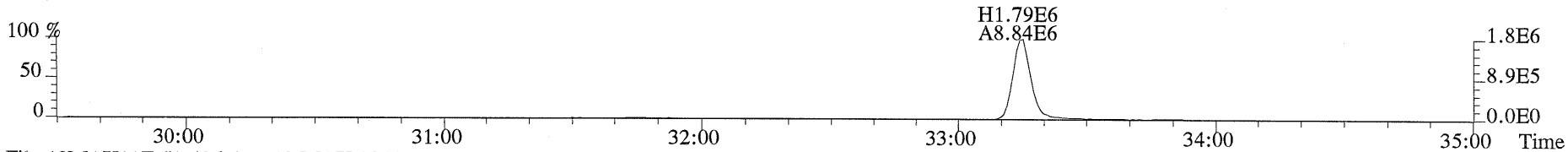
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



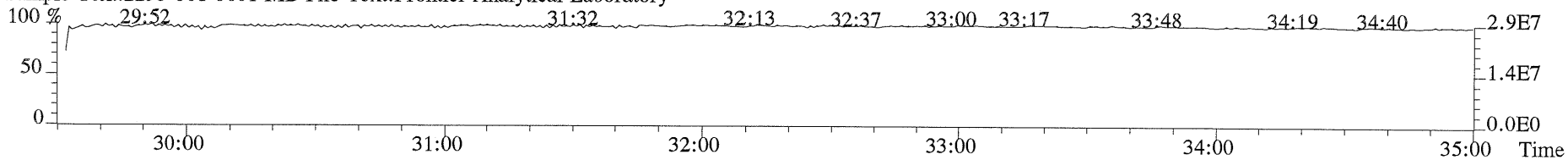
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



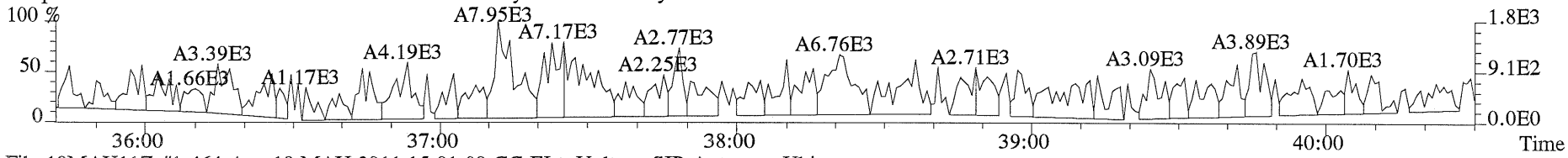
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



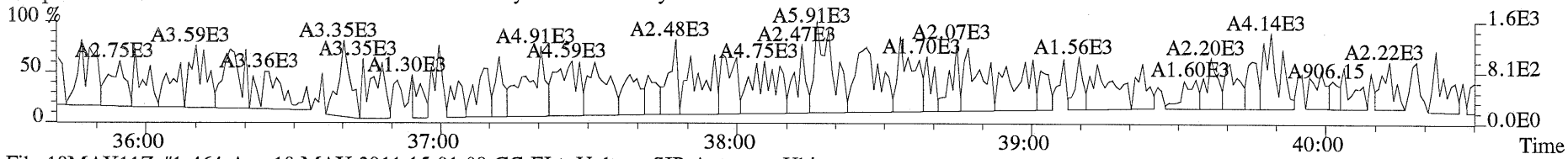
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



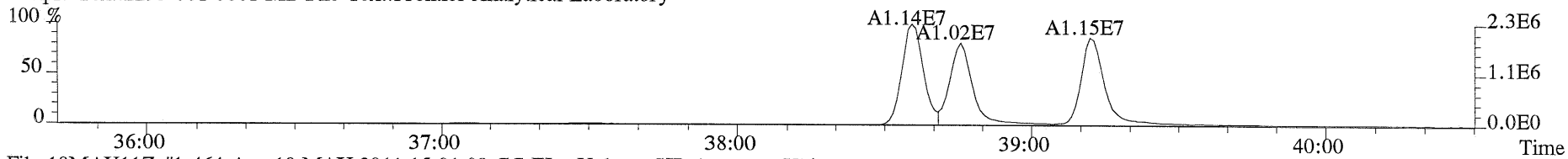
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



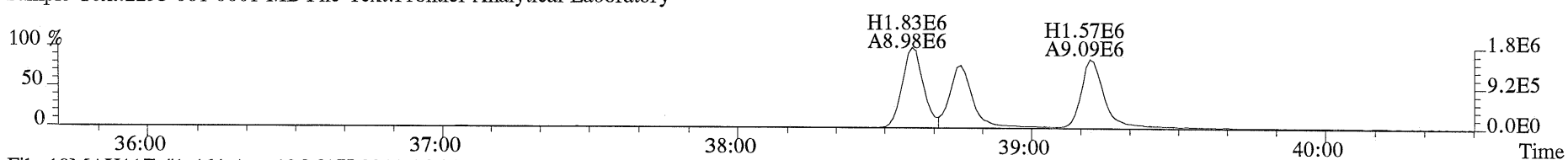
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



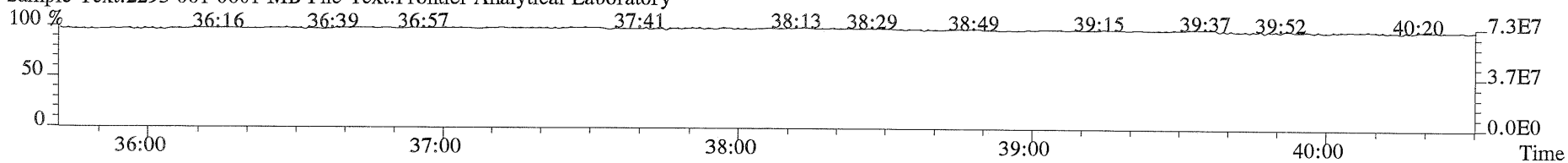
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



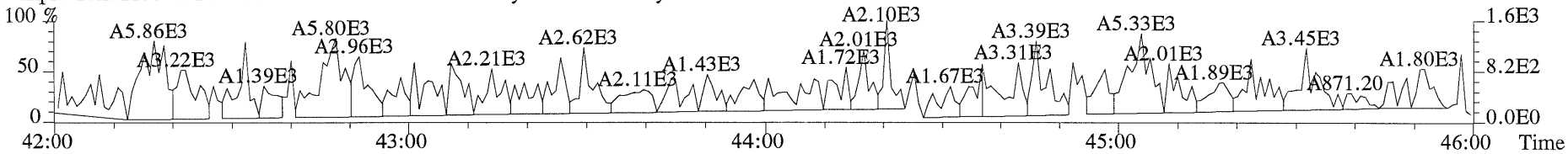
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



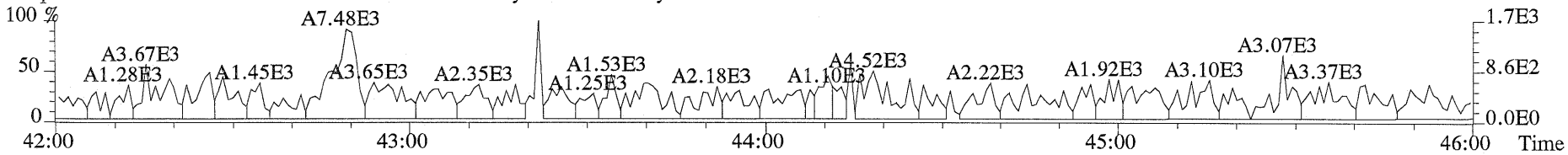
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:4 F:3 Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



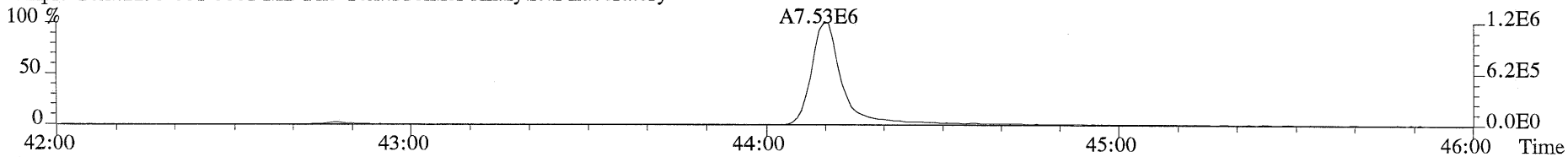
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



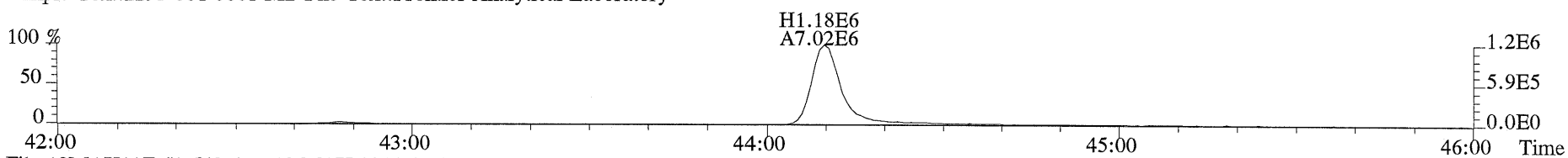
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



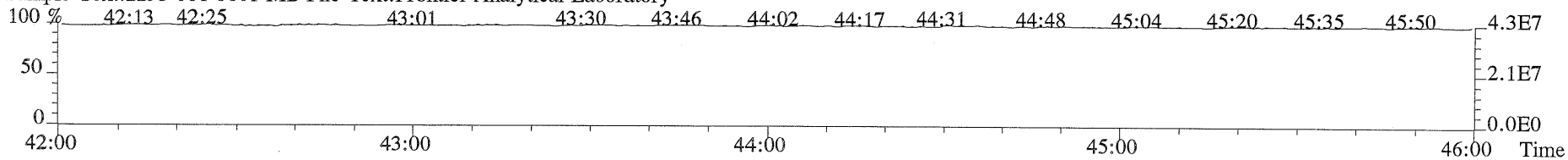
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



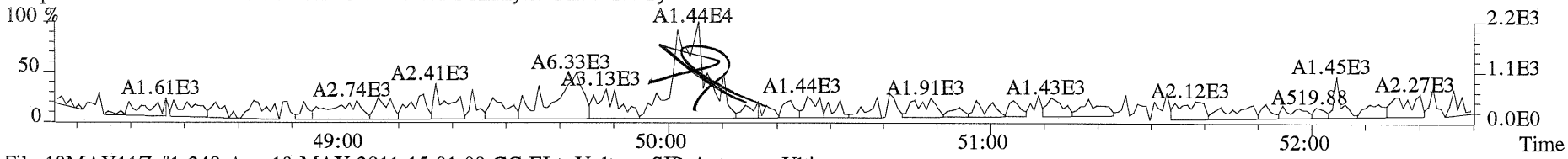
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



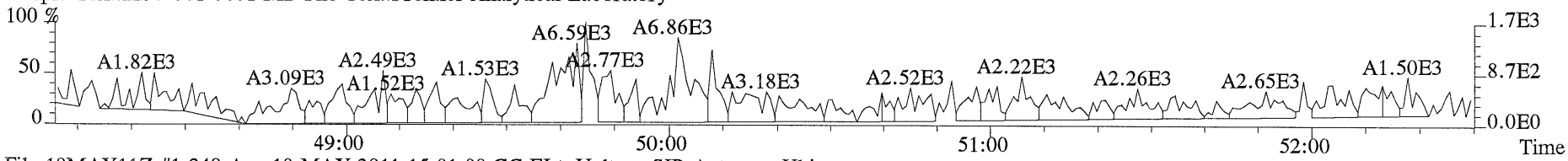
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



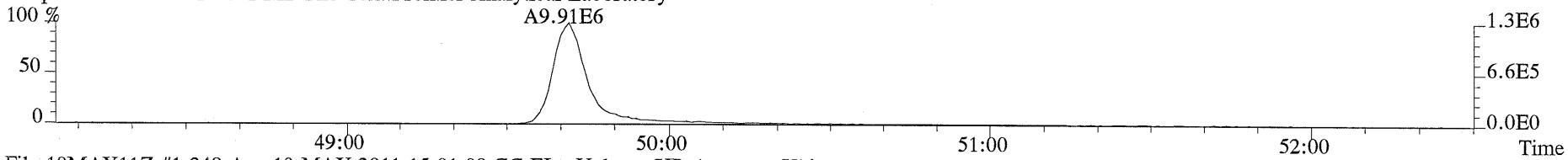
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



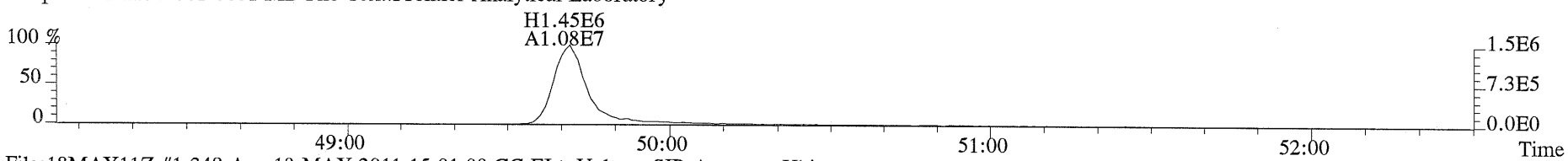
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



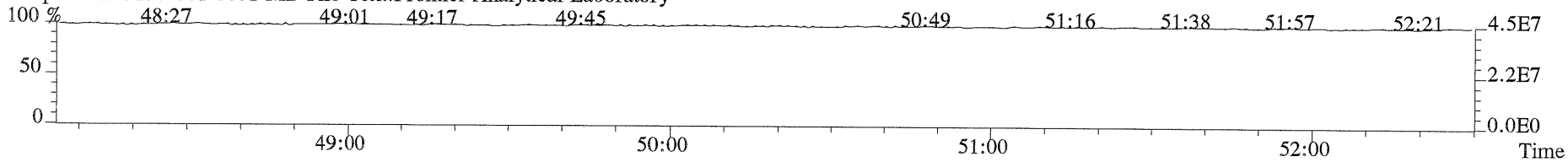
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



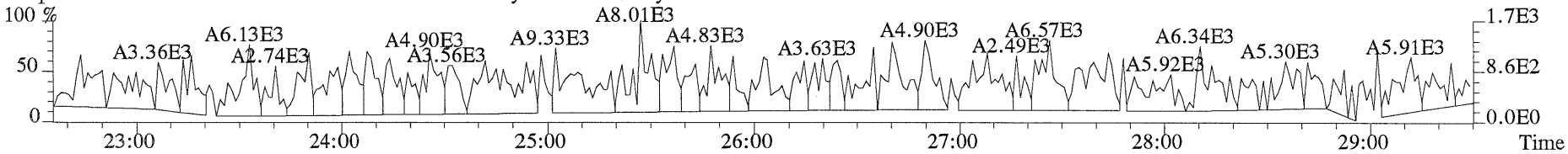
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



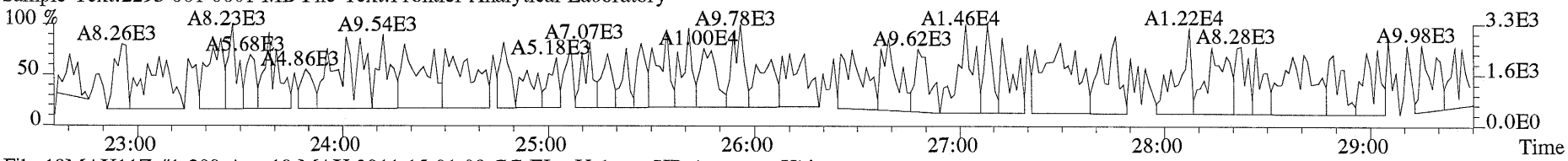
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



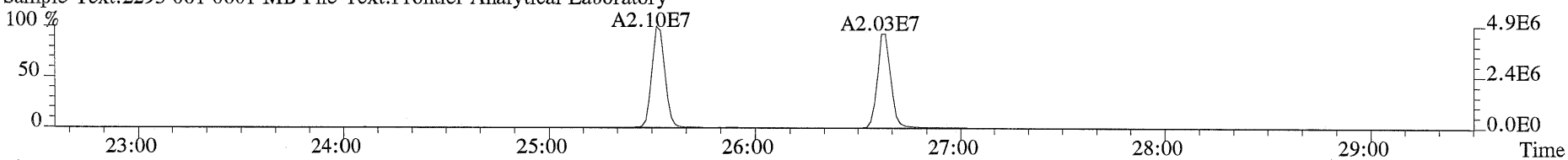
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



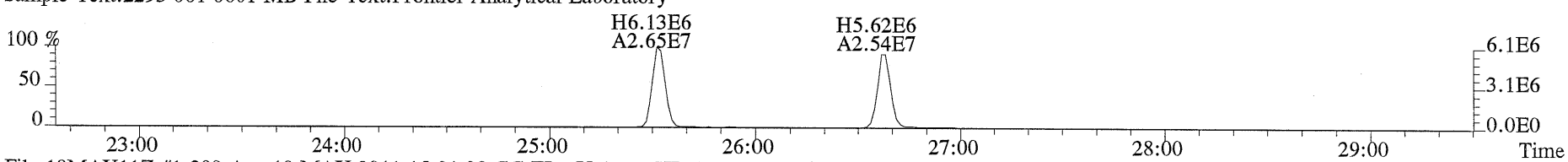
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



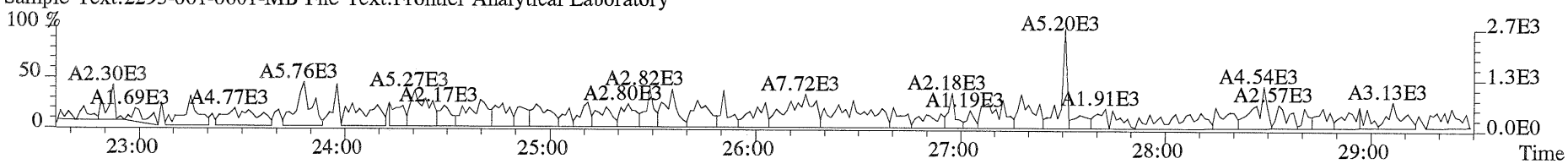
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



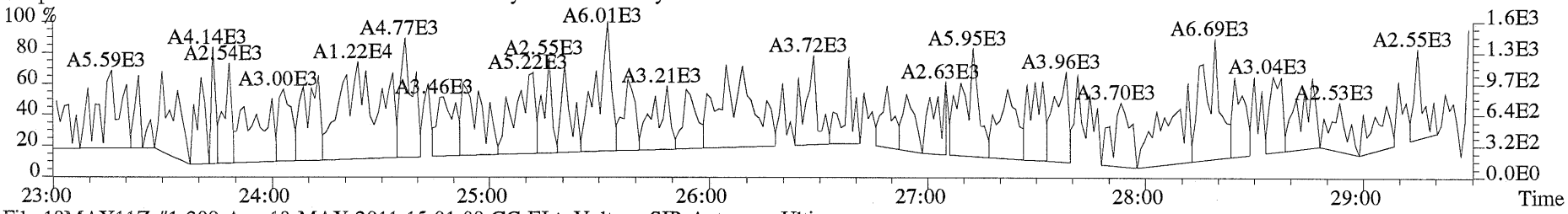
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



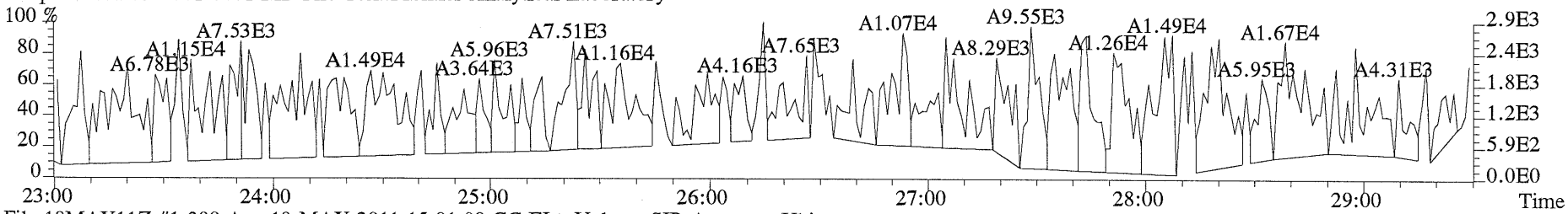
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



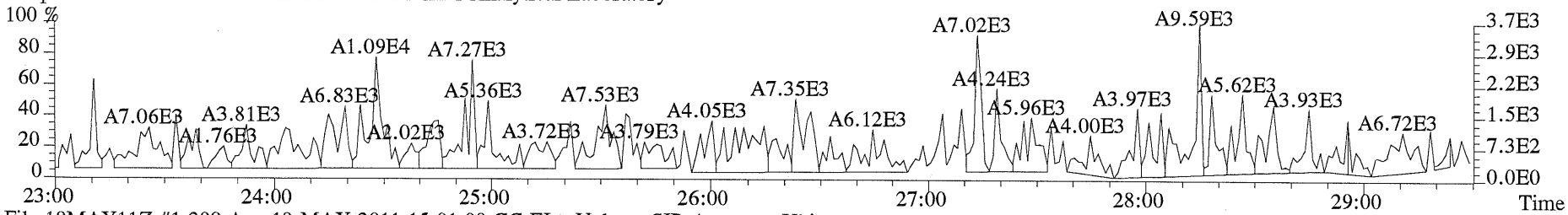
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



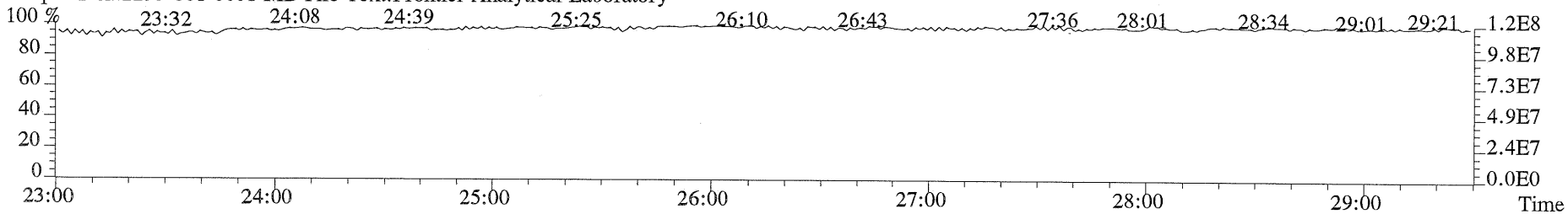
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



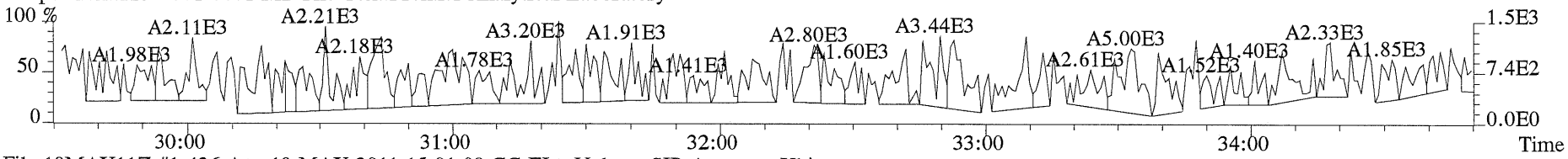
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



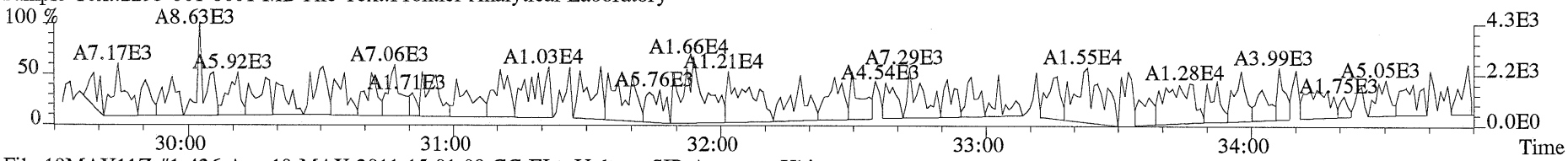
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:4 Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



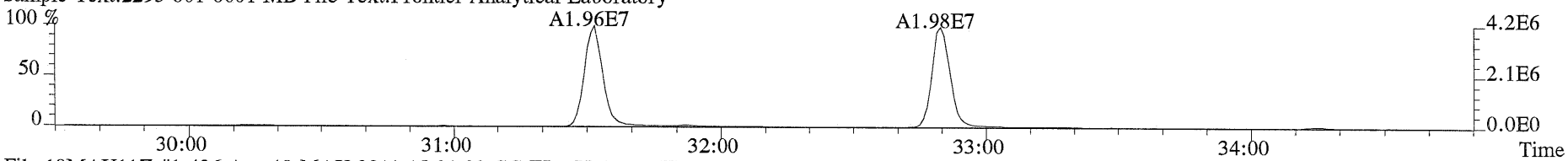
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



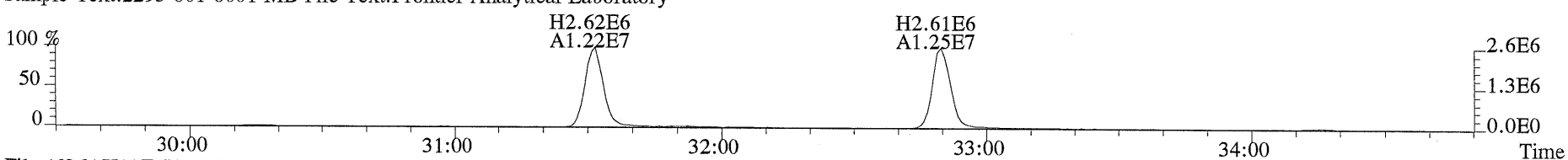
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



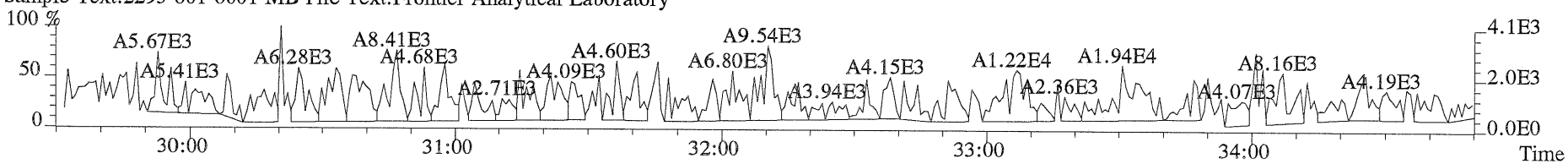
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



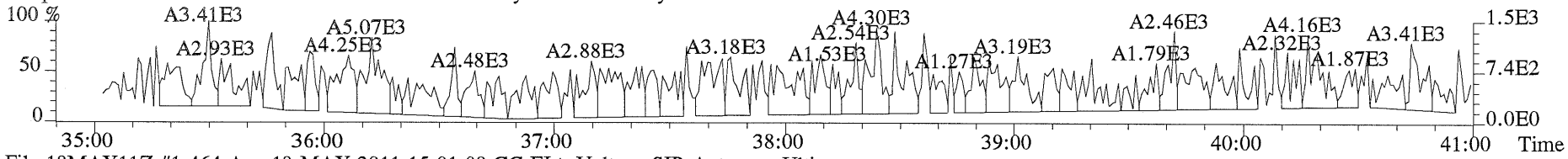
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



