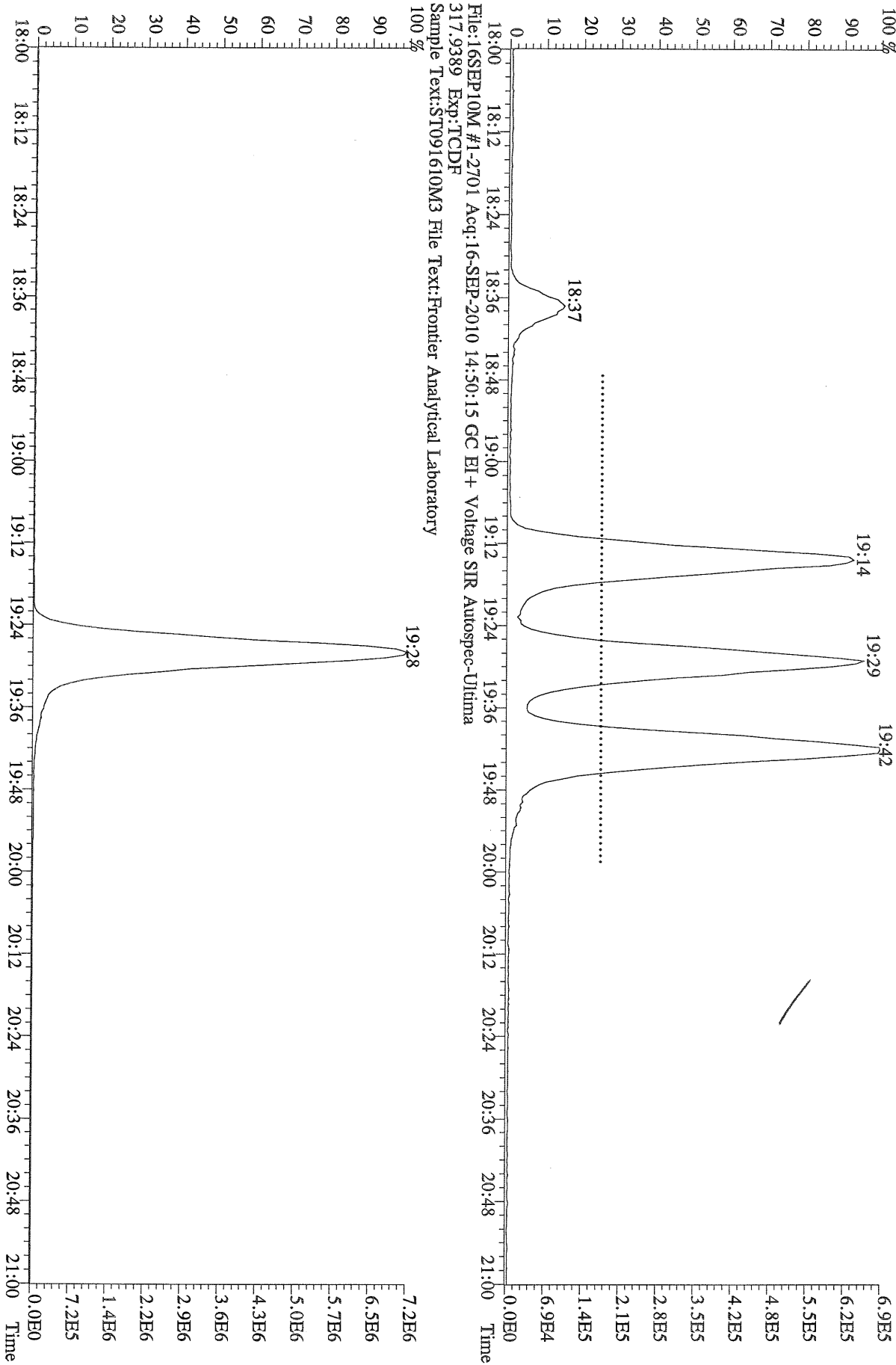
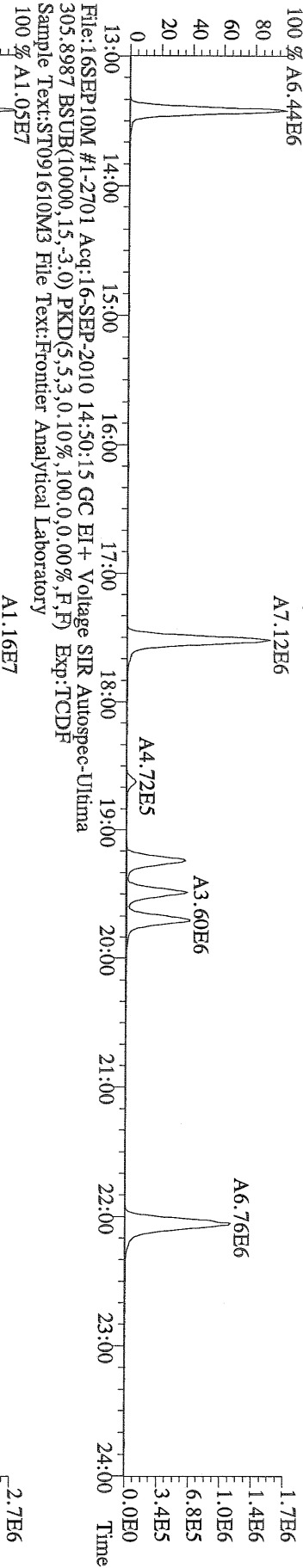


File:16SEP10M #1-2701 Acq:16-SEP-2010 14:50:15 GC EI + Voltage SIR Autospec-Utima  
303.9016 Exp:TCDF  
Sample Text:ST091610M3 File Text:Frontier Analytical Laboratory

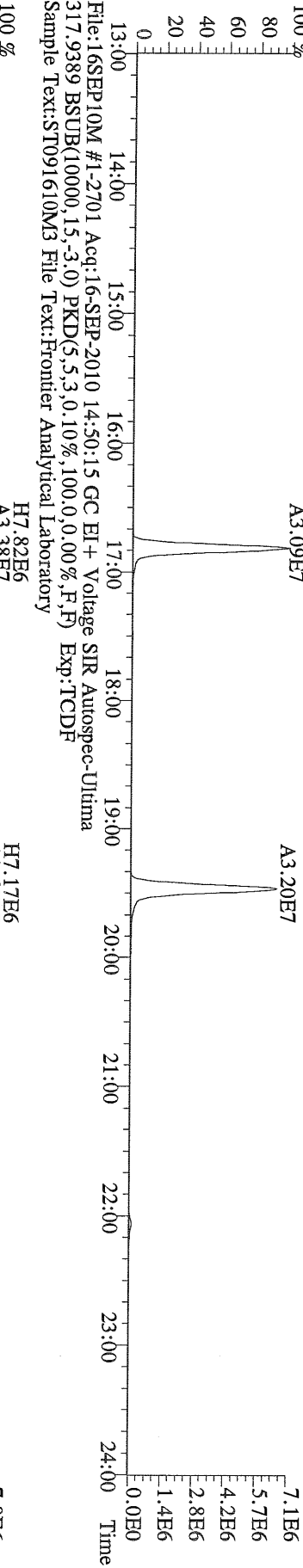


File:16SEP10M #1-2701 Acq:16-SEP-2010 14:50:15 GC EI + Voltage SIR Autospec-Utima  
317.9389 Exp:TCDF  
Sample Text:ST091610M3 File Text:Frontier Analytical Laboratory

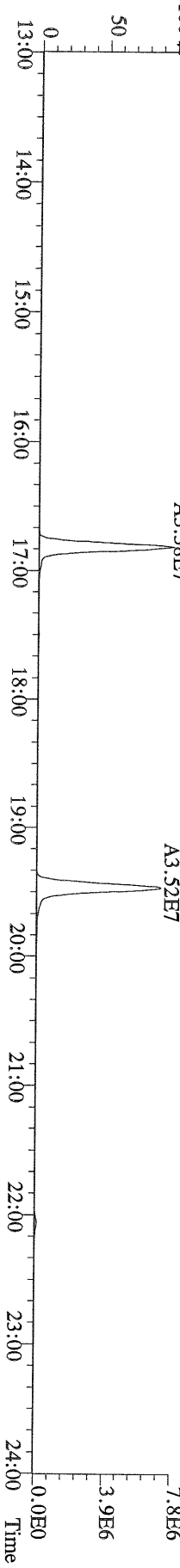
File:16SEP10M #1-2701 Acq:16-SEP-2010 14:50:15 GC EI+ Voltage SIR Autospec-Utima  
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:TCDF  
 Sample Text:ST091610M3 File Text:Frontier Analytical Laboratory  
 100% A6.44E6



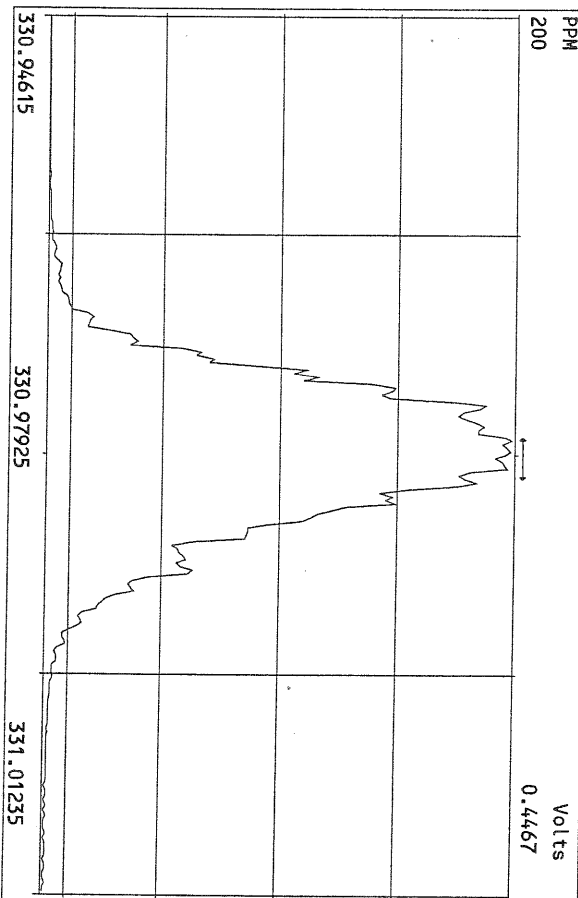
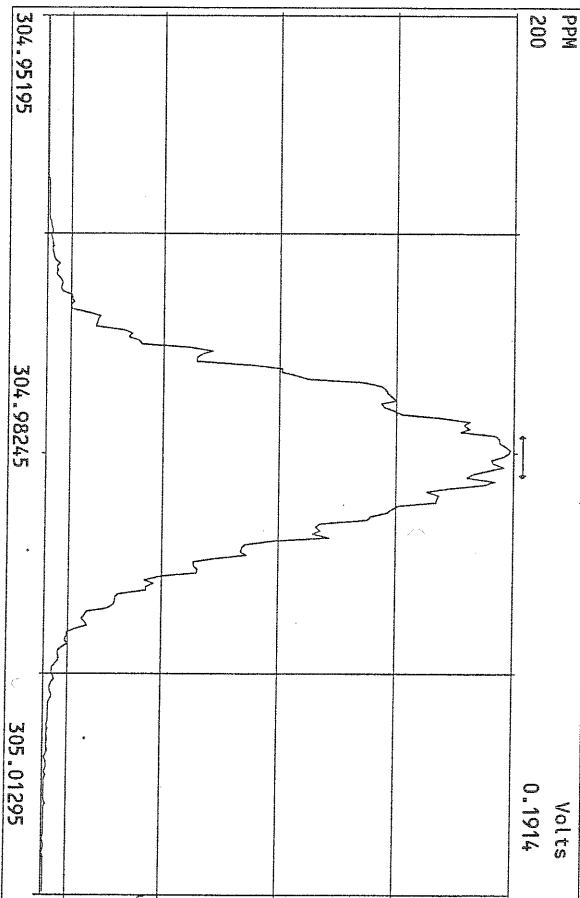
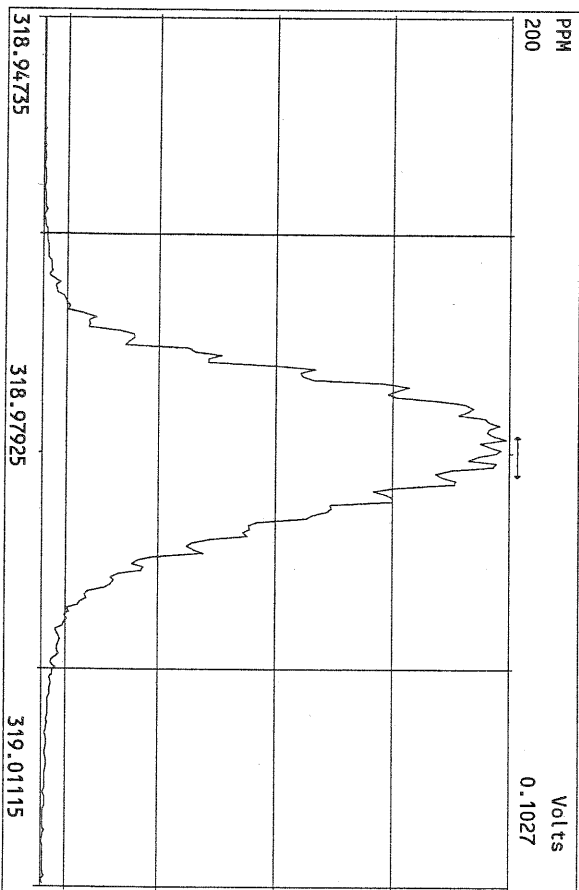
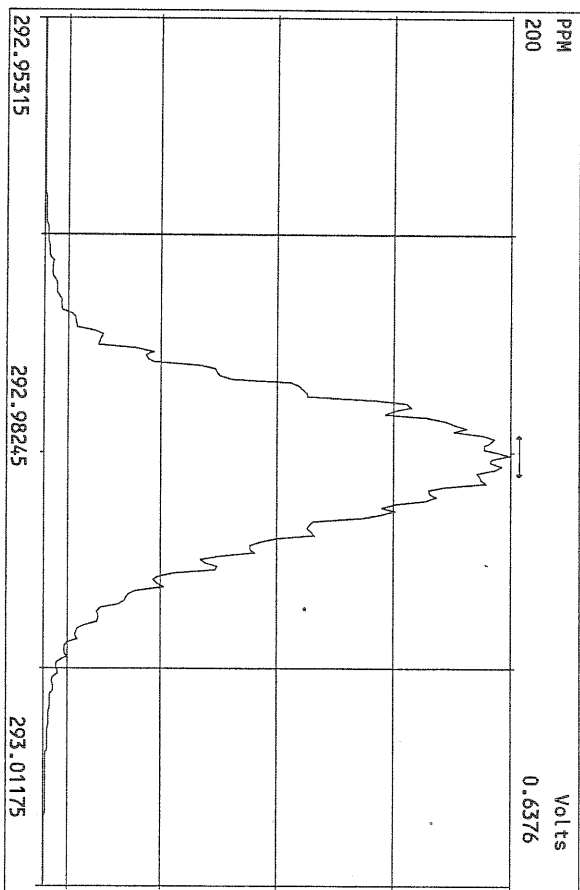
File:16SEP10M #1-2701 Acq:16-SEP-2010 14:50:15 GC EI+ Voltage SIR Autospec-Utima  
 305.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:TCDF  
 Sample Text:ST091610M3 File Text:Frontier Analytical Laboratory  
 100% A3.09E7



File:16SEP10M #1-2701 Acq:16-SEP-2010 14:50:15 GC EI+ Voltage SIR Autospec-Utima  
 317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:TCDF  
 Sample Text:ST091610M3 File Text:Frontier Analytical Laboratory



Peak Locate Examination:16-SEP-2010:23:33 File:16SEP10M\_RES\_CHECK  
Experiment:TCDF Function:1 Reference:PFK



## USEPA - ITD

FORM 4A  
TCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/16/10

Instrument ID: FAL1

GC Column ID: DB225

VER Data Filename: 16SEP10M Sam:14


Analysis Date: 16-SEP-10 Time: 23:01:57

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
NATIVE ANALYTES						
2,3,7,8-TCDF	M/M+2	0.67	0.65-0.89	y	9.46	8.40 - 12.0 ✓
LABELED COMPOUNDS						
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	92.6	71.0 - 140 ✓

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6A, Method 1613

Analyst: Date: 9/17/10



FAL ID: ST091610M6      Filename: 16SEP10M    Sam:14    Acquired: 16-SEP-10 23:01:57    ICal: TCDFFAL3-9-16-10  
Client ID: 1613 CS3 100511J      ConCal: ST091610M3    EndCal: ST091610M6  
Results:      GC Column: DB225    Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	#Hom	Rec
2,3,7,8-TCDF	5.94e+06	0.67 y	19:23	1.28	9.46		2.50	-	-	1	
13C-2,3,7,8-TCDF	4.92e+07	0.86 y	19:22	1.10	92.6						92.6
13C-1,2,3,4-TCDF	4.85e+07	0.88 y	16:43	-	77.0						

Analyst: 

Date: 9/17/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:16SEP10M

Instrument: FAL3

GC: DB225

Experiment:TCDF

Data File S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
16SEP10M 1	ST091610M3	1613 CS3 100511J	16-SEP-10 14:50:15	ST091610M3	ST091610M6	TC
16SEP10M 2	ST091610M1	1613 CS1 100511H	16-SEP-10 15:28:03	NA	NA	TC
16SEP10M 3	ST091610M2	1613 CS2 100511I	16-SEP-10 16:05:52	NA	NA	TC
16SEP10M 4	ST091610M4	1613 CS4 100511K	16-SEP-10 16:43:45	NA	NA	TC
16SEP10M 5	ST091610M5	1613 CS5 100511L	16-SEP-10 17:21:38	NA	NA	TC
16SEP10M 6	SB091610M1	Solvent Blank	16-SEP-10 17:59:27	NA	NA	TC
16SEP10M 7	6327-003-0001-SA	MW-28	16-SEP-10 18:37:16	ST091610M3	ST091610M6	TC
16SEP10M 8	6327-004-0001-SA	MW-29	16-SEP-10 19:15:04	ST091610M3	ST091610M6	TC
16SEP10M 9	6327-006-0001-SA	MW-51	16-SEP-10 19:52:53	ST091610M3	ST091610M6	TC
<del>16SEP10M 10</del>	<del>6329-011-0001-SA</del>	<del>PZ-2</del>	<del>16-SEP-10 20:30:43</del>	<del>ST091610M3</del>	<del>ST091610M6</del>	<del>TC</del>
16SEP10M 11	6331-006-0001-SA	PSB16-0-0.5-082510	16-SEP-10 21:08:31	ST091610M3	ST091610M6	TC
16SEP10M 12	6332-003-0001-SA	PSB18-0-0.5-082610	16-SEP-10 21:46:20	ST091610M3	ST091610M6	TC
16SEP10M 13	SB091610M2	Solvent Blank	16-SEP-10 22:24:09	ST091610M3	ST091610M6	TC
16SEP10M 14	ST091610M6	1613 CS3 100511J	16-SEP-10 23:01:57	ST091610M3	ST091610M6	TC

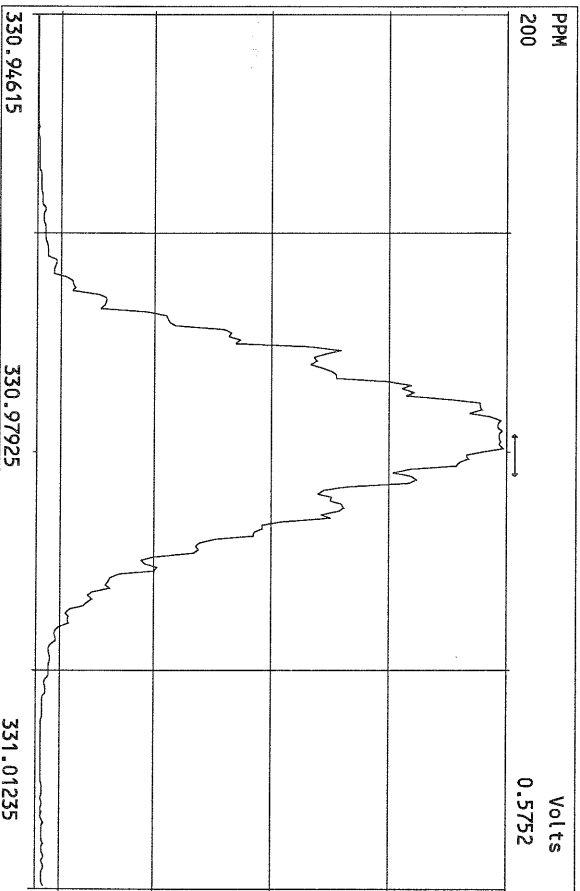
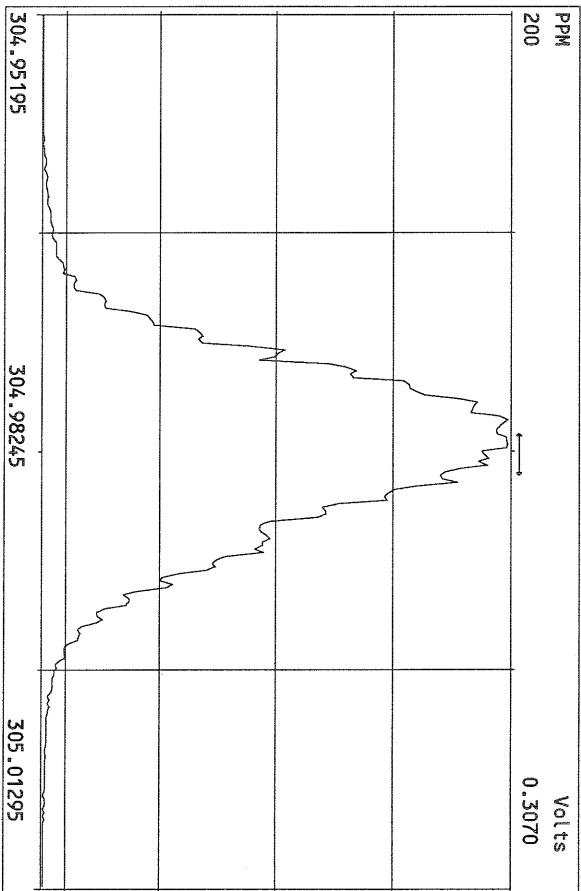
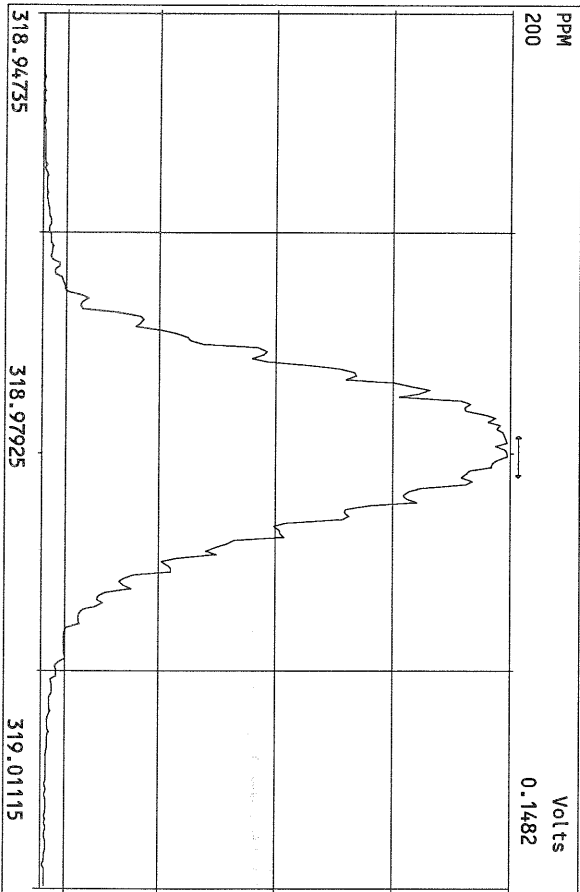
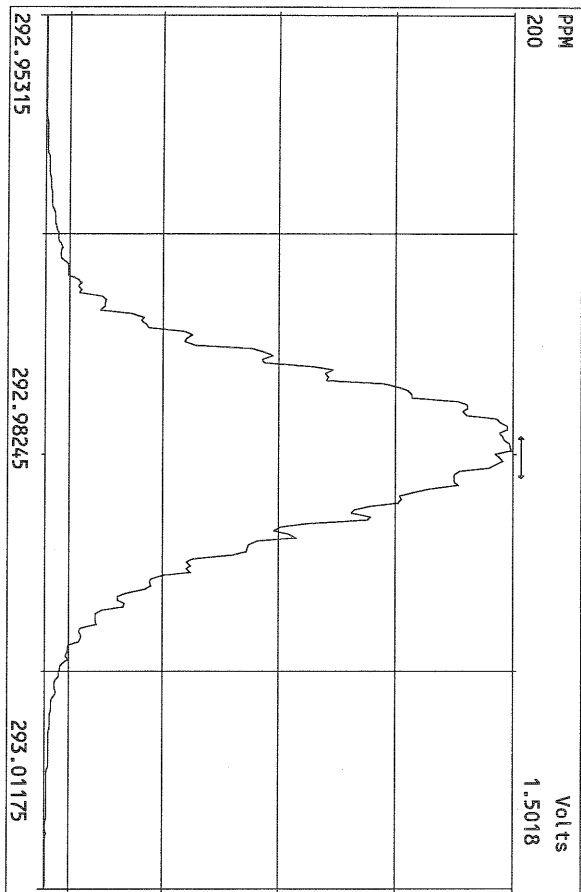


9/17/10

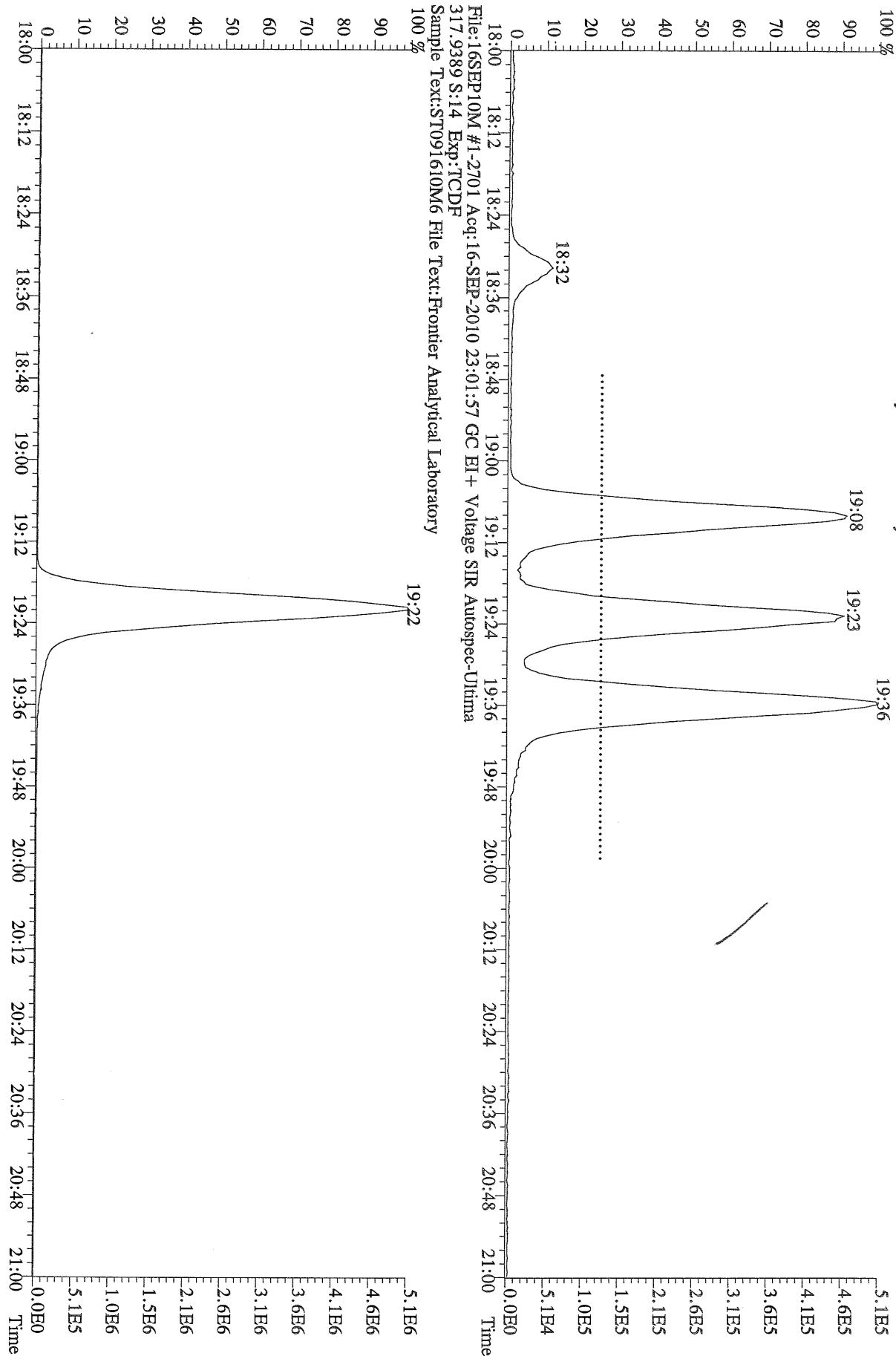
BAD injection  
 Reshoot  
 9/17/10

Data Backed Up: \_\_\_\_\_

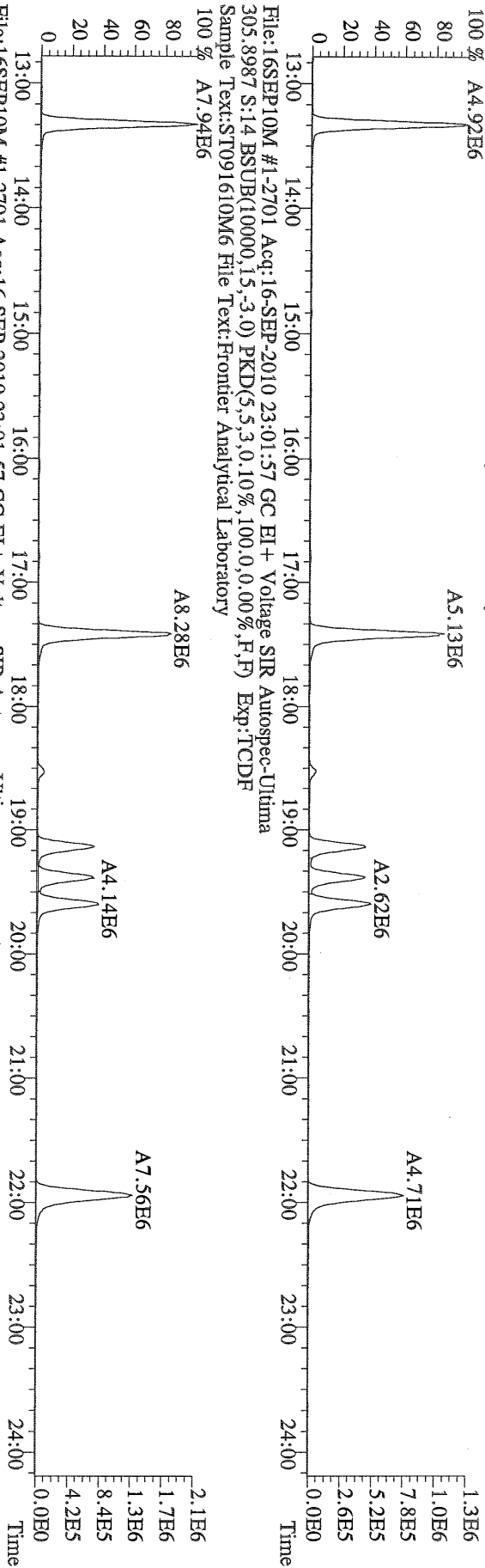
Date: \_\_\_\_\_



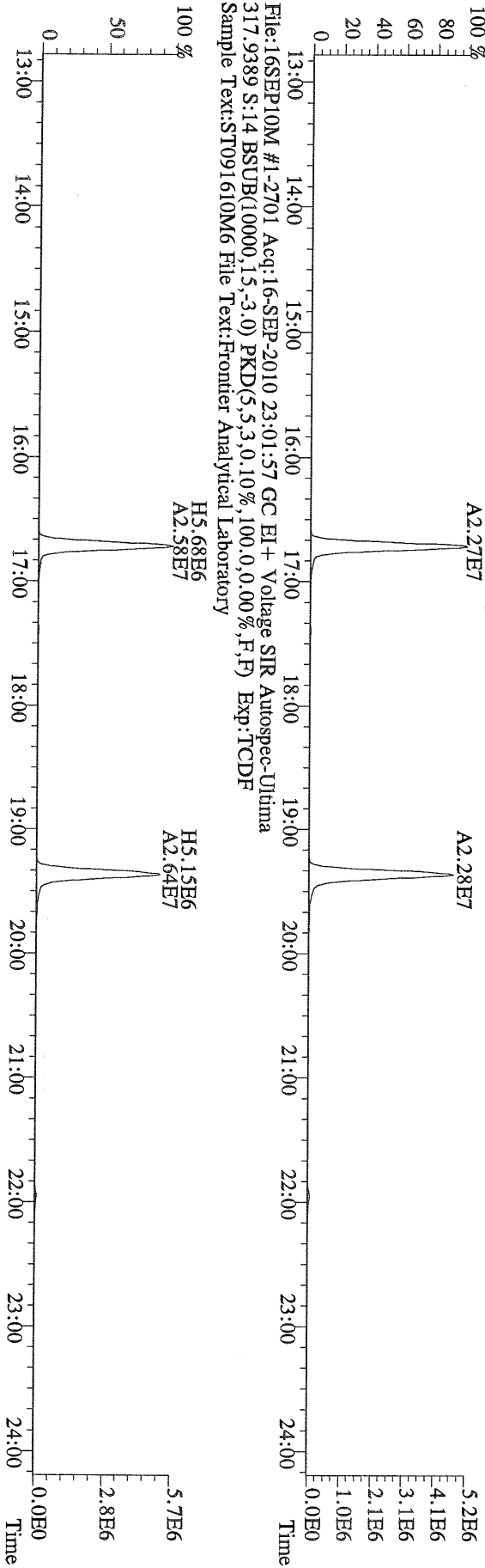
File:16SEP10M #1-2701 Acq:16-SEP-2010 23:01:57 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:14 Exp:TCDF  
Sample Text:ST091610M6 File Text:Frontier Analytical Laboratory



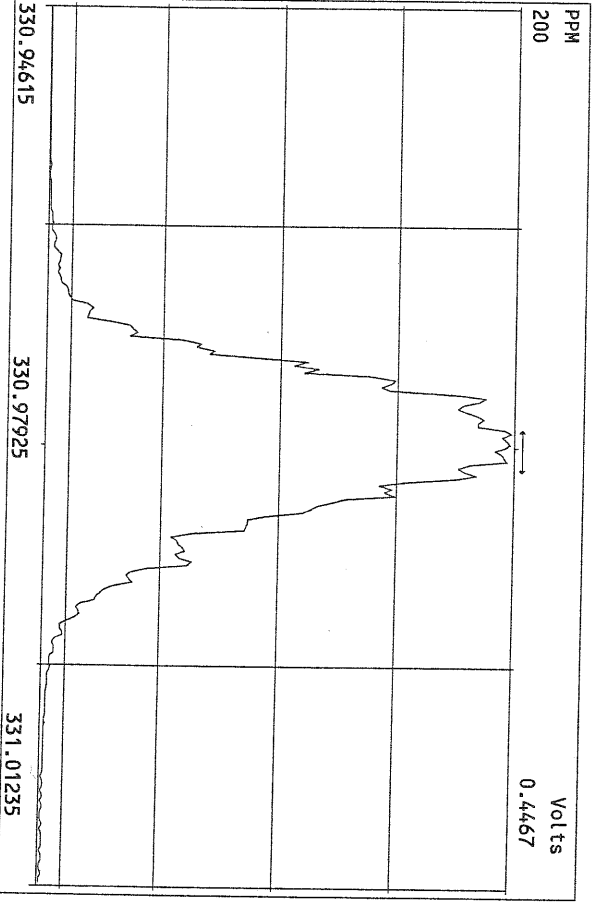
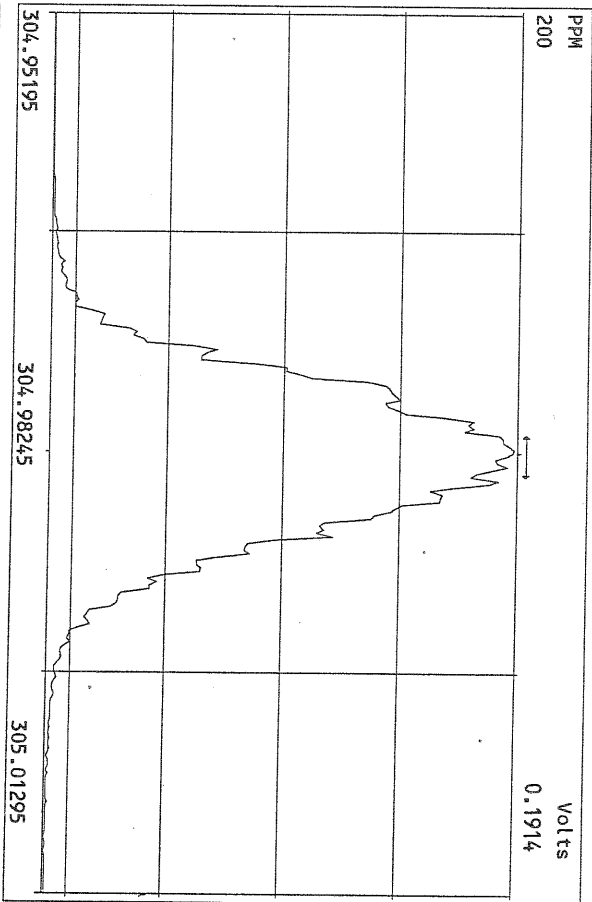
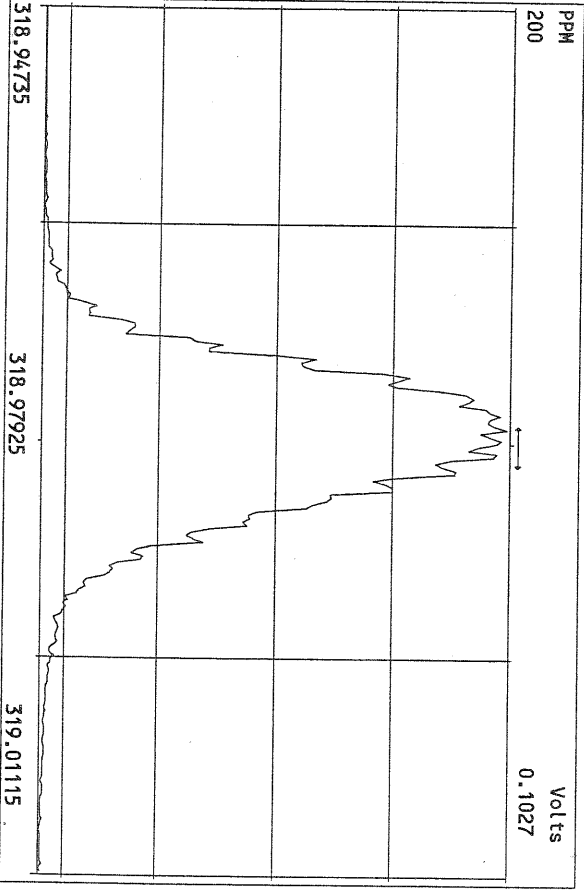
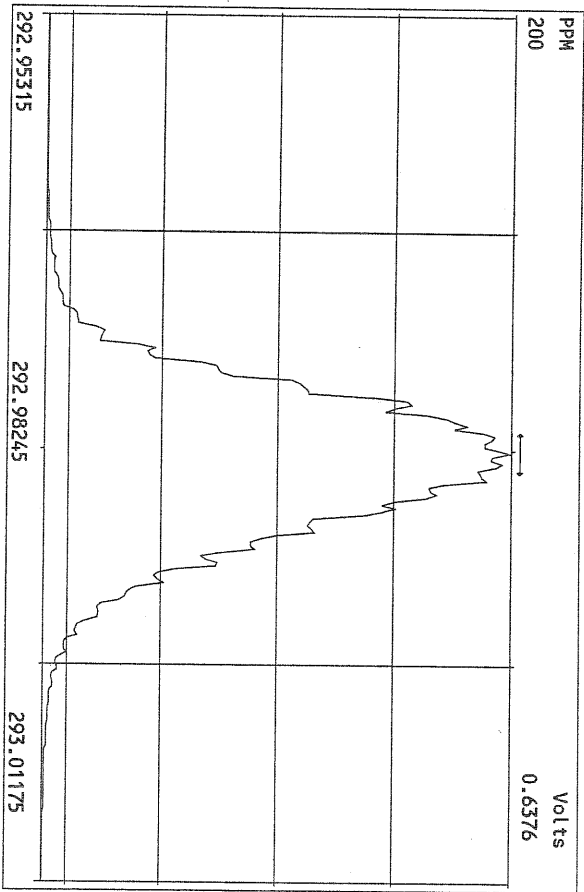
File:16SEP10M #1-2701 Acq:16-SEP-2010 23:01:57 GC EI+ Voltage SIR Autospec-Utima  
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
Sample Text:ST091610M6 File Text:Frontier Analytical Laboratory  
100% A4.92E6



File:16SEP10M #1-2701 Acq:16-SEP-2010 23:01:57 GC EI+ Voltage SIR Autospec-Utima  
315.9419 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
Sample Text:ST091610M6 File Text:Frontier Analytical Laboratory  
100% A2.27E7



Peak Locate Examination: 16-SEP-2010:23:33 File: 16SEP10M\_RES\_CHECK  
Experiment: TCDF Function: 1 Reference: PFK



September 22, 2010

**FAL Project: 6331**

Ms. Sue Dunninghoo  
Analytical Resources Incorporated  
4611 South 134<sup>th</sup> Place  
Tukwila, WA 98168-3240

Dear Ms. Dunninghoo,

Enclosed are the results for Frontier Analytical Laboratory project **6331**. This corresponds to your **Lora Lakes Apts RI** project under ARI project number **RK83**. Nine soil samples were received on 8/31/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6331**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet, and the cleanup bench sheet. The Instrument Raw Data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The Level I summary and the Electronic Data Deliverables (EDDs) have been sent to you via email. A compact disk 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 **6331**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

  
Bradley B. Silverbush  
Director of Operations

## Frontier Analytical Laboratory

### Sample Tracking Log

FAL Project ID: **6331**

Received on: **08/31/2010**

Project Due: **09/23/2010**

Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6331-001-SA	0	RK83	PSB20-0-0.5-082510	EPA 1613 D/F	Soil	08/25/2010	10:55 am	08/25/2011
6331-002-SA	0	RK83	PSB20-2-4-082510	EPA 1613 D/F	Soil	08/25/2010	10:25 am	08/25/2011
6331-003-SA	0	RK83	PSB20-1.5-2-082510	EPA 1613 D/F	Soil	08/25/2010	10:45 am	08/25/2011
6331-004-SA	0	RK83	PSB20-2-4-082510-DUP	EPA 1613 D/F	Soil	08/25/2010	10:25 am	08/25/2011
6331-005-SA	0	RK83	PSB16-2-4-082510	EPA 1613 D/F	Soil	08/25/2010	12:20 pm	08/25/2011
6331-006-SA	0	RK83	PSB16-0-0.5-082510	EPA 1613 D/F	Soil	08/25/2010	12:25 pm	08/25/2011
6331-007-SA	0	RK83	PSB16-1-2-082510	EPA 1613 D/F	Soil	08/25/2010	11:55 am	08/25/2011
6331-008-SA	0	RK83	PSB16-4-6-082510	EPA 1613 D/F	Soil	08/25/2010	12:00 pm	08/25/2011
6331-009-SA	0	RK83	PSB16-13-15-082510	EPA 1613 D/F	Soil	08/25/2010	12:10 pm	08/25/2011



EPA Method 1613  
PCDD/F



FAL ID: 6331-001-MB  
Client ID: Method Blank  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: NA  
Amount: 5.00 g

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-14-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.188		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.260		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.353		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.470		-	0.0586	Total TCDD	ND	0.188	
1,2,3,7,8,9-HxCDD	ND	0.409		-	0.0529	Total PeCDD	ND	0.260	
1,2,3,4,6,7,8-HpCDD	ND	0.557		-	0.0954	Total HxCDD	ND	0.470	
OCDD	ND	1.40		-	0.154	Total HpCDD	ND	0.557	
2,3,7,8-TCDF	ND	0.122		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.222		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.231		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.286		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.270		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.328		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.322		-	0.0387	Total TCDF	ND	0.122	
1,2,3,4,6,7,8-HpCDF	ND	0.363		-	0.0418	Total PeCDF	ND	0.231	
1,2,3,4,7,8,9-HpCDF	ND	0.454		-	0.0429	Total HxCDF	ND	0.328	
OCDF	ND	1.27		-	0.105	Total HpCDF	ND	0.454	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	88.2	25.0 - 164	
13C-1,2,3,7,8-PeCDD	118	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	96.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	89.3	23.0 - 140	
13C-OCDD	66.6	17.0 - 157	
13C-2,3,7,8-TCDF	91.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	97.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	97.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	84.3	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	83.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	76.8	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	80.8	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	84.4	26.0 - 138	
13C-OCDF	66.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 90.9 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: [Signature]  
Date: 9/15/10

Reviewed By: DN  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-001-OPR  
Client ID: OPR  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: NA  
Amount: 5.00 g

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: ng/ml

Acquired: 09-14-2010  
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.2	6.70 - 15.8	
1,2,3,7,8-PeCDD	51.0	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	49.0	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	48.0	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	51.7	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	44.8	35.0 - 70.0	
OCDD	98.2	78.0 - 144	
2,3,7,8-TCDF	8.80	7.50 - 15.8	
1,2,3,7,8-PeCDF	47.3	40.0 - 67.0	
2,3,4,7,8-PeCDF	48.7	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	45.0	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	46.0	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	45.5	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	46.3	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	46.2	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	47.0	39.0 - 69.0	
OCDF	92.0	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.2	20.0 - 175	
13C-1,2,3,7,8-PeCDD	111	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	93.5	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	87.4	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	94.2	26.0 - 166	
13C-OCDD	77.1	13.0 - 198	
13C-2,3,7,8-TCDF	91.2	22.0 - 152	
13C-1,2,3,7,8-PeCDF	97.4	21.0 - 192	
13C-2,3,4,7,8-PeCDF	96.5	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	83.1	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	82.2	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	78.7	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	82.1	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	72.8	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	89.4	20.0 - 186	
13C-OCDF	75.4	13.0 - 198	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	92.3	31.0 - 191	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/15/10

Reviewed By: DNJ  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-001-SA  
Client ID: PSB20-0-0.5-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 4.99 g  
% Solids: 97.01

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-14-2010  
2005 WHO TEQ: 31.0

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	1.28	-		1.28	0.0262				
1,2,3,7,8-PeCDD	5.19	-		5.19	0.0442				
1,2,3,4,7,8-HxCDD	6.78	-		0.678	0.0486				
1,2,3,6,7,8-HxCDD	32.4	-		3.24	0.0586	Total TCDD	17.8	-	
1,2,3,7,8,9-HxCDD	20.2	-		2.02	0.0529	Total PeCDD	45.3	-	
1,2,3,4,6,7,8-HpCDD	964	-		9.64	0.0954	Total HxCDD	245	-	
OCDD	10300	-		3.09	0.154	Total HpCDD	1900	-	
2,3,7,8-TCDF	0.497	-	J	0.0497	0.0205				
1,2,3,7,8-PeCDF	0.829	-	J	0.0249	0.0298				
2,3,4,7,8-PeCDF	1.93	-	J	0.579	0.0313				
1,2,3,4,7,8-HxCDF	6.49	-		0.649	0.0308				
1,2,3,6,7,8-HxCDF	4.99	-	J	0.499	0.0317				
2,3,4,6,7,8-HxCDF	7.53	-		0.753	0.0341				
1,2,3,7,8,9-HxCDF	0.837	-	J	0.0837	0.0387	Total TCDF	15.4	-	D,M
1,2,3,4,6,7,8-HpCDF	282	-		2.82	0.0418	Total PeCDF	56.1	-	D,M
1,2,3,4,7,8,9-HpCDF	9.17	-		0.0917	0.0429	Total HxCDF	188	-	D,M
OCDF	1060	-		0.318	0.105	Total HpCDF	872	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	90.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	115	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	91.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	90.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	110	23.0 - 140	
13C-OCDD	122	17.0 - 157	
13C-2,3,7,8-TCDF	92.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	101	24.0 - 185	
13C-2,3,4,7,8-PeCDF	101	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	84.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	78.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	79.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	85.1	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	79.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	98.1	26.0 - 138	
13C-OCDF	102	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 90.3 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/15/10

Reviewed By: DN  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-002-SA  
Client ID: PSB20-2-4-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 5.00 g  
% Solids: 93.75

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-14-2010  
2005 WHO TEQ: 2.52

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.182		-	0.0262				
1,2,3,7,8-PeCDD	0.467	-	J	0.467	0.0442				
1,2,3,4,7,8-HxCDD	0.663	-	J	0.0663	0.0486				
1,2,3,6,7,8-HxCDD	2.59	-	J	0.259	0.0586	Total TCDD	0.595	-	J
1,2,3,7,8,9-HxCDD	1.28	-	J	0.128	0.0529	Total PeCDD	1.98	-	J
1,2,3,4,6,7,8-HpCDD	72.2	-		0.722	0.0954	Total HxCDD	18.1	-	
OCDD	741	-		0.222	0.154	Total HpCDD	146	-	
2,3,7,8-TCDF	ND	0.115		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.151		-	0.0298				
2,3,4,7,8-PeCDF	0.471	-	J	0.141	0.0313				
1,2,3,4,7,8-HxCDF	0.965	-	J	0.0965	0.0308				
1,2,3,6,7,8-HxCDF	0.623	-	J	0.0623	0.0317				
2,3,4,6,7,8-HxCDF	0.887	-	J	0.0887	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.213		-	0.0387	Total TCDF	0.767	-	J
1,2,3,4,6,7,8-HpCDF	23.5	-		0.235	0.0418	Total PeCDF	4.70	-	J
1,2,3,4,7,8,9-HpCDF	1.11	-	J	0.0111	0.0429	Total HxCDF	17.7	-	
OCDF	69.9	-		0.0210	0.105	Total HpCDF	63.6	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	77.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	105	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	86.9	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	82.5	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	88.7	23.0 - 140	
13C-OCDD	71.0	17.0 - 157	
13C-2,3,7,8-TCDF	78.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	91.0	24.0 - 185	
13C-2,3,4,7,8-PeCDF	85.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	80.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	74.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	67.4	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.0	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	71.7	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	80.7	26.0 - 138	
13C-OCDF	67.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	81.7	35.0 - 197
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/15/10

Reviewed By: [Signature]  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-003-SA  
Client ID: PSB20-1.5-2-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 5.13 g  
% Solids: 95.64

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-14-2010  
2005 WHO TEQ: 5.05

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.262		-	0.0262				
1,2,3,7,8-PeCDD	0.820	-	J	0.820	0.0442				
1,2,3,4,7,8-HxCDD	1.29	-	J	0.129	0.0486				
1,2,3,6,7,8-HxCDD	5.72	-		0.572	0.0586	Total TCDD	1.41		-
1,2,3,7,8,9-HxCDD	3.06	-	J	0.306	0.0529	Total PeCDD	5.08		-
1,2,3,4,6,7,8-HpCDD	165	-		1.65	0.0954	Total HxCDD	39.1		-
OCDD	1700	-		0.510	0.154	Total HpCDD	326		-
2,3,7,8-TCDF	ND	0.200		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.283		-	0.0298				
2,3,4,7,8-PeCDF	0.345	-	J	0.104	0.0313				
1,2,3,4,7,8-HxCDF	1.38	-	J	0.138	0.0308				
1,2,3,6,7,8-HxCDF	1.18	-	J	0.118	0.0317				
2,3,4,6,7,8-HxCDF	1.69	-	J	0.169	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.342		-	0.0387	Total TCDF	2.86		-
1,2,3,4,6,7,8-HpCDF	47.7	-		0.477	0.0418	Total PeCDF	11.4		-
1,2,3,4,7,8,9-HpCDF	1.72	-	J	0.0172	0.0429	Total HxCDF	37.3		-
OCDF	143	-		0.0429	0.105	Total HpCDF	135		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	81.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	107	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	84.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	78.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	93.3	23.0 - 140	
13C-OCDD	91.8	17.0 - 157	
13C-2,3,7,8-TCDF	80.7	24.0 - 169	
13C-1,2,3,7,8-PeCDF	90.5	24.0 - 185	
13C-2,3,4,7,8-PeCDF	89.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	76.3	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	71.0	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	67.1	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	70.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	80.8	26.0 - 138	
13C-OCDF	80.2	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 95.7 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: [Signature]  
Date: 9/15/10

Reviewed By: [Signature]  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-004-SA  
Client ID: PSB20-2-4-082510-DUP  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 4.92 g  
% Solids: 94.68

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-15-2010  
2005 WHO TEQ: 3.08

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.152		-	0.0262				
1,2,3,7,8-PeCDD	0.452	-	J	0.452	0.0442				
1,2,3,4,7,8-HxCDD	0.827	-	J	0.0827	0.0486				
1,2,3,6,7,8-HxCDD	3.20	-	J	0.320	0.0586	Total TCDD	0.636	-	J
1,2,3,7,8,9-HxCDD	1.84	-	J	0.184	0.0529	Total PeCDD	2.41	-	J
1,2,3,4,6,7,8-HpCDD	97.2	-		0.972	0.0954	Total HxCDD	22.3	-	
OCDD	1050	-		0.315	0.154	Total HpCDD	194	-	
2,3,7,8-TCDF	ND	0.0956		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.161		-	0.0298				
2,3,4,7,8-PeCDF	0.540	-	J	0.162	0.0313				
1,2,3,4,7,8-HxCDF	0.908	-	J	0.0908	0.0308				
1,2,3,6,7,8-HxCDF	0.682	-	J	0.0682	0.0317				
2,3,4,6,7,8-HxCDF	0.974	-	J	0.0974	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.229		-	0.0387	Total TCDF	0.853	-	J
1,2,3,4,6,7,8-HpCDF	29.2	-		0.292	0.0418	Total PeCDF	5.82	-	
1,2,3,4,7,8,9-HpCDF	1.41	-	J	0.0141	0.0429	Total HxCDF	20.5	-	
OCDF	91.2	-		0.0274	0.105	Total HpCDF	82.4	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	90.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	121	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	96.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	89.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	101	23.0 - 140	
13C-OCDD	81.1	17.0 - 157	
13C-2,3,7,8-TCDF	94.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	101	24.0 - 185	
13C-2,3,4,7,8-PeCDF	102	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	83.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	78.0	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	77.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	86.0	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	75.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	92.6	26.0 - 138	
13C-OCDF	75.9	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 91.1 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/15/10

Reviewed By: [Signature]  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-005-SA  
Client ID: PSB16-2-4-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 4.98 g  
% Solids: 94.91

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-15-2010  
2005 WHO TEQ: 16.5

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.341		-	0.0262				
1,2,3,7,8-PeCDD	2.41	-	J	2.41	0.0442				
1,2,3,4,7,8-HxCDD	4.62	-	J	0.462	0.0486				
1,2,3,6,7,8-HxCDD	18.1	-		1.81	0.0586	Total TCDD	3.33		-
1,2,3,7,8,9-HxCDD	11.1	-		1.11	0.0529	Total PeCDD	18.0		-
1,2,3,4,6,7,8-HpCDD	491	-		4.91	0.0954	Total HxCDD	131		-
OCDD	4910	-		1.47	0.154	Total HpCDD	988		-
2,3,7,8-TCDF	0.346	-	J	0.0346	0.0205				
1,2,3,7,8-PeCDF	0.634	-	J	0.0190	0.0298				
2,3,4,7,8-PeCDF	1.43	-	J	0.429	0.0313				
1,2,3,4,7,8-HxCDF	4.63	-	J	0.463	0.0308				
1,2,3,6,7,8-HxCDF	4.52	-	J	0.452	0.0317				
2,3,4,6,7,8-HxCDF	7.06	-		0.706	0.0341				
1,2,3,7,8,9-HxCDF	0.505	-	J	0.0505	0.0387	Total TCDF	14.6		- M
1,2,3,4,6,7,8-HpCDF	192	-		1.92	0.0418	Total PeCDF	57.3		-
1,2,3,4,7,8,9-HpCDF	5.92	-		0.0592	0.0429	Total HxCDF	150		-
OCDF	510	-		0.153	0.105	Total HpCDF	498		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	116	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	91.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	88.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	105	23.0 - 140	
13C-OCDD	96.3	17.0 - 157	
13C-2,3,7,8-TCDF	95.8	24.0 - 169	
13C-1,2,3,7,8-PeCDF	103	24.0 - 185	
13C-2,3,4,7,8-PeCDF	103	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	85.4	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	78.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	76.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	84.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	77.4	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	95.7	26.0 - 138	
13C-OCDF	84.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 89.5 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]

Date: 9/15/10

Reviewed By: [Signature]

Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-006-SA  
Client ID: PSB16-0-0.5-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 4.99 g  
% Solids: 97.81

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-15-2010  
2005 WHO TEQ: 205

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	9.63	-		9.63	0.0262				
1,2,3,7,8-PeCDD	38.1	-		38.1	0.0442				
1,2,3,4,7,8-HxCDD	45.5	-		4.55	0.0486				
1,2,3,6,7,8-HxCDD	185	-		18.5	0.0586	Total TCDD	215		-
1,2,3,7,8,9-HxCDD	122	-		12.2	0.0529	Total PeCDD	452		-
1,2,3,4,6,7,8-HpCDD	5820	-		58.2	0.0954	Total HxCDD	1670		-
OCDD	65300	-		19.6	0.154	Total HpCDD	11700		-
2,3,7,8-TCDF	6.47	-	F	0.647	0.0205				
1,2,3,7,8-PeCDF	14.1	-		0.423	0.0298				
2,3,4,7,8-PeCDF	20.6	-		6.18	0.0313				
1,2,3,4,7,8-HxCDF	65.4	-		6.54	0.0308				
1,2,3,6,7,8-HxCDF	43.6	-		4.36	0.0317				
2,3,4,6,7,8-HxCDF	50.0	-		5.00	0.0341				
1,2,3,7,8,9-HxCDF	7.95	-		0.795	0.0387	Total TCDF	252		-
1,2,3,4,6,7,8-HpCDF	1780	-		17.8	0.0418	Total PeCDF	469		-
1,2,3,4,7,8,9-HpCDF	58.9	-		0.589	0.0429	Total HxCDF	1260		-
OCDF	6940	-		2.08	0.105	Total HpCDF	5890		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	75.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	99.5	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	74.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	73.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	92.5	23.0 - 140	
13C-OCDD	93.9	17.0 - 157	
13C-2,3,7,8-TCDF	75.8	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.1	24.0 - 185	
13C-2,3,4,7,8-PeCDF	84.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	69.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	64.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	63.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	69.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	66.4	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	75.9	26.0 - 138	
13C-OCDF	74.5	17.0 - 157	

- 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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 75.9 35.0 - 197

Analyst: [Signature]  
Date: 9/15/10

Reviewed By: [Signature]  
Date: 9/20/10



EPA Method 1613  
PCDD/F



FAL ID: 6331-007-SA  
Client ID: PSB16-1-2-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 4.99 g  
% Solids: 96.26

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-15-2010  
2005 WHO TEQ: 13.2

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	0.342	-	J	0.342	0.0262				
1,2,3,7,8-PeCDD	2.21	-	J	2.21	0.0442				
1,2,3,4,7,8-HxCDD	4.14	-	J	0.414	0.0486				
1,2,3,6,7,8-HxCDD	15.2	-	-	1.52	0.0586	Total TCDD	6.70	-	-
1,2,3,7,8,9-HxCDD	10.0	-	-	1.00	0.0529	Total PeCDD	18.8	-	-
1,2,3,4,6,7,8-HpCDD	355	-	-	3.55	0.0954	Total HxCDD	111	-	-
OCDD	3480	-	-	1.04	0.154	Total HpCDD	727	-	-
2,3,7,8-TCDF	0.384	-	J	0.0384	0.0205				
1,2,3,7,8-PeCDF	0.641	-	J	0.0192	0.0298				
2,3,4,7,8-PeCDF	1.30	-	J	0.390	0.0313				
1,2,3,4,7,8-HxCDF	3.52	-	J	0.352	0.0308				
1,2,3,6,7,8-HxCDF	3.26	-	J	0.326	0.0317				
2,3,4,6,7,8-HxCDF	5.00	-	J	0.500	0.0341				
1,2,3,7,8,9-HxCDF	0.440	-	J	0.0440	0.0387	Total TCDF	11.3	-	-
1,2,3,4,6,7,8-HpCDF	134	-	-	1.34	0.0418	Total PeCDF	38.1	-	-
1,2,3,4,7,8,9-HpCDF	4.81	-	J	0.0481	0.0429	Total HxCDF	106	-	-
OCDF	329	-	-	0.0987	0.105	Total HpCDF	339	-	-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.3	25.0 - 164	
13C-1,2,3,7,8-PeCDD	104	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	95.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	79.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	95.6	23.0 - 140	
13C-OCDD	67.7	17.0 - 157	
13C-2,3,7,8-TCDF	94.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	100	24.0 - 185	
13C-2,3,4,7,8-PeCDF	99.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	83.6	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	71.0	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	76.4	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	85.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	71.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	78.2	26.0 - 138	
13C-OCDF	57.2	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.5 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/15/10

Reviewed By: [Signature]  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-008-SA  
Client ID: PSB16-4-6-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 5.00 g  
% Solids: 94.99

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-15-2010  
2005 WHO TEQ: 33.3

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	0.834	-	J	0.834	0.0262				
1,2,3,7,8-PeCDD	5.49	-		5.49	0.0442				
1,2,3,4,7,8-HxCDD	9.67	-		0.967	0.0486				
1,2,3,6,7,8-HxCDD	34.3	-		3.43	0.0586	Total TCDD	8.36		-
1,2,3,7,8,9-HxCDD	24.2	-		2.42	0.0529	Total PeCDD	35.9		-
1,2,3,4,6,7,8-HpCDD	842	-		8.42	0:0954	Total HxCDD	245		-
OCDD	8430	-		2.53	0.154	Total HpCDD	1680		-
2,3,7,8-TCDF	0.711	-	J	0.0711	0.0205				
1,2,3,7,8-PeCDF	1.25	-	J	0.0375	0.0298				
2,3,4,7,8-PeCDF	3.13	-	J	0.939	0.0313				
1,2,3,4,7,8-HxCDF	11.2	-		1.12	0.0308				
1,2,3,6,7,8-HxCDF	10.5	-		1.05	0.0317				
2,3,4,6,7,8-HxCDF	15.9	-		1.59	0.0341				
1,2,3,7,8,9-HxCDF	1.28	-	J	0.128	0.0387	Total TCDF	30.9		-
1,2,3,4,6,7,8-HpCDF	390	-		3.90	0.0418	Total PeCDF	121		-
1,2,3,4,7,8,9-HpCDF	11.3	-		0.113	0.0429	Total HxCDF	312		-
OCDF	815	-		0.244	0.105	Total HpCDF	888		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.9	25.0 - 164	
13C-1,2,3,7,8-PeCDD	124	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	90.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	86.2	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	101	23.0 - 140	
13C-OCDD	97.3	17.0 - 157	
13C-2,3,7,8-TCDF	93.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	110	24.0 - 185	
13C-2,3,4,7,8-PeCDF	106	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	80.9	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	76.4	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	74.1	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	82.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	76.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	90.4	26.0 - 138	
13C-OCDF	82.2	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 92.0 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: [Signature]  
Date: 9/15/10

Reviewed By: [Signature]  
Date: 9/20/10

EPA Method 1613  
PCDD/F



FAL ID: 6331-009-SA  
Client ID: PSB16-13-15-082510  
Matrix: Soil  
Batch No: X2106

Date Extracted: 09-13-2010  
Date Received: 08-31-2010  
Amount: 5.02 g  
% Solids: 89.91

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/g

Acquired: 09-15-2010  
2005 WHO TEQ: 0.0664

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.178		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.332		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.290		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.378		-	0.0586	Total TCDD	0.654	-	J
1,2,3,7,8,9-HxCDD	ND	0.333		-	0.0529	Total PeCDD	ND	0.332	
1,2,3,4,6,7,8-HpCDD	4.15	-	J	0.0415	0.0954	Total HxCDD	1.78	-	J
OCDD	39.1	-		0.0117	0.154	Total HpCDD	8.95	-	
2,3,7,8-TCDF	ND	0.165		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.189		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.197		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.254		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.254		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.282		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.273		-	0.0387	Total TCDF	ND	0.165	
1,2,3,4,6,7,8-HpCDF	1.20	-	J	0.0120	0.0418	Total PeCDF	ND	0.197	
1,2,3,4,7,8,9-HpCDF	ND	0.350		-	0.0429	Total HxCDF	0.903	-	J
OCDF	3.83	-	J	0.00115	0.105	Total HpCDF	3.03	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	78.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	103	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	83.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	75.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	87.2	23.0 - 140	
13C-OCDD	72.6	17.0 - 157	
13C-2,3,7,8-TCDF	82.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	88.5	24.0 - 185	
13C-2,3,4,7,8-PeCDF	89.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	77.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	70.8	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	69.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	73.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	66.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	82.9	26.0 - 138	
13C-OCDF	69.7	17.0 - 157	

- 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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.7 35.0 - 197

Analyst: [Signature]  
Date: 9/15/10

Reviewed By: [Signature]  
Date: 9/20/10

**SUBCONTRACTOR ANALYSIS REQUEST**  
 CUSTODY TRANSFER 08/27/10



ARI Project: RK83

Laboratory: Frontier Analytical Laboratory  
 Lab Contact: BRAD SILVERBUSH  
 Lab Address: 5172 Hillside Circle  
 El Dorado Hills, CA 95762  
 Phone: 916-934-0900  
 Fax: 916-934-0999

*6331  
OAC*

ARI Client: Floyd-Snider  
 Project ID: Lora Lakes Apts RI  
 ARI PM: Sue Dunnihoo  
 Phone: 206-695-6207  
 Fax: 206-695-6201

*LY & EDD*

Analytical Protocol: In-house  
 Special Instructions:

Requested Turn Around:  
 Email Results (Y/N): **Yes**

**Limits of Liability.** Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-21692-RK83A	PSB20-0-0.5-082510	08/25/10 10:55	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-21693-RK83B	PSB20-2-4-082510	08/25/10 10:25	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-21694-RK83C	PSB20-1.5-2-082510	08/25/10 10:45	Soil		Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-21697-RK83F	PSB20-2-4-082510-DUP	08/25/10 10:25	Soil	0	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-21699-RK83H	PSB16-2-4-082510	08/25/10 12:20	Soil	0	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-21700-RK83I	PSB16-0-0.5-082510	08/25/10 12:25	Soil	0	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-21701-RK83J	PSB16-1-2-082510	08/25/10 11:55	Soil	0	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-21703-RK83L	PSB16-4-6-082510	08/25/10 12:00	Soil	0	Dioxin/Furans 1613(Sub)
Special Instructions: None					

Carrier	<i>UPS</i>	Airbill	<i>128326980149180946</i>	Date	<i>8/30/10</i>
Relinquished by	<i>[Signature]</i>	Company	<i>ARI</i>	Date	<i>8/30/10</i>
Received by	<i>[Signature]</i>	Company	<i>Frontier Analytical</i>	Date	<i>8/31/10</i>
				Time	<i>1425</i>
				Time	<i>951</i>

Laboratory: Frontier Analytical Laboratory  
 Lab Contact: BRAD SILVERBUSH

ARI Client: Floyd-Snider  
 Project ID: POS-LLA

ARI Sample ID	Client Sample ID/ Add'l Sample ID	Sampled	Matrix	Bottles	Analyses
10-21704-RK83M	PSB16-13-15-082510	08/25/10 12:10	Soil	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					

Carrier	Airbill		Date
<i>UPS</i>	<i>cont from p 1</i>		
Relinquished by	Company	Date	Time
<i>[Signature]</i>	<i>ARI</i>	<i>8/27/10</i>	<i>1429</i>
Received by	Company	Date	Time
<i>[Signature]</i>	<i>Frontier Analytical</i>	<i>8/31/10</i>	<i>951</i>

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6331**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	RK83
Date Received:	08/31/2010
Time Received:	09:51 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	9
Duplicates:	0
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z83269S0149150946
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	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	08/25/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	
L4 DATA PACKAGE & EDD	



**Frontier Analytical Laboratory**  
**PROJECT REQUEST SHEET**

Project #: 6331                      Sample #: 1-9                      Client Manager: BS  
Client: Analytical Resources Inc. Sue Dunning                      Hold Time: 08/25/2011  
Matrix: Soil                      Extraction Batch: 2106                      Due Date: 09/23/2010  
Method: EPA 1613 D/F                      Storage: R1  
SOP: SOPs: EP2A Rev.7 IP2A Rev.8

**COMMENTS/INSTRUCTIONS:**

LL & EDD

Results: 6331  
6331-06TCDF

Extract/s located in box: "NJNP"

Standards: 6331  
Conf std's: 6327

Instrument:  
DB5 FAL-3  
DB225 FAL-1  
DB1 \_\_\_\_\_  
Other \_\_\_\_\_



## Percent Solids

FAL Project: 6331

	Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv
1.29	6331-001-0001-SA	MP	9-2-10	8.70	8.44	97.01	10.31
1.28	6331-002-0001-SA			6.08	5.70	93.75	10.67
1.28	6331-003-0001-SA			7.34	7.02	95.64	10.46
1.31	6331-004-0001-SA			9.78	9.26	94.68	10.56
1.29	6331-005-0001-SA			7.47	7.07	94.91	10.54
1.28	6331-006-0001-SA			5.47	5.35	97.81	10.22
1.28	6331-007-0001-SA			9.89	9.52	96.26	10.39
1.28	6331-008-0001-SA			8.38	7.96	94.99	10.53
1.30	6331-009-0001-SA	↓	↓	15.26	13.72	<del>89.89</del> 89.91	11.12
						015 9/20/10	

**% 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

$$\% \text{ solids} = \text{aliquot after drying} / \text{aliquot before drying} \times 100$$

- Samples containing one percent solids or less are prepared as aqueous samples.
- Samples containing greater than one percent solids prepared as solid samples.

# EXTRACTION SHEET

Project #: 6331      Extraction Date: 2010-09-13      Extraction Chemist: MP

Method/Analysis: EPA 1613 D/F

Procedure: SOX/SDS

Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS		NS		CSS	
			Amt: 10.0uL ID: 100511A Vial: 1 Chemist/Witness/Date		Amt: 10.0uL ID: 100511B Vial: 1 Chemist/Witness/Date		Amt: 10.0uL ID: 100511C Vial: 1 Chemist/Witness/Date	
2106-001-0001-MB	(5.00g)	(5.00g)	MP	DN 9.13.10	N/A		MP	DN 9.14.10
2106-001-0001-OPR	(5.00g)	(5.00g)			MP	DN 9.13.10	MP	DN 9.14.10
6331-001-0001-SA	5.14g	4.99g			N/A			
6331-002-0001-SA	5.33g	5.00g						
6331-003-0001-SA	5.36g	5.13g						
6331-004-0001-SA	5.20g	4.92g						
6331-005-0001-SA	5.25g	4.98g						
6331-006-0001-SA	5.10g	4.99g						
6331-007-0001-SA	5.18g	4.99g						
6331-008-0001-SA	5.26g	5.00g						
6331-009-0001-SA	5.58g	5.02g						

AX-21 Charcoal Cleaned	031210	Acetone	50180	Acid Alumina	08623DJ	Hexane	50143
Hydrochloric Acid	B08505	Methanol	101438	Methylene Chloride (DCM)	50132	Silica Gel	TA1593034
Sodium Hydroxide	9265	Sodium Sulfate	49009905	Sulfuric Acid	101570	Tetradecane	081394
Toluene	101346	Water	50193	C-18 Empore Discs	320505	Cyclohexane	48151

Comments:

# CLEANUP SHEET

Project #: 6331

Method/Analysis: EPA 1613 D/F

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	MSE . AA	CC	N/A	Amt: 10.0uL ID: 100511D Vial: 1 Chemist/Witness/Date
	Chemist/Date	Chemist/Date	Chemist/Date	
2106-001-0001-MB	MP / 9.14.10	DN 9/14/10	N/A	DN MP 9/14/10
2106-001-0001-OPR				
6331-001-0001-SA				
6331-002-0001-SA				
6331-003-0001-SA				
6331-004-0001-SA				
6331-005-0001-SA				
6331-006-0001-SA				
6331-007-0001-SA				
6331-008-0001-SA				
6331-009-0001-SA				

Comments:

FAL ID: 2106-001-0001-MB  
 Client ID: Method Blank  
 Results: 2106

Filename: 14SEP10M Sam:3  
 GC Column: DB5 Amount: 5.000

Acquired: 14-SEP-10 21:08:33 ICal: PCDDFAL3-8-23-10  
 ConCal: ST091410M1 EndCal: ST091410M2

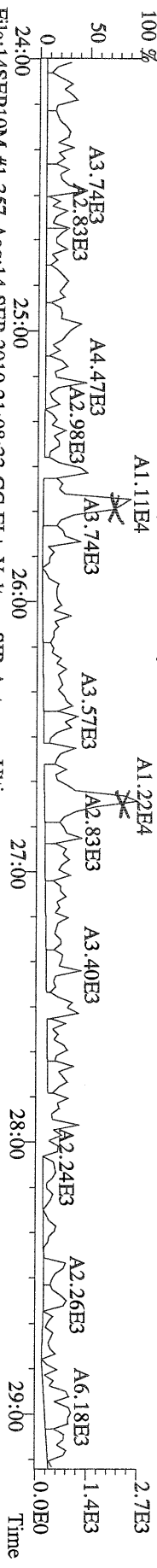
NATO 1989 Tox: 0.00  
 WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00  
 Conc Qual Fac Noise-1 Noise-2 DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	532	568	0.188	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	818	512	0.260	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	913	715	0.353	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	913	715	0.470	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	913	715	0.409	0
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	871	710	0.557	0
OCDD	*	* n	NotFnd	1.43	*		2.50	862	689	1.40	0
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	598	947	0.122	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	667	728	0.222	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	667	728	0.231	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	707	646	0.286	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	707	646	0.270	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	707	646	0.328	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	707	646	0.322	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	555	585	0.363	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	555	585	0.454	0
OCDF	*	* n	NotFnd	0.79	*		2.50	714	779	1.27	0
13C-2,3,7,8-TCDD	2.52e+07	0.87 y	27:29	1.02	353						88.2
13C-1,2,3,7,8-PeCDD	2.79e+07	1.76 y	33:18	0.84	474						118
13C-1,2,3,4,7,8-HxCDD	2.09e+07	1.25 y	38:41	1.07	386						96.6
13C-1,2,3,6,7,8-HxCDD	1.74e+07	1.25 y	38:51	1.01	341						85.4
13C-1,2,3,4,6,7,8-HpCDD	1.54e+07	0.90 y	44:17	0.86	357						89.3
13C-OCDD	1.46e+07	0.90 y	49:53	0.55	533						66.6
13C-2,3,7,8-TCDF	3.99e+07	0.87 y	26:44	0.99	364						91.1
13C-1,2,3,7,8-PeCDF	3.60e+07	1.75 y	31:34	0.84	391						97.7
13C-2,3,4,7,8-PeCDF	3.49e+07	1.72 y	32:53	0.81	391						97.7
13C-1,2,3,4,7,8-HxCDF	3.14e+07	0.47 y	37:16	1.85	337						84.3
13C-1,2,3,6,7,8-HxCDF	4.28e+07	0.46 y	37:29	2.54	336						83.9
13C-2,3,4,6,7,8-HxCDF	3.11e+07	0.47 y	38:25	2.01	307						76.8
13C-1,2,3,7,8,9-HxCDF	3.30e+07	0.48 y	39:52	2.03	323						80.8
13C-1,2,3,4,6,7,8-HpCDF	1.62e+07	0.43 y	42:23	1.11	290						72.6
13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.43 y	45:13	0.80	338						84.4
13C-OCDF	2.89e+07	0.93 y	50:14	1.08	531						66.4
37Cl-2,3,7,8-TCDD	6.96e+06		27:30	0.69	145						90.9
13C-1,2,3,4-TCDD	2.79e+07	0.88 y	26:54	-	12.4						
13C-1,2,3,4-TCDF	4.41e+07	0.88 y	25:38	-	12.2						
13C-1,2,3,7,8,9-HxCDD	2.01e+07	1.28 y	39:17	-	14.6						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	532	568	0.188	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	818	512	0.260	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	913	715	0.470	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	871	710	0.557	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	598	947	0.122	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	667	728	0.231	0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	667	728	0.231	0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	707	646	0.328	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	555	585	0.454	0

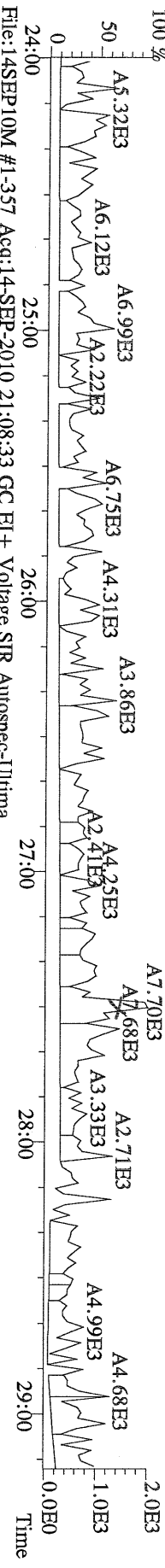
Analyst: 

Date: 9/15/10

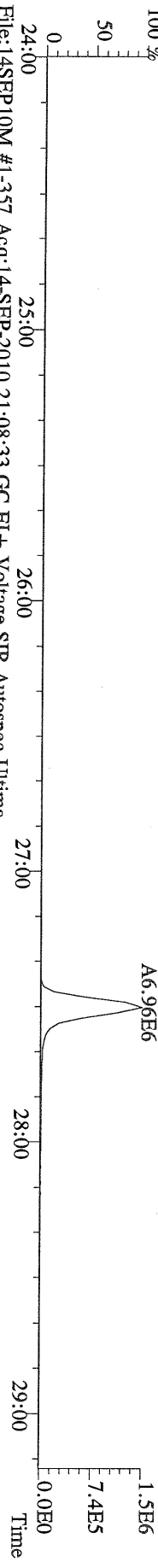
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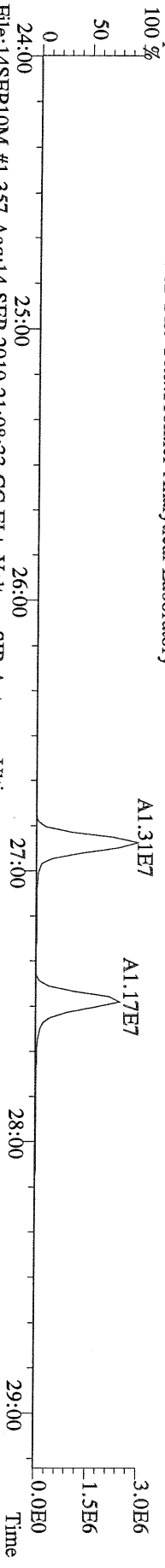
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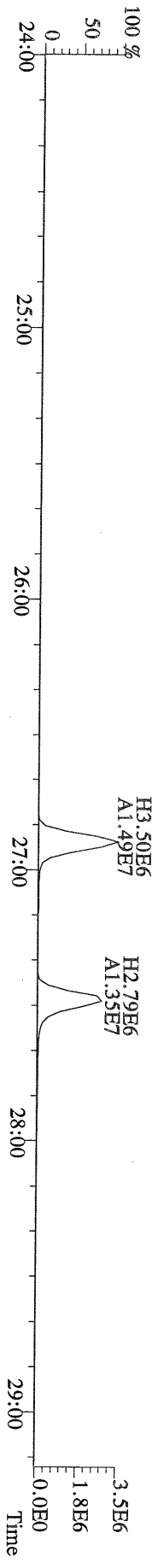
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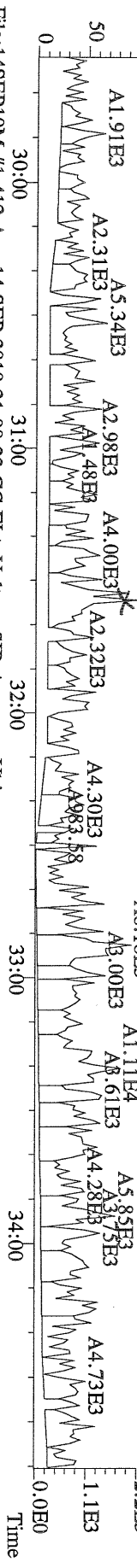
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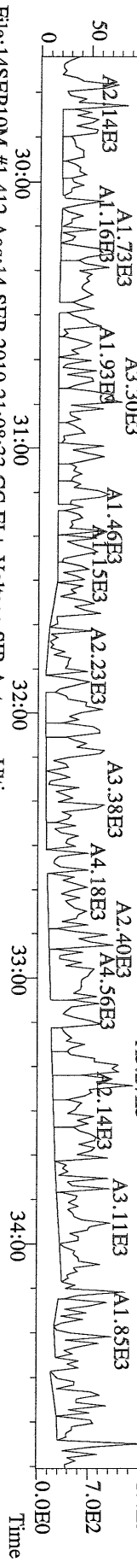
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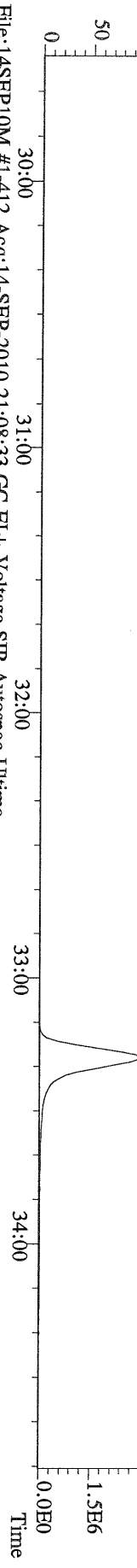
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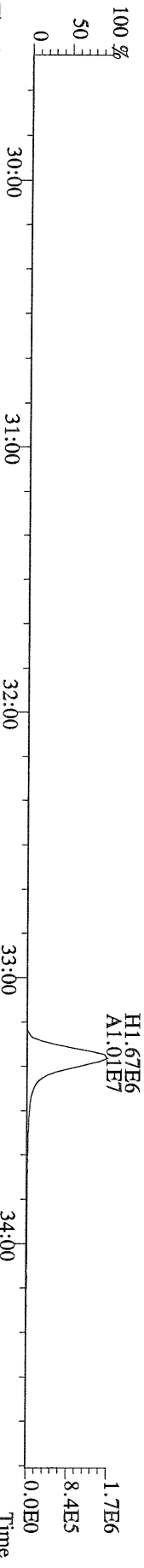
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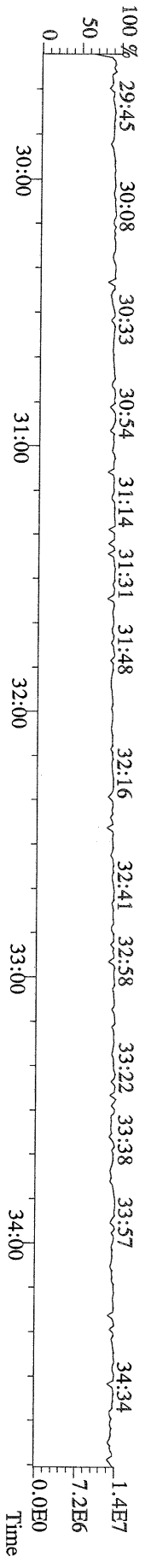
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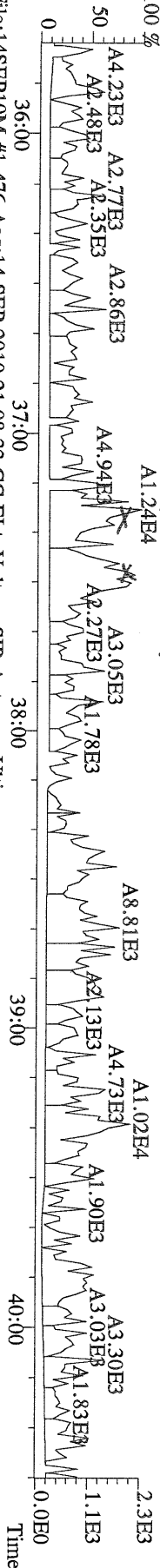
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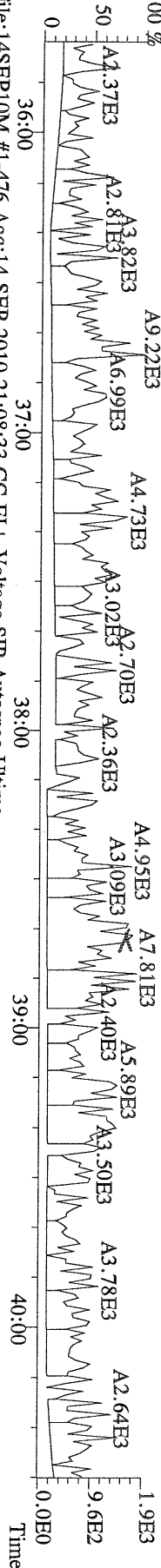
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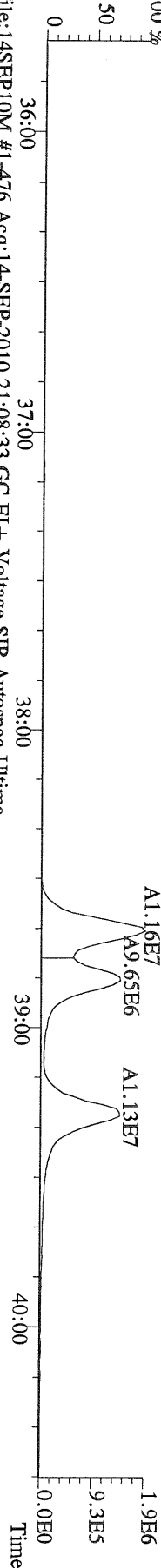
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 389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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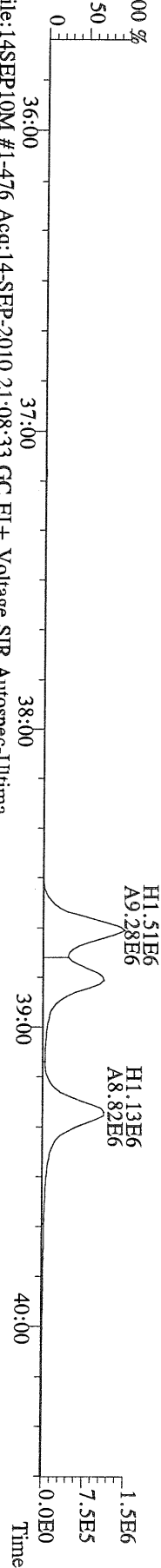
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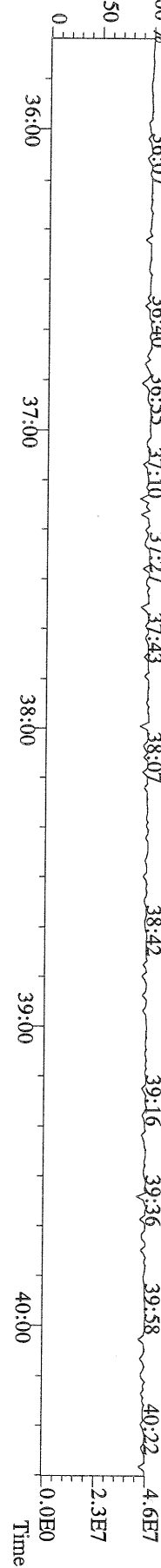
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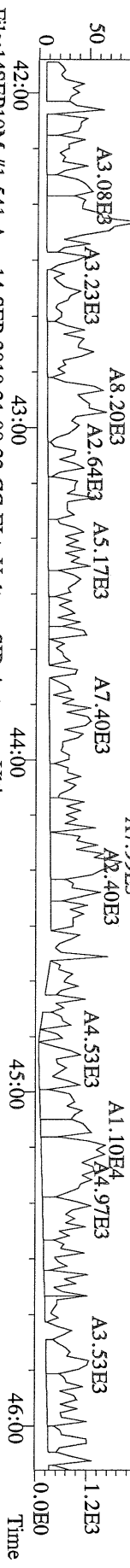
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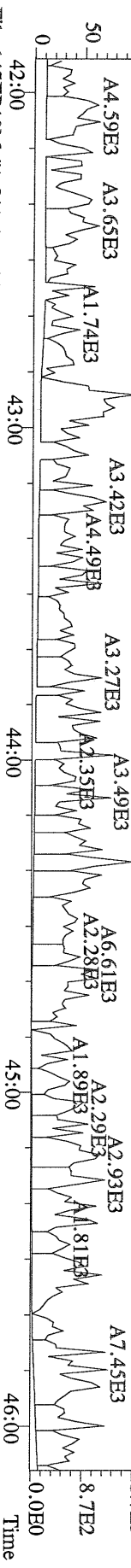
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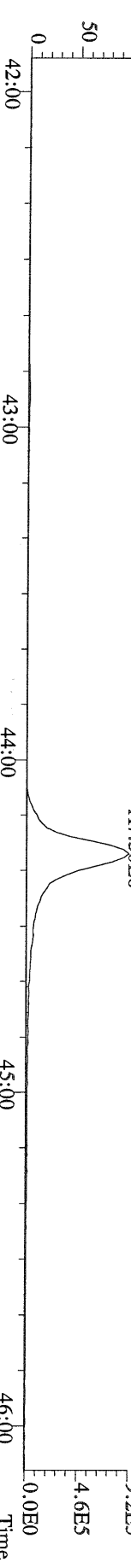
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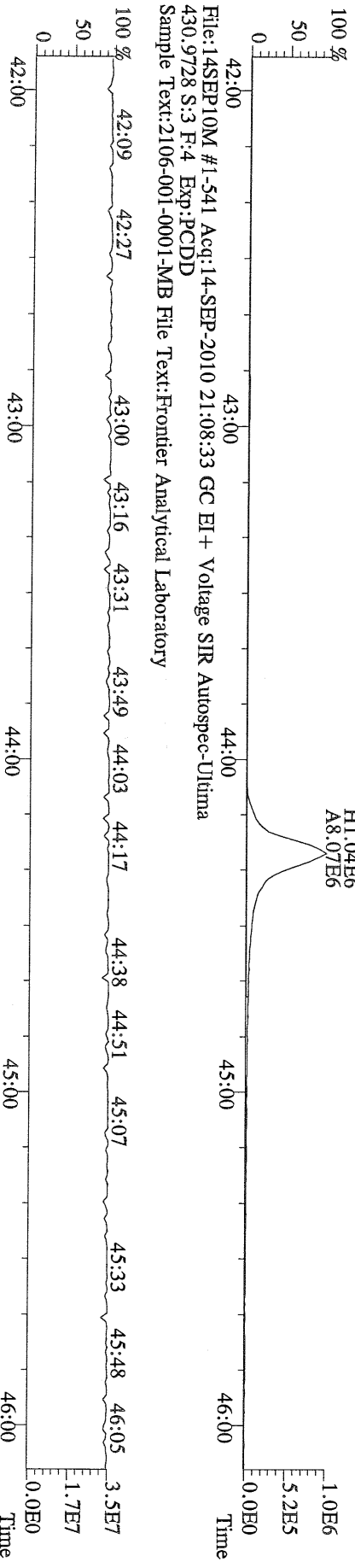
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File:14SEP10M #1-541 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
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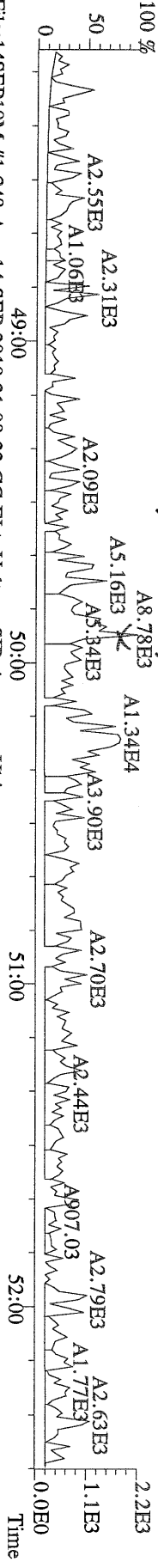