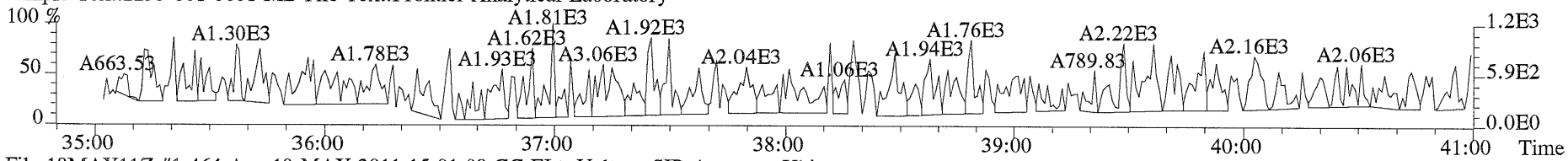
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



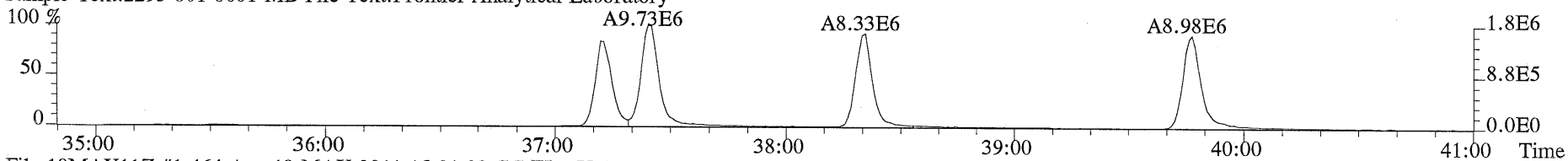
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



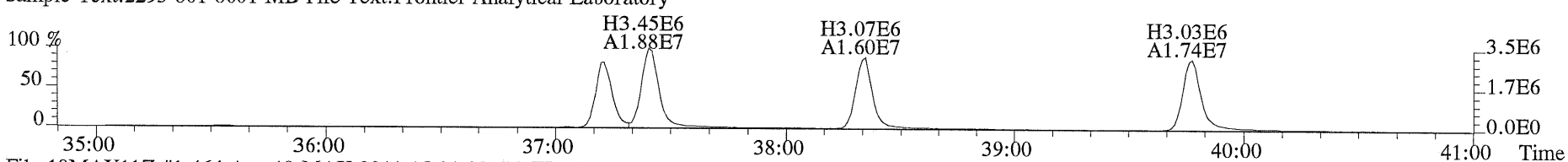
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



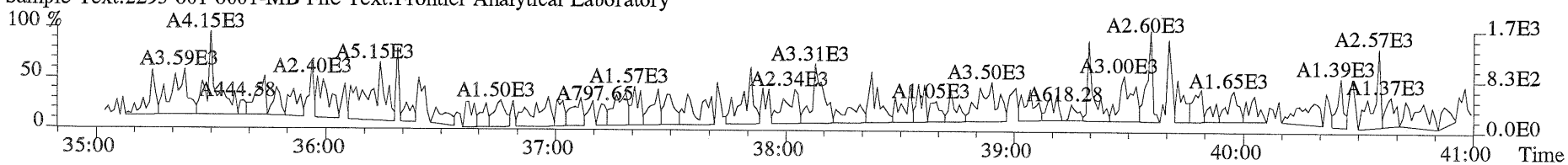
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



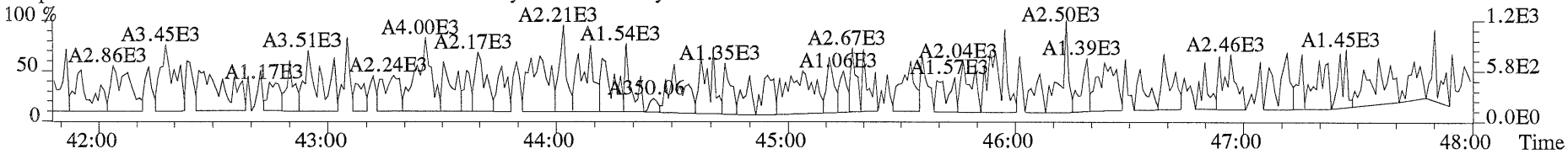
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



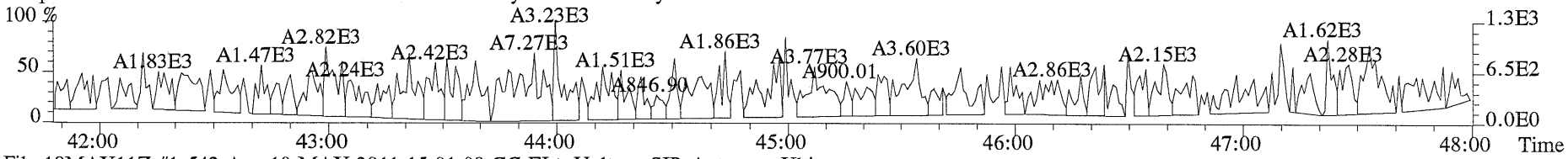
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



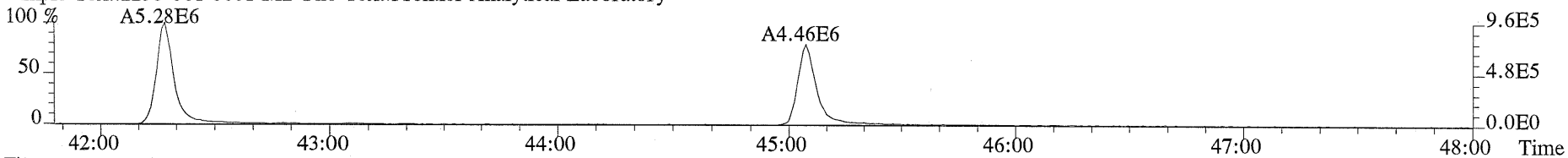
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



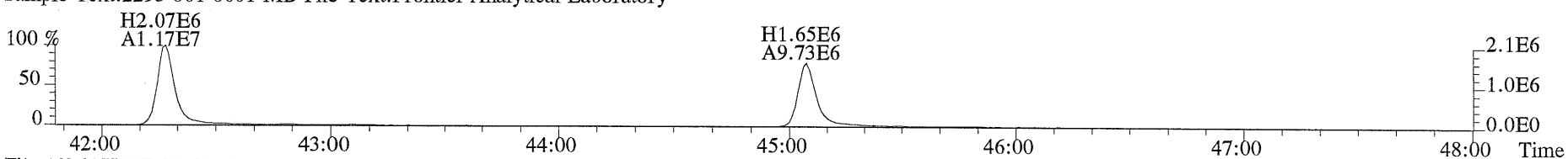
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



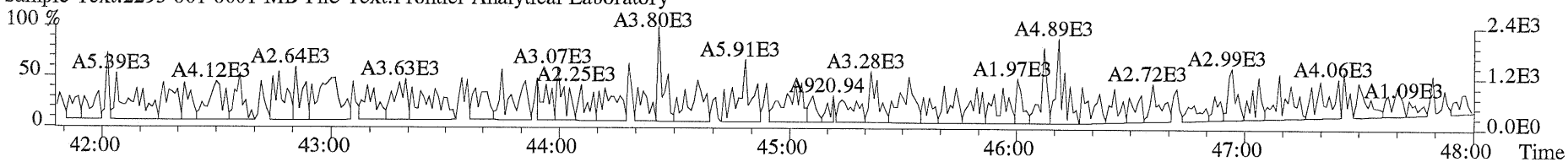
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



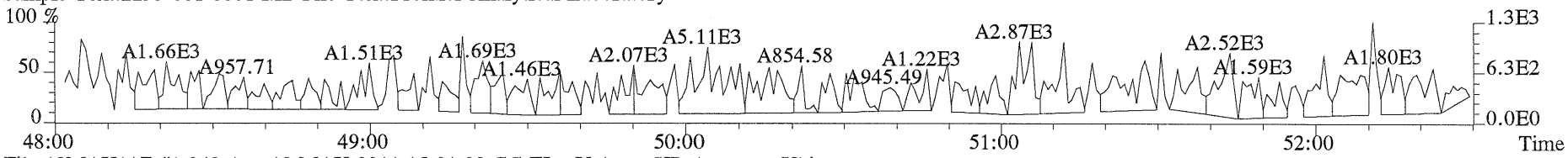
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



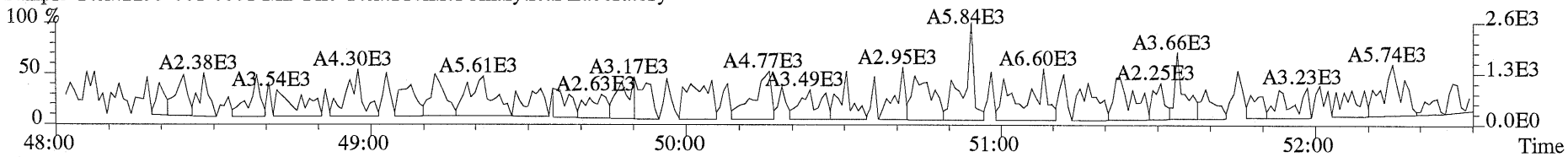
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



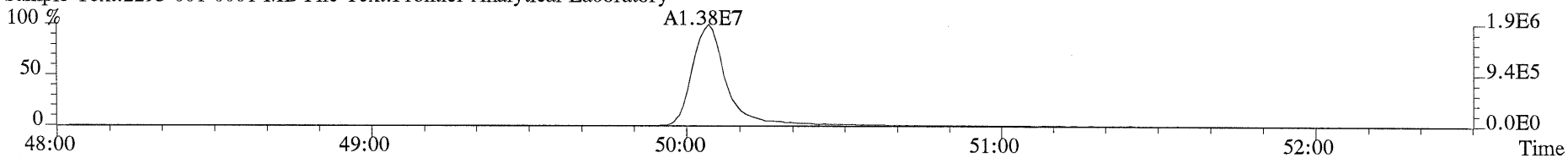
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



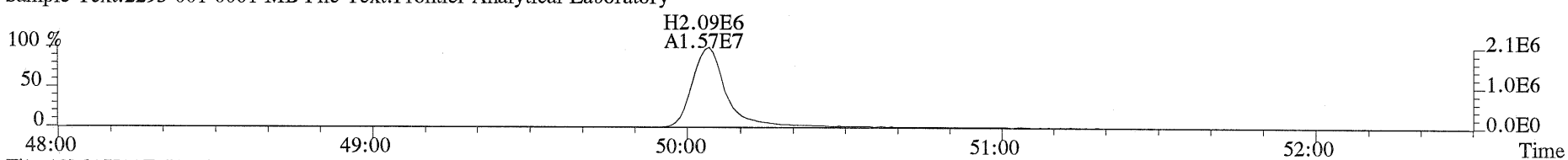
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



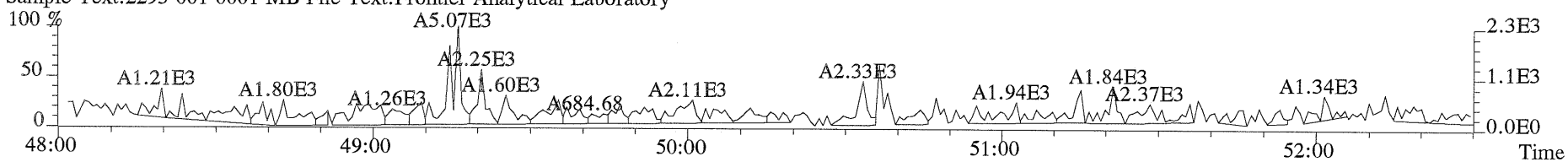
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



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: 18MAY11Z Sam:3

Ext. Date: 5/17/11 Shift: Day Analysis Date: 18-MAY-11 14:06:21

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	10.3	6.70 - 15.8
1,2,3,7,8-PeCDD	50	56.8	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	56.2	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	56.9	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	58.0	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	58.8	35.0 - 70.0
OCDD	100	111	78.0 - 144
2,3,7,8-TCDF	10	10.7	7.50 - 15.8
1,2,3,7,8-PeCDF	50	57.4	40.0 - 67.0
2,3,4,7,8-PeCDF	50	57.2	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	56.1	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	56.9	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	57.7	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	58.1	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	56.8	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	56.2	39.0 - 69.0
OCDF	100	119	63.0 - 170

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613

Analyst: _____ Date: 5/19/11

USEPA - ITD

FORM 8B
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: 18MAY11Z Sam:3

Ext. Date: 5/17/11 Shift: Day Analysis Date: 18-MAY-11 14:06:21

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	100	95.7	20.0 - 175
13C-1,2,3,7,8-PeCDD	100	80.4	21.0 - 227
13C-1,2,3,4,7,8-HxCDD	100	84.0	21.0 - 193
13C-1,2,3,6,7,8-HxCDD	100	78.7	25.0 - 163
13C-1,2,3,4,6,7,8-HpCDD	100	76.6	26.0 - 166
13C-OCDD	200	162	26.0 - 397
13C-2,3,7,8-TCDF	100	96.9	22.0 - 152
13C-1,2,3,7,8-PeCDF	100	84.6	21.0 - 192
13C-2,3,4,7,8-PeCDF	100	88.1	13.0 - 328
13C-1,2,3,4,7,8-HxCDF	100	88.1	19.0 - 202
13C-1,2,3,6,7,8-HxCDF	100	86.4	21.0 - 159
13C-2,3,4,6,7,8-HxCDF	100	88.8	22.0 - 176
13C-1,2,3,7,8,9-HxCDF	100	84.1	17.0 - 205
13C-1,2,3,4,6,7,8-HpCDF	100	81.4	21.0 - 158
13C-1,2,3,4,7,8,9-HpCDF	100	81.0	20.0 - 186
13C-OCDF	200	156	26.0 - 397
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	40.1	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613
Labeled compound concentration limits are based on required percent recovery of 25%-150%.

Analyst: _____ Date: 5/19/11

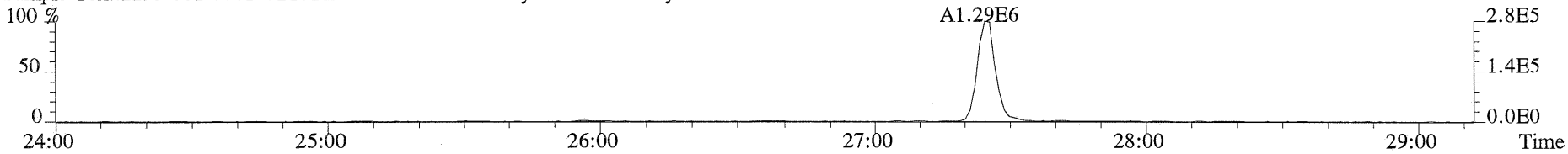
FAL ID: 2293-001-0001-OPR Filename: 18MAY11Z Sam:3 Acquired: 18-MAY-11 14:06:21 ICal: PCDDFAL4-5-17-11
Client ID: OPR ConCal: ST051811Z1 EndCal: ST051811Z2
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 113
WHO 1998 Tox: 141 WHO 2005 Tox: 129

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	2.92e+06	0.80 y	27:24	1.15	10.3		2.50	-	-	*
1,2,3,7,8-PeCDD	9.67e+06	1.56 y	33:16	1.02	56.8		2.50	-	-	*
1,2,3,4,7,8-HxCDD	8.60e+06	1.26 y	38:36	1.09	56.2		2.50	-	-	*
1,2,3,6,7,8-HxCDD	7.55e+06	1.25 y	38:46	1.08	56.9		2.50	-	-	*
1,2,3,7,8,9-HxCDD	8.53e+06	1.27 y	39:13	1.12	58.0		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	5.65e+06	1.03 y	44:11	1.03	58.8		2.50	-	-	*
OCDD	8.87e+06	0.88 y	49:42	1.21	111		2.50	-	-	*
2,3,7,8-TCDF	4.01e+06	0.77 y	26:38	1.09	10.7		2.50	-	-	*
1,2,3,7,8-PeCDF	1.32e+07	1.57 y	31:33	0.96	57.4		2.50	-	-	*
2,3,4,7,8-PeCDF	1.33e+07	1.58 y	32:51	0.96	57.2		2.50	-	-	*
1,2,3,4,7,8-HxCDF	1.00e+07	1.25 y	37:14	1.18	56.1		2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.16e+07	1.25 y	37:25	1.03	56.9		2.50	-	-	*
2,3,4,6,7,8-HxCDF	1.13e+07	1.25 y	38:22	1.17	57.7		2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.31e+07	1.24 y	39:48	1.27	58.1		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	8.46e+06	1.04 y	42:18	1.36	56.8		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	6.92e+06	1.03 y	45:06	1.35	56.2		2.50	-	-	*
OCDF	1.12e+07	0.89 y	50:05	0.97	119		2.50	-	-	*
										Rec
13C-2,3,7,8-TCDD	2.48e+07	0.80 y	27:23	0.99	95.7					95.7
13C-1,2,3,7,8-PeCDD	1.67e+07	1.58 y	33:15	0.79	80.4					80.4
13C-1,2,3,4,7,8-HxCDD	1.41e+07	1.29 y	38:36	1.03	84.0					84.0
13C-1,2,3,6,7,8-HxCDD	1.22e+07	1.23 y	38:45	0.96	78.7					78.7
13C-1,2,3,4,6,7,8-HpCDD	9.31e+06	1.05 y	44:10	0.75	76.6					76.6
13C-OCDD	1.33e+07	0.92 y	49:41	0.50	162					81.1
13C-2,3,7,8-TCDF	3.46e+07	0.80 y	26:37	0.98	96.9					96.9
13C-1,2,3,7,8-PeCDF	2.39e+07	1.60 y	31:31	0.78	84.6					84.6
13C-2,3,4,7,8-PeCDF	2.41e+07	1.61 y	32:50	0.75	88.1					88.1
13C-1,2,3,4,7,8-HxCDF	1.51e+07	0.53 y	37:13	1.05	88.1					88.1
13C-1,2,3,6,7,8-HxCDF	1.97e+07	0.51 y	37:24	1.40	86.4					86.4
13C-2,3,4,6,7,8-HxCDF	1.67e+07	0.52 y	38:20	1.16	88.8					88.8
13C-1,2,3,7,8,9-HxCDF	1.78e+07	0.52 y	39:46	1.30	84.1					84.1
13C-1,2,3,4,6,7,8-HpCDF	1.09e+07	0.45 y	42:17	0.83	81.4					81.4
13C-1,2,3,4,7,8,9-HpCDF	9.14e+06	0.45 y	45:05	0.69	81.0					81.0
13C-OCDF	1.95e+07	0.89 y	50:03	0.77	156					77.8
37Cl-2,3,7,8-TCDD	7.46e+06		27:24	0.71	40.1					100
13C-1,2,3,4-TCDD	2.62e+07	0.81 y	26:49	-	49.1					
13C-1,2,3,4-TCDF	3.64e+07	0.80 y	25:32	-	48.7					
13C-1,2,3,7,8,9-HxCDD	1.63e+07	1.29 y	39:12	-	42.1					

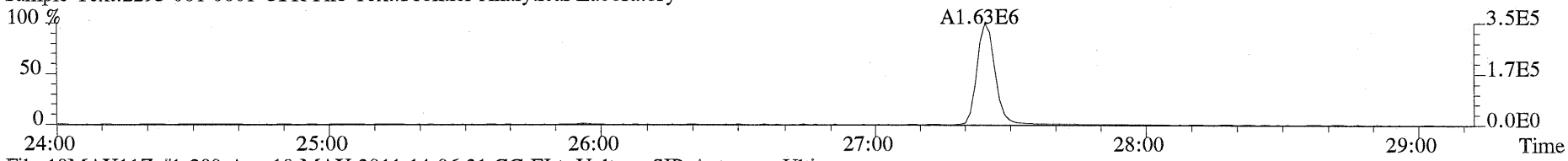
							Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	3.18e+06		23:01	1.15	11.2		2.50	-	-	*		25
Total Penta-Dioxins	9.91e+06		31:30	1.02	58.2		2.50	-	-	*		11
Total Hexa-Dioxins	2.50e+07		38:36	1.10	174		2.50	-	-	*		15
Total Hepta-Dioxins	5.94e+06		42:50	1.03	61.8		2.50	-	-	*		27
Total Tetra-Furans	4.42e+06		22:59	1.09	11.8		2.50	-	-	*		27
1st Fn. Tot Penta-Furans	2.16e+05		22:46	0.96	0.934		2.50	-	-	*	PeCDF	27
Total Penta-Furans	2.74e+07		30:17	0.96	118		2.50	-	-	*	119	14
Total Hexa-Furans	4.62e+07		35:17	1.16	230		2.50	-	-	*		9
Total Hepta-Furans	1.60e+07		42:18	1.36	117		2.50	-	-	*		25

Analyst: _____ Date: 5/19/11

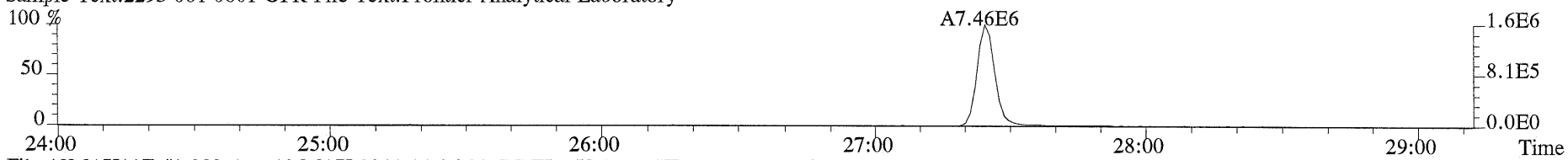
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



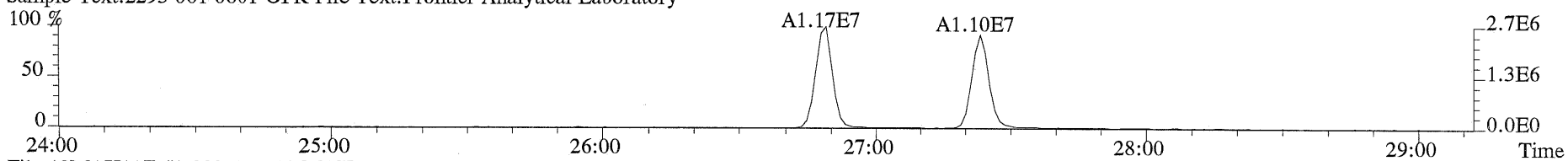
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



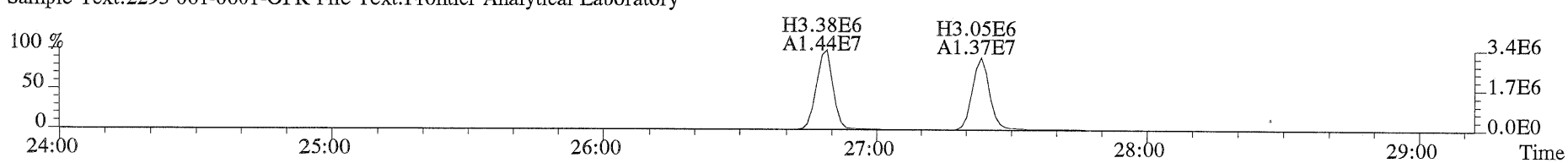
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



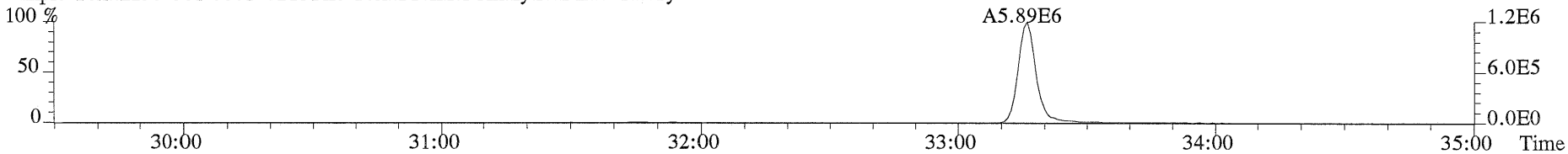
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



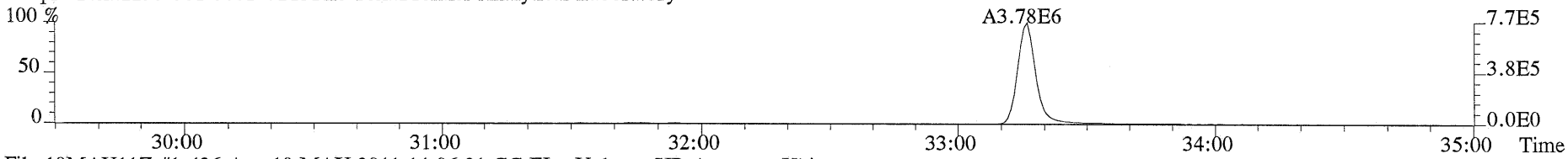
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



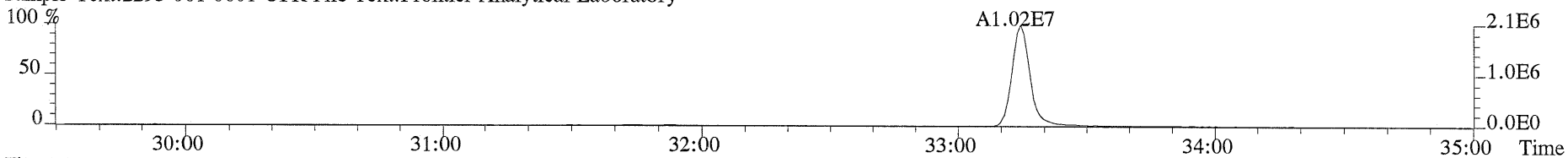
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



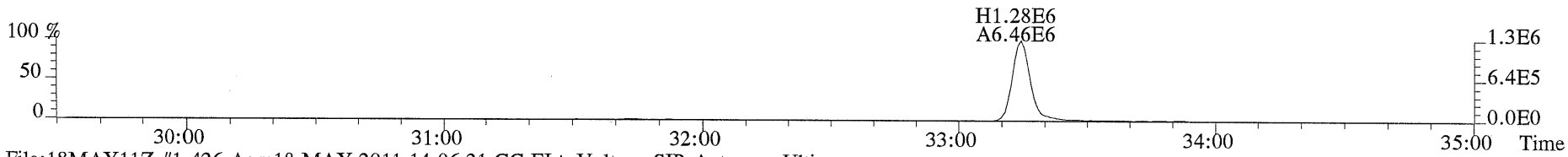
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



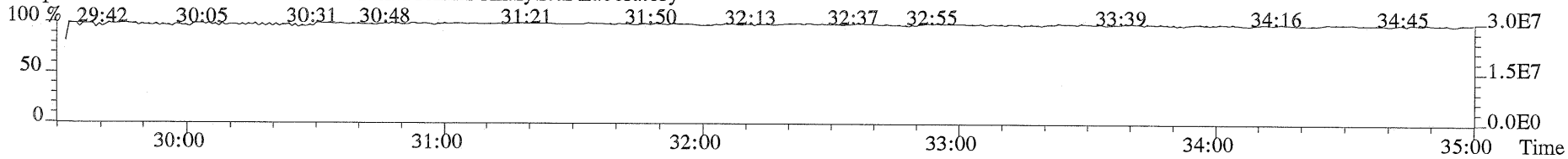
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



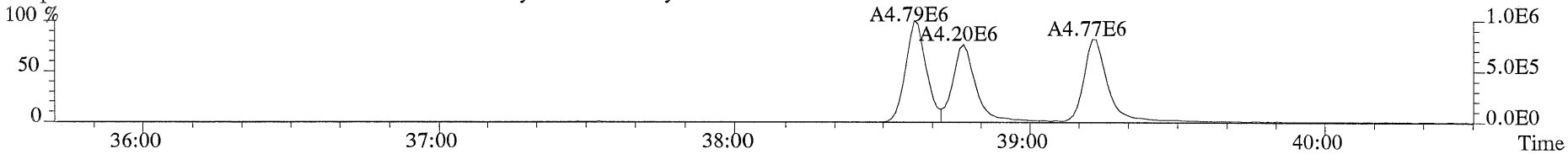
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



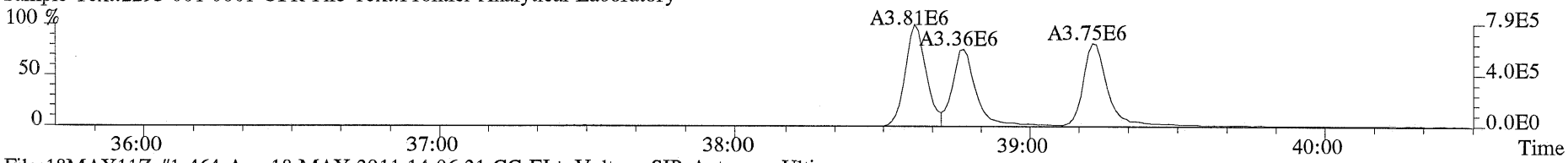
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:3 F:2 Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



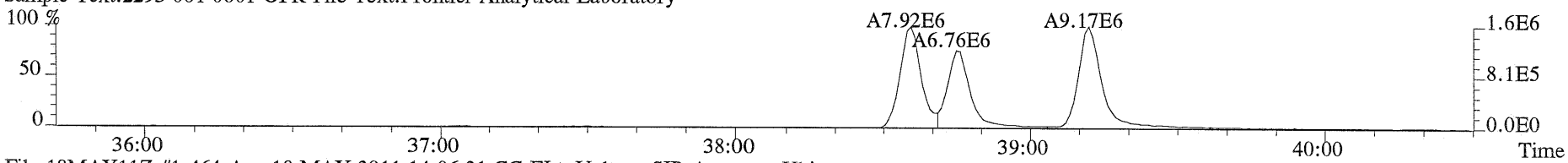
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



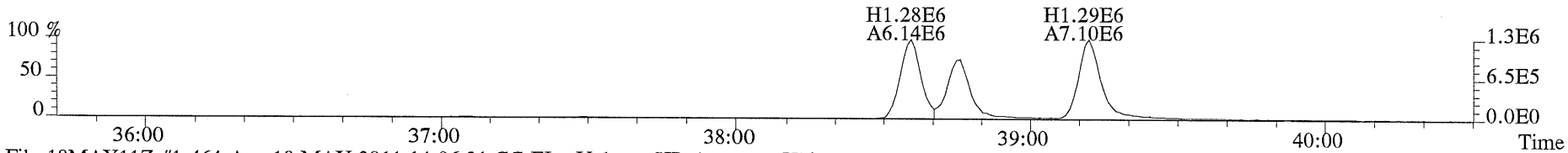
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



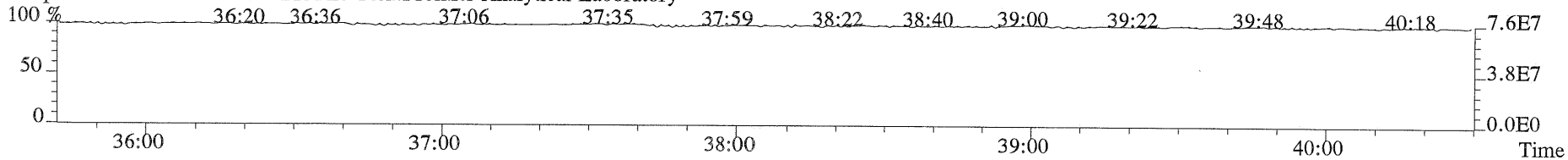
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



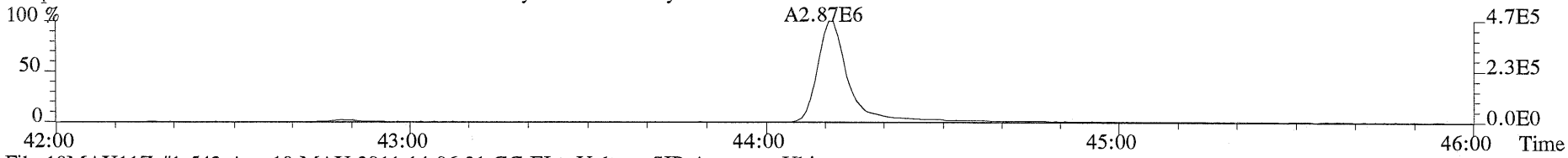
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



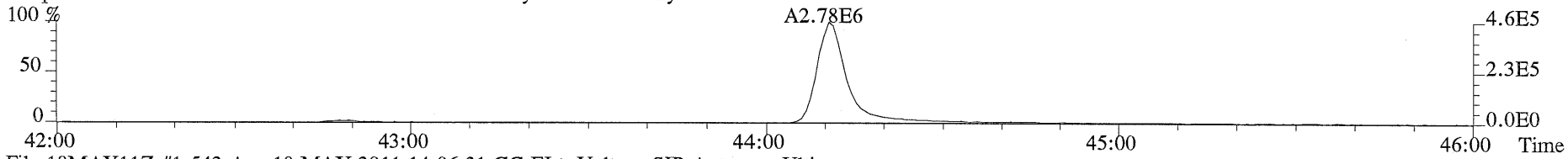
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



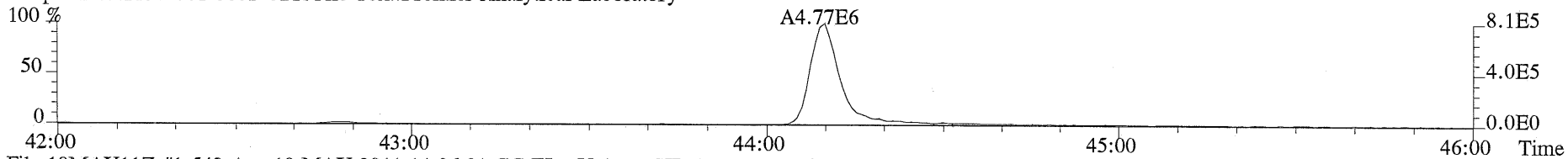
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



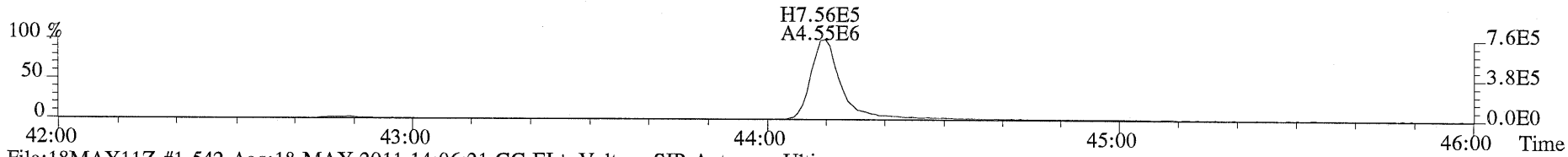
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



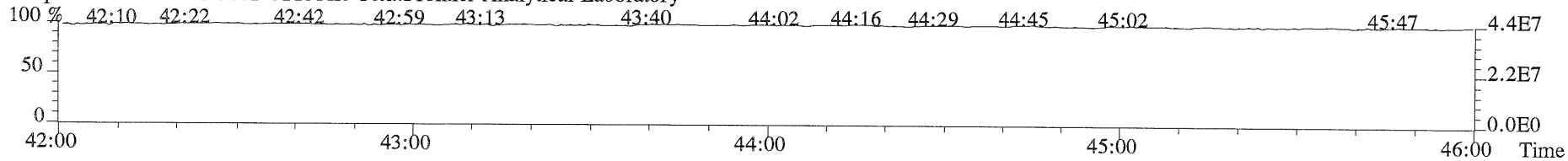
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



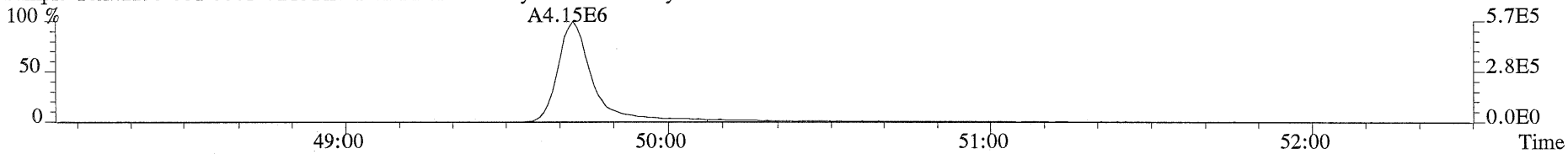
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



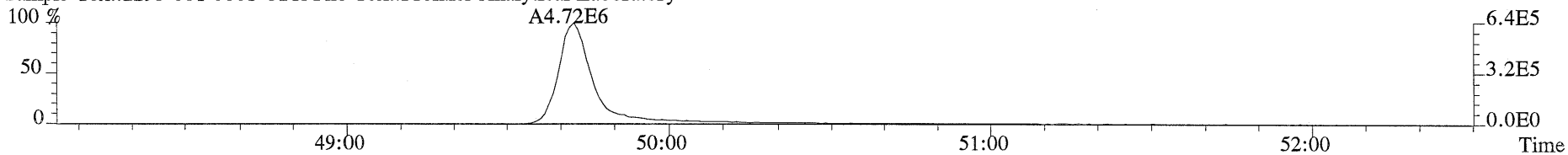
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



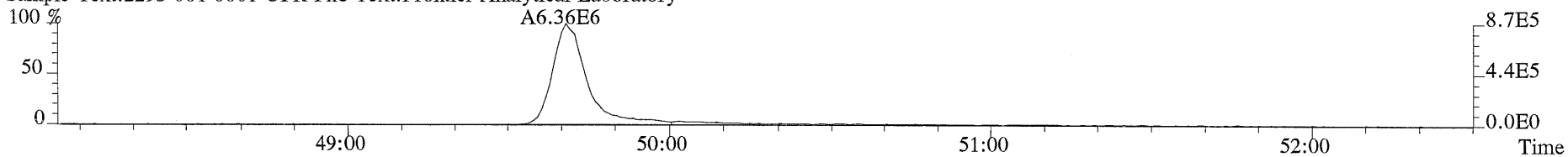
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



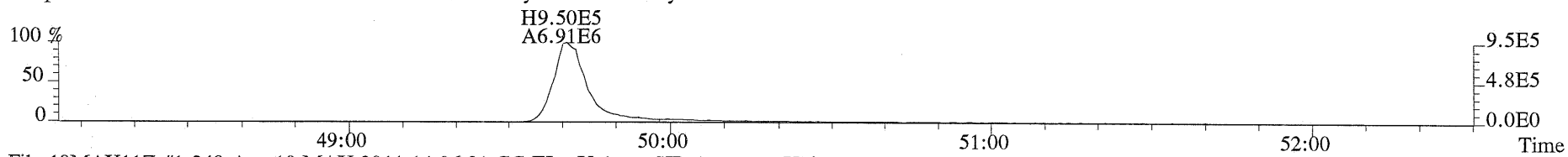
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



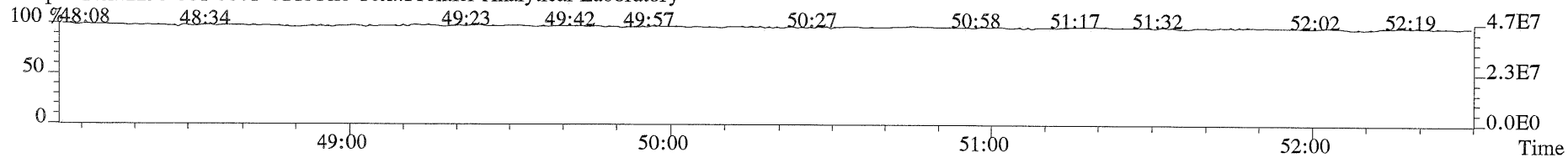
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



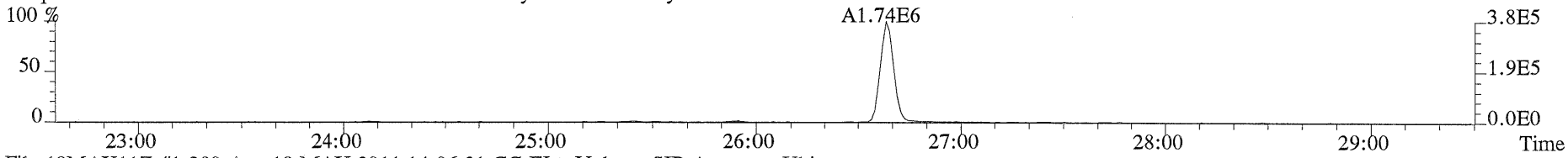
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



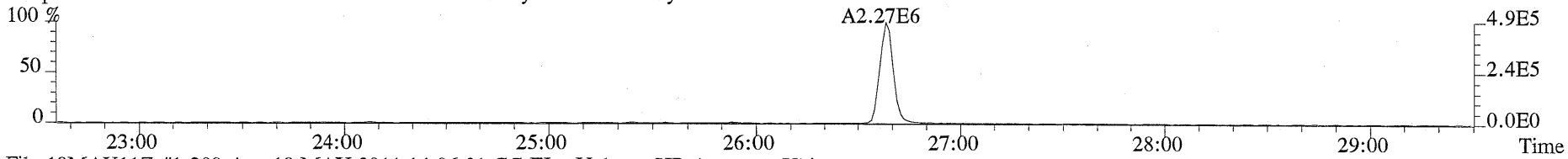
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



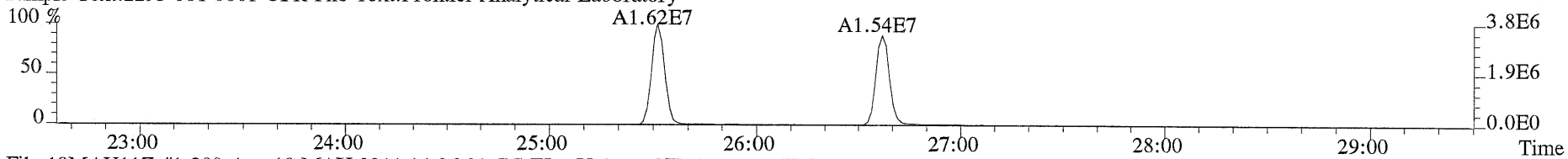
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



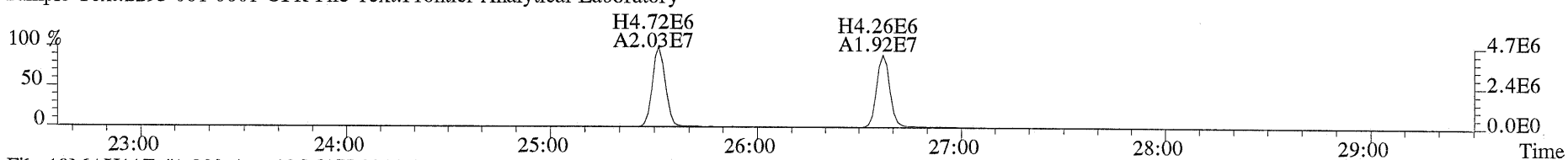
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



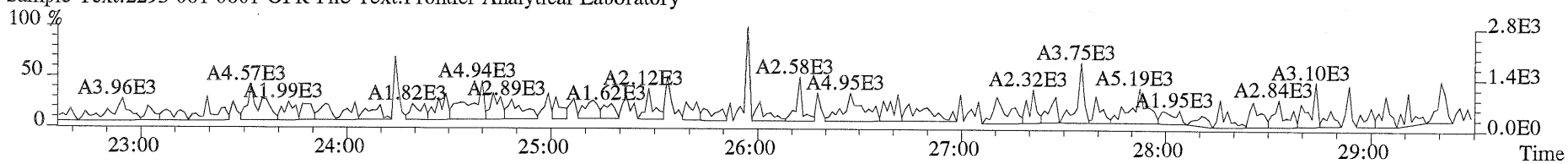
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



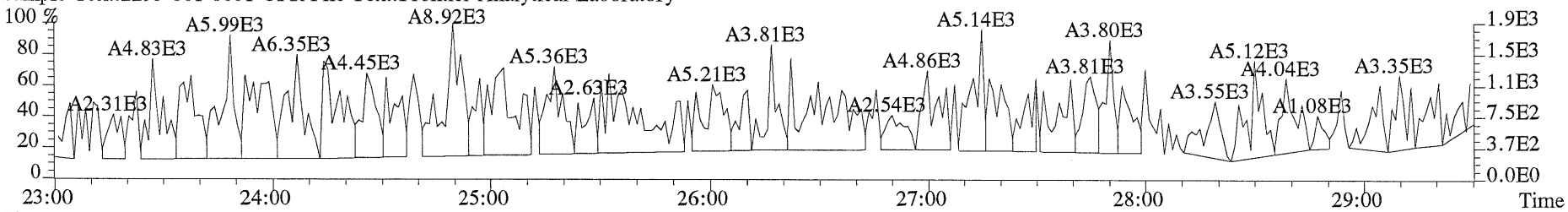
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



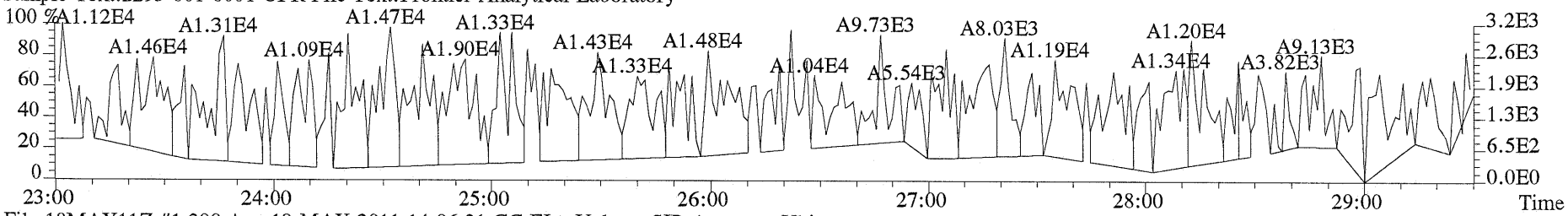
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



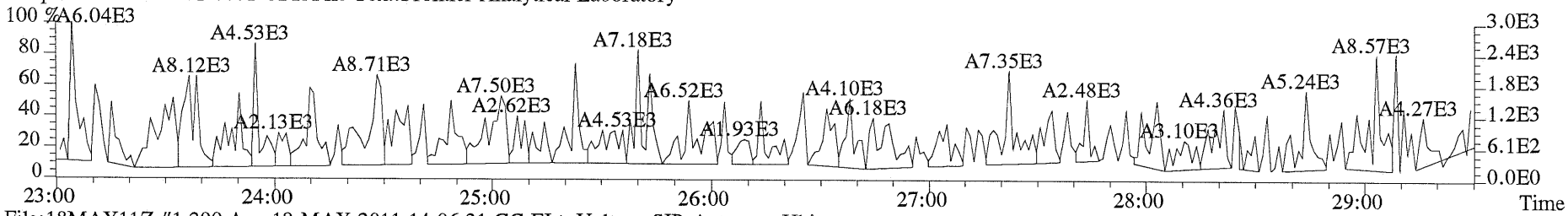
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



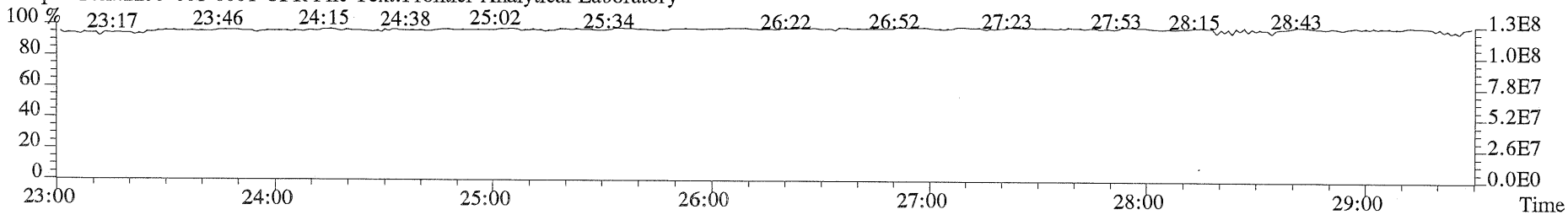
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



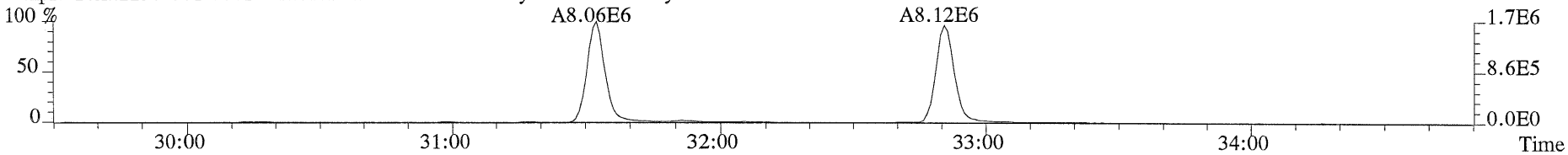
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



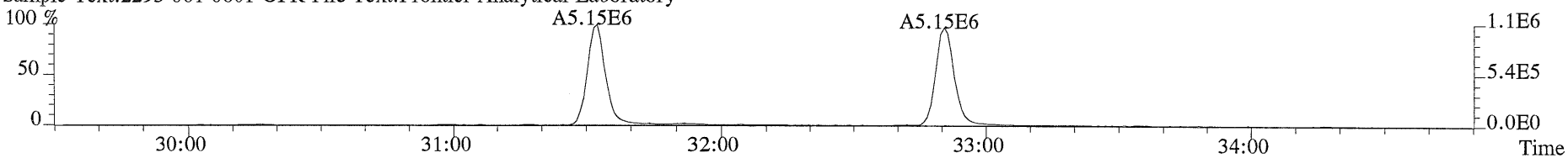
File:18MAY11Z #1-390 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:3 Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



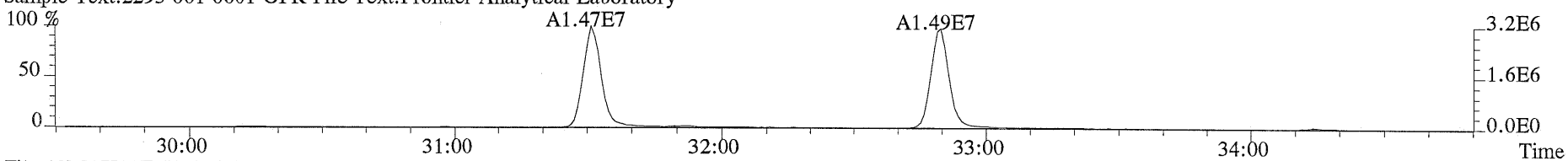
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



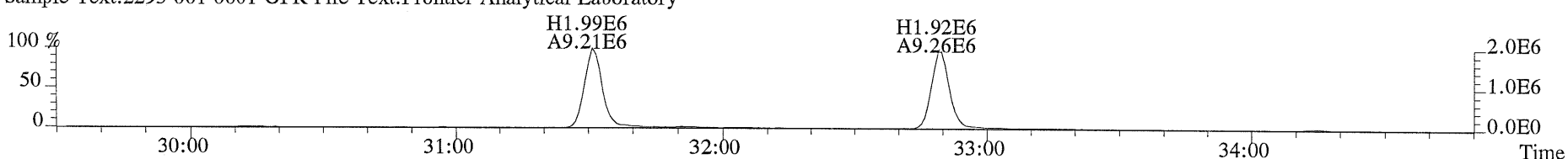
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



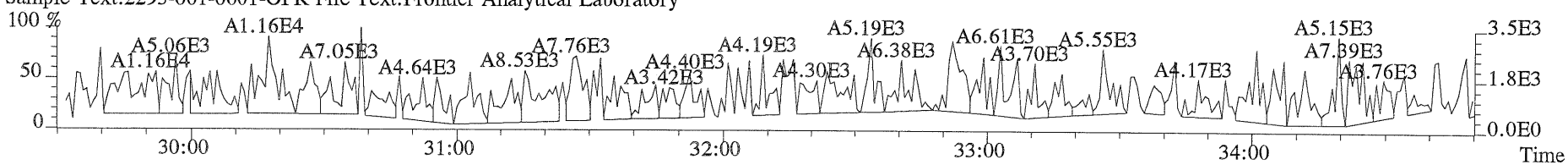
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



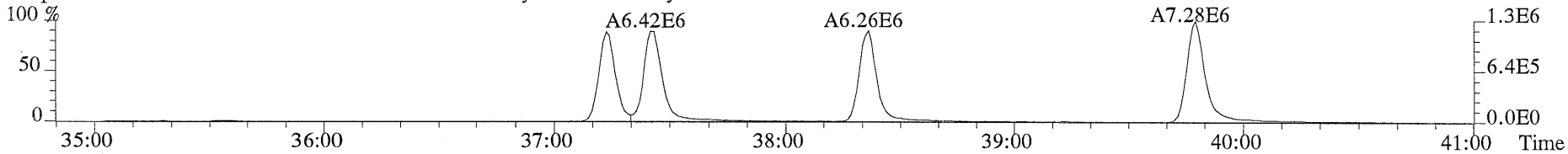
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



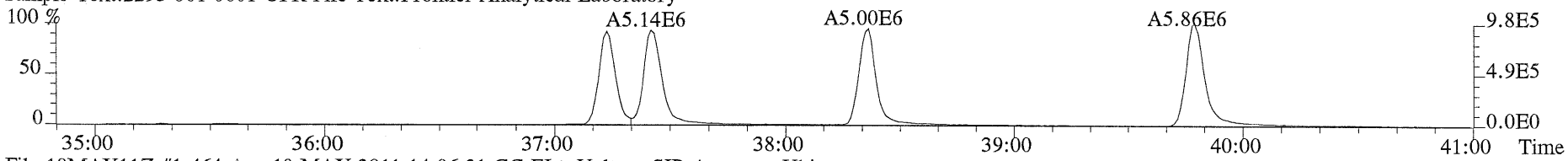
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



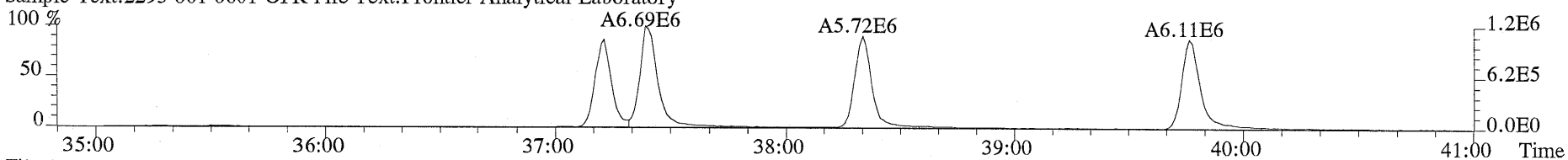
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