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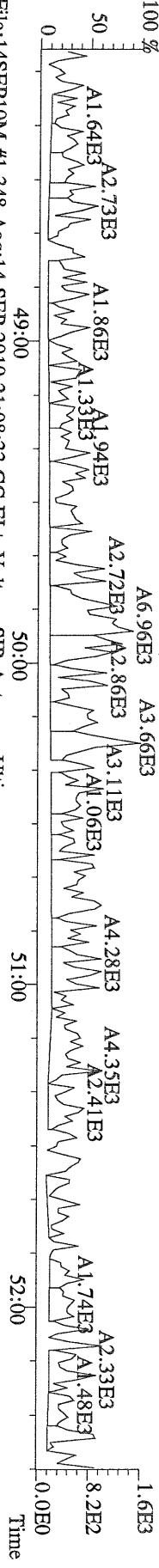




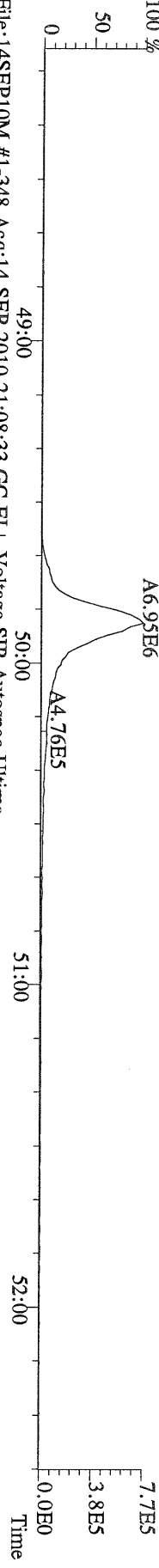
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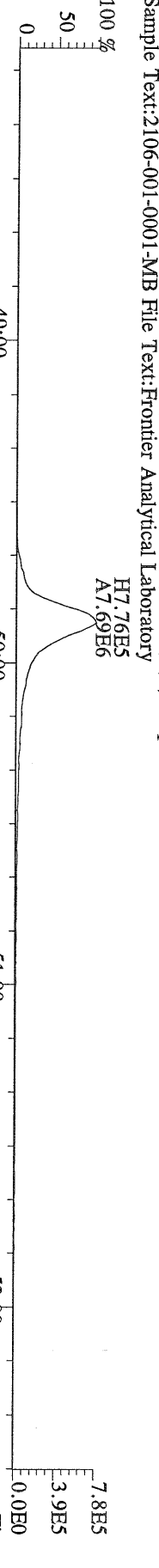
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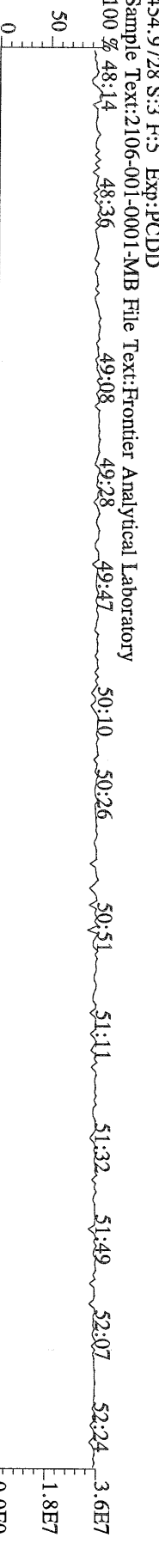
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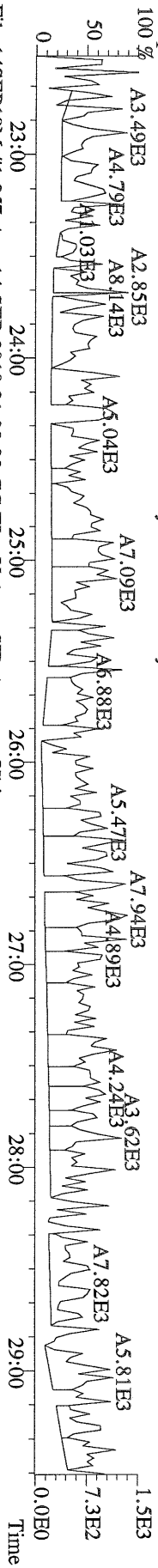
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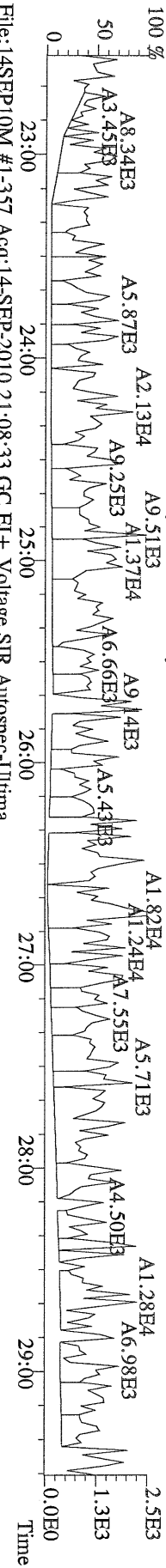
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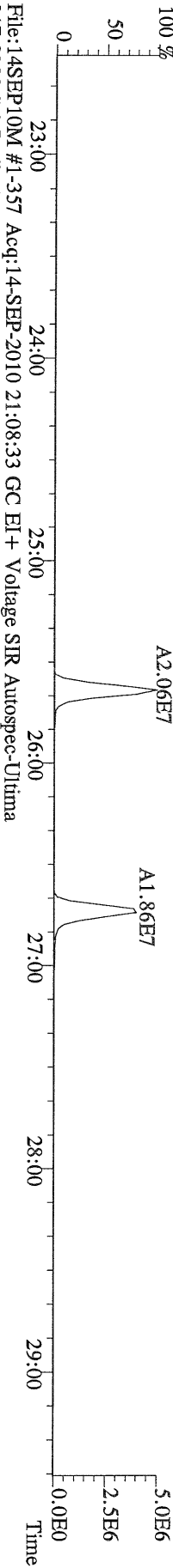
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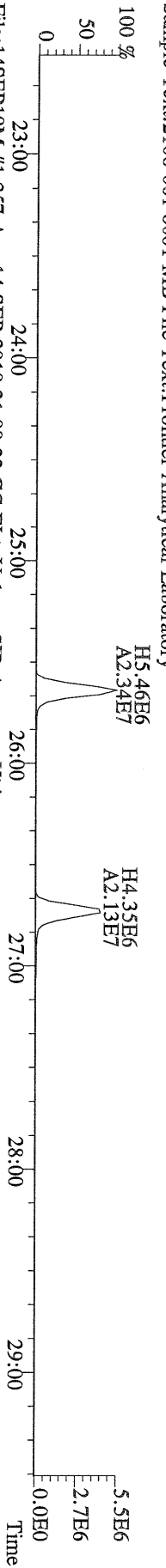
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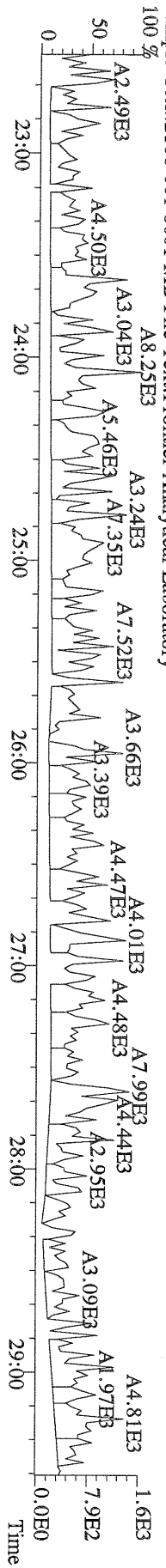
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315.9419 S:3 BSUB(10000,15,25.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



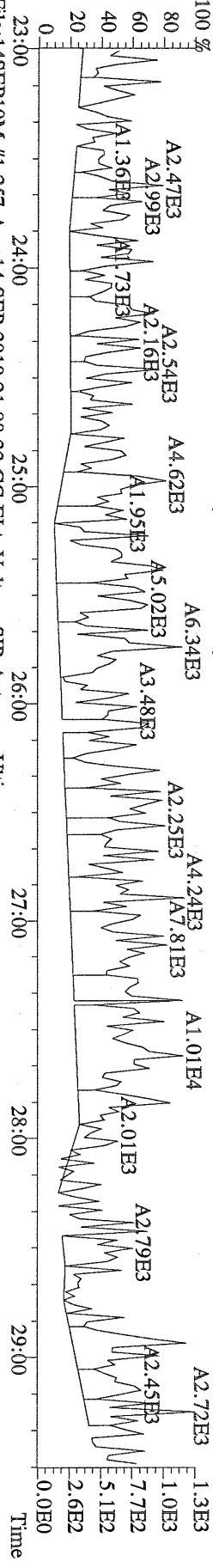
File:14SEP10M #1-357 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Utima  
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



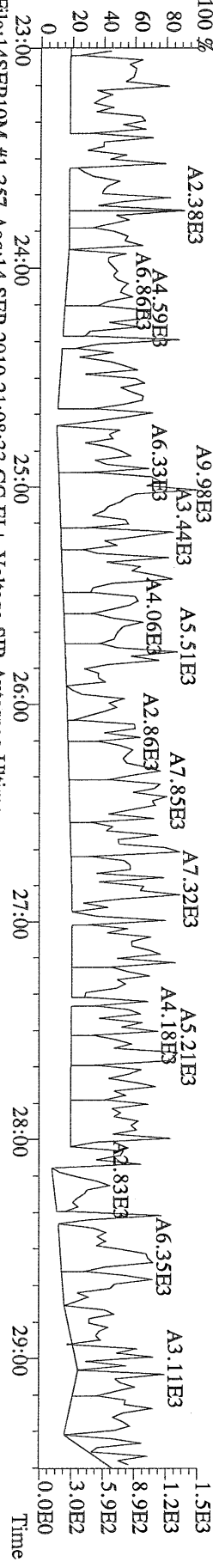
File:14SEP10M #1-357 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Utima  
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



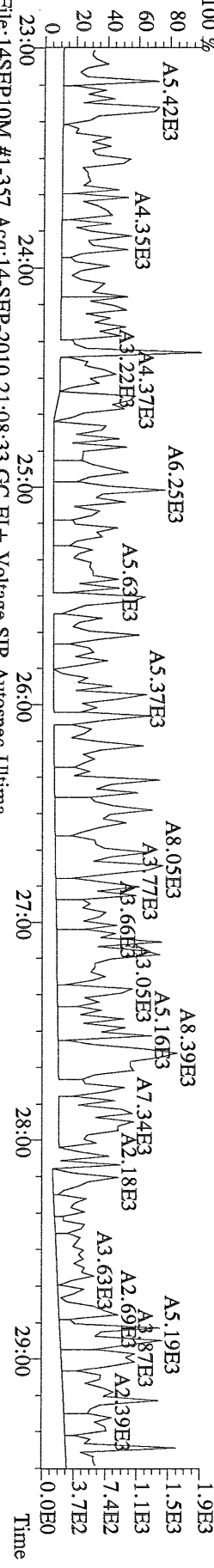
File:14SEP10M #1-357 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:3 BSUB(10000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



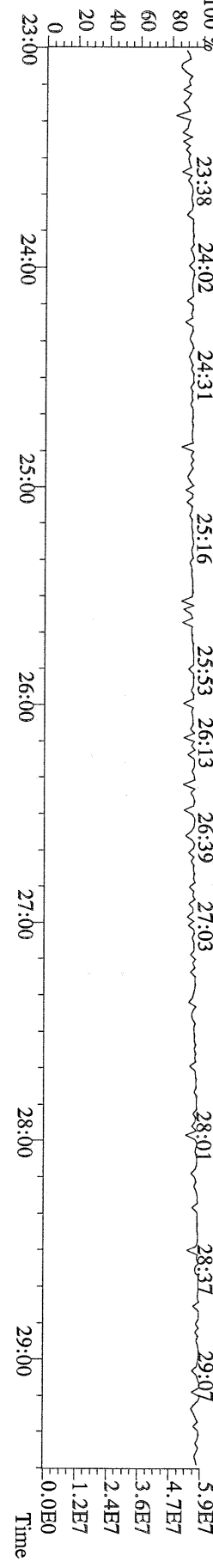
File:14SEP10M #1-357 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:3 BSUB(10000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



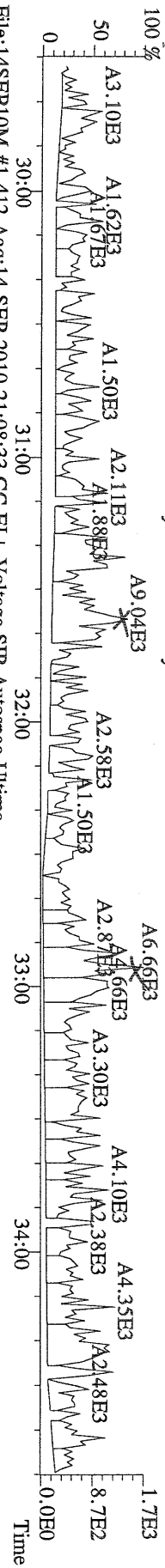
File:14SEP10M #1-357 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:3 BSUB(10000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



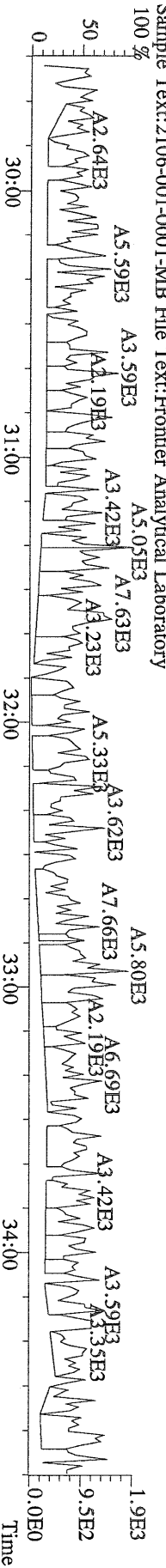
File:14SEP10M #1-357 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:3 Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



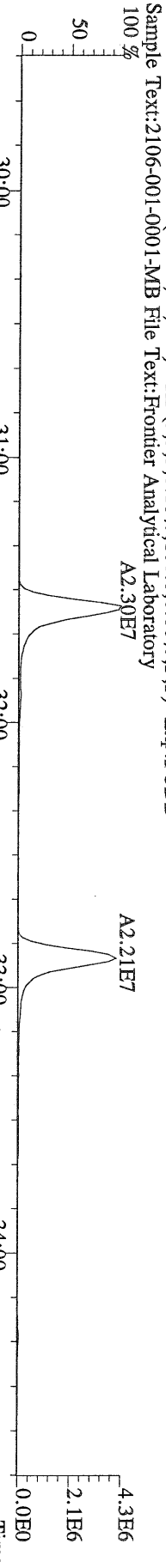
File:14SEP10M #1-412 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



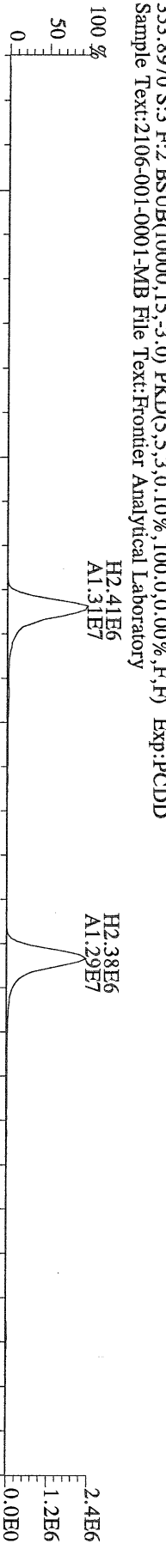
File:14SEP10M #1-412 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



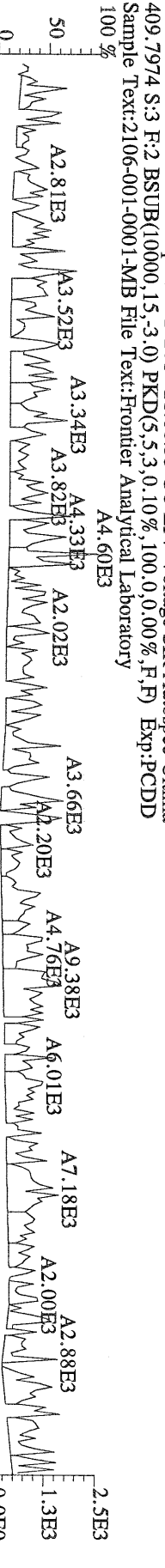
File:14SEP10M #1-412 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



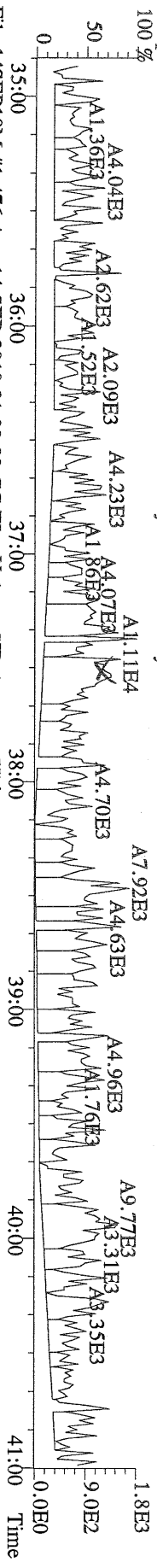
File:14SEP10M #1-412 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



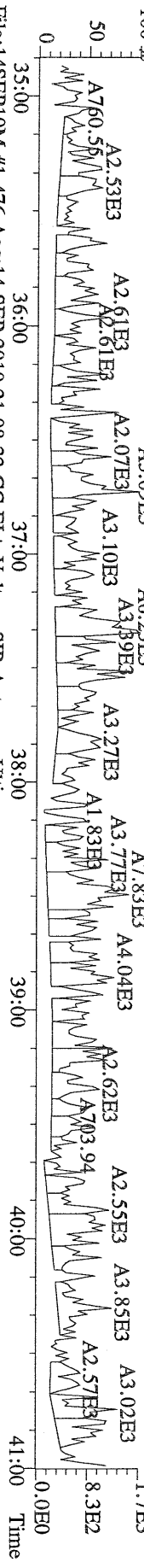
File:14SEP10M #1-412 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) Exp:PCDD  
 Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



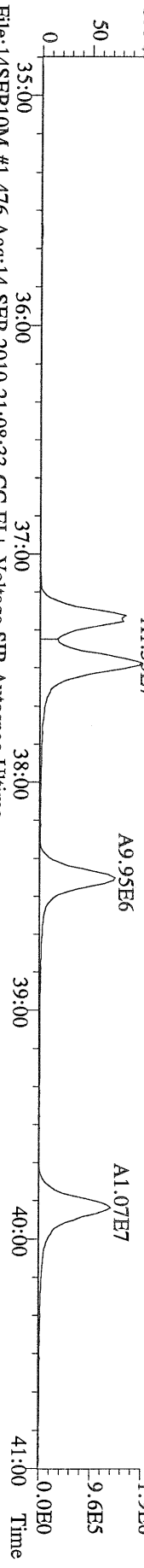
File:14SEP10M #1-476 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



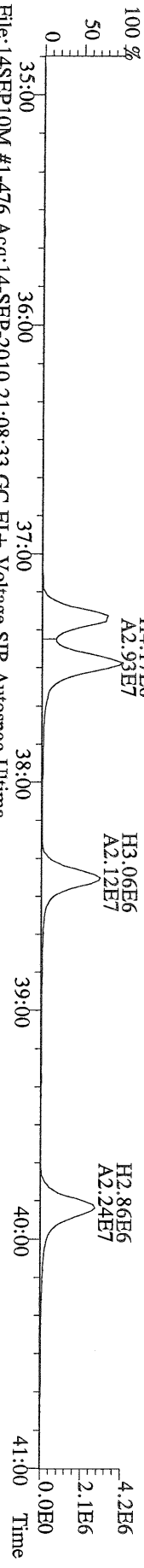
File:14SEP10M #1-476 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



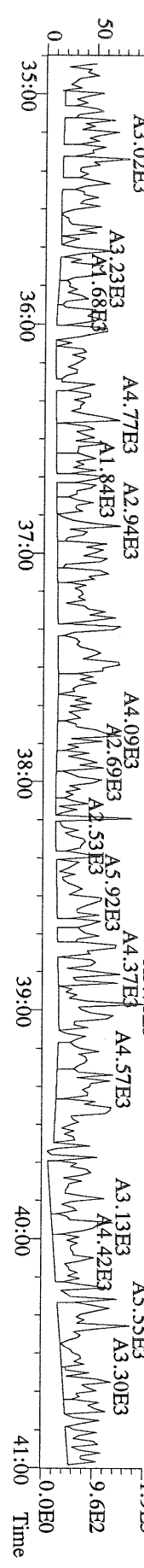
File:14SEP10M #1-476 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



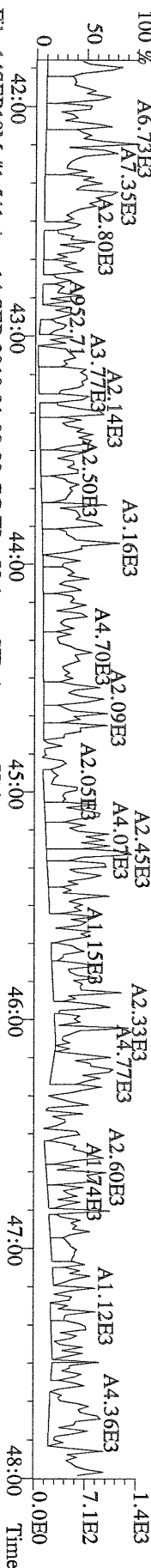
File:14SEP10M #1-476 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



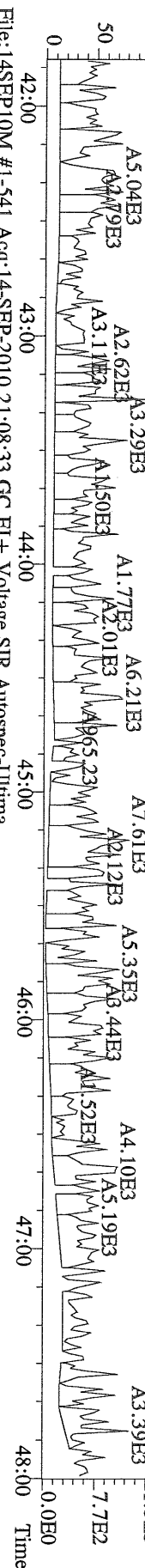
File:14SEP10M #1-476 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%) F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



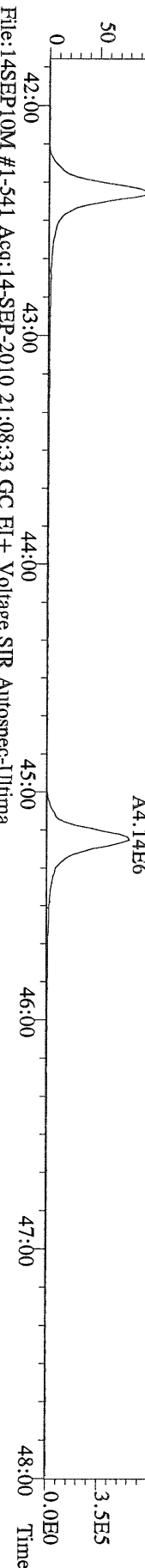
File:14SEP10M #1-541 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



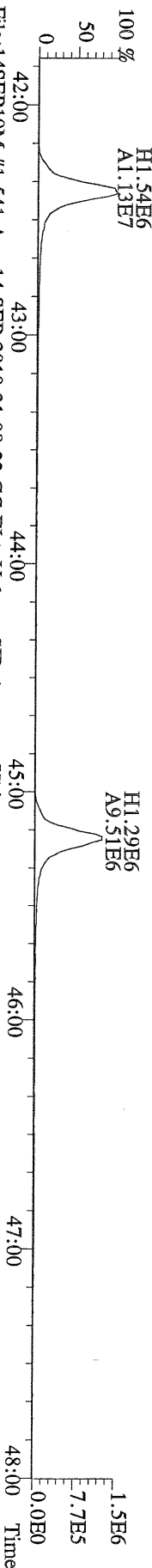
File:14SEP10M #1-541 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



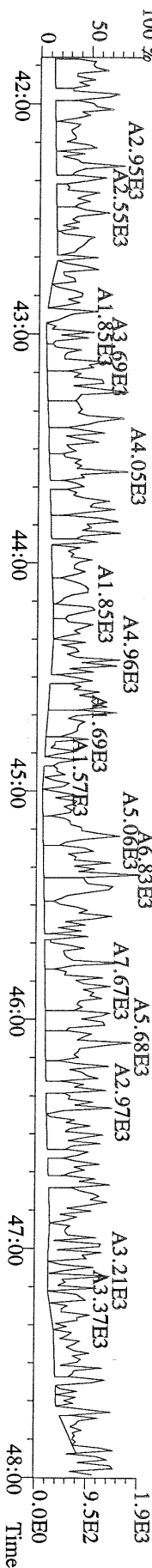
File:14SEP10M #1-541 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



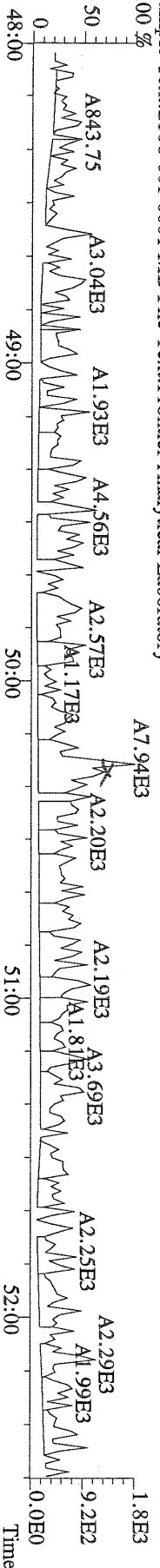
File:14SEP10M #1-541 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



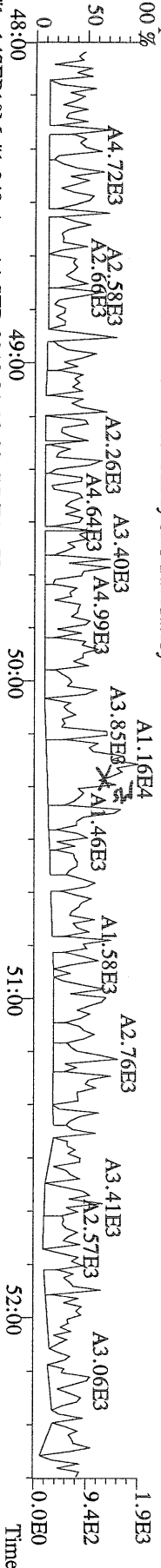
File:14SEP10M #1-541 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



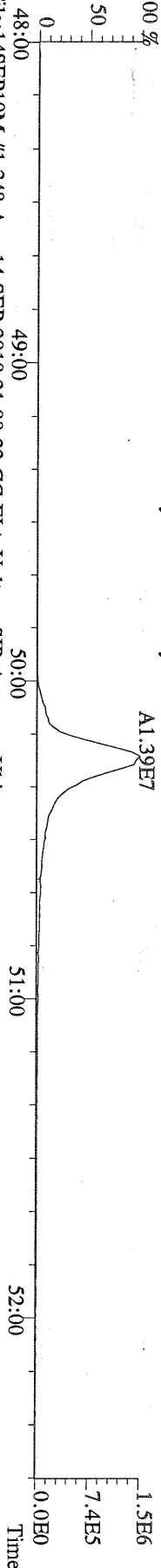
File:14SEP10M #1-348 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



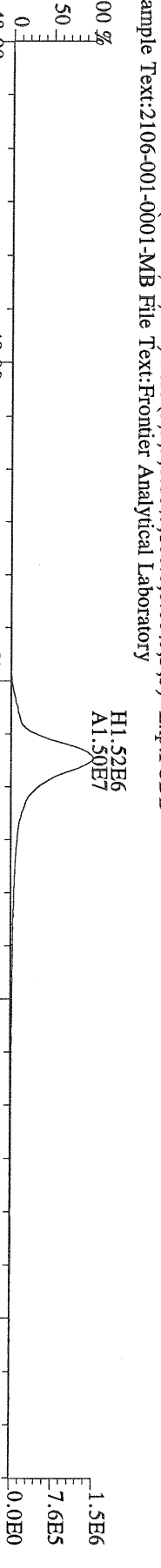
File:14SEP10M #1-348 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



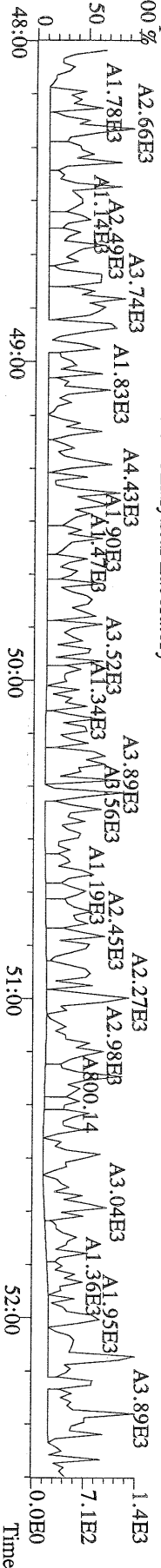
File:14SEP10M #1-348 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



File:14SEP10M #1-348 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-MB File Text:Frontier Analytical Laboratory



File:14SEP10M #1-348 Acq:14-SEP-2010 21:08:33 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-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): Soil      OPR Data Filename: 14SEP10M      Sam:2

Ext. Date: 9/13/10      Shift: Day      Analysis Date: 14-SEP-10      20:13:14

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	10.2	6.70 - 15.8 ✓
1,2,3,7,8-PeCDD	50	51.0	35.0 - 71.0 ✓
1,2,3,4,7,8-HxCDD	50	49.0	35.0 - 82.0 ✓
1,2,3,6,7,8-HxCDD	50	48.0	38.0 - 67.0 ✓
1,2,3,7,8,9-HxCDD	50	51.7	32.0 - 81.0 ✓
1,2,3,4,6,7,8-HpCDD	50	44.8	35.0 - 70.0 ✓
OCDD	100	98.2	78.0 - 144 ✓
2,3,7,8-TCDF	10	8.80	7.50 - 15.8 ✓
1,2,3,7,8-PeCDF	50	47.3	40.0 - 67.0 ✓
2,3,4,7,8-PeCDF	50	48.7	34.0 - 80.0 ✓
1,2,3,4,7,8-HxCDF	50	45.0	36.0 - 67.0 ✓
1,2,3,6,7,8-HxCDF	50	46.0	42.0 - 65.0 ✓
2,3,4,6,7,8-HxCDF	50	45.5	35.0 - 78.0 ✓
1,2,3,7,8,9-HxCDF	50	46.3	39.0 - 65.0 ✓
1,2,3,4,6,7,8-HpCDF	50	46.2	41.0 - 61.0 ✓
1,2,3,4,7,8,9-HpCDF	50	47.0	39.0 - 69.0 ✓
OCDF	100	92.0	63.0 - 170 ✓

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

Analyst: Date: 9/15/10



## 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): Soil OPR Data Filename: 14SEP10M Sam:2  
 Ext. Date: 9/13/10 Shift: Day Analysis Date: 14-SEP-10 20:13:14

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	87.2	20.0 - 175 ✓
13C-1,2,3,7,8-PeCDD	100	111	21.0 - 227 ✓
13C-1,2,3,4,7,8-HxCDD	100	93.5	21.0 - 193 ✓
13C-1,2,3,6,7,8-HxCDD	100	87.4	25.0 - 163 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	94.2	26.0 - 166 ✓
13C-OCDD	200	154	26.0 - 397 ✓
13C-2,3,7,8-TCDF	100	91.2	22.0 - 152 ✓
13C-1,2,3,7,8-PeCDF	100	97.4	21.0 - 192 ✓
13C-2,3,4,7,8-PeCDF	100	96.5	13.0 - 328 ✓
13C-1,2,3,4,7,8-HxCDF	100	83.1	19.0 - 202 ✓
13C-1,2,3,6,7,8-HxCDF	100	82.2	21.0 - 159 ✓
13C-2,3,4,6,7,8-HxCDF	100	78.7	22.0 - 176 ✓
13C-1,2,3,7,8,9-HxCDF	100	82.1	17.0 - 205 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	72.8	21.0 - 158 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	89.4	20.0 - 186 ✓
13C-OCDF	200	151	26.0 - 397 ✓
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	36.9	12.4 - 76.4 ✓

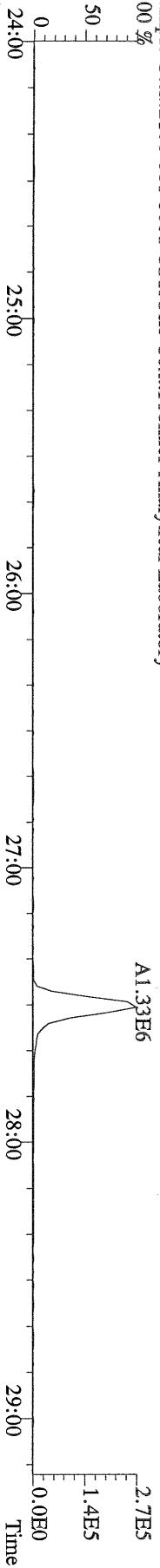
(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613  
 Labeled compound concentration limits are based on required percent recovery of 25%-150%.

Analyst: Date: 9/15/10

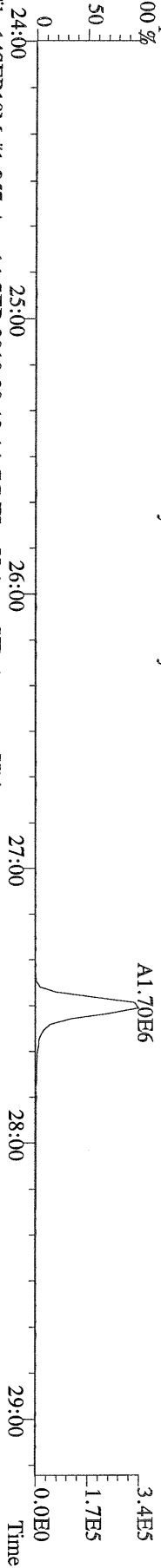
Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		DL	
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	3.03e+06	0.79 y	27:31	1.11	10.2	2.50	-	-	*	
1,2,3,7,8-PeCDD	1.57e+07	1.51 y	33:19	1.10	51.0	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.52e+07	1.38 y	38:42	1.37	49.0	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.31e+07	1.39 y	38:52	1.37	48.0	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.50e+07	1.34 y	39:18	1.36	51.7	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.18e+07	0.91 y	44:18	1.45	44.8	2.50	-	-	*	
OCDD	1.34e+07	0.98 y	49:54	1.43	98.2	2.50	-	-	*	
2,3,7,8-TCDF	5.58e+06	0.66 y	26:45	1.50	8.80	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.69e+07	1.53 y	31:36	0.94	47.3	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.66e+07	1.53 y	32:55	0.94	48.7	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.45e+07	1.23 y	37:18	0.93	45.0	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.78e+07	1.19 y	37:30	0.82	46.0	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.49e+07	1.19 y	38:27	0.92	45.5	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.74e+07	1.20 y	39:54	1.00	46.3	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.17e+07	1.01 y	42:24	1.39	46.2	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	1.03e+07	1.00 y	45:14	1.36	47.0	2.50	-	-	*	
OCDF	1.33e+07	0.89 y	50:16	0.79	92.0	2.50	-	-	*	
									Rec	
13C-2,3,7,8-TCDD	2.67e+07	0.85 y	27:29	1.02	87.2				87.2	
13C-1,2,3,7,8-PeCDD	2.79e+07	1.77 y	33:19	0.84	111				111	
13C-1,2,3,4,7,8-HxCDD	2.26e+07	1.24 y	38:41	1.07	93.5				93.5	
13C-1,2,3,6,7,8-HxCDD	1.99e+07	1.24 y	38:50	1.01	87.4				87.4	
13C-1,2,3,4,6,7,8-HpCDD	1.82e+07	0.94 y	44:17	0.86	94.2				94.2	
13C-OCDD	1.90e+07	0.95 y	49:53	0.55	154				77.1	
13C-2,3,7,8-TCDF	4.22e+07	0.87 y	26:44	0.99	91.2				91.2	
13C-1,2,3,7,8-PeCDF	3.80e+07	1.73 y	31:34	0.84	97.4				97.4	
13C-2,3,4,7,8-PeCDF	3.65e+07	1.72 y	32:54	0.81	96.5				96.5	
13C-1,2,3,4,7,8-HxCDF	3.47e+07	0.46 y	37:17	1.85	83.1				83.1	
13C-1,2,3,6,7,8-HxCDF	4.70e+07	0.47 y	37:29	2.54	82.2				82.2	
13C-2,3,4,6,7,8-HxCDF	3.57e+07	0.47 y	38:25	2.01	78.7				78.7	
13C-1,2,3,7,8,9-HxCDF	3.76e+07	0.47 y	39:51	2.03	82.1				82.1	
13C-1,2,3,4,6,7,8-HpCDF	1.82e+07	0.45 y	42:23	1.11	72.8				72.8	
13C-1,2,3,4,7,8,9-HpCDF	1.62e+07	0.44 y	45:12	0.80	89.4				89.4	
13C-OCDF	3.68e+07	0.96 y	50:15	1.08	151				75.4	
37Cl-2,3,7,8-TCDD	7.58e+06		27:31	0.69	36.9				92.3	
13C-1,2,3,4-TCDD	2.99e+07	0.86 y	26:54	-	66.6					
13C-1,2,3,4-TCDF	4.66e+07	0.87 y	25:38	-	64.4					
13C-1,2,3,7,8,9-HxCDD	2.25e+07	1.25 y	39:17	-	81.7					
						Fac Noise-1	Noise-2	DL	#Hom	
Total Tetra-Dioxins	3.14e+06		23:52	1.11	10.6	2.50	-	-	*	13
Total Penta-Dioxins	1.58e+07		33:19	1.10	51.3	2.50	-	-	*	6
Total Hexa-Dioxins	4.34e+07		38:42	1.37	149	2.50	-	-	*	7
Total Hepta-Dioxins	1.24e+07		42:55	1.45	47.1	2.50	-	-	*	20
Total Tetra-Furans	5.75e+06		22:36	1.50	9.06	2.50	-	-	*	14
1st Fn. Tot Penta-Furans	1.78e+05		23:13	0.94	0.510	2.50	-	-	*	PeCDF 26
Total Penta-Furans	3.46e+07		30:20	0.94	98.9	2.50	-	-	*	99.4 15
Total Hexa-Furans	6.49e+07		35:37	0.91	184	2.50	-	-	*	13
Total Hepta-Furans	2.26e+07		42:24	1.38	95.8	2.50	-	-	*	27

Analyst:  Date: 9/15/10

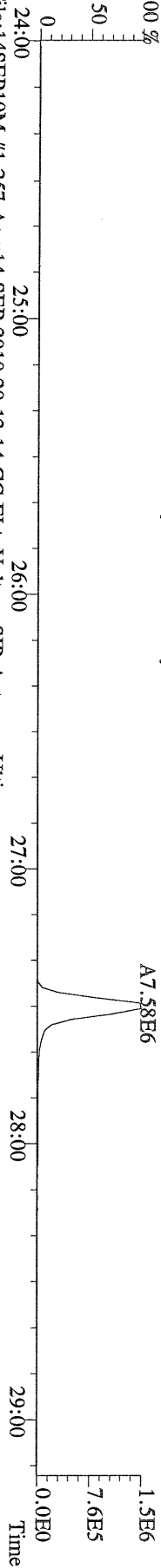
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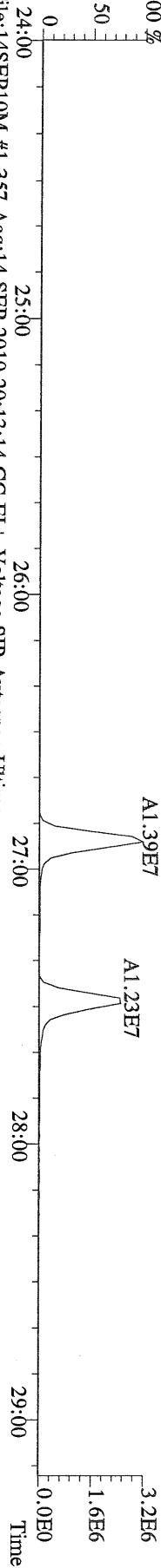
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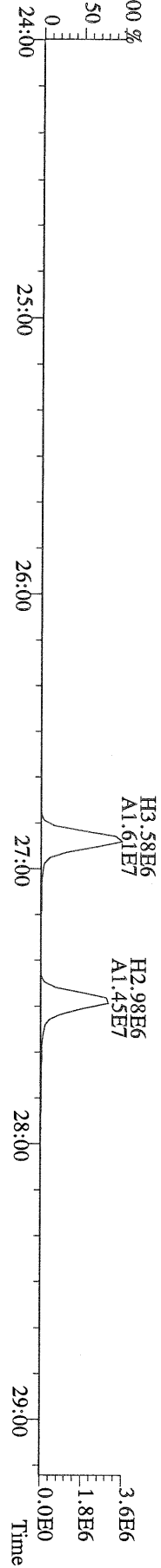
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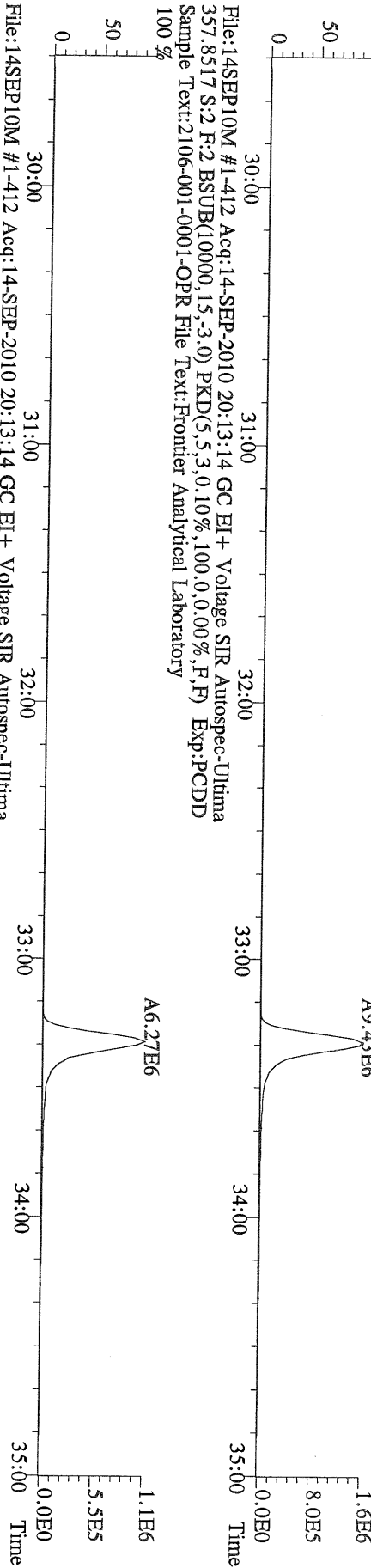
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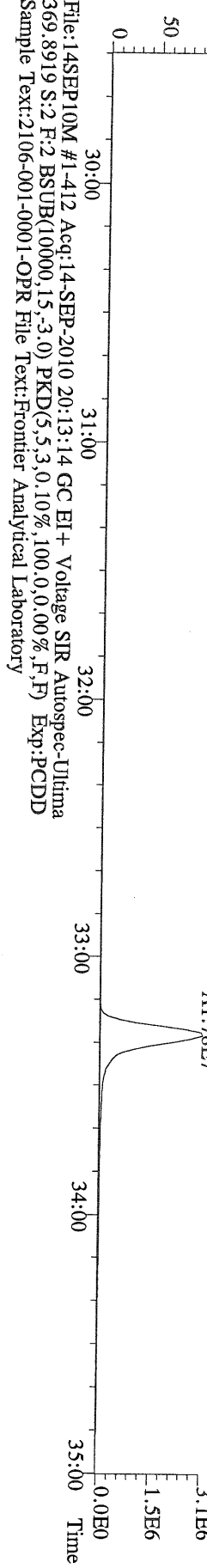
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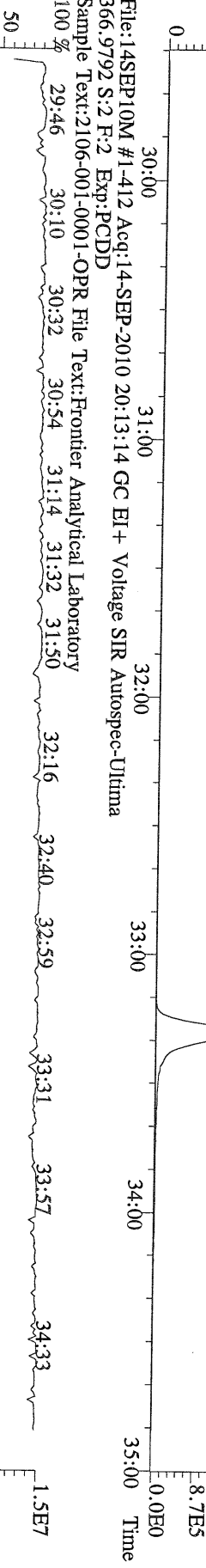
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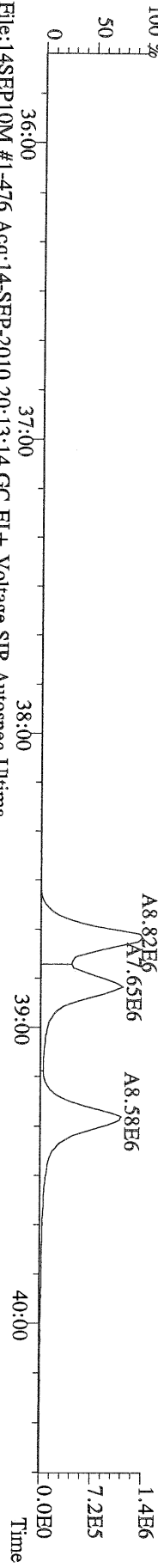
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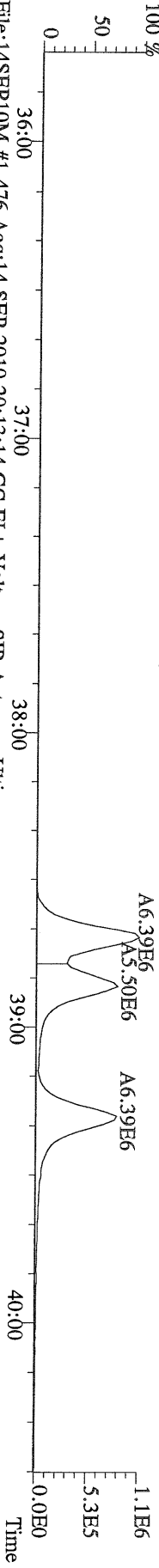
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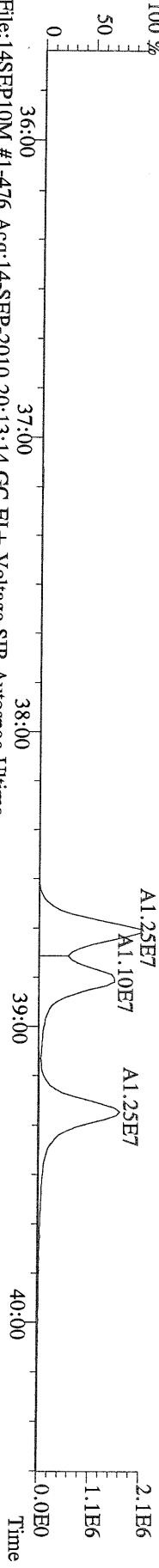
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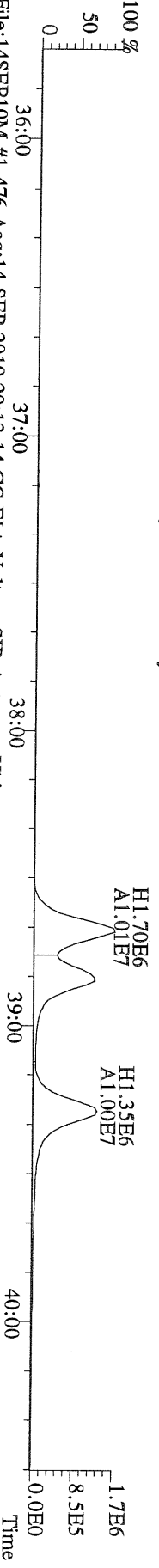
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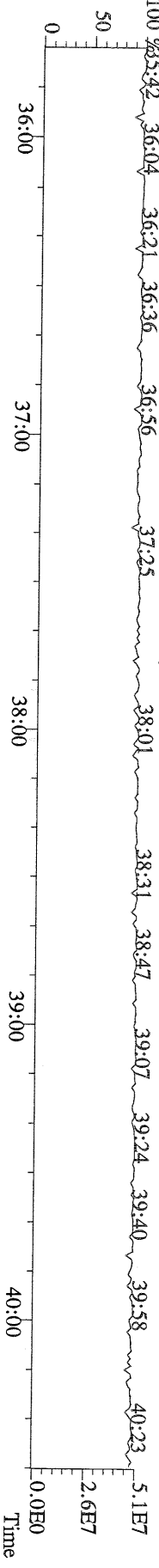
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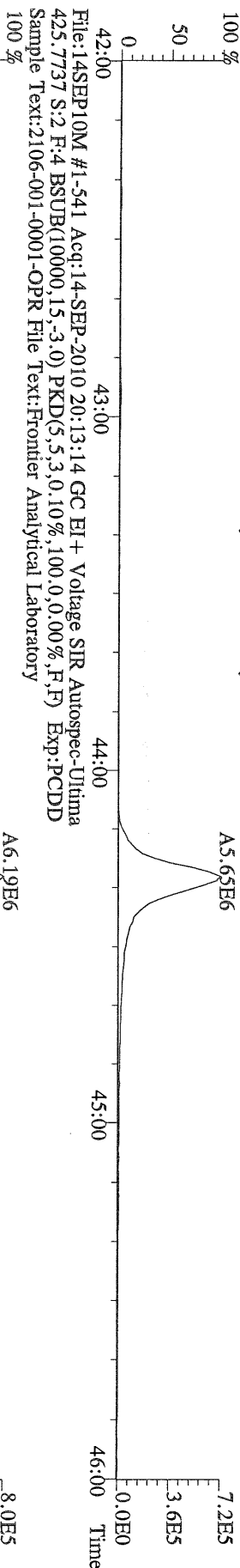
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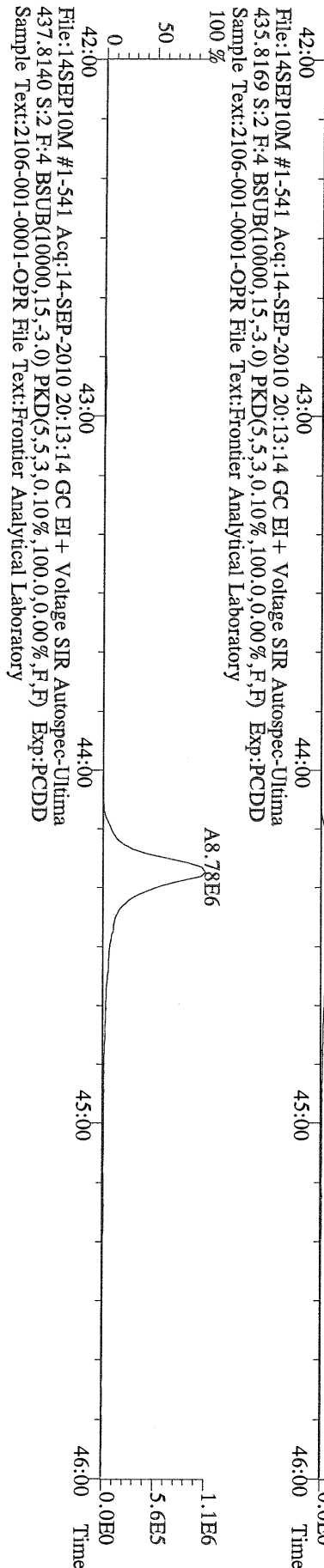
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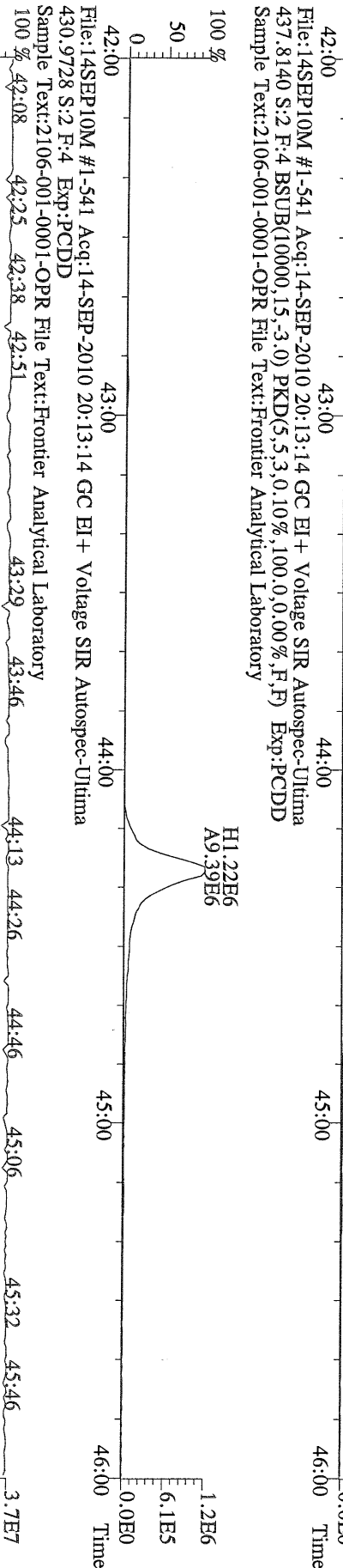
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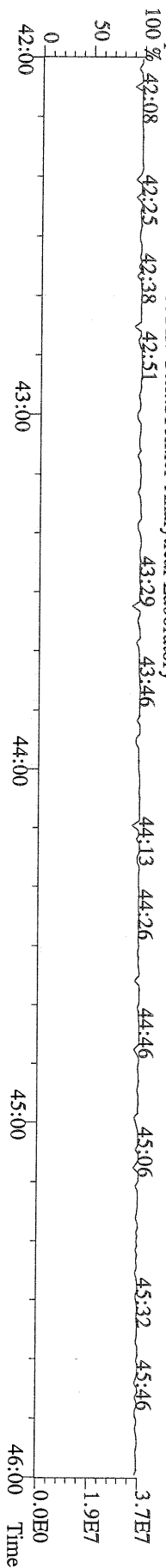
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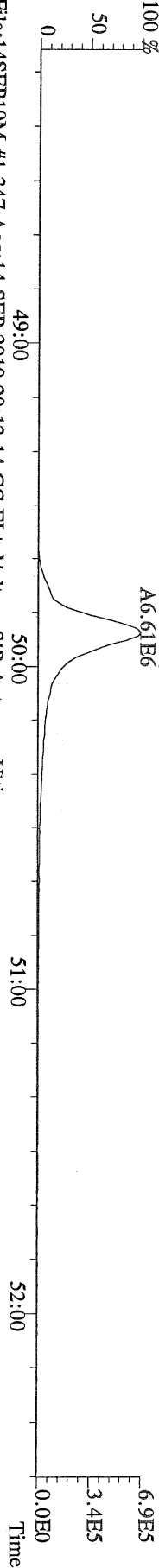
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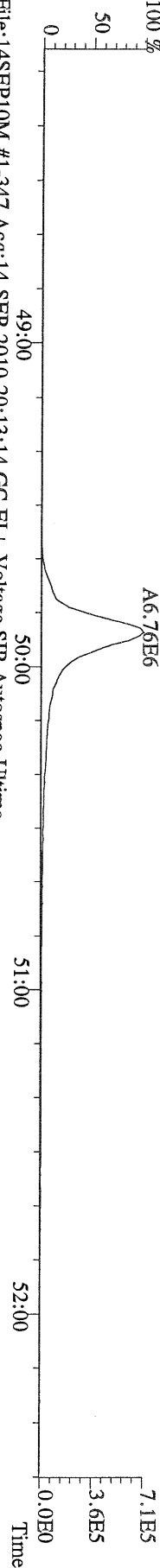
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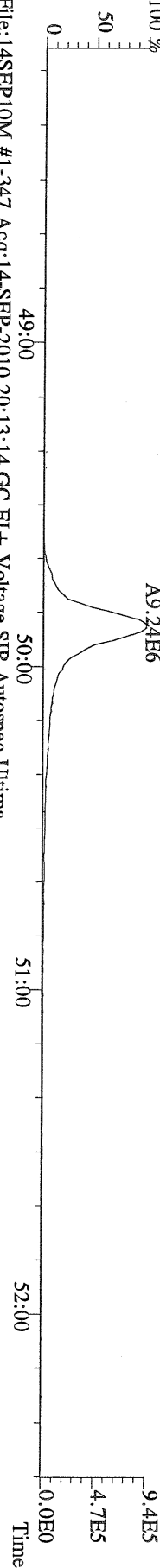
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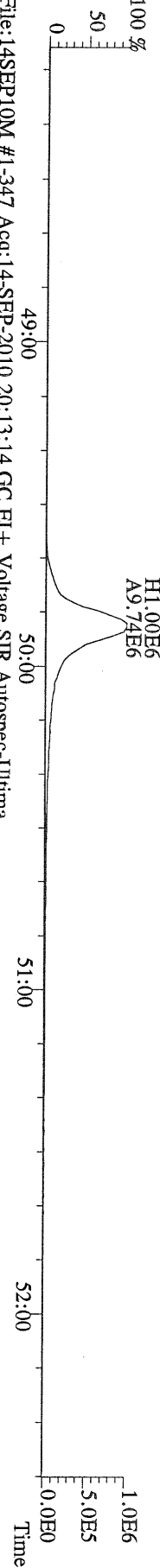
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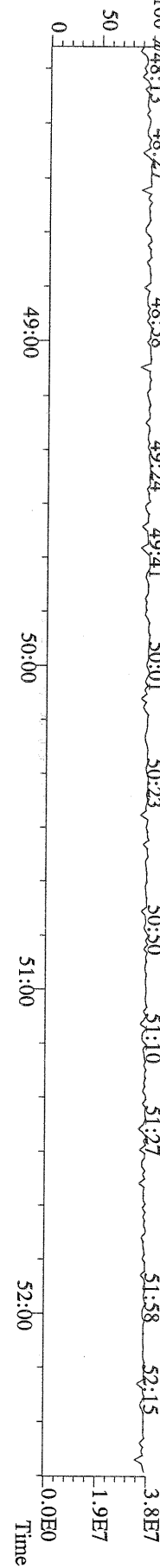
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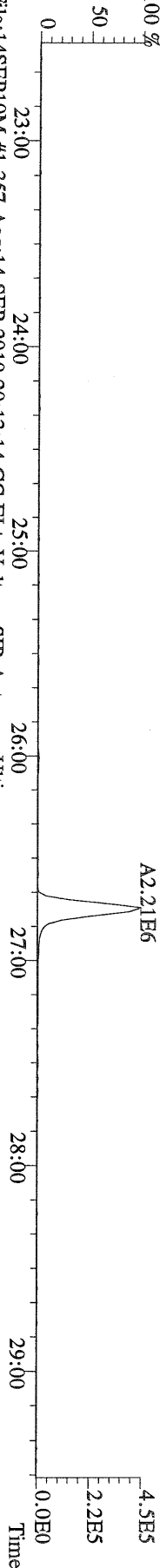
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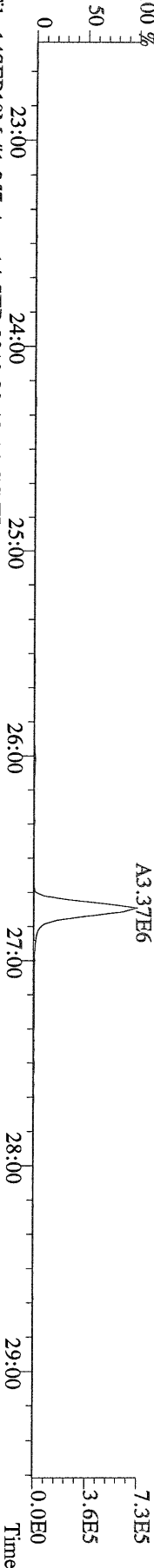
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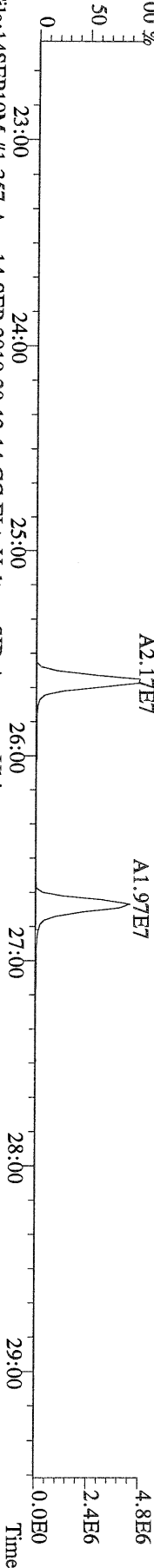
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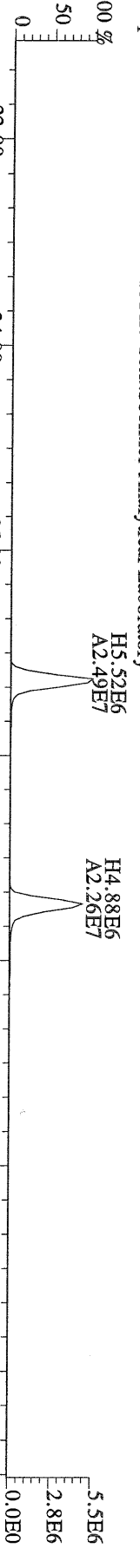
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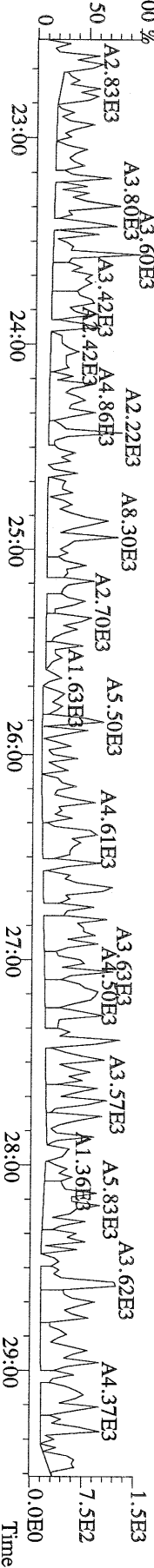
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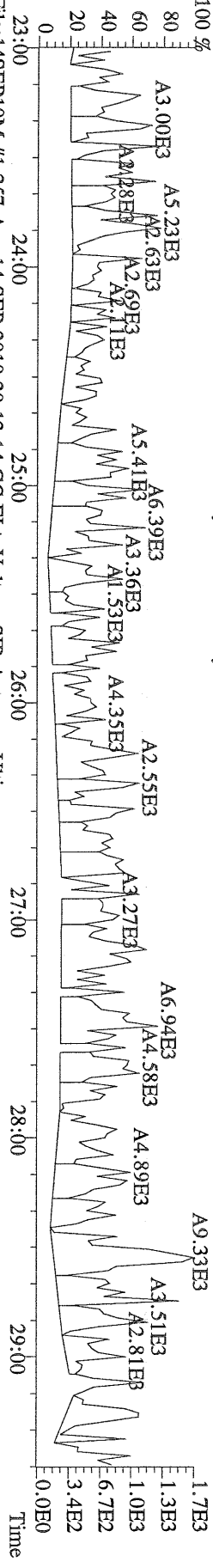


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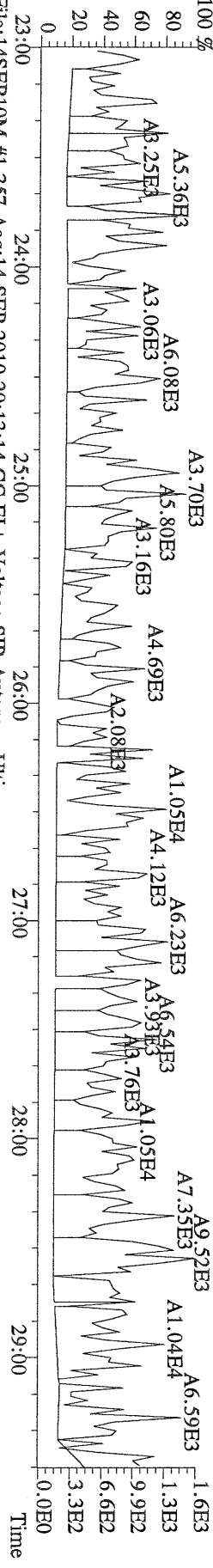




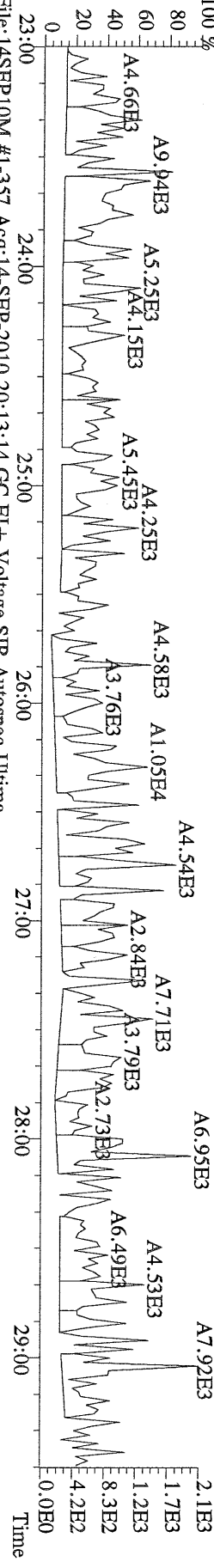
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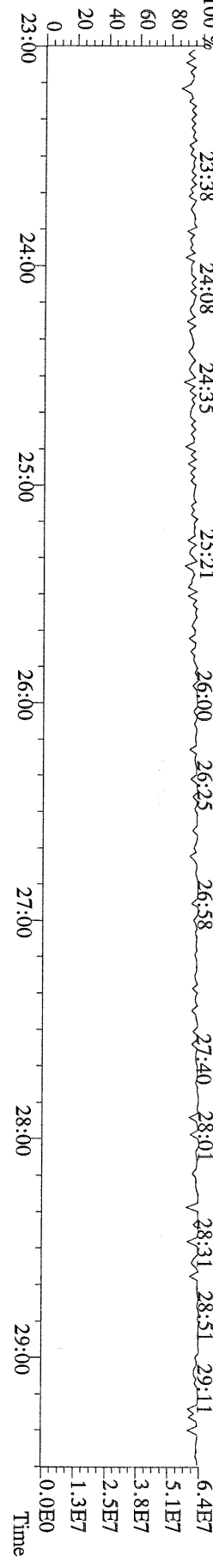
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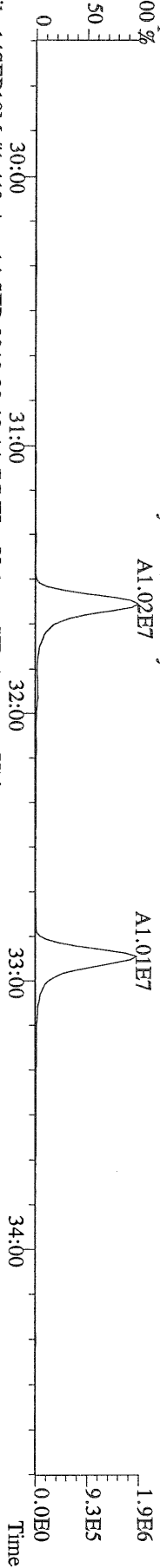
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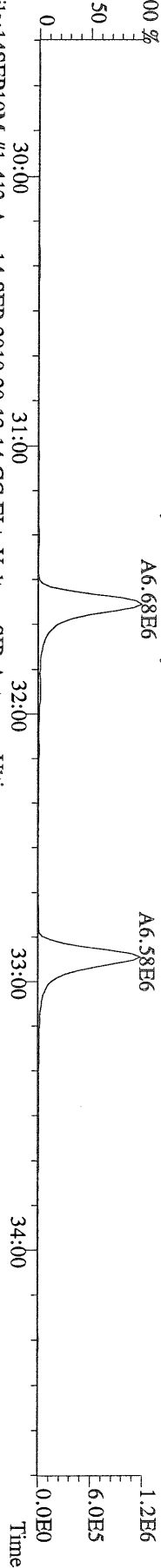
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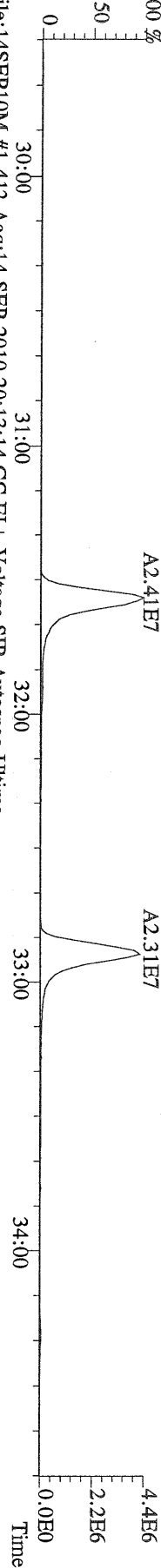
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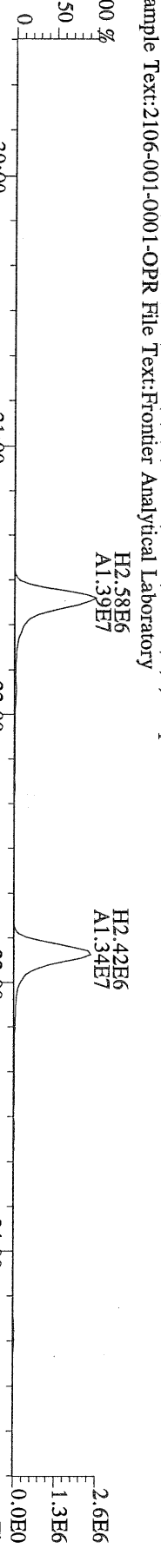
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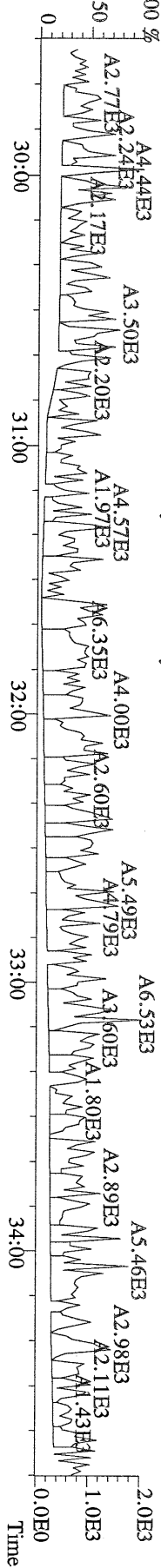
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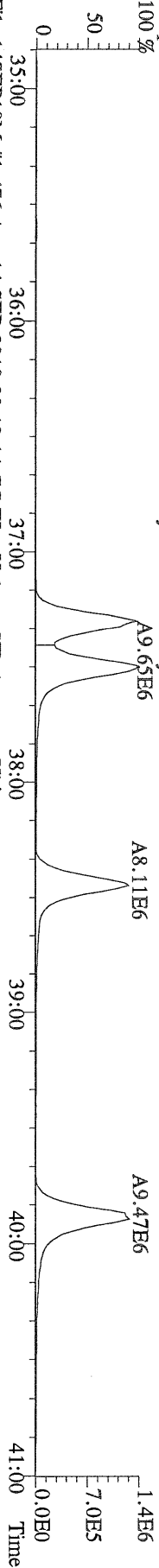
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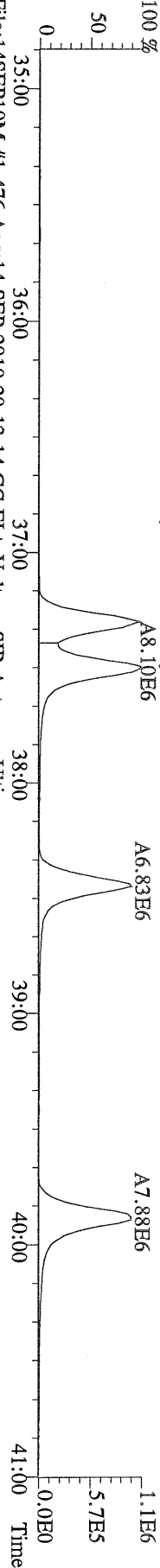
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 409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



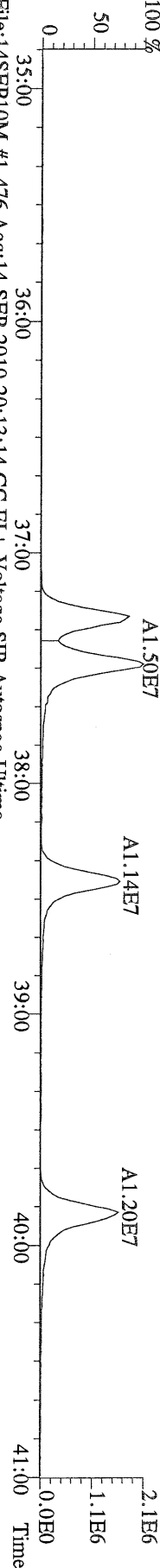
File:14SEP10M #1-476 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



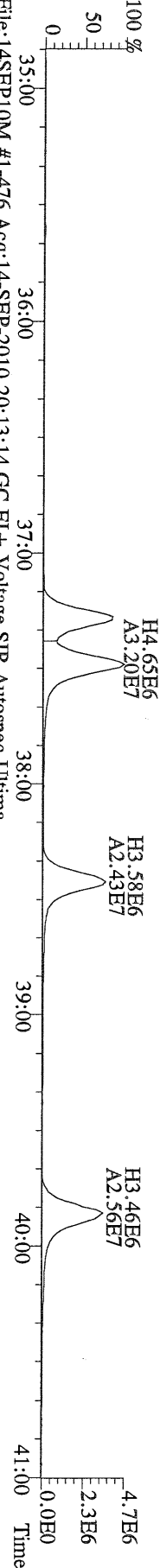
File:14SEP10M #1-476 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
 375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



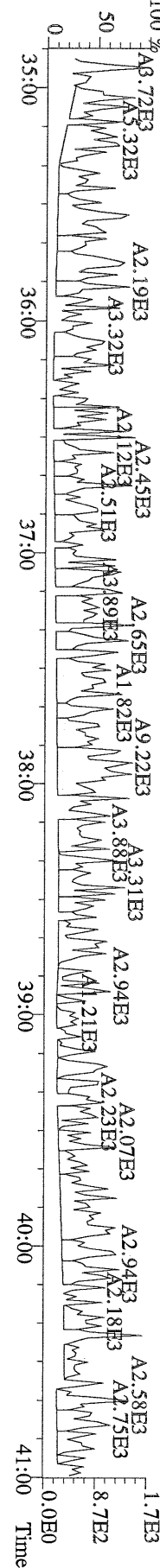
File:14SEP10M #1-476 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



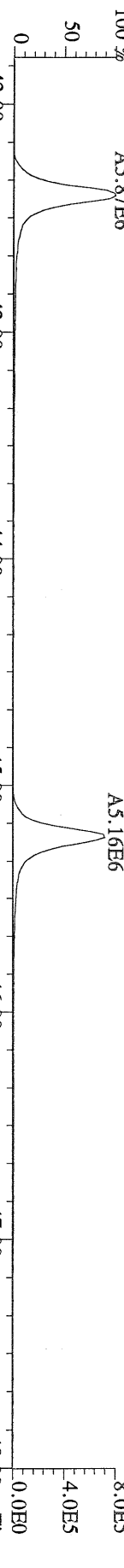
File:14SEP10M #1-476 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
 385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



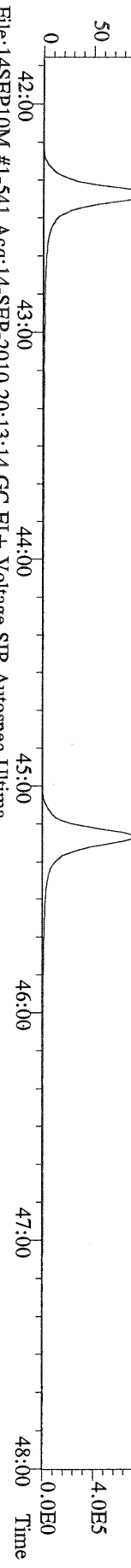
File:14SEP10M #1-476 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



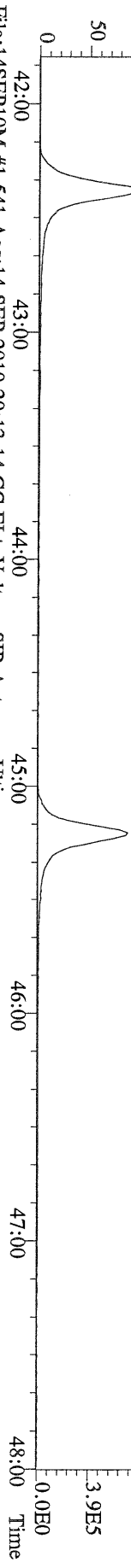
File:14SEP10M #1-541 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



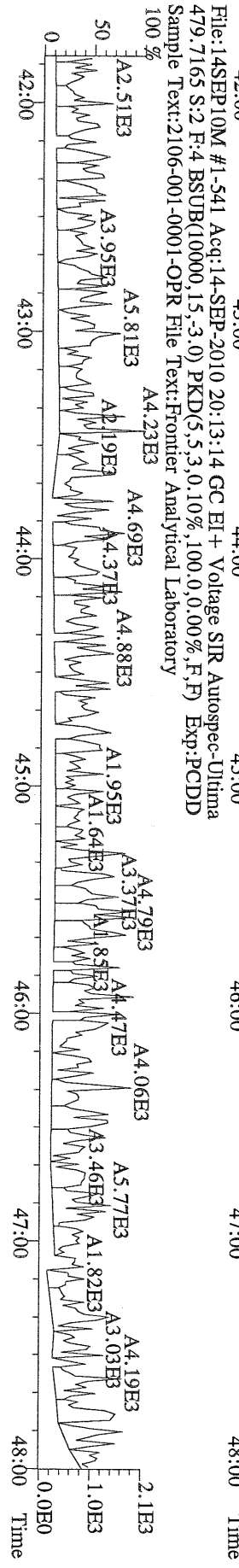
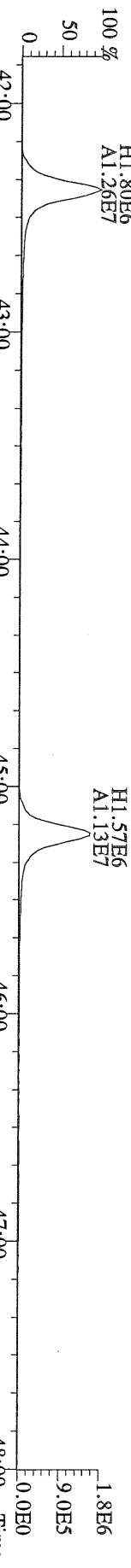
File:14SEP10M #1-541 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



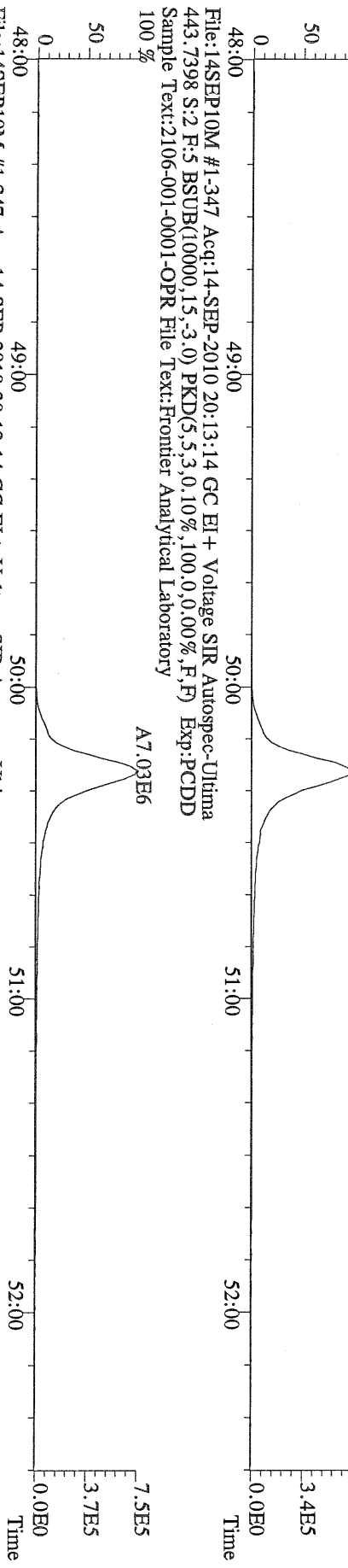
File:14SEP10M #1-541 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



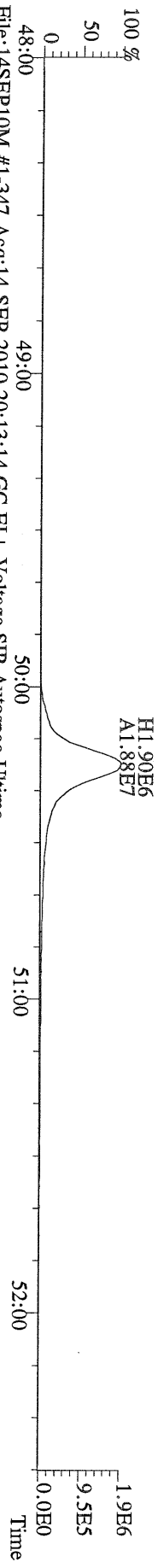
File:14SEP10M #1-541 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



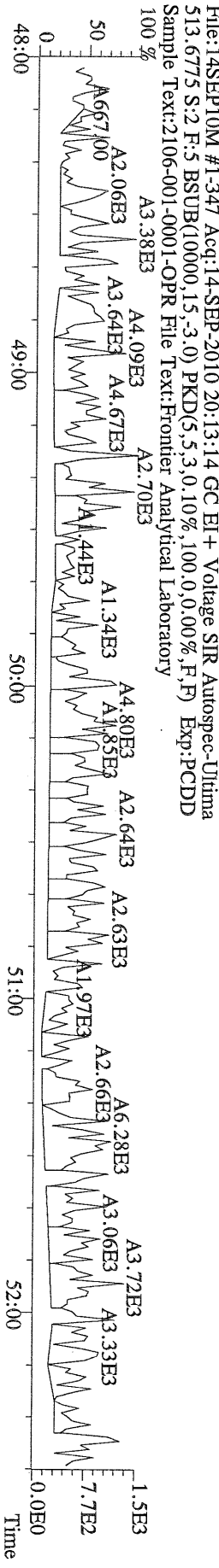
File:14SEP10M #1-347 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
455.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory




File:14SEP10M #1-347 Acq:14-SEP-2010 20:13:14 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2106-001-0001-OPR File Text:Frontier Analytical Laboratory



NATO 1989 Tox: 36.8  
 WHO 1998 Tox: 29.1      WHO 2005 Tox: 31.0

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	9.83e+04	0.77 y	27:31	1.11	1.28		2.50	-	-	*	
1,2,3,7,8-PeCDD	4.13e+05	1.45 y	33:20	1.10	5.19		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	5.68e+05	1.37 y	38:42	1.37	6.78		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	2.52e+06	1.41 y	38:52	1.37	32.4		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.62e+06	1.34 y	39:19	1.36	20.2		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	8.25e+07	0.90 y	44:19	1.45	964		2.50	-	-	*	
OCDD	6.16e+08	0.96 y	49:56	1.43	10300		2.50	-	-	*	
2,3,7,8-TCDF	8.01e+04	0.74 y	26:46	1.50	0.497	J	2.50	-	-	*	
1,2,3,7,8-PeCDF	7.74e+04	1.49 y	31:36	0.94	0.829	J	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.73e+05	1.61 y	32:57	0.94	1.93	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	5.87e+05	1.10 y	37:18	0.93	6.49		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	5.09e+05	1.06 y	37:30	0.82	4.99	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	6.88e+05	1.18 y	38:27	0.92	7.53		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	8.99e+04	1.30 y	39:56	1.00	0.837	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	2.16e+07	1.00 y	42:25	1.39	282		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	6.11e+05	0.93 y	45:14	1.36	9.17		2.50	-	-	*	
OCDF	5.73e+07	0.88 y	50:18	0.79	1060		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.77e+07	0.87 y	27:30	1.02	363					90.6	
13C-1,2,3,7,8-PeCDD	2.89e+07	1.72 y	33:18	0.84	462					115	
13C-1,2,3,4,7,8-HxCDD	2.44e+07	1.24 y	38:41	1.07	365					91.1	
13C-1,2,3,6,7,8-HxCDD	2.28e+07	1.24 y	38:51	1.01	361					90.0	
13C-1,2,3,4,6,7,8-HpCDD	2.36e+07	0.90 y	44:18	0.86	443					110	
13C-OCDD	3.33e+07	0.97 y	49:55	0.55	979					122	
13C-2,3,7,8-TCDF	4.30e+07	0.88 y	26:45	0.99	371					92.6	
13C-1,2,3,7,8-PeCDF	3.97e+07	1.76 y	31:35	0.84	407					101	
13C-2,3,4,7,8-PeCDF	3.84e+07	1.73 y	32:54	0.81	405					101	
13C-1,2,3,4,7,8-HxCDF	3.91e+07	0.47 y	37:17	1.85	339					84.5	
13C-1,2,3,6,7,8-HxCDF	4.98e+07	0.46 y	37:29	2.54	316					78.7	
13C-2,3,4,6,7,8-HxCDF	3.99e+07	0.47 y	38:26	2.01	318					79.3	
13C-1,2,3,7,8,9-HxCDF	4.32e+07	0.47 y	39:52	2.03	341					85.1	
13C-1,2,3,4,6,7,8-HpCDF	2.21e+07	0.44 y	42:23	1.11	319					79.6	
13C-1,2,3,4,7,8,9-HpCDF	1.97e+07	0.44 y	45:13	0.80	393					98.1	
13C-OCDF	5.50e+07	0.95 y	50:17	1.08	815					102	
37Cl-2,3,7,8-TCDD	7.39e+06		27:31	0.69	145					90.3	
13C-1,2,3,4-TCDD	2.98e+07	0.85 y	26:54	-	13.3						
13C-1,2,3,4-TCDF	4.67e+07	0.88 y	25:39	-	12.9						
13C-1,2,3,7,8,9-HxCDD	2.50e+07	1.25 y	39:18	-	18.1						
Total Tetra-Dioxins	1.37e+06		24:31	1.11	17.8		2.50	-	-	*	16
Total Penta-Dioxins	3.60e+06		30:21	1.10	45.3		2.50	-	-	*	10
Total Hexa-Dioxins	1.97e+07		36:14	1.37	245		2.50	-	-	*	8
Total Hepta-Dioxins	1.62e+08		42:55	1.45	1900		2.50	-	-	*	2
Total Tetra-Furans	2.48e+06		23:10	1.50	15.4	D,M	2.50	-	-	*	16
1st Fn. Tot Penta-Furans	2.63e+06		28:33	0.94	28.7	D,M	2.50	-	-	*	10
Total Penta-Furans	2.51e+06		30:13	0.94	27.4	D,M	2.50	-	-	*	10
Total Hexa-Furans	1.83e+07		35:22	0.91	188	D,M	2.50	-	-	*	10
Total Hepta-Furans	6.38e+07		42:25	1.38	872		2.50	-	-	*	4