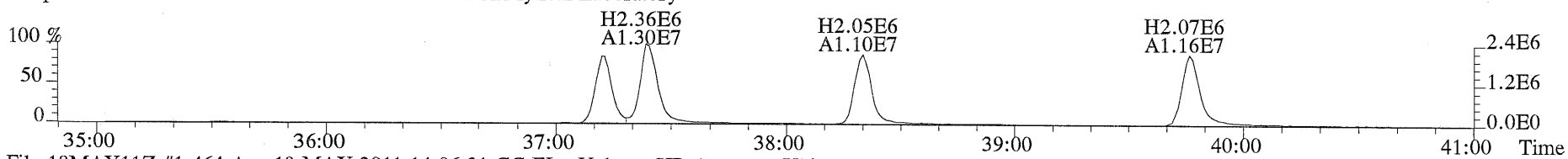
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



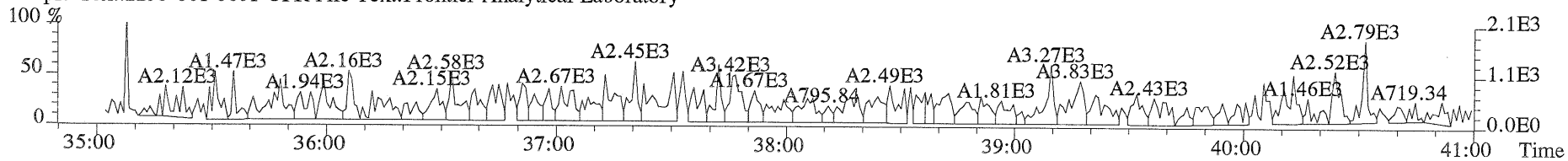
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



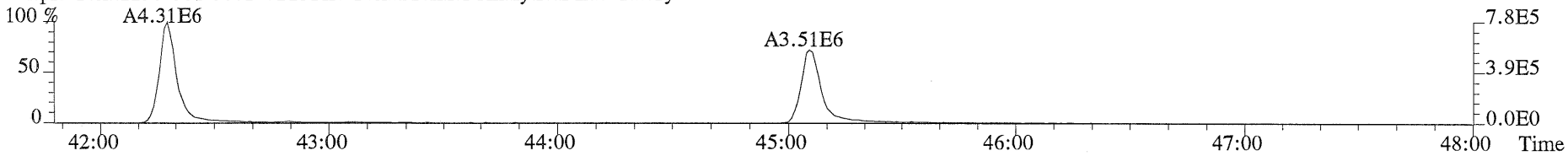
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



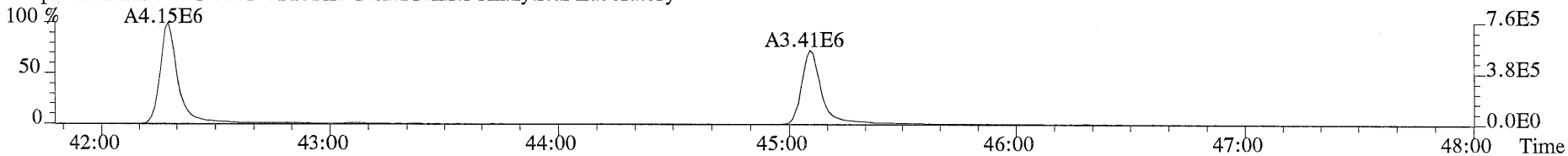
File:18MAY11Z #1-464 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



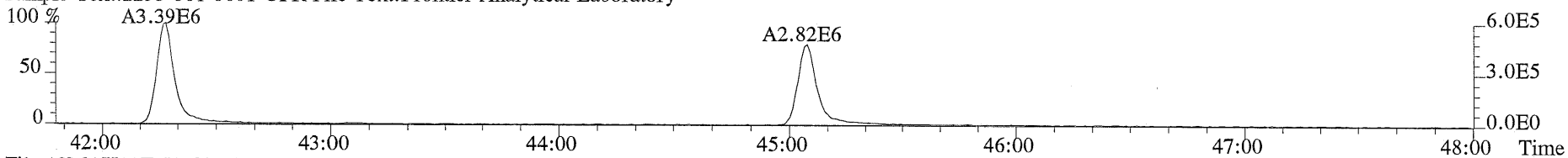
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



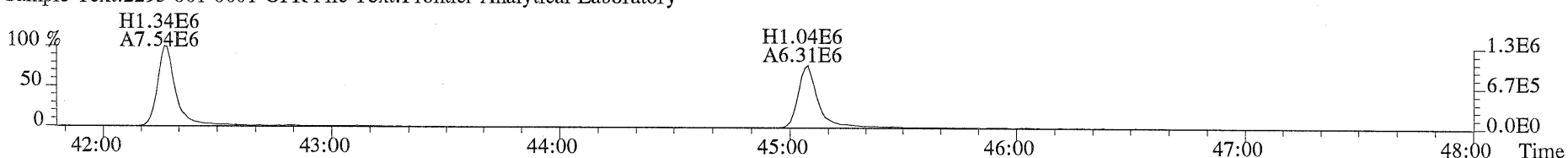
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



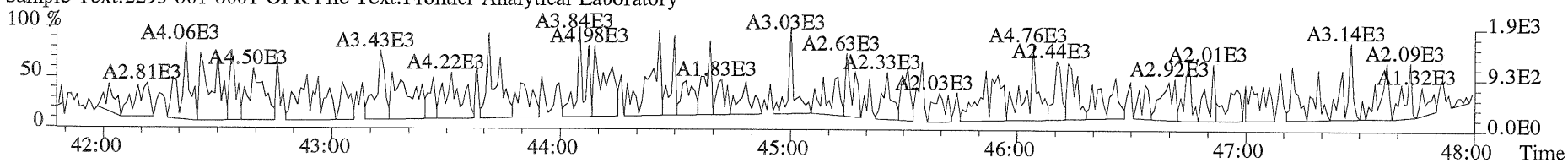
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



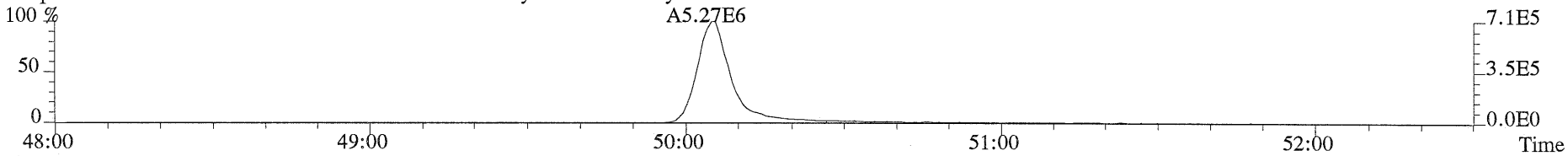
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



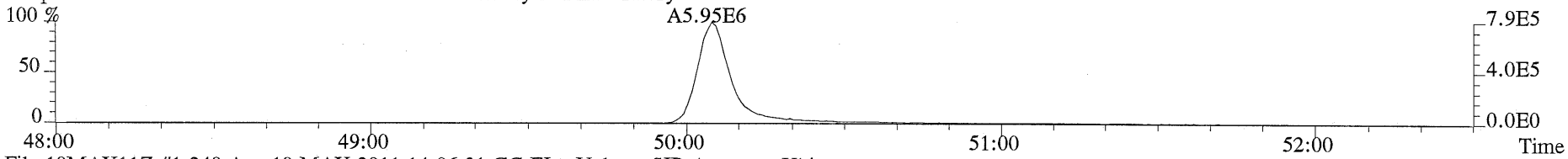
File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



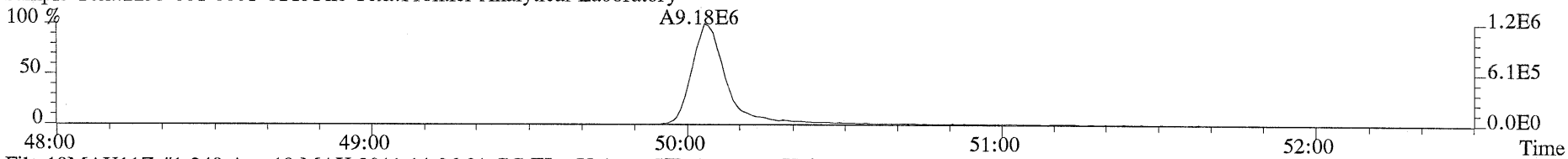
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



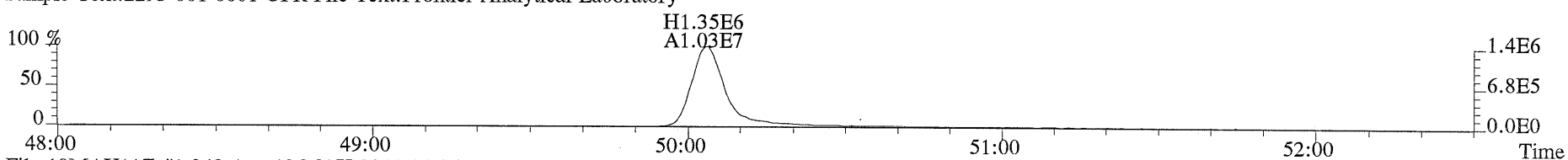
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



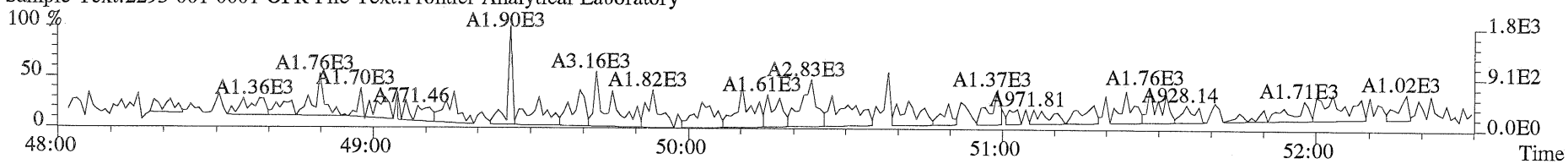
File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



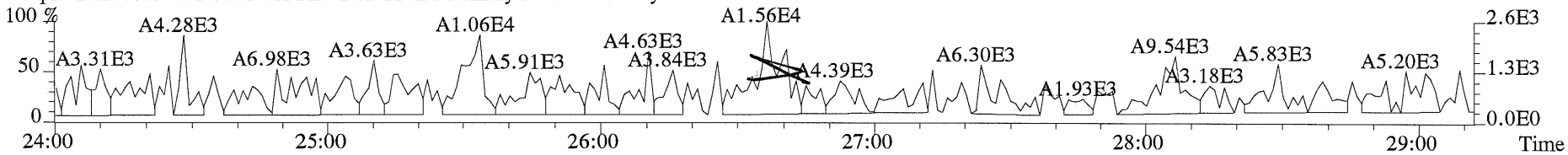
FAL ID: 6739-001-0001-SA Filename: 18MAY11Z Sam:5 Acquired: 18-MAY-11 15:55:55 ICal: PCDDFAL4-5-17-11
Client ID: MW02-042611 ConCal: ST051811Z1 EndCal: ST051811Z2
Results: 6739 GC Column: DB5 Amount: 1.002 NATO 1989 Tox: 0.00917
WHO 1998 Tox: 0.000917 WHO 2005 Tox: 0.00275

Name	Resp	RA		RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	*	n	NotFnd	1.15	*		2.50	860	715	0.981
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.02	*		2.50	728	380	1.19
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.09	*		2.50	772	768	1.76
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.08	*		2.50	772	768	2.24
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.12	*		2.50	772	768	1.93
1,2,3,4,6,7,8-HpCDD	*	*	n	NotFnd	1.03	*		2.50	753	505	2.49
OCDD	5.94e+04	0.87	y	49:43	1.21	9.17	J	2.50	-	-	*
2,3,7,8-TCDF	*	*	n	NotFnd	1.09	*		2.50	447	1130	0.749
1,2,3,7,8-PeCDF	*	*	n	NotFnd	0.96	*		2.50	572	1020	1.31
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.96	*		2.50	572	1020	1.32
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.18	*		2.50	680	536	1.20
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	1.03	*		2.50	680	536	1.14
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.17	*		2.50	680	536	1.17
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.27	*		2.50	680	536	1.05
1,2,3,4,6,7,8-HpCDF	*	*	n	NotFnd	1.36	*		2.50	508	496	1.21
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.35	*		2.50	508	496	1.53
OCDF	*	*	n	NotFnd	0.97	*		2.50	354	572	2.37
											Rec
13C-2,3,7,8-TCDD	3.00e+07	0.80	y	27:24	0.99	2020					101
13C-1,2,3,7,8-PeCDD	2.16e+07	1.62	y	33:15	0.79	1820					91.2
13C-1,2,3,4,7,8-HxCDD	1.93e+07	1.27	y	38:36	1.03	1940					97.4
13C-1,2,3,6,7,8-HxCDD	1.75e+07	1.27	y	38:45	0.96	1900					95.1
13C-1,2,3,4,6,7,8-HpCDD	1.42e+07	1.05	y	44:10	0.75	1970					98.8
13C-OCDD	2.15e+07	0.88	y	49:42	0.50	4430					111
13C-2,3,7,8-TCDF	4.27e+07	0.80	y	26:37	0.98	2030					102
13C-1,2,3,7,8-PeCDF	3.09e+07	1.60	y	31:31	0.78	1850					92.7
13C-2,3,4,7,8-PeCDF	3.04e+07	1.59	y	32:49	0.75	1880					94.0
13C-1,2,3,4,7,8-HxCDF	2.15e+07	0.53	y	37:12	1.05	2120					106
13C-1,2,3,6,7,8-HxCDF	2.73e+07	0.52	y	37:25	1.40	2020					101
13C-2,3,4,6,7,8-HxCDF	2.31e+07	0.54	y	38:20	1.16	2070					104
13C-1,2,3,7,8,9-HxCDF	2.58e+07	0.51	y	39:46	1.30	2070					103
13C-1,2,3,4,6,7,8-HpCDF	1.67e+07	0.44	y	42:16	0.83	2100					105
13C-1,2,3,4,7,8,9-HpCDF	1.41e+07	0.45	y	45:05	0.69	2110					106
13C-OCDF	2.95e+07	0.89	y	50:04	0.77	3980					99.7
37Cl-2,3,7,8-TCDD	8.33e+06			27:25	0.71	782					97.9
13C-1,2,3,4-TCDD	2.99e+07	0.81	y	26:48	-	56.0					
13C-1,2,3,4-TCDF	4.29e+07	0.80	y	25:32	-	57.2					
13C-1,2,3,7,8,9-HxCDD	1.92e+07	1.29	y	39:12	-	49.6					

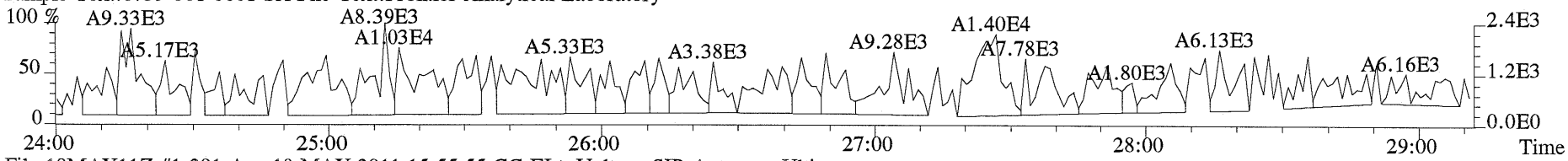
					Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*		NotFnd	1.15	*	2.50	860	715	0.981	0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	728	380	1.19	0
Total Hexa-Dioxins	*		NotFnd	1.10	*	2.50	772	768	2.24	0
Total Hepta-Dioxins	*		NotFnd	1.03	*	2.50	753	505	2.49	0
Total Tetra-Furans	*		NotFnd	1.09	*	2.50	447	1130	0.749	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*	2.50	572	1020	1.32 PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*	2.50	572	1020	1.32 0.00	0
Total Hexa-Furans	*		NotFnd	1.16	*	2.50	680	536	1.20	0
Total Hepta-Furans	*		NotFnd	1.36	*	2.50	508	496	1.53	0

Analyst: _____ Date: 5/19/11

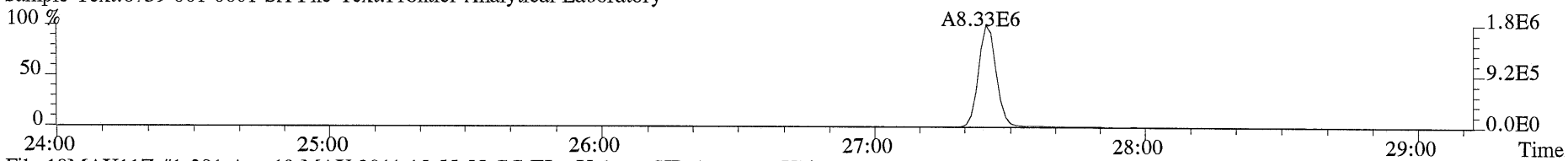
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



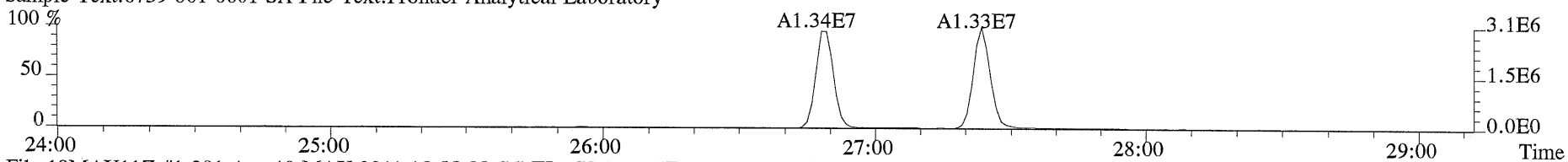
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



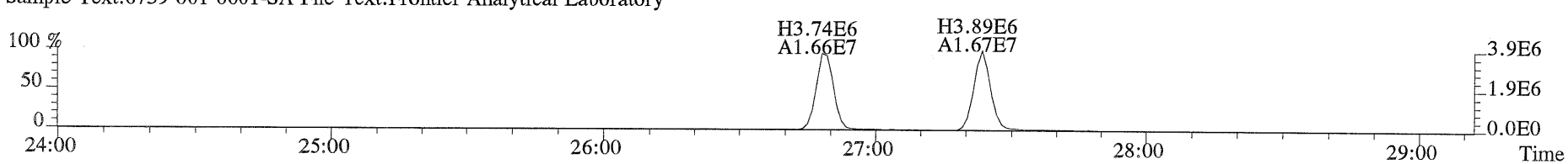
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



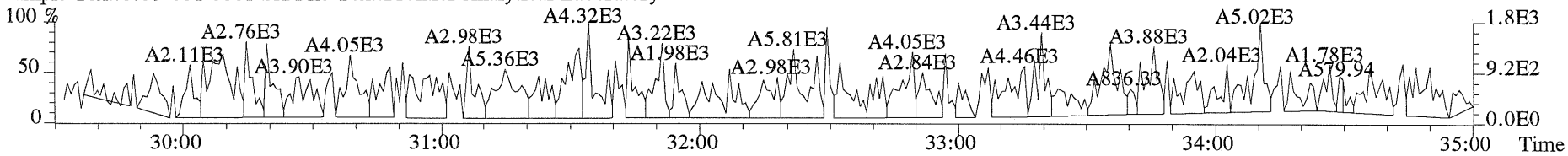
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



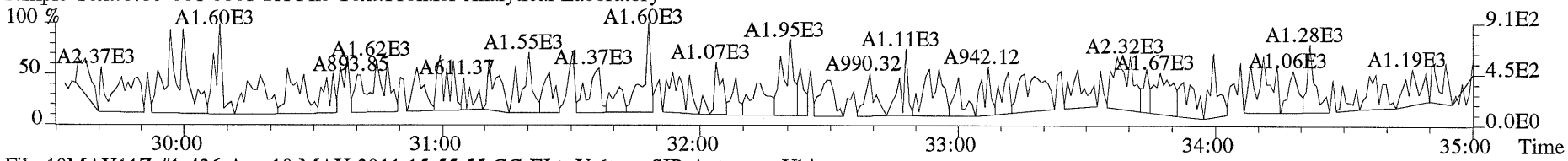
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



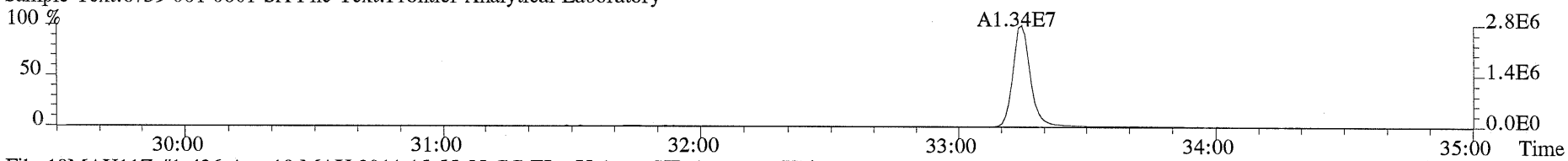
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



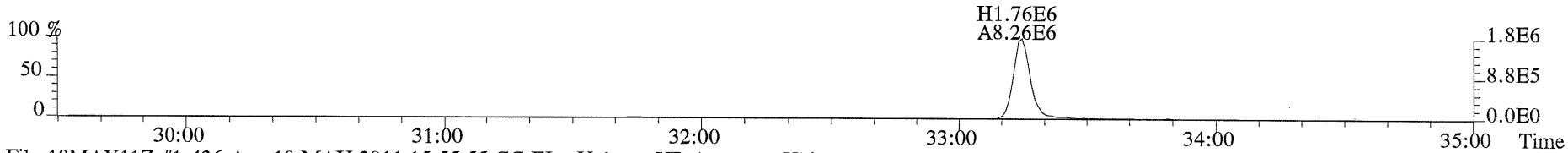
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



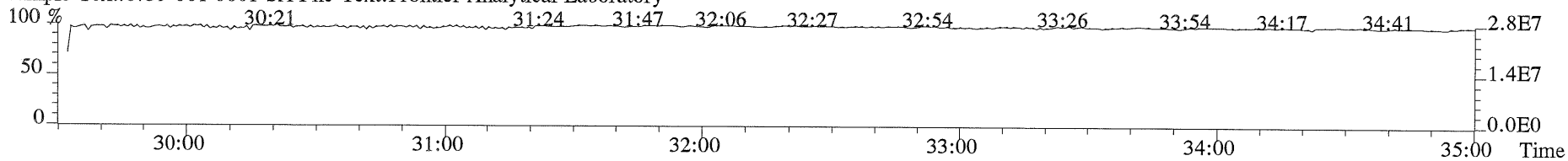
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



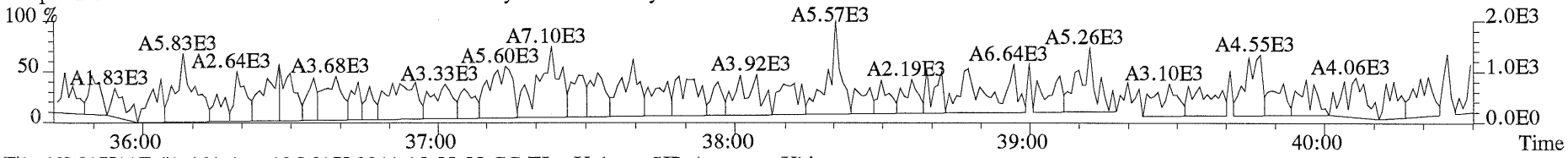
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



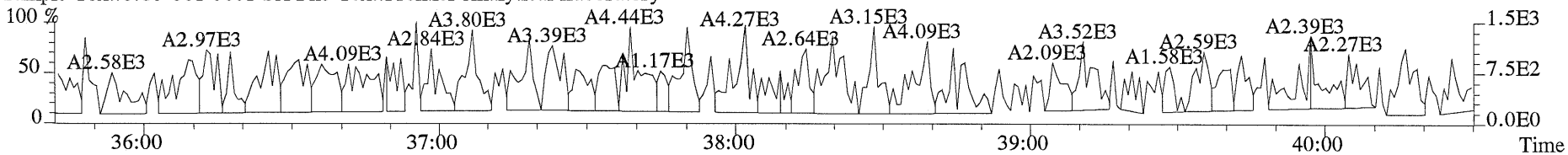
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:5 F:2 Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



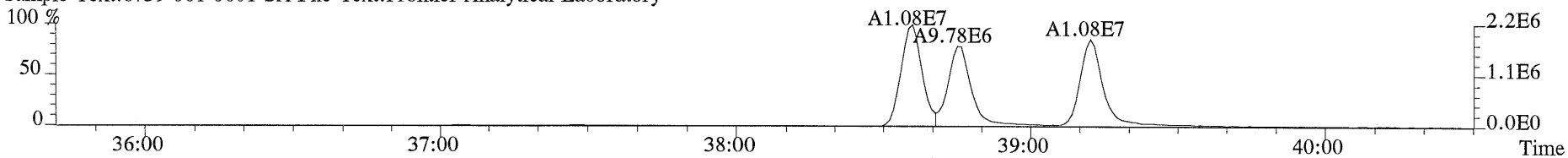
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



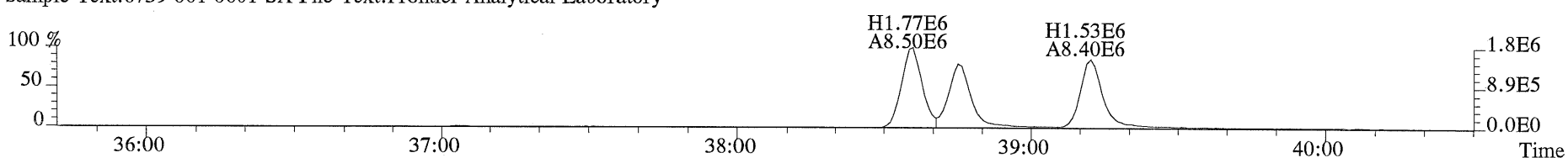
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



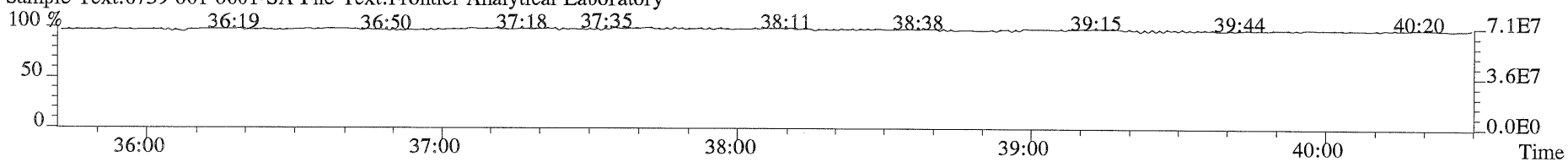
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



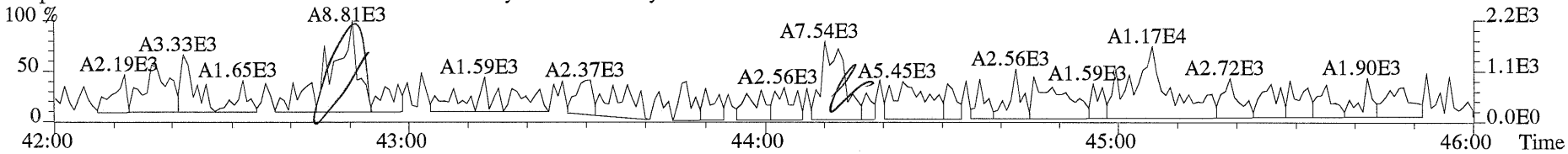
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



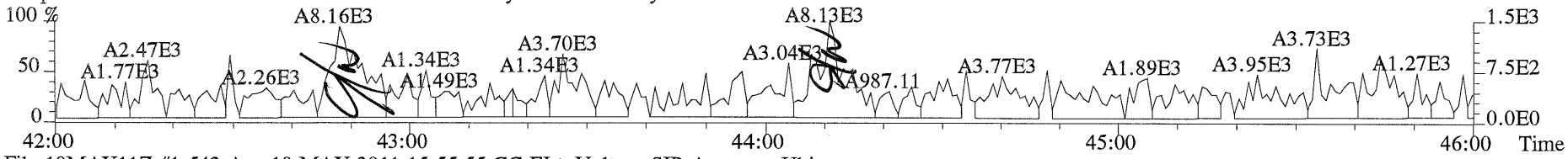
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:5 F:3 Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



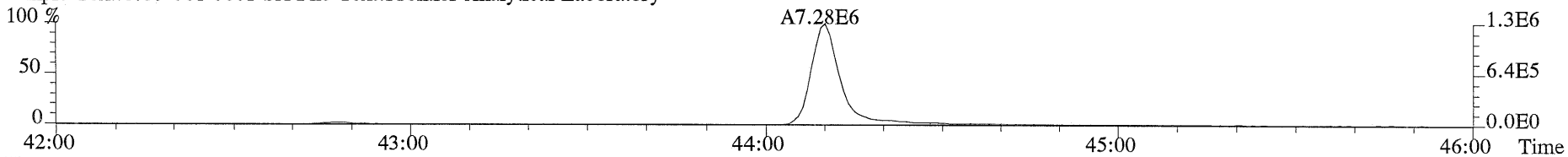
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



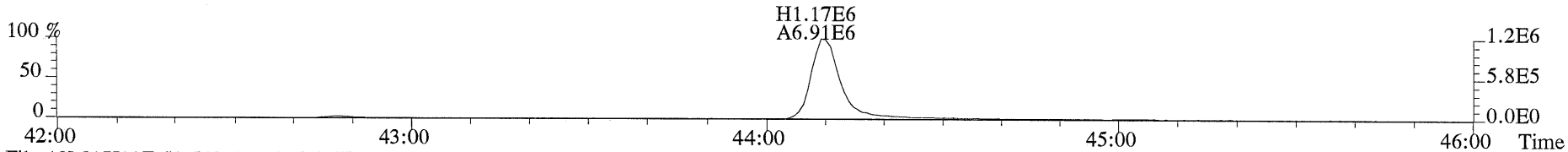
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



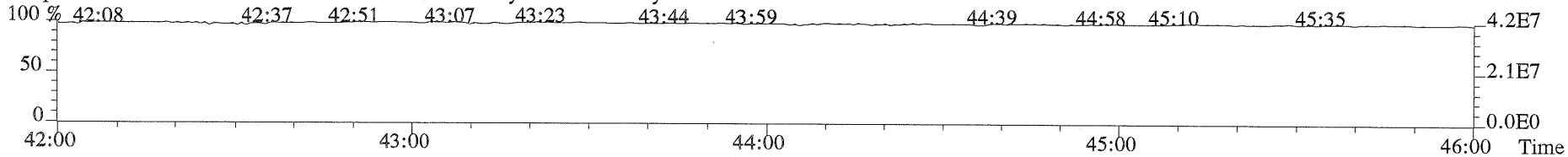
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



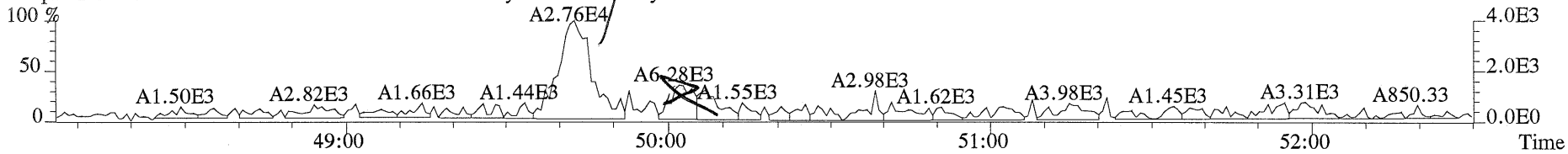
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



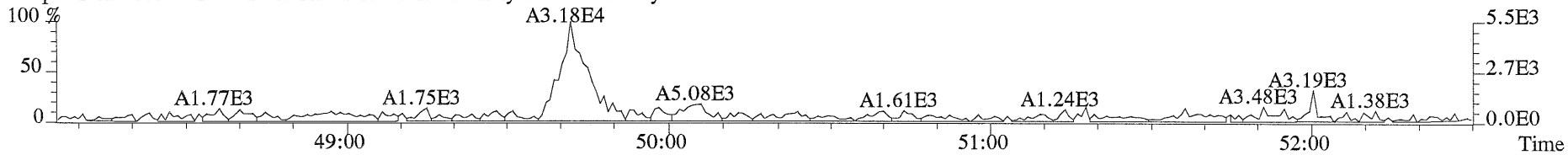
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:5 F:4 Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



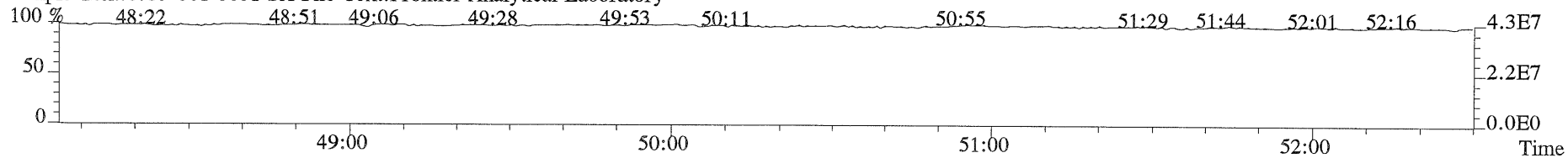
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



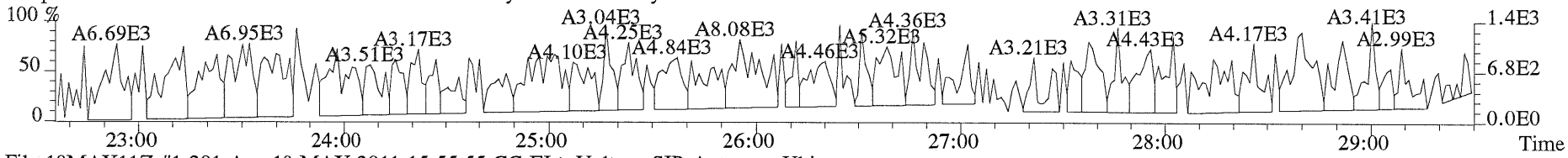
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory

File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory

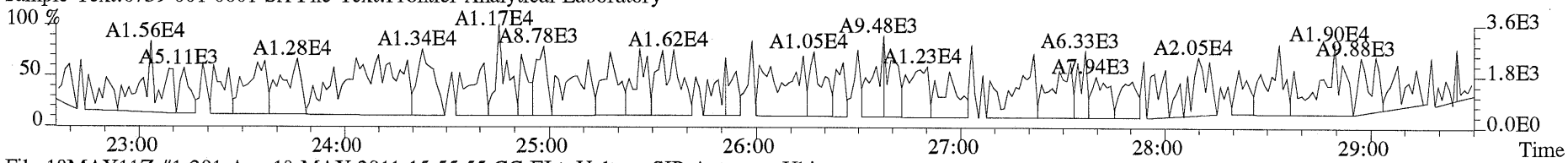
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



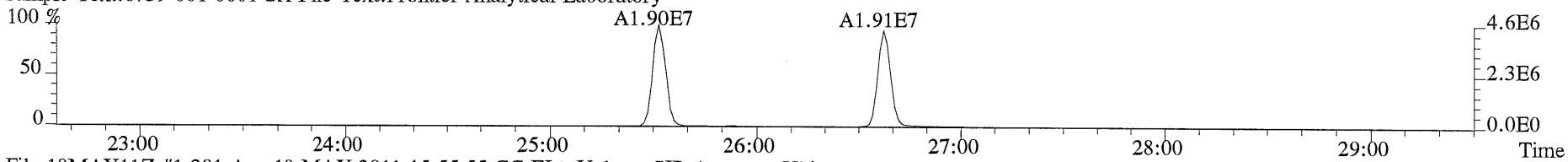
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



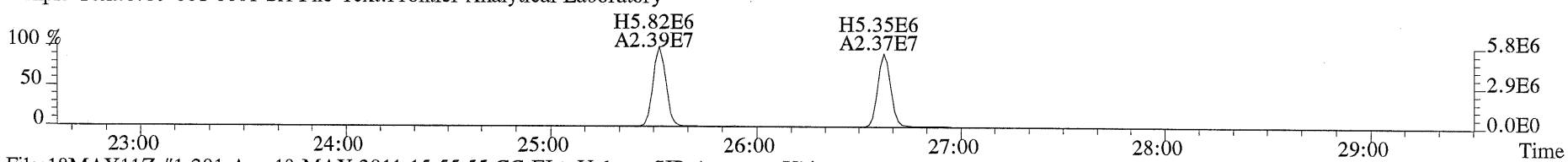
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



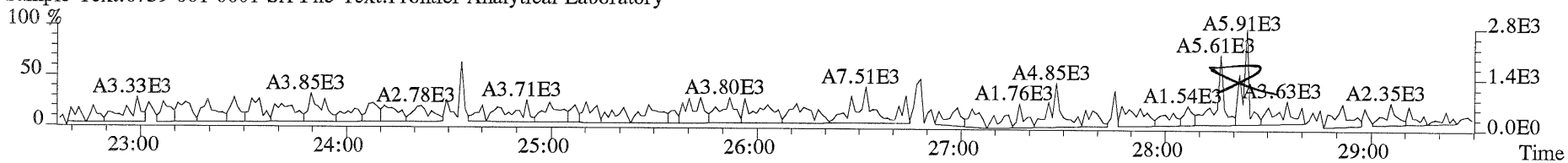
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



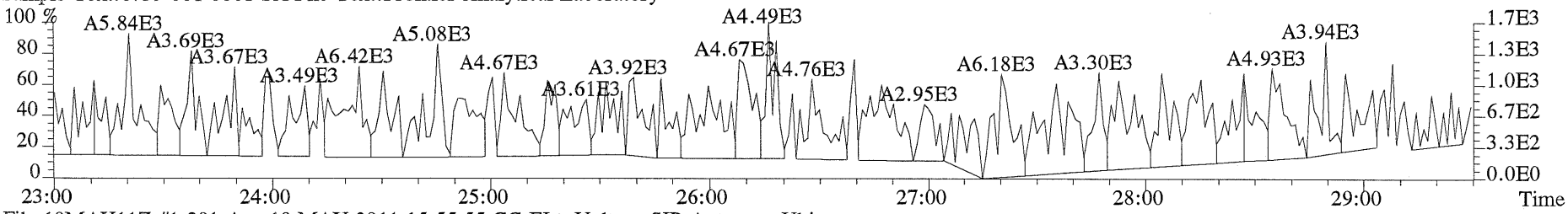
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



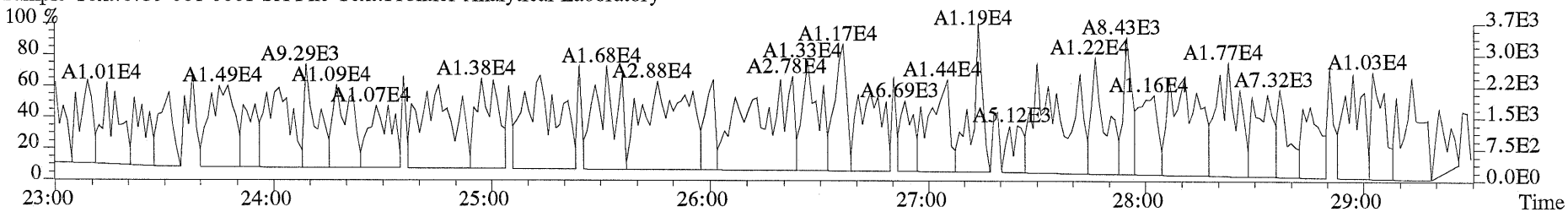
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



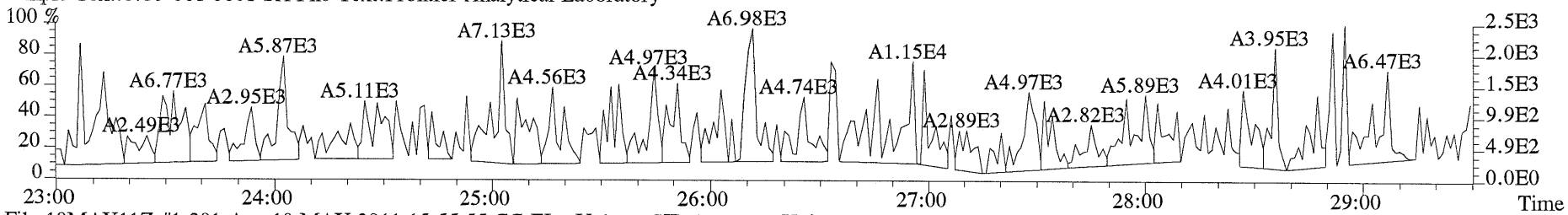
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



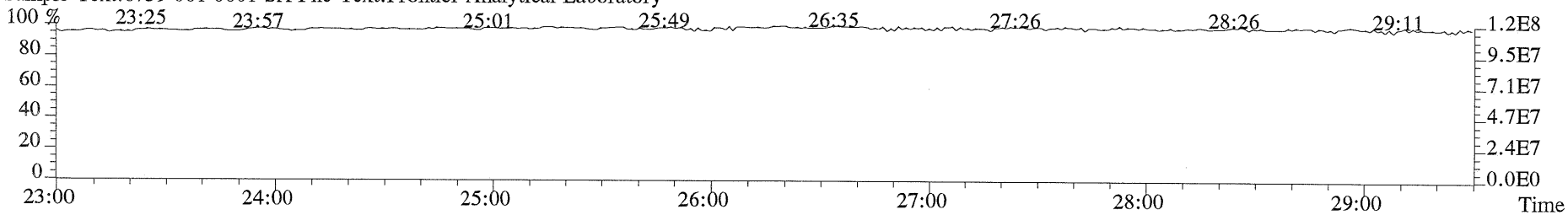
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



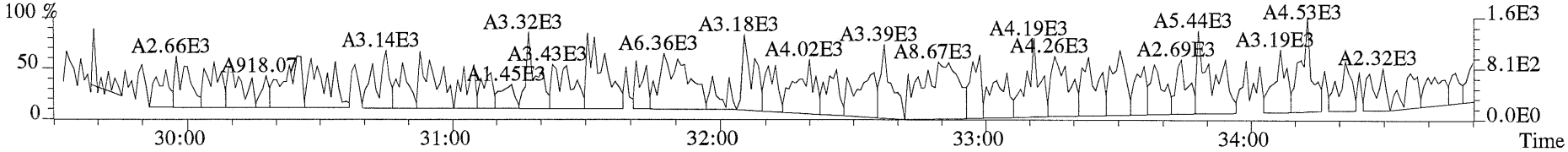
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



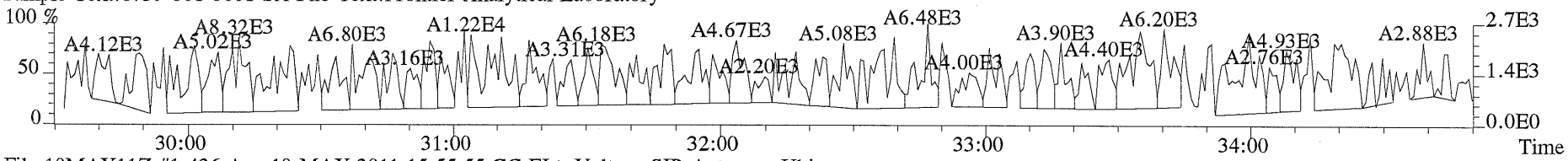
File:18MAY11Z #1-391 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:5 Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



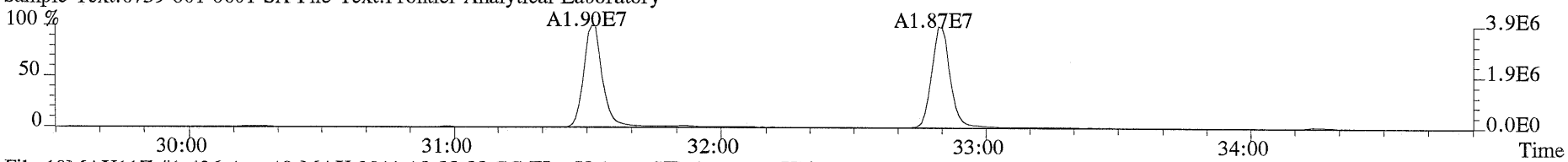
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



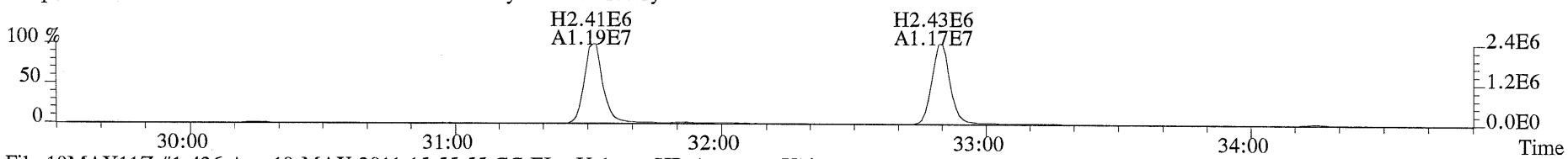
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



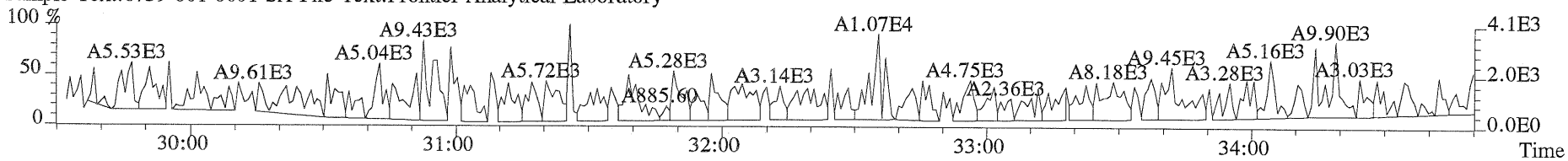
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



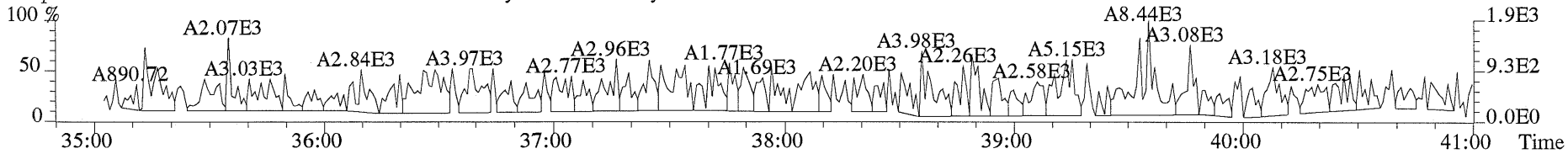
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



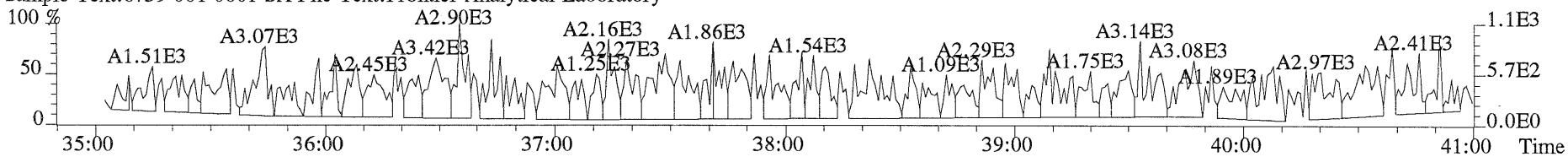
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



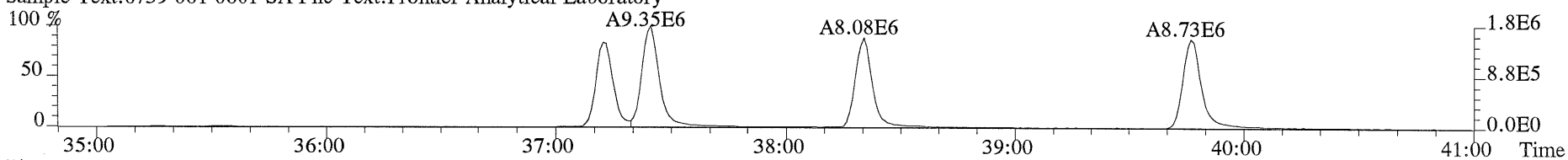
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



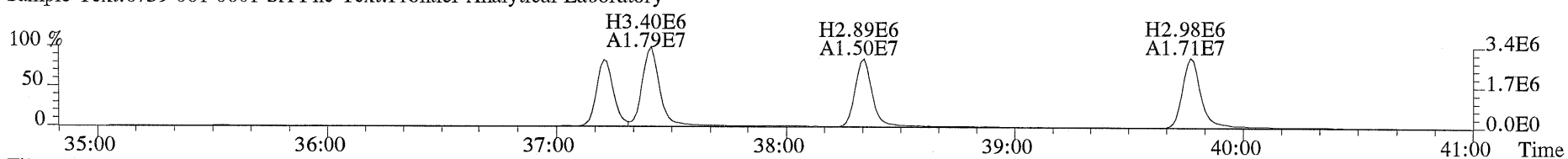
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



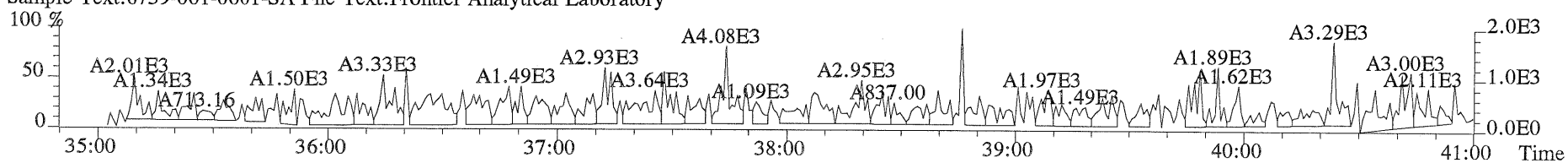
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



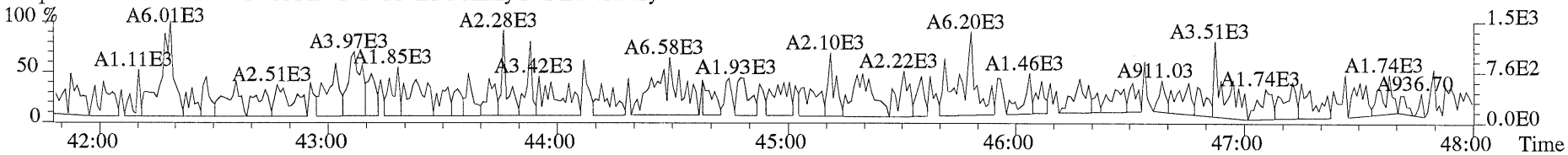
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



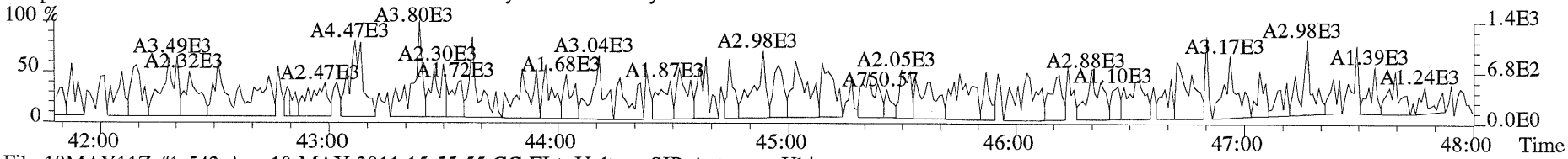
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



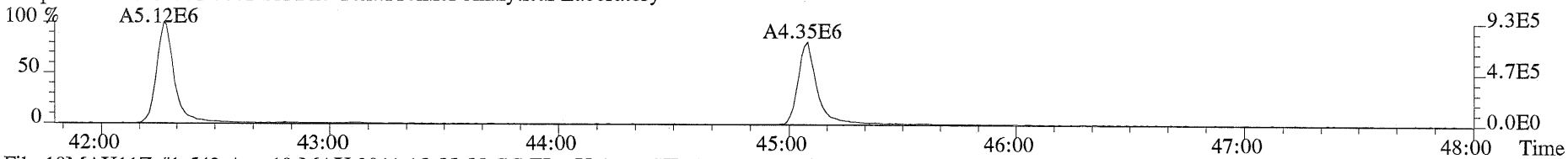
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



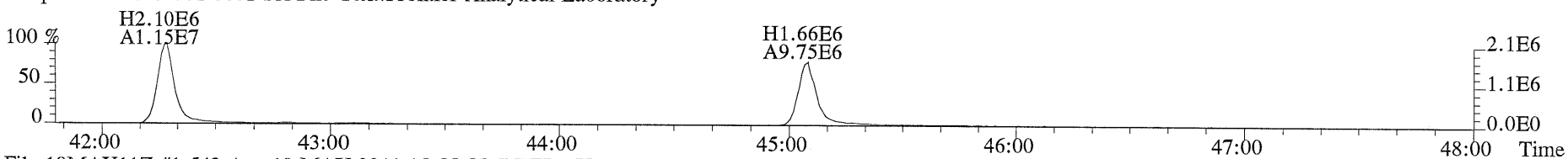
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



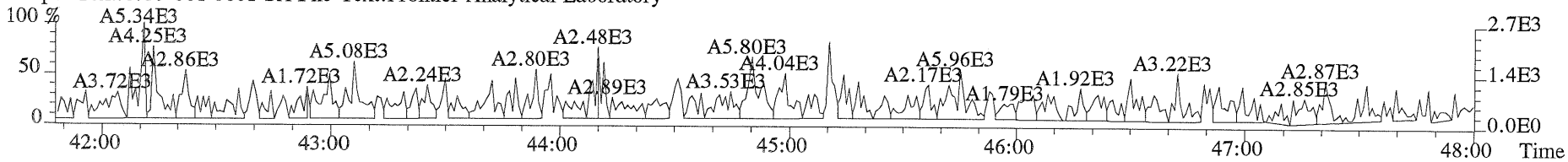
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