Analyst:       Date: 9/15/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 11

File: 14SEP10M

S: 4 I: 1 F: 1

Acquired: 14-SEP-10 22:03:52

Total Concentration: 17.8

Unnamed Concentration: 16.553

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:31	4.47e+04	5.42e+04	0.83 y	9.88e+04	1.29	
24:47	3.42e+04	4.01e+04	0.85 y	7.42e+04	0.967	
25:06	3.89e+04	5.50e+04	0.71 y	9.39e+04	1.22	
25:44	4.45e+04	5.47e+04	0.81 y	9.92e+04	1.29	
25:54	6.19e+04	7.99e+04	0.77 y	1.42e+05	1.85	
26:04	5.81e+04	7.08e+04	0.82 y	1.29e+05	1.68	
26:13	2.24e+04	2.74e+04	0.82 y	4.98e+04	0.649	
26:26	2.44e+04	2.95e+04	0.83 y	5.39e+04	0.703	
26:36	3.68e+04	4.57e+04	0.80 y	8.25e+04	1.07	
26:54	6.50e+04	8.76e+04	0.74 y	1.53e+05	1.99	
27:17	2.57e+04	3.51e+04	0.73 y	6.09e+04	0.793	
27:23	2.05e+04	2.41e+04	0.85 y	4.46e+04	0.582	
27:31	4.27e+04	5.56e+04	0.77 y	9.83e+04	1.28	2,3,7,8-TCDD
27:50	4.64e+04	5.54e+04	0.84 y	1.02e+05	1.33	
27:56	1.39e+04	1.70e+04	0.82 y	3.10e+04	0.403	
28:29	2.31e+04	3.31e+04	0.70 y	5.62e+04	0.732	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 11

File: 14SEP10M

S: 4 I: 1 F: 2

Acquired: 14-SEP-10 22:03:52

Total Concentration: 45.3

Unnamed Concentration: 40.083

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	3.94e+05	2.70e+05	1.46 y	6.64e+05	8.34	
30:58	2.38e+05	1.63e+05	1.46 y	4.01e+05	5.04	
31:35	1.53e+05	9.98e+04	1.53 y	2.52e+05	3.17	
31:48	2.97e+05	2.09e+05	1.42 y	5.05e+05	6.35	
31:57	1.82e+05	1.13e+05	1.61 y	2.95e+05	3.71	
32:15	3.56e+05	2.26e+05	1.58 y	5.82e+05	7.31	
32:44	7.25e+04	4.40e+04	1.65 y	1.16e+05	1.46	
33:20	2.44e+05	1.69e+05	1.45 y	4.13e+05	5.19	1,2,3,7,8-PeCDD
33:26	9.61e+04	6.06e+04	1.58 y	1.57e+05	1.97	
33:54	1.29e+05	8.67e+04	1.49 y	2.16e+05	2.72	



Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 11

File: 14SEP10M

S: 4 I: 1 F: 3

Acquired: 14-SEP-10 22:03:52

Total Concentration: 245

Unnamed Concentration: 185.532

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	2.93e+06	2.12e+06	1.39 y	5.05e+06	62.7	
37:10	5.26e+05	3.85e+05	1.37 y	9.12e+05	11.3	
37:35	4.62e+06	3.33e+06	1.39 y	7.95e+06	98.6	
37:46	3.58e+05	2.54e+05	1.41 y	6.11e+05	7.59	
38:42	3.28e+05	2.39e+05	1.37 y	5.68e+05	6.78	1,2,3,4,7,8-HxCDD
38:52	1.48e+06	1.05e+06	1.41 y	2.52e+06	32.4	1,2,3,6,7,8-HxCDD
39:10	2.47e+05	1.82e+05	1.36 y	4.29e+05	5.33	
39:19	9.26e+05	6.89e+05	1.34 y	1.62e+06	20.2	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 11

File: 14SEP10M

S: 4 I: 1 F: 4

Acquired: 14-SEP-10 22:03:52

Total Concentration: 1900

Unnamed Concentration: 935.920

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:55	3.79e+07	4.21e+07	0.90 y	8.00e+07	936	
44:19	3.91e+07	4.34e+07	0.90 y	8.25e+07	964	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 11 File: 14SEP10M S: 4 I: 1 F: 1  
Acquired: 14-SEP-10 22:03:52

Total Concentration: 15.4

Unnamed Concentration: 14.913

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:10	1.86e+04	2.17e+04	0.86 y	4.03e+04	0.250	
23:32	5.27e+04	7.82e+04	0.67 y	1.31e+05	0.812	
23:56	2.67e+05	4.03e+05	0.66 y	6.70e+05	4.16	
24:18	7.23e+04	1.09e+05	0.66 y	1.82e+05	1.13	
24:32	7.09e+04	1.02e+05	0.69 y	1.73e+05	1.07	
24:51	1.13e+05	1.67e+05	0.68 y	2.80e+05	1.73	
25:04	2.27e+04	3.44e+04	0.66 y	5.71e+04	0.354	
25:27	2.98e+04	3.88e+04	0.77 y	6.86e+04	0.425	
25:33	1.31e+05	1.98e+05	0.66 y	3.29e+05	2.04	
25:40	3.76e+04	5.20e+04	0.72 y	8.96e+04	0.556	
26:01	2.67e+04	3.56e+04	0.75 y	6.22e+04	0.386	
26:46	3.41e+04	4.60e+04	0.74 y	8.01e+04	0.497	2,3,7,8-TCDF
27:05	3.35e+04	5.10e+04	0.66 y	8.45e+04	0.524	
27:58	2.57e+04	3.49e+04	0.74 y	6.06e+04	0.376	
28:11	3.70e+04	5.22e+04	0.71 y	8.92e+04	0.553	
28:34	3.92e+04	4.80e+04	0.82 y	8.73e+04	0.541	

Totals class: 1st Fn. Tot Penta-Furans      Entry #: 43

Run: 11      File: 14SEP10M      S: 4 I: 1 F: 1  
Acquired: 14-SEP-10 22:03:52

Total Concentration: 28.7      Unnamed Concentration: 28.730

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:33	1.62e+06	1.01e+06	1.60 y	2.63e+06	28.7	

Totals class: Total Penta-Furans

Entry #: 44

Run: 11

File: 14SEP10M

S: 4 I: 1 F: 2

Acquired: 14-SEP-10 22:03:52

Total Concentration: 27.4

Unnamed Concentration: 24.674

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:13	7.61e+04	4.43e+04	1.72 y	1.20e+05	1.32	
30:21	7.08e+05	4.71e+05	1.50 y	1.18e+06	12.9	
31:03	2.77e+05	1.96e+05	1.41 y	4.74e+05	5.18	
31:22	2.62e+04	1.68e+04	1.56 y	4.31e+04	0.471	
31:36	4.62e+04	3.11e+04	1.49 y	7.74e+04	0.829	1,2,3,7,8-PeCDF
31:51	3.70e+04	2.66e+04	1.39 y	6.36e+04	0.696	
31:57	8.64e+04	5.91e+04	1.46 y	1.45e+05	1.59	
32:46	2.63e+04	1.68e+04	1.56 y	4.31e+04	0.471	
32:57	1.07e+05	6.64e+04	1.61 y	1.73e+05	1.93	2,3,4,7,8-PeCDF
32:58	1.10e+05	7.87e+04	1.40 y	1.89e+05	2.06	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 11

File: 14SEP10M

S: 4 I: 1 F: 3

Acquired: 14-SEP-10 22:03:52

Total Concentration: 188

Unnamed Concentration: 167.878

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:22	1.02e+06	8.43e+05	1.21 y	1.86e+06	19.1	
35:38	3.57e+06	2.96e+06	1.21 y	6.53e+06	66.9	
36:14	1.05e+05	8.72e+04	1.21 y	1.92e+05	1.97	
36:32	4.12e+06	3.44e+06	1.20 y	7.56e+06	77.4	
37:09	6.20e+04	4.65e+04	1.33 y	1.08e+05	1.11	
37:18	3.07e+05	2.80e+05	1.10 y	5.87e+05	6.49	1,2,3,4,7,8-HxCDF
37:30	2.62e+05	2.47e+05	1.06 y	5.09e+05	4.99	1,2,3,6,7,8-HxCDF
38:12	7.31e+04	6.43e+04	1.14 y	1.37e+05	1.41	
38:27	3.73e+05	3.15e+05	1.18 y	6.88e+05	7.53	2,3,4,6,7,8-HxCDF
39:56	5.08e+04	3.91e+04	1.30 y	8.99e+04	0.837	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 11

File: 14SEP10M

S: 4 I: 1 F: 4

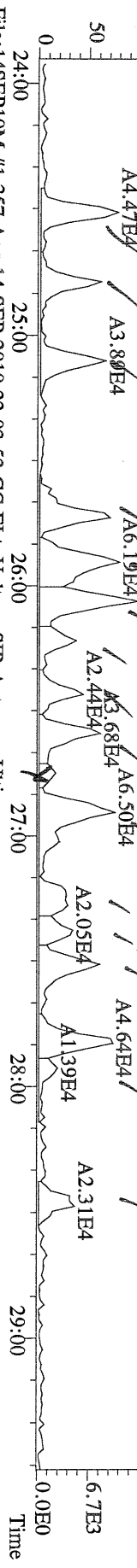
Acquired: 14-SEP-10 22:03:52

Total Concentration: 872

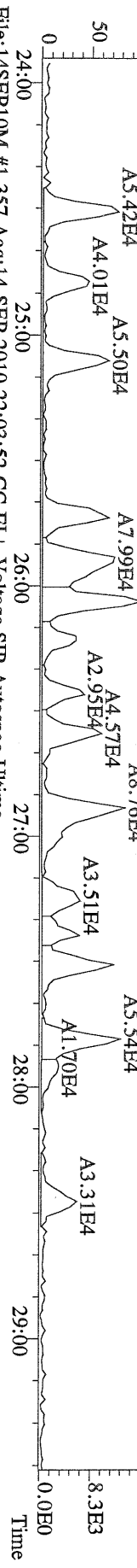
Unnamed Concentration: 581.504

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:25	1.08e+07	1.08e+07	1.00 y	2.16e+07	282	1,2,3,4,6,7,8-HpCDF
42:57	2.17e+05	1.87e+05	1.16 y	4.04e+05	5.63	
43:13	2.06e+07	2.06e+07	1.00 y	4.13e+07	576	
45:14	2.94e+05	3.16e+05	0.93 y	6.11e+05	9.17	1,2,3,4,7,8,9-HpCDF

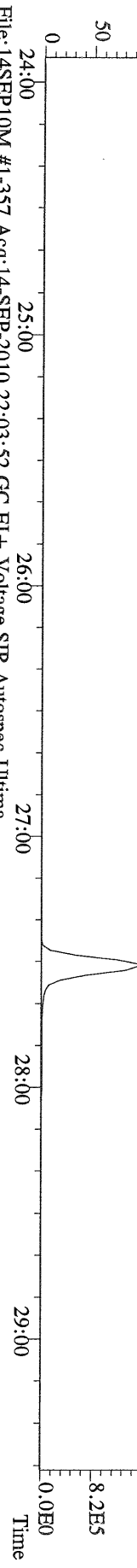
File:14SEP10M #1-357 Acq:14-SEP-2010 22:03:52 GC EI+ Voltage SIR Autospec-Ultima  
 319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-001-0001-SA File Text:Frontier Analytical Laboratory



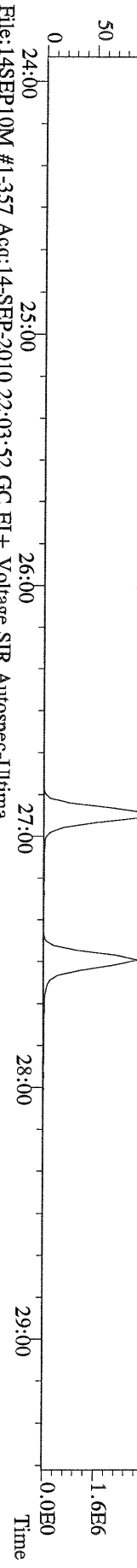
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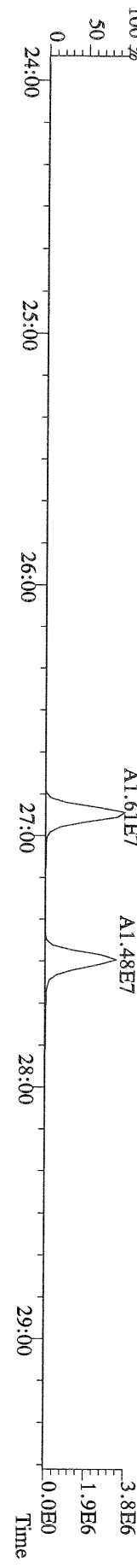
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File:14SEP10M #1-357 Acq:14-SEP-2010 22:03:52 GC EI+ Voltage SIR Autospec-Ultima  
 331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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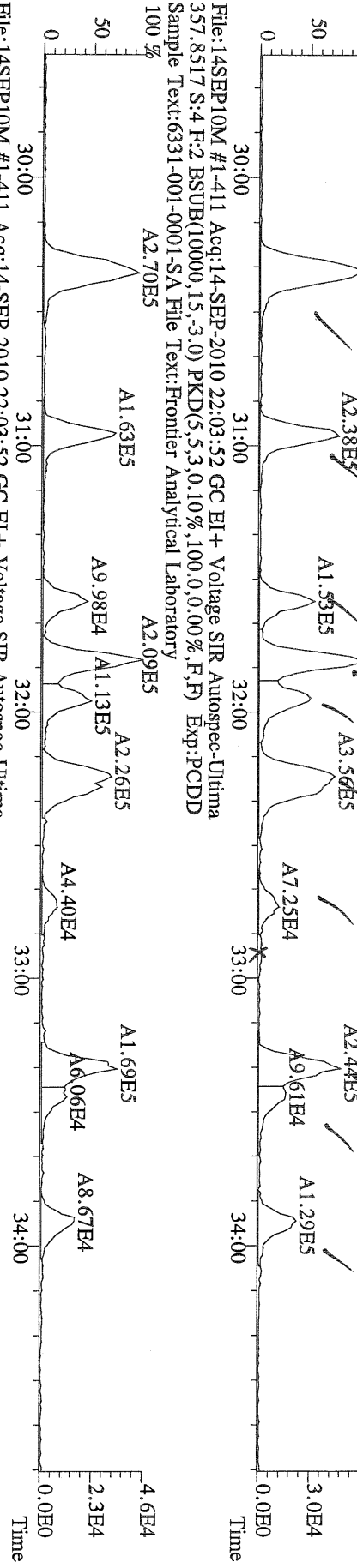


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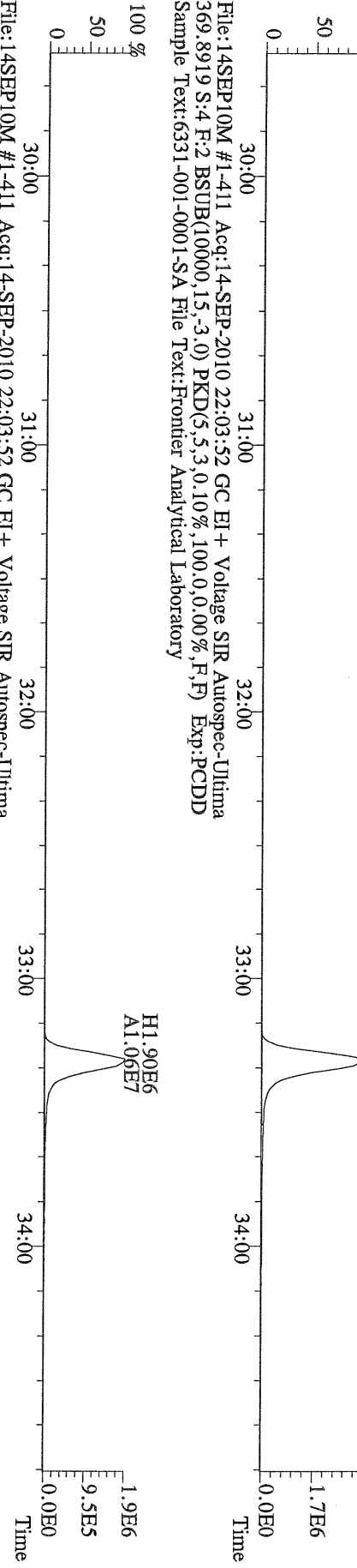




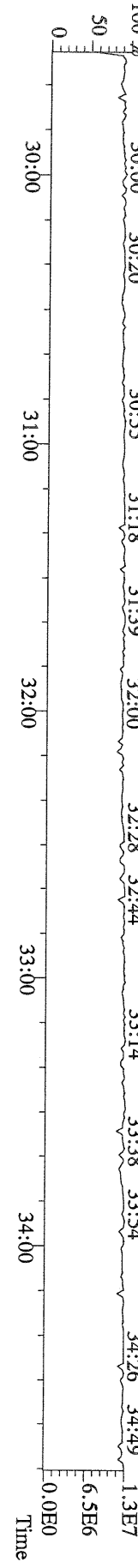
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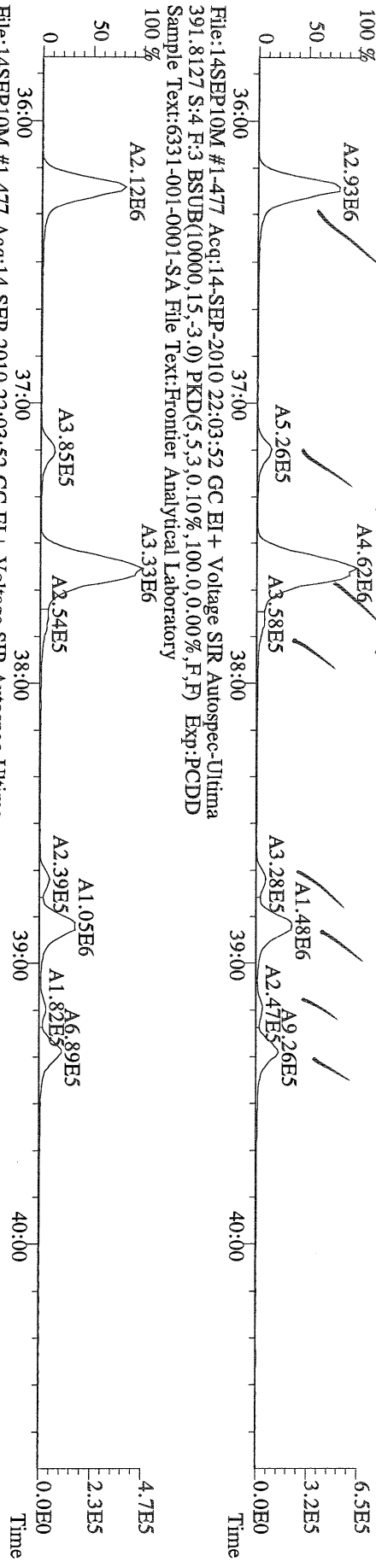
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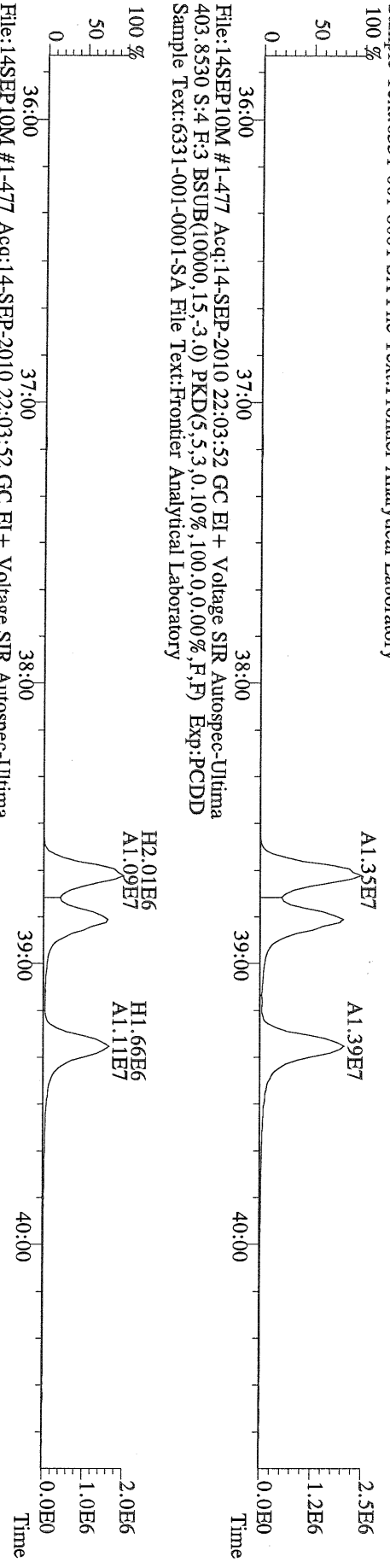
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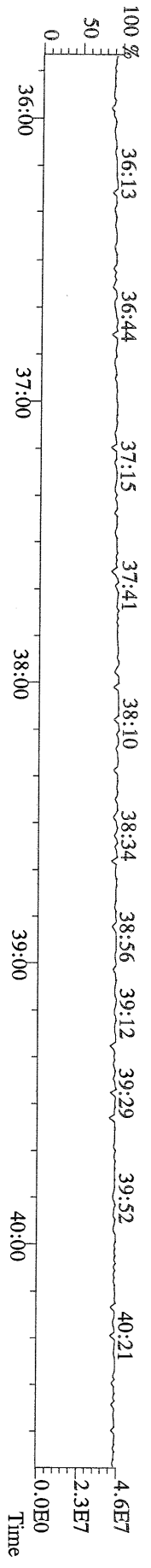
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389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-001-0001-SA File Text:Frontier Analytical Laboratory



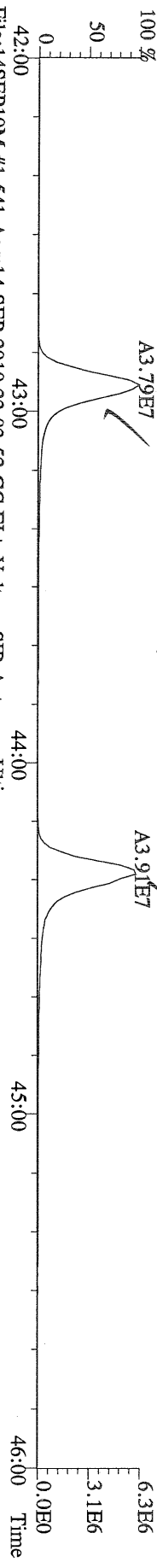
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401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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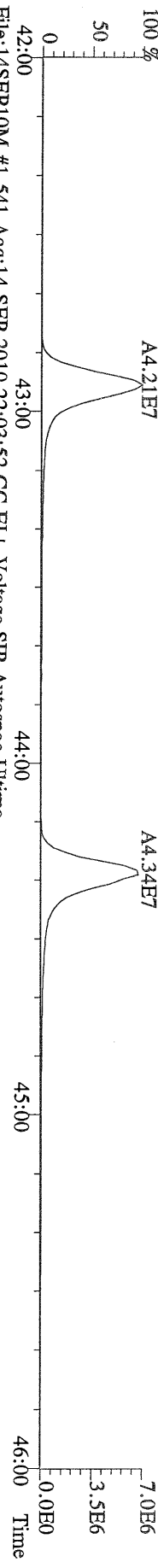
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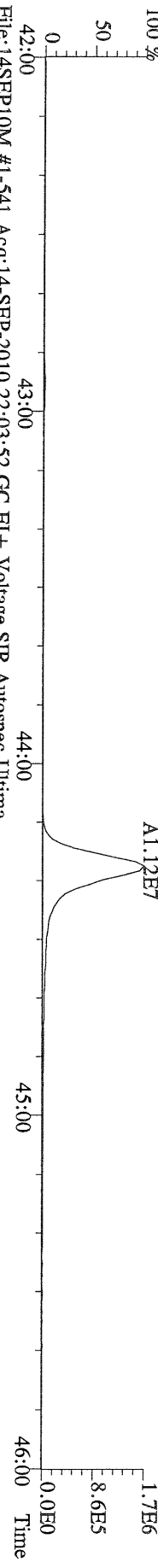
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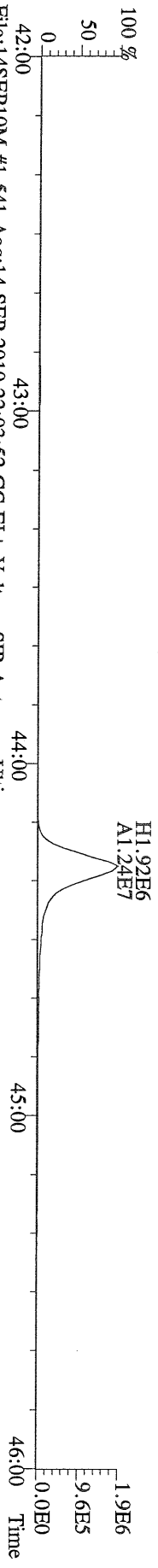
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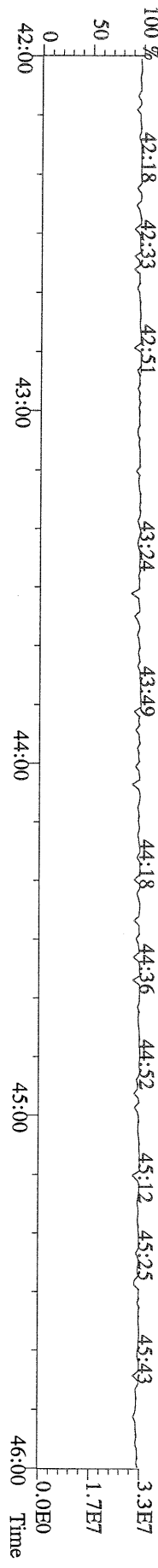
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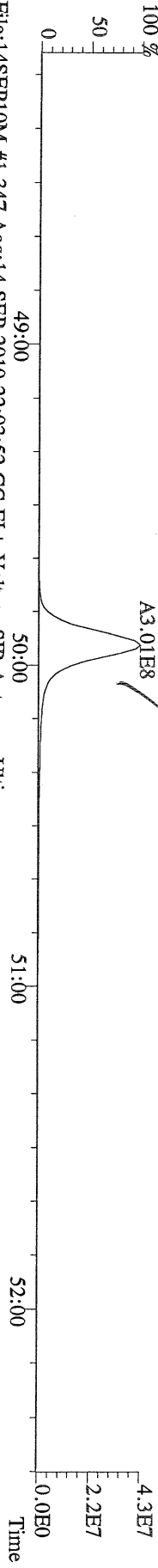
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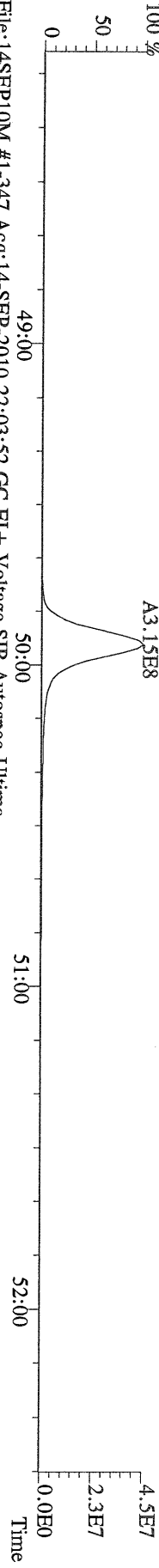
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430.9728 S:4 F:4 Exp:PCDD  
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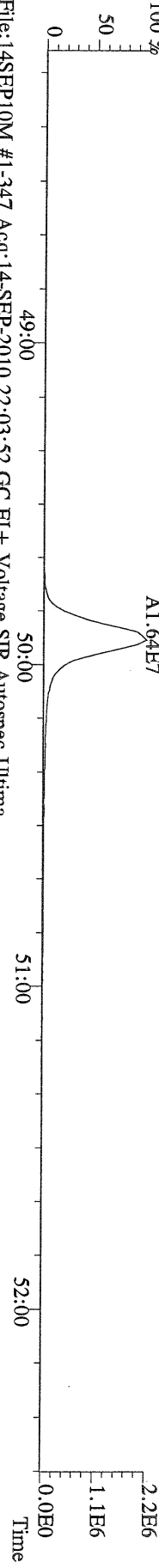
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457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
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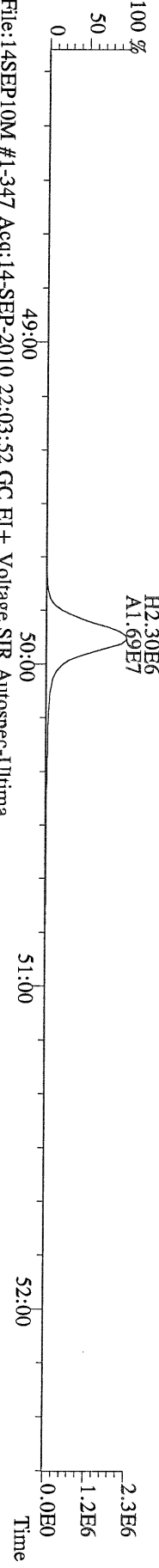
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100 %



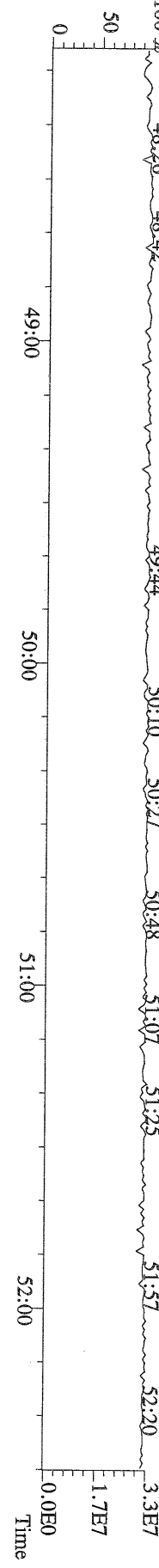
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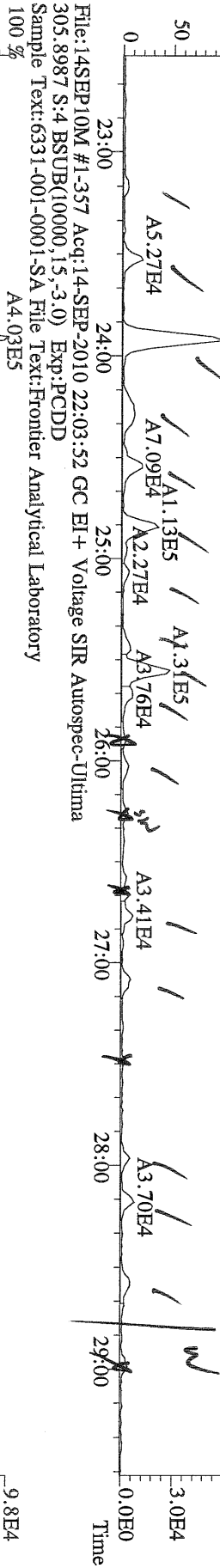
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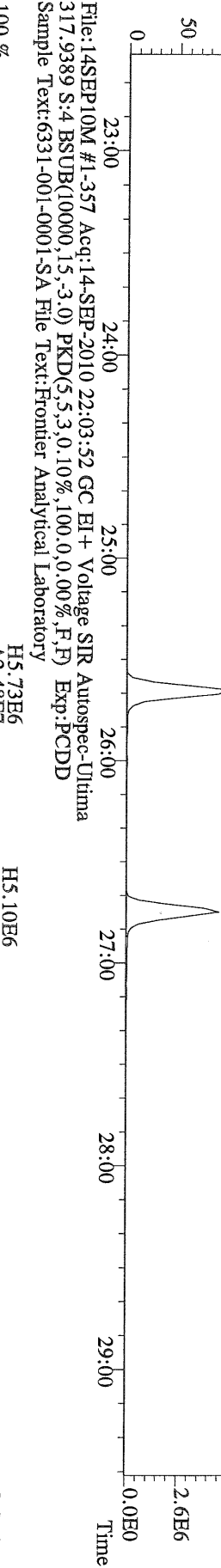
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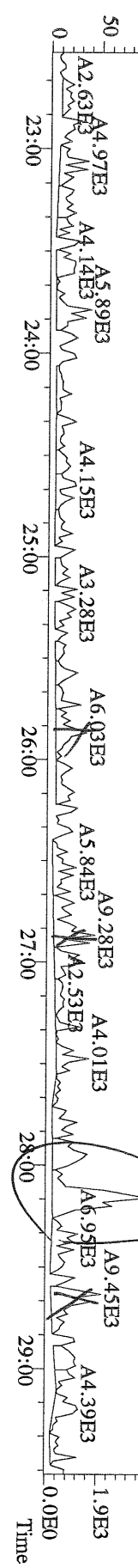
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 303.9016 S:4 BSUB(10000,15,-3.0) Exp:PCDD  
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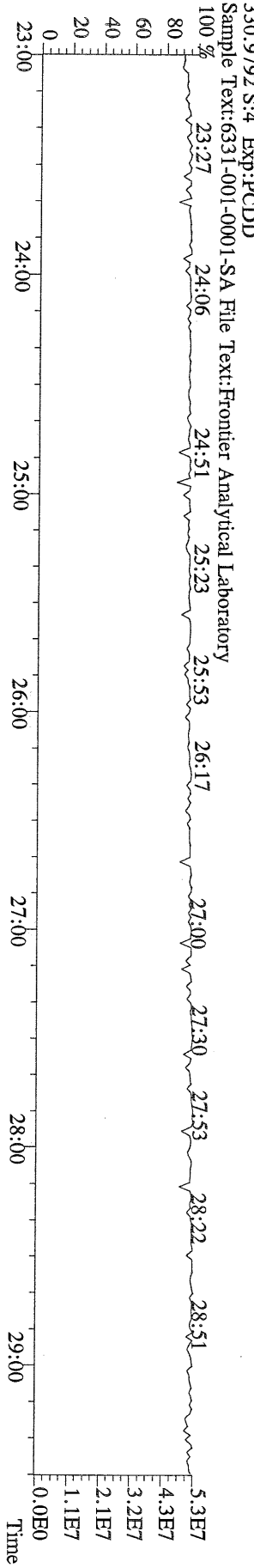
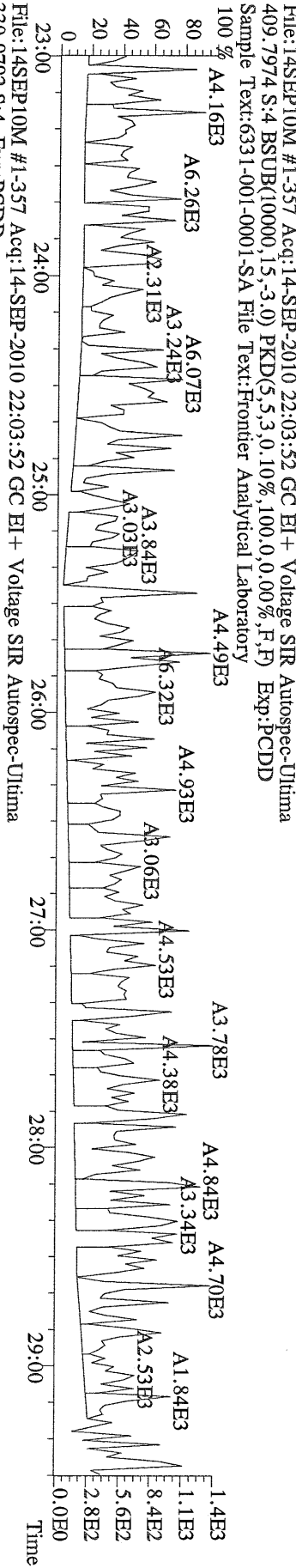
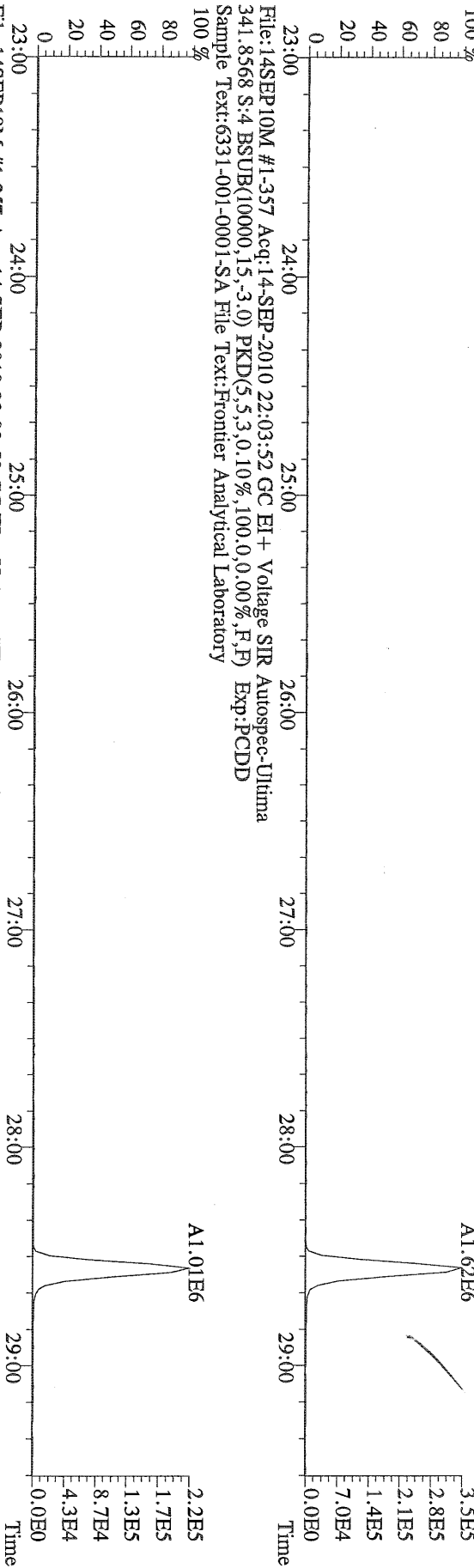
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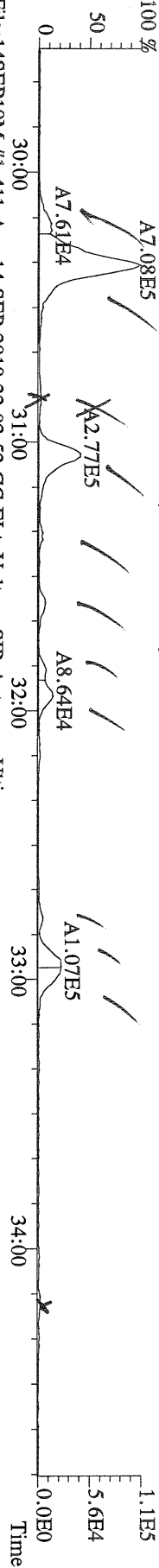
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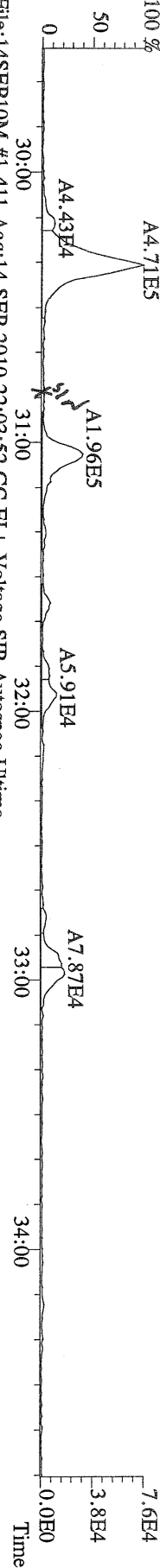
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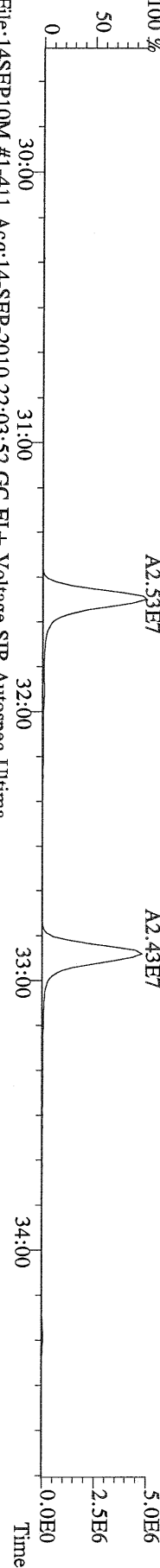
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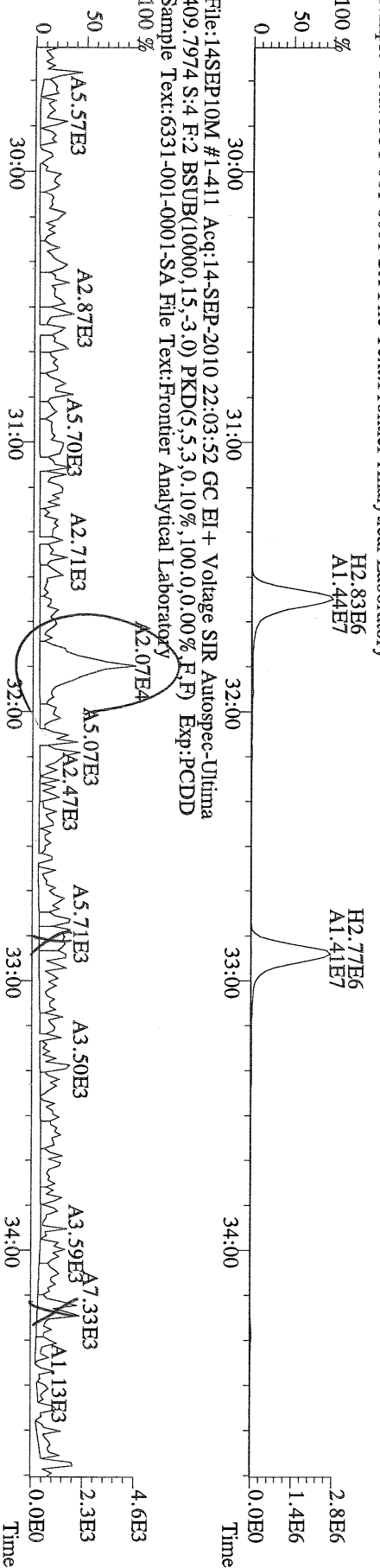
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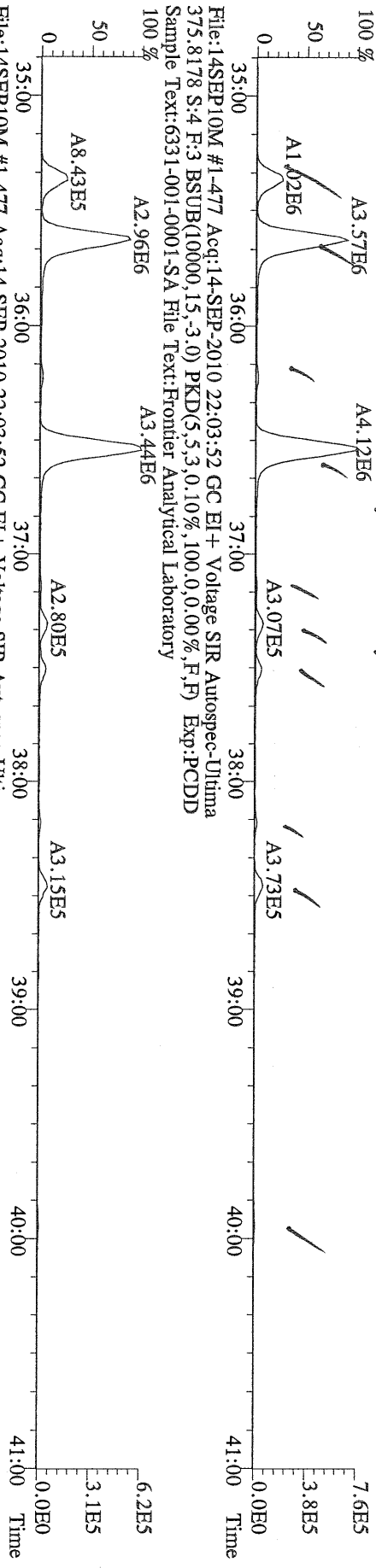
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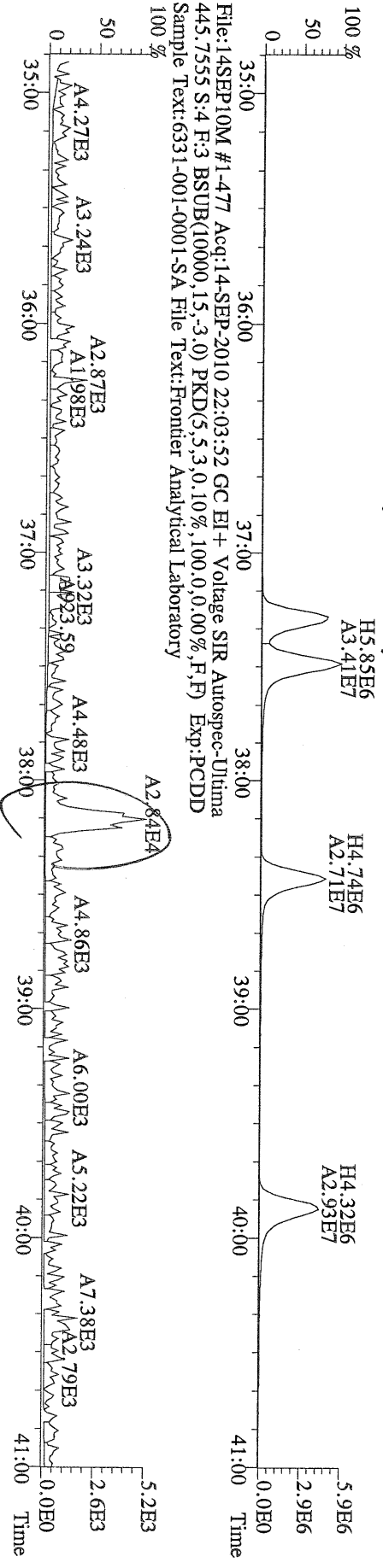
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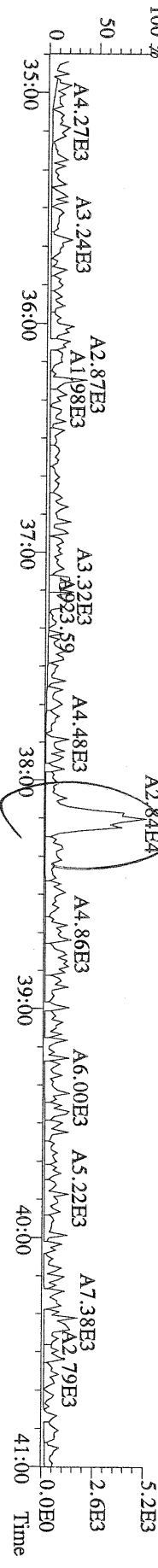
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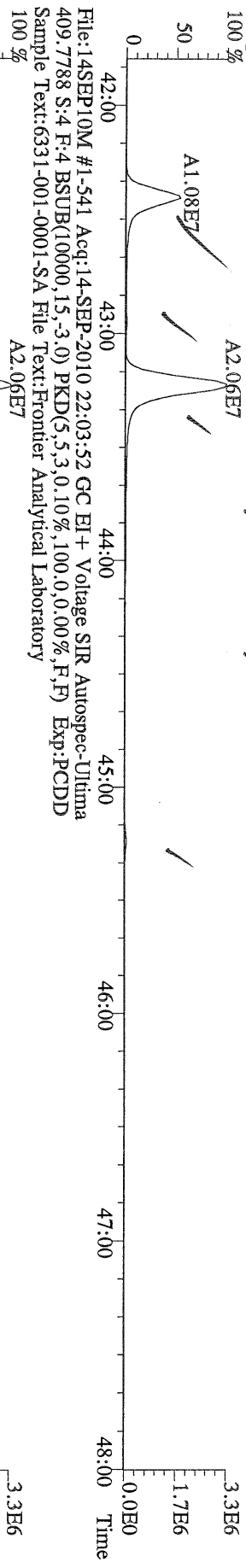


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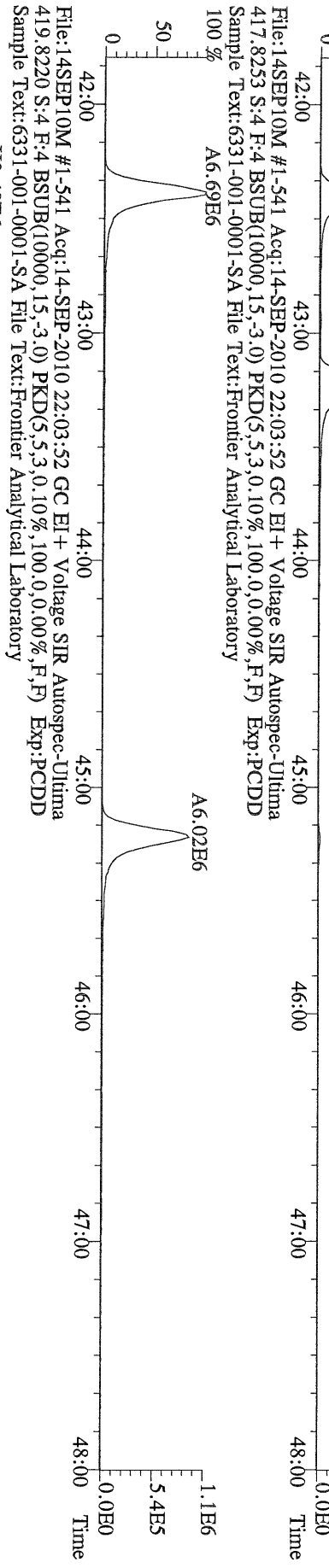




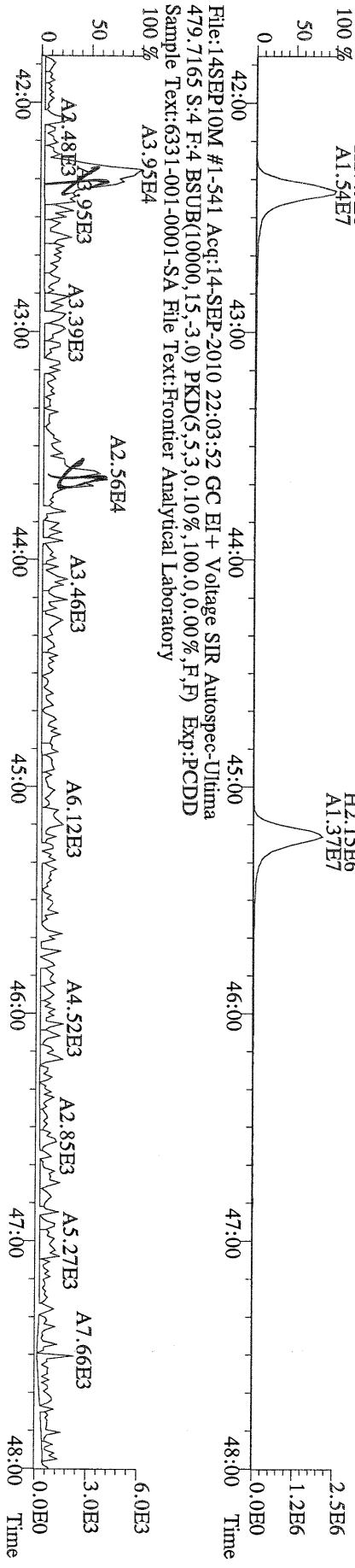
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407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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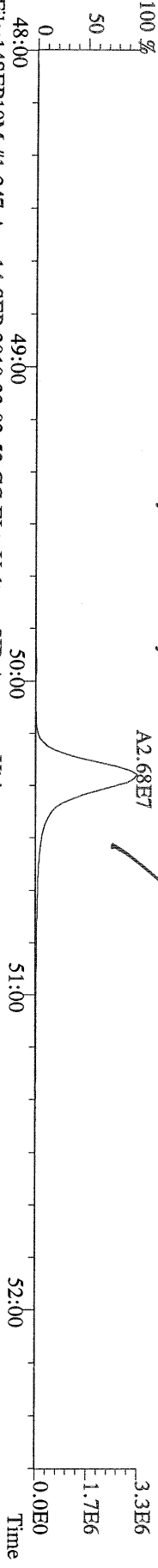
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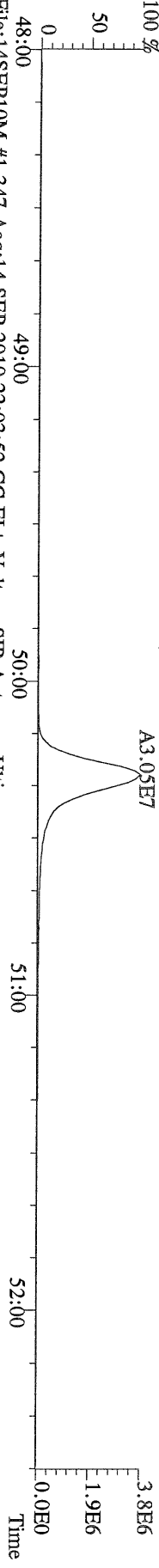
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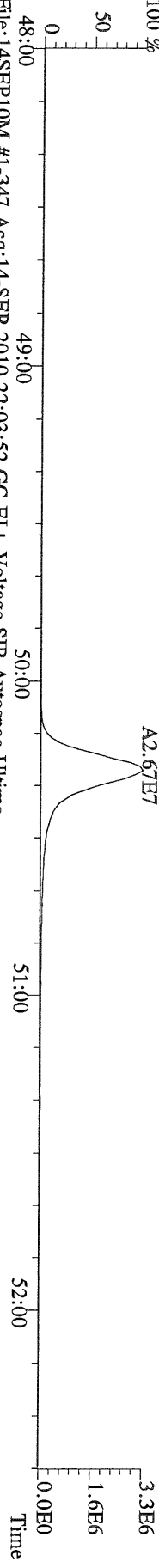
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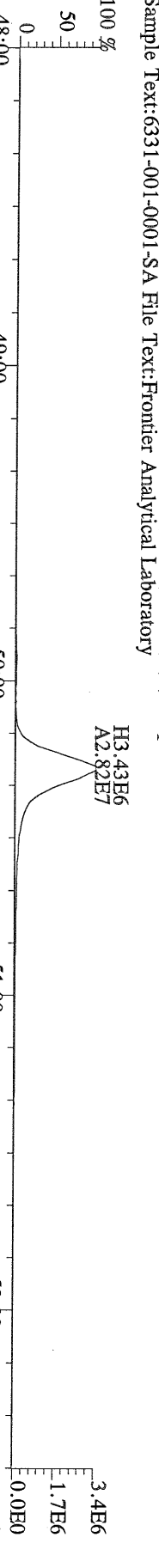
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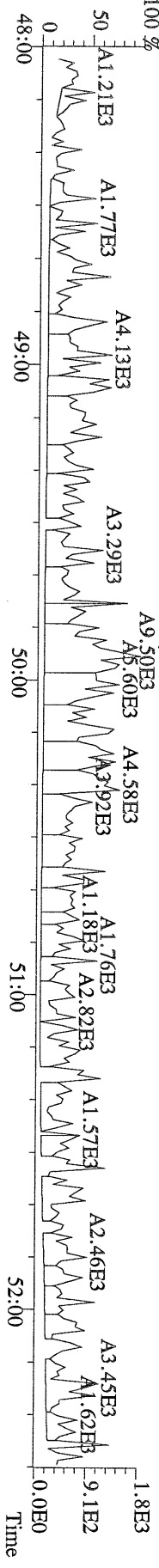
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453.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:14SEP10M #1-347 Acq:14-SEP-2010 22:03:52 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:14SEP10M #1-347 Acq:14-SEP-2010 22:03:52 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	528	549	0.182	
1,2,3,7,8-PeCDD	3.40e+04	1.72 y	33:21	1.10	0.467	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	5.01e+04	1.31 y	38:43	1.37	0.663	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.75e+05	1.38 y	38:52	1.37	2.59	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	9.08e+04	1.38 y	39:19	1.36	1.28	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	4.69e+06	0.92 y	44:19	1.45	72.2		2.50	-	-	*	
OCDD	2.43e+07	0.97 y	49:53	1.43	741		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	689	777	0.115	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	544	517	0.151	
2,3,4,7,8-PeCDF	3.68e+04	1.35 y	32:56	0.94	0.471	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	7.89e+04	1.29 y	37:19	0.93	0.965	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	5.72e+04	1.12 y	37:30	0.82	0.623	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	6.52e+04	1.10 y	38:27	0.92	0.887	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	582	579	0.213	
1,2,3,4,6,7,8-HpCDF	1.53e+06	1.02 y	42:24	1.39	23.5		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	5.75e+04	0.89 y	45:14	1.36	1.11	J	2.50	-	-	*	
OCDF	2.35e+06	0.90 y	50:16	0.79	69.9		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.38e+07	0.86 y	27:30	1.02	310					77.5	
13C-1,2,3,7,8-PeCDD	2.65e+07	1.77 y	33:18	0.84	420					105	
13C-1,2,3,4,7,8-HxCDD	2.20e+07	1.25 y	38:41	1.07	348					86.9	
13C-1,2,3,6,7,8-HxCDD	1.97e+07	1.24 y	38:51	1.01	330					82.5	
13C-1,2,3,4,6,7,8-HpCDD	1.79e+07	0.94 y	44:17	0.86	355					88.7	
13C-OCDD	1.83e+07	0.92 y	49:52	0.55	568					71.0	
13C-2,3,7,8-TCDF	3.74e+07	0.86 y	26:45	0.99	312					78.1	
13C-1,2,3,7,8-PeCDF	3.68e+07	1.74 y	31:35	0.84	364					91.0	
13C-2,3,4,7,8-PeCDF	3.34e+07	1.72 y	32:54	0.81	341					85.3	
13C-1,2,3,4,7,8-HxCDF	3.52e+07	0.47 y	37:17	1.85	323					80.7	
13C-1,2,3,6,7,8-HxCDF	4.48e+07	0.47 y	37:29	2.54	300					74.9	
13C-2,3,4,6,7,8-HxCDF	3.20e+07	0.46 y	38:26	2.01	270					67.4	
13C-1,2,3,7,8,9-HxCDF	3.55e+07	0.46 y	39:52	2.03	296					74.0	
13C-1,2,3,4,6,7,8-HpCDF	1.87e+07	0.43 y	42:22	1.11	287					71.7	
13C-1,2,3,4,7,8,9-HpCDF	1.53e+07	0.43 y	45:13	0.80	323					80.7	
13C-OCDF	3.42e+07	0.97 y	50:14	1.08	536					67.0	
37Cl-2,3,7,8-TCDD	6.72e+06		27:31	0.69	131					81.7	
13C-1,2,3,4-TCDD	3.00e+07	0.86 y	26:55	-	13.3						
13C-1,2,3,4-TCDF	4.82e+07	0.88 y	25:39	-	13.3						
13C-1,2,3,7,8,9-HxCDD	2.36e+07	1.24 y	39:17	-	17.1						
Total Tetra-Dioxins	3.93e+04		25:43	1.11	0.595	J	2.50	-	-	*	1
Total Penta-Dioxins	1.45e+05		30:21	1.10	1.98	J	2.50	-	-	*	4
Total Hexa-Dioxins	1.28e+06		36:14	1.37	18.1		2.50	-	-	*	6
Total Hepta-Dioxins	9.47e+06		42:56	1.45	146		2.50	-	-	*	2
Total Tetra-Furans	1.08e+05		23:55	1.50	0.767	J	2.50	-	-	*	2
1st Fn. Tot Penta-Furans	1.92e+05		28:33	0.94	2.33	J	2.50	-	-	*	PeCDF 1
Total Penta-Furans	1.93e+05		30:21	0.94	2.37	J	2.50	-	-	*	4.70 3
Total Hexa-Furans	1.48e+06		35:22	0.91	17.7		2.50	-	-	*	6
Total Hepta-Furans	3.87e+06		42:24	1.38	63.6		2.50	-	-	*	3

Analyst: 

Date: 9/15/10

Totals class: Total Tetra-Dioxins            Entry #: 38

Run: 12            File: 14SEP10M            S: 5 I: 1 F: 1  
Acquired: 14-SEP-10 22:59:10

Total Concentration: 0.595            Unnamed Concentration: 0.595

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
25:43	1.83e+04	2.10e+04 0.87 y	3.93e+04	0.595	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 12

File: 14SEP10M

S: 5 I: 1 F: 2

Acquired: 14-SEP-10 22:59:10

Total Concentration: 1.98

Unnamed Concentration: 1.517

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	2.57e+04	1.52e+04	1.69 y	4.09e+04	0.562	
30:57	1.93e+04	1.14e+04	1.69 y	3.07e+04	0.421	
31:49	2.47e+04	1.42e+04	1.74 y	3.90e+04	0.535	
33:21	2.15e+04	1.25e+04	1.72 y	3.40e+04	0.467	1,2,3,7,8-PeCDD

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 12

File: 14SEP10M

S: 5 I: 1 F: 3

Acquired: 14-SEP-10 22:59:10

Total Concentration: 18.1

Unnamed Concentration: 13.570

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	1.97e+05	1.45e+05	1.35 y	3.42e+05	4.80	
37:09	3.79e+04	3.22e+04	1.17 y	7.01e+04	0.982	
37:36	3.21e+05	2.35e+05	1.36 y	5.56e+05	7.79	
38:43	2.84e+04	2.17e+04	1.31 y	5.01e+04	0.663	1,2,3,4,7,8-HxCDD
38:52	1.01e+05	7.32e+04	1.38 y	1.75e+05	2.59	1,2,3,6,7,8-HxCDD
39:19	5.26e+04	3.82e+04	1.38 y	9.08e+04	1.28	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 12

File: 14SEP10M

S: 5 I: 1 F: 4

Acquired: 14-SEP-10 22:59:10

Total Concentration: 146

Unnamed Concentration: 73.448

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:56	2.25e+06	2.52e+06	0.89 y	4.77e+06	73.4	
44:19	2.24e+06	2.45e+06	0.92 y	4.69e+06	72.2	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 12

File: 14SEP10M

S: 5 I: 1 F: 1

Acquired: 14-SEP-10 22:59:10

Total Concentration: 0.767

Unnamed Concentration: 0.767

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:55	2.93e+04	4.35e+04	0.67 y	7.28e+04	0.518	
25:33	1.42e+04	2.08e+04	0.68 y	3.49e+04	0.249	



Totals class: 1st Fn. Tot Penta-Furans      Entry #: 43

Run: 12      File: 14SEP10M      S: 5 I: 1 F: 1  
Acquired: 14-SEP-10 22:59:10

Total Concentration: 2.33      Unnamed Concentration: 2.329

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:33	1.15e+05	7.74e+04	1.48 y	1.92e+05	2.33	

Totals class: Total Penta-Furans

Entry #: 44

Run: 12

File: 14SEP10M

S: 5 I: 1 F: 2

Acquired: 14-SEP-10 22:59:10

Total Concentration: 2.37

Unnamed Concentration: 1.898

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	6.85e+04	4.07e+04	1.68 y	1.09e+05	1.33	
31:02	2.72e+04	1.99e+04	1.37 y	4.72e+04	0.572	
32:56	2.12e+04	1.57e+04	1.35 y	3.68e+04	0.471	2,3,4,7,8-PeCDF

Totals class: Total Hexa-Furans

Entry #: 45

Run: 12

File: 14SEP10M

S: 5 I: 1 F: 3

Acquired: 14-SEP-10 22:59:10

Total Concentration: 17.7

Unnamed Concentration: 15.269

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:22	1.02e+05	8.90e+04	1.14 y	1.91e+05	2.27	
35:38	3.21e+05	2.61e+05	1.23 y	5.82e+05	6.93	
36:32	2.77e+05	2.32e+05	1.19 y	5.09e+05	6.06	
37:19	4.44e+04	3.45e+04	1.29 y	7.89e+04	0.965	1,2,3,4,7,8-HxCDF
37:30	3.03e+04	2.70e+04	1.12 y	5.72e+04	0.623	1,2,3,6,7,8-HxCDF
38:27	3.42e+04	3.10e+04	1.10 y	6.52e+04	0.887	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 12

File: 14SEP10M

S: 5 I: 1 F: 4

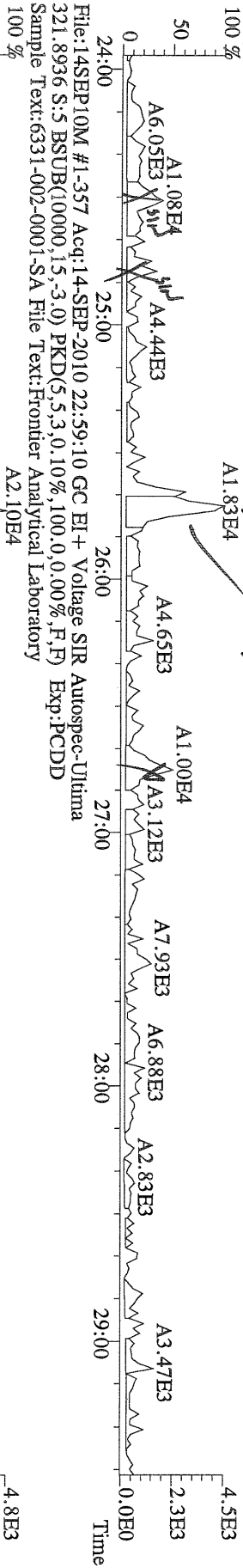
Acquired: 14-SEP-10 22:59:10

Total Concentration: 63.6

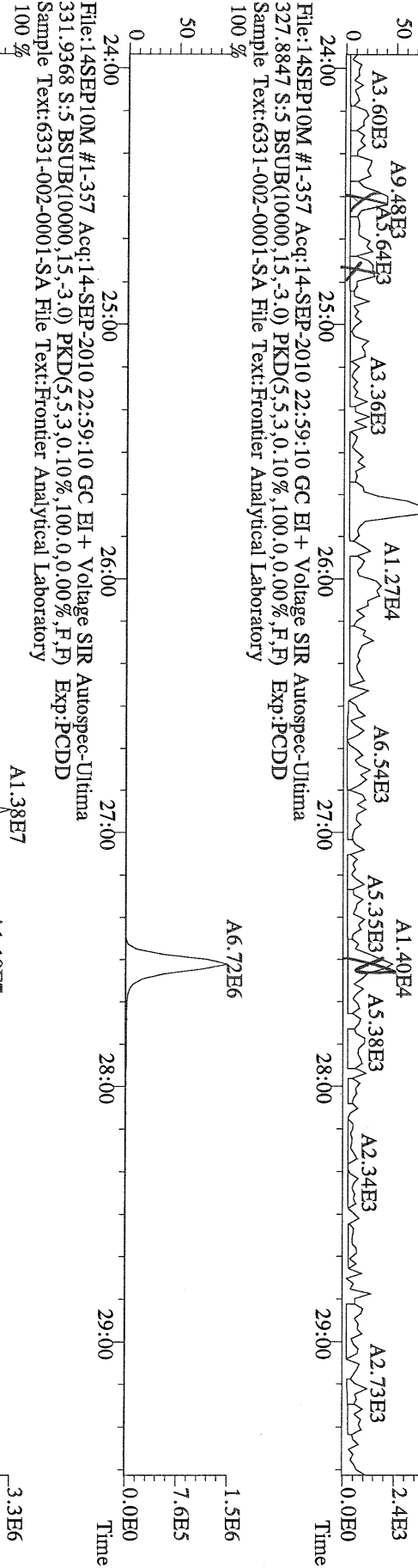
Unnamed Concentration: 39.010

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:24	7.73e+05	7.60e+05	1.02 y	1.53e+06	23.5	1,2,3,4,6,7,8-HpCDF
43:14	1.15e+06	1.13e+06	1.01 y	2.28e+06	39.0	
45:14	2.71e+04	3.04e+04	0.89 y	5.75e+04	1.11	1,2,3,4,7,8,9-HpCDF

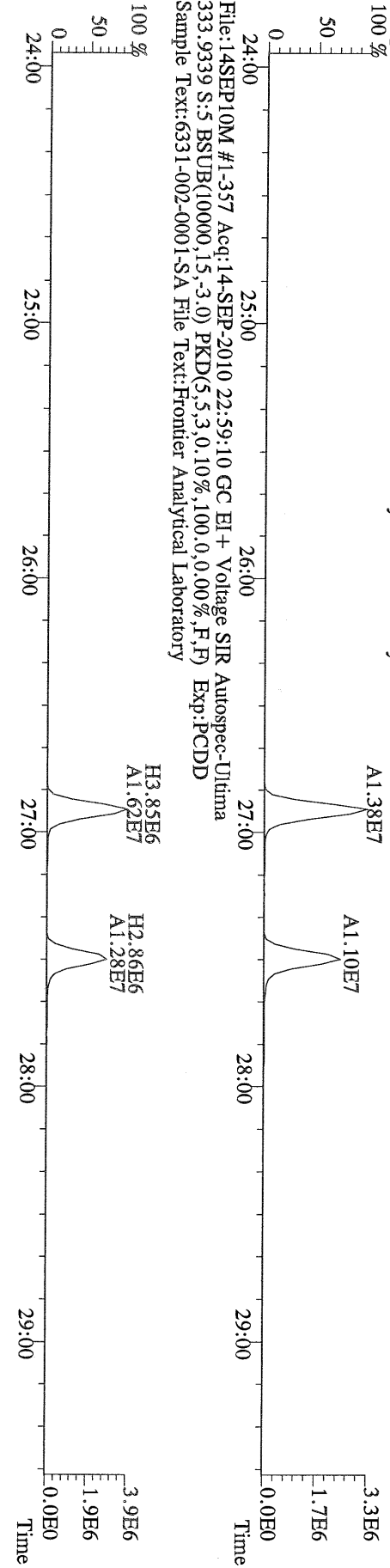
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319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



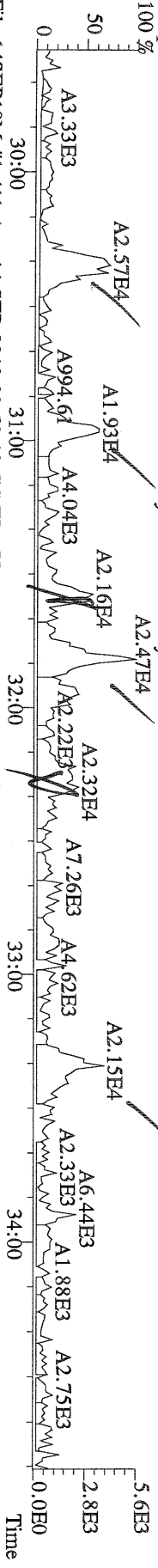
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327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



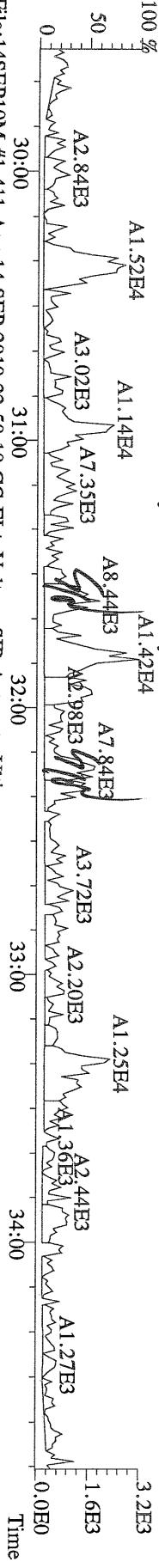
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333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



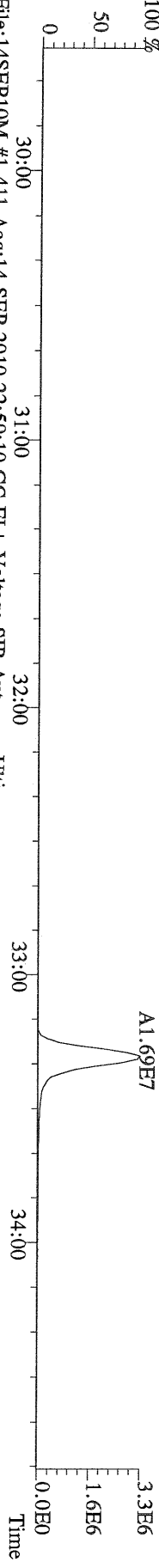
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 355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



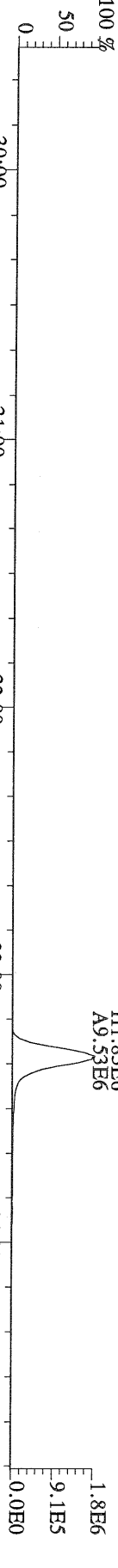
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 357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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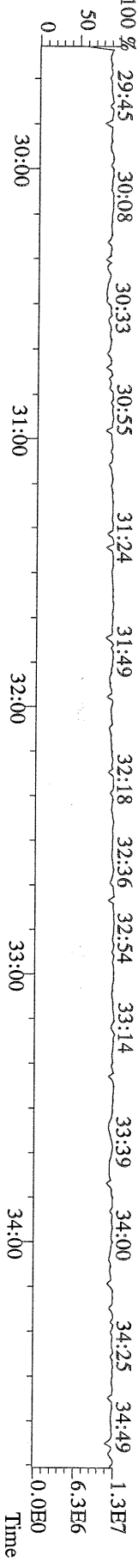
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 367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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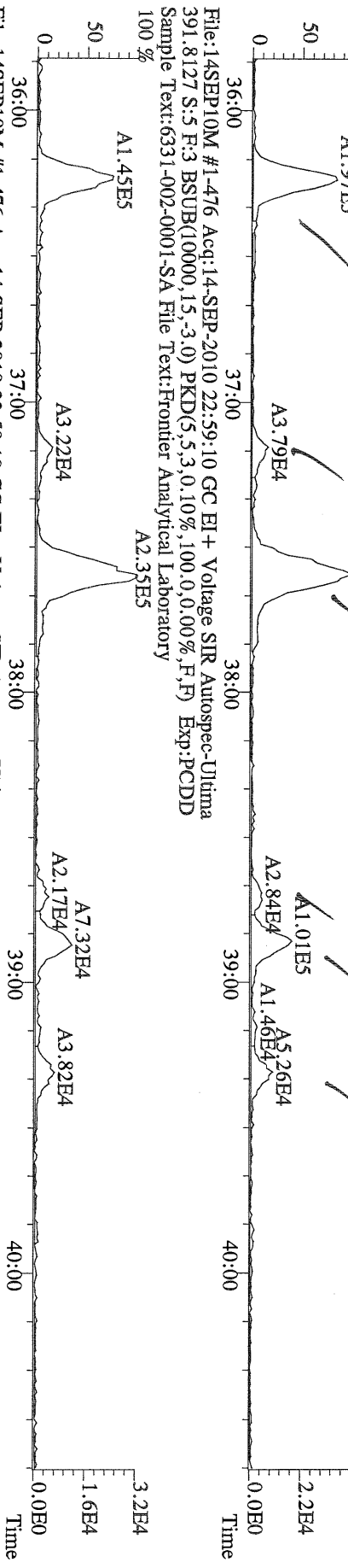
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 369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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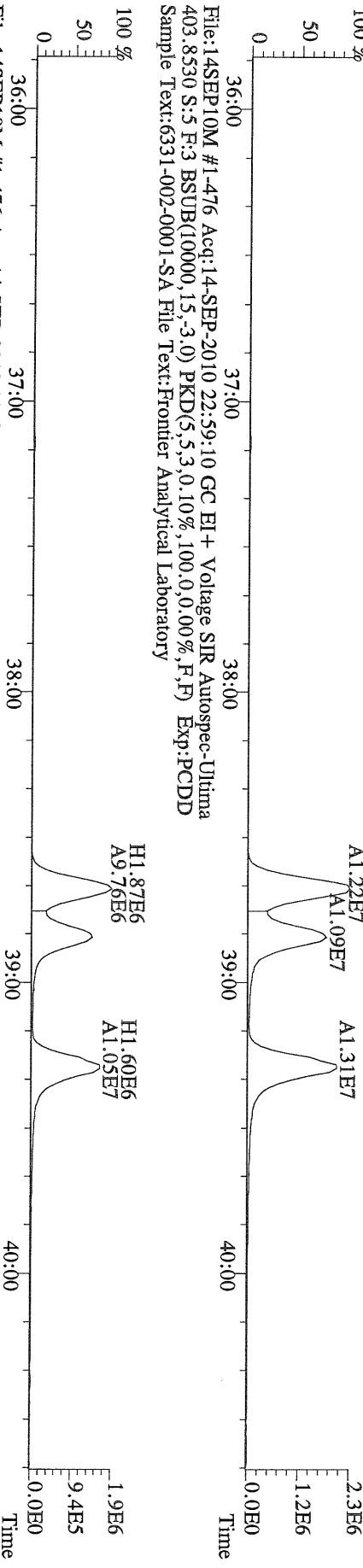
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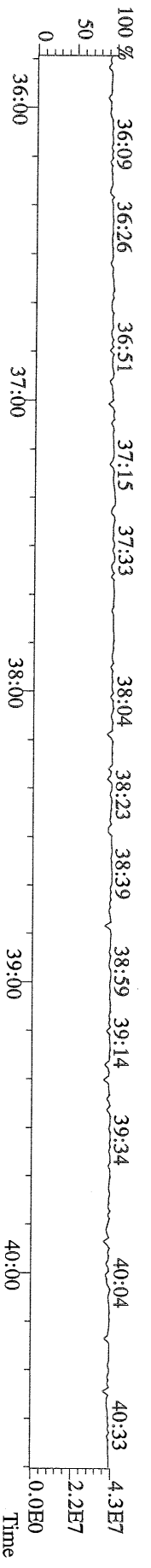
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 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



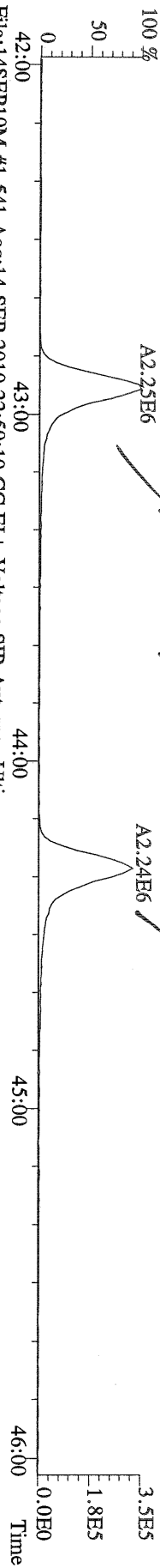
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 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



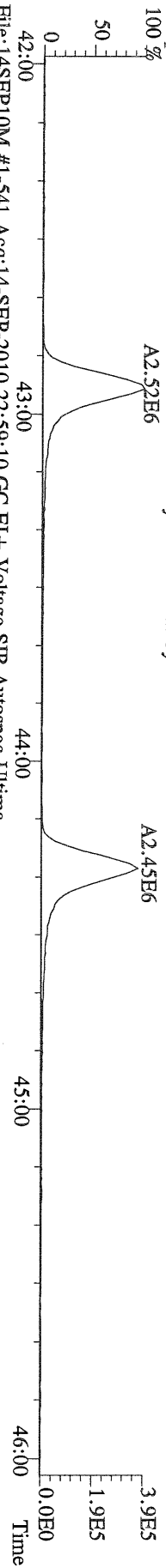
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 380.9760 S:5 F:3 Exp:PCDD  
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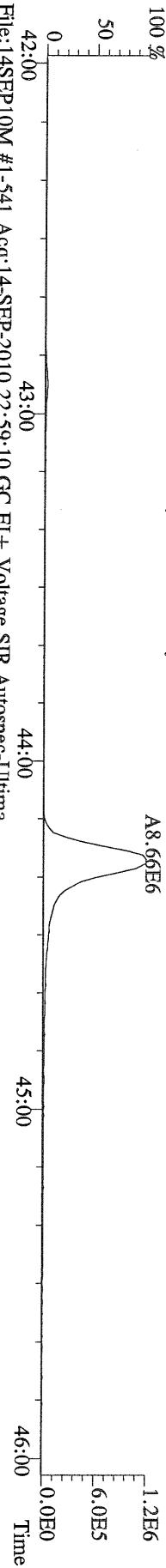
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423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



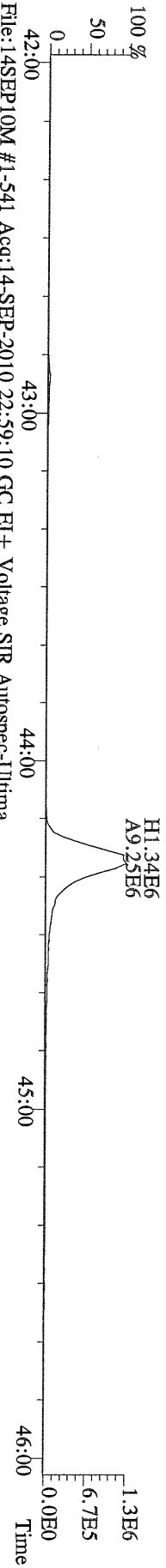
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425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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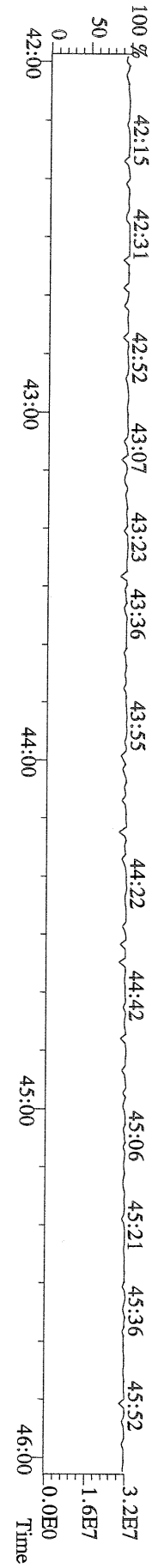
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435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-541 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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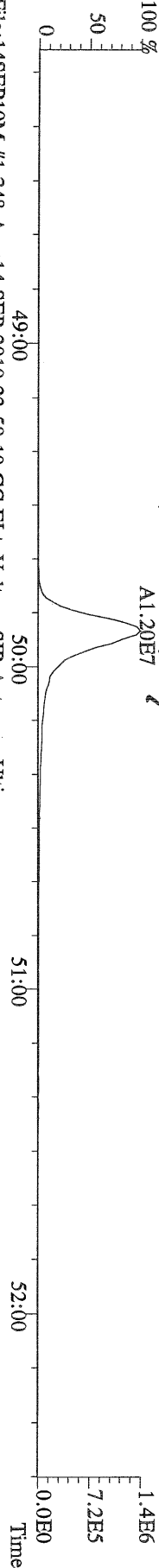


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430.9728 S:5 F:4 Exp:PCDD  
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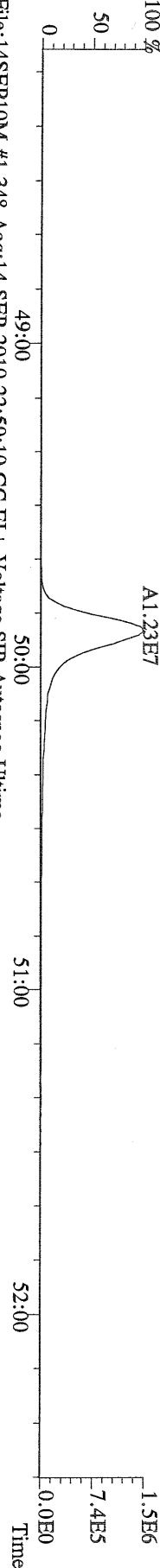




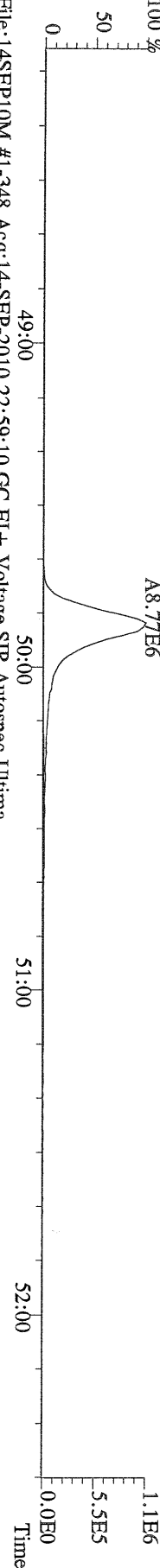
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457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



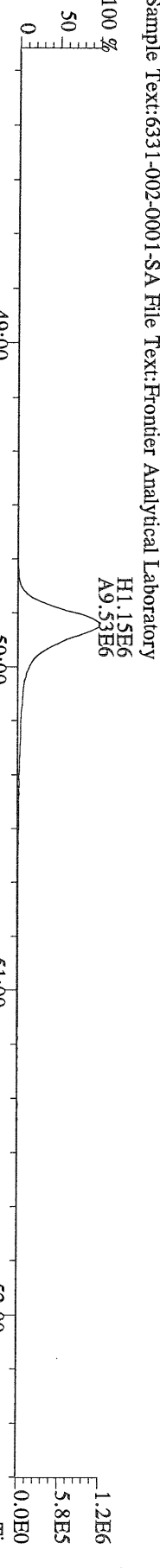
File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



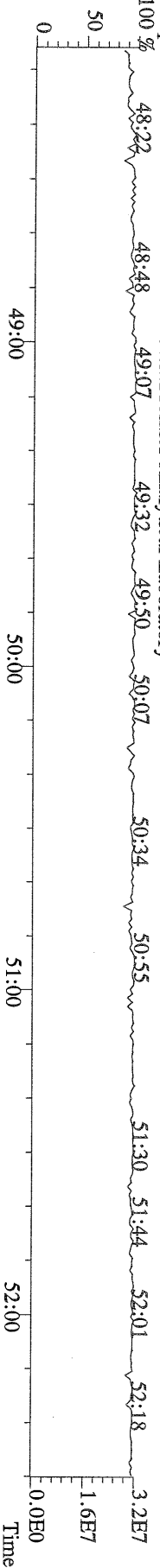
File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



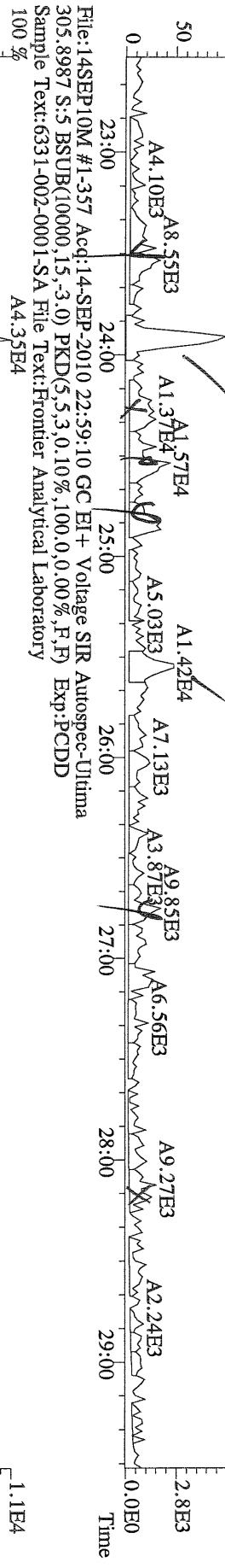
File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



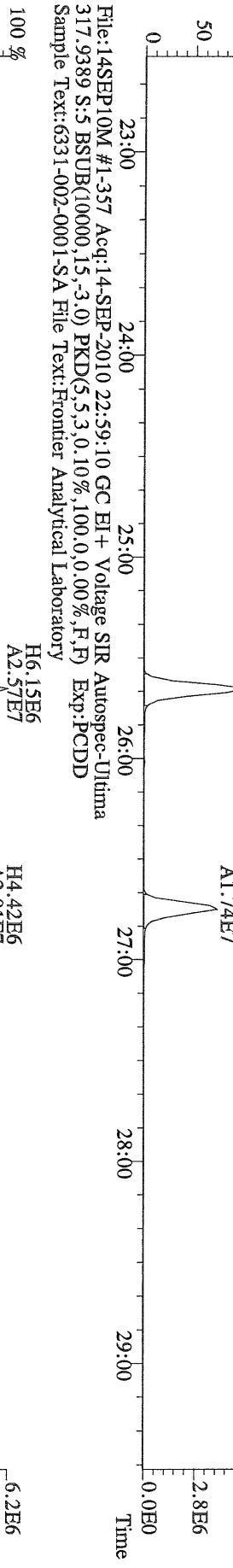
File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:5 F:5 Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