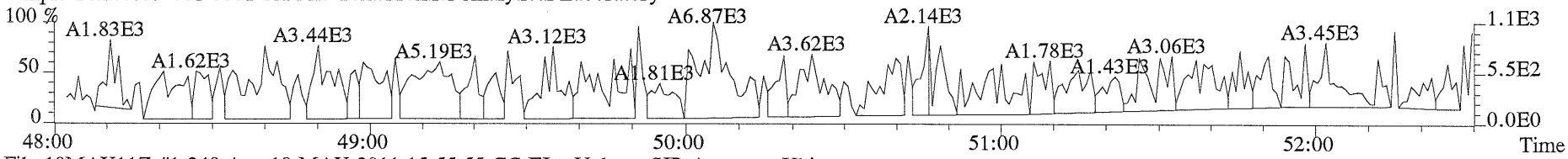
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



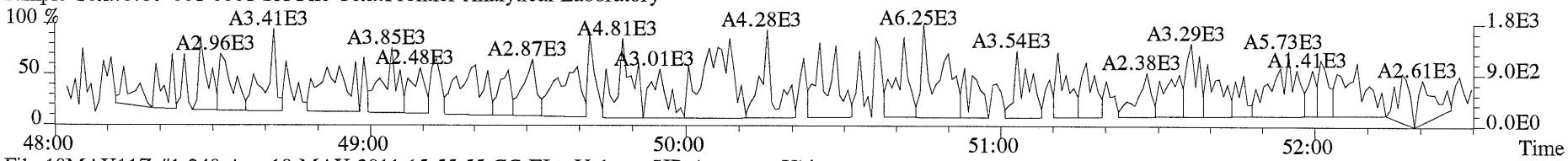
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



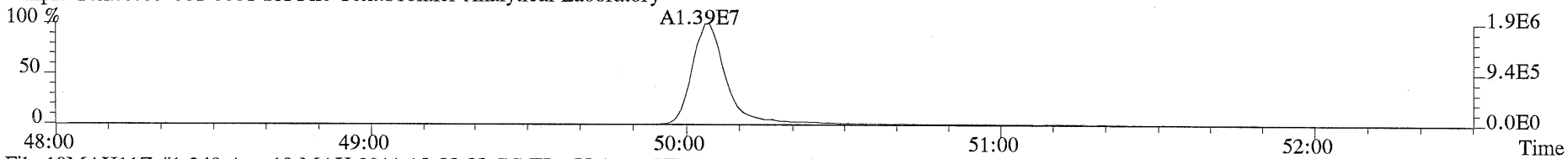
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



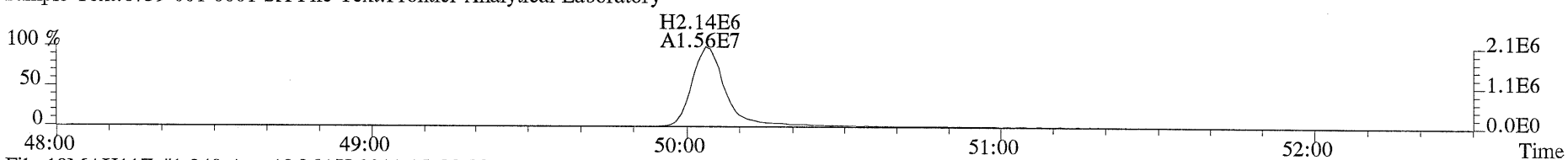
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



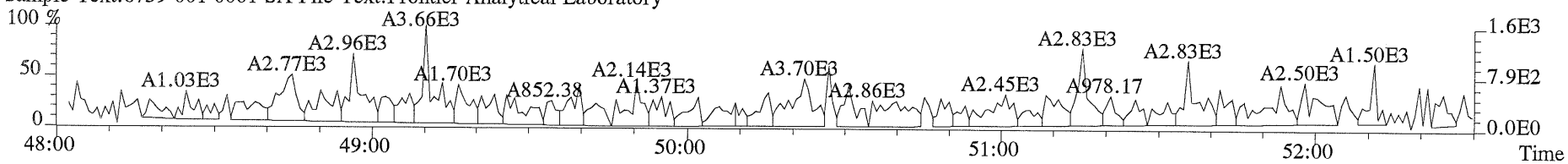
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6739-002-0001-SA Filename: 18MAY11Z Sam:6 Acquired: 18-MAY-11 16:50:42 ICal: PCDDFAL4-5-17-11
Client ID: MW03-042611 ConCal: ST051811Z1 EndCal: ST051811Z2
Results: 6739 GC Column: DB5 Amount: 1.035 NATO 1989 Tox: 0.00
WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00

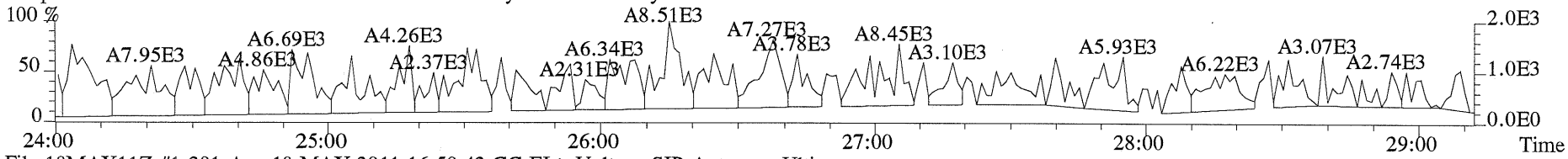
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	719	751	0.902
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	828	412	1.35
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	616	832	1.51
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	616	832	1.92
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	616	832	1.66
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	680	500	2.05
OCDD	*	* n	NotFnd	1.21	*		2.50	440	488	2.34
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	673	1320	0.914
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	740	1130	1.40
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	740	1130	1.48
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	612	536	1.04
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	612	536	1.03
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	612	536	1.04
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	612	536	0.951
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	508	552	1.15
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	508	552	1.52
OCDF	*	* n	NotFnd	0.97	*		2.50	484	589	2.51

						Rec
13C-2,3,7,8-TCDD	2.89e+07	0.79 y	27:24	0.99	2030	105
13C-1,2,3,7,8-PeCDD	2.08e+07	1.61 y	33:15	0.79	1830	94.5
13C-1,2,3,4,7,8-HxCDD	2.05e+07	1.28 y	38:35	1.03	2040	106
13C-1,2,3,6,7,8-HxCDD	1.84e+07	1.24 y	38:45	0.96	1980	102
13C-1,2,3,4,6,7,8-HpCDD	1.51e+07	1.06 y	44:10	0.75	2080	108
13C-OCDD	2.30e+07	0.92 y	49:41	0.50	4700	122
13C-2,3,7,8-TCDF	4.15e+07	0.80 y	26:37	0.98	2020	105
13C-1,2,3,7,8-PeCDF	3.07e+07	1.58 y	31:31	0.78	1890	97.8
13C-2,3,4,7,8-PeCDF	2.92e+07	1.58 y	32:50	0.75	1850	95.7
13C-1,2,3,4,7,8-HxCDF	2.21e+07	0.52 y	37:13	1.05	2160	112
13C-1,2,3,6,7,8-HxCDF	2.78e+07	0.52 y	37:25	1.40	2040	106
13C-2,3,4,6,7,8-HxCDF	2.32e+07	0.52 y	38:21	1.16	2060	107
13C-1,2,3,7,8,9-HxCDF	2.60e+07	0.51 y	39:46	1.30	2070	107
13C-1,2,3,4,6,7,8-HpCDF	1.71e+07	0.44 y	42:17	0.83	2130	110
13C-1,2,3,4,7,8,9-HpCDF	1.46e+07	0.45 y	45:05	0.69	2170	112
13C-OCDF	3.07e+07	0.89 y	50:05	0.77	4110	106
37Cl-2,3,7,8-TCDD	7.96e+06		27:25	0.71	778	101
13C-1,2,3,4-TCDD	2.78e+07	0.80 y	26:49	-	50.4	
13C-1,2,3,4-TCDF	4.05e+07	0.80 y	25:32	-	52.3	
13C-1,2,3,7,8,9-HxCDD	1.88e+07	1.27 y	39:12	-	47.0	

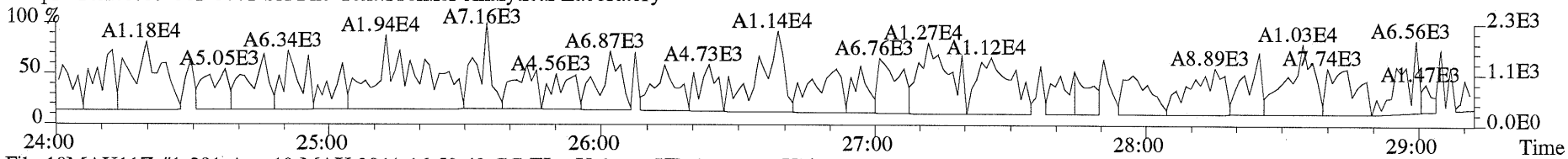
					Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*		NotFnd	1.15	*	2.50	719	751	0.902	0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	828	412	1.35	0
Total Hexa-Dioxins	*		NotFnd	1.10	*	2.50	616	832	1.92	0
Total Hepta-Dioxins	*		NotFnd	1.03	*	2.50	680	500	2.05	0
Total Tetra-Furans	*		NotFnd	1.09	*	2.50	673	1320	0.914	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*	2.50	740	1130	1.48 PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*	2.50	740	1130	1.48	0.00 0
Total Hexa-Furans	*		NotFnd	1.16	*	2.50	612	536	1.04	0
Total Hepta-Furans	*		NotFnd	1.36	*	2.50	508	552	1.52	0

Analyst: _____ Date: 5/19/11

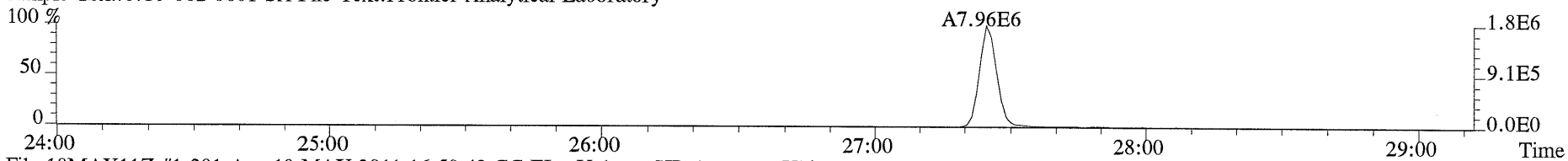
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



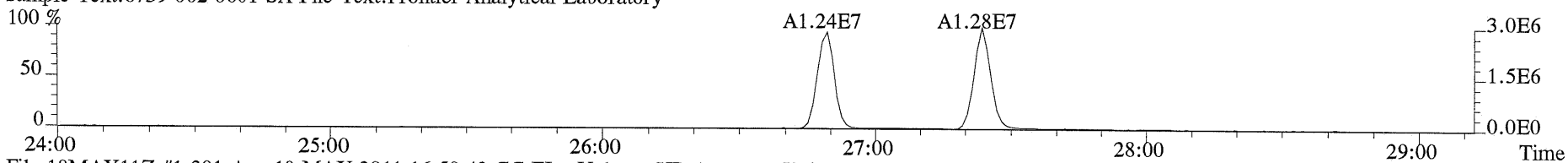
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



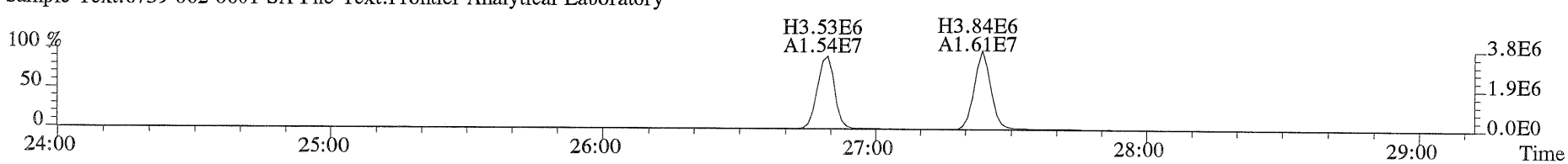
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



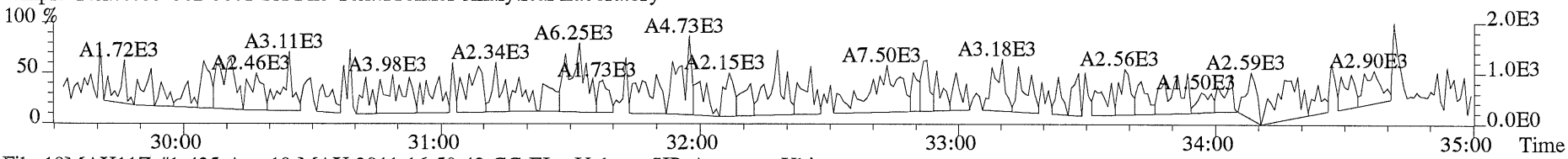
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



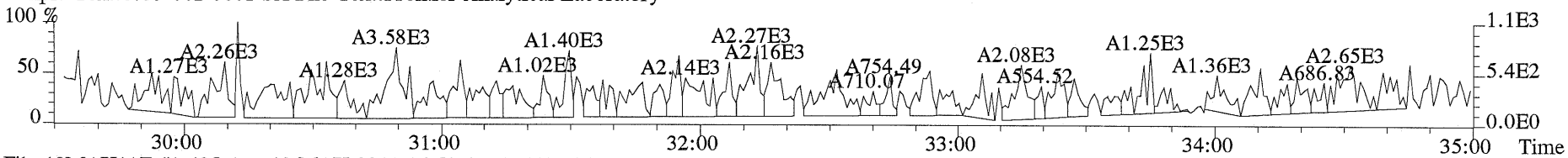
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



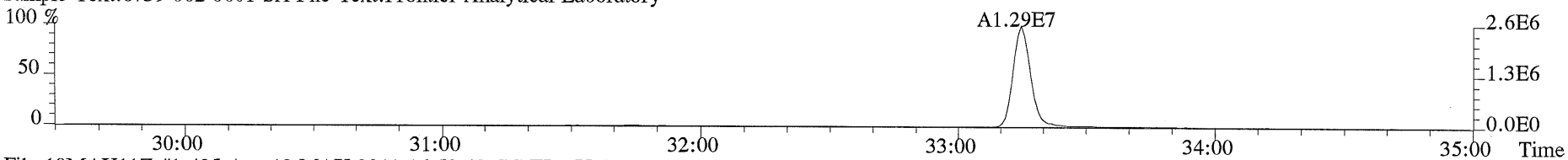
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



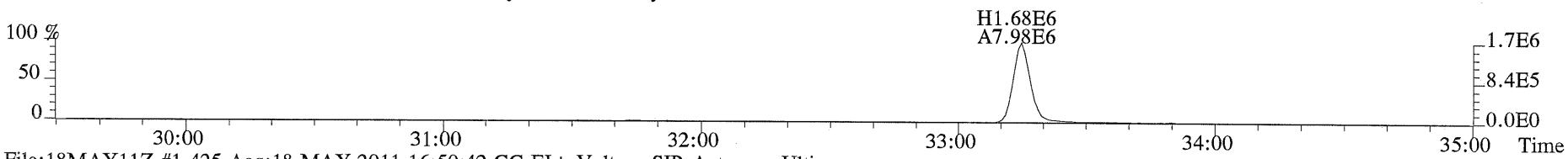
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



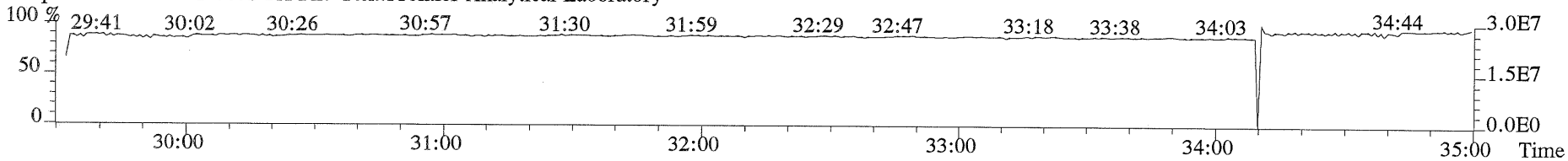
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



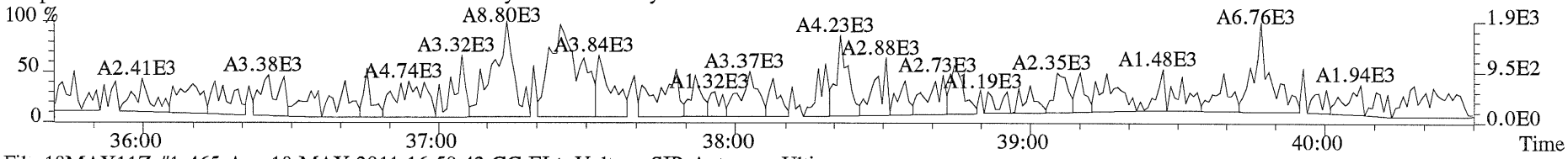
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



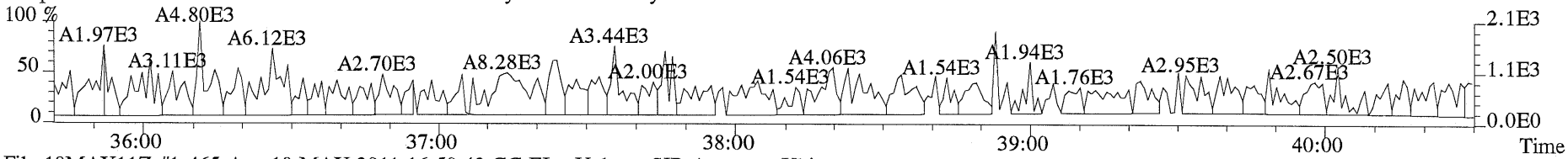
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:6 F:2 Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



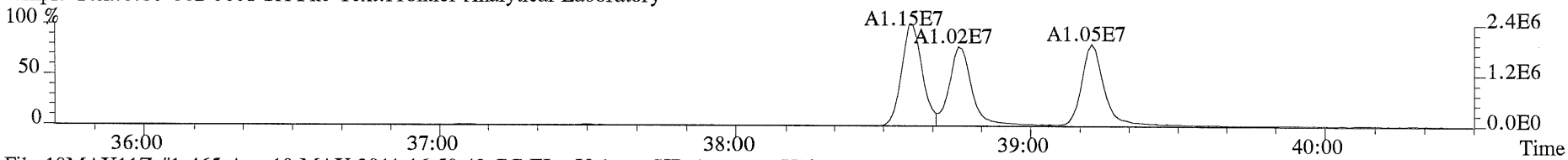
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



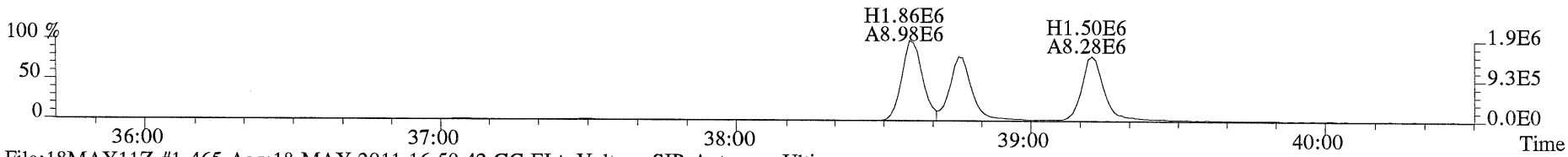
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



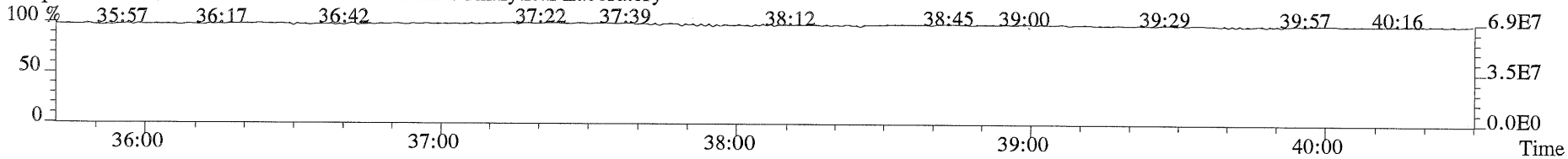
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



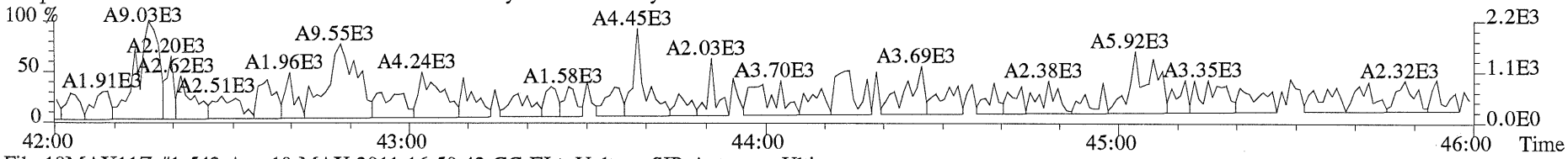
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



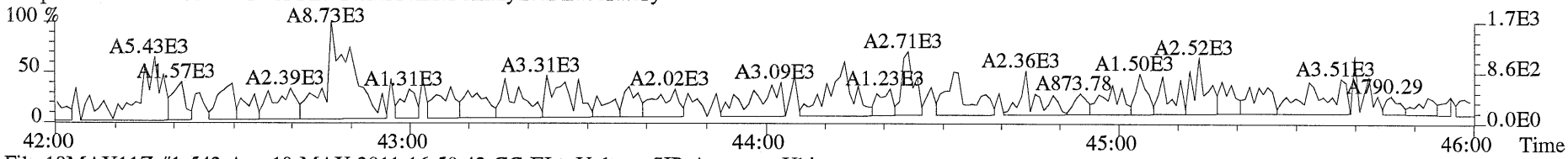
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:6 F:3 Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



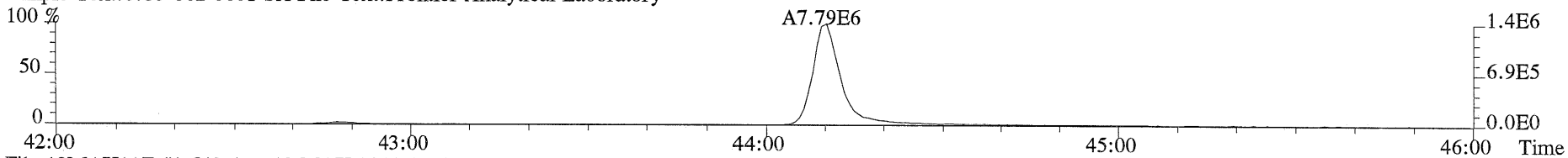
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



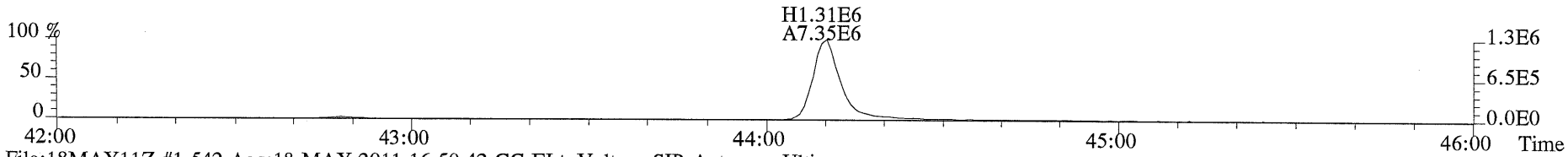
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



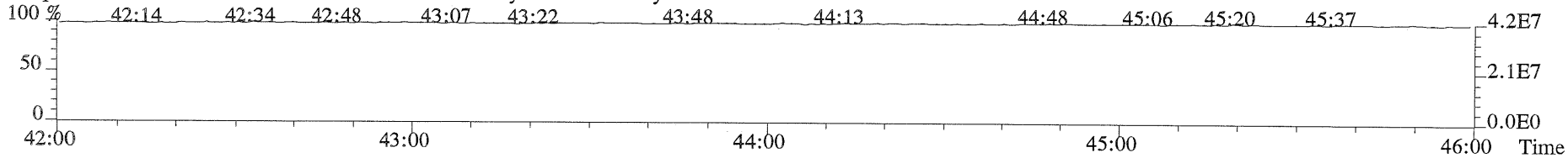
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



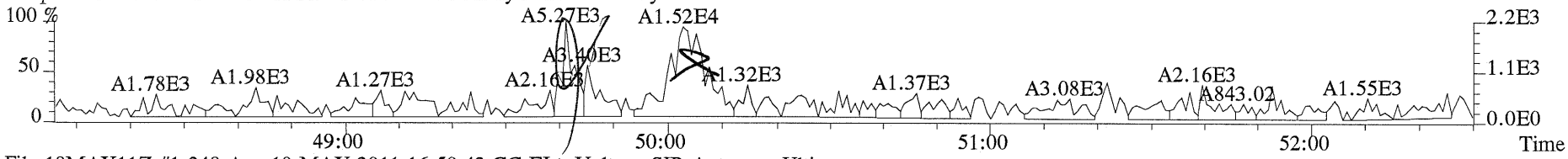
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



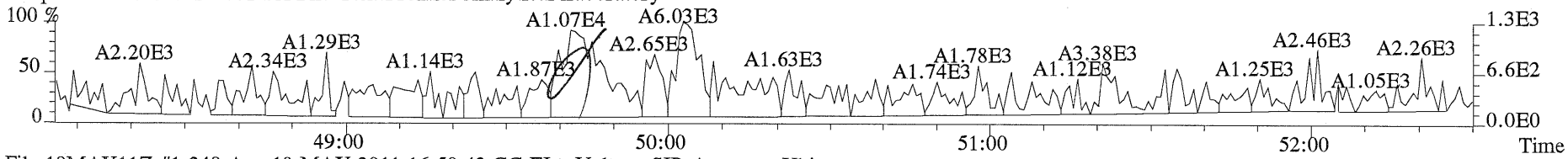
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:6 F:4 Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



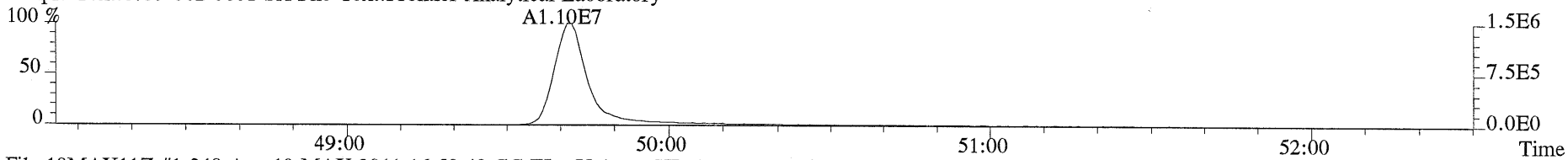
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



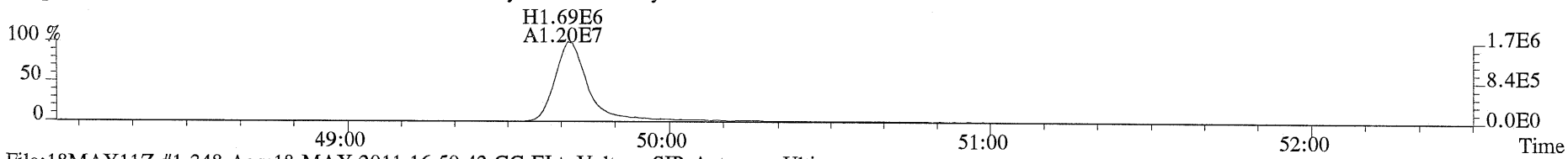
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