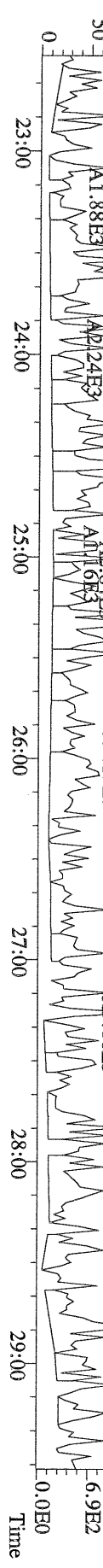
File:14SEP10M #1-357 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



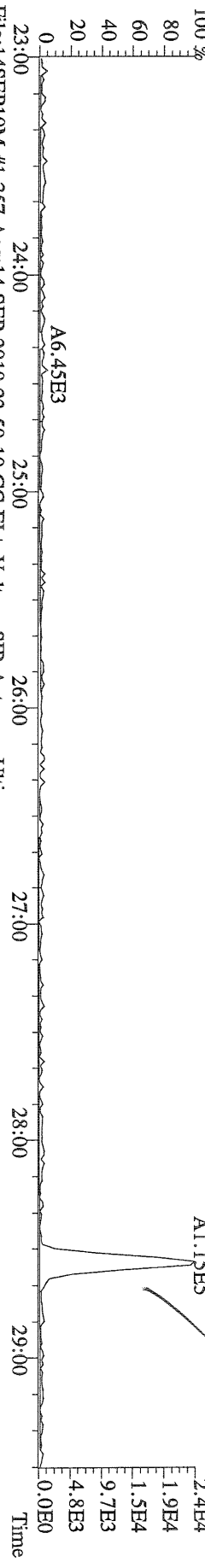
File:14SEP10M #1-357 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



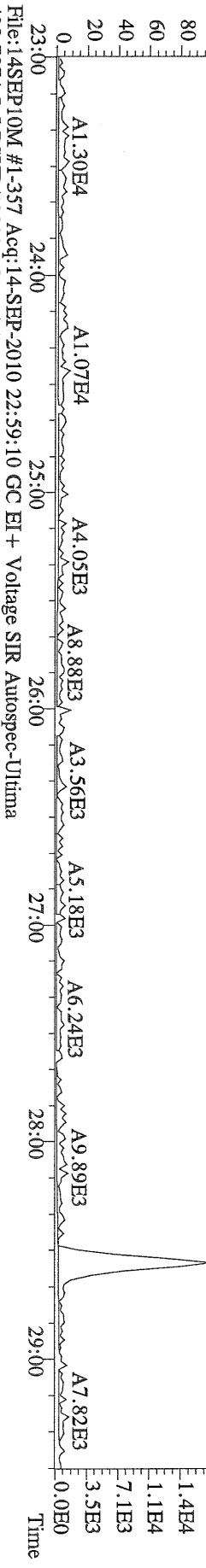
File:14SEP10M #1-357 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



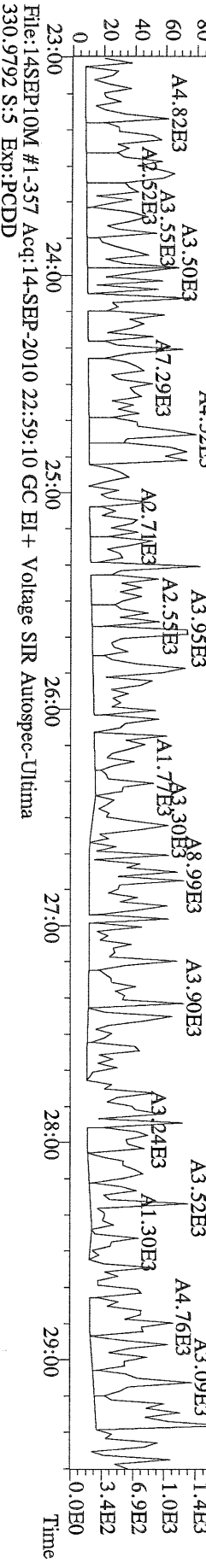
File:14SEP10M #1-357 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



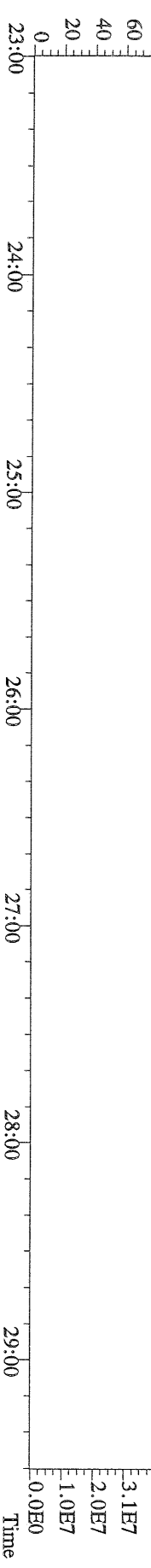
File:14SEP10M #1-357 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



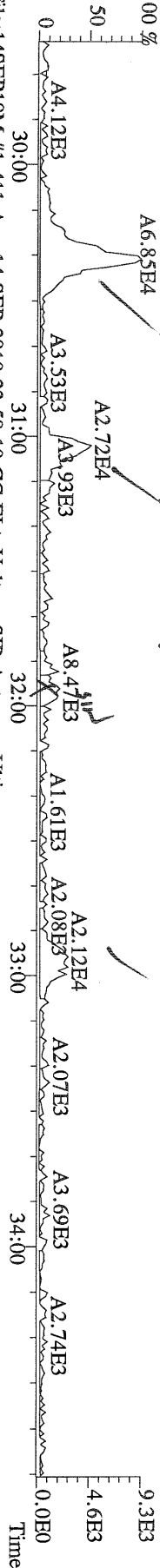
File:14SEP10M #1-357 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



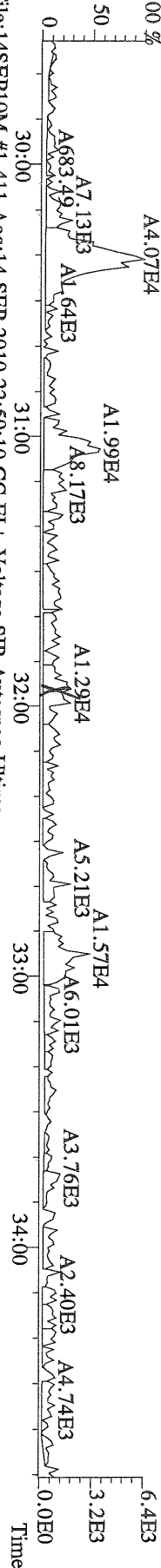
File:14SEP10M #1-357 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:5 Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



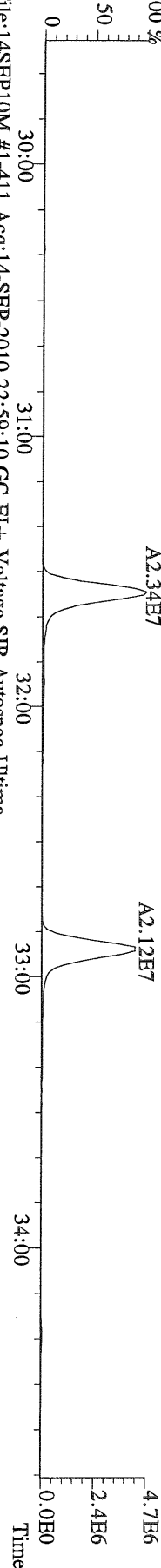
File:14SEP10M #1-411 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



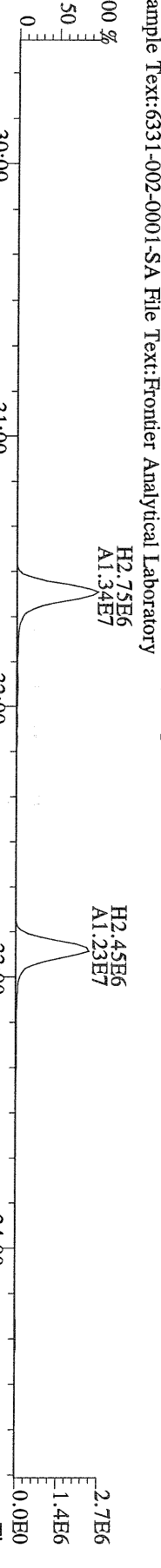
File:14SEP10M #1-411 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



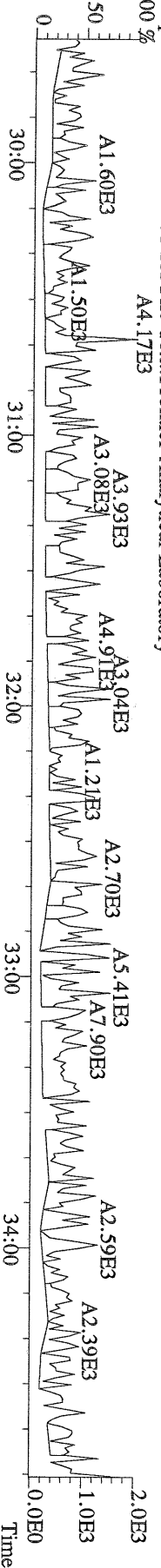
File:14SEP10M #1-411 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



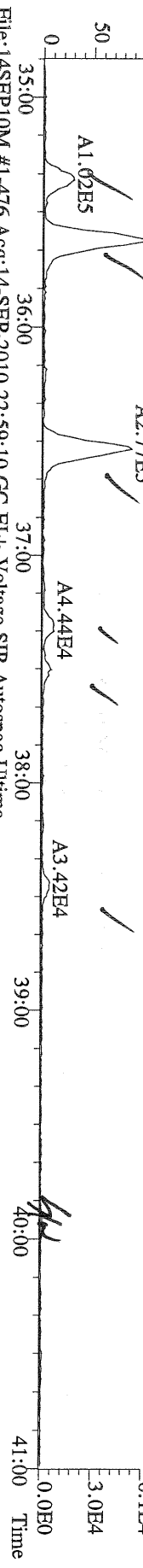
File:14SEP10M #1-411 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



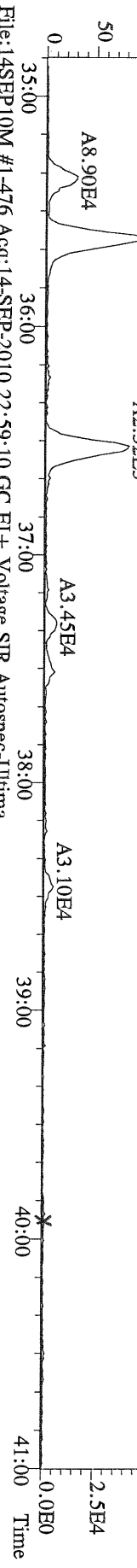
File:14SEP10M #1-411 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



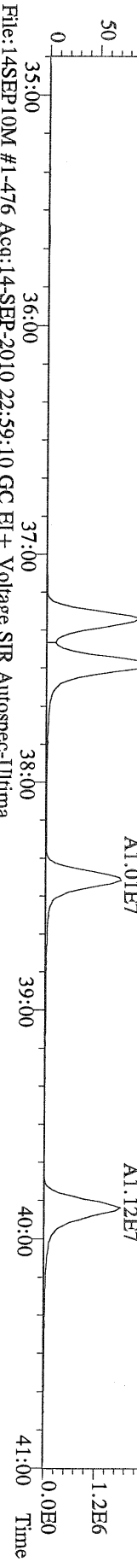
File:14SEP10M #1-476 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



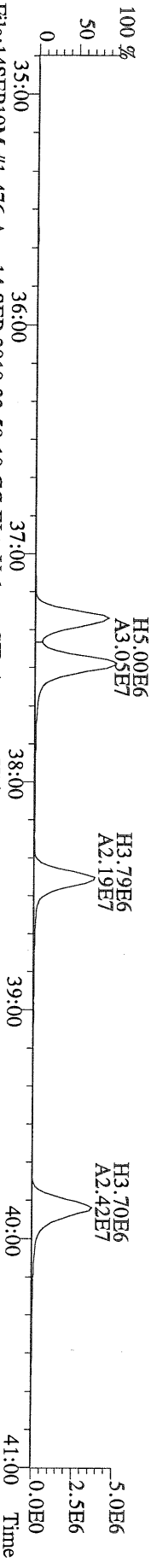
File:14SEP10M #1-476 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



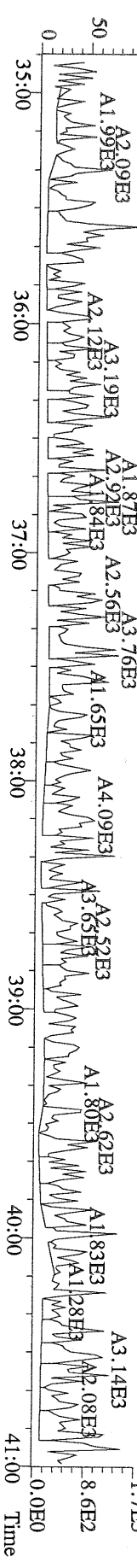
File:14SEP10M #1-476 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



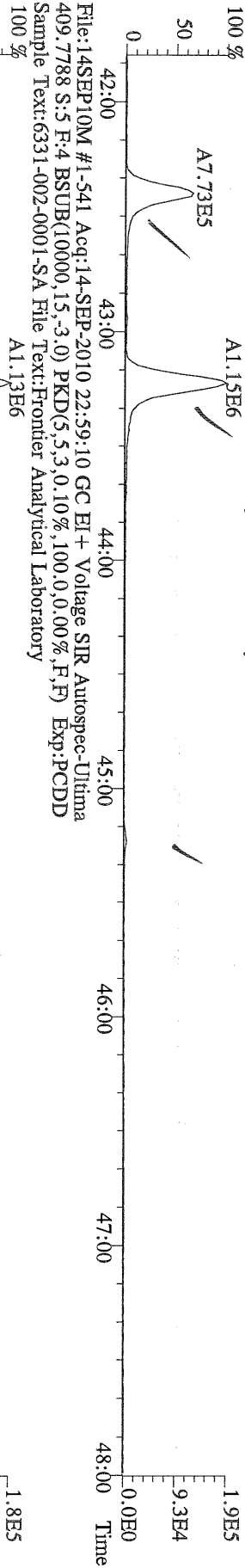
File:14SEP10M #1-476 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



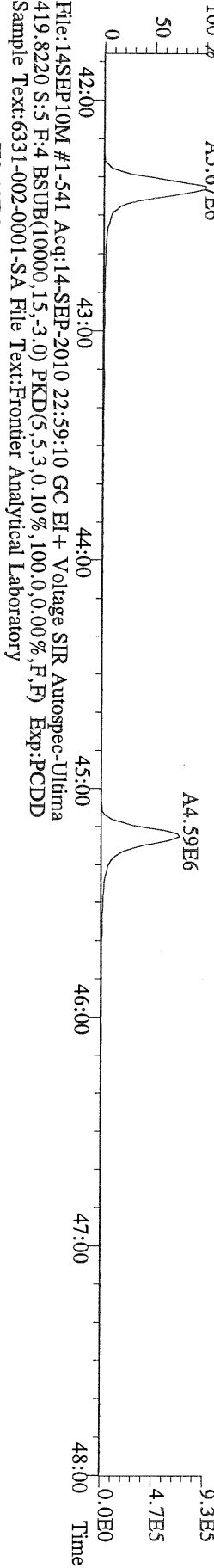
File:14SEP10M #1-476 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



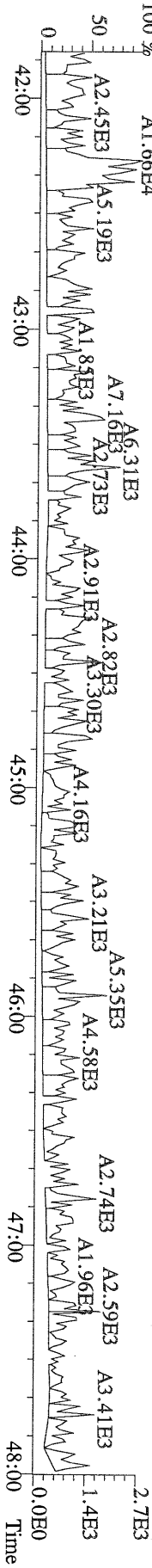
File:14SEP10M #1-541 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-541 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



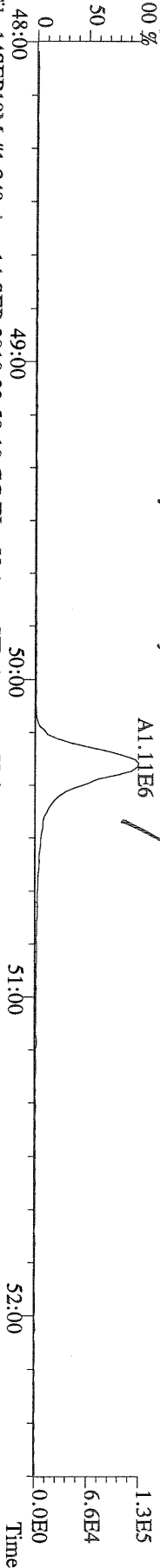
File:14SEP10M #1-541 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



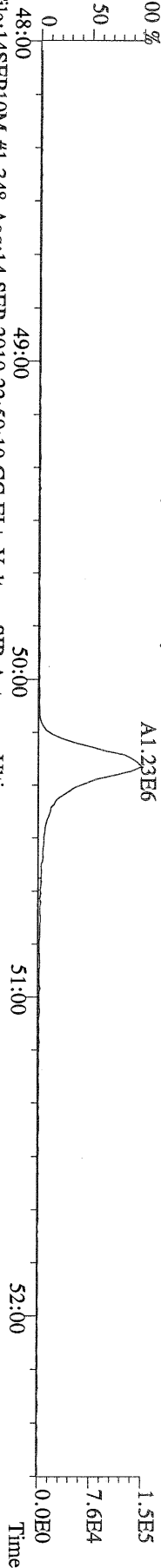
File:14SEP10M #1-541 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



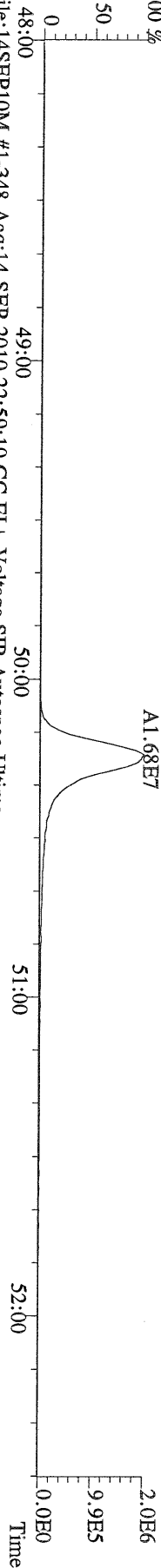
File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



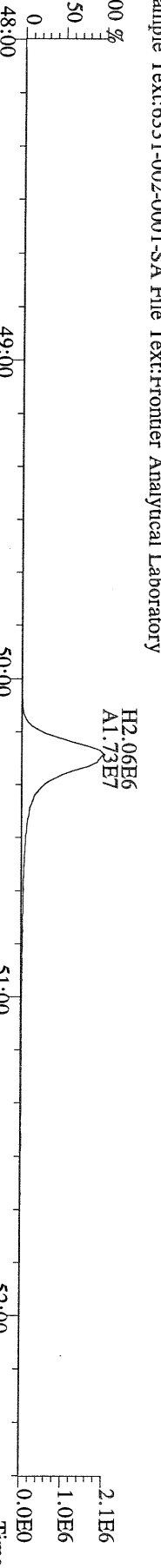
File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



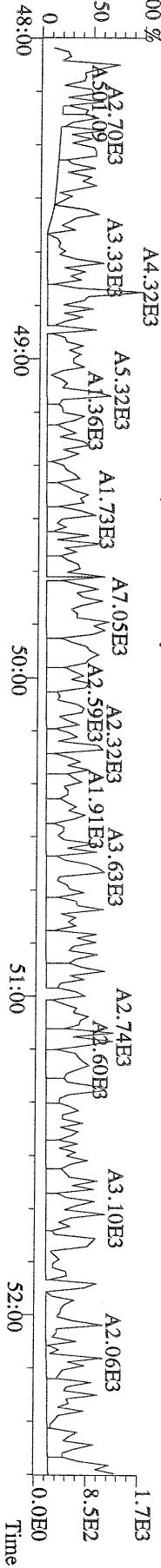
File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-348 Acq:14-SEP-2010 22:59:10 GC EI+ Voltage SIR Autospec-Ultima  
 513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-002-0001-SA File Text:Frontier Analytical Laboratory



NATO 1989 Tox: 6.00  
 WHO 1998 Tox: 4.75      WHO 2005 Tox: 5.05 ✓  
 Conc      Qual      Fac Noise-1      Noise-2      DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	505	930	0.262	
1,2,3,7,8-PeCDD	5.42e+04	1.49 y	33:19	1.10	0.820	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	8.76e+04	1.30 y	38:43	1.37	1.29	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	3.41e+05	1.41 y	38:52	1.37	5.72		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.93e+05	1.32 y	39:18	1.36	3.06	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.04e+07	0.95 y	44:19	1.45	165		2.50	-	-	*	
OCDD	6.67e+07	0.96 y	49:56	1.43	1700		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	836	1420	0.200	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	684	976	0.283	
2,3,4,7,8-PeCDF	2.51e+04	1.42 y	32:55	0.94	0.345	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	9.87e+04	1.25 y	37:18	0.93	1.38	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	9.54e+04	1.34 y	37:31	0.82	1.18	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.15e+05	1.27 y	38:27	0.92	1.69	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	675	801	0.342	
1,2,3,4,6,7,8-HpCDF	2.82e+06	1.03 y	42:24	1.39	47.7		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	8.27e+04	1.03 y	45:14	1.36	1.72	J	2.50	-	-	*	
OCDF	5.32e+06	0.88 y	50:19	0.79	143		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.18e+07	0.85 y	27:28	1.02	319					81.8	
13C-1,2,3,7,8-PeCDD	2.34e+07	1.76 y	33:18	0.84	416					107	
13C-1,2,3,4,7,8-HxCDD	1.92e+07	1.24 y	38:41	1.07	328					84.2	
13C-1,2,3,6,7,8-HxCDD	1.69e+07	1.25 y	38:51	1.01	306					78.6	
13C-1,2,3,4,6,7,8-HpCDD	1.70e+07	0.92 y	44:18	0.86	364					93.3	
13C-OCDD	2.13e+07	0.96 y	49:55	0.55	716					91.8	
13C-2,3,7,8-TCDF	3.35e+07	0.88 y	26:44	0.99	315					80.7	
13C-1,2,3,7,8-PeCDF	3.16e+07	1.75 y	31:34	0.84	353					90.5	
13C-2,3,4,7,8-PeCDF	3.04e+07	1.74 y	32:53	0.81	350					89.8	
13C-1,2,3,4,7,8-HxCDF	3.01e+07	0.47 y	37:17	1.85	297					76.3	
13C-1,2,3,6,7,8-HxCDF	3.83e+07	0.47 y	37:29	2.54	277					71.0	
13C-2,3,4,6,7,8-HxCDF	2.87e+07	0.47 y	38:26	2.01	261					67.1	
13C-1,2,3,7,8,9-HxCDF	3.23e+07	0.46 y	39:52	2.03	291					74.6	
13C-1,2,3,4,6,7,8-HpCDF	1.66e+07	0.45 y	42:24	1.11	274					70.3	
13C-1,2,3,4,7,8,9-HpCDF	1.38e+07	0.45 y	45:13	0.80	315					80.8	
13C-OCDF	3.70e+07	0.99 y	50:17	1.08	626					80.2	
37Cl-2,3,7,8-TCDD	6.84e+06		27:30	0.69	149					95.7	
13C-1,2,3,4-TCDD	2.61e+07	0.86 y	26:53	-	11.3						
13C-1,2,3,4-TCDF	4.17e+07	0.88 y	25:38	-	11.2						
13C-1,2,3,7,8,9-HxCDD	2.13e+07	1.25 y	39:18	-	15.0						
Total Tetra-Dioxins	8.76e+04		24:28	1.11	1.41		2.50	-	-	*	3
Total Penta-Dioxins	3.36e+05		30:20	1.10	5.08		2.50	-	-	*	7
Total Hexa-Dioxins	2.46e+06		36:14	1.37	39.1		2.50	-	-	*	7
Total Hepta-Dioxins	2.06e+07		42:55	1.45	326		2.50	-	-	*	2
Total Tetra-Furans	3.69e+05		23:31	1.50	2.86		2.50	-	-	*	5
1st Fn. Tot Penta-Furans	4.57e+05		28:32	0.94	6.12		2.50	-	-	*	PeCDF 1
Total Penta-Furans	3.96e+05		30:19	0.94	5.31		2.50	-	-	*	11.4 ✓ 5
Total Hexa-Furans	2.81e+06		35:21	0.91	37.3		2.50	-	-	*	6
Total Hepta-Furans	7.50e+06		42:24	1.38	135		2.50	-	-	*	3

Analyst: 

Date: 9/15/10



Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 1

Acquired: 14-SEP-10 23:54:29

Total Concentration: 1.41

Unnamed Concentration: 1.408

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:28	1.17e+04	1.64e+04	0.71 y	2.81e+04	0.452	
25:39	1.58e+04	1.90e+04	0.83 y	3.48e+04	0.559	
26:54	1.12e+04	1.35e+04	0.83 y	2.47e+04	0.397	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 2

Acquired: 14-SEP-10 23:54:29

Total Concentration: 5.08

Unnamed Concentration: 4.262

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:20	4.80e+04	3.20e+04	1.50 y	8.00e+04	1.21	
30:57	1.73e+04	1.17e+04	1.48 y	2.90e+04	0.438	
31:34	2.24e+04	1.36e+04	1.64 y	3.60e+04	0.545	
31:47	3.41e+04	2.56e+04	1.33 y	5.98e+04	0.904	
31:56	1.89e+04	1.21e+04	1.56 y	3.10e+04	0.468	
32:14	2.67e+04	1.94e+04	1.38 y	4.61e+04	0.697	
33:19	3.24e+04	2.18e+04	1.49 y	5.42e+04	0.820	1,2,3,7,8-PeCDD

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 3

Acquired: 14-SEP-10 23:54:29

Total Concentration: 39.1

Unnamed Concentration: 28.987

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	3.63e+05	2.70e+05	1.34 y	6.34e+05	9.97	
37:10	7.86e+04	5.66e+04	1.39 y	1.35e+05	2.13	
37:36	6.07e+05	4.29e+05	1.42 y	1.04e+06	16.3	
38:43	4.96e+04	3.80e+04	1.30 y	8.76e+04	1.29	1,2,3,4,7,8-HxCDD
38:52	2.00e+05	1.41e+05	1.41 y	3.41e+05	5.72	1,2,3,6,7,8-HxCDD
39:11	2.03e+04	1.69e+04	1.20 y	3.72e+04	0.586	
39:18	1.10e+05	8.33e+04	1.32 y	1.93e+05	3.06	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 4

Acquired: 14-SEP-10 23:54:29

Total Concentration: 326

Unnamed Concentration: 161.367

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:55	4.85e+06	5.37e+06	0.90 y	1.02e+07	161	
44:19	5.07e+06	5.35e+06	0.95 y	1.04e+07	165	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 1

Acquired: 14-SEP-10 23:54:29

Total Concentration: 2.86

Unnamed Concentration: 2.860

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:31	1.80e+04	2.37e+04	0.76 y	4.18e+04	0.324	
23:53	6.04e+04	9.20e+04	0.66 y	1.52e+05	1.18	
24:31	1.64e+04	2.46e+04	0.67 y	4.11e+04	0.318	
24:50	2.65e+04	3.41e+04	0.78 y	6.07e+04	0.470	
25:31	3.09e+04	4.19e+04	0.74 y	7.29e+04	0.565	

Totals class: 1st Fn. Tot Penta-Furans      Entry #: 43

Run: 13      File: 14SEP10M      S: 6 I: 1 F: 1  
Acquired: 14-SEP-10 23:54:29

Total Concentration: 6.12      Unnamed Concentration: 6.124

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:32	2.78e+05	1.80e+05	1.54 y	4.57e+05	6.12	

Totals class: Total Penta-Furans

Entry #: 44

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 2

Acquired: 14-SEP-10 23:54:29

Total Concentration: 5.31

Unnamed Concentration: 4.967

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:19	1.34e+05	8.99e+04	1.49 y	2.24e+05	2.99	
31:02	5.28e+04	3.35e+04	1.57 y	8.63e+04	1.16	
31:57	1.74e+04	1.08e+04	1.62 y	2.81e+04	0.377	
32:55	1.48e+04	1.04e+04	1.42 y	2.51e+04	0.345	2,3,4,7,8-PeCDF
32:58	1.91e+04	1.39e+04	1.38 y	3.29e+04	0.441	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 3

Acquired: 14-SEP-10 23:54:29

Total Concentration: 37.3

Unnamed Concentration: 33.061

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:21	1.64e+05	1.39e+05	1.18 y	3.02e+05	4.00	
35:37	6.32e+05	5.33e+05	1.19 y	1.16e+06	15.4	
36:32	5.54e+05	4.76e+05	1.16 y	1.03e+06	13.6	
37:18	5.48e+04	4.39e+04	1.25 y	9.87e+04	1.38	1,2,3,4,7,8-HxCDF
37:31	5.47e+04	4.07e+04	1.34 y	9.54e+04	1.18	1,2,3,6,7,8-HxCDF
38:27	6.41e+04	5.05e+04	1.27 y	1.15e+05	1.69	2,3,4,6,7,8-HxCDF



Totals class: Total Hepta-Furans

Entry #: 46

Run: 13

File: 14SEP10M

S: 6 I: 1 F: 4

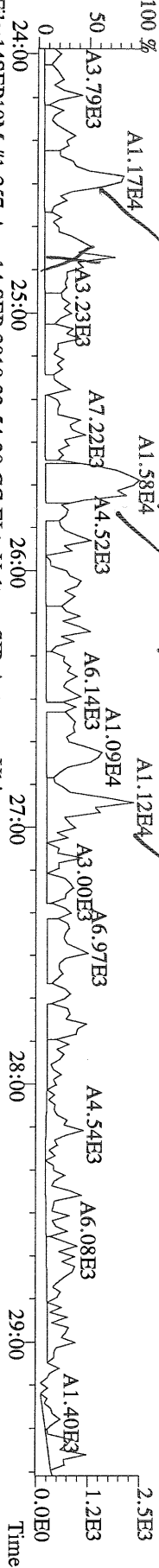
Acquired: 14-SEP-10 23:54:29

Total Concentration: 135

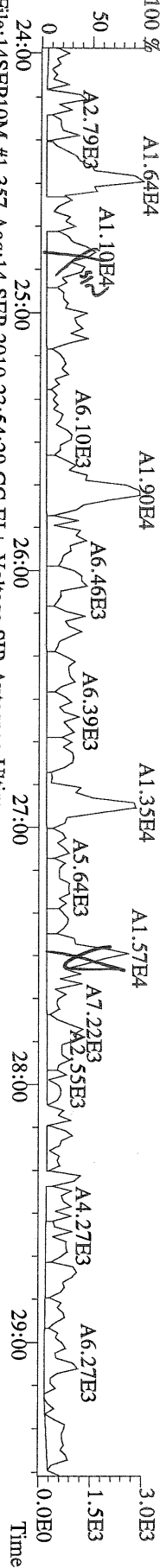
Unnamed Concentration: 85.502

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:24	1.43e+06	1.39e+06	1.03 y	2.82e+06	47.7	1,2,3,4,6,7,8-HpCDF
43:14	2.31e+06	2.28e+06	1.01 y	4.59e+06	85.5	
45:14	4.20e+04	4.07e+04	1.03 y	8.27e+04	1.72	1,2,3,4,7,8,9-HpCDF

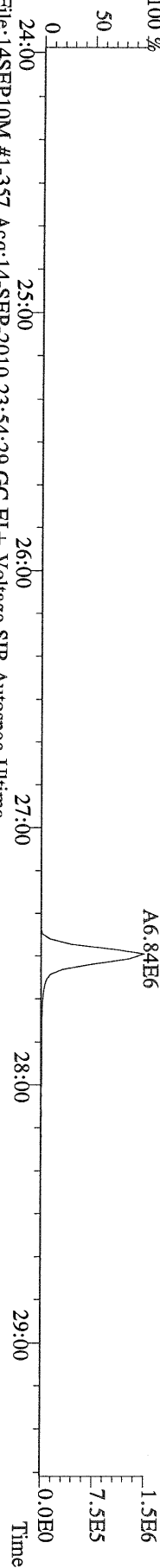
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 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



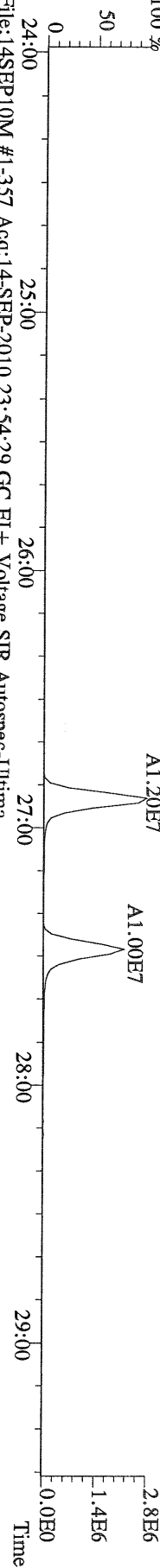
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 321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



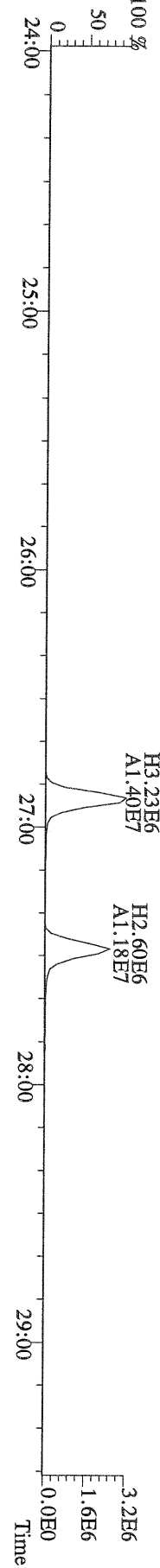
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 327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
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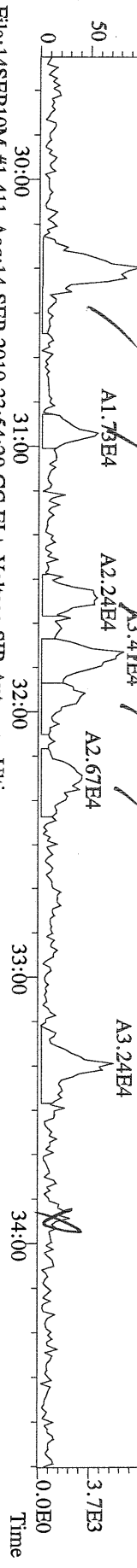
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 331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



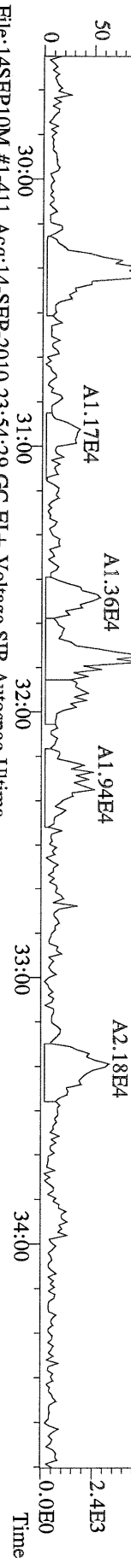
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 333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
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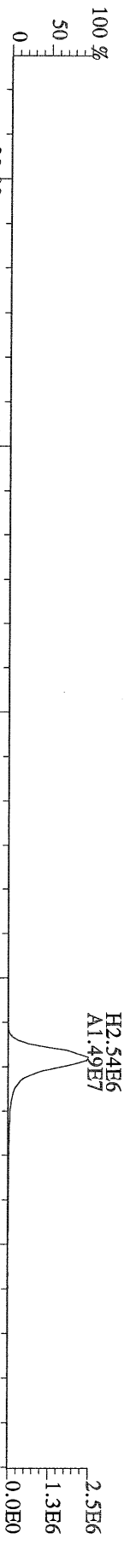
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 355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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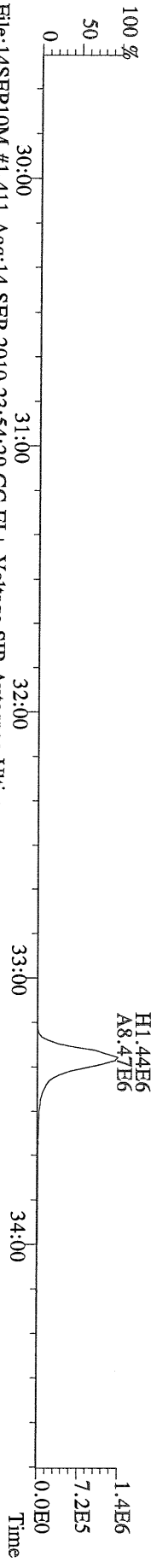
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 357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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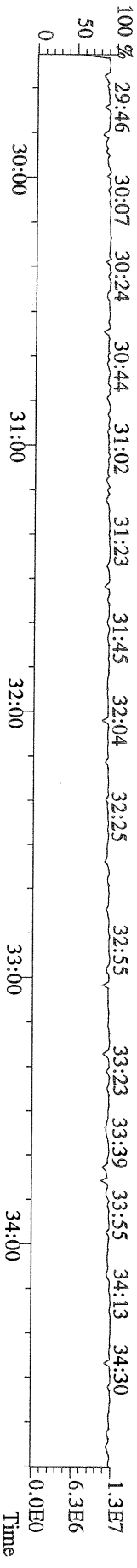
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 367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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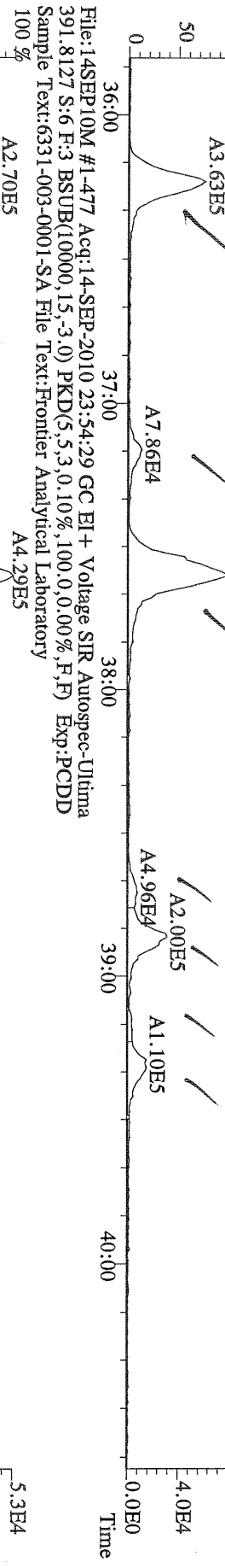
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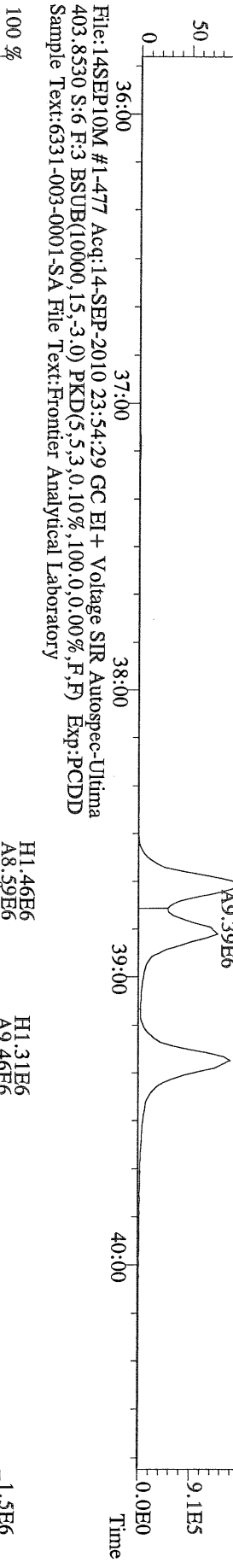
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 366.9792 S:6 F:2 Exp:PCDD  
 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



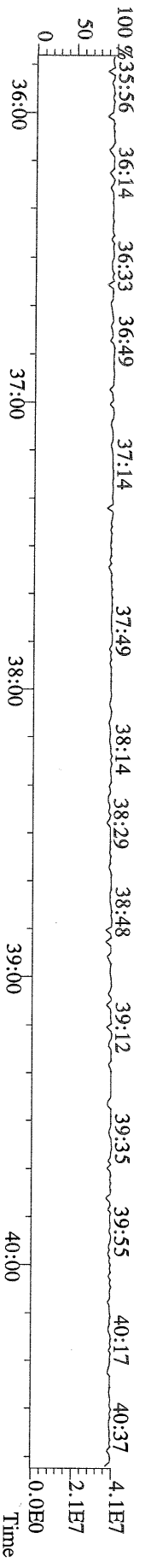
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389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



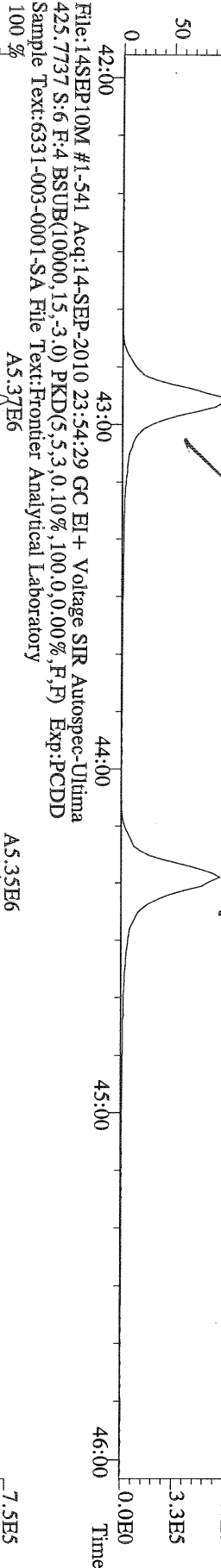
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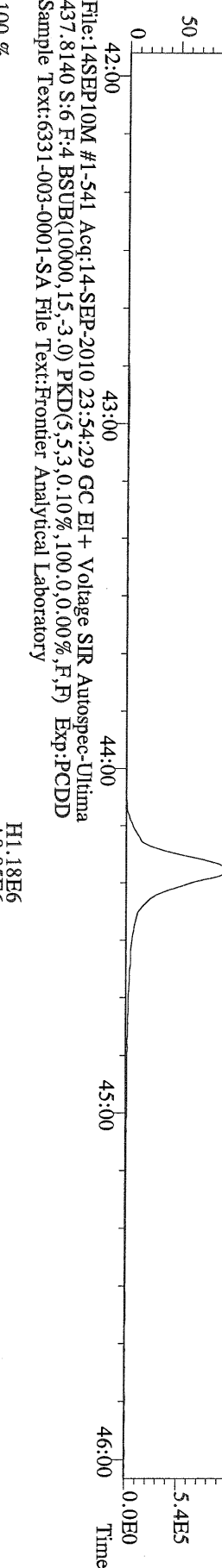
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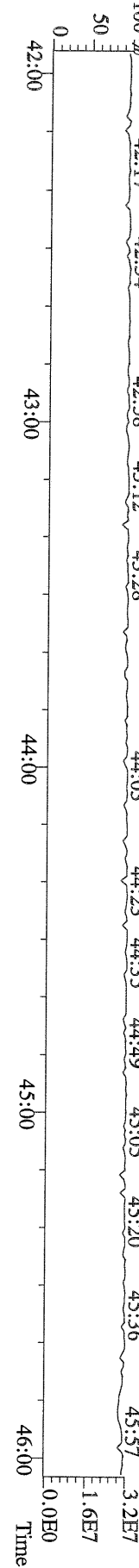
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423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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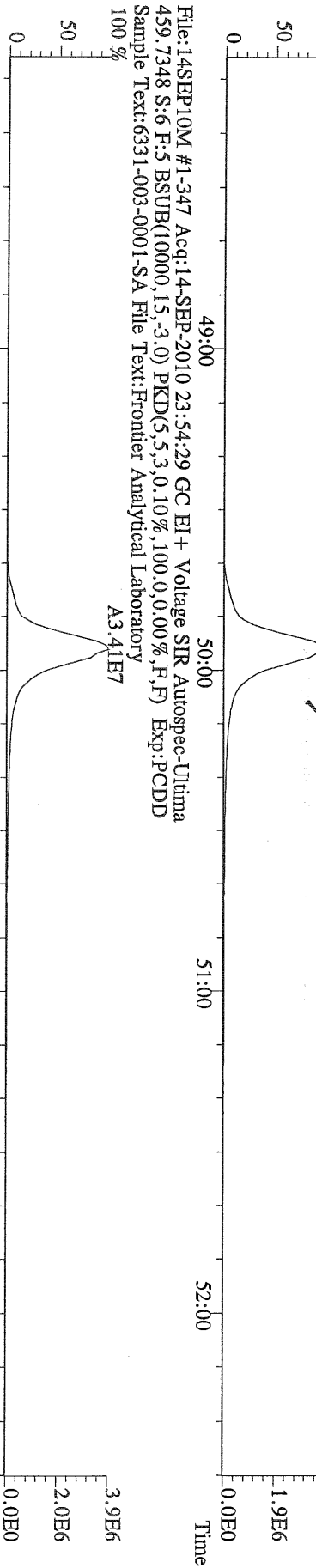
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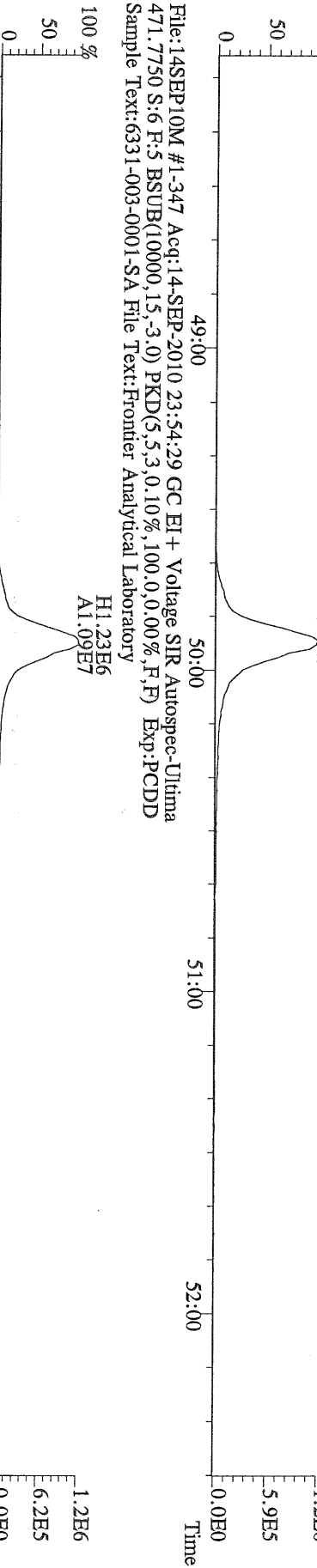
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430.9728 S:6 F:4 Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



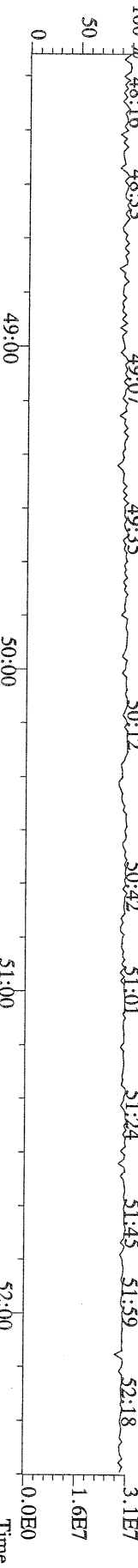
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457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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File:14SEP10M #1-347 Acq:14-SEP-2010 23:54:29 GC EI+ Voltage SIR Autospec-Utima  
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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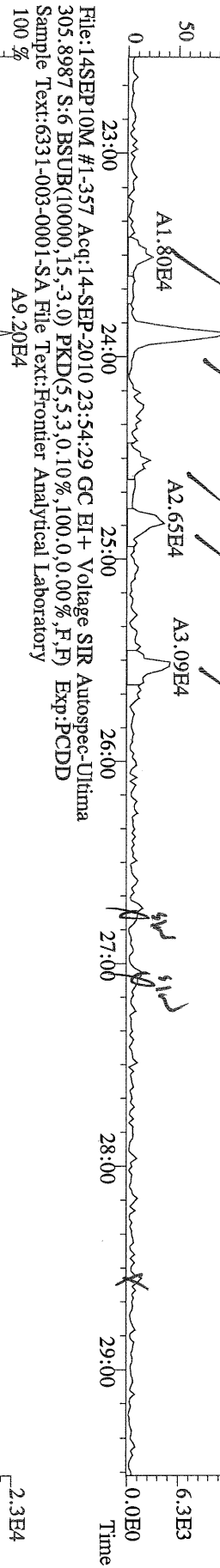
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471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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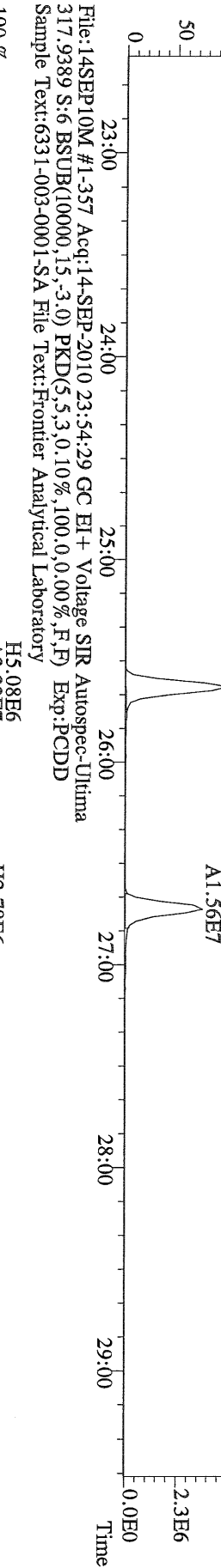
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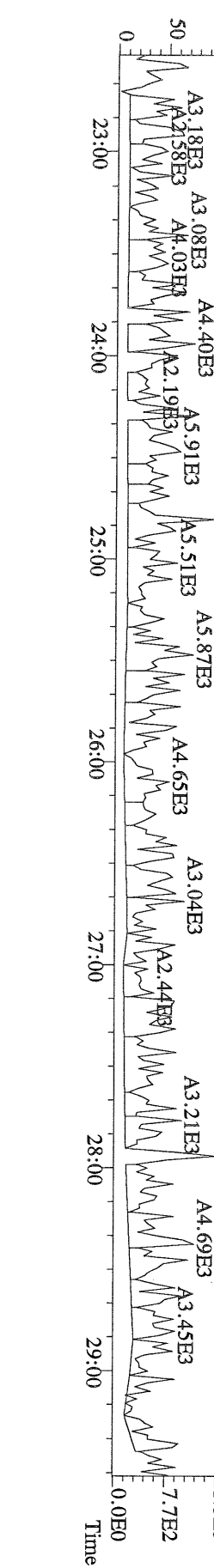
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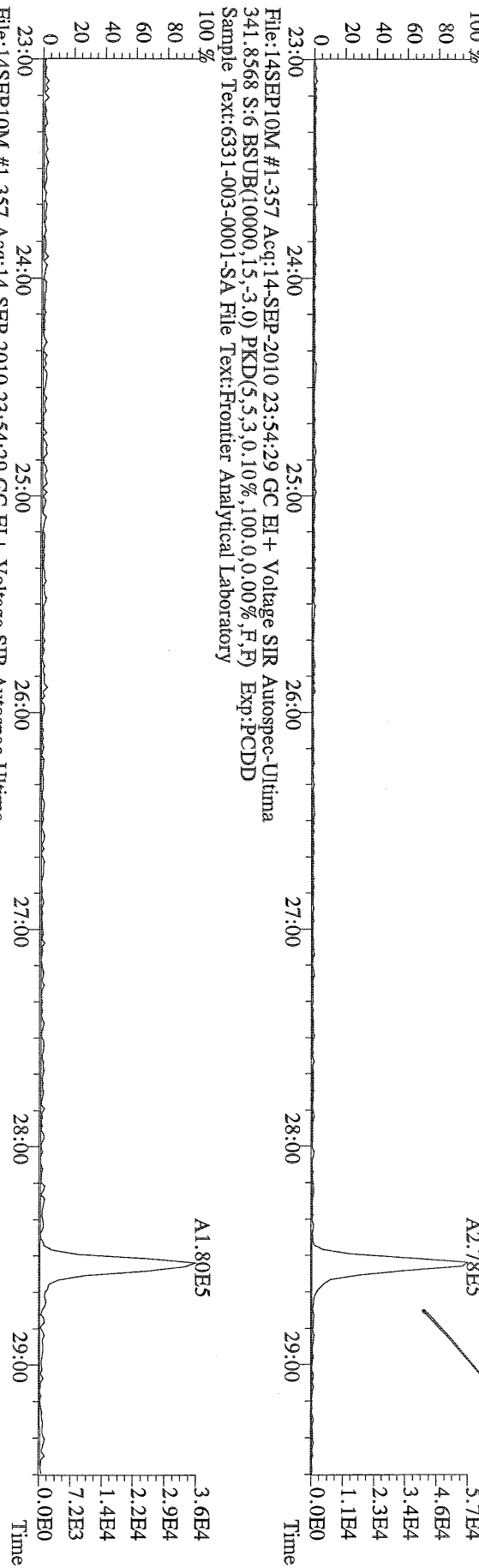
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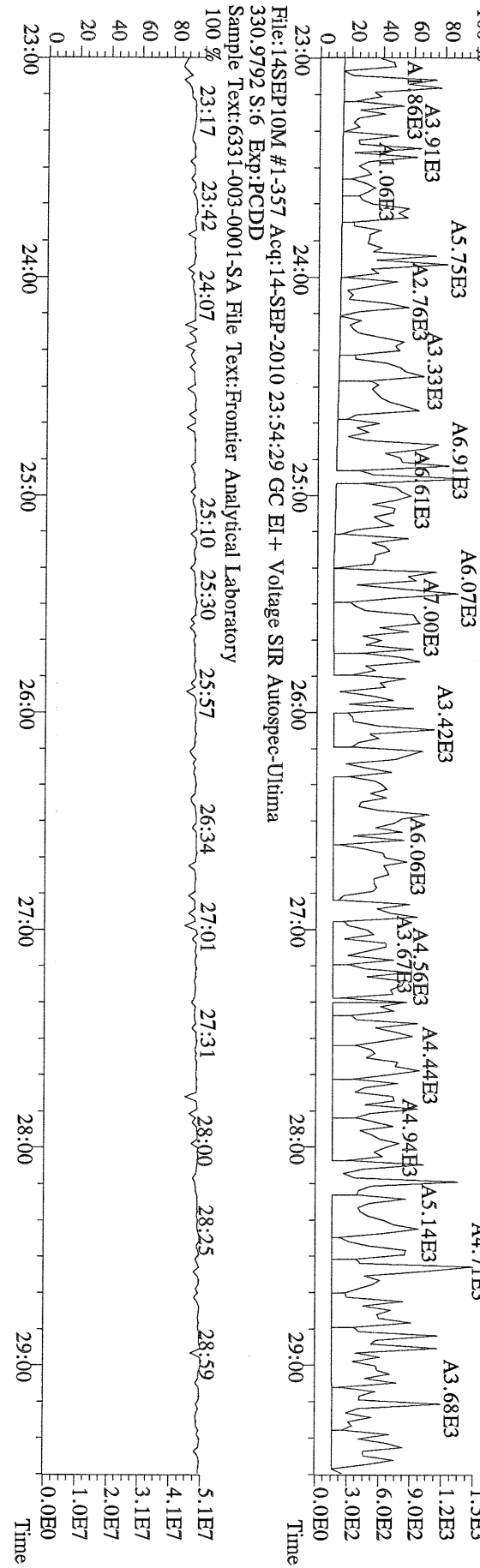
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 375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



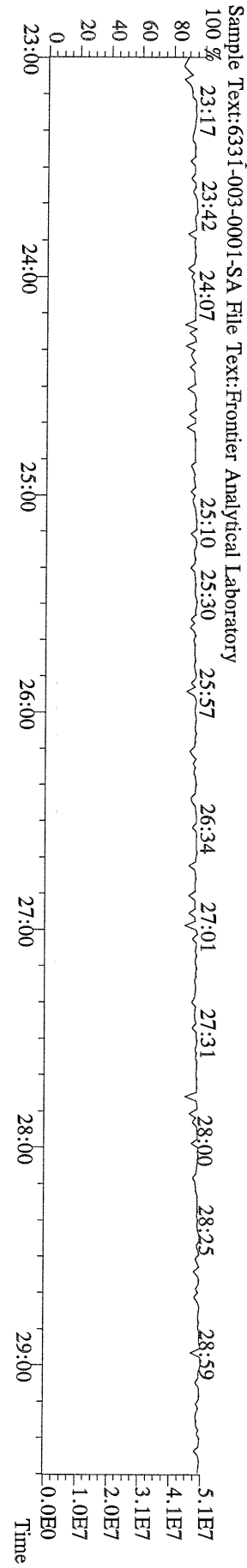
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 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-357 Acq:14-SEP-2010 23:54:29 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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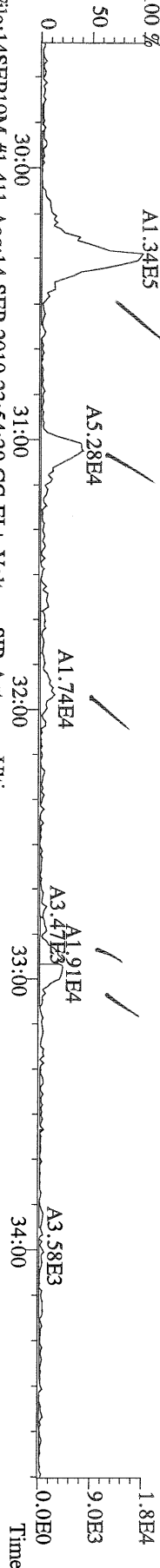


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 330.9792 S:6 Exp:PCDD  
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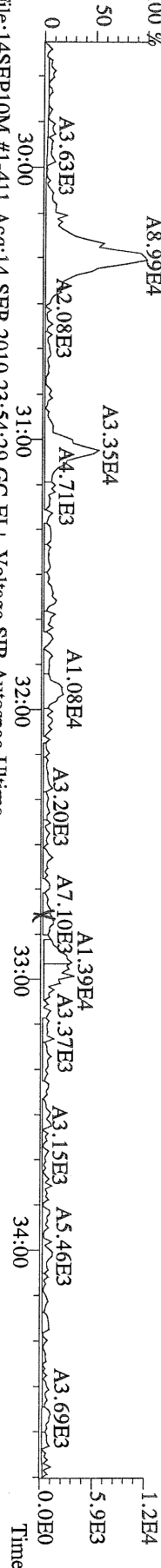




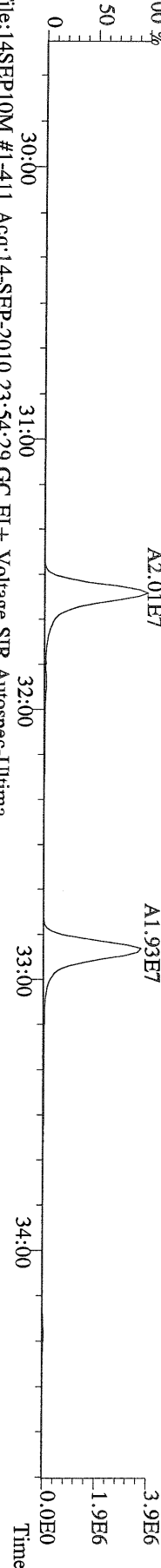
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 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



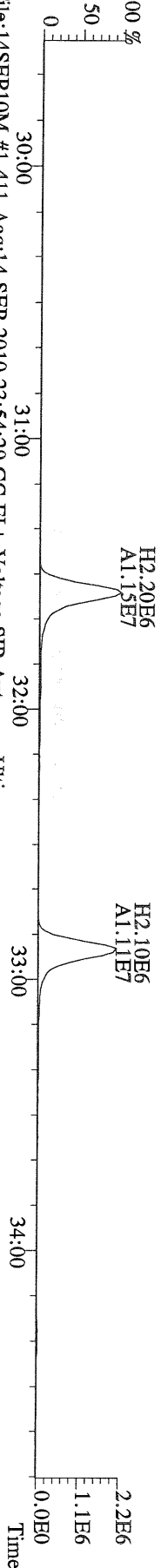
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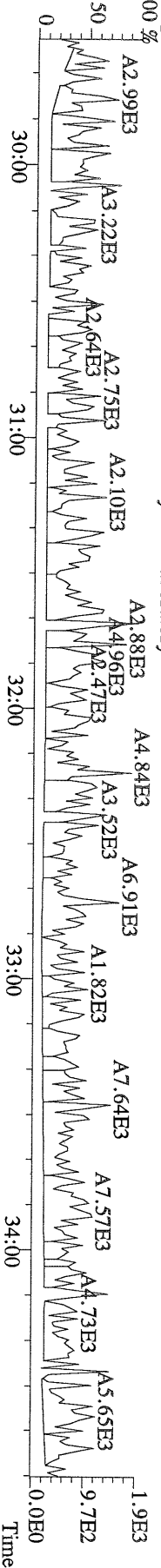
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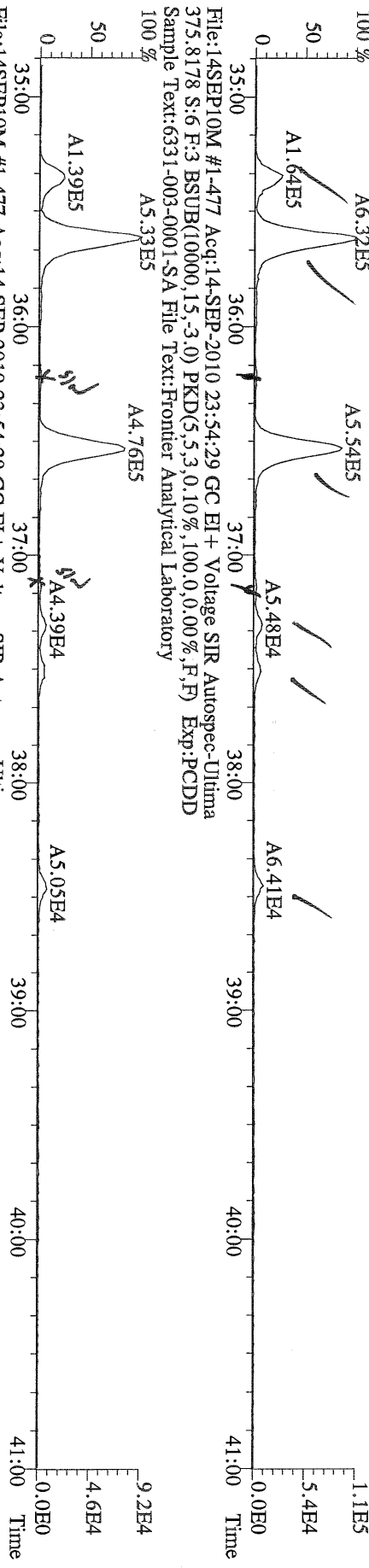
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 353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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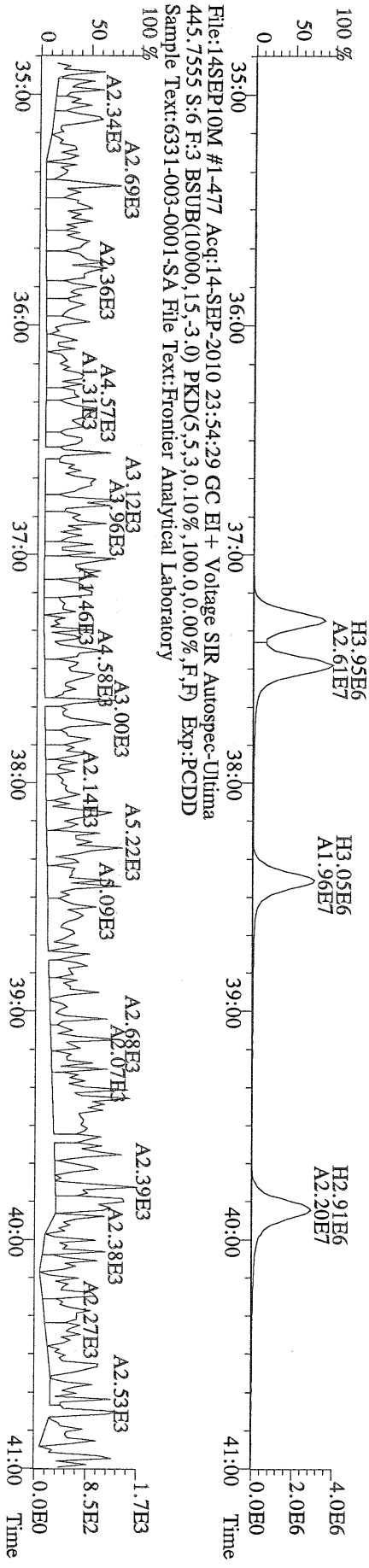
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 Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



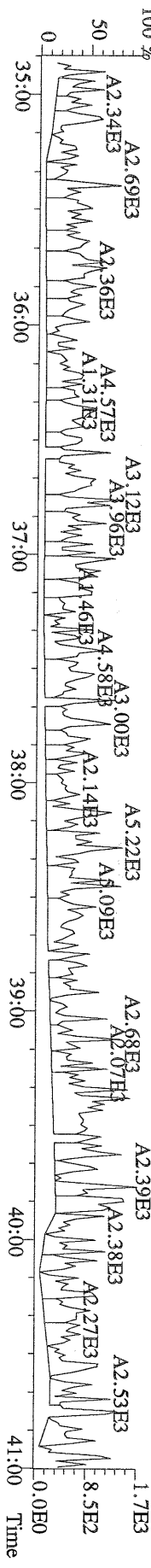
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373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



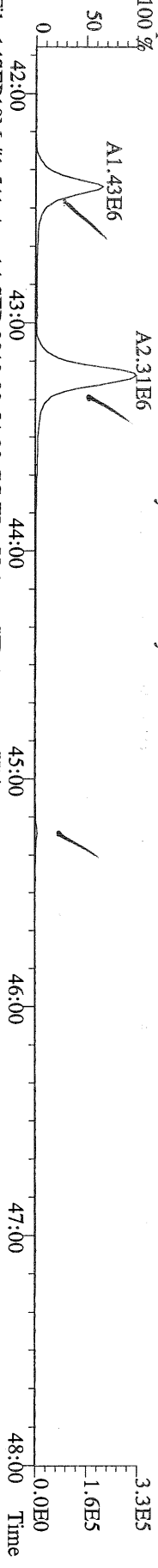
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383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



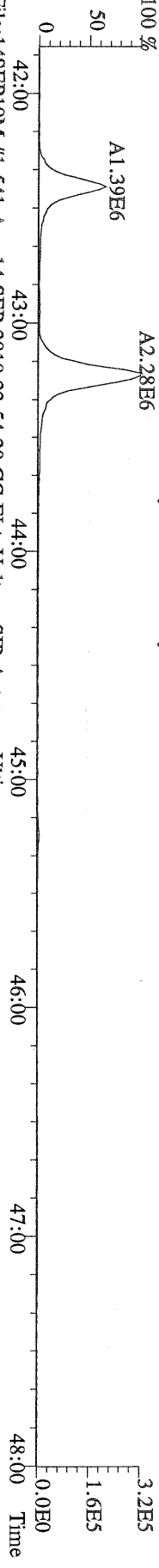
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445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



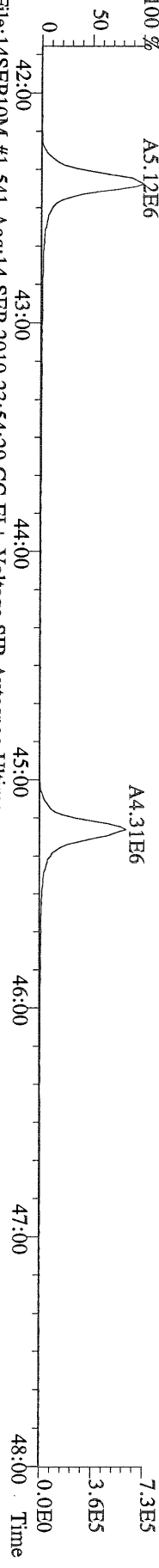
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



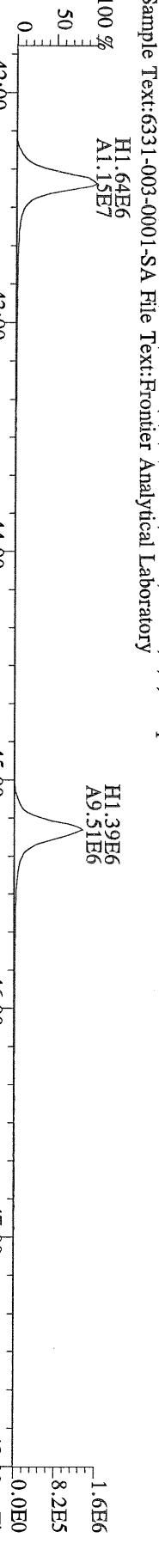
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409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



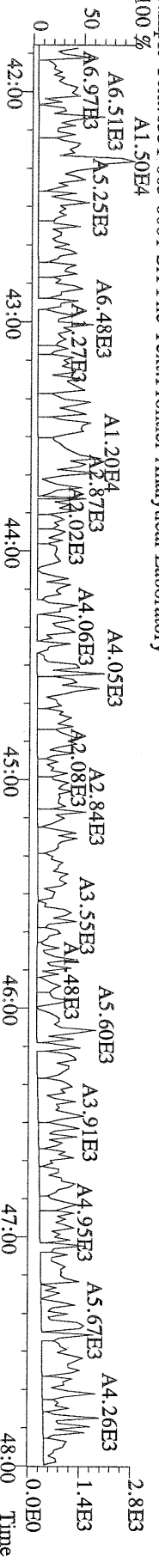
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417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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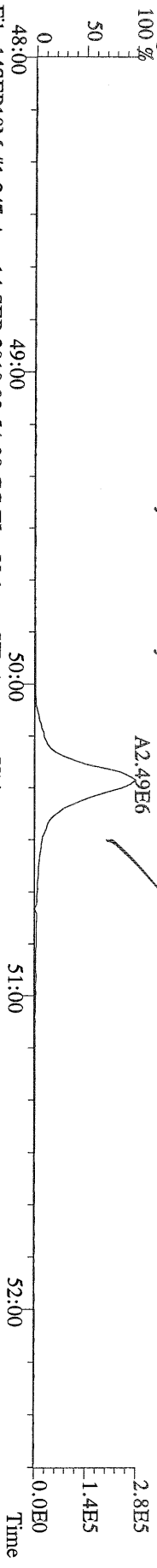
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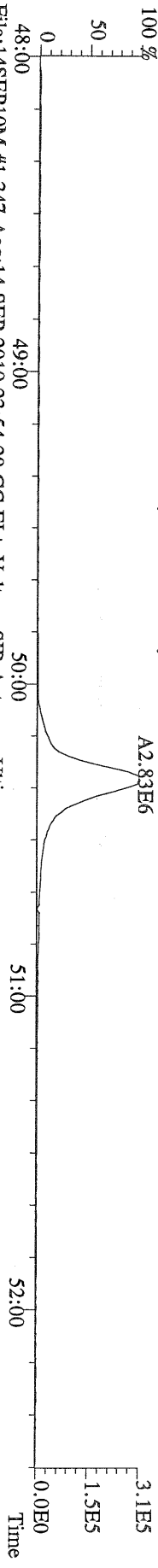
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479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



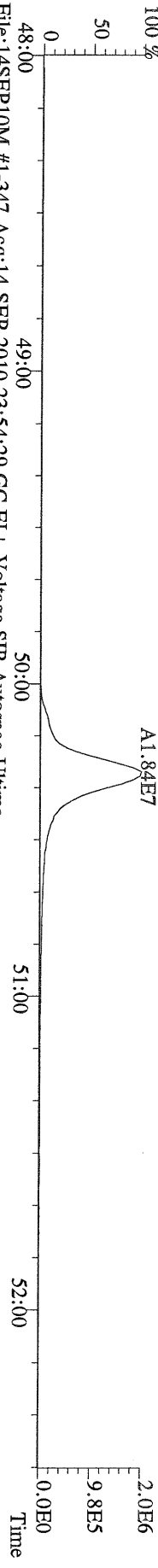
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441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



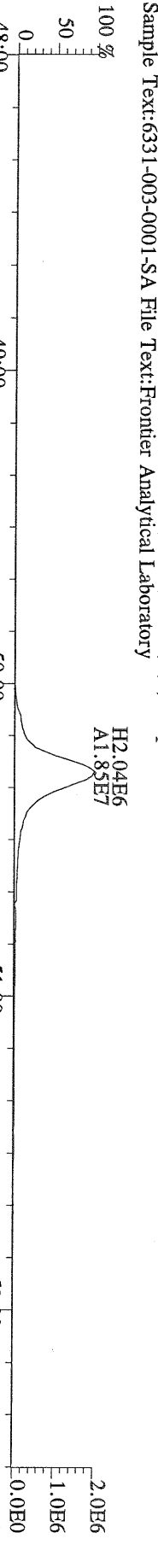
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443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



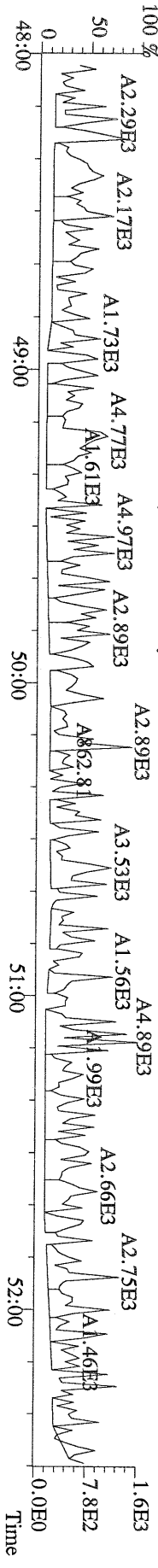
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453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:14-SEP-2010 23:54:29 GC EI + Voltage SIR Autospec-Ultima  
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:14-SEP-2010 23:54:29 GC EI + Voltage SIR Autospec-Ultima  
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6331-004-0001-SA      Filename: 14SEP10M      Sam:7      Acquired: 15-SEP-10 00:49:48      ICal: PCDDFAL3-8-23-10  
 Client ID: PSB20-2-4-082510-DUP      ConCal: ST091410M1      EndCal: ST091410M2  
 Results: 6331      GC Column: DB5      Amount: 4.920/

NATO 1989 Tox: 3.76      WHO 1998 Tox: 2.96      WHO 2005 Tox: 3.08/

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	419	538	0.152	
1,2,3,7,8-PeCDD	3.47e+04	1.39 y	33:20	1.10	0.452	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	6.86e+04	1.35 y	38:41	1.37	0.827	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	2.31e+05	1.37 y	38:52	1.37	3.20	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.42e+05	1.41 y	39:17	1.36	1.84	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	7.13e+06	0.93 y	44:18	1.45	97.2		2.50	-	-	*	
OCDD	3.89e+07	0.97 y	49:54	1.43	1050		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	460	833	0.0956	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	511	621	0.161	
2,3,4,7,8-PeCDF	4.49e+04	1.35 y	32:59	0.94	0.540	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	7.62e+04	1.21 y	37:19	0.93	0.908	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	6.47e+04	1.30 y	37:31	0.82	0.682	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	8.18e+04	1.20 y	38:27	0.92	0.974	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	777	665	0.229	
1,2,3,4,6,7,8-HpCDF	1.99e+06	1.01 y	42:24	1.39	29.2		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	8.29e+04	1.04 y	45:13	1.36	1.41	J	2.50	-	-	*	
OCDF	3.44e+06	0.91 y	50:17	0.79	91.2		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.58e+07	0.87 y	27:30	1.02	368					90.4	
13C-1,2,3,7,8-PeCDD	2.83e+07	1.76 y	33:19	0.84	491					121	
13C-1,2,3,4,7,8-HxCDD	2.45e+07	1.24 y	38:40	1.07	391					96.2	
13C-1,2,3,6,7,8-HxCDD	2.14e+07	1.25 y	38:50	1.01	362					89.0	
13C-1,2,3,4,6,7,8-HpCDD	2.05e+07	0.91 y	44:17	0.86	410					101	
13C-OCDD	2.11e+07	0.98 y	49:52	0.55	660					81.1	
13C-2,3,7,8-TCDF	4.09e+07	0.88 y	26:45	0.99	382					94.1	
13C-1,2,3,7,8-PeCDF	3.70e+07	1.78 y	31:35	0.84	411					101	
13C-2,3,4,7,8-PeCDF	3.61e+07	1.75 y	32:54	0.81	413					102	
13C-1,2,3,4,7,8-HxCDF	3.67e+07	0.46 y	37:17	1.85	340					83.5	
13C-1,2,3,6,7,8-HxCDF	4.70e+07	0.46 y	37:29	2.54	317					78.0	
13C-2,3,4,6,7,8-HxCDF	3.72e+07	0.48 y	38:26	2.01	316					77.7	
13C-1,2,3,7,8,9-HxCDF	4.15e+07	0.47 y	39:52	2.03	350					86.0	
13C-1,2,3,4,6,7,8-HpCDF	1.99e+07	0.43 y	42:23	1.11	307					75.6	
13C-1,2,3,4,7,8,9-HpCDF	1.77e+07	0.45 y	45:12	0.80	376					92.6	
13C-OCDF	3.91e+07	0.96 y	50:15	1.08	617					75.9	
37Cl-2,3,7,8-TCDD	6.97e+06		27:31	0.69	148					91.1	
13C-1,2,3,4-TCDD	2.79e+07	0.86 y	26:55	-	12.6						
13C-1,2,3,4-TCDF	4.38e+07	0.87 y	25:39	-	12.3						
13C-1,2,3,7,8,9-HxCDD	2.38e+07	1.25 y	39:17	-	17.5						
Total Tetra-Dioxins	4.49e+04		25:44	1.11	0.636	J	2.50	-	-	*	1
Total Penta-Dioxins	1.85e+05		30:21	1.10	2.41	J	2.50	-	-	*	5
Total Hexa-Dioxins	1.71e+06		36:14	1.37	22.3		2.50	-	-	*	7
Total Hepta-Dioxins	1.42e+07		42:55	1.45	194		2.50	-	-	*	2
Total Tetra-Furans	1.29e+05		23:55	1.50	0.853	J	2.50	-	-	*	2
1st Fn. Tot Penta-Furans	2.59e+05		28:34	0.94	3.06		2.50	-	-	*	PeCDF 1 7/20/10
Total Penta-Furans	2.33e+05		30:21	0.94	2.76		2.50	-	-	*	5.83 3
Total Hexa-Furans	1.86e+06		35:21	0.91	20.5		2.50	-	-	*	5.82 6
Total Hepta-Furans	5.37e+06		42:24	1.38	82.4		2.50	-	-	*	3

Analyst: 

Date: 9/15/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 1

Acquired: 15-SEP-10 00:49:48

Total Concentration: 0.636

Unnamed Concentration: 0.636

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
25:44	2.06e+04	2.43e+04	0.85 y	4.49e+04	0.636

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 2

Acquired: 15-SEP-10 00:49:48

Total Concentration: 2.41

Unnamed Concentration: 1.958

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	3.53e+04	2.03e+04	1.74 y	5.56e+04	0.724	
30:57	1.81e+04	1.19e+04	1.52 y	3.00e+04	0.390	
31:36	1.75e+04	9.90e+03	1.76 y	2.74e+04	0.357	
31:50	2.16e+04	1.59e+04	1.36 y	3.75e+04	0.488	
33:20	2.02e+04	1.45e+04	1.39 y	3.47e+04	0.452	1,2,3,7,8-PeCDD

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 3

Acquired: 15-SEP-10 00:49:48

Total Concentration: 22.3

Unnamed Concentration: 16.391

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	2.46e+05	1.79e+05	1.37 y	4.26e+05	5.50	
37:10	5.08e+04	3.57e+04	1.42 y	8.65e+04	1.12	
37:36	4.26e+05	2.99e+05	1.42 y	7.24e+05	9.36	
38:41	3.94e+04	2.92e+04	1.35 y	6.86e+04	0.827	1,2,3,4,7,8-HxCDD
38:52	1.34e+05	9.78e+04	1.37 y	2.31e+05	3.20	1,2,3,6,7,8-HxCDD
39:09	1.72e+04	1.49e+04	1.16 y	3.21e+04	0.414	
39:17	8.28e+04	5.88e+04	1.41 y	1.42e+05	1.84	1,2,3,7,8,9-HxCDD



Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 4

Acquired: 15-SEP-10 00:49:48

Total Concentration: 194

Unnamed Concentration: 96.862

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:55	3.41e+06	3.69e+06	0.92 y	7.11e+06	96.9	
44:18	3.44e+06	3.69e+06	0.93 y	7.13e+06	97.2	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 1

Acquired: 15-SEP-10 00:49:48

Total Concentration: 0.853

Unnamed Concentration: 0.853

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:55	3.86e+04	5.08e+04	0.76 y	8.93e+04	0.591	
25:33	1.76e+04	2.21e+04	0.79 y	3.97e+04	0.262	

Totals class: 1st Fn. Tot Penta-Furans      Entry #: 43

Run: 14      File: 14SEP10M      S: 7 I: 1 F: 1  
Acquired: 15-SEP-10 00:49:48

Total Concentration: 3.06      Unnamed Concentration: 3.061

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
28:34	1.61e+05	9.77e+04 1.65 y	2.59e+05	3.06	

Totals class: Total Penta-Furans

Entry #: 44

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 2

Acquired: 15-SEP-10 00:49:48

Total Concentration: 2.76

Unnamed Concentration: 2.225

RT	mL Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	7.00e+04	5.18e+04	1.35 y	1.22e+05	1.44	
31:03	3.97e+04	2.64e+04	1.50 y	6.62e+04	0.783	
32:59	2.58e+04	1.91e+04	1.35 y	4.49e+04	0.540	2,3,4,7,8-PeCDF

Totals class: Total Hexa-Furans

Entry #: 45

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 3

Acquired: 15-SEP-10 00:49:48

Total Concentration: 20.5

Unnamed Concentration: 17.976

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:21	1.10e+05	9.28e+04	1.19 y	2.03e+05	2.23	
35:37	3.91e+05	3.19e+05	1.23 y	7.10e+05	7.81	
36:32	4.00e+05	3.21e+05	1.25 y	7.21e+05	7.93	
37:19	4.17e+04	3.46e+04	1.21 y	7.62e+04	0.908	1,2,3,4,7,8-HxCDF
37:31	3.66e+04	2.82e+04	1.30 y	6.47e+04	0.682	1,2,3,6,7,8-HxCDF
38:27	4.47e+04	3.72e+04	1.20 y	8.18e+04	0.974	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 14

File: 14SEP10M

S: 7 I: 1 F: 4

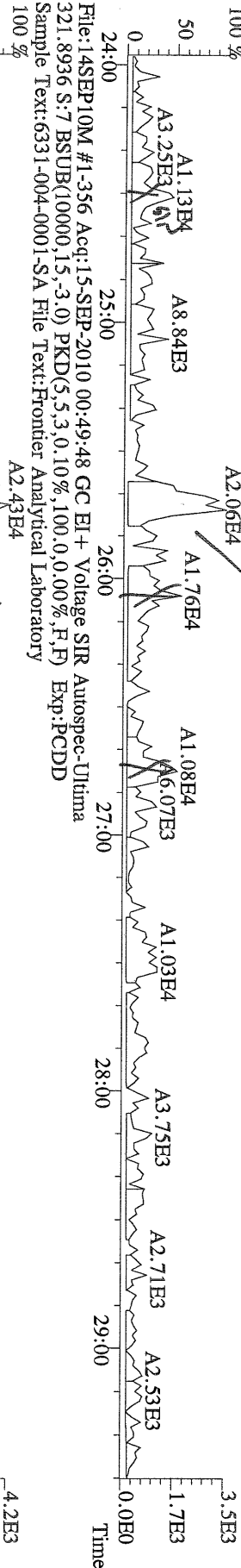
Acquired: 15-SEP-10 00:49:48

Total Concentration: 82.4

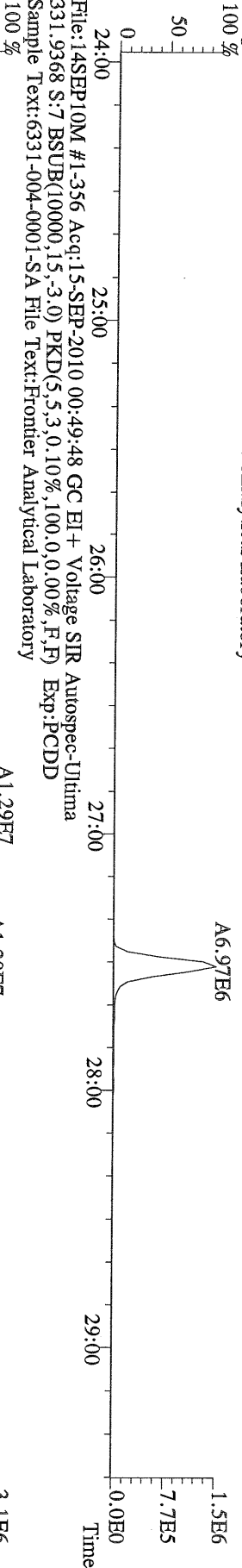
Unnamed Concentration: 51.789

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:24	1.00e+06	9.91e+05	1.01 y	1.99e+06	29.2	1,2,3,4,6,7,8-HpCDF
43:13	1.66e+06	1.64e+06	1.01 y	3.30e+06	51.8	
45:13	4.22e+04	4.07e+04	1.04 y	8.29e+04	1.41	1,2,3,4,7,8,9-HpCDF

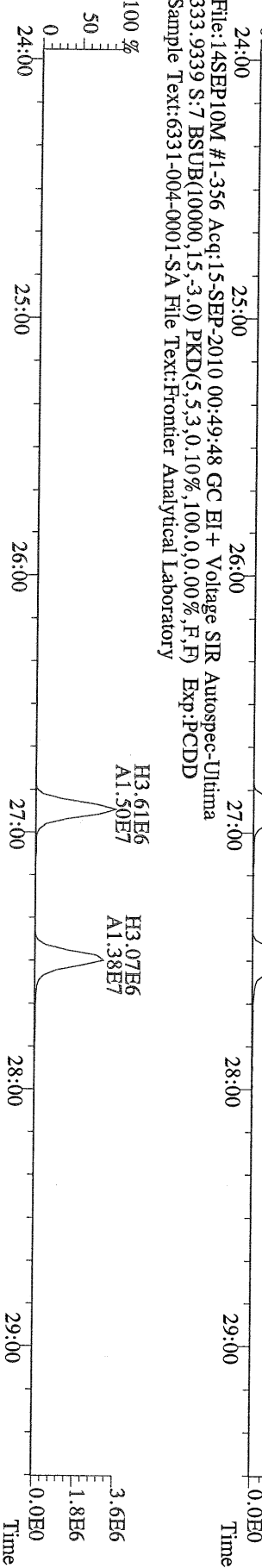
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319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



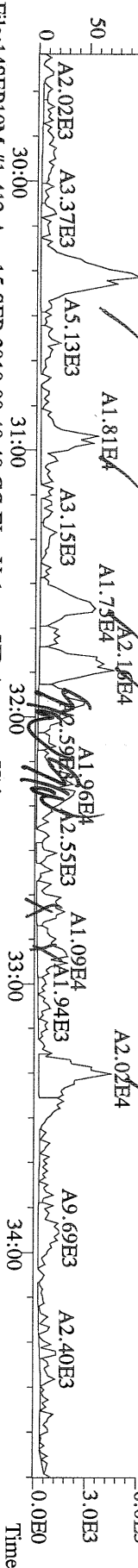
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327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



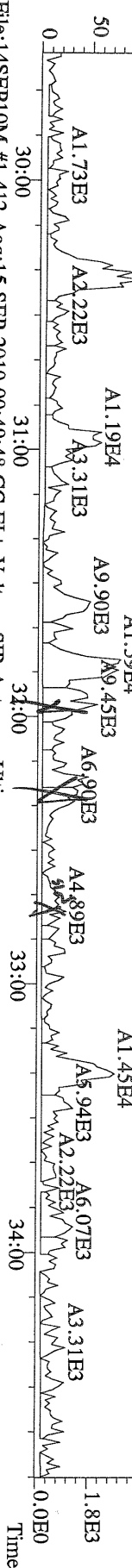
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333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



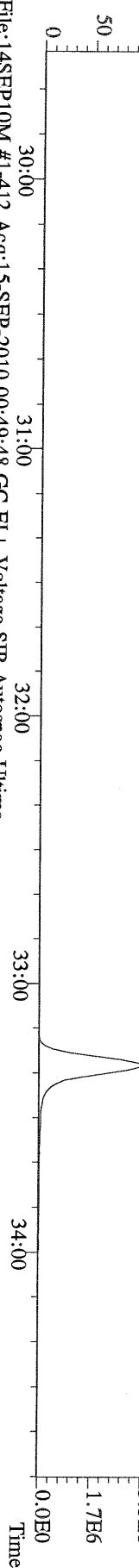
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 355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