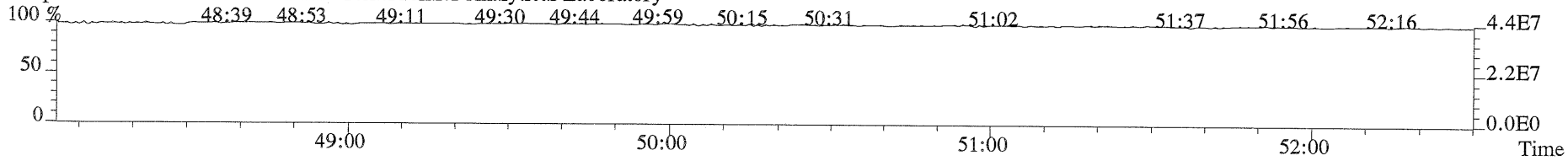
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



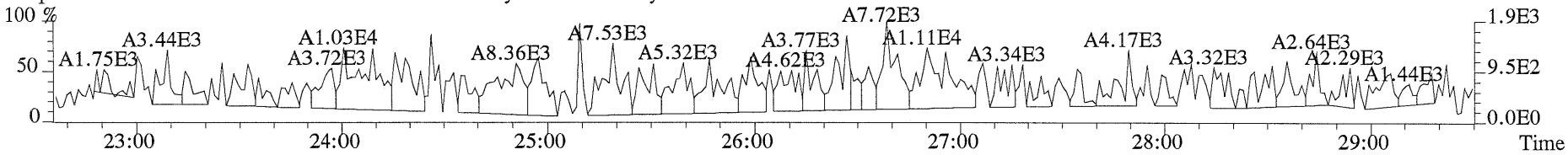
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



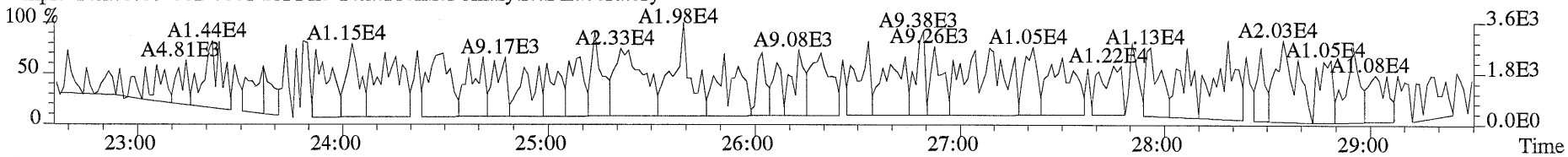
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:6 F:5 Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



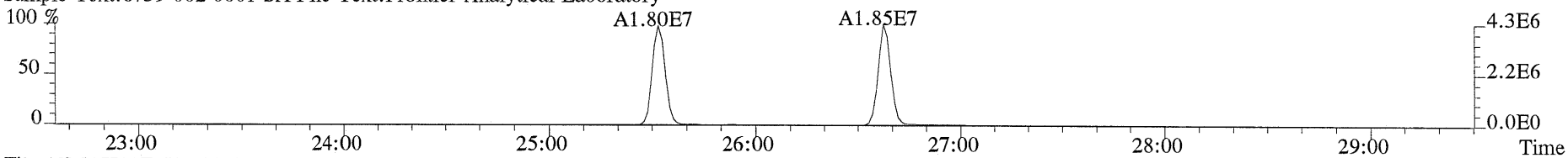
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



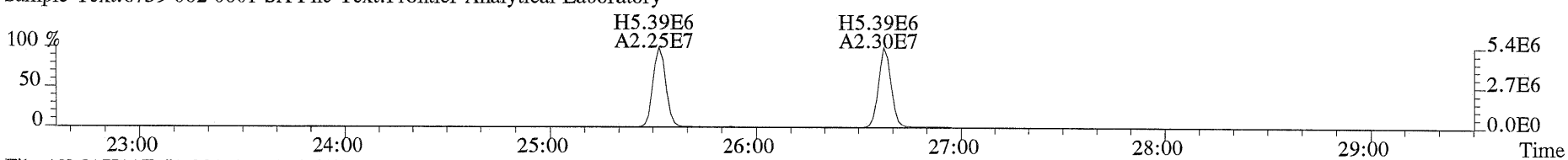
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



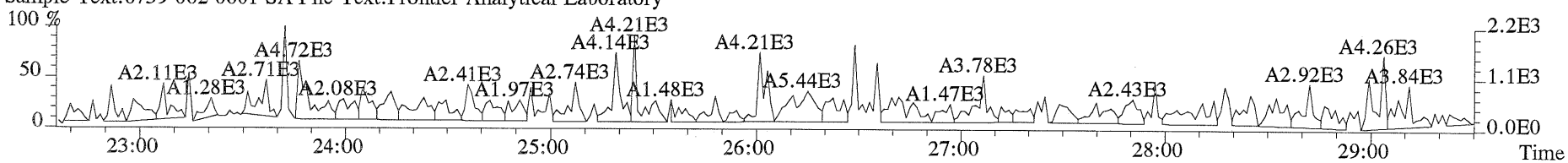
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



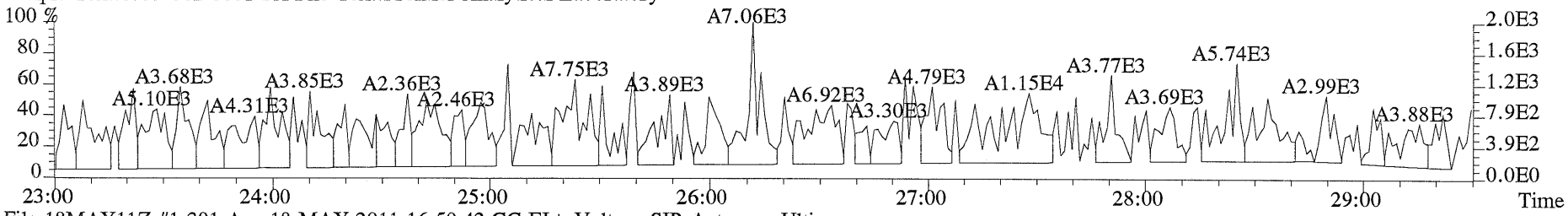
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



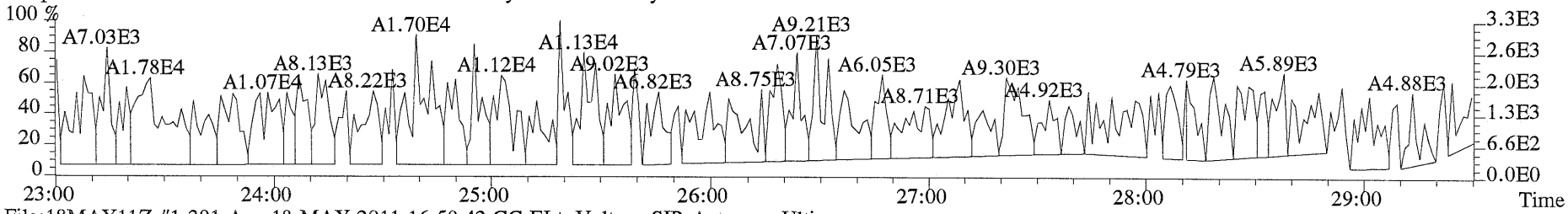
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



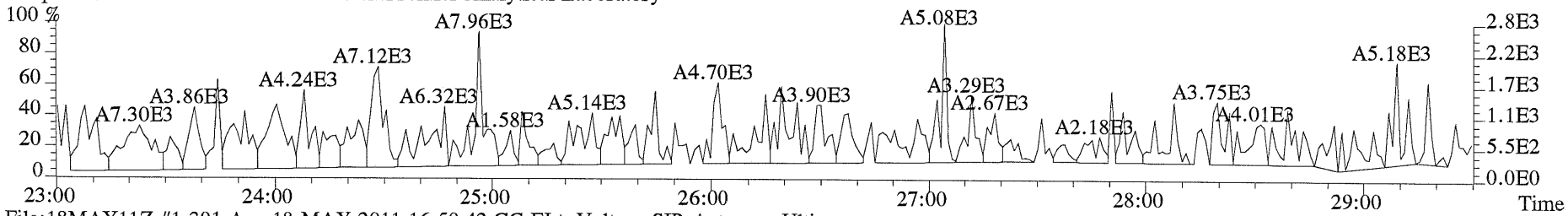
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



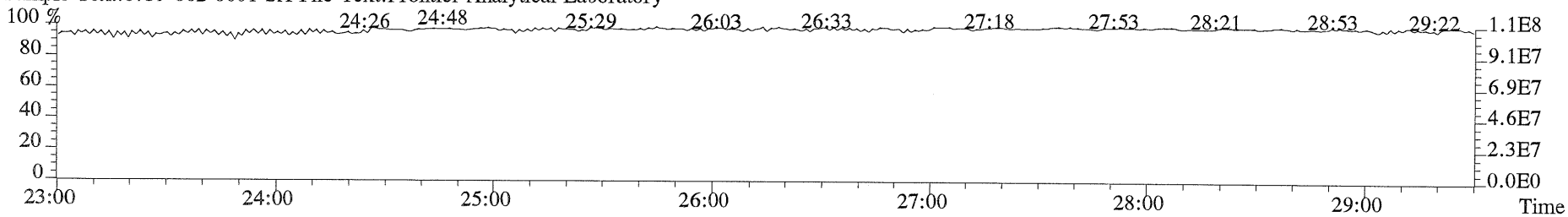
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



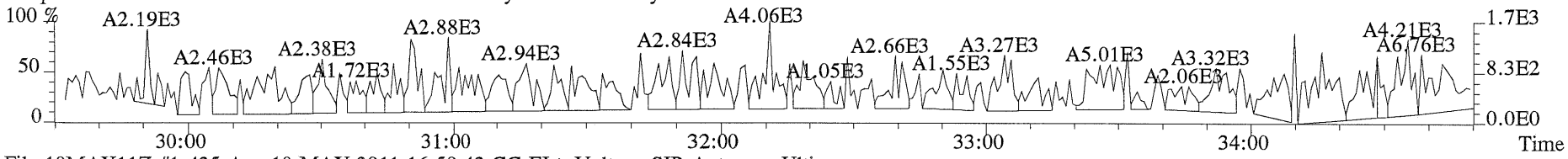
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



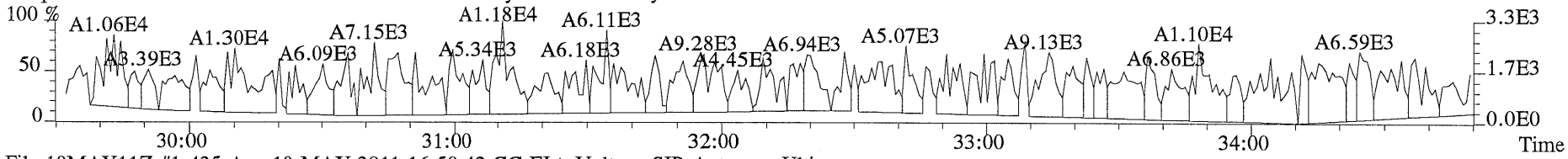
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:6 Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



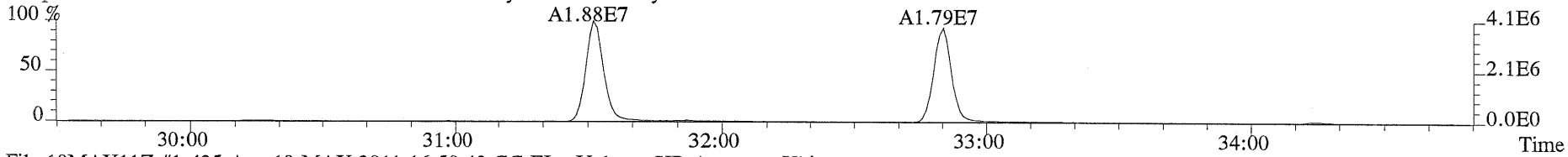
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



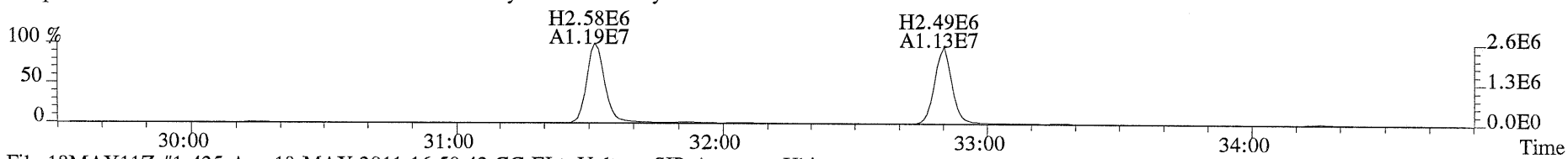
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



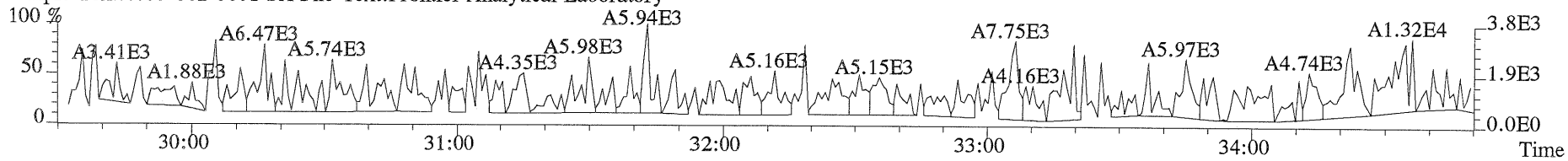
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



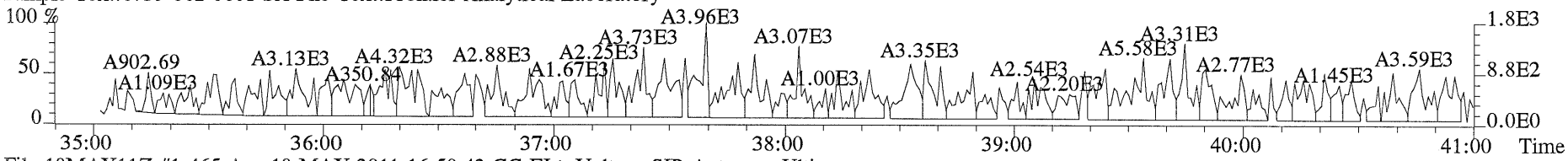
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



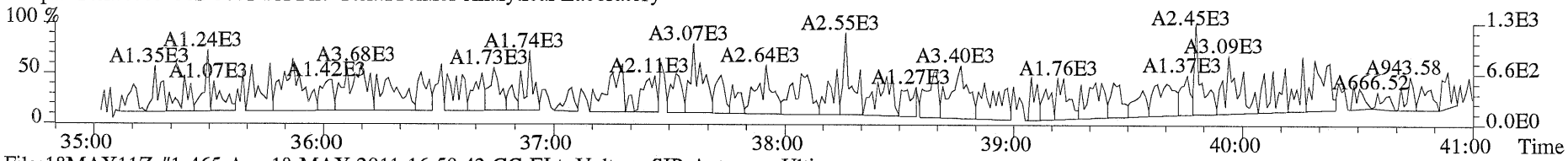
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



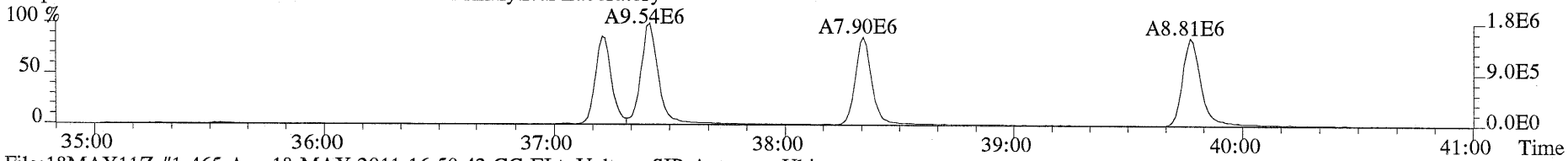
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



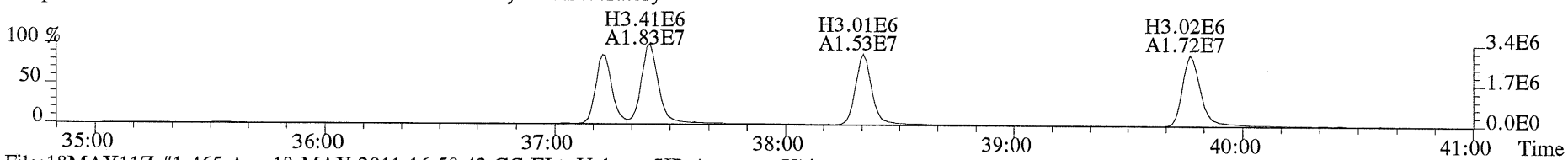
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



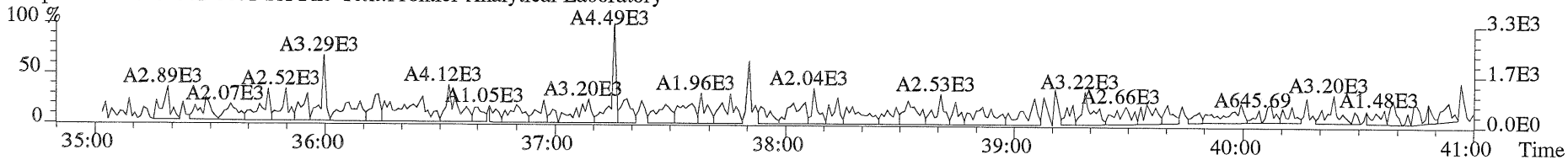
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



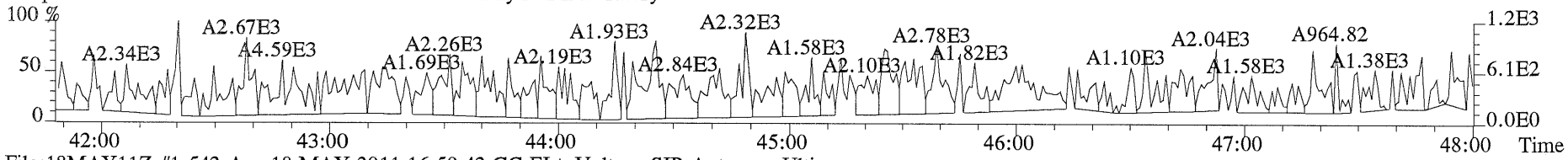
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



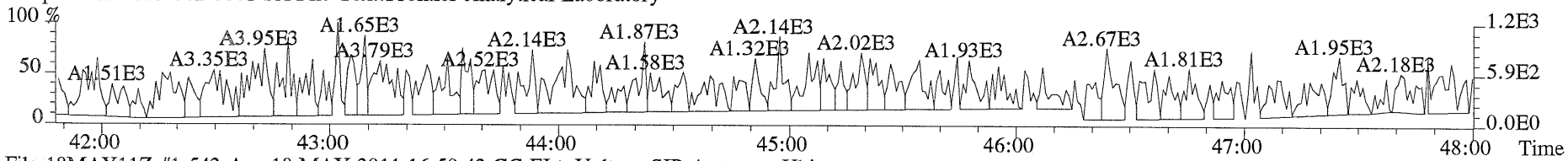
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



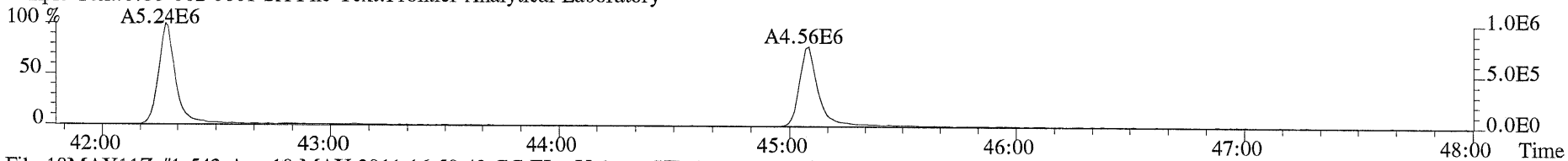
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



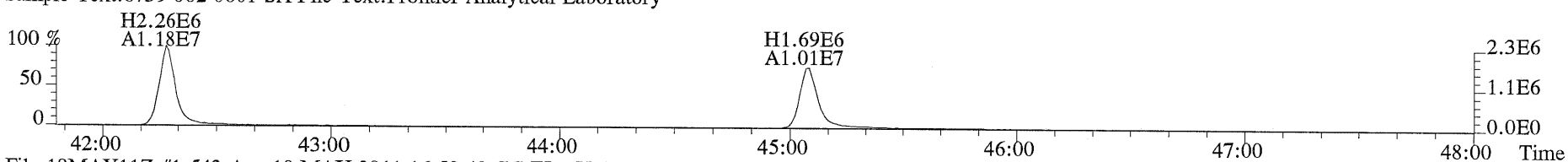
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



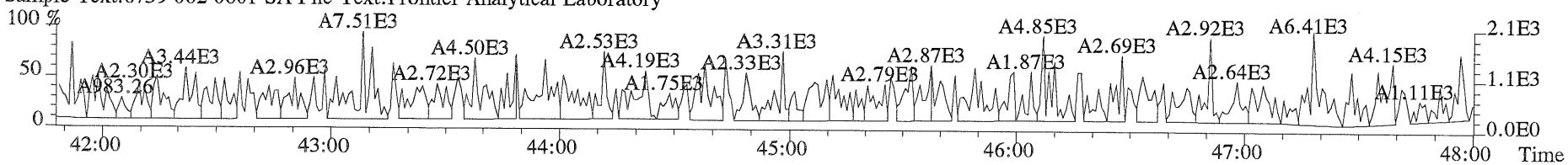
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



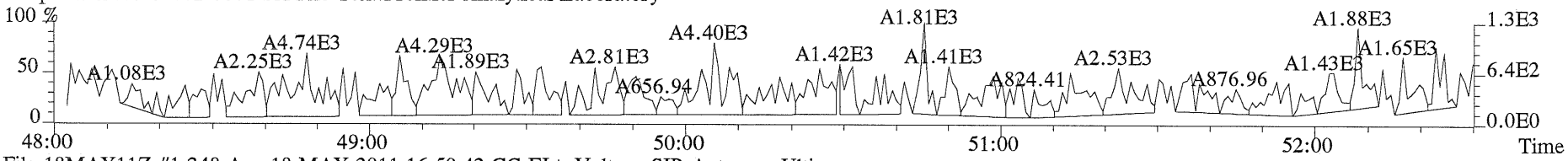
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



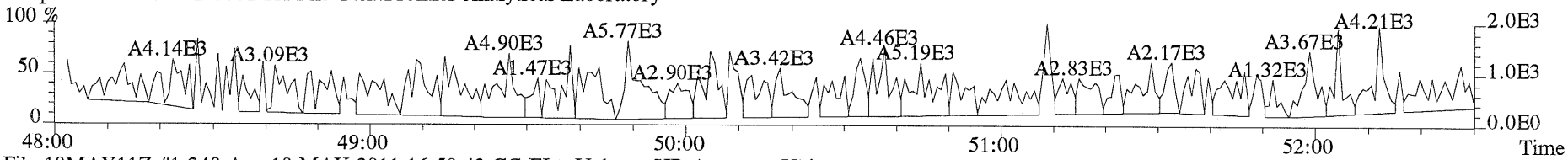
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



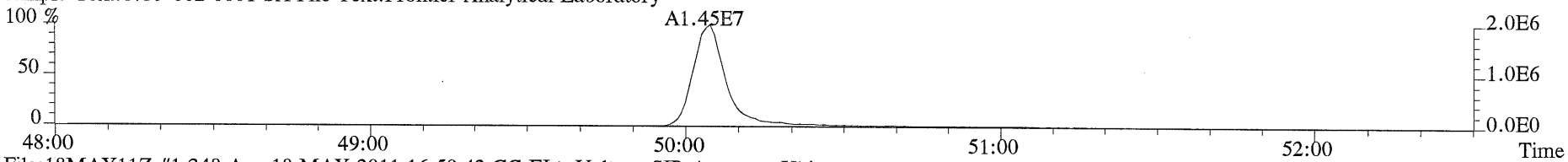
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



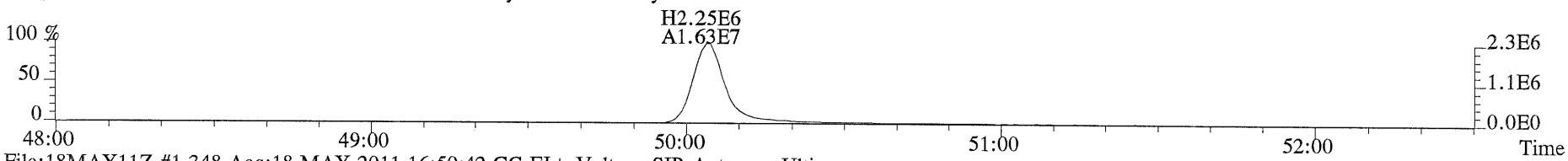
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



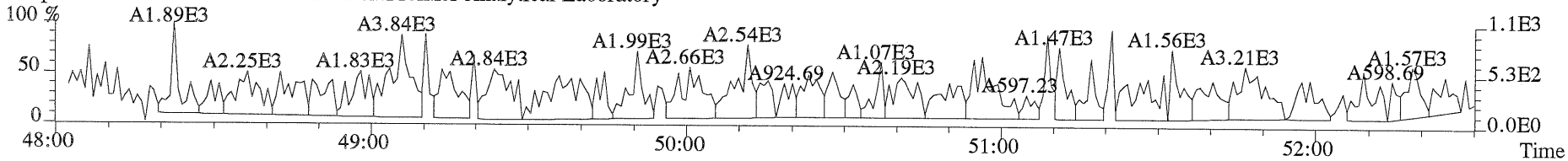
File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



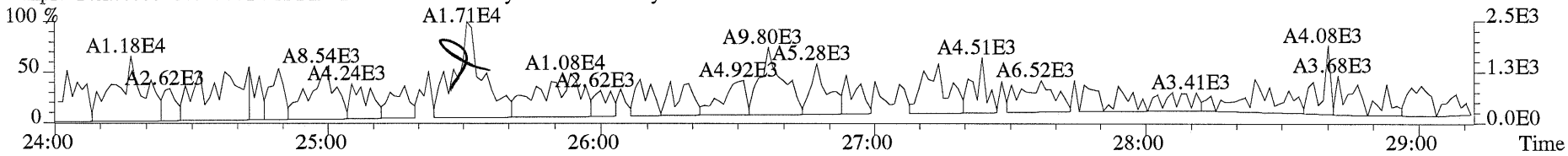
FAL ID: 6739-003-0001-SA Filename: 18MAY11Z Sam:7 Acquired: 18-MAY-11 17:45:30 ICal: PCDDFAL4-5-17-11
Client ID: MW13-042611 ConCal: ST051811Z1 EndCal: ST051811Z2
Results: 6739 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 0.00895
WHO 1998 Tox: 0.000894 WHO 2005 Tox: 0.00268