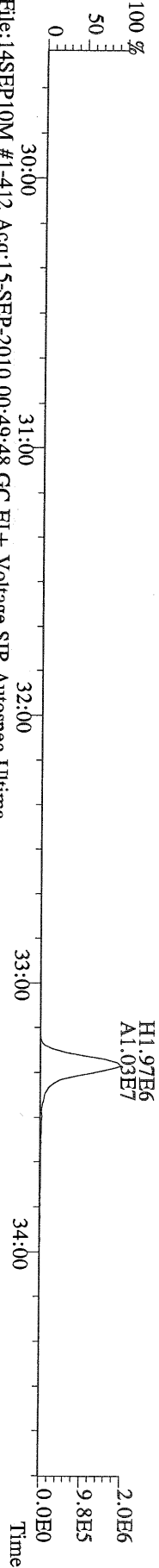
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 357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



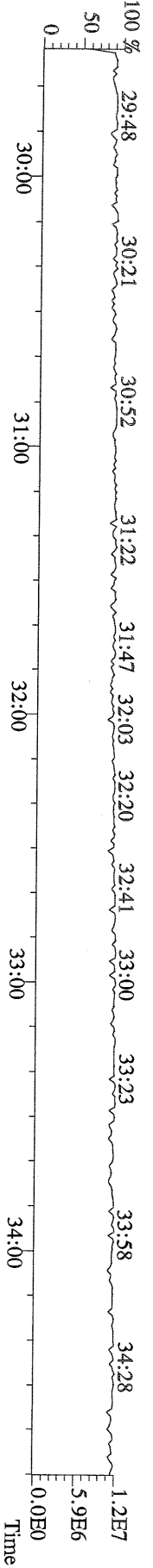
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 367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-412 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
 369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory

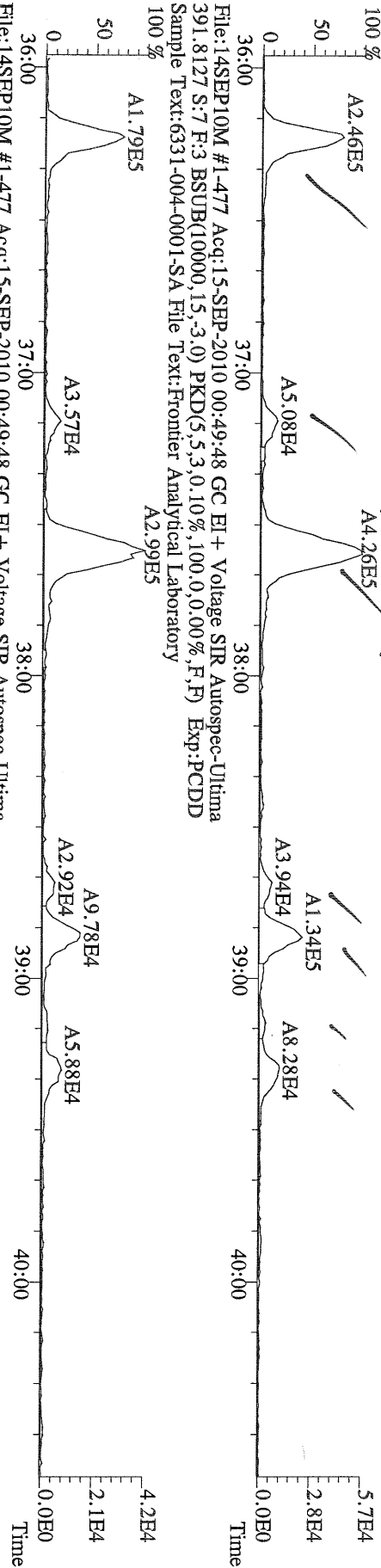


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 366.9792 S:7 F:2 Exp:PCDD  
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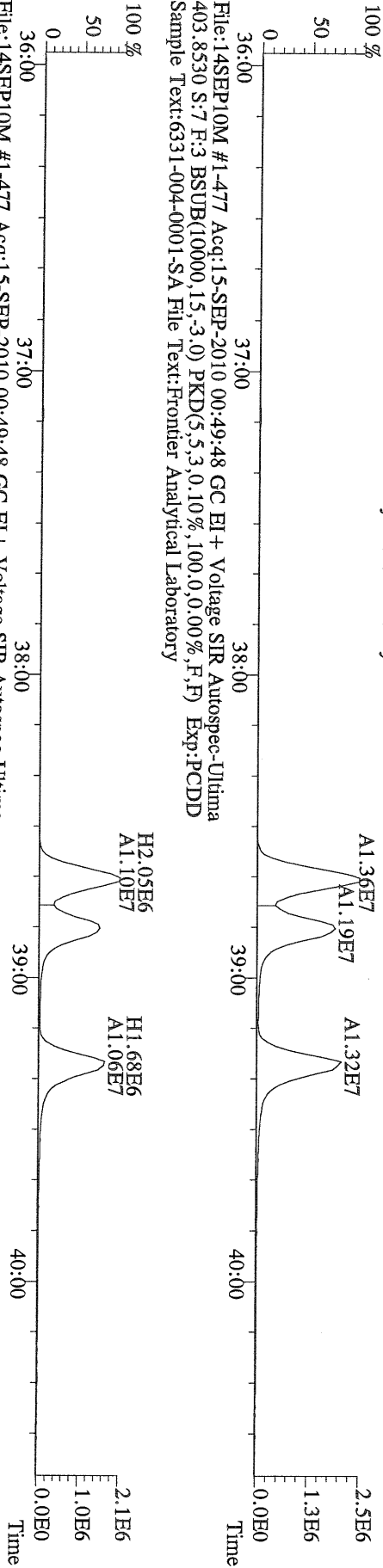




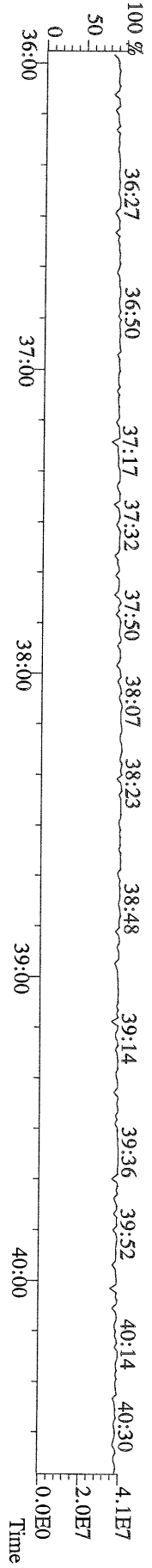
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389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



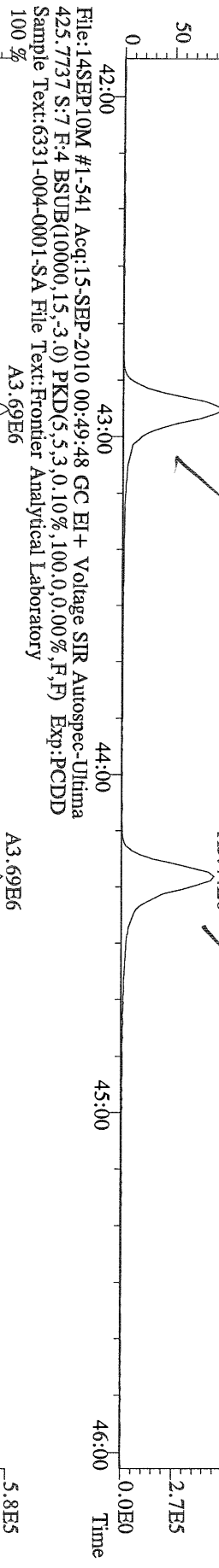
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401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



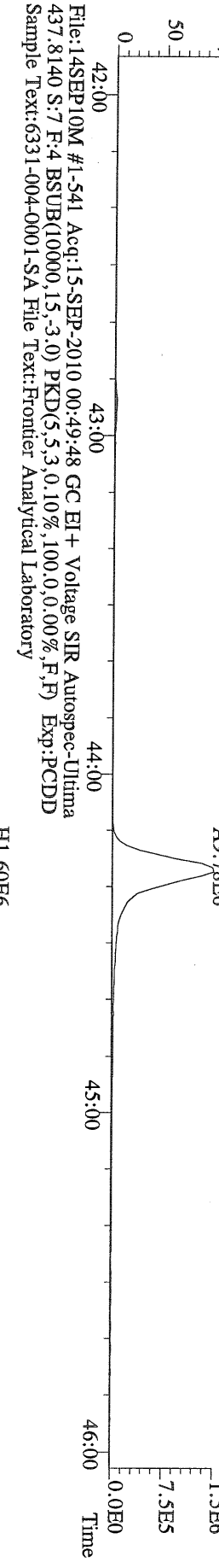
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380.9760 S:7 F:3 Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



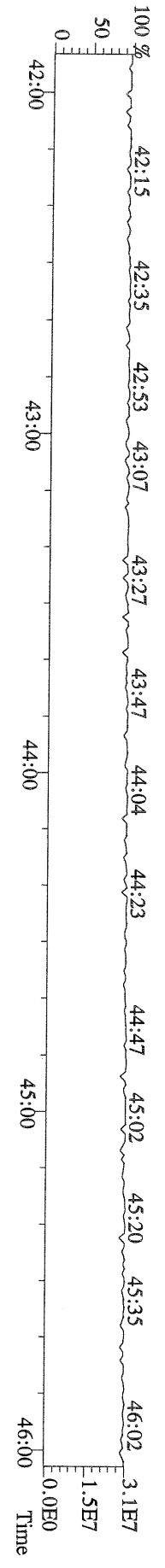
File:14SEP10M #1-541 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



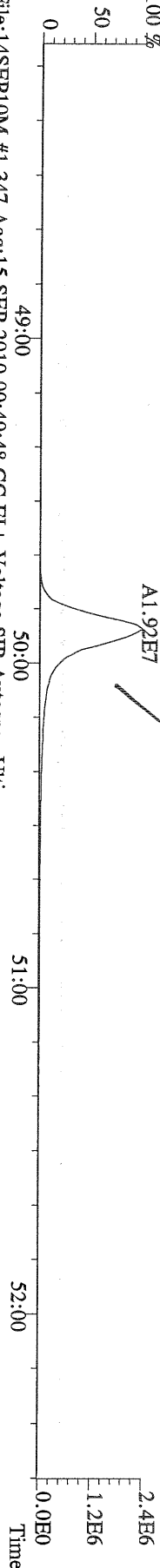
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435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



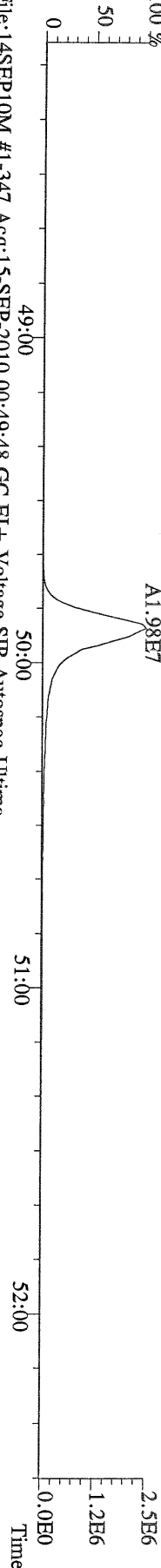
File:14SEP10M #1-541 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:7 F:4 Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



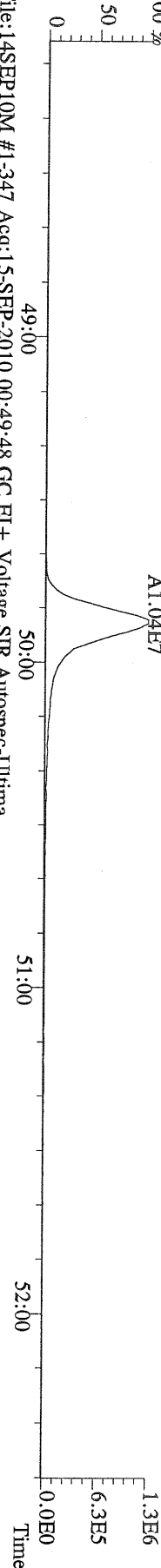
File:14SEP10M #1-347 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



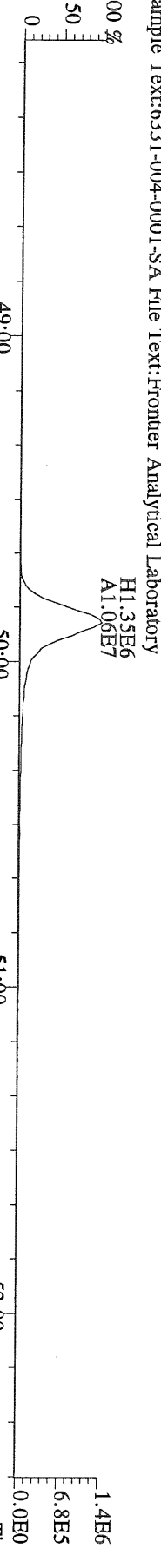
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459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



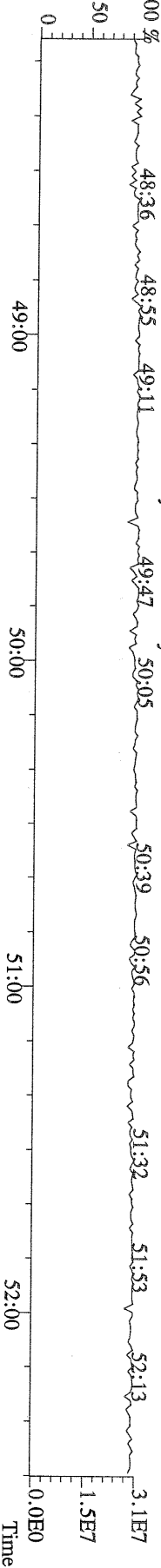
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469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



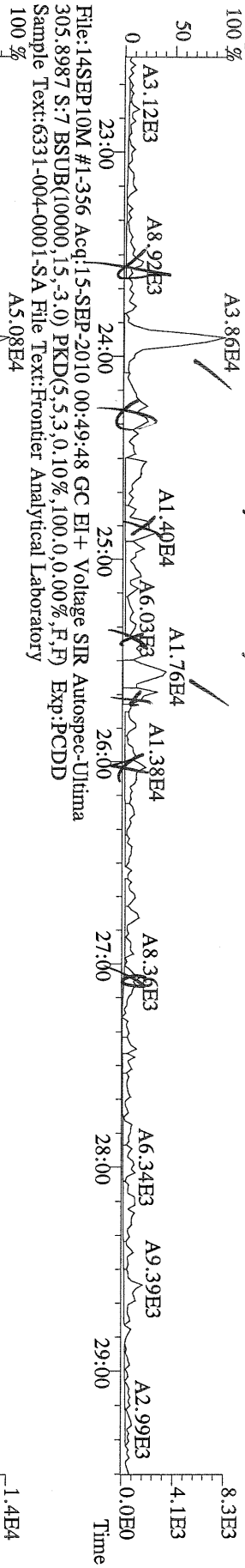
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471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



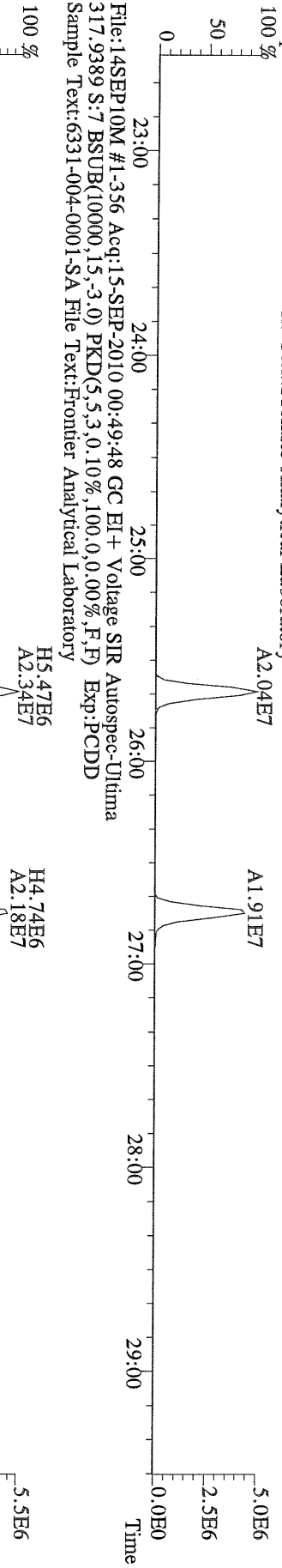
File:14SEP10M #1-347 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:7 F:5 Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



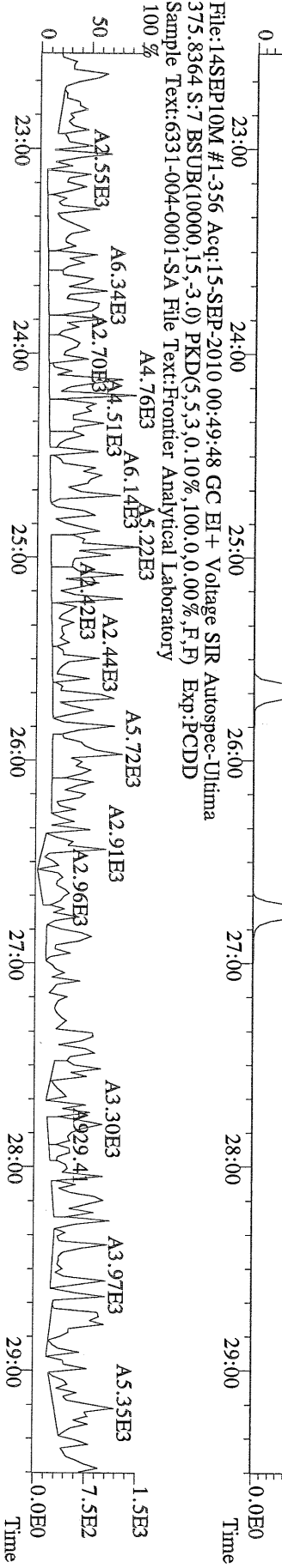
File:14SEP10M #1-356 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



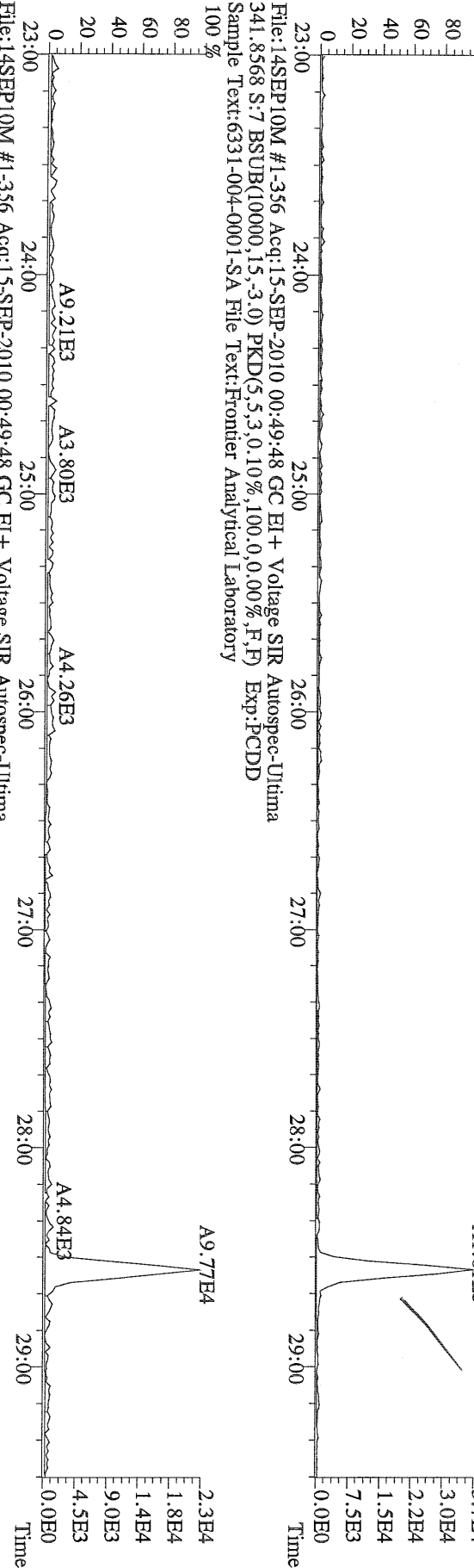
File:14SEP10M #1-356 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



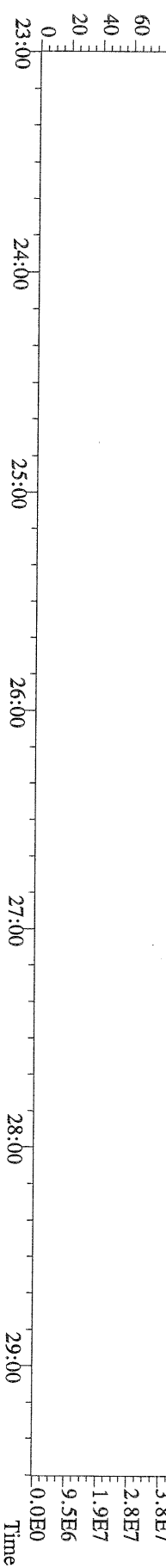
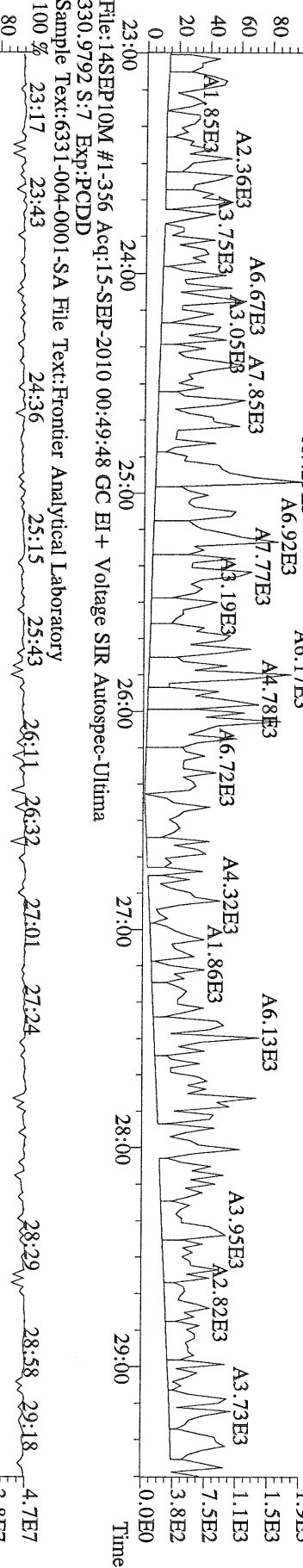
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375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



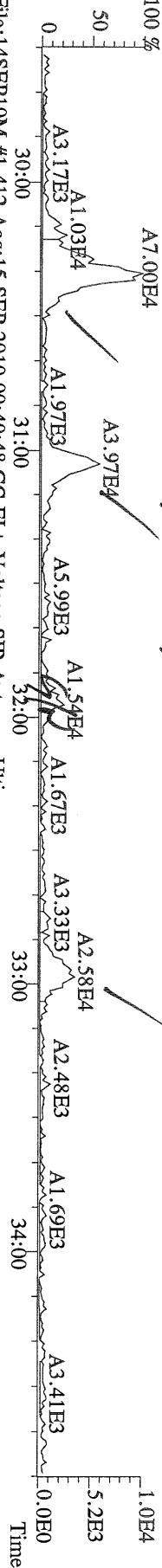
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 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



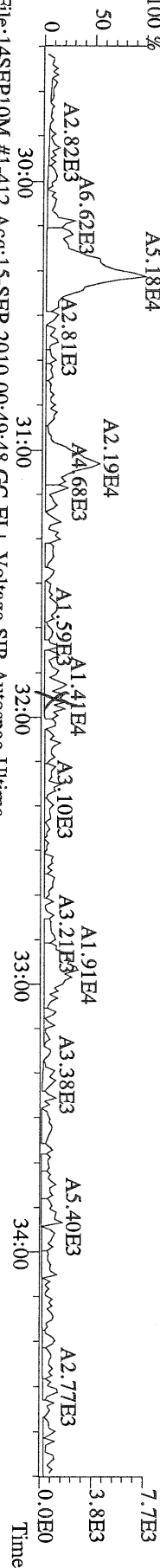
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 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



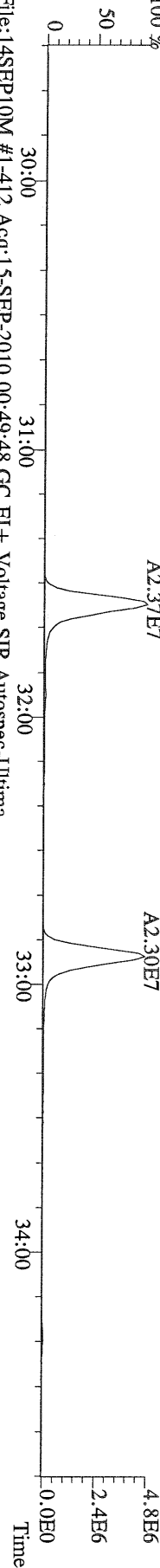
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 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



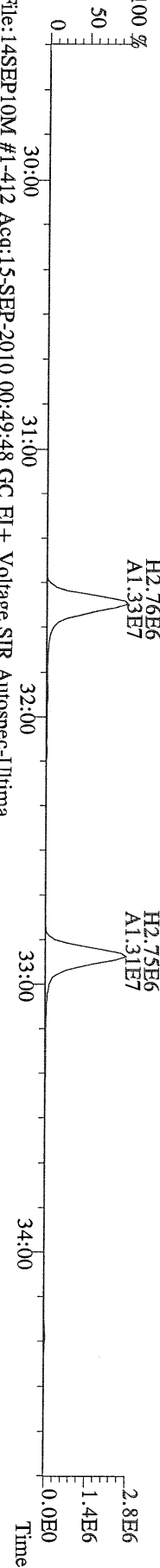
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 341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



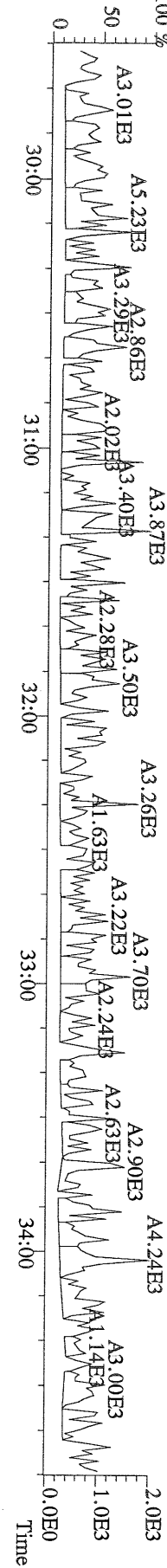
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 351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



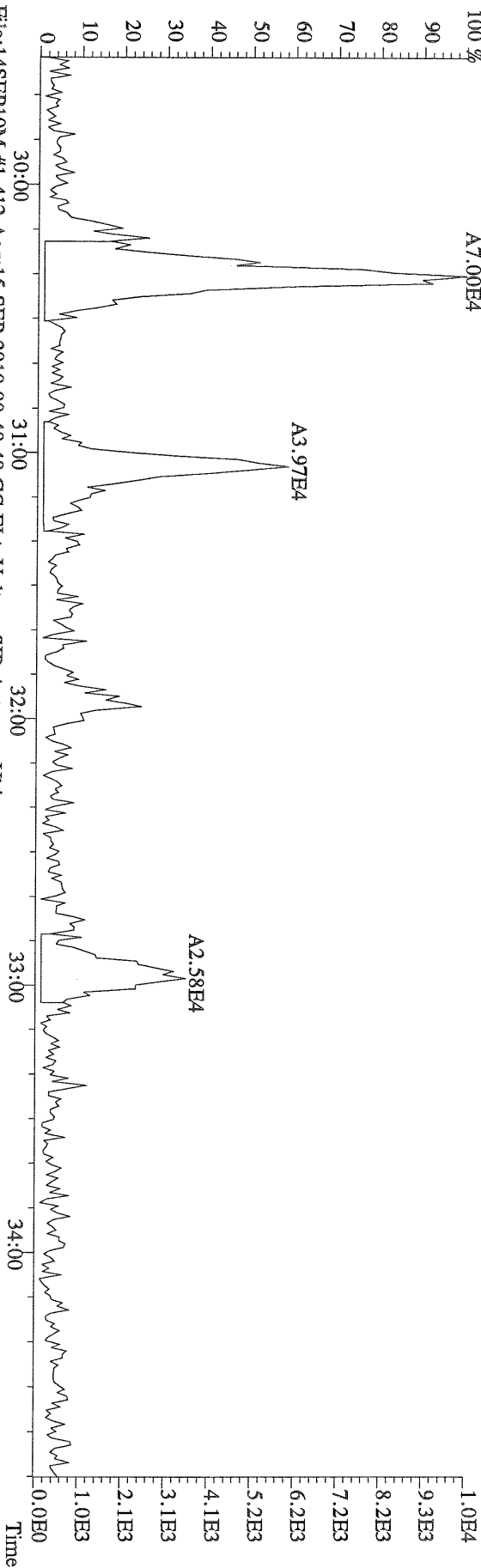
File:14SEP10M #1-412 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
 353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



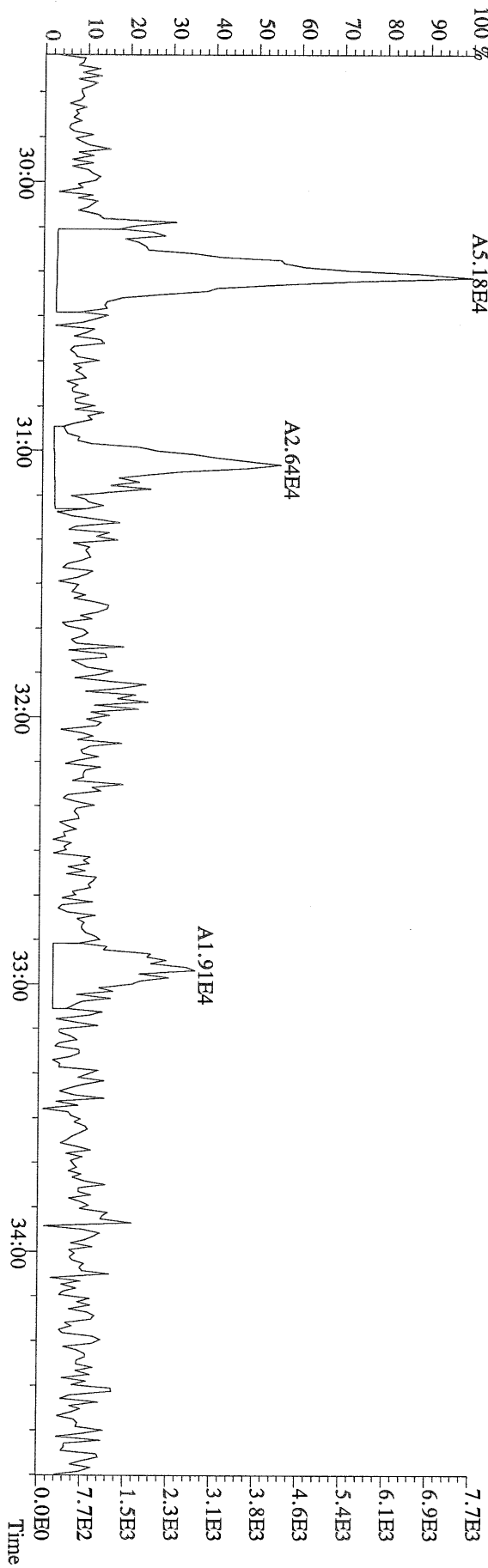
File:14SEP10M #1-412 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



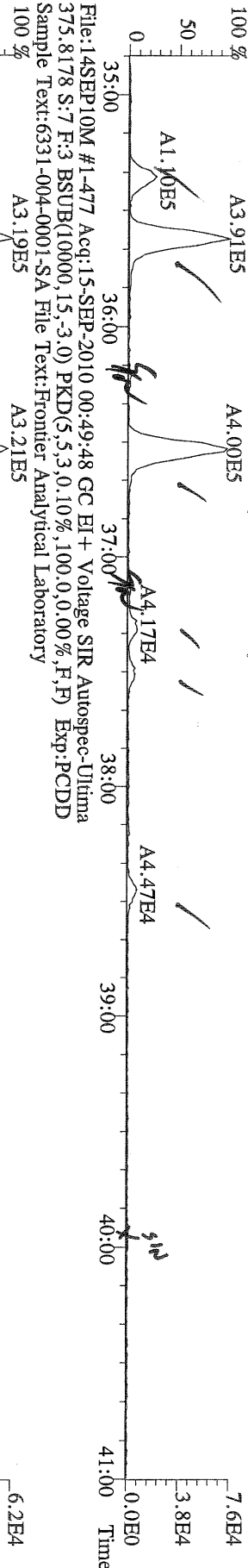
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339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 % A7.00E4



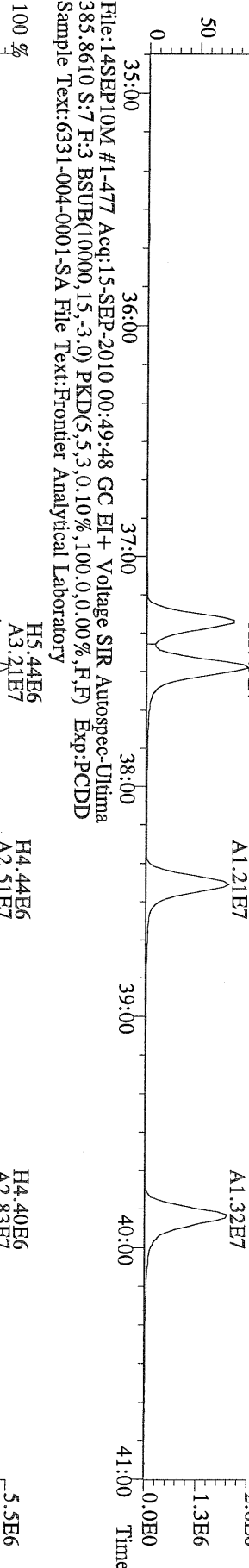
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341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
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100 % A5.18E4



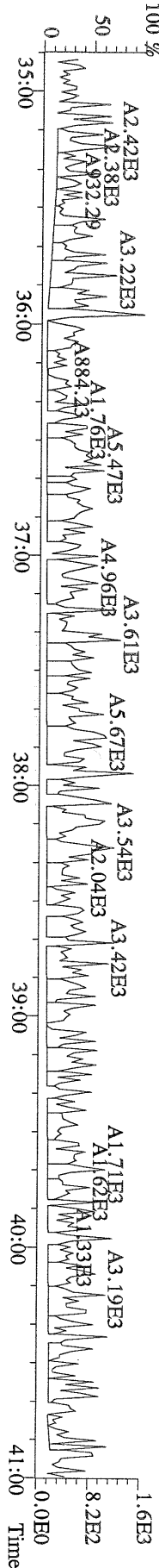
File:14SEP10M #1-477 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-477 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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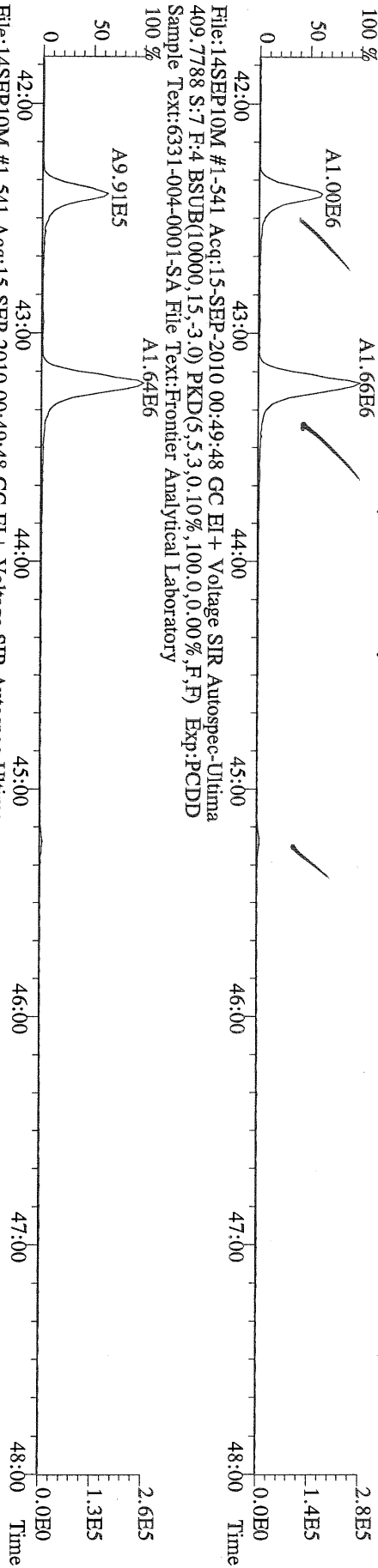


File:14SEP10M #1-477 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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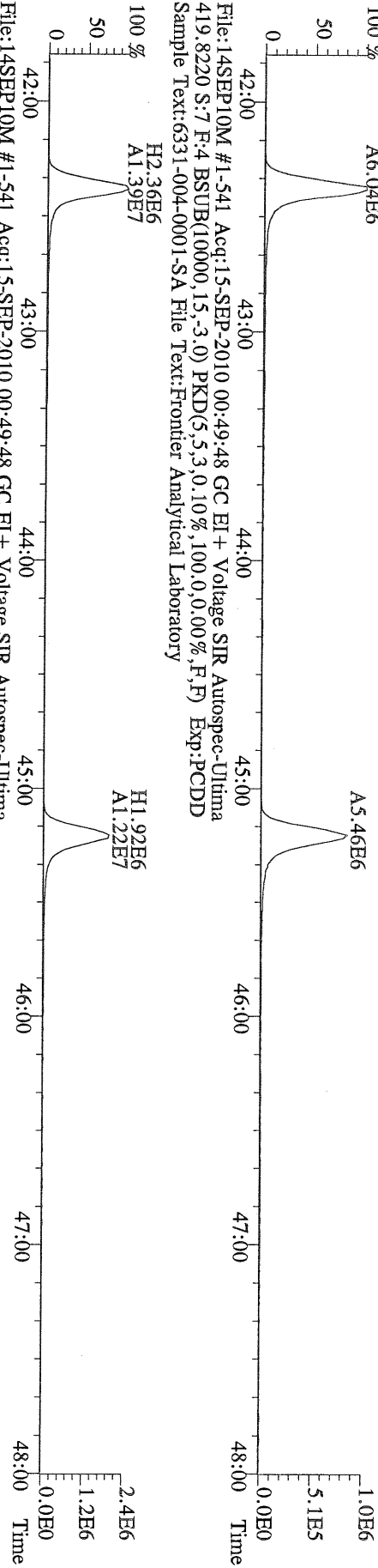




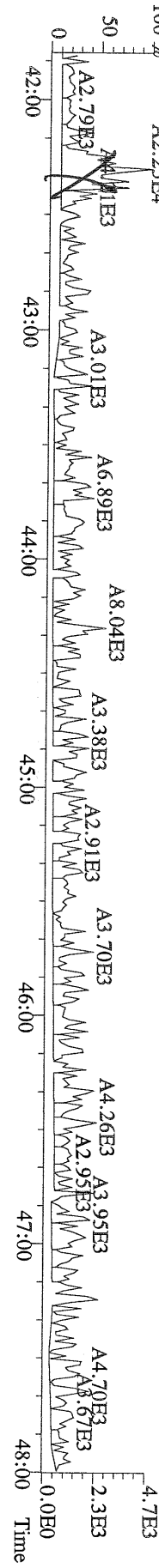
File:14SEP10M #1-541 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



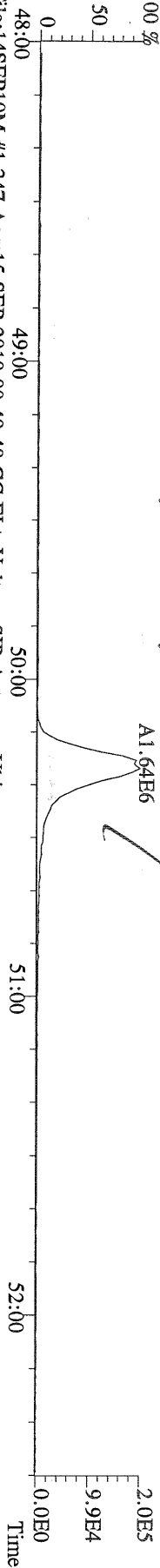
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417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



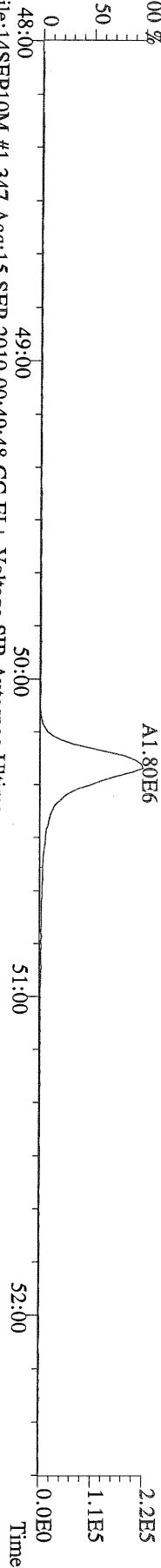
File:14SEP10M #1-541 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



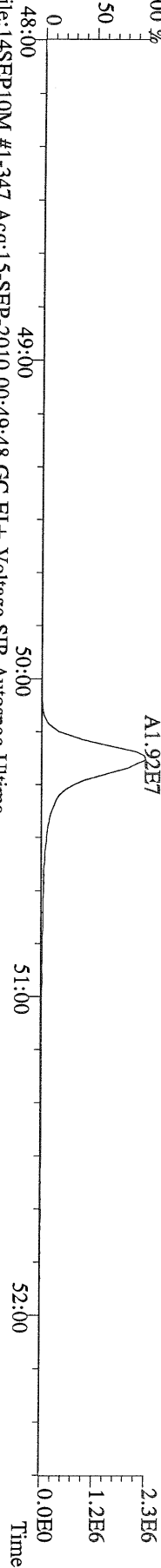
File:14SEP10M #1-347 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



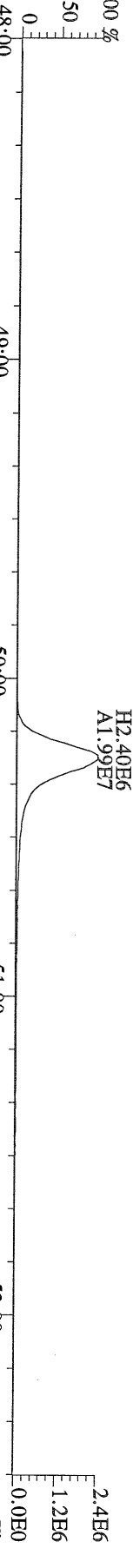
File:14SEP10M #1-347 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %



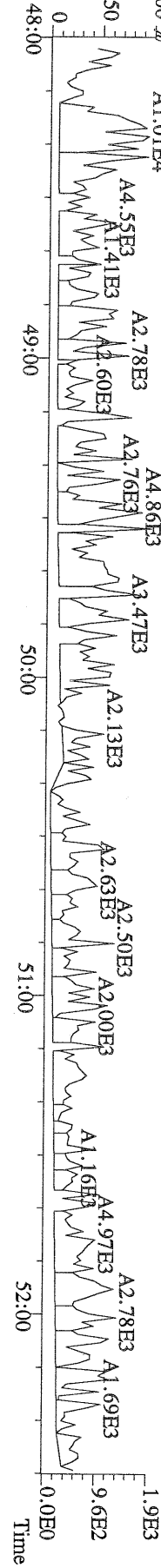
File:14SEP10M #1-347 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory  
100 %




File:14SEP10M #1-347 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:15-SEP-2010 00:49:48 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-004-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	961	1390	0.341	
1,2,3,7,8-PeCDD	1.89e+05	1.51 y	33:19	1.10	2.41	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	3.66e+05	1.40 y	38:42	1.37	4.62	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.31e+06	1.37 y	38:52	1.37	18.1		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	8.32e+05	1.34 y	39:19	1.36	11.1		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	3.79e+07	0.88 y	44:19	1.45	491		2.50	-	-	*	
OCDD	2.19e+08	0.96 y	49:54	1.43	4910		2.50	-	-	*	
2,3,7,8-TCDF	5.68e+04	0.74 y	26:46	1.50	0.346	J	2.50	-	-	*	
1,2,3,7,8-PeCDF	5.91e+04	1.41 y	31:35	0.94	0.634	J	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.28e+05	1.47 y	32:57	0.94	1.43	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	4.01e+05	1.18 y	37:18	0.93	4.63	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	4.33e+05	1.13 y	37:30	0.82	4.52	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	5.91e+05	1.23 y	38:28	0.92	7.06		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	5.10e+04	1.20 y	39:58	1.00	0.505	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.35e+07	1.01 y	42:24	1.39	192		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	3.65e+05	0.96 y	45:14	1.36	5.92		2.50	-	-	*	
OCDF	2.16e+07	0.89 y	50:16	0.79	510		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.77e+07	0.87 y	27:29	1.02	370					92.0	
13C-1,2,3,7,8-PeCDD	2.86e+07	1.69 y	33:18	0.84	465					116	
13C-1,2,3,4,7,8-HxCDD	2.32e+07	1.24 y	38:40	1.07	366					91.1	
13C-1,2,3,6,7,8-HxCDD	2.11e+07	1.25 y	38:51	1.01	354					88.0	
13C-1,2,3,4,6,7,8-HpCDD	2.13e+07	0.91 y	44:17	0.86	422					105	
13C-OCDD	2.49e+07	0.97 y	49:53	0.55	773					96.3	
13C-2,3,7,8-TCDF	4.39e+07	0.88 y	26:45	0.99	385					95.8	
13C-1,2,3,7,8-PeCDF	3.97e+07	1.76 y	31:35	0.84	413					103	
13C-2,3,4,7,8-PeCDF	3.85e+07	1.76 y	32:54	0.81	413					103	
13C-1,2,3,4,7,8-HxCDF	3.75e+07	0.46 y	37:17	1.85	343					85.4	
13C-1,2,3,6,7,8-HxCDF	4.69e+07	0.46 y	37:29	2.54	313					78.1	
13C-2,3,4,6,7,8-HxCDF	3.66e+07	0.47 y	38:25	2.01	308					76.7	
13C-1,2,3,7,8,9-HxCDF	4.06e+07	0.47 y	39:51	2.03	339					84.4	
13C-1,2,3,4,6,7,8-HpCDF	2.04e+07	0.43 y	42:23	1.11	311					77.4	
13C-1,2,3,4,7,8,9-HpCDF	1.82e+07	0.44 y	45:12	0.80	384					95.7	
13C-OCDF	4.33e+07	0.98 y	50:15	1.08	678					84.4	
37Cl-2,3,7,8-TCDD	7.20e+06		27:31	0.69	144					89.5	
13C-1,2,3,4-TCDD	2.94e+07	0.86 y	26:55	-	13.1						
13C-1,2,3,4-TCDF	4.61e+07	0.88 y	25:40	-	12.8						
13C-1,2,3,7,8,9-HxCDD	2.37e+07	1.21 y	39:17	-	17.3						
Total Tetra-Dioxins	2.55e+05		24:32	1.11	3.33		2.50	-	-	*	4
Total Penta-Dioxins	1.41e+06		30:21	1.10	18.0		2.50	-	-	*	9
Total Hexa-Dioxins	9.82e+06		36:14	1.37	131		2.50	-	-	*	7
Total Hepta-Dioxins	7.63e+07		42:55	1.45	988		2.50	-	-	*	2
Total Tetra-Furans	2.40e+06		23:32	1.50	14.6	M	2.50	-	-	*	12
1st Fn. Tot Penta-Furans	2.84e+06		28:33	0.94	31.0		2.50	-	-	*	PeCDF 1
Total Penta-Furans	2.41e+06		30:21	0.94	26.3		2.50	-	-	*	57.4 8
Total Hexa-Furans	1.37e+07		35:21	0.91	150		2.50	-	-	*	9
Total Hepta-Furans	3.37e+07		42:24	1.38	498		2.50	-	-	*	4

Analyst: 

Date: 9/15/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 15

File: 14SEP10M

S: 8 I: 1 F: 1

Acquired: 15-SEP-10 01:45:07

Total Concentration: 3.33

Unnamed Concentration: 3.328

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:32	3.49e+04	4.23e+04	0.83 y	7.72e+04	1.01	
24:47	2.58e+04	3.21e+04	0.80 y	5.78e+04	0.755	
25:42	3.02e+04	3.44e+04	0.88 y	6.46e+04	0.844	
26:03	2.54e+04	2.96e+04	0.86 y	5.50e+04	0.719	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 15

File: 14SEP10M

S: 8 I: 1 F: 2

Acquired: 15-SEP-10 01:45:07

Total Concentration: 18.0

Unnamed Concentration: 15.621

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	1.98e+05	1.35e+05	1.47 y	3.33e+05	4.24	
30:58	7.88e+04	4.83e+04	1.63 y	1.27e+05	1.62	
31:35	8.54e+04	5.35e+04	1.59 y	1.39e+05	1.77	
31:48	1.44e+05	1.02e+05	1.42 y	2.46e+05	3.14	
31:57	7.87e+04	5.33e+04	1.48 y	1.32e+05	1.68	
32:14	8.78e+04	5.76e+04	1.53 y	1.45e+05	1.85	
33:19	1.14e+05	7.53e+04	1.51 y	1.89e+05	2.41	1,2,3,7,8-PeCDD
33:25	3.23e+04	2.15e+04	1.50 y	5.38e+04	0.686	
33:55	3.14e+04	1.80e+04	1.75 y	4.94e+04	0.630	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 15

File: 14SEP10M

S: 8 I: 1 F: 3

Acquired: 15-SEP-10 01:45:07

Total Concentration: 131

Unnamed Concentration: 96.795

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	1.50e+06	1.09e+06	1.38 y	2.59e+06	34.4	
37:10	2.43e+05	1.73e+05	1.41 y	4.16e+05	5.51	
37:37	2.42e+06	1.77e+06	1.36 y	4.19e+06	55.5	
38:42	2.14e+05	1.53e+05	1.40 y	3.66e+05	4.62	1,2,3,4,7,8-HxCDD
38:52	7.57e+05	5.52e+05	1.37 y	1.31e+06	18.1	1,2,3,6,7,8-HxCDD
39:09	6.52e+04	4.62e+04	1.41 y	1.11e+05	1.48	
39:19	4.76e+05	3.56e+05	1.34 y	8.32e+05	11.1	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 15

File: 14SEP10M

S: 8 I: 1 F: 4

Acquired: 15-SEP-10 01:45:07

Total Concentration: 988

Unnamed Concentration: 497.151

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:55	1.81e+07	2.03e+07	0.89 y	3.84e+07	497	
44:19	1.78e+07	2.01e+07	0.88 y	3.79e+07	491	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 15 File: 14SEP10M S: 8 I: 1 F: 1  
Acquired: 15-SEP-10 01:45:07

Total Concentration: 14.6

Unnamed Concentration: 14.288

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:32	5.47e+04	7.95e+04	0.69 y	1.34e+05	0.817	
23:55	3.07e+05	5.11e+05	0.60 n	7.07e+05	4.30	
24:14	6.73e+04	8.02e+04	0.84 y	1.48e+05	0.899	
24:33	7.99e+04	1.16e+05	0.69 y	1.96e+05	1.19	
24:50	1.63e+05	2.45e+05	0.67 y	4.08e+05	2.49	
25:03	1.50e+04	1.93e+04	0.78 y	3.43e+04	0.209	
25:34	1.90e+05	2.81e+05	0.68 y	4.71e+05	2.87	
26:02	2.15e+04	2.86e+04	0.75 y	5.01e+04	0.305	
26:40	2.21e+04	2.51e+04	0.88 y	4.72e+04	0.287	
26:46	2.42e+04	3.25e+04	0.74 y	5.68e+04	0.346	2,3,7,8-TCDF
27:06	2.95e+04	3.64e+04	0.81 y	6.58e+04	0.401	
28:35	3.89e+04	4.50e+04	0.86 y	8.39e+04	0.511	



Totals class: 1st Fn. Tot Penta-Furans      Entry #: 43

Run: 15      File: 14SEP10M      S: 8 I: 1 F: 1  
Acquired: 15-SEP-10 01:45:07

Total Concentration: 31.0      Unnamed Concentration: 31.041

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:33	1.74e+06	1.09e+06	1.59 y	2.84e+06	31.0	

Totals class: Total Penta-Furans

Entry #: 44

Run: 15

File: 14SEP10M

S: 8 I: 1 F: 2

Acquired: 15-SEP-10 01:45:07

Total Concentration: 26.3

Unnamed Concentration: 24.275

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	7.73e+05	4.66e+05	1.66 y	1.24e+06	13.5	
31:03	3.24e+05	2.12e+05	1.53 y	5.36e+05	5.86	
31:21	2.27e+04	1.57e+04	1.45 y	3.84e+04	0.419	
31:35	3.45e+04	2.46e+04	1.41 y	5.91e+04	0.634	1,2,3,7,8-PeCDF
31:57	1.02e+05	6.93e+04	1.47 y	1.71e+05	1.87	
32:47	2.27e+04	1.61e+04	1.41 y	3.89e+04	0.425	
32:57	7.63e+04	5.20e+04	1.47 y	1.28e+05	1.43	2,3,4,7,8-PeCDF
32:59	1.18e+05	7.95e+04	1.49 y	1.98e+05	2.16	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 15

File: 14SEP10M

S: 8 I: 1 F: 3

Acquired: 15-SEP-10 01:45:07

Total Concentration: 150

Unnamed Concentration: 133.210

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:21	8.98e+05	7.64e+05	1.18 y	1.66e+06	18.1	
35:37	3.36e+06	2.87e+06	1.17 y	6.23e+06	68.0	
36:14	5.25e+04	4.21e+04	1.25 y	9.46e+04	1.03	
36:32	2.25e+06	1.89e+06	1.19 y	4.14e+06	45.2	
37:09	3.82e+04	3.51e+04	1.09 y	7.34e+04	0.801	
37:18	2.17e+05	1.84e+05	1.18 y	4.01e+05	4.63	1,2,3,4,7,8-HxCDF
37:30	2.30e+05	2.03e+05	1.13 y	4.33e+05	4.52	1,2,3,6,7,8-HxCDF
38:28	3.26e+05	2.65e+05	1.23 y	5.91e+05	7.06	2,3,4,6,7,8-HxCDF
39:58	2.78e+04	2.31e+04	1.20 y	5.10e+04	0.505	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 15

File: 14SEP10M

S: 8 I: 1 F: 4

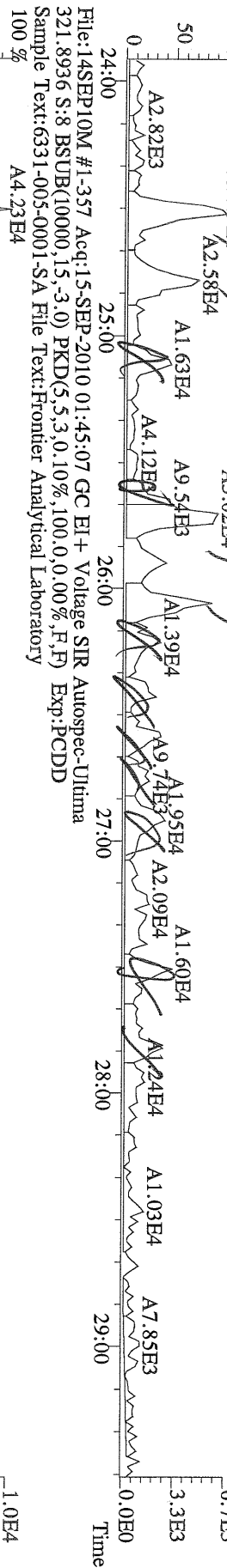
Acquired: 15-SEP-10 01:45:07

Total Concentration: 498

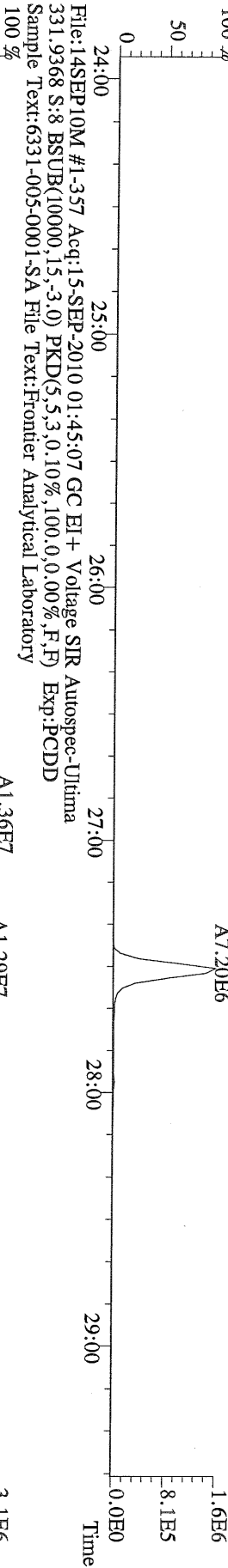
Unnamed Concentration: 300.362

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
42:24	6.79e+06	6.74e+06	1.01 y	1.35e+07	192	1,2,3,4,6,7,8-HpCDF
42:57	1.37e+05	1.36e+05	1.01 y	2.73e+05	4.13	
43:13	9.76e+06	9.83e+06	0.99 y	1.96e+07	296	
45:14	1.79e+05	1.86e+05	0.96 y	3.65e+05	5.92	1,2,3,4,7,8,9-HpCDF

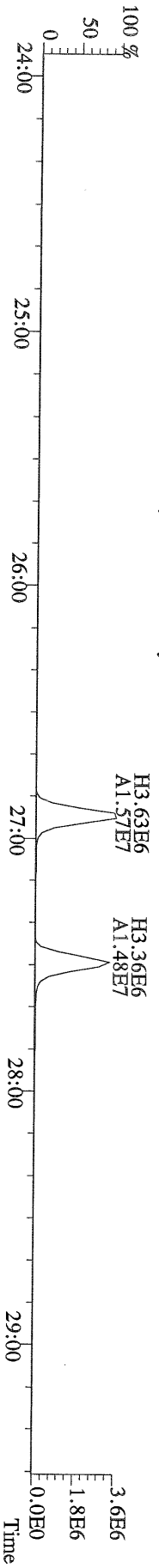
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 319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



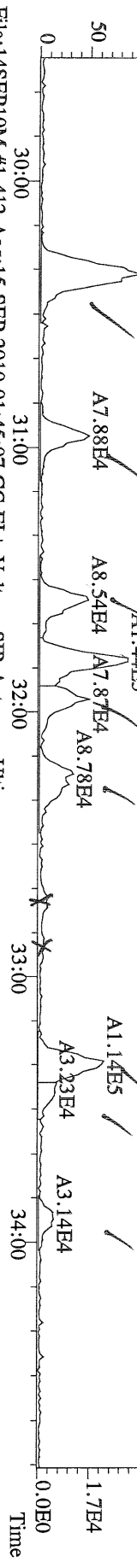
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 327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
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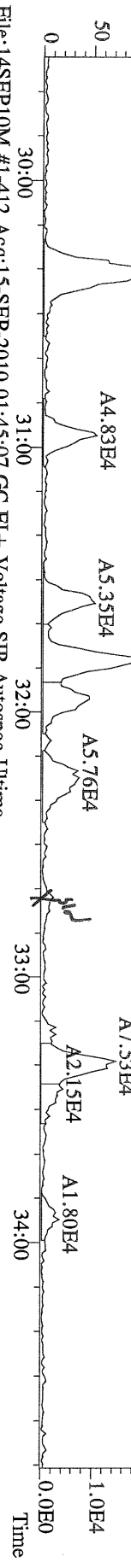
File:14SEP10M #1-357 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



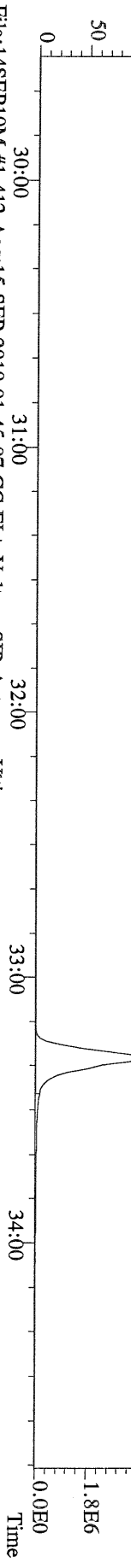
File:14SEP10M #1-412 Acq:15-SEP-2010 01:45:07 GC EI + Voltage SIR Autospec-Ultima  
 355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



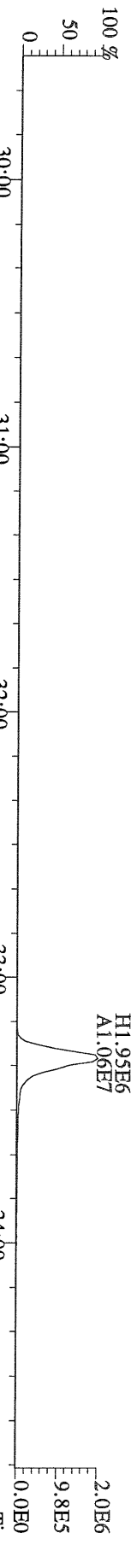
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 357.8517 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD  
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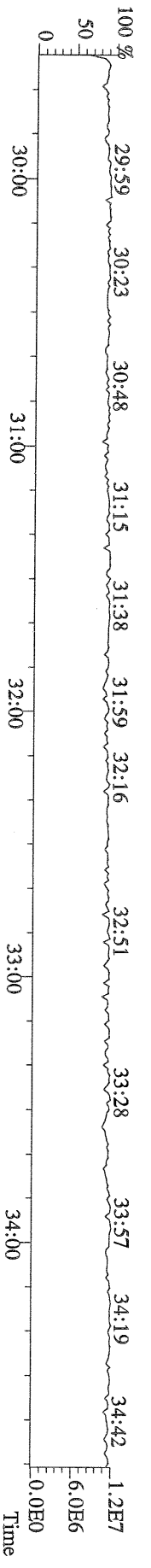
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 367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



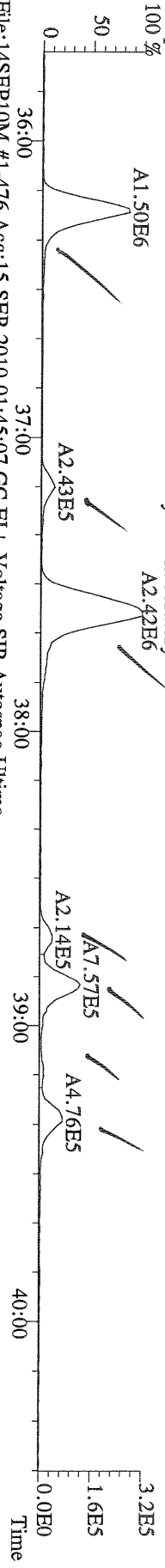
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 369.8919 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD  
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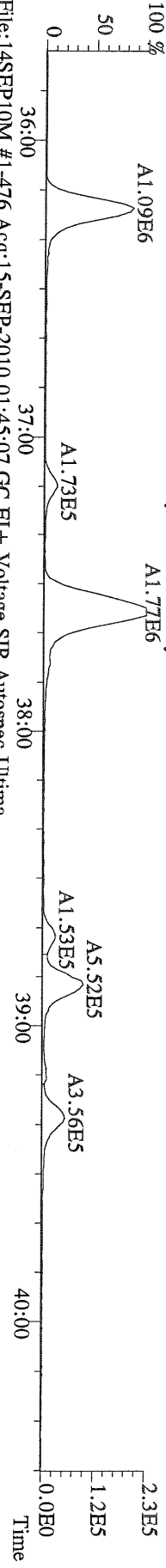
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 366.9792 S:8 F:2 Exp:PCDD  
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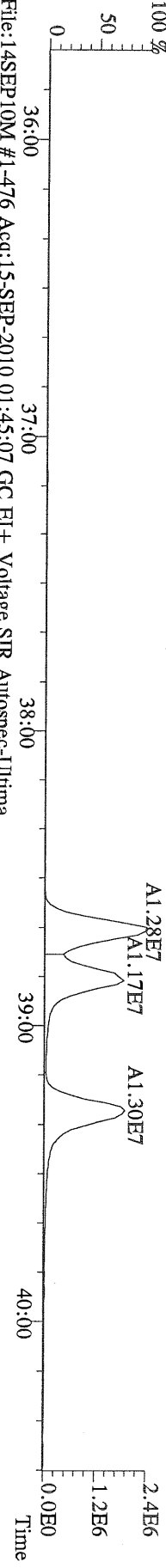
File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



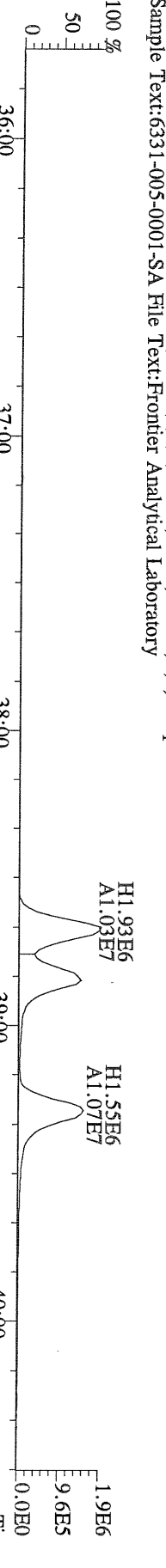
File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



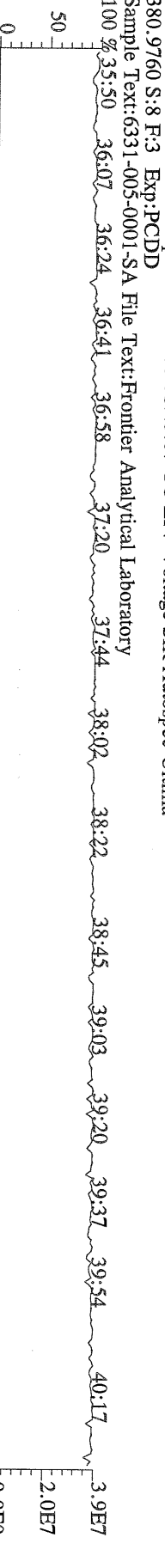
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 401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

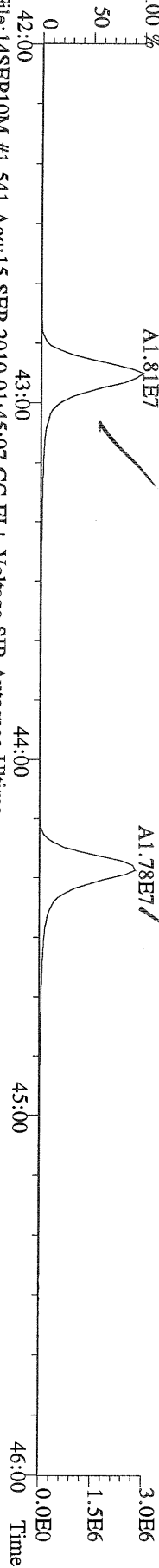


File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:8 F:3 Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

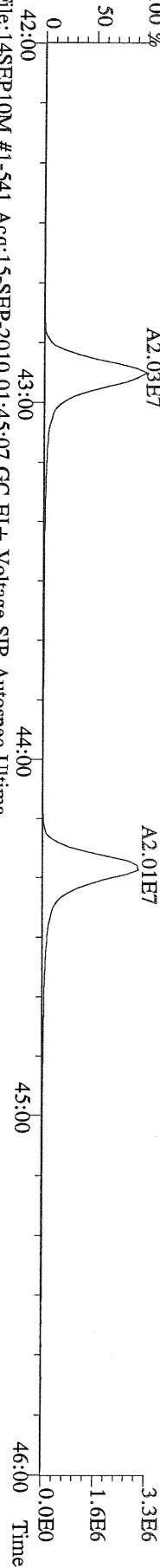


File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

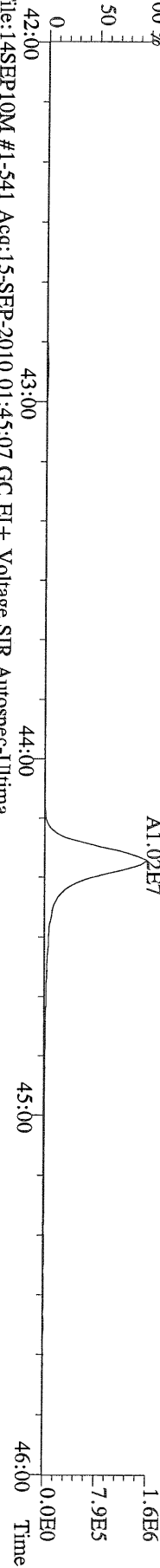
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423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



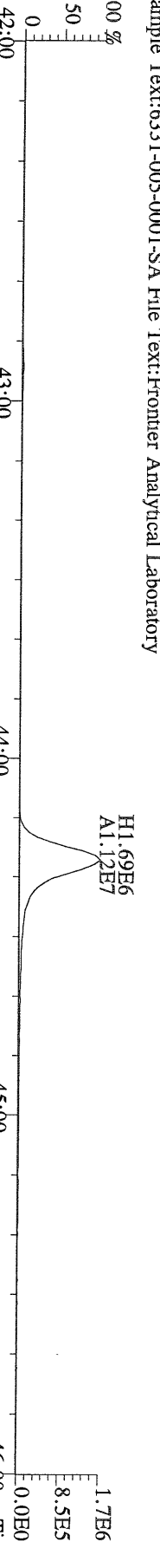
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425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



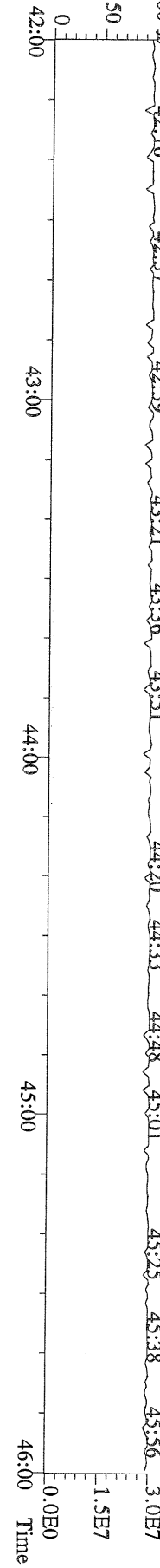
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435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-541 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

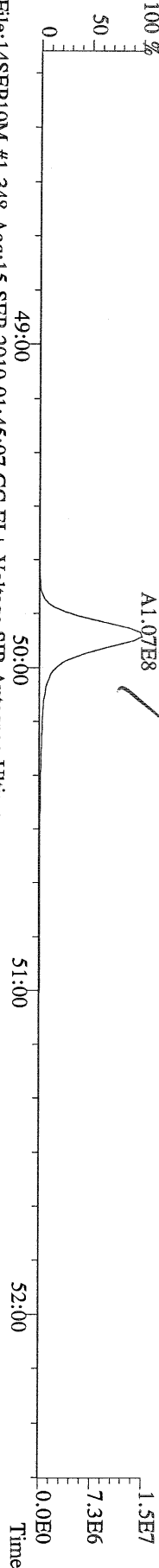


File:14SEP10M #1-541 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:8 F:4 Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

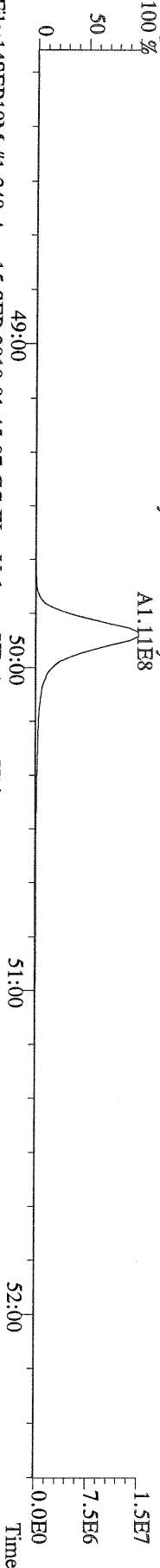




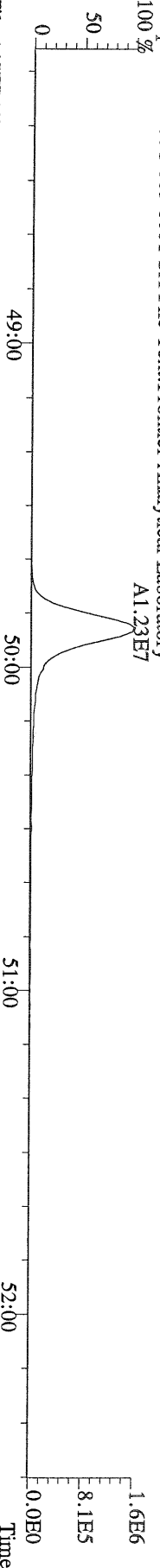
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



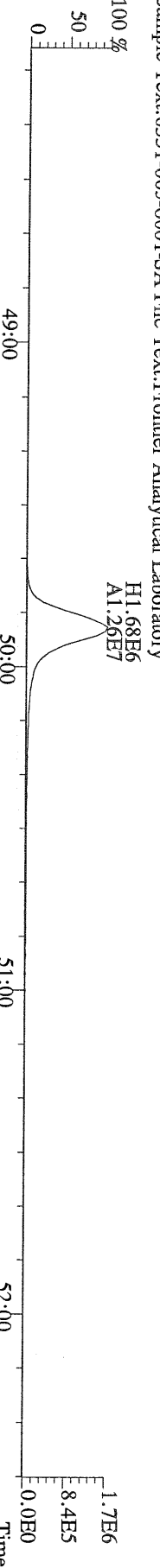
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



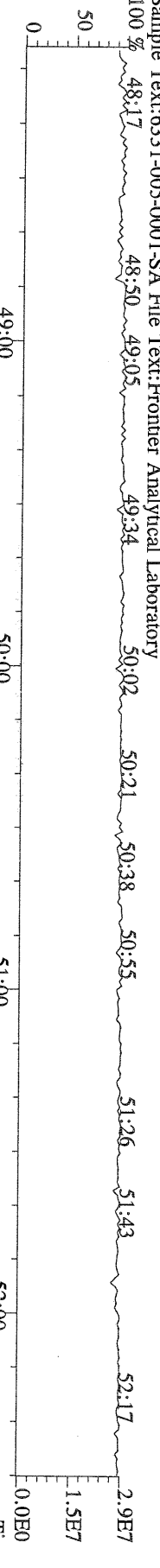
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



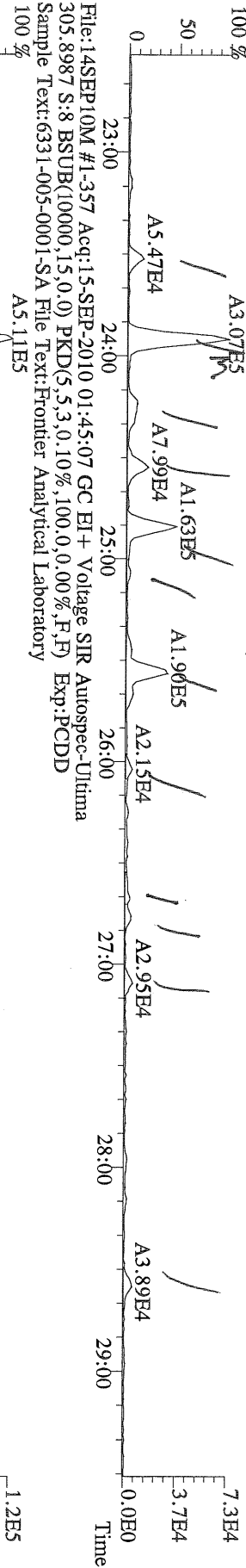
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



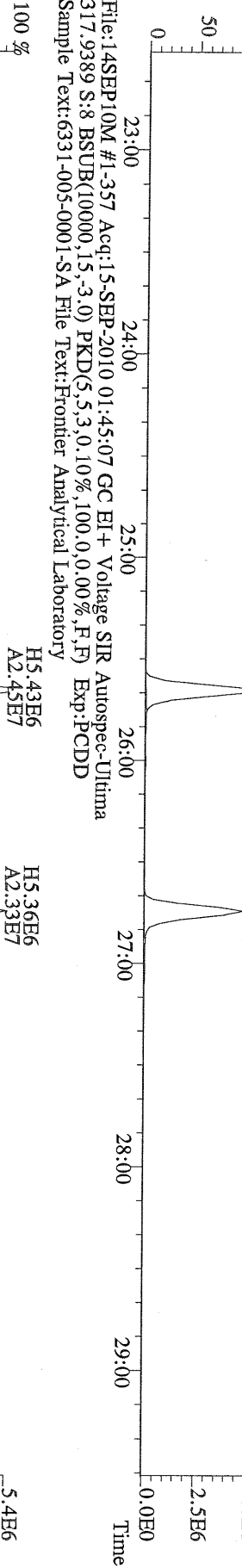
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:8 F:5 Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



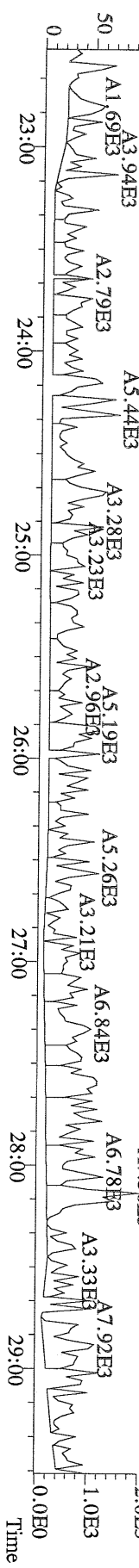
File:14SEP10M #1-357 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Utlima  
303.9016 S:8 BSUB(10000,15,-3.0) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



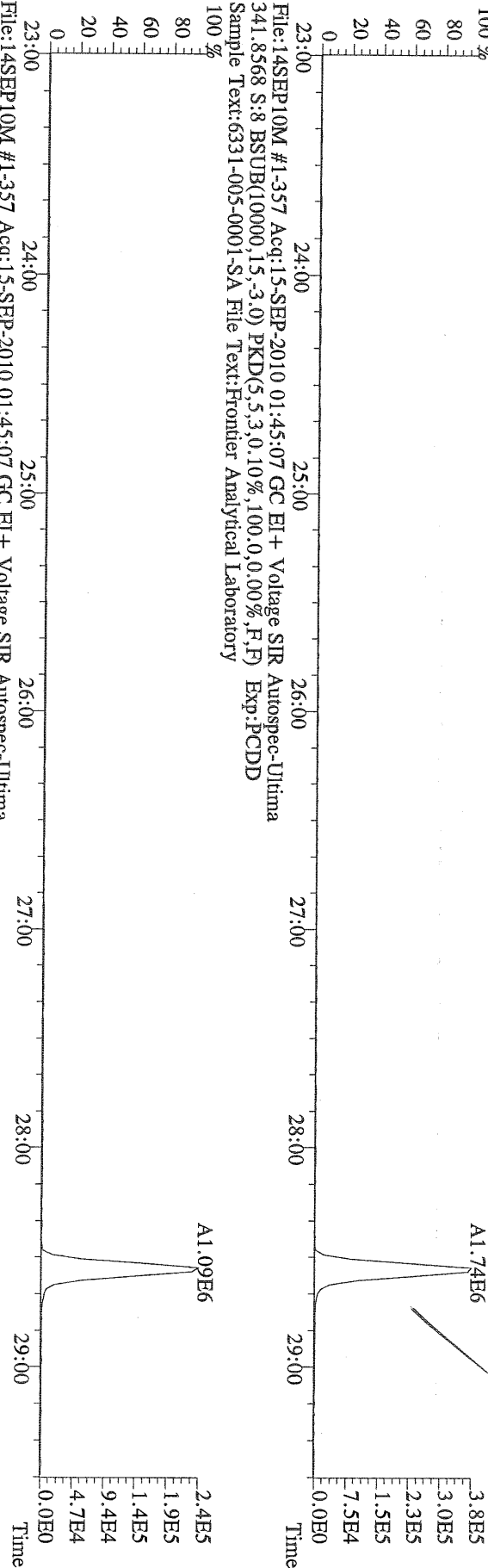
File:14SEP10M #1-357 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Utlima  
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



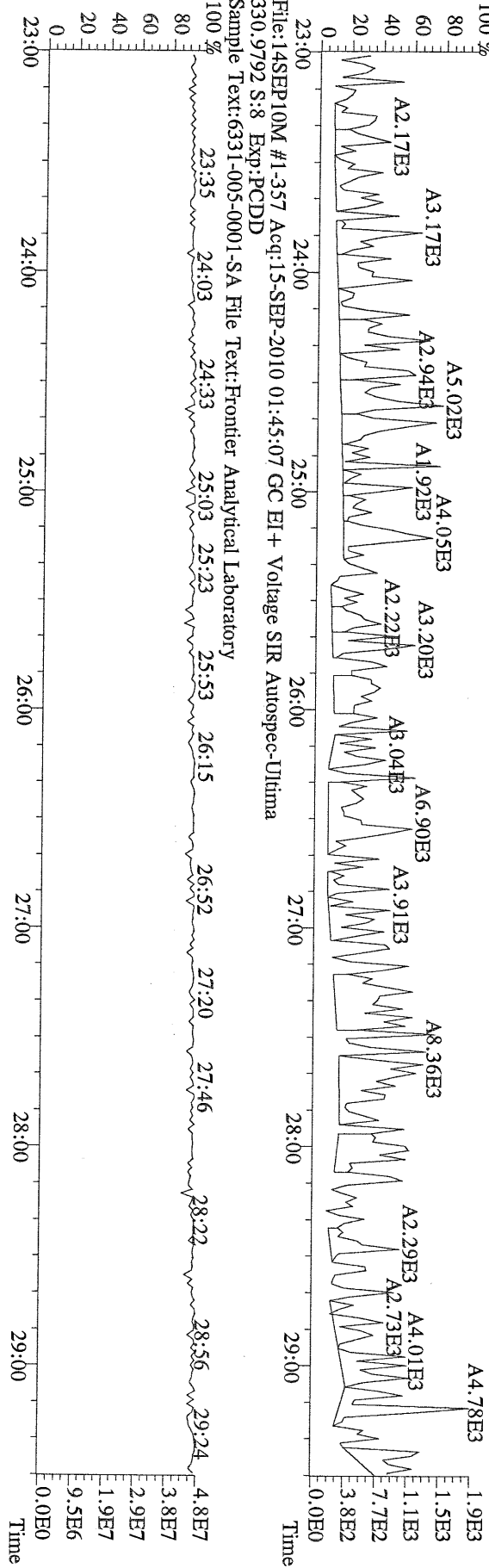
File:14SEP10M #1-357 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Utlima  
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



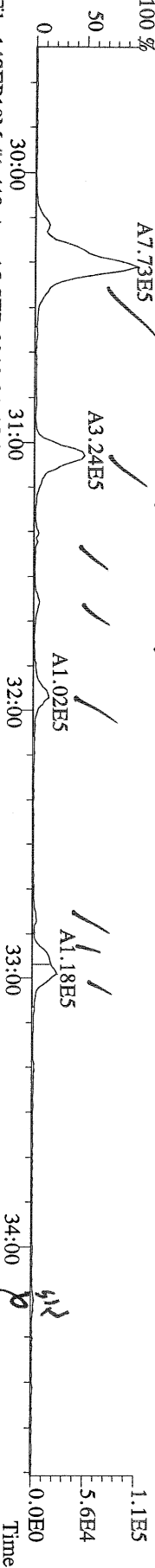
File:14SEP10M #1-357 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



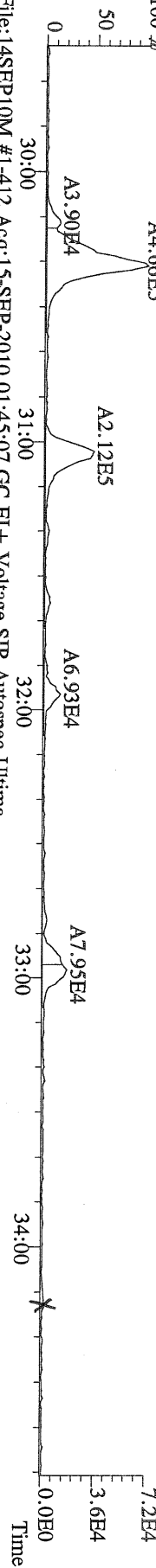
File:14SEP10M #1-357 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



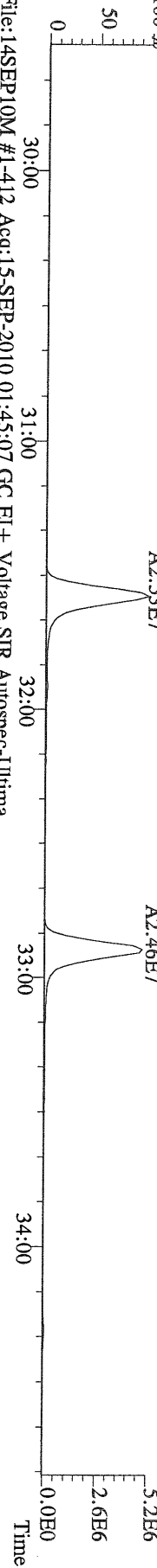
File:14SEP10M #1-412 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



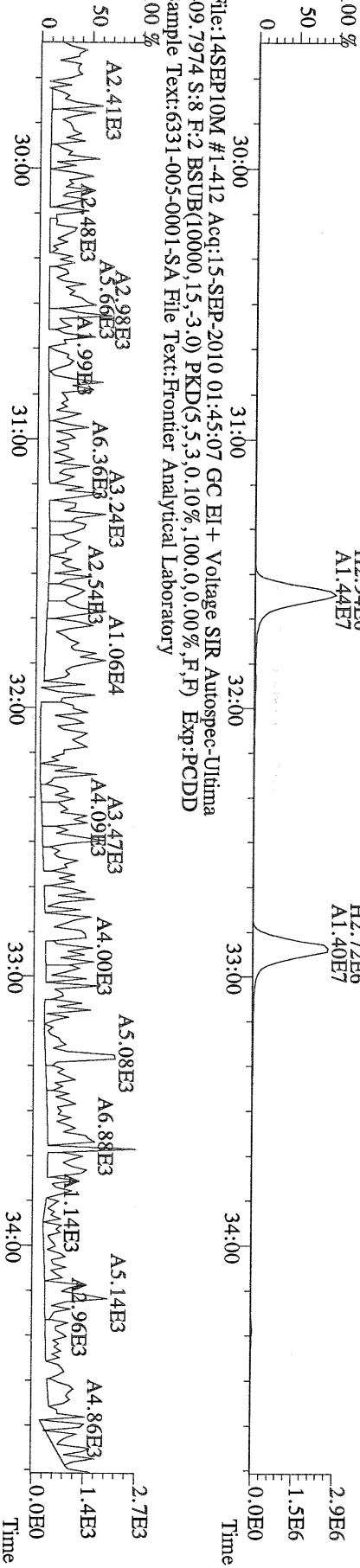
File:14SEP10M #1-412 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



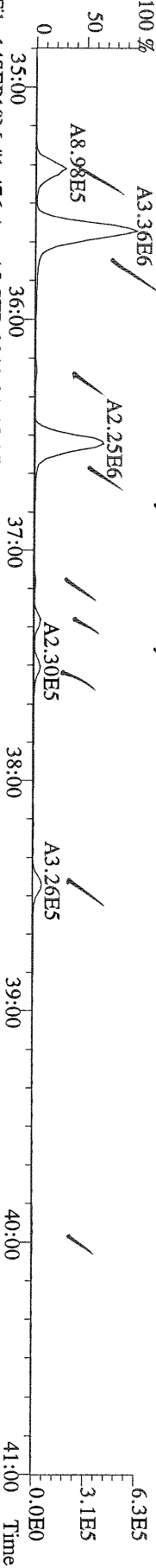
File:14SEP10M #1-412 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



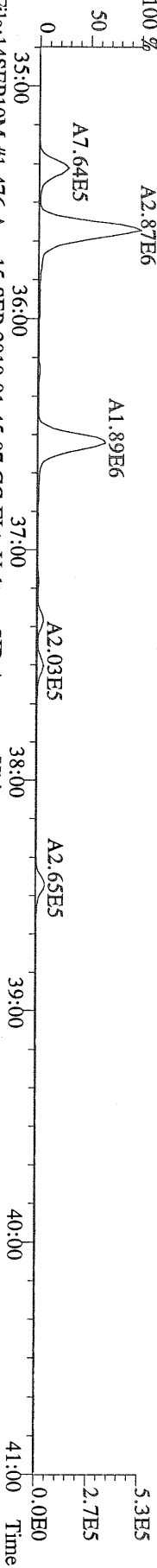
File:14SEP10M #1-412 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



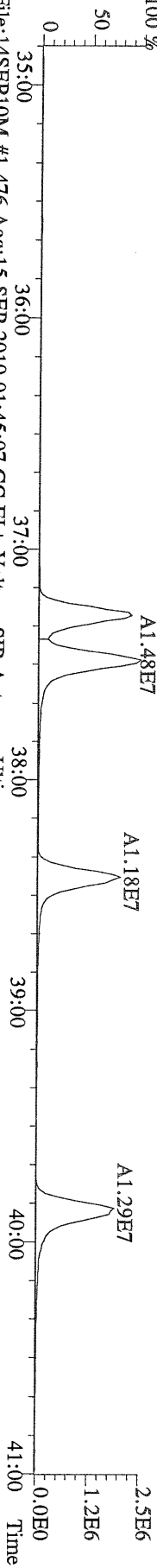
File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



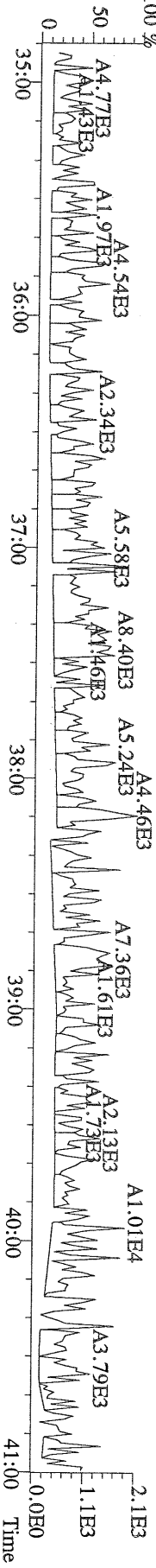
File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



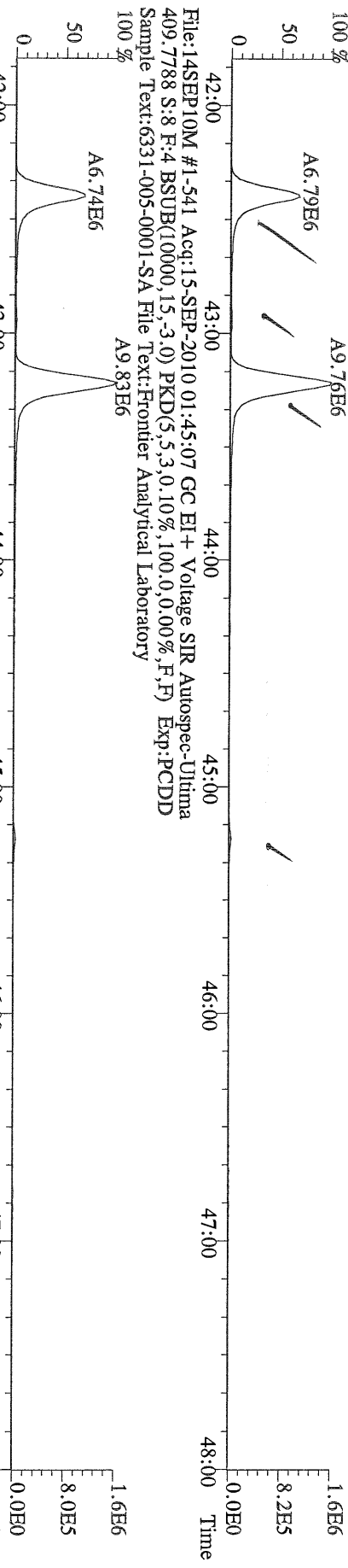
File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



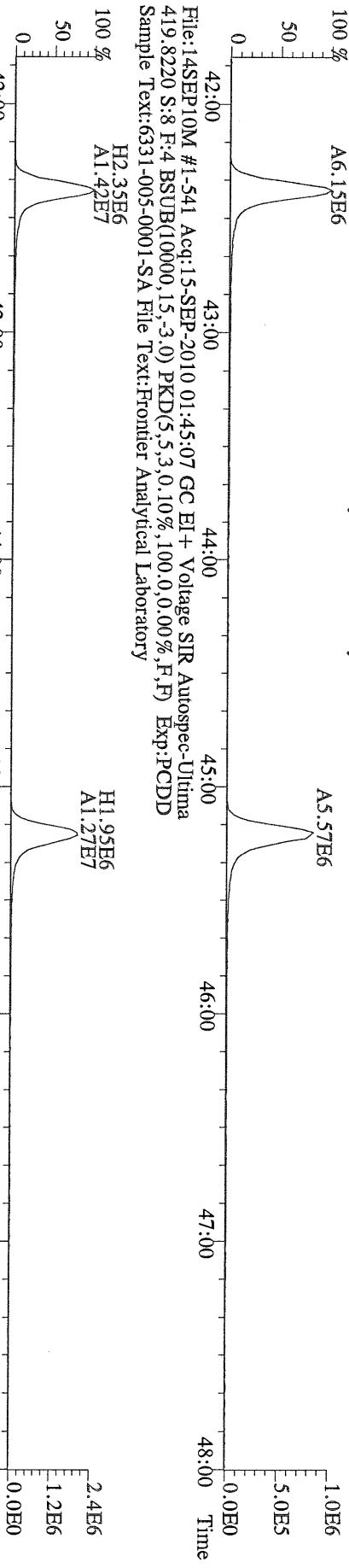
File:14SEP10M #1-476 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



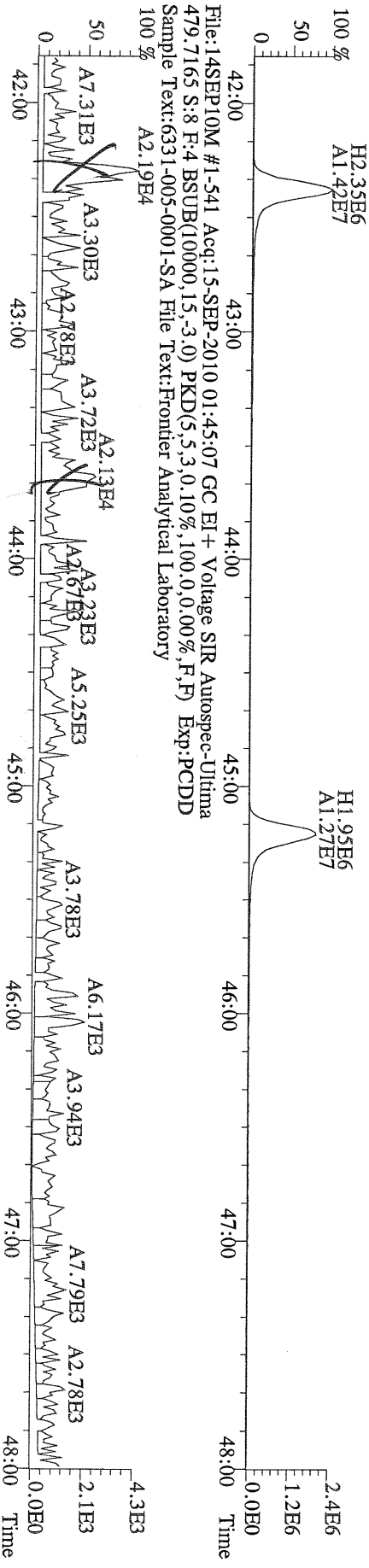
File:14SEP10M #1-541 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-541 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

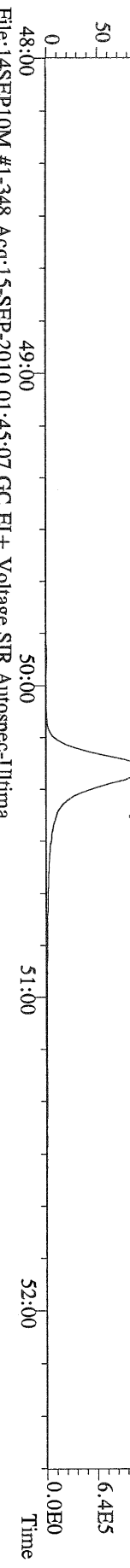


File:14SEP10M #1-541 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

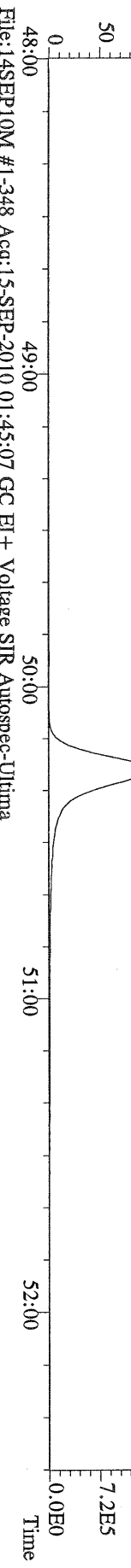


File:14SEP10M #1-541 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory

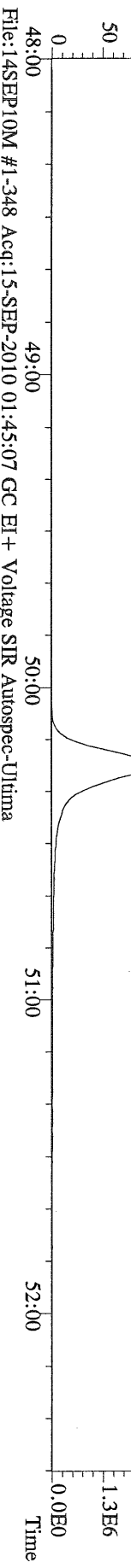
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



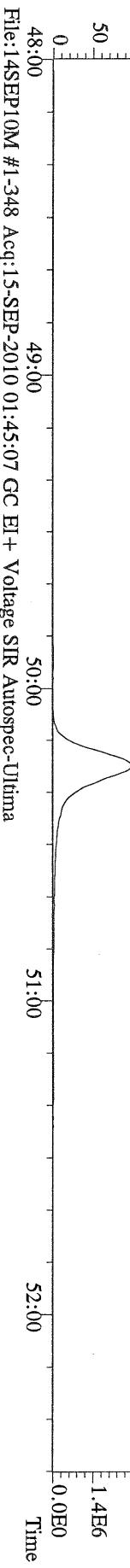
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



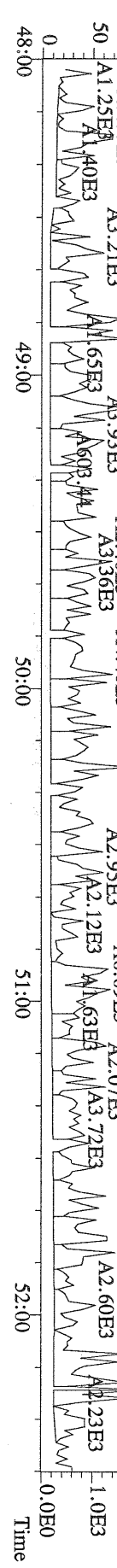
File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory




File:14SEP10M #1-348 Acq:15-SEP-2010 01:45:07 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6331-006-0001-SA      Filename: 14SEP10M      Sam:9      Acquired: 15-SEP-10 02:40:26      ICal: PCDDFAL3-8-23-10  
 Client ID: PSB16-0-0.5-082510      ConCal: ST091410M1      EndCal: ST091410M2  
 Results: 6331      GC Column: DB5      Amount: 4.990      NATO 1989 Tox: 241

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		205 DL	
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	5.39e+05	0.74 y	27:31	1.11	9.63		2.50	-	*	
1,2,3,7,8-PeCDD	2.30e+06	1.36 y	33:20	1.10	38.1		2.50	-	*	
1,2,3,4,7,8-HxCDD	2.71e+06	1.38 y	38:42	1.37	45.5		2.50	-	*	
1,2,3,6,7,8-HxCDD	1.02e+07	1.39 y	38:52	1.37	185		2.50	-	*	
1,2,3,7,8,9-HxCDD	6.96e+06	1.38 y	39:19	1.36	122		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	3.65e+08	0.88 y	44:19	1.45	5820		2.50	-	*	
OCDD	2.63e+09	0.96 y	49:59	1.43	65300		2.50	-	*	
2,3,7,8-TCDF	7.58e+05	0.66 y	26:46	1.50	6.47		2.50	-	*	
1,2,3,7,8-PeCDF	9.79e+05	1.50 y	31:36	0.94	14.1		2.50	-	*	
2,3,4,7,8-PeCDF	1.37e+06	1.46 y	32:56	0.94	20.6		2.50	-	*	
1,2,3,4,7,8-HxCDF	4.28e+06	1.18 y	37:18	0.93	65.4		2.50	-	*	
1,2,3,6,7,8-HxCDF	3.20e+06	1.26 y	37:31	0.82	43.6		2.50	-	*	
2,3,4,6,7,8-HxCDF	3.22e+06	1.18 y	38:27	0.92	50.0		2.50	-	*	
1,2,3,7,8,9-HxCDF	6.10e+05	1.25 y	39:57	1.00	7.95		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	9.96e+07	1.01 y	42:25	1.39	1780		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	2.66e+06	1.02 y	45:14	1.36	58.9		2.50	-	*	
OCDF	2.40e+08	0.89 y	50:19	0.79	6940		2.50	-	*	
									Rec	
13C-2,3,7,8-TCDD	2.02e+07	0.86 y	27:30	1.02	300				75.0	
13C-1,2,3,7,8-PeCDD	2.20e+07	1.77 y	33:19	0.84	399				99.5	
13C-1,2,3,4,7,8-HxCDD	1.74e+07	1.23 y	38:41	1.07	296				74.0	
13C-1,2,3,6,7,8-HxCDD	1.62e+07	1.23 y	38:51	1.01	292				73.0	
13C-1,2,3,4,6,7,8-HpCDD	1.73e+07	0.94 y	44:18	0.86	371				92.5	
13C-OCDD	2.25e+07	0.97 y	49:58	0.55	753				93.9	
13C-2,3,7,8-TCDF	3.12e+07	0.88 y	26:45	0.99	304				75.8	
13C-1,2,3,7,8-PeCDF	2.96e+07	1.77 y	31:34	0.84	341				85.1	
13C-2,3,4,7,8-PeCDF	2.85e+07	1.74 y	32:54	0.81	339				84.6	
13C-1,2,3,4,7,8-HxCDF	2.83e+07	0.46 y	37:18	1.85	279				69.7	
13C-1,2,3,6,7,8-HxCDF	3.59e+07	0.46 y	37:29	2.54	259				64.7	
13C-2,3,4,6,7,8-HxCDF	2.81e+07	0.46 y	38:27	2.01	255				63.7	
13C-1,2,3,7,8,9-HxCDF	3.09e+07	0.46 y	39:53	2.03	278				69.4	
13C-1,2,3,4,6,7,8-HpCDF	1.61e+07	0.44 y	42:23	1.11	266				66.4	
13C-1,2,3,4,7,8,9-HpCDF	1.34e+07	0.44 y	45:13	0.80	304				75.9	
13C-OCDF	3.53e+07	0.97 y	50:19	1.08	597				74.5	
37Cl-2,3,7,8-TCDD	5.47e+06		27:31	0.69	122				75.9	
13C-1,2,3,4-TCDD	2.63e+07	0.87 y	26:54	-	11.7					
13C-1,2,3,4-TCDF	4.15e+07	0.87 y	25:39	-	11.5					
13C-1,2,3,7,8,9-HxCDD	2.19e+07	1.26 y	39:17	-	15.9					
							Fac Noise-1	Noise-2	DL	#Hom
Total Tetra-Dioxins	1.20e+07		24:31	1.11	215		2.50	-	*	16
Total Penta-Dioxins	2.73e+07		30:21	1.10	452		2.50	-	*	10
Total Hexa-Dioxins	9.53e+07		36:14	1.37	1670		2.50	-	*	8
Total Hepta-Dioxins	7.35e+08		42:55	1.45	11700		2.50	-	*	2
Total Tetra-Furans	2.96e+07		23:10	1.50	252		2.50	-	*	22
1st Fn. Tot Penta-Furans	7.20e+06		28:33	0.94	106		2.50	-	*	PeCDF 14/20/10
Total Penta-Furans	2.46e+07		30:11	0.94	363		2.50	-	*	468 15
Total Hexa-Furans	8.77e+07		35:21	0.91	1260	D,M	2.50	-	*	465 14
Total Hepta-Furans	3.08e+08		42:25	1.38	5890		2.50	-	*	4

*OK F DB5 9/17/10*

Analyst: 

Date: *9/15/10*



Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 1

Acquired: 15-SEP-10 02:40:26

Total Concentration: 215

Unnamed Concentration: 205.533

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:31	6.76e+05	8.68e+05	0.78 y	1.54e+06	27.6	
24:47	4.10e+05	5.21e+05	0.79 y	9.32e+05	16.7	
25:06	3.49e+05	4.64e+05	0.75 y	8.13e+05	14.5	
25:43	2.60e+05	3.28e+05	0.79 y	5.88e+05	10.5	
25:53	6.14e+05	7.94e+05	0.77 y	1.41e+06	25.2	
26:04	4.44e+05	5.74e+05	0.77 y	1.02e+06	18.2	
26:13	1.99e+05	2.50e+05	0.79 y	4.49e+05	8.04	
26:25	1.52e+05	2.02e+05	0.75 y	3.54e+05	6.33	
26:36	3.32e+05	4.19e+05	0.79 y	7.51e+05	13.4	
26:53	5.17e+05	6.77e+05	0.76 y	1.19e+06	21.4	
27:16	3.06e+05	4.01e+05	0.76 y	7.07e+05	12.6	
27:24	1.60e+05	2.13e+05	0.75 y	3.74e+05	6.68	
27:31	2.28e+05	3.10e+05	0.74 y	5.39e+05	9.63	2,3,7,8-TCDD
27:49	2.93e+05	3.69e+05	0.80 y	6.62e+05	11.8	
27:56	8.63e+04	1.16e+05	0.75 y	2.02e+05	3.61	
28:27	2.08e+05	2.92e+05	0.71 y	5.00e+05	8.93	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 2

Acquired: 15-SEP-10 02:40:26

Total Concentration: 452

Unnamed Concentration: 413.818

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	3.66e+06	2.39e+06	1.53 y	6.05e+06	99.9	
30:57	1.54e+06	1.00e+06	1.53 y	2.54e+06	42.0	
31:34	1.60e+06	1.07e+06	1.49 y	2.66e+06	44.1	
31:48	1.50e+06	1.01e+06	1.49 y	2.52e+06	41.6	
31:57	1.61e+06	1.05e+06	1.52 y	2.66e+06	44.0	
32:14	2.46e+06	1.65e+06	1.48 y	4.11e+06	67.9	
32:43	1.24e+06	8.31e+05	1.49 y	2.07e+06	34.3	
33:20	1.33e+06	9.75e+05	1.36 y	2.30e+06	38.1	1,2,3,7,8-PeCDD
33:26	5.83e+05	3.36e+05	1.73 y	9.19e+05	15.2	
33:54	8.91e+05	6.12e+05	1.46 y	1.50e+06	24.8	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 3

Acquired: 15-SEP-10 02:40:26

Total Concentration: 1670

Unnamed Concentration: 1315.210

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	1.32e+07	9.70e+06	1.37 y	2.29e+07	400	
37:10	6.47e+06	4.67e+06	1.38 y	1.11e+07	194	
37:36	2.02e+07	1.45e+07	1.39 y	3.48e+07	607	
37:47	2.13e+06	1.61e+06	1.32 y	3.74e+06	65.2	
38:42	1.57e+06	1.14e+06	1.38 y	2.71e+06	45.5	1,2,3,4,7,8-HxCDD
38:52	5.96e+06	4.29e+06	1.39 y	1.02e+07	185	1,2,3,6,7,8-HxCDD
39:09	1.60e+06	1.17e+06	1.36 y	2.78e+06	48.5	
39:19	4.04e+06	2.92e+06	1.38 y	6.96e+06	122	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 4

Acquired: 15-SEP-10 02:40:26

Total Concentration: 11700

Unnamed Concentration: 5879.381

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:55	1.75e+08	1.95e+08	0.90 y	3.69e+08	5880	
44:19	1.72e+08	1.94e+08	0.88 y	3.65e+08	5820	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 1

Acquired: 15-SEP-10 02:40:26

Total Concentration: 252

Unnamed Concentration: 245.918

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
23:10	2.32e+05	2.93e+05 0.79 y	5.25e+05	4.48	
23:31	3.41e+05	4.99e+05 0.68 y	8.40e+05	7.17	
23:56	8.15e+05	1.20e+06 0.68 y	2.02e+06	17.2	
24:18	1.55e+06	2.34e+06 0.66 y	3.89e+06	33.2	
24:33	1.04e+06	1.54e+06 0.68 y	2.58e+06	22.0	
24:51	5.13e+05	7.71e+05 0.66 y	1.28e+06	11.0	
24:57	2.56e+05	3.57e+05 0.72 y	6.13e+05	5.23	
25:04	2.42e+05	3.48e+05 0.70 y	5.90e+05	5.03	
25:26	8.66e+05	1.32e+06 0.66 y	2.18e+06	18.6	
25:33	6.01e+05	9.14e+05 0.66 y	1.51e+06	12.9	
25:40	2.03e+06	3.05e+06 0.66 y	5.08e+06	43.4	
26:01	4.07e+05	5.79e+05 0.70 y	9.85e+05	8.41	
26:16	2.80e+05	4.16e+05 0.67 y	6.95e+05	5.94	
26:24	4.57e+05	6.68e+05 0.68 y	1.13e+06	9.61	
26:36	6.85e+05	1.01e+06 0.68 y	1.69e+06	14.5	
26:39	5.22e+05	7.90e+05 0.66 y	1.31e+06	11.2	
26:46	3.00e+05	4.57e+05 0.66 y	7.58e+05	6.47	2,3,7,8-TCDF
27:06	6.70e+05	9.69e+05 0.69 y	1.64e+06	14.0	
27:19	2.08e+04	2.83e+04 0.74 y	4.91e+04	0.419	
27:36	1.53e+04	2.11e+04 0.73 y	3.65e+04	0.311	
28:34	5.25e+04	6.72e+04 0.78 y	1.20e+05	1.02	
28:40	1.62e+04	1.94e+04 0.83 y	3.56e+04	0.304	

Totals class: 1st Fn. Tot Penta-Furans      Entry #: 43

Run: 16      File: 14SEP10M      S: 9 I: 1 F: 1  
Acquired: 15-SEP-10 02:40:26

Total Concentration: 106      Unnamed Concentration: 105.955

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:33	4.45e+06	2.75e+06	1.61 y	7.20e+06	106	

Totals class: Total Penta-Furans

Entry #: 44

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 2

Acquired: 15-SEP-10 02:40:26

Total Concentration: 363

Unnamed Concentration: 327.886

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:11	1.87e+06	1.15e+06	1.63 y	3.01e+06	44.3	
30:20	3.81e+06	2.54e+06	1.50 y	6.35e+06	93.4	
30:49	2.46e+05	1.60e+05	1.54 y	4.06e+05	5.97	
31:03	2.19e+06	1.38e+06	1.58 y	3.57e+06	52.6	
31:10	1.02e+06	7.02e+05	1.45 y	1.72e+06	25.3	
31:21	1.21e+06	7.97e+05	1.52 y	2.01e+06	29.5	
31:36	5.87e+05	3.92e+05	1.50 y	9.79e+05	14.1	1,2,3,7,8-PeCDF
31:56	1.31e+06	8.72e+05	1.50 y	2.18e+06	32.1	
32:08	1.01e+05	6.84e+04	1.48 y	1.69e+05	2.49	
32:38	1.03e+05	7.05e+04	1.46 y	1.73e+05	2.55	
32:46	8.76e+05	5.75e+05	1.52 y	1.45e+06	21.4	
32:56	8.11e+05	5.57e+05	1.46 y	1.37e+06	20.6	2,3,4,7,8-PeCDF
32:58	5.07e+05	3.39e+05	1.50 y	8.46e+05	12.4	
33:21	1.60e+05	1.07e+05	1.50 y	2.67e+05	3.92	
34:21	8.31e+04	4.91e+04	1.69 y	1.32e+05	1.95	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 3

Acquired: 15-SEP-10 02:40:26

Total Concentration: 1260

Unnamed Concentration: 1093.115

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:21	4.25e+06	3.61e+06	1.18 y	7.86e+06	112	
35:37	1.33e+07	1.12e+07	1.19 y	2.46e+07	351	
35:57	3.42e+05	2.75e+05	1.25 y	6.17e+05	8.83	
36:13	7.64e+05	6.34e+05	1.20 y	1.40e+06	20.0	
36:32	2.04e+07	1.69e+07	1.21 y	3.73e+07	534	
37:09	1.74e+06	1.45e+06	1.20 y	3.20e+06	45.7	
37:18	2.32e+06	1.96e+06	1.18 y	4.28e+06	65.4	1,2,3,4,7,8-HxCDF
37:31	1.79e+06	1.42e+06	1.26 y	3.20e+06	43.6	1,2,3,6,7,8-HxCDF
37:45	2.28e+05	1.80e+05	1.26 y	4.08e+05	5.84	
37:58	2.74e+05	2.15e+05	1.28 y	4.89e+05	7.00	
38:09	2.02e+05	1.60e+05	1.27 y	3.62e+05	5.18	
38:27	1.74e+06	1.48e+06	1.18 y	3.22e+06	50.0	2,3,4,6,7,8-HxCDF
38:49	1.20e+05	1.01e+05	1.20 y	2.21e+05	3.16	
39:57	3.39e+05	2.71e+05	1.25 y	6.10e+05	7.95	1,2,3,7,8,9-HxCDF



Totals class: Total Hepta-Furans

Entry #: 46

Run: 16

File: 14SEP10M

S: 9 I: 1 F: 4

Acquired: 15-SEP-10 02:40:26

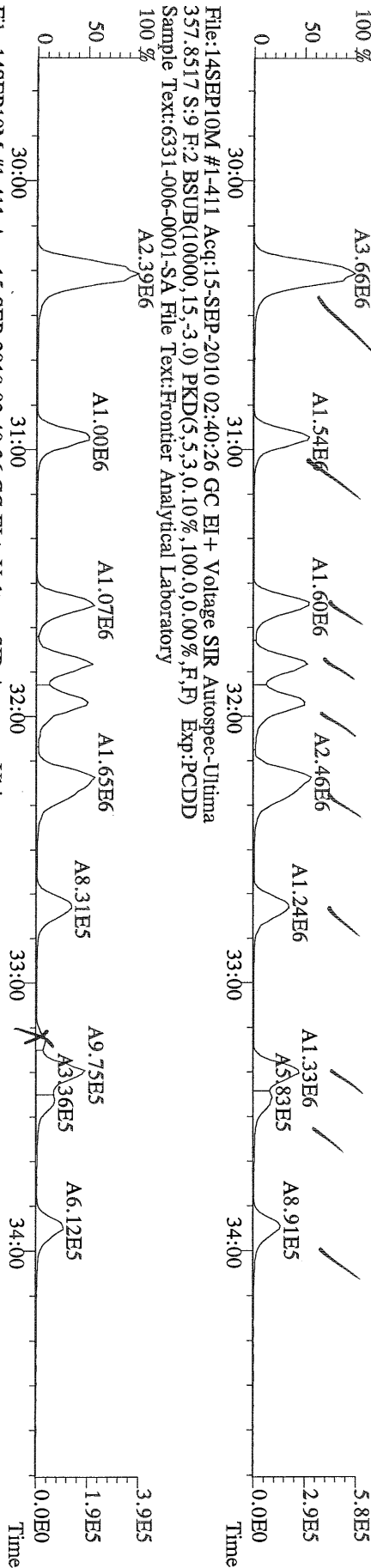
Total Concentration: 5890

Unnamed Concentration: 4053.951

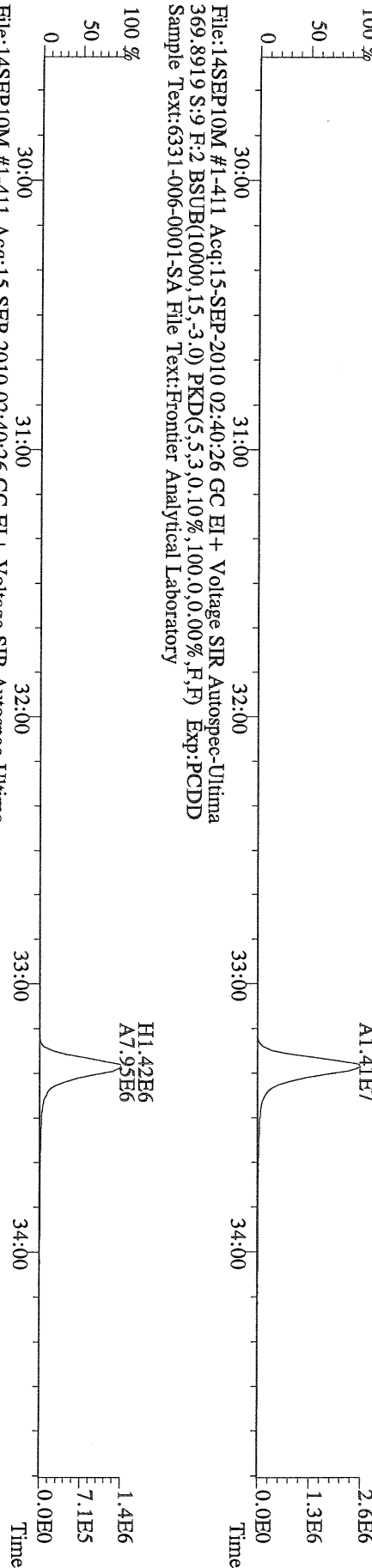
RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:25	5.01e+07	4.96e+07	1.01 y	9.96e+07	1780	1,2,3,4,6,7,8-HpCDF
42:57	9.74e+05	1.00e+06	0.97 y	1.97e+06	39.0	
43:14	1.02e+08	1.01e+08	1.00 y	2.03e+08	4010	
45:14	1.34e+06	1.32e+06	1.02 y	2.66e+06	58.9	1,2,3,4,7,8,9-HpCDF



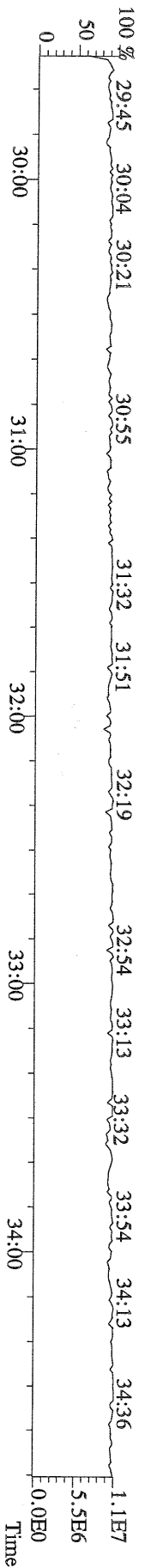
File:14SEP10M #1-411 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:9 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



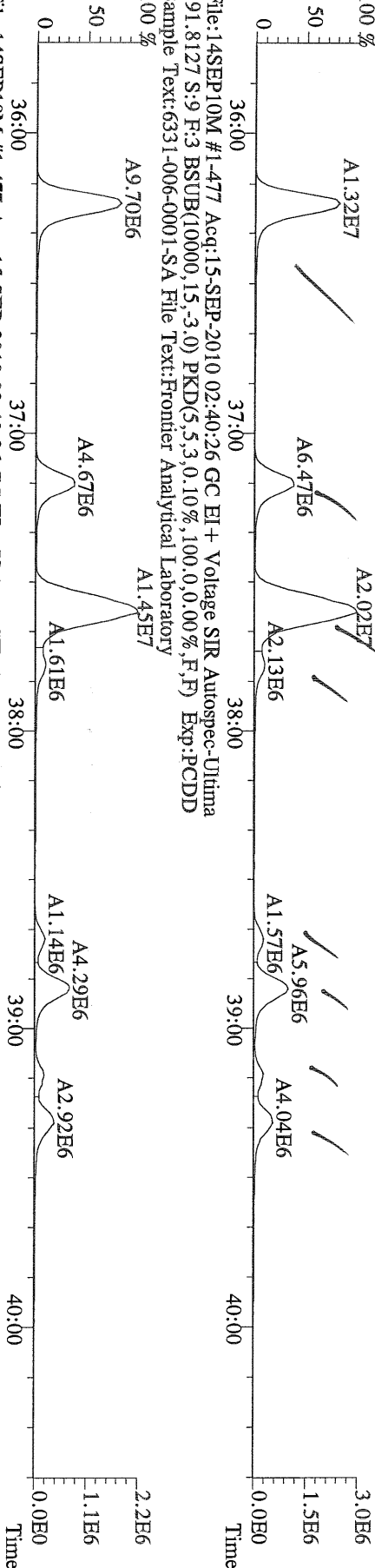
File:14SEP10M #1-411 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:9 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



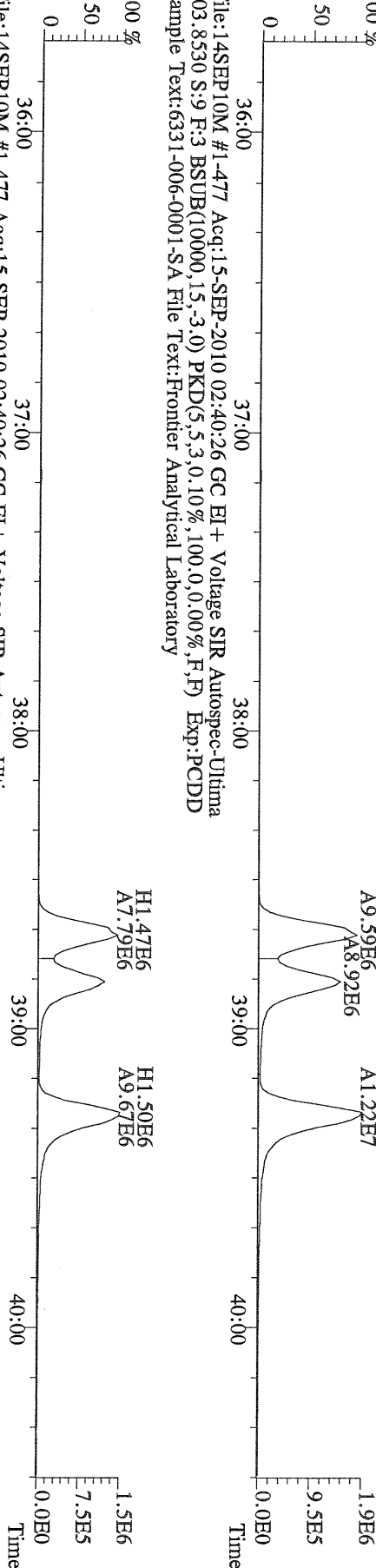
File:14SEP10M #1-411 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:9 F:2 Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



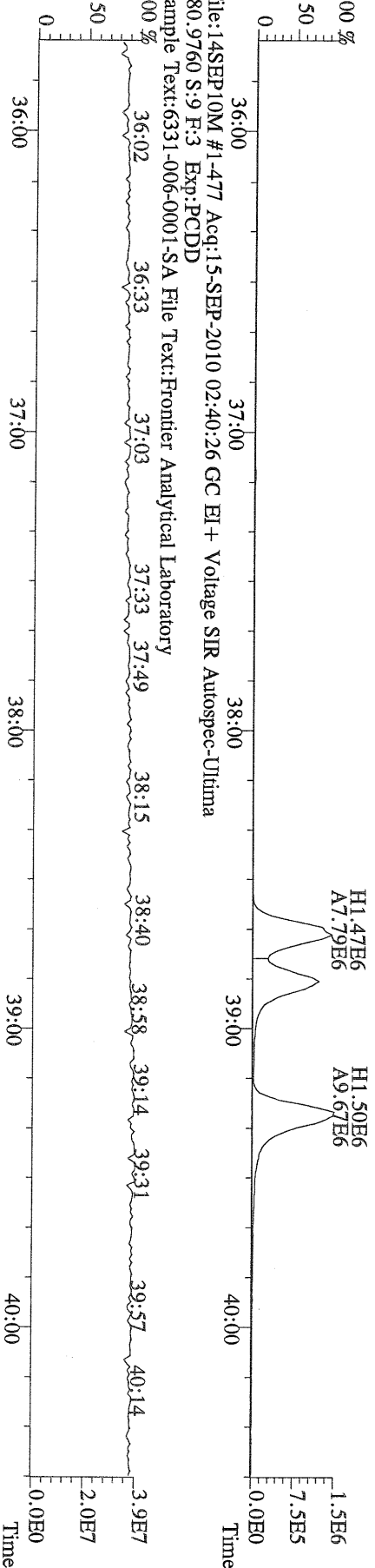
File:14SEP10M #1-477 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



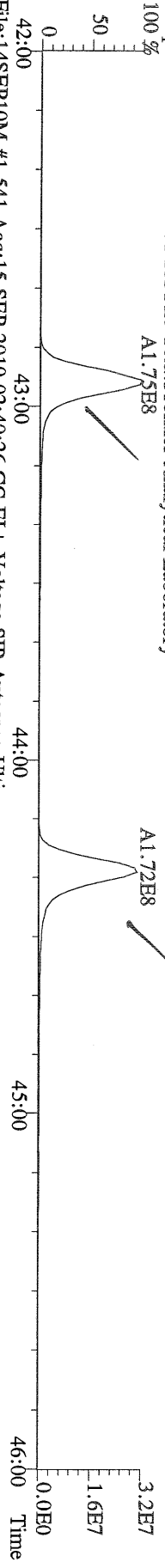
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 401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-477 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



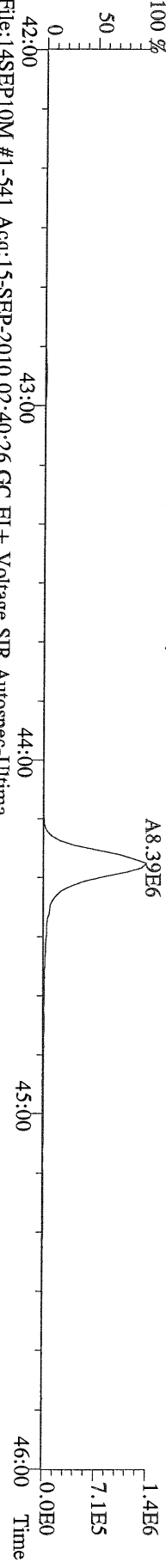
File:14SEP10M #1-541 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



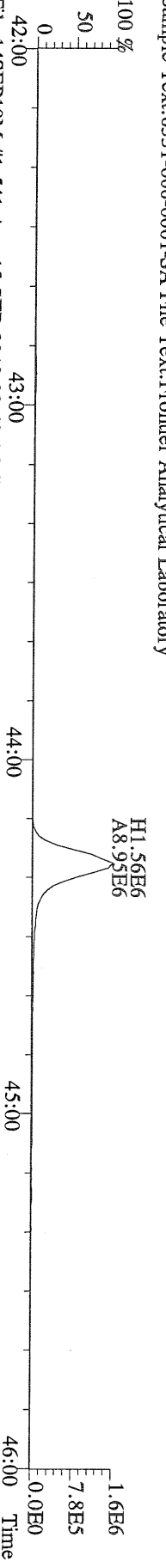
File:14SEP10M #1-541 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



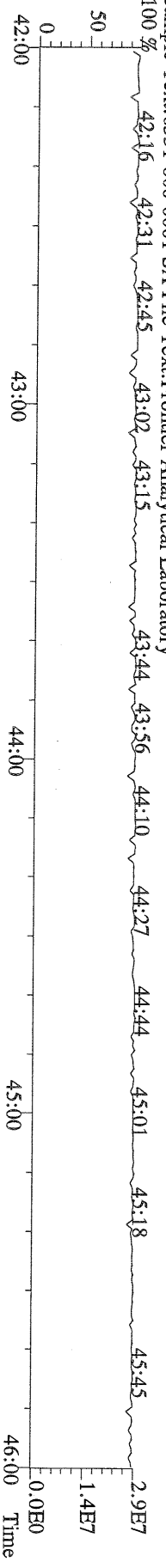
File:14SEP10M #1-541 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



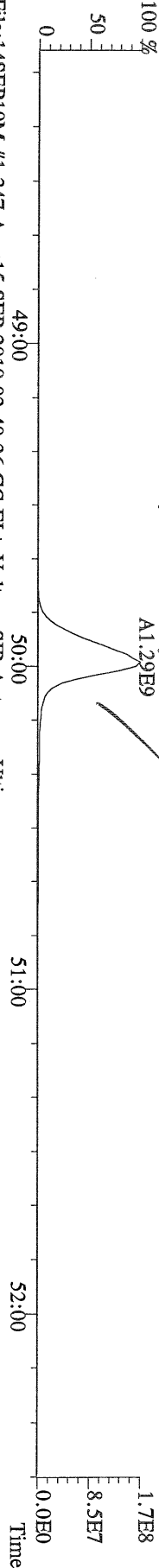
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437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



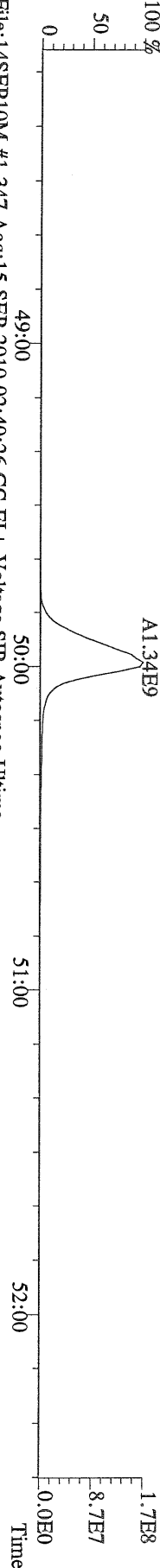
File:14SEP10M #1-541 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:9 F:4 Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



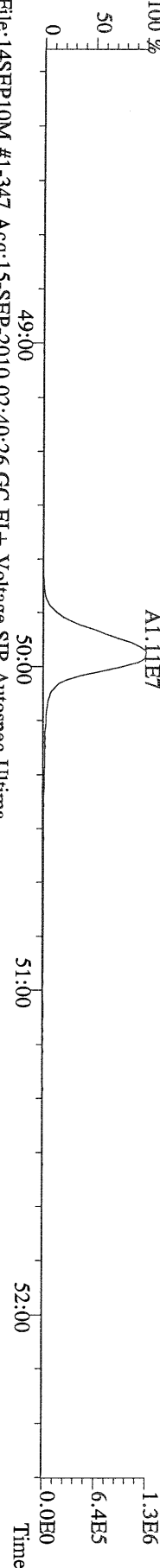
File:14SEP10M #1-347 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



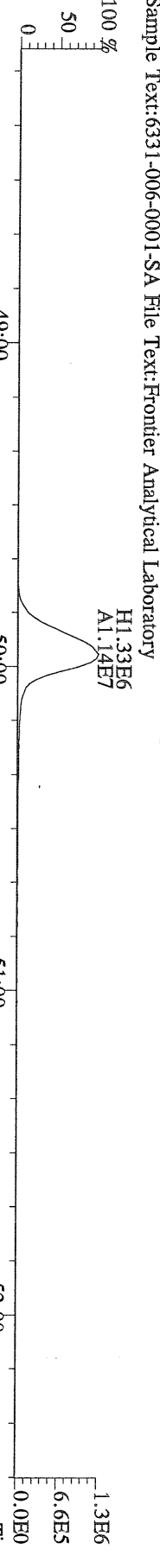
File:14SEP10M #1-347 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



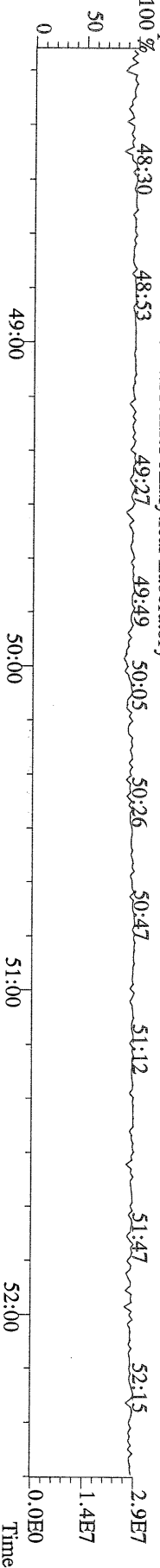
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469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



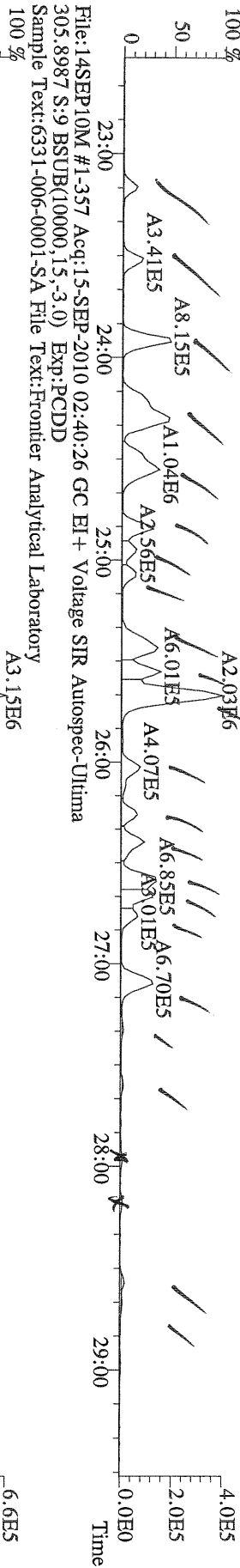
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471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



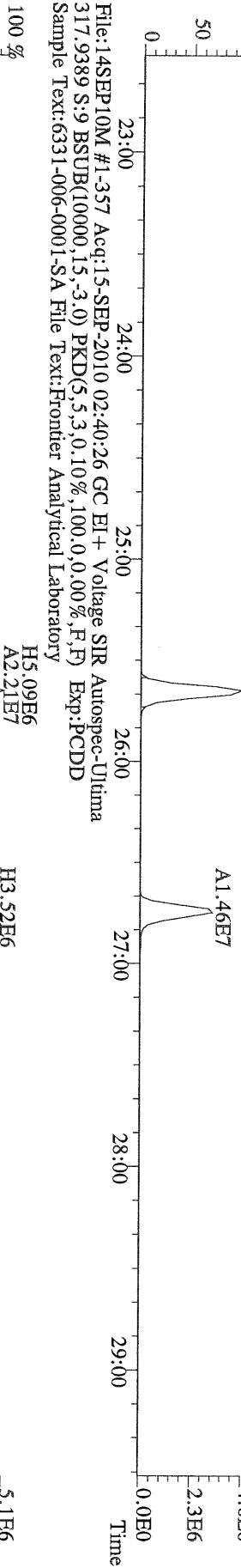
File:14SEP10M #1-347 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:9 F:5 Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



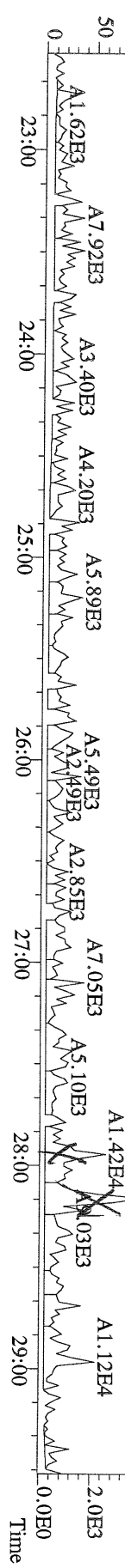
File:14SEP10M #1-357 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:9 BSUB(10000,15,-3.0) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



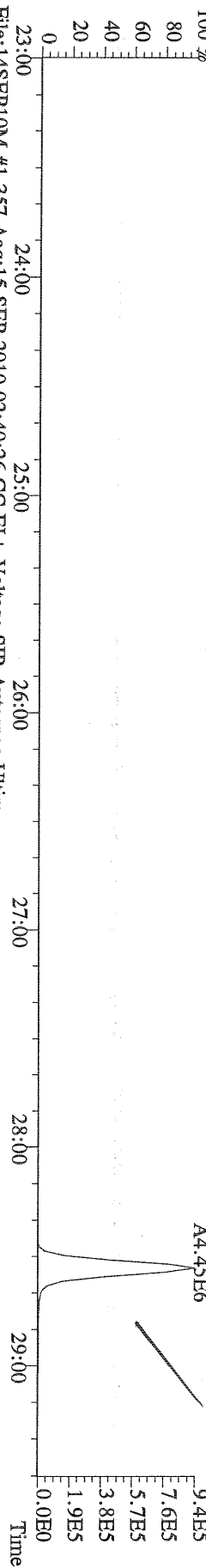
File:14SEP10M #1-357 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:9 BSUB(10000,15,3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



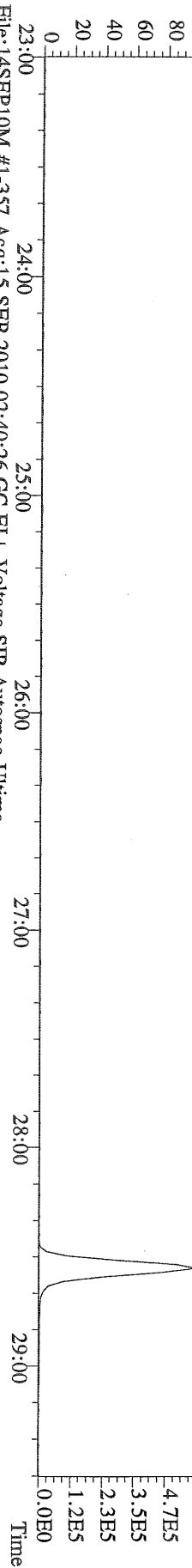
File:14SEP10M #1-357 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



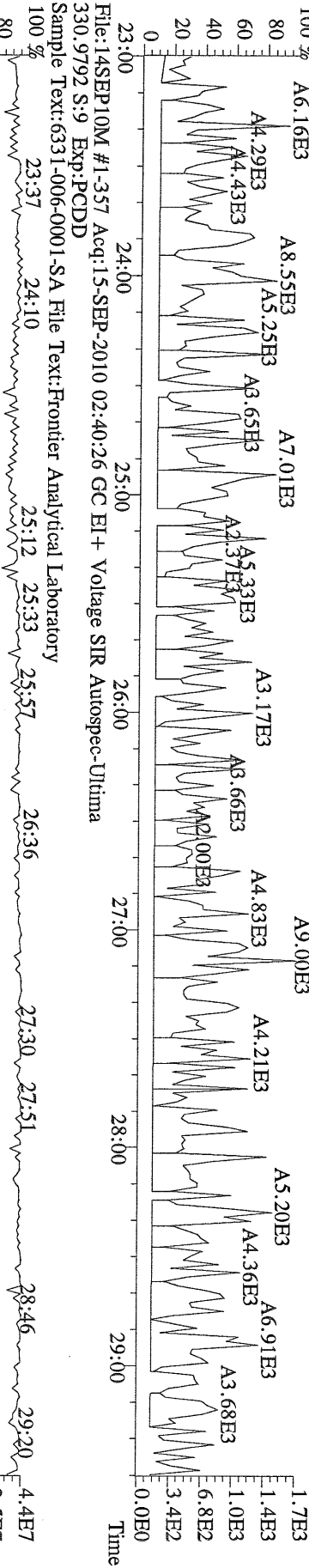
File:14SEP10M #1-357 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-357 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



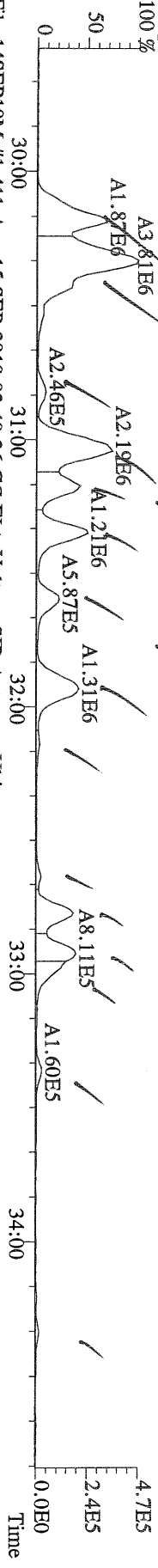
File:14SEP10M #1-357 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



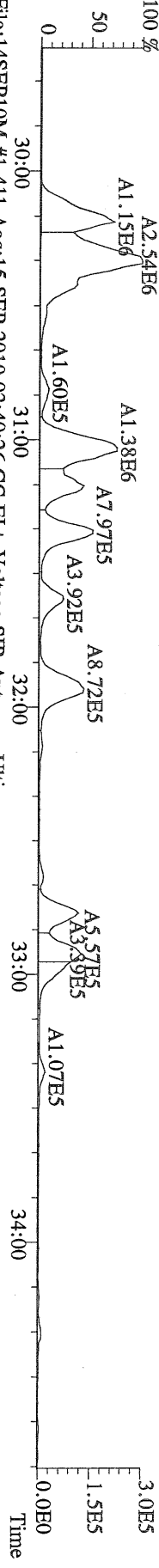
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 330.9792 S:9 Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



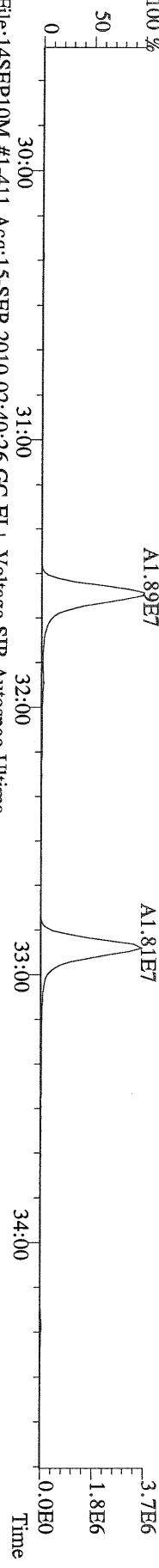
File:14SEP10M #1-411 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



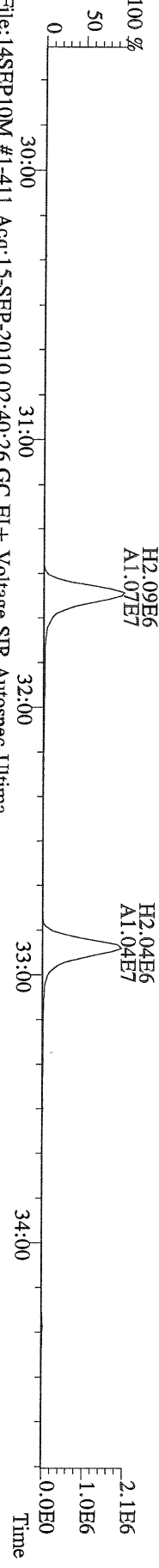
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 341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



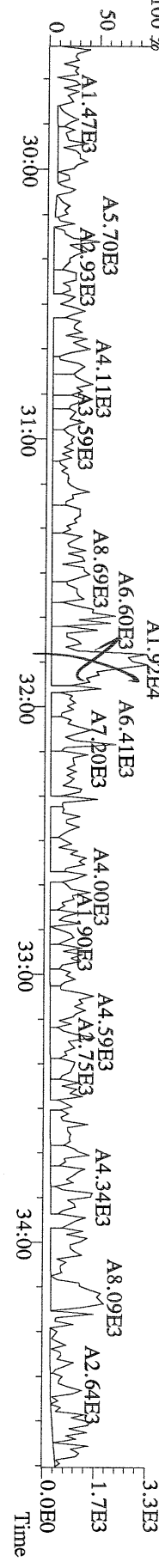
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 351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



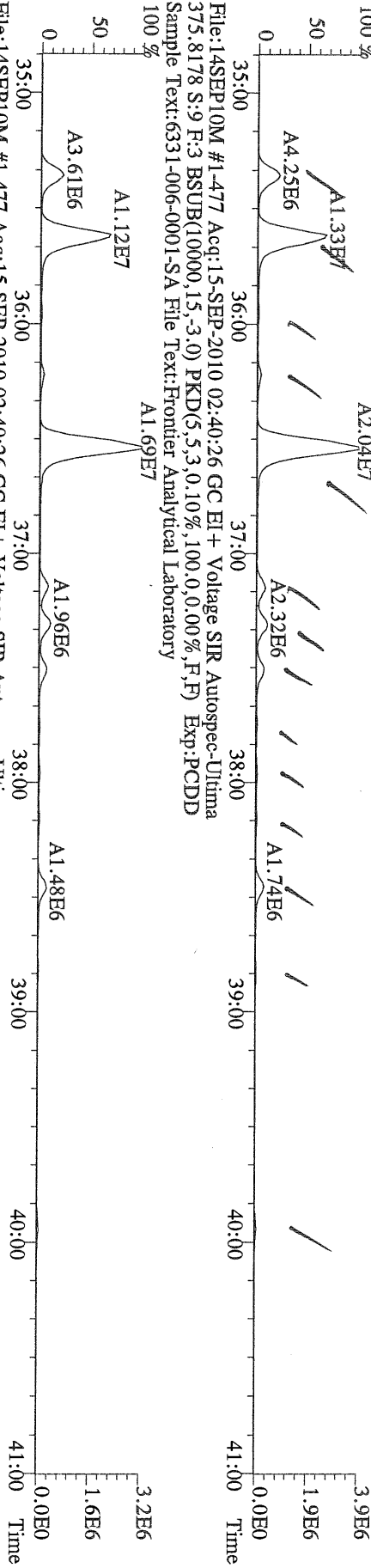
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 409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



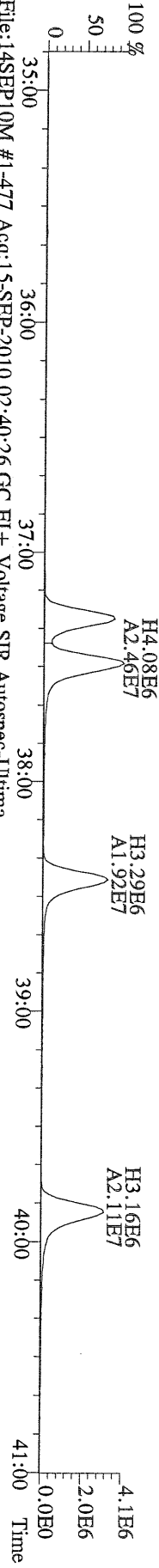
File:14SEP10M #1-411 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



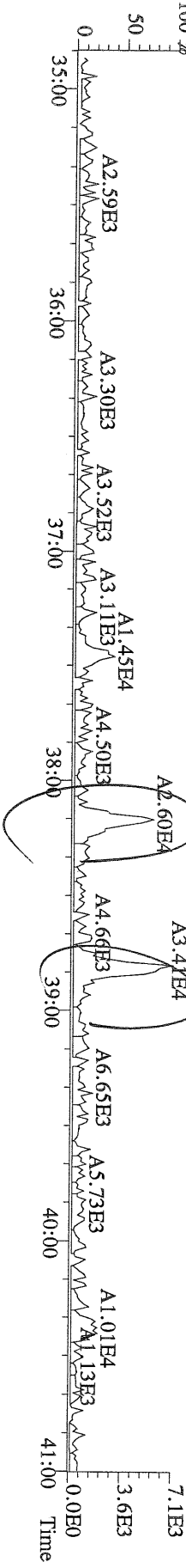
File:14SEP10M #1-477 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



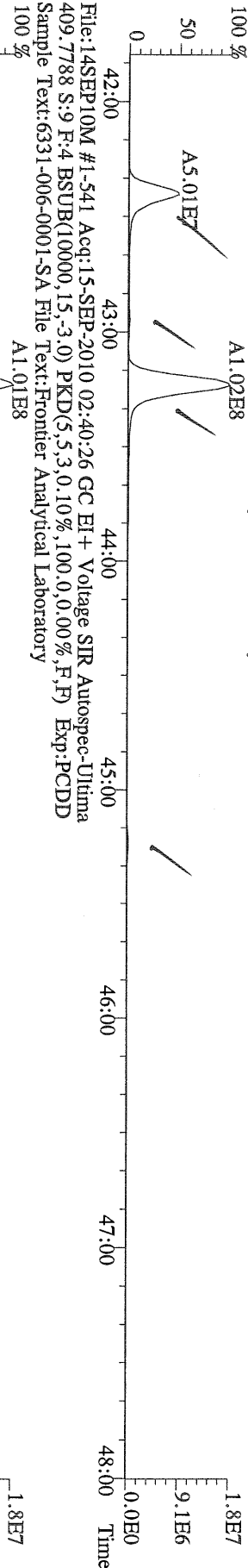
File:14SEP10M #1-477 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



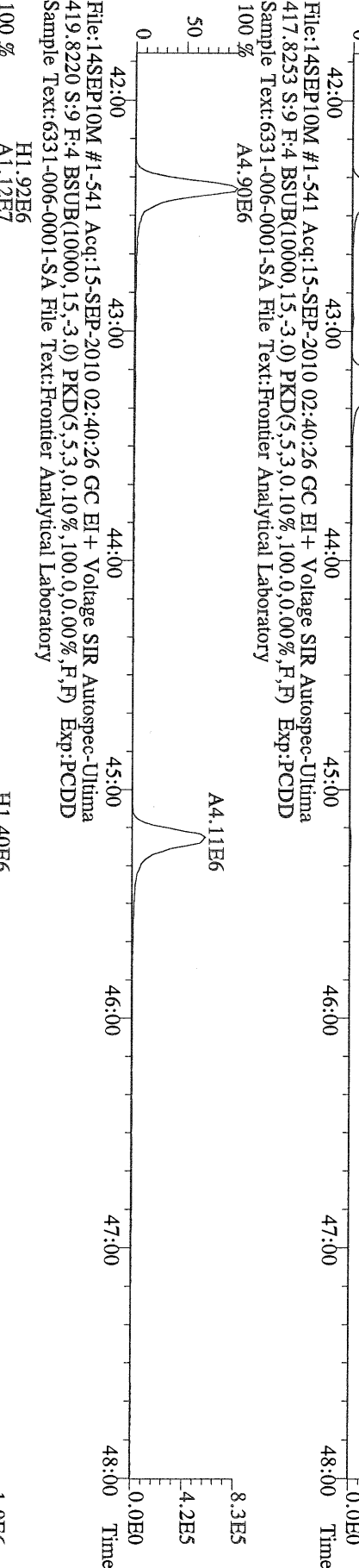
File:14SEP10M #1-477 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



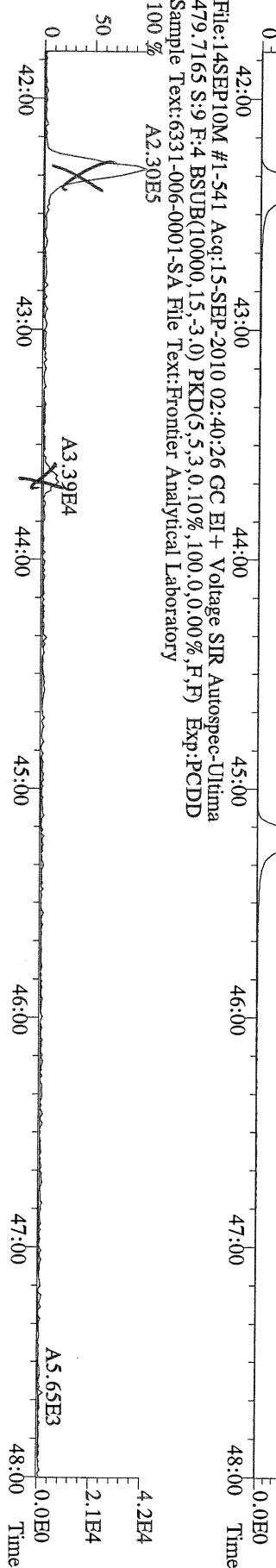
File:14SEP10M #1-541 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory  
100 %



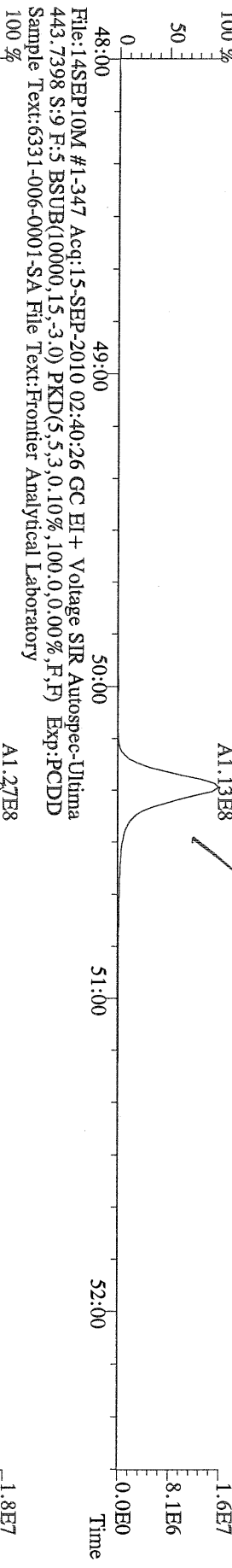
File:14SEP10M #1-541 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory  
100 %



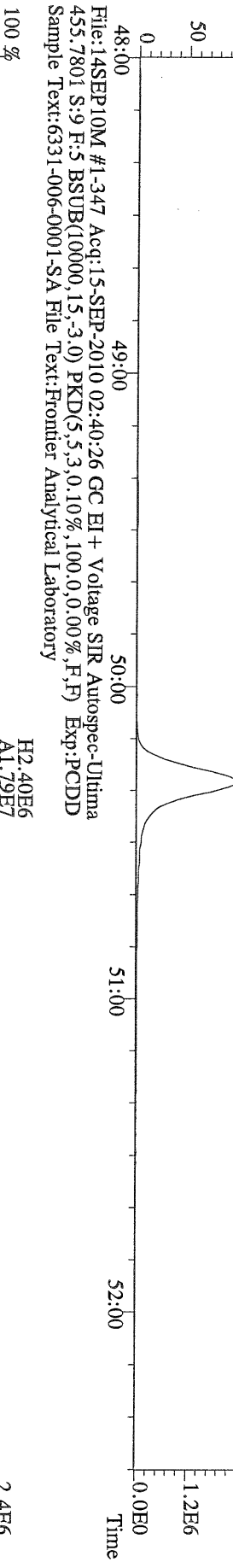
File:14SEP10M #1-541 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory  
100 %



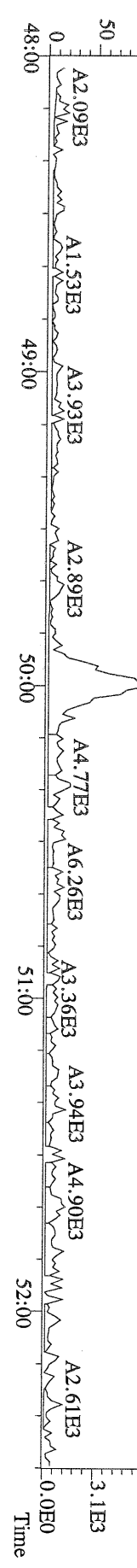
File:14SEP10M #1-347 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:15-SEP-2010 02:40:26 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



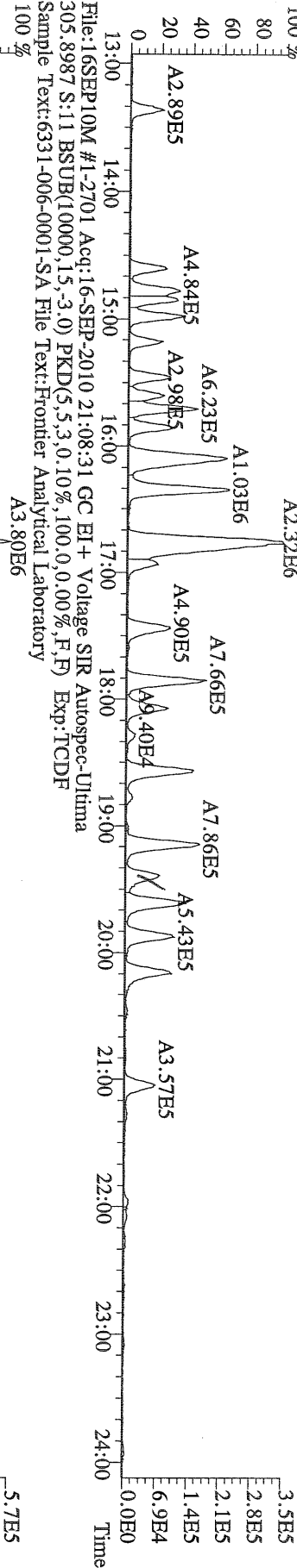
FAL ID: 6331-006-0001-SA      Filename: 16SEP10M    Sam:11    Acquired: 16-SEP-10 21:08:31    ICal: TCDFFAL3-9-16-10  
Client ID: PSB16-0-0.5-082510      ConCal: ST091610M3    EndCal: ST091610M6  
Results: 6327-03TC<sub>7</sub>    GC Column: DB225    Amount: 4.990 ✓

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	#Hom	Rec
2,3,7,8-TCDF	1.04e+06	0.66 y	19:24	1.28	7.90		2.50	-	-	1	
13C-2,3,7,8-TCDF	4.11e+07	0.87 y	19:23	1.10	289						72.2
13C-1,2,3,4-TCDF	5.20e+07	0.87 y	16:44	-	16.6						

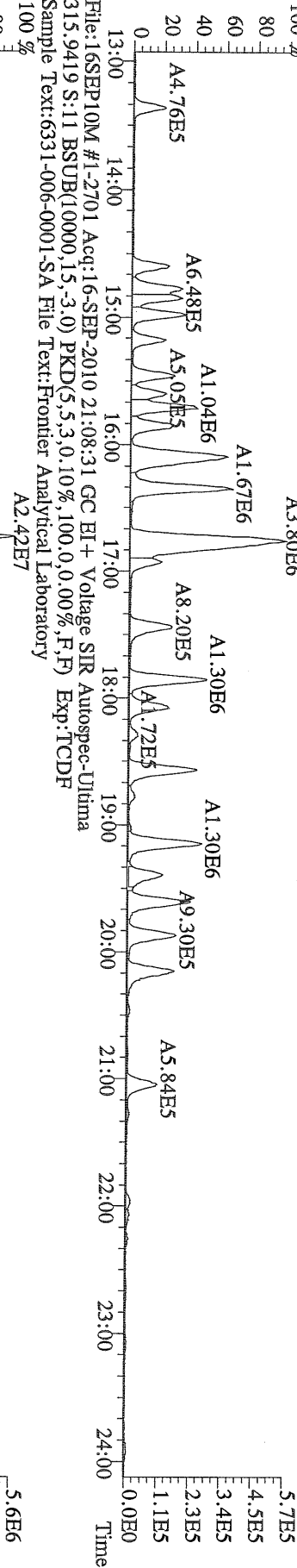
Analyst: 

Date: 9/17/10

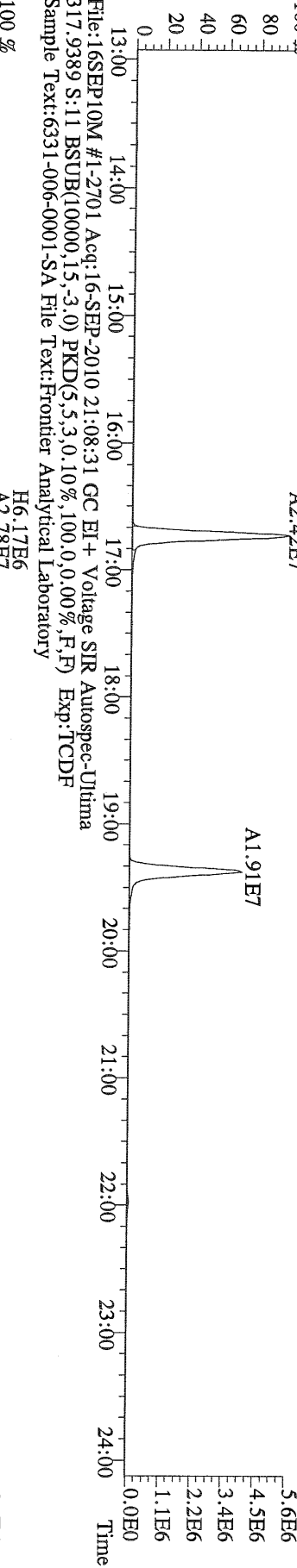
File:16SEP10M #1-2701 Acq:16-SEP-2010 21:08:31 GC EI+ Voltage SIR Autospec-Utima  
 303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



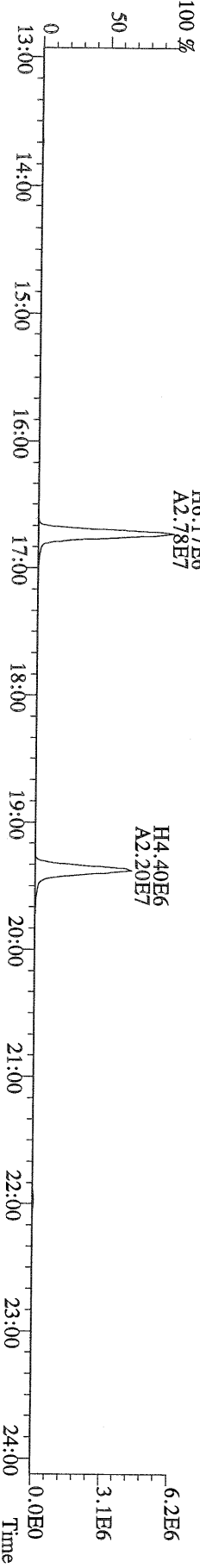
File:16SEP10M #1-2701 Acq:16-SEP-2010 21:08:31 GC EI+ Voltage SIR Autospec-Utima  
 305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



File:16SEP10M #1-2701 Acq:16-SEP-2010 21:08:31 GC EI+ Voltage SIR Autospec-Utima  
 315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory



File:16SEP10M #1-2701 Acq:16-SEP-2010 21:08:31 GC EI+ Voltage SIR Autospec-Utima  
 317.9389 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
 Sample Text:6331-006-0001-SA File Text:Frontier Analytical Laboratory





Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 1

Acquired: 15-SEP-10 05:26:26

Total Concentration: 6.70

Unnamed Concentration: 6.355

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:40	3.63e+04	4.40e+04	0.82 y	8.03e+04	1.05	
24:57	1.95e+04	2.81e+04	0.69 y	4.76e+04	0.624	
25:15	1.50e+04	1.96e+04	0.76 y	3.46e+04	0.454	
25:51	2.04e+04	2.45e+04	0.83 y	4.49e+04	0.588	
26:02	1.89e+04	2.79e+04	0.68 y	4.68e+04	0.613	
26:12	2.45e+04	3.17e+04	0.77 y	5.61e+04	0.736	
26:22	8.83e+03	1.11e+04	0.80 y	1.99e+04	0.261	
26:35	9.69e+03	1.26e+04	0.77 y	2.23e+04	0.292	
26:44	1.19e+04	1.44e+04	0.82 y	2.63e+04	0.345	
27:02	2.11e+04	2.63e+04	0.80 y	4.75e+04	0.622	
27:24	1.06e+04	1.48e+04	0.72 y	2.54e+04	0.333	
27:41	1.04e+04	1.57e+04	0.66 y	2.61e+04	0.342	2,3,7,8-TCDD
27:57	1.37e+04	1.94e+04	0.71 y	3.32e+04	0.435	



Totals class: Total Penta-Dioxins

Entry #: 39

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 2

Acquired: 15-SEP-10 05:26:26

Total Concentration: 18.8

Unnamed Concentration: 16.573

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:33	1.74e+05	1.15e+05	1.52 y	2.89e+05	3.89	
31:10	8.17e+04	5.28e+04	1.55 y	1.35e+05	1.81	
31:46	7.79e+04	5.56e+04	1.40 y	1.34e+05	1.79	
32:01	1.34e+05	8.21e+04	1.63 y	2.16e+05	2.90	
32:10	7.79e+04	4.77e+04	1.63 y	1.26e+05	1.69	
32:28	1.05e+05	6.85e+04	1.54 y	1.74e+05	2.34	
32:57	2.29e+04	1.62e+04	1.41 y	3.91e+04	0.525	
33:34	9.64e+04	6.81e+04	1.42 y	1.64e+05	2.21	1,2,3,7,8-PeCDD
33:38	3.28e+04	2.26e+04	1.45 y	5.55e+04	0.746	
34:09	4.13e+04	2.41e+04	1.71 y	6.53e+04	0.878	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 3

Acquired: 15-SEP-10 05:26:26

Total Concentration: 111

Unnamed Concentration: 81.561

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
36:33	1.19e+06	8.71e+05 1.37 y	2.07e+06	27.9	
37:29	1.99e+05	1.43e+05 1.39 y	3.43e+05	4.63	
37:55	1.95e+06	1.38e+06 1.41 y	3.33e+06	45.0	
38:06	8.39e+04	7.29e+04 1.15 y	1.57e+05	2.12	
39:00	1.96e+05	1.49e+05 1.32 y	3.44e+05	4.14	1,2,3,4,7,8-HxCDD
39:10	5.83e+05	4.11e+05 1.42 y	9.94e+05	15.2	1,2,3,6,7,8-HxCDD
39:27	8.22e+04	6.02e+04 1.36 y	1.42e+05	1.92	
39:37	4.30e+05	3.07e+05 1.40 y	7.37e+05	10.0	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 4

Acquired: 15-SEP-10 05:26:26

Total Concentration: 727

Unnamed Concentration: 371.763

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
43:20	1.22e+07	1.38e+07	0.89 y	2.60e+07	372	
44:42	1.18e+07	1.31e+07	0.90 y	2.49e+07	355	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 1

Acquired: 15-SEP-10 05:26:26

Total Concentration: 11.3

Unnamed Concentration: 10.963

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:41	4.24e+04	5.98e+04	0.71 y	1.02e+05	0.625	
24:04	2.18e+05	3.31e+05	0.66 y	5.50e+05	3.36	
24:25	5.97e+04	8.91e+04	0.67 y	1.49e+05	0.911	
24:42	6.28e+04	9.01e+04	0.70 y	1.53e+05	0.936	
25:00	9.76e+04	1.46e+05	0.67 y	2.44e+05	1.49	
25:11	1.66e+04	2.30e+04	0.72 y	3.96e+04	0.242	
25:35	2.73e+04	3.36e+04	0.81 y	6.09e+04	0.373	
25:42	1.19e+05	1.75e+05	0.68 y	2.94e+05	1.80	
26:09	2.16e+04	3.01e+04	0.72 y	5.17e+04	0.316	
26:56	2.72e+04	3.55e+04	0.76 y	6.27e+04	0.384	2,3,7,8-TCDF
27:14	3.36e+04	4.64e+04	0.72 y	8.00e+04	0.490	
28:47	2.89e+04	3.79e+04	0.76 y	6.68e+04	0.409	

Totals class: 1st Fn. Tot Penta-Furans      Entry #: 43

Run: 19      File: 14SEP10M      S: 12 I: 1 F: 1  
Acquired: 15-SEP-10 05:26:26

Total Concentration: 20.3      Unnamed Concentration: 20.348

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:44	1.14e+06	6.95e+05	1.64 y	1.83e+06	20.3	

Totals class: Total Penta-Furans

Entry #: 44

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 2

Acquired: 15-SEP-10 05:26:26

Total Concentration: 17.8

Unnamed Concentration: 15.852

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:23	4.59e+04	3.29e+04	1.40 y	7.88e+04	0.874	
30:32	4.61e+05	3.11e+05	1.48 y	7.72e+05	8.56	
31:16	1.90e+05	1.28e+05	1.48 y	3.19e+05	3.53	
31:48	3.58e+04	2.33e+04	1.54 y	5.91e+04	0.641	1,2,3,7,8-PeCDF
32:09	6.48e+04	4.34e+04	1.49 y	1.08e+05	1.20	
33:00	1.99e+04	1.31e+04	1.52 y	3.30e+04	0.366	
33:10	6.55e+04	4.88e+04	1.34 y	1.14e+05	1.30	2,3,4,7,8-PeCDF
33:11	6.99e+04	4.88e+04	1.43 y	1.19e+05	1.32	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 3

Acquired: 15-SEP-10 05:26:26

Total Concentration: 106

Unnamed Concentration: 93.310

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:33	2.75e+04	2.42e+04	1.13 y	5.17e+04	0.583	
35:41	7.20e+05	5.91e+05	1.22 y	1.31e+06	14.8	
35:56	2.24e+06	1.86e+06	1.21 y	4.10e+06	46.2	
36:33	4.36e+04	3.69e+04	1.18 y	8.05e+04	0.908	
36:51	1.46e+06	1.21e+06	1.20 y	2.67e+06	30.0	
37:28	3.71e+04	3.32e+04	1.12 y	7.03e+04	0.793	
37:38	1.59e+05	1.39e+05	1.14 y	2.98e+05	3.52	1,2,3,4,7,8-HxCDF
37:49	1.47e+05	1.36e+05	1.08 y	2.83e+05	3.26	1,2,3,6,7,8-HxCDF
38:47	2.29e+05	1.87e+05	1.22 y	4.17e+05	5.00	2,3,4,6,7,8-HxCDF
40:12	2.50e+04	1.97e+04	1.27 y	4.47e+04	0.440	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 19

File: 14SEP10M

S: 12 I: 1 F: 4

Acquired: 15-SEP-10 05:26:26

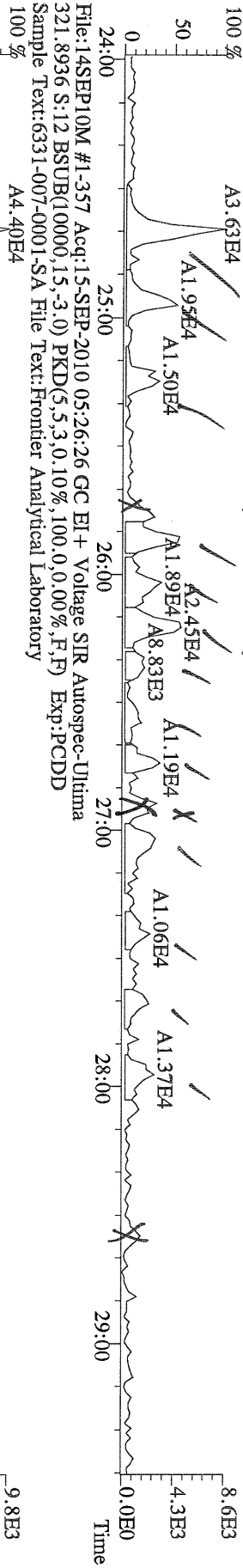
Total Concentration: 339

Unnamed Concentration: 199.311

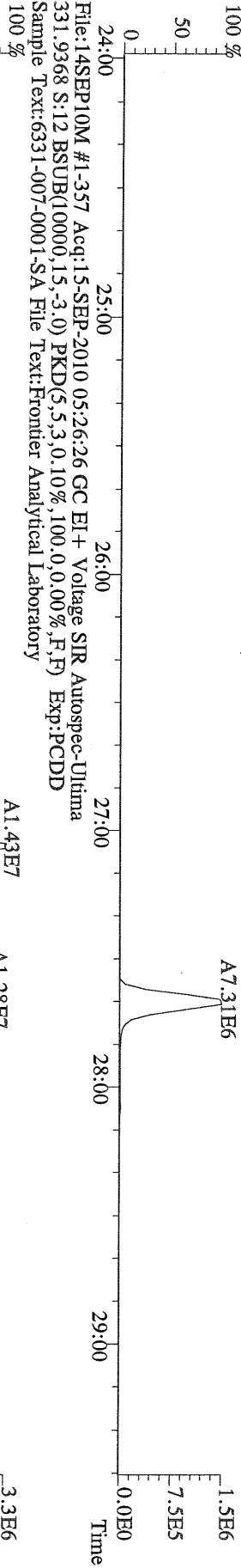
RT	mL Resp	m2 Resp	RA	Resp	Concentration	Name
42:49	4.41e+06	4.36e+06	1.01 y	8.77e+06	134	1,2,3,4,6,7,8-HpCDF
43:20	1.50e+05	1.34e+05	1.12 y	2.84e+05	4.93	
43:37	5.64e+06	5.58e+06	1.01 y	1.12e+07	194	
45:37	1.26e+05	1.16e+05	1.09 y	2.41e+05	4.81	1,2,3,4,7,8,9-HpCDF



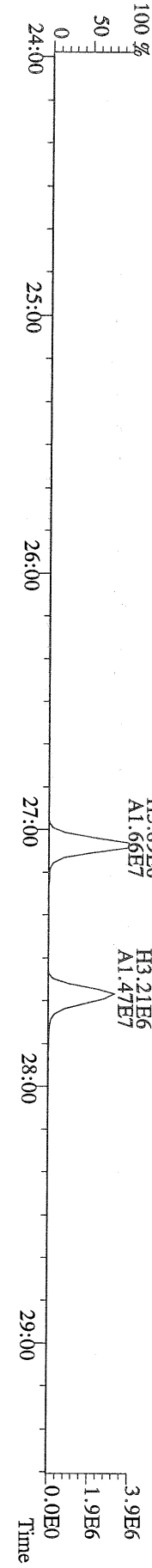
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 319.8965 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



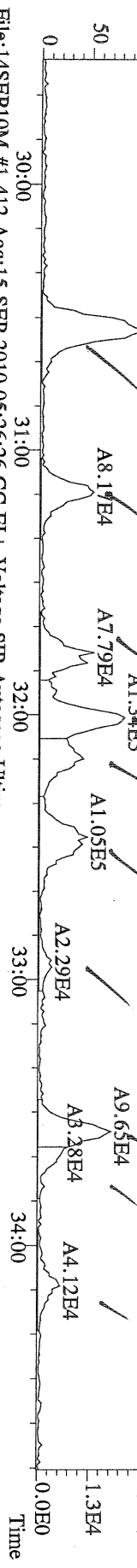
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 327.8847 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



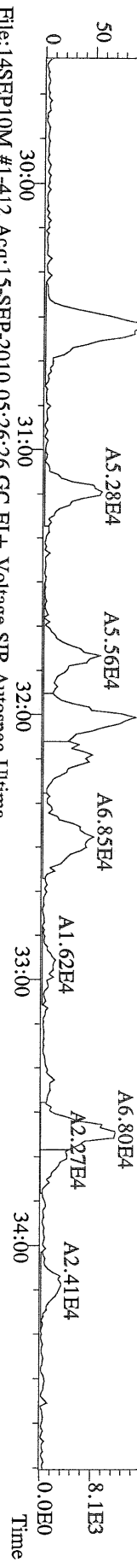
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 333.9339 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



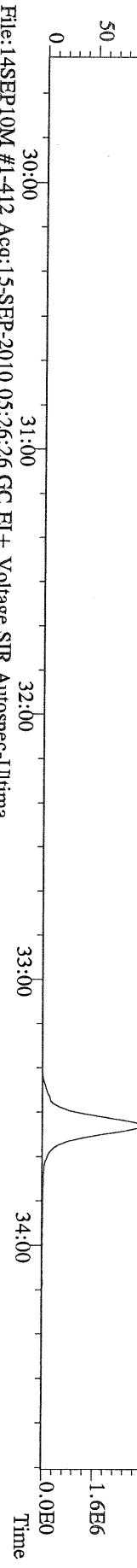
File:14SEP10M #1-412 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



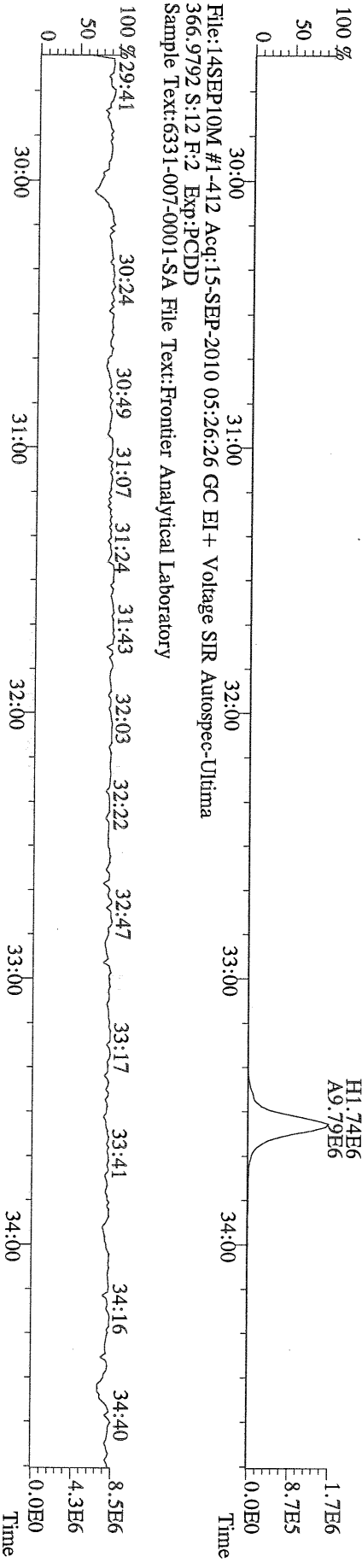
File:14SEP10M #1-412 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 357.8517 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



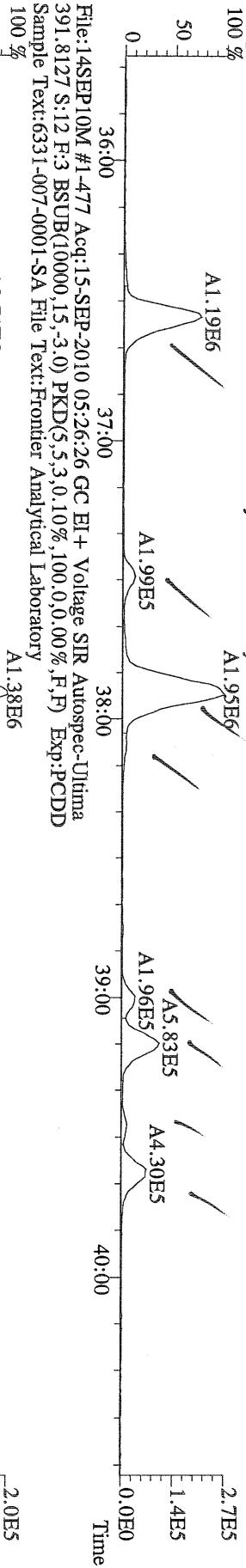
File:14SEP10M #1-412 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



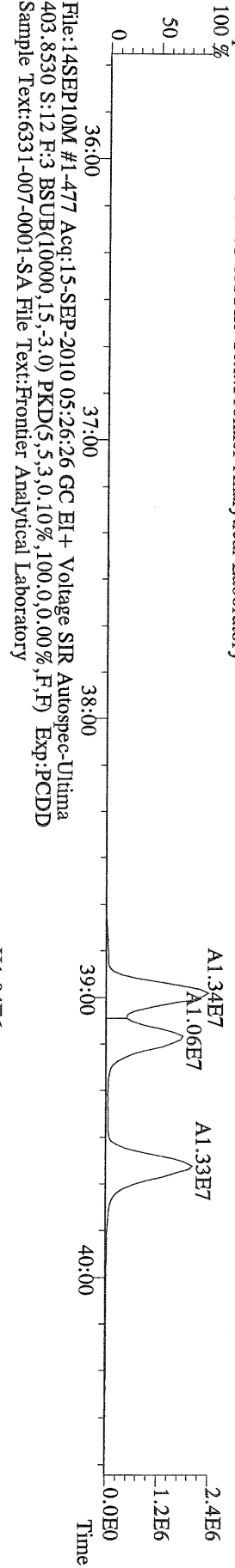
File:14SEP10M #1-412 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:12 F:2 Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



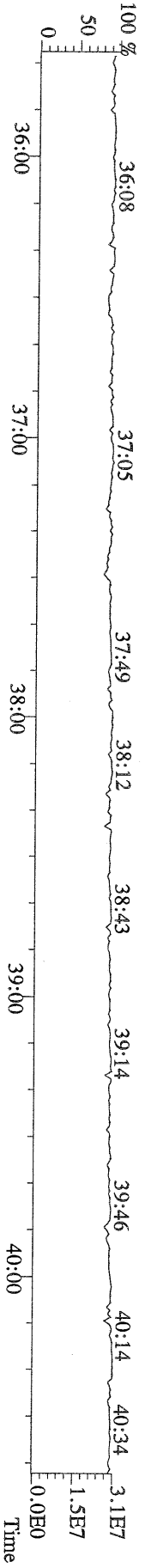
File:14SEP10M #1-477 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



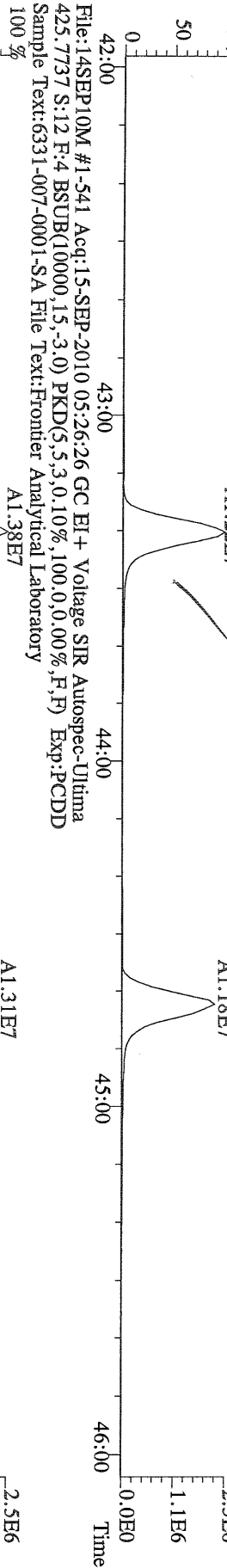
File:14SEP10M #1-477 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



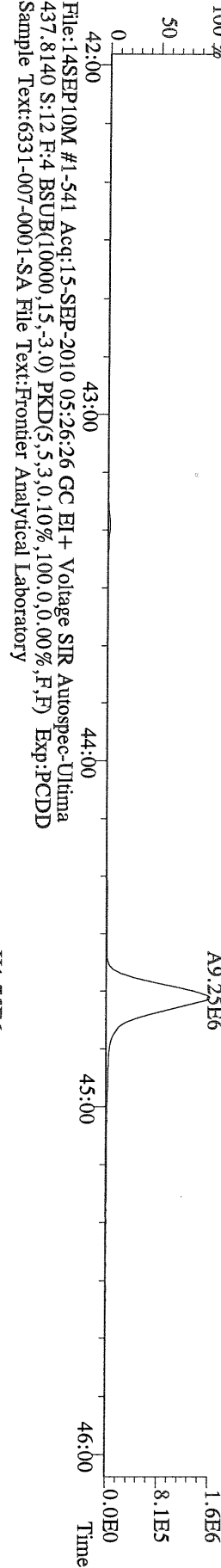
File:14SEP10M #1-477 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
380.9760 S:12 F:3 Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



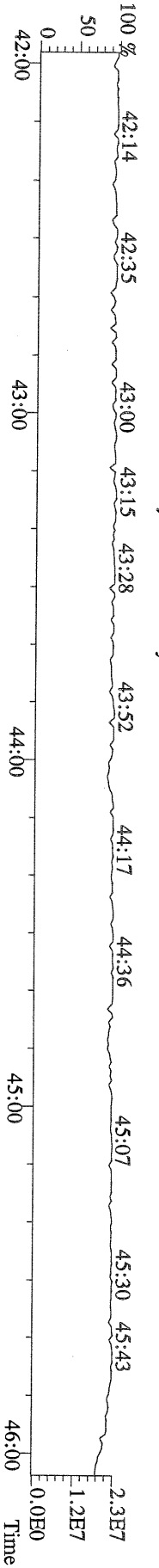
File:14SEP10M #1-541 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



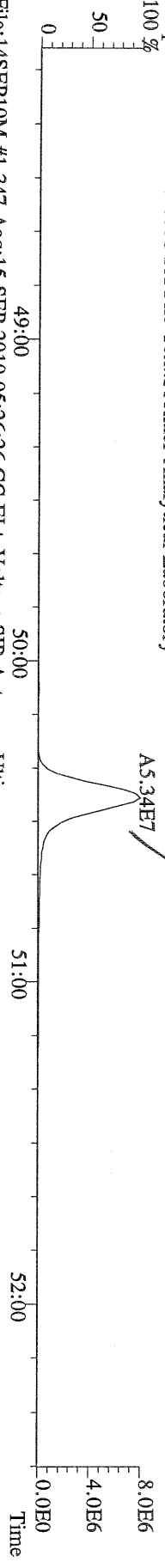
File:14SEP10M #1-541 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



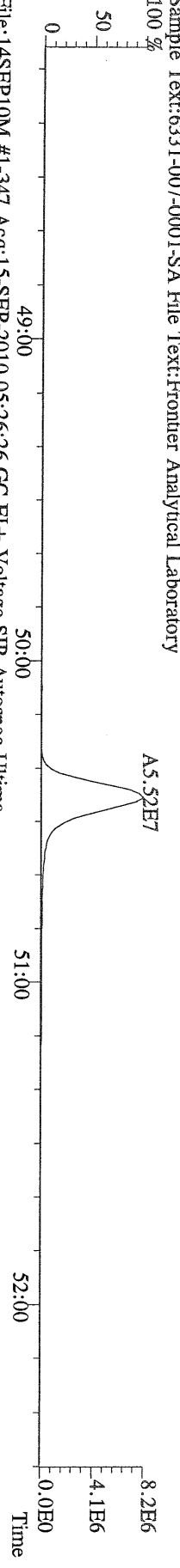
File:14SEP10M #1-541 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:12 F:4 Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



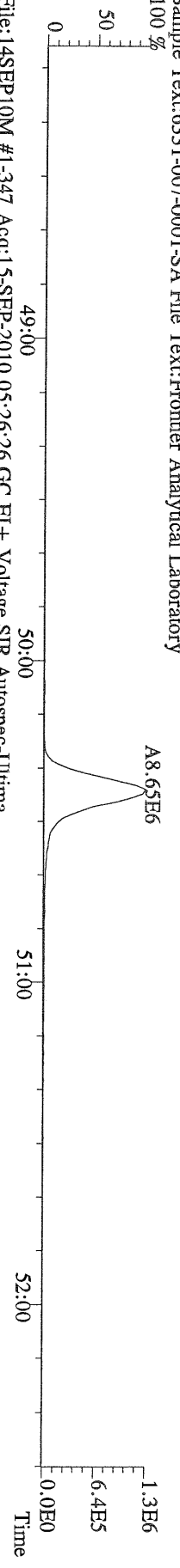
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory  
100 %



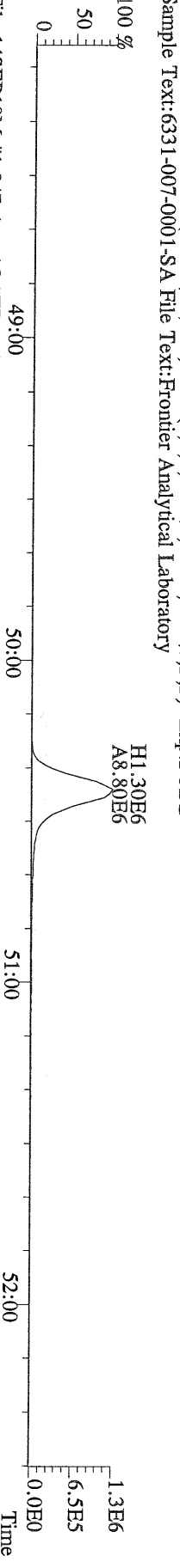
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory  
100 %



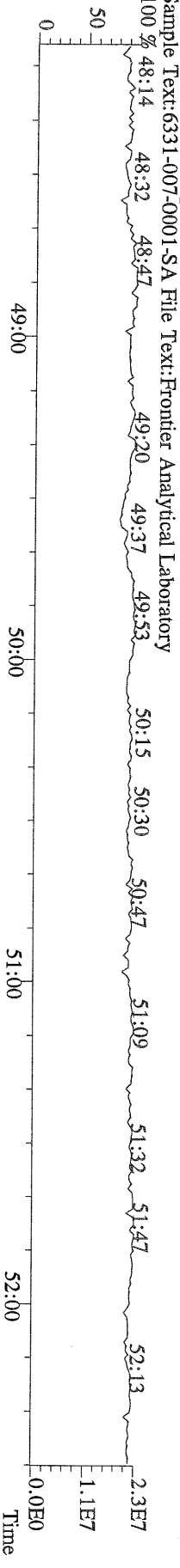
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory  
100 %



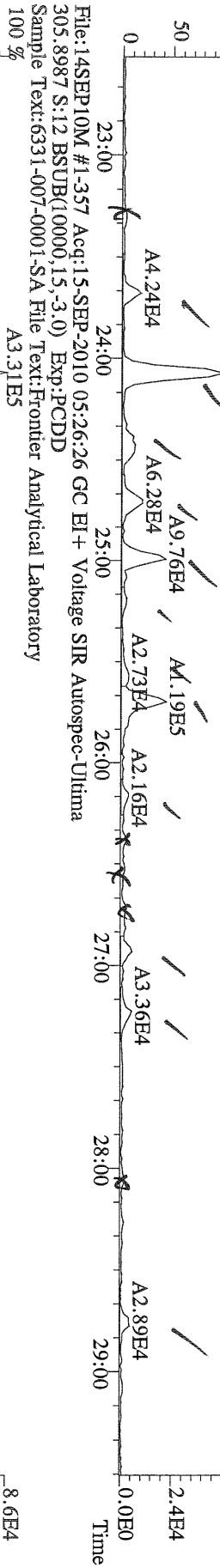
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



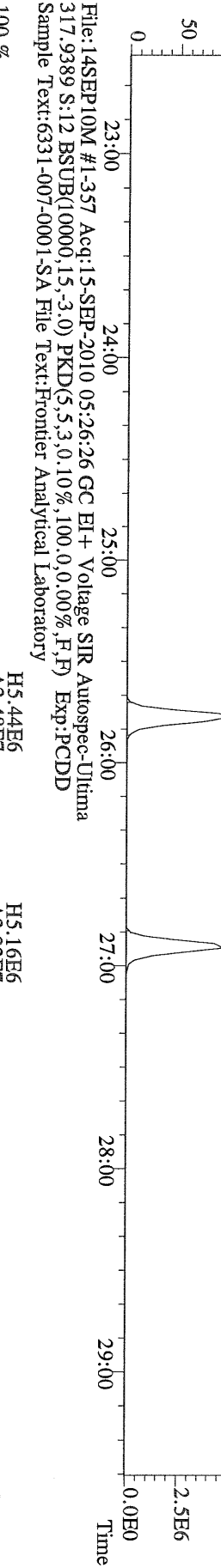
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:12 F:5 Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



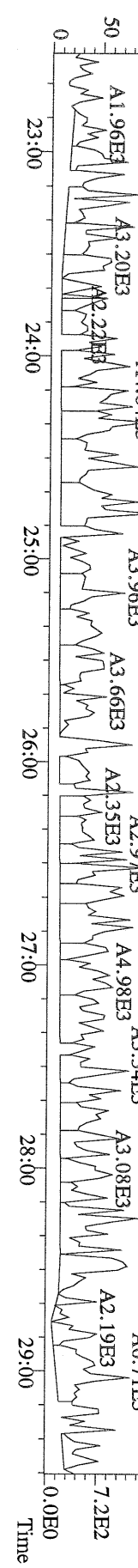
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI + Voltage SIR Autospec-Ultima  
 303.9016 S:12 BSUB(10000,15,-3.0) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



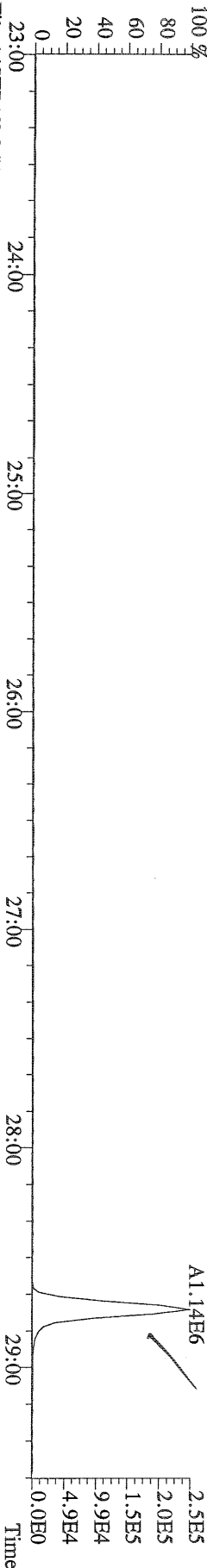
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI + Voltage SIR Autospec-Ultima  
 315.9419 S:12 BSUB(10000,15,75.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



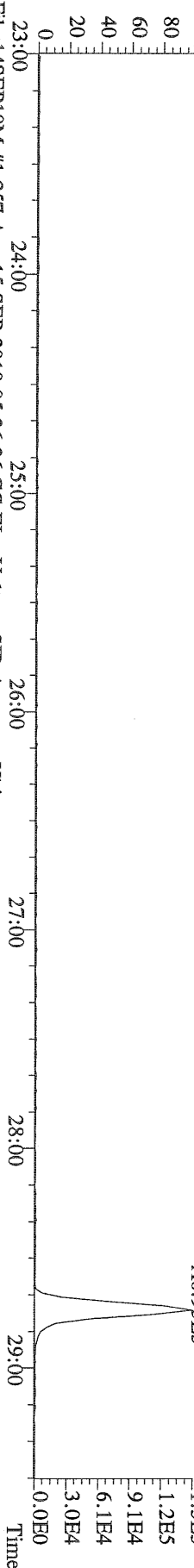
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI + Voltage SIR Autospec-Ultima  
 375.8364 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



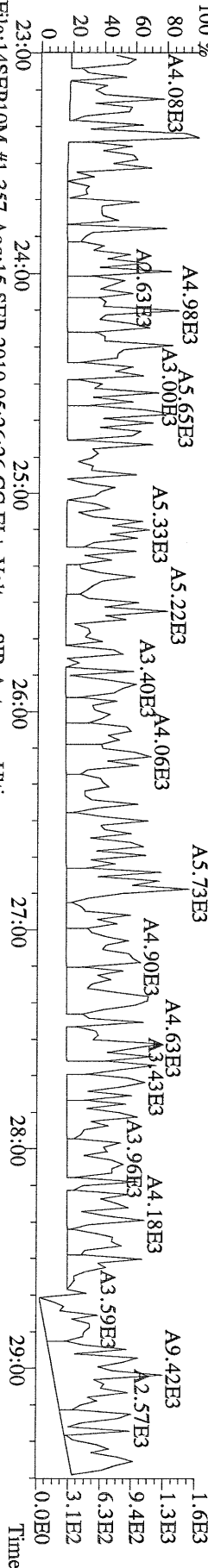
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



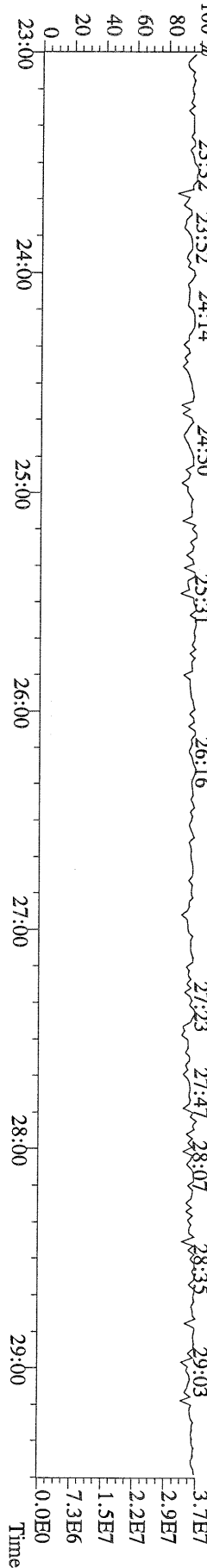
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



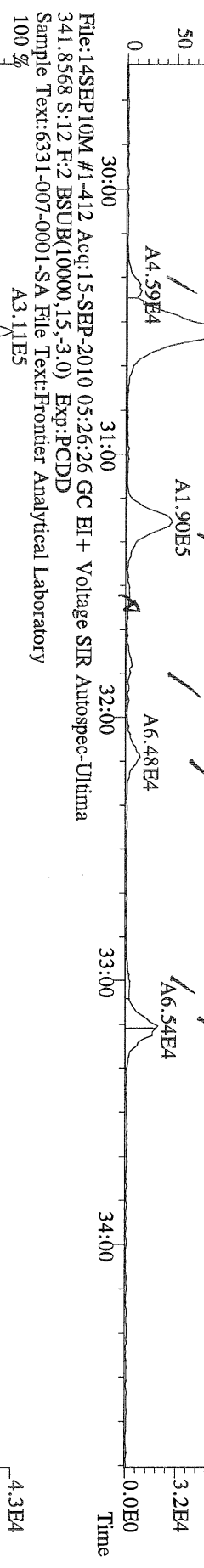
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



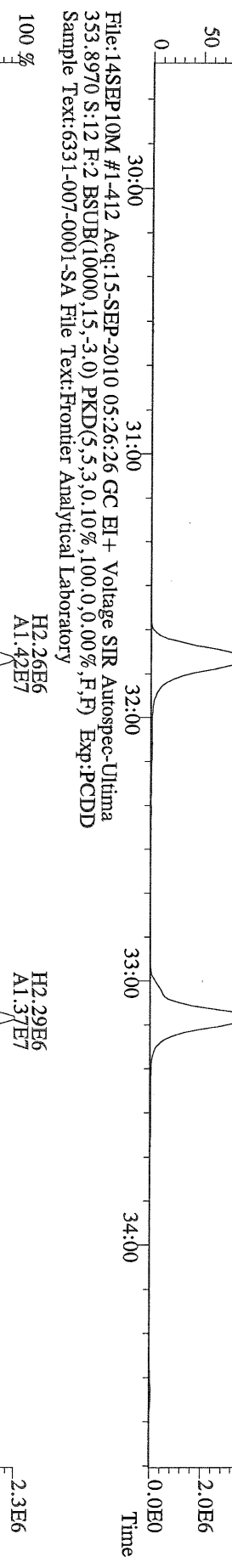
File:14SEP10M #1-357 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:12 Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-412 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:12 F:2 BSUB(10000,15,-3,0) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-412 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-412 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory

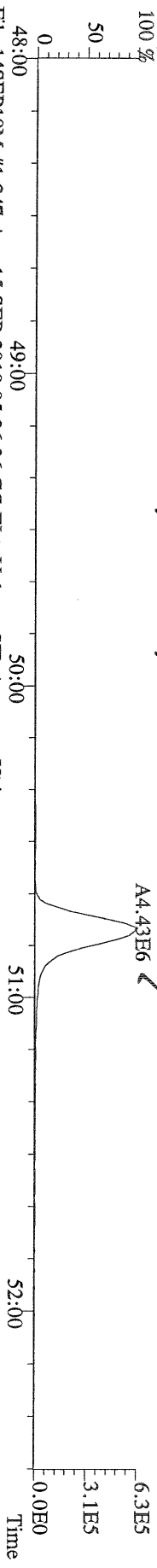




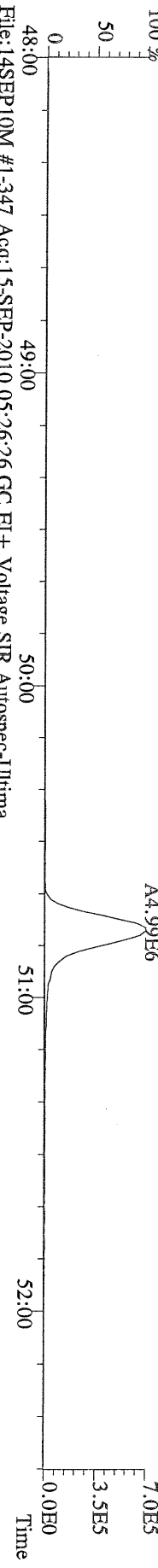




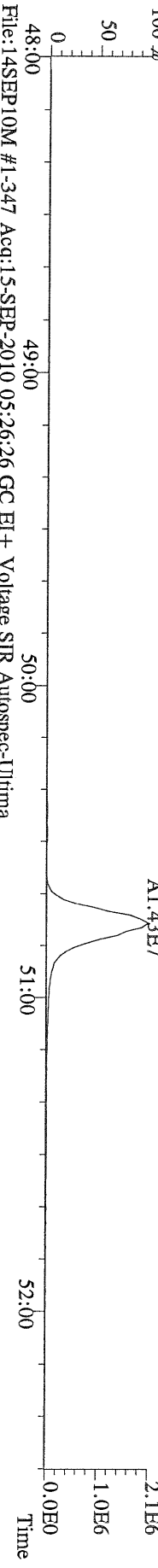
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



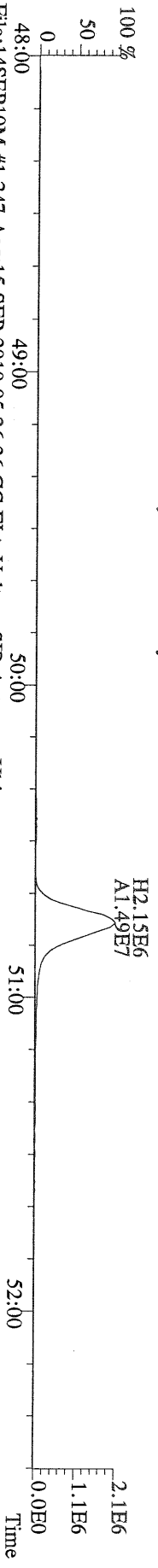
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



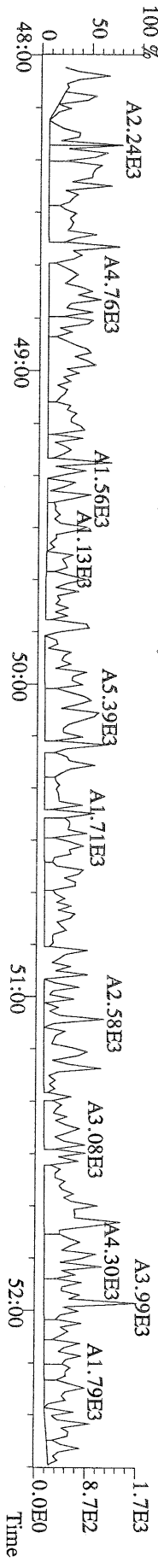
File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:15-SEP-2010 05:26:26 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6331-008-0001-SA      Filename: 14SEP10M      Sam:10      Acquired: 15-SEP-10 03:35:44      ICal: PCDDFAL3-8-23-10  
 Client ID: PSB16-4-6-082510      ConCal: ST091410M1      EndCal: ST091410M2  
 Results: 6331      GC Column: DB5      Amount: 5.000 ✓      NATO 1989 Tox: 37.7

WHO 1998 Tox: 32.1      WHO 2005 Tox: 33.3 ✓  
 DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	5.63e+04	0.87 y	27:31	1.11	0.834	J	2.50	-	-	*	
1,2,3,7,8-PeCDD	4.06e+05	1.41 y	33:19	1.10	5.49		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	7.27e+05	1.39 y	38:42	1.37	9.67		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	2.32e+06	1.40 y	38:51	1.37	34.3		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.72e+06	1.37 y	39:18	1.36	24.2		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	5.98e+07	0.88 y	44:18	1.45	842		2.50	-	-	*	
OCDD	3.63e+08	0.94 y	49:54	1.43	8430		2.50	-	-	*	
2,3,7,8-TCDF	9.93e+04	0.82 y	26:46	1.50	0.711	J	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.09e+05	1.46 y	31:36	0.94	1.25	J	2.50	-	-	*	
2,3,4,7,8-PeCDF	2.52e+05	1.43 y	32:56	0.94	3.13	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	8.79e+05	1.18 y	37:17	0.93	11.2		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	9.41e+05	1.23 y	37:30	0.82	10.5		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.23e+06	1.19 y	38:27	0.92	15.9		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.20e+05	1.38 y	39:57	1.00	1.28	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	2.60e+07	1.01 y	42:24	1.39	390		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	6.31e+05	0.99 y	45:13	1.36	11.3		2.50	-	-	*	
OCDF	3.22e+07	0.88 y	50:16	0.79	815		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.43e+07	0.86 y	27:30	1.02	367					91.9	
13C-1,2,3,7,8-PeCDD	2.68e+07	1.73 y	33:18	0.84	494					124	
13C-1,2,3,4,7,8-HxCDD	2.19e+07	1.26 y	38:40	1.07	361					90.3	
13C-1,2,3,6,7,8-HxCDD	1.97e+07	1.18 y	38:50	1.01	345					86.2	
13C-1,2,3,4,6,7,8-HpCDD	1.96e+07	0.92 y	44:17	0.86	405					101	
13C-OCDD	2.40e+07	0.97 y	49:53	0.55	778					97.3	
13C-2,3,7,8-TCDF	3.72e+07	0.86 y	26:44	0.99	372					93.0	
13C-1,2,3,7,8-PeCDF	3.72e+07	1.74 y	31:34	0.84	442					110	
13C-2,3,4,7,8-PeCDF	3.45e+07	1.77 y	32:54	0.81	422					106	
13C-1,2,3,4,7,8-HxCDF	3.38e+07	0.46 y	37:17	1.85	324					80.9	
13C-1,2,3,6,7,8-HxCDF	4.38e+07	0.46 y	37:29	2.54	306					76.4	
13C-2,3,4,6,7,8-HxCDF	3.37e+07	0.45 y	38:26	2.01	296					74.1	
13C-1,2,3,7,8,9-HxCDF	3.77e+07	0.47 y	39:52	2.03	329					82.2	
13C-1,2,3,4,6,7,8-HpCDF	1.92e+07	0.44 y	42:23	1.11	306					76.5	
13C-1,2,3,4,7,8,9-HpCDF	1.64e+07	0.43 y	45:12	0.80	362					90.4	
13C-OCDF	4.02e+07	0.95 y	50:15	1.08	658					82.2	
37Cl-2,3,7,8-TCDD	6.52e+06		27:31	0.69	147					92.0	
13C-1,2,3,4-TCDD	2.58e+07	0.87 y	26:55	-	11.5						
13C-1,2,3,4-TCDF	4.02e+07	0.87 y	25:39	-	11.1						
13C-1,2,3,7,8,9-HxCDD	2.26e+07	1.25 y	39:17	-	16.4						
Total Tetra-Dioxins	5.64e+05		24:31	1.11	8.36		2.50	-	-	*	12
Total Penta-Dioxins	2.66e+06		30:21	1.10	35.9		2.50	-	-	*	10
Total Hexa-Dioxins	1.74e+07		36:14	1.37	245		2.50	-	-	*	7
Total Hepta-Dioxins	1.19e+08		42:55	1.45	1680		2.50	-	-	*	2
Total Tetra-Furans	4.32e+06		23:10	1.50	30.9		2.50	-	-	*	18
1st Fn. Tot Penta-Furans	5.34e+06		28:34	0.94	63.5		2.50	-	-	*	PeCDF 1
Total Penta-Furans	4.80e+06		30:21	0.94	57.2		2.50	-	-	*	121 ✓ 8
Total Hexa-Furans	2.64e+07		35:20	0.91	312		2.50	-	-	*	9
Total Hepta-Furans	5.64e+07		42:24	1.38	888		2.50	-	-	*	4

Analyst: 

Date: 9/15/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 17

File: 14SEP10M

S: 10 I: 1 F: 1

Acquired: 15-SEP-10 03:35:44

Total Concentration: 8.36

Unnamed Concentration: 7.529

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:31	3.31e+04	3.98e+04	0.83 y	7.29e+04	1.08	
24:48	2.60e+04	3.34e+04	0.78 y	5.93e+04	0.880	
25:06	1.45e+04	1.97e+04	0.73 y	3.42e+04	0.506	
25:43	2.79e+04	3.51e+04	0.80 y	6.30e+04	0.933	
25:53	1.21e+04	1.82e+04	0.66 y	3.03e+04	0.450	
26:04	3.33e+04	3.98e+04	0.84 y	7.31e+04	1.08	
26:25	8.64e+03	1.28e+04	0.67 y	2.15e+04	0.318	
26:37	1.36e+04	1.73e+04	0.79 y	3.09e+04	0.458	
26:54	2.31e+04	3.20e+04	0.72 y	5.51e+04	0.816	
27:17	1.33e+04	1.56e+04	0.85 y	2.89e+04	0.429	
27:31	2.61e+04	3.02e+04	0.87 y	5.63e+04	0.834	2,3,7,8-TCDD
27:49	1.64e+04	2.24e+04	0.73 y	3.88e+04	0.575	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 17

File: 14SEP10M

S: 10 I: 1 F: 2

Acquired: 15-SEP-10 03:35:44

Total Concentration: 35.9

Unnamed Concentration: 30.433

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	3.60e+05	2.38e+05	1.51 y	5.99e+05	8.10	
30:57	1.26e+05	9.17e+04	1.37 y	2.17e+05	2.94	
31:35	1.42e+05	9.47e+04	1.50 y	2.37e+05	3.20	
31:48	2.75e+05	1.83e+05	1.50 y	4.57e+05	6.18	
31:57	1.39e+05	9.12e+04	1.53 y	2.30e+05	3.12	
32:14	1.63e+05	1.11e+05	1.47 y	2.74e+05	3.71	
32:43	2.32e+04	1.73e+04	1.34 y	4.05e+04	0.547	
33:19	2.38e+05	1.69e+05	1.41 y	4.06e+05	5.49	1,2,3,7,8-PeCDD
33:24	6.19e+04	4.09e+04	1.51 y	1.03e+05	1.39	
33:54	5.65e+04	3.56e+04	1.58 y	9.21e+04	1.25	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 17

File: 14SEP10M

S: 10 I: 1 F: 3

Acquired: 15-SEP-10 03:35:44

Total Concentration: 245

Unnamed Concentration: 176.885

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	2.50e+06	1.82e+06	1.37 y	4.31e+06	60.6	
37:10	3.92e+05	2.77e+05	1.41 y	6.69e+05	9.39	
37:34	4.28e+06	3.10e+06	1.38 y	7.38e+06	104	
38:42	4.22e+05	3.04e+05	1.39 y	7.27e+05	9.67	1,2,3,4,7,8-HxCDD
38:51	1.35e+06	9.66e+05	1.40 y	2.32e+06	34.3	1,2,3,6,7,8-HxCDD
39:09	1.30e+05	1.02e+05	1.28 y	2.31e+05	3.25	
39:18	9.92e+05	7.23e+05	1.37 y	1.72e+06	24.2	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 17

File: 14SEP10M

S: 10 I: 1 F: 4

Acquired: 15-SEP-10 03:35:44

Total Concentration: 1680

Unnamed Concentration: 839.617

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:55	2.81e+07	3.16e+07	0.89 y	5.96e+07	840	
44:18	2.81e+07	3.17e+07	0.88 y	5.98e+07	842	1,2,3,4,6,7,8-HpCDD



Totals class: Total Tetra-Furans

Entry #: 42

Run: 17 File: 14SEP10M S: 10 I: 1 F: 1  
Acquired: 15-SEP-10 03:35:44

Total Concentration: 30.9

Unnamed Concentration: 30.198

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
23:10	1.45e+04	1.98e+04 0.73 y	3.42e+04	0.245	
23:31	8.07e+04	1.15e+05 0.70 y	1.95e+05	1.40	
23:55	5.68e+05	8.66e+05 0.66 y	1.43e+06	10.3	
24:16	9.17e+04	1.20e+05 0.76 y	2.12e+05	1.52	
24:32	1.16e+05	1.62e+05 0.72 y	2.78e+05	1.99	
24:51	2.61e+05	3.74e+05 0.70 y	6.35e+05	4.55	
25:04	2.15e+04	2.48e+04 0.87 y	4.63e+04	0.332	
25:26	4.62e+04	5.45e+04 0.85 y	1.01e+05	0.721	
25:33	2.59e+05	3.94e+05 0.66 y	6.52e+05	4.67	
25:39	4.37e+04	5.13e+04 0.85 y	9.50e+04	0.681	
26:02	3.23e+04	3.79e+04 0.85 y	7.02e+04	0.503	
26:15	1.75e+04	2.24e+04 0.78 y	3.99e+04	0.286	
26:24	1.42e+04	1.80e+04 0.79 y	3.22e+04	0.231	
26:39	3.38e+04	4.87e+04 0.69 y	8.25e+04	0.591	
26:46	4.47e+04	5.46e+04 0.82 y	9.93e+04	0.711	2,3,7,8-TCDF
27:05	4.68e+04	5.40e+04 0.87 y	1.01e+05	0.722	
28:11	1.39e+04	2.00e+04 0.69 y	3.39e+04	0.243	
28:35	7.77e+04	9.63e+04 0.81 y	1.74e+05	1.25	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 43

Run: 17 File: 14SEP10M S: 10 I: 1 F: 1  
Acquired: 15-SEP-10 03:35:44

Total Concentration: 63.5 Unnamed Concentration: 63.506

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:34	3.29e+06	2.05e+06	1.61 y	5.34e+06	63.5	

Totals class: Total Penta-Furans

Entry #: 44

Run: 17

File: 14SEP10M

S: 10 I: 1 F: 2

Acquired: 15-SEP-10 03:35:44

Total Concentration: 57.2

Unnamed Concentration: 52.806

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:21	1.57e+06	1.01e+06	1.55 y	2.58e+06	30.7	
31:02	6.57e+05	4.31e+05	1.52 y	1.09e+06	12.9	
31:20	4.73e+04	2.94e+04	1.61 y	7.68e+04	0.913	
31:36	6.49e+04	4.45e+04	1.46 y	1.09e+05	1.25	1,2,3,7,8-PeCDF
31:57	1.84e+05	1.11e+05	1.66 y	2.95e+05	3.51	
32:46	2.67e+04	1.85e+04	1.44 y	4.52e+04	0.537	
32:56	1.48e+05	1.04e+05	1.43 y	2.52e+05	3.13	2,3,4,7,8-PeCDF
32:59	2.17e+05	1.39e+05	1.56 y	3.56e+05	4.24	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 17

File: 14SEP10M

S: 10 I: 1 F: 3

Acquired: 15-SEP-10 03:35:44

Total Concentration: 312

Unnamed Concentration: 273.434

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:20	2.03e+06	1.71e+06	1.19 y	3.74e+06	44.1	
35:37	7.03e+06	5.82e+06	1.21 y	1.28e+07	152	
36:13	1.14e+05	8.87e+04	1.28 y	2.03e+05	2.39	
36:32	3.43e+06	2.83e+06	1.21 y	6.25e+06	73.7	
37:08	7.82e+04	6.42e+04	1.22 y	1.42e+05	1.68	
37:17	4.75e+05	4.03e+05	1.18 y	8.79e+05	11.2	1,2,3,4,7,8-HxCDF
37:30	5.19e+05	4.22e+05	1.23 y	9.41e+05	10.5	1,2,3,6,7,8-HxCDF
38:27	6.69e+05	5.63e+05	1.19 y	1.23e+06	15.9	2,3,4,6,7,8-HxCDF
39:57	6.96e+04	5.05e+04	1.38 y	1.20e+05	1.28	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 17

File: 14SEP10M

S: 10 I: 1 F: 4

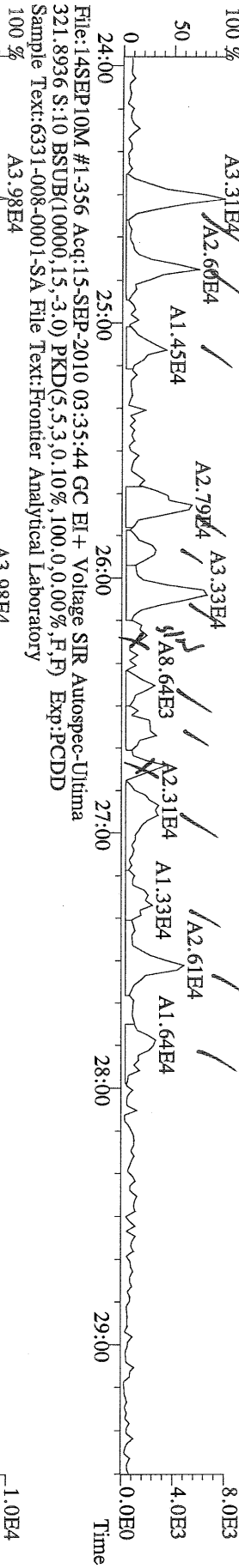
Acquired: 15-SEP-10 03:35:44

Total Concentration: 888

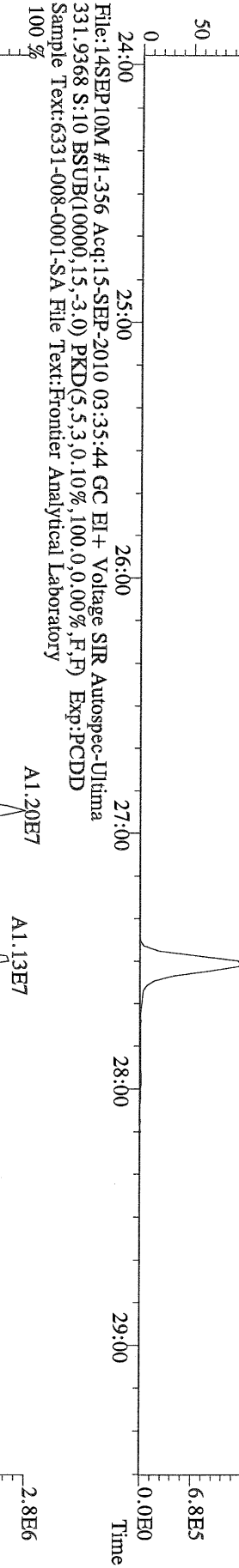
Unnamed Concentration: 486.019

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:24	1.30e+07	1.30e+07	1.01 y	2.60e+07	390	1,2,3,4,6,7,8-HpCDF
42:56	1.84e+05	2.06e+05	0.90 y	3.90e+05	6.37	
43:13	1.45e+07	1.48e+07	0.98 y	2.94e+07	480	
45:13	3.13e+05	3.18e+05	0.99 y	6.31e+05	11.3	1,2,3,4,7,8,9-HpCDF

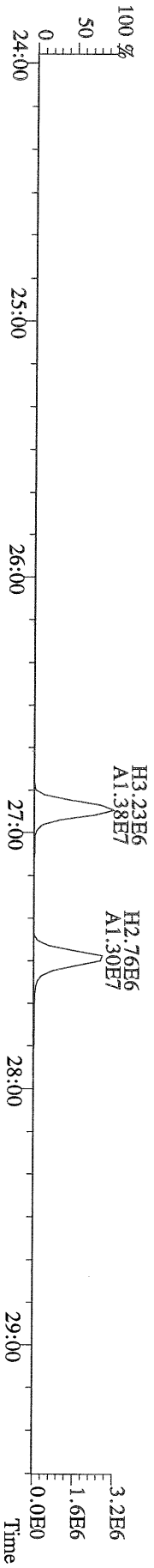
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319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



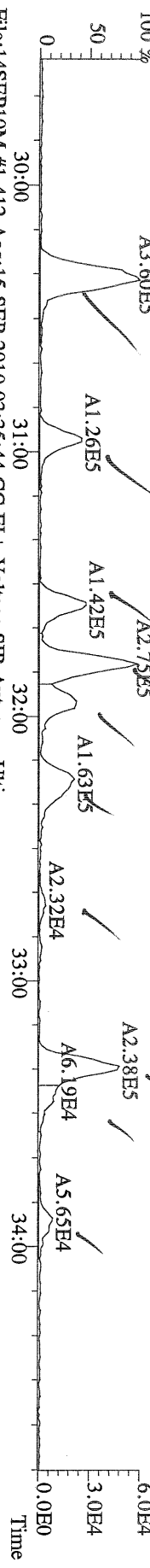
File:14SEP10M #1-356 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
327.8847 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



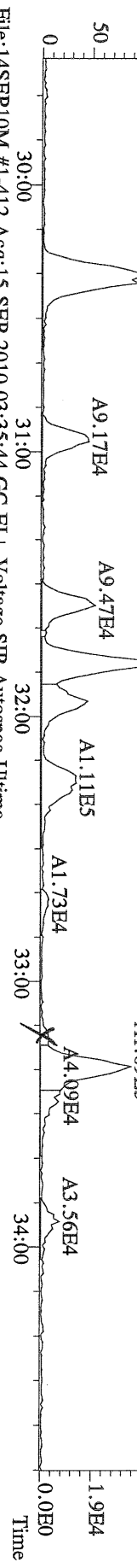
File:14SEP10M #1-356 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
333.9339 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



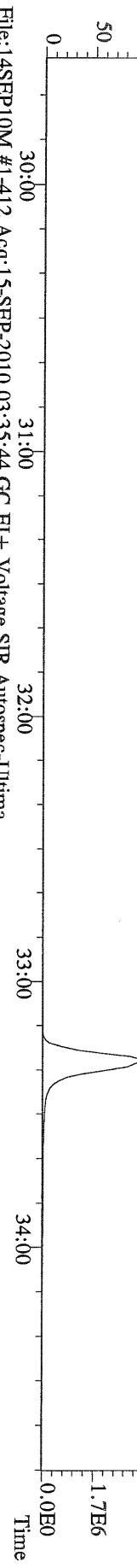
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 355.8546 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



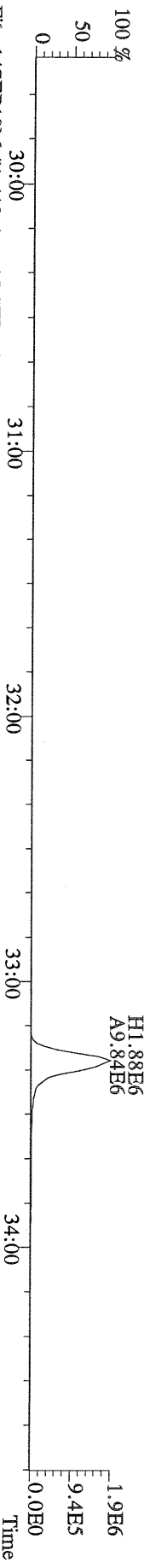
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 357.8517 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD  
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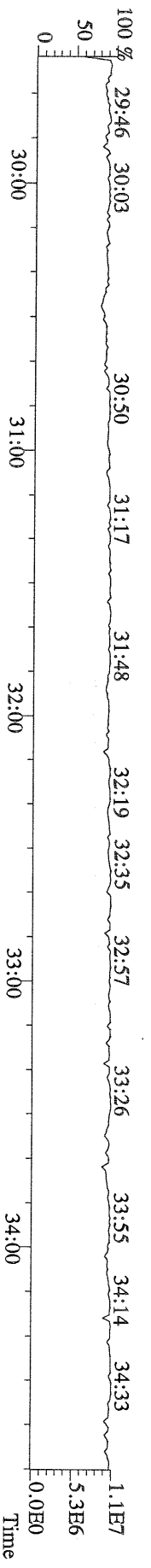
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 367.8949 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



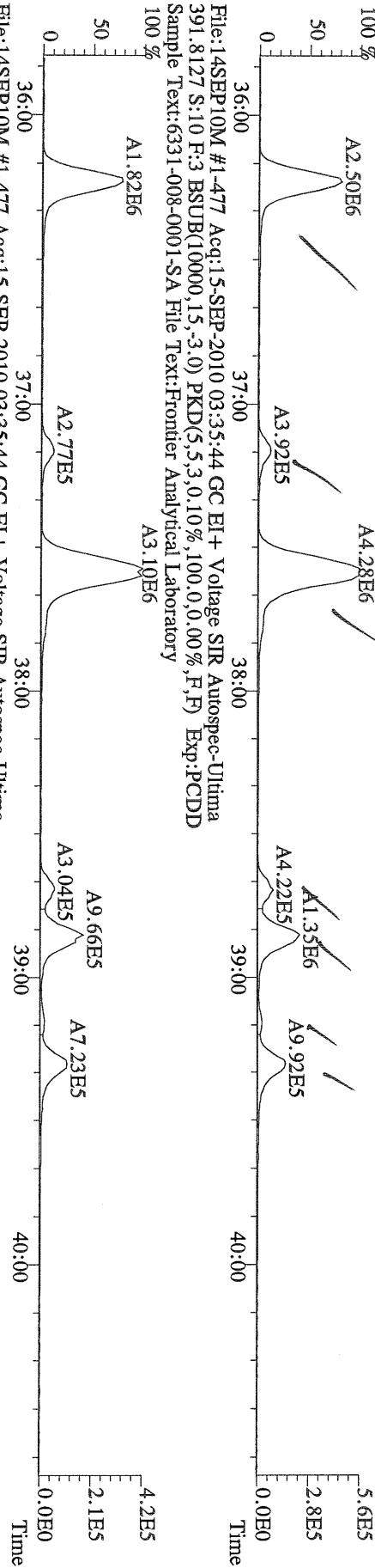
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 369.8919 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD  
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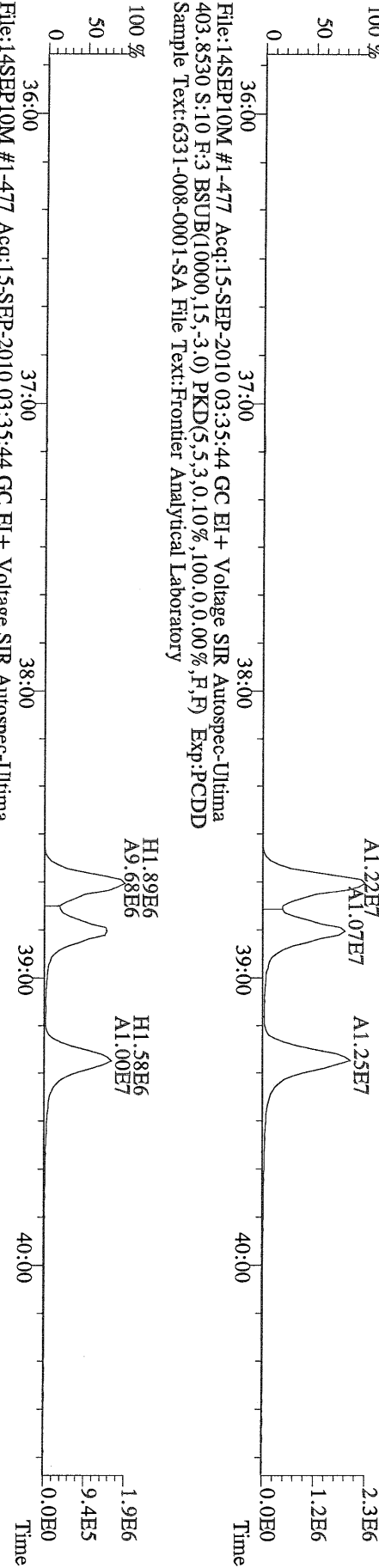
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 366.9792 S:10 F:2 Exp.:PCDD  
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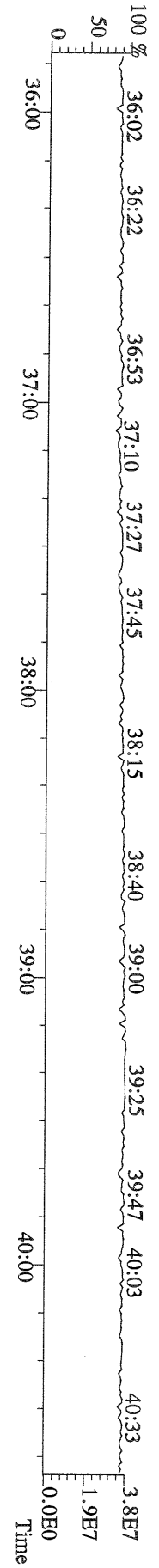
File:14SEP10M #1-477 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-477 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory

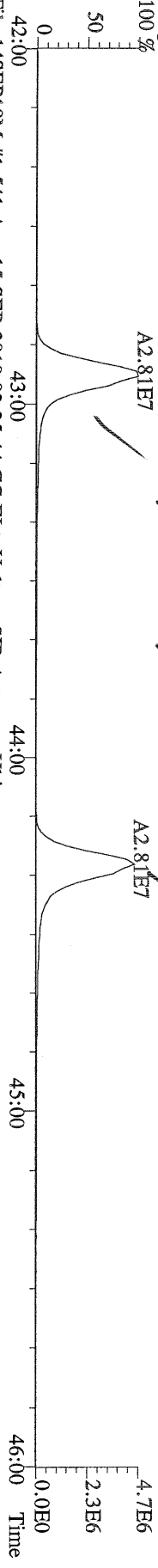


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 380.9760 S:10 F:3 Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory

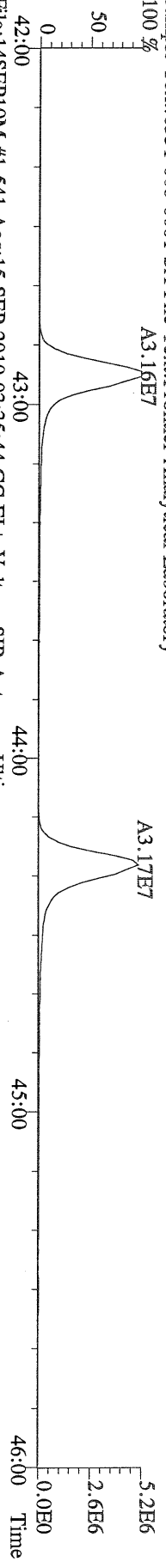




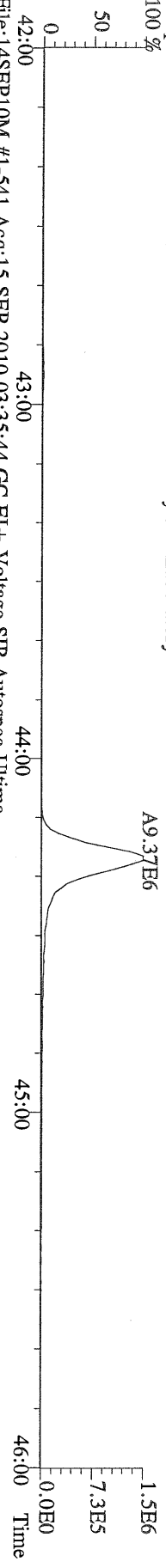
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423.7767 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



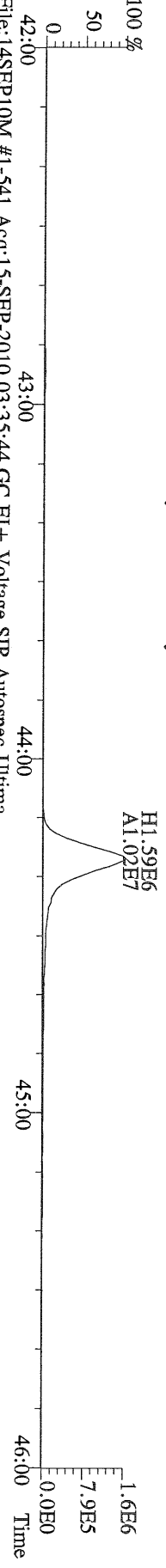
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425.7737 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



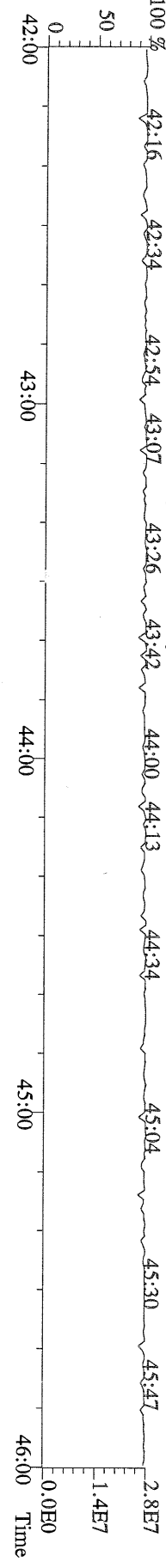
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435.8169 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
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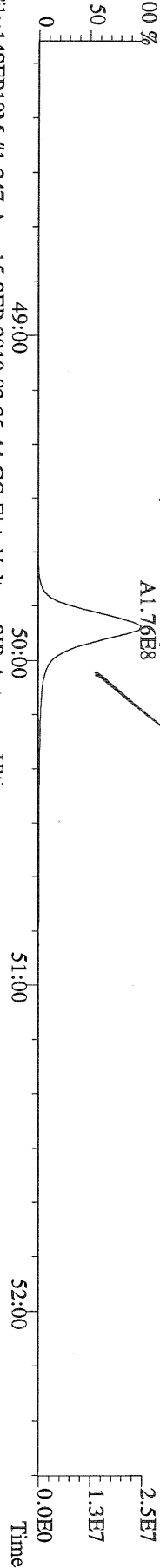
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437.8140 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
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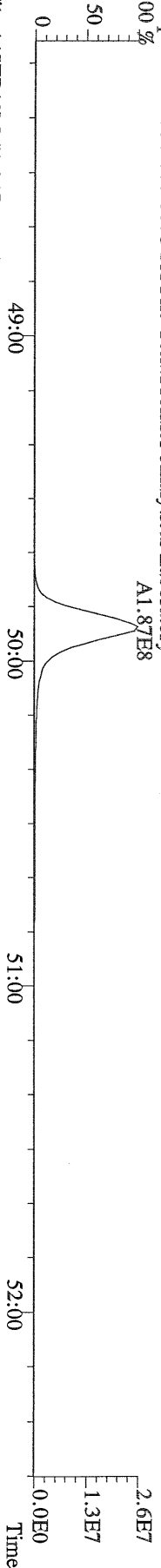
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430.9728 S:10 F:4 Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



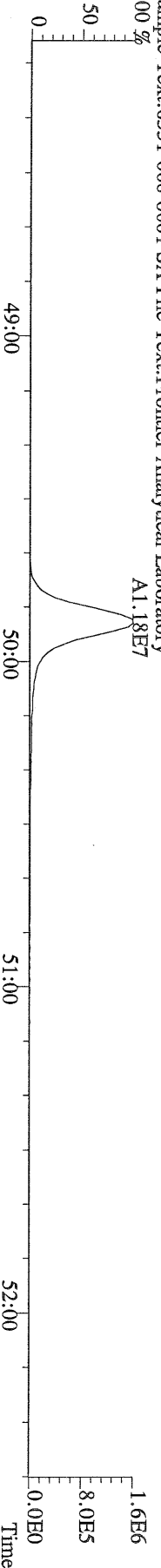
File:14SEP10M #1-347 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



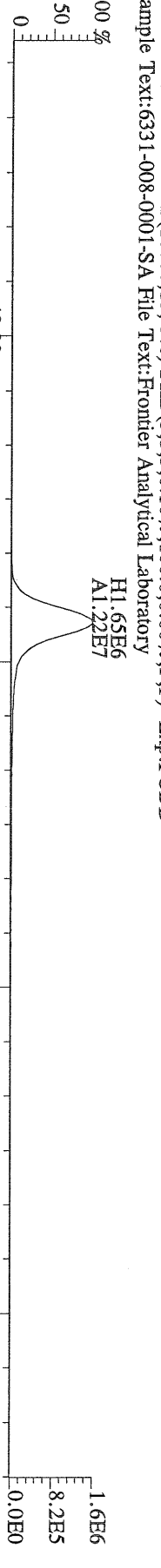
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459.7348 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



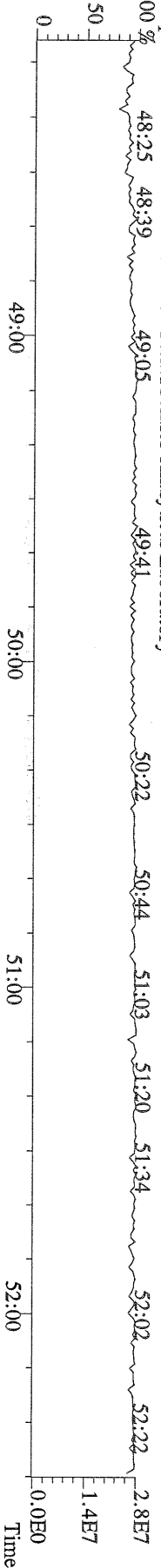
File:14SEP10M #1-347 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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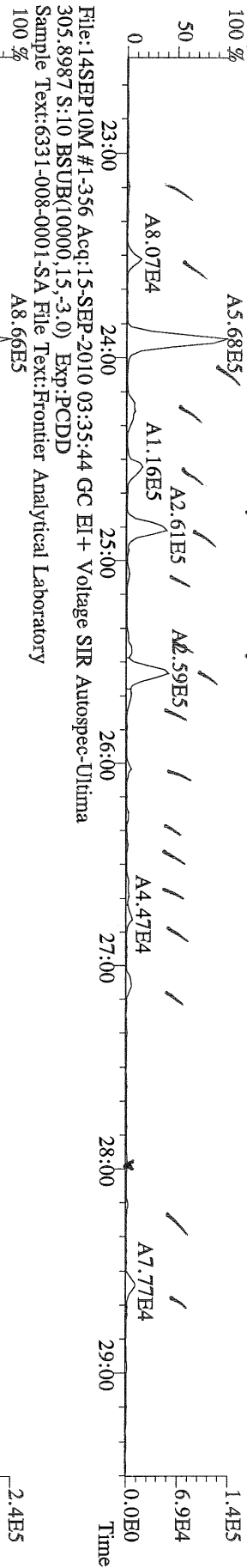
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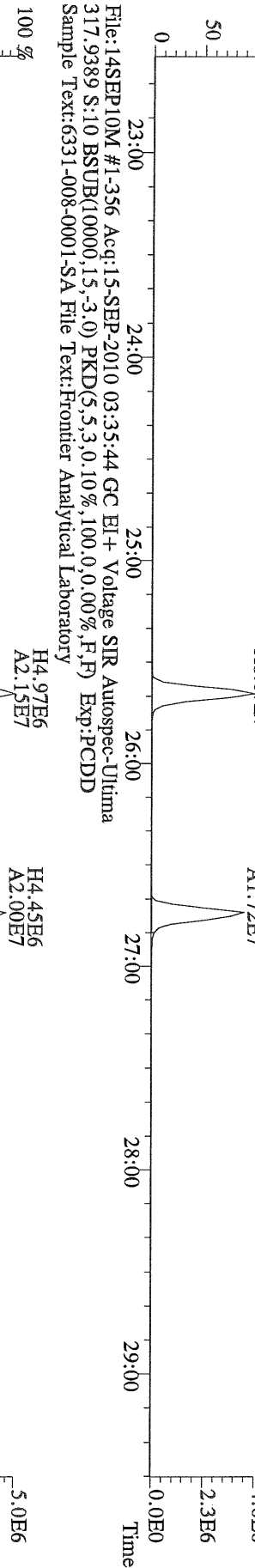
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454.9728 S:10 F:5 Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



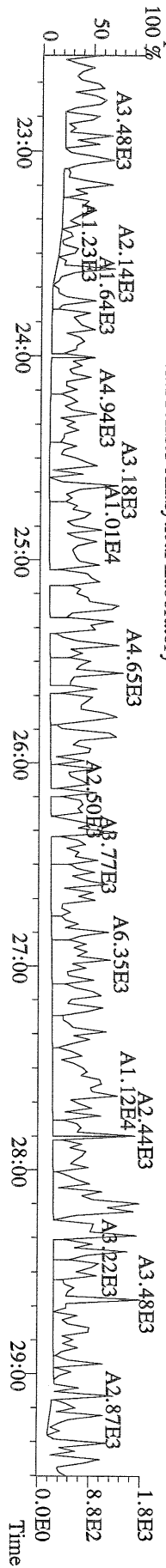
File:14SEP10M #1-356 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:10 BSUB(10000,15,-3.0) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



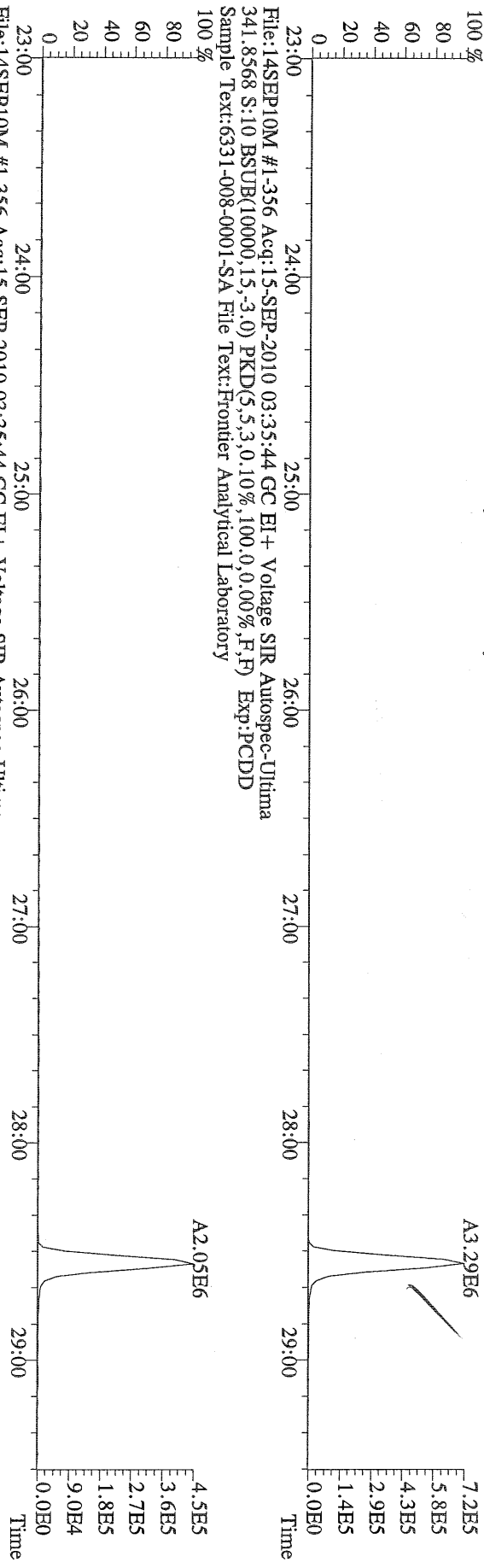
File:14SEP10M #1-356 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:10 BSUB(10000,15,50.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



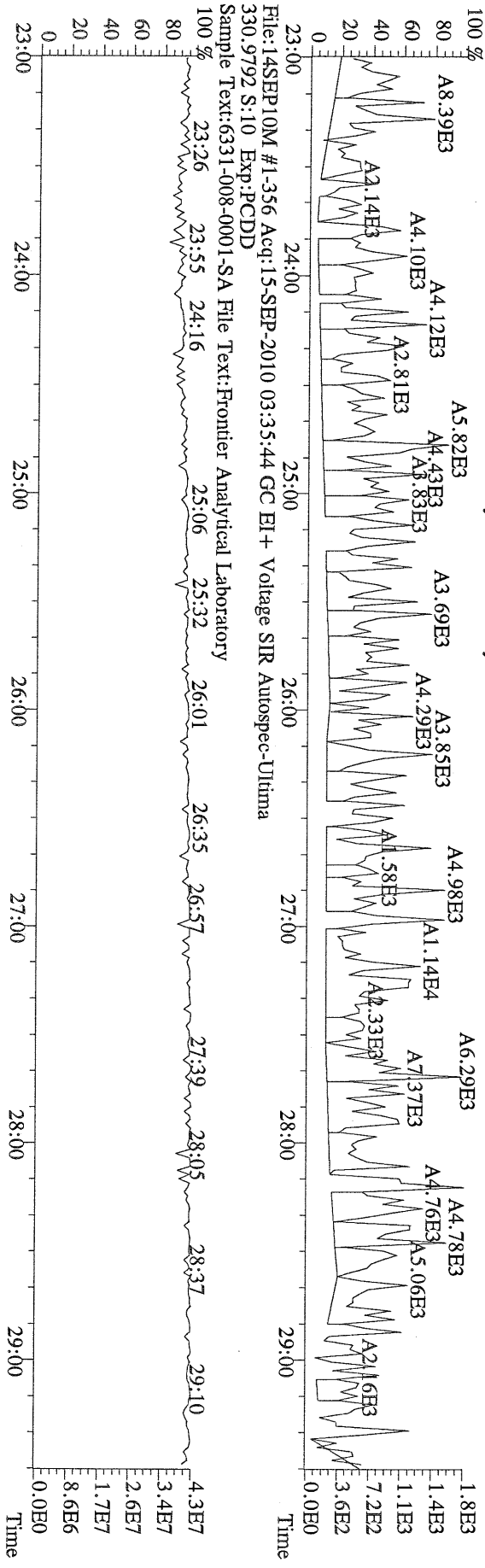
File:14SEP10M #1-356 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



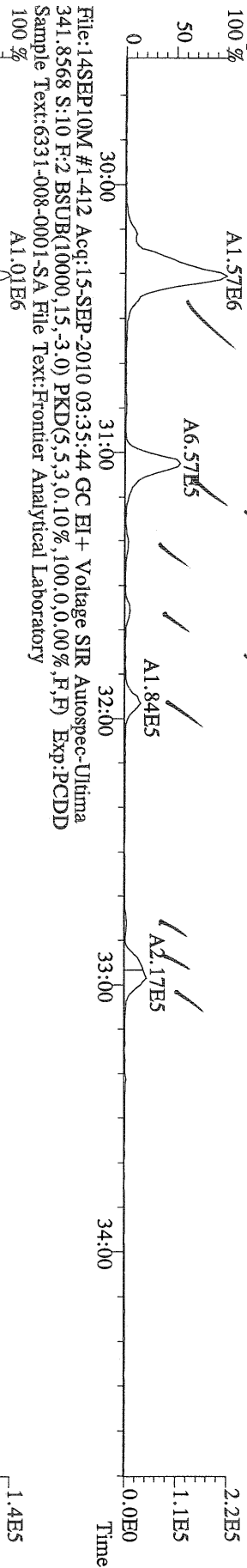
File:14SEP10M #1-356 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



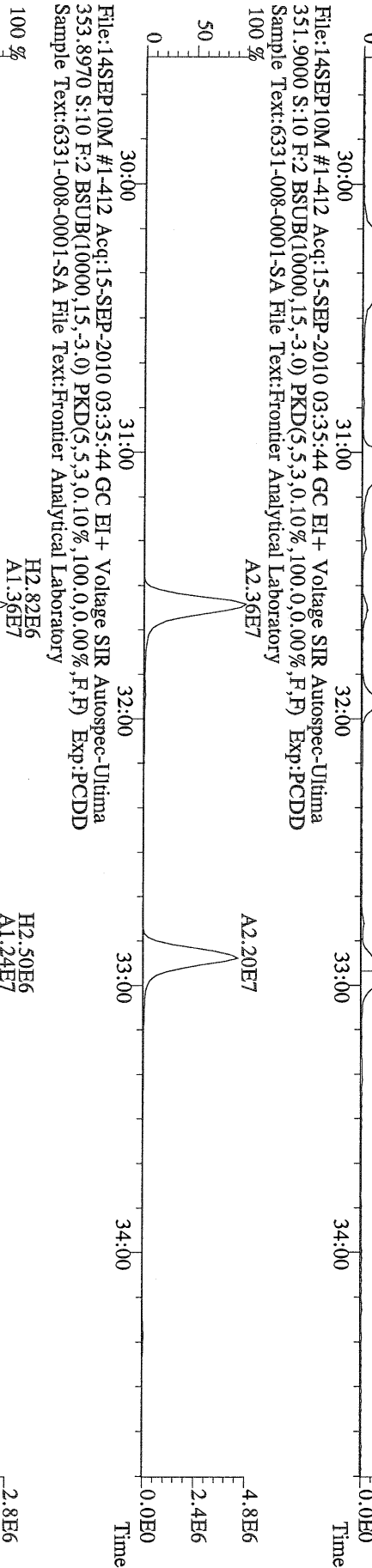
File:14SEP10M #1-356 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



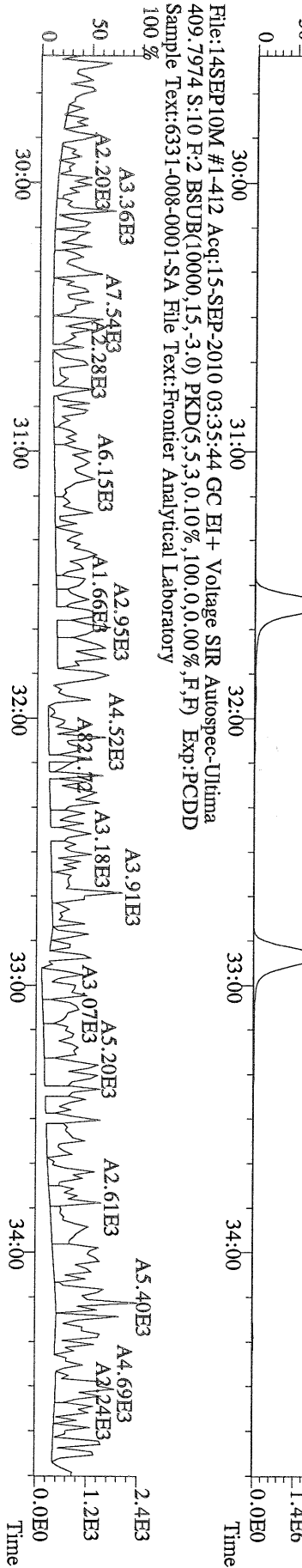
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339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:P:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



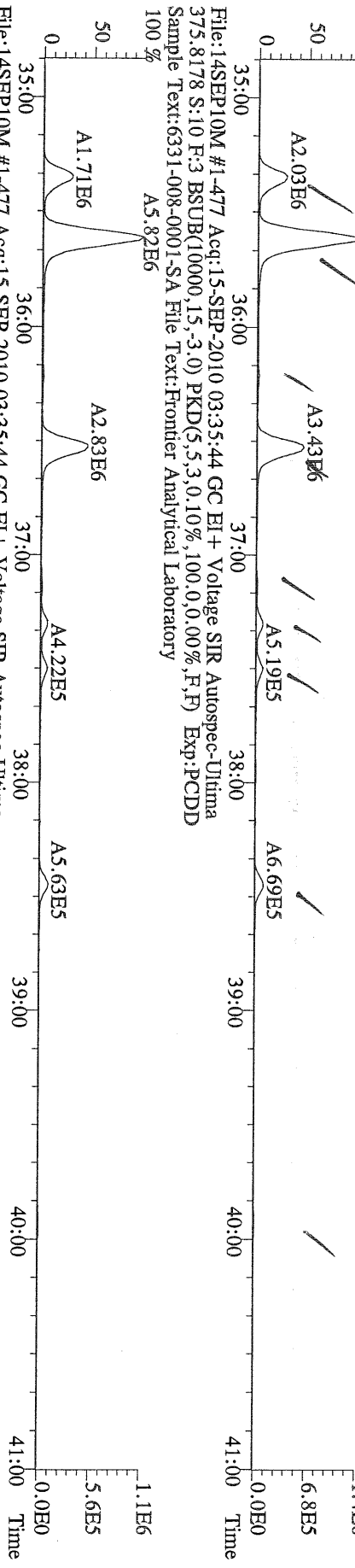
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351.9000 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:P:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



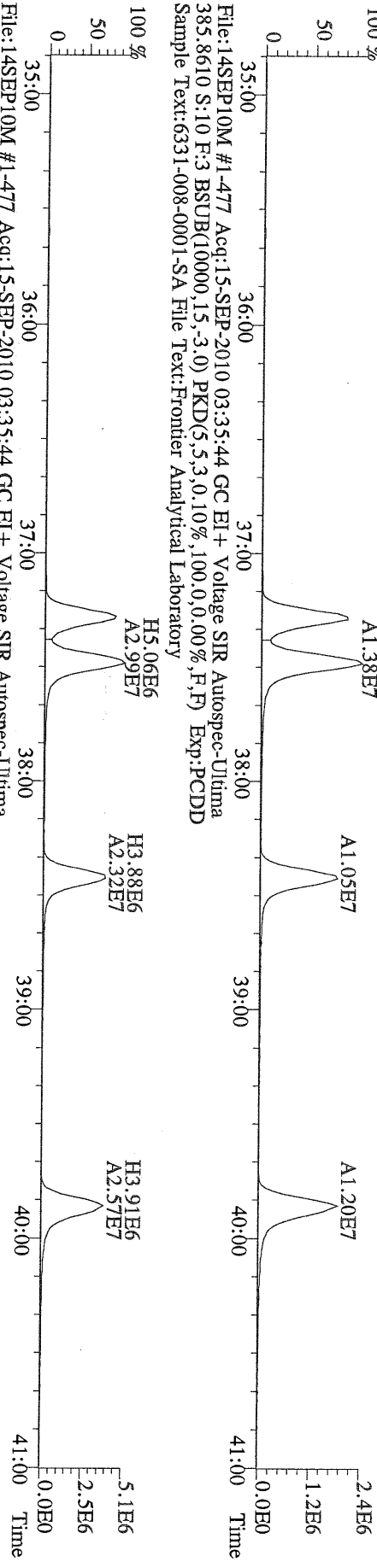
File:14SEP10M #1-412 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
409.7974 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:P:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



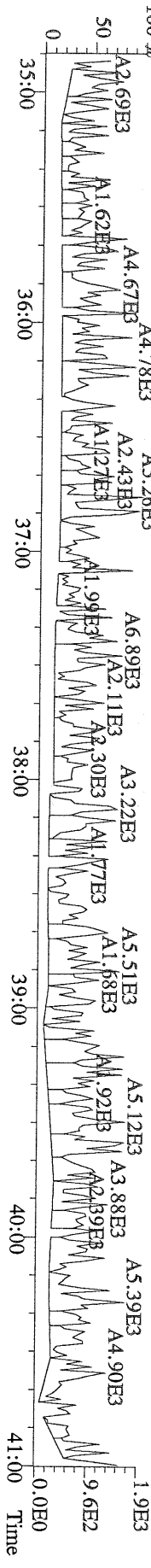
File:14SEP10M #1-477 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



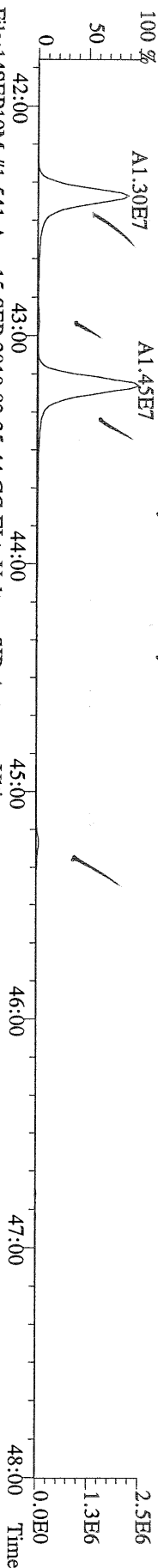
File:14SEP10M #1-477 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
383.8639 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



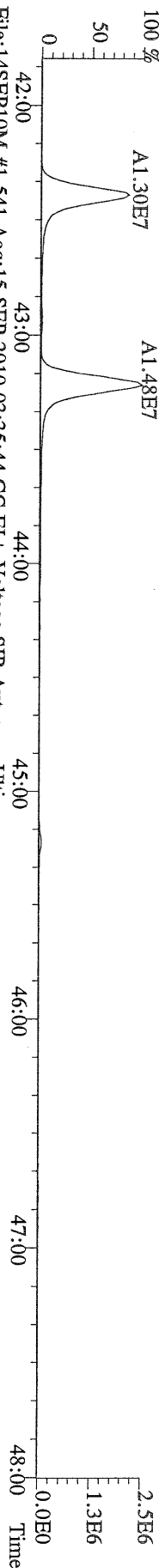
File:14SEP10M #1-477 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
445.7555 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



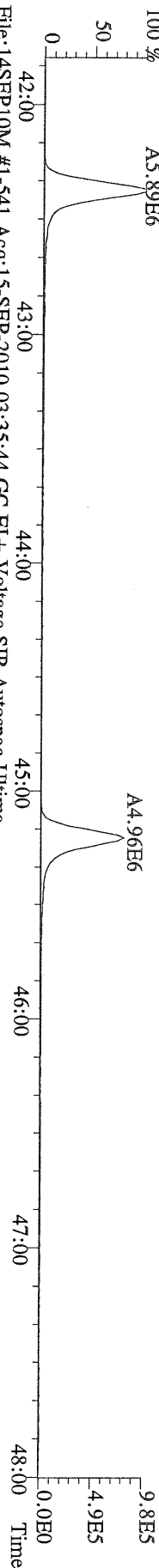
File:14SEP10M #1-541 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



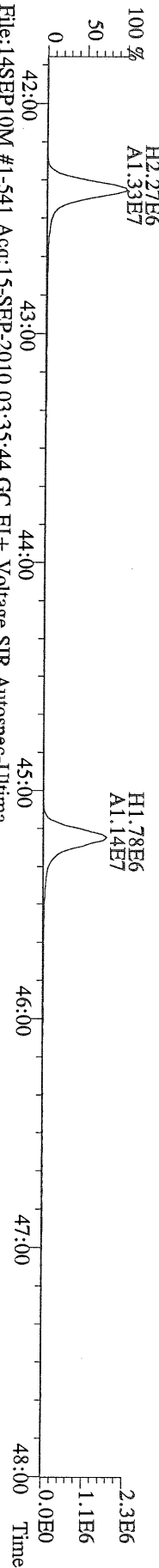
File:14SEP10M #1-541 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 409.7788 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



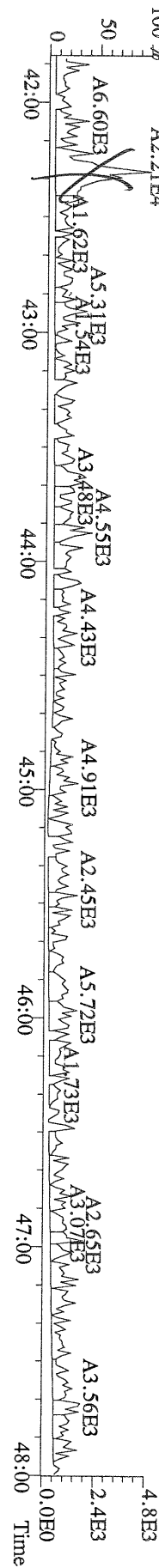
File:14SEP10M #1-541 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 417.8253 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



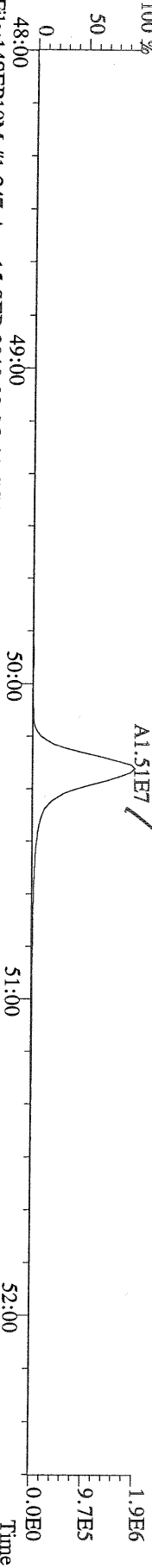
File:14SEP10M #1-541 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 419.8220 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



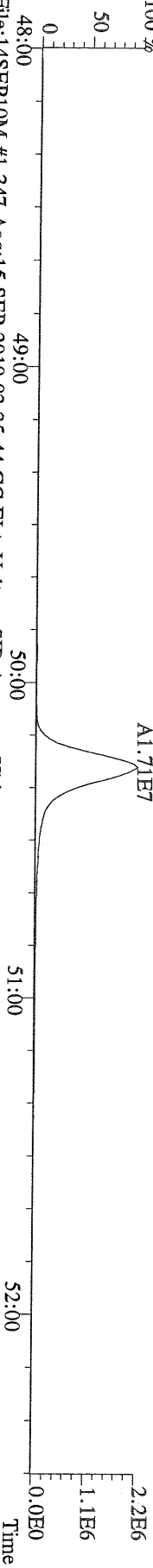
File:14SEP10M #1-541 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
 479.7165 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



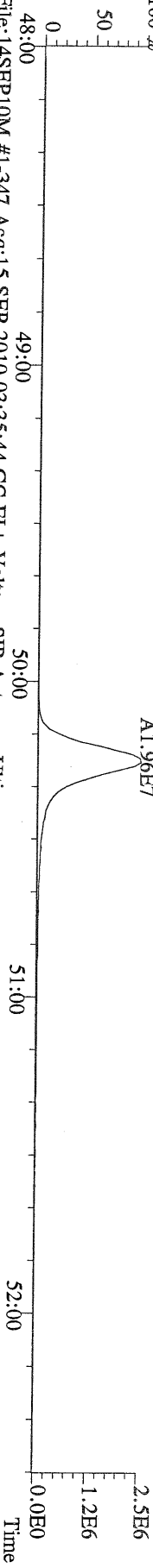
File:14SEP10M #1-347 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %



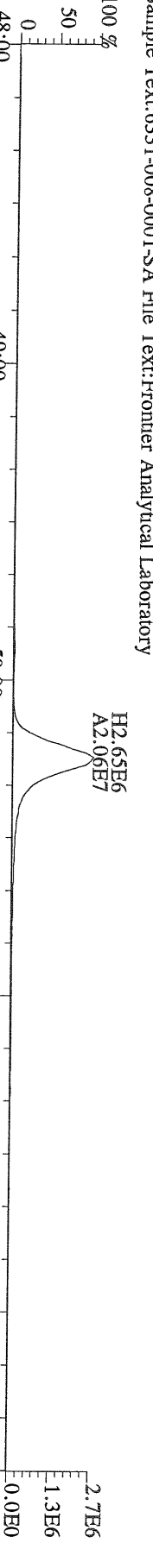
File:14SEP10M #1-347 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %



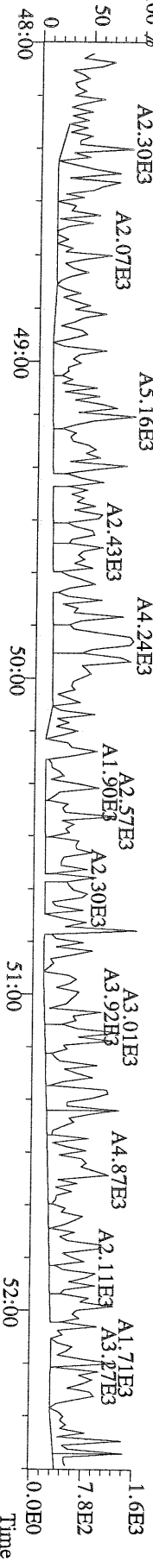
File:14SEP10M #1-347 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:14SEP10M #1-347 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-347 Acq:15-SEP-2010 03:35:44 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %







Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 18

File: 14SEP10M

S: 11 I: 1 F: 1

Acquired: 15-SEP-10 04:31:07

Total Concentration: 0.654

Unnamed Concentration: 0.654

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
25:42	1.93e+04	2.23e+04	0.87 y	4.16e+04	0.654	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 18

File: 14SEP10M

S: 11 I: 1 F: 3

Acquired: 15-SEP-10 04:31:07

Total Concentration: 1.78

Unnamed Concentration: 1.777

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	2.90e+04	2.05e+04	1.42 y	4.94e+04	0.758	
37:35	3.88e+04	2.78e+04	1.40 y	6.65e+04	1.02	

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 18

File: 14SEP10M

S: 11 I: 1 F: 4

Acquired: 15-SEP-10 04:31:07

Total Concentration: 8.95

Unnamed Concentration: 4.801

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:55	1.42e+05	1.58e+05	0.90 y	3.00e+05	4.80	
44:18	1.22e+05	1.37e+05	0.89 y	2.59e+05	4.15	1,2,3,4,6,7,8-HpCDD

Totals class: Total Hexa-Furans

Entry #: 45

Run: 18

File: 14SEP10M

S: 11 I: 1 F: 3

Acquired: 15-SEP-10 04:31:07

Total Concentration: 0.903

Unnamed Concentration: 0.903

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:38	1.91e+04	1.71e+04	1.12 y	3.62e+04	0.451	
36:32	1.99e+04	1.64e+04	1.22 y	3.63e+04	0.452	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 18

File: 14SEP10M

S: 11 I: 1 F: 4

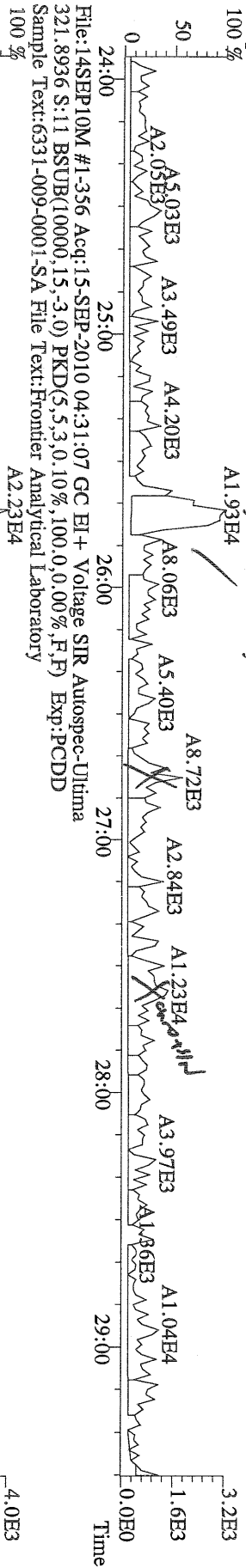
Acquired: 15-SEP-10 04:31:07

Total Concentration: 3.03

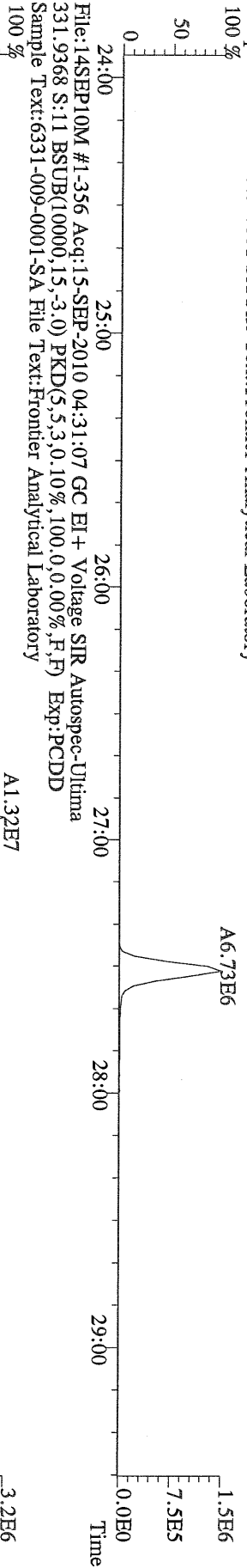
Unnamed Concentration: 1.833

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:24	3.78e+04	3.32e+04	1.14 y	7.10e+04	1.20	1,2,3,4,6,7,8-HpCDF
43:13	5.14e+04	5.08e+04	1.01 y	1.02e+05	1.83	

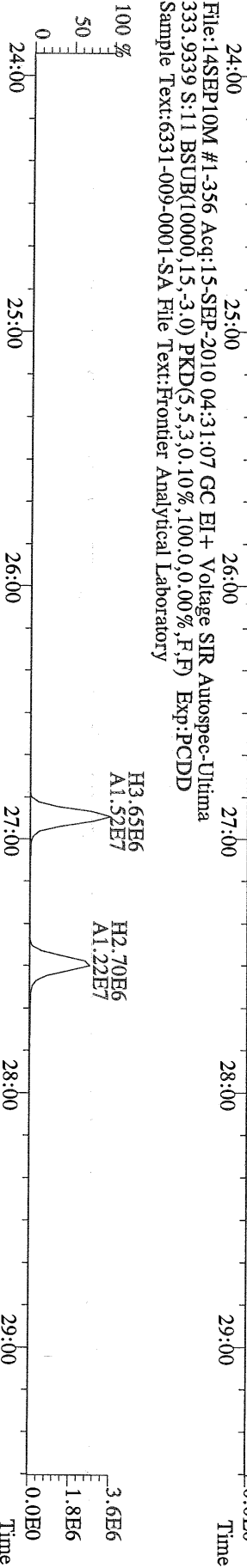
File:14SEP10M #1-356 Acq:15-SEP-2010 04:31:07 GC EI + Voltage SRR Autospec-Ultima  
 319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



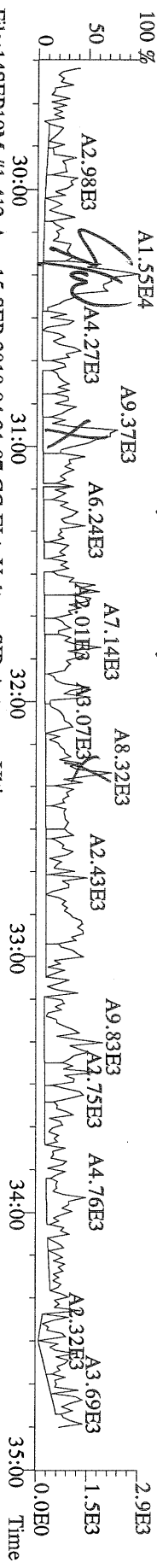
File:14SEP10M #1-356 Acq:15-SEP-2010 04:31:07 GC EI + Voltage SRR Autospec-Ultima  
 321.8936 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



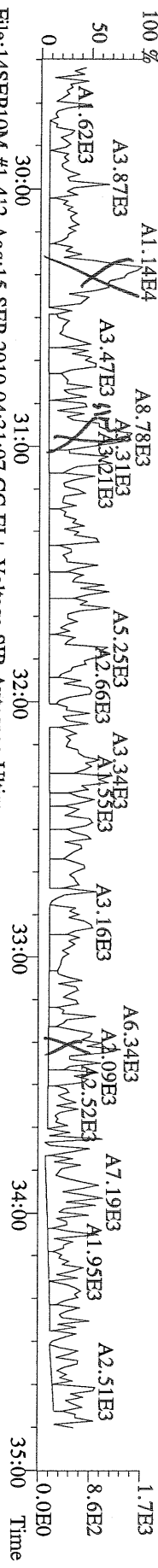
File:14SEP10M #1-356 Acq:15-SEP-2010 04:31:07 GC EI + Voltage SRR Autospec-Ultima  
 331.9368 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



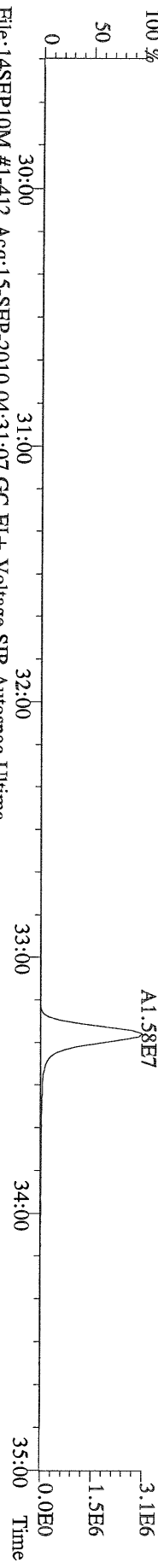
File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



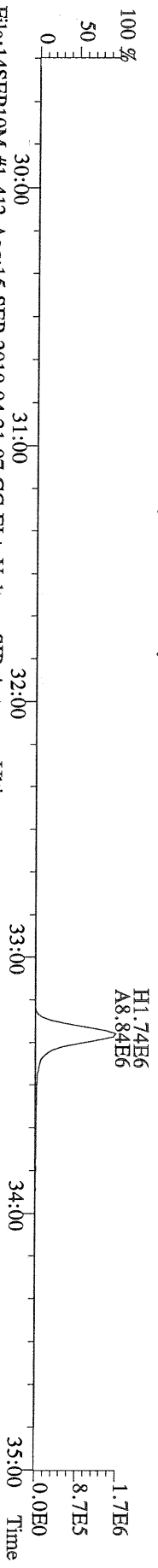
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357.8517 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



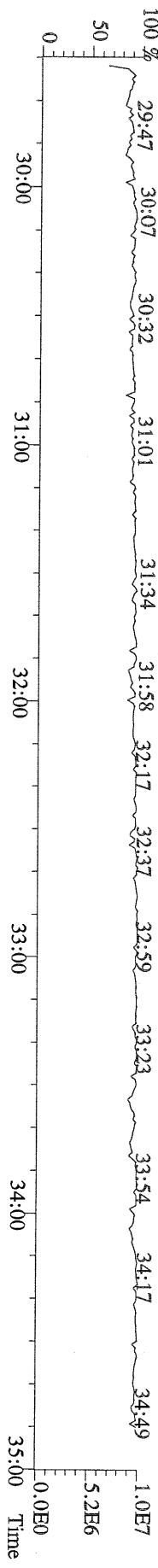
File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
369.8919 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory

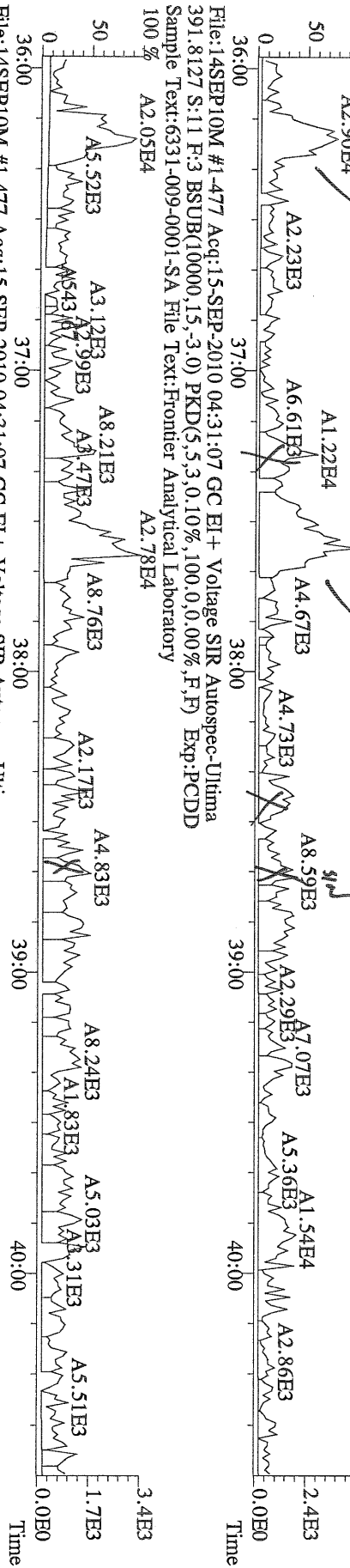


File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
366.9792 S:11 F:2 Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory

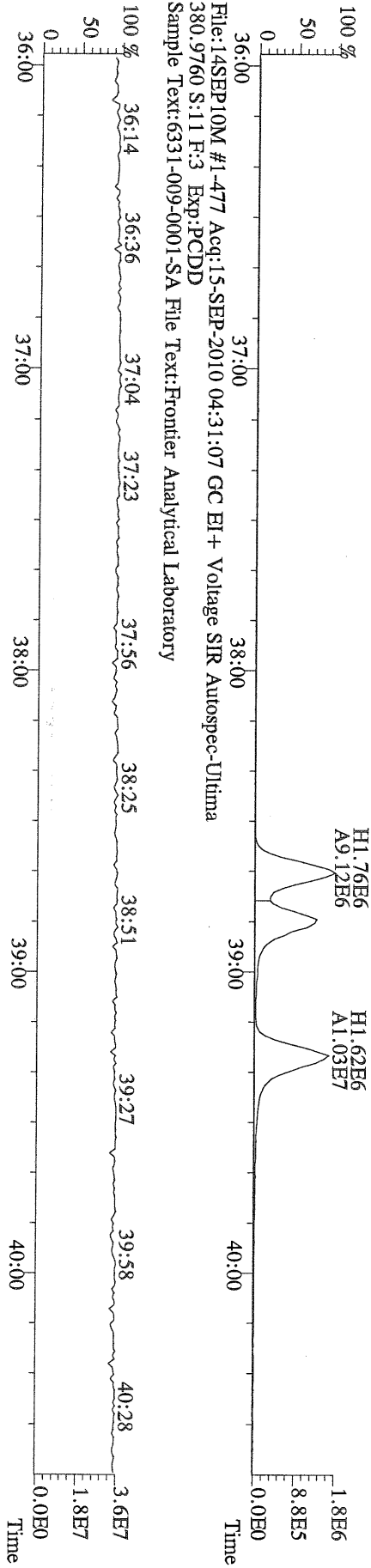




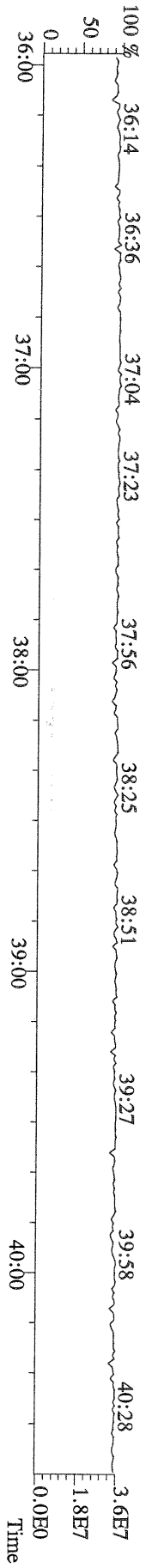
File:14SEP10M #1-477 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
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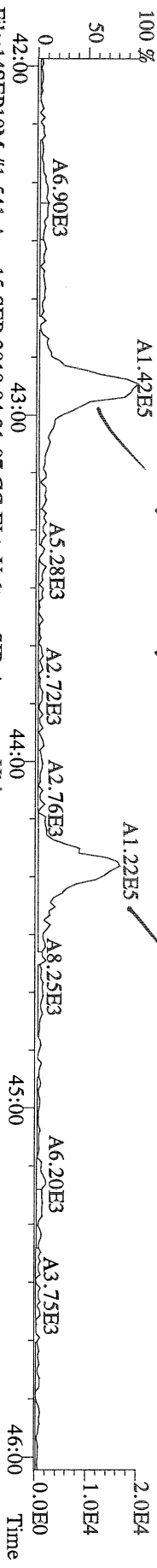
File:14SEP10M #1-477 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



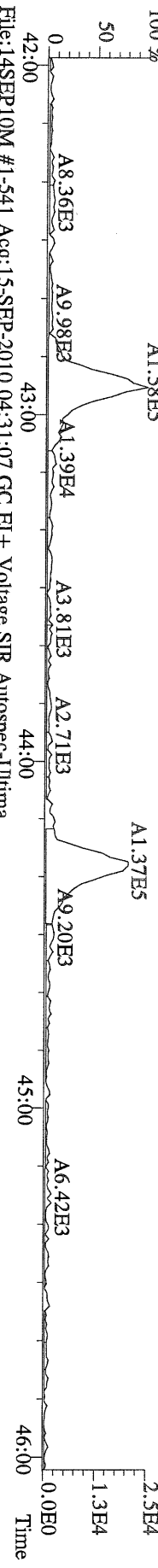
File:14SEP10M #1-477 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



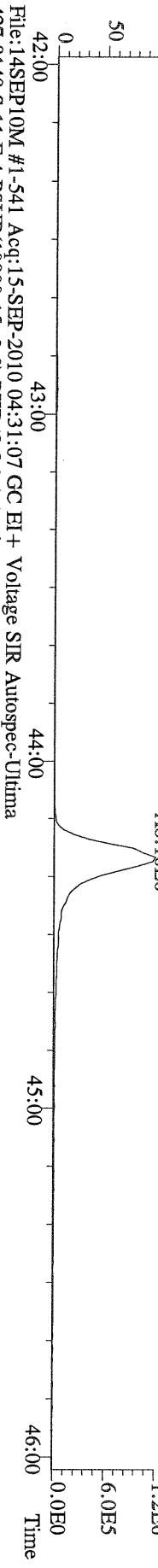
File:14SEP10M #1-541 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



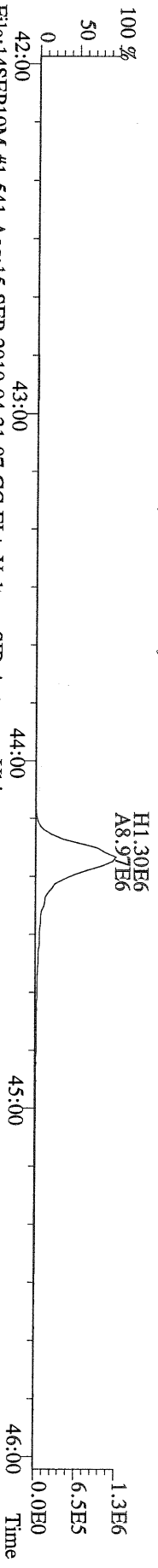
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425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



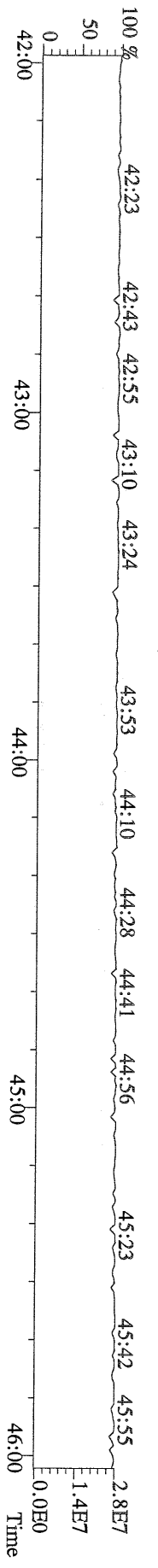
File:14SEP10M #1-541 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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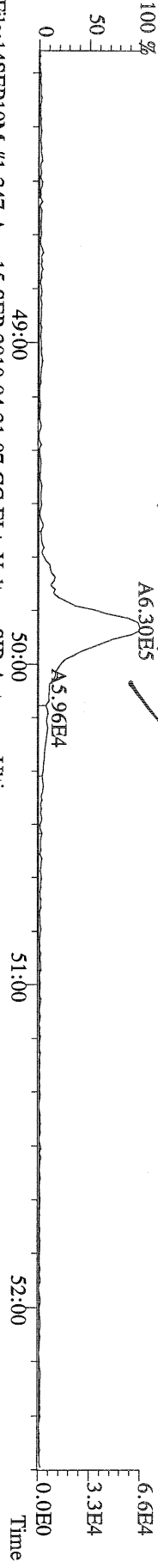
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437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



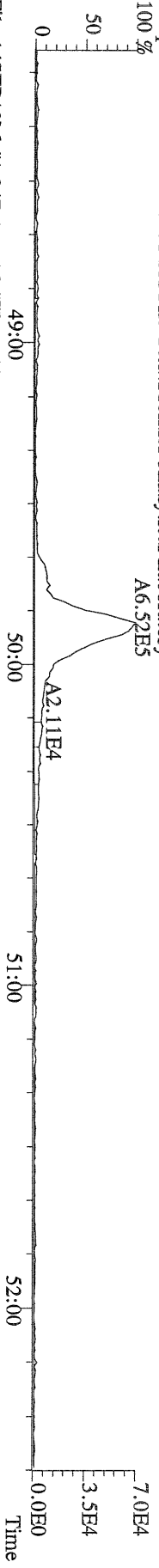
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430.9728 S:11 F:4 Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



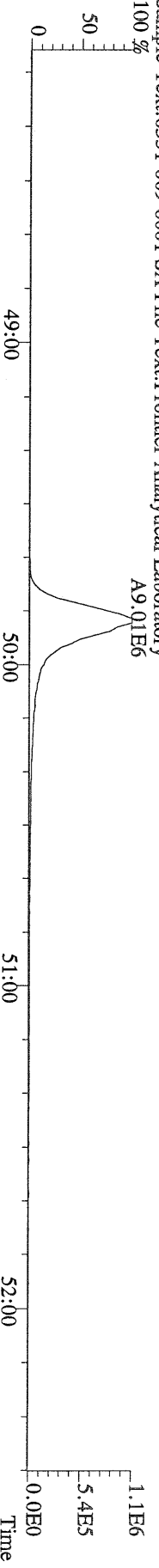
File:14SEP10M #1-347 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



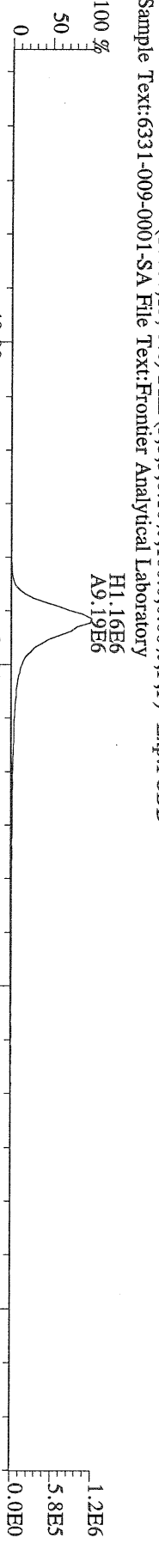
File:14SEP10M #1-347 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



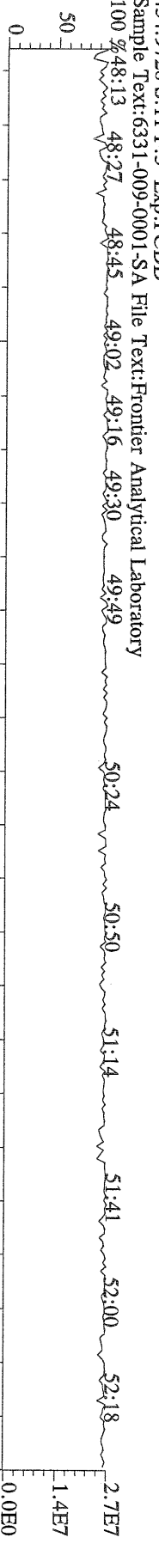
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469.7780 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



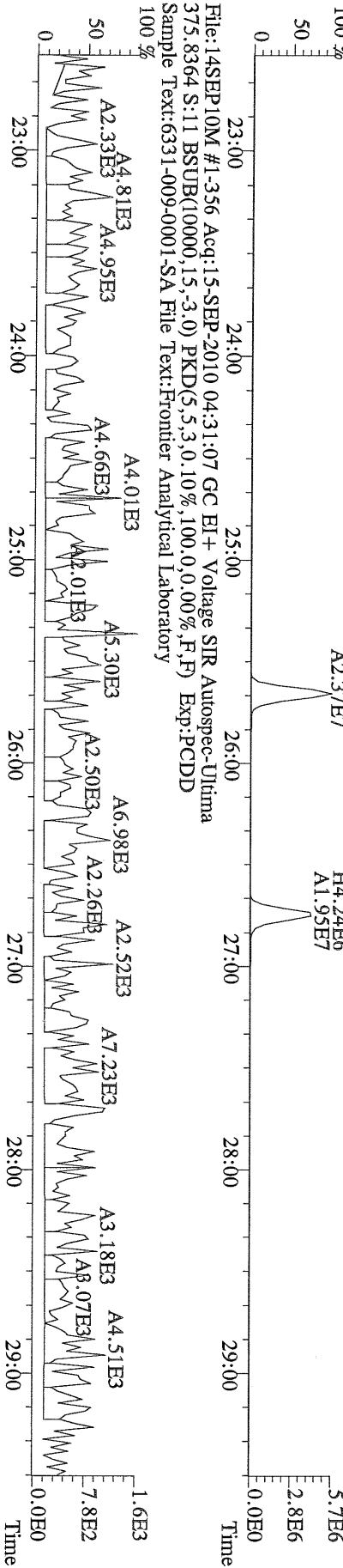
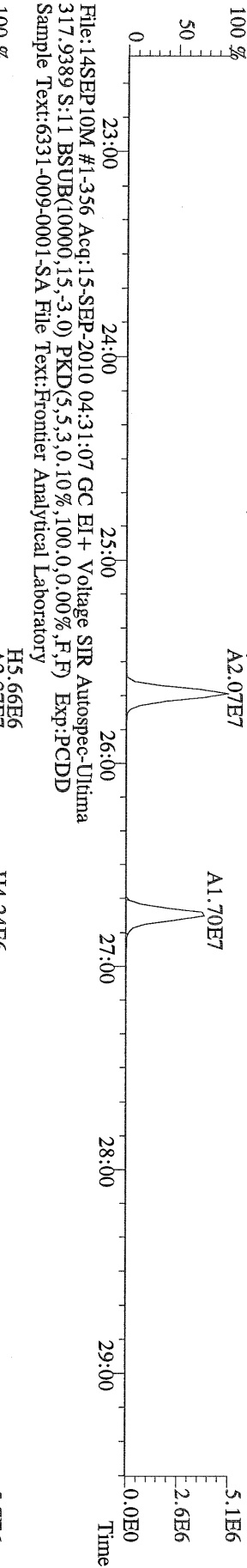
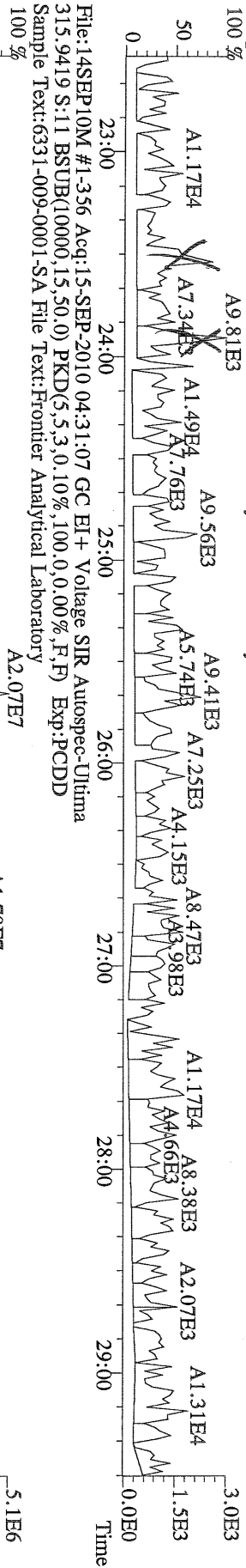
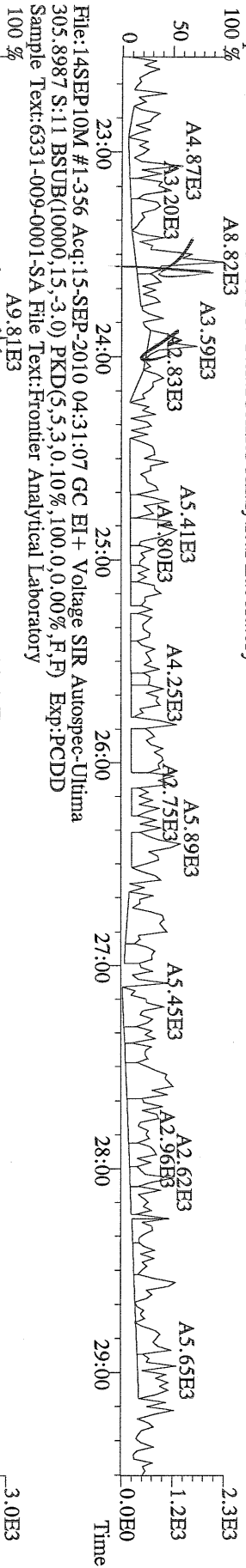
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471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



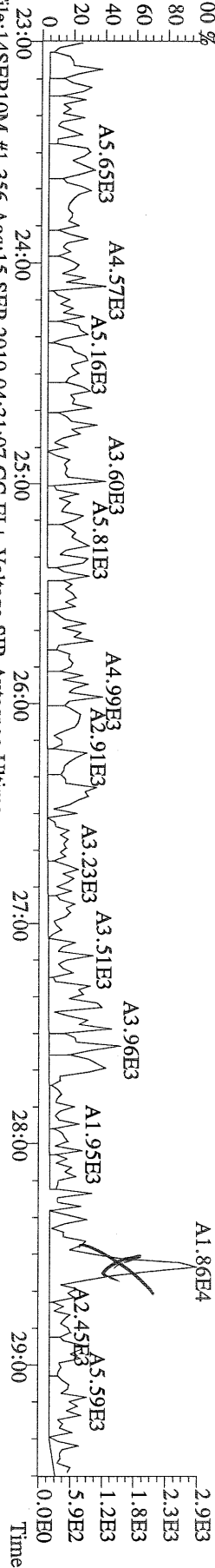
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454.9728 S:11 F:5 Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



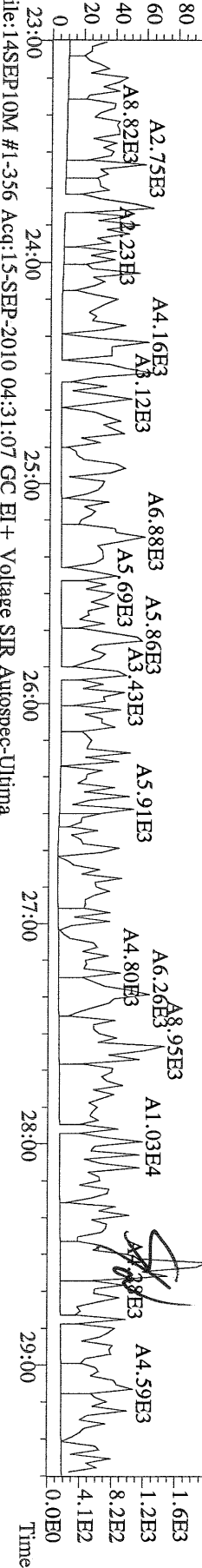
File:14SEP10M #1-356 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Utima  
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



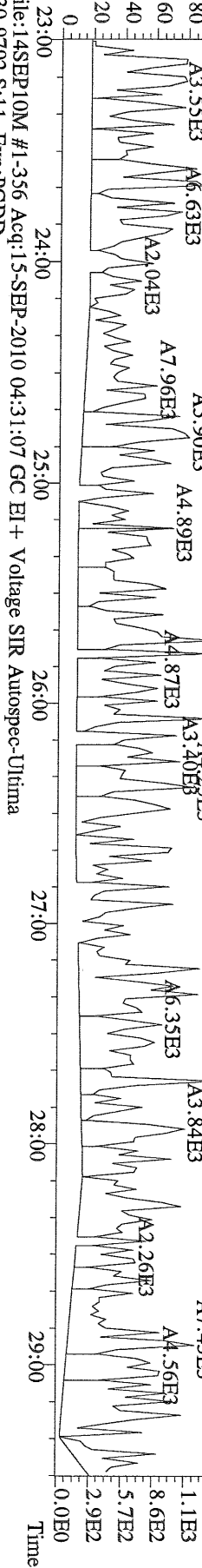
File:14SEP10M #1-356 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



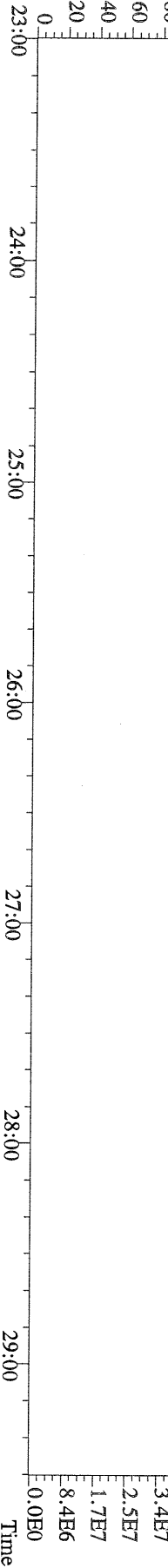
File:14SEP10M #1-356 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



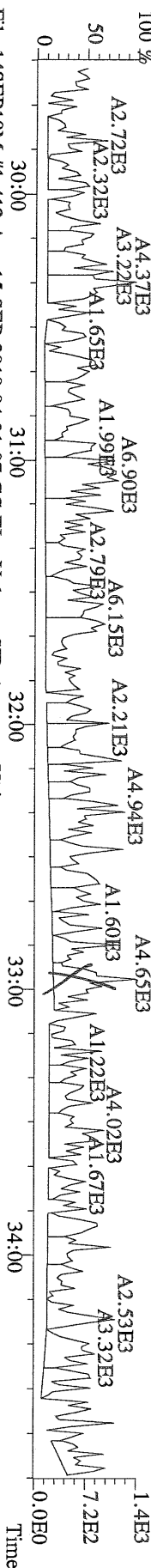
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 409.7974 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



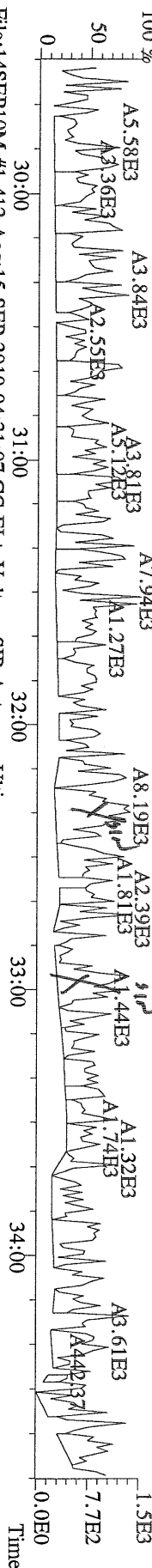
File:14SEP10M #1-356 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:11 Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



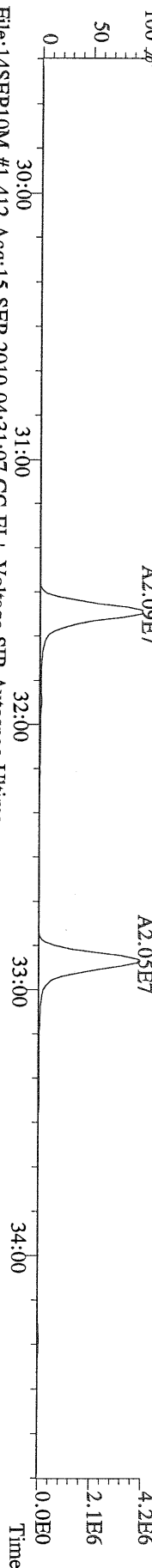
File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



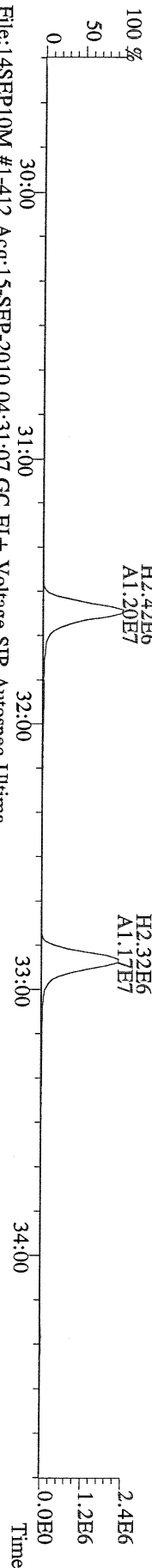
File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



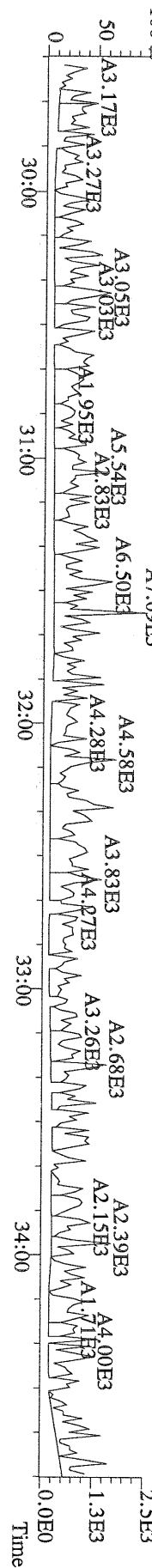
File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



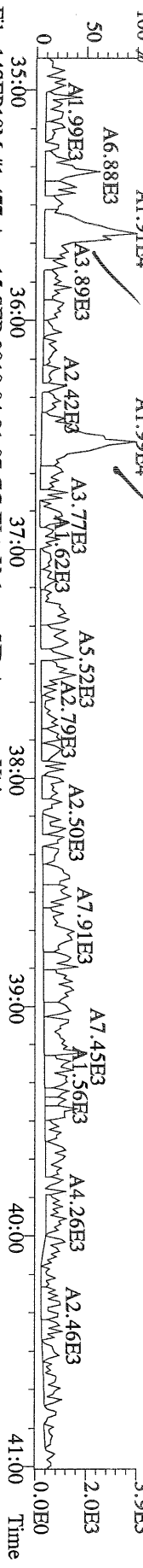
File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



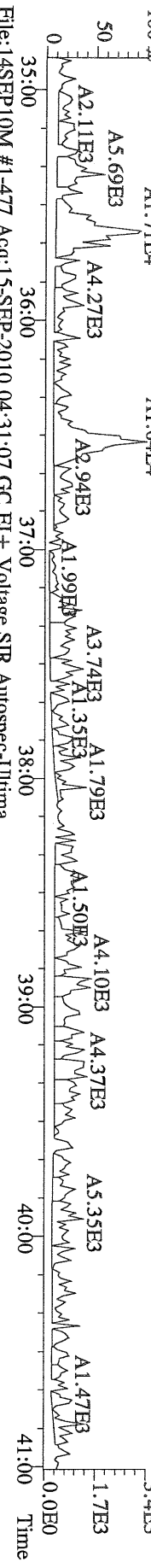
File:14SEP10M #1-412 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



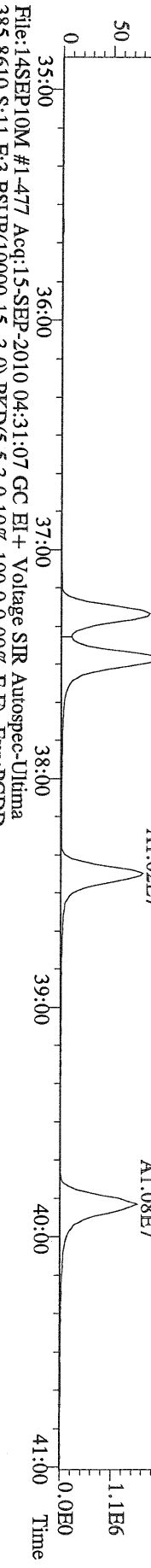
File:14SEP10M #1-477 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:11 F:3 BSUB(10000,15,-3,0) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



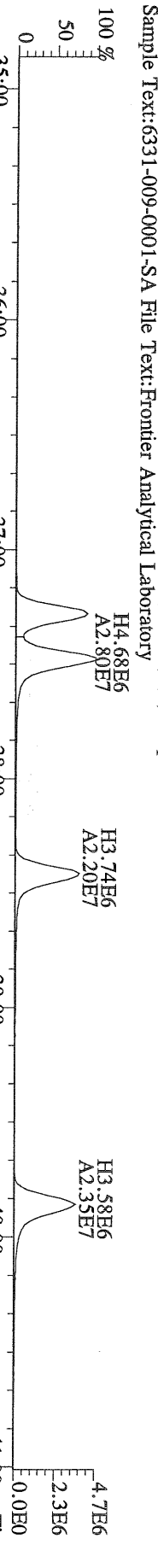
File:14SEP10M #1-477 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 375.8178 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



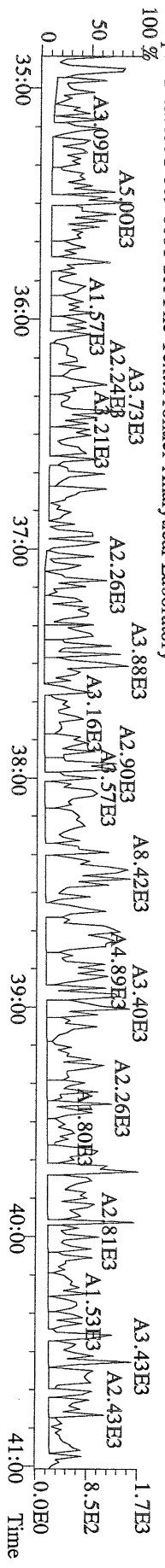
File:14SEP10M #1-477 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



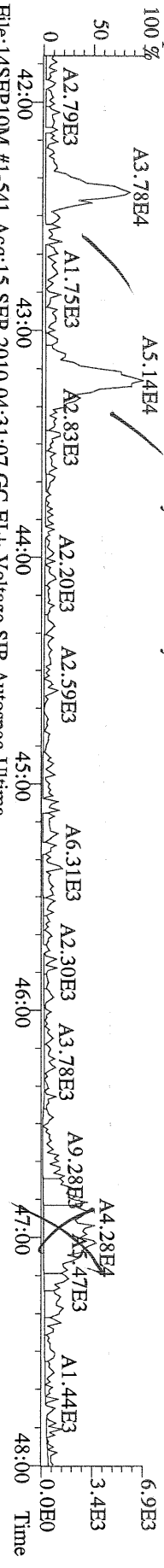
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 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



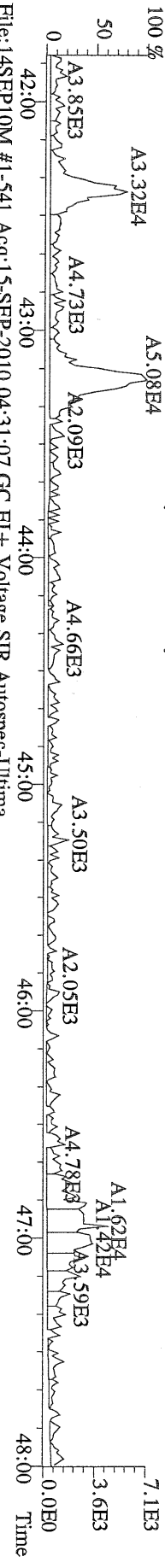
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 445.7555 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



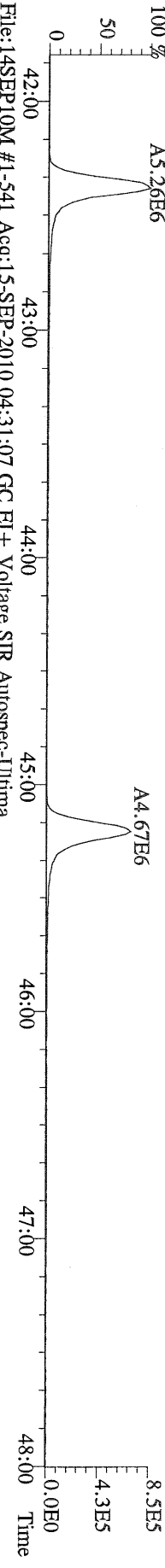
File:14SEP10M #1-541 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



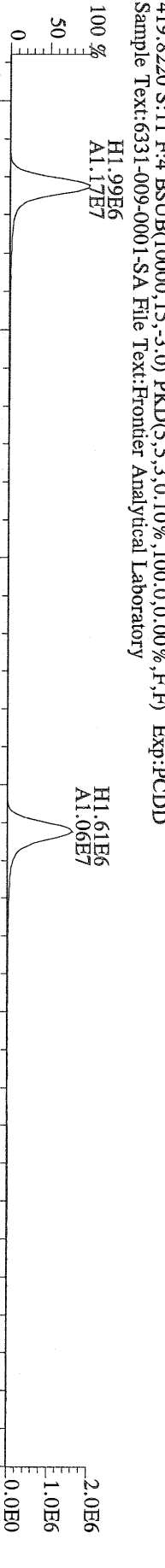
File:14SEP10M #1-541 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 409.7788 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



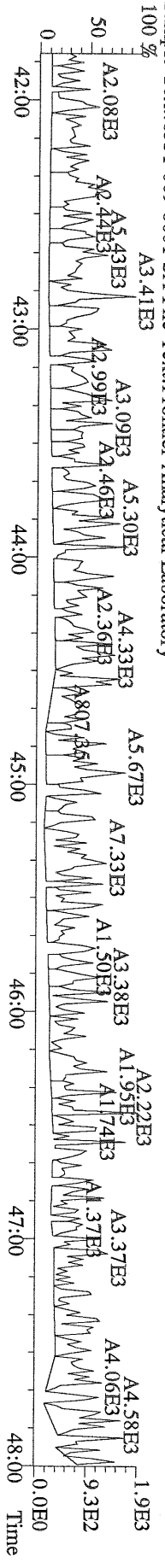
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 417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory



File:14SEP10M #1-541 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory

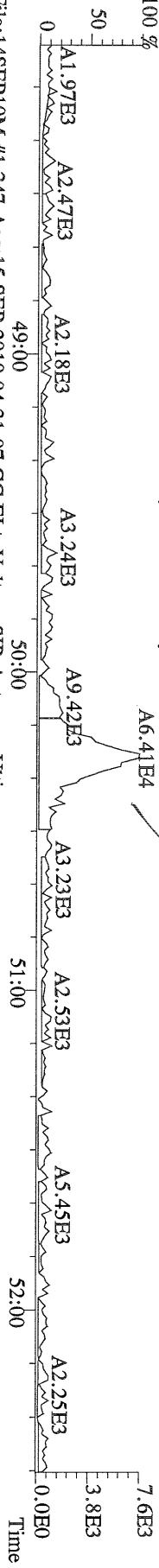


File:14SEP10M #1-541 Acq:15-SEP-2010 04:31:07 GC EI+ Voltage SIR Autospec-Ultima  
 479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6331-009-0001-SA File Text:Frontier Analytical Laboratory

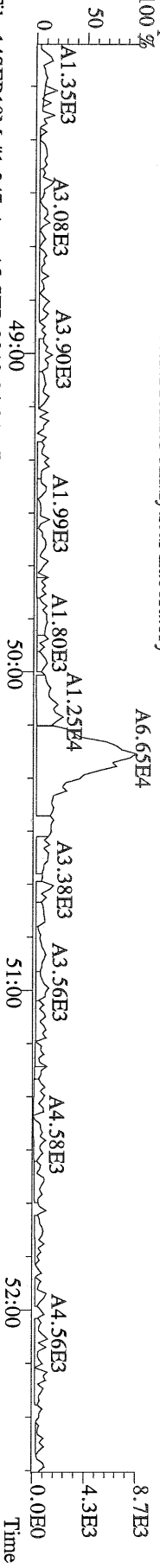




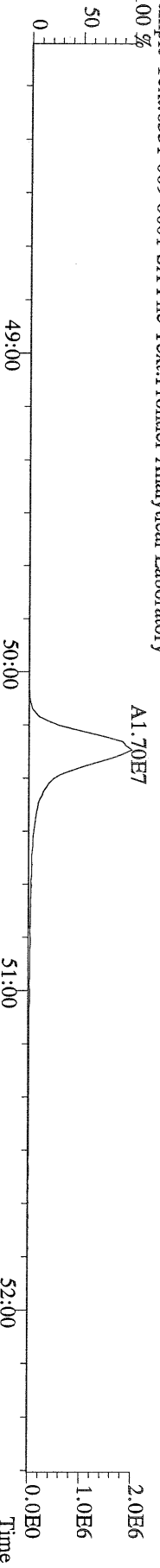
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441.7428 S:11 F:5 BSUB(10000,15,-3.0) Exp:PCDD  
Sample Text: 6331-009-0001-SA File Text: Frontier Analytical Laboratory



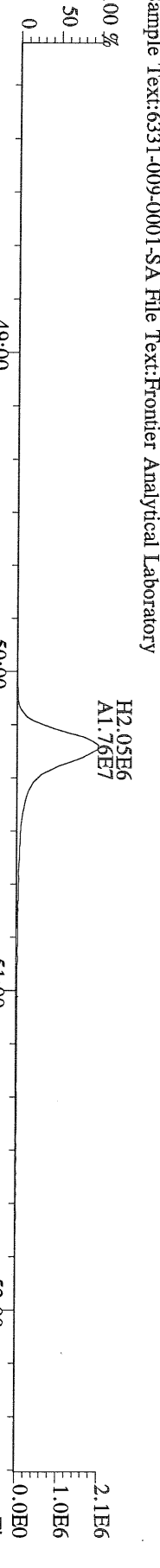
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443.7398 S:11 F:5 BSUB(10000,15,-3.0) Exp:PCDD  
Sample Text: 6331-009-0001-SA File Text: Frontier Analytical Laboratory



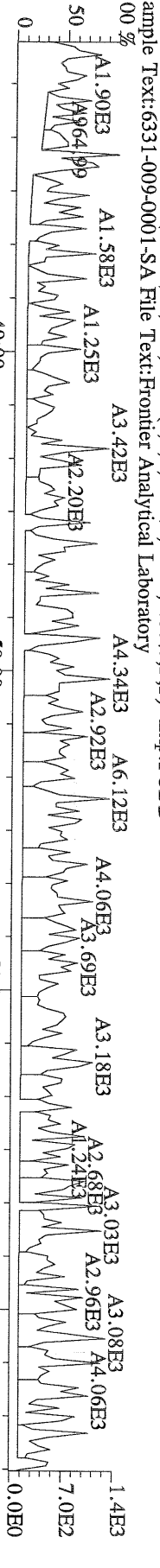
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453.7831 S:11 F:5 BSUB(10000,15,-3.0) Exp:PCDD  
Sample Text: 6331-009-0001-SA File Text: Frontier Analytical Laboratory



File: 14SEP10M #1-347 Acq: 15-SEP-2010 04:31:07 GC EI + Voltage SIR Autospec-Utima  
455.7801 S:11 F:5 BSUB(10000,15,-3.0) Exp:PCDD  
Sample Text: 6331-009-0001-SA File Text: Frontier Analytical Laboratory



File: 14SEP10M #1-347 Acq: 15-SEP-2010 04:31:07 GC EI + Voltage SIR Autospec-Utima  
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text: 6331-009-0001-SA File Text: Frontier Analytical Laboratory




Frontier Analytical Laboratory

Data Filename: 23AUG10M

Analyte:

Cal: PCDDFAL3-8-23-10

	Name	RRF	S. D.	%RSD	S3 RRF#1	S4 RRF#2	S5 RRF#3	S1 RRF#4	S6 RRF#5	S7 RRF#6
	2,3,7,8-TCDD	1.11	0.0404	3.63 %	1.07	1.09	1.06	1.16	1.13	1.14
	1,2,3,7,8-PeCDD	1.10	0.0456	4.14 %	1.03	1.08	1.09	1.11	1.15	1.15
	1,2,3,4,7,8-HxCDD	1.37	0.0589	4.29 %	1.40	1.30	1.31	1.36	1.44	1.42
	1,2,3,6,7,8-HxCDD	1.37	0.0522	3.80 %	1.30	1.38	1.39	1.32	1.43	1.42
	1,2,3,7,8,9-HxCDD	1.36	0.0713	5.24 %	1.29	1.31	1.37	1.30	1.45	1.45
	1,2,3,4,6,7,8-HpCDD	1.45	0.0199	1.37 %	1.43	1.47	1.45	1.44	1.45	1.48
	OCDD	1.43	0.0834	5.81 %	1.37	1.37	1.42	1.44	1.42	1.59
	2,3,7,8-TCDF	1.50	0.0738	4.91 %	1.57	1.60	1.50	1.40	1.47	1.48
	1,2,3,7,8-PeCDF	0.94	0.0427	4.53 %	0.92	0.88	0.92	0.96	0.99	0.99
	2,3,4,7,8-PeCDF	0.94	0.0501	5.35 %	0.88	0.90	0.91	0.93	0.99	1.00
	1,2,3,4,7,8-HxCDF	0.93	0.0529	5.70 %	0.90	0.88	0.90	0.91	0.99	1.00
	1,2,3,6,7,8-HxCDF	0.82	0.0486	5.91 %	0.75	0.79	0.82	0.83	0.87	0.88
	2,3,4,6,7,8-HxCDF	0.92	0.0553	6.02 %	0.87	0.86	0.92	0.89	0.98	0.99
	1,2,3,7,8,9-HxCDF	1.00	0.0728	7.30 %	0.90	0.94	0.99	1.00	1.08	1.08
	1,2,3,4,6,7,8-HpCDF	1.39	0.0804	5.78 %	1.28	1.33	1.37	1.39	1.49	1.47
	1,2,3,4,7,8,9-HpCDF	1.36	0.108	7.94 %	1.30	1.20	1.33	1.35	1.45	1.50
	OCDF	0.79	0.0651	8.29 %	0.73	0.72	0.75	0.79	0.86	0.87
	13C-2,3,7,8-TCDD	1.02	0.0764	7.46 %	0.98	0.98	0.97	0.98	1.15	1.08
	13C-1,2,3,7,8-PeCDD	0.84	0.0798	9.48 %	0.79	0.79	0.79	0.79	0.95	0.93
	13C-1,2,3,4,7,8-HxCDD	1.07	0.0580	5.40 %	1.06	1.03	1.06	1.01	1.12	1.16
	13C-1,2,3,6,7,8-HxCDD	1.01	0.0164	1.62 %	1.00	1.00	1.00	1.02	1.03	1.03
	13C-1,2,3,4,6,7,8-HpCDD	0.86	0.0467	5.45 %	0.82	0.82	0.84	0.83	0.90	0.93
	13C-OCDD	0.55	0.0456	8.36 %	0.52	0.51	0.52	0.52	0.58	0.63
	13C-2,3,7,8-TCDF	0.99	0.0775	7.79 %	0.97	0.92	0.93	0.96	1.12	1.05
	13C-1,2,3,7,8-PeCDF	0.84	0.0816	9.74 %	0.78	0.78	0.79	0.79	0.95	0.93
	13C-2,3,4,7,8-PeCDF	0.81	0.0728	8.97 %	0.77	0.75	0.76	0.78	0.91	0.90
	13C-1,2,3,4,7,8-HxCDF	1.85	0.0371	2.00 %	1.82	1.85	1.85	1.81	1.91	1.88
	13C-1,2,3,6,7,8-HxCDF	2.54	0.0434	1.71 %	2.55	2.51	2.52	2.51	2.62	2.51
	13C-2,3,4,6,7,8-HxCDF	2.01	0.0361	1.79 %	2.00	2.00	1.98	2.00	2.08	2.03
	13C-1,2,3,7,8,9-HxCDF	2.03	0.110	5.42 %	1.97	1.94	1.96	1.98	2.14	2.20
	13C-1,2,3,4,6,7,8-HpCDF	1.11	0.0532	4.80 %	1.08	1.05	1.12	1.07	1.16	1.18
	13C-1,2,3,4,7,8,9-HpCDF	0.80	0.0576	7.16 %	0.78	0.76	0.78	0.77	0.83	0.91
	13C-OCDF	1.08	0.0934	8.63 %	1.00	1.00	1.05	1.05	1.16	1.23
	37Cl-2,3,7,8-TCDD	0.69	0.0526	7.67 %	0.67	0.70	0.63	0.63	0.76	0.73
	13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
	13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
	13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
	Total Tetra-Dioxins	1.11	0.0404	3.63 %	1.07	1.09	1.06	1.16	1.13	1.14
	Total Penta-Dioxins	1.10	0.0456	4.14 %	1.03	1.08	1.09	1.11	1.15	1.15
	Total Hexa-Dioxins	1.37	0.0513	3.75 %	1.33	1.33	1.36	1.33	1.44	1.43
	Total Hepta-Dioxins	1.45	0.0199	1.37 %	1.43	1.47	1.45	1.44	1.45	1.48
	Total Tetra-Furans	1.50	0.0738	4.91 %	1.57	1.60	1.50	1.40	1.47	1.48
1st Fn.	Tot Penta-Furans	0.94	0.0454	4.83 %	0.90	0.89	0.91	0.95	0.99	0.99
	Total Penta-Furans	0.94	0.0454	4.83 %	0.90	0.89	0.91	0.95	0.99	0.99
	Total Hexa-Furans	0.91	0.0562	6.18 %	0.84	0.86	0.90	0.90	0.97	0.98
	Total Hepta-Furans	1.38	0.0885	6.43 %	1.29	1.28	1.36	1.37	1.47	1.48

Analyst: 

Date: 8/24/10

Run #1      Filename 23AUG10M  
Client ID: ST082310MO

S: 3      Acquired: 23-AUG-10 16:16:35      Cal: PCDDFAL3-8-23-10  
Analyte:      FAL ID: 1613 CSO 100511G

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk      2,3,7,8-TCDD	0.25	1.20e+05	0.73 y	27:27	-	1.07 y
2	Unk      1,2,3,7,8-PeCDD	1.25	4.64e+05	1.70 y	33:15	-	1.03 y
3	Unk      1,2,3,4,7,8-HxCDD	1.25	4.89e+05	1.42 y	38:38	-	1.40 y
4	Unk      1,2,3,6,7,8-HxCDD	1.25	4.28e+05	1.40 y	38:48	-	1.30 y
5	Unk      1,2,3,7,8,9-HxCDD	1.25	4.38e+05	1.41 y	39:14	-	1.29 y
6	Unk      1,2,3,4,6,7,8-HpCDD	1.25	3.88e+05	1.02 y	44:13	-	1.43 y
7	Unk      OCDD	2.50	4.72e+05	1.00 y	49:47	-	1.37 y
8	Unk      2,3,7,8-TCDF	0.25	2.81e+05	0.67 y	26:41	-	1.57 y
9	Unk      1,2,3,7,8-PeCDF	1.25	6.57e+05	1.49 y	31:31	-	0.916 y
10	Unk      2,3,4,7,8-PeCDF	1.25	6.24e+05	1.48 y	32:50	-	0.883 y
11	Unk      1,2,3,4,7,8-HxCDF	1.25	5.37e+05	1.22 y	37:14	-	0.897 y
12	Unk      1,2,3,6,7,8-HxCDF	1.25	6.28e+05	1.31 y	37:25	-	0.747 y
13	Unk      2,3,4,6,7,8-HxCDF	1.25	5.72e+05	1.25 y	38:22	-	0.870 y
14	Unk      1,2,3,7,8,9-HxCDF	1.25	5.81e+05	1.15 y	39:48	-	0.897 y
15	Unk      1,2,3,4,6,7,8-HpCDF	1.25	4.57e+05	1.04 y	42:19	-	1.28 y
16	Unk      1,2,3,4,7,8,9-HpCDF	1.25	3.34e+05	0.99 y	45:09	-	1.30 y
17	Unk      OCDF	2.50	4.80e+05	0.93 y	50:10	-	0.727 y
18	IS/RT      13C-2,3,7,8-TCDD	100.00	4.47e+07	0.85 y	27:24	-	0.976 y
19	IS      13C-1,2,3,7,8-PeCDD	100.00	3.60e+07	1.77 y	33:14	-	0.786 y
20	IS      13C-1,2,3,4,7,8-HxCDD	100.00	2.78e+07	1.26 y	38:36	-	1.06 y
21	IS      13C-1,2,3,6,7,8-HxCDD	100.00	2.63e+07	1.26 y	38:46	-	0.998 y
22	IS      13C-1,2,3,4,6,7,8-HpCDD	100.00	2.17e+07	1.00 y	44:13	-	0.825 y
23	IS      13C-OCDD	200.00	2.76e+07	1.00 y	49:46	-	0.523 y
24	IS      13C-2,3,7,8-TCDF	100.00	7.17e+07	0.88 y	26:40	-	0.975 y
25	IS      13C-1,2,3,7,8-PeCDF	100.00	5.74e+07	1.74 y	31:30	-	0.780 y
26	IS      13C-2,3,4,7,8-PeCDF	100.00	5.65e+07	1.74 y	32:49	-	0.769 y
27	IS      13C-1,2,3,4,7,8-HxCDF	100.00	4.79e+07	0.55 y	37:12	-	1.82 y
28	IS      13C-1,2,3,6,7,8-HxCDF	100.00	6.72e+07	0.56 y	37:24	-	2.55 y
29	IS      13C-2,3,4,6,7,8-HxCDF	100.00	5.26e+07	0.58 y	38:20	-	2.00 y
30	IS      13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.54 y	39:47	-	1.97 y
31	IS      13C-1,2,3,4,6,7,8-HpCDF	100.00	2.84e+07	0.42 y	42:18	-	1.08 y
32	IS      13C-1,2,3,4,7,8,9-HpCDF	100.00	2.05e+07	0.43 y	45:08	-	0.778 y
33	IS      13C-OCDF	200.00	5.28e+07	0.95 y	50:09	-	1.00 y
34	C/Up      37Cl-2,3,7,8-TCDD	0.25	7.69e+04		27:26	-	0.671 y
35	RS      13C-1,2,3,4-TCDD	100.00	4.58e+07	0.85 y	26:50	4.58e+05	- n
36	RS      13C-1,2,3,4-TCDF	100.00	7.35e+07	0.87 y	25:35	7.35e+05	- n
37	RS/RT      13C-1,2,3,7,8,9-HxCDD	100.00	2.64e+07	1.27 y	39:12	2.64e+05	- n
38	Tot      Total Tetra-Dioxins	0.00	-	- n	-	-	1.07 y
39	Tot      Total Penta-Dioxins	0.00	-	- n	-	-	1.03 y
40	Tot      Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot      Total Hepta-Dioxins	0.00	-	- n	-	-	1.43 y
42	Tot      Total Tetra-Furans	0.00	-	- n	-	-	1.57 y
43	Tot      1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.899 y
44	Tot      Total Penta-Furans	0.00	-	- n	-	-	0.899 y
45	Tot      Total Hexa-Furans	0.00	-	- n	-	-	0.845 y
46	Tot      Total Hepta-Furans	0.00	-	- n	-	-	1.29 y

Analyst: 

Date: 8/24/10

Run #2      Filename 23AUG10M  
Client ID: ST082310M1

S: 4      Acquired: 23-AUG-10 17:12:02      Cal: PCDDFAL3-8-23-10  
Analyte:      FAL ID: 1613 CS1 100511H

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk      2,3,7,8-TCDD	0.50	2.50e+05	0.74 y	27:27	-	1.09 y
2	Unk      1,2,3,7,8-PeCDD	2.50	9.93e+05	1.61 y	33:16	-	1.08 y
3	Unk      1,2,3,4,7,8-HxCDD	2.50	8.89e+05	1.42 y	38:37	-	1.30 y
4	Unk      1,2,3,6,7,8-HxCDD	2.50	9.16e+05	1.42 y	38:48	-	1.38 y
5	Unk      1,2,3,7,8,9-HxCDD	2.50	8.82e+05	1.39 y	39:14	-	1.31 y
6	Unk      1,2,3,4,6,7,8-HpCDD	2.50	8.00e+05	1.07 y	44:14	-	1.47 y
7	Unk      OCDD	5.00	9.24e+05	0.99 y	49:48	-	1.37 y
8	Unk      2,3,7,8-TCDF	0.50	5.65e+05	0.69 y	26:41	-	1.60 y
9	Unk      1,2,3,7,8-PeCDF	2.50	1.31e+06	1.45 y	31:32	-	0.885 y
10	Unk      2,3,4,7,8-PeCDF	2.50	1.29e+06	1.43 y	32:51	-	0.896 y
11	Unk      1,2,3,4,7,8-HxCDF	2.50	1.08e+06	1.27 y	37:14	-	0.877 y
12	Unk      1,2,3,6,7,8-HxCDF	2.50	1.32e+06	1.22 y	37:26	-	0.790 y
13	Unk      2,3,4,6,7,8-HxCDF	2.50	1.14e+06	1.31 y	38:23	-	0.858 y
14	Unk      1,2,3,7,8,9-HxCDF	2.50	1.21e+06	1.23 y	39:48	-	0.938 y
15	Unk      1,2,3,4,6,7,8-HpCDF	2.50	9.30e+05	1.05 y	42:20	-	1.33 y
16	Unk      1,2,3,4,7,8,9-HpCDF	2.50	6.04e+05	1.06 y	45:09	-	1.20 y
17	Unk      OCDF	5.00	9.66e+05	0.89 y	50:10	-	0.721 y
18	IS/RT      13C-2,3,7,8-TCDD	100.00	4.56e+07	0.84 y	27:25	-	0.980 y
19	IS      13C-1,2,3,7,8-PeCDD	100.00	3.68e+07	1.77 y	33:14	-	0.790 y
20	IS      13C-1,2,3,4,7,8-HxCDD	100.00	2.74e+07	1.32 y	38:36	-	1.03 y
21	IS      13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.22 y	38:46	-	0.996 y
22	IS      13C-1,2,3,4,6,7,8-HpCDD	100.00	2.18e+07	1.02 y	44:13	-	0.818 y
23	IS      13C-OCDD	200.00	2.71e+07	0.99 y	49:47	-	0.507 y
24	IS      13C-2,3,7,8-TCDF	100.00	7.06e+07	0.86 y	26:40	-	0.923 y
25	IS      13C-1,2,3,7,8-PeCDF	100.00	5.94e+07	1.73 y	31:30	-	0.777 y
26	IS      13C-2,3,4,7,8-PeCDF	100.00	5.75e+07	1.68 y	32:49	-	0.752 y
27	IS      13C-1,2,3,4,7,8-HxCDF	100.00	4.93e+07	0.55 y	37:13	-	1.85 y
28	IS      13C-1,2,3,6,7,8-HxCDF	100.00	6.70e+07	0.55 y	37:24	-	2.51 y
29	IS      13C-2,3,4,6,7,8-HxCDF	100.00	5.33e+07	0.57 y	38:21	-	2.00 y
30	IS      13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.55 y	39:48	-	1.94 y
31	IS      13C-1,2,3,4,6,7,8-HpCDF	100.00	2.79e+07	0.44 y	42:18	-	1.05 y
32	IS      13C-1,2,3,4,7,8,9-HpCDF	100.00	2.02e+07	0.42 y	45:09	-	0.756 y
33	IS      13C-OCDF	200.00	5.36e+07	0.96 y	50:09	-	1.00 y
34	C/Up      37Cl-2,3,7,8-TCDD	0.50	1.62e+05		27:26	-	0.696 y
35	RS      13C-1,2,3,4-TCDD	100.00	4.66e+07	0.83 y	26:51	4.66e+05	- n
36	RS      13C-1,2,3,4-TCDF	100.00	7.65e+07	0.88 y	25:34	7.65e+05	- n
37	RS/RT      13C-1,2,3,7,8,9-HxCDD	100.00	2.67e+07	1.27 y	39:13	2.67e+05	- n
38	Tot      Total Tetra-Dioxins	0.00	-	- n	-	-	1.09 y
39	Tot      Total Penta-Dioxins	0.00	-	- n	-	-	1.08 y
40	Tot      Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot      Total Hepta-Dioxins	0.00	-	- n	-	-	1.47 y
42	Tot      Total Tetra-Furans	0.00	-	- n	-	-	1.60 y
43	Tot      1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.890 y
44	Tot      Total Penta-Furans	0.00	-	- n	-	-	0.890 y
45	Tot      Total Hexa-Furans	0.00	-	- n	-	-	0.860 y
46	Tot      Total Hepta-Furans	0.00	-	- n	-	-	1.28 y

Analyst: 

Date: 8/24/10

Run #3 Filename 23AUG10M  
Client ID: ST082310M2

S: 5


Acquired: 23-AUG-10 18:07:23

Cal: PCDDFAL3-8-23-10

Analyte:

FAL ID: 1613 CS2 100511I

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	2.00	9.56e+05	0.76 y	27:26	-	1.06 y
2	Unk 1,2,3,7,8-PeCDD	10.00	3.99e+06	1.62 y	33:15	-	1.09 y
3	Unk 1,2,3,4,7,8-HxCDD	10.00	3.69e+06	1.40 y	38:38	-	1.31 y
4	Unk 1,2,3,6,7,8-HxCDD	10.00	3.71e+06	1.40 y	38:47	-	1.39 y
5	Unk 1,2,3,7,8,9-HxCDD	10.00	3.75e+06	1.40 y	39:14	-	1.37 y
6	Unk 1,2,3,4,6,7,8-HpCDD	10.00	3.22e+06	1.04 y	44:14	-	1.45 y
7	Unk OCDD	20.00	3.97e+06	0.89 y	49:47	-	1.42 y
8	Unk 2,3,7,8-TCDF	2.00	2.12e+06	0.69 y	26:41	-	1.50 y
9	Unk 1,2,3,7,8-PeCDF	10.00	5.47e+06	1.50 y	31:32	-	0.916 y
10	Unk 2,3,4,7,8-PeCDF	10.00	5.23e+06	1.51 y	32:51	-	0.913 y
11	Unk 1,2,3,4,7,8-HxCDF	10.00	4.43e+06	1.30 y	37:14	-	0.900 y
12	Unk 1,2,3,6,7,8-HxCDF	10.00	5.48e+06	1.24 y	37:26	-	0.819 y
13	Unk 2,3,4,6,7,8-HxCDF	10.00	4.88e+06	1.33 y	38:22	-	0.924 y
14	Unk 1,2,3,7,8,9-HxCDF	10.00	5.17e+06	1.28 y	39:49	-	0.990 y
15	Unk 1,2,3,4,6,7,8-HpCDF	10.00	4.10e+06	1.03 y	42:19	-	1.37 y
16	Unk 1,2,3,4,7,8,9-HpCDF	10.00	2.76e+06	1.01 y	45:09	-	1.33 y
17	Unk OCDF	20.00	4.20e+06	0.92 y	50:11	-	0.753 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.51e+07	0.83 y	27:25	-	0.970 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.68e+07	1.77 y	33:14	-	0.792 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.81e+07	1.27 y	38:36	-	1.06 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.28 y	38:46	-	1.00 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.22e+07	1.02 y	44:13	-	0.835 y
23	IS 13C-OCDD	200.00	2.79e+07	0.95 y	49:47	-	0.524 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.06e+07	0.88 y	26:40	-	0.935 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.98e+07	1.74 y	31:30	-	0.791 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.73e+07	1.71 y	32:50	-	0.759 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.92e+07	0.55 y	37:13	-	1.85 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.70e+07	0.55 y	37:25	-	2.52 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.28e+07	0.56 y	38:21	-	1.98 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.23e+07	0.56 y	39:47	-	1.96 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.98e+07	0.43 y	42:18	-	1.12 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.07e+07	0.41 y	45:08	-	0.777 y
33	IS 13C-OCDF	200.00	5.58e+07	1.00 y	50:09	-	1.05 y
34	C/Up 37Cl-2,3,7,8-TCDD	2.00	5.87e+05		27:27	-	0.632 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.65e+07	0.85 y	26:50	4.65e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.56e+07	0.87 y	25:35	7.56e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.66e+07	1.26 y	39:13	2.66e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.06 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.09 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.36 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.45 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.50 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.914 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.914 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.902 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.36 y


Analyst: 

Date: 8/24/10

Run #4      Filename 23AUG10M  
Client ID: ST082310M3

S: 1      Acquired: 23-AUG-10 14:25:46      Cal: PCDDFAL3-8-23-10  
Analyte:      FAL ID: 1613 CS3 100511J

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk      2,3,7,8-TCDD	10.00	5.04e+06	0.73 y	27:24	-	1.16 y
2	Unk      1,2,3,7,8-PeCDD	50.00	1.95e+07	1.64 y	33:14	-	1.11 y
3	Unk      1,2,3,4,7,8-HxCDD	50.00	1.81e+07	1.41 y	38:36	-	1.36 y
4	Unk      1,2,3,6,7,8-HxCDD	50.00	1.75e+07	1.39 y	38:46	-	1.32 y
5	Unk      1,2,3,7,8,9-HxCDD	50.00	1.74e+07	1.41 y	39:13	-	1.30 y
6	Unk      1,2,3,4,6,7,8-HpCDD	50.00	1.56e+07	1.04 y	44:13	-	1.44 y
7	Unk      OCDD	100.00	1.96e+07	0.95 y	49:47	-	1.44 y
8	Unk      2,3,7,8-TCDF	10.00	9.40e+06	0.67 y	26:39	-	1.40 y
9	Unk      1,2,3,7,8-PeCDF	50.00	2.67e+07	1.53 y	31:30	-	0.959 y
10	Unk      2,3,4,7,8-PeCDF	50.00	2.56e+07	1.52 y	32:49	-	0.933 y
11	Unk      1,2,3,4,7,8-HxCDF	50.00	2.15e+07	1.29 y	37:12	-	0.905 y
12	Unk      1,2,3,6,7,8-HxCDF	50.00	2.72e+07	1.26 y	37:24	-	0.826 y
13	Unk      2,3,4,6,7,8-HxCDF	50.00	2.34e+07	1.24 y	38:21	-	0.892 y
14	Unk      1,2,3,7,8,9-HxCDF	50.00	2.60e+07	1.28 y	39:47	-	1.00 y
15	Unk      1,2,3,4,6,7,8-HpCDF	50.00	1.95e+07	1.04 y	42:18	-	1.39 y
16	Unk      1,2,3,4,7,8,9-HpCDF	50.00	1.37e+07	1.04 y	45:08	-	1.35 y
17	Unk      OCDF	100.00	2.16e+07	0.93 y	50:09	-	0.785 y
18	IS/RT      13C-2,3,7,8-TCDD	100.00	4.35e+07	0.86 y	27:23	-	0.982 y
19	IS      13C-1,2,3,7,8-PeCDD	100.00	3.51e+07	1.77 y	33:13	-	0.793 y
20	IS      13C-1,2,3,4,7,8-HxCDD	100.00	2.66e+07	1.26 y	38:35	-	1.01 y
21	IS      13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.27 y	38:45	-	1.02 y
22	IS      13C-1,2,3,4,6,7,8-HpCDD	100.00	2.18e+07	1.04 y	44:11	-	0.830 y
23	IS      13C-OCDD	200.00	2.73e+07	0.93 y	49:45	-	0.521 y
24	IS      13C-2,3,7,8-TCDF	100.00	6.73e+07	0.86 y	26:38	-	0.959 y
25	IS      13C-1,2,3,7,8-PeCDF	100.00	5.57e+07	1.78 y	31:28	-	0.794 y
26	IS      13C-2,3,4,7,8-PeCDF	100.00	5.49e+07	1.74 y	32:48	-	0.783 y
27	IS      13C-1,2,3,4,7,8-HxCDF	100.00	4.74e+07	0.56 y	37:11	-	1.81 y
28	IS      13C-1,2,3,6,7,8-HxCDF	100.00	6.58e+07	0.55 y	37:23	-	2.51 y
29	IS      13C-2,3,4,6,7,8-HxCDF	100.00	5.25e+07	0.54 y	38:19	-	2.00 y
30	IS      13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.55 y	39:45	-	1.98 y
31	IS      13C-1,2,3,4,6,7,8-HpCDF	100.00	2.80e+07	0.42 y	42:17	-	1.07 y
32	IS      13C-1,2,3,4,7,8,9-HpCDF	100.00	2.02e+07	0.42 y	45:06	-	0.772 y
33	IS      13C-OCDF	200.00	5.49e+07	0.98 y	50:08	-	1.05 y
34	C/Up      37Cl-2,3,7,8-TCDD	10.00	2.77e+06		27:24	-	0.626 y
35	RS      13C-1,2,3,4-TCDD	100.00	4.42e+07	0.84 y	26:49	4.42e+05	- n
36	RS      13C-1,2,3,4-TCDF	100.00	7.01e+07	0.87 y	25:33	7.01e+05	- n
37	RS/RT      13C-1,2,3,7,8,9-HxCDD	100.00	2.62e+07	1.28 y	39:11	2.62e+05	- n
38	Tot      Total Tetra-Dioxins	0.00	-	- n	-	-	1.16 y
39	Tot      Total Penta-Dioxins	0.00	-	- n	-	-	1.11 y
40	Tot      Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot      Total Hepta-Dioxins	0.00	-	- n	-	-	1.44 y
42	Tot      Total Tetra-Furans	0.00	-	- n	-	-	1.40 y
43	Tot      1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.946 y
44	Tot      Total Penta-Furans	0.00	-	- n	-	-	0.946 y
45	Tot      Total Hexa-Furans	0.00	-	- n	-	-	0.902 y
46	Tot      Total Hepta-Furans	0.00	-	- n	-	-	1.37 y

Analyst:       Date: 8/24/10

Run #5      Filename 23AUG10M  
 Client ID: ST082310M4

S: 6

Acquired: 23-AUG-10 19:02:46

Cal: PCDDFAL3-8-23-10

Analyte:

FAL ID: 1613 CS4 100511K

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	2.29e+07	0.76 y	27:27	- 1.13 y
2	Unk	1,2,3,7,8-PeCDD	200.00	9.61e+07	1.62 y	33:16	- 1.15 y
3	Unk	1,2,3,4,7,8-HxCDD	200.00	9.66e+07	1.40 y	38:37	- 1.44 y
4	Unk	1,2,3,6,7,8-HxCDD	200.00	8.79e+07	1.41 y	38:47	- 1.43 y
5	Unk	1,2,3,7,8,9-HxCDD	200.00	9.29e+07	1.41 y	39:15	- 1.45 y
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	7.75e+07	1.03 y	44:14	- 1.45 y
7	Unk	OCDD	400.00	9.77e+07	1.00 y	49:48	- 1.42 y
8	Unk	2,3,7,8-TCDF	40.00	4.55e+07	0.67 y	26:42	- 1.47 y
9	Unk	1,2,3,7,8-PeCDF	200.00	1.31e+08	1.55 y	31:31	- 0.991 y
10	Unk	2,3,4,7,8-PeCDF	200.00	1.25e+08	1.52 y	32:50	- 0.991 y
11	Unk	1,2,3,4,7,8-HxCDF	200.00	1.13e+08	1.27 y	37:14	- 0.995 y
12	Unk	1,2,3,6,7,8-HxCDF	200.00	1.35e+08	1.28 y	37:26	- 0.869 y
13	Unk	2,3,4,6,7,8-HxCDF	200.00	1.21e+08	1.26 y	38:23	- 0.979 y
14	Unk	1,2,3,7,8,9-HxCDF	200.00	1.38e+08	1.30 y	39:49	- 1.08 y
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	1.03e+08	1.03 y	42:19	- 1.49 y
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	7.19e+07	1.05 y	45:09	- 1.45 y
17	Unk	OCDF	400.00	1.19e+08	0.92 y	50:11	- 0.860 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	5.05e+07	0.85 y	27:25	- 1.15 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	4.17e+07	1.76 y	33:14	- 0.955 y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	3.35e+07	1.27 y	38:37	- 1.12 y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.08e+07	1.28 y	38:46	- 1.03 y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.67e+07	1.01 y	44:13	- 0.896 y
23	IS	13C-OCDD	200.00	3.44e+07	0.94 y	49:47	- 0.578 y
24	IS	13C-2,3,7,8-TCDF	100.00	7.76e+07	0.88 y	26:41	- 1.12 y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	6.59e+07	1.75 y	31:30	- 0.954 y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	6.31e+07	1.73 y	32:49	- 0.913 y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	5.67e+07	0.55 y	37:13	- 1.91 y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	7.79e+07	0.55 y	37:25	- 2.62 y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	6.19e+07	0.54 y	38:21	- 2.08 y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	6.38e+07	0.54 y	39:48	- 2.14 y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.44e+07	0.43 y	42:18	- 1.16 y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.48e+07	0.43 y	45:08	- 0.832 y
33	IS	13C-OCDF	200.00	6.90e+07	0.99 y	50:09	- 1.16 y
34	C/Up	37Cl-2,3,7,8-TCDD	40.00	1.32e+07		27:27	- 0.757 y
35	RS	13C-1,2,3,4-TCDD	100.00	4.37e+07	0.85 y	26:50	4.37e+05 - n
36	RS	13C-1,2,3,4-TCDF	100.00	6.91e+07	0.87 y	25:35	6.91e+05 - n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.98e+07	1.25 y	39:13	2.98e+05 - n
38	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 1.13 y
39	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.15 y
40	Tot	Total Hexa-Dioxins	0.00	-	- n	-	- 1.44 y
41	Tot	Total Hepta-Dioxins	0.00	-	- n	-	- 1.45 y
42	Tot	Total Tetra-Furans	0.00	-	- n	-	- 1.47 y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	- 0.991 y
44	Tot	Total Penta-Furans	0.00	-	- n	-	- 0.991 y
45	Tot	Total Hexa-Furans	0.00	-	- n	-	- 0.974 y
46	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.47 y

Analyst: 


Date: 8/24/10

Run #6      Filename 23AUG10M  
Client ID: ST082310M5

S: 7      Acquired: 23-AUG-10 19:58:08      Cal: PCDDFAL3-8-23-10  
Analyte: PCDDFAL3-8-23-10

FAL ID: 1613 CS5 100511L

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk      2,3,7,8-TCDD	200.00	1.06e+08	0.76 y	27:26	-	1.14 y
2	Unk      1,2,3,7,8-PeCDD	1000.00	4.58e+08	1.63 y	33:15	-	1.15 y
3	Unk      1,2,3,4,7,8-HxCDD	1000.00	4.92e+08	1.39 y	38:38	-	1.42 y
4	Unk      1,2,3,6,7,8-HxCDD	1000.00	4.34e+08	1.40 y	38:48	-	1.42 y
5	Unk      1,2,3,7,8,9-HxCDD	1000.00	4.72e+08	1.38 y	39:14	-	1.45 y
6	Unk      1,2,3,4,6,7,8-HpCDD	1000.00	4.12e+08	1.03 y	44:14	-	1.48 y
7	Unk      OCDD	2000.00	5.93e+08	0.92 y	49:50	-	1.59 y
8	Unk      2,3,7,8-TCDF	200.00	2.14e+08	0.66 y	26:41	-	1.48 y
9	Unk      1,2,3,7,8-PeCDF	1000.00	6.33e+08	1.52 y	31:32	-	0.985 y
10	Unk      2,3,4,7,8-PeCDF	1000.00	6.21e+08	1.52 y	32:51	-	1.00 y
11	Unk      1,2,3,4,7,8-HxCDF	1000.00	5.58e+08	1.28 y	37:14	-	0.996 y
12	Unk      1,2,3,6,7,8-HxCDF	1000.00	6.54e+08	1.27 y	37:26	-	0.876 y
13	Unk      2,3,4,6,7,8-HxCDF	1000.00	5.98e+08	1.27 y	38:22	-	0.989 y
14	Unk      1,2,3,7,8,9-HxCDF	1000.00	7.04e+08	1.28 y	39:49	-	1.08 y
15	Unk      1,2,3,4,6,7,8-HpCDF	1000.00	5.19e+08	1.05 y	42:20	-	1.47 y
16	Unk      1,2,3,4,7,8,9-HpCDF	1000.00	4.06e+08	1.08 y	45:09	-	1.50 y
17	Unk      OCDF	2000.00	6.38e+08	0.93 y	50:12	-	0.869 y
18	IS/RT      13C-2,3,7,8-TCDD	100.00	4.62e+07	0.84 y	27:25	-	1.08 y
19	IS      13C-1,2,3,7,8-PeCDD	100.00	4.00e+07	1.76 y	33:15	-	0.933 y
20	IS      13C-1,2,3,4,7,8-HxCDD	100.00	3.46e+07	1.27 y	38:37	-	1.16 y
21	IS      13C-1,2,3,6,7,8-HxCDD	100.00	3.07e+07	1.25 y	38:46	-	1.03 y
22	IS      13C-1,2,3,4,6,7,8-HpCDD	100.00	2.78e+07	1.04 y	44:13	-	0.932 y
23	IS      13C-OCDD	200.00	3.72e+07	0.93 y	49:49	-	0.625 y
24	IS      13C-2,3,7,8-TCDF	100.00	7.26e+07	0.87 y	26:40	-	1.05 y
25	IS      13C-1,2,3,7,8-PeCDF	100.00	6.43e+07	1.73 y	31:30	-	0.931 y
26	IS      13C-2,3,4,7,8-PeCDF	100.00	6.19e+07	1.73 y	32:49	-	0.896 y
27	IS      13C-1,2,3,4,7,8-HxCDF	100.00	5.60e+07	0.55 y	37:13	-	1.88 y
28	IS      13C-1,2,3,6,7,8-HxCDF	100.00	7.47e+07	0.56 y	37:25	-	2.51 y
29	IS      13C-2,3,4,6,7,8-HxCDF	100.00	6.05e+07	0.56 y	38:21	-	2.03 y
30	IS      13C-1,2,3,7,8,9-HxCDF	100.00	6.55e+07	0.54 y	39:47	-	2.20 y
31	IS      13C-1,2,3,4,6,7,8-HpCDF	100.00	3.52e+07	0.44 y	42:18	-	1.18 y
32	IS      13C-1,2,3,4,7,8,9-HpCDF	100.00	2.71e+07	0.42 y	45:08	-	0.909 y
33	IS      13C-OCDF	200.00	7.35e+07	0.99 y	50:11	-	1.23 y
34	C/Up      37Cl-2,3,7,8-TCDD	200.00	6.26e+07		27:26	-	0.731 y
35	RS      13C-1,2,3,4-TCDD	100.00	4.28e+07	0.84 y	26:50	4.28e+05	- n
36	RS      13C-1,2,3,4-TCDF	100.00	6.91e+07	0.87 y	25:34	6.91e+05	- n
37	RS/RT      13C-1,2,3,7,8,9-HxCDD	100.00	2.98e+07	1.25 y	39:13	2.98e+05	- n
38	Tot      Total Tetra-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot      Total Penta-Dioxins	0.00	-	- n	-	-	1.15 y
40	Tot      Total Hexa-Dioxins	0.00	-	- n	-	-	1.43 y
41	Tot      Total Hepta-Dioxins	0.00	-	- n	-	-	1.48 y
42	Tot      Total Tetra-Furans	0.00	-	- n	-	-	1.48 y
43	Tot      1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.994 y
44	Tot      Total Penta-Furans	0.00	-	- n	-	-	0.994 y
45	Tot      Total Hexa-Furans	0.00	-	- n	-	-	0.980 y
46	Tot      Total Hepta-Furans	0.00	-	- n	-	-	1.48 y

Analyst: 

Date: 



## USEPA - ITD

## FORM 3A

## PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3 GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

	RELATIVE RESPONSE (RR)						MEAN	Cv
	CS1	CS2	CS3	CS4	CS5	CS6	RR	(%RSD)
NATIVE ANALYTES								
2,3,7,8-TCDD	1.07	1.09	1.06	1.16	1.13	1.14	1.11	3.63
1,2,3,7,8-PeCDD	1.03	1.08	1.09	1.11	1.15	1.15	1.10	4.14
1,2,3,4,7,8-HxCDD	1.40	1.30	1.31	1.36	1.44	1.42	1.37	4.29
1,2,3,6,7,8-HxCDD	1.30	1.38	1.39	1.32	1.43	1.42	1.37	3.80
1,2,3,7,8,9-HxCDD	1.29	1.31	1.37	1.30	1.45	1.45	1.36	5.24
1,2,3,4,6,7,8-HpCDD	1.43	1.47	1.45	1.44	1.45	1.48	1.45	1.37
OCDD	1.37	1.37	1.42	1.44	1.42	1.59	1.43	5.81
2,3,7,8-TCDF	1.57	1.60	1.50	1.40	1.47	1.48	1.50	4.91
1,2,3,7,8-PeCDF	0.92	0.88	0.92	0.96	0.99	0.99	0.94	4.53
2,3,4,7,8-PeCDF	0.88	0.90	0.91	0.93	0.99	1.00	0.94	5.35
1,2,3,4,7,8-HxCDF	0.90	0.88	0.90	0.91	0.99	1.00	0.93	5.70
1,2,3,6,7,8-HxCDF	0.75	0.79	0.82	0.83	0.87	0.88	0.82	5.91
2,3,4,6,7,8-HxCDF	0.87	0.86	0.92	0.89	0.98	0.99	0.92	6.02
1,2,3,7,8,9-HxCDF	0.90	0.94	0.99	1.00	1.08	1.08	1.00	7.30
1,2,3,4,6,7,8-HpCDF	1.28	1.33	1.37	1.39	1.49	1.47	1.39	5.78
1,2,3,4,7,8,9-HpCDF	1.30	1.20	1.33	1.35	1.45	1.50	1.36	7.94
OCDF	0.73	0.72	0.75	0.79	0.86	0.87	0.79	8.29

Analyst: 

Date: 8/24/10

## USEPA - ITD

## FORM 3B

## PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3 GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS4 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	0.98	0.98	0.97	0.98	1.15	1.08	1.02	7.46
13C-1,2,3,7,8-PeCDD	0.79	0.79	0.79	0.79	0.95	0.93	0.84	9.48
13C-1,2,3,4,7,8-HxCDD	1.06	1.03	1.06	1.01	1.12	1.16	1.07	5.40
13C-1,2,3,6,7,8-HxCDD	1.00	1.00	1.00	1.02	1.03	1.03	1.01	1.62
13C-1,2,3,4,6,7,8-HpCDD	0.82	0.82	0.84	0.83	0.90	0.93	0.86	5.45
13C-OCDD	0.52	0.51	0.52	0.52	0.58	0.63	0.55	8.36
13C-2,3,7,8-TCDF	0.97	0.92	0.93	0.96	1.12	1.05	0.99	7.79
13C-1,2,3,7,8-PeCDF	0.78	0.78	0.79	0.79	0.95	0.93	0.84	9.74
13C-2,3,4,7,8-PeCDF	0.77	0.75	0.76	0.78	0.91	0.90	0.81	8.97
13C-1,2,3,4,7,8-HxCDF	1.82	1.85	1.85	1.81	1.91	1.88	1.85	2.00
13C-1,2,3,6,7,8-HxCDF	2.55	2.51	2.52	2.51	2.62	2.51	2.54	1.71
13C-2,3,4,6,7,8-HxCDF	2.00	2.00	1.98	2.00	2.08	2.03	2.01	1.79
13C-1,2,3,7,8,9-HxCDF	1.97	1.94	1.96	1.98	2.14	2.20	2.03	5.42
13C-1,2,3,4,6,7,8-HpCDF	1.08	1.05	1.12	1.07	1.16	1.18	1.11	4.80
13C-1,2,3,4,7,8,9-HpCDF	0.78	0.76	0.78	0.77	0.83	0.91	0.80	7.16
13C-OCDF	1.00	1.00	1.05	1.05	1.16	1.23	1.08	8.63
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.67	0.70	0.63	0.63	0.76	0.73	0.69	7.67

Analyst: Date: 8/24/10

## USEPA - ITD

## FORM 3C

## PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.73	0.74	0.76	0.73	0.76	0.76	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.61	1.62	1.64	1.62	1.63	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.42	1.42	1.40	1.41	1.40	1.39	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.40	1.42	1.40	1.39	1.41	1.40	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.41	1.39	1.40	1.41	1.41	1.38	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	1.07	1.04	1.04	1.03	1.03	0.88-1.20
OCDD	M+2/M+4	1.00	0.99	0.89	0.95	1.00	0.92	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.67	0.69	0.69	0.67	0.67	0.66	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.45	1.50	1.53	1.55	1.52	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.43	1.51	1.52	1.52	1.52	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.27	1.30	1.29	1.27	1.28	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.31	1.22	1.24	1.26	1.28	1.27	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.31	1.33	1.24	1.26	1.27	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.15	1.23	1.28	1.28	1.30	1.28	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.05	1.03	1.04	1.03	1.05	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	1.06	1.01	1.04	1.05	1.08	0.88-1.20
OCDF	M+2/M+4	0.93	0.89	0.92	0.93	0.92	0.93	0.76-1.02

Analyst: 

Date: 8/24/10

## FORM 3D

## PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

Labeled Compounds	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
13C-2,3,7,8-TCDD	M/M+2	0.85	0.84	0.83	0.86	0.85	0.84	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.77	1.77	1.77	1.76	1.76	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.32	1.27	1.26	1.27	1.27	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.22	1.28	1.27	1.28	1.25	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	1.02	1.02	1.04	1.01	1.04	0.88-1.20
13C-OCDD	M+2/M+4	1.00	0.99	0.95	0.93	0.94	0.93	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.88	0.86	0.88	0.86	0.88	0.87	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.74	1.73	1.74	1.78	1.75	1.73	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.68	1.71	1.74	1.73	1.73	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.55	0.55	0.55	0.56	0.55	0.55	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.56	0.55	0.55	0.55	0.55	0.56	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.58	0.57	0.56	0.54	0.54	0.56	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.55	0.56	0.55	0.54	0.54	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.44	0.43	0.42	0.43	0.44	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.42	0.41	0.42	0.43	0.42	0.37-0.51
13C-OCDF	M+2/M+4	0.95	0.96	1.00	0.98	0.99	0.99	0.76-1.02

Analyst: 

Date: 8/24/10

## USEPA - ITD

FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

VER Data Filename: 23AUG10M Sam:1

Analysis Date: 23-AUG-10 14:25:46

NATIVE ANALYTES	M/Z'S	ION	QC	ACCEPT	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO (1)	RATIO	(2)			(ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	10.4	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.64	1.32-1.78	y	50.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.41	1.05-1.43	y	49.6	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.39	1.05-1.43	y	48.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.41	1.05-1.43	y	47.9	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	49.5	43.0 - 58.0
OCDD	M+2/M+4	0.95	0.76-1.02	y	100	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.67	0.65-0.89	y	9.30	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	50.9	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.52	1.32-1.78	y	49.8	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	48.8	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.3	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.5	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05-1.43	y	50.3	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	49.9	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	49.8	43.0 - 58.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	99.9	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: Date: 8/24/10

## USEPA - ITD

FORM 4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

VER Data Filename: 23AUG10M Sam:1

Analysis Date: 23-AUG-10 14:25:46

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.86	0.65-0.89	y	95.9	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.32-1.78	y	94.2	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	94.5	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	100	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	97.0	72.0 - 138
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	191	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	96.5	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.78	1.32-1.78	y	94.8	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.32-1.78	y	96.5	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.56	0.43-0.59	y	97.7	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	99.0	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	99.4	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.55	0.43-0.59	y	97.2	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.37-0.51	y	96.4	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.42	0.37-0.51	y	96.0	77.0 - 129
13C-OCDF	M+2/M+4	0.98	0.76-1.02	y	194	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.14	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: Date: 8/24/10

FORM 5  
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:  
Contract No.: SAS No.:  
Instrument ID: FAL3 Initial Calibration Date: 8/23/10  
RT Window Data Filename: 23AUG10M Sam:1 Analysis Date: 23-AUG-10 Time: 14:25:46  
DB-5 IS Data Filename: 23AUG10M Sam:1 Analysis Date: 23-AUG-10 Time: 14:25:46  
DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:24	1,3,6,8-TCDF (F)	23:04
1,2,8,9-TCDD (L)	28:21	1,2,8,9-TCDF (L)	28:34
1,2,4,7,9-PeCDD (F)	30:15	1,3,4,6,8-PeCDF (F)	28:25
1,2,3,8,9-PeCDD (L)	33:48	1,2,3,8,9-PeCDF (L)	34:14
1,2,4,6,7,9-HxCDD (F)	36:08	1,2,3,4,6,8-HxCDF (F)	35:15
1,2,3,7,8,9-HxCDD (L)	39:13	1,2,3,7,8,9-HxCDF (L)	39:47
1,2,3,4,6,7,9-HpCDD (F)	42:49	1,2,3,4,6,7,8-HpCDF (F)	42:18
1,2,3,4,6,7,8-HpCDD (L)	44:13	1,2,3,4,7,8,9-HpCDF (L)	45:08

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: 

Date: 8/24/10