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	725	771	1.31
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	740	440	1.78
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	628	732	2.29
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	628	732	2.96
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	628	732	2.53
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	588	476	3.12
OCDD	3.85e+04	1.00 y	49:44	1.21	8.94	J	2.50	-	-	*
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	482	1030	1.01
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	448	864	1.50
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	448	864	1.56
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	628	420	1.56
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	628	420	1.55
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	628	420	1.54
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	628	420	1.39
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	484	468	1.72
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	484	468	2.23
OCDF	*	* n	NotFnd	0.97	*		2.50	304	476	3.04
										Rec
13C-2,3,7,8-TCDD	2.19e+07	0.80 y	27:24	0.99	1510					75.4
13C-1,2,3,7,8-PeCDD	1.55e+07	1.59 y	33:15	0.79	1330					66.5
13C-1,2,3,4,7,8-HxCDD	1.32e+07	1.28 y	38:35	1.03	1430					71.4
13C-1,2,3,6,7,8-HxCDD	1.15e+07	1.30 y	38:45	0.96	1340					67.0
13C-1,2,3,4,6,7,8-HpCDD	9.43e+06	1.07 y	44:10	0.75	1400					70.1
13C-OCDD	1.43e+07	0.88 y	49:41	0.50	3160					79.0
13C-2,3,7,8-TCDF	2.92e+07	0.79 y	26:38	0.98	1490					74.5
13C-1,2,3,7,8-PeCDF	2.12e+07	1.59 y	31:32	0.78	1370					68.3
13C-2,3,4,7,8-PeCDF	2.09e+07	1.60 y	32:50	0.75	1390					69.4
13C-1,2,3,4,7,8-HxCDF	1.38e+07	0.52 y	37:13	1.05	1460					73.1
13C-1,2,3,6,7,8-HxCDF	1.74e+07	0.51 y	37:24	1.40	1380					69.2
13C-2,3,4,6,7,8-HxCDF	1.52e+07	0.52 y	38:20	1.16	1460					73.0
13C-1,2,3,7,8,9-HxCDF	1.70e+07	0.51 y	39:47	1.30	1450					72.6
13C-1,2,3,4,6,7,8-HpCDF	1.08e+07	0.45 y	42:17	0.83	1450					72.6
13C-1,2,3,4,7,8,9-HpCDF	9.14e+06	0.44 y	45:04	0.69	1470					73.3
13C-OCDF	1.91e+07	0.88 y	50:04	0.77	2760					69.0
37Cl-2,3,7,8-TCDD	6.24e+06		27:25	0.71	598					74.7
13C-1,2,3,4-TCDD	2.94e+07	0.80 y	26:48	-	55.1					
13C-1,2,3,4-TCDF	4.00e+07	0.79 y	25:32	-	53.4					
13C-1,2,3,7,8,9-HxCDD	1.80e+07	1.29 y	39:13	-	46.5					

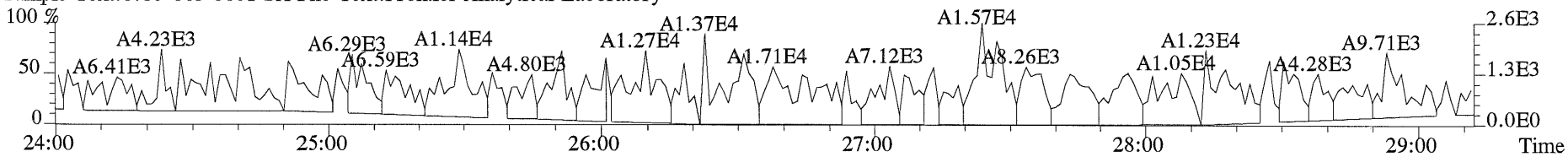
						Fac	Noise-1	Noise-2	DL		#Hom
Total Tetra-Dioxins	*		NotFnd	1.15	*	2.50	725	771	1.31		0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	740	440	1.78		0
Total Hexa-Dioxins	*		NotFnd	1.10	*	2.50	628	732	2.96		0
Total Hepta-Dioxins	*		NotFnd	1.03	*	2.50	588	476	3.12		0
Total Tetra-Furans	*		NotFnd	1.09	*	2.50	482	1030	1.01		0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*	2.50	448	864	1.56	PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*	2.50	448	864	1.56	0.00	0
Total Hexa-Furans	*		NotFnd	1.16	*	2.50	628	420	1.56		0
Total Hepta-Furans	*		NotFnd	1.36	*	2.50	484	468	2.23		0

Analyst: _____ Date: 5/19/11

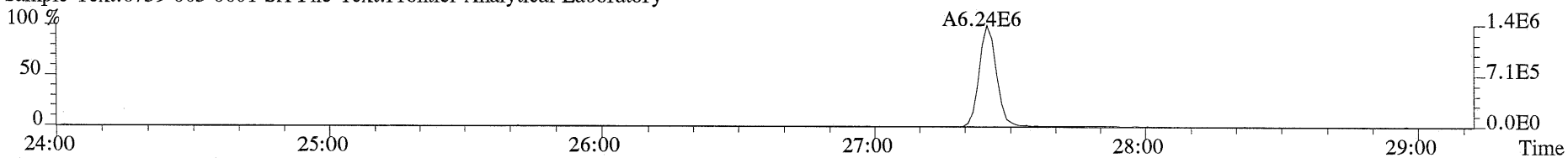
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



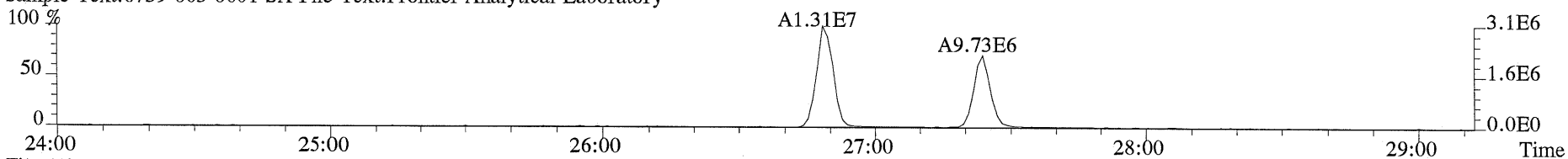
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



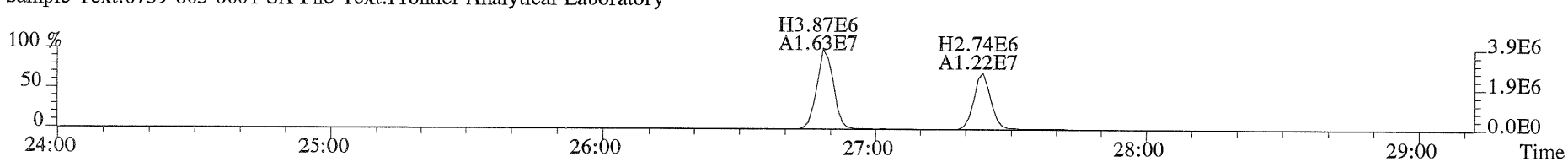
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



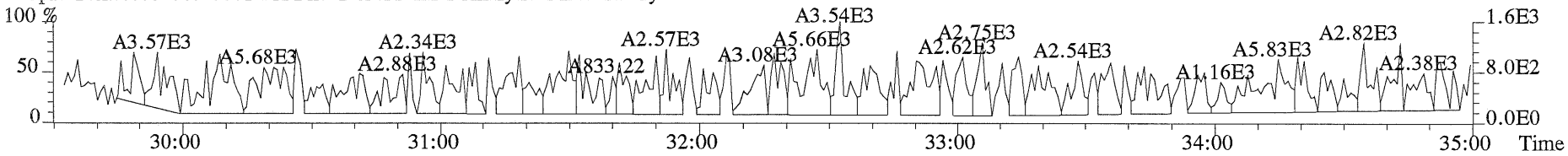
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



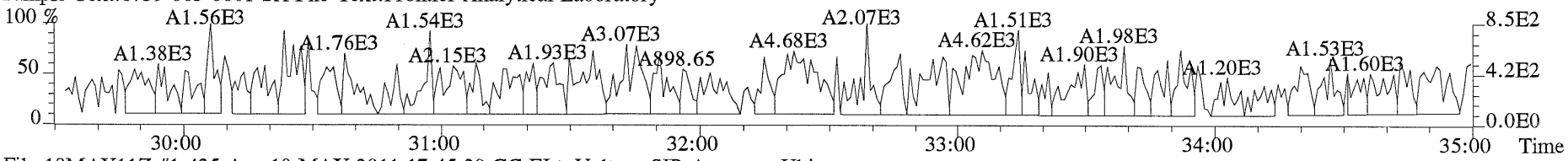
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



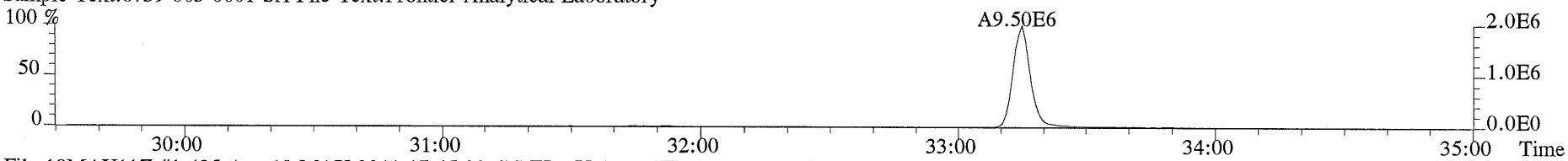
File:18MAY11Z #1-425 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



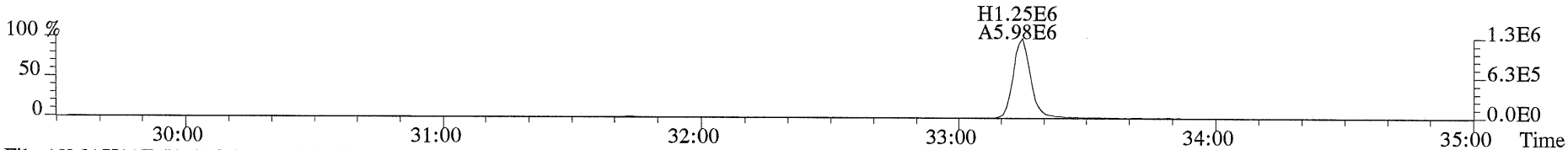
File:18MAY11Z #1-425 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



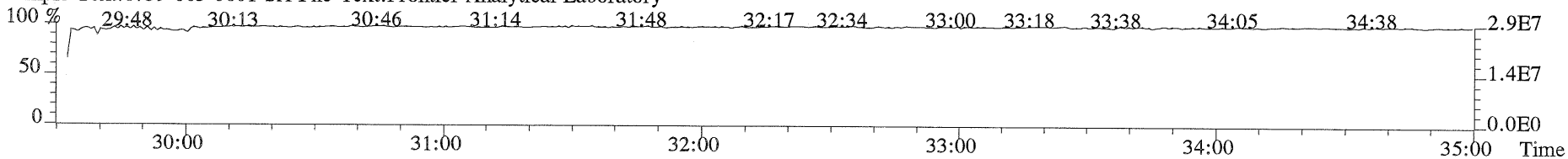
File:18MAY11Z #1-425 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



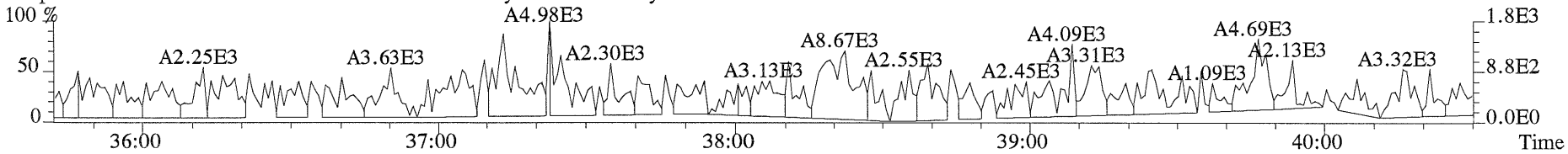
File:18MAY11Z #1-425 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



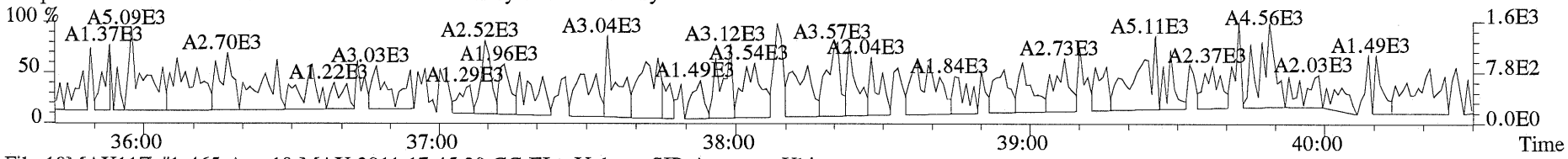
File:18MAY11Z #1-425 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:7 F:2 Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



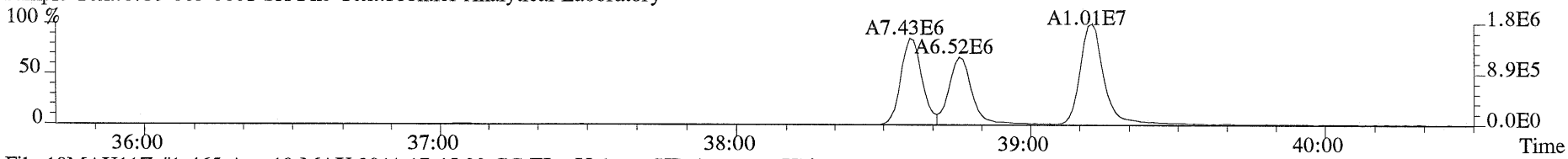
File:18MAY11Z #1-465 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



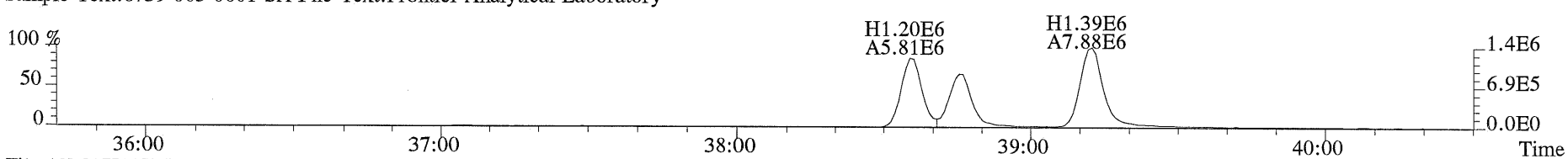
File:18MAY11Z #1-465 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



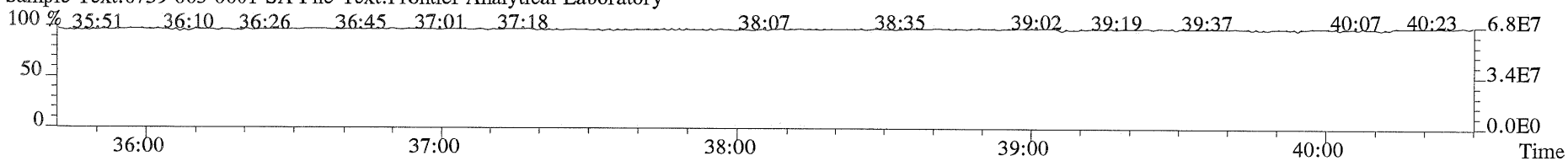
File:18MAY11Z #1-465 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



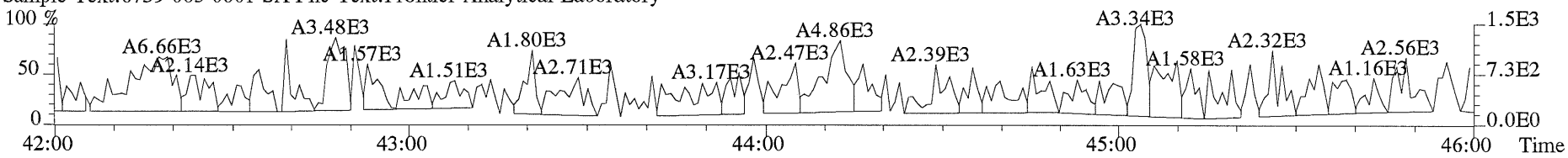
File:18MAY11Z #1-465 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



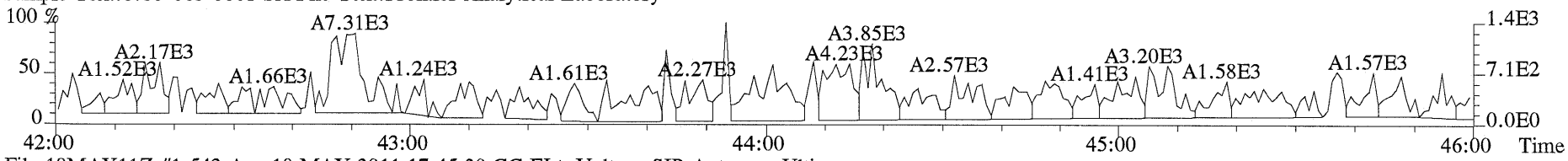
File:18MAY11Z #1-465 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:7 F:3 Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



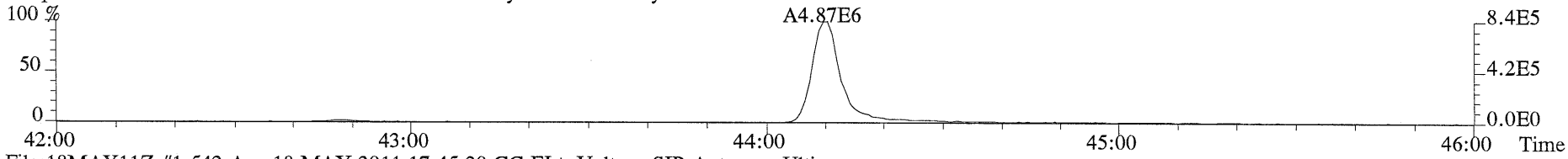
File:18MAY11Z #1-542 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:7 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



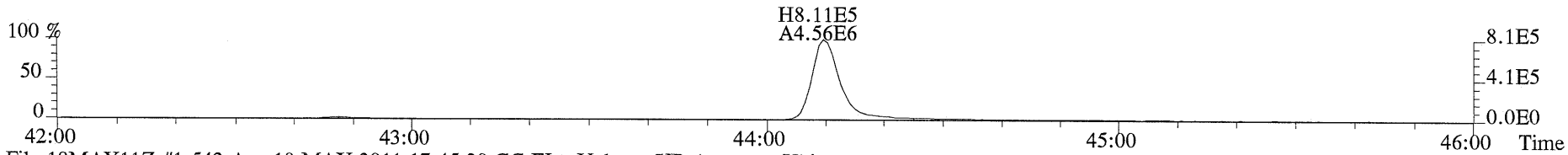
File:18MAY11Z #1-542 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:7 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



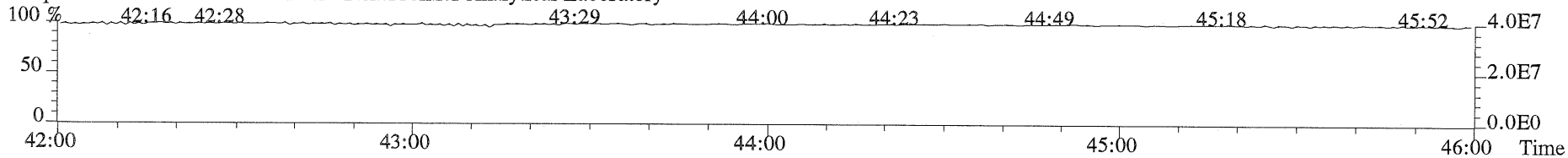
File:18MAY11Z #1-542 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:7 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



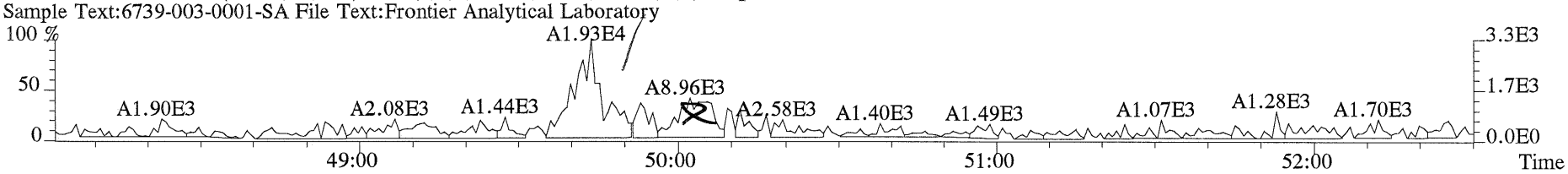
File:18MAY11Z #1-542 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:7 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



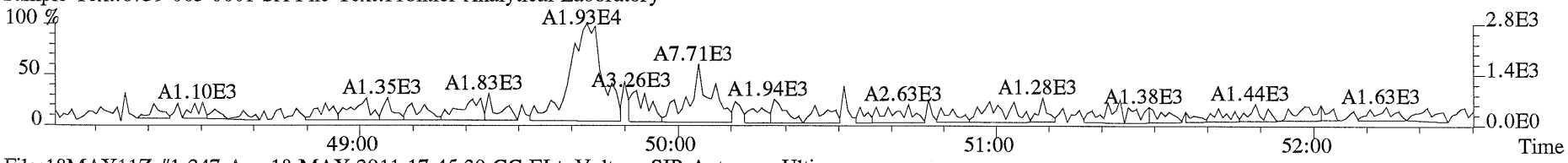
File:18MAY11Z #1-542 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:7 F:4 Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



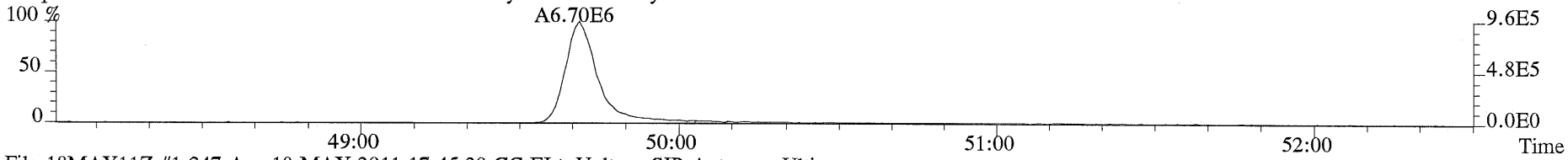
File:18MAY11Z #1-347 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



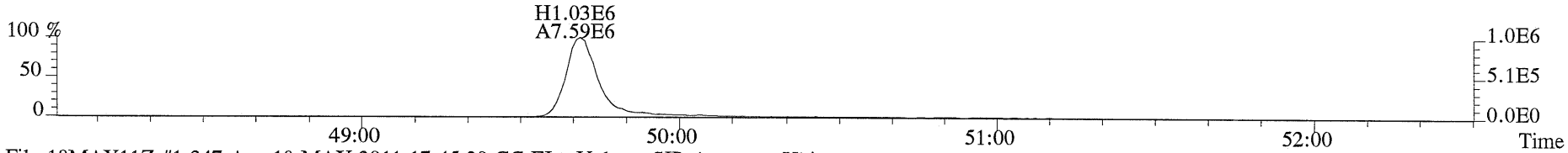
File:18MAY11Z #1-347 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



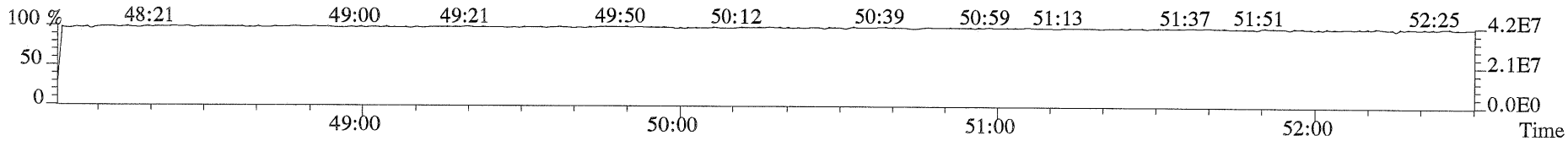
File:18MAY11Z #1-347 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



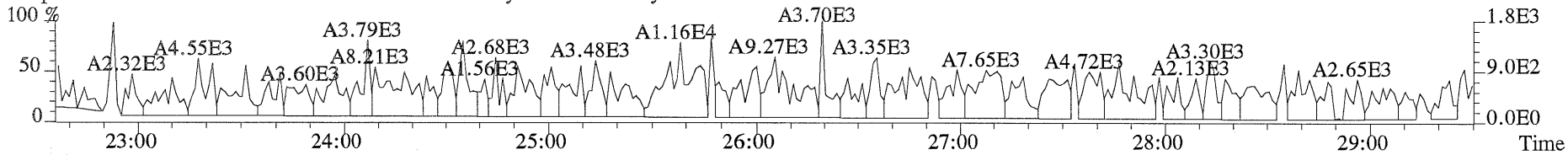
File:18MAY11Z #1-347 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



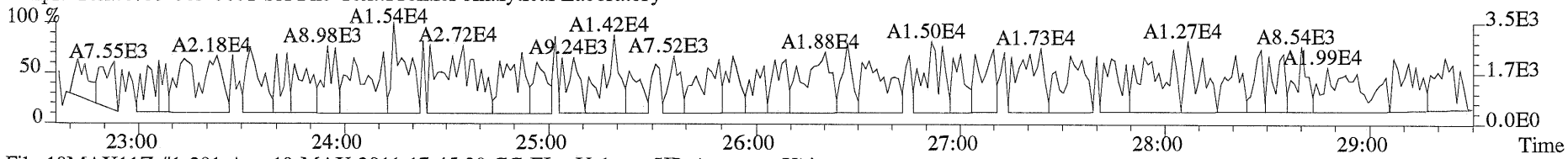
File:18MAY11Z #1-347 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:7 F:5 Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



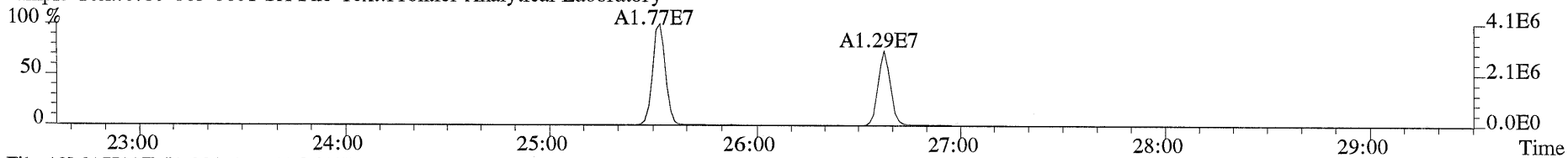
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



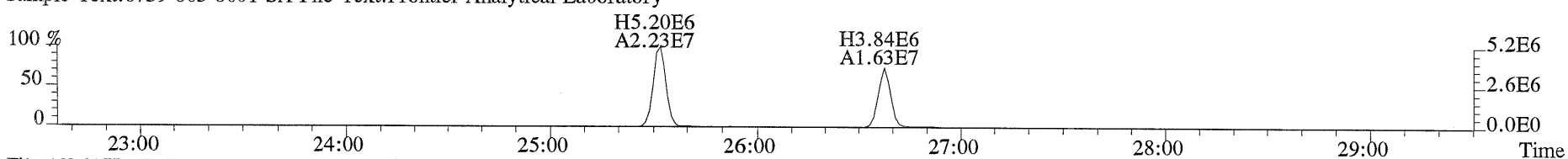
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory