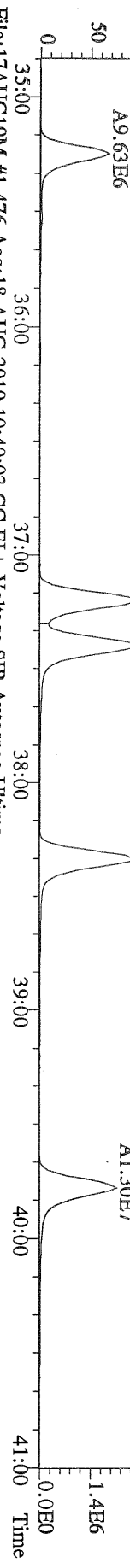
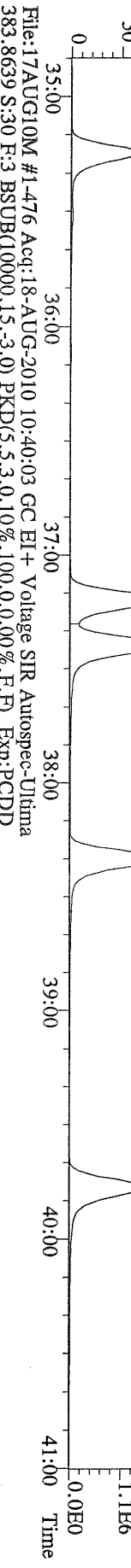


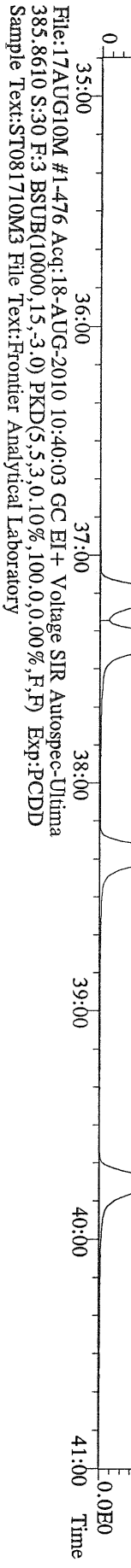
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 373.8207 S:30 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
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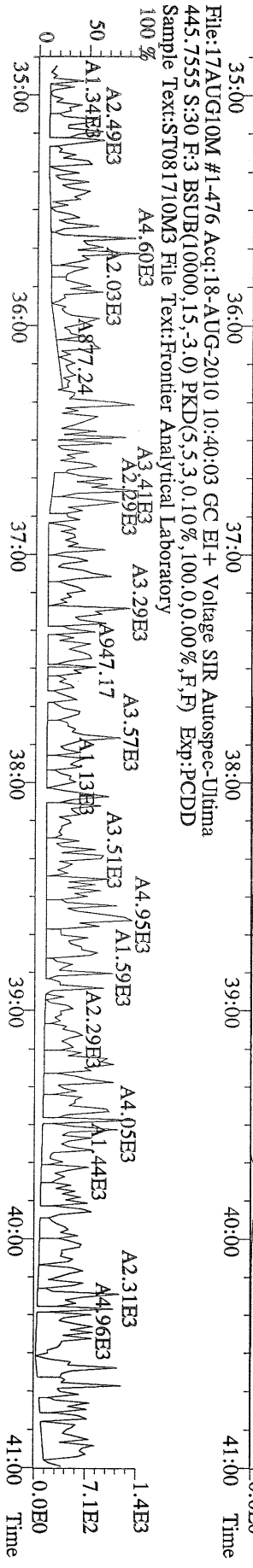
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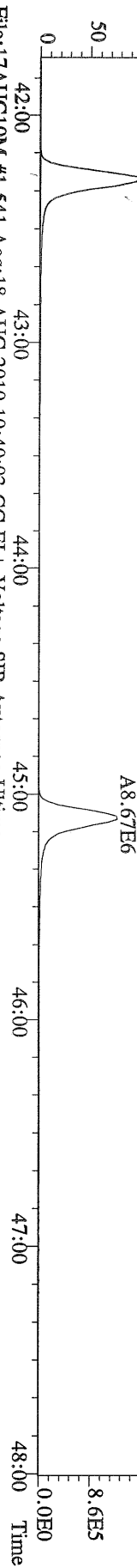
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 383.8639 S:30 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



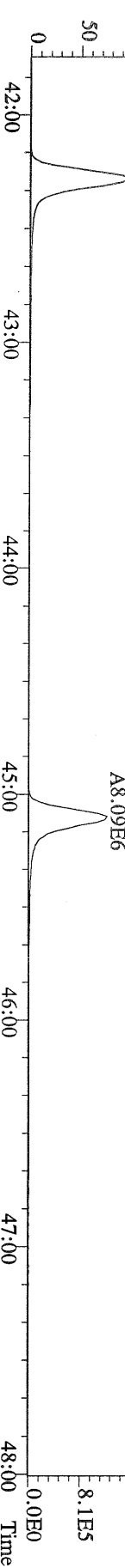
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 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



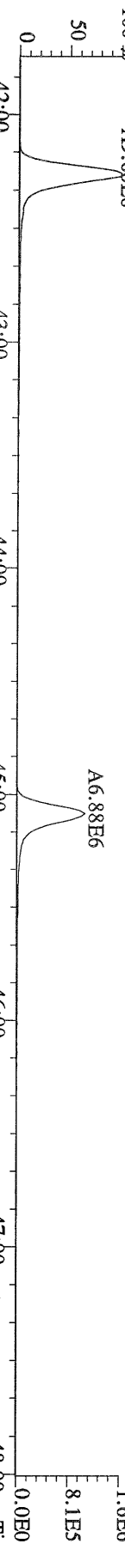
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 407.7818 S:30 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



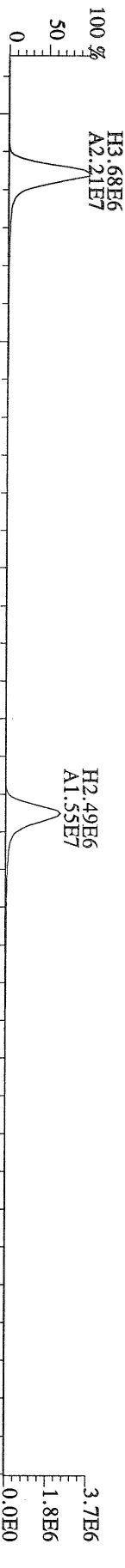
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 409.7788 S:30 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



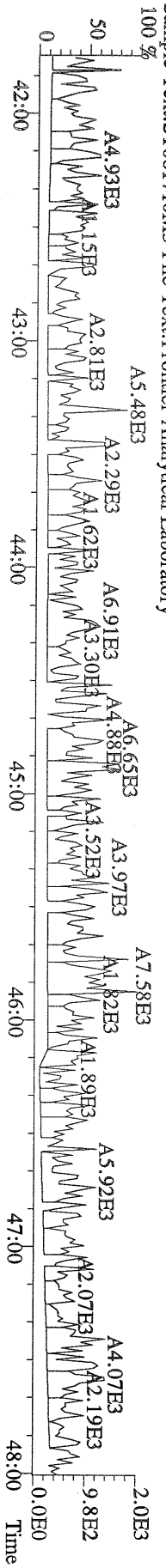
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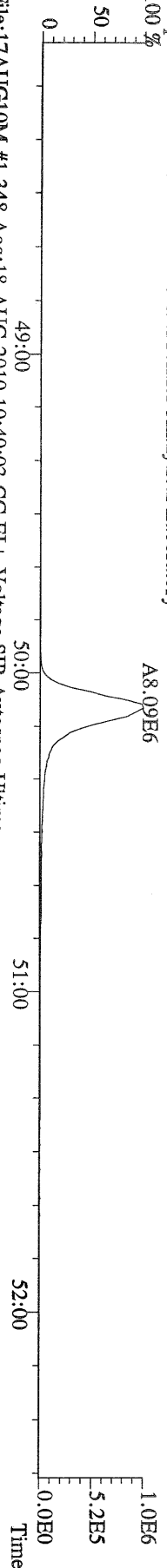
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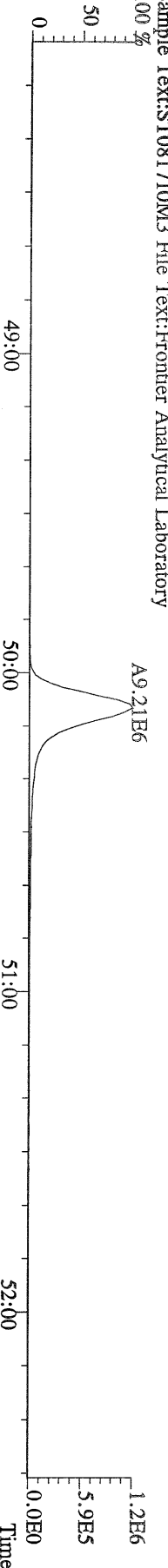
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 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



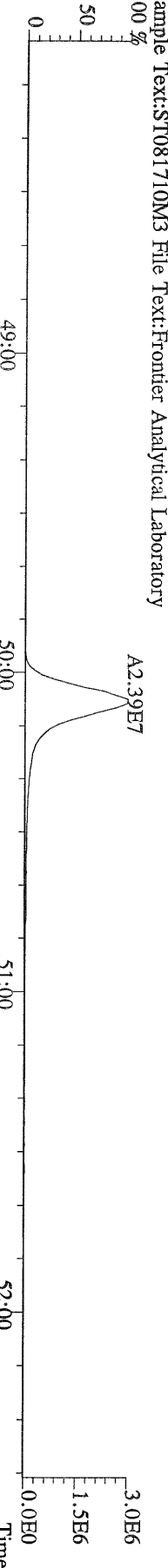
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 441.7428 S:30 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



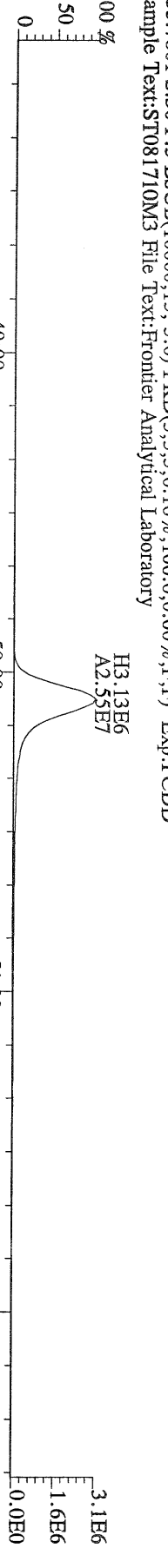
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 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



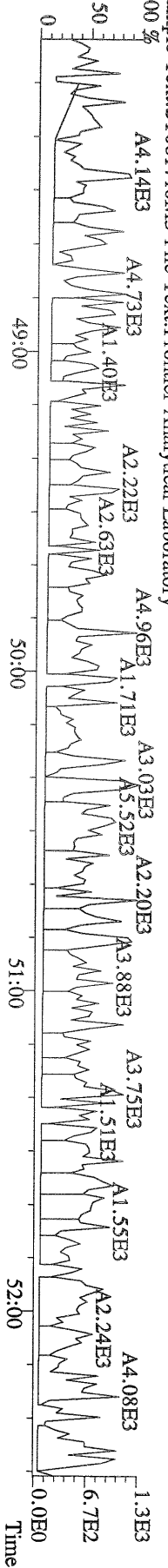
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 453.7831 S:30 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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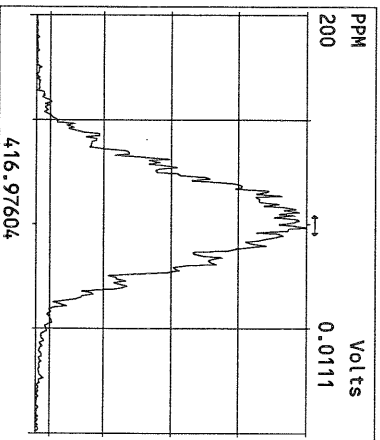
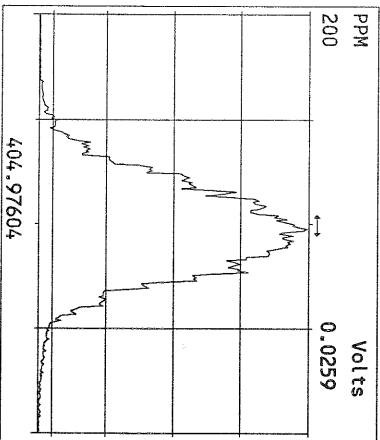
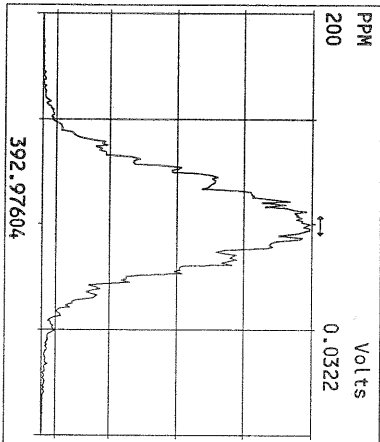
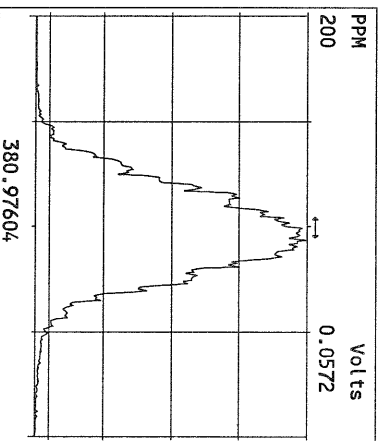
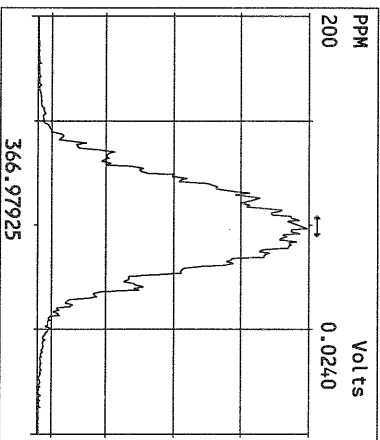
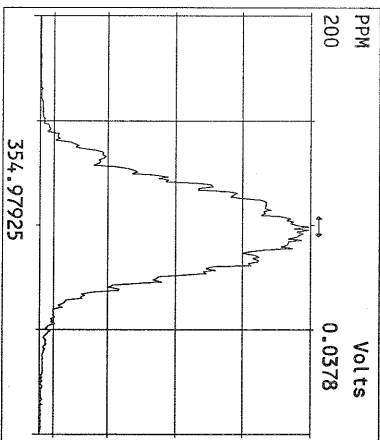
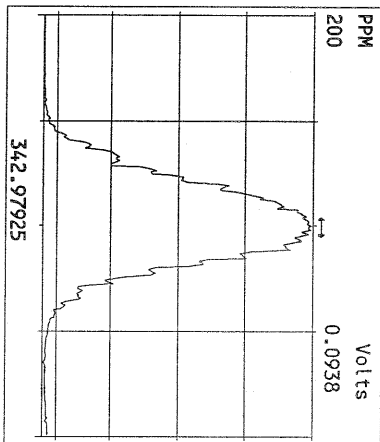
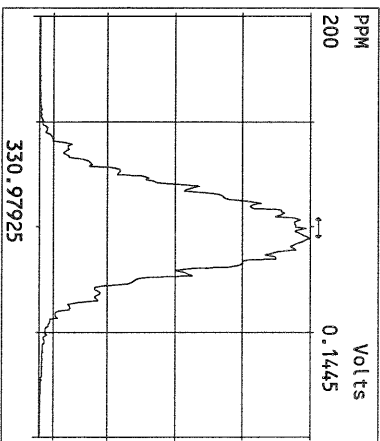
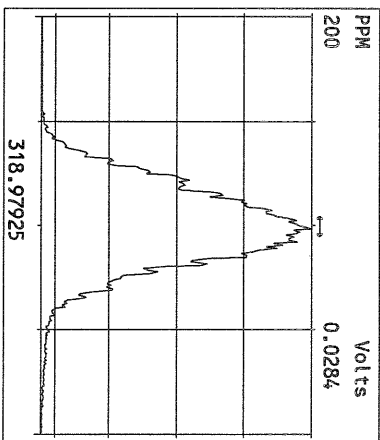
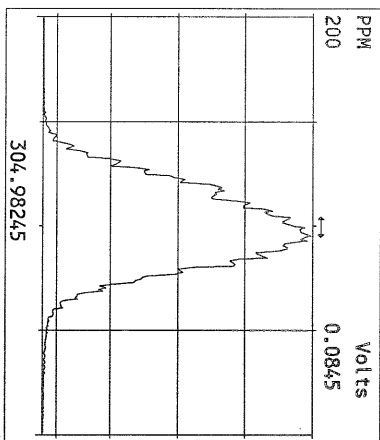
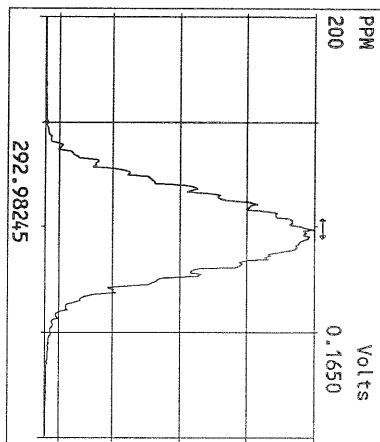


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 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory

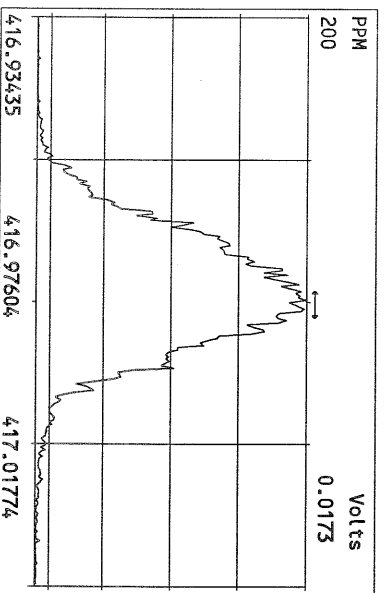
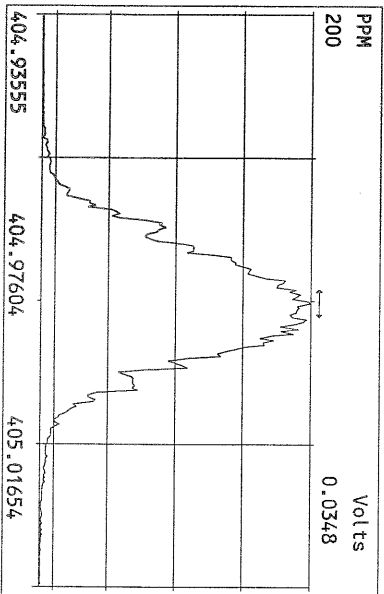
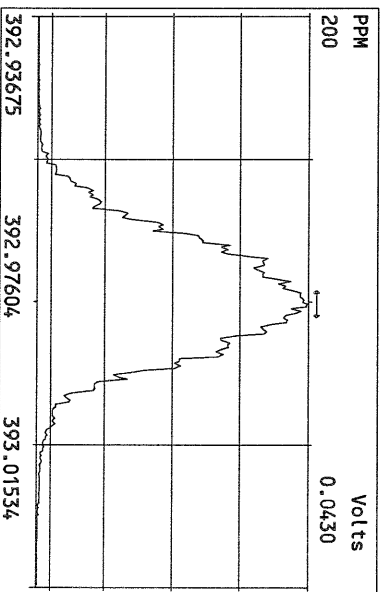
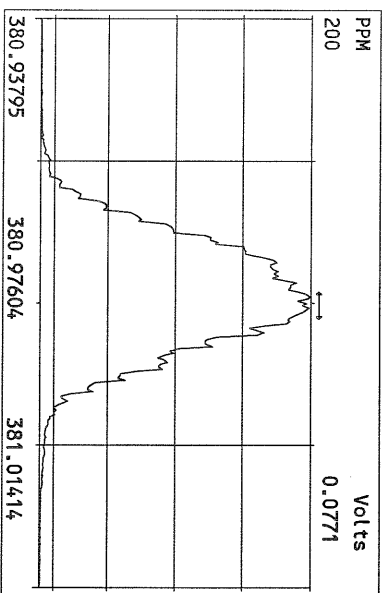
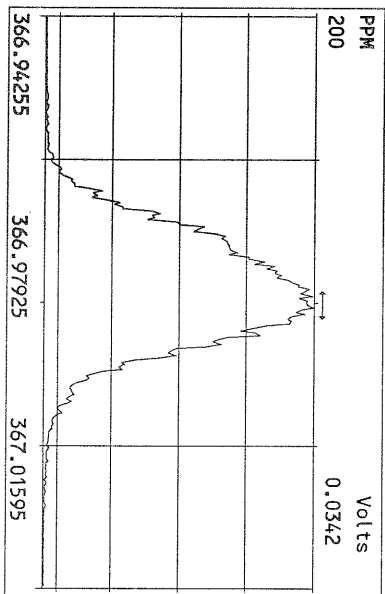
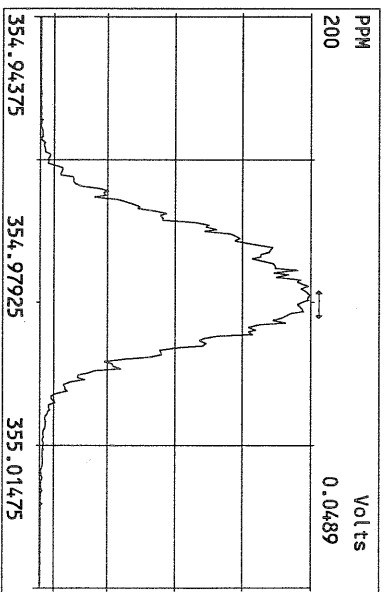
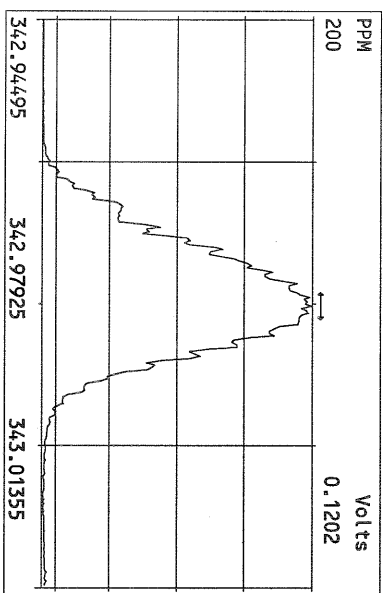
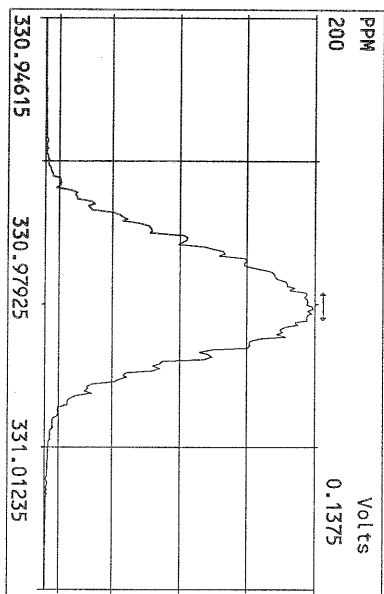


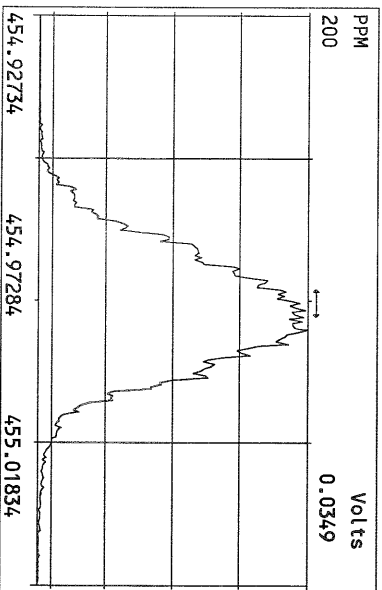
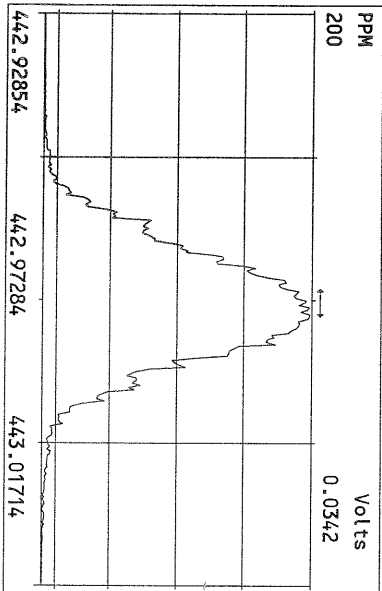
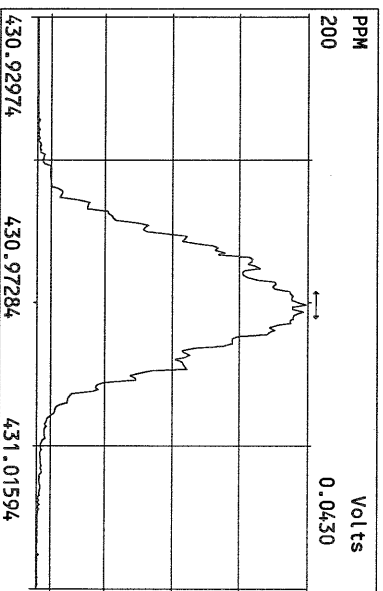
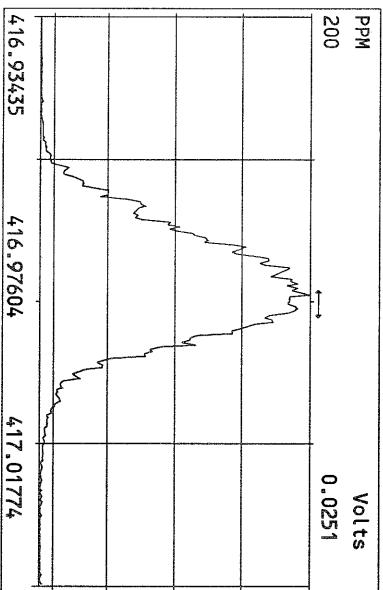
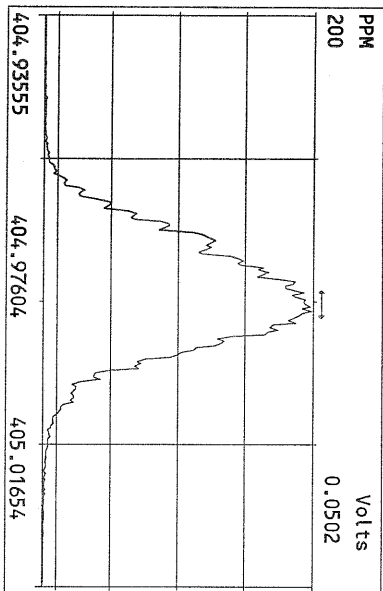
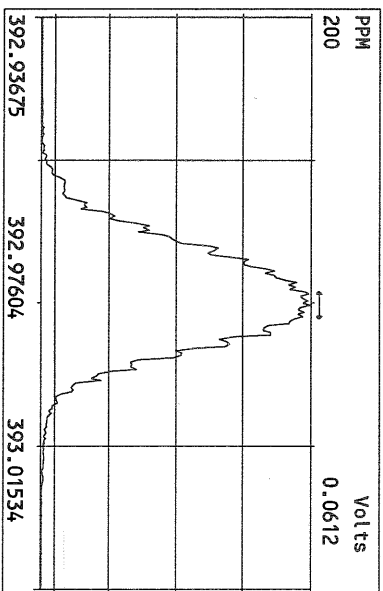
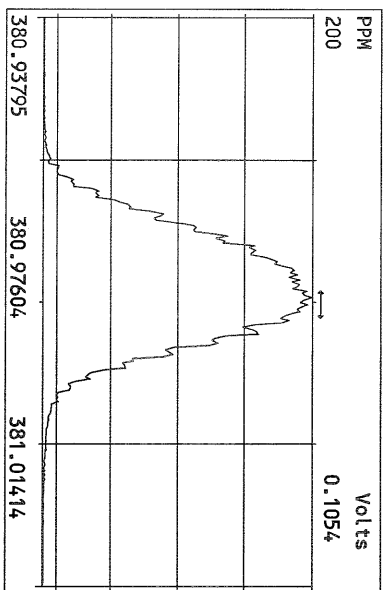
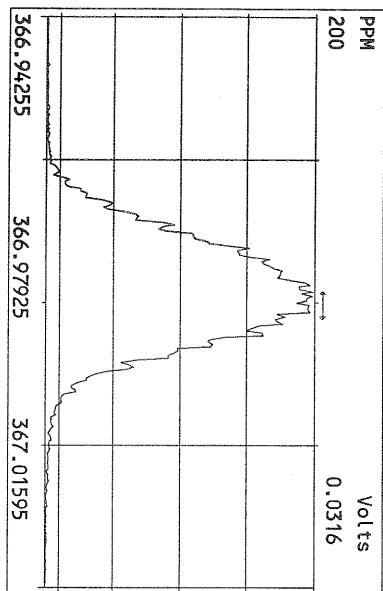
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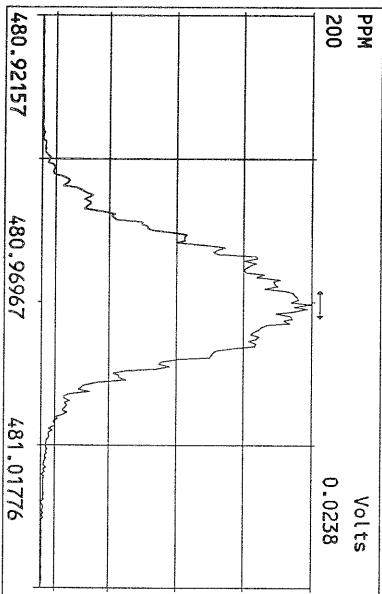
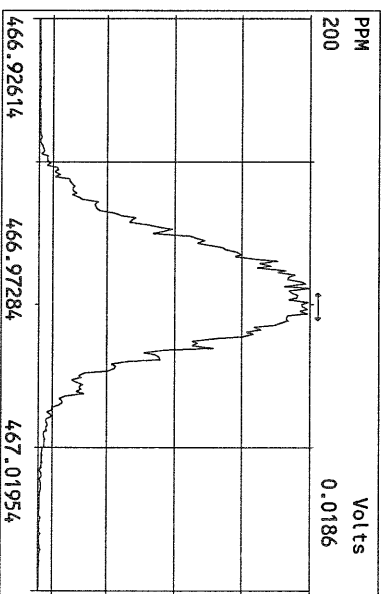
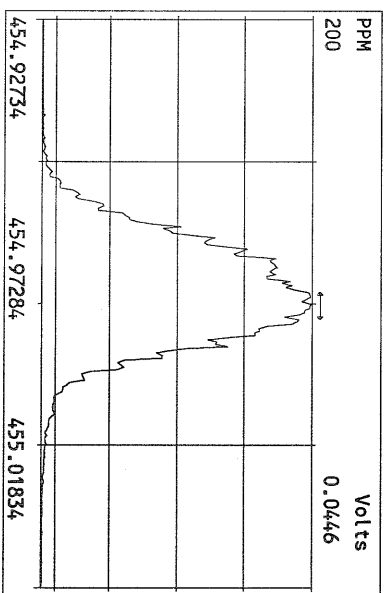
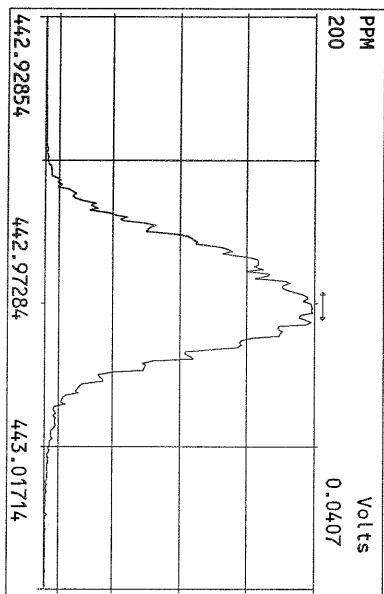
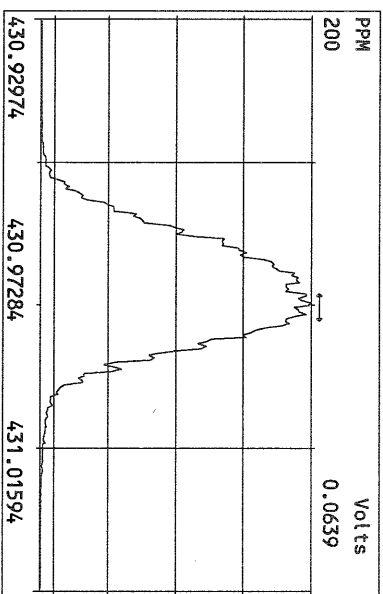
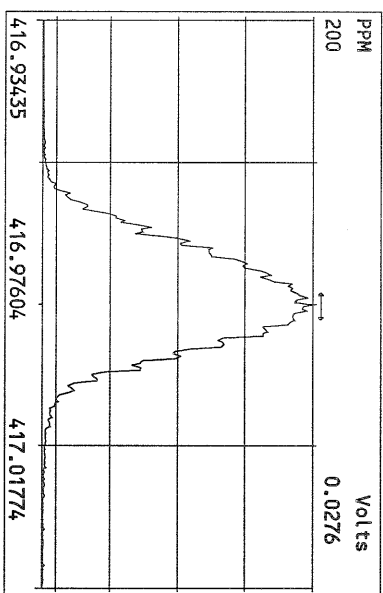
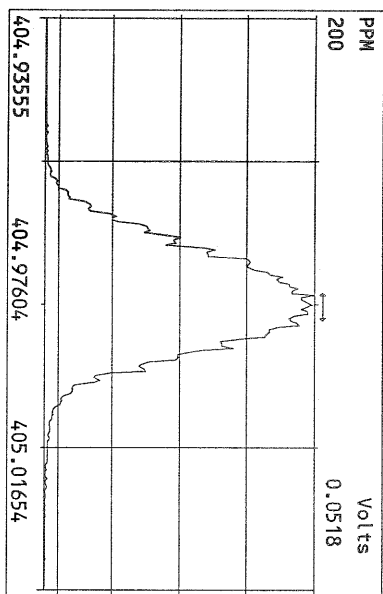


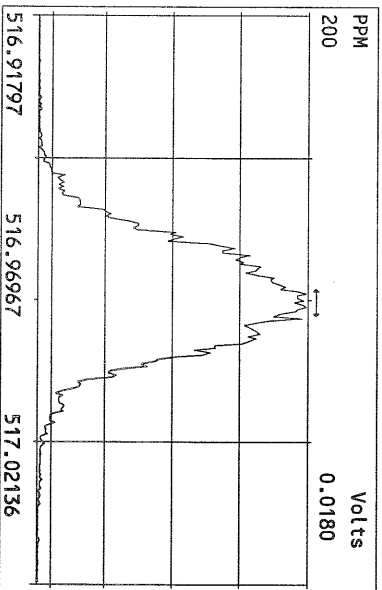
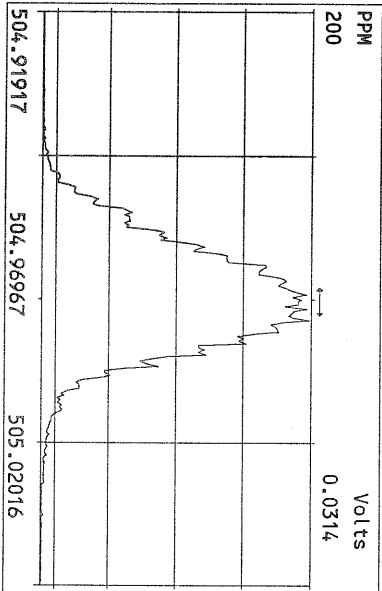
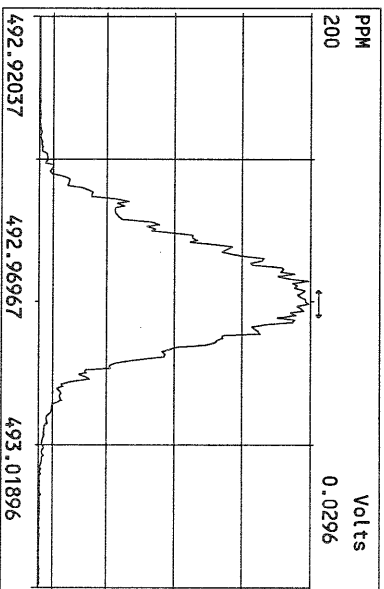
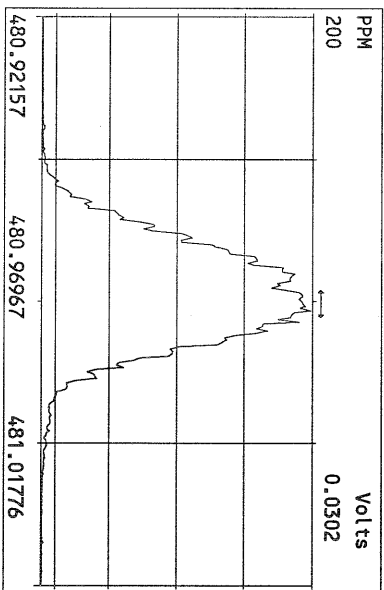
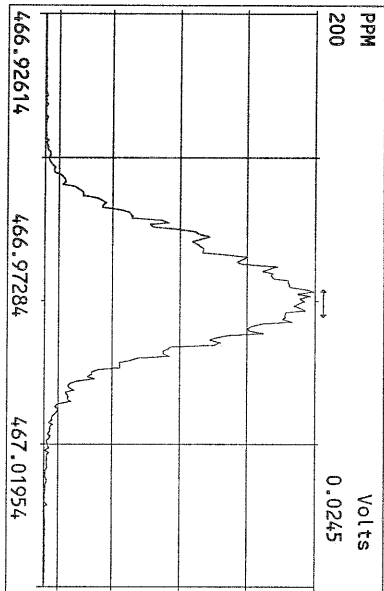
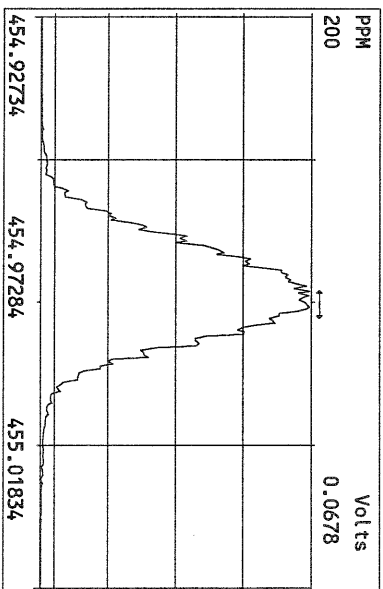
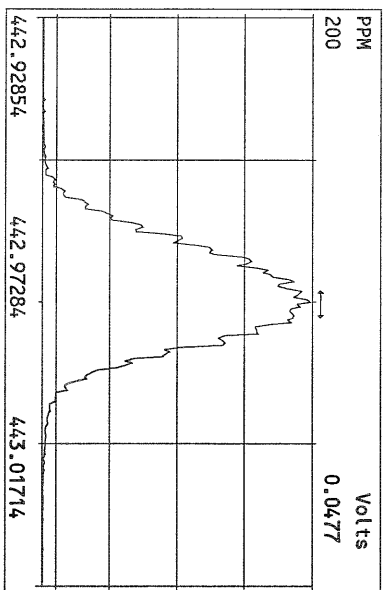
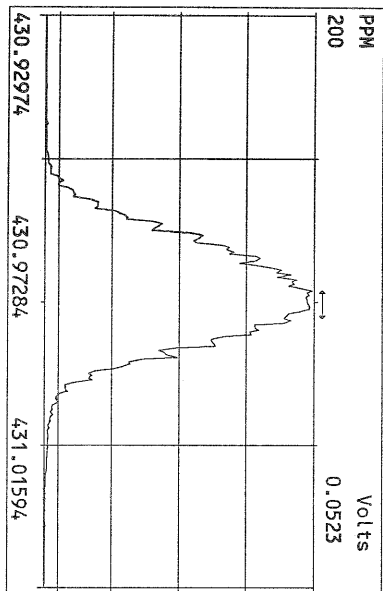












August 18, 2010

**FAL Project: 6276**

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

Dear Ms. Dunnihoo,

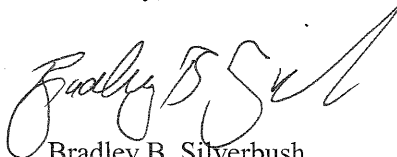
Enclosed are the results for Frontier Analytical Laboratory project **6276**. This corresponds to your **Lora Lake RI** project under ARI project number **RG79**. Eleven soil samples were received on 8/4/2010 in good condition. All samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors (TEFs) were used to calculate the toxic equivalents (TEQ) on your report. Analytical Resources Incorporated requested a Level IV data package and a turnaround time of fifteen business days for project **6276**.

Please note that all samples **except** three had analyte levels above the calibration range and thus required a dilution and re-analysis. The three samples that did not need dilution are 6276-006-SA, 6276-010-SA, 6276-011-SA (ARI IDs: PSB15-1.5-2-073010, PSB15-17-19-073010, and PSB15-17-19-073010-D respectively). Results taken from the dilutions are noted with the "\*" qualifier on the remaining eight samples.

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 chain of custody, our sample login form and the 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. You also requested Electronic Data Deliverables (EDD) for this project. The EDD and Level I summary have been sent to you via email. The Level IV report has been sent to you on compact disk. A hardcopy of the data package will not be forwarded unless specifically requested. The attached 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 **6276**, please feel free to 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: **6276**

Received on: **08/04/2010**

Project Due: **08/26/2010**

Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6276-001-SA	0	RG79	PSB11-0-0.5-073010	EPA 1613 D/F	Soil	07/30/2010	09:26 am	08/01/2011
6276-002-SA	0	RG79	PSB11-1.5-2-073010	EPA 1613 D/F	Soil	07/30/2010	09:20 am	08/01/2011
6276-003-SA	0	RG79	PSB11-2-4-073010	EPA 1613 D/F	Soil	07/30/2010	09:28 am	08/01/2011
6276-004-SA	0	RG79	PSB11-2-4-073010-D	EPA 1613 D/F	Soil	07/30/2010	09:30 am	08/01/2011
6276-005-SA	0	RG79	PSB15-0-0.5-073010	EPA 1613 D/F	Soil	07/30/2010	04:20 pm	08/01/2011
6276-006-SA	0	RG79	PSB15-1.5-2-073010	EPA 1613 D/F	Soil	07/30/2010	05:00 pm	08/01/2011
6276-007-SA	0	RG79	PSB15-2-4-073010	EPA 1613 D/F	Soil	07/30/2010	04:45 pm	08/01/2011
6276-008-SA	0	RG79	PSB15-4-6-073010	EPA 1613 D/F	Soil	07/30/2010	04:58 pm	08/01/2011
6276-009-SA	0	RG79	PSB15-13-15-073010	EPA 1613 D/F	Soil	07/30/2010	04:40 pm	08/01/2011
6276-010-SA	0	RG79	PSB15-17-19-073010	EPA 1613 D/F	Soil	07/30/2010	04:22 pm	08/01/2011
6276-011-SA	0	RG79	PSB15-17-19-073010-D	EPA 1613 D/F	Soil	07/30/2010	04:37 pm	08/01/2011

EPA Method 1613  
PCDD/F



FAL ID: 6276-001-MB  
Client ID: Method Blank  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: NA  
Amount: 5.00 g

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-09-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.212		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.316		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.361		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.436		-	0.0586	Total TCDD	ND	0.212	
1,2,3,7,8,9-HxCDD	ND	0.411		-	0.0529	Total PeCDD	ND	0.316	
1,2,3,4,6,7,8-HpCDD	ND	0.442		-	0.0954	Total HxCDD	ND	0.436	
OCDD	ND	1.70		-	0.154	Total HpCDD	ND	0.442	
2,3,7,8-TCDF	ND	0.102		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.284		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.293		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.274		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.295		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.317		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.395		-	0.0387	Total TCDF	ND	0.102	
1,2,3,4,6,7,8-HpCDF	ND	0.377		-	0.0418	Total PeCDF	ND	0.293	
1,2,3,4,7,8,9-HpCDF	ND	0.422		-	0.0429	Total HxCDF	ND	0.395	
OCDF	ND	1.01		-	0.105	Total HpCDF	ND	0.422	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.9	25.0 - 164	
13C-1,2,3,7,8-PeCDD	94.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	100	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	91.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	81.2	23.0 - 140	
13C-OCDD	60.0	17.0 - 157	
13C-2,3,7,8-TCDF	94.9	24.0 - 169	
13C-1,2,3,7,8-PeCDF	87.9	24.0 - 185	
13C-2,3,4,7,8-PeCDF	89.2	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	110	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	105	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	104	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	99.7	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	83.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	93.6	26.0 - 138	
13C-OCDF	69.6	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	91.2	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: 8/10/10

Reviewed By: [Signature]

Date: 8/12/10





EPA Method 1613  
PCDD/F



FAL ID: 6276-001-SA  
Client ID: PSB11-0-0.5-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 2.99 g  
% Solids: 89.92

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-09-2010  
2005 WHO TEQ: 59.5

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	1.09	-	J	1.09	0.0262				
1,2,3,7,8-PeCDD	4.23	-	J	4.23	0.0442				
1,2,3,4,7,8-HxCDD	6.99	-	J	6.99	0.0486				
1,2,3,6,7,8-HxCDD	57.4	-	-	5.74	0.0586	Total TCDD	5.61		-
1,2,3,7,8,9-HxCDD	24.1	-	-	2.41	0.0529	Total PeCDD	32.4		-
1,2,3,4,6,7,8-HpCDD	2490	-	-	24.9	0.0954	Total HxCDD	356		-
OCDD	30900	-	*	9.27	0.154	Total HpCDD	5150		-
2,3,7,8-TCDF	0.432	-	J	0.0432	0.0205				
1,2,3,7,8-PeCDF	0.614	-	J	0.0184	0.0298				
2,3,4,7,8-PeCDF	2.29	-	J	0.687	0.0313				
1,2,3,4,7,8-HxCDF	13.7	-	-	1.37	0.0308				
1,2,3,6,7,8-HxCDF	5.98	-	J	0.598	0.0317				
2,3,4,6,7,8-HxCDF	9.01	-	-	0.901	0.0341				
1,2,3,7,8,9-HxCDF	1.26	-	J	0.126	0.0387	Total TCDF	11.0		-
1,2,3,4,6,7,8-HpCDF	636	-	-	6.36	0.0418	Total PeCDF	54.3		-
1,2,3,4,7,8,9-HpCDF	14.5	-	-	0.145	0.0429	Total HxCDF	409		-
OCDF	3070	-	-	0.921	0.105	Total HpCDF	2240		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	97.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	92.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	101	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	87.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	92.4	23.0 - 140	
13C-OCDD	86.7	17.0 - 157	*
13C-2,3,7,8-TCDF	99.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	88.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	93.9	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	102	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	94.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	97.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	103	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	87.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	95.7	26.0 - 138	
13C-OCDF	81.3	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: 8/17/10

Reviewed By: [Signature]  
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-002-SA  
Client ID: PSB11-1.5-2-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 2.70 g  
% Solids: 90.19

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-17-2010  
2005 WHO TEQ: 21200

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	446	-		446	0.0262				
1,2,3,7,8-PeCDD	1540	-		1540	0.0442				
1,2,3,4,7,8-HxCDD	2670	-		267	0.0486				
1,2,3,6,7,8-HxCDD	24600	-		2460	0.0586	Total TCDD	2110	-	
1,2,3,7,8,9-HxCDD	8970	-		897	0.0529	Total PeCDD	10300	-	
1,2,3,4,6,7,8-HpCDD	922000	-		9220	0.0954	Total HxCDD	160000	-	
OCDD	6050000	-		1820	0.154	Total HpCDD	1800000	-	
2,3,7,8-TCDF	36.9	-	F	3.69	0.0205				
1,2,3,7,8-PeCDF	174	-		5.22	0.0298				
2,3,4,7,8-PeCDF	849	-		255	0.0313				
1,2,3,4,7,8-HxCDF	5050	-		505	0.0308				
1,2,3,6,7,8-HxCDF	2230	-		223	0.0317				
2,3,4,6,7,8-HxCDF	3680	-		368	0.0341				
1,2,3,7,8,9-HxCDF	805	-		80.5	0.0387	Total TCDF	1860	-	D,M
1,2,3,4,6,7,8-HpCDF	257000	-		2570	0.0418	Total PeCDF	13200	-	D,M
1,2,3,4,7,8,9-HpCDF	9580	-		95.8	0.0429	Total HxCDF	183000	-	D,M
OCDF	1380000	-		414	0.105	Total HpCDF	1090000	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	105	25.0 - 164	
13C-1,2,3,7,8-PeCDD	105	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	99.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	94.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.9	23.0 - 140	
13C-OCDD	95.4	17.0 - 157	
13C-2,3,7,8-TCDF	96.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	89.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	99.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	115	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	101	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	106	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	105	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	90.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	92.8	26.0 - 138	
13C-OCDF	96.3	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 102 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: 8/18/10

Reviewed By: [Signature]  
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-003-SA  
Client ID: PSB11-2-4-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 2.65 g  
% Solids: 88.46

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-09-2010  
2005 WHO TEQ: 10300

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	164	-		164	0.0262				
1,2,3,7,8-PeCDD	705	-		705	0.0442				
1,2,3,4,7,8-HxCDD	1180	-		118	0.0486				
1,2,3,6,7,8-HxCDD	11500	-	*	1150	0.0586	Total TCDD	929	-	
1,2,3,7,8,9-HxCDD	4010	-		401	0.0529	Total PeCDD	5300	-	
1,2,3,4,6,7,8-HpCDD	448000	-	*	4480	0.0954	Total HxCDD	74300	-	*
OCDD	4280000	-	*	1280	0.154	Total HpCDD	880000	-	*
2,3,7,8-TCDF	32.9	-	F	3.29	0.0205				
1,2,3,7,8-PeCDF	74.8	-		2.24	0.0298				
2,3,4,7,8-PeCDF	253	-		75.9	0.0313				
1,2,3,4,7,8-HxCDF	2560	-		256	0.0308				
1,2,3,6,7,8-HxCDF	1180	-		118	0.0317				
2,3,4,6,7,8-HxCDF	1610	-		161	0.0341				
1,2,3,7,8,9-HxCDF	178	-		17.8	0.0387	Total TCDF	1040	-	D,M
1,2,3,4,6,7,8-HpCDF	114000	-	*	1140	0.0418	Total PeCDF	8040	-	D,M
1,2,3,4,7,8,9-HpCDF	2750	-		27.5	0.0429	Total HxCDF	83500	-	D,M,*
OCDF	592000	-	*	178	0.105	Total HpCDF	460000	-	D,M,*

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	91.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	94.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	98.3	28.0 - 306	*
13C-1,2,3,4,6,7,8-HpCDD	88.7	23.0 - 140	*
13C-OCDD	61.2	17.0 - 157	*
13C-2,3,7,8-TCDF	99.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	90.9	24.0 - 185	
13C-2,3,4,7,8-PeCDF	94.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	97.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	89.0	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	92.8	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	96.5	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	93.2	28.0 - 143	*
13C-1,2,3,4,7,8,9-HpCDF	99.0	26.0 - 138	
13C-OCDF	93.5	17.0 - 157	*

Cleanup Surrogate

37CI-2,3,7,8-TCDD 96.1 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: 8/18/10

Reviewed By: [Signature]  
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-004-SA  
Client ID: PSB11-2-4-073010-D  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 3.01 g  
% Solids: 89.99

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-09-2010  
2005 WHO TEQ: 11700

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	210	-		210	0.0262				
1,2,3,7,8-PeCDD	868	-		868	0.0442				
1,2,3,4,7,8-HxCDD	1480	-		148	0.0486				
1,2,3,6,7,8-HxCDD	13500	-	*	1350	0.0586	Total TCDD	1120	-	
1,2,3,7,8,9-HxCDD	5150	-		515	0.0529	Total PeCDD	6330	-	
1,2,3,4,6,7,8-HpCDD	490000	-	*	4900	0.0954	Total HxCDD	90200	-	*
OCDD	5000000	-	*	1500	0.154	Total HpCDD	938000	-	*
2,3,7,8-TCDF	34.5	-	F	3.45	0.0205				
1,2,3,7,8-PeCDF	90.3	-		2.71	0.0298				
2,3,4,7,8-PeCDF	267	-		80.1	0.0313				
1,2,3,4,7,8-HxCDF	2690	-		269	0.0308				
1,2,3,6,7,8-HxCDF	1150	-		115	0.0317				
2,3,4,6,7,8-HxCDF	1760	-		176	0.0341				
1,2,3,7,8,9-HxCDF	207	-		20.7	0.0387	Total TCDF	1270	-	D,M
1,2,3,4,6,7,8-HpCDF	130000	-	*	1300	0.0418	Total PeCDF	9910	-	D,M
1,2,3,4,7,8,9-HpCDF	3490	-		34.9	0.0429	Total HxCDF	98600	-	D,M,*
OCDF	690000	-	*	207	0.105	Total HpCDF	520000	-	D,M,*

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	93.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	90.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	101	28.0 - 130	*
13C-1,2,3,4,6,7,8-HpCDD	94.2	23.0 - 140	*
13C-OCDD	52.6	17.0 - 157	*
13C-2,3,7,8-TCDF	100	24.0 - 169	
13C-1,2,3,7,8-PeCDF	95.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	97.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	94.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	87.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	91.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	96.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	94.0	28.0 - 143	*
13C-1,2,3,4,7,8,9-HpCDF	99.2	26.0 - 138	
13C-OCDF	88.3	17.0 - 157	*

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 96.8 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: 8/18/10

Reviewed By: [Signature]  
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-005-SA  
Client ID: PSB15-0-0.5-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 3.01 g  
% Solids: 92.25

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-09-2010  
2005 WHO TEQ: 2260

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	76.1	-	-	76.1	0.0262				
1,2,3,7,8-PeCDD	359	-	-	359	0.0442				
1,2,3,4,7,8-HxCDD	391	-	-	39.1	0.0486				
1,2,3,6,7,8-HxCDD	2190	-	-	219	0.0586	Total TCDD	1610	-	-
1,2,3,7,8,9-HxCDD	1360	-	-	136	0.0529	Total PeCDD	3660	-	-
1,2,3,4,6,7,8-HpCDD	83200	-	*	832	0.0954	Total HxCDD	19700	-	*
OCDD	903000	-	*	271	0.154	Total HpCDD	177000	-	*
2,3,7,8-TCDF	9.80	-	F	0.980	0.0205				
1,2,3,7,8-PeCDF	29.3	-	-	0.879	0.0298				
2,3,4,7,8-PeCDF	58.9	-	-	17.7	0.0313				
1,2,3,4,7,8-HxCDF	310	-	-	31.0	0.0308				
1,2,3,6,7,8-HxCDF	199	-	-	19.9	0.0317				
2,3,4,6,7,8-HxCDF	296	-	-	29.6	0.0341				
1,2,3,7,8,9-HxCDF	40.4	-	-	4.04	0.0387	Total TCDF	566	-	D,M
1,2,3,4,6,7,8-HpCDF	19800	-	*	198	0.0418	Total PeCDF	1870	-	D,M
1,2,3,4,7,8,9-HpCDF	469	-	-	4.69	0.0429	Total HxCDF	13000	-	D,M,*
OCDF	82700	-	*	24.8	0.105	Total HpCDF	68900	-	D,M,*

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.3	25.0 - 164	
13C-1,2,3,7,8-PeCDD	95.3	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	92.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	87.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	95.4	23.0 - 140	*
13C-OCDD	106	17.0 - 157	*
13C-2,3,7,8-TCDF	96.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	91.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	94.9	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	97.6	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	89.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	90.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	99.7	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	84.6	28.0 - 143	*
13C-1,2,3,4,7,8,9-HpCDF	100	26.0 - 138	
13C-OCDF	96.2	17.0 - 157	*

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 93.5 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:                           
Date: 8/18/10

Reviewed By:                           
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-006-SA  
Client ID: PSB15-1.5-2-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 3.05 g  
% Solids: 92.69

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-17-2010  
2005 WHO TEQ: 11.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.373		-	0.0262				
1,2,3,7,8-PeCDD	1.74	-	J	1.74	0.0442				
1,2,3,4,7,8-HxCDD	2.45	-	J	0.245	0.0486				
1,2,3,6,7,8-HxCDD	12.5	-		1.25	0.0586	Total TCDD	4.79		-
1,2,3,7,8,9-HxCDD	6.37	-	J	0.637	0.0529	Total PeCDD	15.2		-
1,2,3,4,6,7,8-HpCDD	408	-		4.08	0.0954	Total HxCDD	90.8		-
OCDD	4360	-		1.31	0.154	Total HpCDD	829		-
2,3,7,8-TCDF	0.526	-	J	0.0526	0.0205				
1,2,3,7,8-PeCDF	0.571	-	J	0.0171	0.0298				
2,3,4,7,8-PeCDF	1.37	-	J	0.411	0.0313				
1,2,3,4,7,8-HxCDF	3.10	-	J	0.310	0.0308				
1,2,3,6,7,8-HxCDF	1.85	-	J	0.185	0.0317				
2,3,4,6,7,8-HxCDF	2.75	-	J	0.275	0.0341				
1,2,3,7,8,9-HxCDF	0.741	-	J	0.0741	0.0387	Total TCDF	13.2		-
1,2,3,4,6,7,8-HpCDF	108	-		1.08	0.0418	Total PeCDF	21.7		-
1,2,3,4,7,8,9-HpCDF	4.04	-	J	0.0404	0.0429	Total HxCDF	82.1		-
OCDF	579	-		0.174	0.105	Total HpCDF	377		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	103	25.0 - 164	
13C-1,2,3,7,8-PeCDD	107	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	101	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	92.5	23.0 - 140	
13C-OCDD	70.4	17.0 - 157	
13C-2,3,7,8-TCDF	103	24.0 - 169	
13C-1,2,3,7,8-PeCDF	104	24.0 - 185	
13C-2,3,4,7,8-PeCDF	108	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	105	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	97.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	99.1	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	105	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	86.2	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	99.4	26.0 - 138	
13C-OCDF	73.3	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	101	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: 8/18/10

Reviewed By: [Signature]  
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-007-SA  
Client ID: PSB15-2-4-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 2.88 g  
% Solids: 94.14

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-10-2010  
2005 WHO TEQ: 51.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.844		-	0.0262				
1,2,3,7,8-PeCDD	5.78	-	J	5.78	0.0442				
1,2,3,4,7,8-HxCDD	10.9	-		1.09	0.0486				
1,2,3,6,7,8-HxCDD	58.6	-		5.86	0.0586	Total TCDD	11.3		-
1,2,3,7,8,9-HxCDD	30.4	-		3.04	0.0529	Total PeCDD	50.9		-
1,2,3,4,6,7,8-HpCDD	2020	-		20.2	0.0954	Total HxCDD	420		-
OCDD	21200	-	*	6.36	0.154	Total HpCDD	4130		-
2,3,7,8-TCDF	ND	0.411		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.853		-	0.0298				
2,3,4,7,8-PeCDF	2.73	-	J	0.819	0.0313				
1,2,3,4,7,8-HxCDF	10.5	-		1.05	0.0308				
1,2,3,6,7,8-HxCDF	5.72	-	J	0.572	0.0317				
2,3,4,6,7,8-HxCDF	9.59	-		0.959	0.0341				
1,2,3,7,8,9-HxCDF	1.40	-	J	0.140	0.0387	Total TCDF	15.1		-
1,2,3,4,6,7,8-HpCDF	520	-		5.20	0.0418	Total PeCDF	63.8		-
1,2,3,4,7,8,9-HpCDF	15.0	-		0.150	0.0429	Total HxCDF	362		-
OCDF	2420	-		0.726	0.105	Total HpCDF	1800		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	75.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	82.3	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	78.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	70.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	70.1	23.0 - 140	
13C-OCDD	54.5	17.0 - 157	*
13C-2,3,7,8-TCDF	78.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	77.5	24.0 - 185	
13C-2,3,4,7,8-PeCDF	79.0	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	83.6	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	76.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	77.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	81.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	67.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	74.5	26.0 - 138	
13C-OCDF	61.3	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 73.6 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: J  
Date: 8/17/10

Reviewed By: [Signature]  
Date: 8/19/10



EPA Method 1613  
PCDD/F



FAL ID: 6276-008-SA  
Client ID: PSB15-4-6-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 4.20 g  
% Solids: 80.95

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-10-2010  
2005 WHO TEQ: 328

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	5.38	-	-	5.38	0.0262				
1,2,3,7,8-PeCDD	33.0	-	-	33.0	0.0442				
1,2,3,4,7,8-HxCDD	74.4	-	-	7.44	0.0486				
1,2,3,6,7,8-HxCDD	396	-	-	39.6	0.0586	Total TCDD	192		-
1,2,3,7,8,9-HxCDD	212	-	-	21.2	0.0529	Total PeCDD	495		-
1,2,3,4,6,7,8-HpCDD	12700	-	*	127	0.0954	Total HxCDD	3480		-
OCDD	127000	-	*	38.1	0.154	Total HpCDD	26600		-
2,3,7,8-TCDF	1.08	-	J	0.108	0.0205				
1,2,3,7,8-PeCDF	3.68	-	J	0.110	0.0298				
2,3,4,7,8-PeCDF	6.69	-	-	2.01	0.0313				
1,2,3,4,7,8-HxCDF	49.2	-	-	4.92	0.0308				
1,2,3,6,7,8-HxCDF	37.4	-	-	3.74	0.0317				
2,3,4,6,7,8-HxCDF	60.3	-	-	6.03	0.0341				
1,2,3,7,8,9-HxCDF	7.07	-	-	0.707	0.0387	Total TCDF	98.7		-
1,2,3,4,6,7,8-HpCDF	3350	-	-	33.5	0.0418	Total PeCDF	364		-
1,2,3,4,7,8,9-HpCDF	97.8	-	-	0.978	0.0429	Total HxCDF	2490		-
OCDF	12800	-	*	3.84	0.105	Total HpCDF	11900		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	96.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	95.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	86.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	93.4	23.0 - 140	*
13C-OCDD	89.1	17.0 - 157	*
13C-2,3,7,8-TCDF	93.7	24.0 - 169	
13C-1,2,3,7,8-PeCDF	93.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	98.1	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	106	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	95.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	94.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	97.5	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	88.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	86.7	26.0 - 138	
13C-OCDF	86.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	89.1	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: 8/19/10

Reviewed By: [Signature]  
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-009-SA  
Client ID: PSB15-13-15-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 2.98 g  
% Solids: 84.62

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-10-2010  
2005 WHO TEQ: 134

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	2.10	-		2.10	0.0262				
1,2,3,7,8-PeCDD	8.59	-		8.59	0.0442				
1,2,3,4,7,8-HxCDD	22.1	-		2.21	0.0486				
1,2,3,6,7,8-HxCDD	137	-		13.7	0.0586	Total TCDD	84.6		-
1,2,3,7,8,9-HxCDD	54.0	-		5.40	0.0529	Total PeCDD	232		-
1,2,3,4,6,7,8-HpCDD	5700	-		57.0	0.0954	Total HxCDD	1580		-
OCDD	73500	-	*	22.0	0.154	Total HpCDD	12100		-
2,3,7,8-TCDF	1.34	-	J	0.134	0.0205				
1,2,3,7,8-PeCDF	1.73	-	J	0.0519	0.0298				
2,3,4,7,8-PeCDF	2.83	-	J	0.849	0.0313				
1,2,3,4,7,8-HxCDF	28.0	-		2.80	0.0308				
1,2,3,6,7,8-HxCDF	16.3	-		1.63	0.0317				
2,3,4,6,7,8-HxCDF	28.1	-		2.81	0.0341				
1,2,3,7,8,9-HxCDF	6.30	-	J	0.630	0.0387	Total TCDF	68.7		-
1,2,3,4,6,7,8-HpCDF	1180	-		11.8	0.0418	Total PeCDF	202		-
1,2,3,4,7,8,9-HpCDF	37.9	-		0.379	0.0429	Total HxCDF	1100		-
OCDF	5750	-		1.72	0.105	Total HpCDF	4440		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	96.4	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	96.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	88.2	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	91.7	23.0 - 140	
13C-OCDD	97.5	17.0 - 157	*
13C-2,3,7,8-TCDF	100	24.0 - 169	
13C-1,2,3,7,8-PeCDF	97.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	102	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	103	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	92.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	93.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	101	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	82.7	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	93.7	26.0 - 138	
13C-OCDF	86.3	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 88.8 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: 8  
Date: 8/17/10

Reviewed By: [Signature]  
Date: 8/19/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-010-SA  
Client ID: PSB15-17-19-073010  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 3.75 g  
% Solids: 82.04

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-10-2010  
2005 WHO TEQ: 0.704

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	ND	0.388		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.473		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.858		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	1.03		-	0.0586	Total TCDD	1.23	-	J
1,2,3,7,8,9-HxCDD	ND	0.973		-	0.0529	Total PeCDD	2.02	-	J
1,2,3,4,6,7,8-HpCDD	28.8	-		0.288	0.0954	Total HxCDD	14.7	-	
OCDD	1270	-		0.381	0.154	Total HpCDD	82.1	-	
2,3,7,8-TCDF	ND	0.215		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.437		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.445		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.468		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.494		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.552		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.644		-	0.0387	Total TCDF	ND	0.215	
1,2,3,4,6,7,8-HpCDF	3.17	-	J	0.0317	0.0418	Total PeCDF	ND	0.445	
1,2,3,4,7,8,9-HpCDF	ND	0.707		-	0.0429	Total HxCDF	2.42	-	J
OCDF	12.0	-	J	0.00360	0.105	Total HpCDF	9.40	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	104	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	100	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	90.7	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	79.6	23.0 - 140	
13C-OCDD	55.9	17.0 - 157	
13C-2,3,7,8-TCDF	93.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	94.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	96.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	109	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	102	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	101	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	104	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	80.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	88.4	26.0 - 138	
13C-OCDF	62.1	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 93.0 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: 8/10/10

Reviewed By: [Signature]  
Date: 8/12/10

EPA Method 1613  
PCDD/F



FAL ID: 6276-011-SA  
Client ID: PSB15-17-19-073010-D  
Matrix: Soil  
Batch No: X2075

Date Extracted: 08-06-2010  
Date Received: 08-04-2010  
Amount: 3.61 g  
% Solids: 85.55

ICal: PCDDFAL3-5-12-10  
GC Column: DB5  
Units: pg/g

Acquired: 08-10-2010  
2005 WHO TEQ: 0.831

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	ND	0.332		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.438		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.907		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	1.04		-	0.0586	Total TCDD	6.73	-	
1,2,3,7,8,9-HxCDD	ND	1.00		-	0.0529	Total PeCDD	2.76	-	J
1,2,3,4,6,7,8-HpCDD	33.5	-		0.335	0:0954	Total HxCDD	20.0	-	
OCDD	1560	-		0.468	0.154	Total HpCDD	95.4	-	
2,3,7,8-TCDF	ND	0.133		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.343		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.326		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.298		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.311		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.332		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.382		-	0.0387	Total TCDF	0.557	-	J
1,2,3,4,6,7,8-HpCDF	2.46	-	J	0.0246	0.0418	Total PeCDF	ND	0.343	
1,2,3,4,7,8,9-HpCDF	ND	0.499		-	0.0429	Total HxCDF	2.65	-	J
OCDF	11.3	-	J	0.00339	0.105	Total HpCDF	9.00	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	90.3	25.0 - 164	
13C-1,2,3,7,8-PeCDD	91.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	91.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	84.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	77.1	23.0 - 140	
13C-OCDD	56.2	17.0 - 157	
13C-2,3,7,8-TCDF	96.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	87.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	93.9	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	101	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	90.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	91.1	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	97.5	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	75.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	86.8	26.0 - 138	
13C-OCDF	62.5	17.0 - 157	
Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	95.1	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: 8/10/10

Reviewed By: [Signature]  
Date: 8/12/10

SUBCONTRACTOR ANALYSIS REQUEST  
CUSTODY TRANSFER 08/03/10



ARI Project: RG79

*jc*

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

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

*6276  
000*

*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, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
1 10-18505-RG79A	PSB11-0-0.5-073010	07/30/10 09:26	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
2 10-18506-RG79B	PSB11-1.5-2-073010	07/30/10 09:20	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
3 10-18507-RG79C	PSB11-2-4-073010	07/30/10 09:28	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
4 10-18508-RG79D	PSB11-2-4-073010-D	07/30/10 09:30	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
5 10-18515-RG79K	PSB15-0-0.5-073010	07/30/10 16:20	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
6 10-18516-RG79L	PSB15-1.5-2-073010	07/30/10 17:00	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
7 10-18517-RG79M	PSB15-2-4-073010	07/30/10 16:45	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
8 10-18518-RG79N	PSB15-4-6-073010	07/30/10 16:58	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					

*17 832 695 01 51203698*

Carrier <i>UPS</i>	Airbill <i>17 832 695 01 5008 9501</i>	Date <i>8/3/10</i>
Relinquished by <i>Mikka Malumba</i>	Company <i>ARI</i>	Date <i>8/3/10</i>
Received by <i>Tom Chaitre</i>	Company <i>Frontier Analytical</i>	Date <i>8/4/10</i>
		Time <i>10:40 AM</i>

SUBCONTRACTOR ANALYSIS REQUEST  
 CUSTODY TRANSFER 08/03/10

*6226  
002*



ARI Project: RG79

*OR*

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
10-18519-RG790	PSB15-13-15-073010	07/30/10 16:40	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-18520-RG79P	PSB15-17-19-073010	07/30/10 16:22	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-18521-RG79Q	PSB15-17-19-073010-D	07/30/10 16:37	Soil	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					

*LLA & EDD*

Carrier	<i>UPS</i>	Airbill	Date	<i>8/3/10</i>
Relinquished by	<i>Pirkka Mutumbe</i>	Company	<i>ARI</i>	Date
			<i>8/3/10</i>	Time
				<i>1530</i>
Received by	<i>Tom Qualtrio</i>	Company	<i>Frontier Analytical</i>	Date
			<i>8/4/10</i>	Time
				<i>10:40 AM</i>

## Frontier Analytical Laboratory

### Sample Login Form

FAL Project ID: **6276**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	RG79
Date Received:	08/04/2010
Time Received:	10:40 am
Received By:	TC
Logged In By:	BS
# of Samples Received:	11
Duplicates:	0
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950151203698
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	08/01/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	
L4 DATA PACKAGE & EDD	





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

Project #: 6276                      Sample #: 1-11                      Client Manager: BS  
Client: Analytical Resources Inc. Sue Dunning                      Hold Time: 08/01/2011  
Matrix: Soil                      Extraction Batch: 2075                      Due Date: 08/26/2010  
Method: EPA 1613 D/F                      Storage: R1  
SOP: SOPs: EP2A Rev.7 IP2A Rev.8

**COMMENTS/INSTRUCTIONS:**

Results: 6276  
6276-10  
Extract/s located in box: "yield"  
Standards: 6276

Instrument: Fal3  
DB5 \_\_\_\_\_  
DB225 \_\_\_\_\_  
DB1 \_\_\_\_\_  
Other \_\_\_\_\_



# EXTRACTION SHEET

Project #: 6276      Extraction Date: 2010-08-06      Extraction Chemist: GN

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: 090918A Vial: 1 Chemist/Witness/Date	Amt: 10.0uL ID: 090918B Vial: 1 Chemist/Witness/Date	Amt: 10.0uL ID: 090918C Vial: 1 Chemist/Witness/Date
6276-001-0001-MB					
6276-001-0001-OPR					
6276-001-0001-SA	3.33	2.99	GN $\nabla$ 8/6/10	NA	GN $\nabla$ 8/9/10
6276-002-0001-SA	2.99	2.70			
6276-003-0001-SA	3.00	2.65			
6276-004-0001-SA	3.35	3.01			
6276-005-0001-SA	3.26	3.01			
6276-006-0001-SA	3.29	3.05			
6276-007-0001-SA	3.06	2.88			
6276-008-0001-SA	5.19	4.20			
6276-009-0001-SA	3.52	2.98			
6276-010-0001-SA	4.57	3.75			
6276-011-0001-SA	4.22	3.61			

6276

AX-21 Charcoal Cleaned	031210	Acetone	101196	Acid Alumina	08623DJ	Hexane	50055
Hydrochloric Acid	B08505	Methanol	096965	Methylene Chloride (DCM)	50057	Silica Gel	TA1593034
Sodium Hydroxide	9265	Sodium Sulfate	49009905	Sulfuric Acid	096894	Tetradecane	081394
Toluene	101346	Water	49350	C-18 Empore Discs	320505	Cyclohexane	48151

Comments:



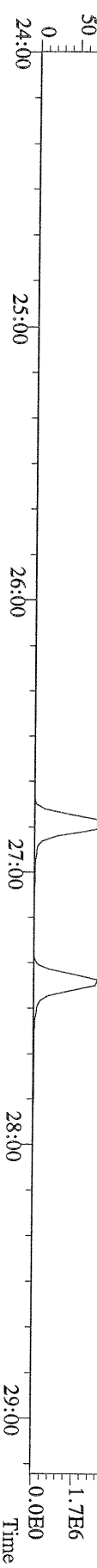
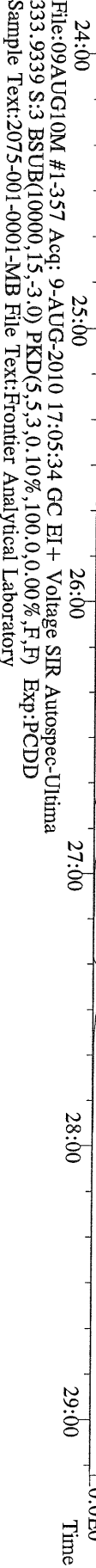
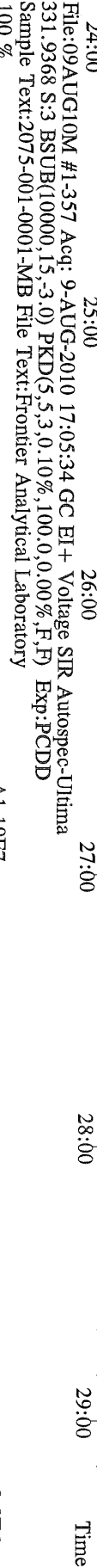
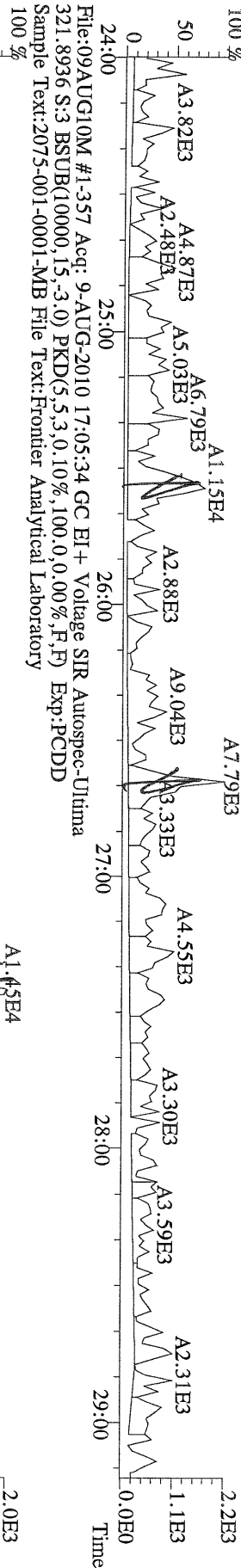
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 Client ID: Method Blank      ConCal: ST080910M1      EndCal: ST080910M2  
 Results: 2075      GC Column: DB5      Amount: 5.000      NATO 1989 Tox: 0.00      WHO 1998 Tox: 0.00      WHO 2005 Tox: 0.00

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	554	525	0.212	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	724	491	0.316	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	640	578	0.361	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	*		2.50	640	578	0.436	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	640	578	0.411	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.35	*		2.50	507	526	0.442	
OCDD	*	* n	NotFnd	1.25	*		2.50	795	726	1.70	
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	582	692	0.102	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	620	848	0.284	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	620	848	0.293	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	645	641	0.274	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	645	641	0.295	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	645	641	0.317	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	645	641	0.395	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.38	*		2.50	615	544	0.377	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	615	544	0.422	
OCDF	*	* n	NotFnd	0.74	*		2.50	601	538	1.01	
13C-2,3,7,8-TCDD	2.29e+07	0.83 y	27:24	0.93	376					93.9	
13C-1,2,3,7,8-PeCDD	2.00e+07	1.76 y	33:13	0.81	376					94.0	
13C-1,2,3,4,7,8-HxCDD	1.30e+07	1.21 y	38:35	0.95	401					100	
13C-1,2,3,6,7,8-HxCDD	1.26e+07	1.21 y	38:45	1.00	367					91.9	
13C-1,2,3,4,6,7,8-HpCDD	1.03e+07	1.02 y	44:10	0.92	325					81.2	
13C-OCDD	1.04e+07	0.90 y	49:43	0.63	480					60.0	
13C-2,3,7,8-TCDF	3.41e+07	0.88 y	26:39	0.87	380					94.9	
13C-1,2,3,7,8-PeCDF	2.93e+07	1.67 y	31:29	0.81	352					87.9	
13C-2,3,4,7,8-PeCDF	2.77e+07	1.66 y	32:49	0.75	357					89.2	
13C-1,2,3,4,7,8-HxCDF	2.62e+07	0.51 y	37:11	1.74	438					110	
13C-1,2,3,6,7,8-HxCDF	3.13e+07	0.51 y	37:23	2.17	420					105	
13C-2,3,4,6,7,8-HxCDF	2.60e+07	0.52 y	38:19	1.82	416					104	
13C-1,2,3,7,8,9-HxCDF	2.03e+07	0.50 y	39:46	1.49	399					99.7	
13C-1,2,3,4,6,7,8-HpCDF	1.27e+07	0.42 y	42:17	1.10	336					83.9	
13C-1,2,3,4,7,8,9-HpCDF	1.05e+07	0.42 y	45:06	0.81	375					93.6	
13C-OCDF	2.27e+07	0.99 y	50:05	1.19	557					69.6	
37Cl-2,3,7,8-TCDD	8.92e+06		27:25	0.93	146					91.2	
13C-1,2,3,4-TCDD	2.63e+07	0.83 y	26:50	-	15.5						
13C-1,2,3,4-TCDF	4.13e+07	0.88 y	25:34	-	15.5						
13C-1,2,3,7,8,9-HxCDD	1.37e+07	1.21 y	39:12	-	12.7						
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	554	525	0.212	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	724	491	0.316	0
Total Hexa-Dioxins	*		NotFnd	1.27	*		2.50	640	578	0.436	0
Total Hepta-Dioxins	*		NotFnd	1.35	*		2.50	507	526	0.442	0
Total Tetra-Furans	*		NotFnd	1.62	*		2.50	582	692	0.102	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.93	*		2.50	620	848	0.293	PeCDF 0
Total Penta-Furans	*		NotFnd	0.93	*		2.50	620	848	0.293	* 0
Total Hexa-Furans	*		NotFnd	0.90	*		2.50	645	641	0.395	0
Total Hepta-Furans	*		NotFnd	1.48	*		2.50	615	544	0.422	0

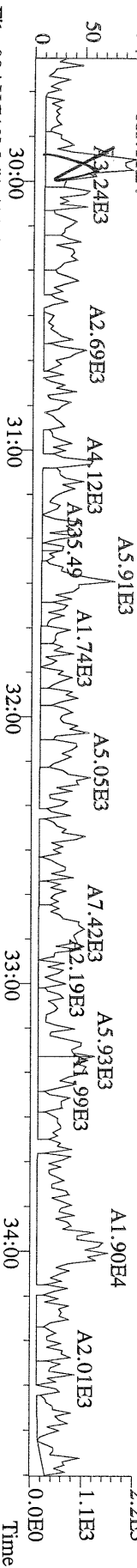
Analyst: 

Date: 8/10/10

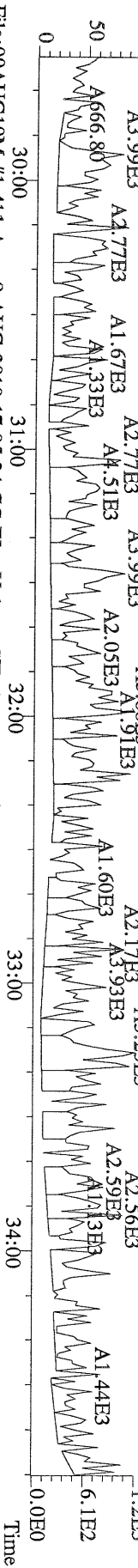
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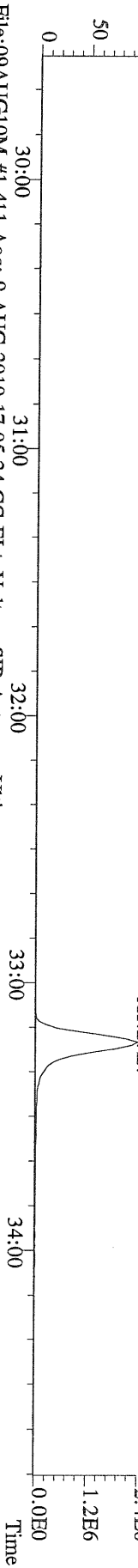
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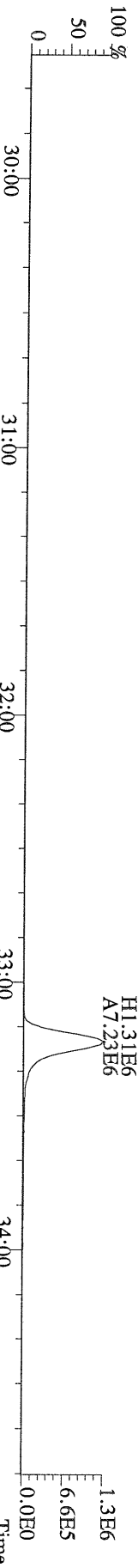
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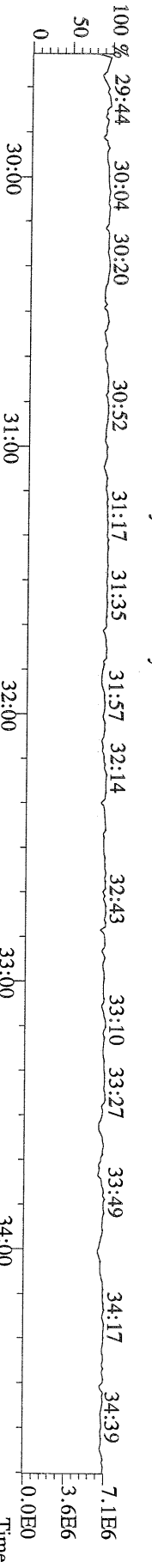
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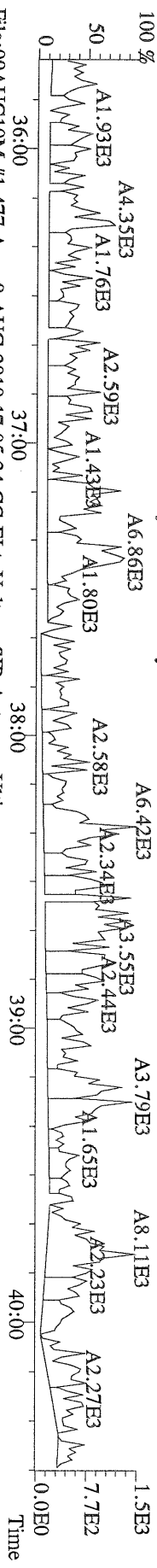
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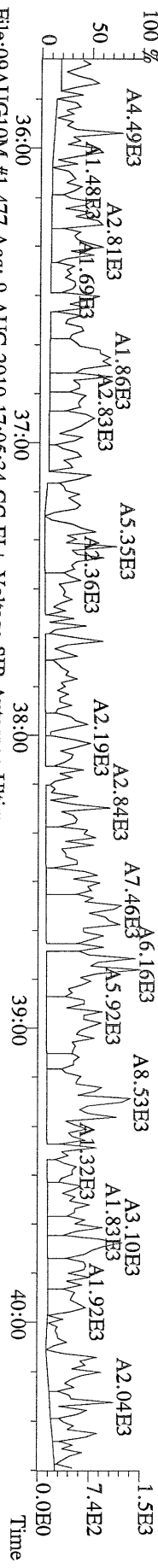
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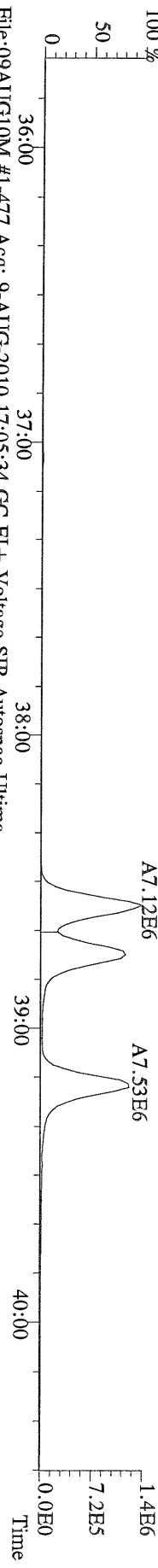
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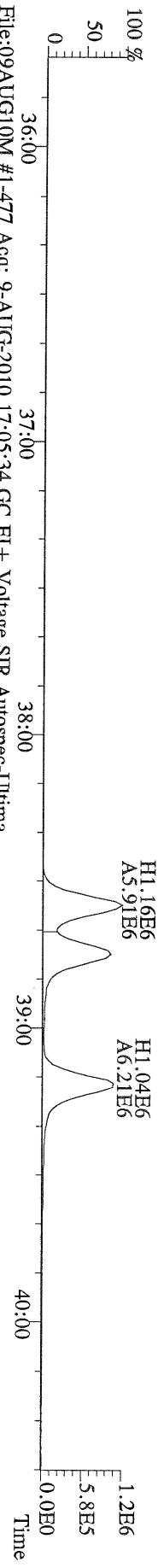
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 391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



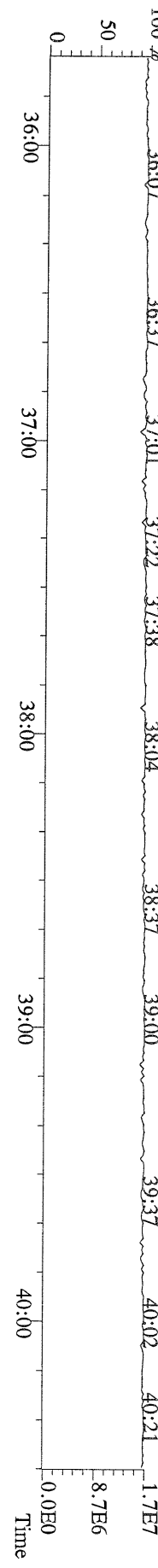
File:09AUG10M #1-477 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



File:09AUG10M #1-477 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 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:2075-001-0001-MB File Text:Frontier Analytical Laboratory

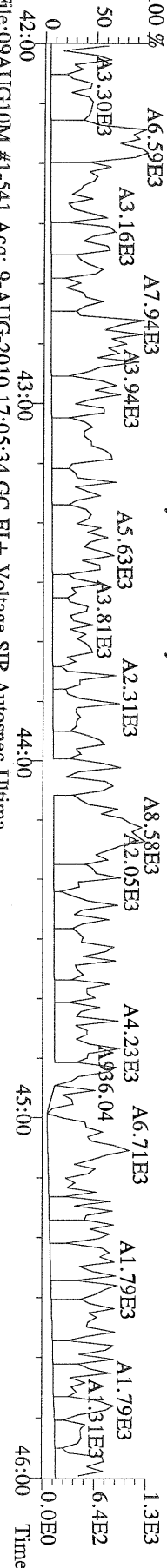


File:09AUG10M #1-477 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:3 F:3 Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory

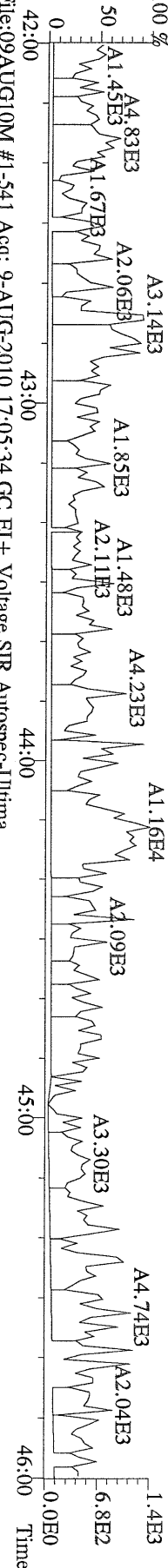




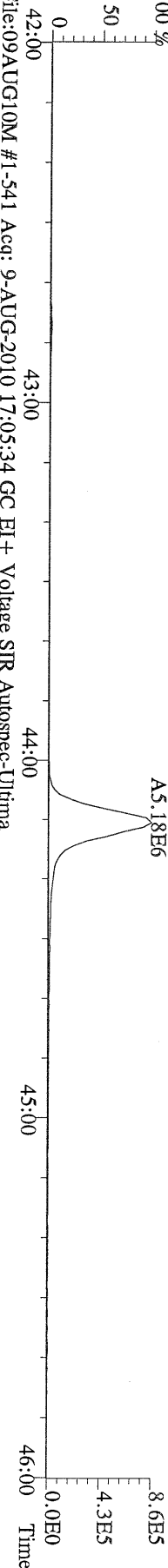
File:09AUG10M #1-541 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



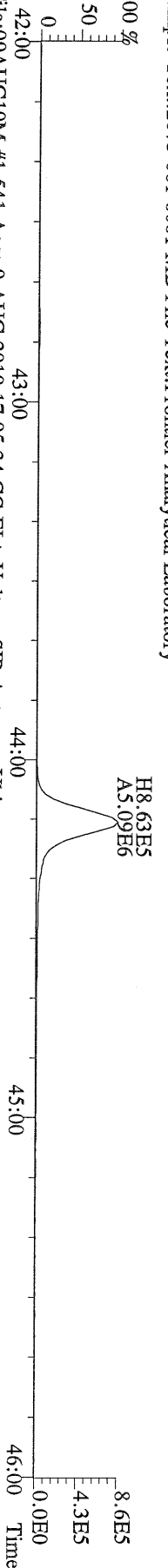
File:09AUG10M #1-541 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



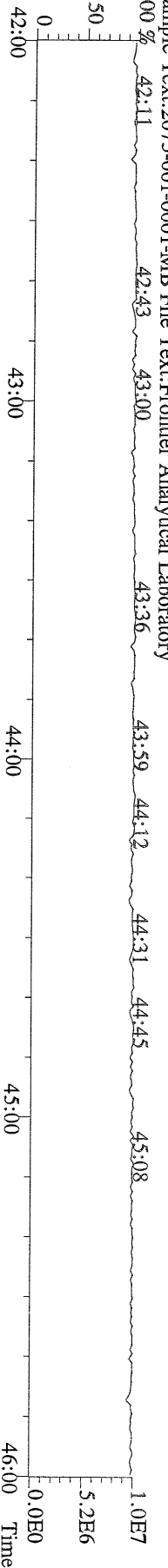
File:09AUG10M #1-541 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



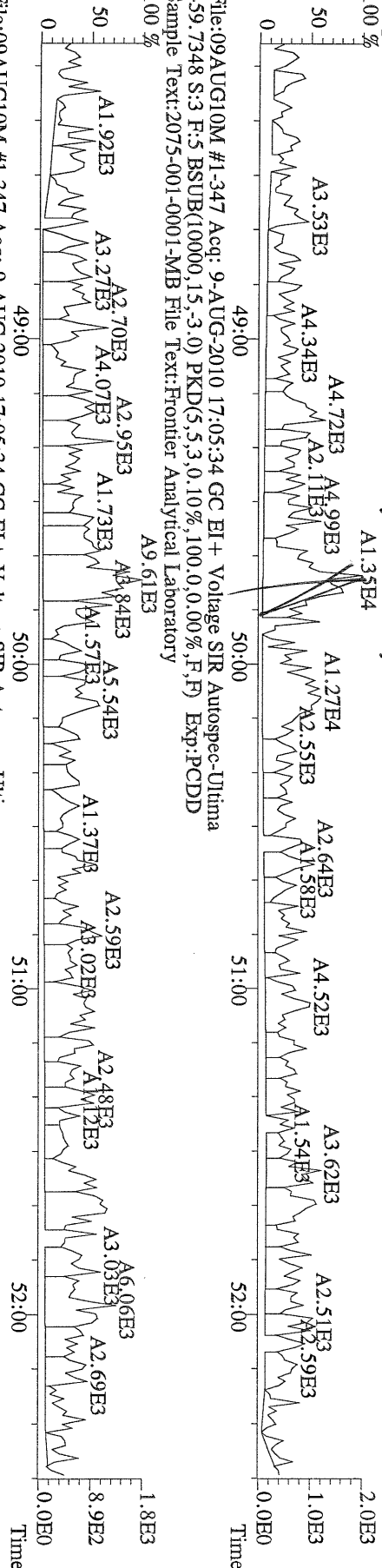
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437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
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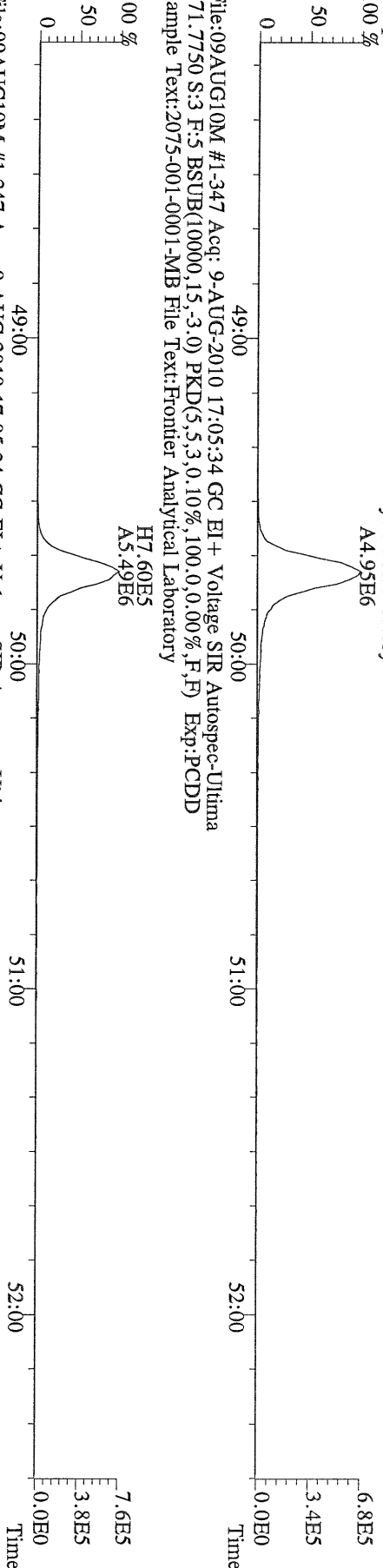
File:09AUG10M #1-541 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:3 F:4 Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



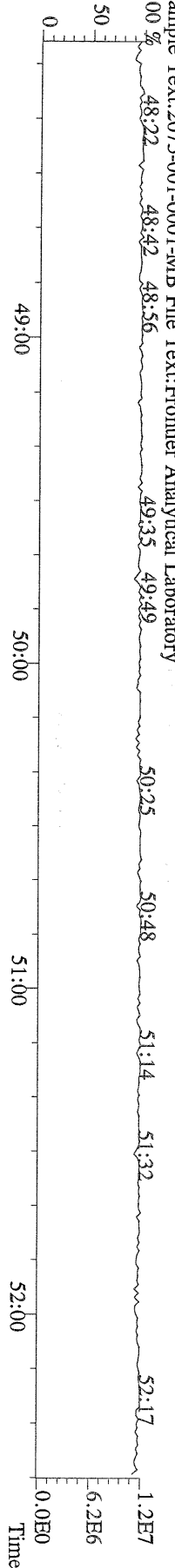
File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



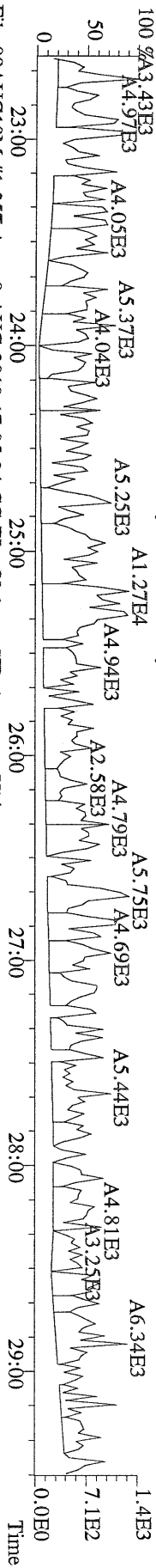
File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



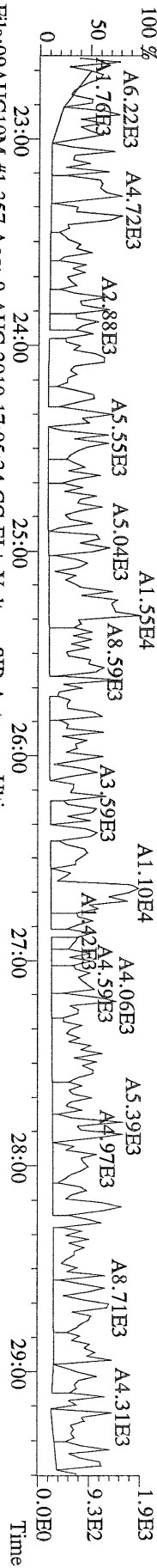
File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:3 F:5 Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



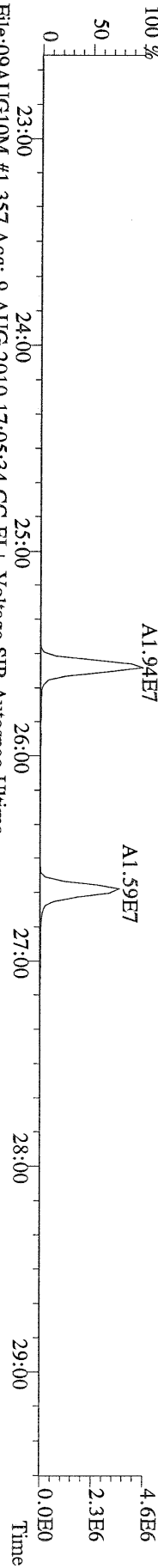
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



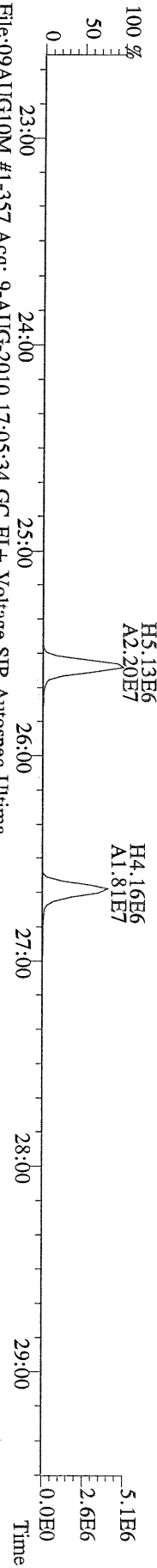
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



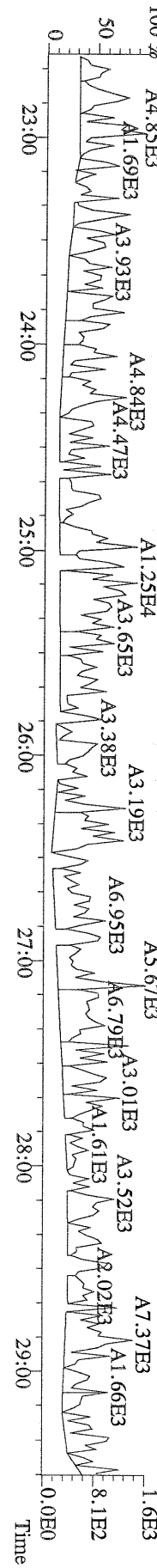
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



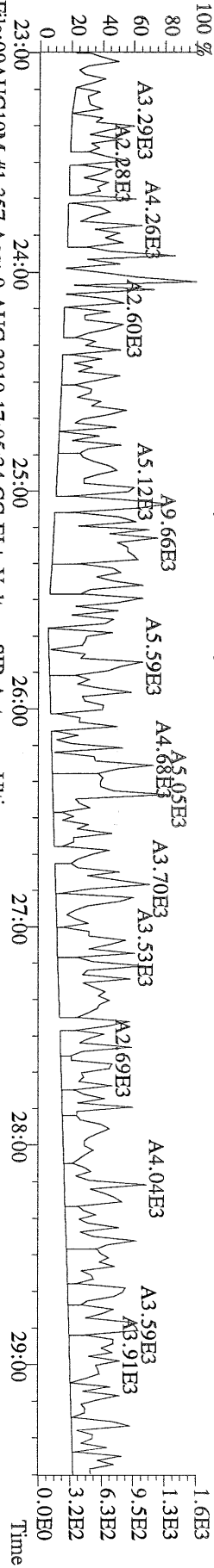
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



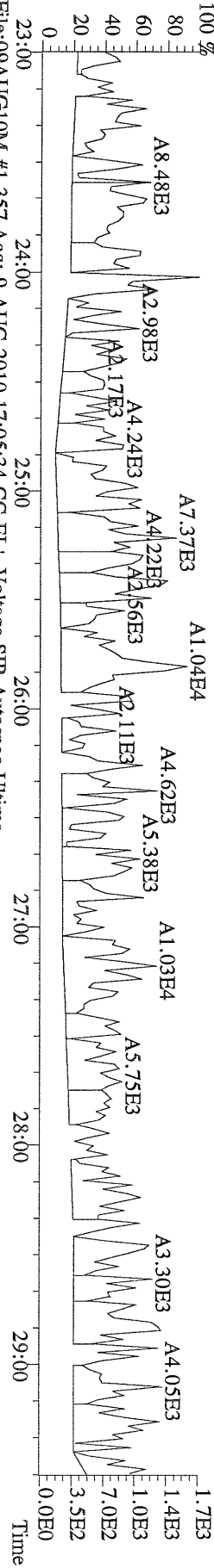
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



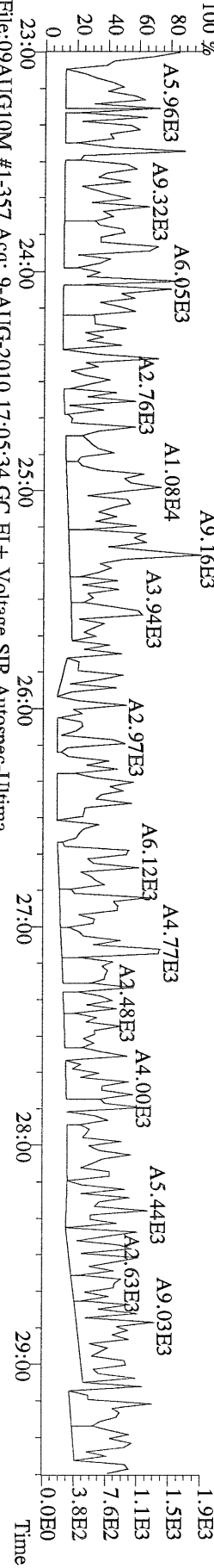
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



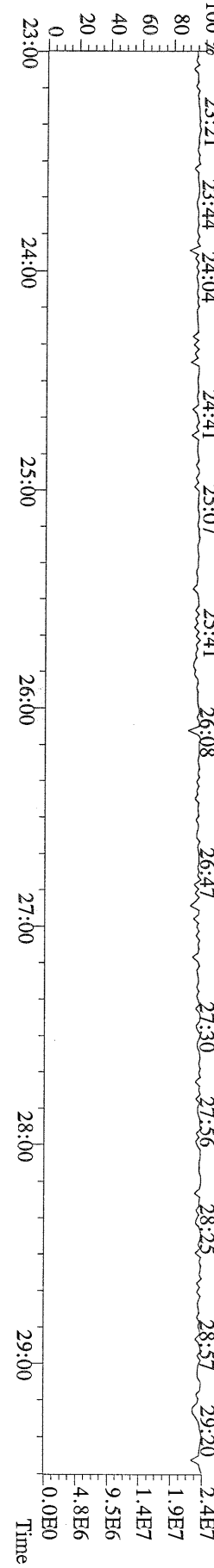
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



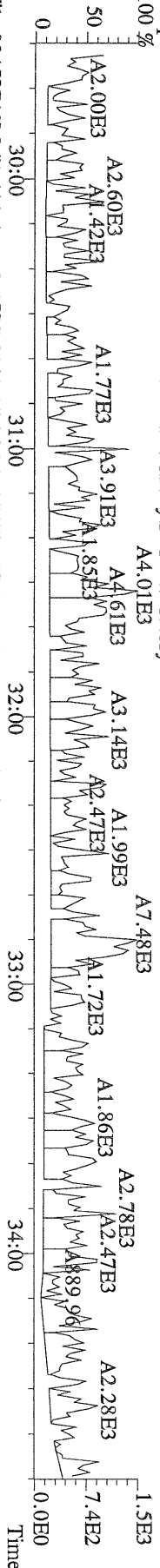
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
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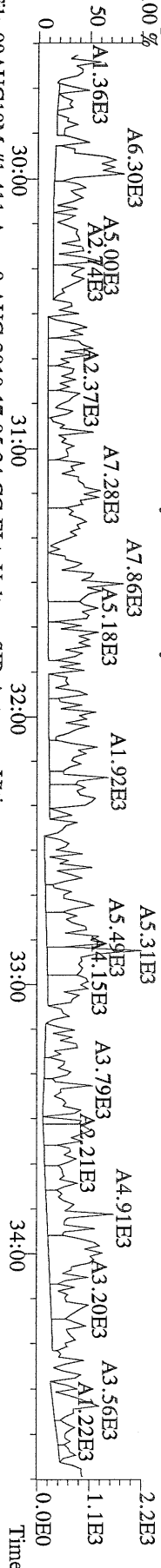
File:09AUG10M #1-357 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:3 Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



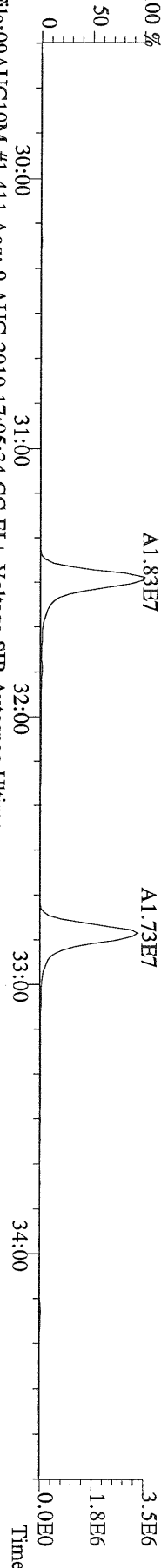
File:09AUG10M #1-411 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
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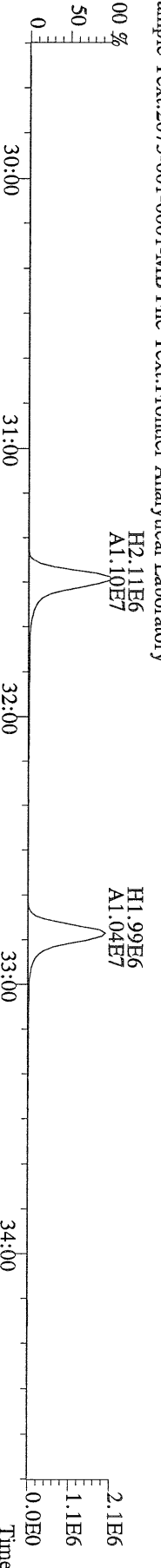
File:09AUG10M #1-411 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



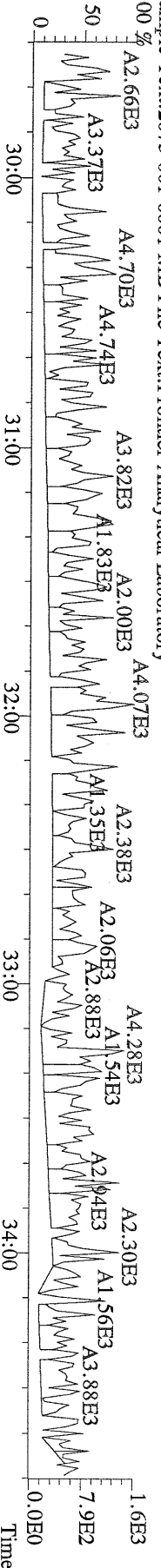
File:09AUG10M #1-411 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



File:09AUG10M #1-411 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory

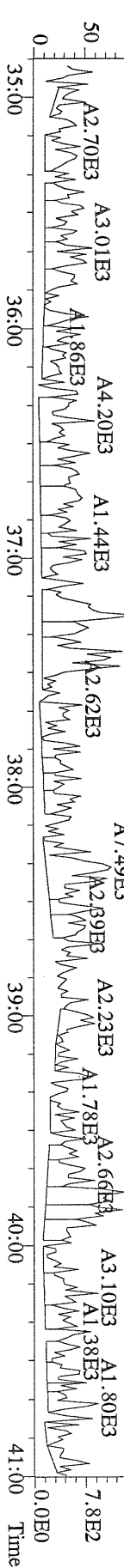


File:09AUG10M #1-411 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory

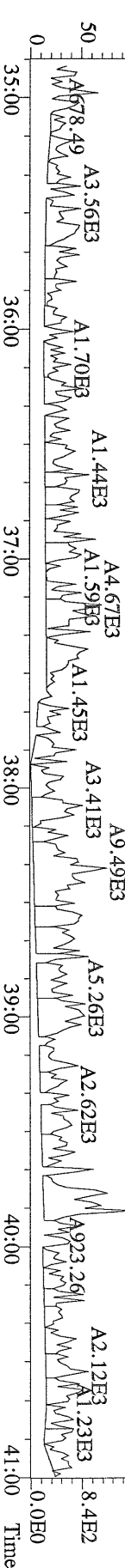


File:09AUG10M #1-411 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory

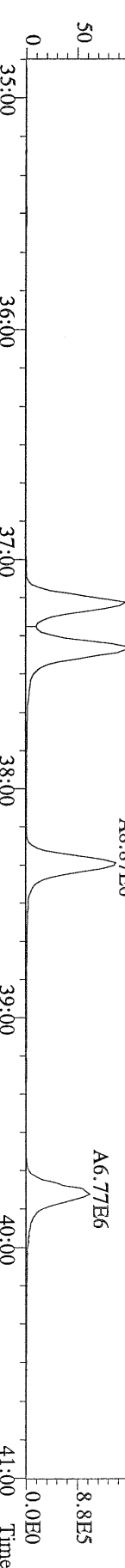
File:09AUG10M #1-477 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



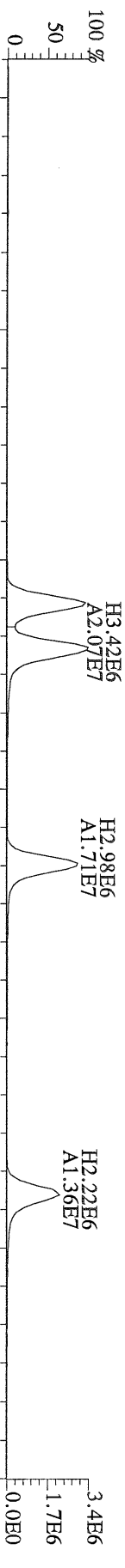
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 375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



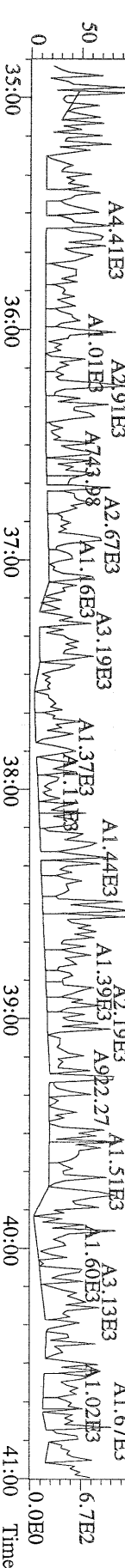
File:09AUG10M #1-477 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



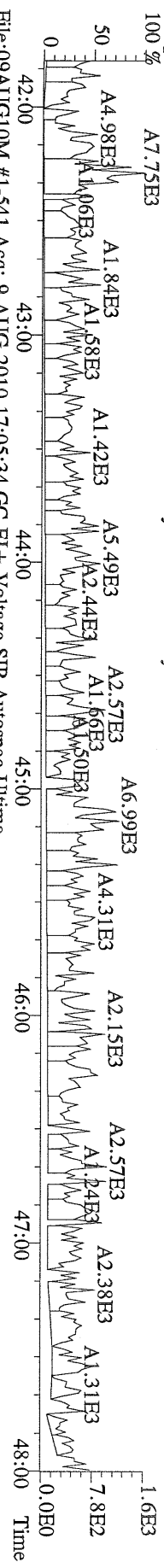
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 385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



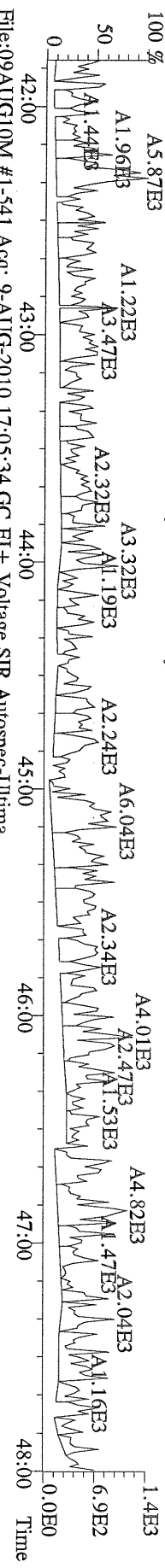
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 445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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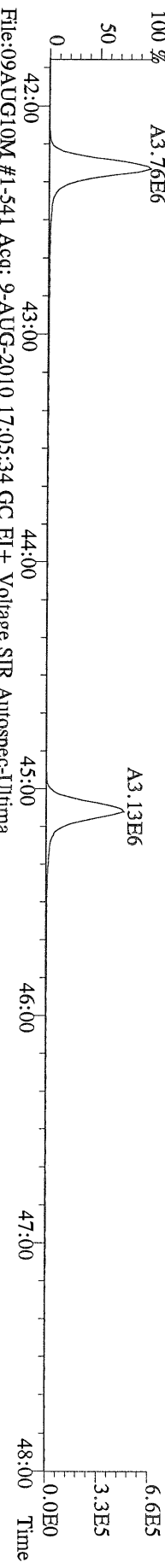
File:09AUG10M #1-541 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



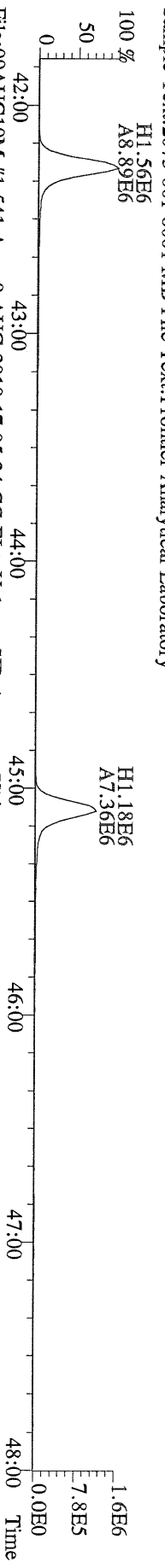
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409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



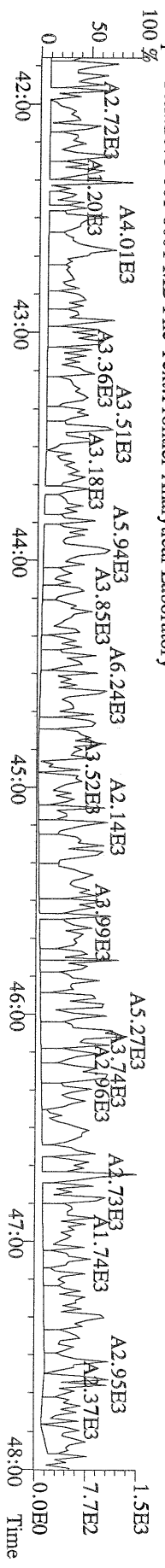
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417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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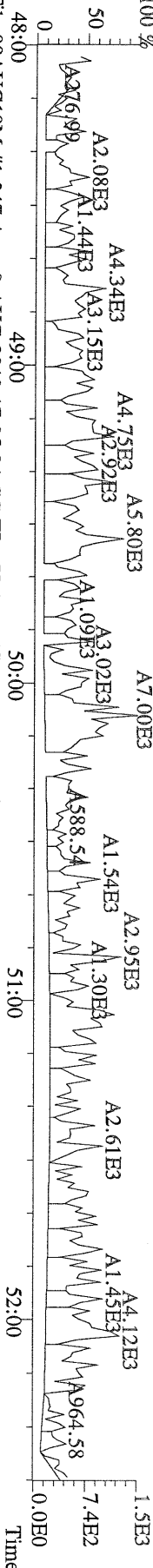
File:09AUG10M #1-541 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



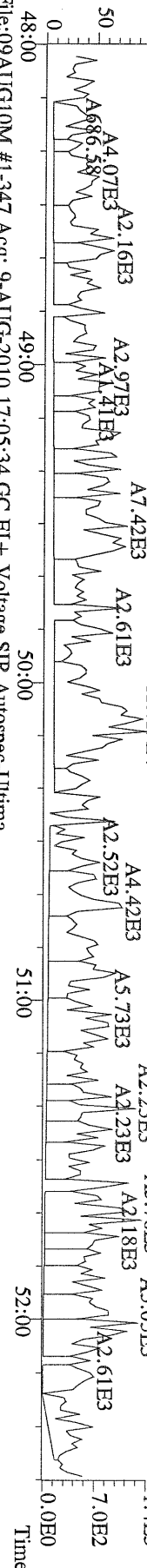
File:09AUG10M #1-541 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



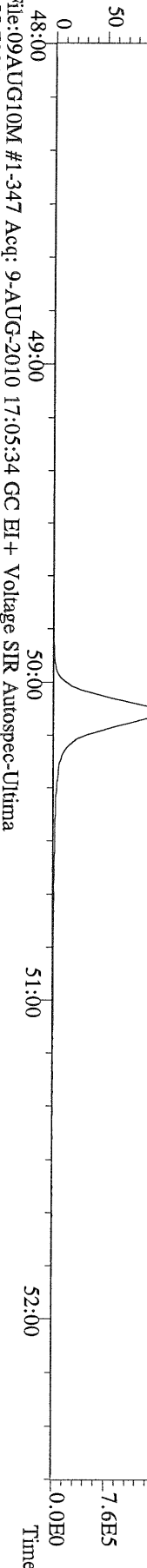
File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



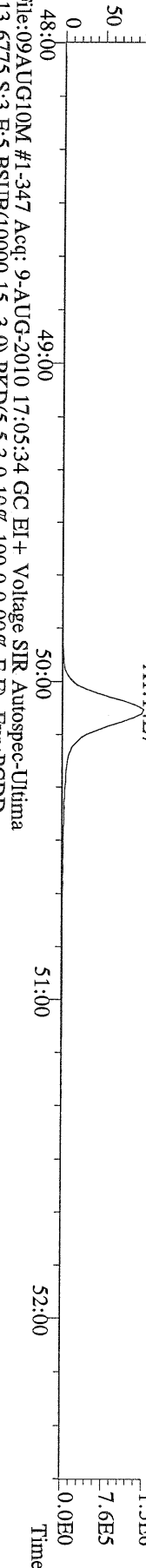
File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



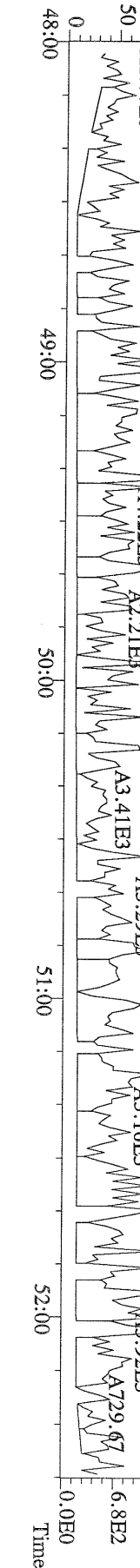
File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-MB File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 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:2075-001-0001-MB File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 17:05:34 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:2075-001-0001-MB File Text:Frontier Analytical Laboratory







## 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: 09AUG10M      Sam:2

Ext. Date: 8/6/10      Shift: Day      Analysis Date: 9-AUG-10      16:10:06

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	92.3	20.0 - 175
13C-1,2,3,7,8-PeCDD	100	88.7	21.0 - 227
13C-1,2,3,4,7,8-HxCDD	100	96.5	21.0 - 193
13C-1,2,3,6,7,8-HxCDD	100	90.6	25.0 - 163
13C-1,2,3,4,6,7,8-HpCDD	100	79.4	26.0 - 166
13C-OCDD	200	108	26.0 - 397
13C-2,3,7,8-TCDF	100	92.9	22.0 - 152
13C-1,2,3,7,8-PeCDF	100	85.2	21.0 - 192
13C-2,3,4,7,8-PeCDF	100	89.0	13.0 - 328
13C-1,2,3,4,7,8-HxCDF	100	111	19.0 - 202
13C-1,2,3,6,7,8-HxCDF	100	109	21.0 - 159
13C-2,3,4,6,7,8-HxCDF	100	103	22.0 - 176
13C-1,2,3,7,8,9-HxCDF	100	102	17.0 - 205
13C-1,2,3,4,6,7,8-HpCDF	100	82.6	21.0 - 158
13C-1,2,3,4,7,8,9-HpCDF	100	89.5	20.0 - 186
13C-OCDF	200	131	26.0 - 397
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	34.4	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: 

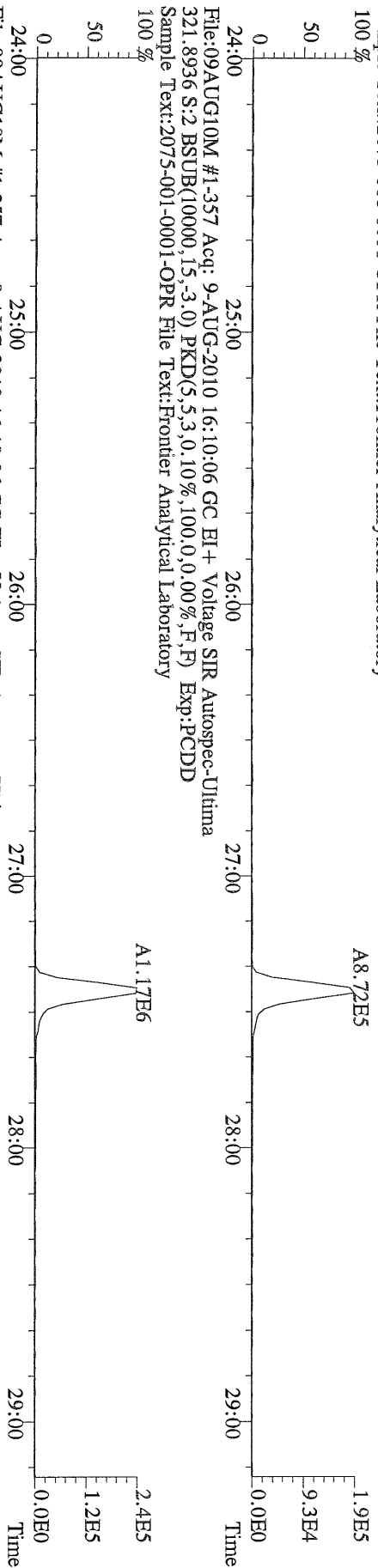
Date: 8/10/10

FAL ID: 2075-001-0001-OPR      Filename: 09AUG10M      Sam:2      Acquired: 9-AUG-10 16:10:06      ICal: PCDDFAL3-5-12-10  
 Client ID: OPR      ConCal: ST080910M1      EndCal: ST080910M2  
 Results: 2075      GC Column: db5      Amount: 1.000      NATO 1989 Tox: 89.0      WHO 1998 Tox: 112      WHO 2005 Tox: 102

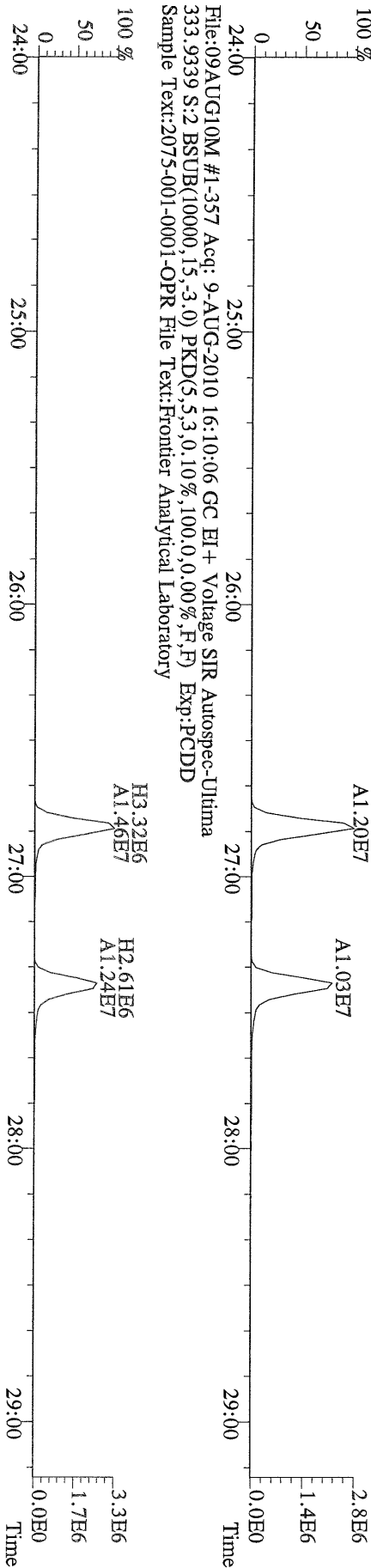
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	Rec
2,3,7,8-TCDD	2.04e+06	0.75 y	27:26	1.04	8.69		2.50	-	*	
1,2,3,7,8-PeCDD	9.06e+06	1.59 y	33:15	1.05	45.5		2.50	-	*	
1,2,3,4,7,8-HxCDD	6.49e+06	1.38 y	38:36	1.30	42.4		2.50	-	*	
1,2,3,6,7,8-HxCDD	6.53e+06	1.38 y	38:46	1.28	43.9		2.50	-	*	
1,2,3,7,8,9-HxCDD	6.67e+06	1.39 y	39:13	1.25	45.6		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	6.33e+06	0.98 y	44:11	1.35	49.5		2.50	-	*	
OCDD	5.80e+06	1.02 y	49:44	1.25	105		2.50	-	*	
2,3,7,8-TCDF	4.80e+06	0.66 y	26:40	1.62	8.87		2.50	-	*	
1,2,3,7,8-PeCDF	1.20e+07	1.45 y	31:30	0.92	45.8		2.50	-	*	
2,3,4,7,8-PeCDF	1.18e+07	1.42 y	32:50	0.94	45.2		2.50	-	*	
1,2,3,4,7,8-HxCDF	9.70e+06	1.23 y	37:13	0.93	42.0		2.50	-	*	
1,2,3,6,7,8-HxCDF	1.07e+07	1.26 y	37:24	0.84	42.1		2.50	-	*	
2,3,4,6,7,8-HxCDF	9.24e+06	1.20 y	38:21	0.90	42.7		2.50	-	*	
1,2,3,7,8,9-HxCDF	8.38e+06	1.24 y	39:47	0.98	43.5		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	7.16e+06	1.04 y	42:17	1.38	44.3		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	6.75e+06	1.03 y	45:07	1.62	44.1		2.50	-	*	
OCDF	6.34e+06	0.87 y	50:08	0.74	85.2		2.50	-	*	
13C-2,3,7,8-TCDD	2.27e+07	0.83 y	27:24	0.93	92.3					92.3
13C-1,2,3,7,8-PeCDD	1.90e+07	1.77 y	33:13	0.81	88.7					88.7
13C-1,2,3,4,7,8-HxCDD	1.18e+07	1.20 y	38:35	0.95	96.5					96.5
13C-1,2,3,6,7,8-HxCDD	1.17e+07	1.20 y	38:45	1.00	90.6					90.6
13C-1,2,3,4,6,7,8-HpCDD	9.45e+06	0.99 y	44:10	0.92	79.4					79.4
13C-OCDD	8.85e+06	0.87 y	49:44	0.63	108					54.2
13C-2,3,7,8-TCDF	3.34e+07	0.86 y	26:39	0.87	92.9					92.9
13C-1,2,3,7,8-PeCDF	2.85e+07	1.67 y	31:29	0.81	85.2					85.2
13C-2,3,4,7,8-PeCDF	2.77e+07	1.68 y	32:48	0.75	89.0					89.0
13C-1,2,3,4,7,8-HxCDF	2.48e+07	0.52 y	37:12	1.74	111					111
13C-1,2,3,6,7,8-HxCDF	3.04e+07	0.52 y	37:23	2.17	109					109
13C-2,3,4,6,7,8-HxCDF	2.42e+07	0.51 y	38:19	1.82	103					103
13C-1,2,3,7,8,9-HxCDF	1.96e+07	0.53 y	39:46	1.49	102					102
13C-1,2,3,4,6,7,8-HpCDF	1.17e+07	0.42 y	42:16	1.10	82.6					82.6
13C-1,2,3,4,7,8,9-HpCDF	9.42e+06	0.42 y	45:05	0.81	89.5					89.5
13C-OCDF	2.01e+07	1.00 y	50:06	1.19	131					65.6
37Cl-2,3,7,8-TCDD	8.49e+06		27:25	0.93	34.4					86.0
13C-1,2,3,4-TCDD	2.65e+07	0.82 y	26:49	-	78.2					
13C-1,2,3,4-TCDF	4.15e+07	0.87 y	25:33	-	77.7					
13C-1,2,3,7,8,9-HxCDD	1.29e+07	1.20 y	39:11	-	59.9					
Total Tetra-Dioxins	2.24e+06		22:52	1.04	9.51		2.50	-	*	25
Total Penta-Dioxins	9.18e+06		33:15	1.05	46.2		2.50	-	*	8
Total Hexa-Dioxins	1.98e+07		38:36	1.27	133		2.50	-	*	14
Total Hepta-Dioxins	6.73e+06		41:51	1.35	52.6		2.50	-	*	36
Total Tetra-Furans	5.04e+06		23:01	1.62	9.31		2.50	-	*	19
1st Fn. Tot Penta-Furans	1.95e+05		23:02	0.93	0.746		2.50	-	*	32 PeCDF
Total Penta-Furans	2.43e+07		30:14	0.93	93.0		2.50	-	*	9 93.7
Total Hexa-Furans	3.82e+07		35:33	0.90	171		2.50	-	*	14
Total Hepta-Furans	1.41e+07		42:17	1.48	89.3		2.50	-	*	16

Analyst:       Date: 8/10/10

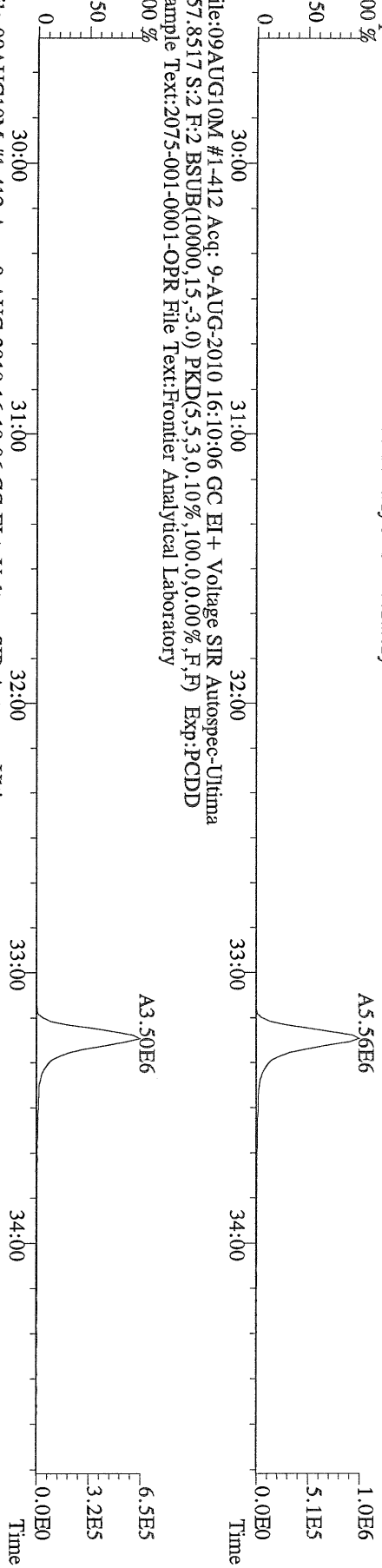
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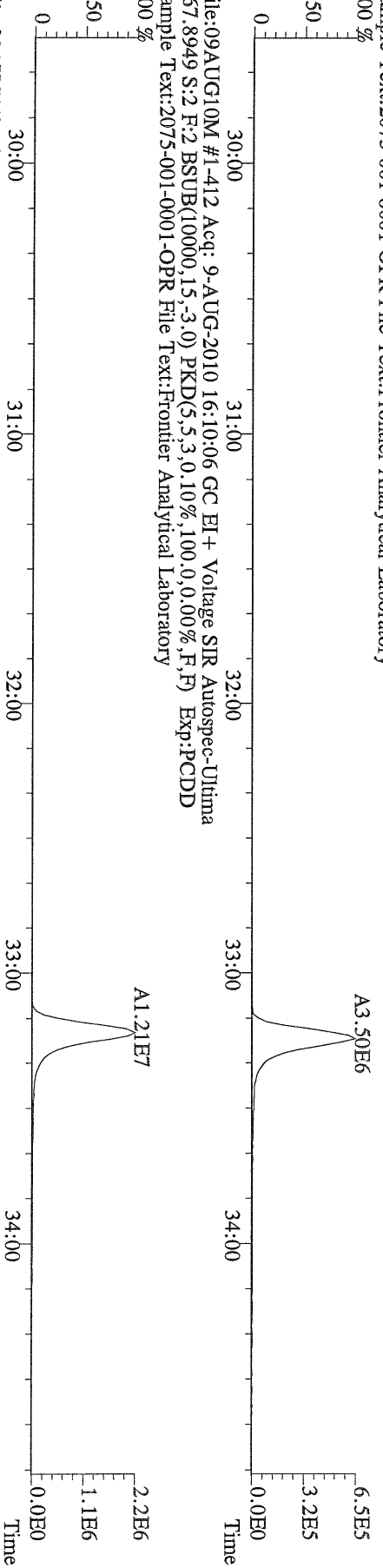
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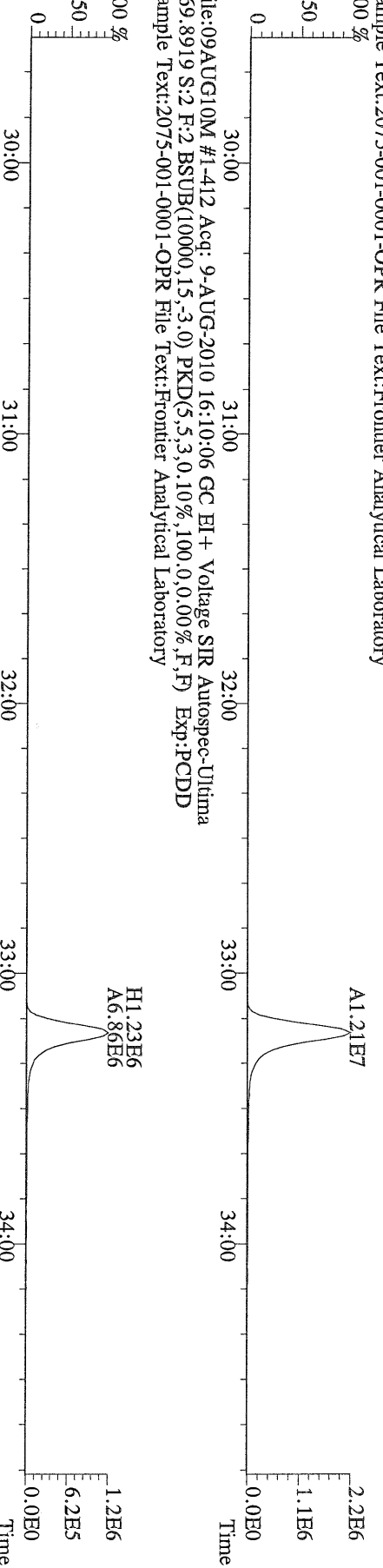
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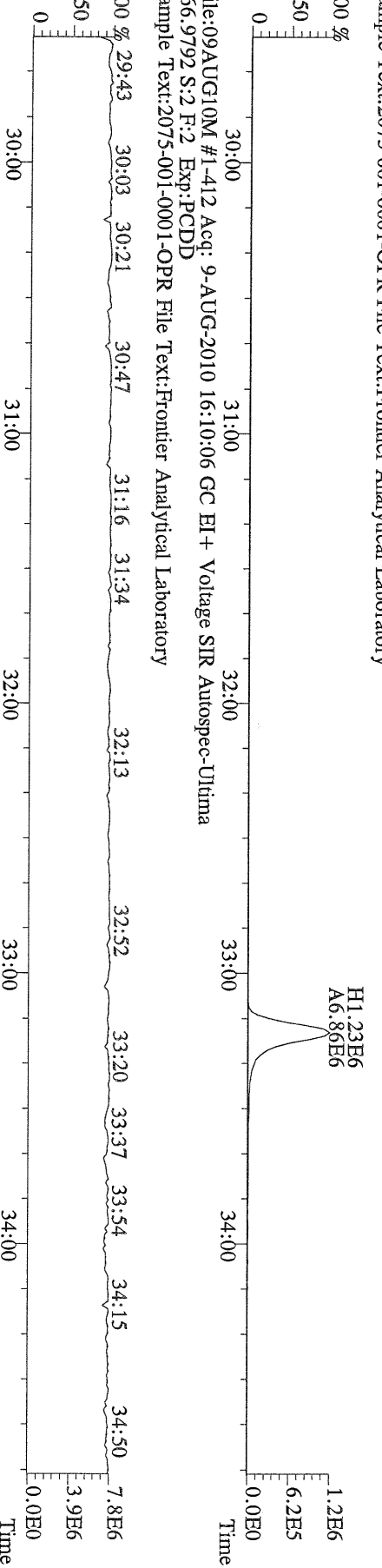
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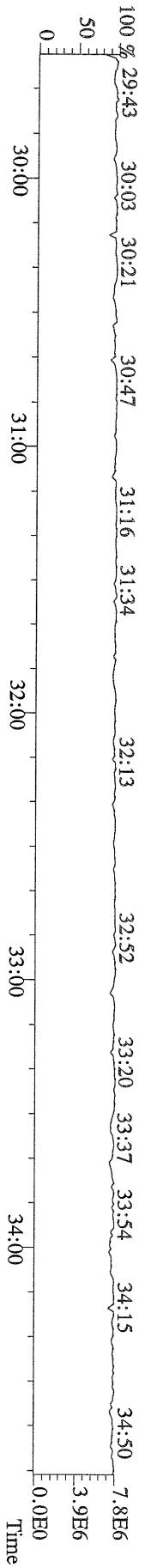
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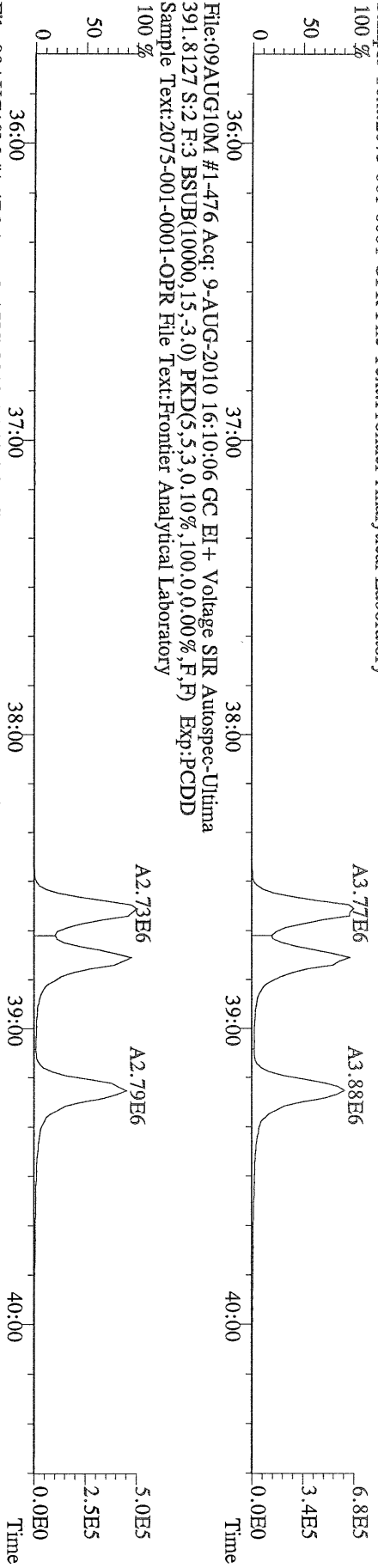
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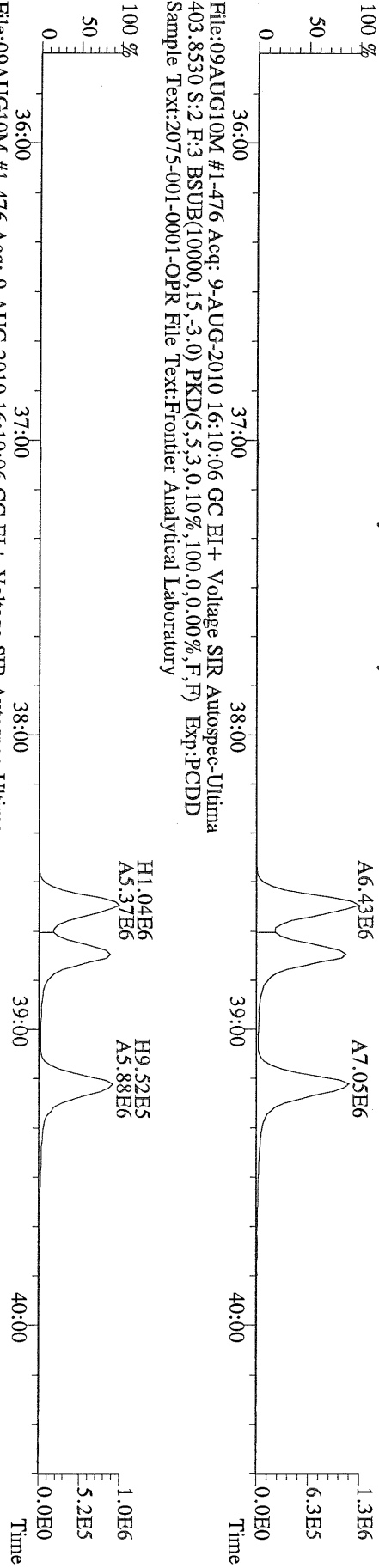
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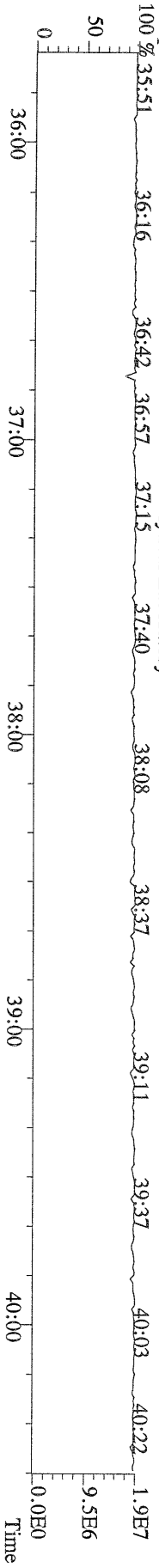
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100 %



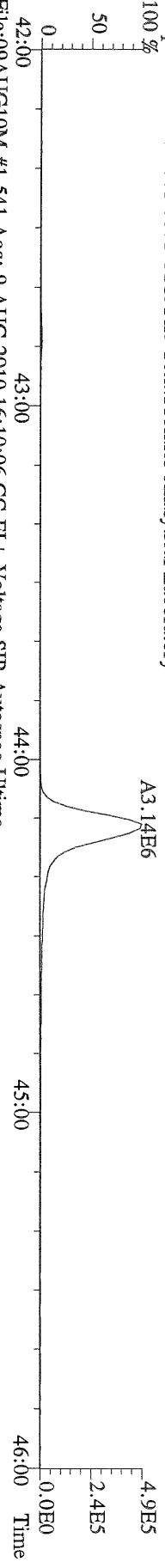
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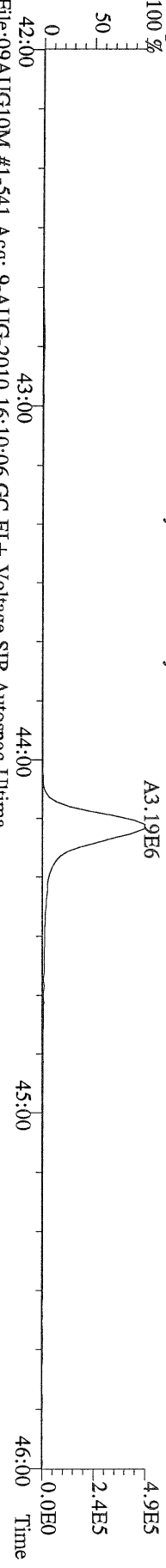
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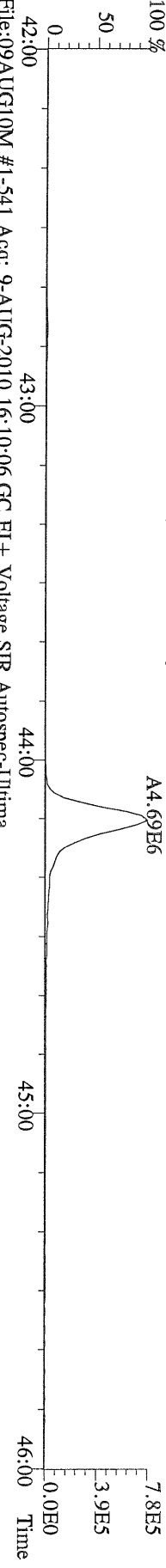
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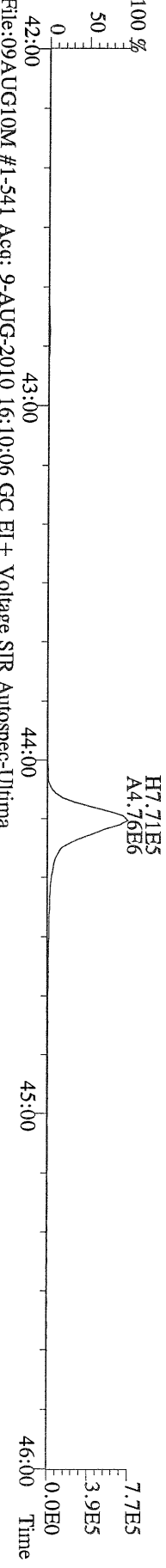
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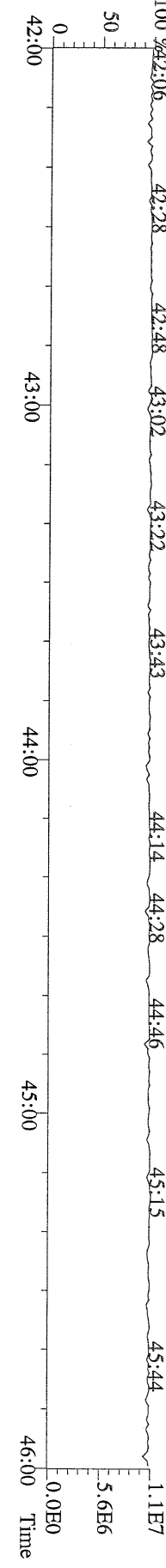
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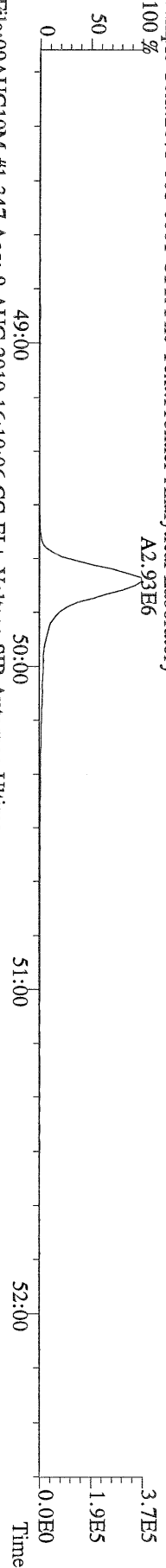
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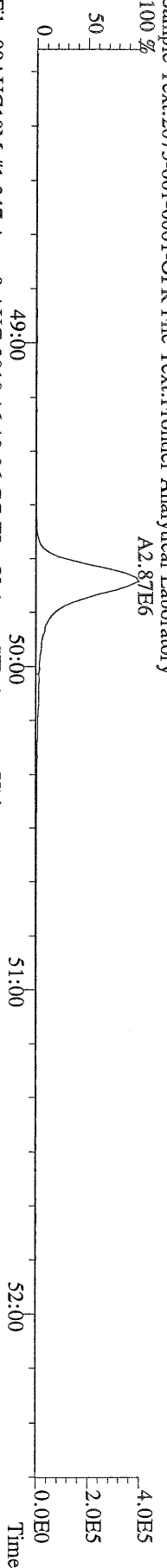
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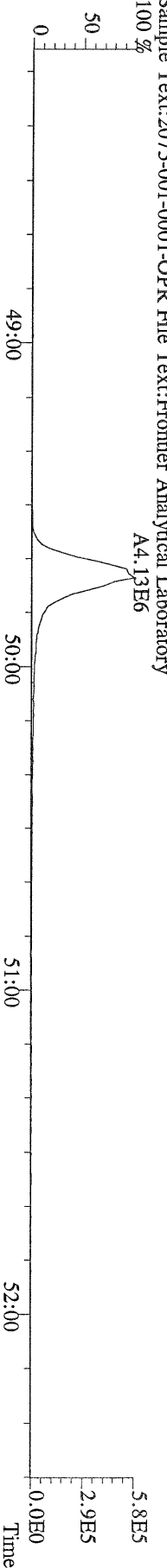
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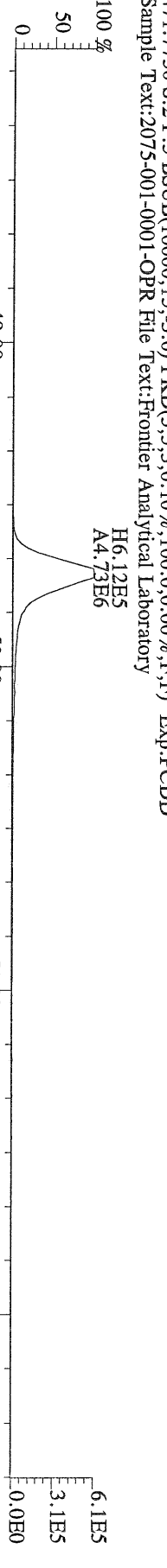
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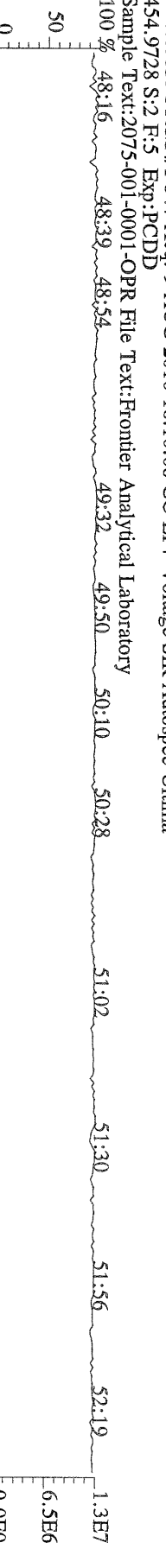
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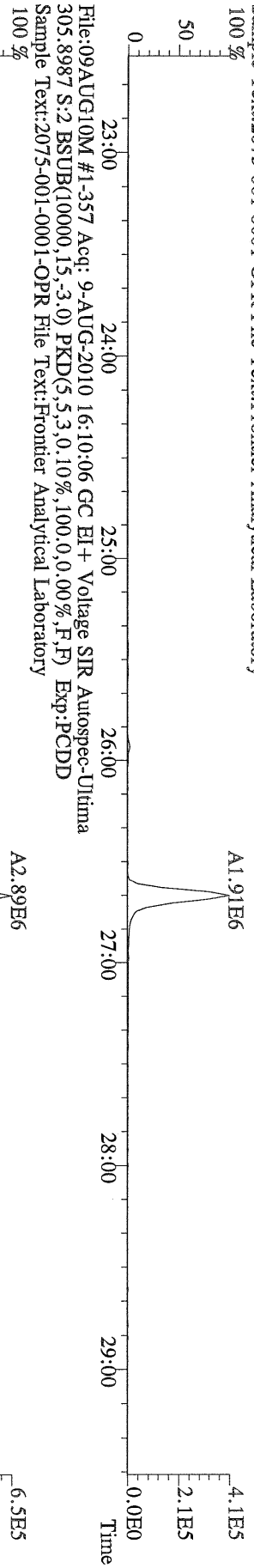


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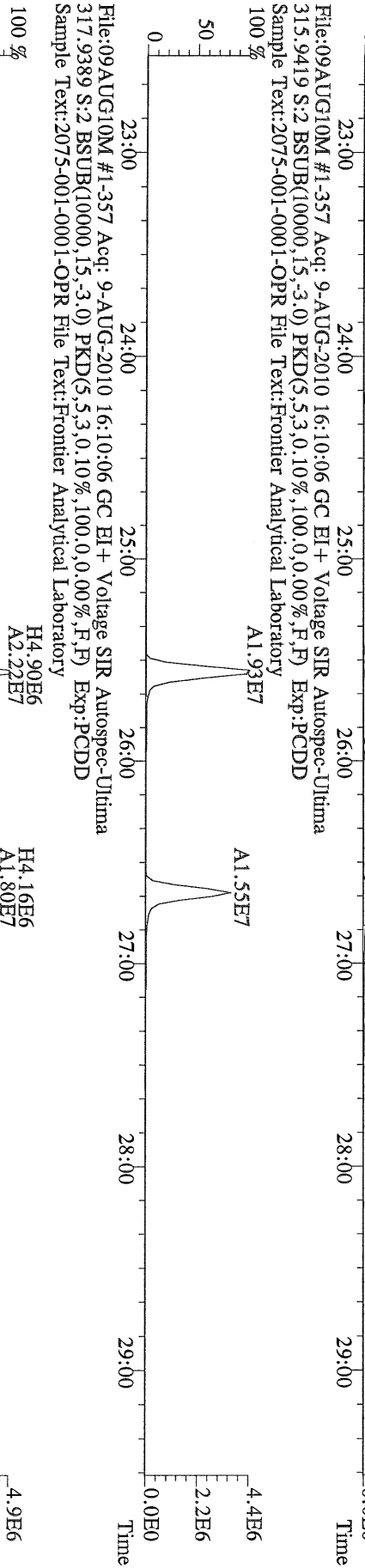




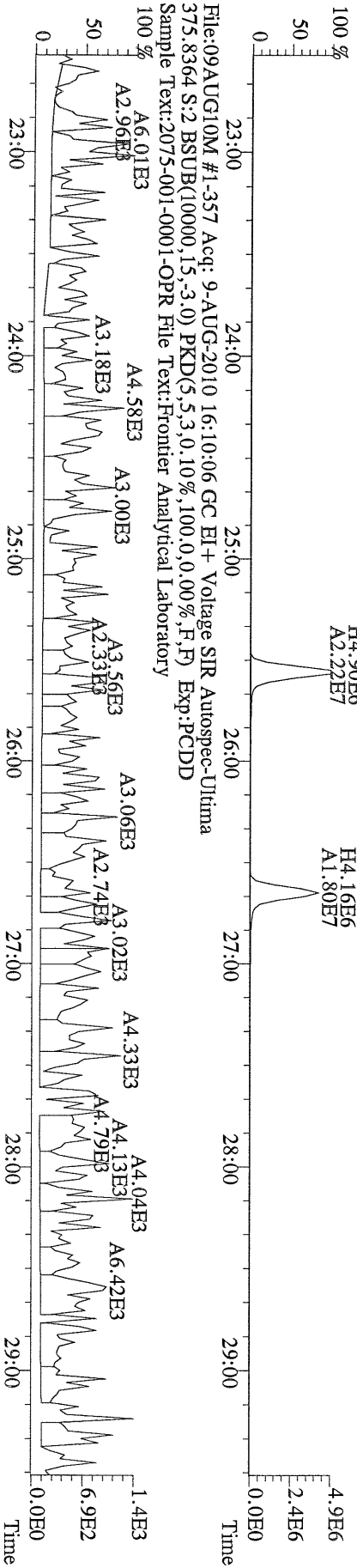
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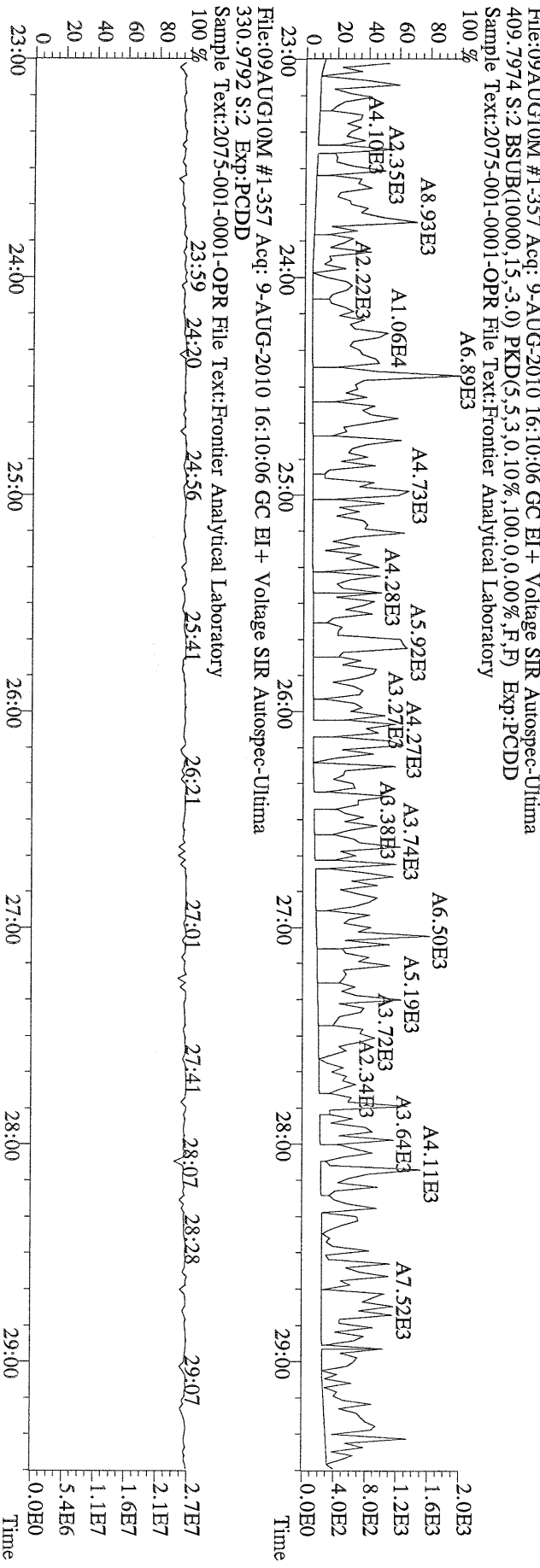
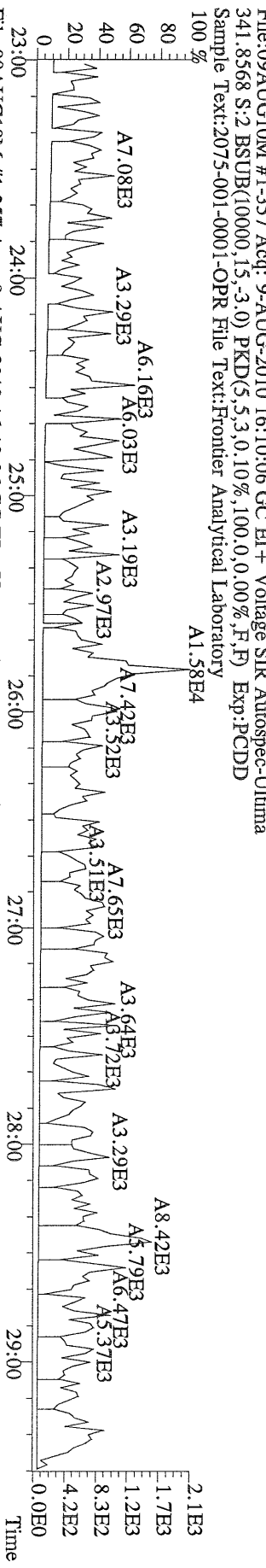
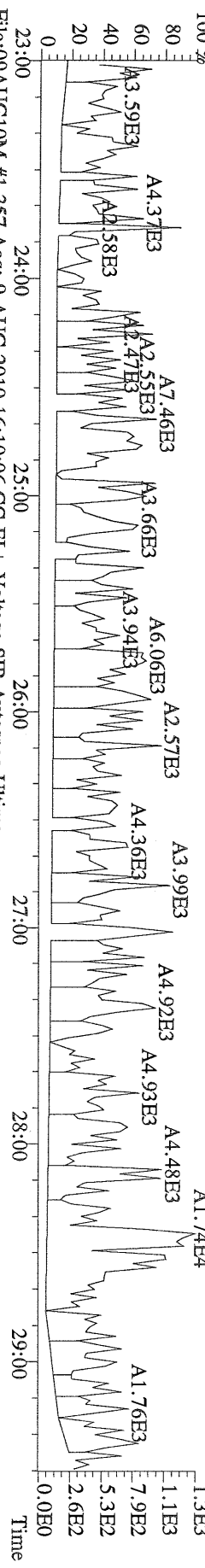
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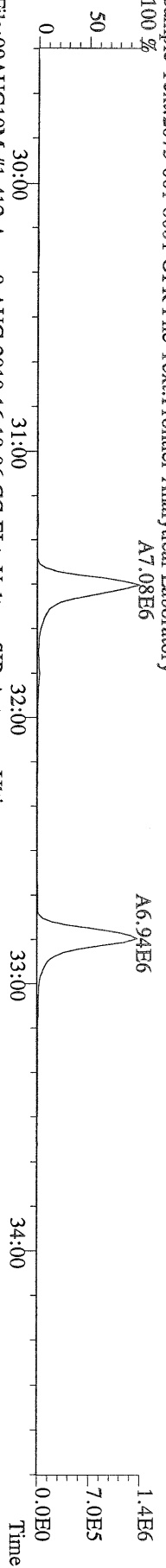
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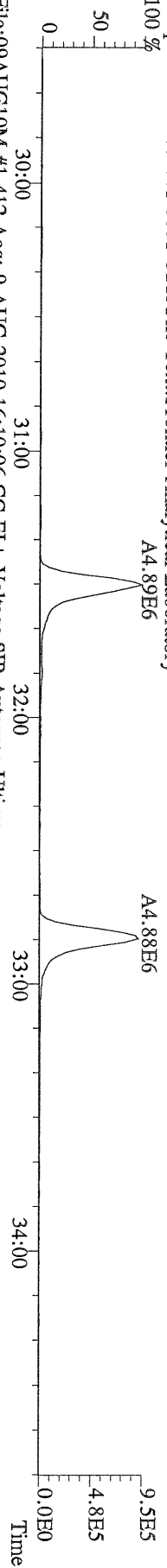
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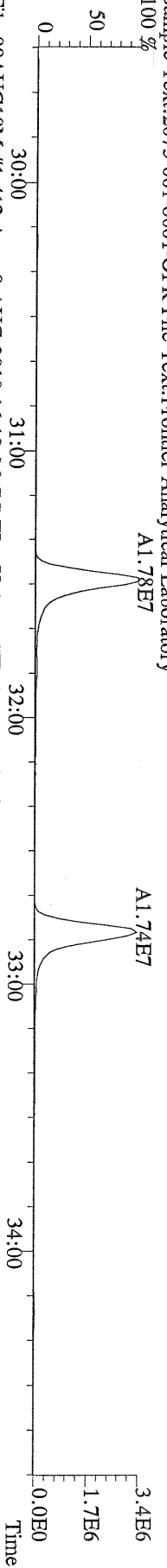
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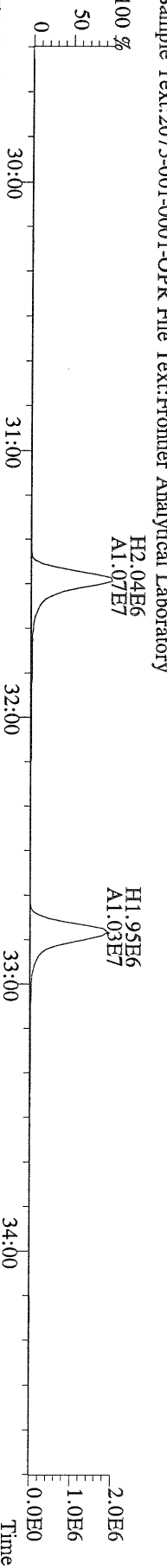
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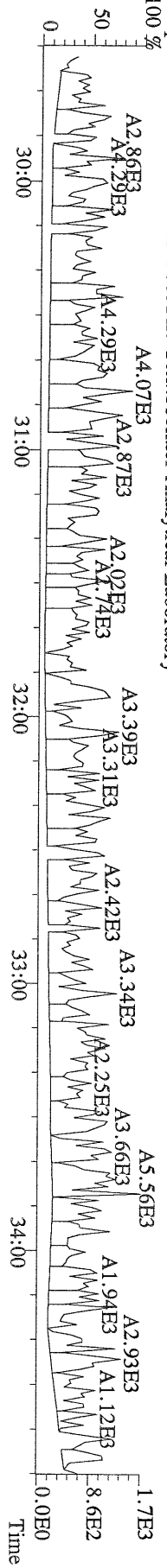
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 351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



File:09AUG10M #1-412 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
 353.8970 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:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



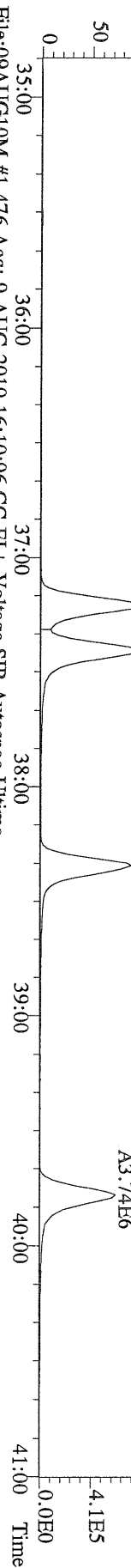
File:09AUG10M #1-412 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



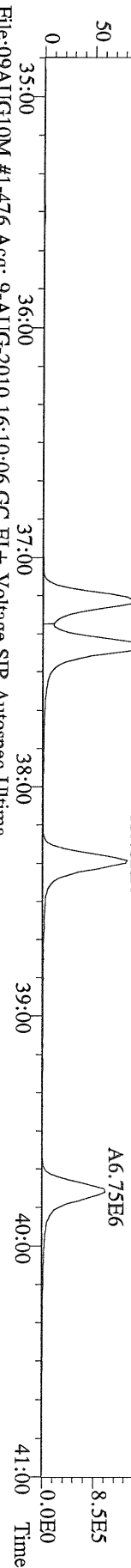
File:09AUG10M #1-476 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Utima  
375.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



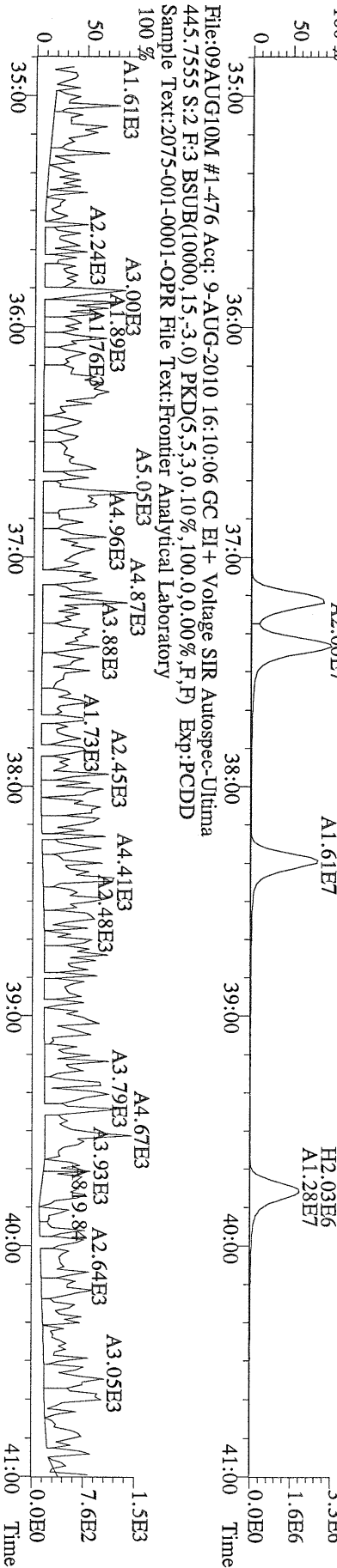
File:09AUG10M #1-476 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Utima  
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



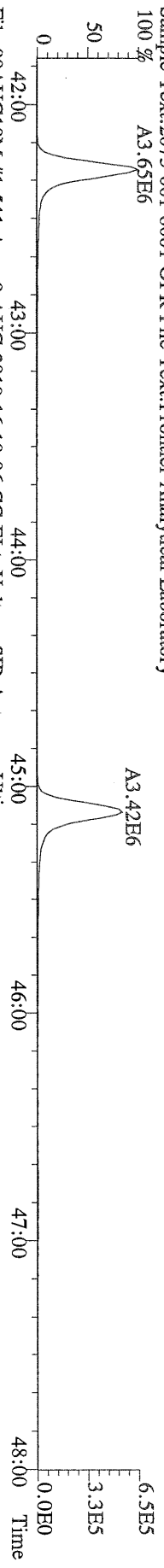
File:09AUG10M #1-476 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Utima  
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



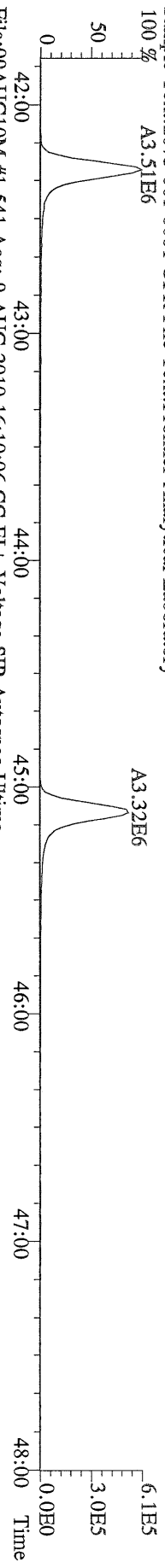
File:09AUG10M #1-476 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Utima  
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



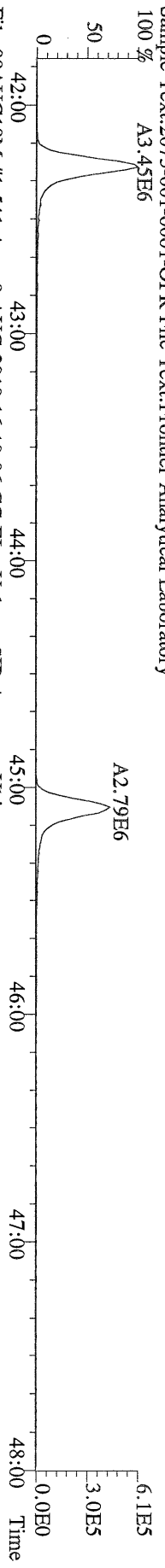
File:09AUG10M #1-541 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



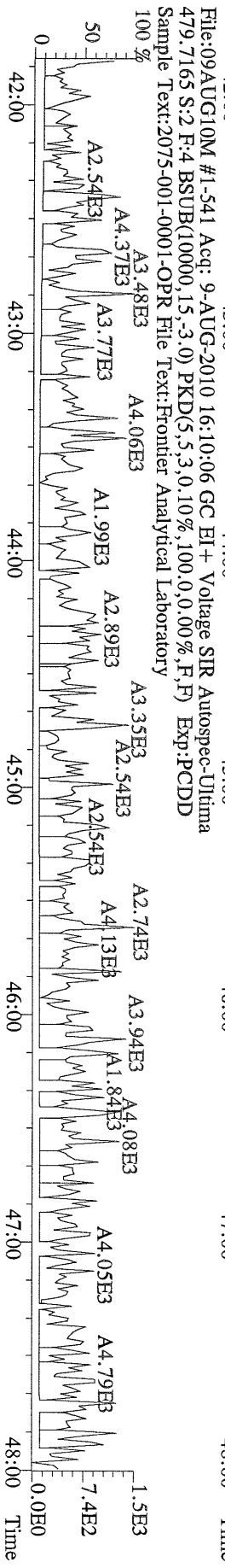
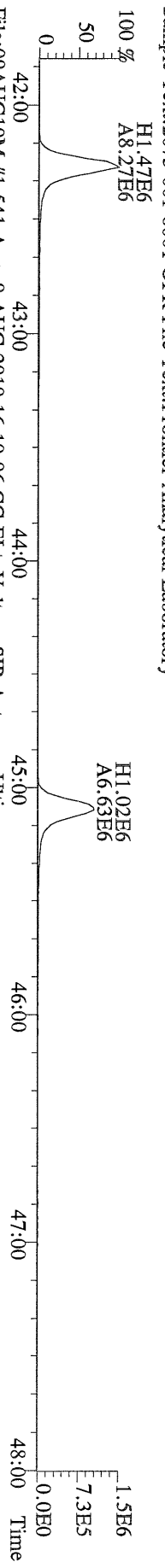
File:09AUG10M #1-541 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



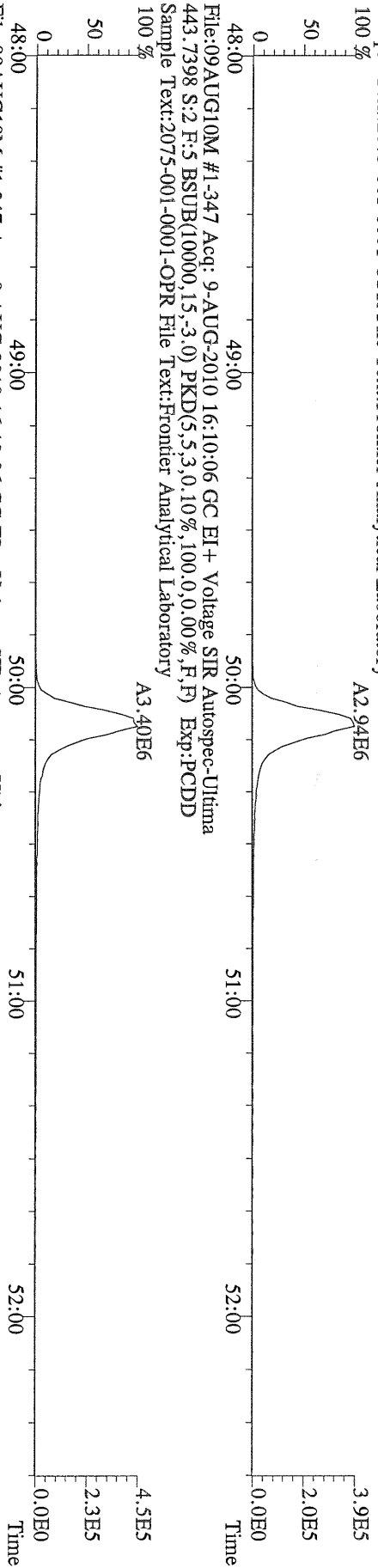
File:09AUG10M #1-541 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



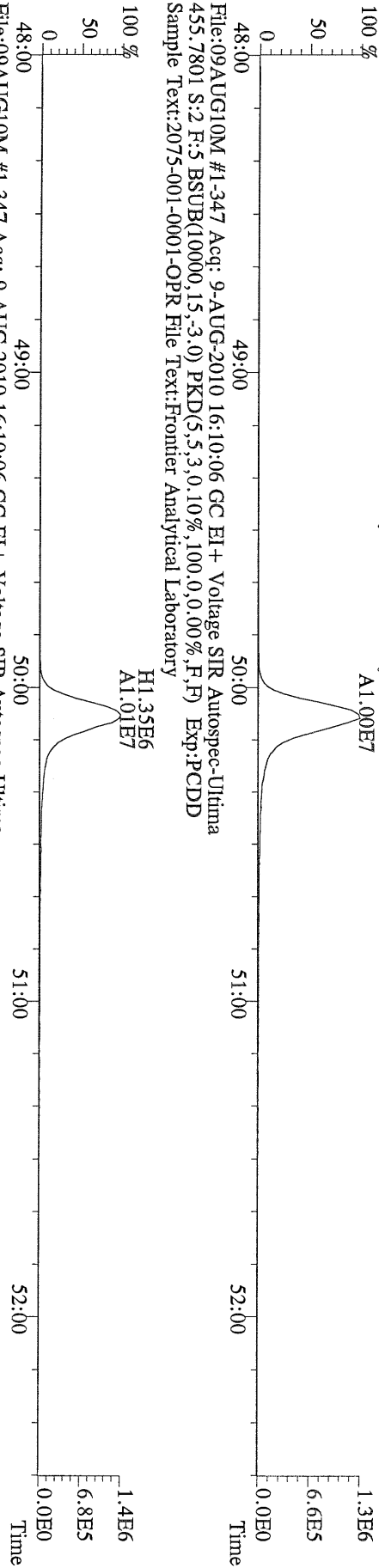
File:09AUG10M #1-541 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



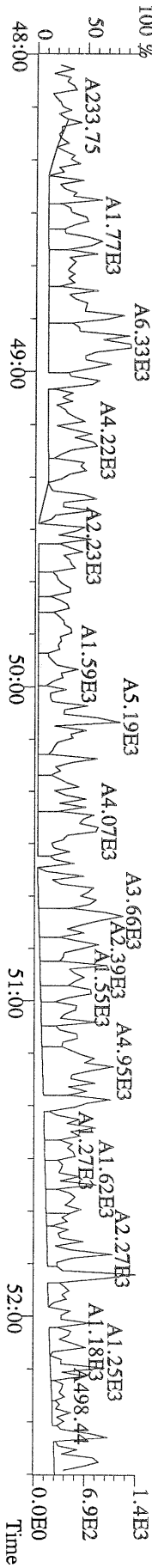
File:09AUG10M #1-347 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 16:10:06 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:2075-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 6276-001-0001-SA      Filename: 09AUG10M      Sam:5      Acquired: 9-AUG-10 18:56:15      ICal: PCDDFAL3-5-12-10  
 Client ID: PSB11-0-0.5-073010      ConCal: ST080910M1      EndCal: ST080910M2  
 Results: 6276      GC Column: DB5      Amount: 2.990      NATO 1989 Tox: 50.8

WHO 1998 Tox: 50.1      WHO 2005 Tox: 50.3  
 DL 59.5  
 6/19/10

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	4.63e+04	0.66 y	27:26	1.04	1.09	J	2.50	-	-	*		
1,2,3,7,8-PeCDD	1.50e+05	1.35 y	33:16	1.05	4.23	J	2.50	-	-	*		
1,2,3,4,7,8-HxCDD	2.17e+05	1.21 y	38:39	1.30	6.99	J	2.50	-	-	*		
1,2,3,6,7,8-HxCDD	1.60e+06	1.39 y	38:49	1.28	57.4		2.50	-	-	*		
1,2,3,7,8,9-HxCDD	6.89e+05	1.33 y	39:16	1.25	24.1		2.50	-	-	*		
1,2,3,4,6,7,8-HpCDD	7.22e+07	0.98 y	44:15	1.35	2490		2.50	-	-	*		
OCDD	*	* n	NotFnd	1.25	*	*	2.50	-	-	*		
2,3,7,8-TCDF	4.20e+04	0.87 y	26:43	1.62	0.432	J	2.50	-	-	*		
1,2,3,7,8-PeCDF	2.82e+04	1.36 y	31:31	0.92	0.614	J	2.50	-	-	*		
2,3,4,7,8-PeCDF	1.07e+05	1.56 y	32:52	0.94	2.29	J	2.50	-	-	*		
1,2,3,4,7,8-HxCDF	5.69e+05	1.28 y	37:15	0.93	13.7		2.50	-	-	*		
1,2,3,6,7,8-HxCDF	2.57e+05	1.25 y	37:28	0.84	5.98	J	2.50	-	-	*		
2,3,4,6,7,8-HxCDF	3.60e+05	1.23 y	38:23	0.90	9.01		2.50	-	-	*		
1,2,3,7,8,9-HxCDF	4.75e+04	1.23 y	39:53	0.98	1.26	J	2.50	-	-	*		
1,2,3,4,6,7,8-HpCDF	2.13e+07	1.03 y	42:21	1.38	636		2.50	-	-	*		
1,2,3,4,7,8,9-HpCDF	4.63e+05	1.03 y	45:10	1.62	14.5		2.50	-	-	*		
OCDF	5.51e+07	0.86 y	50:14	0.74	3070		2.50	-	-	*		
13C-2,3,7,8-TCDD	2.75e+07	0.80 y	27:25	0.93	652						97.5	
13C-1,2,3,7,8-PeCDD	2.27e+07	1.77 y	33:15	0.81	617						92.2	
13C-1,2,3,4,7,8-HxCDD	1.60e+07	1.21 y	38:37	0.95	673						101	
13C-1,2,3,6,7,8-HxCDD	1.46e+07	1.22 y	38:47	1.00	583						87.1	
13C-1,2,3,4,6,7,8-HpCDD	1.43e+07	1.01 y	44:14	0.92	618						92.4	
13C-OCDD	*	* n	NotFnd	0.63	*	*				*	66.7	
13C-2,3,7,8-TCDF	4.03e+07	0.88 y	26:40	0.87	663						99.1	
13C-1,2,3,7,8-PeCDF	3.35e+07	1.68 y	31:30	0.81	593						88.7	
13C-2,3,4,7,8-PeCDF	3.30e+07	1.70 y	32:50	0.75	628						93.9	
13C-1,2,3,4,7,8-HxCDF	2.98e+07	0.51 y	37:14	1.74	683						102	
13C-1,2,3,6,7,8-HxCDF	3.44e+07	0.51 y	37:26	2.17	630						94.2	
13C-2,3,4,6,7,8-HxCDF	2.98e+07	0.51 y	38:22	1.82	653						97.7	
13C-1,2,3,7,8,9-HxCDF	2.57e+07	0.52 y	39:48	1.49	689						103	
13C-1,2,3,4,6,7,8-HpCDF	1.62e+07	0.42 y	42:20	1.10	588						87.9	
13C-1,2,3,4,7,8,9-HpCDF	1.31e+07	0.41 y	45:09	0.81	640						95.7	
13C-OCDF	3.24e+07	1.00 y	50:12	1.19	1090						81.3	
37Cl-2,3,7,8-TCDD	1.03e+07		27:26	0.93	243						90.9	
13C-1,2,3,4-TCDD	3.05e+07	0.83 y	26:50	-	30.0							
13C-1,2,3,4-TCDF	4.68e+07	0.88 y	25:34	-	29.4							
13C-1,2,3,7,8,9-HxCDD	1.68e+07	1.21 y	39:14	-	26.1							
Total Tetra-Dioxins	2.39e+05		24:26	1.04	5.61		2.50	-	-	*		4
Total Penta-Dioxins	1.15e+06		30:17	1.05	32.4		2.50	-	-	*		10
Total Hexa-Dioxins	1.03e+07		36:10	1.27	356		2.50	-	-	*		7
Total Hepta-Dioxins	1.49e+08		42:52	1.35	5150		2.50	-	-	*		2
Total Tetra-Furans	1.08e+06		23:26	1.62	11.0		2.50	-	-	*		12
1st Fn. Tot Penta-Furans	1.48e+06		28:29	0.93	32.1		2.50	-	-	*	PeCDF	1
Total Penta-Furans	1.03e+06		30:06	0.93	22.2		2.50	-	-	*	54.3	7
Total Hexa-Furans	1.66e+07		35:17	0.90	409		2.50	-	-	*		8
Total Hepta-Furans	7.35e+07		42:21	1.48	2240		2.50	-	-	*		4

Analyst: 

Date: 8/10/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 12 File: 09AUG10M S: 5 I: 1 F: 1  
Acquired: 9-AUG-10 18:56:15

Total Concentration: 5.61

Unnamed Concentration: 4.524

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:26	3.80e+04	5.00e+04	0.76 y	8.80e+04	2.07	
24:44	2.11e+04	2.92e+04	0.72 y	5.03e+04	1.18	
25:59	2.24e+04	3.20e+04	0.70 y	5.44e+04	1.28	
27:26	1.84e+04	2.79e+04	0.66 y	4.63e+04	1.09	2,3,7,8-TCDD



Totals class: Total Penta-Dioxins

Entry #: 39

Run: 12 File: 09AUG10M  
Acquired: 9-AUG-10 18:56:15

S: 5 I: 1 F: 2

Total Concentration: 32.4

Unnamed Concentration: 28.137

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:17	2.08e+05	1.35e+05	1.54 y	3.43e+05	9.66	
30:53	3.33e+04	2.11e+04	1.58 y	5.45e+04	1.53	
31:30	5.79e+04	3.88e+04	1.49 y	9.67e+04	2.72	
31:44	1.27e+05	7.96e+04	1.59 y	2.06e+05	5.81	
31:53	6.40e+04	4.60e+04	1.39 y	1.10e+05	3.10	
32:12	5.12e+04	3.29e+04	1.56 y	8.41e+04	2.37	
32:39	1.75e+04	1.20e+04	1.45 y	2.95e+04	0.831	
33:16	8.64e+04	6.39e+04	1.35 y	1.50e+05	4.23	1,2,3,7,8-PeCDD
33:20	2.75e+04	1.65e+04	1.67 y	4.40e+04	1.24	
33:49	1.91e+04	1.21e+04	1.58 y	3.11e+04	0.877	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 12 File: 09AUG10M  
Acquired: 9-AUG-10 18:56:15

S: 5 I: 1 F: 3

Total Concentration: 356

Unnamed Concentration: 267.289

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:10	1.68e+06	1.23e+06	1.37 y	2.91e+06	100	
37:06	2.02e+05	1.48e+05	1.36 y	3.50e+05	12.0	
37:32	2.55e+06	1.88e+06	1.36 y	4.42e+06	152	
38:39	1.19e+05	9.83e+04	1.21 y	2.17e+05	6.99	1,2,3,4,7,8-HxCDD
38:49	9.29e+05	6.68e+05	1.39 y	1.60e+06	57.4	1,2,3,6,7,8-HxCDD
39:06	5.68e+04	4.32e+04	1.31 y	1.00e+05	3.43	
39:16	3.94e+05	2.95e+05	1.33 y	6.89e+05	24.1	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 12

File: 09AUG10M

S: 5 I: 1 F: 4

Acquired: 9-AUG-10 18:56:15

Total Concentration: 5150

Unnamed Concentration: 2655.747

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:52	3.83e+07	3.87e+07	0.99 y	7.69e+07	2660	
44:15	3.58e+07	3.64e+07	0.98 y	7.22e+07	2490	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 12 File: 09AUG10M S: 5 I: 1 F: 1  
Acquired: 9-AUG-10 18:56:15

Total Concentration: 11.0

Unnamed Concentration: 10.609

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:26	2.24e+04	2.88e+04	0.78 y	5.12e+04	0.526	
23:51	1.18e+05	1.79e+05	0.66 y	2.98e+05	3.06	
24:14	3.59e+04	4.45e+04	0.81 y	8.04e+04	0.825	
24:28	3.98e+04	5.19e+04	0.77 y	9.17e+04	0.942	
24:46	4.82e+04	7.00e+04	0.69 y	1.18e+05	1.21	
25:28	4.70e+04	6.97e+04	0.67 y	1.17e+05	1.20	
25:34	2.15e+04	2.62e+04	0.82 y	4.77e+04	0.490	
26:43	1.95e+04	2.25e+04	0.87 y	4.20e+04	0.432	2,3,7,8-TCDF
27:00	1.98e+04	2.49e+04	0.79 y	4.48e+04	0.459	
27:54	2.25e+04	2.89e+04	0.78 y	5.13e+04	0.527	
28:07	1.84e+04	2.52e+04	0.73 y	4.36e+04	0.448	
28:30	3.75e+04	5.23e+04	0.72 y	8.98e+04	0.922	

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

Run: 12      File: 09AUG10M      S: 5 I: 1 F: 1  
Acquired: 9-AUG-10 18:56:15

Total Concentration: 32.1      Unnamed Concentration: 32.081

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:29	9.13e+05	5.71e+05	1.60 y	1.48e+06	32.1	

Totals class: Total Penta-Furans

Entry #: 44

Run: 12 File: 09AUG10M  
Acquired: 9-AUG-10 18:56:15

S: 5 I: 1 F: 2

Total Concentration: 22.2

Unnamed Concentration: 19.328

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:06	3.14e+04	2.37e+04	1.33 y	5.51e+04	1.19	
30:16	2.96e+05	2.02e+05	1.47 y	4.98e+05	10.8	
30:59	1.13e+05	8.08e+04	1.40 y	1.94e+05	4.19	
31:31	1.62e+04	1.19e+04	1.36 y	2.82e+04	0.614	1,2,3,7,8-PeCDF
31:53	3.77e+04	2.81e+04	1.34 y	6.58e+04	1.42	
32:52	6.50e+04	4.18e+04	1.56 y	1.07e+05	2.29	2,3,4,7,8-PeCDF
32:54	4.73e+04	3.43e+04	1.38 y	8.15e+04	1.76	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 12 File: 09AUG10M S: 5 I: 1 F: 3  
Acquired: 9-AUG-10 18:56:15

Total Concentration: 409

Unnamed Concentration: 379.429

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:17	6.84e+05	5.59e+05	1.22 y	1.24e+06	30.7	
35:34	2.62e+06	2.10e+06	1.25 y	4.72e+06	117	
36:10	4.71e+04	3.97e+04	1.19 y	8.69e+04	2.15	
36:29	5.11e+06	4.19e+06	1.22 y	9.31e+06	230	
37:15	3.20e+05	2.50e+05	1.28 y	5.69e+05	13.7	1,2,3,4,7,8-HxCDF
37:28	1.43e+05	1.14e+05	1.25 y	2.57e+05	5.98	1,2,3,6,7,8-HxCDF
38:23	1.98e+05	1.62e+05	1.23 y	3.60e+05	9.01	2,3,4,6,7,8-HxCDF
39:53	2.62e+04	2.13e+04	1.23 y	4.75e+04	1.26	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 12 File: 09AUG10M  
Acquired: 9-AUG-10 18:56:15

S: 5 I: 1 F: 4

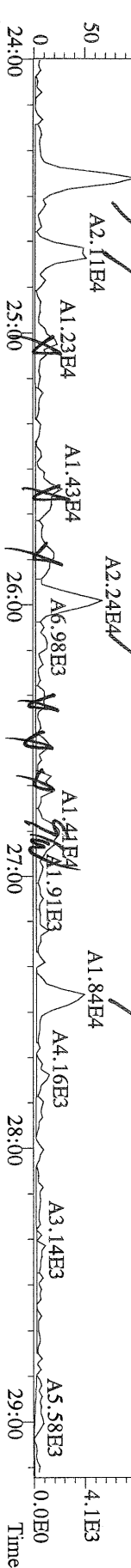
Total Concentration: 2240

Unnamed Concentration: 1588.741

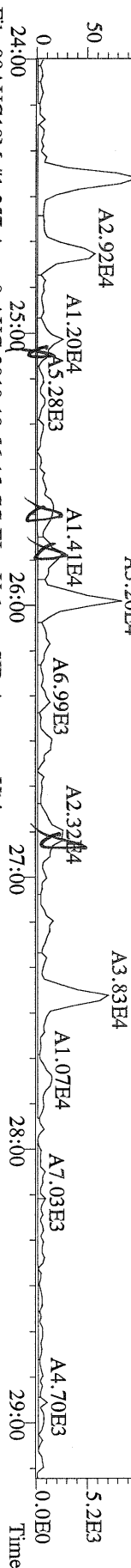
RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:21	1.08e+07	1.05e+07	1.03 y	2.13e+07	636	1,2,3,4,6,7,8-HpCDF
42:53	6.69e+04	5.80e+04	1.15 y	1.25e+05	3.83	
43:10	2.62e+07	2.54e+07	1.03 y	5.16e+07	1580	
45:10	2.35e+05	2.28e+05	1.03 y	4.63e+05	14.5	1,2,3,4,7,8,9-HpCDF



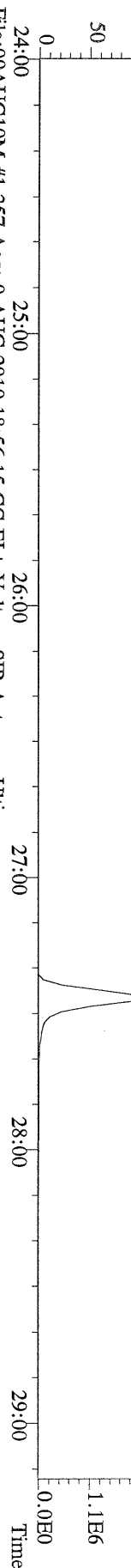
File:09AUG10M #1-357 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 319.8965 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



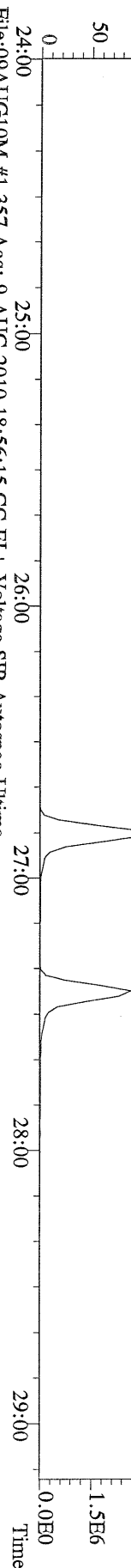
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 321.8936 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



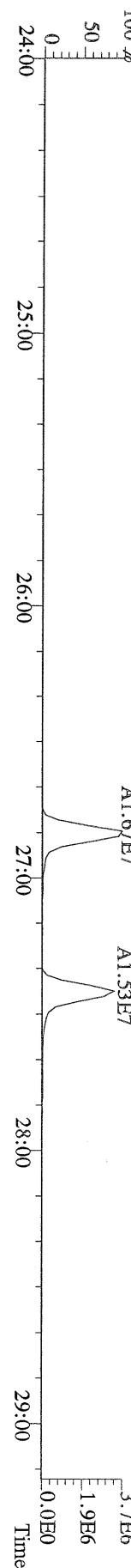
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 327.8847 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



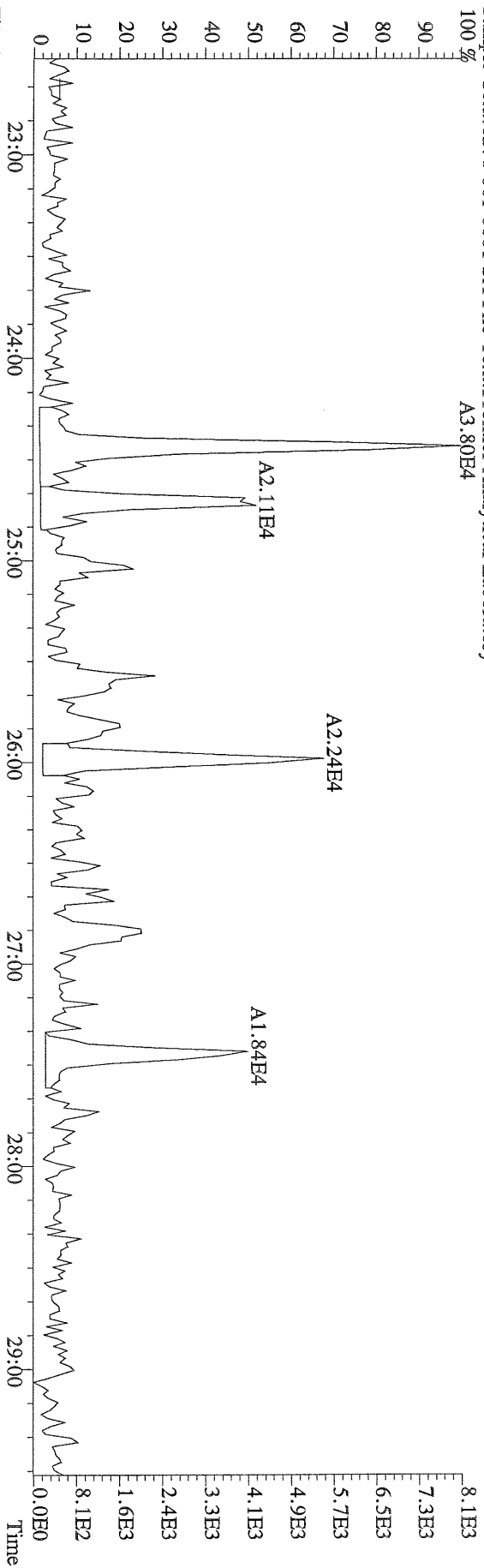
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 100 %



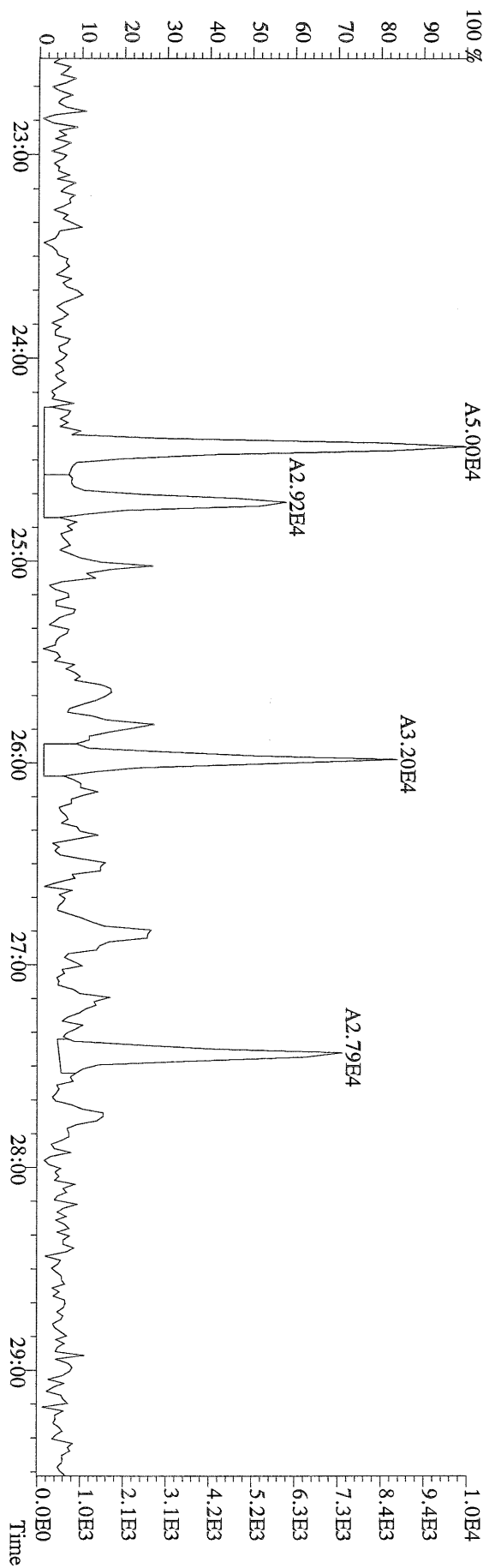
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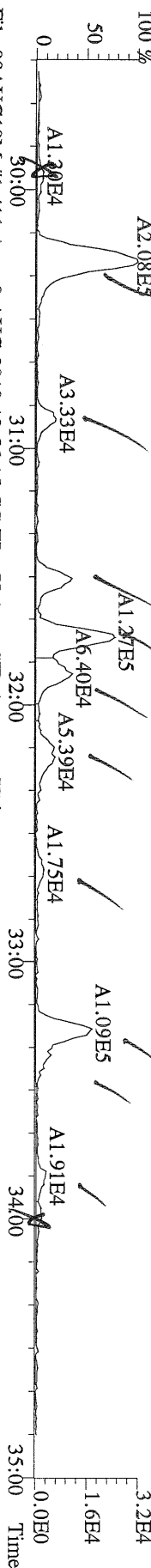
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319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



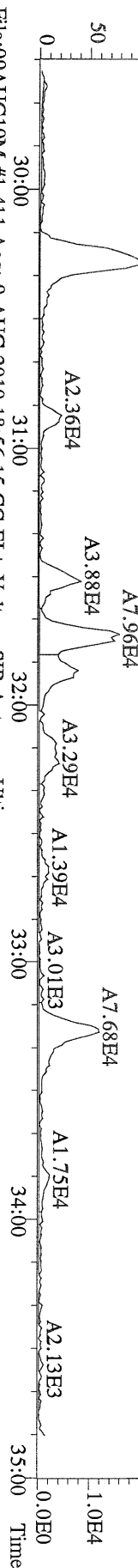
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321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



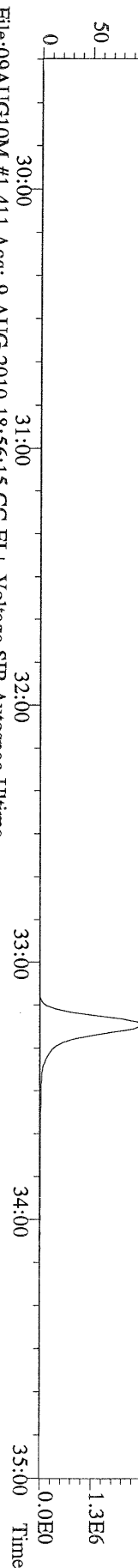
File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



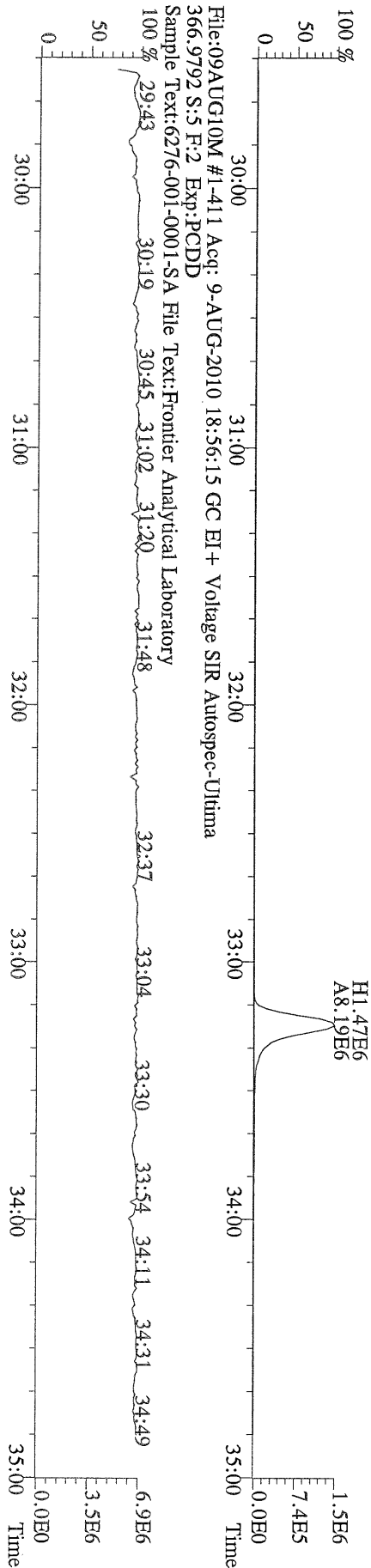
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 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory

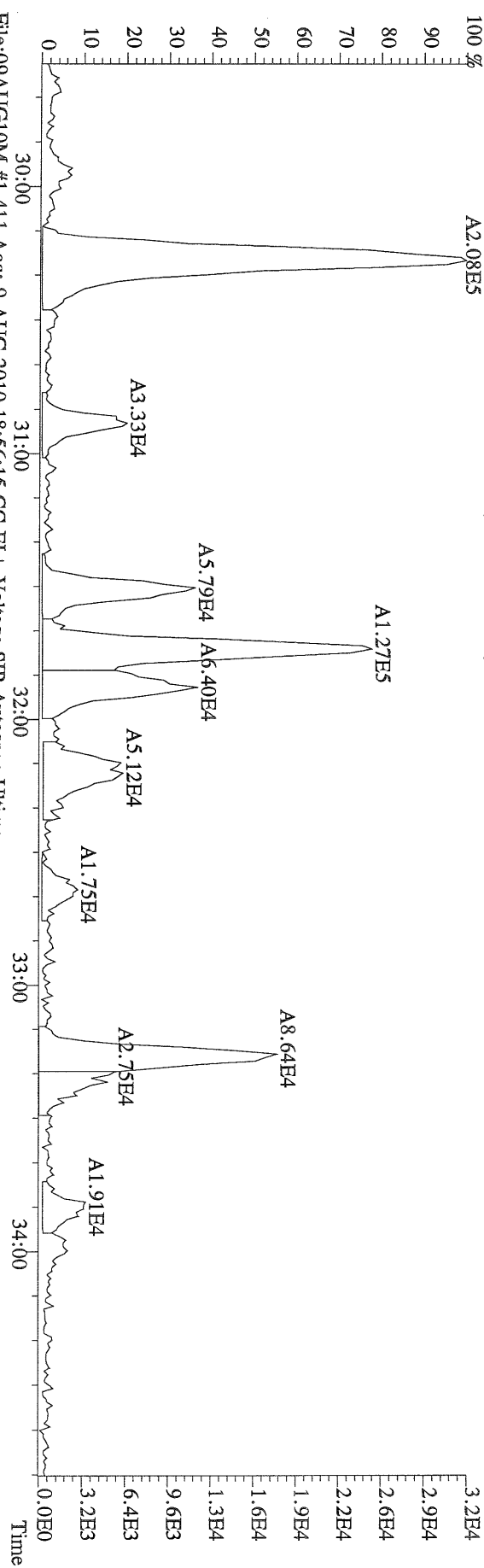


File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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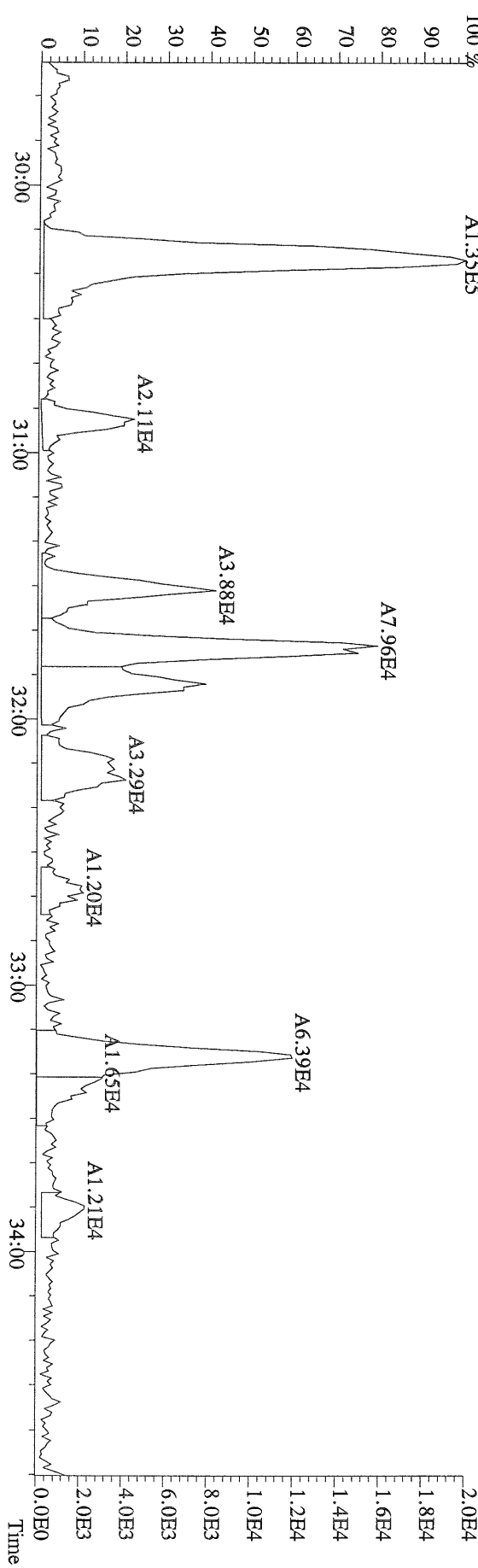


File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:5 F:2 Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100% 29:43 30:19 30:45 31:02 31:20 31:48 32:37 33:04 33:30 33:54 34:11 34:31 34:49  
 6.9E6 3.5E6 0.0E0

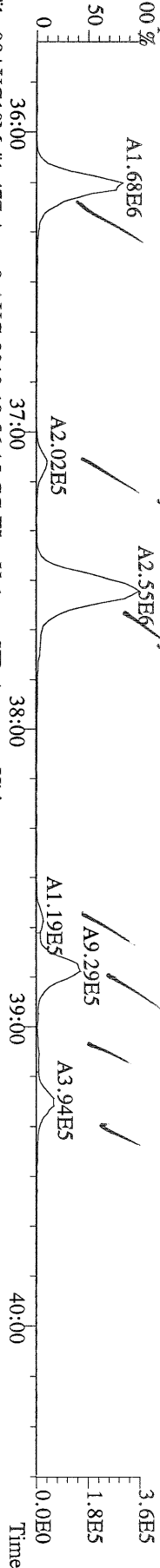
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 355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



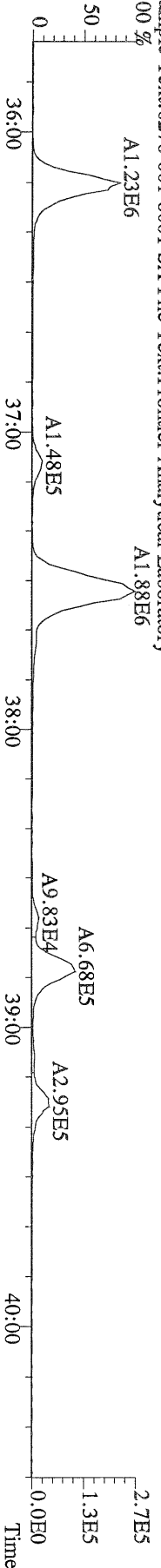
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 357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



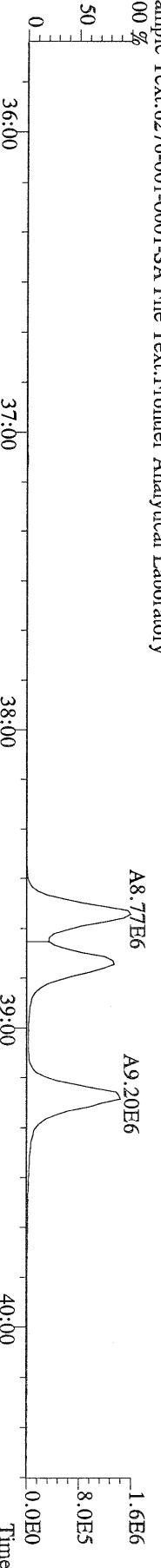
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 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



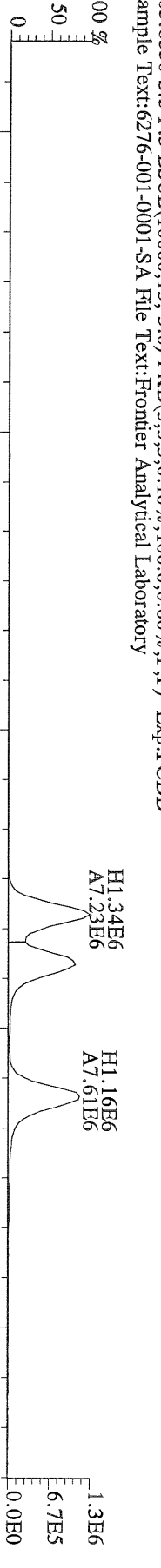
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 391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



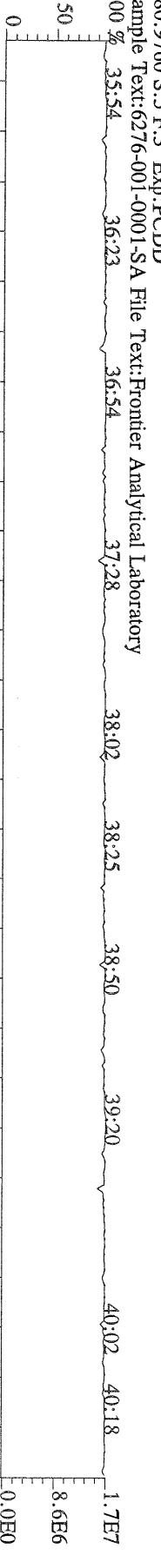
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 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



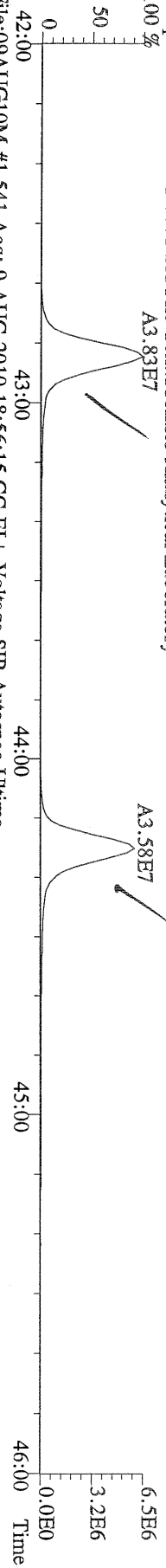
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 403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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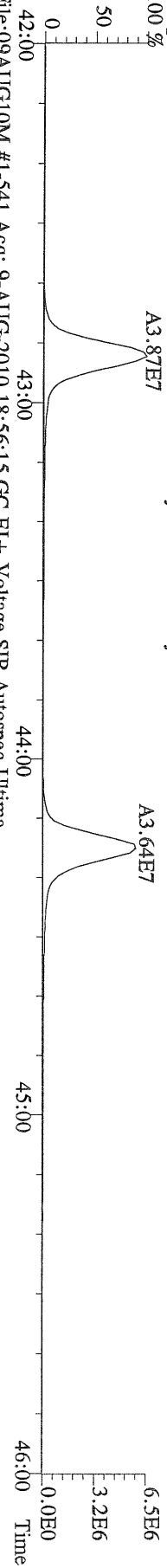
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 380.9760 S:5 F:3 Exp:PCDD  
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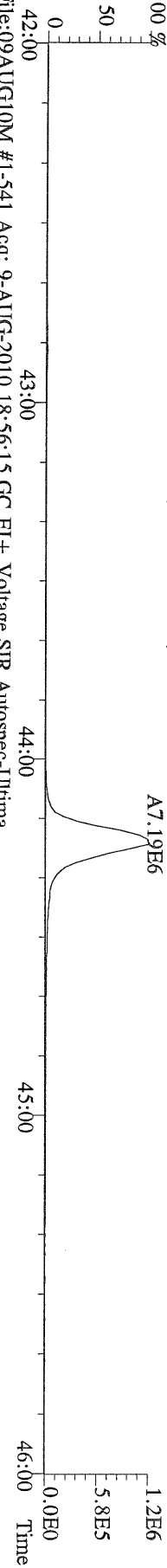
File:09AUG10M #1-541 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



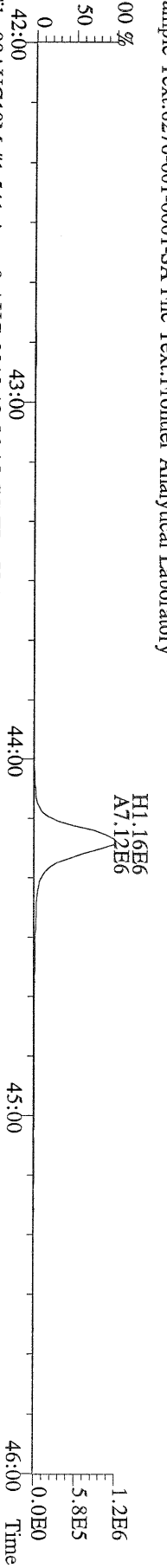
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Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



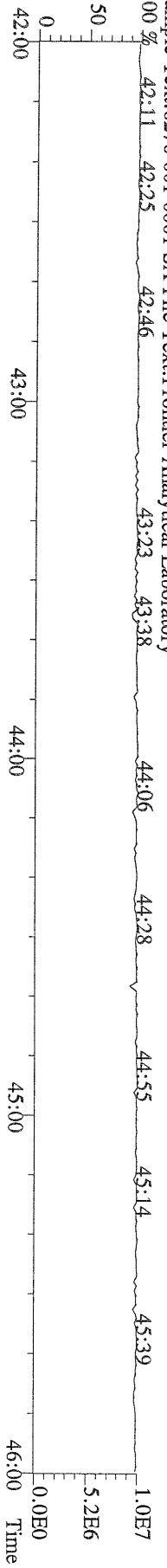
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435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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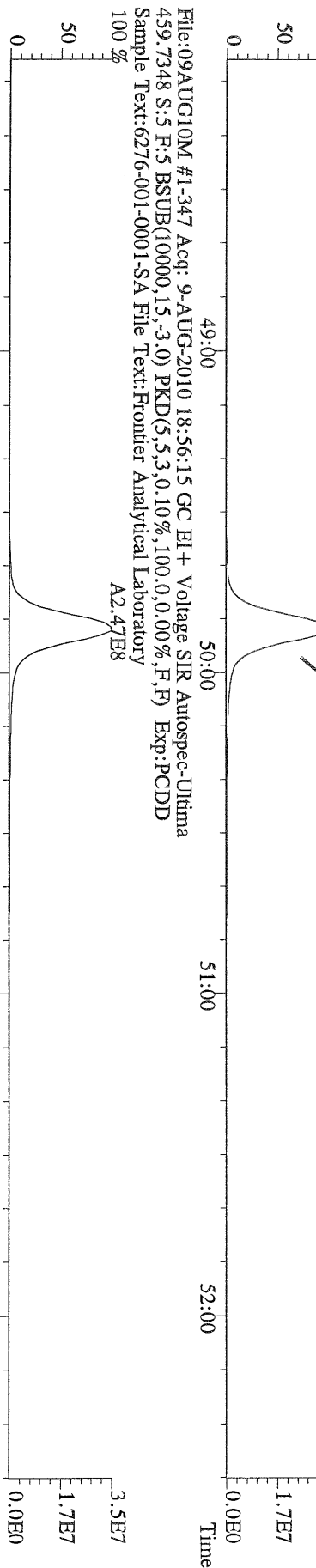
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437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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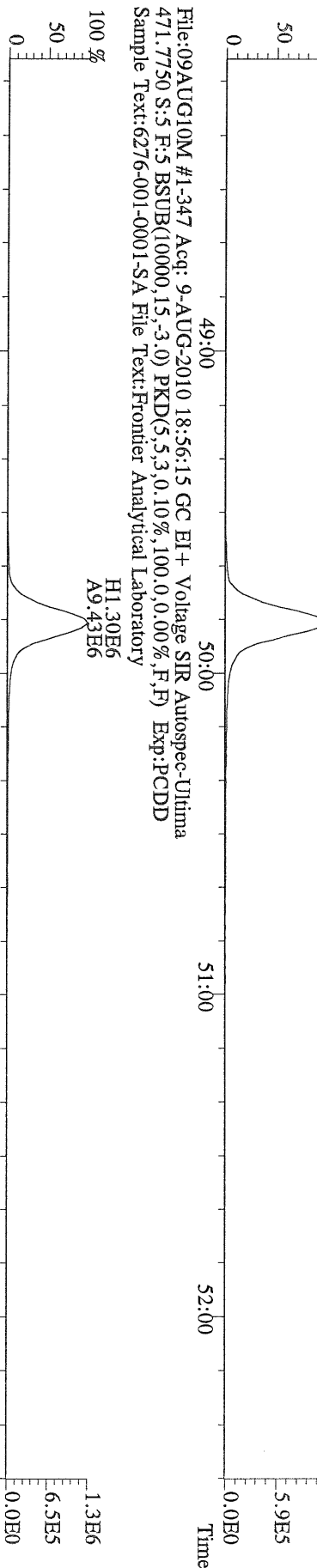
File:09AUG10M #1-541 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:5 F:4 Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



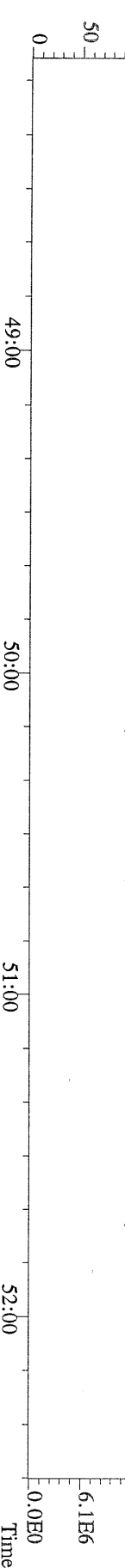
File:09AUG10M #1-347 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



File:09AUG10M #1-347 Acq: 9-AUG-2010 18:56:15 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:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



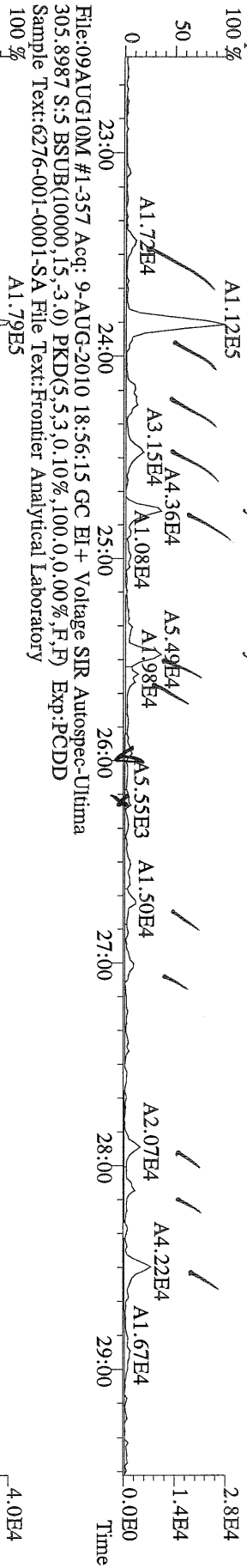
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 471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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 100 %



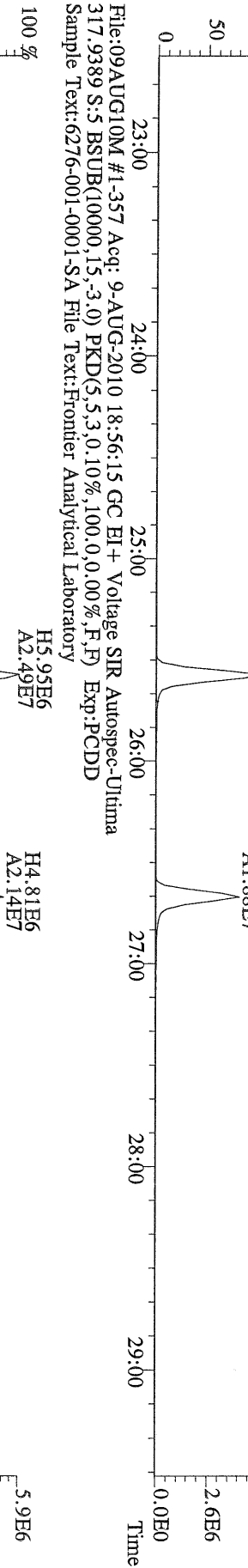
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 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
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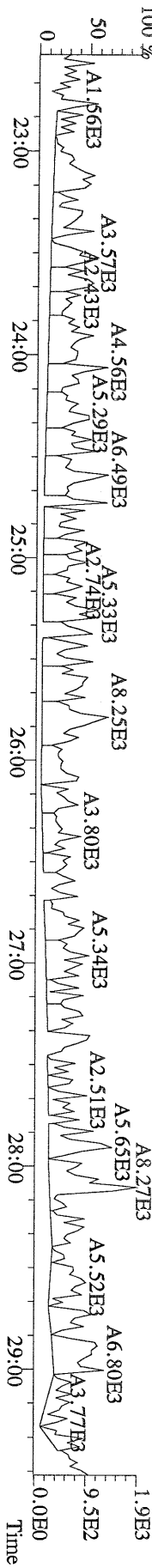
File:09AUG10M #1-357 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-357 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
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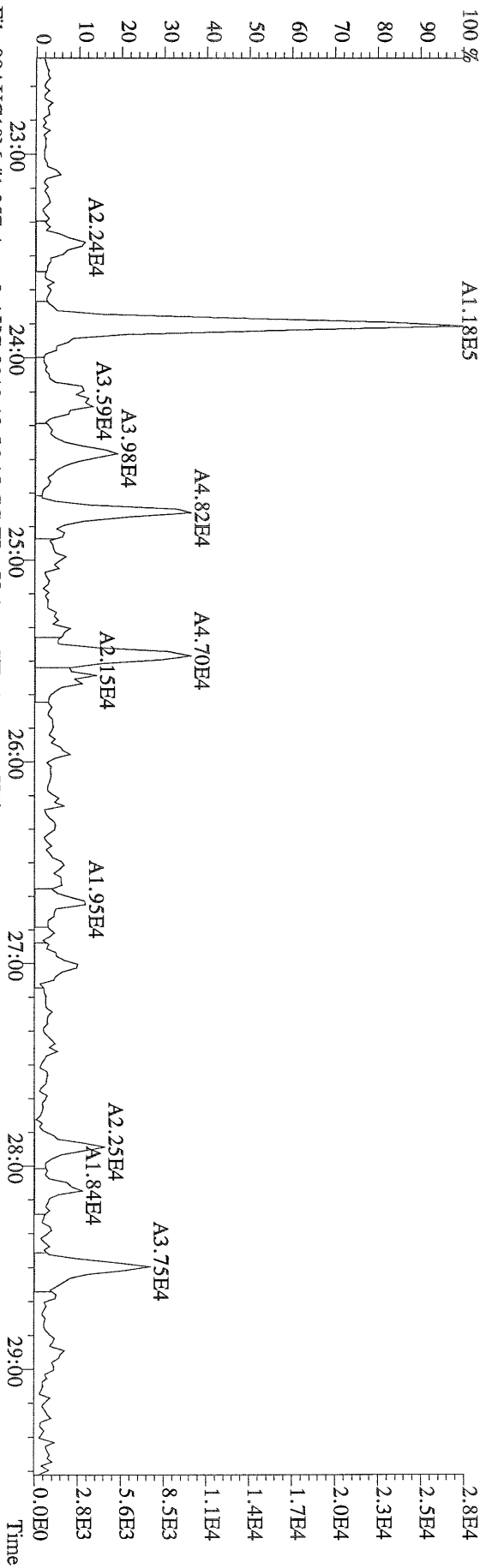


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 375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory

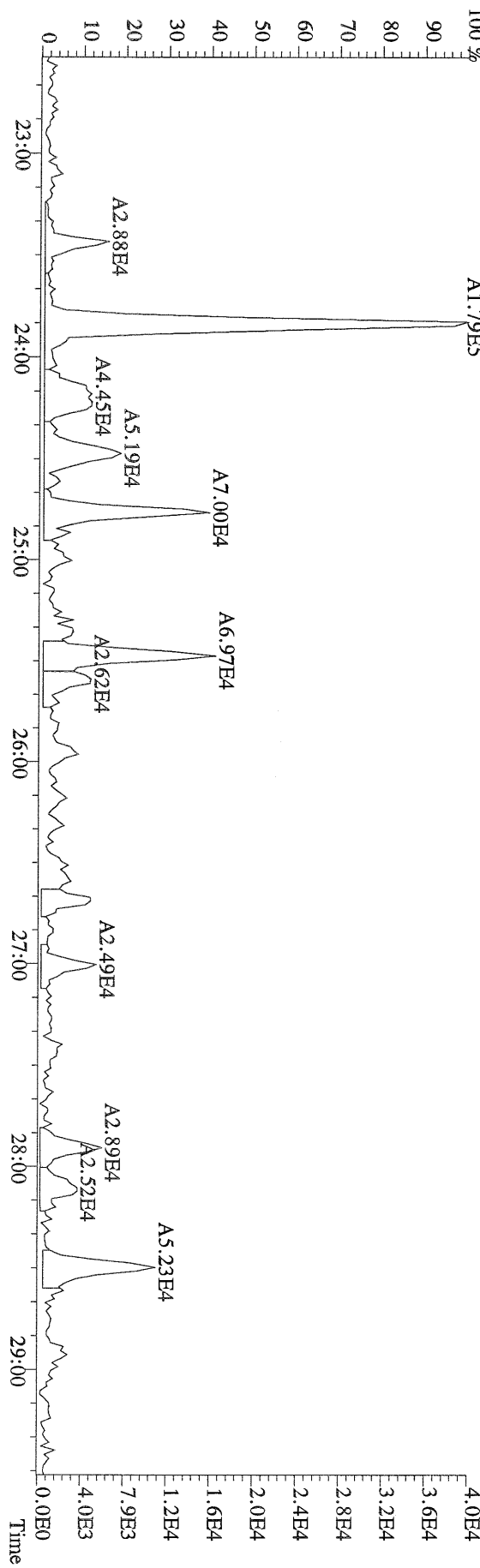




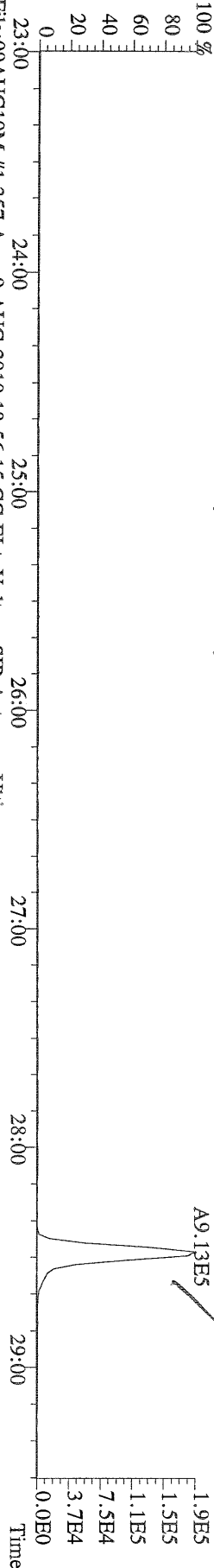
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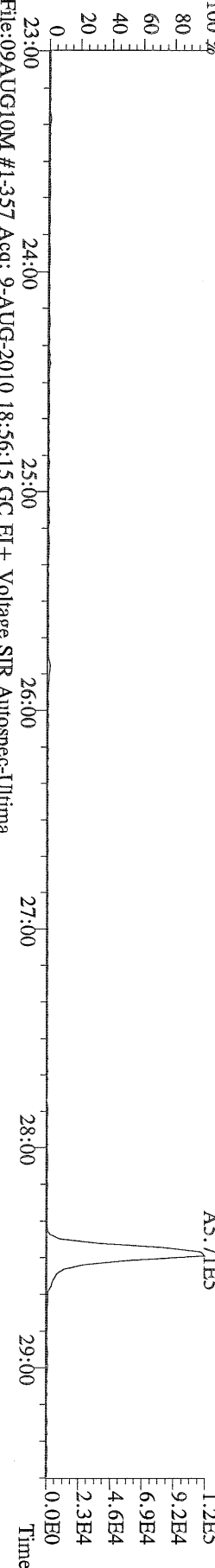
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 100 % A1.79E5



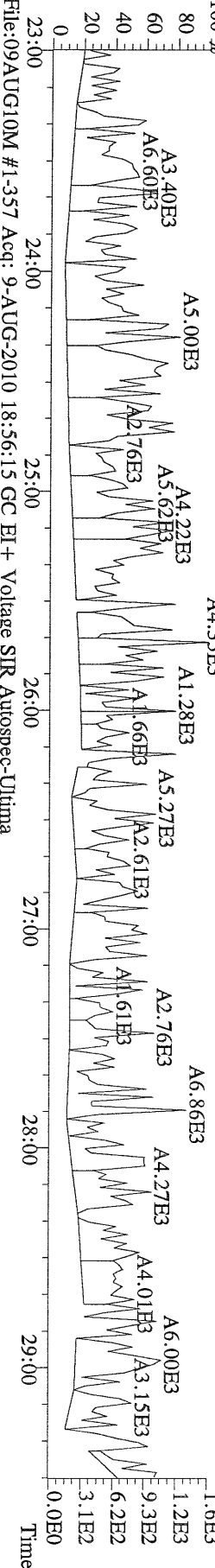
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 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



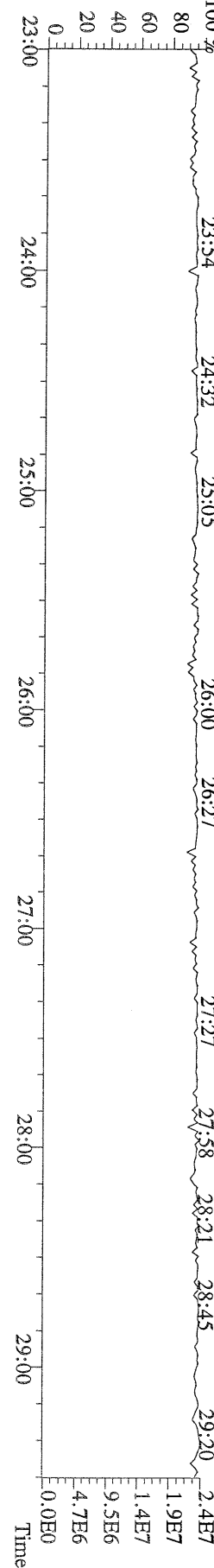
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 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



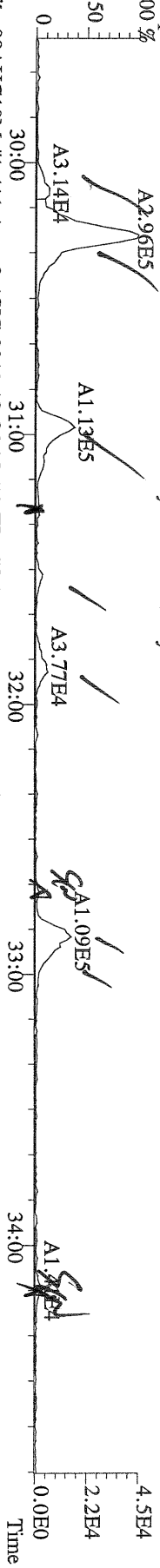
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 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



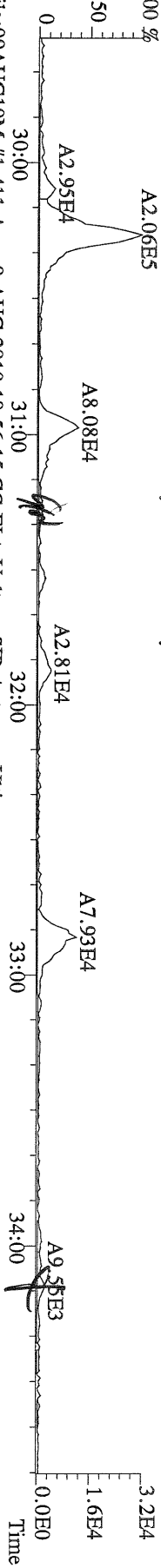
File:09AUG10M #1-357 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



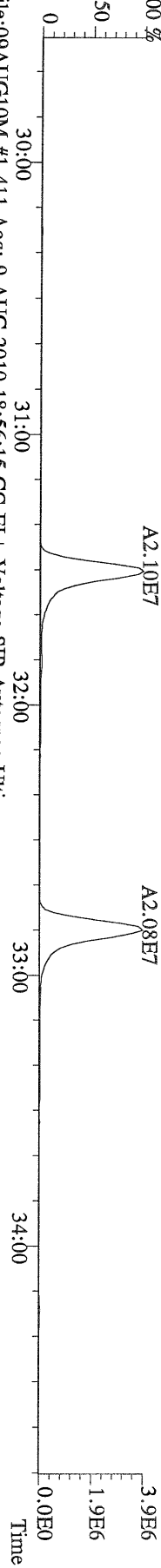
File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI + Voltage SIR Autospec-Ultima  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



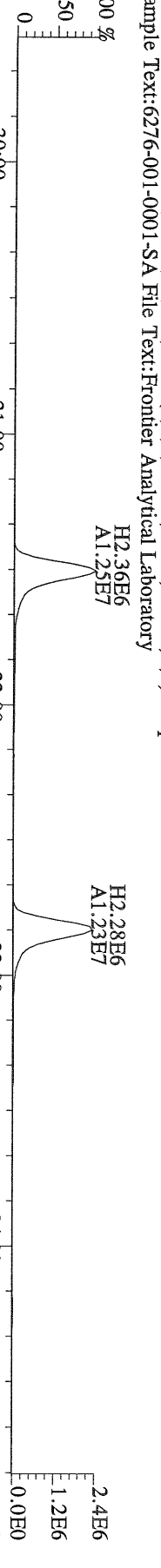
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341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



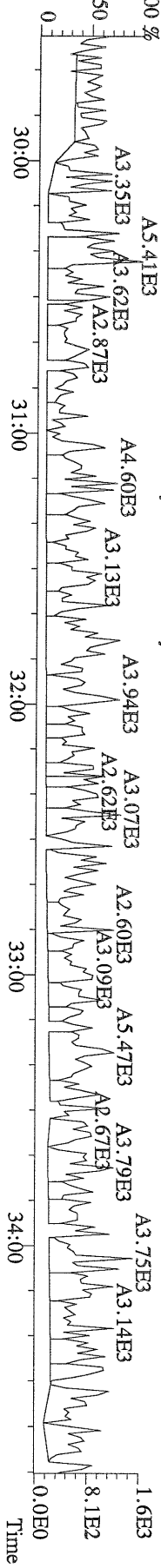
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351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



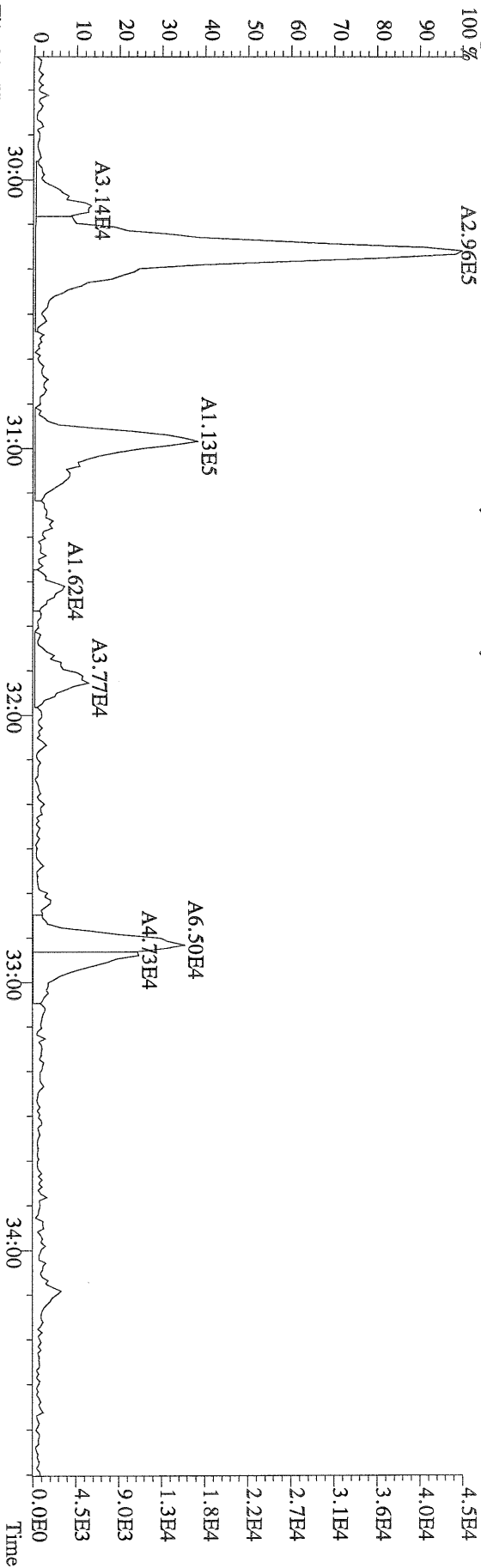
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353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
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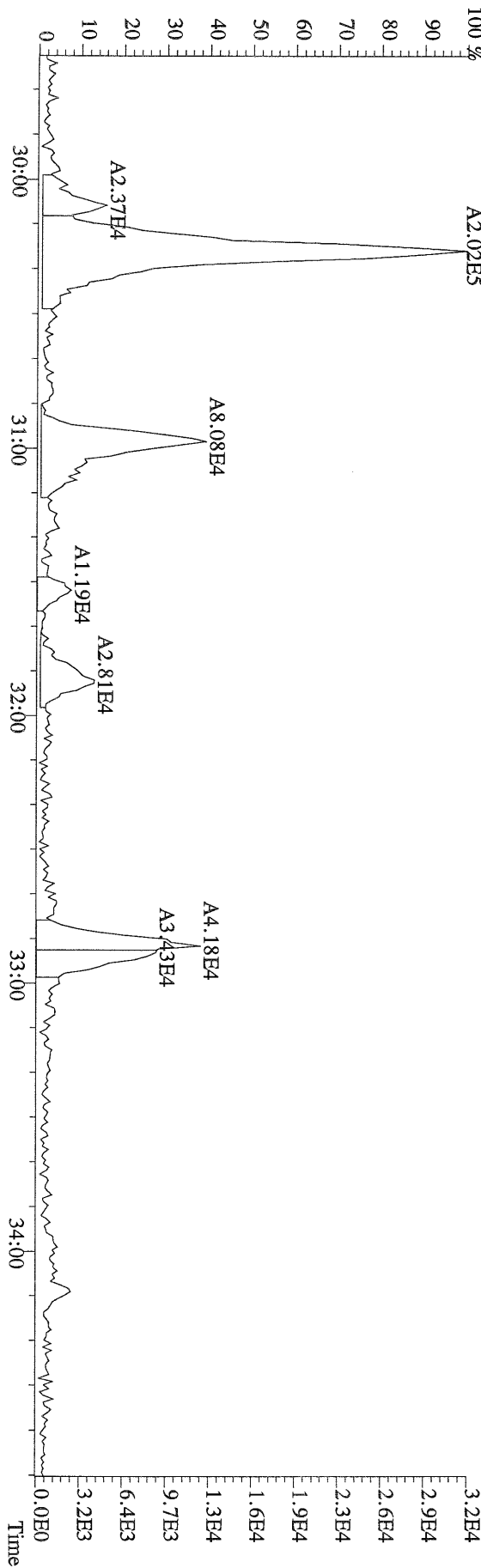
File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI + Voltage SIR Autospec-Ultima  
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



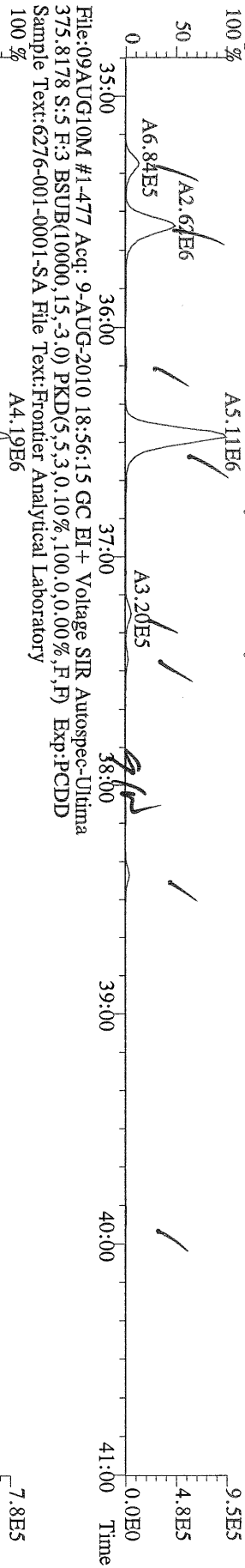
File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI + Voltage SIR Autospec-Ultima  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



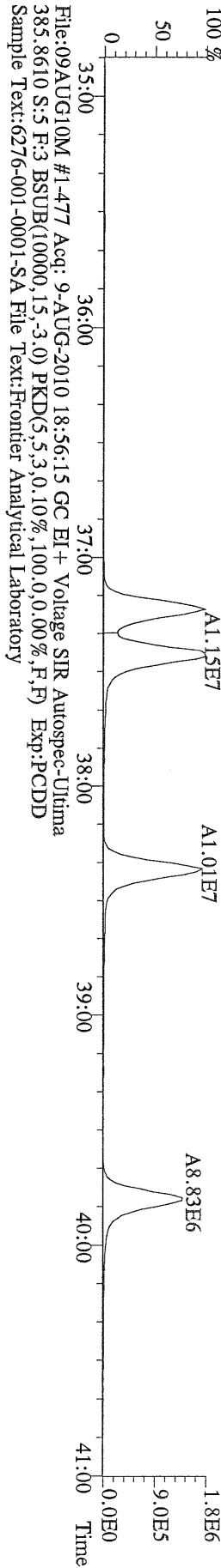
File:09AUG10M #1-411 Acq: 9-AUG-2010 18:56:15 GC EI + Voltage SIR Autospec-Ultima  
341.8568 S:5 F:2 BSUB(10000,15,-3.0) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



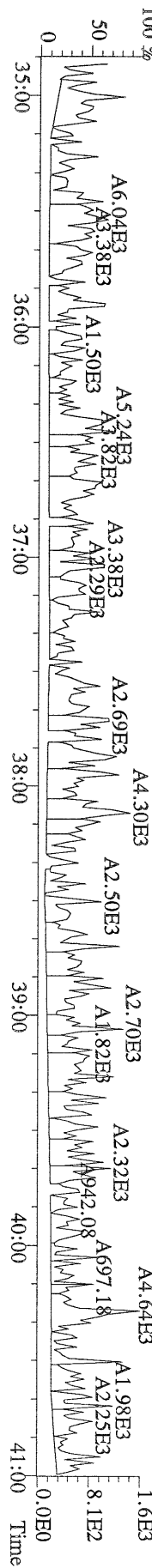
File:09AUG10M #1-477 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



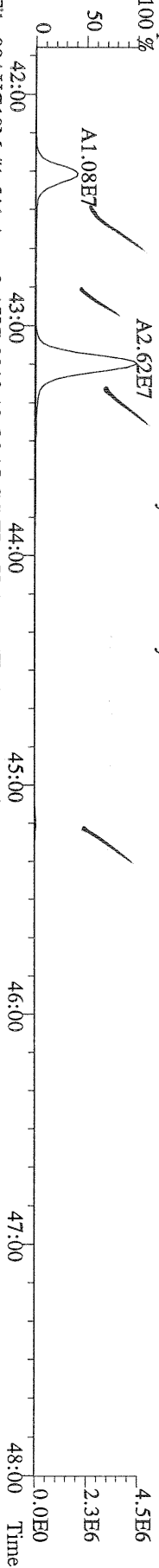
File:09AUG10M #1-477 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



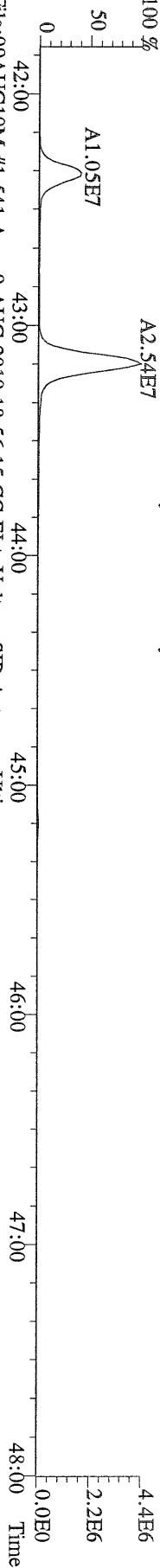
File:09AUG10M #1-477 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



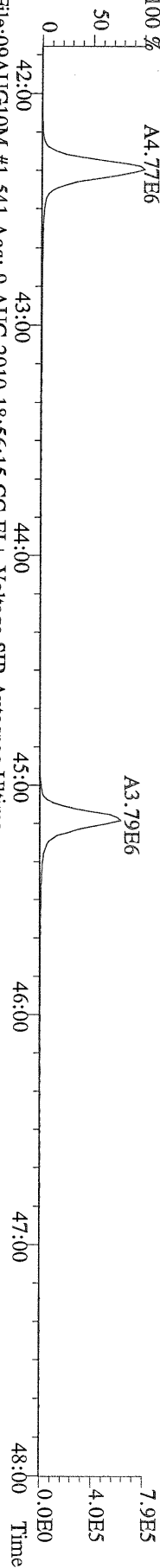
File:09AUG10M #1-541 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



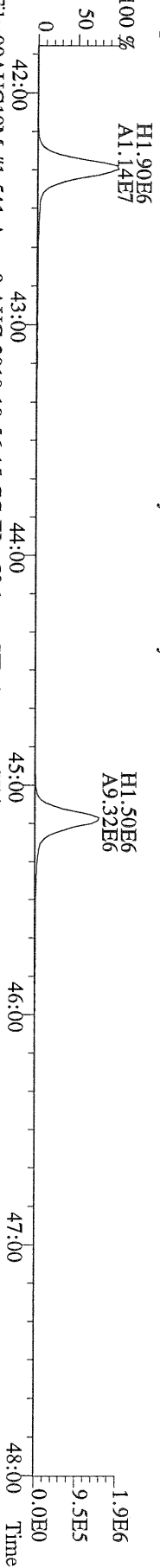
File:09AUG10M #1-541 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



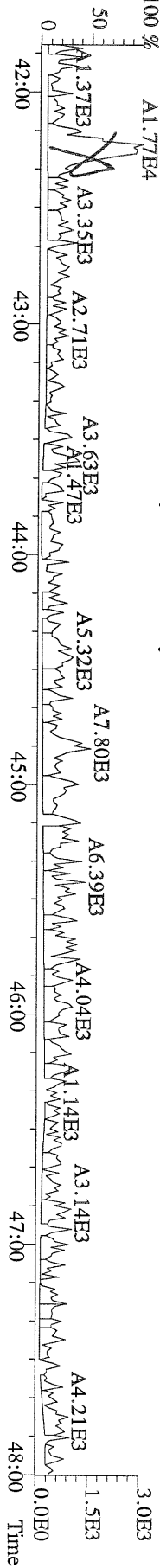
File:09AUG10M #1-541 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



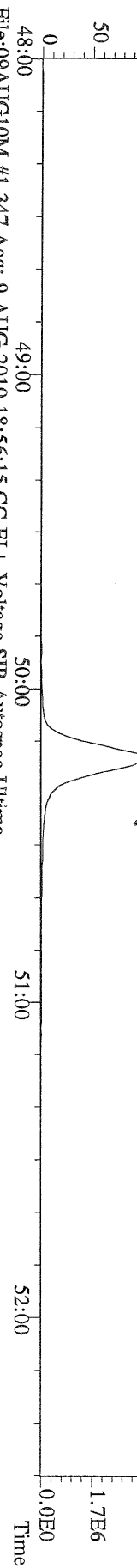
File:09AUG10M #1-541 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



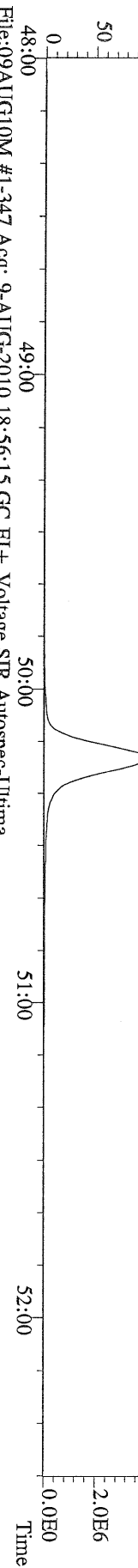
File:09AUG10M #1-541 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



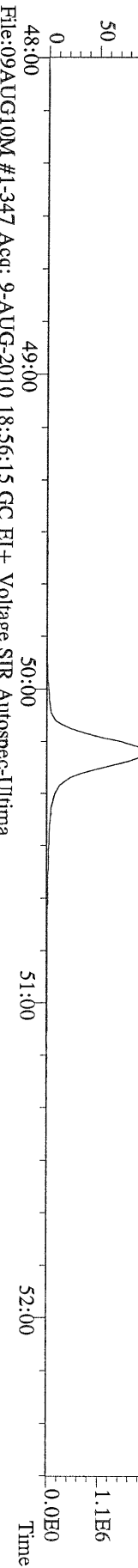
File:09AUG10M #1-347 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



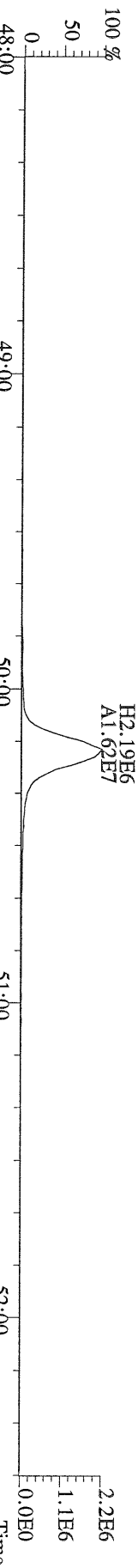
File:09AUG10M #1-347 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



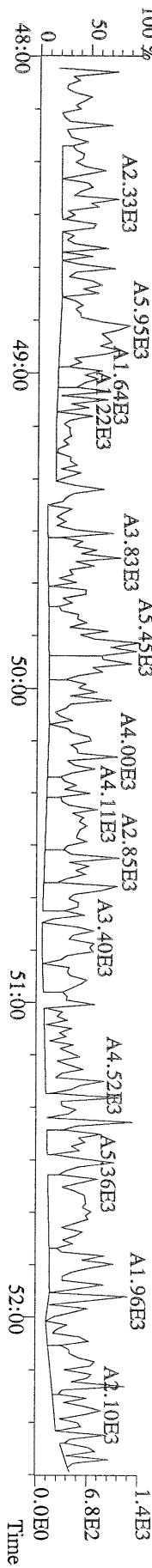
File:09AUG10M #1-347 Acq: 9-AUG-2010 18:56:15 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:09AUG10M #1-347 Acq: 9-AUG-2010 18:56:15 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:6276-001-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 18:56:15 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:6276-001-0001-SA File Text:Frontier Analytical Laboratory



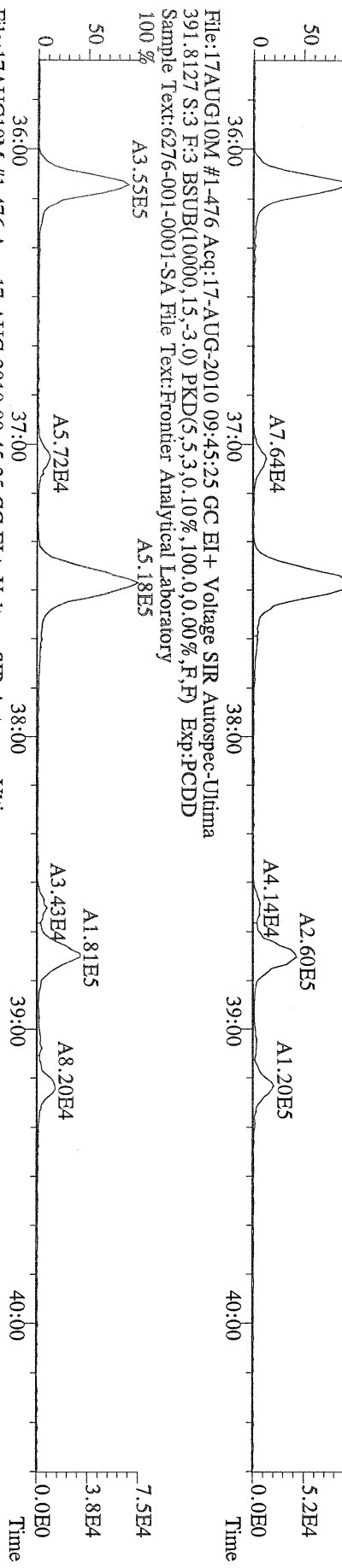
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	-	-	*	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	*		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.35	*		2.50	-	-	*	
OCDD	1.20e+08	0.95 y	49:44	1.25	30900		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	-	-	*	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	-	-	*	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.38	*		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	-	-	*	
OCDF	*	* n	NotFnd	0.74	*		2.50	-	-	*	
13C-2,3,7,8-TCDD	*	* n	NotFnd	0.93	*					*	
13C-1,2,3,7,8-PeCDD	*	* n	NotFnd	0.81	*					*	
13C-1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.95	*					*	
13C-1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.00	*					*	
13C-1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	0.92	*					*	
13C-OCDD	4.17e+06	0.97 y	49:43	0.63	1160					86.7	
13C-2,3,7,8-TCDF	*	* n	NotFnd	0.87	*					*	
13C-1,2,3,7,8-PeCDF	*	* n	NotFnd	0.81	*					*	
13C-2,3,4,7,8-PeCDF	*	* n	NotFnd	0.75	*					*	
13C-1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.74	*					*	
13C-1,2,3,6,7,8-HxCDF	*	* n	NotFnd	2.17	*					*	
13C-2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.82	*					*	
13C-1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.49	*					*	
13C-1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.10	*					*	
13C-1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	0.81	*					*	
13C-OCDF	*	* n	NotFnd	1.19	*					*	
37Cl-2,3,7,8-TCDD	*		NotFnd	0.93	*					*	
13C-1,2,3,4-TCDD	*	* n	NotFnd	-	*					*	
13C-1,2,3,4-TCDF	*	* n	NotFnd	-	*					*	
13C-1,2,3,7,8,9-HxCDD	3.81e+06	1.24 y	39:11	-	5.91					*	
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	-	-	*	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	-	-	*	0
Total Hexa-Dioxins	*		NotFnd	1.27	*		2.50	-	-	*	0
Total Hepta-Dioxins	*		NotFnd	1.35	*		2.50	-	-	*	0
Total Tetra-Furans	*		NotFnd	1.62	*		2.50	-	-	*	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.93	*		2.50	-	-	*	PeCDF 0
Total Penta-Furans	*		NotFnd	0.93	*		2.50	-	-	*	0.00 0
Total Hexa-Furans	*		NotFnd	0.90	*		2.50	-	-	*	0
Total Hepta-Furans	*		NotFnd	1.48	*		2.50	-	-	*	0

Analyst: 

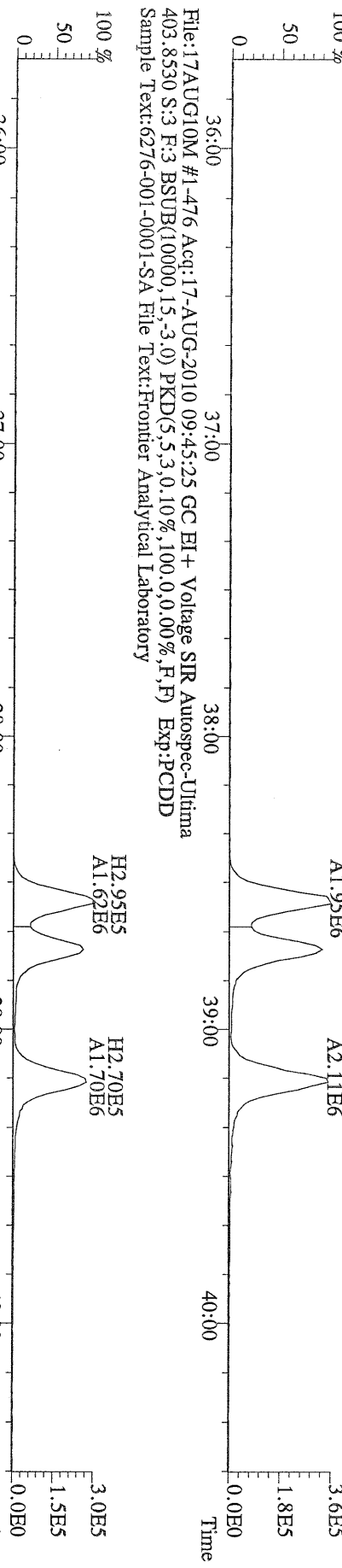
Date: 8/17/10



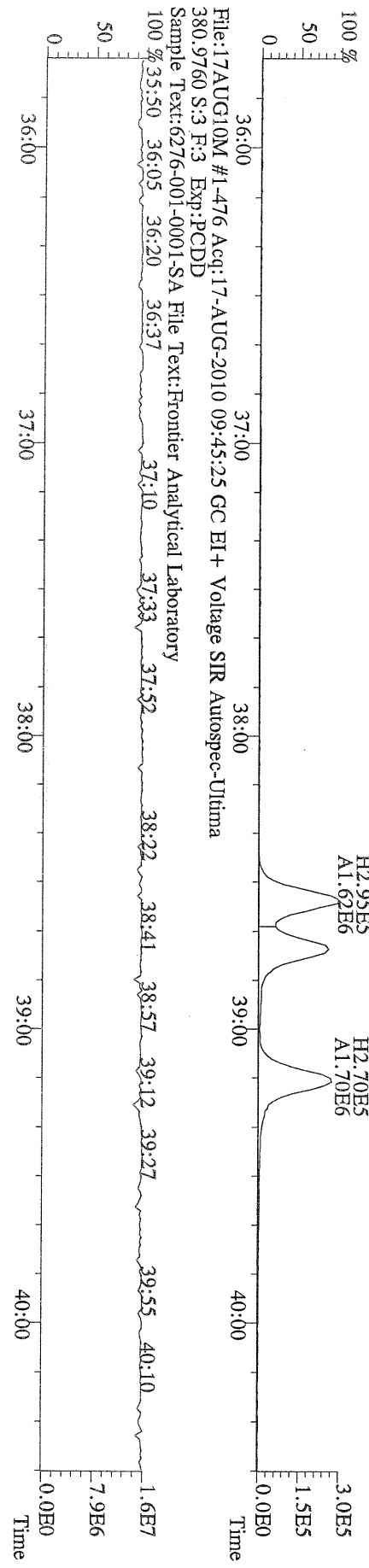
File:17AUG10M #1-476 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Utima  
 389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



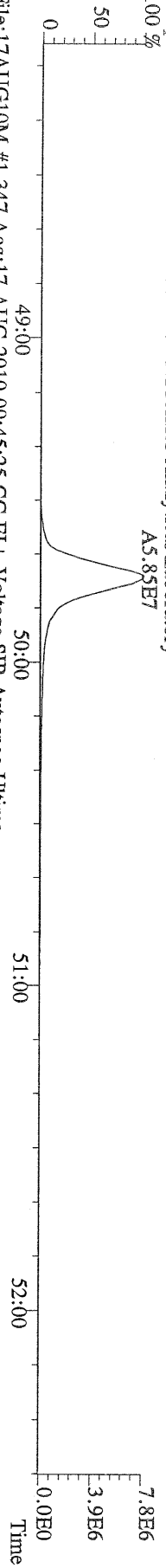
File:17AUG10M #1-476 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Utima  
 401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



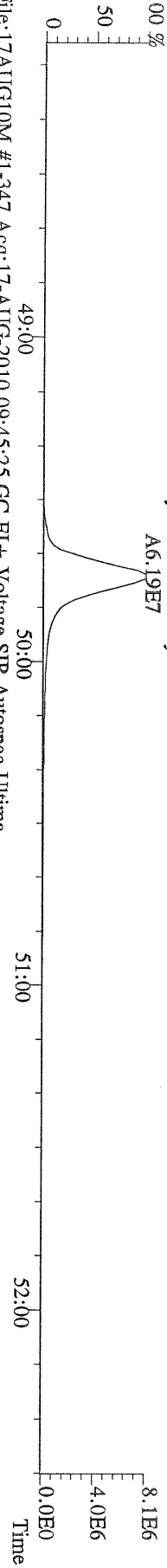
File:17AUG10M #1-476 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Utima  
 403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



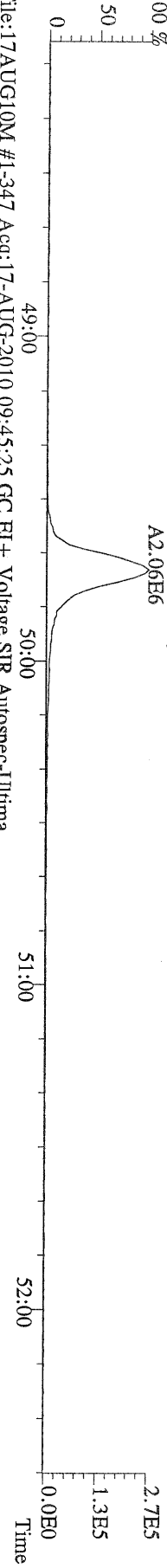
File:17AUG10M #1-347 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



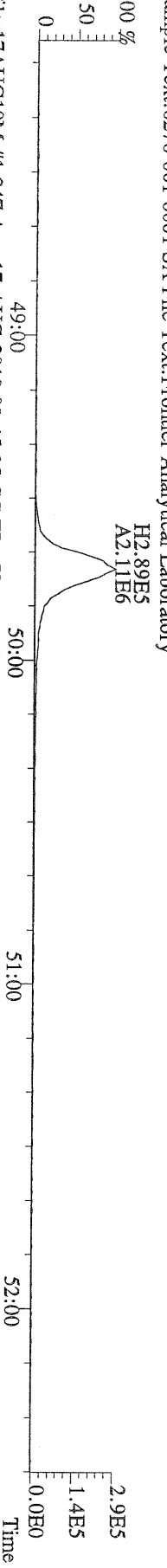
File:17AUG10M #1-347 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



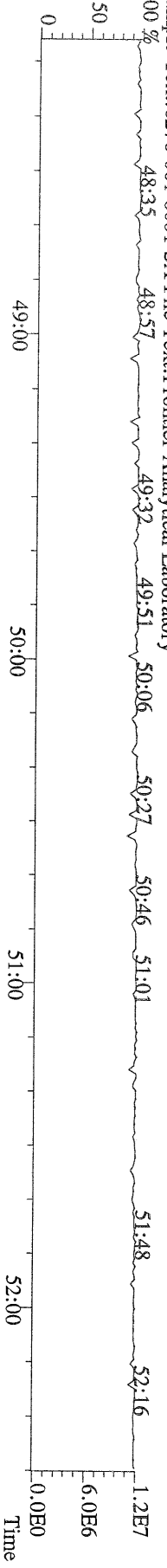
File:17AUG10M #1-347 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:17AUG10M #1-347 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 09:45:25 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:3 F:5 Exp:PCDD  
Sample Text:6276-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6276-002-0001-SA     Filename: 17AUG10M     Sam:12     Acquired: 17-AUG-10 18:03:50     ICal: PCDDFAL3-5-12-10  
 Client ID: PSB11-1.5-2-073010 1:200     ConCal: ST081710M1     EndCal: ST081710M2  
 Results: 6276D     GC Column: DB5     Amount: 2.700     NATO 1989 Tox: 25800

WHO 1998 Tox: 19900     WHO 2005 Tox: 21200  
 Fac Noise-1     Noise-2     DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL	#Hom
2,3,7,8-TCDD	3.33e+05	0.75 y	27:25	1.04	446		2.50	-	-	*	
1,2,3,7,8-PeCDD	1.02e+06	1.58 y	33:14	1.05	1540		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.43e+06	1.34 y	38:36	1.30	2670		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.30e+07	1.41 y	38:45	1.28	24600		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	4.63e+06	1.34 y	39:12	1.25	8970		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	4.60e+08	1.00 y	44:11	1.35	922000		2.50	-	-	*	
OCDD	2.01e+09	0.94 y	49:47	1.25	6050000		2.50	-	-	*	
2,3,7,8-TCDF	6.32e+04	0.72 y	26:41	1.62	36.9	OK 05221 F	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.45e+05	1.54 y	31:29	0.92	174		2.50	-	-	*	
2,3,4,7,8-PeCDF	7.59e+05	1.46 y	32:49	0.94	849		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	4.14e+06	1.31 y	37:12	0.93	5050		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.81e+06	1.27 y	37:24	0.84	2230		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	2.79e+06	1.25 y	38:21	0.90	3680		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	5.45e+05	1.22 y	39:49	0.98	805		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.56e+08	1.05 y	42:17	1.38	257000		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	5.19e+06	1.06 y	45:07	1.62	9580		2.50	-	-	*	
OCDF	5.14e+08	0.87 y	50:08	0.74	1380000		2.50	-	-	*	
13C-2,3,7,8-TCDD	5.34e+05	0.87 y	27:23	0.93	776					Rec 105	
13C-1,2,3,7,8-PeCDD	4.68e+05	1.66 y	33:12	0.81	781					105	
13C-1,2,3,4,7,8-HxCDD	3.06e+05	1.21 y	38:34	0.95	733					99.0	
13C-1,2,3,6,7,8-HxCDD	3.07e+05	1.22 y	38:44	1.00	699					94.4	
13C-1,2,3,4,6,7,8-HpCDD	2.73e+05	1.02 y	44:10	0.92	673					90.9	
13C-OCDD	3.94e+05	1.00 y	49:47	0.63	1410					95.4	
13C-2,3,7,8-TCDF	7.85e+05	0.81 y	26:38	0.87	715					96.5	
13C-1,2,3,7,8-PeCDF	6.76e+05	1.70 y	31:29	0.81	662					89.4	
13C-2,3,4,7,8-PeCDF	7.01e+05	1.67 y	32:48	0.75	738					99.6	
13C-1,2,3,4,7,8-HxCDF	6.52e+05	0.57 y	37:10	1.74	851					115	
13C-1,2,3,6,7,8-HxCDF	7.16e+05	0.58 y	37:23	2.17	749					101	
13C-2,3,4,6,7,8-HxCDF	6.28e+05	0.56 y	38:19	1.82	784					106	
13C-1,2,3,7,8,9-HxCDF	5.09e+05	0.58 y	39:45	1.49	778					105	
13C-1,2,3,4,6,7,8-HpCDF	3.24e+05	0.43 y	42:16	1.10	670					90.5	
13C-1,2,3,4,7,8,9-HpCDF	2.47e+05	0.45 y	45:05	0.81	687					92.8	
13C-OCDF	7.46e+05	0.98 y	50:07	1.19	1430					96.3	
37Cl-2,3,7,8-TCDD	2.08e+05		27:25	0.93	302					102	
13C-1,2,3,4-TCDD	5.50e+05	0.87 y	26:49	-	0.600						
13C-1,2,3,4-TCDF	9.37e+05	0.83 y	25:33	-	0.651						
13C-1,2,3,7,8,9-HxCDD	3.27e+05	1.18 y	39:10	-	0.561						
Total Tetra-Dioxins	1.58e+06		24:25	1.04	2110		2.50	-	-	*	11
Total Penta-Dioxins	6.85e+06		30:14	1.05	10300		2.50	-	-	*	10
Total Hexa-Dioxins	8.46e+07		36:08	1.27	160000		2.50	-	-	*	7
Total Hepta-Dioxins	8.97e+08		42:48	1.35	1800000		2.50	-	-	*	2
Total Tetra-Furans	3.20e+06		23:03	1.62	1860	D,M	2.50	-	-	*	16
1st Fn. Tot Penta-Furans	5.37e+06		28:28	0.93	6210	D,M	2.50	-	-	*	PeCDF 1
Total Penta-Furans	6.07e+06		30:05	0.93	6990	D,M	2.50	-	-	*	13200 11
Total Hexa-Furans	1.40e+08		35:14	0.90	183000	D,M	2.50	-	-	*	11
Total Hepta-Furans	6.29e+08		42:17	1.48	1090000		2.50	-	-	*	4

Analyst: J

Date: 8/18/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 19

File: 17AUG10M

S: 12 I: 1 F: 1

Acquired: 17-AUG-10 18:03:50

Total Concentration: 2110

Unnamed Concentration: 1664.522

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:25	6.63e+04	9.08e+04	0.73 y	1.57e+05	210	
24:41	5.80e+04	7.25e+04	0.80 y	1.30e+05	175	
24:59	2.87e+04	4.24e+04	0.68 y	7.10e+04	95.2	
25:49	2.44e+04	3.36e+04	0.73 y	5.80e+04	77.8	
25:58	1.60e+05	2.07e+05	0.77 y	3.67e+05	492	
26:06	1.41e+04	2.07e+04	0.68 y	3.48e+04	46.6	
26:19	1.80e+04	2.58e+04	0.70 y	4.39e+04	58.8	
26:29	2.45e+04	2.81e+04	0.87 y	5.26e+04	70.4	
26:50	1.09e+05	1.48e+05	0.73 y	2.57e+05	344	
27:25	1.43e+05	1.90e+05	0.75 y	3.33e+05	446	2,3,7,8-TCDD
27:43	2.95e+04	4.10e+04	0.72 y	7.05e+04	94.4	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 19 File: 17AUG10M S: 12 I: 1 F: 2  
Acquired: 17-AUG-10 18:03:50

Total Concentration: 10300

Unnamed Concentration: 8809.437

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:14	1.37e+06	8.56e+05	1.60 y	2.23e+06	3360	
30:52	1.64e+05	1.08e+05	1.51 y	2.72e+05	411	
31:29	2.56e+05	1.69e+05	1.51 y	4.25e+05	642	
31:43	9.27e+05	5.78e+05	1.60 y	1.50e+06	2270	
31:51	2.98e+05	1.84e+05	1.62 y	4.83e+05	729	
32:08	2.72e+05	1.70e+05	1.60 y	4.43e+05	669	
32:36	1.06e+05	7.11e+04	1.49 y	1.77e+05	267	
33:14	6.23e+05	3.95e+05	1.58 y	1.02e+06	1540	1,2,3,7,8-PeCDD
33:19	9.68e+04	6.42e+04	1.51 y	1.61e+05	243	
33:48	8.82e+04	5.19e+04	1.70 y	1.40e+05	212	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 19

File: 17AUG10M

S: 12 I: 1 F: 3

Acquired: 17-AUG-10 18:03:50

Total Concentration: 160000

Unnamed Concentration: 124200.130

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:08	1.49e+07	1.06e+07	1.40 y	2.55e+07	48400	
37:03	1.68e+06	1.21e+06	1.39 y	2.89e+06	5480	
37:29	2.09e+07	1.51e+07	1.38 y	3.61e+07	68400	
38:36	8.21e+05	6.13e+05	1.34 y	1.43e+06	2670	1,2,3,4,7,8-HxCDD
38:45	7.63e+06	5.41e+06	1.41 y	1.30e+07	24600	1,2,3,6,7,8-HxCDD
39:03	5.68e+05	4.01e+05	1.42 y	9.69e+05	1840	
39:12	2.66e+06	1.98e+06	1.34 y	4.63e+06	8970	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 19

File: 17AUG10M

S: 12 I: 1 F: 4

Acquired: 17-AUG-10 18:03:50

Total Concentration: 1800000

Unnamed Concentration: 873666.340

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	2.22e+08	2.15e+08	1.03 y	4.36e+08	874000	
44:11	2.30e+08	2.30e+08	1.00 y	4.60e+08	922000	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 19 File: 17AUG10M S: 12 I: 1 F: 1  
Acquired: 17-AUG-10 18:03:50

Total Concentration: 1860

Unnamed Concentration: 1827.671

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:03	1.63e+04	2.31e+04	0.71 y	3.93e+04	23.0	
23:25	4.86e+04	7.27e+04	0.67 y	1.21e+05	70.7	
23:49	3.01e+05	4.46e+05	0.67 y	7.47e+05	436	
24:12	7.76e+04	1.04e+05	0.75 y	1.81e+05	106	
24:26	9.37e+04	1.39e+05	0.68 y	2.33e+05	136	
24:45	1.09e+05	1.65e+05	0.66 y	2.74e+05	160	
24:58	1.73e+04	2.56e+04	0.67 y	4.29e+04	25.0	
25:28	1.60e+05	2.37e+05	0.67 y	3.97e+05	232	
25:35	8.00e+04	1.15e+05	0.70 y	1.95e+05	113	
25:56	2.96e+04	3.36e+04	0.88 y	6.32e+04	36.8	
26:33	4.41e+04	6.69e+04	0.66 y	1.11e+05	64.7	
26:41	2.64e+04	3.68e+04	0.72 y	6.32e+04	36.9	2,3,7,8-TCDF
27:22	2.60e+04	3.35e+04	0.78 y	5.95e+04	34.7	
27:52	7.60e+04	1.08e+05	0.71 y	1.84e+05	107	
28:05	4.81e+04	6.16e+04	0.78 y	1.10e+05	64.0	
28:28	1.55e+05	2.21e+05	0.70 y	3.76e+05	219	



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

Run: 19      File: 17AUG10M      S: 12 I: 1 F: 1  
Acquired: 17-AUG-10 18:03:50

Total Concentration: 6210      Unnamed Concentration: 6208.676

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:28	3.27e+06	2.10e+06	1.55 y	5.37e+06	6210	

Totals class: Total Penta-Furans

Entry #: 44

Run: 19 File: 17AUG10M S: 12 I: 1 F: 2  
Acquired: 17-AUG-10 18:03:50

Total Concentration: 6990

Unnamed Concentration: 5969.923

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:05	1.59e+05	1.13e+05	1.40 y	2.72e+05	315	
30:14	1.70e+06	1.16e+06	1.47 y	2.86e+06	3310	
30:45	5.10e+04	3.48e+04	1.47 y	8.58e+04	99.3	
30:56	5.72e+05	4.01e+05	1.43 y	9.73e+05	1130	
31:15	5.95e+04	4.16e+04	1.43 y	1.01e+05	117	
31:29	8.82e+04	5.71e+04	1.54 y	1.45e+05	174	1,2,3,7,8-PeCDF
31:50	1.93e+05	1.35e+05	1.42 y	3.28e+05	379	
32:41	2.77e+04	1.82e+04	1.52 y	4.59e+04	53.2	
32:49	4.51e+05	3.08e+05	1.46 y	7.59e+05	849	2,3,4,7,8-PeCDF
32:52	2.20e+05	1.57e+05	1.40 y	3.77e+05	436	
34:07	6.92e+04	4.48e+04	1.55 y	1.14e+05	132	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 19 File: 17AUG10M  
Acquired: 17-AUG-10 18:03:50

S: 12 I: 1 F: 3

Total Concentration: 183000

Unnamed Concentration: 171336.596

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:14	3.51e+06	2.80e+06	1.25 y	6.31e+06	8250	
35:31	1.62e+07	1.27e+07	1.28 y	2.89e+07	37800	
36:07	9.85e+05	7.61e+05	1.30 y	1.75e+06	2280	
36:26	5.18e+07	4.08e+07	1.27 y	9.26e+07	121000	
37:02	2.88e+05	2.14e+05	1.34 y	5.02e+05	656	
37:12	2.35e+06	1.79e+06	1.31 y	4.14e+06	5050	1,2,3,4,7,8-HxCDF
37:24	1.01e+06	7.97e+05	1.27 y	1.81e+06	2230	1,2,3,6,7,8-HxCDF
37:51	2.93e+05	2.38e+05	1.23 y	5.30e+05	694	
38:05	2.19e+05	1.88e+05	1.17 y	4.07e+05	532	
38:21	1.55e+06	1.24e+06	1.25 y	2.79e+06	3680	2,3,4,6,7,8-HxCDF
39:49	2.99e+05	2.46e+05	1.22 y	5.45e+05	805	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 19

File: 17AUG10M

S: 12 I: 1 F: 4

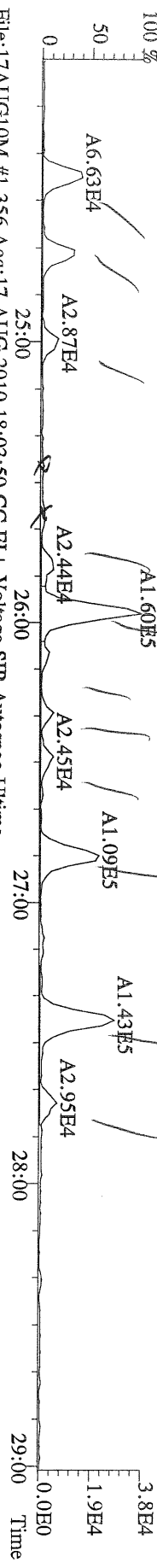
Acquired: 17-AUG-10 18:03:50

Total Concentration: 1090000

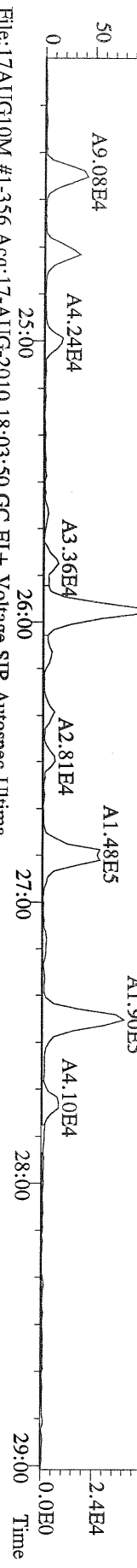
Unnamed Concentration: 818254.015

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	7.98e+07	7.58e+07	1.05 y	1.56e+08	257000	1,2,3,4,6,7,8-HpCDF
42:49	1.92e+06	1.89e+06	1.02 y	3.81e+06	6660	
43:06	2.39e+08	2.25e+08	1.06 y	4.65e+08	812000	
45:07	2.67e+06	2.52e+06	1.06 y	5.19e+06	9580	1,2,3,4,7,8,9-HpCDF

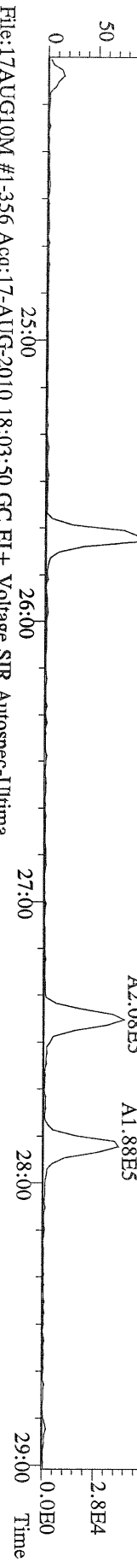
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
321.8936 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



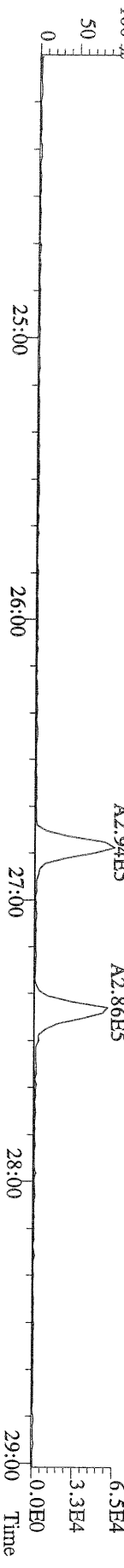
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
327.8847 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



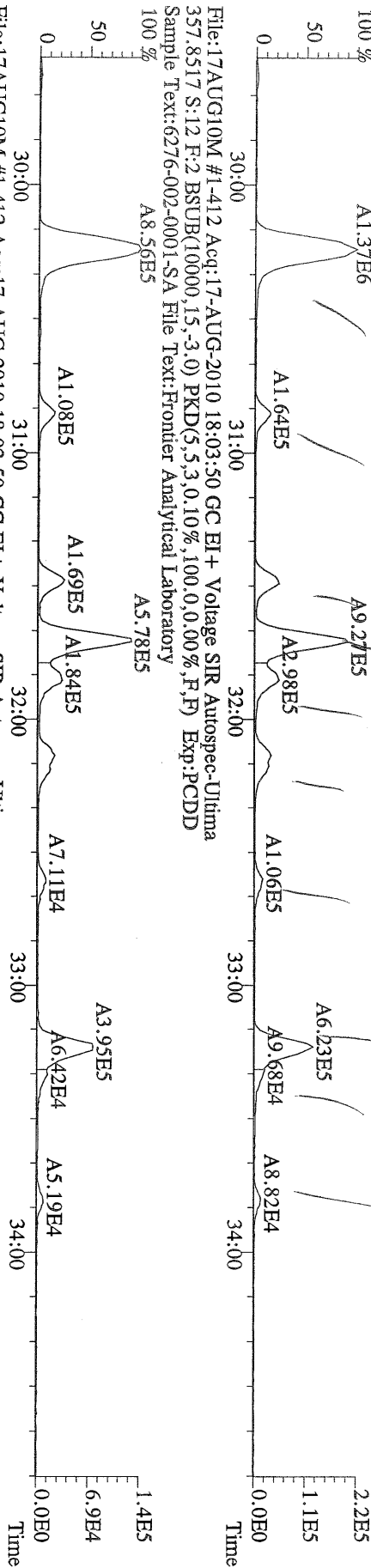
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
331.9368 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



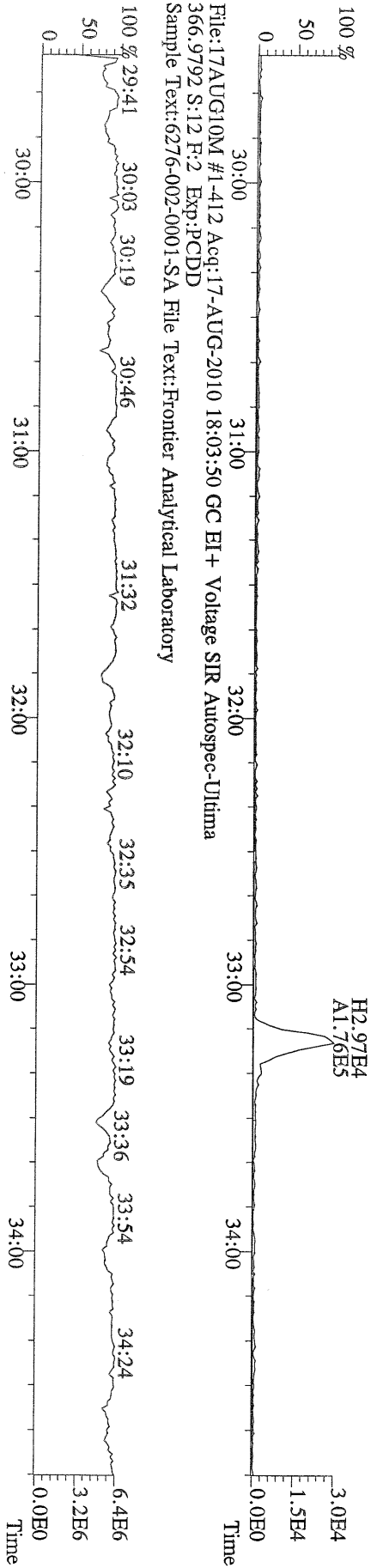
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
333.9339 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



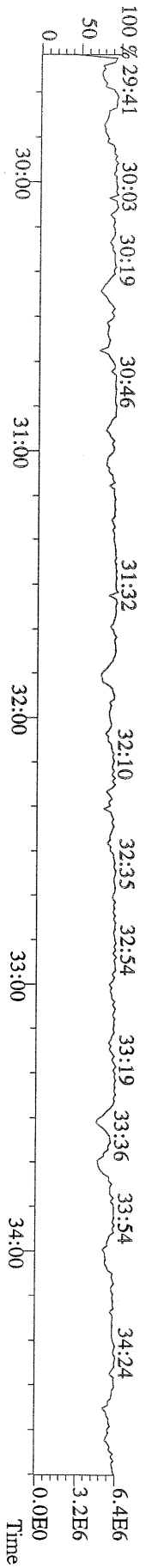
File:17AUG10M #1-412 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



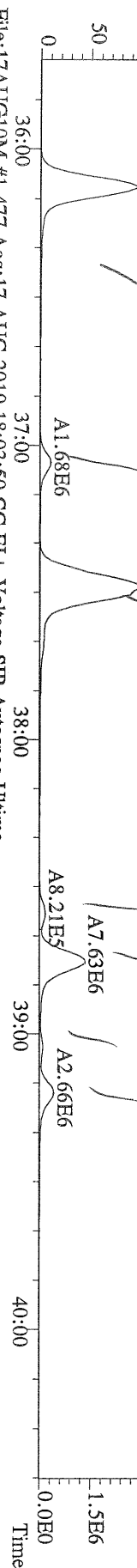
File:17AUG10M #1-412 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



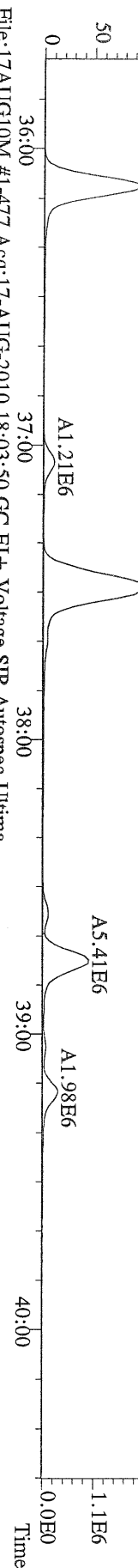
File:17AUG10M #1-412 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:12 F:2 Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



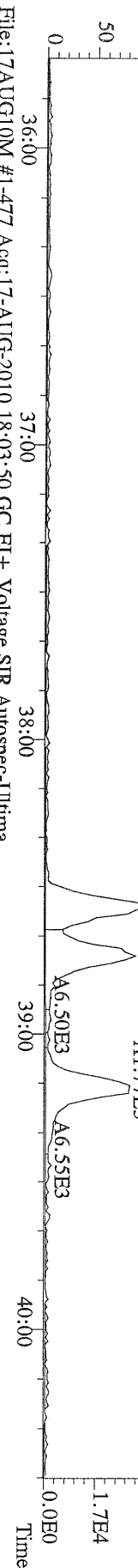
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



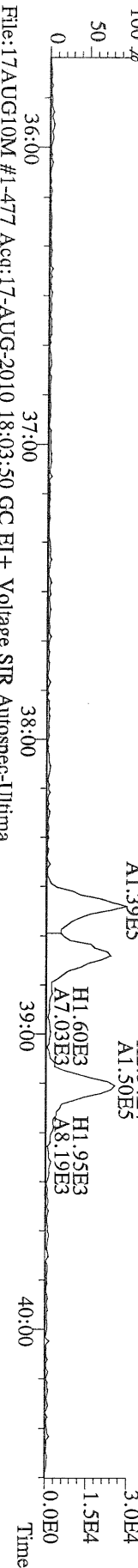
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



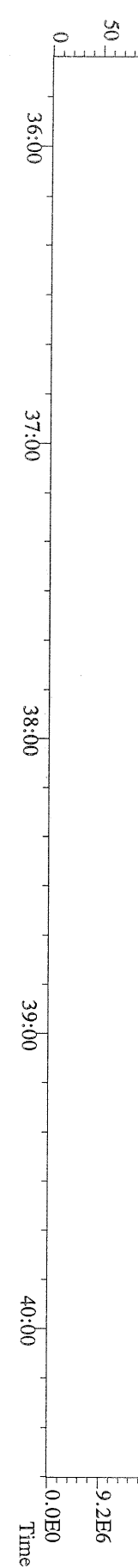
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



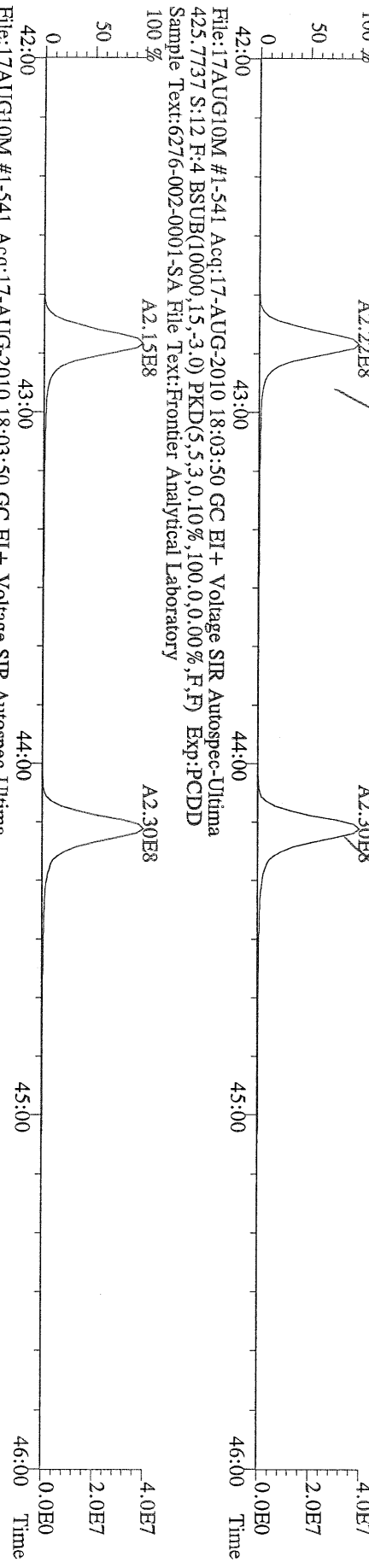
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



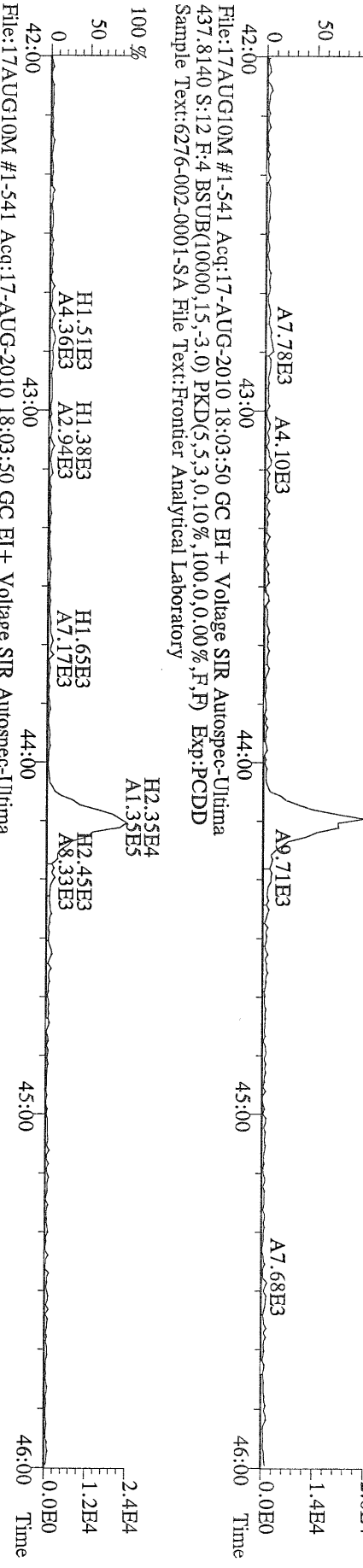
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:12 F:3 Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



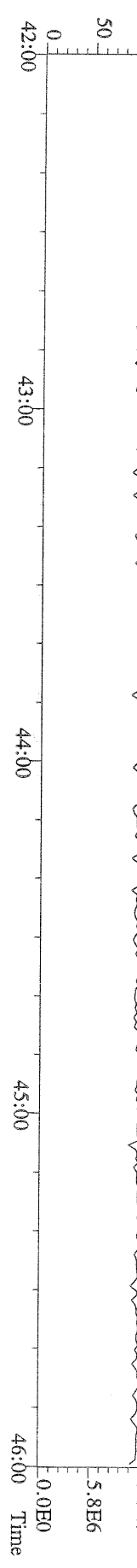
File:17AUG10M #1-541 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultime  
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-541 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultime  
435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory

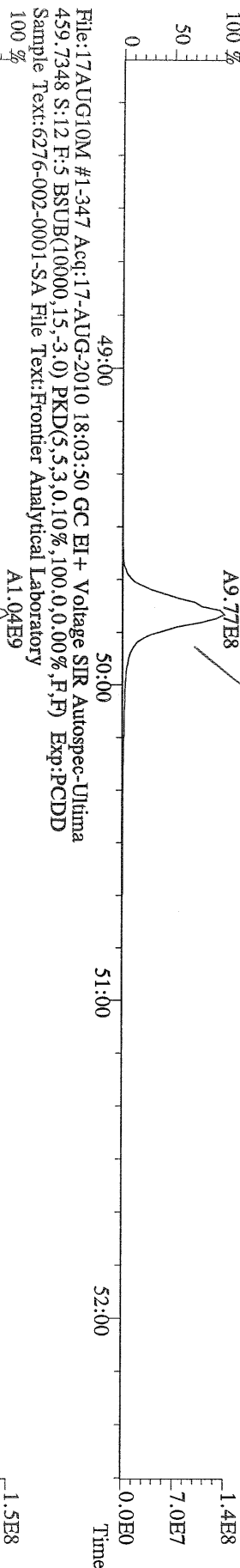


File:17AUG10M #1-541 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultime  
430.9728 S:12 F:4 Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory

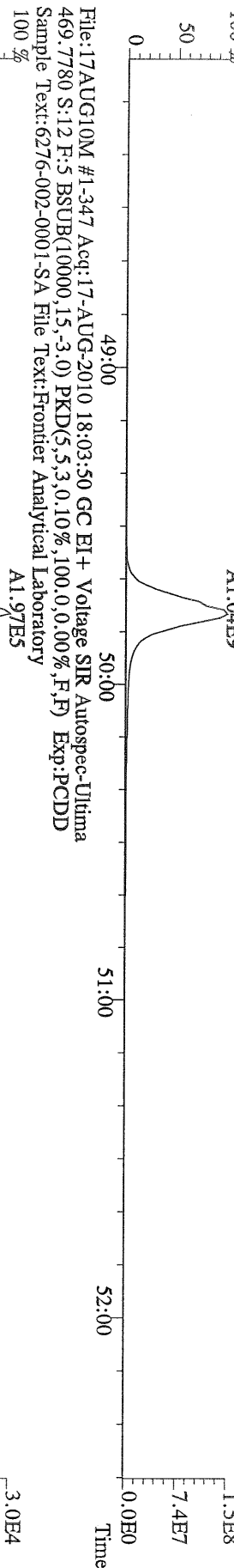




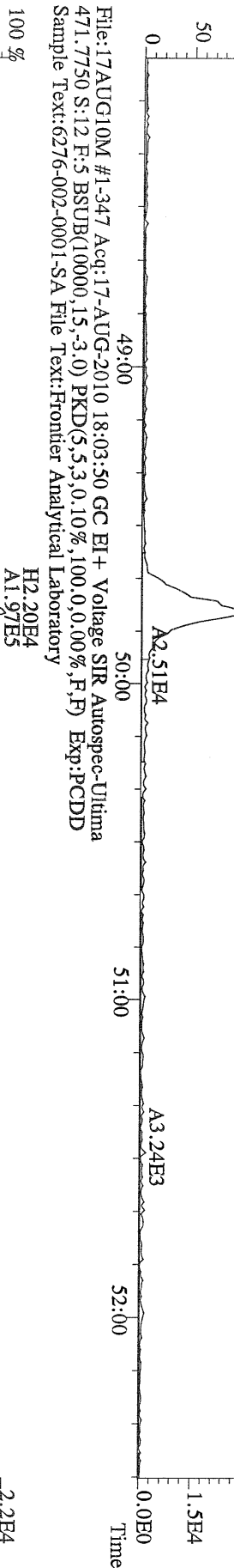
File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



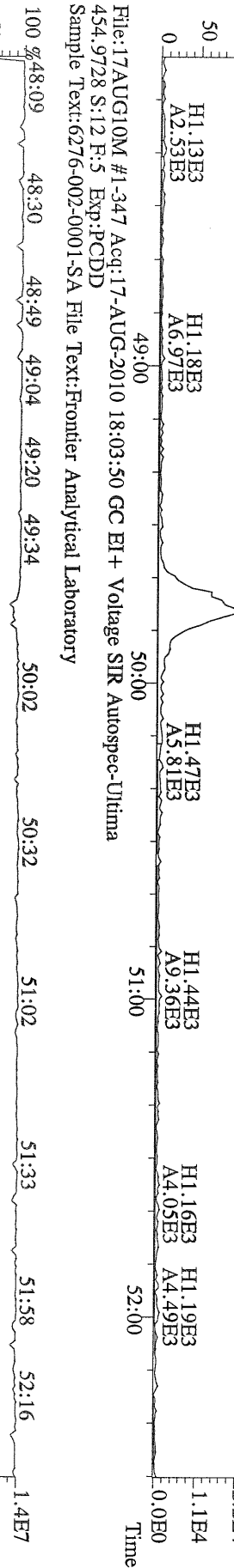
File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 459.7348 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



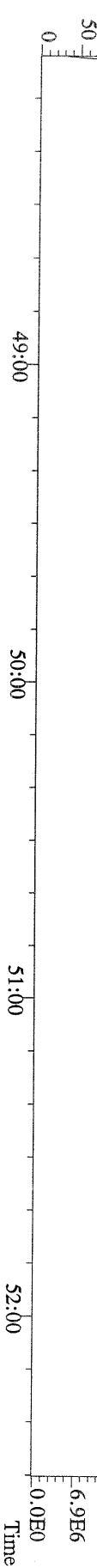
File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



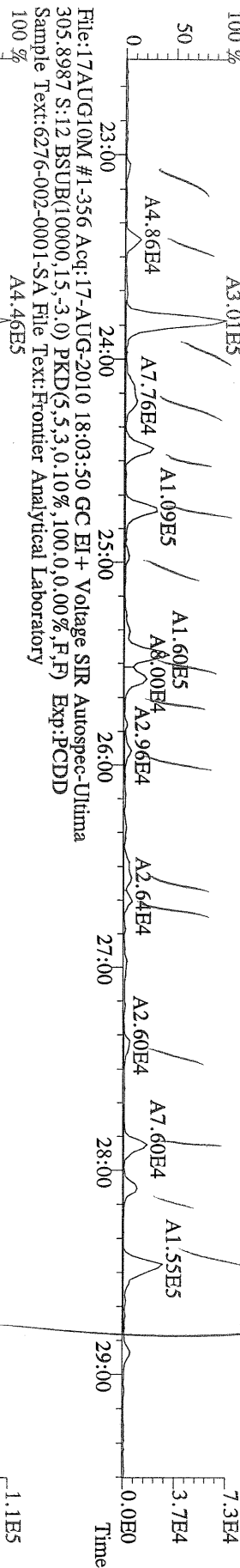
File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 471.7750 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



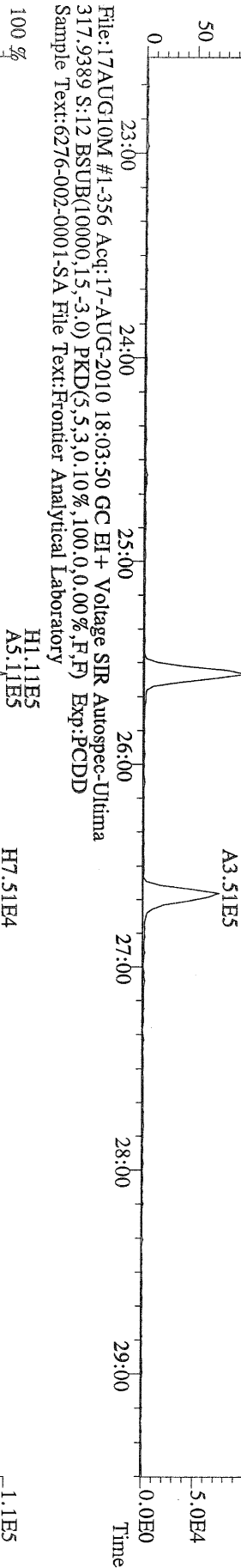
File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 454.9728 S:12 F:5 Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



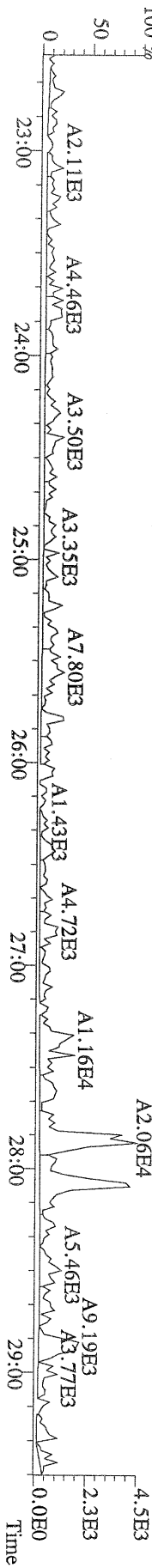
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:12 BSUB(10000,15,-3,0) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



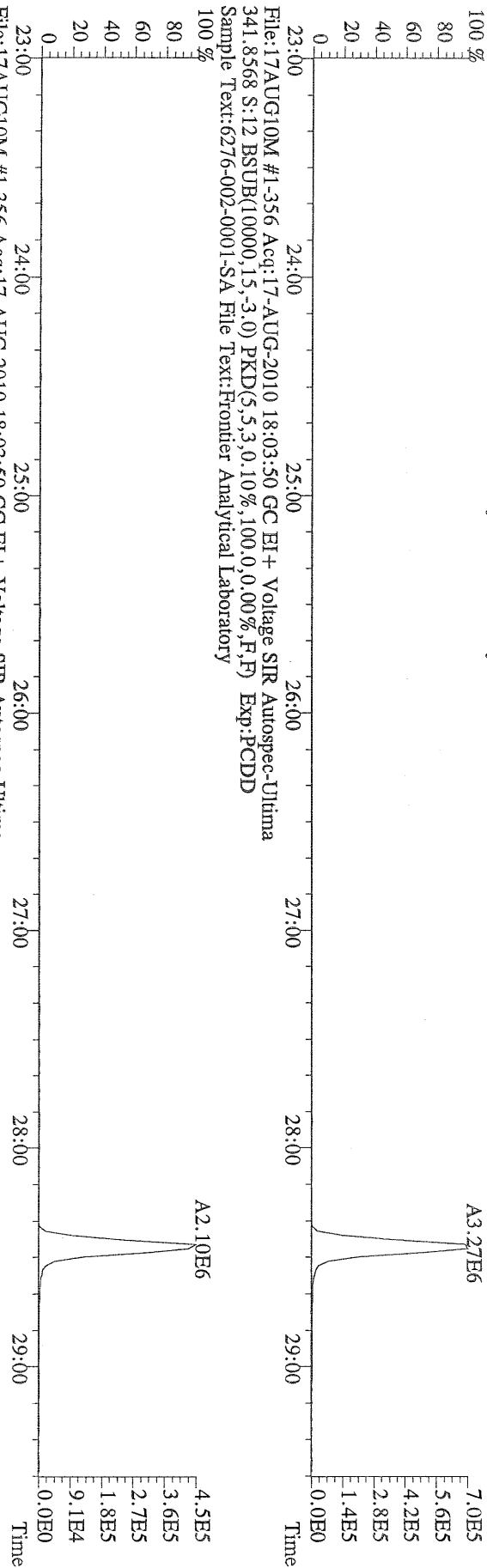
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
315.9419 S:12 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



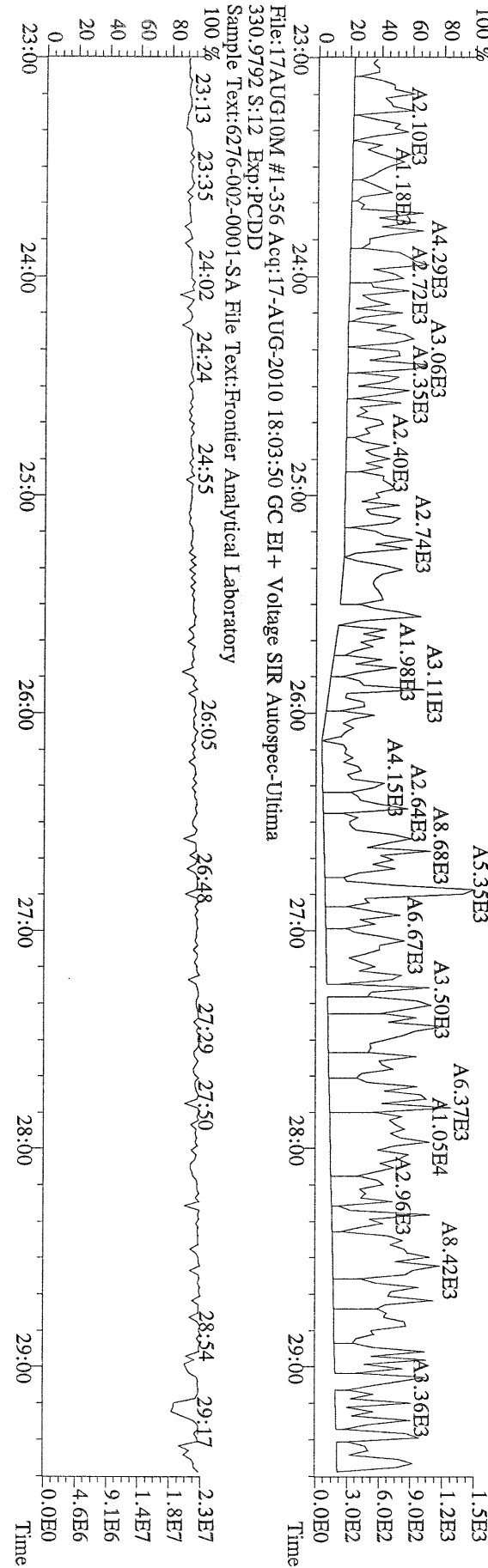
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
375.8364 S:12 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



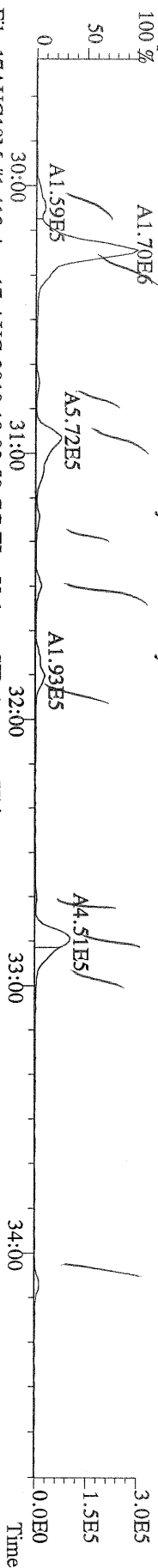
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ulhma  
 339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



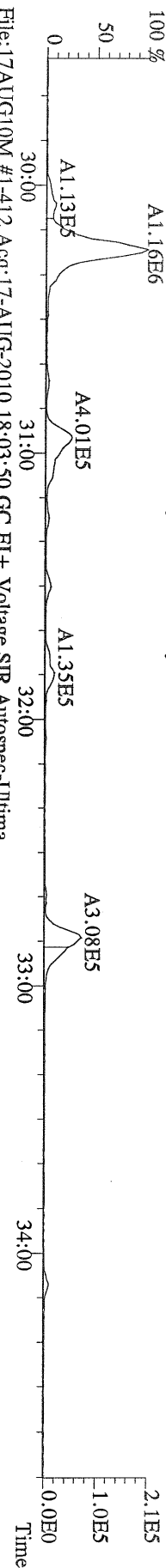
File:17AUG10M #1-356 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ulhma  
 409.7974 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



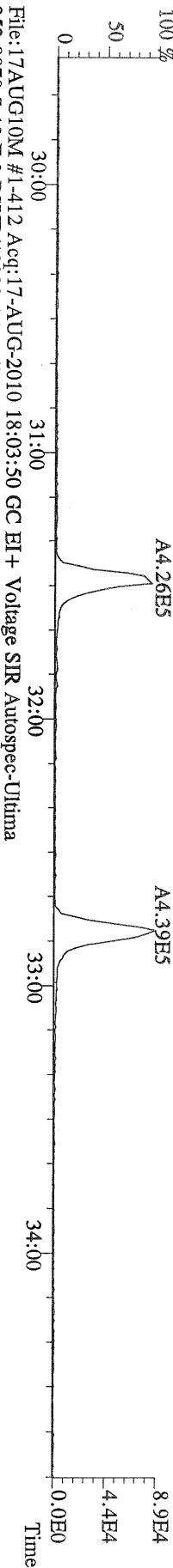
File:17AUG10M #1-412 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



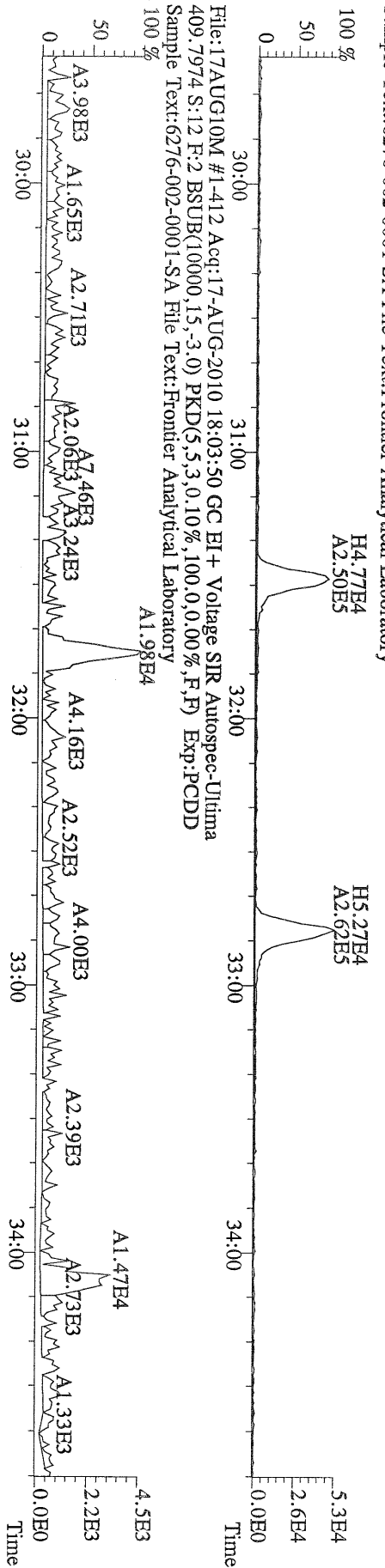
File:17AUG10M #1-412 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



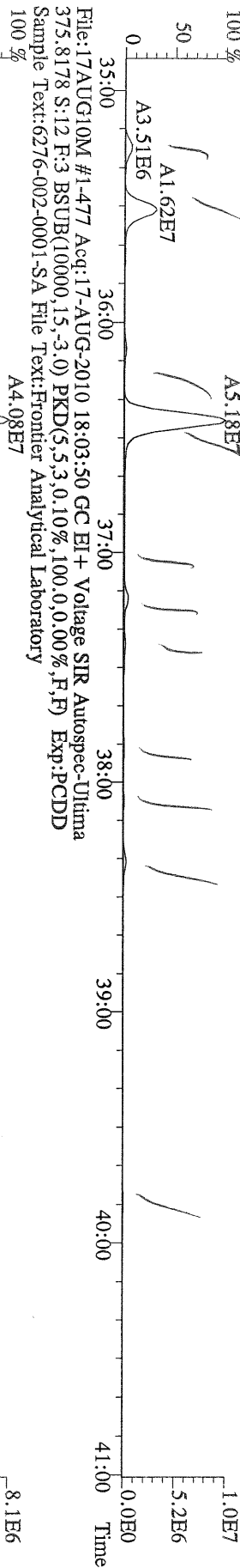
File:17AUG10M #1-412 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



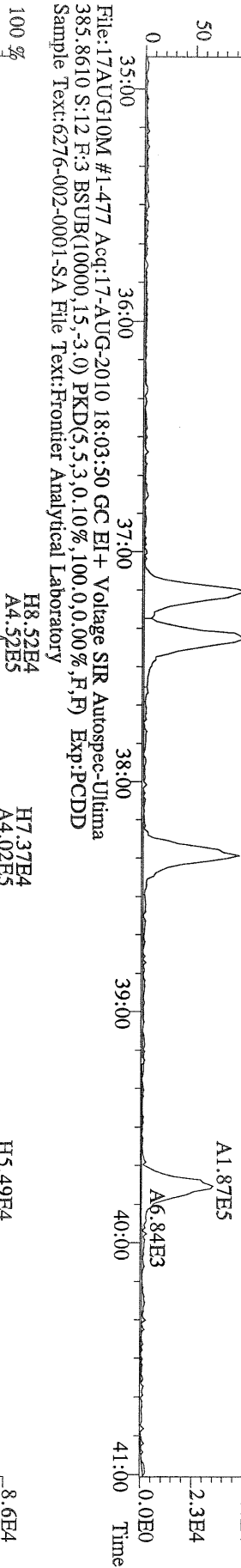
File:17AUG10M #1-412 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



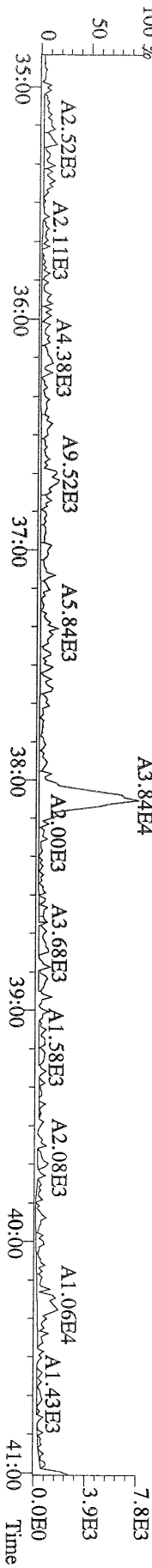
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



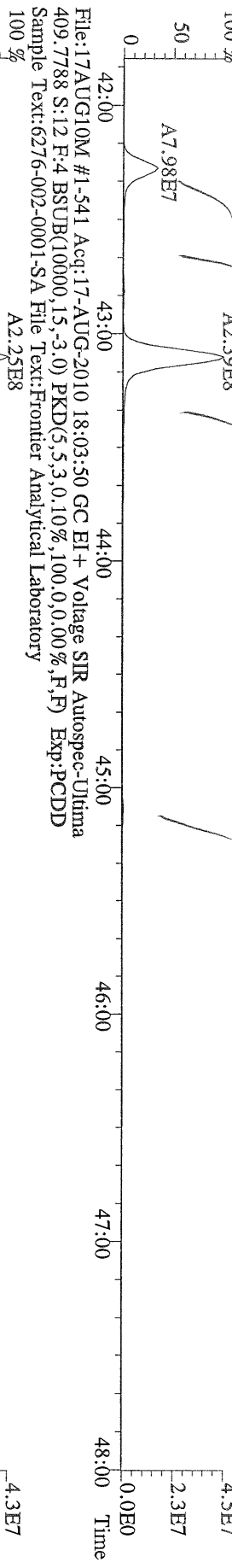
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



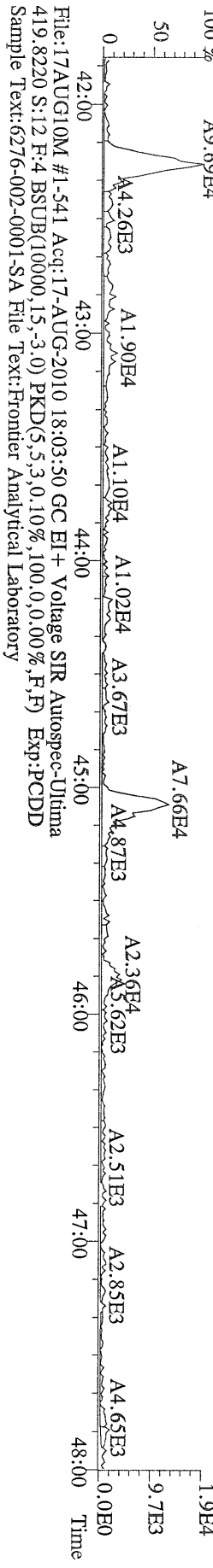
File:17AUG10M #1-477 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



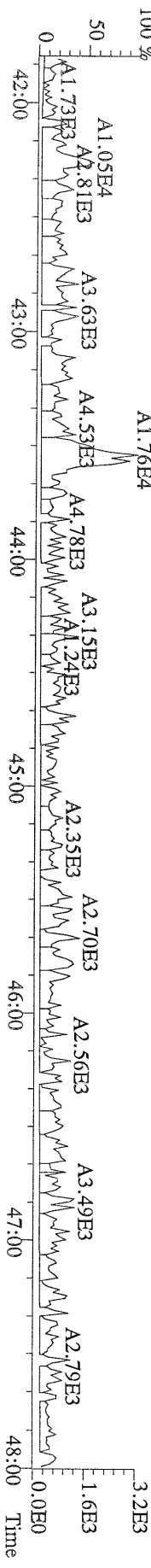
File:17AUG10M #1-541 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultime  
 407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



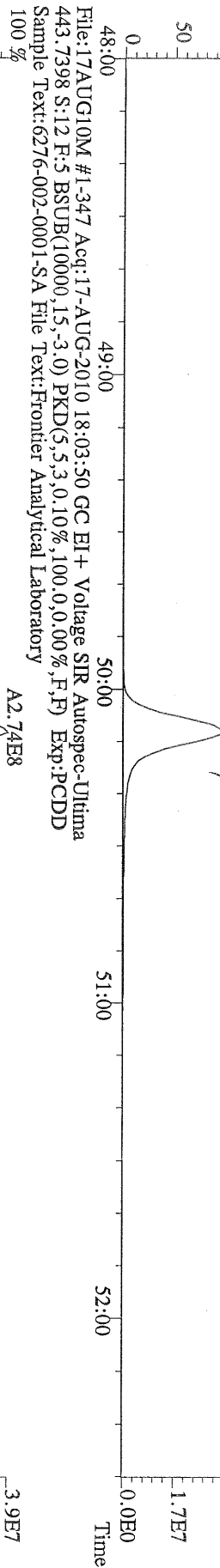
File:17AUG10M #1-541 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultime  
 417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



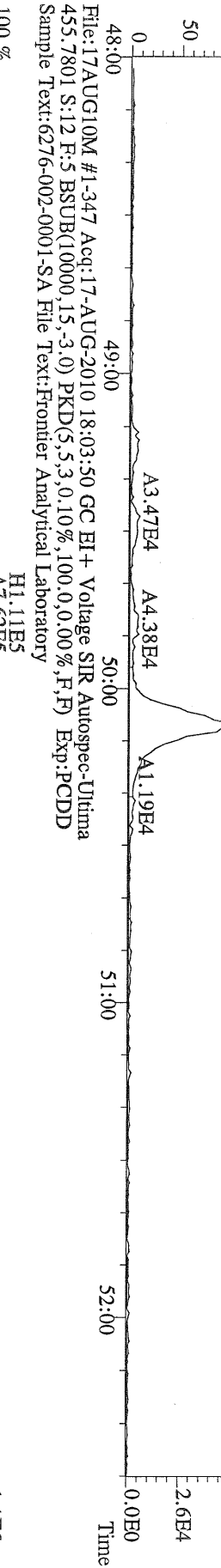
File:17AUG10M #1-541 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultime  
 419.8220 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



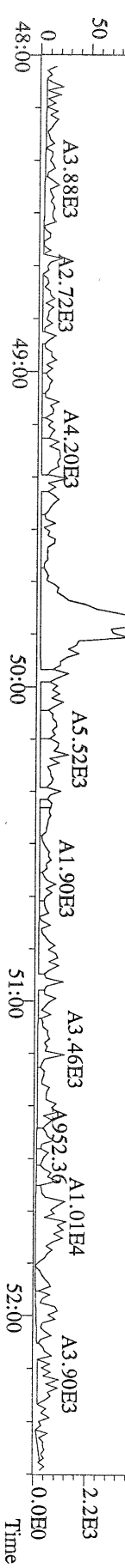
File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 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%) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 18:03:50 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%) Exp:PCDD  
 Sample Text:6276-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6276-002-0001-SA      Filename: 12AUG10A    Sam:5    Acquired: 12-AUG-10 16:31:15    ICal: TCDFFAL1-4-23-10

Client ID: PSB11-1.5-2-073010      ConCal: ST081210A1 EndCal: ST081210A2

Results:      GC Column: DB225    Amount: 2.700

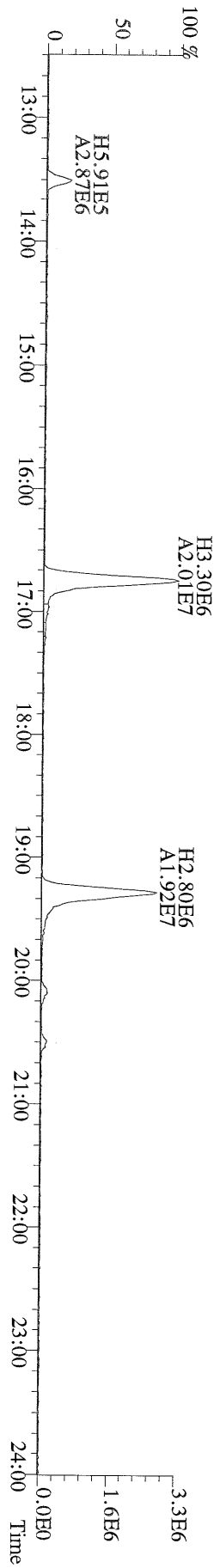
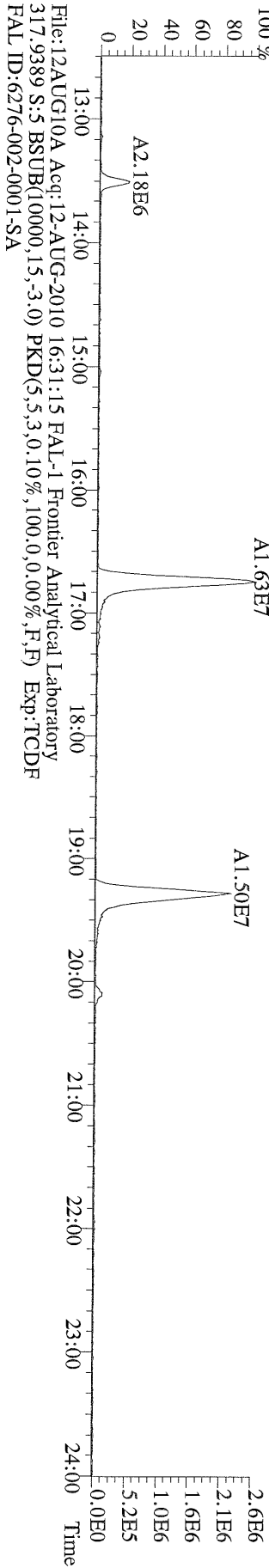
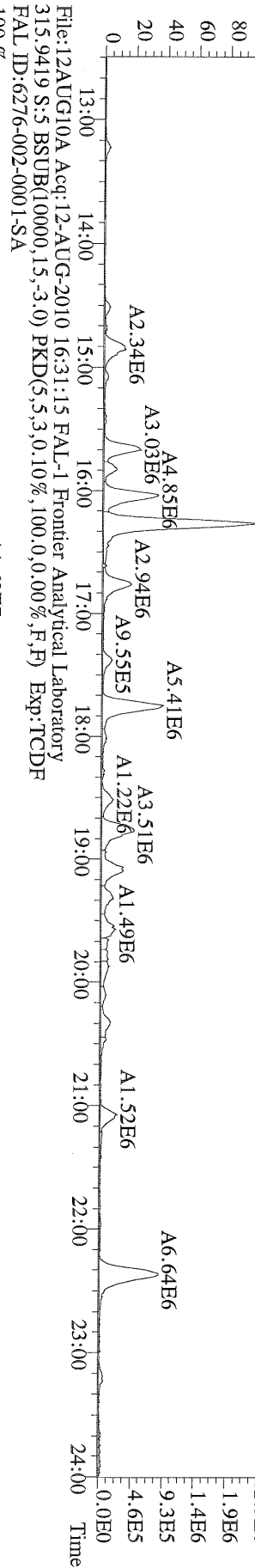
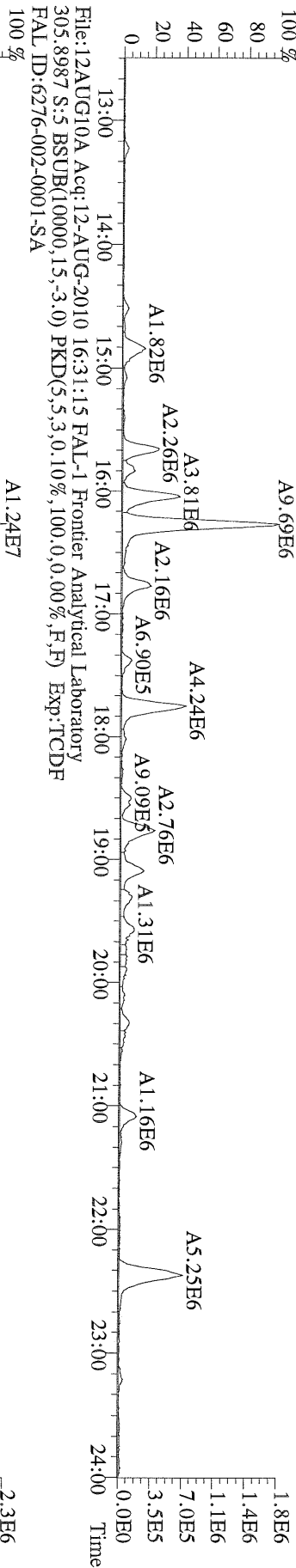
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	#Hom	Rec
2,3,7,8-TCDF	2.35e+06	0.72 y	19:19	1.20	42.2		2.50	-	-	1	
13C-2,3,7,8-TCDF	3.42e+07	0.78 y	19:17	0.94	741						100.0
13C-1,2,3,4-TCDF	3.64e+07	0.81 y	16:45	-	8.20						

Analyst:           d          

Date:           8/13/10



File:12AUG10A Acq:12-AUG-2010 16:31:15 FAL-1 Frontier Analytical Laboratory  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:TCDF  
FAL ID:6276-002-0001-SA



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec
2,3,7,8-TCDD	6.65e+06	0.73 y	27:28	1.04	164		2.50	-	*	
1,2,3,7,8-PeCDD	2.42e+07	1.56 y	33:18	1.05	705		2.50	-	*	
1,2,3,4,7,8-HxCDD	3.67e+07	1.33 y	38:41	1.30	1180		2.50	-	*	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	* 11,500 *		2.50	-	*	
1,2,3,7,8,9-HxCDD	1.19e+08	1.33 y	39:18	1.25	4010		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.35	* 448,000 *		2.50	-	*	
OCDD	*	* n	NotFnd	1.25	* 4,200,000 *		2.50	-	*	
2,3,7,8-TCDF	3.08e+06	0.69 y	26:43	1.62	32.9	ok 05221 F	2.50	-	*	
1,2,3,7,8-PeCDF	3.37e+06	1.43 y	31:34	0.92	74.8		2.50	-	*	
2,3,4,7,8-PeCDF	1.14e+07	1.40 y	32:53	0.94	253		2.50	-	*	
1,2,3,4,7,8-HxCDF	1.09e+08	1.24 y	37:18	0.93	2560		2.50	-	*	
1,2,3,6,7,8-HxCDF	5.15e+07	1.23 y	37:30	0.84	1180		2.50	-	*	
2,3,4,6,7,8-HxCDF	6.54e+07	1.24 y	38:26	0.90	1610		2.50	-	*	
1,2,3,7,8,9-HxCDF	6.77e+06	1.23 y	39:55	0.98	178		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.38	* 114,000 *		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	9.70e+07	1.04 y	45:16	1.62	2750		2.50	-	*	
OCDF	*	* n	NotFnd	0.74	* 543,000 *		2.50	-	*	
13C-2,3,7,8-TCDD	2.96e+07	0.83 y	27:27	0.93	723					95.8
13C-1,2,3,7,8-PeCDD	2.47e+07	1.77 y	33:16	0.81	693					91.8
13C-1,2,3,4,7,8-HxCDD	1.81e+07	1.20 y	38:40	0.95	712					94.3
13C-1,2,3,6,7,8-HxCDD	1.79e+07	1.18 y	38:50	1.00	666					88.3
13C-1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	0.92	*					* 98.3%
13C-OCDD	*	* n	NotFnd	0.63	*					* 88.7%
13C-2,3,7,8-TCDF	4.37e+07	0.86 y	26:42	0.87	751					* 61.2%
13C-1,2,3,7,8-PeCDF	3.71e+07	1.70 y	31:32	0.81	686					99.5
13C-2,3,4,7,8-PeCDF	3.61e+07	1.68 y	32:52	0.75	715					90.9
13C-1,2,3,4,7,8-HxCDF	3.45e+07	0.52 y	37:17	1.74	737					94.7
13C-1,2,3,6,7,8-HxCDF	3.93e+07	0.51 y	37:28	2.17	672					97.7
13C-2,3,4,6,7,8-HxCDF	3.43e+07	0.51 y	38:25	1.82	700					89.0
13C-1,2,3,7,8,9-HxCDF	2.92e+07	0.51 y	39:51	1.49	728					92.8
13C-1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.10	*					96.5
13C-1,2,3,4,7,8,9-HpCDF	1.64e+07	0.42 y	45:14	0.81	747					* 93.2%
13C-OCDF	*	* n	NotFnd	1.19	*					* 93.5%
37Cl-2,3,7,8-TCDD	1.19e+07		27:28	0.93	290					99.0
13C-1,2,3,4-TCDD	3.34e+07	0.83 y	26:52	-	37.1					* 96.1
13C-1,2,3,4-TCDF	5.07e+07	0.88 y	25:36	-	35.9					
13C-1,2,3,7,8,9-HxCDD	2.03e+07	1.18 y	39:17	-	35.6					
Total Tetra-Dioxins	3.78e+07		24:28	1.04	929		2.50	-	*	15
Total Penta-Dioxins	1.82e+08		30:18	1.05	5300		2.50	-	*	10
Total Hexa-Dioxins	2.23e+08		37:10	1.27	7390	74,300 *	2.50	-	*	4
Total Hepta-Dioxins	*		NotFnd	1.35	* 840,000 *		2.50	-	*	0
Total Tetra-Furans	9.72e+07		23:08	1.62	1040	D,M	2.50	-	*	23
1st Fn. Tot Penta-Furans	2.09e+08		28:31	0.93	4640	D,M	2.50	-	*	PeCDF 1
Total Penta-Furans	1.53e+08		30:08	0.93	3400	D,M	2.50	-	*	8040 13
Total Hexa-Furans	4.90e+08		35:21	0.90	11800	D,M,*	2.50	83,500	*	9
Total Hepta-Furans	1.67e+08		42:45	1.48	4930	D,M,*	2.50	460,000	*	2

Analyst: 

Date: 8/10/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 13

File: 09AUG10M

S: 6 I: 1 F: 1

Acquired: 9-AUG-10 19:51:34

Total Concentration: 929

Unnamed Concentration: 765.714

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:28	2.18e+06	2.97e+06	0.73 y	5.15e+06	127	
24:44	1.52e+06	2.04e+06	0.74 y	3.56e+06	87.5	
25:03	6.57e+05	8.76e+05	0.75 y	1.53e+06	37.7	
25:41	1.43e+05	1.80e+05	0.80 y	3.23e+05	7.94	
25:50	6.33e+05	8.36e+05	0.76 y	1.47e+06	36.1	
26:01	3.72e+06	4.97e+06	0.75 y	8.69e+06	214	
26:10	4.15e+05	5.58e+05	0.74 y	9.73e+05	23.9	
26:23	3.69e+05	5.04e+05	0.73 y	8.73e+05	21.5	
26:32	5.35e+05	7.06e+05	0.76 y	1.24e+06	30.5	
26:54	1.95e+06	2.65e+06	0.74 y	4.61e+06	113	
27:12	2.42e+05	3.14e+05	0.77 y	5.55e+05	13.7	
27:28	2.81e+06	3.84e+06	0.73 y	6.65e+06	164	2,3,7,8-TCDD
27:45	7.77e+05	1.05e+06	0.74 y	1.82e+06	44.9	
28:09	4.22e+04	5.74e+04	0.74 y	9.96e+04	2.45	
28:24	9.06e+04	1.33e+05	0.68 y	2.23e+05	5.49	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 13 File: 09AUG10M  
Acquired: 9-AUG-10 19:51:34

S: 6 I: 1 F: 2

Total Concentration: 5300

Unnamed Concentration: 4599.662

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:18	4.24e+07	2.69e+07	1.57 y	6.93e+07	2020	
30:55	3.46e+06	2.17e+06	1.60 y	5.63e+06	164	
31:33	7.62e+06	4.76e+06	1.60 y	1.24e+07	361	
31:46	2.25e+07	1.43e+07	1.57 y	3.68e+07	1070	
31:54	8.59e+06	5.39e+06	1.60 y	1.40e+07	407	
32:12	6.14e+06	3.97e+06	1.55 y	1.01e+07	295	
32:40	1.80e+06	1.18e+06	1.53 y	2.98e+06	86.8	
33:18	1.48e+07	9.44e+06	1.56 y	2.42e+07	705	1,2,3,7,8-PeCDD
33:23	2.52e+06	1.52e+06	1.66 y	4.03e+06	117	
33:52	1.64e+06	1.09e+06	1.50 y	2.73e+06	79.4	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 13 File: 09AUG10M  
Acquired: 9-AUG-10 19:51:34

S: 6 I: 1 F: 3

Total Concentration: 7390

Unnamed Concentration: 2211.648

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
37:10	3.34e+07	2.43e+07	1.38 y	5.77e+07	1900	
38:41	2.10e+07	1.58e+07	1.33 y	3.67e+07	1180	1,2,3,4,7,8-HxCDD
39:08	5.28e+06	4.29e+06	1.23 y	9.56e+06	314	
39:18	6.81e+07	5.13e+07	1.33 y	1.19e+08	4010	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 13

File: 09AUG10M

S: 6 I: 1 F: 4

Acquired: 9-AUG-10 19:51:34

Total Concentration: \*

Unnamed Concentration: \*

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
NotF <sub>1</sub>	*	* * n	*	*	

Totals class: Total Tetra-Furans

Entry #: 42

Run: 13

File: 09AUG10M

S: 6 I: 1 F: 1

Acquired: 9-AUG-10 19:51:34

Total Concentration: 1040

Unnamed Concentration: 1003.851

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:08	1.39e+05	2.08e+05	0.67 y	3.47e+05	3.70	
23:29	1.51e+06	2.26e+06	0.67 y	3.77e+06	40.2	
23:43	5.51e+04	7.64e+04	0.72 y	1.32e+05	1.40	
23:52	1.20e+07	1.80e+07	0.66 y	3.00e+07	320	
24:16	2.21e+06	3.25e+06	0.68 y	5.46e+06	58.2	
24:30	2.80e+06	4.20e+06	0.67 y	7.00e+06	74.6	
24:48	4.28e+06	6.52e+06	0.66 y	1.08e+07	115	
25:01	5.54e+05	6.83e+05	0.81 y	1.24e+06	13.2	
25:23	8.57e+05	1.04e+06	0.82 y	1.90e+06	20.2	
25:30	4.91e+06	7.18e+06	0.68 y	1.21e+07	129	
25:37	1.16e+06	1.51e+06	0.77 y	2.67e+06	28.5	
25:58	6.52e+05	9.22e+05	0.71 y	1.57e+06	16.8	
26:12	3.46e+05	4.78e+05	0.72 y	8.24e+05	8.78	
26:21	3.71e+05	5.17e+05	0.72 y	8.87e+05	9.46	
26:31	4.08e+05	6.18e+05	0.66 y	1.03e+06	10.9	
26:37	7.10e+05	1.02e+06	0.70 y	1.73e+06	18.4	
26:43	1.26e+06	1.82e+06	0.69 y	3.08e+06	32.9	2,3,7,8-TCDF
27:02	8.43e+05	1.18e+06	0.72 y	2.02e+06	21.5	
27:16	9.42e+04	1.22e+05	0.77 y	2.16e+05	2.30	
27:25	2.49e+05	3.48e+05	0.72 y	5.97e+05	6.36	
27:55	5.08e+05	7.67e+05	0.66 y	1.28e+06	13.6	
28:08	3.48e+05	5.16e+05	0.67 y	8.63e+05	9.21	
28:31	3.06e+06	4.64e+06	0.66 y	7.70e+06	82.1	

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

Run: 13      File: 09AUG10M      S: 6 I: 1 F: 1  
Acquired: 9-AUG-10 19:51:34

Total Concentration: 4640      Unnamed Concentration: 4643.857

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:31	1.29e+08	8.08e+07	1.59 y	2.09e+08	4640	



Totals class: Total Penta-Furans

Entry #: 44

Run: 13 File: 09AUG10M S: 6 I: 1 F: 2  
Acquired: 9-AUG-10 19:51:34

Total Concentration: 3400

Unnamed Concentration: 3073.329

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:08	3.96e+06	2.73e+06	1.45 y	6.69e+06	148	
30:18	4.60e+07	3.13e+07	1.47 y	7.73e+07	1720	
30:47	8.84e+05	5.95e+05	1.49 y	1.48e+06	32.8	
31:00	1.67e+07	1.12e+07	1.48 y	2.79e+07	619	
31:18	1.14e+06	8.29e+05	1.37 y	1.97e+06	43.7	
31:34	1.98e+06	1.39e+06	1.43 y	3.37e+06	74.8	1,2,3,7,8-PeCDF
31:54	4.09e+06	2.83e+06	1.44 y	6.92e+06	153	
32:35	8.39e+04	5.19e+04	1.62 y	1.36e+05	3.01	
32:44	6.63e+05	4.64e+05	1.43 y	1.13e+06	25.0	
32:53	6.65e+06	4.76e+06	1.40 y	1.14e+07	253	2,3,4,7,8-PeCDF
32:54	8.47e+06	5.49e+06	1.54 y	1.40e+07	310	
34:10	4.60e+05	3.23e+05	1.42 y	7.83e+05	17.4	
34:17	1.65e+05	1.10e+05	1.50 y	2.75e+05	6.10	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 13 File: 09AUG10M  
Acquired: 9-AUG-10 19:51:34

S: 6 I: 1 F: 3

Total Concentration: 11800

Unnamed Concentration: 6252.229

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:21	1.22e+08	9.88e+07	1.23 y	2.21e+08	5360	
36:13	8.55e+06	6.89e+06	1.24 y	1.54e+07	375	
37:08	7.49e+06	6.14e+06	1.22 y	1.36e+07	331	
37:18	6.04e+07	4.87e+07	1.24 y	1.09e+08	2560	1,2,3,4,7,8-HxCDF
37:30	2.85e+07	2.31e+07	1.23 y	5.15e+07	1180	1,2,3,6,7,8-HxCDF
37:56	2.32e+06	1.83e+06	1.27 y	4.15e+06	101	
38:09	1.79e+06	1.52e+06	1.18 y	3.31e+06	80.5	
38:26	3.62e+07	2.91e+07	1.24 y	6.54e+07	1610	2,3,4,6,7,8-HxCDF
39:55	3.74e+06	3.03e+06	1.23 y	6.77e+06	178	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 13 File: 09AUG10M  
Acquired: 9-AUG-10 19:51:34

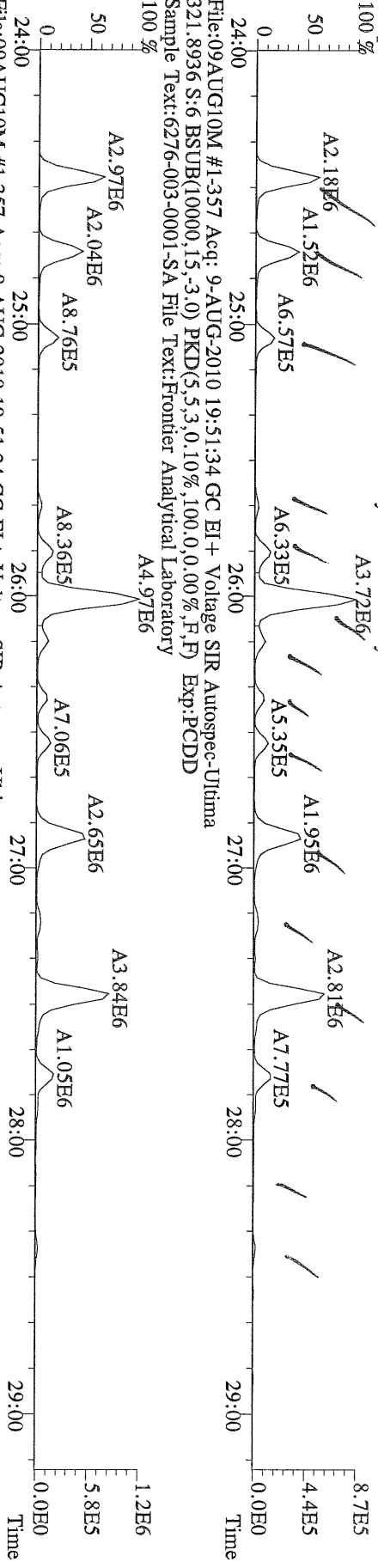
S: 6 I: 1 F: 4

Total Concentration: 4730

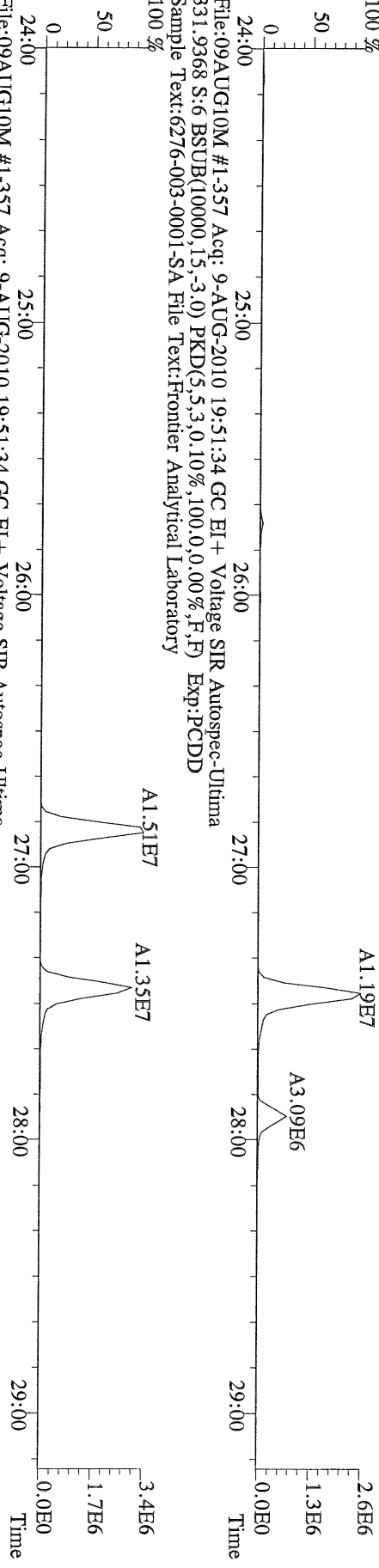
Unnamed Concentration: \*

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:45	3.61e+07	3.43e+07	1.05 y	7.04e+07	1980	<i>g &amp; h</i> <del>1,2,3,4,6,7,8-HpCDF</del>
45:16	4.96e+07	4.74e+07	1.04 y	9.70e+07	2750	1,2,3,4,7,8,9-HpCDF

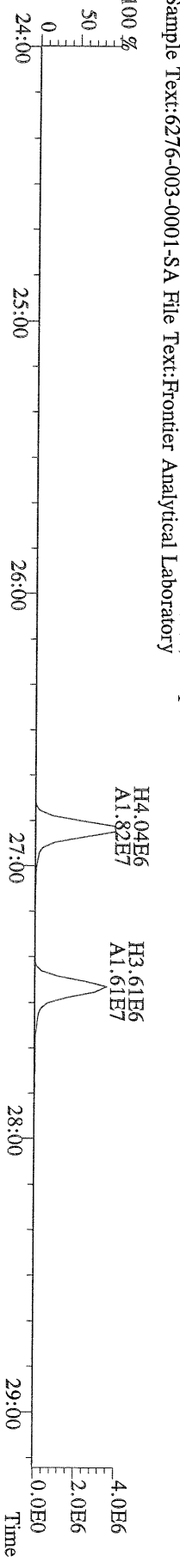
File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



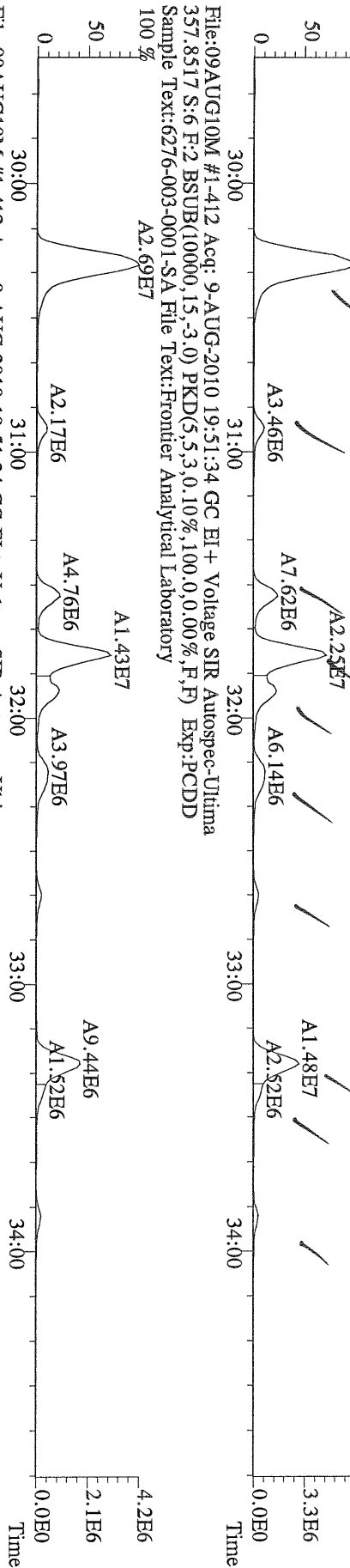
File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



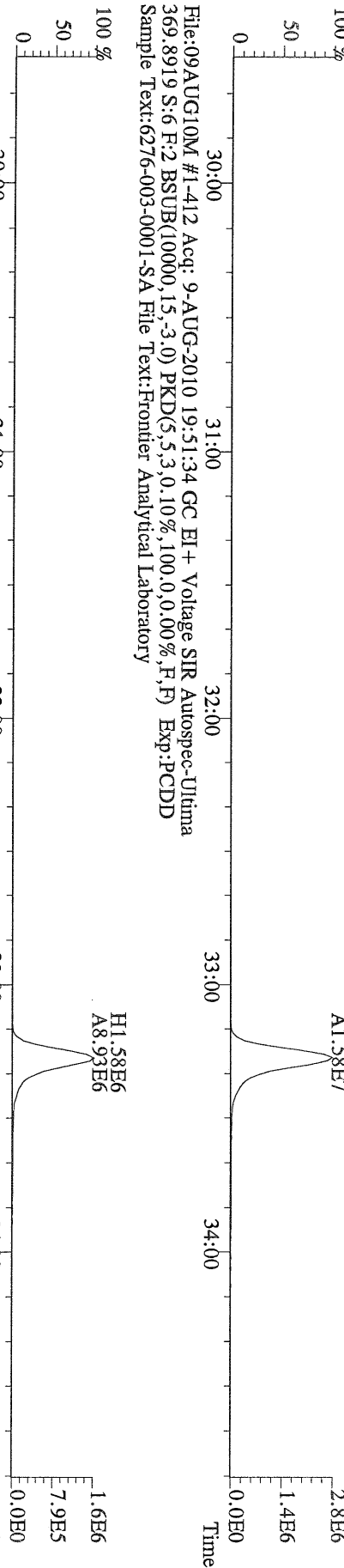
File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



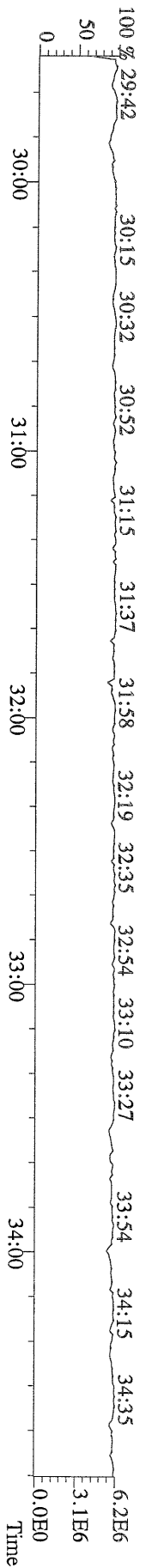
File:09AUG10M #1-412 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



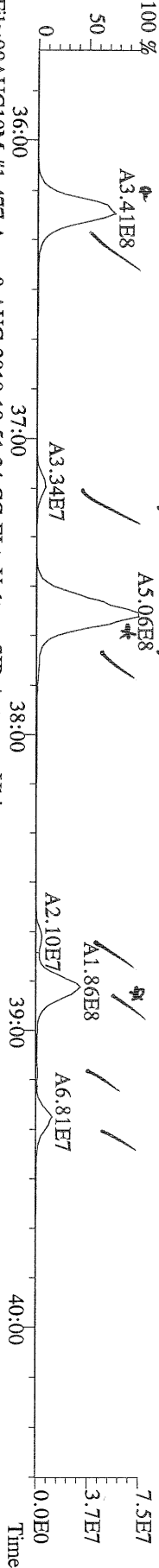
File:09AUG10M #1-412 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



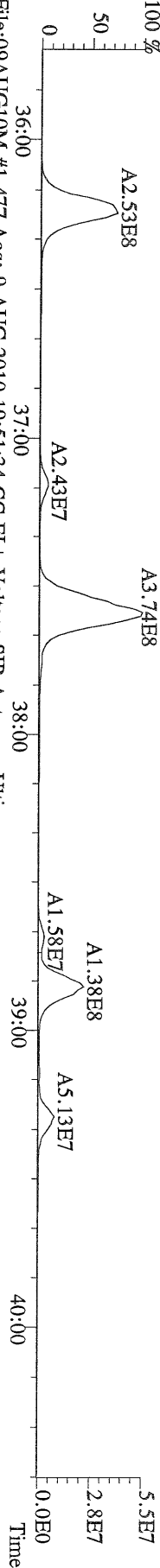
File:09AUG10M #1-412 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:6 F:2 Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



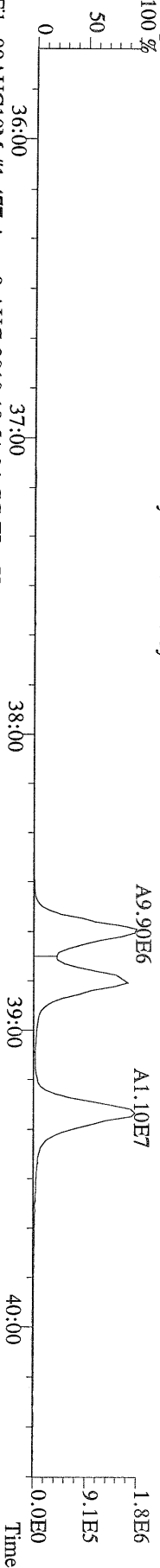
File:09AUG10M #1-477 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



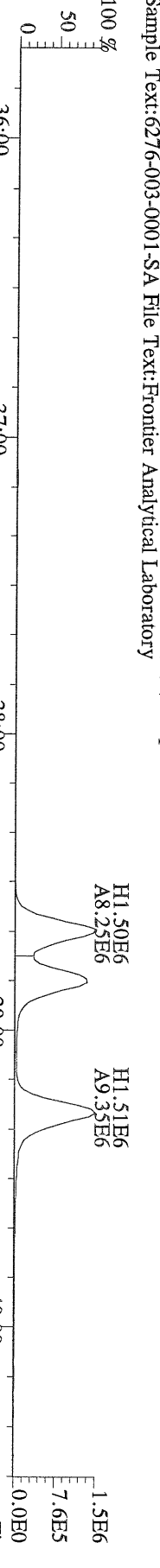
File:09AUG10M #1-477 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



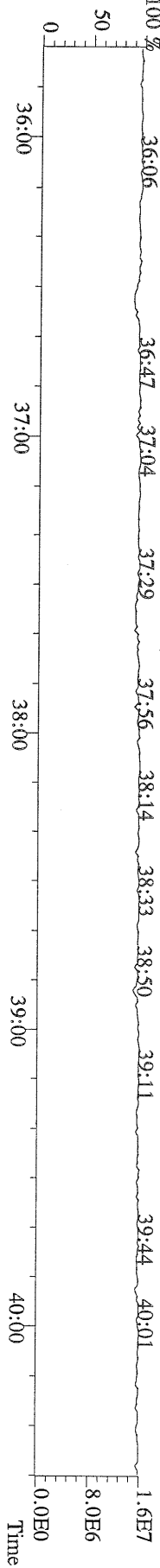
File:09AUG10M #1-477 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



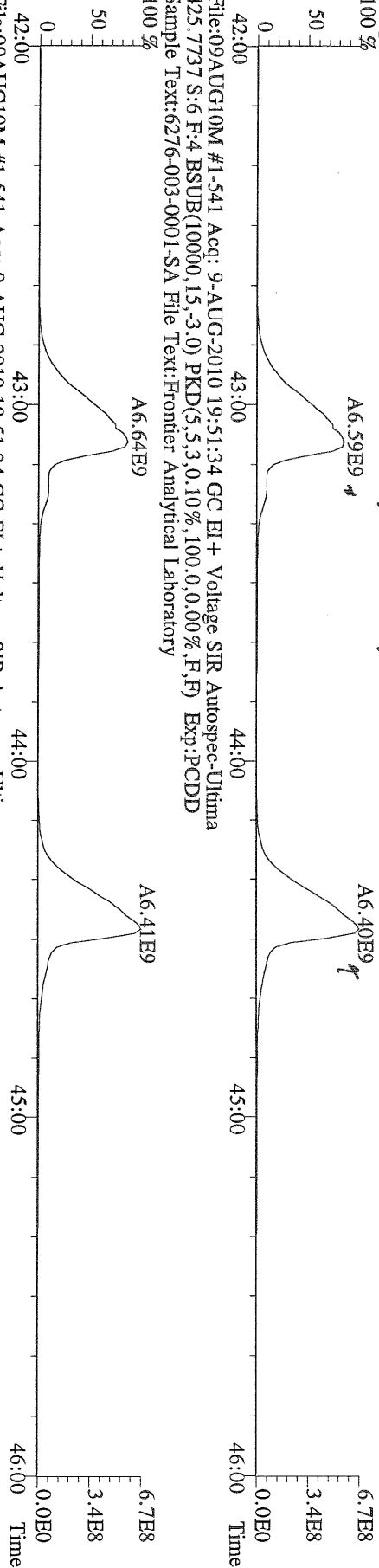
File:09AUG10M #1-477 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



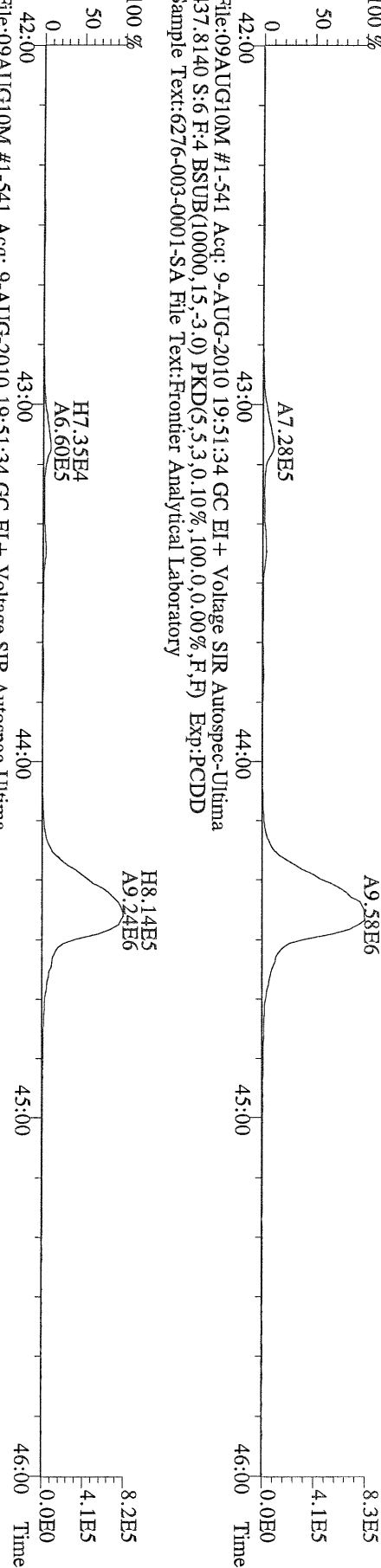
File:09AUG10M #1-477 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:6 F:3 Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



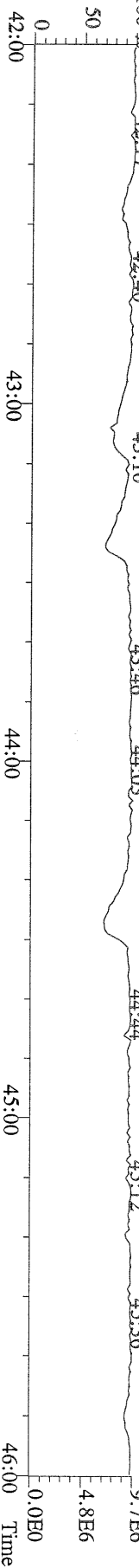
File:09AUG10M #1-541 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



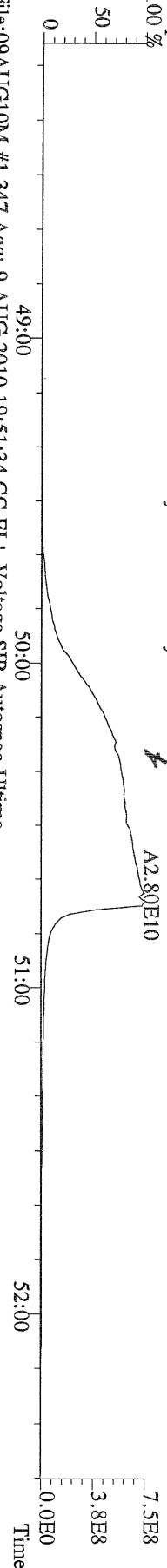
File:09AUG10M #1-541 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



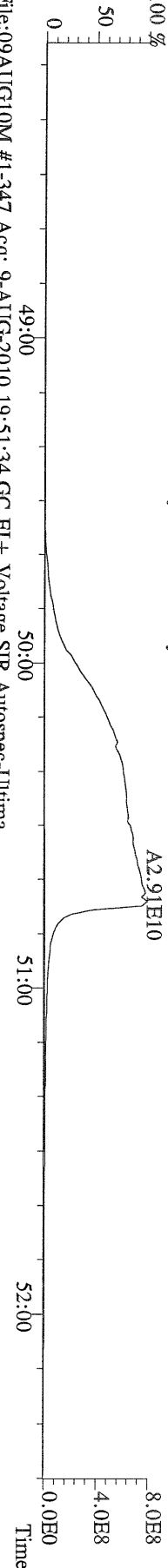
File:09AUG10M #1-541 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:6 F:4 Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



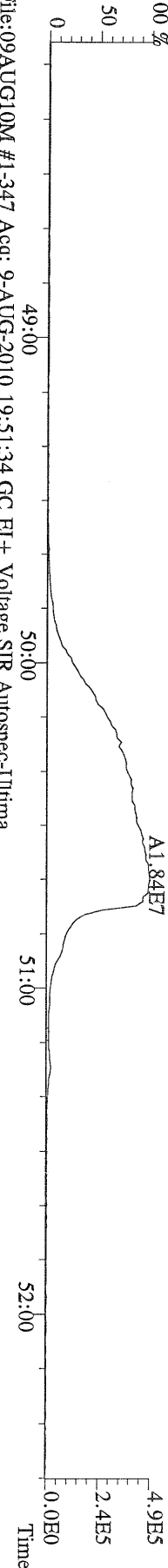
File:09AUG10M #1-347 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



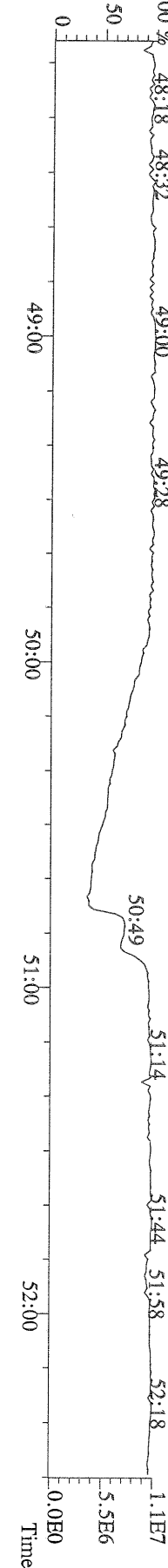
File:09AUG10M #1-347 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
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  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

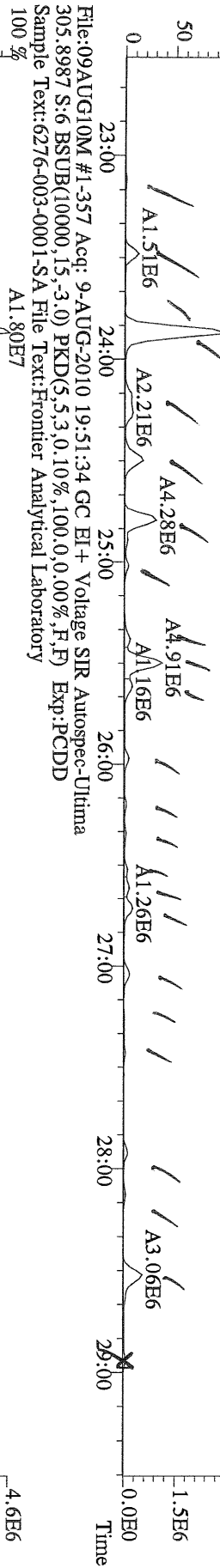


File:09AUG10M #1-347 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:6 F:5 Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

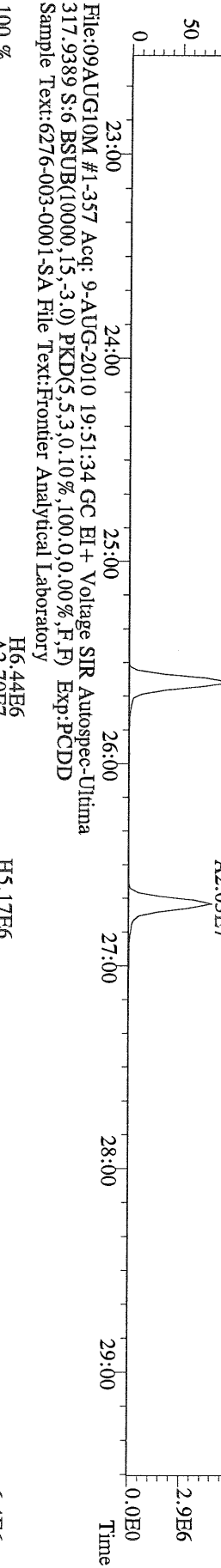




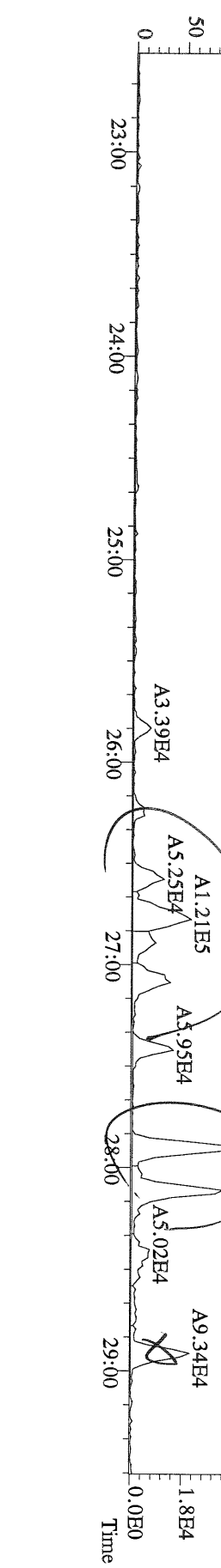
File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Utima  
 303.9016 S:6 BSUB(10000,15,-3.0) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



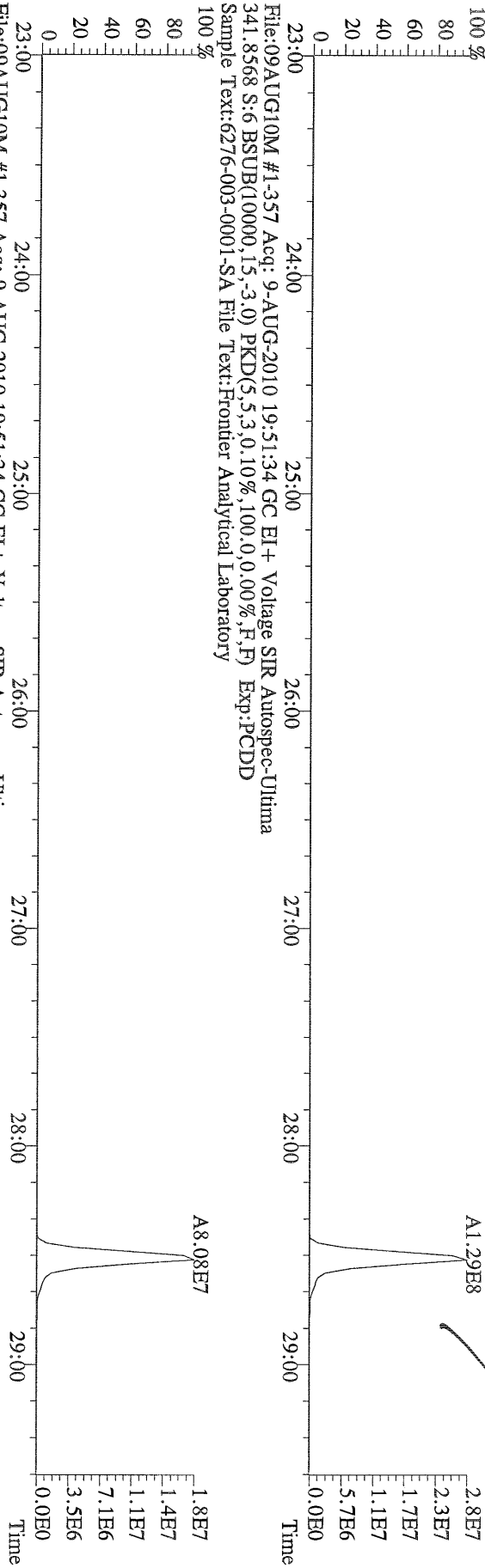
File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Utima  
 315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



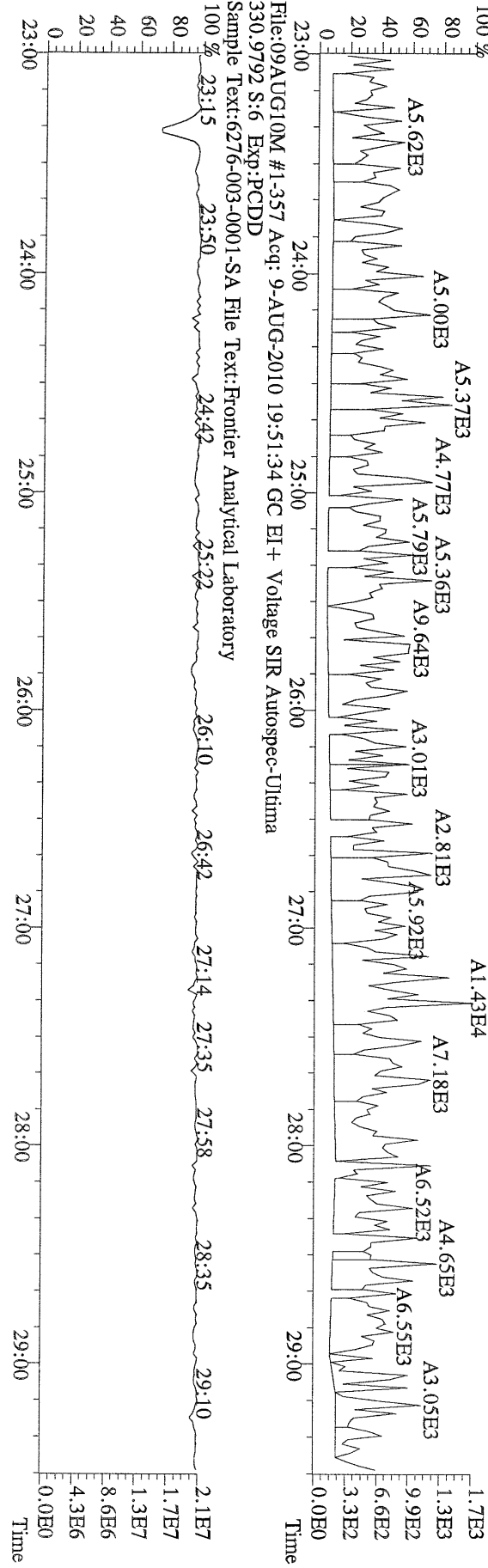
File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Utima  
 375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

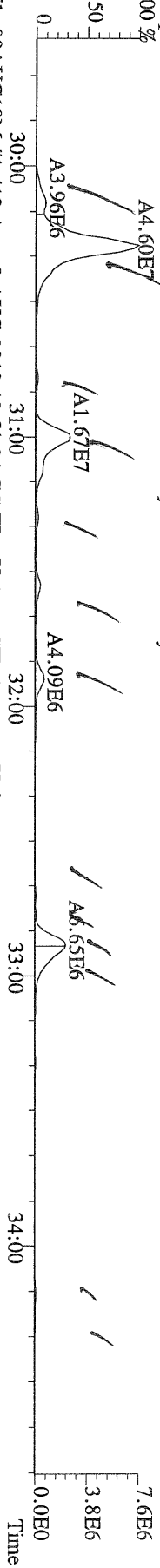


File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

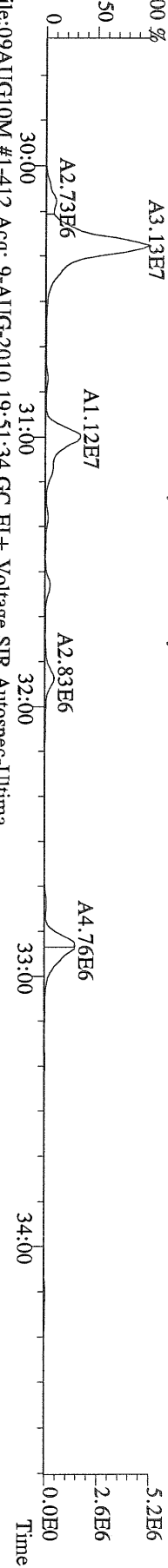


File:09AUG10M #1-357 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:6 Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

File:09AUG10M #1-412 Acq: 9-AUG-2010 19:51:34 GC EI + Voltage SIR Autospec-Utima  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



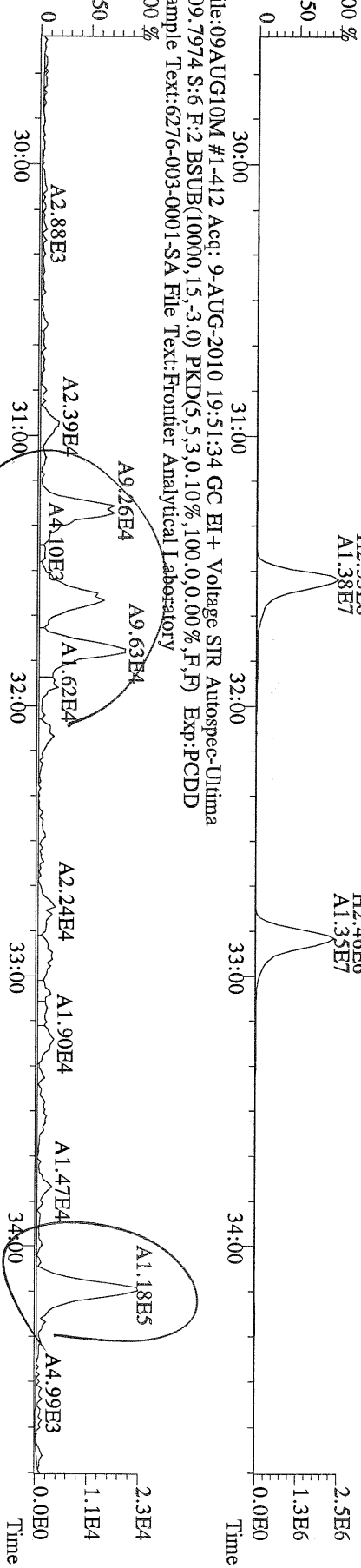
File:09AUG10M #1-412 Acq: 9-AUG-2010 19:51:34 GC EI + Voltage SIR Autospec-Utima  
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



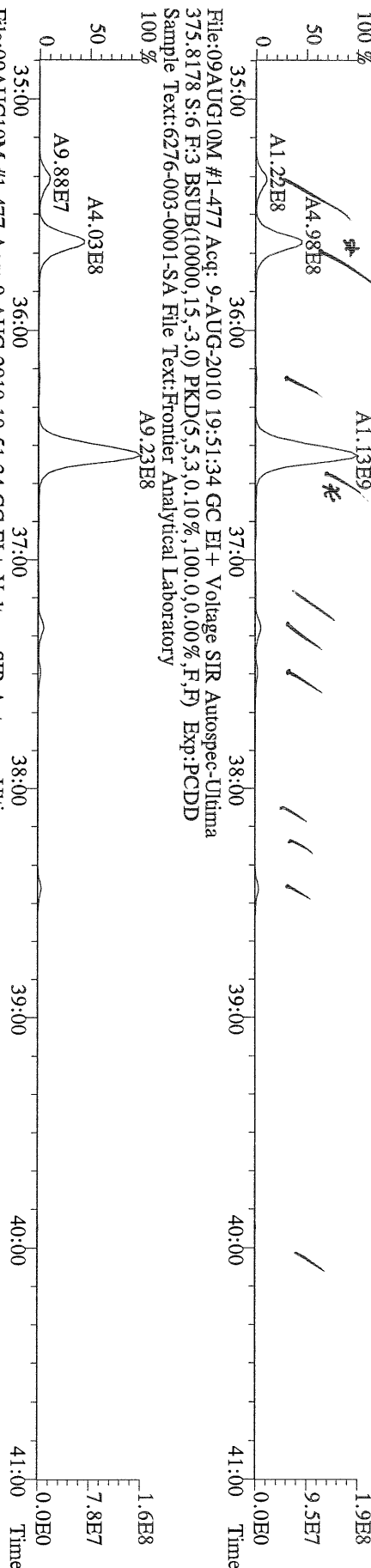
File:09AUG10M #1-412 Acq: 9-AUG-2010 19:51:34 GC EI + Voltage SIR Autospec-Utima  
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



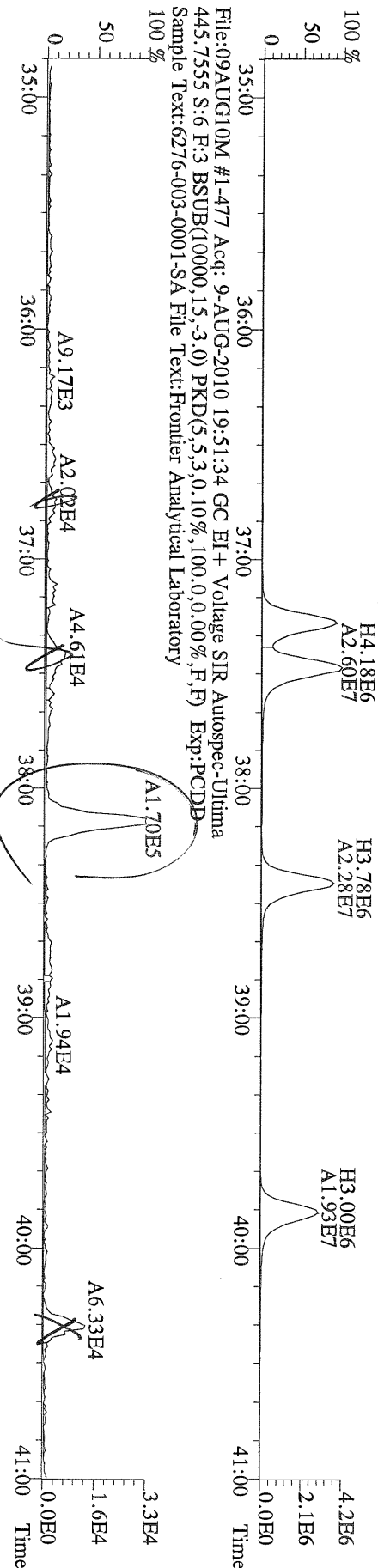
File:09AUG10M #1-412 Acq: 9-AUG-2010 19:51:34 GC EI + Voltage SIR Autospec-Utima  
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



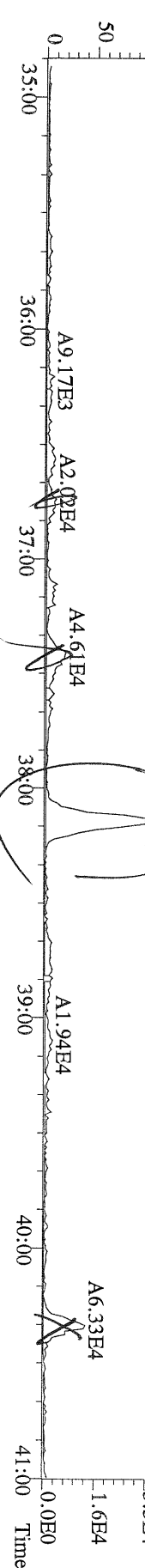
File:09AUG10M #1-477 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



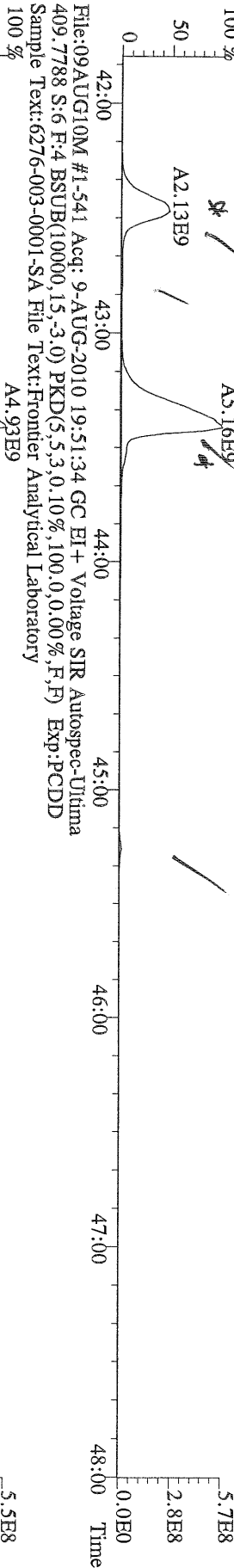
File:09AUG10M #1-477 Acq: 9-AUG-2010 19:51:34 GC EI+ Voltage SIR Autospec-Ultima  
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



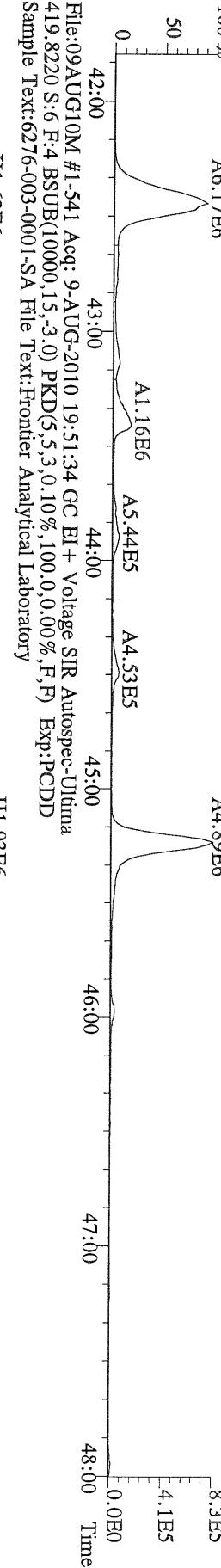
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445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



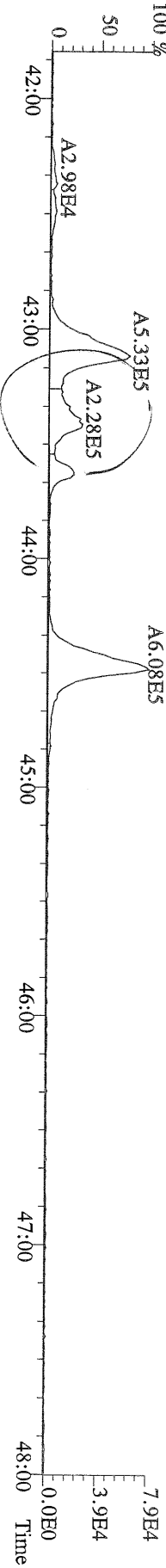
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



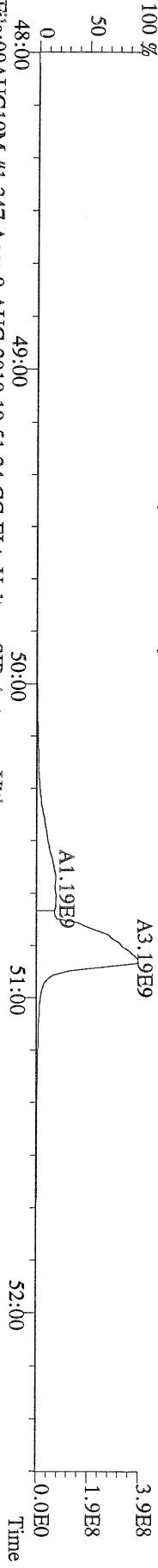
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417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



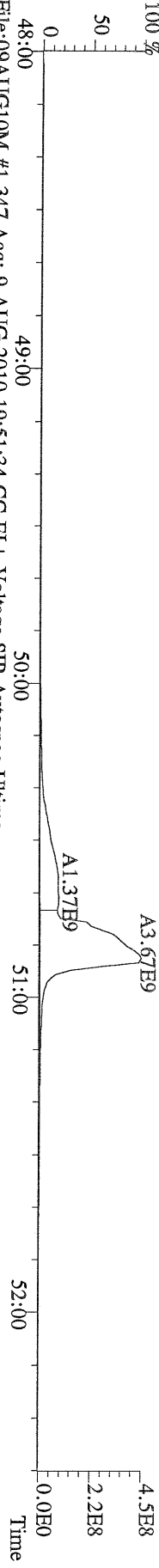
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Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



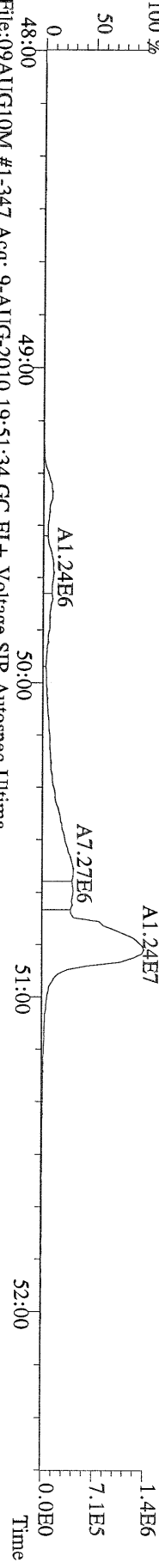
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441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



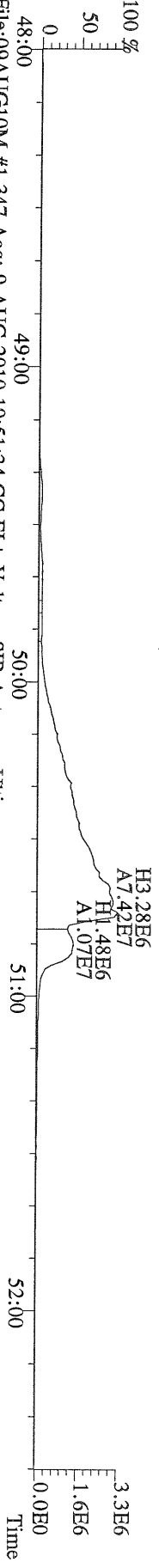
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443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



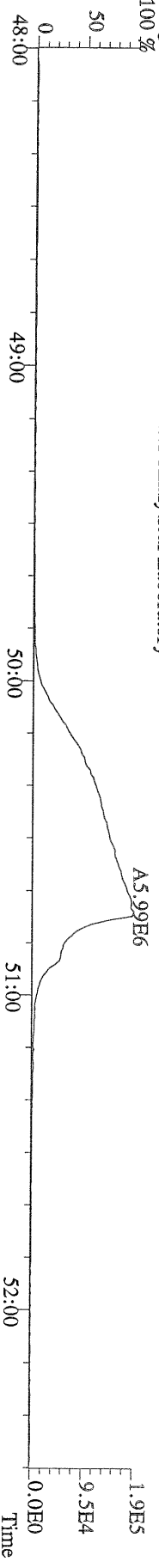
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453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 19:51:34 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:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 19:51:34 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:6276-003-0001-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	1.04	*		2.50	-	-	*	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	5.23e+06	1.40 y	38:45	1.28	11500		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.81e+08	1.03 y	44:11	1.35	448000		2.50	-	-	*	
OCDD	7.56e+08	0.94 y	49:44	1.25	4280000		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	-	-	*	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	-	-	*	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	5.86e+07	1.07 y	42:15	1.38	114000		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	-	-	*	
OCDF	1.77e+08	0.87 y	50:07	0.74	592000		2.50	-	-	*	
13C-2,3,7,8-TCDD	*	* n	NotFnd	0.93	*					*	
13C-1,2,3,7,8-PeCDD	*	* n	NotFnd	0.81	*					*	
13C-1,2,3,4,7,8-HxCDD	2.69e+05	1.29 y	38:33	0.95	779					103	
13C-1,2,3,6,7,8-HxCDD	2.70e+05	1.13 y	38:43	1.00	742					98.3	
13C-1,2,3,4,6,7,8-HpCDD	2.25e+05	0.97 y	44:09	0.92	670					88.7	
13C-OCDD	2.13e+05	0.95 y	49:43	0.63	923					61.2	
13C-2,3,7,8-TCDF	*	* n	NotFnd	0.87	*					*	
13C-1,2,3,7,8-PeCDF	*	* n	NotFnd	0.81	*					*	
13C-2,3,4,7,8-PeCDF	*	* n	NotFnd	0.75	*					*	
13C-1,2,3,4,7,8-HxCDF	5.93e+05	0.56 y	37:10	1.74	935					124	
13C-1,2,3,6,7,8-HxCDF	6.49e+05	0.58 y	37:22	2.17	821					109	
13C-2,3,4,6,7,8-HxCDF	5.73e+05	0.54 y	38:18	1.82	865					115	
13C-1,2,3,7,8,9-HxCDF	4.64e+05	0.57 y	39:44	1.49	855					113	
13C-1,2,3,4,6,7,8-HpCDF	2.82e+05	0.46 y	42:15	1.10	703					93.2	
13C-1,2,3,4,7,8,9-HpCDF	2.08e+05	0.44 y	45:04	0.81	699					92.6	
13C-OCDF	6.11e+05	0.91 y	50:05	1.19	1410					93.5	
37Cl-2,3,7,8-TCDD	*		NotFnd	0.93	*					*	
13C-1,2,3,4-TCDD	*	* n	NotFnd	-	*						
13C-1,2,3,4-TCDF	*	* n	NotFnd	-	*						
13C-1,2,3,7,8,9-HxCDD	2.76e+05	1.18 y	39:10	-	0.482						
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	-	-	*	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	-	-	*	0
Total Hexa-Dioxins	3.04e+07		36:07	1.27	66900		2.50	-	-	*	3
Total Hepta-Dioxins	3.55e+08		42:47	1.35	880000		2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.62	*		2.50	-	-	*	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.93	*		2.50	-	-	*	PeCDF 0
Total Penta-Furans	*		NotFnd	0.93	*		2.50	-	-	*	0.00 0
Total Hexa-Furans	4.90e+07		35:30	0.90	71700		2.50	-	-	*	2
Total Hepta-Furans	2.23e+08		42:15	1.48	455000		2.50	-	-	*	2

Analyst: J

Date: 8/18/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 20

File: 17AUG10M

S: 13 I: 1 F: 3

Acquired: 17-AUG-10 18:59:16

Total Concentration: 66900

Unnamed Concentration: 55447.943

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:07	6.11e+06	4.39e+06	1.39 y	1.05e+07	23100	
37:28	8.61e+06	6.10e+06	1.41 y	1.47e+07	32400	
38:45	3.05e+06	2.18e+06	1.40 y	5.23e+06	11500	1,2,3,6,7,8-HxCDD



Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 20

File: 17AUG10M

S: 13 I: 1 F: 4

Acquired: 17-AUG-10 18:59:16

Total Concentration: 880000

Unnamed Concentration: 431099.330

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	8.79e+07	8.62e+07	1.02 y	1.74e+08	431000	
44:11	9.19e+07	8.91e+07	1.03 y	1.81e+08	448000	1,2,3,4,6,7,8-HpCDD

Totals class: Total Hexa-Furans

Entry #: 45

Run: 20

File: 17AUG10M

S: 13 I: 1 F: 3

Acquired: 17-AUG-10 18:59:16

Total Concentration: 71700

Unnamed Concentration: 71749.085

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:30	8.25e+06	6.46e+06	1.28 y	1.47e+07	21500	
36:24	1.92e+07	1.51e+07	1.27 y	3.43e+07	50200	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 20

File: 17AUG10M

S: 13 I: 1 F: 4

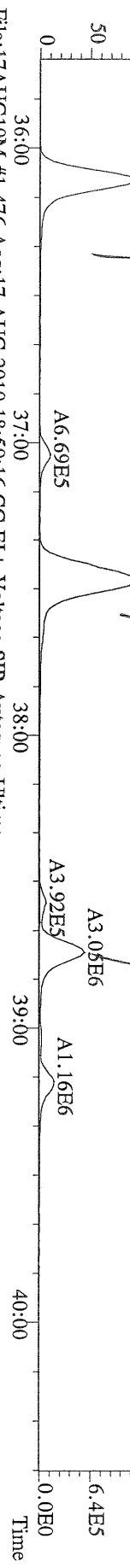
Acquired: 17-AUG-10 18:59:16

Total Concentration: 455000

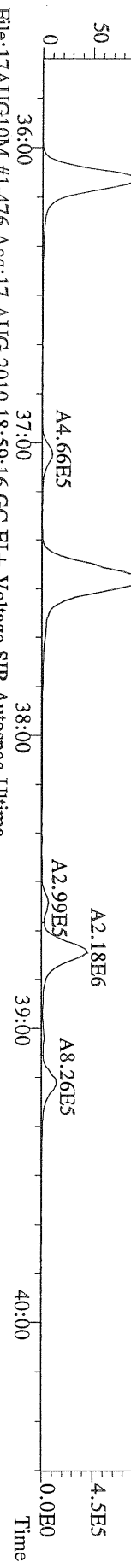
Unnamed Concentration: 341315.002

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:15	3.03e+07	2.83e+07	1.07 y	5.86e+07	114000	1,2,3,4,6,7,8-HpCDF
43:05	8.48e+07	7.95e+07	1.07 y	1.64e+08	341000	

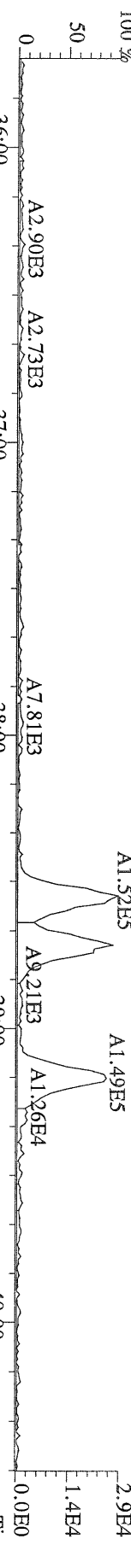
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 389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



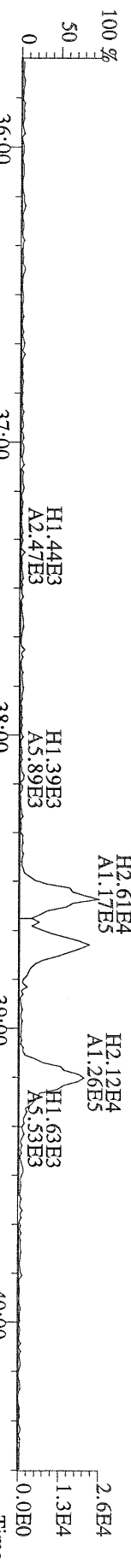
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 391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



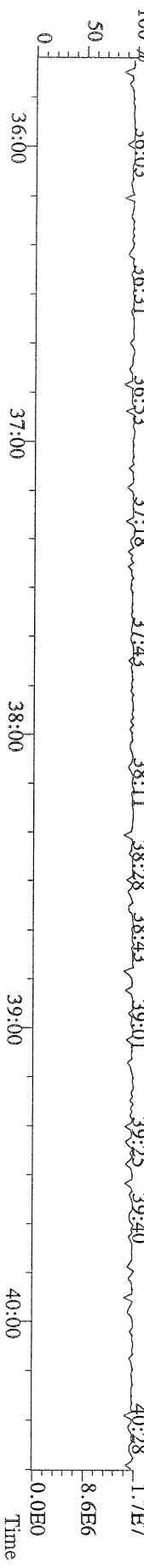
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 401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



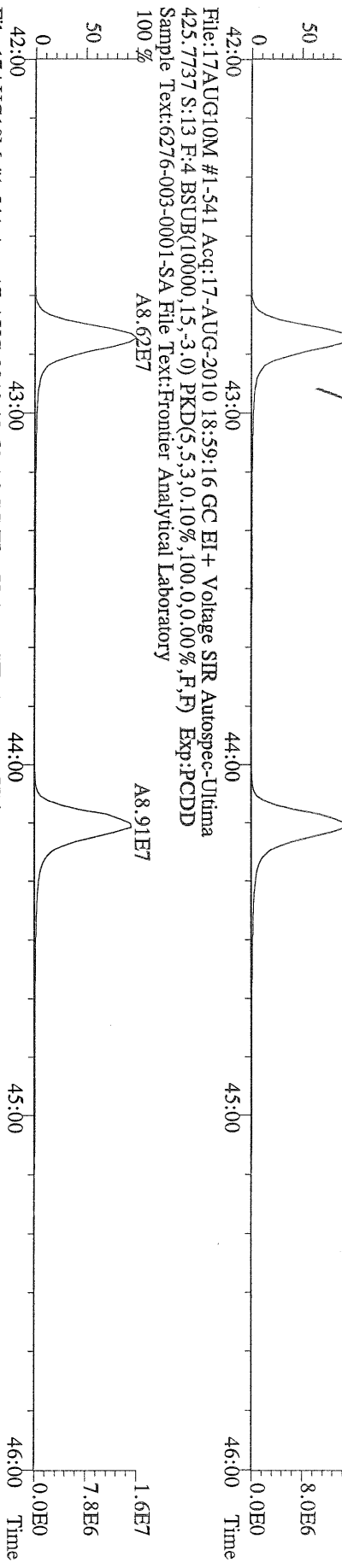
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 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



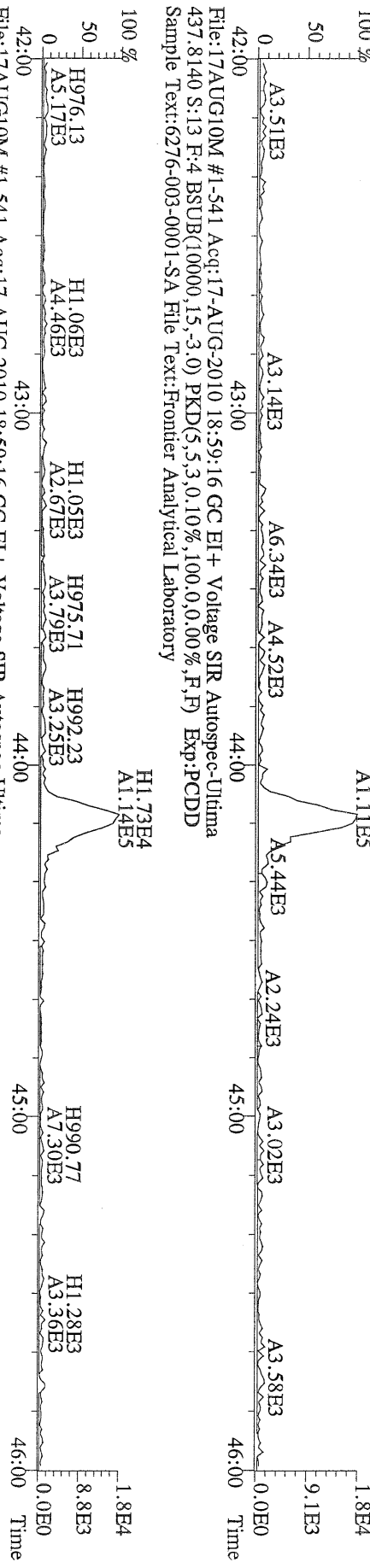
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 380.9760 S:13 F:3 Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



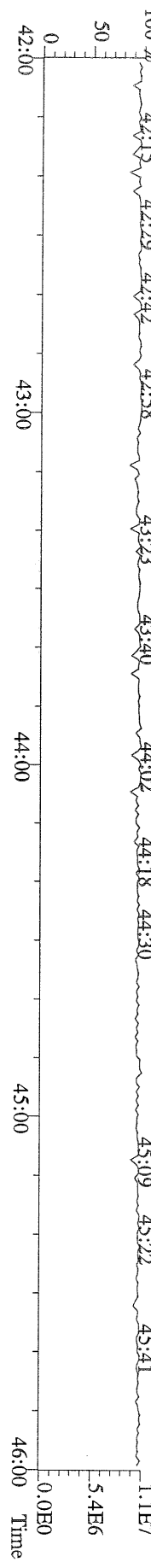
File:17AUG10M #1-541 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



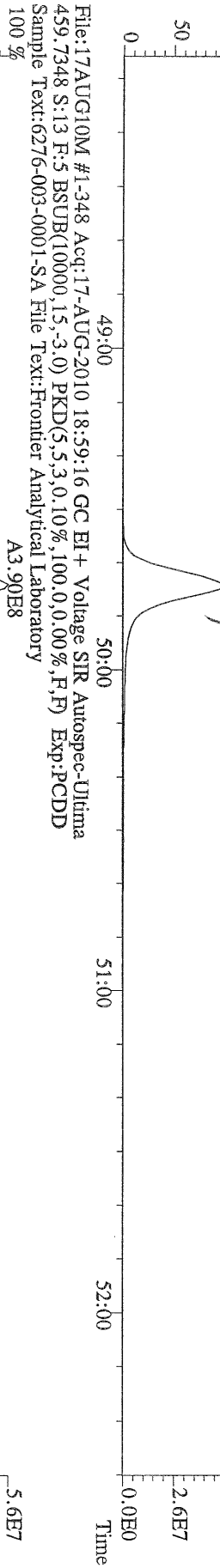
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 435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
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 100 %



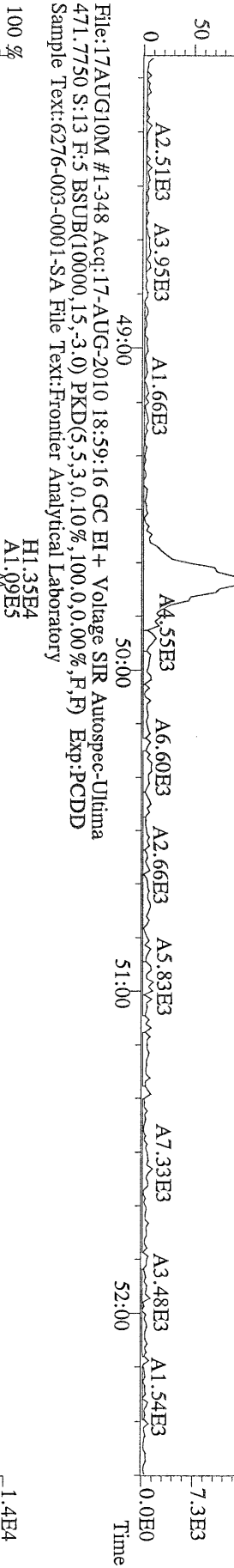
File:17AUG10M #1-541 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 430.9728 S:13 F:4 Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



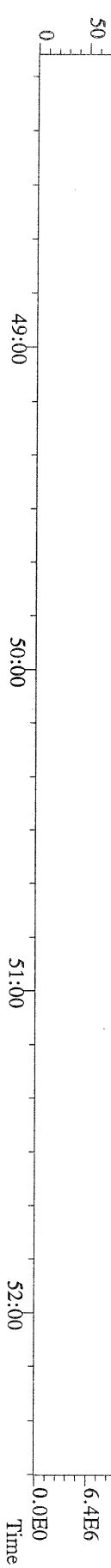
File:17AUG10M #1-348 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-348 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
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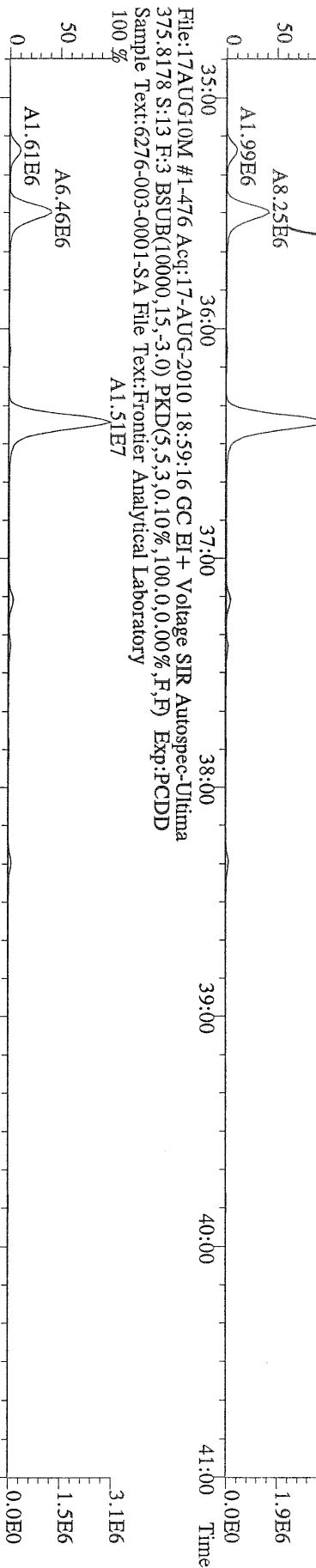


File:17AUG10M #1-348 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

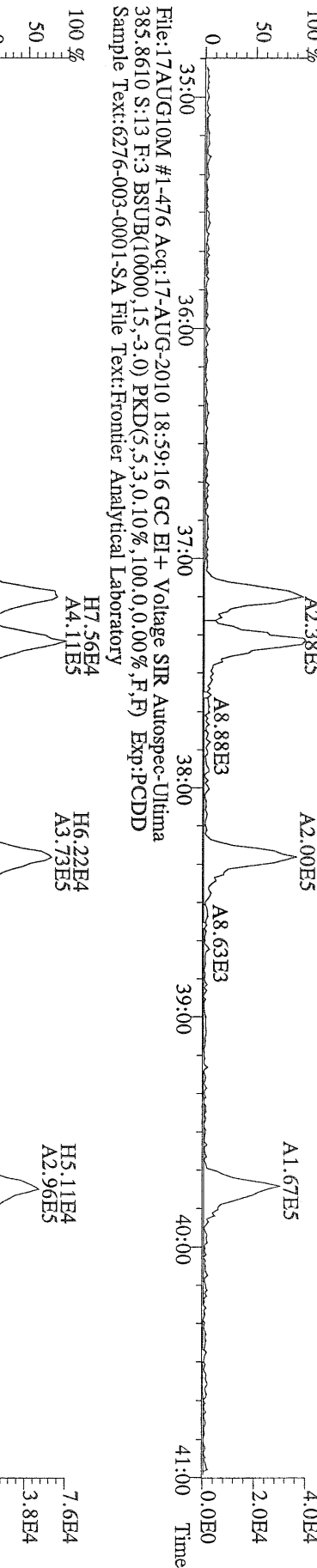


File:17AUG10M #1-348 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 482.20 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

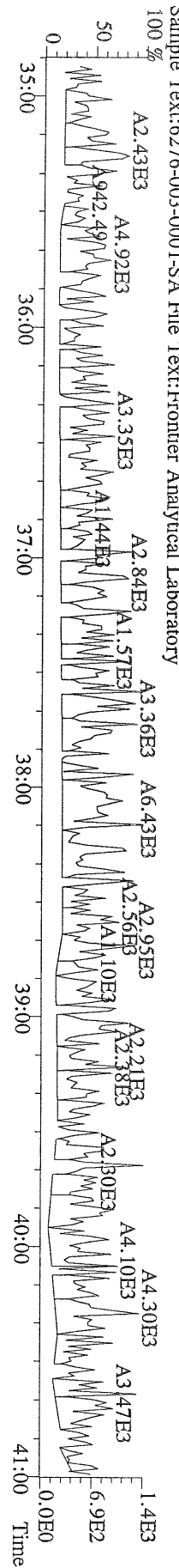
File:17AUG10M #1-476 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Utima  
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



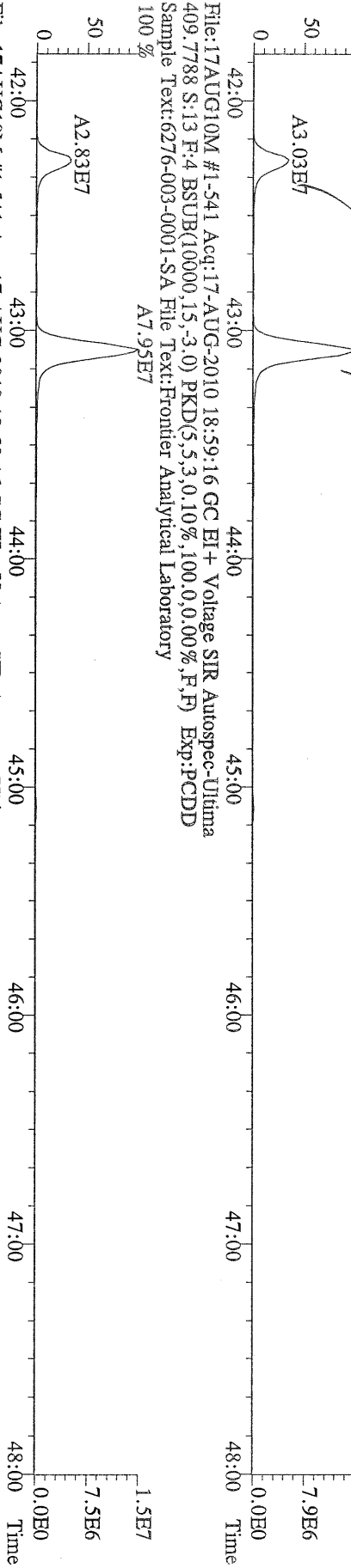
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383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



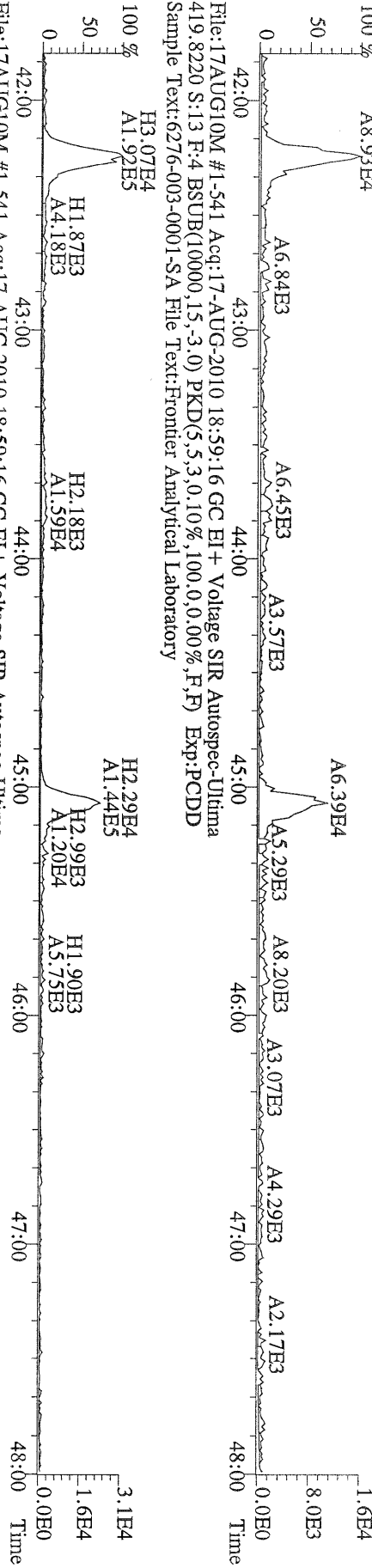
File:17AUG10M #1-476 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Utima  
445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



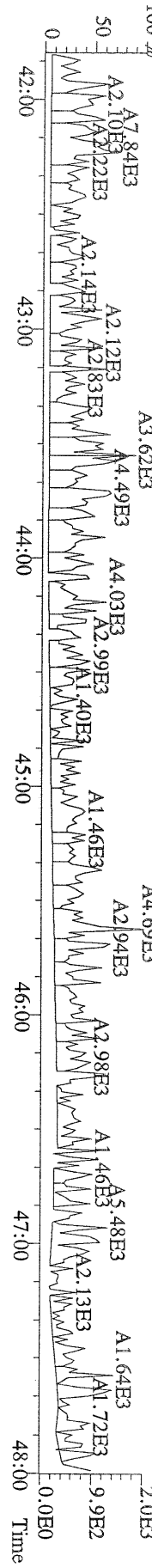
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 407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-541 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Utima  
 417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

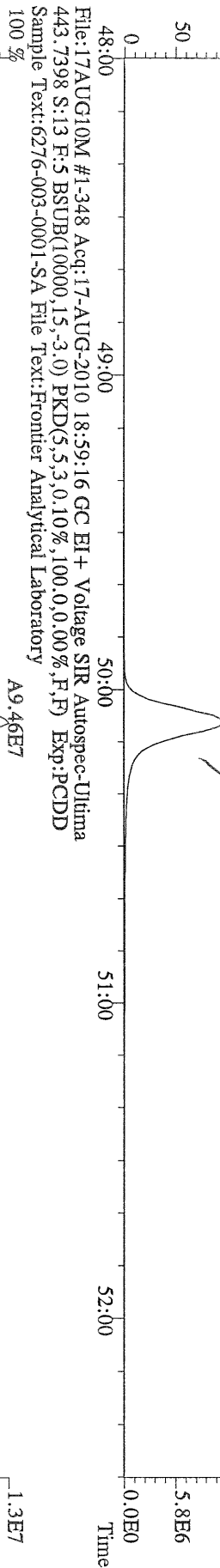


File:17AUG10M #1-541 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Utima  
 419.8220 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

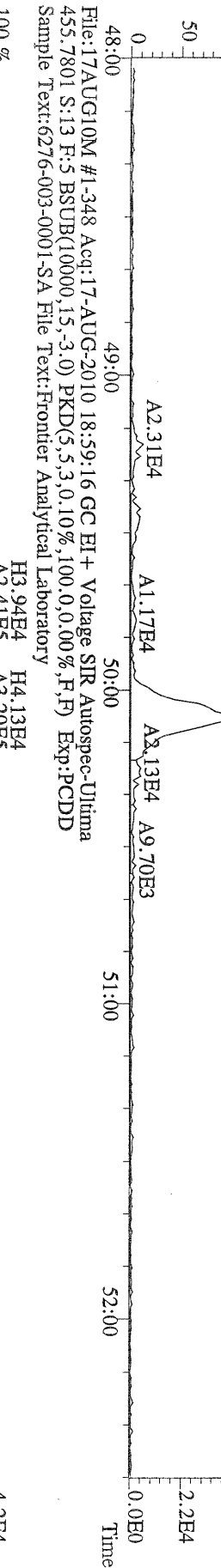




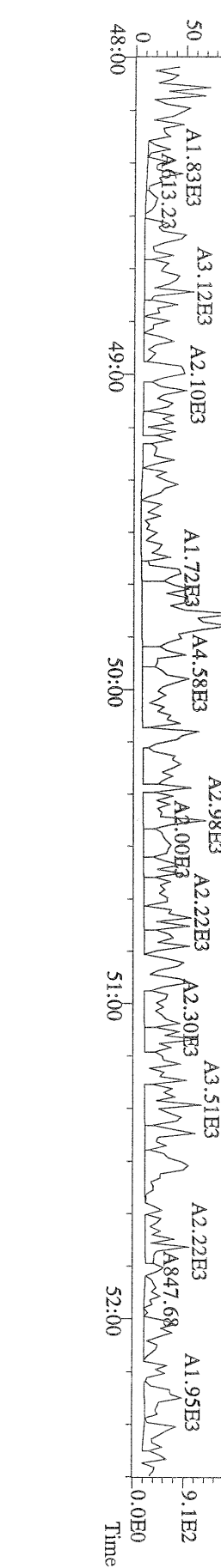
File:17AUG10M #1-348 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-348 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

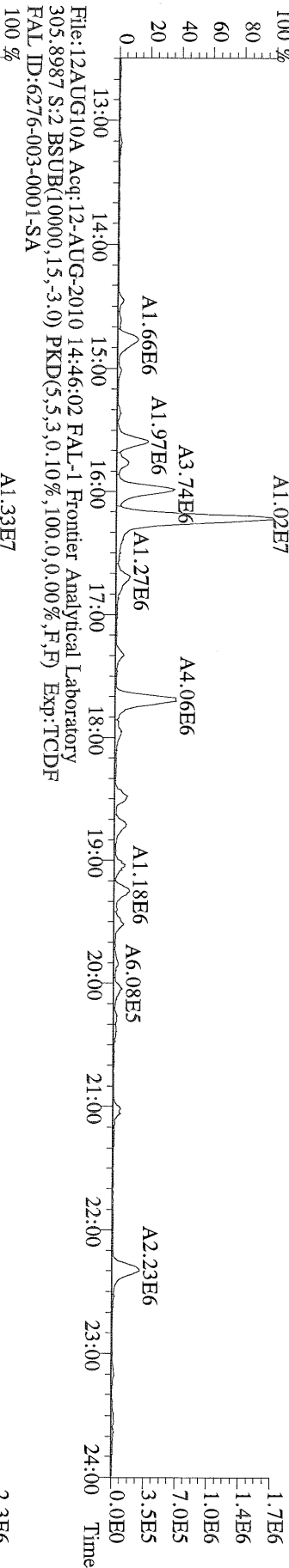


File:17AUG10M #1-348 Acq:17-AUG-2010 18:59:16 GC EI+ Voltage SIR Autospec-Ultima  
 455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD  
 Sample Text:6276-003-0001-SA File Text:Frontier Analytical Laboratory

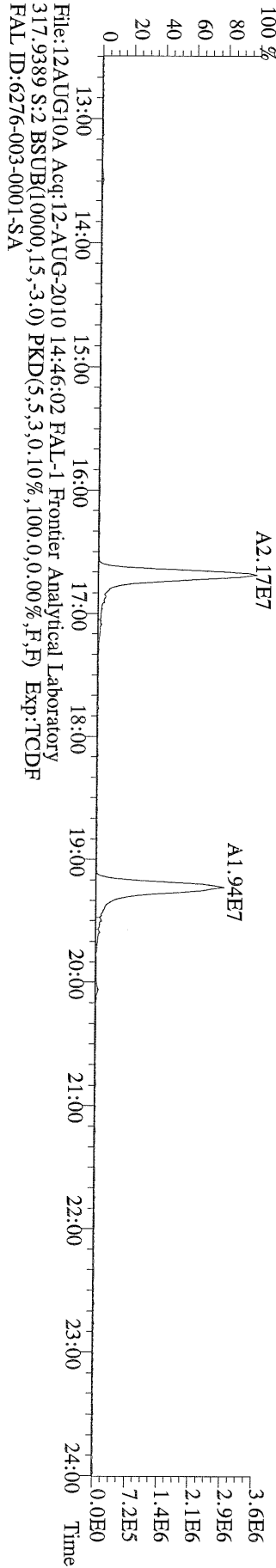




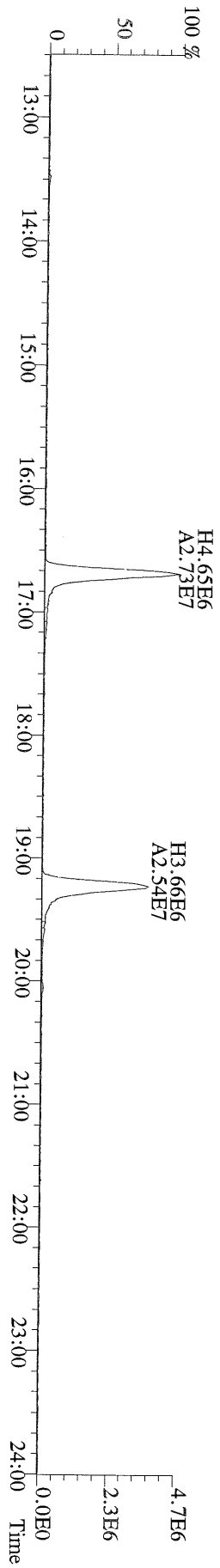
File:12AUG10A Acq:12-AUG-2010 14:46:02 FAL-1 Frontier Analytical Laboratory  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:TCDF  
FAL ID:6276-003-0001-SA



File:12AUG10A Acq:12-AUG-2010 14:46:02 FAL-1 Frontier Analytical Laboratory  
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:TCDF  
FAL ID:6276-003-0001-SA



File:12AUG10A Acq:12-AUG-2010 14:46:02 FAL-1 Frontier Analytical Laboratory  
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:TCDF  
FAL ID:6276-003-0001-SA



244011700  
 DL *8/19/10*

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	8.99e+06	0.73 y	27:28	1.04	210		2.50	-	*		
1,2,3,7,8-PeCDD	3.20e+07	1.56 y	33:18	1.05	868		2.50	-	*		
1,2,3,4,7,8-HxCDD	4.75e+07	1.32 y	38:40	1.30	1480		2.50	-	*		
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	* 13,500*		2.50	-	*		
1,2,3,7,8,9-HxCDD	1.62e+08	1.35 y	39:17	1.25	5150		2.50	-	*		
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.35	* 490,000*		2.50	-	*		
OCDD	*	* n	NotFnd	1.25	* 5,000,000*		2.50	-	*		
2,3,7,8-TCDF	3.33e+06	0.69 y	26:43	1.62	34.5	<i>0000 F</i>	2.50	-	*		
1,2,3,7,8-PeCDF	4.38e+06	1.44 y	31:33	0.92	90.3		2.50	-	*		
2,3,4,7,8-PeCDF	1.27e+07	1.42 y	32:52	0.94	267		2.50	-	*		
1,2,3,4,7,8-HxCDF	1.18e+08	1.22 y	37:17	0.93	2690		2.50	-	*		
1,2,3,6,7,8-HxCDF	5.27e+07	1.23 y	37:29	0.84	1150		2.50	-	*		
2,3,4,6,7,8-HxCDF	7.58e+07	1.22 y	38:26	0.90	1760		2.50	-	*		
1,2,3,7,8,9-HxCDF	8.43e+06	1.22 y	39:55	0.98	207		2.50	-	*		
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.38	* 130,000*		2.50	-	*		
1,2,3,4,7,8,9-HpCDF	1.32e+08	1.04 y	45:15	1.62	3490		2.50	-	*		
OCDF	*	* n	NotFnd	0.74	* 690,000*		2.50	-	*		
13C-2,3,7,8-TCDD	2.75e+07	0.85 y	27:26	0.93	636					95.8	
13C-1,2,3,7,8-PeCDD	2.34e+07	1.76 y	33:16	0.81	623					93.7	
13C-1,2,3,4,7,8-HxCDD	1.64e+07	1.21 y	38:39	0.95	600					90.3	
13C-1,2,3,6,7,8-HxCDD	1.71e+07	1.19 y	38:50	1.00	594					89.4	
13C-1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	0.92	*	*				* 94.2%	
13C-OCDD	*	* n	NotFnd	0.63	*	*				* 52.6%	
13C-2,3,7,8-TCDF	3.96e+07	0.89 y	26:42	0.87	665					100	
13C-1,2,3,7,8-PeCDF	3.52e+07	1.69 y	31:32	0.81	636					95.7	
13C-2,3,4,7,8-PeCDF	3.35e+07	1.66 y	32:52	0.75	650					97.8	
13C-1,2,3,4,7,8-HxCDF	3.14e+07	0.51 y	37:16	1.74	625					94.1	
13C-1,2,3,6,7,8-HxCDF	3.65e+07	0.51 y	37:27	2.17	583					87.7	
13C-2,3,4,6,7,8-HxCDF	3.19e+07	0.51 y	38:24	1.82	608					91.5	
13C-1,2,3,7,8,9-HxCDF	2.75e+07	0.50 y	39:50	1.49	641					96.4	
13C-1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.10	*	*				* 94.0%	
13C-1,2,3,4,7,8,9-HpCDF	1.55e+07	0.41 y	45:14	0.81	659					99.2	
13C-OCDF	*	* n	NotFnd	1.19	*	*				* 88.3%	
37Cl-2,3,7,8-TCDD	1.11e+07		27:28	0.93	257					96.8	
13C-1,2,3,4-TCDD	3.09e+07	0.84 y	26:52	-	30.3						
13C-1,2,3,4-TCDF	4.55e+07	0.87 y	25:36	-	28.4						
13C-1,2,3,7,8,9-HxCDD	1.92e+07	1.22 y	39:16	-	29.6						
Total Tetra-Dioxins	4.80e+07		24:29	1.04	1120		2.50	-	*		15
Total Penta-Dioxins	2.33e+08		30:18	1.05	6330		2.50	-	*		10
Total Hexa-Dioxins	2.95e+08		36:30	1.27	9320	<i>90,200*</i>	2.50	-	*		5
Total Hepta-Dioxins	*		NotFnd	1.35	* 938,000*		2.50	-	*		0
Total Tetra-Furans	1.22e+08		23:09	1.62	1270	D,M	2.50	-	*		23
1st Fn. Tot Penta-Furans	2.86e+08		28:31	0.93	5950	D,M	2.50	-	*	PeCDF	1
Total Penta-Furans	1.90e+08		30:08	0.93	3960	D,M	2.50	-	*	9900	13
Total Hexa-Furans	5.68e+08		35:20	0.90	13000	D,M,*	2.50	<i>98,600</i>	*	990	9
Total Hepta-Furans	1.95e+08		42:54	1.48	5310	D,M,*	2.50	<i>520,000</i>	*	<i>8/19/10</i>	2

Analyst: *[Signature]*

Date: *8/10/10*

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 14

File: 09AUG10M

S: 7 I: 1 F: 1

Acquired: 9-AUG-10 20:46:57

Total Concentration: 1120

Unnamed Concentration: 910.556

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:29	2.49e+06	3.45e+06	0.72 y	5.94e+06	139	
24:45	1.82e+06	2.47e+06	0.74 y	4.29e+06	100	
25:03	7.53e+05	1.04e+06	0.72 y	1.79e+06	41.9	
25:41	1.55e+05	1.82e+05	0.85 y	3.36e+05	7.85	
25:51	7.63e+05	9.49e+05	0.80 y	1.71e+06	40.0	
26:01	4.75e+06	6.58e+06	0.72 y	1.13e+07	265	
26:10	4.82e+05	6.41e+05	0.75 y	1.12e+06	26.2	
26:23	4.47e+05	6.02e+05	0.74 y	1.05e+06	24.5	
26:32	6.39e+05	8.33e+05	0.77 y	1.47e+06	34.4	
26:53	2.83e+06	3.81e+06	0.74 y	6.63e+06	155	
27:12	2.79e+05	3.66e+05	0.76 y	6.45e+05	15.1	
27:28	3.80e+06	5.19e+06	0.73 y	8.99e+06	210	2,3,7,8-TCDD
27:46	9.67e+05	1.32e+06	0.73 y	2.29e+06	53.5	
28:09	4.62e+04	7.02e+04	0.66 y	1.16e+05	2.72	
28:24	1.10e+05	1.32e+05	0.83 y	2.42e+05	5.66	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 14

File: 09AUG10M

S: 7 I: 1 F: 2

Acquired: 9-AUG-10 20:46:57

Total Concentration: 6330

Unnamed Concentration: 5456.871

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:18	5.23e+07	3.29e+07	1.59 y	8.52e+07	2310	
30:55	4.22e+06	2.69e+06	1.57 y	6.91e+06	187	
31:32	9.76e+06	6.01e+06	1.62 y	1.58e+07	427	
31:46	3.06e+07	1.93e+07	1.59 y	4.98e+07	1350	
31:53	1.11e+07	6.83e+06	1.62 y	1.79e+07	485	
32:12	7.79e+06	4.87e+06	1.60 y	1.27e+07	343	
32:40	2.30e+06	1.45e+06	1.59 y	3.75e+06	102	
33:18	1.95e+07	1.25e+07	1.56 y	3.20e+07	868	1,2,3,7,8-PeCDD
33:22	3.58e+06	2.26e+06	1.58 y	5.84e+06	158	
33:52	2.10e+06	1.39e+06	1.50 y	3.49e+06	94.6	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 14 File: 09AUG10M S: 7 I: 1 F: 3  
Acquired: 9-AUG-10 20:46:57

Total Concentration: 9320

Unnamed Concentration: 2684.324

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:30	2.87e+06	2.05e+06	1.40 y	4.92e+06	153	
37:08	3.96e+07	2.94e+07	1.35 y	6.90e+07	2150	
38:40	2.70e+07	2.05e+07	1.32 y	4.75e+07	1480	1,2,3,4,7,8-HxCDD
39:08	6.95e+06	5.29e+06	1.31 y	1.22e+07	381	
39:17	9.29e+07	6.90e+07	1.35 y	1.62e+08	5150	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 14 File: 09AUG10M S: 7 I: 1 F: 4  
Acquired: 9-AUG-10 20:46:57

Total Concentration: \*

Unnamed Concentration: \*

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
NotF <sub>7</sub>	*	* * n	*	*	



Totals class: Total Tetra-Furans

Entry #: 42

Run: 14

File: 09AUG10M

S: 7 I: 1 F: 1

Acquired: 9-AUG-10 20:46:57

Total Concentration: 1270

Unnamed Concentration: 1232.556

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:09	3.15e+05	4.51e+05	0.70 y	7.66e+05	7.95	
23:30	1.71e+06	2.56e+06	0.67 y	4.27e+06	44.3	
23:43	1.43e+05	1.62e+05	0.88 y	3.05e+05	3.17	
23:52	1.43e+07	2.17e+07	0.66 y	3.60e+07	373	
24:16	2.53e+06	3.73e+06	0.68 y	6.26e+06	65.0	
24:30	3.35e+06	5.03e+06	0.67 y	8.38e+06	87.0	
24:48	5.03e+06	7.64e+06	0.66 y	1.27e+07	131	
25:02	5.65e+05	7.67e+05	0.74 y	1.33e+06	13.8	
25:24	9.86e+05	1.43e+06	0.69 y	2.41e+06	25.0	
25:30	5.74e+06	8.69e+06	0.66 y	1.44e+07	150	
25:37	1.16e+06	1.72e+06	0.67 y	2.88e+06	29.9	
25:51	2.97e+05	3.78e+05	0.78 y	6.75e+05	7.01	
25:59	7.79e+05	1.10e+06	0.70 y	1.88e+06	19.5	
26:12	3.57e+05	4.76e+05	0.75 y	8.32e+05	8.64	
26:21	3.69e+05	4.67e+05	0.79 y	8.36e+05	8.68	
26:37	1.37e+06	2.00e+06	0.69 y	3.37e+06	35.0	
26:43	1.36e+06	1.97e+06	0.69 y	3.33e+06	34.5	2,3,7,8-TCDF
27:03	8.85e+05	1.25e+06	0.71 y	2.14e+06	22.2	
27:16	4.36e+04	4.97e+04	0.88 y	9.33e+04	0.968	
27:26	6.51e+05	8.52e+05	0.76 y	1.50e+06	15.6	
27:56	2.16e+06	3.15e+06	0.68 y	5.32e+06	55.2	
28:08	1.50e+06	2.15e+06	0.70 y	3.66e+06	38.0	
28:31	3.56e+06	5.22e+06	0.68 y	8.78e+06	91.1	

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

Run: 14      File: 09AUG10M      S: 7 I: 1 F: 1  
Acquired: 9-AUG-10 20:46:57

Total Concentration: 5950      Unnamed Concentration: 5945.055

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:31	1.76e+08	1.09e+08	1.61 y	2.86e+08	5950	

Totals class: Total Penta-Furans

Entry #: 44

Run: 14

File: 09AUG10M

S: 7 I: 1 F: 2

Acquired: 9-AUG-10 20:46:57

Total Concentration: 3960

Unnamed Concentration: 3598.583

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:08	4.86e+06	3.36e+06	1.45 y	8.22e+06	171	
30:17	5.69e+07	3.88e+07	1.47 y	9.57e+07	1990	
30:47	1.12e+06	7.52e+05	1.48 y	1.87e+06	38.9	
31:00	1.98e+07	1.35e+07	1.47 y	3.33e+07	693	
31:18	1.33e+06	9.34e+05	1.42 y	2.26e+06	47.1	
31:33	2.58e+06	1.80e+06	1.44 y	4.38e+06	90.3	1,2,3,7,8-PeCDF
31:53	6.07e+06	4.20e+06	1.44 y	1.03e+07	214	
32:07	4.67e+05	3.17e+05	1.47 y	7.84e+05	16.3	
32:35	1.10e+05	6.61e+04	1.67 y	1.76e+05	3.67	
32:44	8.09e+05	5.81e+05	1.39 y	1.39e+06	28.9	
32:52	7.44e+06	5.25e+06	1.42 y	1.27e+07	267	2,3,4,7,8-PeCDF
32:53	9.70e+06	6.56e+06	1.48 y	1.63e+07	338	
34:10	1.55e+06	1.07e+06	1.45 y	2.63e+06	54.7	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 14

File: 09AUG10M

S: 7 I: 1 F: 3

Acquired: 9-AUG-10 20:46:57

Total Concentration: 13000

Unnamed Concentration: 7238.300

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:20	1.52e+08	1.24e+08	1.23 y	2.76e+08	6360	
36:12	1.14e+07	9.12e+06	1.25 y	2.05e+07	473	
37:07	3.65e+06	3.04e+06	1.20 y	6.70e+06	155	
37:17	6.49e+07	5.31e+07	1.22 y	1.18e+08	2690	1,2,3,4,7,8-HxCDF
37:29	2.90e+07	2.37e+07	1.23 y	5.27e+07	1150	1,2,3,6,7,8-HxCDF
37:56	1.52e+06	1.23e+06	1.23 y	2.75e+06	63.5	
38:09	4.46e+06	3.47e+06	1.29 y	7.93e+06	183	
38:26	4.17e+07	3.41e+07	1.22 y	7.58e+07	1760	2,3,4,6,7,8-HxCDF
39:55	4.63e+06	3.80e+06	1.22 y	8.43e+06	207	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 14 File: 09AUG10M  
Acquired: 9-AUG-10 20:46:57

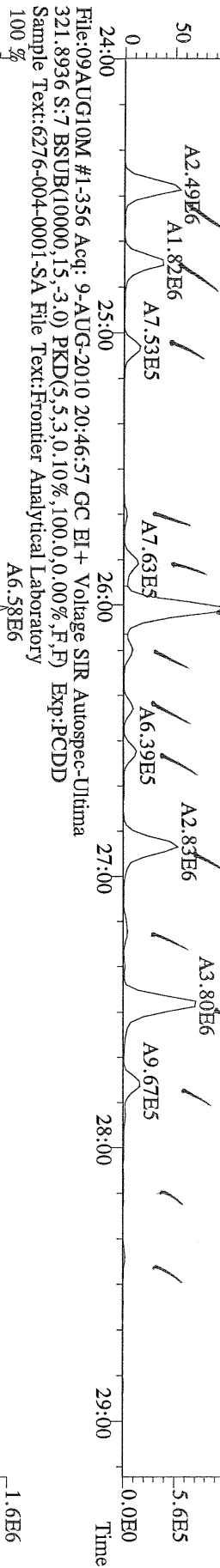
S: 7 I: 1 F: 4

Total Concentration: 5310

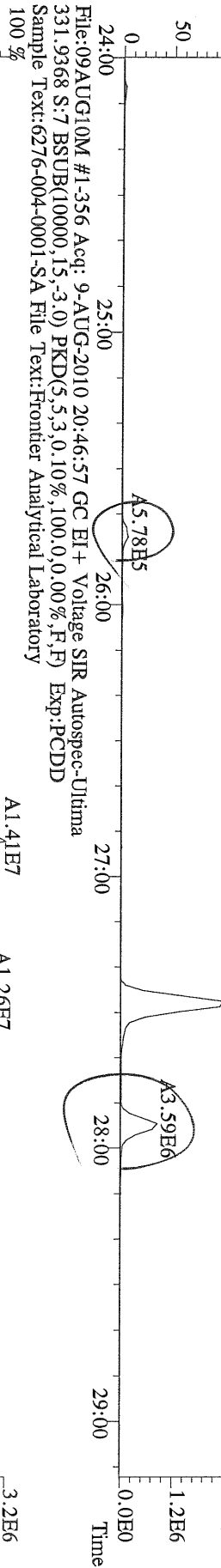
Unnamed Concentration: \*

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:54	3.23e+07	3.10e+07	1.04 y	6.32e+07	1820	<i>8/10/10</i> <del>1,2,3,4,6,7,8</del> -HpCDF
45:15	6.75e+07	6.47e+07	1.04 y	1.32e+08	3490	1,2,3,4,7,8,9-HpCDF

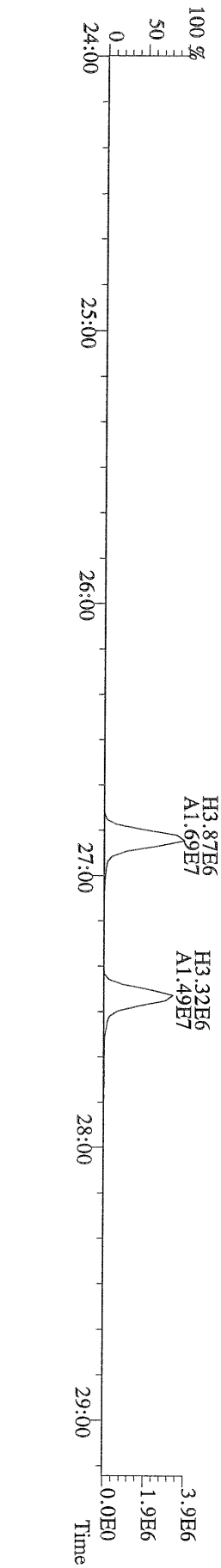
File:09AUG10M #1-356 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



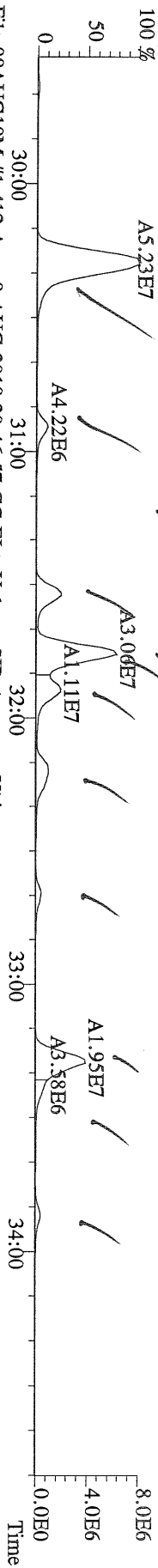
File:09AUG10M #1-356 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



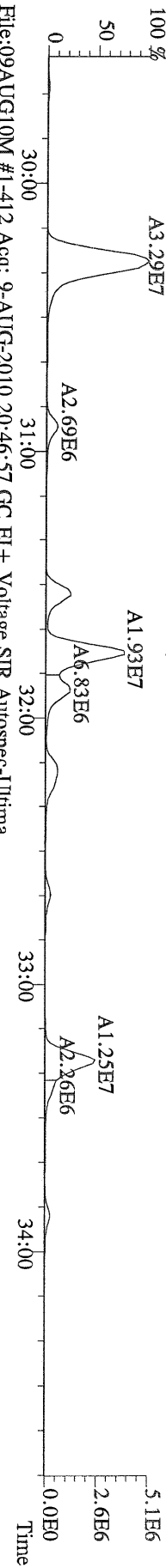
File:09AUG10M #1-356 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



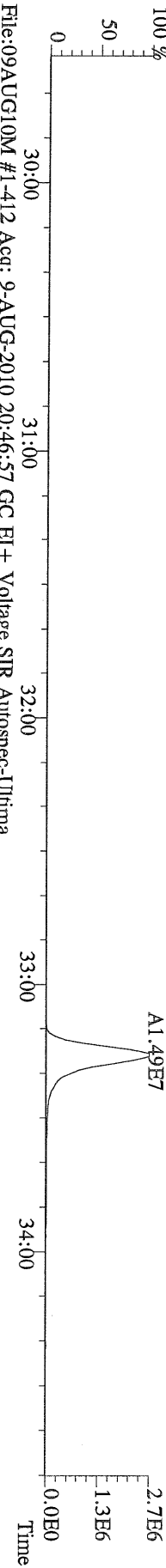
File:09AUG10M #1-412 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



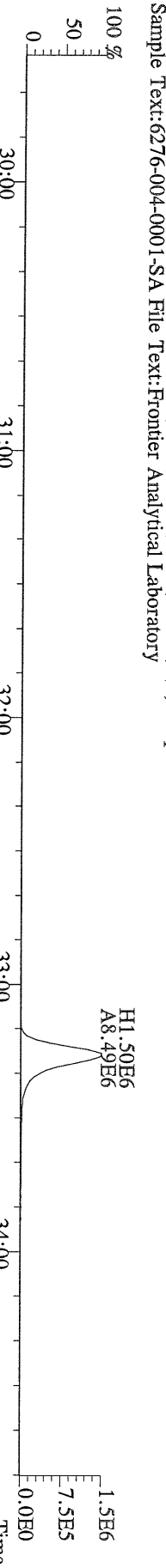
File:09AUG10M #1-412 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 357.8517 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



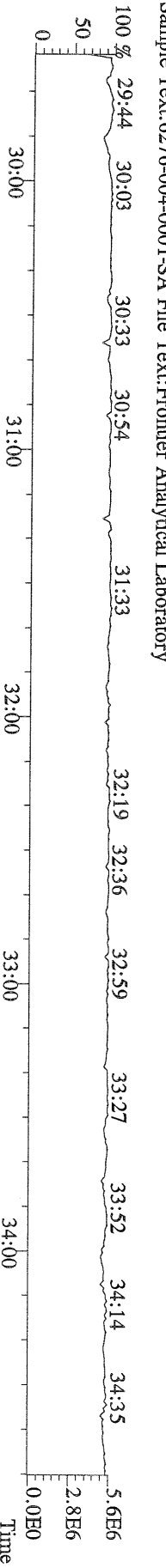
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 367.8949 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



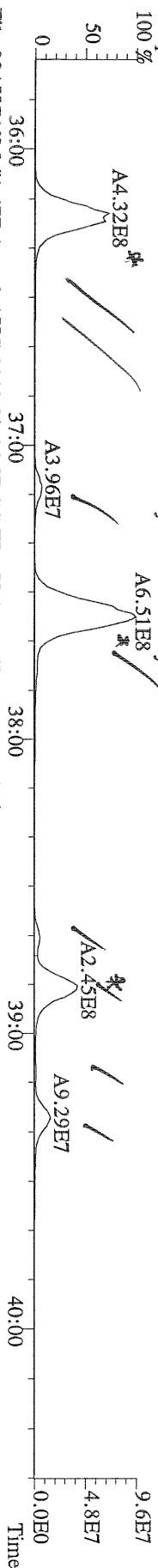
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 369.8919 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



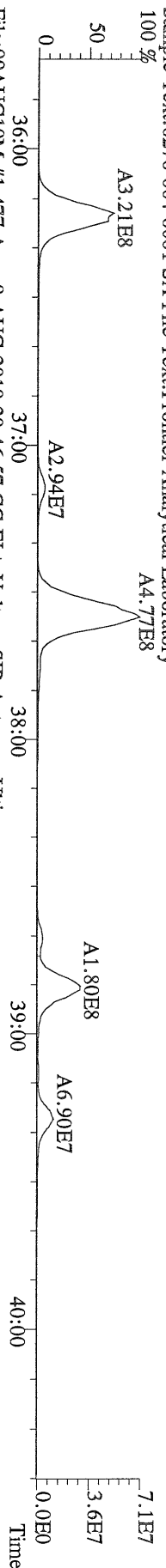
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 366.9792 S:7 F:2 Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



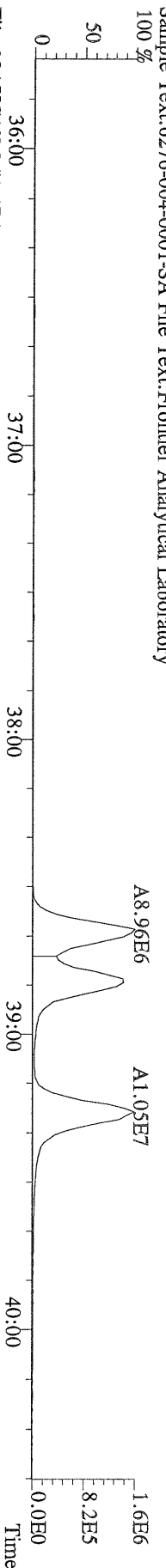
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 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



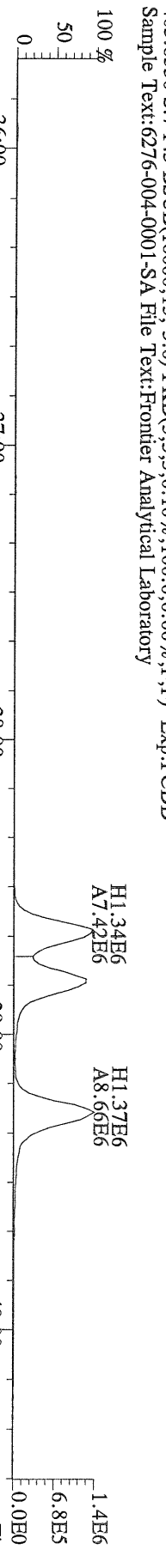
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 391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



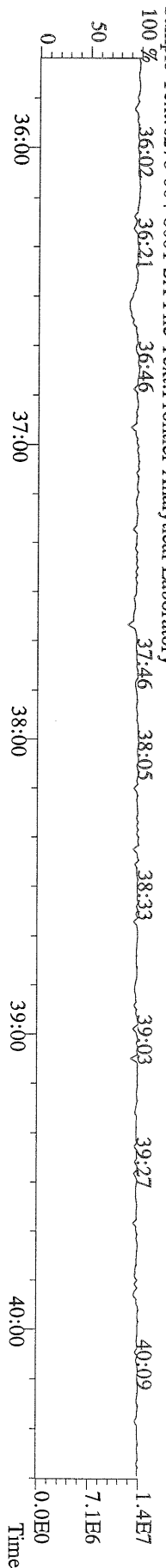
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 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-477 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 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:6276-004-0001-SA File Text:Frontier Analytical Laboratory

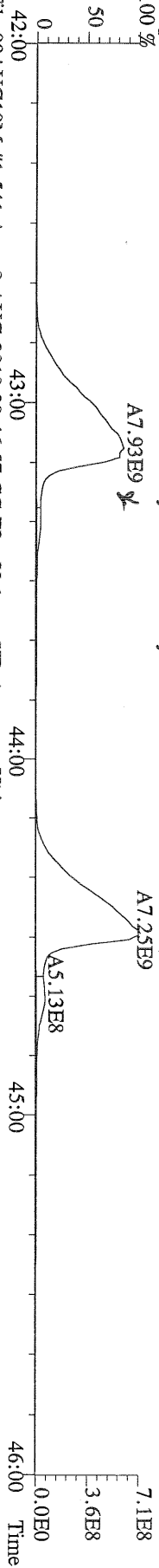


File:09AUG10M #1-477 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:7 F:3 Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory

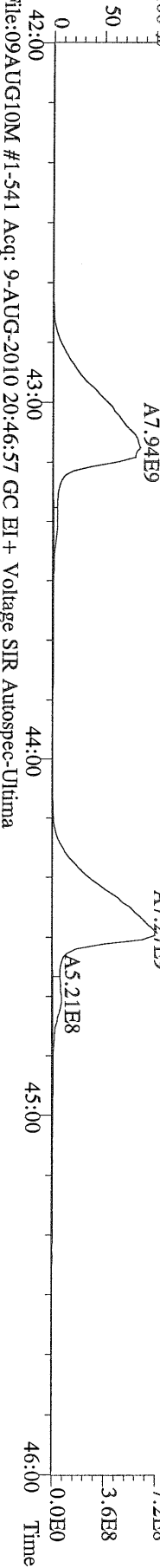




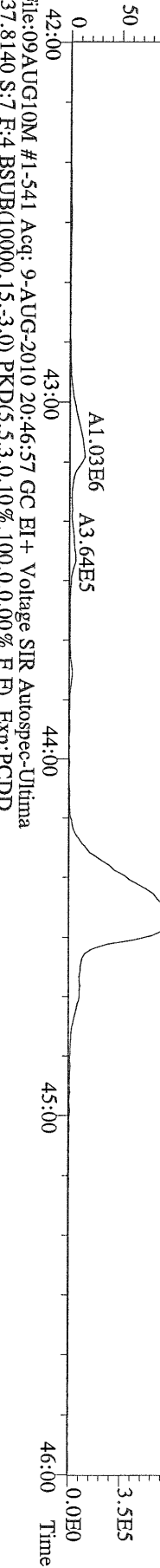
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423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKID(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



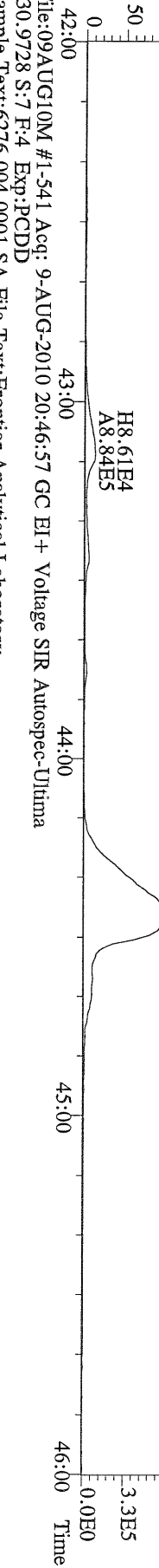
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425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKID(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



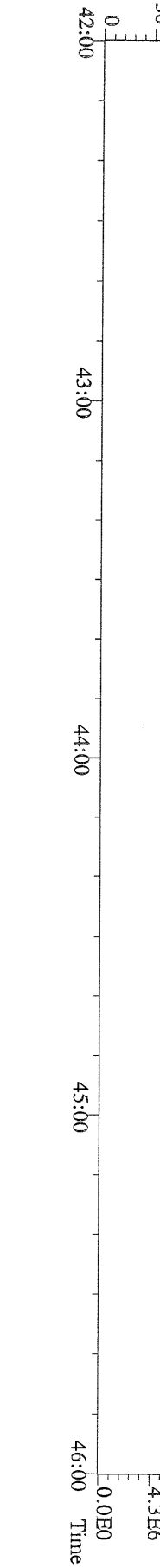
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435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKID(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



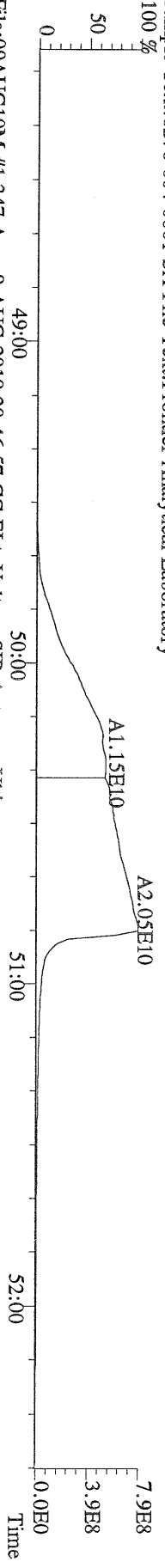
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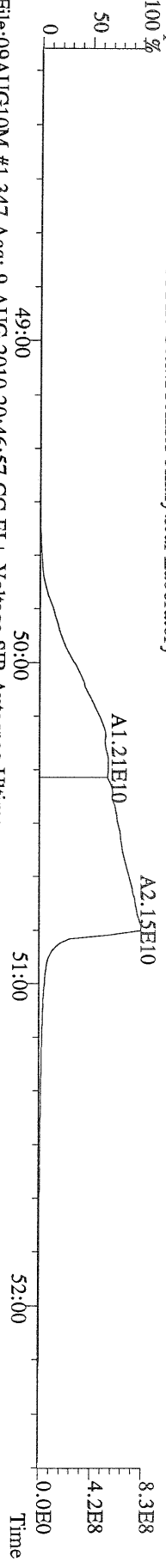
File:09AUG10M #1-541 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:7 F:4 Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



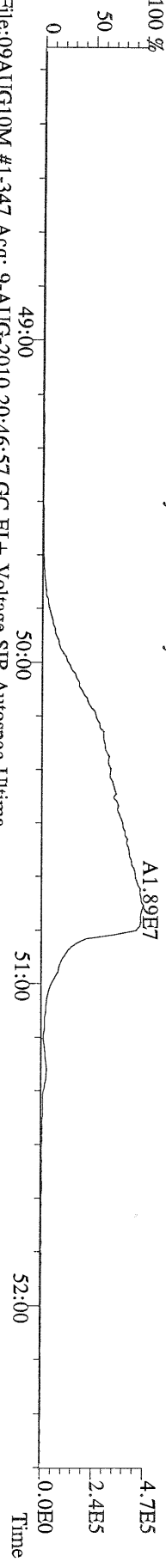
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457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



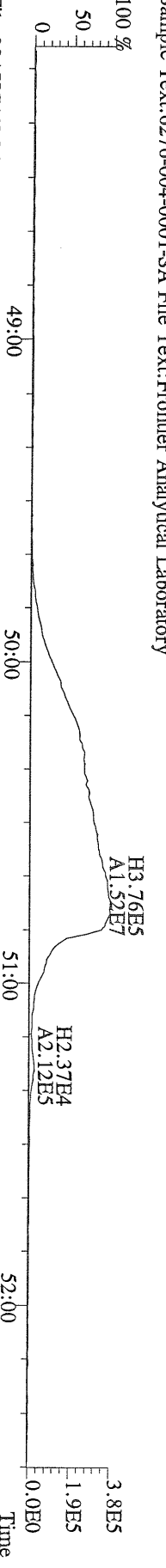
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459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



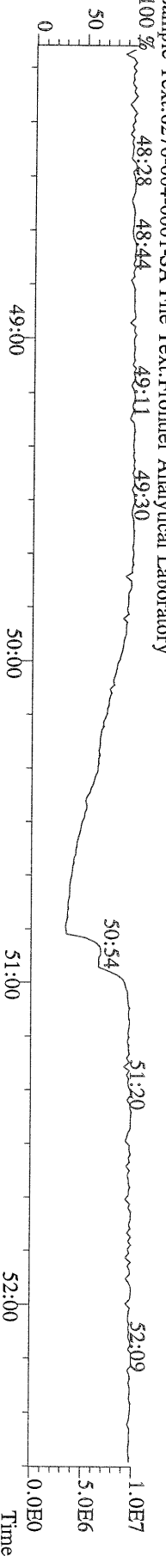
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469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



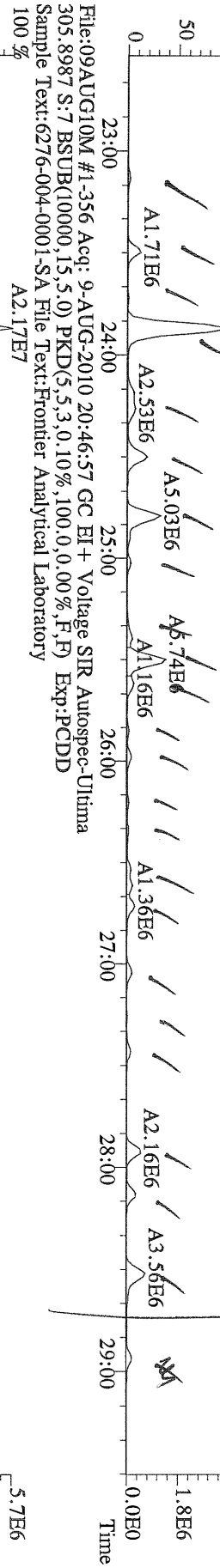
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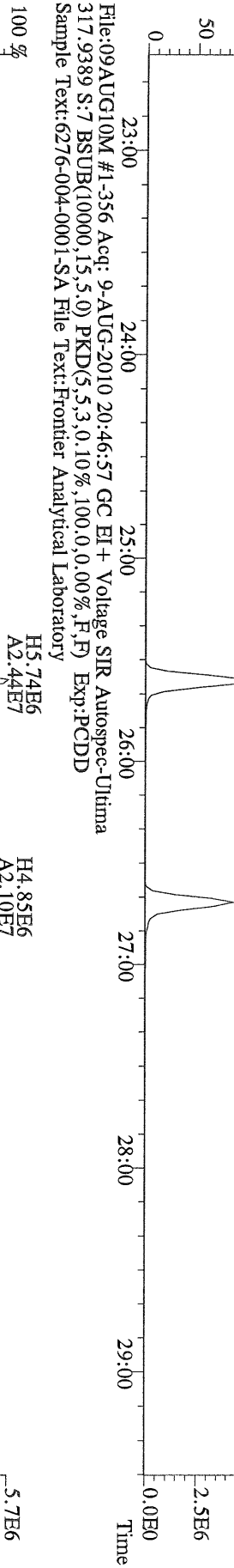
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454.9728 S:7 F:5 Exp:PCDD  
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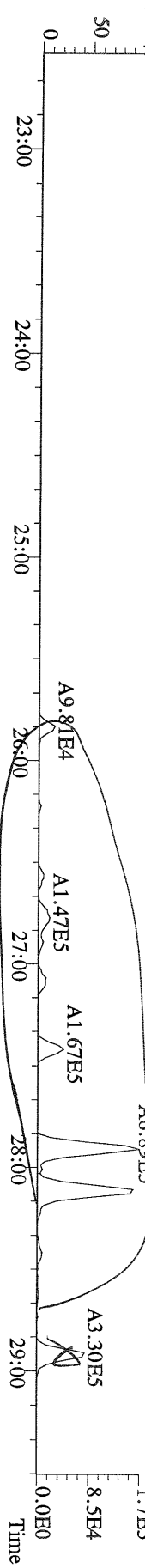
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 303.9016 S:7 BSUB(10000,15,3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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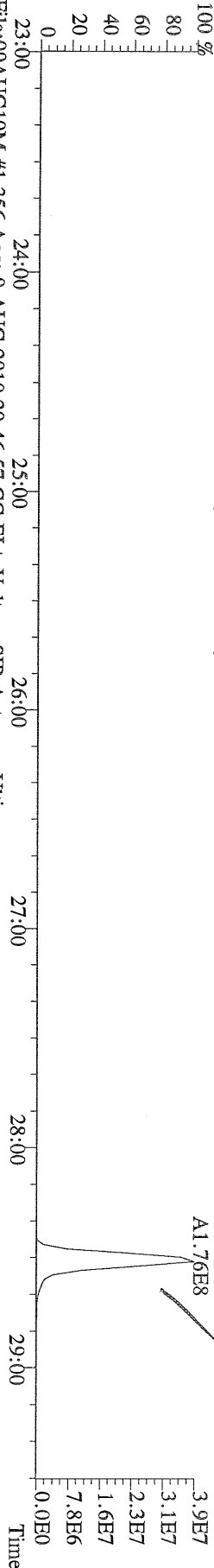
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 315.9419 S:7 BSUB(10000,15,5,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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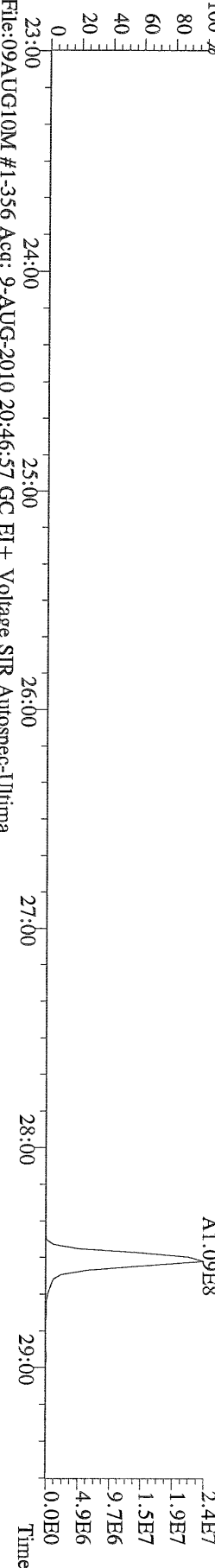
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 375.8364 S:7 BSUB(10000,15,5,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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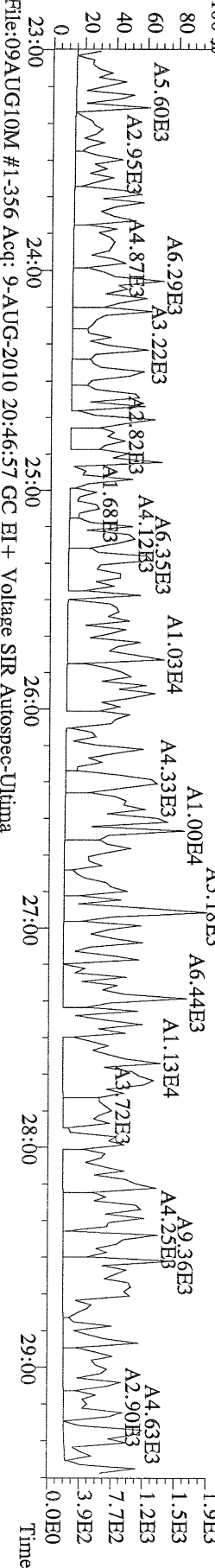
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 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



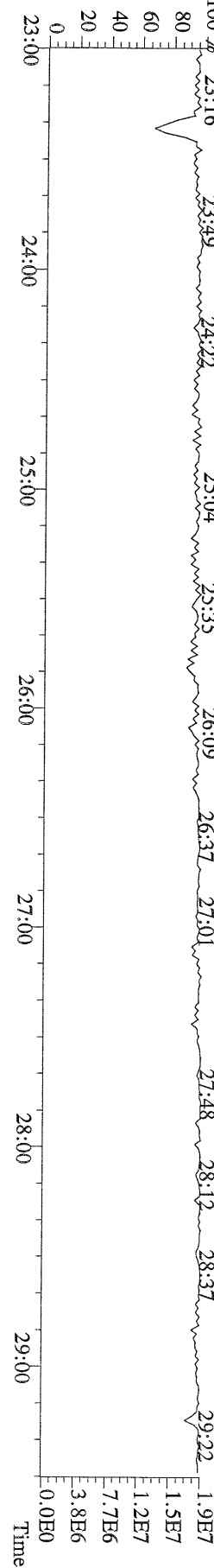
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 341.8568 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
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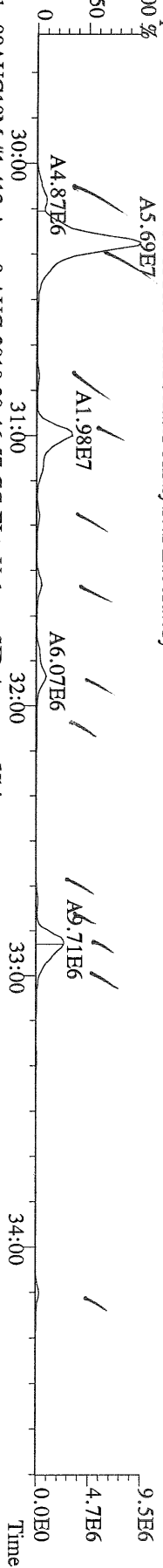
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 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
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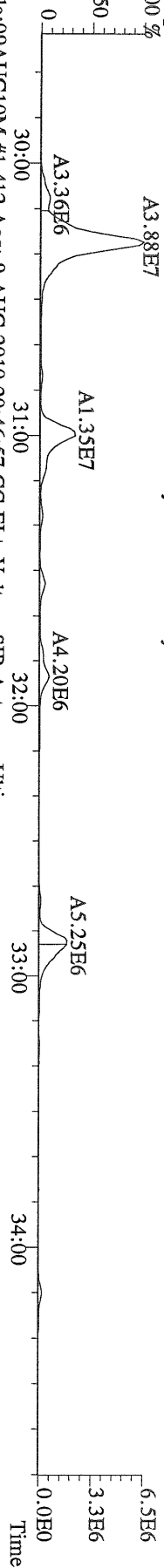
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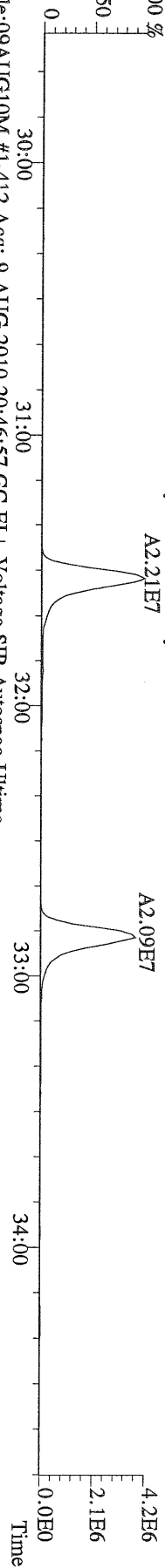
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339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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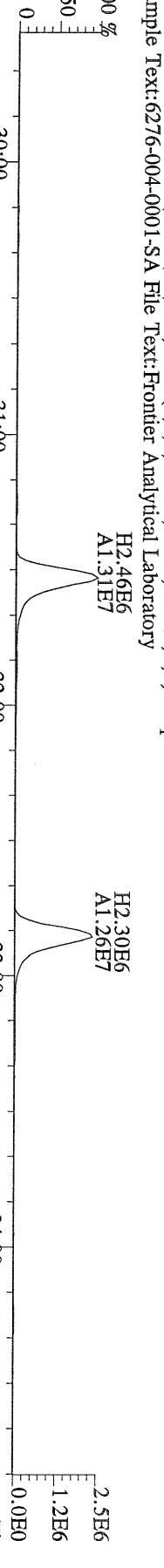
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341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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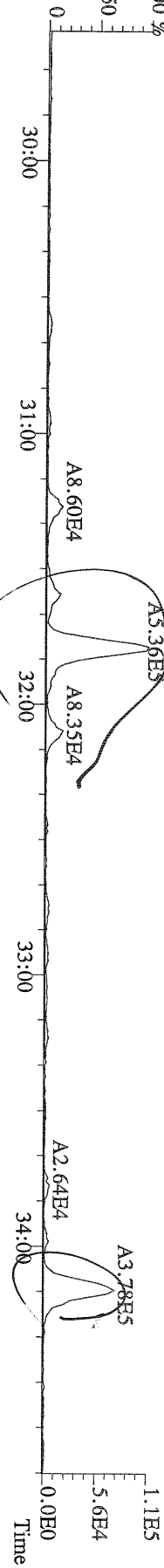
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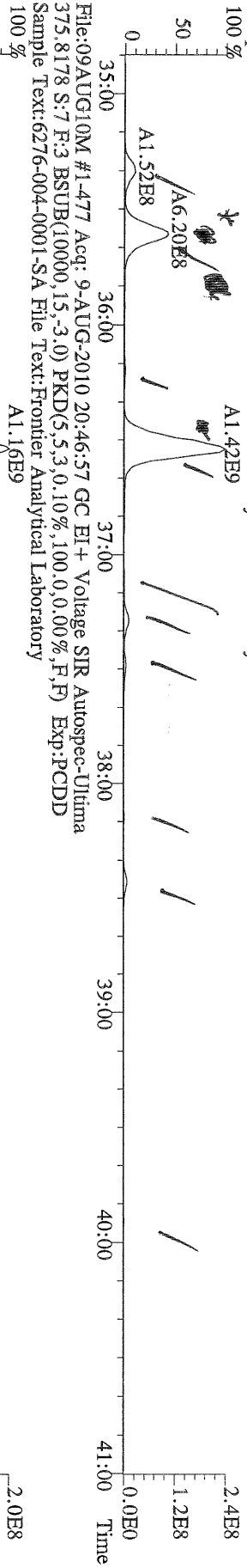
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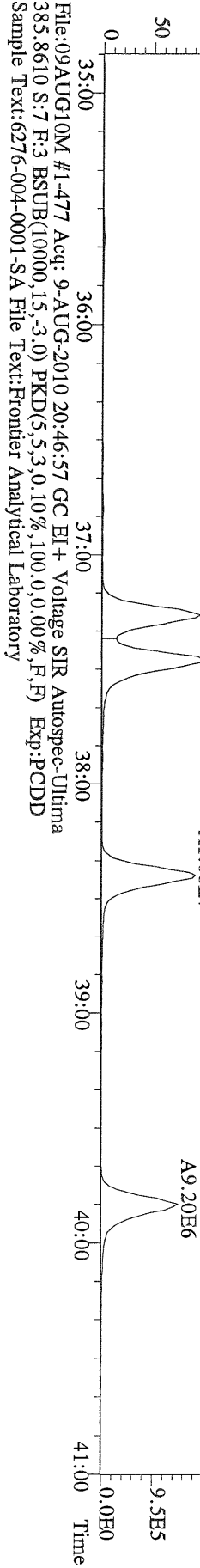
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Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



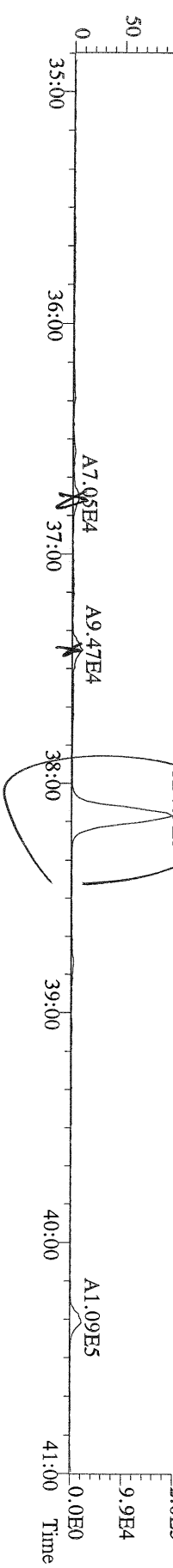
File:09AUG10M #1-477 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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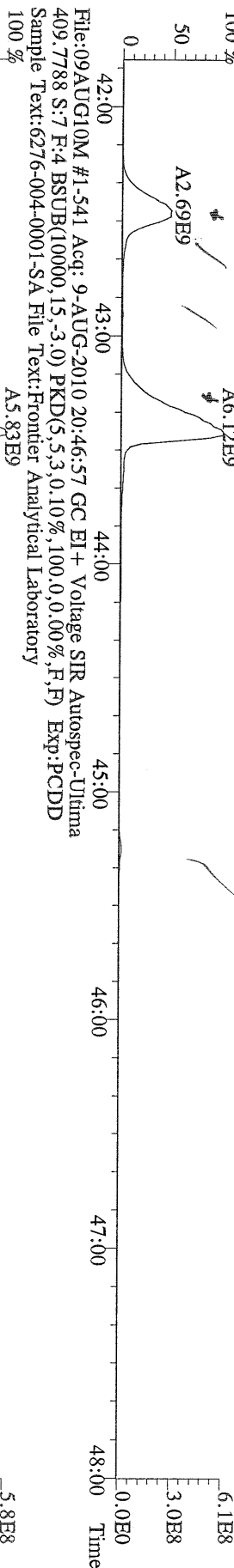
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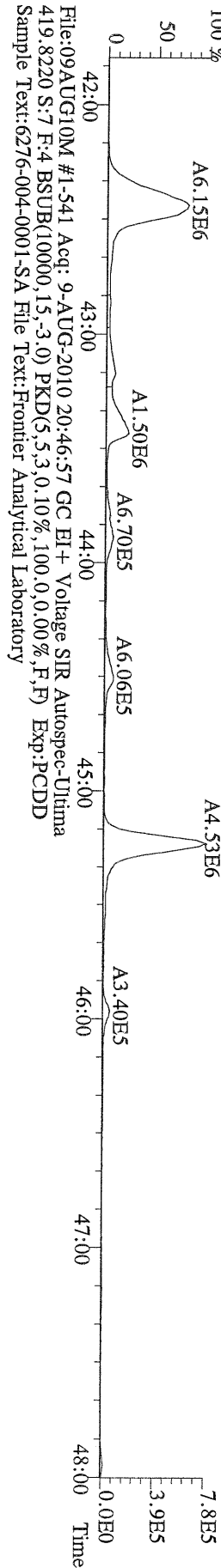
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445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



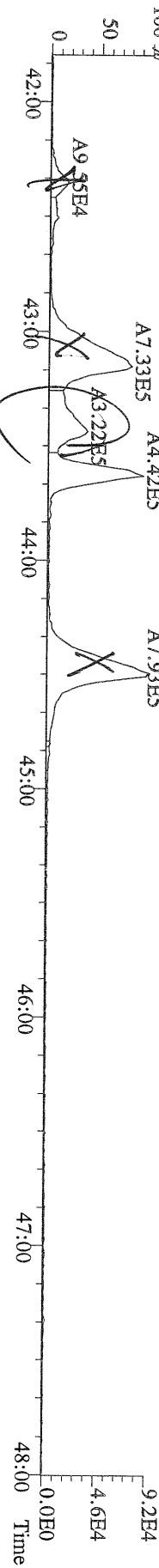
File:09AUG10M #1-541 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Utima  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



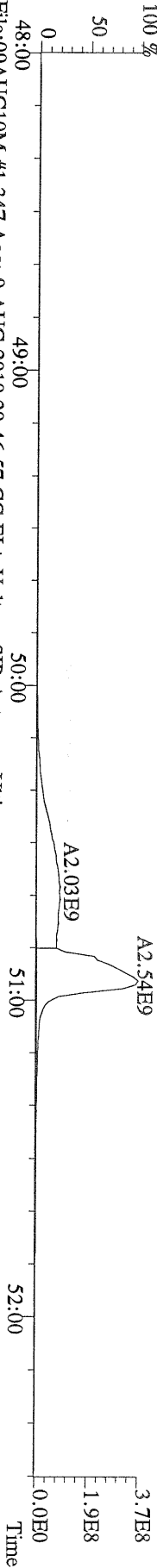
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417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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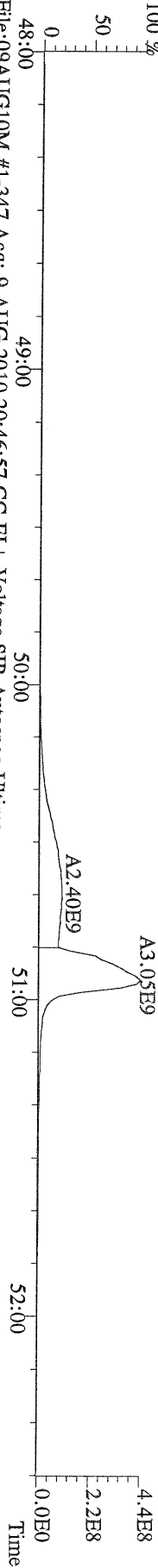
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419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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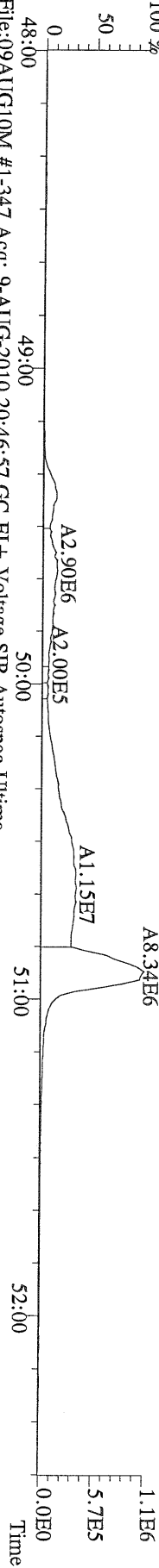
File:09AUG10M #1-347 Acq: 9-AUG-2010 20:46:57 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 20:46:57 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:6276-004-0001-SA File Text:Frontier Analytical Laboratory



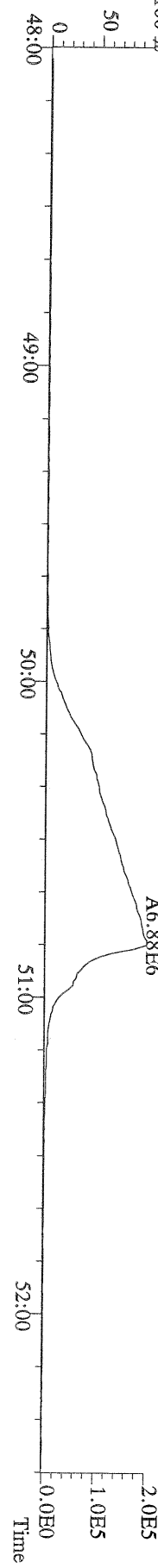
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 453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 20:46:57 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  
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File:09AUG10M #1-347 Acq: 9-AUG-2010 20:46:57 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:6276-004-0001-SA File Text:Frontier Analytical Laboratory





FAL ID: 6276-004-0001-SA      Filename: 17AUG10M      Sam:14      Acquired: 17-AUG-10 19:54:40      ICal: PCDDFAL3-5-12-10  
 Client ID: PSB11-2-4-073010-D 1:200      ConCal: ST081710M1      EndCal: ST081710M2  
 Results: 6276D      GC Column: DB5      Amount: 3.010      NATO 1989 Tox: 13200

WHO 1998 Tox: 8110      WHO 2005 Tox: 9250

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	-	-	*	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	6.46e+06	1.41 y	38:44	1.28	13500		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	2.16e+08	1.00 y	44:11	1.35	490000		2.50	-	-	*	
OCDD	7.78e+08	0.95 y	49:45	1.25	5000000		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	-	-	*	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	-	-	*	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	6.91e+07	1.07 y	42:16	1.38	130000		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	-	-	*	
OCDF	2.00e+08	0.88 y	50:06	0.74	690000		2.50	-	-	*	
13C-2,3,7,8-TCDD	*	* n	NotFnd	0.93	*					*	
13C-1,2,3,7,8-PeCDD	*	* n	NotFnd	0.81	*					*	
13C-1,2,3,4,7,8-HxCDD	2.30e+05	1.31 y	38:33	0.95	649					97.7	
13C-1,2,3,6,7,8-HxCDD	2.50e+05	1.25 y	38:43	1.00	670					101	
13C-1,2,3,4,6,7,8-HpCDD	2.16e+05	1.01 y	44:10	0.92	626					94.2	
13C-OCDD	1.65e+05	0.99 y	49:45	0.63	699					52.6	
13C-2,3,7,8-TCDF	*	* n	NotFnd	0.87	*					*	
13C-1,2,3,7,8-PeCDF	*	* n	NotFnd	0.81	*					*	
13C-2,3,4,7,8-PeCDF	*	* n	NotFnd	0.75	*					*	
13C-1,2,3,4,7,8-HxCDF	5.08e+05	0.55 y	37:09	1.74	781					118	
13C-1,2,3,6,7,8-HxCDF	5.92e+05	0.51 y	37:22	2.17	730					110	
13C-2,3,4,6,7,8-HxCDF	5.49e+05	0.49 y	38:17	1.82	808					122	
13C-1,2,3,7,8,9-HxCDF	4.11e+05	0.56 y	39:44	1.49	738					111	
13C-1,2,3,4,6,7,8-HpCDF	2.57e+05	0.47 y	42:15	1.10	625					94.0	
13C-1,2,3,4,7,8,9-HpCDF	1.87e+05	0.44 y	45:06	0.81	613					92.2	
13C-OCDF	5.21e+05	0.97 y	50:05	1.19	1170					88.3	
37Cl-2,3,7,8-TCDD	1.84e+03		22:44	0.93	*					*	
13C-1,2,3,4-TCDD	*	* n	NotFnd	-	*						
13C-1,2,3,4-TCDF	*	* n	NotFnd	-	*						
13C-1,2,3,7,8,9-HxCDD	2.49e+05	1.24 y	39:10	-	0.383						
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	-	-	*	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	-	-	*	0
Total Hexa-Dioxins	3.75e+07		36:06	1.27	80900		2.50	-	-	*	3
Total Hepta-Dioxins	4.12e+08		42:48	1.35	938000		2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.62	*		2.50	-	-	*	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.93	*		2.50	-	-	*	PeCDF 0
Total Penta-Furans	*		NotFnd	0.93	*		2.50	-	-	*	0.00 0
Total Hexa-Furans	6.01e+07		35:30	0.90	85600		2.50	-	-	*	2
Total Hepta-Furans	2.60e+08		42:16	1.48	515000		2.50	-	-	*	2

Analyst: J

Date: 8/18/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 3

Acquired: 17-AUG-10 19:54:40

Total Concentration: 80900

Unnamed Concentration: 67418.378

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:06	7.60e+06	5.52e+06	1.38 y	1.31e+07	28500	
37:29	1.04e+07	7.45e+06	1.40 y	1.79e+07	38900	
38:44	3.78e+06	2.67e+06	1.41 y	6.46e+06	13500	1,2,3,6,7,8-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 4

Acquired: 17-AUG-10 19:54:40

Total Concentration: 938000

Unnamed Concentration: 447381.356

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	9.85e+07	9.82e+07	1.00 y	1.97e+08	447000	
44:11	1.08e+08	1.08e+08	1.00 y	2.16e+08	490000	1,2,3,4,6,7,8-HpCDD

Totals class: Total Hexa-Furans

Entry #: 45

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 3

Acquired: 17-AUG-10 19:54:40

Total Concentration: 85600

Unnamed Concentration: 85642.752

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
35:30	1.00e+07	7.85e+06 1.28 y	1.79e+07	25500	
36:24	2.35e+07	1.87e+07 1.26 y	4.22e+07	60200	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 4

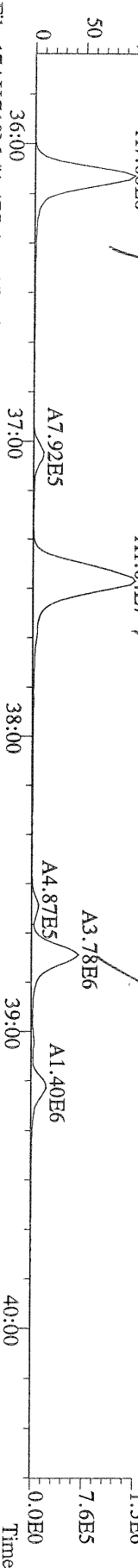
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Total Concentration: 515000

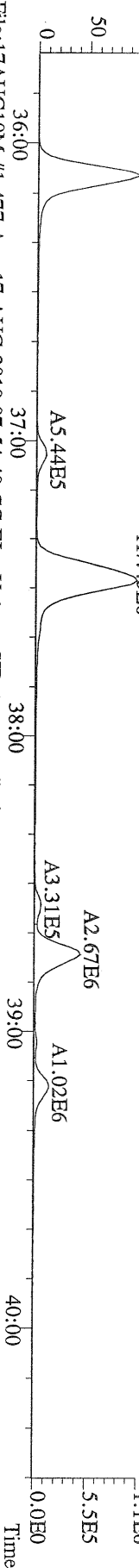
Unnamed Concentration: 385173.346

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	3.57e+07	3.35e+07	1.07 y	6.91e+07	130000	1,2,3,4,6,7,8-HpCDF
43:06	9.79e+07	9.29e+07	1.05 y	1.91e+08	385000	

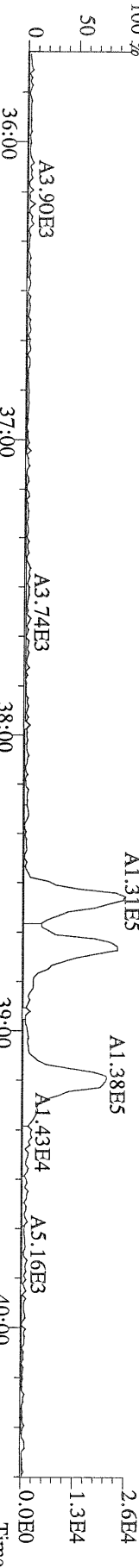
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389.8156 S:14 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



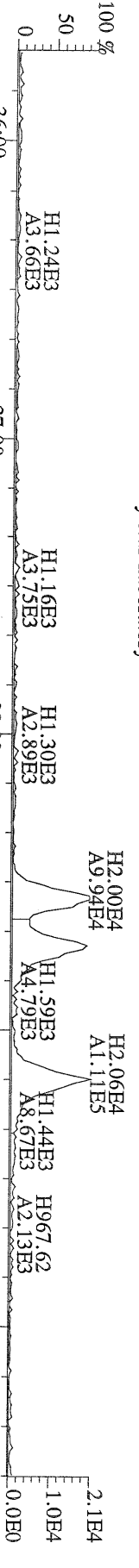
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Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



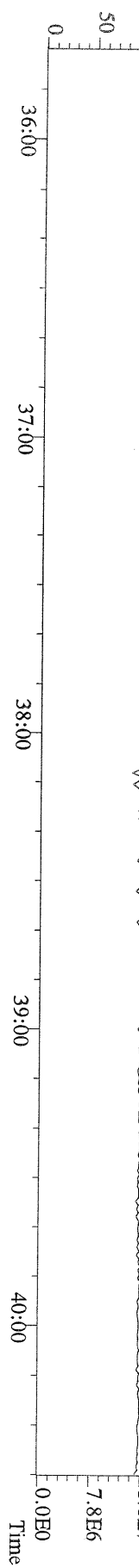
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401.8559 S:14 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



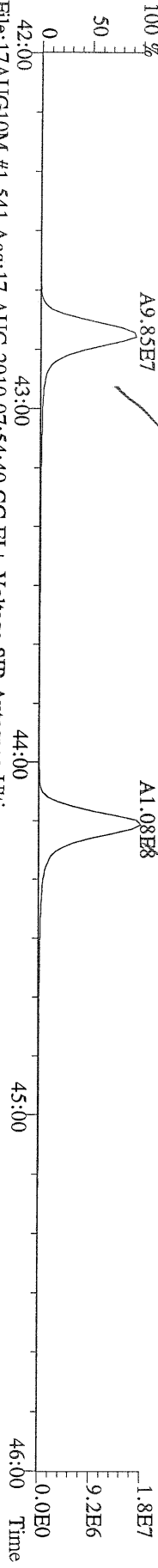
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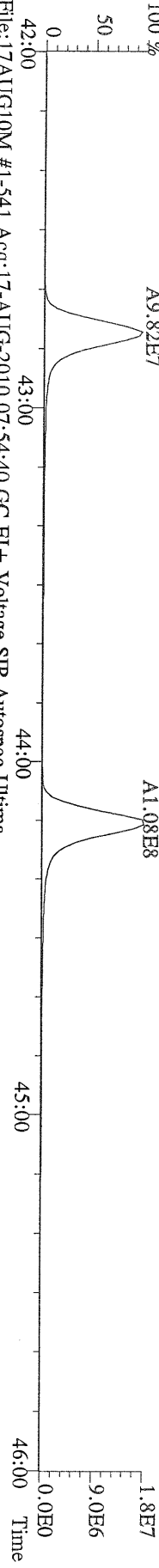
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Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



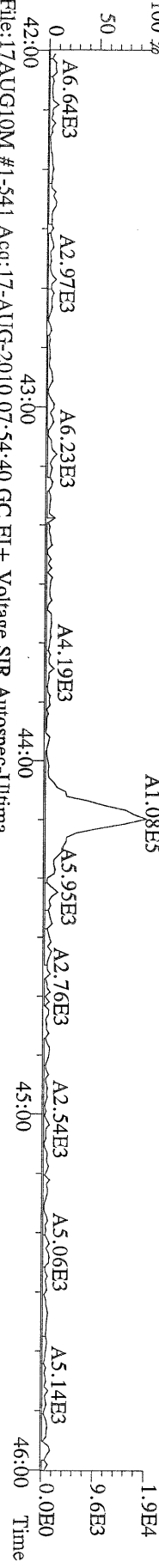
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 423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



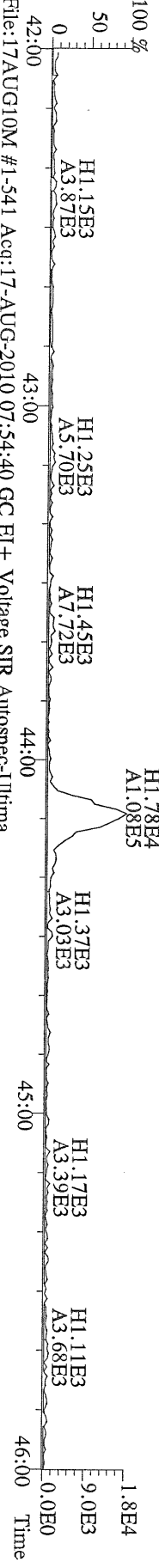
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 425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



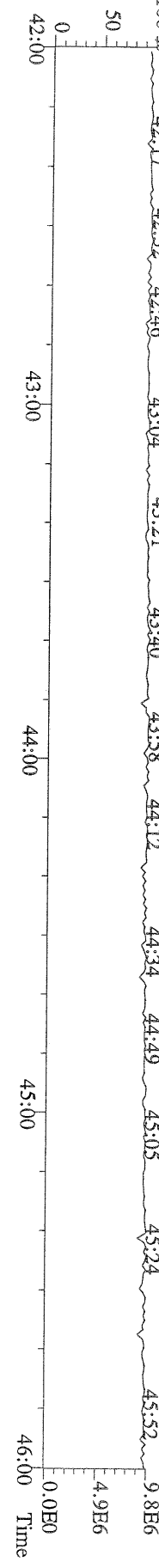
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 435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



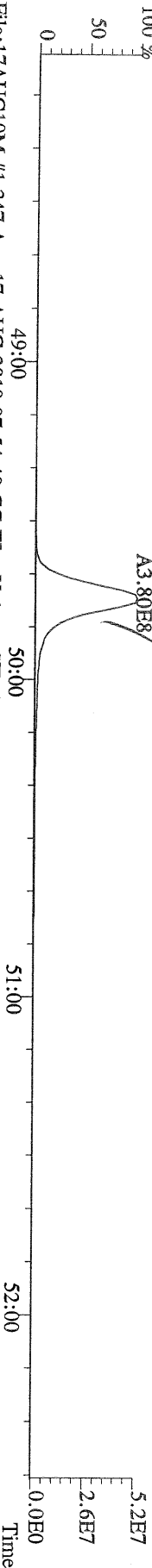
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 437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



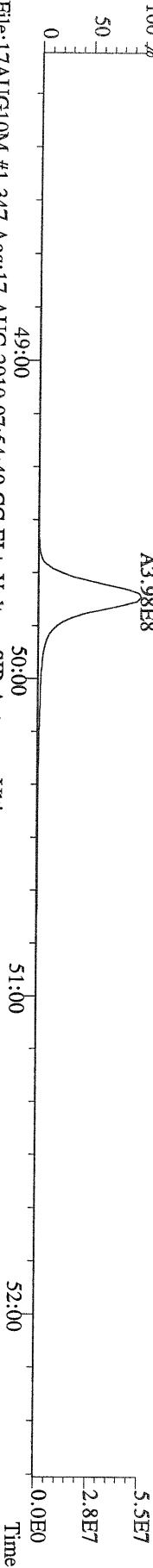
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Utima  
 430.9728 S:14 F:4 Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



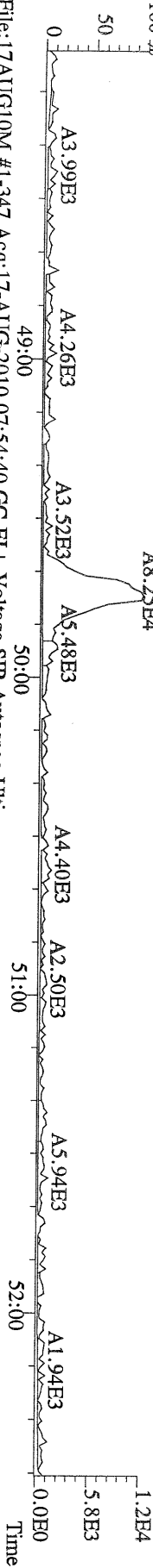
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 457.7377 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



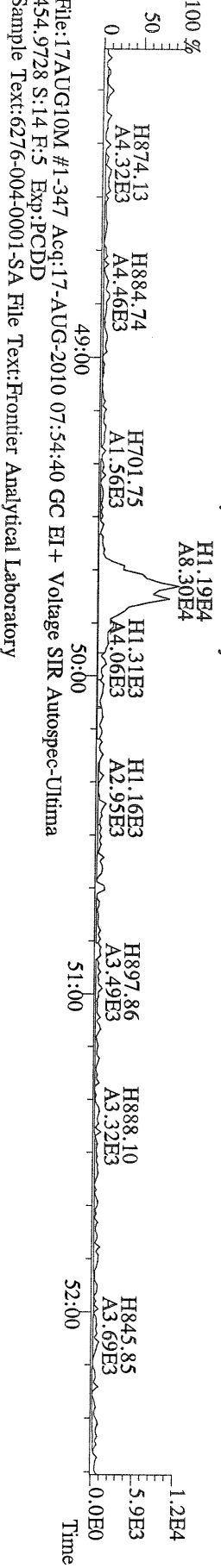
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 459.7348 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



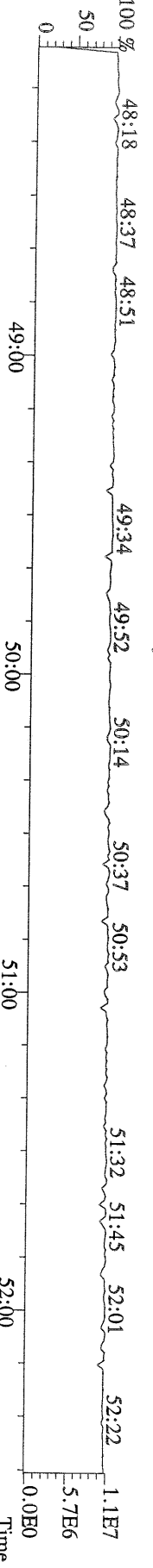
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 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Utima  
 471.7750 S:14 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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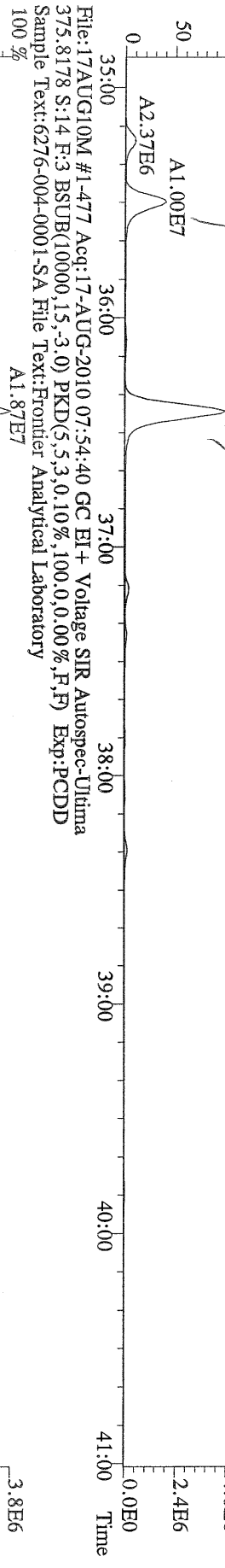


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 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory

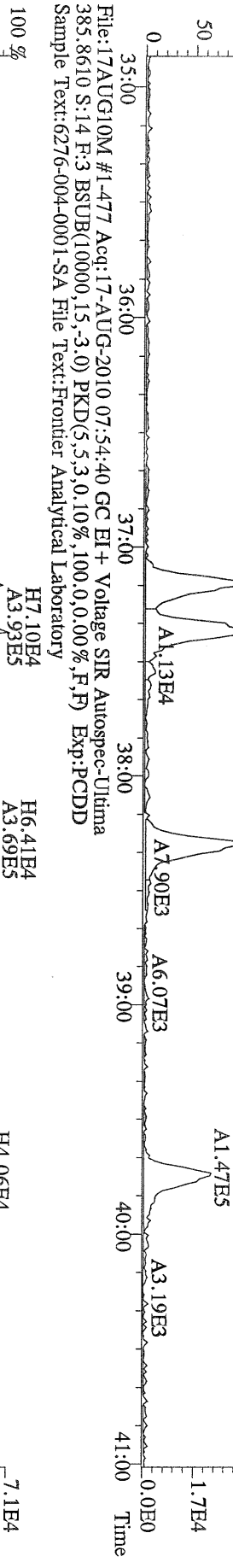




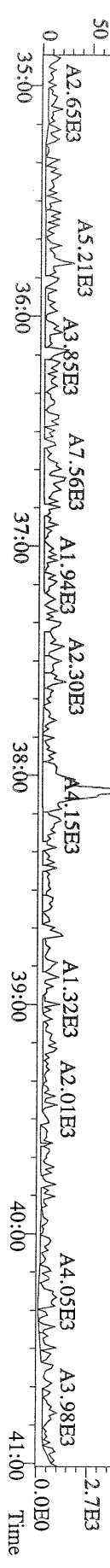
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File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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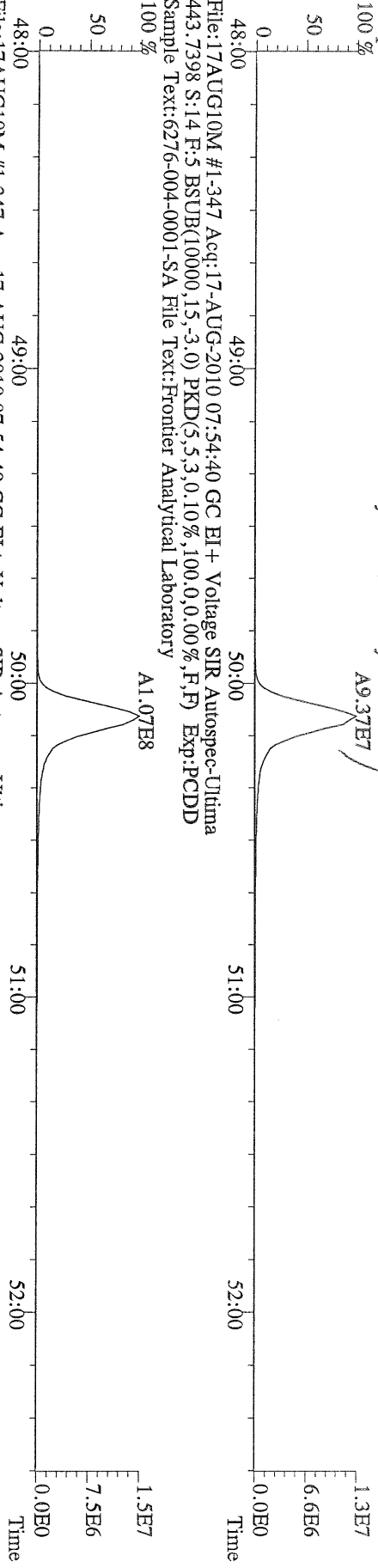


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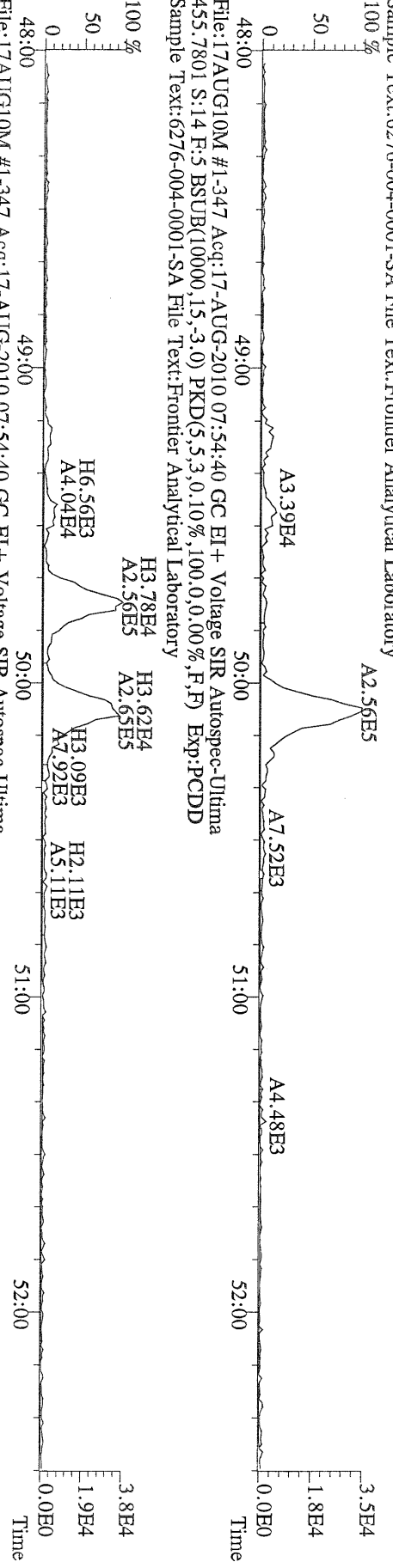




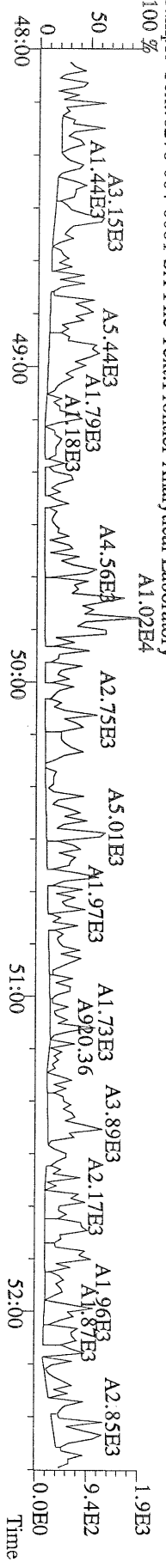
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 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 453.7831 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory





Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 3

Acquired: 17-AUG-10 19:54:40

Total Concentration: 80900

Unnamed Concentration: 67418.378

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:06	7.60e+06	5.52e+06	1.38 y	1.31e+07	28500	
37:29	1.04e+07	7.45e+06	1.40 y	1.79e+07	38900	
38:44	3.78e+06	2.67e+06	1.41 y	6.46e+06	13500	1,2,3,6,7,8-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 4

Acquired: 17-AUG-10 19:54:40

Total Concentration: 938000

Unnamed Concentration: 447381.356

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	9.85e+07	9.82e+07	1.00 y	1.97e+08	447000	
44:11	1.08e+08	1.08e+08	1.00 y	2.16e+08	490000	1,2,3,4,6,7,8-HpCDD

Totals class: Total Hexa-Furans

Entry #: 45

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 3

Acquired: 17-AUG-10 19:54:40

Total Concentration: 85600

Unnamed Concentration: 85642.752

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
35:30	1.00e+07	7.85e+06 1.28 y	1.79e+07	25500	
36:24	2.35e+07	1.87e+07 1.26 y	4.22e+07	60200	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 21

File: 17AUG10M

S: 14 I: 1 F: 4

Acquired: 17-AUG-10 19:54:40

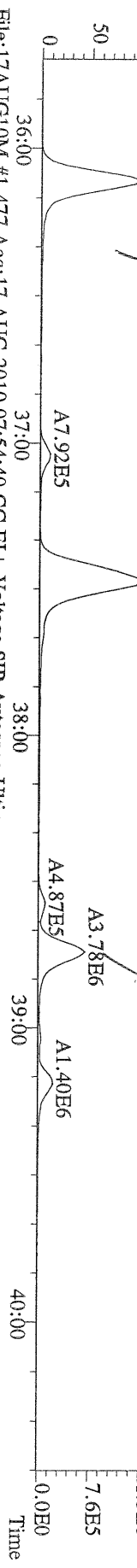
Total Concentration: 515000

Unnamed Concentration: 385173.346

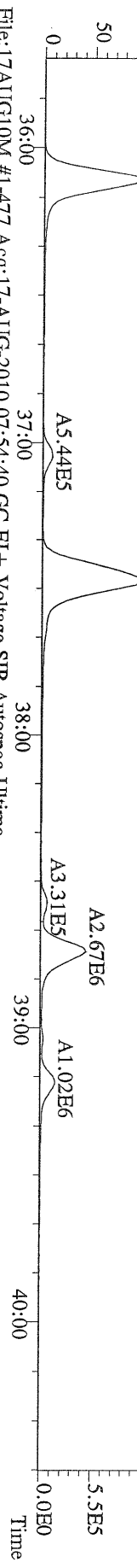
RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	3.57e+07	3.35e+07	1.07 y	6.91e+07	130000	1,2,3,4,6,7,8-HpCDF
43:06	9.79e+07	9.29e+07	1.05 y	1.91e+08	385000	



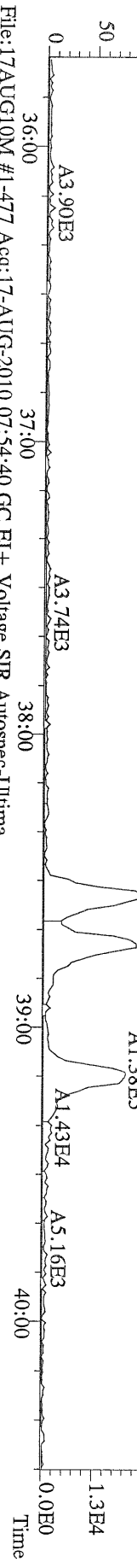
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 389.8156 S:14 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



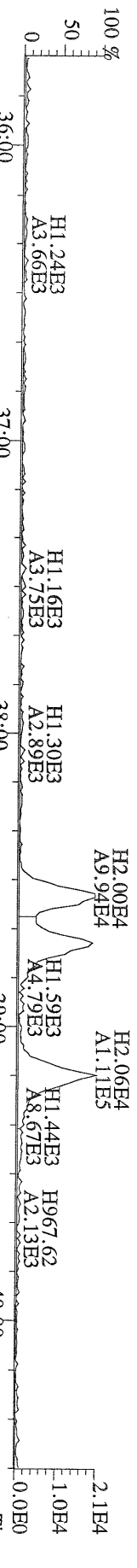
File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 391.8127 S:14 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



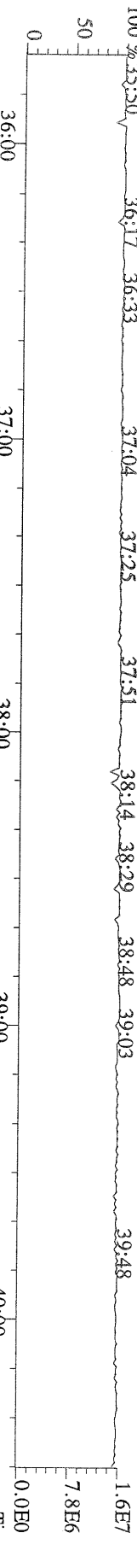
File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:14 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



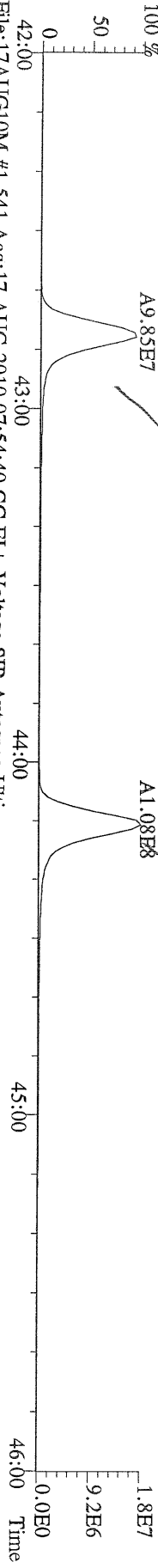
File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:14 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp.:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



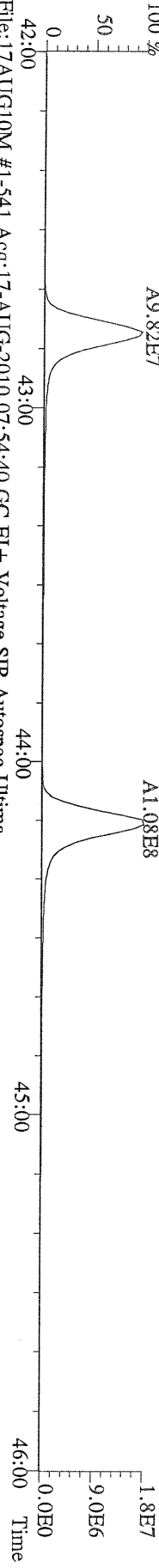
File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:14 F:3 Exp.:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



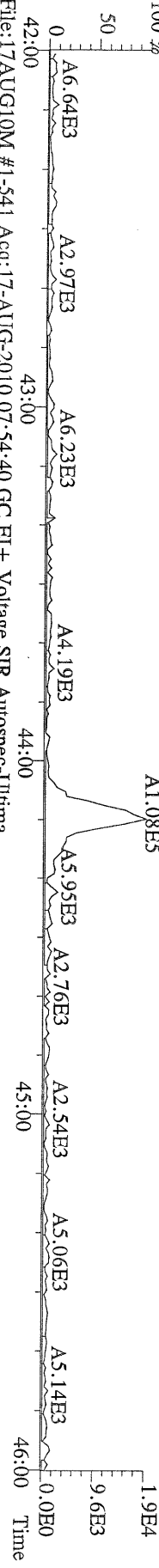
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Utima  
 423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



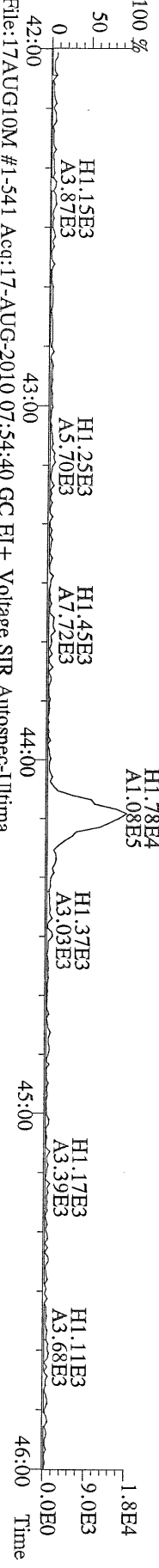
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Utima  
 425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



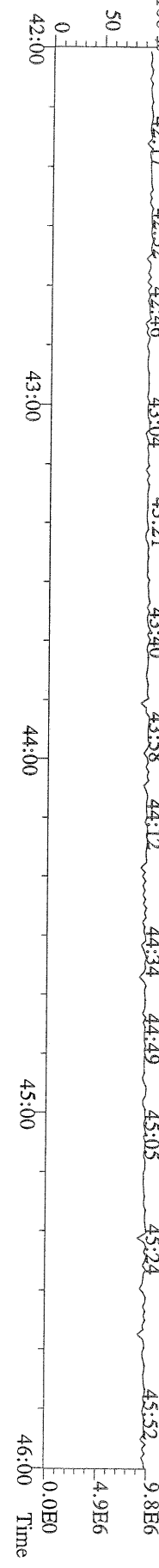
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Utima  
 435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



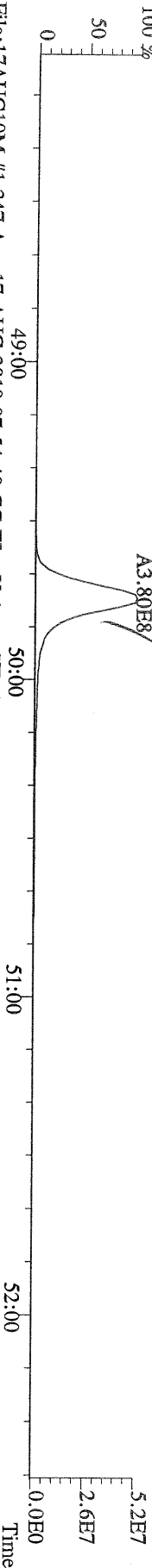
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Utima  
 437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



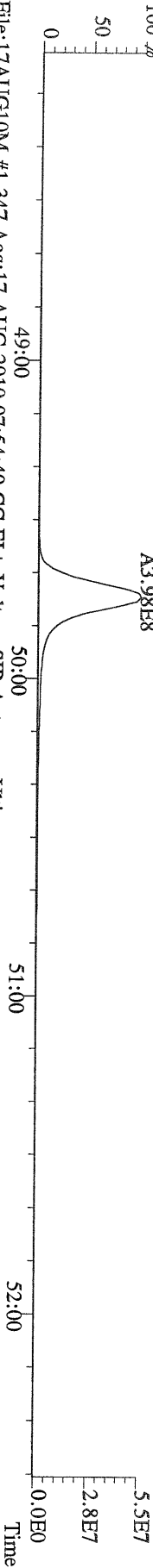
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Utima  
 430.9728 S:14 F:4 Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



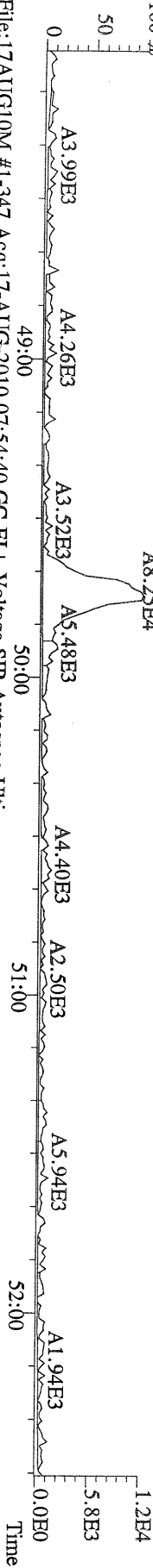
File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 457.7377 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



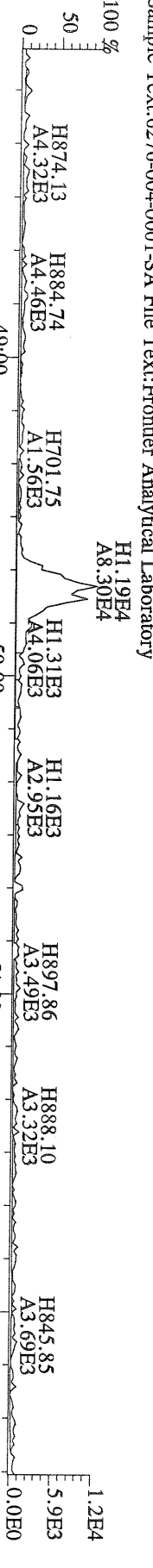
File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 459.7348 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



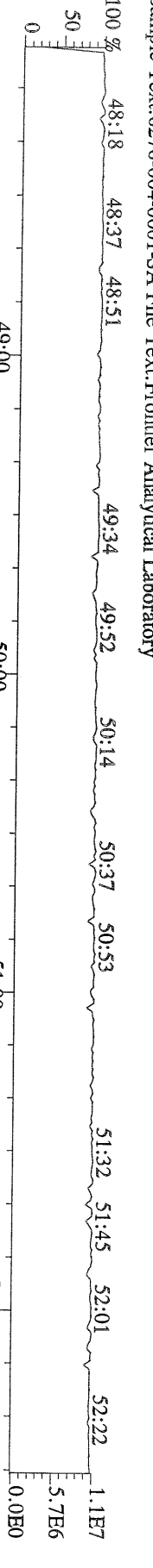
File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 469.7780 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



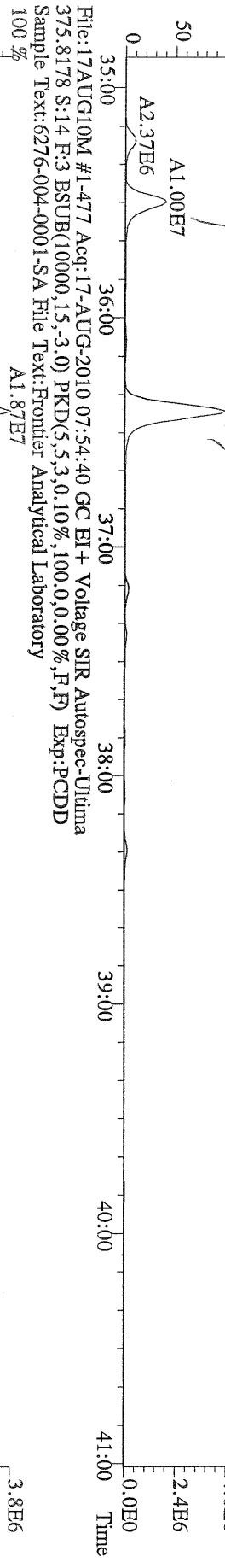
File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 471.7750 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



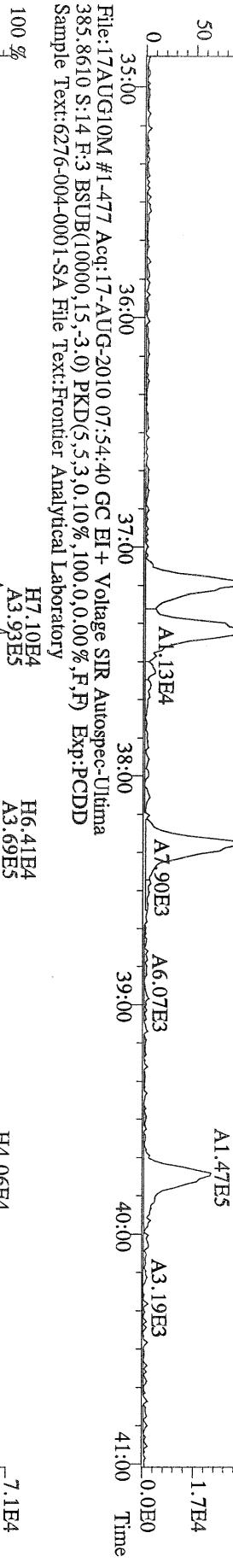
File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 454.9728 S:14 F:5 Exp:PCCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



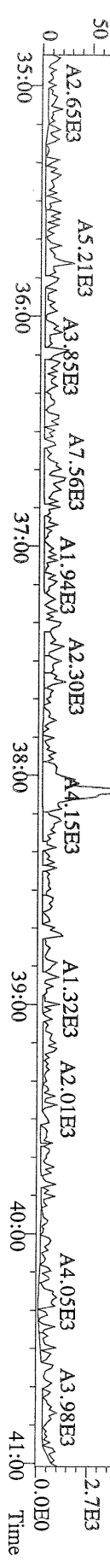
File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



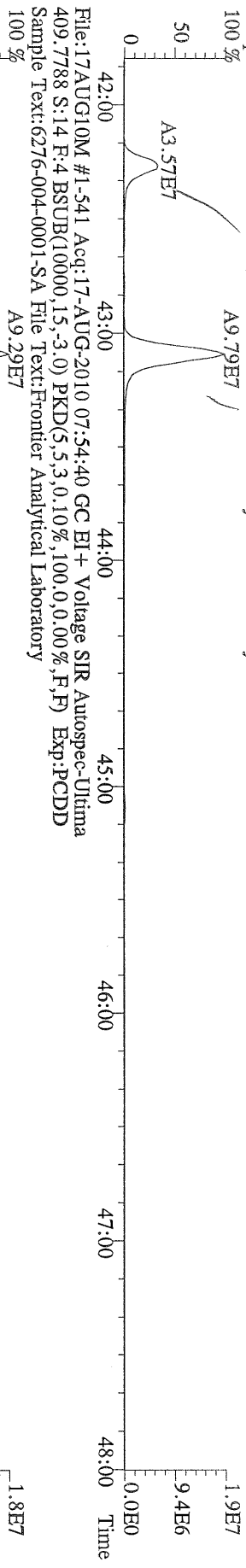
File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



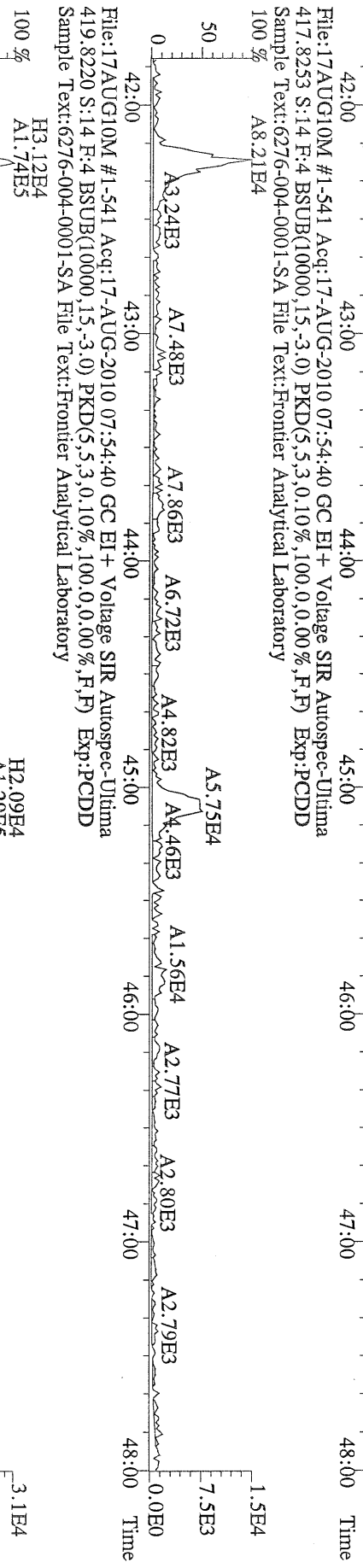
File:17AUG10M #1-477 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



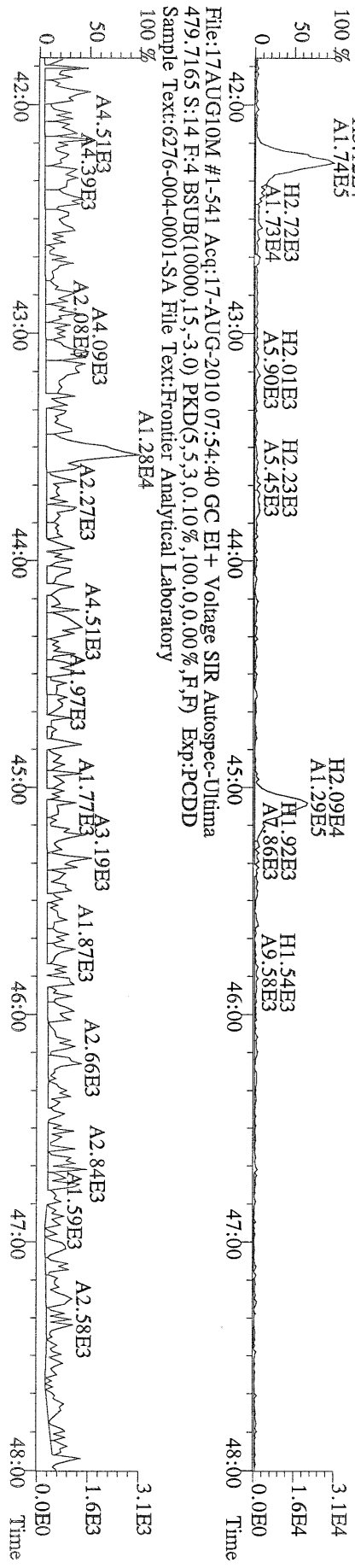
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



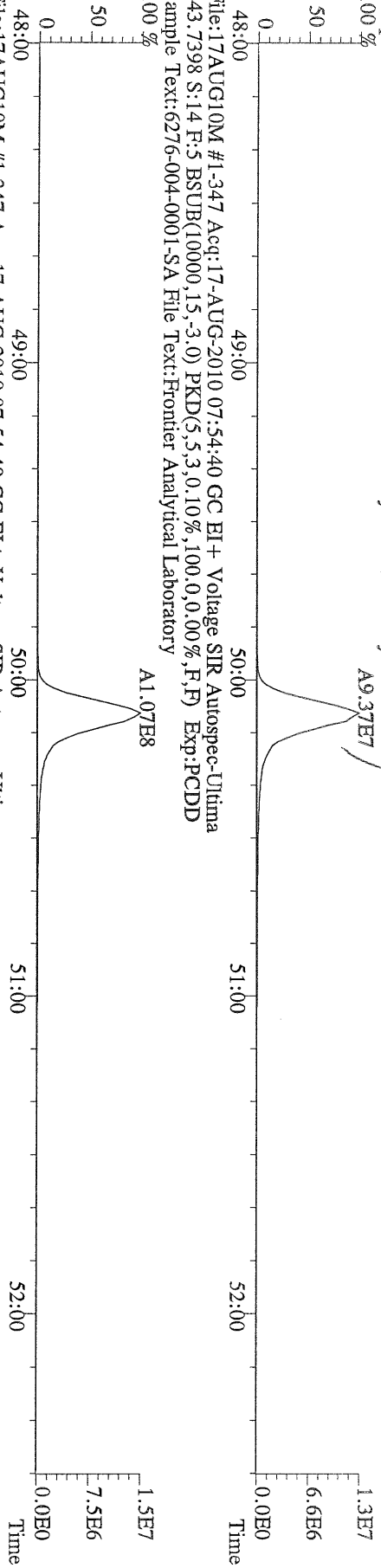
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 417.8253 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



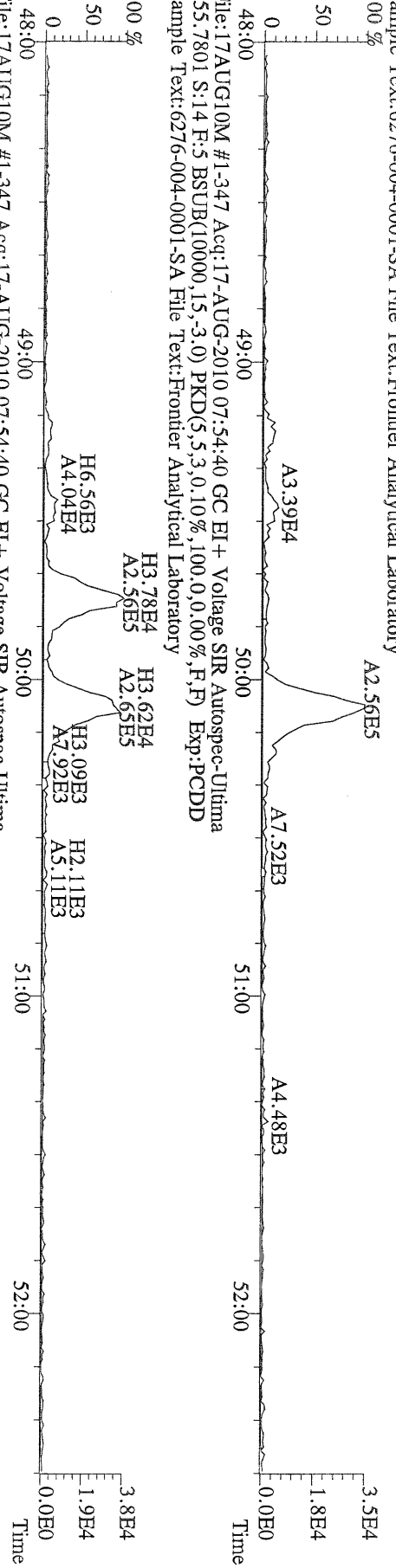
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
 479.7165 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



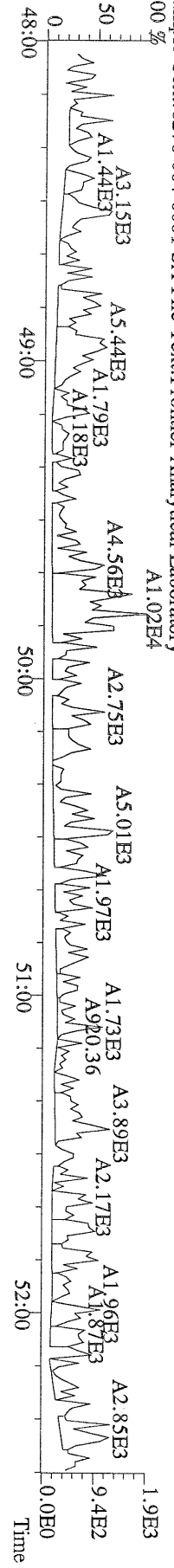
File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
441.7428 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
453.7831 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 07:54:40 GC EI + Voltage SIR Autospec-Ultima  
513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6276-004-0001-SA     Filename: 12AUG10A    Sam:3    Acquired: 12-AUG-10 15:21:07    ICal: TCDFFAL1-4-23-10

Client ID: PSB11-2-4-073010-D

ConCal: ST081210A1    EndCal: ST081210A2

Results:            GC Column: DB225    Amount: 3.010

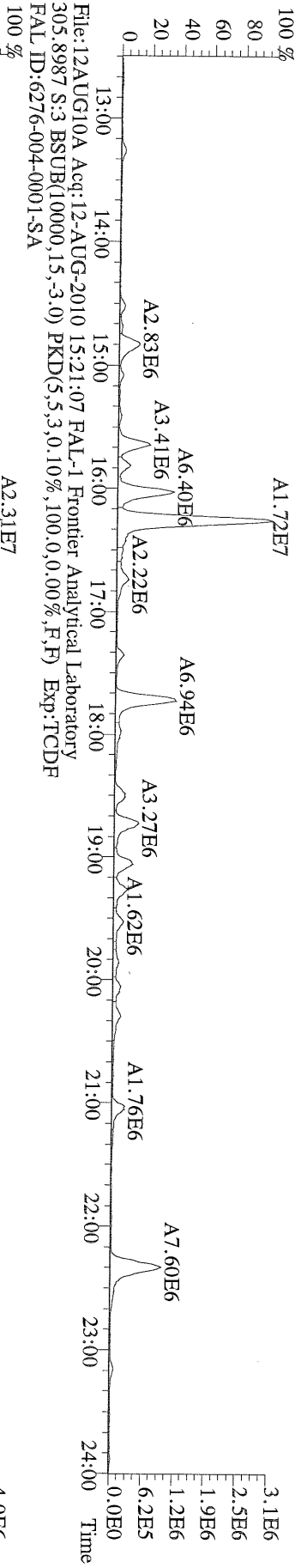
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	#Hom
2,3,7,8-TCDF	4.37e+06	0.78 y	19:16	1.20	42.3		2.50	-	-	1
13C-2,3,7,8-TCDF	5.70e+07	0.74 y	19:14	0.94	625					
13C-1,2,3,4-TCDF	6.45e+07	0.79 y	16:44	-	13.0					

Rec  
94.1

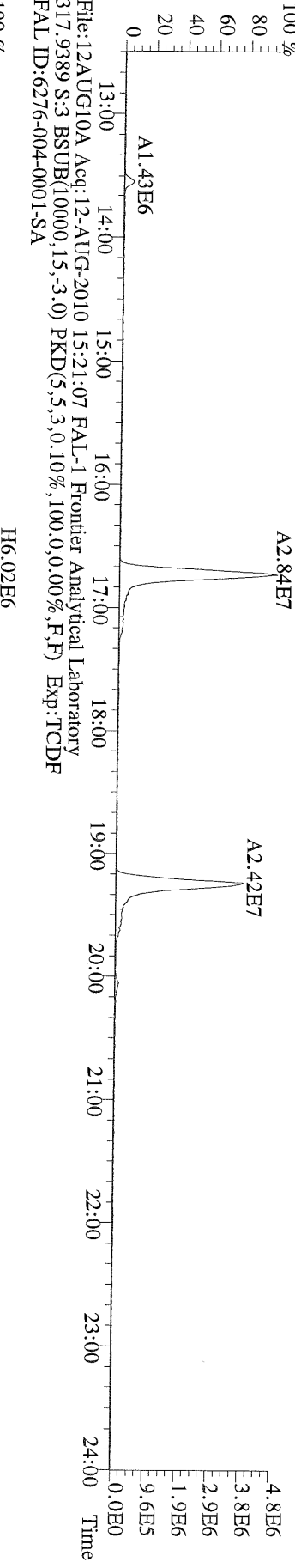
Analyst: 

Date: 8/13/10

File:12AUG10A Acq:12-AUG-2010 15:21:07 FAL-1 Frontier Analytical Laboratory  
 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
 FAL ID:6276-004-0001-SA



File:12AUG10A Acq:12-AUG-2010 15:21:07 FAL-1 Frontier Analytical Laboratory  
 315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
 FAL ID:6276-004-0001-SA




File:12AUG10A Acq:12-AUG-2010 15:21:07 FAL-1 Frontier Analytical Laboratory  
 317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
 FAL ID:6276-004-0001-SA





FAL ID: 6276-005-0001-SA      Filename: 09AUG10M      Sam:8      Acquired: 9-AUG-10 21:42:20      ICal: PCDDFAL3-5-12-10  
 Client ID: PSB15-0-0.5-073010      ConCal: ST080910M2      EndCal: ST080910M3  
 Results: 6276      GC Column: DB5      Amount: 3.010      NATO 1989 Tox: 771      WHO 1998 Tox: 950      WHO 2005 Tox: 938

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec
2,3,7,8-TCDD	3.18e+06	0.72 y	27:26	1.04	76.1		2.50	-	*	
1,2,3,7,8-PeCDD	1.32e+07	1.57 y	33:15	1.05	359		2.50	-	*	
1,2,3,4,7,8-HxCDD	1.24e+07	1.34 y	38:36	1.30	391		2.50	-	*	
1,2,3,6,7,8-HxCDD	6.81e+07	1.34 y	38:46	1.28	2190		2.50	-	*	
1,2,3,7,8,9-HxCDD	4.14e+07	1.37 y	39:13	1.25	1360		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.35	* 83,200	*	2.50	-	*	
OCDD	*	* n	NotFnd	1.25	* 903,000	*	2.50	-	*	
2,3,7,8-TCDF	9.30e+05	0.73 y	26:40	1.62	9.80	ex 00301 F	2.50	-	*	
1,2,3,7,8-PeCDF	1.39e+06	1.43 y	31:31	0.92	29.3		2.50	-	*	
2,3,4,7,8-PeCDF	2.78e+06	1.48 y	32:51	0.94	58.9		2.50	-	*	
1,2,3,4,7,8-HxCDF	1.37e+07	1.23 y	37:13	0.93	310		2.50	-	*	
1,2,3,6,7,8-HxCDF	9.05e+06	1.21 y	37:25	0.84	199		2.50	-	*	
2,3,4,6,7,8-HxCDF	1.22e+07	1.20 y	38:22	0.90	296		2.50	-	*	
1,2,3,7,8,9-HxCDF	1.65e+06	1.23 y	39:51	0.98	40.4		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.38	* 19,400	*	2.50	-	*	
1,2,3,4,7,8,9-HpCDF	1.75e+07	1.06 y	45:08	1.62	469	* 80,700	2.50	-	*	
OCDF	*	* n	NotFnd	0.74	*	*	2.50	-	*	
13C-2,3,7,8-TCDD	2.68e+07	0.80 y	27:25	0.93	633					95.3
13C-1,2,3,7,8-PeCDD	2.34e+07	1.75 y	33:13	0.81	633					95.3
13C-1,2,3,4,7,8-HxCDD	1.63e+07	1.19 y	38:35	0.95	614					92.4
13C-1,2,3,6,7,8-HxCDD	1.61e+07	1.20 y	38:45	1.00	579					87.1
13C-1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	0.92	*	*				* 95.4
13C-OCDD	*	* n	NotFnd	0.63	*	*				* 106
13C-2,3,7,8-TCDF	3.90e+07	0.86 y	26:39	0.87	640					96.3
13C-1,2,3,7,8-PeCDF	3.45e+07	1.66 y	31:29	0.81	610					91.8
13C-2,3,4,7,8-PeCDF	3.32e+07	1.68 y	32:49	0.75	631					94.9
13C-1,2,3,4,7,8-HxCDF	3.16e+07	0.52 y	37:12	1.74	648					97.6
13C-1,2,3,6,7,8-HxCDF	3.60e+07	0.51 y	37:24	2.17	592					89.1
13C-2,3,4,6,7,8-HxCDF	3.06e+07	0.52 y	38:19	1.82	602					90.6
13C-1,2,3,7,8,9-HxCDF	2.76e+07	0.52 y	39:47	1.49	662					99.7
13C-1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.10	*	*				* 84.6
13C-1,2,3,4,7,8,9-HpCDF	1.53e+07	0.43 y	45:07	0.81	668					100
13C-OCDF	*	* n	NotFnd	1.19	*	*				* 96.2
37Cl-2,3,7,8-TCDD	1.06e+07		27:26	0.93	248					93.5
13C-1,2,3,4-TCDD	3.04e+07	0.85 y	26:50	-	29.8					
13C-1,2,3,4-TCDF	4.66e+07	0.87 y	25:34	-	29.0					
13C-1,2,3,7,8,9-HxCDD	1.86e+07	1.21 y	39:12	-	28.7					
Total Tetra-Dioxins	6.75e+07		24:26	1.04	1610		2.50	-	*	16
Total Penta-Dioxins	1.35e+08		30:16	1.05	3660		2.50	-	*	10
Total Hexa-Dioxins	3.37e+08		36:09	1.27	10800	19,700*	2.50	-	*	7
Total Hepta-Dioxins	*		NotFnd	1.35	*	177,000*	2.50	-	*	0
Total Tetra-Furans	5.37e+07		23:06	1.62	566	D,M	2.50	-	*	26
1st Fn. Tot Penta-Furans	4.41e+07		28:28	0.93	931	D,M	2.50	-	*	PeCDF 1
Total Penta-Furans	4.47e+07		30:05	0.93	943	D,M	2.50	-	*	1870 18
Total Hexa-Furans	2.34e+08		35:16	0.90	5450	D,M,*	2.50	13,000-	*	10
Total Hepta-Furans	2.36e+07		42:52	1.48	648	D,M,*	2.50	62,900-	*	2

Analyst:       Date: 8/10/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 15

File: 09AUG10M

S: 8 I: 1 F: 1

Acquired: 9-AUG-10 21:42:20

Total Concentration: 1610

Unnamed Concentration: 1536.780

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:26	8.18e+05	1.08e+06	0.75 y	1.90e+06	45.5	
24:42	8.88e+05	1.18e+06	0.75 y	2.07e+06	49.5	
25:01	2.39e+06	3.15e+06	0.76 y	5.54e+06	132	
25:38	2.14e+06	2.88e+06	0.74 y	5.02e+06	120	
25:50	4.11e+06	5.63e+06	0.73 y	9.74e+06	233	
25:59	2.37e+06	3.17e+06	0.75 y	5.54e+06	132	
26:08	1.01e+06	1.37e+06	0.74 y	2.38e+06	56.9	
26:20	1.05e+06	1.42e+06	0.74 y	2.47e+06	58.9	
26:31	2.13e+06	2.87e+06	0.74 y	5.00e+06	120	
26:48	3.60e+06	4.92e+06	0.73 y	8.52e+06	204	
27:10	1.30e+06	1.76e+06	0.74 y	3.06e+06	73.1	
27:18	1.22e+06	1.53e+06	0.80 y	2.75e+06	65.8	
27:26	1.33e+06	1.85e+06	0.72 y	3.18e+06	76.1	2,3,7,8-TCDD
27:44	2.07e+06	2.74e+06	0.75 y	4.81e+06	115	
27:51	5.68e+05	7.94e+05	0.72 y	1.36e+06	32.5	
28:21	1.73e+06	2.40e+06	0.72 y	4.14e+06	98.9	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 15

File: 09AUG10M

S: 8 I: 1 F: 2

Acquired: 9-AUG-10 21:42:20

Total Concentration: 3660

Unnamed Concentration: 3298.098

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:16	1.45e+07	9.18e+06	1.58 y	2.37e+07	643	
30:52	1.10e+07	6.90e+06	1.60 y	1.79e+07	486	
31:29	3.95e+06	2.53e+06	1.56 y	6.49e+06	176	
31:43	9.85e+06	6.26e+06	1.57 y	1.61e+07	437	
31:51	6.35e+06	4.02e+06	1.58 y	1.04e+07	281	
32:09	1.64e+07	1.05e+07	1.57 y	2.69e+07	730	
32:38	2.78e+06	1.79e+06	1.55 y	4.57e+06	124	
33:15	8.08e+06	5.14e+06	1.57 y	1.32e+07	359	1,2,3,7,8-PeCDD
33:21	3.41e+06	2.18e+06	1.57 y	5.59e+06	152	
33:49	6.04e+06	3.88e+06	1.56 y	9.92e+06	269	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 15 File: 09AUG10M  
Acquired: 9-AUG-10 21:42:20

S: 8 I: 1 F: 3

Total Concentration: 10800

Unnamed Concentration: 6902.652

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:09	9.29e+07	6.92e+07	1.34 y	1.62e+08	5210	
37:04	1.30e+07	9.56e+06	1.36 y	2.25e+07	724	
37:41	9.32e+06	6.67e+06	1.40 y	1.60e+07	514	
38:36	7.11e+06	5.32e+06	1.34 y	1.24e+07	391	1,2,3,4,7,8-HxCDD
38:46	3.90e+07	2.91e+07	1.34 y	6.81e+07	2190	1,2,3,6,7,8-HxCDD
39:04	7.98e+06	6.05e+06	1.32 y	1.40e+07	451	
39:13	2.39e+07	1.75e+07	1.37 y	4.14e+07	1360	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 15

File: 09AUG10M

S: 8 I: 1 F: 4

Acquired: 9-AUG-10 21:42:20

Total Concentration: \*

Unnamed Concentration: \*

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
NotF <sub>1</sub>	*	**	n	*	*	

Totals class: Total Tetra-Furans

Entry #: 42

Run: 15

File: 09AUG10M

S: 8 I: 1 F: 1

Acquired: 9-AUG-10 21:42:20

Total Concentration: 566

Unnamed Concentration: 555.848

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:06	1.70e+05	2.56e+05	0.66 y	4.26e+05	4.49	
23:27	1.23e+06	1.82e+06	0.68 y	3.05e+06	32.1	
23:41	1.38e+05	2.06e+05	0.67 y	3.44e+05	3.63	
23:50	2.40e+06	3.65e+06	0.66 y	6.05e+06	63.7	
24:10	1.81e+06	2.76e+06	0.65 y	4.57e+06	48.1	
24:28	1.72e+06	2.56e+06	0.67 y	4.28e+06	45.1	
24:46	1.60e+06	2.43e+06	0.66 y	4.03e+06	42.5	
24:52	3.94e+05	5.73e+05	0.69 y	9.67e+05	10.2	
24:59	4.41e+05	6.15e+05	0.72 y	1.06e+06	11.1	
25:21	6.91e+05	1.01e+06	0.69 y	1.70e+06	17.9	
25:28	1.41e+06	2.15e+06	0.66 y	3.56e+06	37.5	
25:35	1.13e+06	1.71e+06	0.66 y	2.84e+06	29.9	
25:50	2.33e+05	3.55e+05	0.66 y	5.87e+05	6.19	
25:57	6.13e+05	9.34e+05	0.66 y	1.55e+06	16.3	
26:11	3.53e+05	5.29e+05	0.67 y	8.83e+05	9.30	
26:19	3.86e+05	5.75e+05	0.67 y	9.61e+05	10.1	
26:30	3.85e+05	5.71e+05	0.67 y	9.55e+05	10.1	
26:34	6.11e+05	9.00e+05	0.68 y	1.51e+06	15.9	
26:40	3.92e+05	5.38e+05	0.73 y	9.30e+05	9.80	2,3,7,8-TCDF
27:00	5.24e+05	7.92e+05	0.66 y	1.32e+06	13.9	
27:14	1.12e+05	1.61e+05	0.69 y	2.72e+05	2.87	
27:25	7.44e+05	1.13e+06	0.66 y	1.87e+06	19.7	
27:53	1.76e+06	2.63e+06	0.67 y	4.39e+06	46.2	
28:06	1.53e+06	2.28e+06	0.67 y	3.80e+06	40.1	
28:28	5.77e+05	8.78e+05	0.66 y	1.46e+06	15.3	
28:34	1.30e+05	1.98e+05	0.66 y	3.28e+05	3.45	

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

Run: 15      File: 09AUG10M      S: 8 I: 1 F: 1  
Acquired: 9-AUG-10 21:42:20

Total Concentration: 931      Unnamed Concentration: 931.013

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:28	2.73e+07	1.68e+07	1.62 y	4.41e+07	931	

Totals class: Total Penta-Furans

Entry #: 44

Run: 15 File: 09AUG10M S: 8 I: 1 F: 2  
Acquired: 9-AUG-10 21:42:20

Total Concentration: 943

Unnamed Concentration: 854.794

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:05	1.84e+06	1.31e+06	1.41 y	3.15e+06	66.4	
30:15	1.11e+07	7.62e+06	1.45 y	1.87e+07	394	
30:29	2.31e+05	1.65e+05	1.40 y	3.95e+05	8.34	
30:43	4.16e+05	3.00e+05	1.39 y	7.16e+05	15.1	
30:58	4.18e+06	2.91e+06	1.44 y	7.09e+06	150	
31:16	5.43e+05	3.81e+05	1.43 y	9.24e+05	19.5	
31:31	8.21e+05	5.74e+05	1.43 y	1.39e+06	29.3	1,2,3,7,8-PeCDF
31:51	2.33e+06	1.62e+06	1.43 y	3.95e+06	83.3	
32:04	1.62e+05	1.10e+05	1.48 y	2.72e+05	5.73	
32:33	1.22e+05	8.65e+04	1.41 y	2.09e+05	4.40	
32:41	4.91e+05	3.46e+05	1.42 y	8.38e+05	17.7	
32:51	1.66e+06	1.12e+06	1.48 y	2.78e+06	58.9	2,3,4,7,8-PeCDF
32:52	1.55e+06	1.12e+06	1.38 y	2.67e+06	56.4	
33:16	1.18e+05	8.69e+04	1.36 y	2.05e+05	4.32	
33:47	7.78e+04	5.90e+04	1.32 y	1.37e+05	2.88	
33:58	6.95e+04	5.11e+04	1.36 y	1.21e+05	2.54	
34:08	5.68e+05	4.01e+05	1.42 y	9.70e+05	20.5	
34:13	1.14e+05	8.26e+04	1.38 y	1.96e+05	4.14	



Totals class: Total Hexa-Furans

Entry #: 45

Run: 15

File: 09AUG10M

S: 8 I: 1 F: 3

Acquired: 9-AUG-10 21:42:20

Total Concentration: 5450

Unnamed Concentration: 4603.929

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:16	1.93e+07	1.59e+07	1.21 y	3.51e+07	820	
35:32	8.41e+07	6.88e+07	1.22 y	1.53e+08	3570	
36:08	3.15e+06	2.56e+06	1.23 y	5.71e+06	133	
37:03	9.07e+05	7.66e+05	1.18 y	1.67e+06	39.1	
37:13	7.56e+06	6.15e+06	1.23 y	1.37e+07	310	1,2,3,4,7,8-HxCDF
37:25	4.96e+06	4.09e+06	1.21 y	9.05e+06	199	1,2,3,6,7,8-HxCDF
37:52	4.02e+05	3.04e+05	1.32 y	7.06e+05	16.5	
38:07	5.26e+05	4.76e+05	1.10 y	1.00e+06	23.4	
38:22	6.68e+06	5.55e+06	1.20 y	1.22e+07	296	2,3,4,6,7,8-HxCDF
39:51	9.10e+05	7.41e+05	1.23 y	1.65e+06	40.4	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 15

File: 09AUG10M

S: 8 I: 1 F: 4

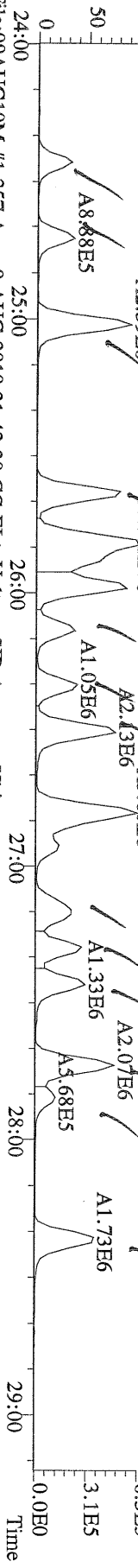
Acquired: 9-AUG-10 21:42:20

Total Concentration: 648

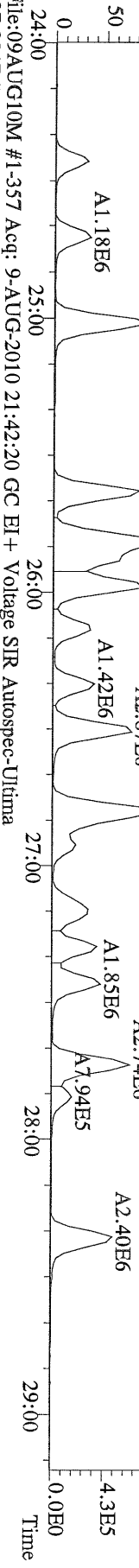
Unnamed Concentration: \*

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:52	3.10e+06	2.98e+06	1.04 y	6.08e+06	178	1,2,3,4,6,7,8-HpCDF <i>8/11/10</i>
45:08	8.99e+06	8.51e+06	1.06 y	1.75e+07	469	1,2,3,4,7,8,9-HpCDF

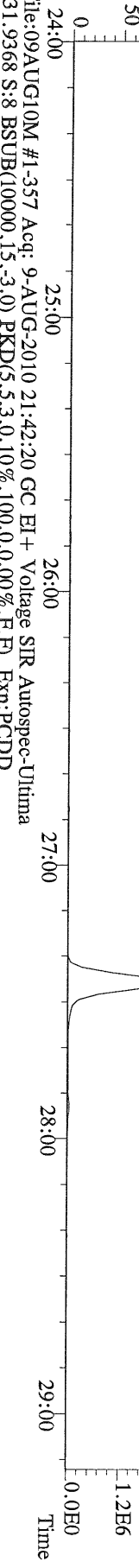
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319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:09AUG10M #1-357 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



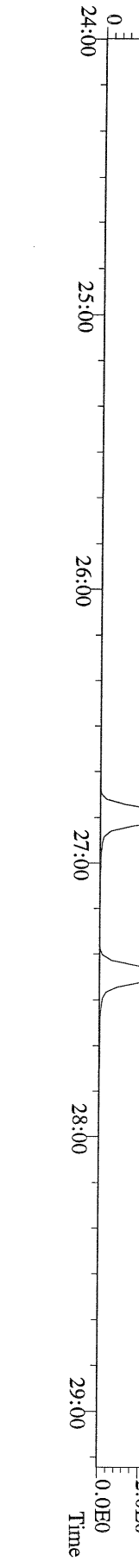
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327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



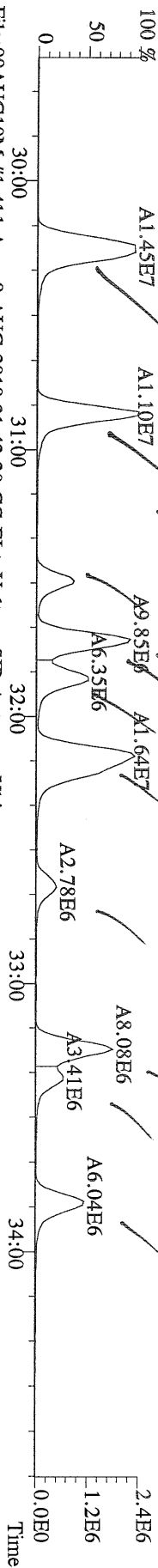
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331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



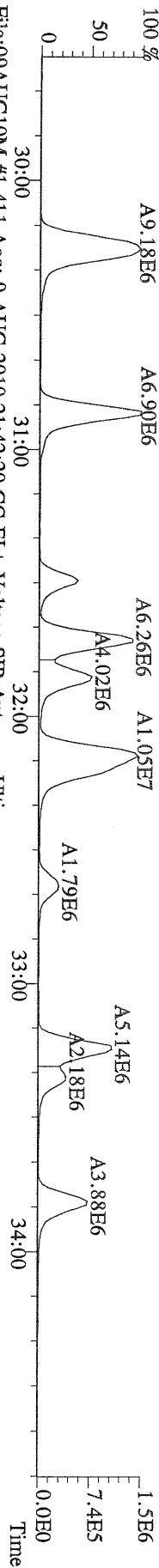
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333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



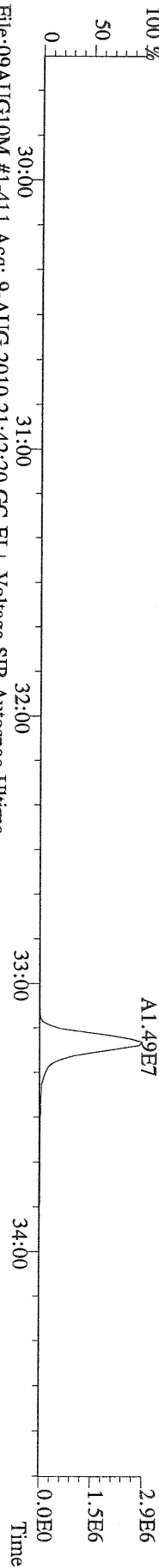
File:09AUG10M #1-411 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



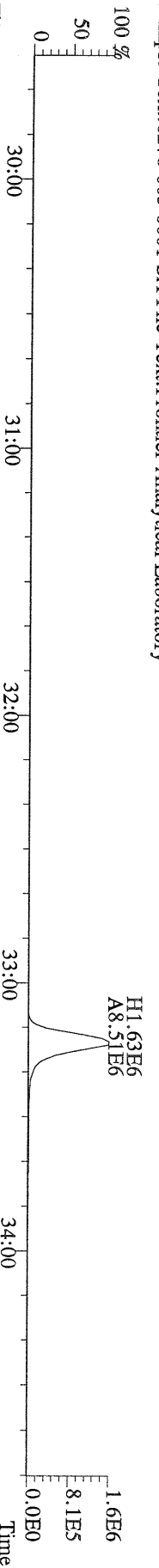
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 357.8517 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



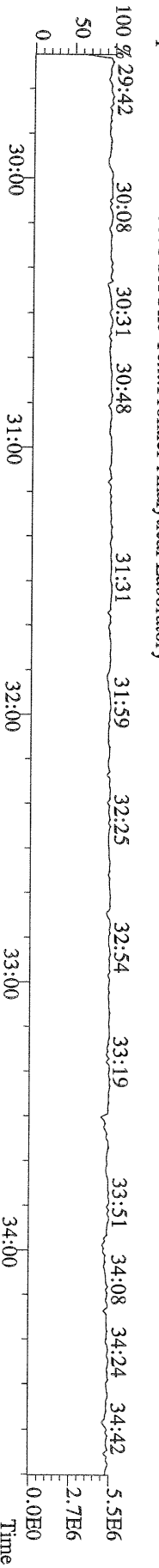
File:09AUG10M #1-411 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



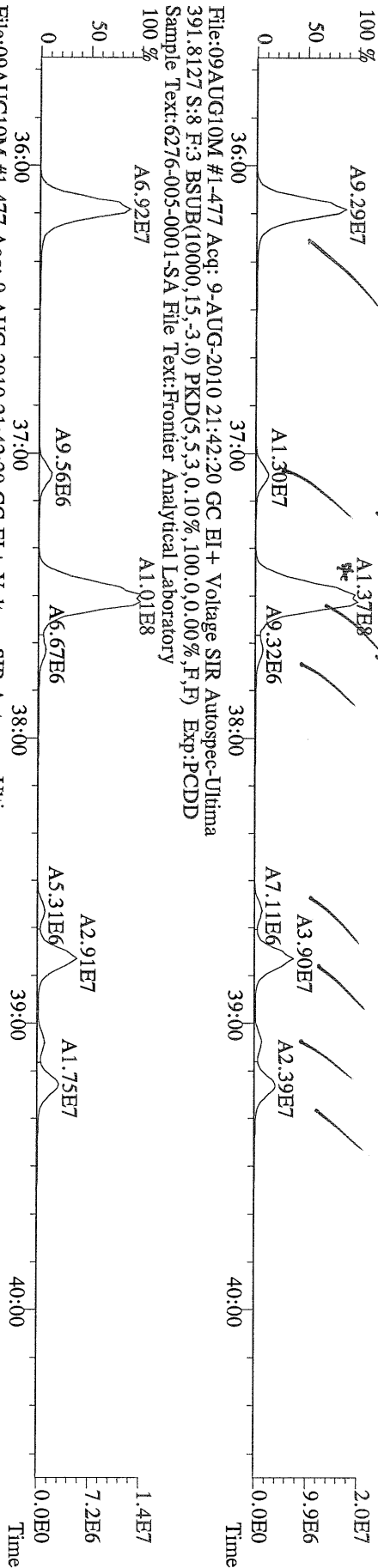
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 369.8919 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



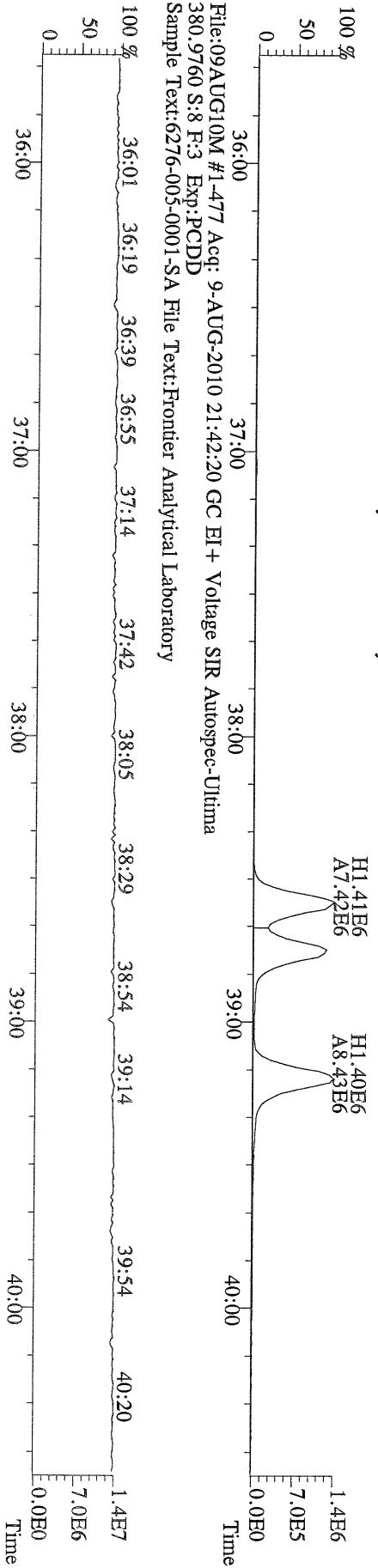
File:09AUG10M #1-411 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:8 F:2 Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



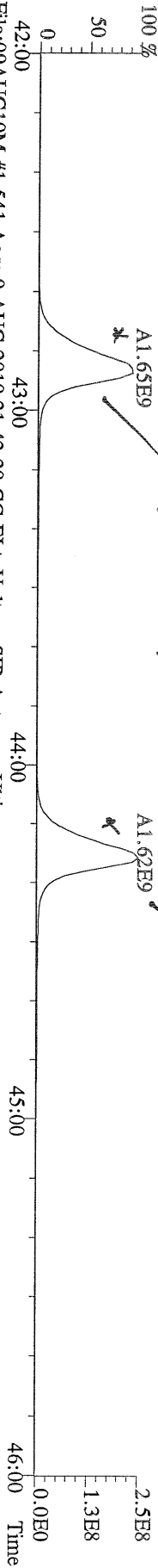
File:09AUG10M #1-477 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



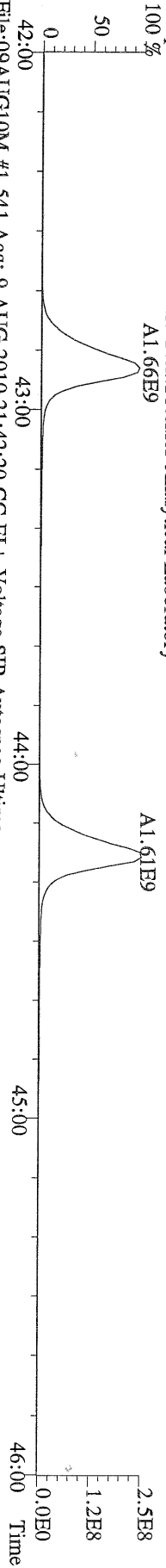
File:09AUG10M #1-477 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



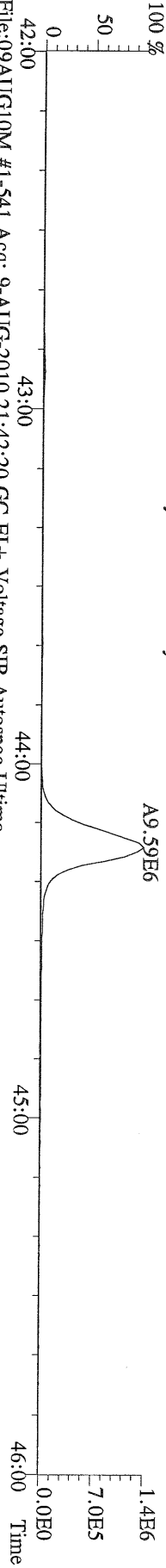
File:09AUG10M #1-541 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



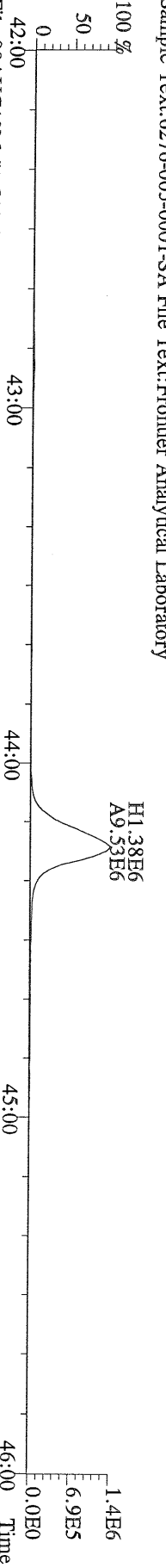
File:09AUG10M #1-541 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
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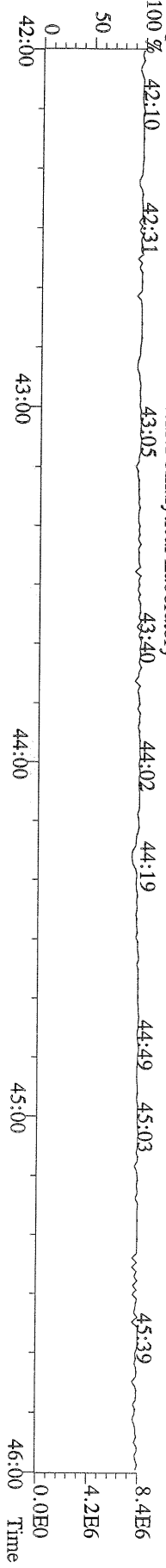
File:09AUG10M #1-541 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
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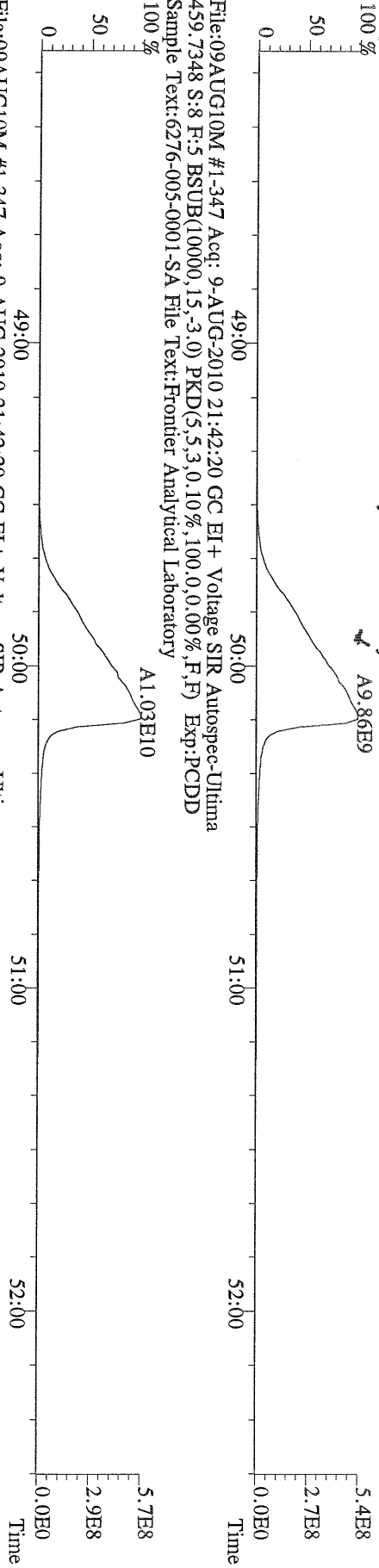
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437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
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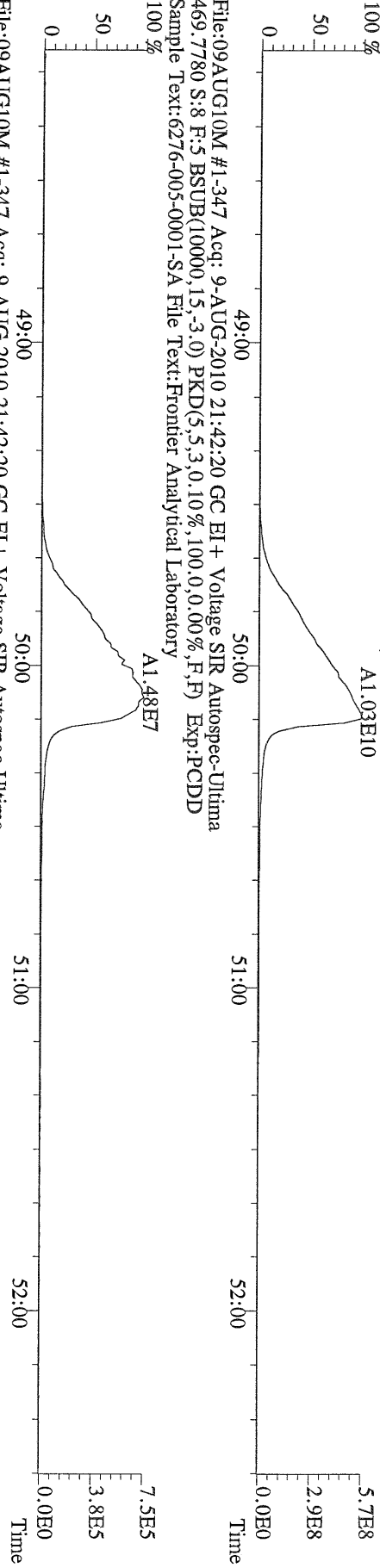
File:09AUG10M #1-541 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:8 F:4 Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



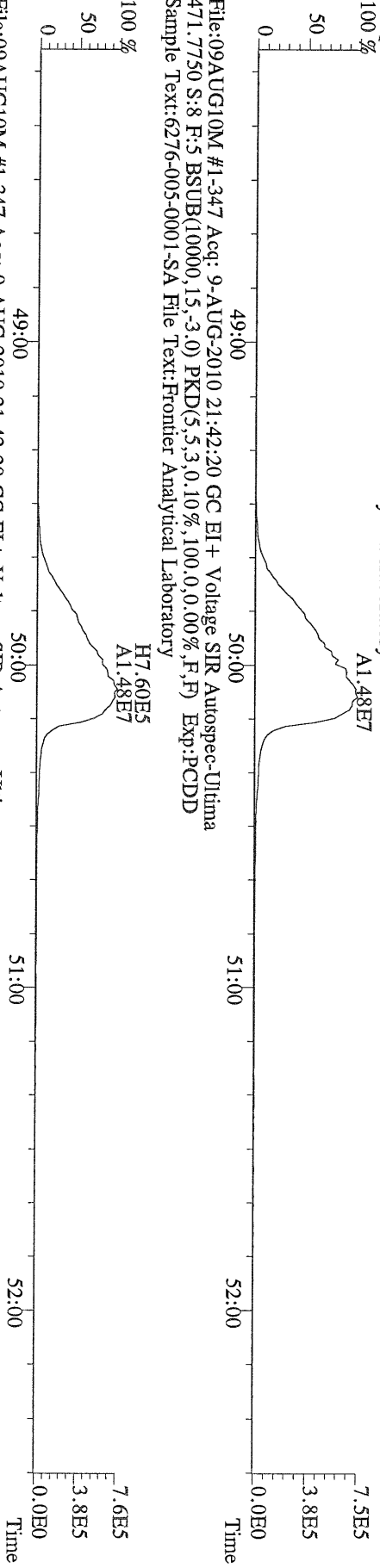
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457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



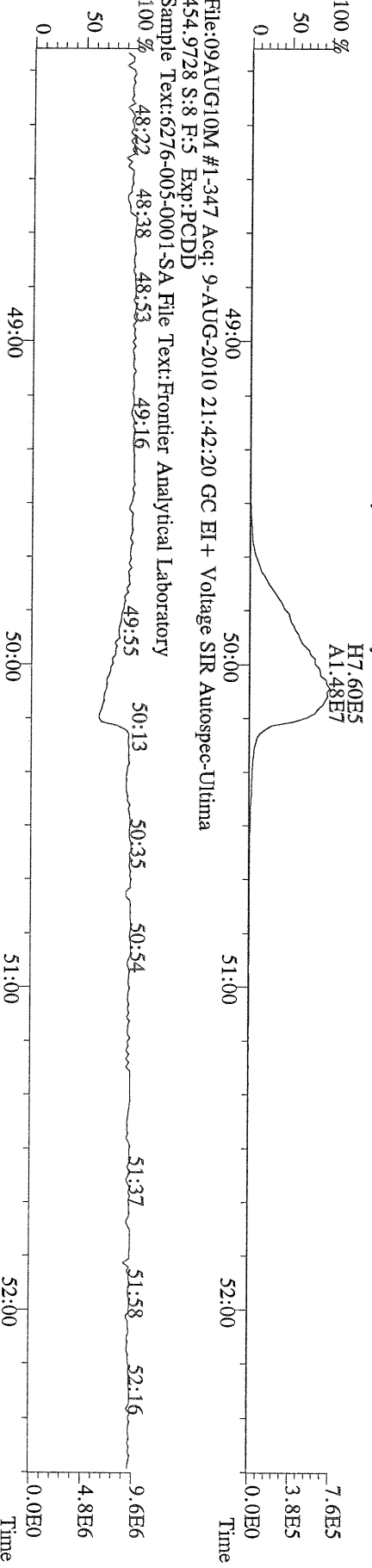
File:09AUG10M #1-347 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



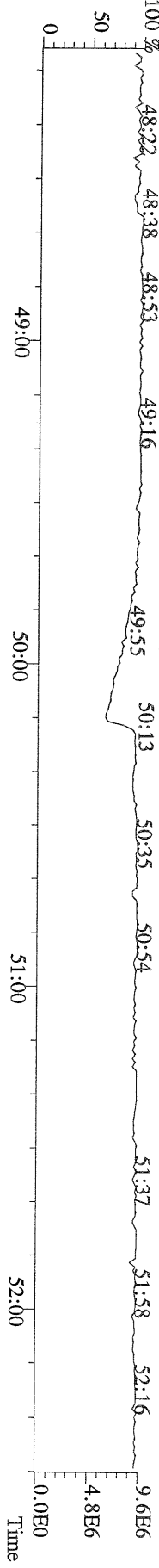
File:09AUG10M #1-347 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



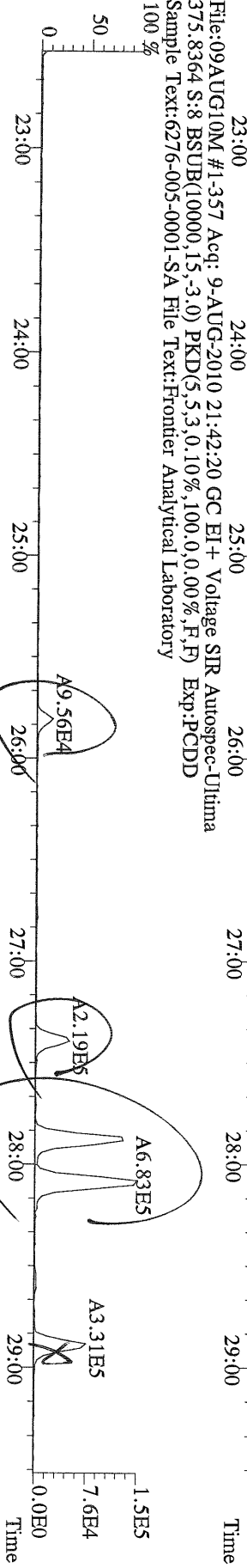
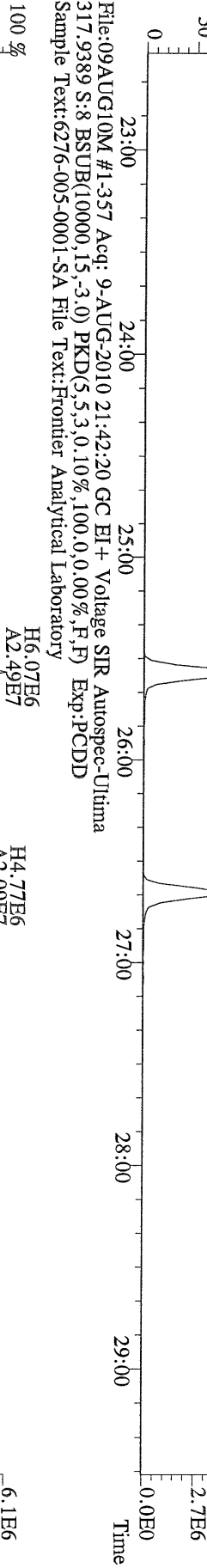
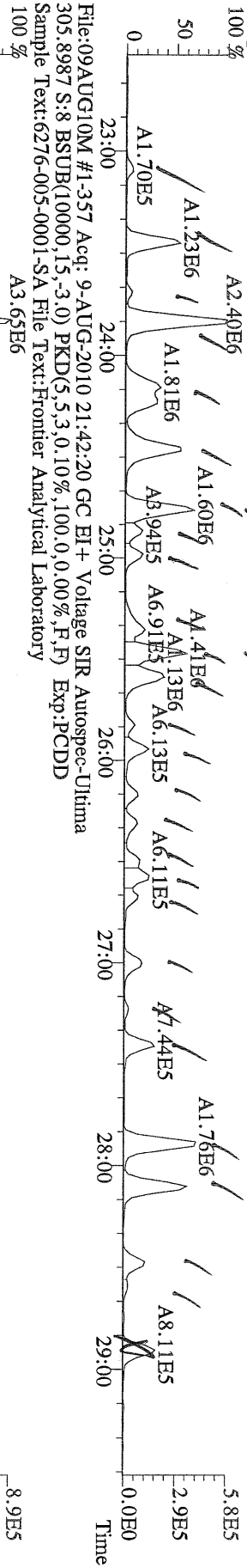
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471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:8 F:5 Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory

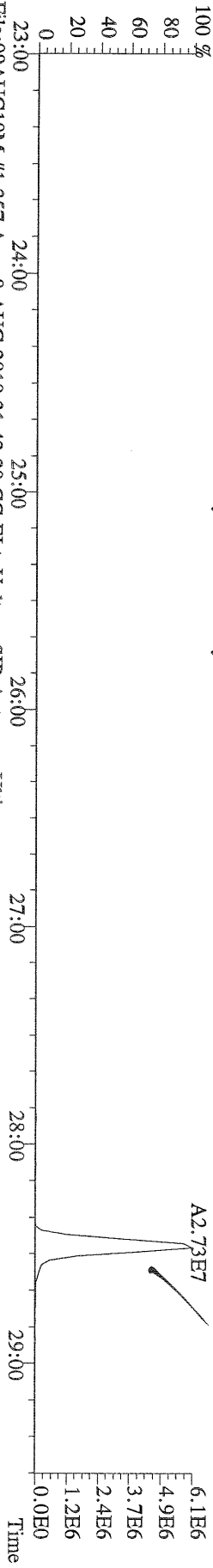


File:09AUG10M #1-357 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory

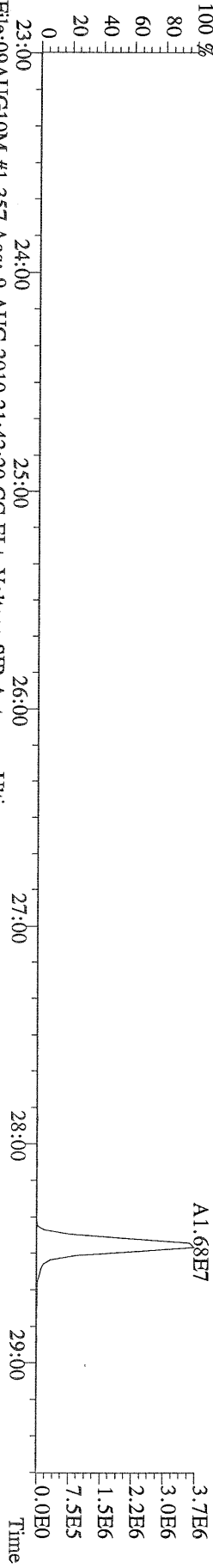




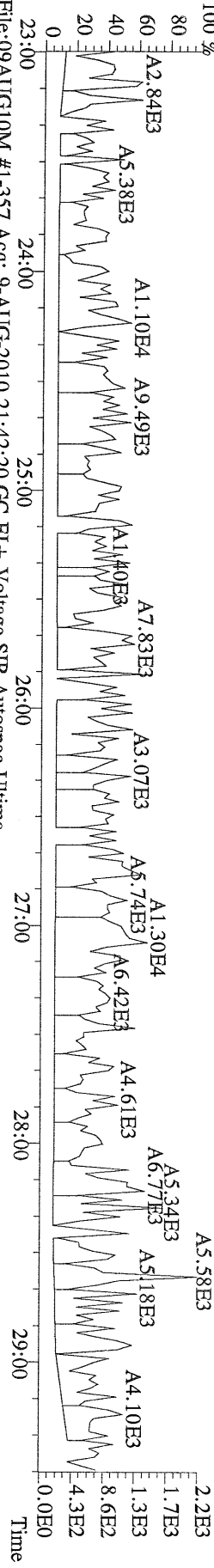
File:09AUG10M #1-357 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



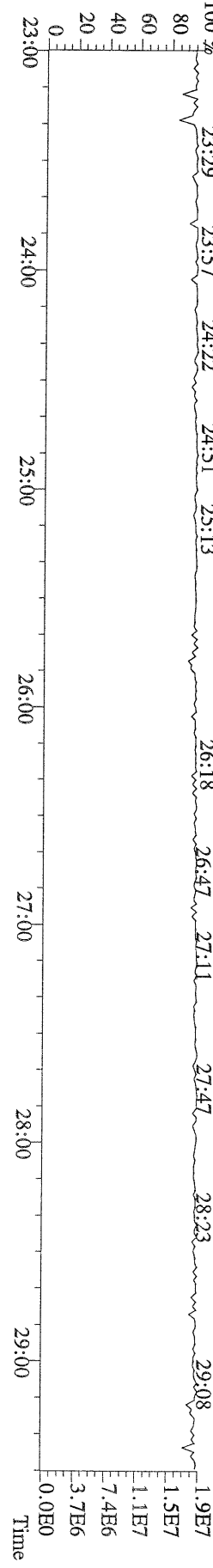
File:09AUG10M #1-357 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



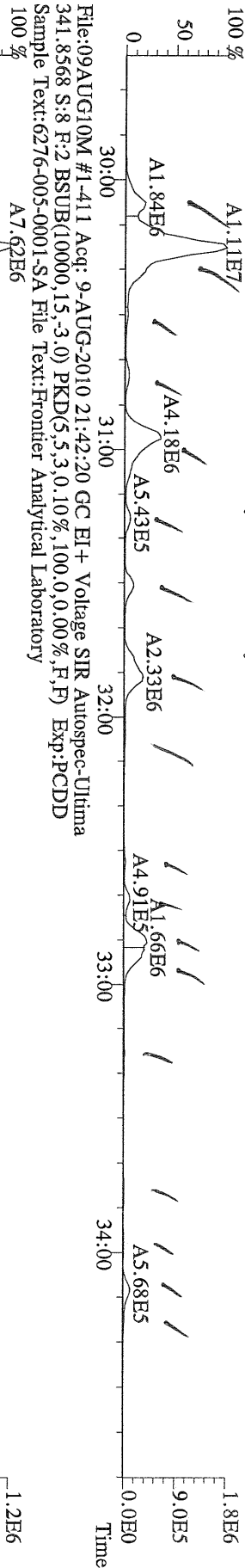
File:09AUG10M #1-357 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



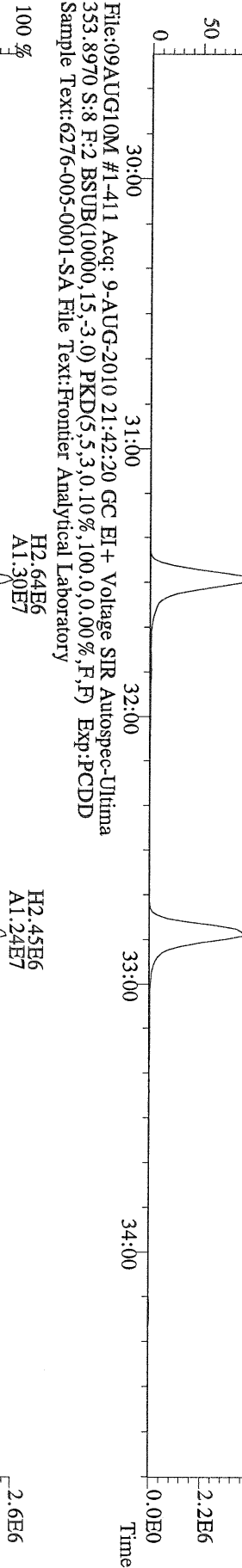
File:09AUG10M #1-357 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:8 Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



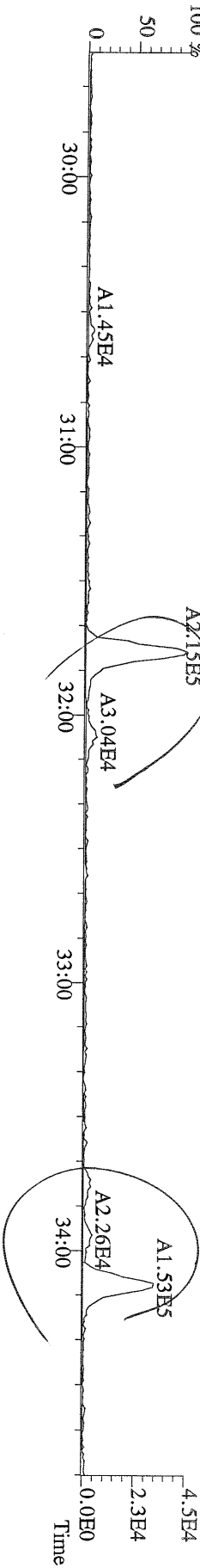
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 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



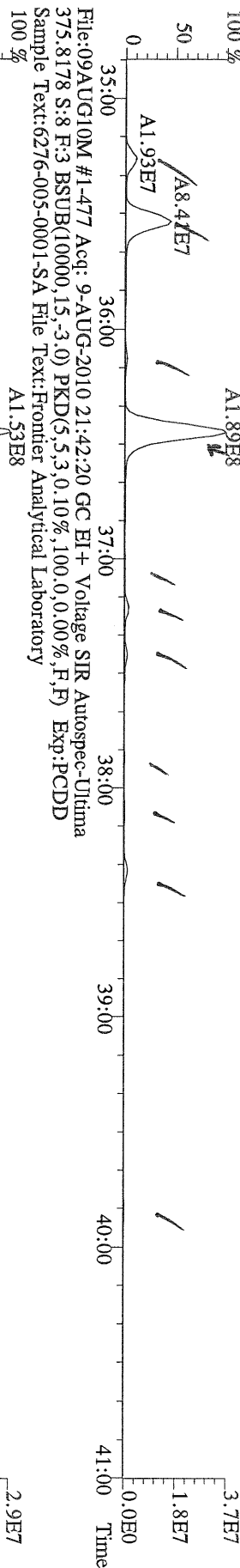
File:09AUG10M #1-411 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



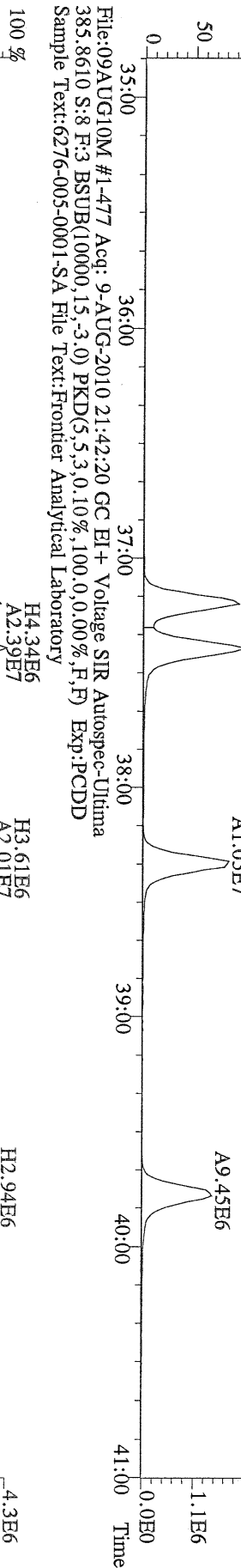
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 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



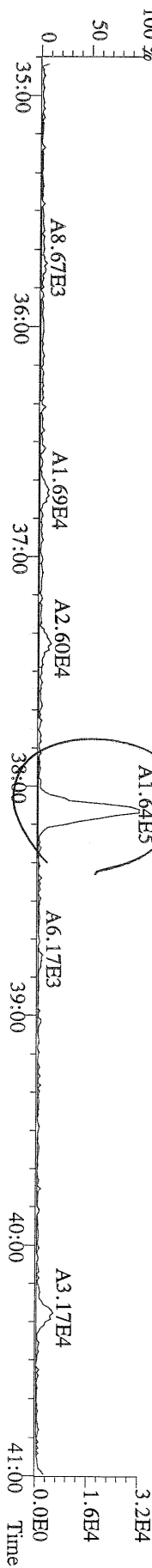
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 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



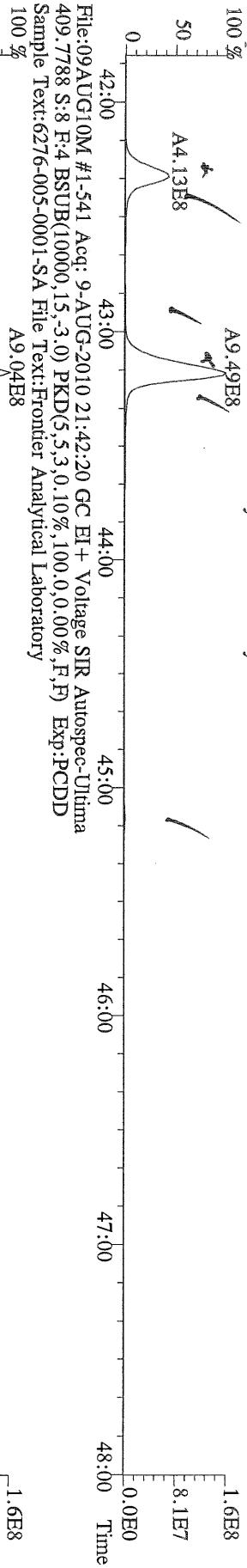
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 383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



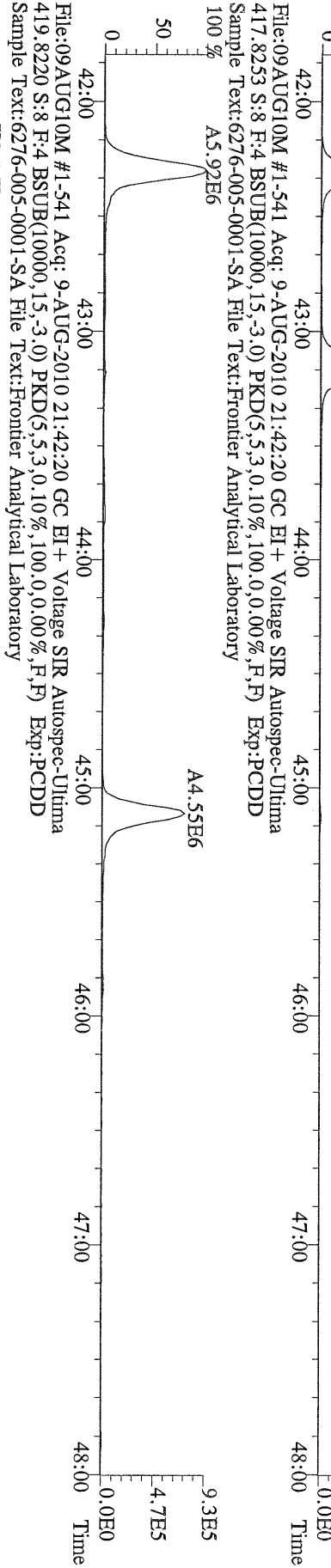
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 445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



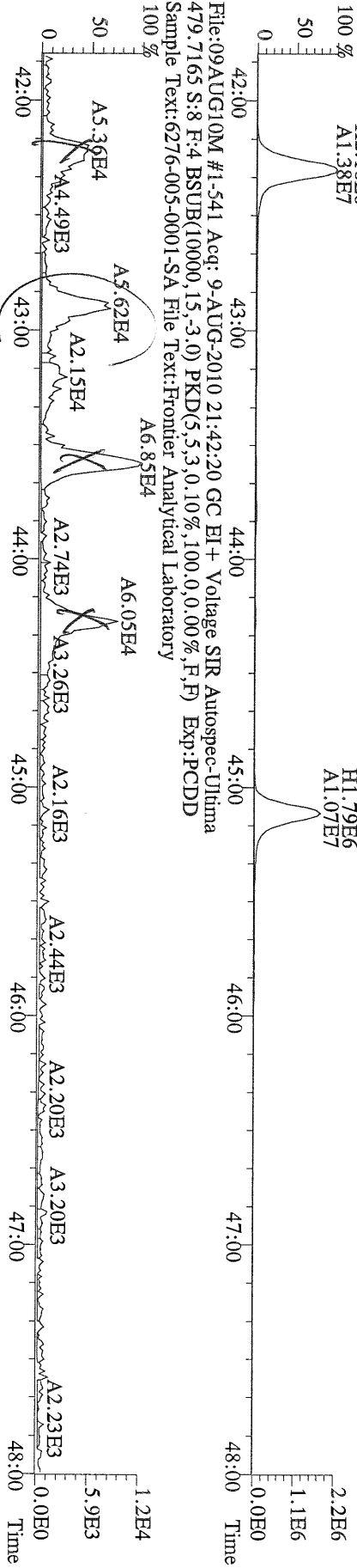
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 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



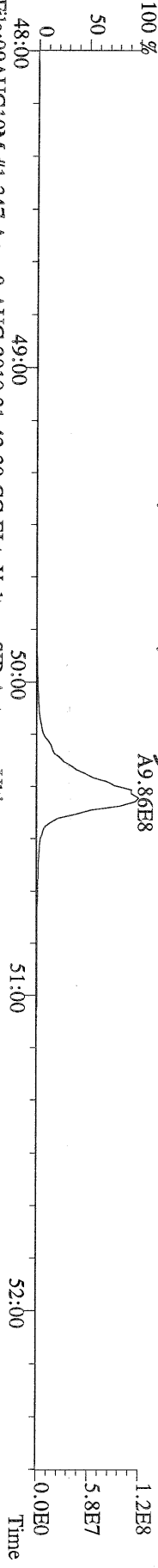
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 417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



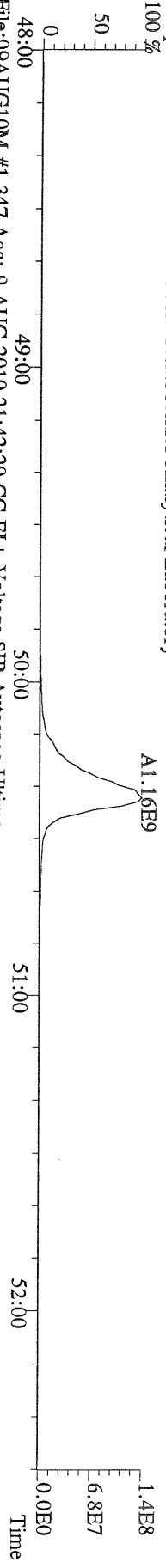
File:09AUG10M #1-541 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
 479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



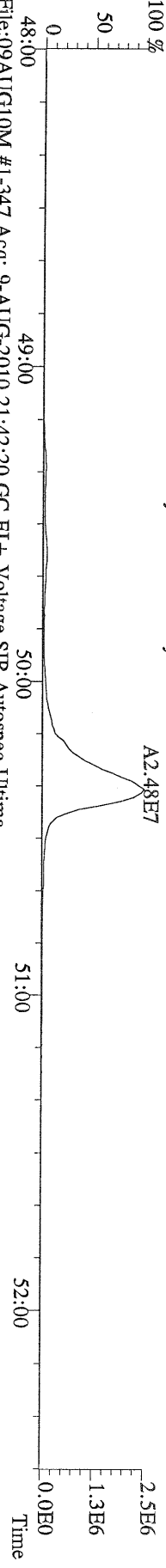
File:09AUG10M #1-347 Acq: 9-AUG-2010 21:42:20 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



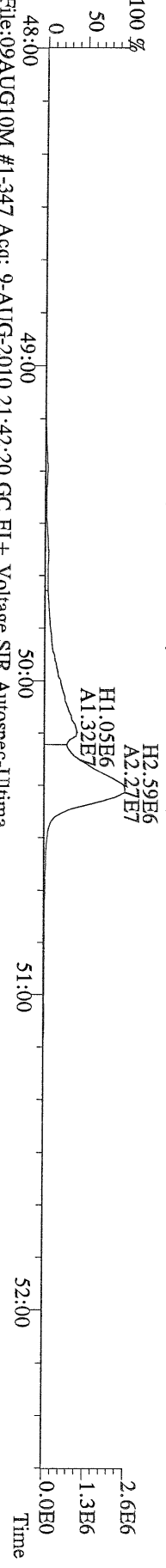
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443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



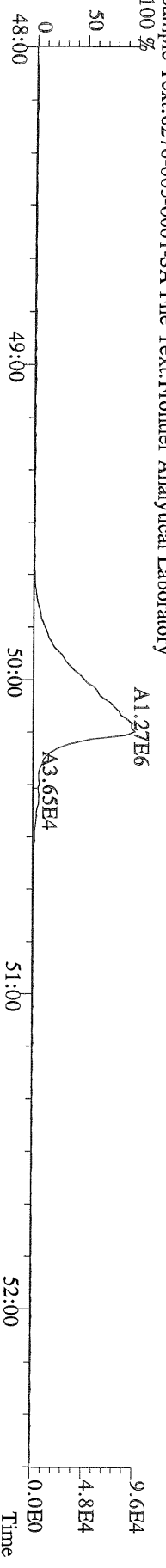
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453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:09AUG10M #1-347 Acq: 9-AUG-2010 21:42:20 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:6276-005-0001-SA File Text:Frontier Analytical Laboratory



File:09AUG10M #1-347 Acq: 9-AUG-2010 21:42:20 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:6276-005-0001-SA File Text:Frontier Analytical Laboratory  
100 %





Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 18

File: 17AUG10M

S: 11 I: 1 F: 3

Acquired: 17-AUG-10 17:08:27

Total Concentration: 8850

Unnamed Concentration: 8850.100

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
37:29	3.92e+06	2.83e+06	1.39 y	6.75e+06	8850	

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 18

File: 17AUG10M

S: 11 I: 1 F: 4

Acquired: 17-AUG-10 17:08:27

Total Concentration: 177000

Unnamed Concentration: 93375.383

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	3.71e+07	3.65e+07	1.02 y	7.36e+07	93400	
44:10	3.27e+07	3.28e+07	1.00 y	6.56e+07	83200	1,2,3,4,6,7,8-HpCDD



Totals class: Total Hexa-Furans

Entry #: 45

Run: 18

File: 17AUG10M

S: 11 I: 1 F: 3

Acquired: 17-AUG-10 17:08:27

Total Concentration: 7580

Unnamed Concentration: 7575.884

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:25	4.87e+06	3.90e+06	1.25 y	8.76e+06	7580	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 18

File: 17AUG10M

S: 11 I: 1 F: 4

Acquired: 17-AUG-10 17:08:27

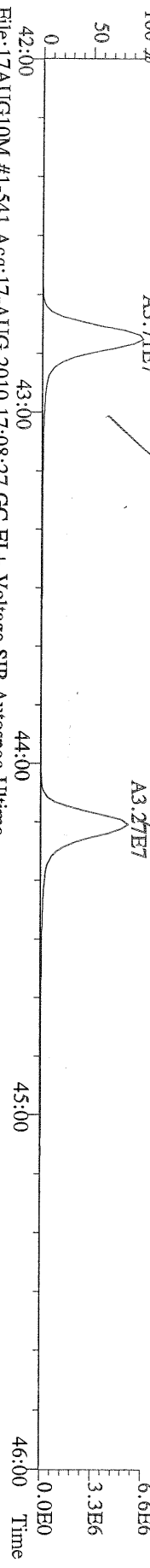
Total Concentration: 68300

Unnamed Concentration: 48504.068

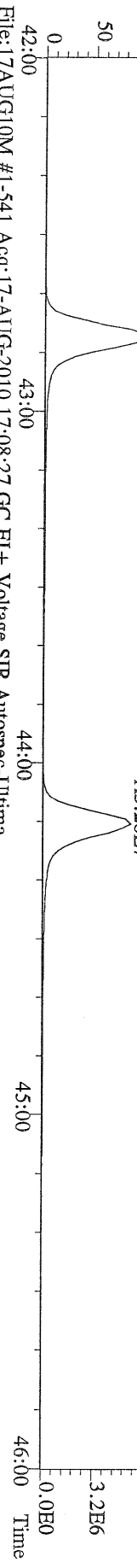
RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	8.64e+06	8.20e+06	1.05 y	1.68e+07	19800	1,2,3,4,6,7,8-HpCDF
43:05	2.05e+07	1.92e+07	1.07 y	3.96e+07	48500	



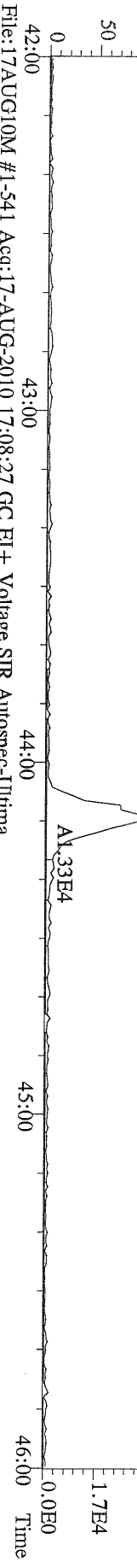
File:17AUG10M #1-541 Acq:17-AUG-2010 17:08:27 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



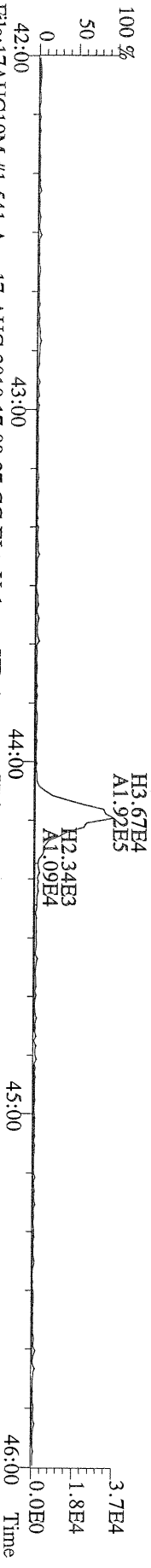
File:17AUG10M #1-541 Acq:17-AUG-2010 17:08:27 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



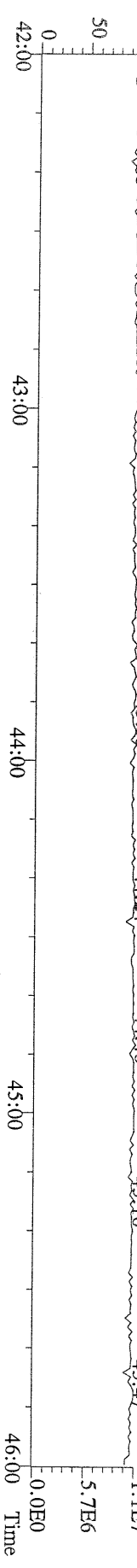
File:17AUG10M #1-541 Acq:17-AUG-2010 17:08:27 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



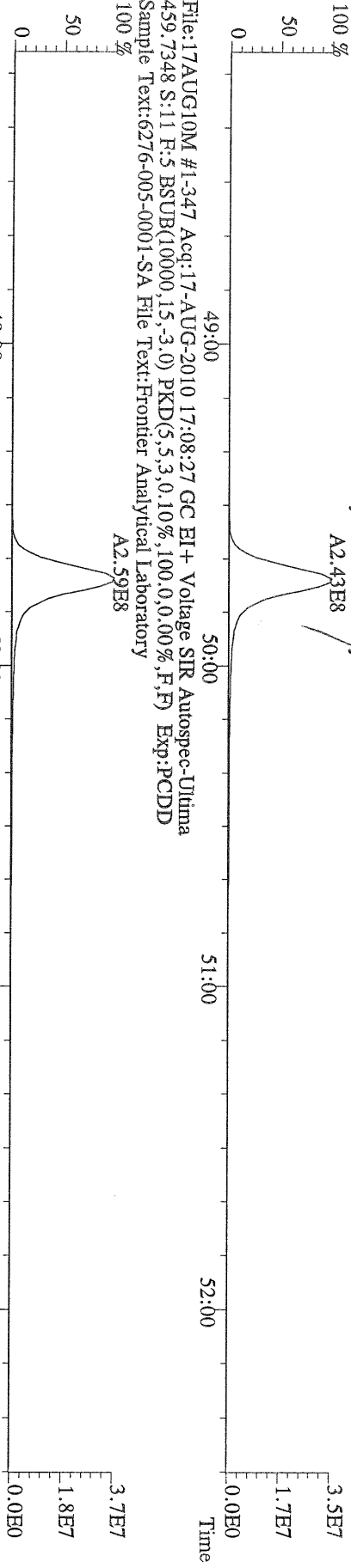
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437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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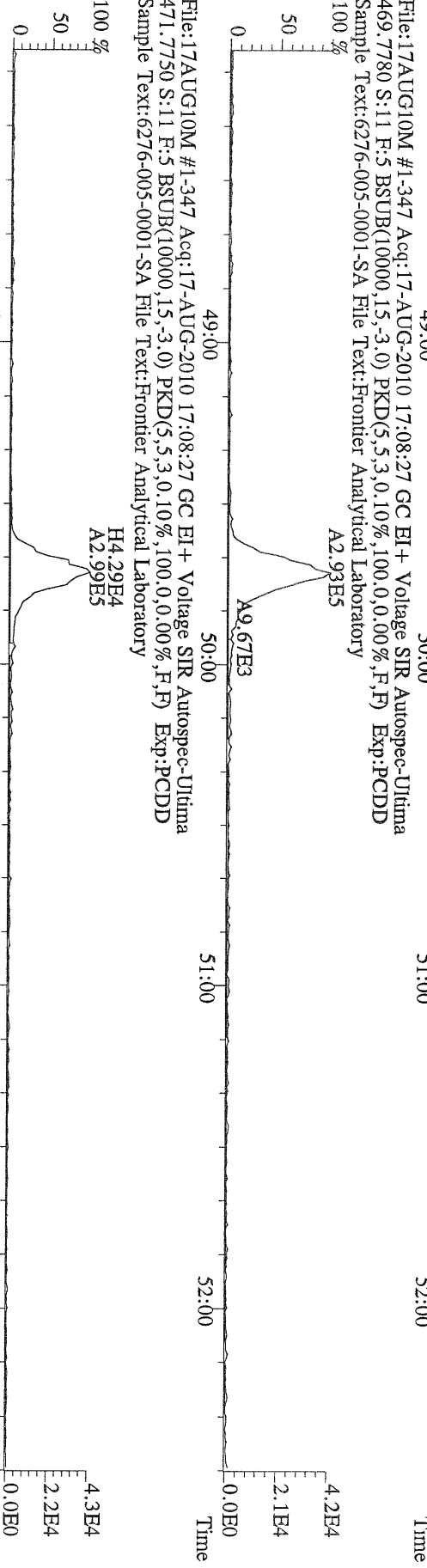
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430.9728 S:11 F:4 Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



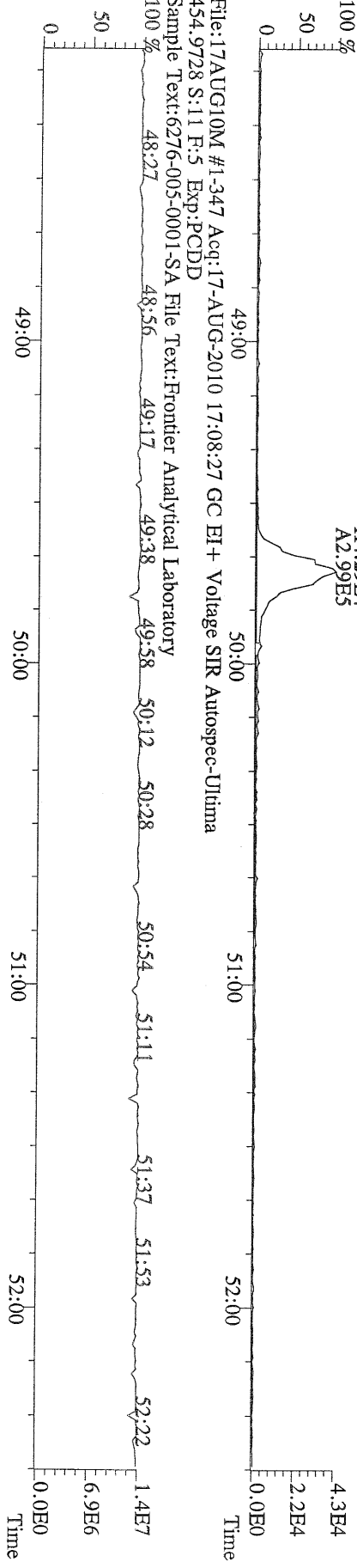
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457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 17:08:27 GC EI+ Voltage SIR Autospec-Ultima  
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  
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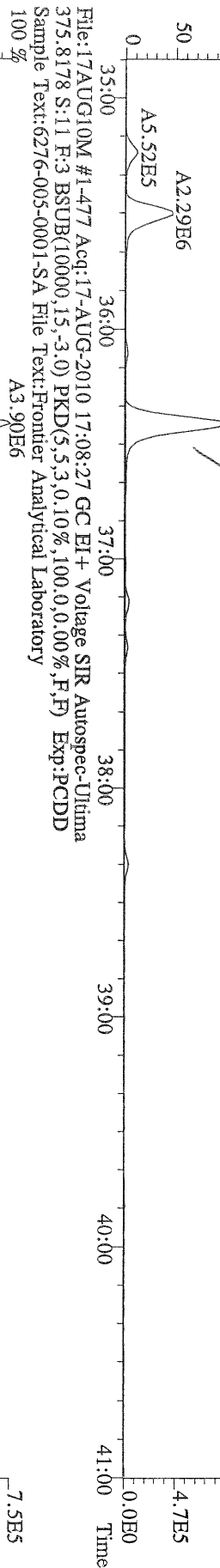
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471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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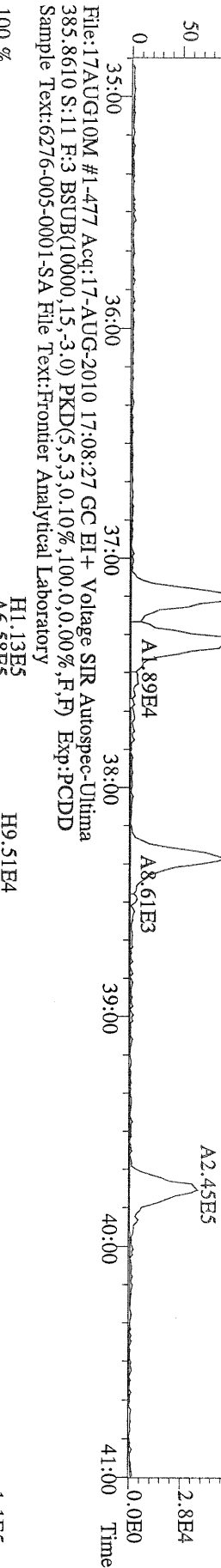
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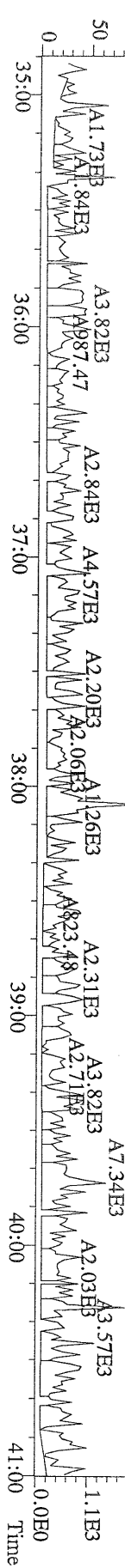
File:17AUG10M #1-477 Acq:17-AUG-2010 17:08:27 GC EI+ Voltage SIR Autospec-Utima  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



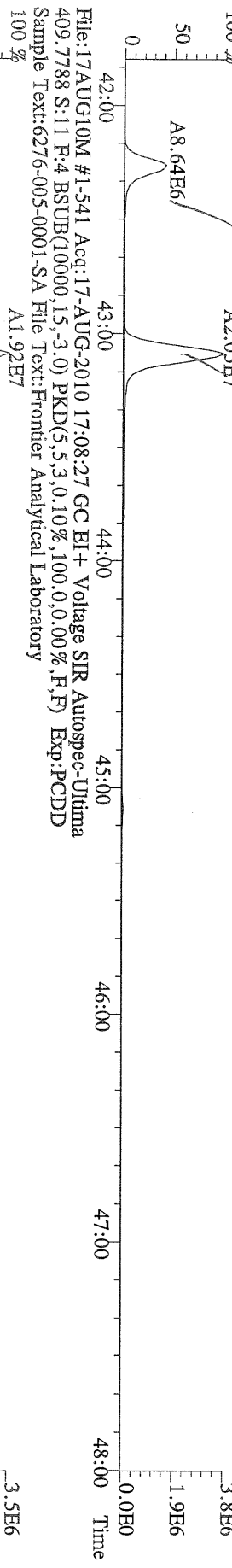
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383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



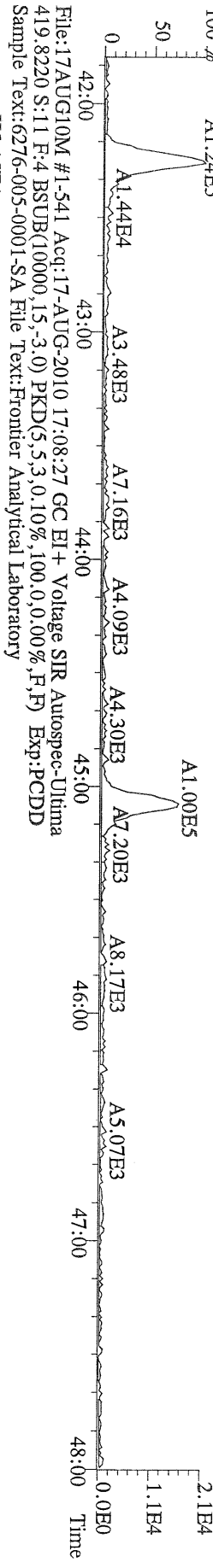
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445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



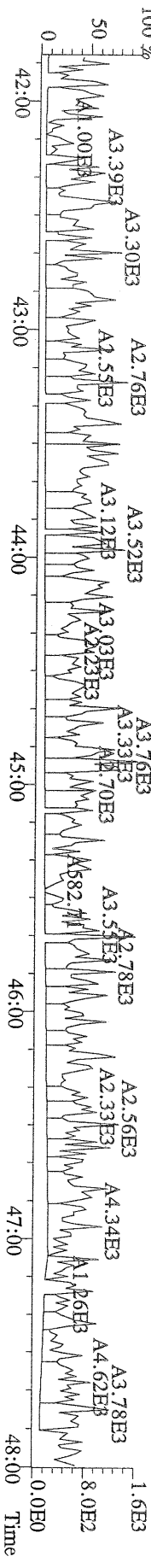
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407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



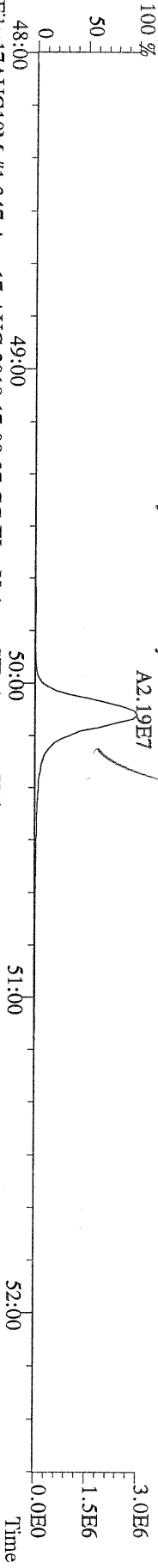
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417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



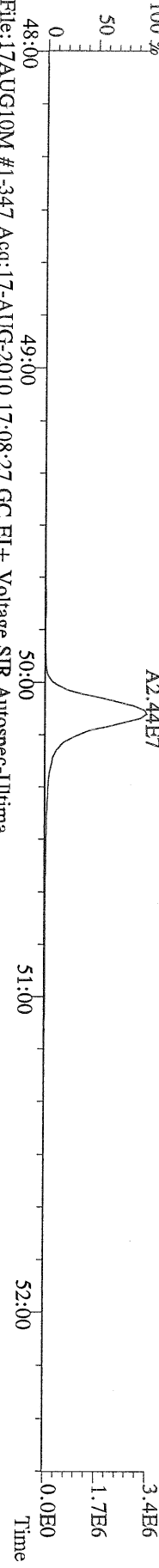
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419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



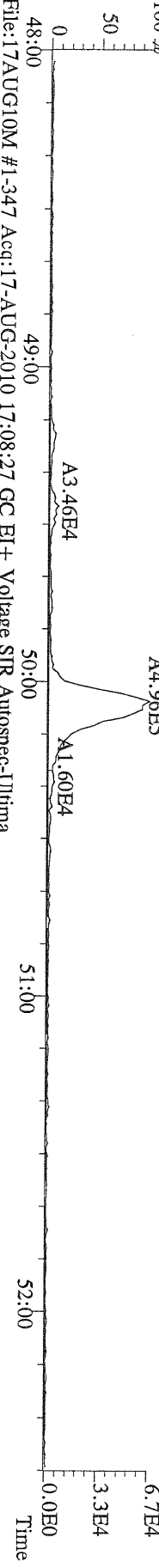
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441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



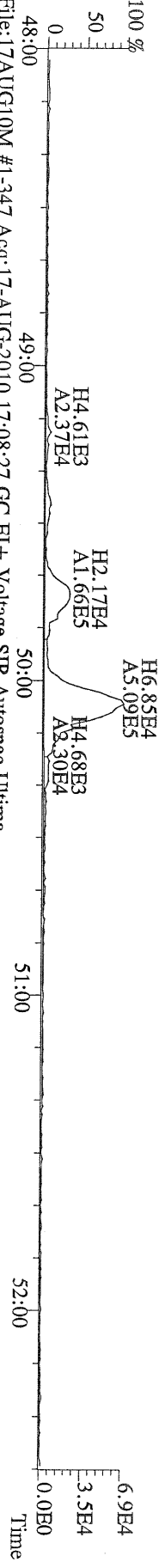
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443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



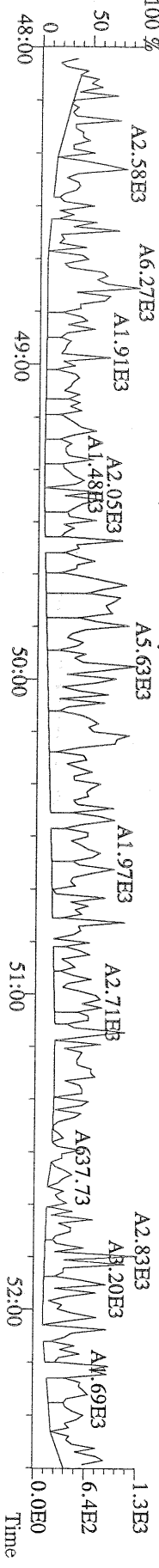
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453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-347 Acq:17-AUG-2010 17:08:27 GC EI+ Voltage SIR Autospec-Utima  
455.7801 S:11 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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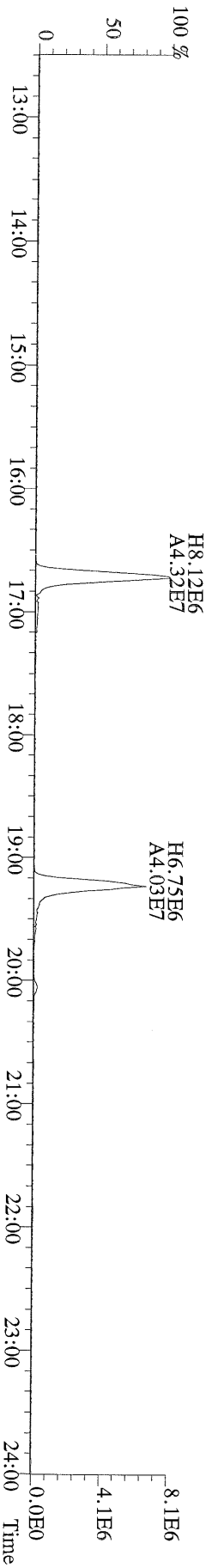
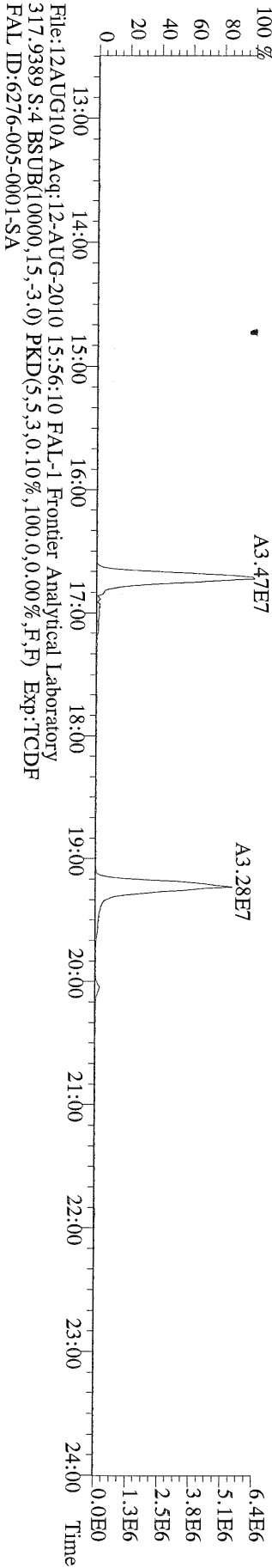
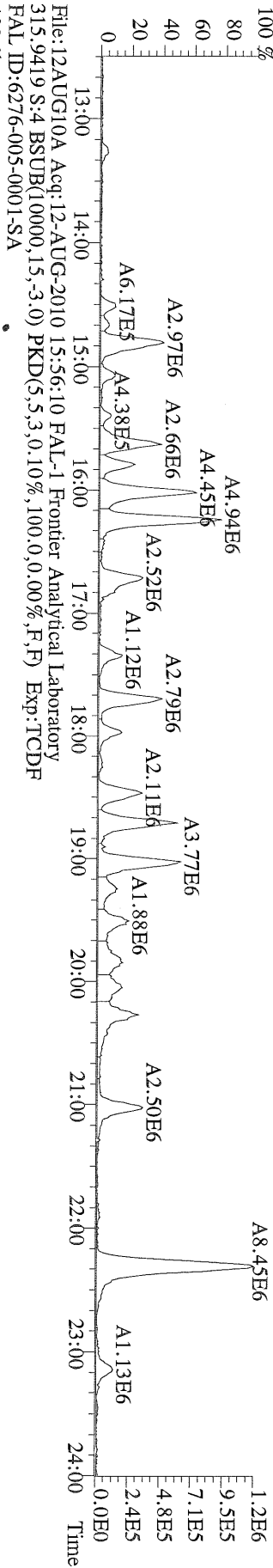
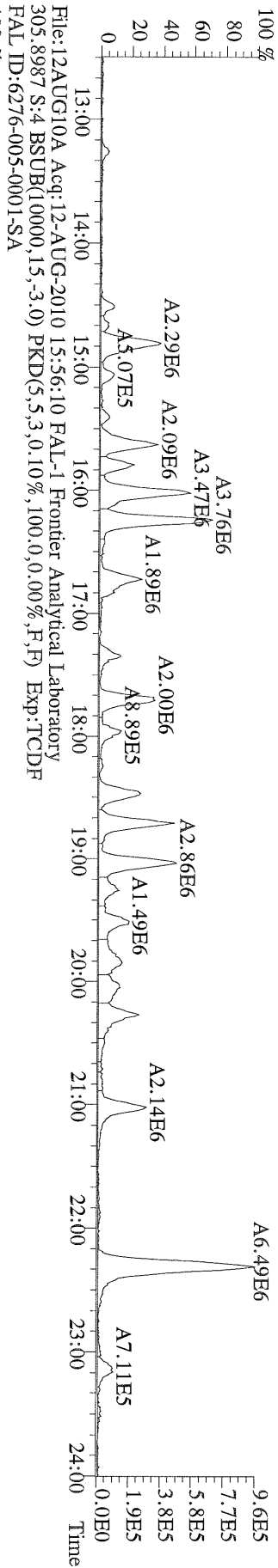
File:17AUG10M #1-347 Acq:17-AUG-2010 17:08:27 GC EI+ Voltage SIR Autospec-Utima  
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-005-0001-SA File Text:Frontier Analytical Laboratory







File:12AUG10A Acq:12-AUG-2010 15:56:10 FAL-1 Frontier Analytical Laboratory  
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF  
FAL ID:6276-005-0001-SA



Results:      GC Column: DB5      Amount: 3.050      NATO 1989 Tox: 14.8      WHO 1998 Tox: 11.2      WHO 2005 Tox: 11.9 ✓  
 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	1.04	*		2.50	678	984	0.373	
1,2,3,7,8-PeCDD	7.94e+04	1.56 y	33:14	1.05	1.74	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.06e+05	1.30 y	38:34	1.30	2.45	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	5.12e+05	1.38 y	38:44	1.28	12.5		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	2.60e+05	1.33 y	39:12	1.25	6.37	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.64e+07	1.02 y	44:10	1.35	408		2.50	-	-	*	
OCDD	8.45e+07	0.96 y	49:43	1.25	4360		2.50	-	-	*	
2,3,7,8-TCDF	6.24e+04	0.72 y	26:40	1.62	0.526	J	2.50	-	-	*	
1,2,3,7,8-PeCDF	3.58e+04	1.56 y	31:30	0.92	0.571	J	2.50	-	-	*	
2,3,4,7,8-PeCDF	8.59e+04	1.39 y	32:50	0.94	1.37	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.83e+05	1.23 y	37:12	0.93	3.10	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.14e+05	1.22 y	37:23	0.84	1.85	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.54e+05	1.14 y	38:20	0.90	2.75	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	3.98e+04	1.07 y	39:48	0.98	0.741	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	4.93e+06	1.09 y	42:16	1.38	108		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	1.85e+05	1.09 y	45:06	1.62	4.04	J	2.50	-	-	*	
OCDF	1.30e+07	0.85 y	50:06	0.74	579		2.50	-	-	*	
13C-2,3,7,8-TCDD	3.17e+07	0.82 y	27:23	0.93	678					103	
13C-1,2,3,7,8-PeCDD	2.86e+07	1.78 y	33:12	0.81	700					107	
13C-1,2,3,4,7,8-HxCDD	2.17e+07	1.20 y	38:34	0.95	660					101	
13C-1,2,3,6,7,8-HxCDD	2.11e+07	1.29 y	38:44	1.00	609					92.8	
13C-1,2,3,4,6,7,8-HpCDD	1.94e+07	1.03 y	44:09	0.92	607					92.5	
13C-OCDD	2.03e+07	0.94 y	49:42	0.63	923					70.4	
13C-2,3,7,8-TCDF	4.81e+07	0.88 y	26:37	0.87	677					103	
13C-1,2,3,7,8-PeCDF	4.49e+07	1.69 y	31:28	0.81	680					104	
13C-2,3,4,7,8-PeCDF	4.37e+07	1.71 y	32:47	0.75	710					108	
13C-1,2,3,4,7,8-HxCDF	4.17e+07	0.53 y	37:10	1.74	688					105	
13C-1,2,3,6,7,8-HxCDF	4.81e+07	0.53 y	37:22	2.17	637					97.1	
13C-2,3,4,6,7,8-HxCDF	4.11e+07	0.53 y	38:18	1.82	650					99.1	
13C-1,2,3,7,8,9-HxCDF	3.57e+07	0.53 y	39:45	1.49	691					105	
13C-1,2,3,4,6,7,8-HpCDF	2.16e+07	0.43 y	42:15	1.10	565					86.2	
13C-1,2,3,4,7,8,9-HpCDF	1.85e+07	0.44 y	45:05	0.81	652					99.4	
13C-OCDF	3.97e+07	0.93 y	50:05	1.19	962					73.3	
37Cl-2,3,7,8-TCDD	1.24e+07		27:24	0.93	264					101	
13C-1,2,3,4-TCDD	3.31e+07	0.83 y	26:48	-	32.0						
13C-1,2,3,4-TCDF	5.36e+07	0.87 y	25:33	-	33.0						
13C-1,2,3,7,8,9-HxCDD	2.28e+07	1.26 y	39:10	-	34.7						
Total Tetra-Dioxins	2.40e+05		24:24	1.04	4.79		2.50	-	-	*	5
Total Penta-Dioxins	6.93e+05		30:15	1.05	15.2		2.50	-	-	*	9
Total Hexa-Dioxins	3.77e+06		36:07	1.27	90.8		2.50	-	-	*	8
Total Hepta-Dioxins	3.33e+07		42:47	1.35	829		2.50	-	-	*	2
Total Tetra-Furans	1.57e+06		23:24	1.62	13.2		2.50	-	-	*	16
1st Fn. Tot Penta-Furans	5.85e+05		28:27	0.93	9.31		2.50	-	-	*	PeCDF 1
Total Penta-Furans	7.81e+05		30:05	0.93	12.4		2.50	-	-	*	21.8 8
Total Hexa-Furans	4.72e+06		35:15	0.90	82.1		2.50	-	-	*	21.7 9
Total Hepta-Furans	1.71e+07		42:16	1.48	377		2.50	-	-	*	8/17/10 4

Analyst: J

Date: 8/17/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 1

Acquired: 17-AUG-10 08:50:02

Total Concentration: 4.79

Unnamed Concentration: 4.793

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:24	2.67e+04	3.58e+04	0.75 y	6.26e+04	1.25	
24:40	2.15e+04	2.94e+04	0.73 y	5.09e+04	1.01	
25:00	1.59e+04	1.94e+04	0.82 y	3.53e+04	0.705	
25:36	2.27e+04	2.65e+04	0.86 y	4.92e+04	0.981	
25:57	1.78e+04	2.45e+04	0.73 y	4.24e+04	0.845	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 2

Acquired: 17-AUG-10 08:50:02

Total Concentration: 15.2

Unnamed Concentration: 13.463

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:15	9.95e+04	5.76e+04	1.73 y	1.57e+05	3.44	
30:52	4.72e+04	2.91e+04	1.63 y	7.63e+04	1.67	
31:29	4.33e+04	2.55e+04	1.70 y	6.88e+04	1.51	
31:41	5.72e+04	3.54e+04	1.62 y	9.26e+04	2.03	
31:50	3.58e+04	2.04e+04	1.76 y	5.62e+04	1.23	
32:08	6.47e+04	3.65e+04	1.77 y	1.01e+05	2.22	
32:36	1.64e+04	1.02e+04	1.60 y	2.66e+04	0.583	
33:14	4.84e+04	3.10e+04	1.56 y	7.94e+04	1.74	1,2,3,7,8-PeCDD
33:48	2.16e+04	1.38e+04	1.57 y	3.53e+04	0.775	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 3

Acquired: 17-AUG-10 08:50:02

Total Concentration: 90.8

Unnamed Concentration: 69.482

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:07	5.99e+05	4.29e+05	1.40 y	1.03e+06	24.7	
37:03	1.24e+05	9.07e+04	1.37 y	2.15e+05	5.16	
37:29	8.83e+05	6.26e+05	1.41 y	1.51e+06	36.2	
37:39	4.25e+04	3.39e+04	1.26 y	7.64e+04	1.83	
38:34	5.96e+04	4.60e+04	1.30 y	1.06e+05	2.45	1,2,3,4,7,8-HxCDD
38:44	2.97e+05	2.15e+05	1.38 y	5.12e+05	12.5	1,2,3,6,7,8-HxCDD
39:01	3.55e+04	2.81e+04	1.27 y	6.36e+04	1.53	
39:12	1.48e+05	1.11e+05	1.33 y	2.60e+05	6.37	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 4

Acquired: 17-AUG-10 08:50:02

Total Concentration: 829

Unnamed Concentration: 421.299

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	8.50e+06	8.42e+06	1.01 y	1.69e+07	421	
44:10	8.25e+06	8.13e+06	1.02 y	1.64e+07	408	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 1

Acquired: 17-AUG-10 08:50:02

Total Concentration: 13.2

Unnamed Concentration: 12.678

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:24	2.23e+04	2.88e+04	0.77 y	5.12e+04	0.432	
23:48	1.06e+05	1.52e+05	0.70 y	2.58e+05	2.18	
24:11	6.02e+04	8.38e+04	0.72 y	1.44e+05	1.21	
24:26	4.87e+04	7.03e+04	0.69 y	1.19e+05	1.00	
24:43	7.65e+04	9.18e+04	0.83 y	1.68e+05	1.42	
24:57	1.95e+04	2.89e+04	0.67 y	4.85e+04	0.409	
25:18	3.23e+04	4.83e+04	0.67 y	8.07e+04	0.680	
25:27	6.59e+04	9.48e+04	0.70 y	1.61e+05	1.36	
25:33	3.07e+04	4.11e+04	0.75 y	7.18e+04	0.606	
25:55	2.84e+04	4.32e+04	0.66 y	7.16e+04	0.604	
26:09	2.72e+04	3.41e+04	0.80 y	6.13e+04	0.517	
26:16	1.88e+04	2.37e+04	0.79 y	4.25e+04	0.358	
26:33	2.43e+04	3.68e+04	0.66 y	6.11e+04	0.515	
26:40	2.62e+04	3.62e+04	0.72 y	6.24e+04	0.526	2,3,7,8-TCDF
26:59	4.03e+04	6.09e+04	0.66 y	1.01e+05	0.854	
28:27	2.91e+04	3.44e+04	0.85 y	6.35e+04	0.536	



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

Run: 8                      File: 17AUG10M                      S: 2 I: 1 F: 1  
Acquired: 17-AUG-10 08:50:02

Total Concentration: 9.31                      Unnamed Concentration: 9.314

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:27	3.60e+05	2.25e+05	1.60 y	5.85e+05	9.31	

Totals class: Total Penta-Furans

Entry #: 44

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 2

Acquired: 17-AUG-10 08:50:02

Total Concentration: 12.4

Unnamed Concentration: 10.505

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:05	3.73e+04	2.74e+04	1.36 y	6.47e+04	1.03	
30:14	1.93e+05	1.42e+05	1.35 y	3.35e+05	5.34	
30:57	8.29e+04	4.83e+04	1.72 y	1.31e+05	2.09	
31:30	2.18e+04	1.40e+04	1.56 y	3.58e+04	0.571	1,2,3,7,8-PeCDF
31:50	3.54e+04	2.48e+04	1.43 y	6.02e+04	0.959	
32:39	1.53e+04	1.09e+04	1.40 y	2.62e+04	0.417	
32:50	5.00e+04	3.59e+04	1.39 y	8.59e+04	1.37	2,3,4,7,8-PeCDF
32:53	2.51e+04	1.71e+04	1.47 y	4.22e+04	0.672	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 3

Acquired: 17-AUG-10 08:50:02

Total Concentration: 82.1

Unnamed Concentration: 73.630

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:15	1.92e+05	1.61e+05	1.19 y	3.52e+05	6.13	
35:31	7.70e+05	6.28e+05	1.23 y	1.40e+06	24.3	
36:06	2.42e+04	2.21e+04	1.10 y	4.63e+04	0.805	
36:25	1.33e+06	1.07e+06	1.25 y	2.40e+06	41.7	
37:01	2.14e+04	1.58e+04	1.35 y	3.72e+04	0.647	
37:12	1.01e+05	8.20e+04	1.23 y	1.83e+05	3.10	1,2,3,4,7,8-HxCDF
37:23	6.27e+04	5.12e+04	1.22 y	1.14e+05	1.85	1,2,3,6,7,8-HxCDF
38:20	8.24e+04	7.20e+04	1.14 y	1.54e+05	2.75	2,3,4,6,7,8-HxCDF
39:48	2.05e+04	1.92e+04	1.07 y	3.98e+04	0.741	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 8

File: 17AUG10M

S: 2 I: 1 F: 4

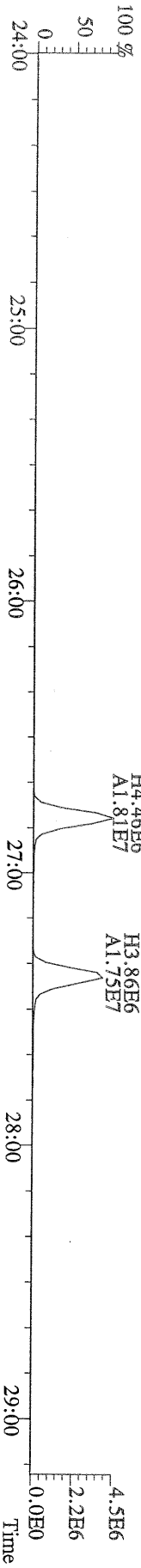
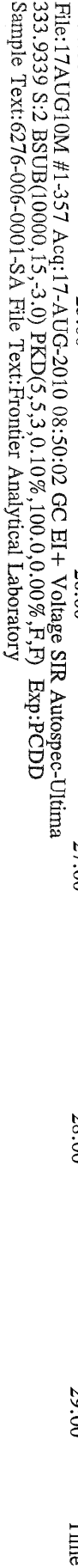
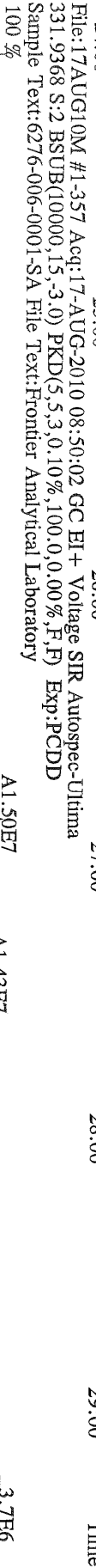
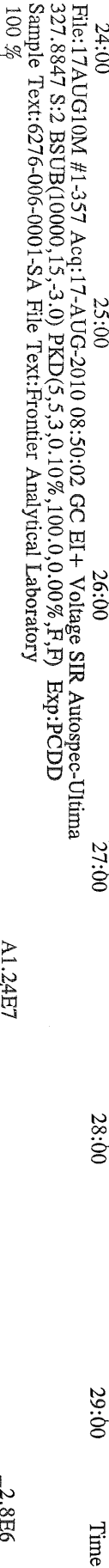
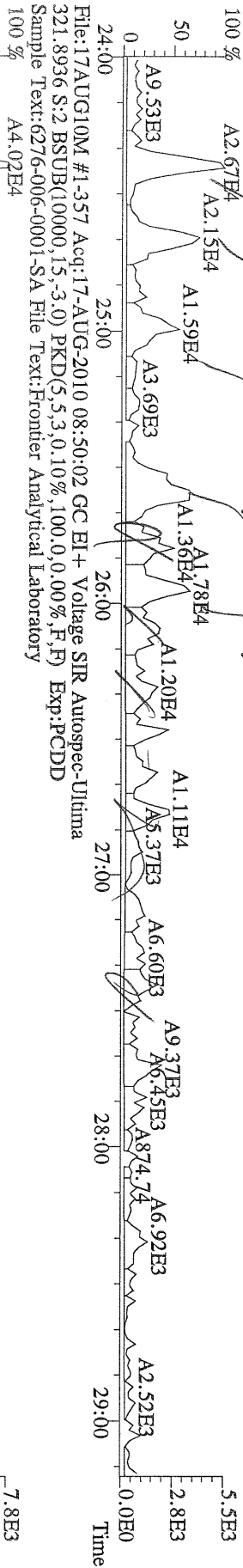
Acquired: 17-AUG-10 08:50:02

Total Concentration: 377

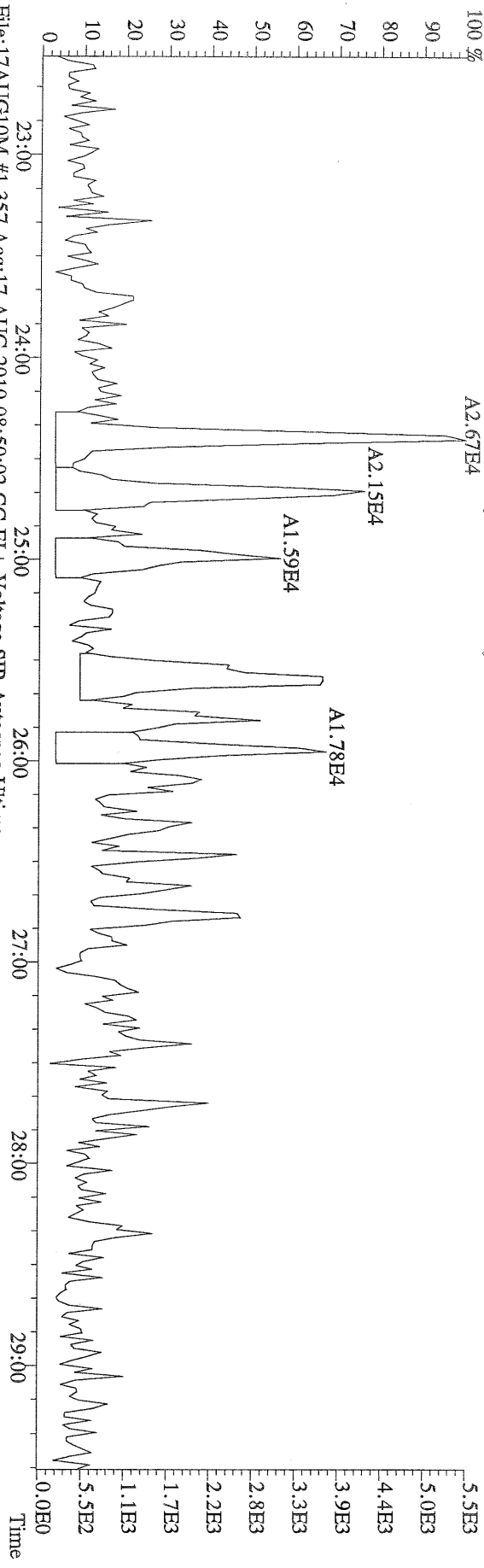
Unnamed Concentration: 264.328

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	2.57e+06	2.36e+06	1.09 y	4.93e+06	108	1,2,3,4,6,7,8-HpCDF
42:49	6.73e+04	5.70e+04	1.18 y	1.24e+05	2.74	
43:05	6.18e+06	5.70e+06	1.09 y	1.19e+07	262	
45:06	9.66e+04	8.85e+04	1.09 y	1.85e+05	4.04	1,2,3,4,7,8,9-HpCDF

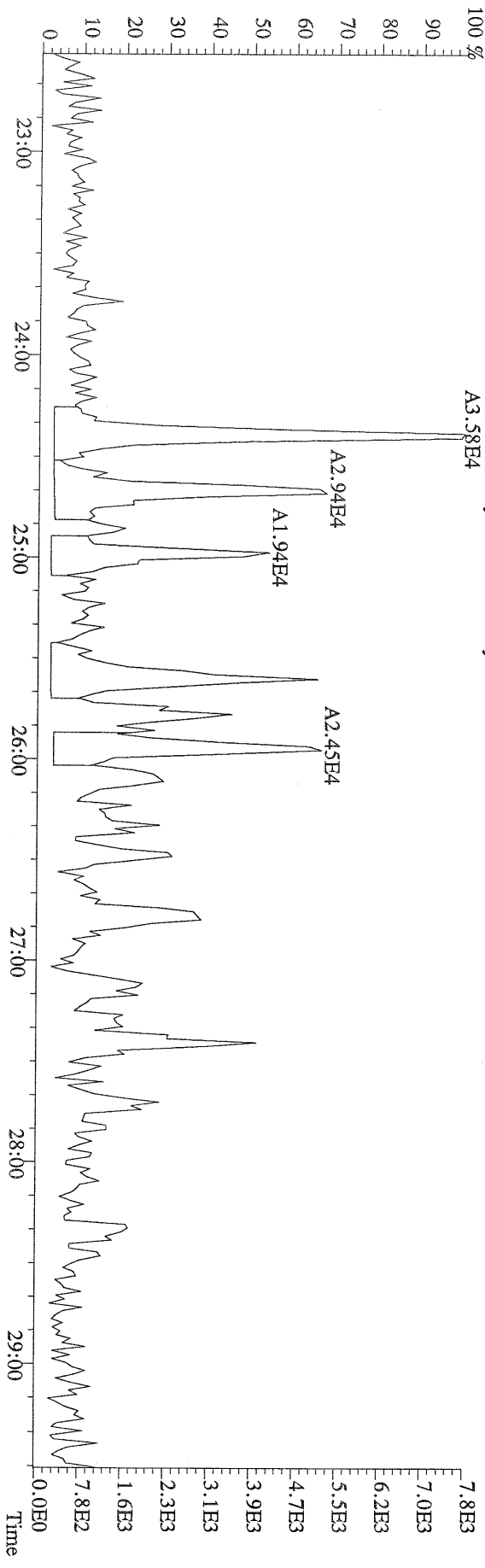
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Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



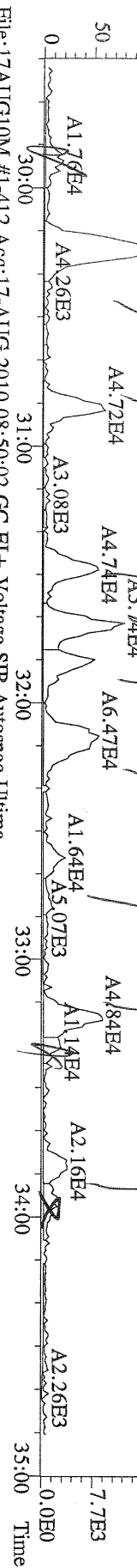
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 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



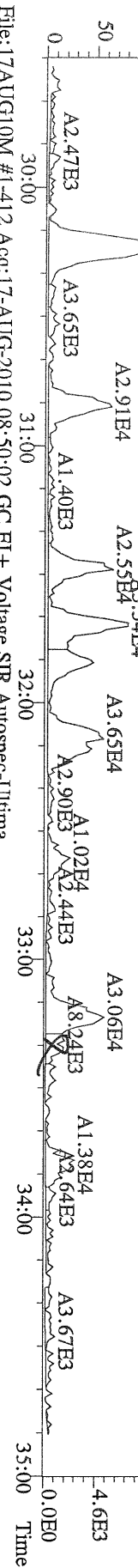
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



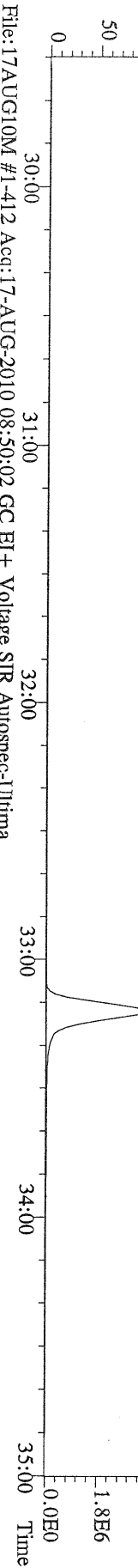
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 355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



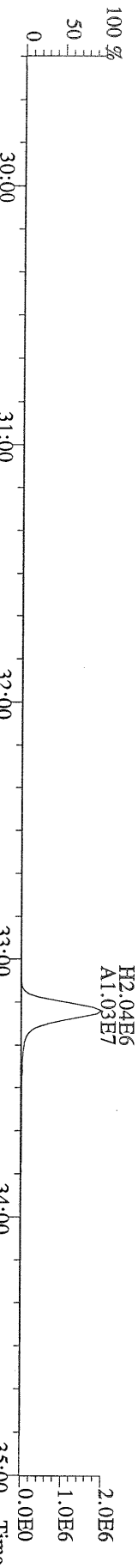
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 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



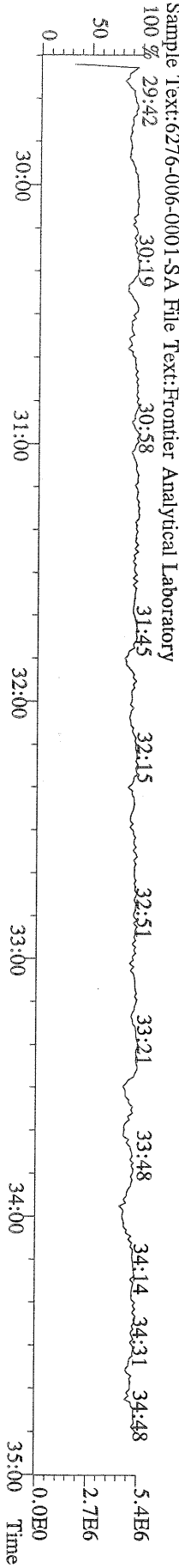
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 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



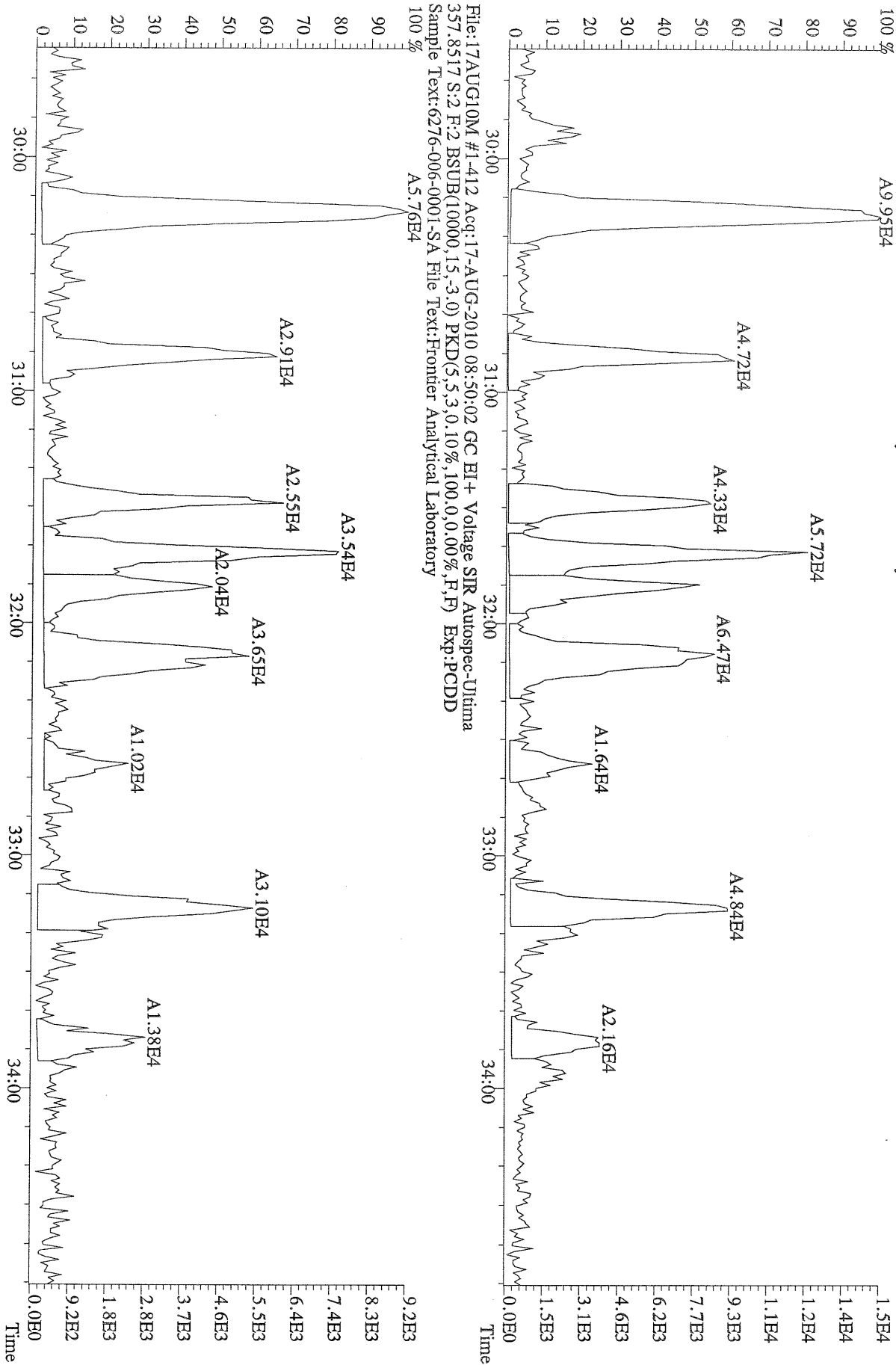
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 369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-412 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:2 F:2 Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory

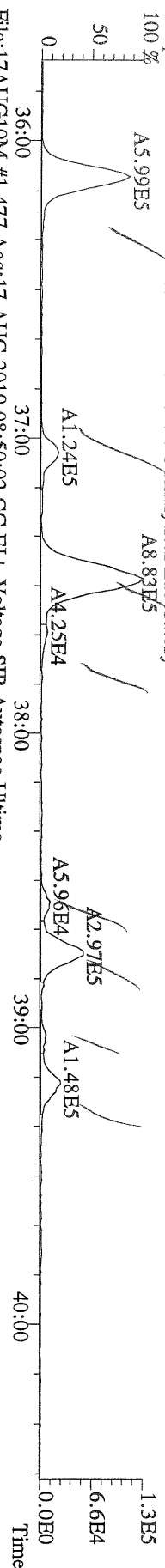


File:17AUG10M #1-412 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory

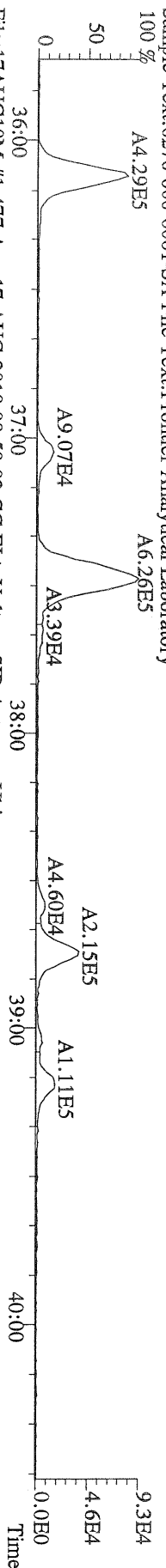




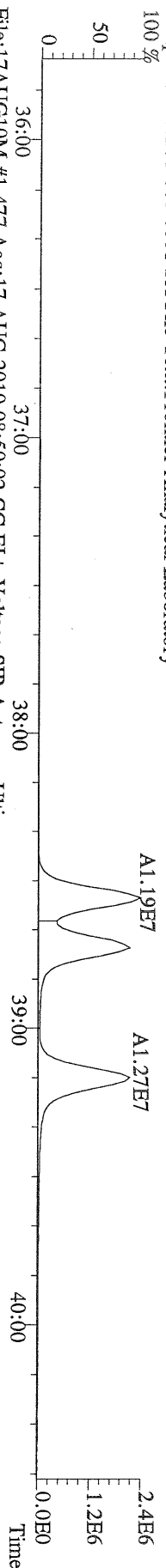
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



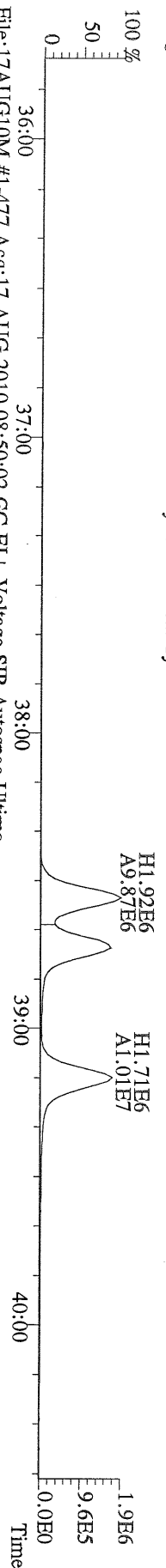
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



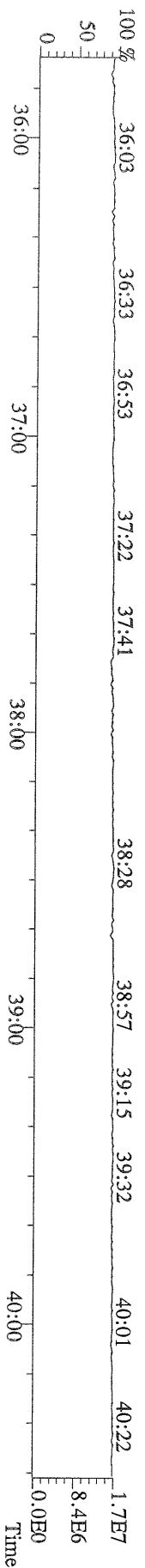
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



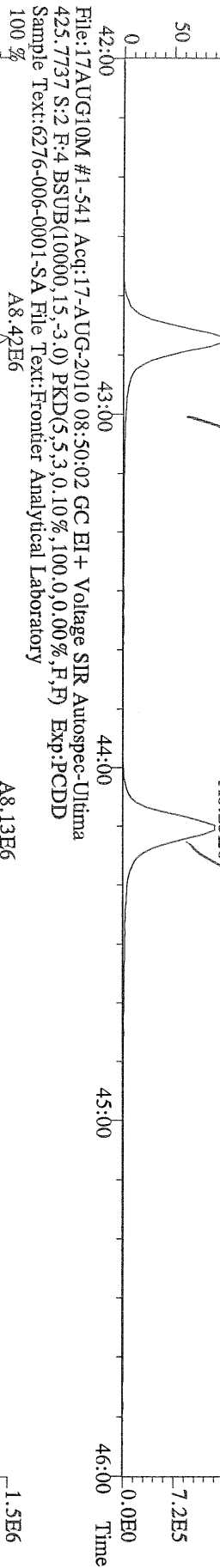
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



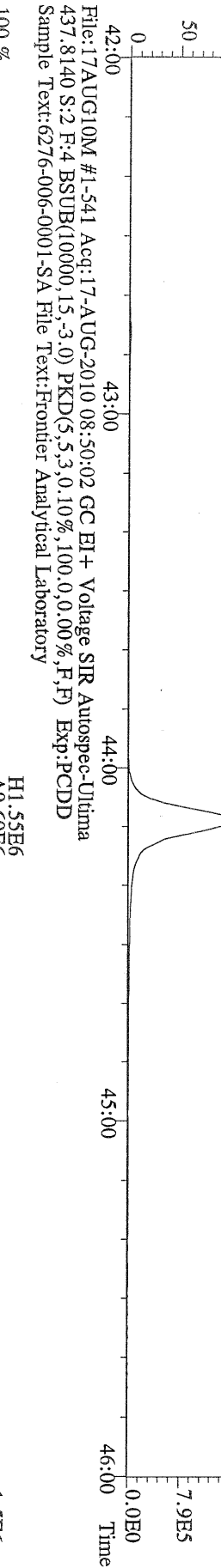
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:2 F:3 Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



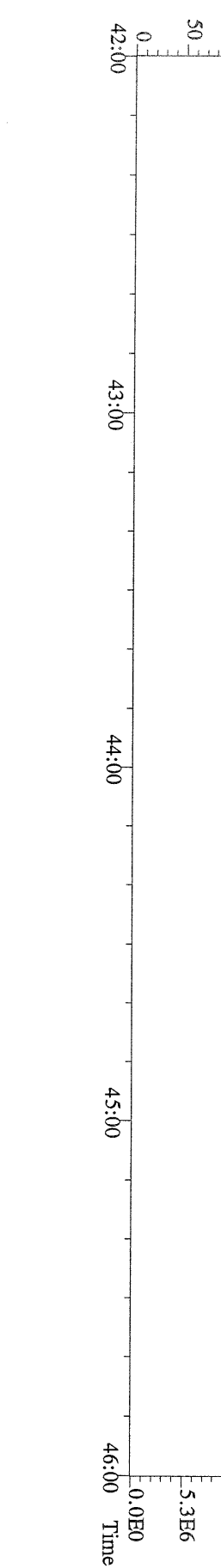
File:17AUG10M #1-541 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



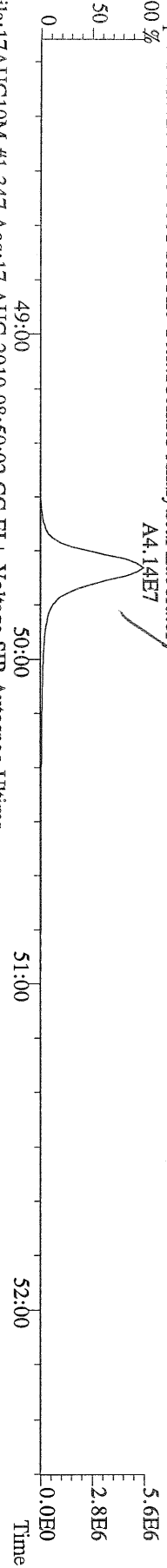
File:17AUG10M #1-541 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



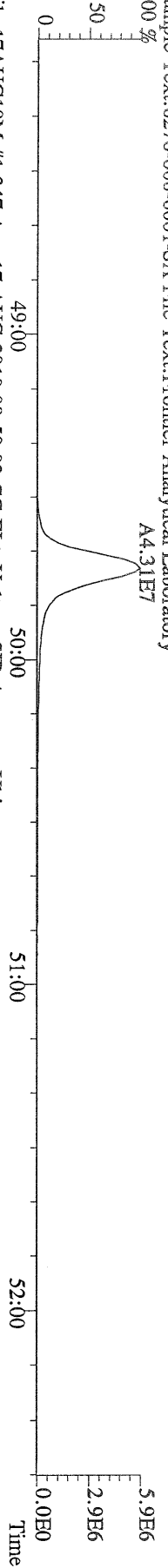
File:17AUG10M #1-541 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



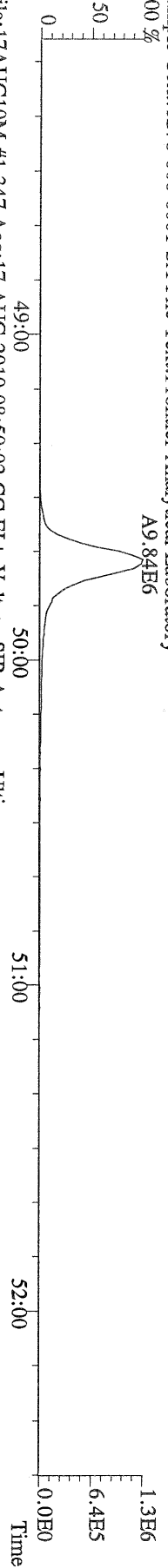
File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



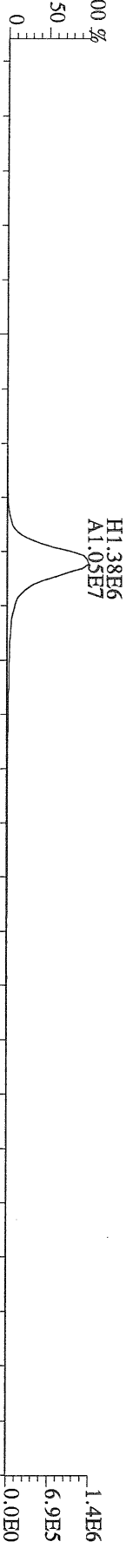
File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



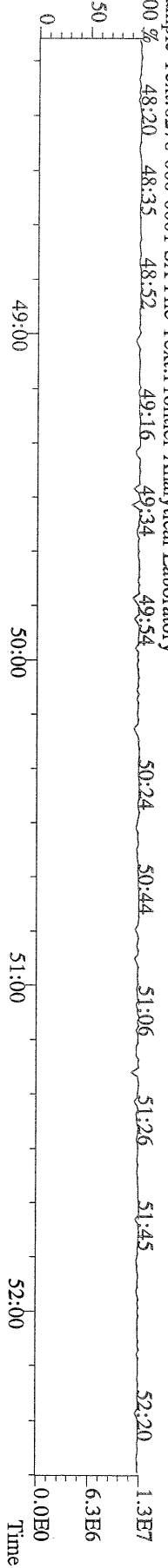
File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



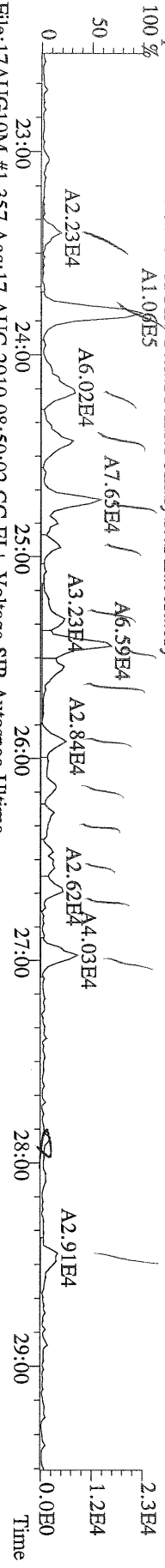
File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



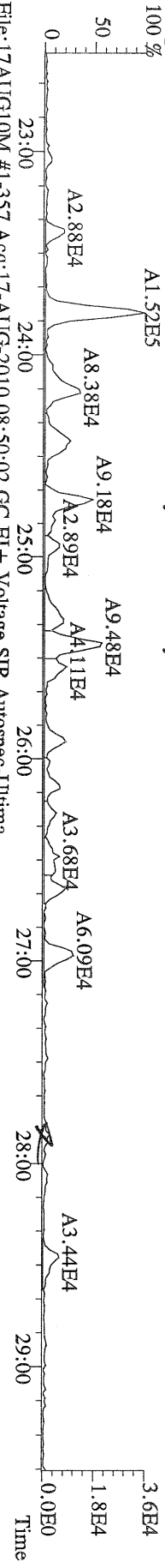
File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 454.9728 S:2 F:5 Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



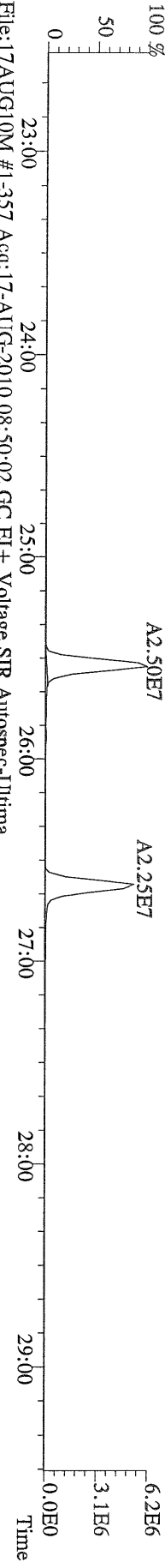
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



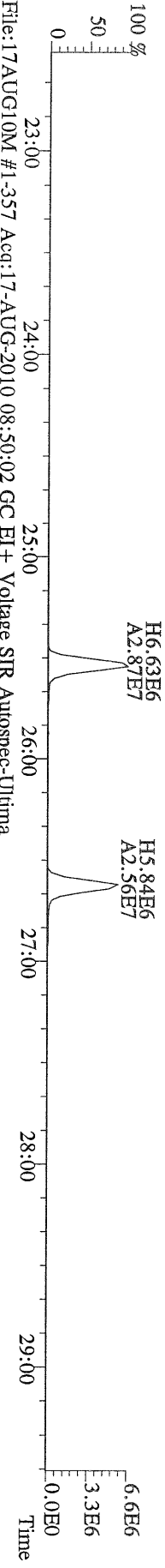
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



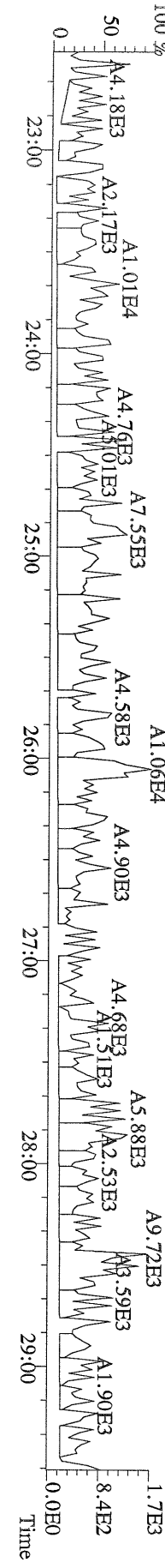
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



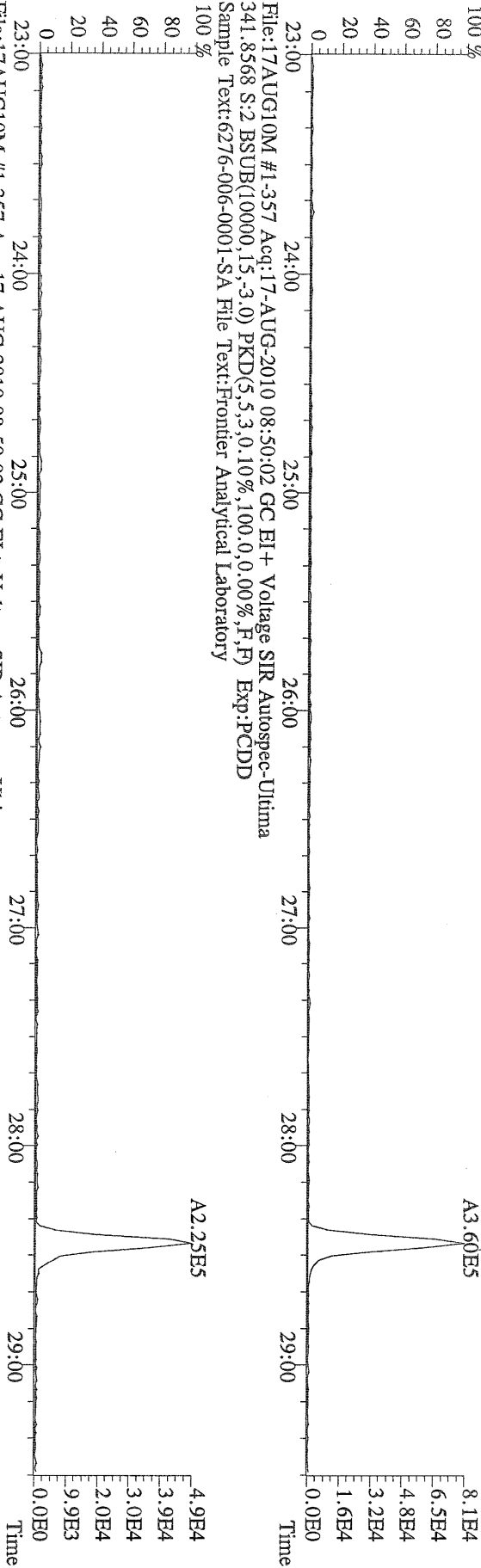
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



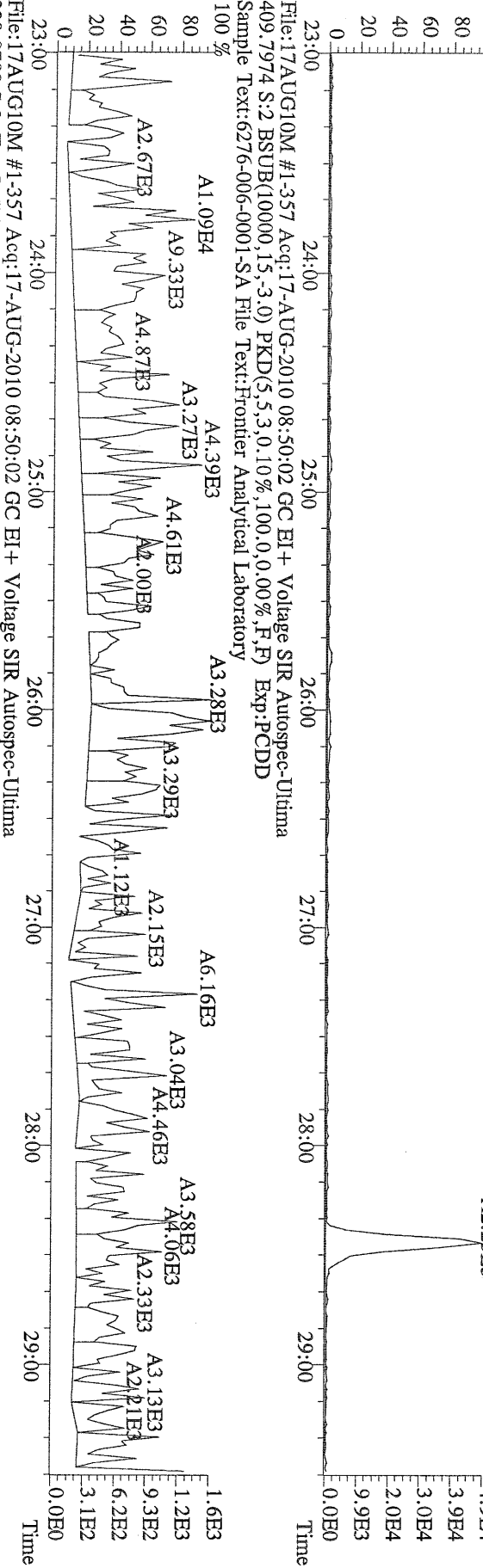
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



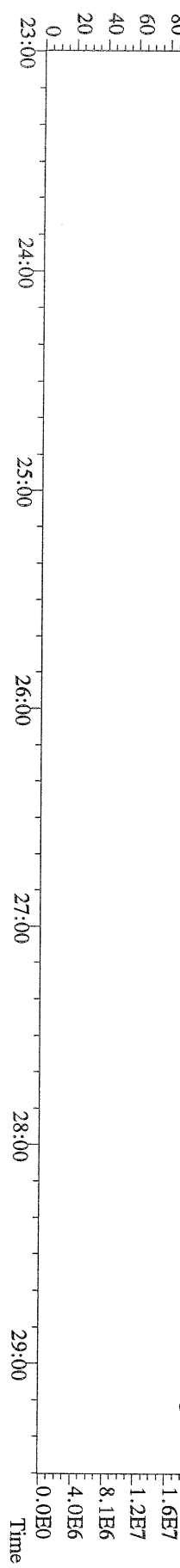
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



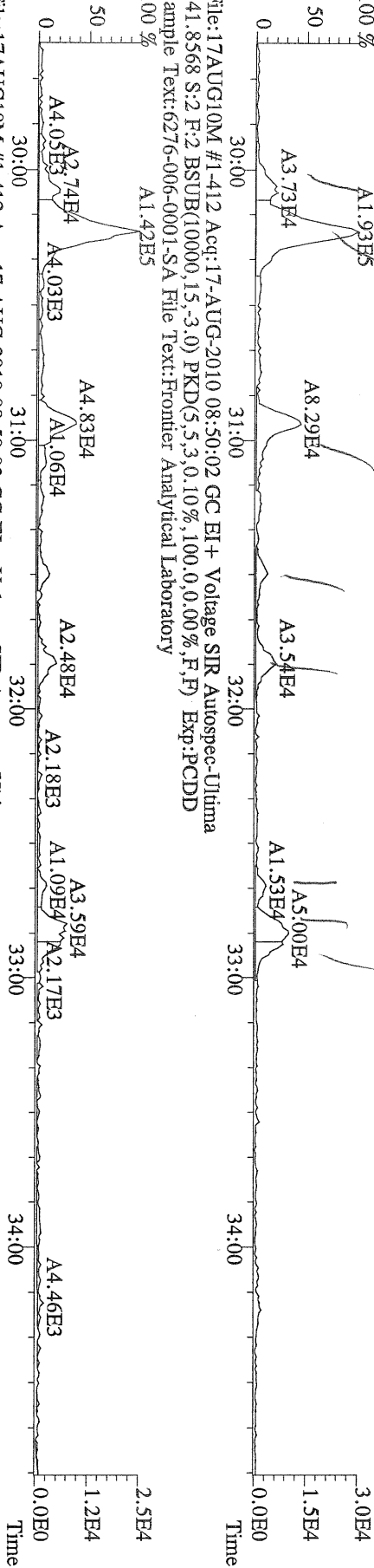
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



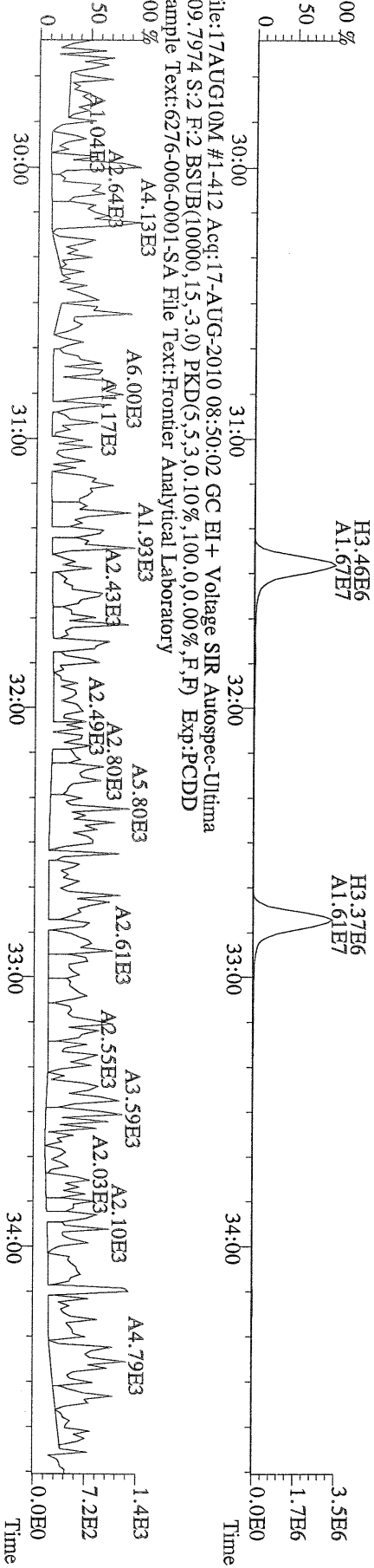
File:17AUG10M #1-357 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:2 Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



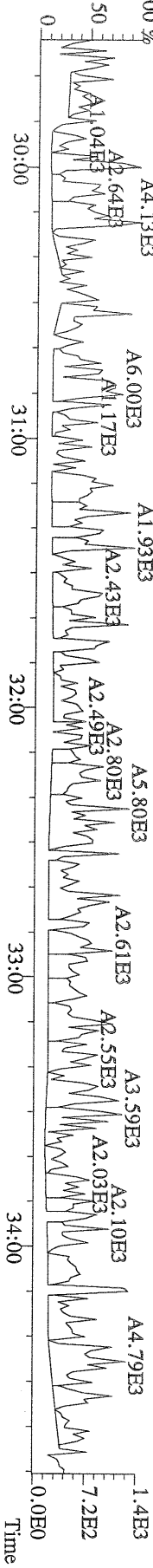
File:17AUG10M #1-412 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



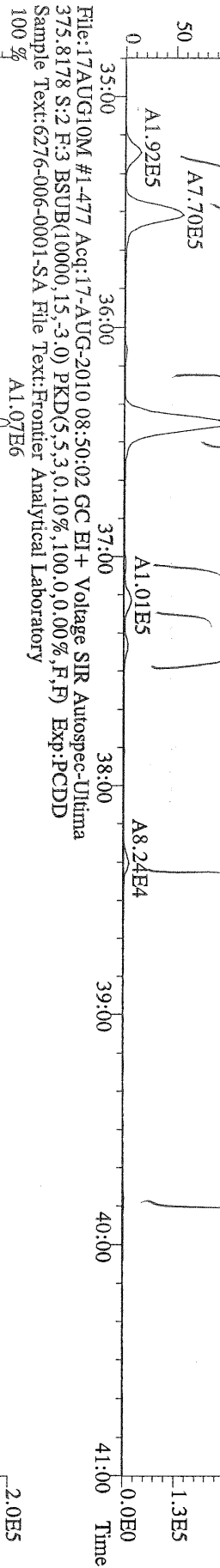
File:17AUG10M #1-412 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



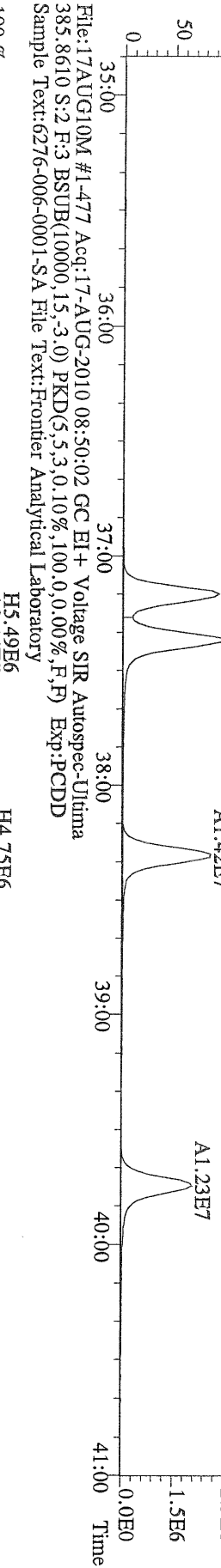
File:17AUG10M #1-412 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



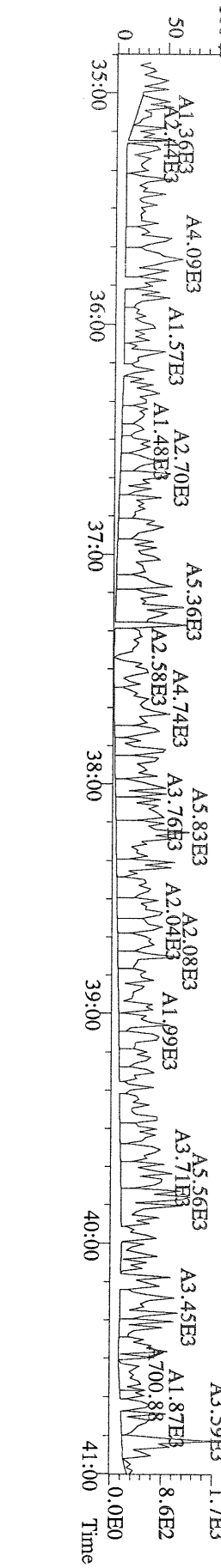
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



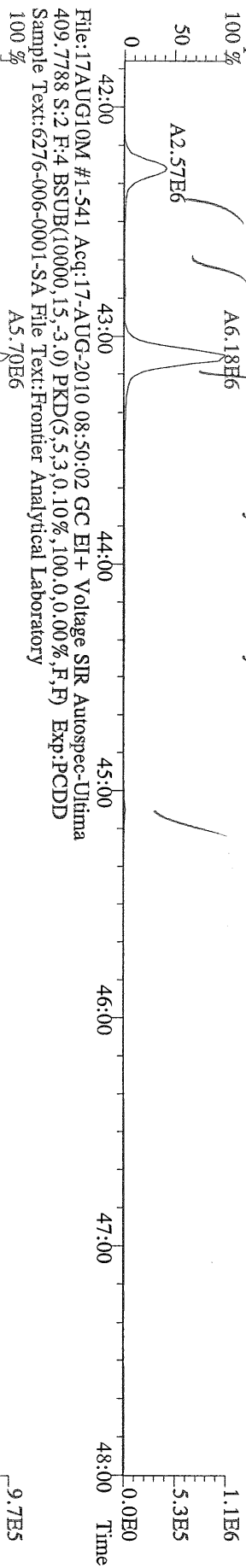
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



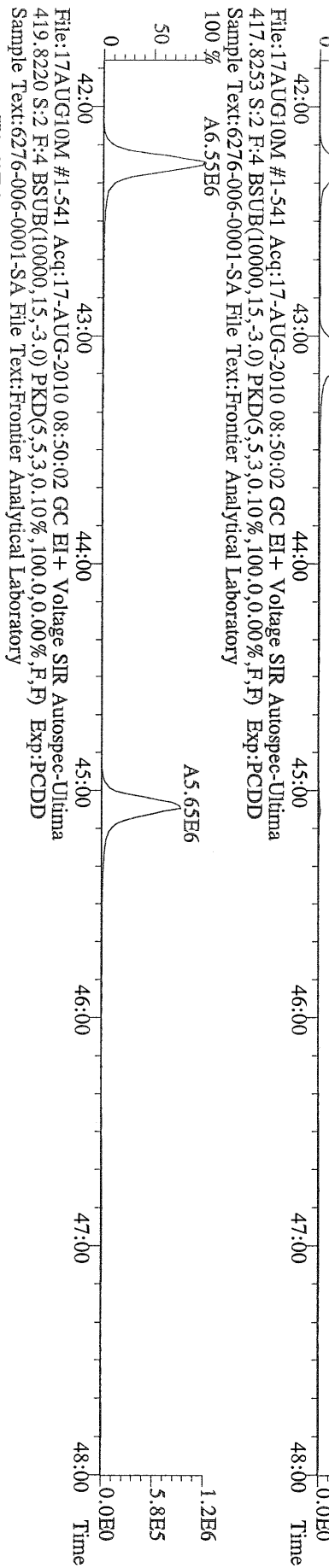
File:17AUG10M #1-477 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



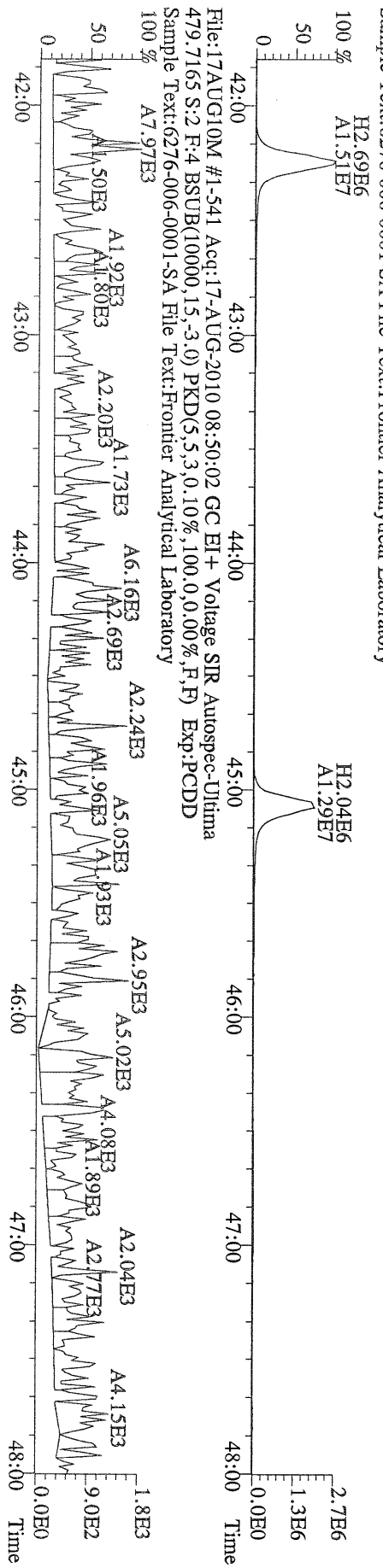
File:17AUG10M #1-541 Acq:17-AUG-2010 08:50:02 GC EI + Voltage SIR Autospec-Utima  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory



File:17AUG10M #1-541 Acq:17-AUG-2010 08:50:02 GC EI + Voltage SIR Autospec-Utima  
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:6276-006-0001-SA File Text:Frontier Analytical Laboratory

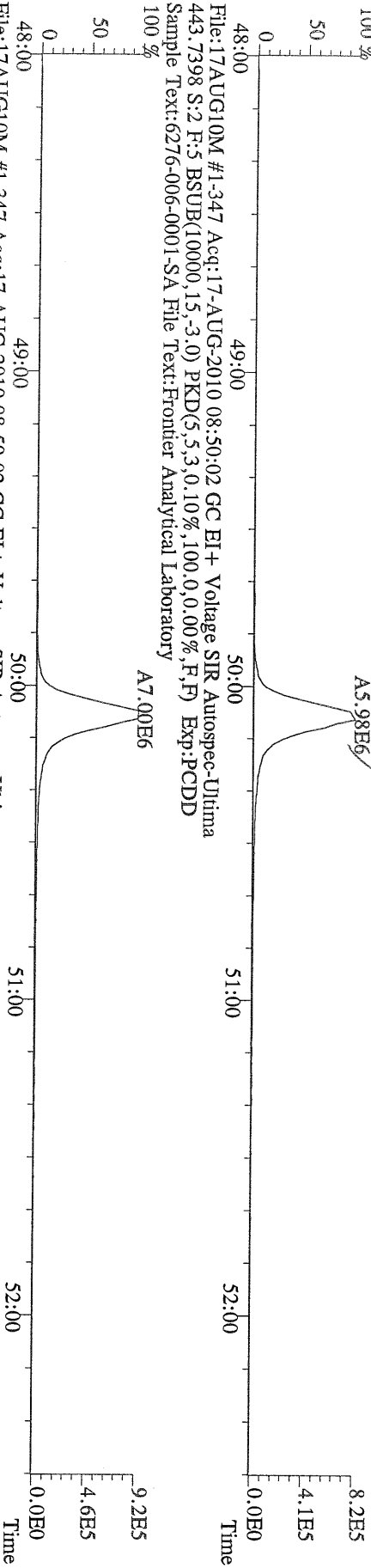


File:17AUG10M #1-541 Acq:17-AUG-2010 08:50:02 GC EI + Voltage SIR Autospec-Utima  
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory

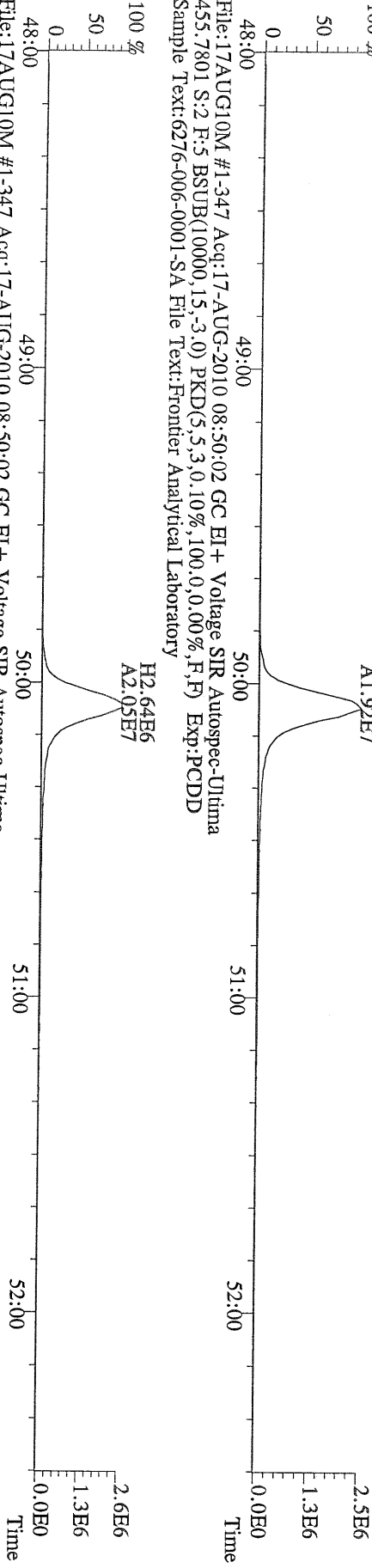




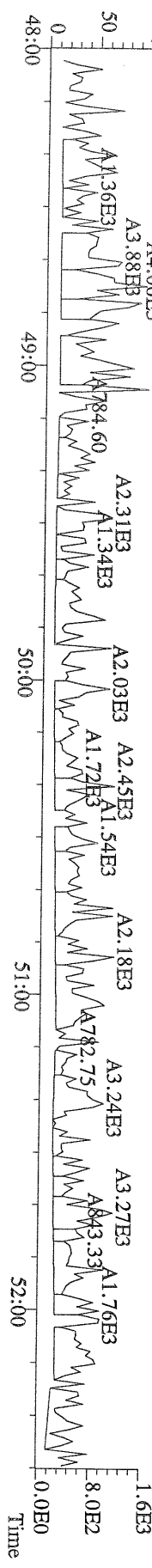
File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Utima  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Utima  
453.7831 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:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:17AUG10M #1-347 Acq:17-AUG-2010 08:50:02 GC EI+ Voltage SIR Autospec-Utima  
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:6276-006-0001-SA File Text:Frontier Analytical Laboratory  
100 %



FAL ID: 6276-007-0001-SA      Filename: 10AUG10M      Sam:5      Acquired: 10-AUG-10 13:28:37      ICal: PCDDFAL3-5-12-10  
 Client ID: PSB15-2-4-073010      ConCal: ST081010M1      EndCal: ST081010M2  
 Results: 6276-10      GC Column: DB5      Amount: 2.880      NATO 1989 Tox: 45.0

WHO 1998 Tox: 45.7      WHO 2005 Tox: 45.6

*51.9*  
*45.6*  
*8/19/10*

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	476	1030	0.844	
1,2,3,7,8-PeCDD	1.04e+05	1.45 y	33:14	1.05	5.78	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.72e+05	1.39 y	38:36	1.30	10.9		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	8.60e+05	1.41 y	38:46	1.28	58.6		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	4.49e+05	1.41 y	39:12	1.25	30.4		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	2.88e+07	1.02 y	44:11	1.35	2020		2.50	-	-	*	
OCDD	*	* n	NotFnd	1.25	* <i>21,200</i>	*	2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	546	1140	0.411	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	944	659	0.853	
2,3,4,7,8-PeCDF	6.19e+04	1.58 y	32:49	0.94	2.73	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	2.32e+05	1.40 y	37:12	0.93	10.5		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.30e+05	1.42 y	37:24	0.84	5.72	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.96e+05	1.14 y	38:20	0.90	9.59		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	2.73e+04	1.07 y	39:48	0.98	1.40	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	8.67e+06	1.05 y	42:17	1.38	520		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	2.41e+05	0.98 y	45:07	1.62	15.0		2.50	-	-	*	
OCDF	2.12e+07	0.86 y	50:07	0.74	2420		2.50	-	-	*	
13C-2,3,7,8-TCDD	1.26e+07	0.84 y	27:23	0.93	525					75.6	
13C-1,2,3,7,8-PeCDD	1.20e+07	1.75 y	33:13	0.81	572					82.3	
13C-1,2,3,4,7,8-HxCDD	8.44e+06	1.26 y	38:34	0.95	547					78.8	
13C-1,2,3,6,7,8-HxCDD	7.98e+06	1.27 y	38:44	1.00	493					70.9	
13C-1,2,3,4,6,7,8-HpCDD	7.30e+06	1.02 y	44:10	0.92	487					70.1	
13C-OCDD	*	* n	NotFnd	0.63	*	*				* <i>54.5'</i>	
13C-2,3,7,8-TCDF	1.91e+07	0.88 y	26:38	0.87	543					78.3	
13C-1,2,3,7,8-PeCDF	1.76e+07	1.66 y	31:28	0.81	538					77.5	
13C-2,3,4,7,8-PeCDF	1.67e+07	1.65 y	32:48	0.75	548					79.0	
13C-1,2,3,4,7,8-HxCDF	1.64e+07	0.53 y	37:10	1.74	581					83.6	
13C-1,2,3,6,7,8-HxCDF	1.88e+07	0.52 y	37:23	2.17	532					76.6	
13C-2,3,4,6,7,8-HxCDF	1.59e+07	0.52 y	38:19	1.82	536					77.2	
13C-1,2,3,7,8,9-HxCDF	1.37e+07	0.51 y	39:45	1.49	568					81.8	
13C-1,2,3,4,6,7,8-HpCDF	8.39e+06	0.43 y	42:15	1.10	469					67.6	
13C-1,2,3,4,7,8,9-HpCDF	6.87e+06	0.43 y	45:05	0.81	517					74.5	
13C-OCDF	1.65e+07	0.97 y	50:05	1.19	852					61.3	
37Cl-2,3,7,8-TCDD	4.93e+06		27:24	0.93	204					73.6	
13C-1,2,3,4-TCDD	1.80e+07	0.82 y	26:48	-	18.4						
13C-1,2,3,4-TCDF	2.81e+07	0.88 y	25:32	-	18.3						
13C-1,2,3,7,8,9-HxCDD	1.13e+07	1.26 y	39:11	-	18.2						
Total Tetra-Dioxins	2.14e+05		24:23	1.04	11.3		2.50	-	-	*	7
Total Penta-Dioxins	9.19e+05		30:14	1.05	50.9		2.50	-	-	*	10
Total Hexa-Dioxins	6.30e+06		36:08	1.27	420		2.50	-	-	*	8
Total Hepta-Dioxins	5.88e+07		42:48	1.35	4130		2.50	-	-	*	2
Total Tetra-Furans	6.73e+05		23:24	1.62	15.1		2.50	-	-	*	9
1st Fn. Tot Penta-Furans	8.17e+05		28:27	0.93	35.6		2.50	-	-	*	PeCDF 1
Total Penta-Furans	6.47e+05		30:04	0.93	28.2		2.50	-	-	*	<i>55.9</i> 6
Total Hexa-Furans	7.65e+06		35:14	0.90	362		2.50	-	-	*	<i>63.8</i> 8
Total Hepta-Furans	2.95e+07		42:17	1.48	1800		2.50	-	-	*	<i>63.8</i> 8 <i>8/11/10</i>

Analyst: 

Date: 8/11/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 11

File: 10AUG10M

S: 5 I: 1 F: 1

Acquired: 10-AUG-10 13:28:37

Total Concentration: 11.3

Unnamed Concentration: 11.347

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:23	1.27e+04	1.70e+04	0.75 y	2.97e+04	1.58	
24:41	9.40e+03	1.41e+04	0.67 y	2.35e+04	1.25	
24:59	1.13e+04	1.49e+04	0.76 y	2.62e+04	1.39	
25:36	1.85e+04	2.19e+04	0.84 y	4.04e+04	2.15	
25:48	1.61e+04	1.99e+04	0.81 y	3.59e+04	1.91	
25:57	1.51e+04	1.79e+04	0.84 y	3.30e+04	1.75	
26:48	1.12e+04	1.37e+04	0.81 y	2.48e+04	1.32	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 11 File: 10AUG10M S: 5 I: 1 F: 2  
Acquired: 10-AUG-10 13:28:37

Total Concentration: 50.9

Unnamed Concentration: 45.125

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:14	1.32e+05	8.16e+04	1.62 y	2.14e+05	11.9	
30:51	6.04e+04	3.60e+04	1.68 y	9.64e+04	5.34	
31:29	4.13e+04	2.71e+04	1.52 y	6.84e+04	3.79	
31:43	8.59e+04	5.42e+04	1.58 y	1.40e+05	7.76	
31:50	4.42e+04	2.68e+04	1.65 y	7.10e+04	3.93	
32:08	7.64e+04	4.74e+04	1.61 y	1.24e+05	6.86	
32:38	1.58e+04	1.02e+04	1.55 y	2.60e+04	1.44	
33:14	6.17e+04	4.26e+04	1.45 y	1.04e+05	5.78	1,2,3,7,8-PeCDD
33:19	2.08e+04	1.30e+04	1.60 y	3.38e+04	1.87	
33:49	2.53e+04	1.58e+04	1.60 y	4.11e+04	2.28	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 11 File: 10AUG10M S: 5 I: 1 F: 3  
Acquired: 10-AUG-10 13:28:37

Total Concentration: 420

Unnamed Concentration: 319.876

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:08	1.01e+06	7.20e+05	1.40 y	1.73e+06	115	
37:04	1.63e+05	1.15e+05	1.42 y	2.78e+05	18.4	
37:29	1.50e+06	1.06e+06	1.42 y	2.56e+06	170	
37:41	7.85e+04	6.66e+04	1.18 y	1.45e+05	9.63	
38:36	1.00e+05	7.18e+04	1.39 y	1.72e+05	10.9	1,2,3,4,7,8-HxCDD
38:46	5.03e+05	3.57e+05	1.41 y	8.60e+05	58.6	1,2,3,6,7,8-HxCDD
39:03	5.98e+04	4.37e+04	1.37 y	1.03e+05	6.87	
39:12	2.62e+05	1.86e+05	1.41 y	4.49e+05	30.4	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 11

File: 10AUG10M

S: 5 I: 1 F: 4

Acquired: 10-AUG-10 13:28:37

Total Concentration: 4130

Unnamed Concentration: 2111.586

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	1.50e+07	1.51e+07	0.99 y	3.01e+07	2110	
44:11	1.45e+07	1.43e+07	1.02 y	2.88e+07	2020	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 11

File: 10AUG10M

S: 5 I: 1 F: 1

Acquired: 10-AUG-10 13:28:37

Total Concentration: 15.1

Unnamed Concentration: 15.112

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:24	1.60e+04	2.26e+04	0.71 y	3.86e+04	0.867	
23:48	8.88e+04	1.26e+05	0.70 y	2.15e+05	4.83	
24:10	2.31e+04	3.23e+04	0.71 y	5.53e+04	1.24	
24:26	2.35e+04	3.29e+04	0.72 y	5.64e+04	1.27	
24:43	3.47e+04	5.18e+04	0.67 y	8.65e+04	1.94	
25:27	3.48e+04	5.30e+04	0.66 y	8.78e+04	1.97	
25:32	1.33e+04	1.74e+04	0.76 y	3.06e+04	0.688	
26:58	1.41e+04	2.00e+04	0.70 y	3.40e+04	0.764	
28:28	2.78e+04	4.06e+04	0.69 y	6.84e+04	1.54	

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

Run: 11      File: 10AUG10M      S: 5 I: 1 F: 1  
Acquired: 10-AUG-10 13:28:37

Total Concentration: 35.6      Unnamed Concentration: 35.631

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:27	5.15e+05	3.02e+05	1.70 y	8.17e+05	35.6	



Totals class: Total Penta-Furans

Entry #: 44

Run: 11 File: 10AUG10M S: 5 I: 1 F: 2  
Acquired: 10-AUG-10 13:28:37

Total Concentration: 28.2

Unnamed Concentration: 25.498

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:04	2.66e+04	1.80e+04	1.48 y	4.46e+04	1.94	
30:14	1.88e+05	1.31e+05	1.44 y	3.18e+05	13.9	
30:56	7.80e+04	5.71e+04	1.36 y	1.35e+05	5.89	
31:50	2.61e+04	1.85e+04	1.41 y	4.46e+04	1.94	
32:49	3.79e+04	2.40e+04	1.58 y	6.19e+04	2.73	2,3,4,7,8-PeCDF
32:52	2.48e+04	1.74e+04	1.43 y	4.22e+04	1.84	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 11 File: 10AUG10M S: 5 I: 1 F: 3  
Acquired: 10-AUG-10 13:28:37

Total Concentration: 362

Unnamed Concentration: 334.664

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:14	3.59e+05	2.96e+05	1.21 y	6.55e+05	31.0	
35:31	1.44e+06	1.14e+06	1.27 y	2.58e+06	122	
36:06	4.74e+04	3.76e+04	1.26 y	8.50e+04	4.03	
36:26	2.05e+06	1.69e+06	1.21 y	3.75e+06	177	
37:12	1.36e+05	9.66e+04	1.40 y	2.32e+05	10.5	1,2,3,4,7,8-HxCDF
37:24	7.59e+04	5.36e+04	1.42 y	1.30e+05	5.72	1,2,3,6,7,8-HxCDF
38:20	1.04e+05	9.19e+04	1.14 y	1.96e+05	9.59	2,3,4,6,7,8-HxCDF
39:48	1.41e+04	1.32e+04	1.07 y	2.73e+04	1.40	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 11

File: 10AUG10M

S: 5 I: 1 F: 4

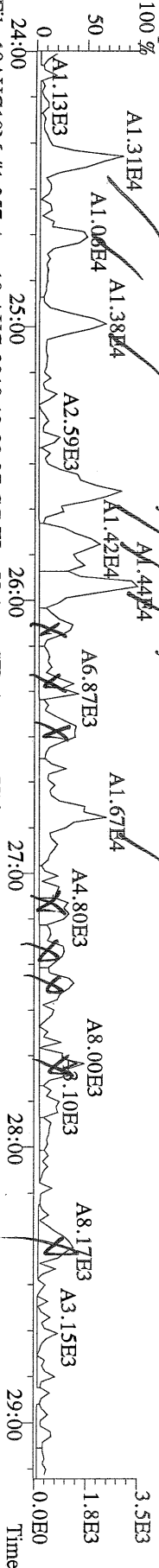
Acquired: 10-AUG-10 13:28:37

Total Concentration: 1800

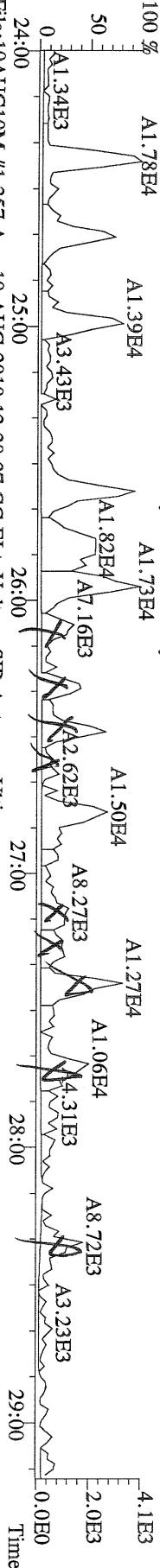
Unnamed Concentration: 1263.858

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	4.45e+06	4.23e+06	1.05 y	8.67e+06	520	1,2,3,4,6,7,8-HpCDF
42:49	5.09e+04	4.63e+04	1.10 y	9.72e+04	5.96	
43:06	1.06e+07	9.96e+06	1.06 y	2.05e+07	1260	
45:07	1.19e+05	1.21e+05	0.98 y	2.41e+05	15.0	1,2,3,4,7,8,9-HpCDF

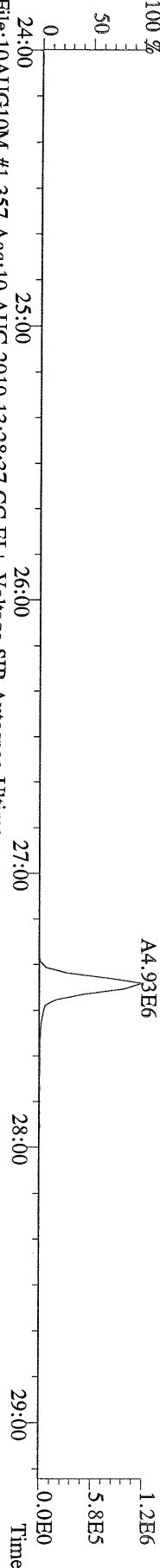
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319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



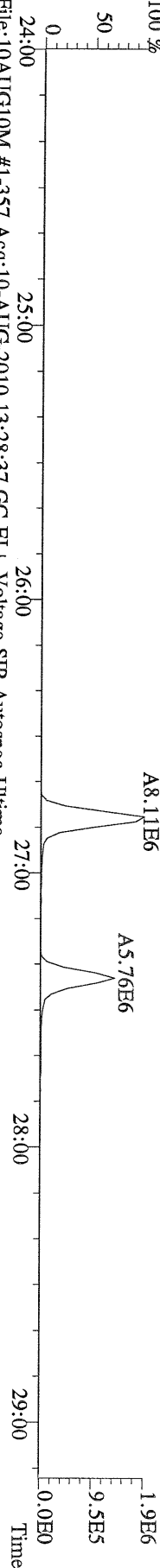
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321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



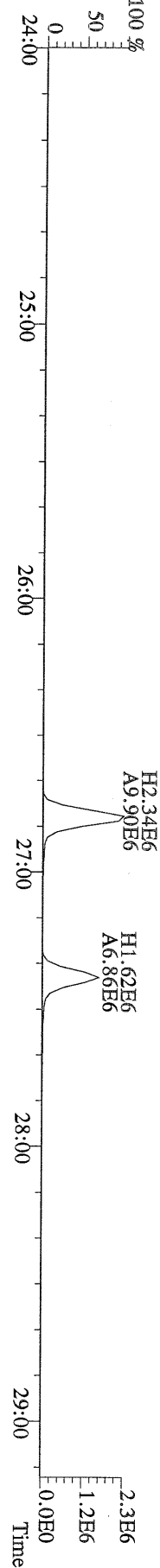
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327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



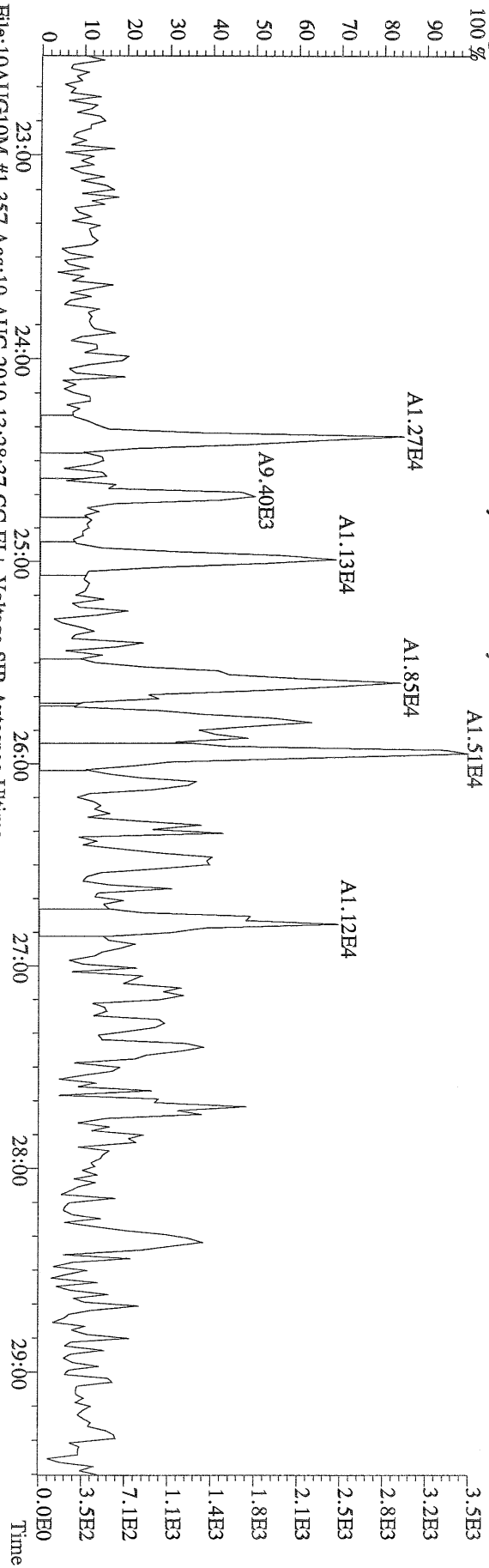
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331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



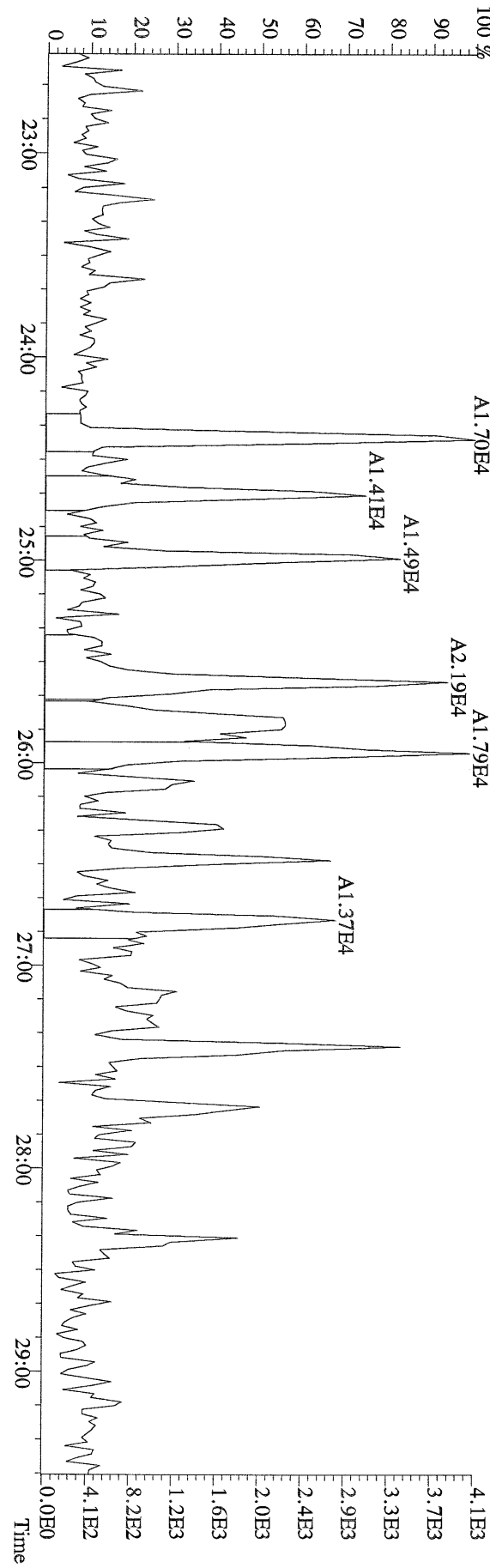
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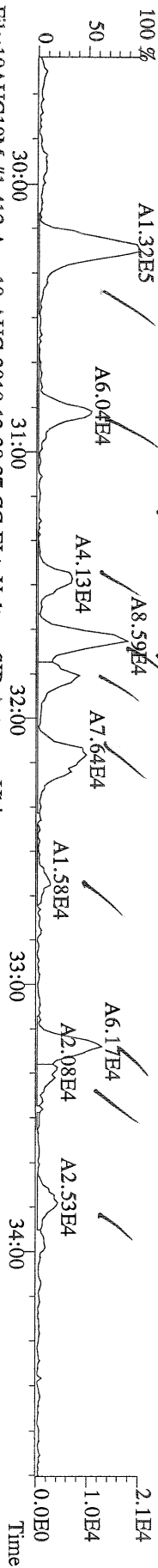
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 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



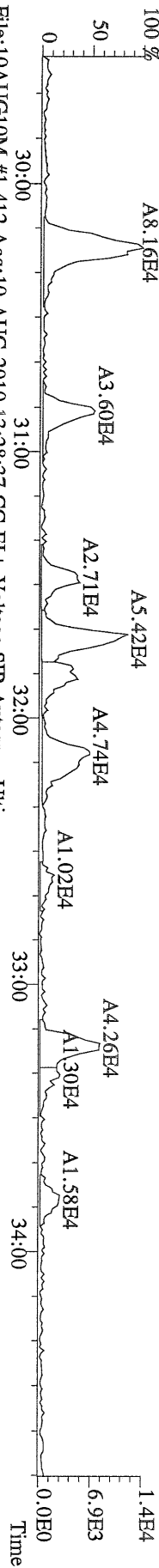
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 321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



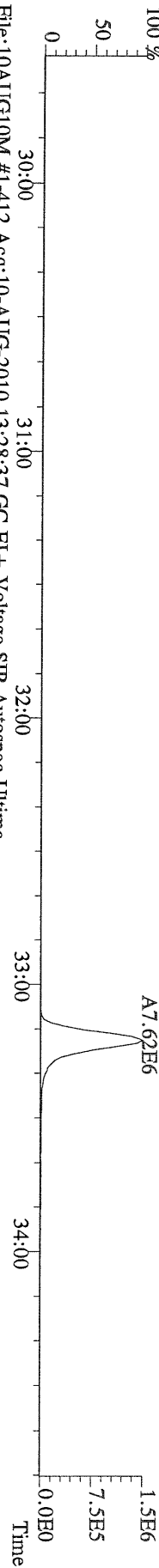
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 355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



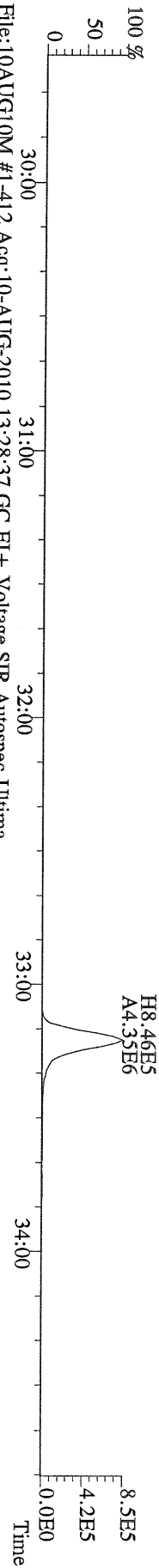
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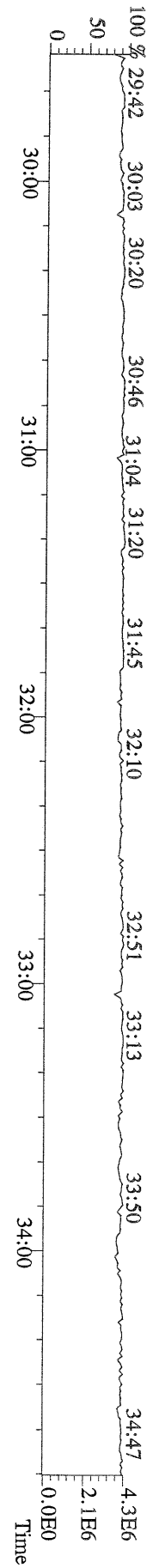
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 367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



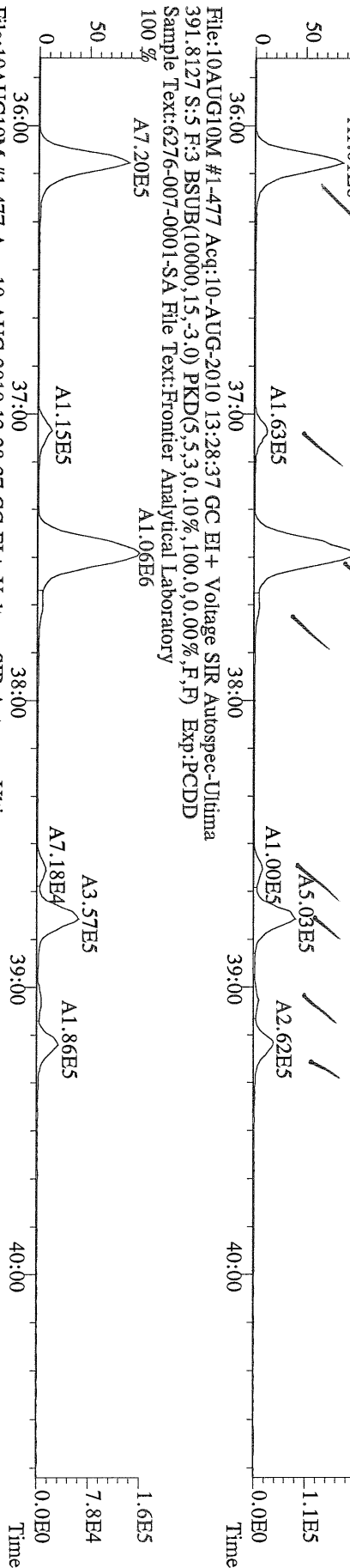
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 369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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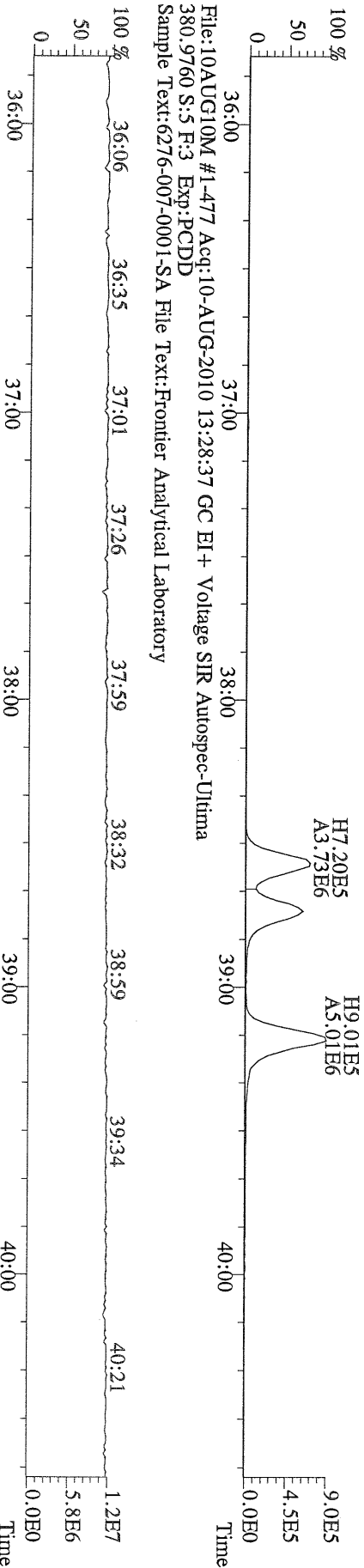
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 366.9792 S:5 F:2 Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



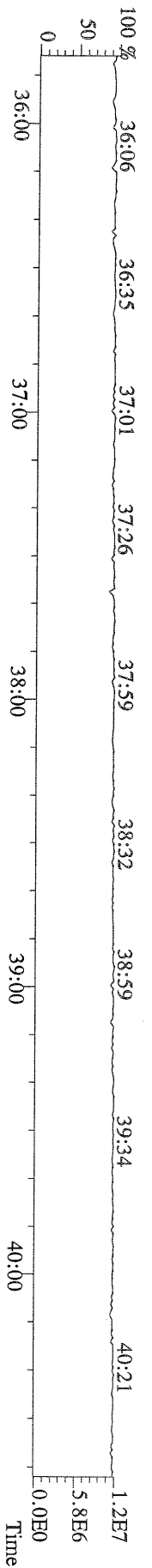
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 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



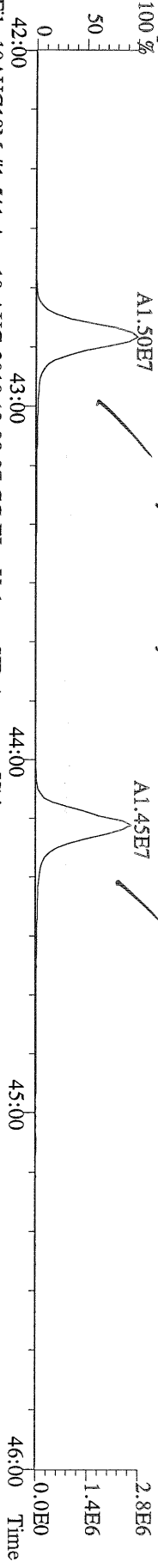
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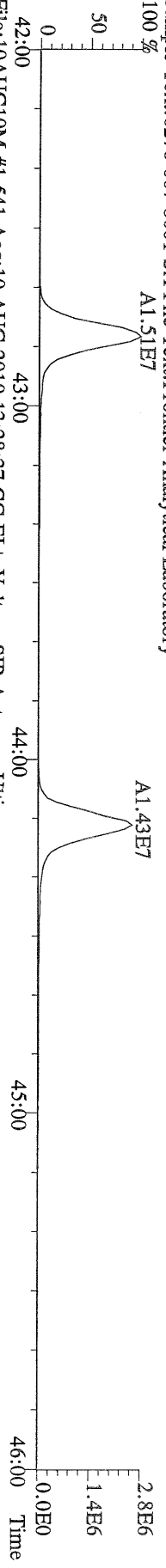
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 380.9760 S:5 F:3 Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



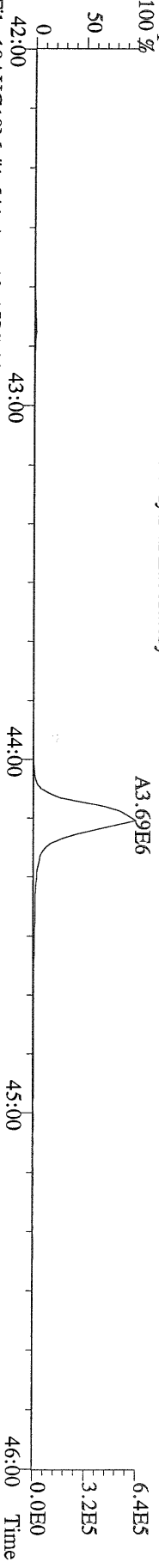
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423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



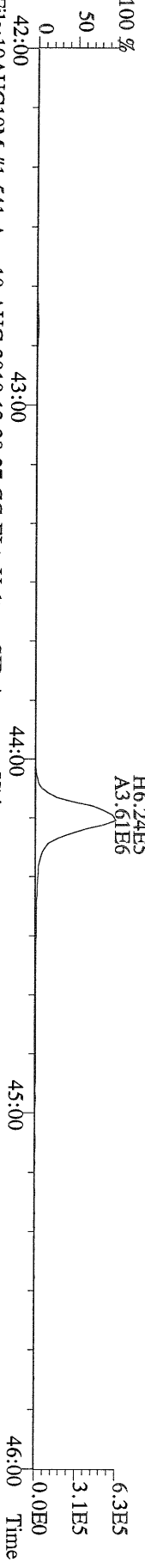
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425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



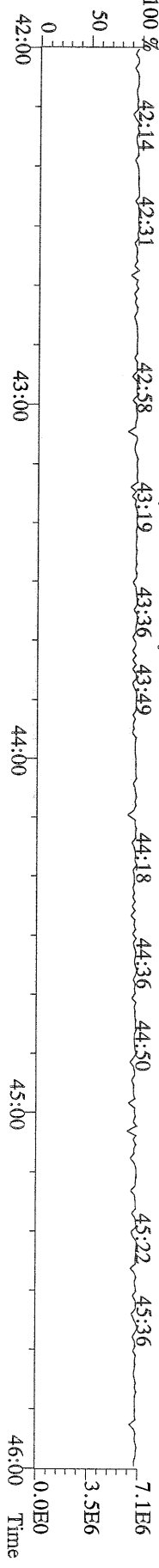
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435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



File:10AUG10M #1-541 Acq:10-AUG-2010 13:28:37 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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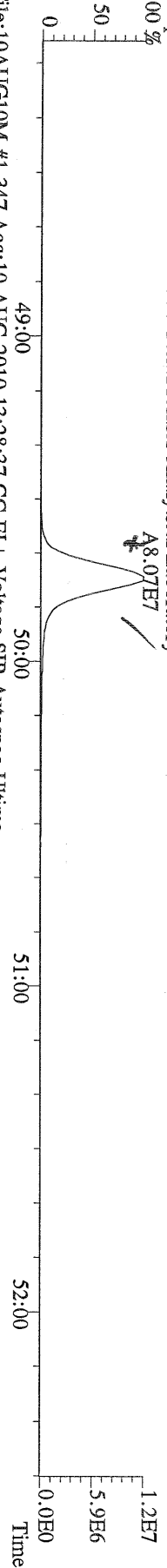


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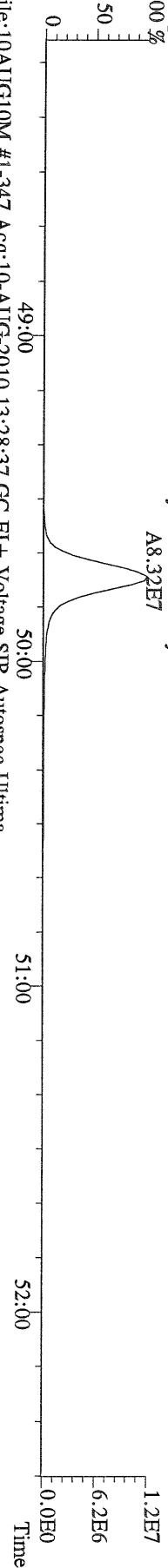




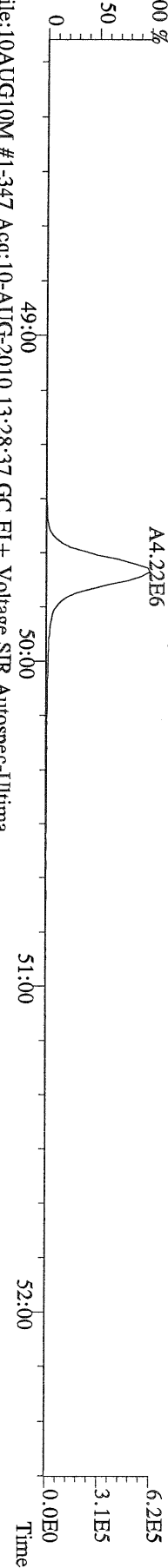
File:10AUG10M #1-347 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



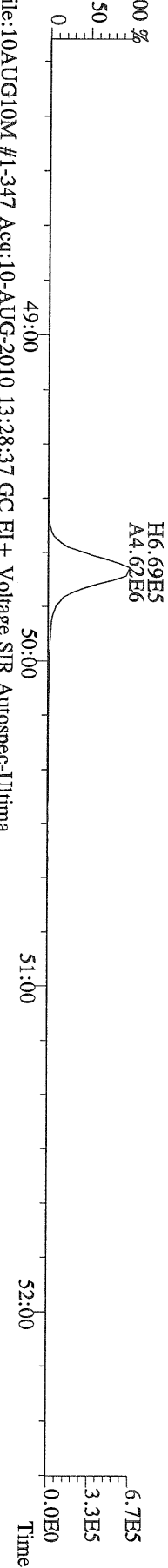
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 459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



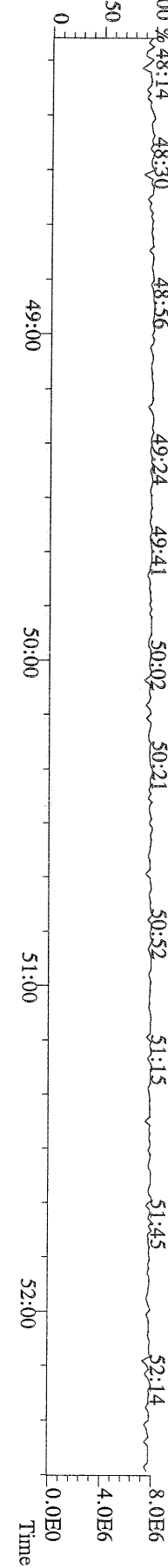
File:10AUG10M #1-347 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



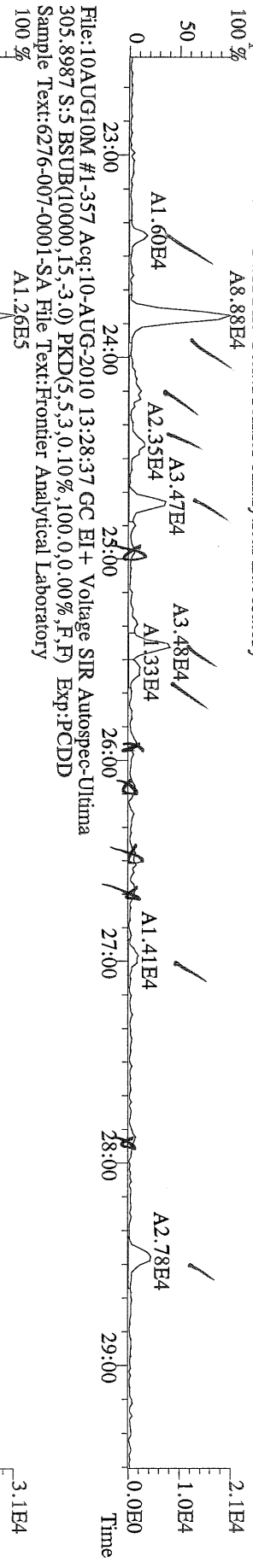
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 471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



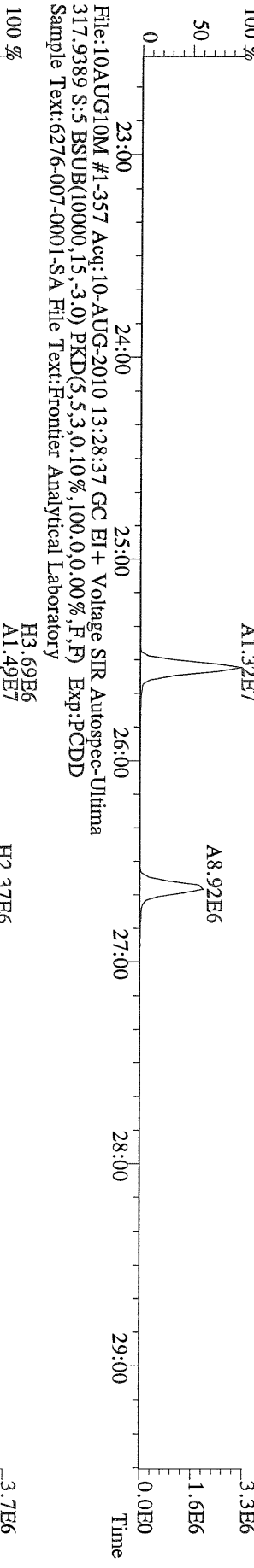
File:10AUG10M #1-347 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 454.9728 S:5 F:5 Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



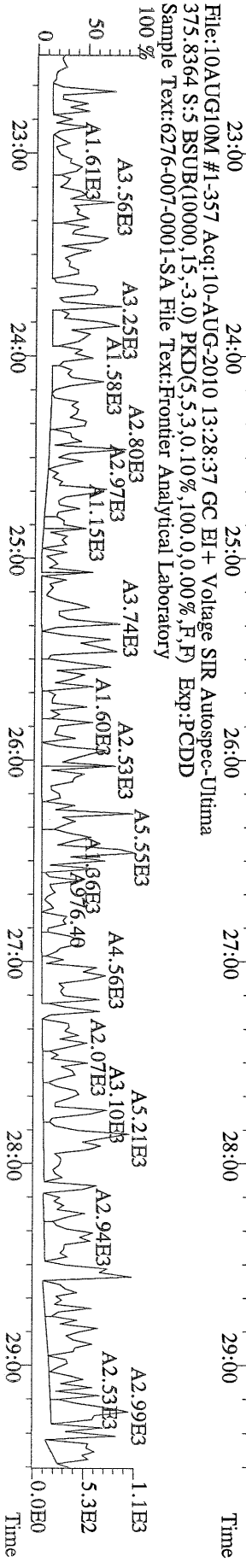
File:10AUG10M #1-357 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



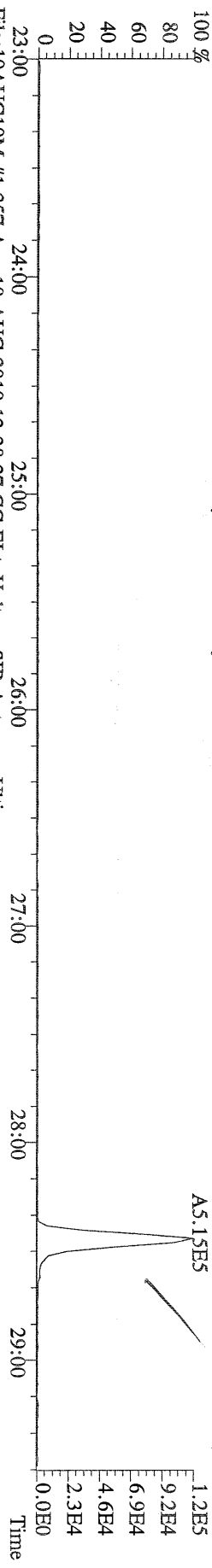
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315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



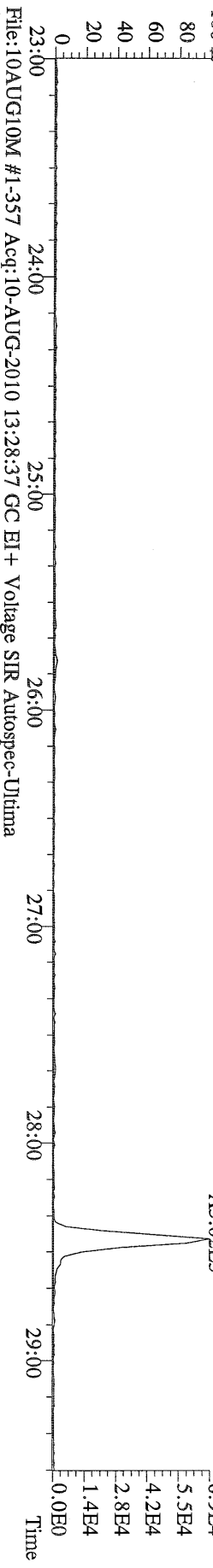
File:10AUG10M #1-357 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



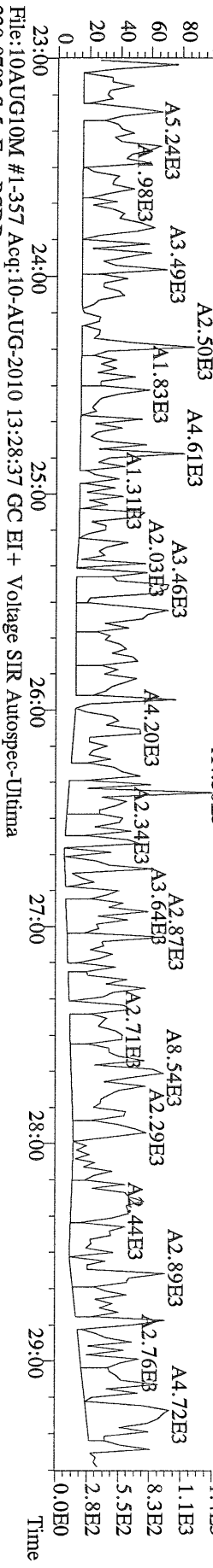
File:10AUG10M #1-357 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



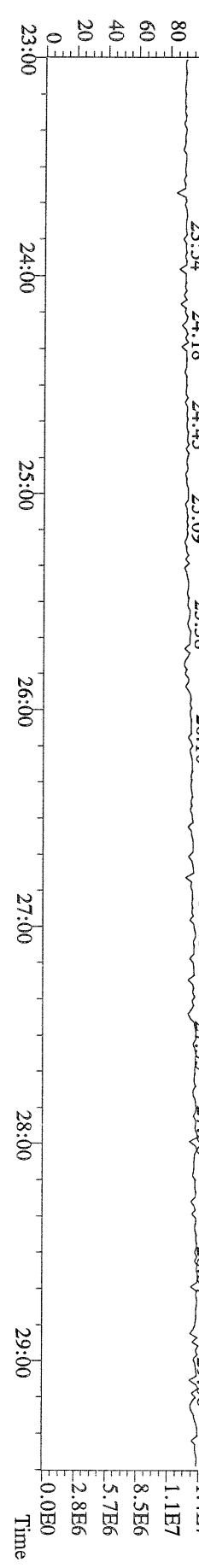
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 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



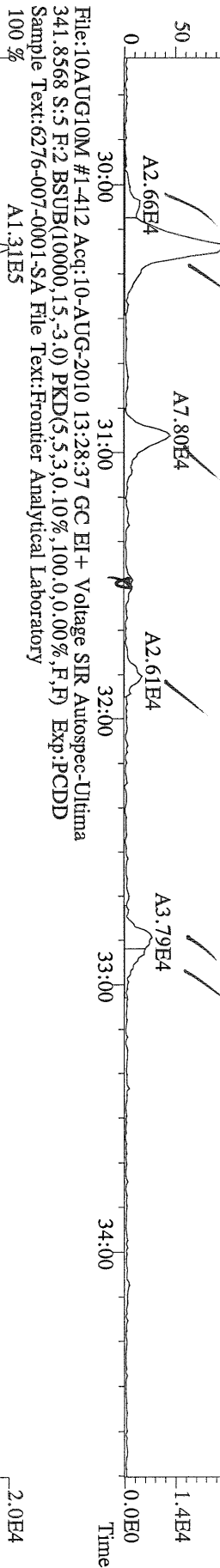
File:10AUG10M #1-357 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



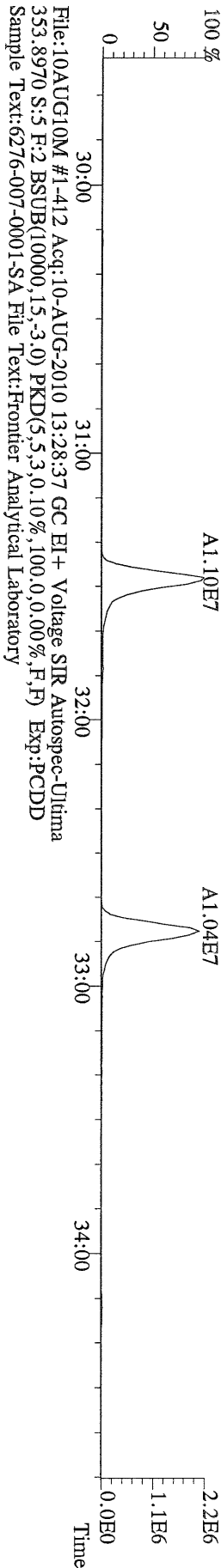
File:10AUG10M #1-357 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:5 Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



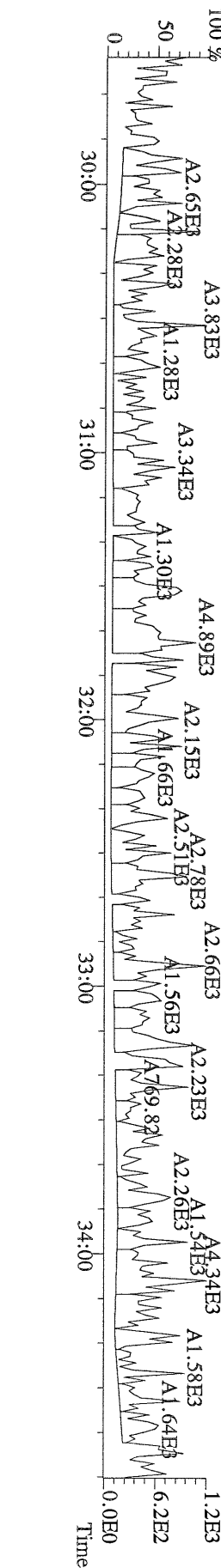
File:10AUG10M #1-412 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



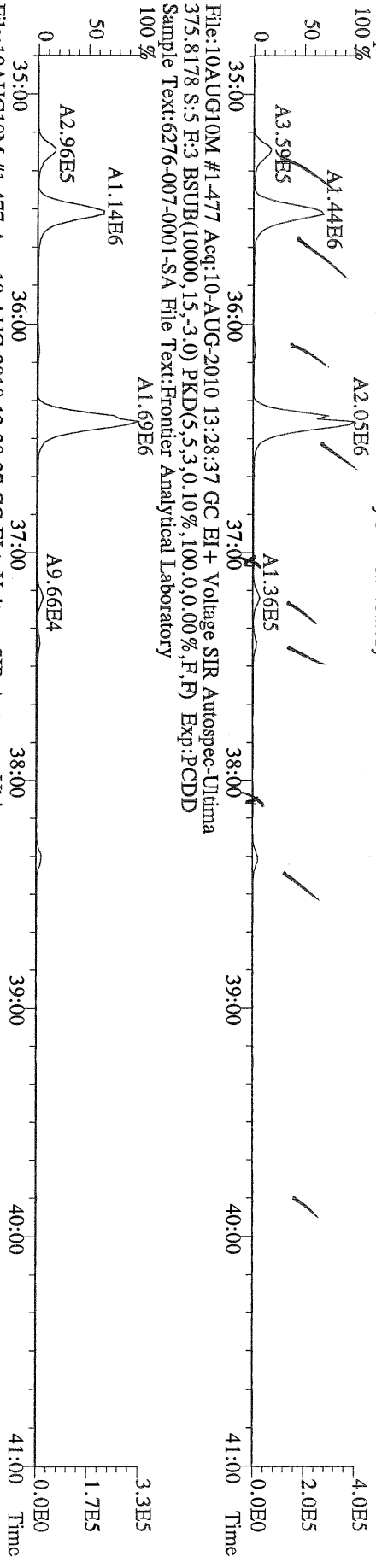
File:10AUG10M #1-412 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



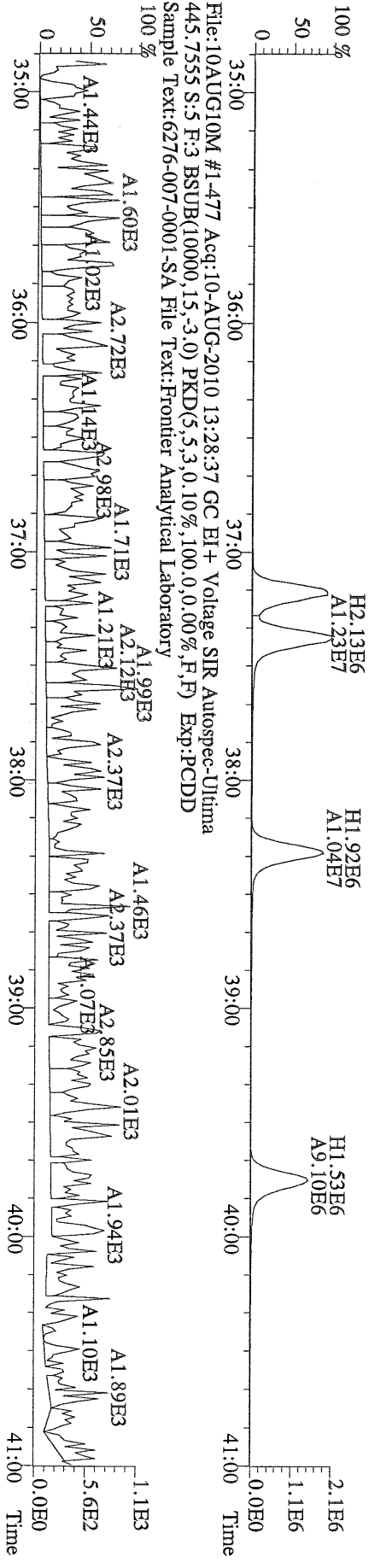
File:10AUG10M #1-412 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



File:10AUG10M #1-477 Acq:10-AUG-2010 13:28:37 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:6276-007-0001-SA File Text:Frontier Analytical Laboratory

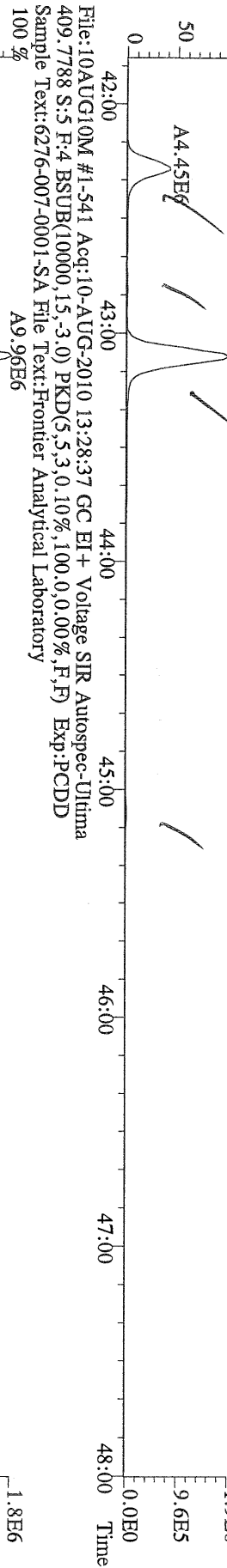


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383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory

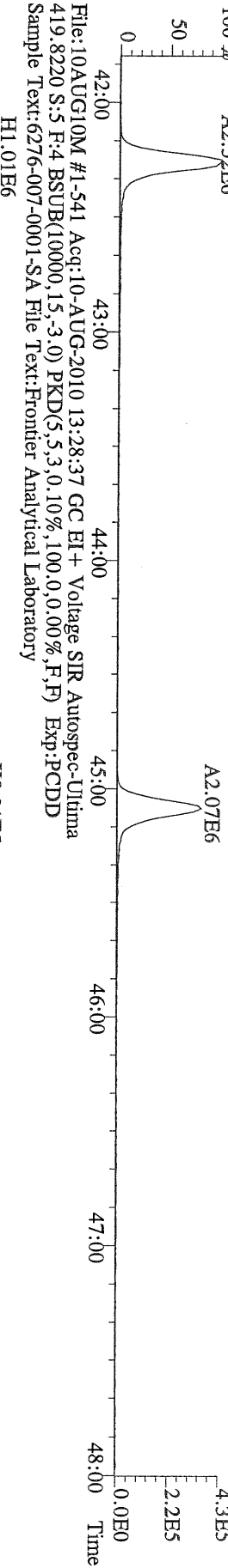


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445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory

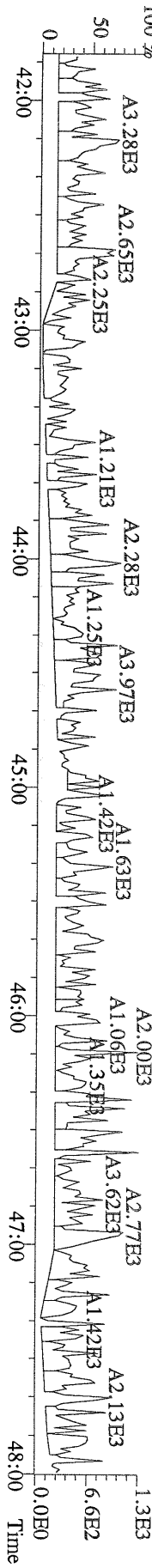
File:10AUG10M #1-541 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



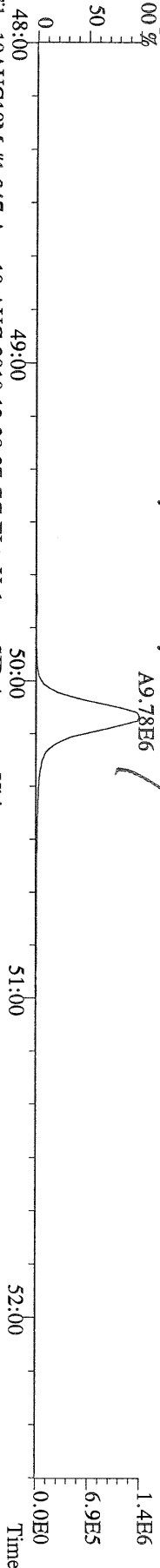
File:10AUG10M #1-541 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



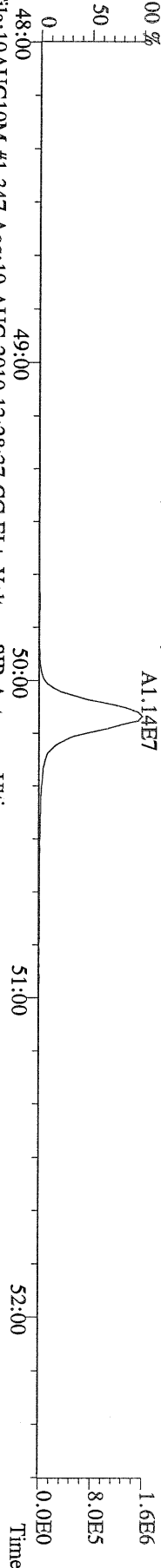
File:10AUG10M #1-541 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
 479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



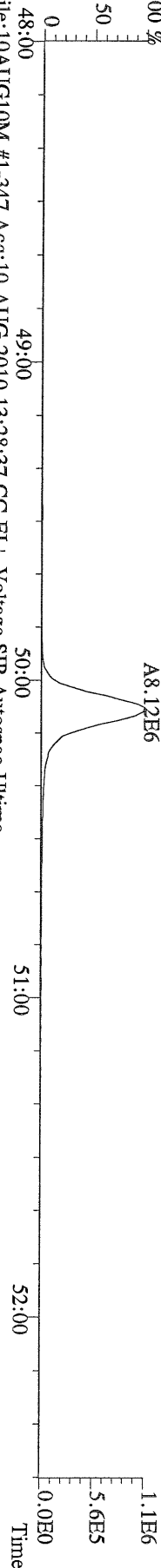
File:10AUG10M #1-347 Acq:10-AUG-2010 13:28:37 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



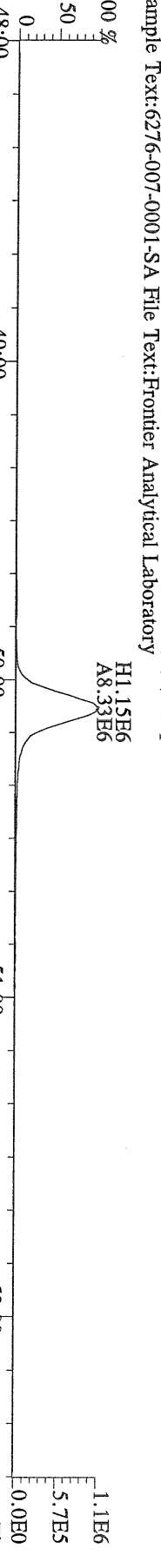
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443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



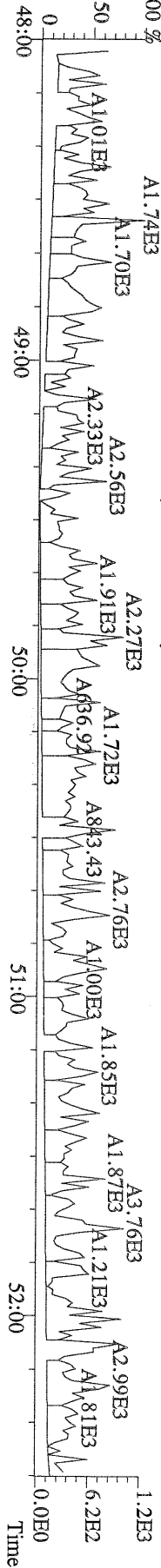
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



File:10AUG10M #1-347 Acq:10-AUG-2010 13:28:37 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:6276-007-0001-SA File Text:Frontier Analytical Laboratory



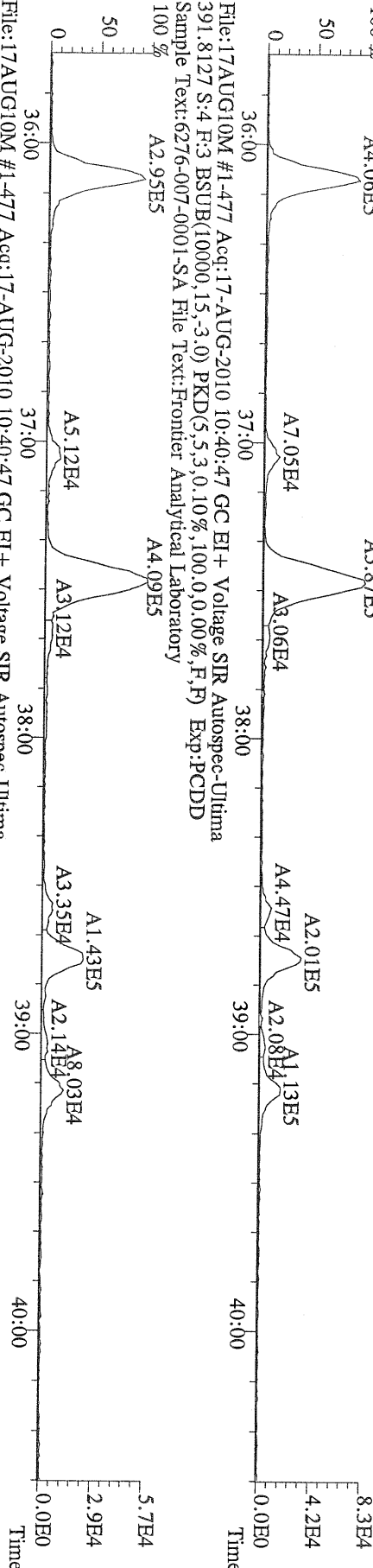
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513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



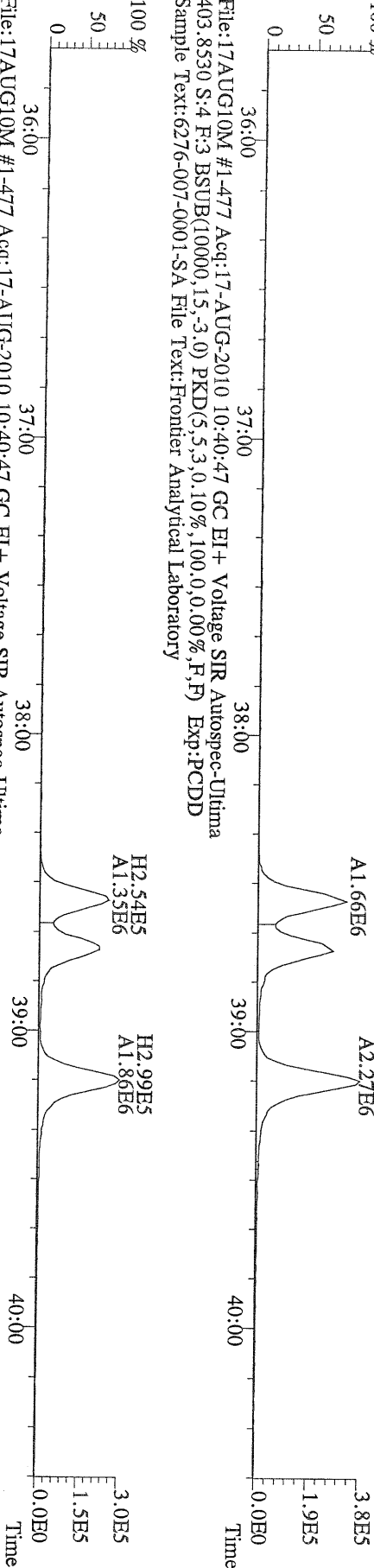




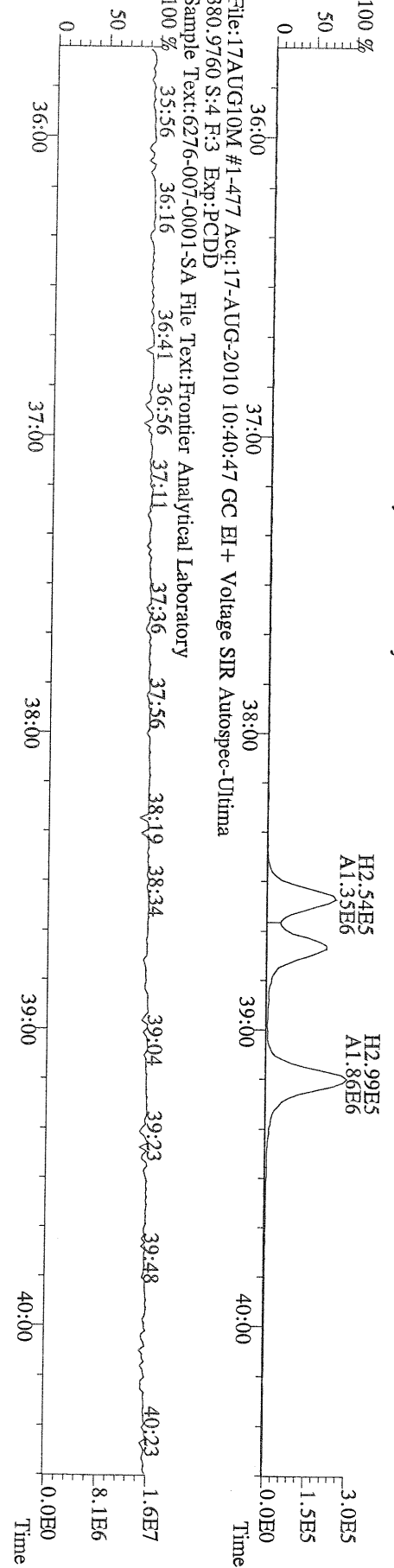
File:17AUG10M #1-477 Acq:17-AUG-2010 10:40:47 GC EI+ Voltage SIR Autospec-Utima  
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



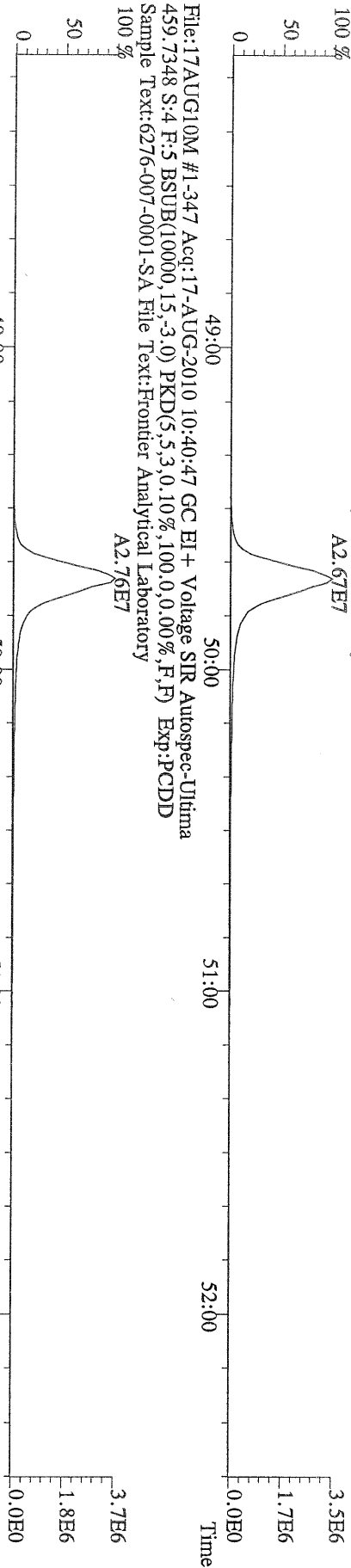
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 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



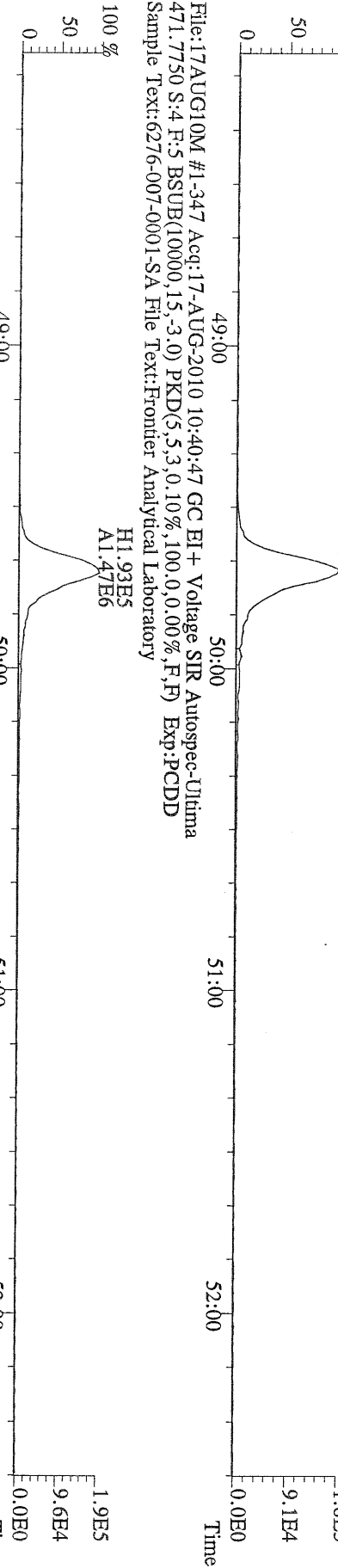
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 403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



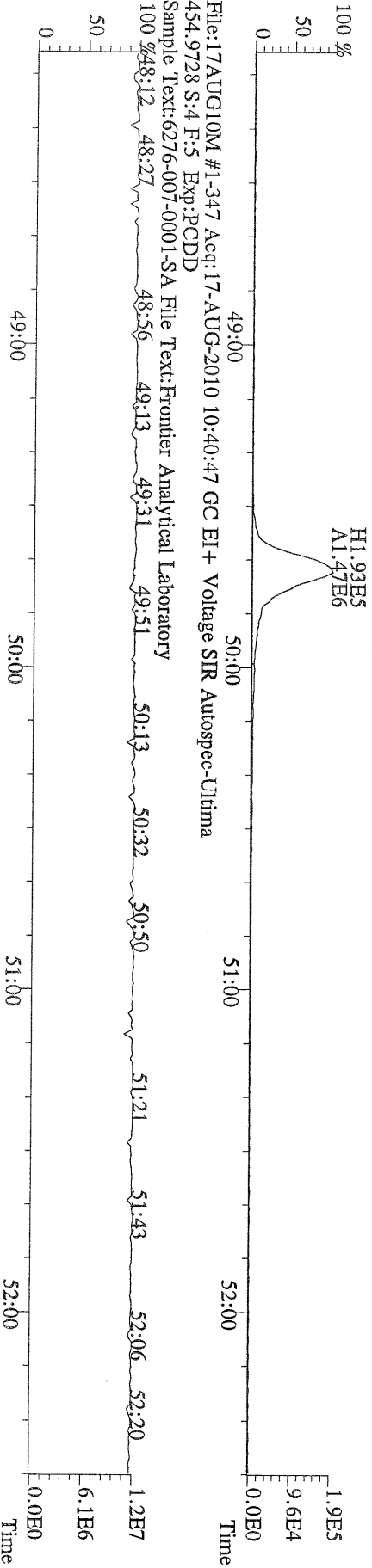
File:17AUG10M #1-347 Acq:17-AUG-2010 10:40:47 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
100 %



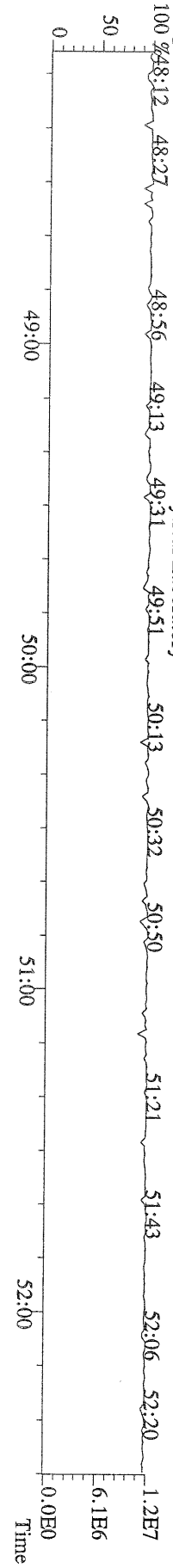
File:17AUG10M #1-347 Acq:17-AUG-2010 10:40:47 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory  
100 %



File:17AUG10M #1-347 Acq:17-AUG-2010 10:40:47 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory




File:17AUG10M #1-347 Acq:17-AUG-2010 10:40:47 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:4 F:5 Exp:PCDD  
Sample Text:6276-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6276-008-0001-SA      Filename: 10AUG10M      Sam:6      Acquired: 10-AUG-10 14:23:59      ICal: PCDDFAL3-5-12-10  
 Client ID: PSB15-4-6-073010      ConCal: ST081010M1      EndCal: ST081010M2  
 Results: 6276-10      GC Column: DB5      Amount: 4.200      NATO 1989 Tox: 144      WHO 1998 Tox: 160      WHO 2005 Tox:

159 3728  
 DL 8/19/10

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	1.68e+05	0.73 y	27:25	1.04	5.38		2.50	-	-	*		
1,2,3,7,8-PeCDD	9.15e+05	1.56 y	33:14	1.05	33.0		2.50	-	-	*		
1,2,3,4,7,8-HxCDD	1.75e+06	1.36 y	38:35	1.30	74.4		2.50	-	-	*		
1,2,3,6,7,8-HxCDD	8.74e+06	1.41 y	38:46	1.28	396		2.50	-	-	*		
1,2,3,7,8,9-HxCDD	4.67e+06	1.38 y	39:12	1.25	212		2.50	-	-	*		
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.35	* 12,700 *		2.50	-	-	*		
OCDD	*	* n	NotFnd	1.25	* 127,000 *		2.50	-	-	*		
2,3,7,8-TCDF	7.30e+04	0.85 y	26:39	1.62	1.08	J	2.50	-	-	*		
1,2,3,7,8-PeCDF	1.31e+05	1.54 y	31:30	0.92	3.68	J	2.50	-	-	*		
2,3,4,7,8-PeCDF	2.40e+05	1.40 y	32:49	0.94	6.69		2.50	-	-	*		
1,2,3,4,7,8-HxCDF	1.69e+06	1.17 y	37:12	0.93	49.2		2.50	-	-	*		
1,2,3,6,7,8-HxCDF	1.31e+06	1.14 y	37:24	0.84	37.4		2.50	-	-	*		
2,3,4,6,7,8-HxCDF	1.86e+06	1.22 y	38:21	0.90	60.3		2.50	-	-	*		
1,2,3,7,8,9-HxCDF	2.02e+05	1.26 y	39:49	0.98	7.07		2.50	-	-	*		
1,2,3,4,6,7,8-HpCDF	9.03e+07	1.04 y	42:17	1.38	3350		2.50	-	-	*		
1,2,3,4,7,8,9-HpCDF	2.26e+06	1.01 y	45:06	1.62	97.8		2.50	-	-	*		
OCDF	2.39e+05	1.26 n	49:51	0.74	* 12,800 *		2.50	-	-	*		
13C-2,3,7,8-TCDD	1.44e+07	0.81 y	27:24	0.93	454						95.4	
13C-1,2,3,7,8-PeCDD	1.26e+07	1.76 y	33:13	0.81	458						96.2	
13C-1,2,3,4,7,8-HxCDD	8.63e+06	1.26 y	38:34	0.95	454						95.4	
13C-1,2,3,6,7,8-HxCDD	8.22e+06	1.29 y	38:44	1.00	411						86.3	
13C-1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	0.92	*	*					* 93.4'	
13C-OCDD	*	* n	NotFnd	0.63	*	*					* 89.1'	
13C-2,3,7,8-TCDF	2.00e+07	0.86 y	26:39	0.87	446						93.7	
13C-1,2,3,7,8-PeCDF	1.85e+07	1.65 y	31:29	0.81	446						93.7	
13C-2,3,4,7,8-PeCDF	1.81e+07	1.66 y	32:49	0.75	467						98.1	
13C-1,2,3,4,7,8-HxCDF	1.76e+07	0.51 y	37:11	1.74	503						106	
13C-1,2,3,6,7,8-HxCDF	1.99e+07	0.53 y	37:23	2.17	457						95.9	
13C-2,3,4,6,7,8-HxCDF	1.64e+07	0.53 y	38:19	1.82	450						94.6	
13C-1,2,3,7,8,9-HxCDF	1.39e+07	0.52 y	39:45	1.49	464						97.5	
13C-1,2,3,4,6,7,8-HpCDF	9.30e+06	0.43 y	42:17	1.10	422						88.6	
13C-1,2,3,4,7,8,9-HpCDF	6.76e+06	0.43 y	45:05	0.81	413						86.7	
13C-OCDF	*	* n	NotFnd	1.19	*	*					* 86.4'	
37Cl-2,3,7,8-TCDD	5.39e+06		27:25	0.93	170						89.1	
13C-1,2,3,4-TCDD	1.62e+07	0.83 y	26:49	-	11.4							
13C-1,2,3,4-TCDF	2.45e+07	0.87 y	25:33	-	11.0							
13C-1,2,3,7,8,9-HxCDD	9.57e+06	1.25 y	39:11	-	10.6							
Total Tetra-Dioxins	6.00e+06		24:25	1.04	192		2.50	-	-	*		16
Total Penta-Dioxins	1.37e+07		30:15	1.05	495		2.50	-	-	*		10
Total Hexa-Dioxins	7.82e+07		36:08	1.27	3480		2.50	-	-	*		7
Total Hepta-Dioxins	*		NotFnd	1.35	* 26,600 *		2.50	-	-	*		0
Total Tetra-Furans	6.69e+06		23:03	1.62	98.7		2.50	-	-	*		22
1st Fn. Tot Penta-Furans	7.45e+06		28:27	0.93	208		2.50	-	-	*	PeCDF	1
Total Penta-Furans	5.59e+06		30:05	0.93	156		2.50	-	-	*	365	12
Total Hexa-Furans	8.01e+07		35:15	0.90	2490		2.50	-	-	*	364	9
Total Hepta-Furans	3.05e+08		42:17	1.48	11900		2.50	-	-	*	DL 8/19/10	

Analyst: 

Date: 8/19/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 12 File: 10AUG10M S: 6 I: 1 F: 1  
Acquired: 10-AUG-10 14:23:59

Total Concentration: 192

Unnamed Concentration: 186.817

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:25	1.11e+05	1.53e+05	0.72 y	2.63e+05	8.44	
24:41	1.13e+05	1.51e+05	0.75 y	2.65e+05	8.47	
25:00	2.86e+05	4.12e+05	0.69 y	6.99e+05	22.4	
25:38	2.88e+05	4.12e+05	0.70 y	7.01e+05	22.4	
25:48	3.47e+05	4.79e+05	0.72 y	8.26e+05	26.5	
25:58	1.75e+05	2.40e+05	0.73 y	4.16e+05	13.3	
26:07	8.48e+04	1.09e+05	0.78 y	1.94e+05	6.21	
26:19	7.87e+04	1.16e+05	0.68 y	1.95e+05	6.23	
26:30	1.91e+05	2.53e+05	0.75 y	4.44e+05	14.2	
26:47	3.06e+05	4.27e+05	0.72 y	7.32e+05	23.5	
27:10	6.30e+04	8.56e+04	0.74 y	1.49e+05	4.76	
27:17	7.86e+04	1.13e+05	0.70 y	1.92e+05	6.13	
27:25	7.09e+04	9.73e+04	0.73 y	1.68e+05	5.38	2,3,7,8-TCDD
27:43	1.19e+05	1.71e+05	0.70 y	2.90e+05	9.27	
27:50	4.34e+04	5.87e+04	0.74 y	1.02e+05	3.27	
28:21	1.59e+05	2.09e+05	0.76 y	3.68e+05	11.8	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 12 File: 10AUG10M  
Acquired: 10-AUG-10 14:23:59

S: 6 I: 1 F: 2

Total Concentration: 495

Unnamed Concentration: 461.545

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:15	2.57e+06	1.60e+06	1.61 y	4.17e+06	150	
30:52	1.20e+06	7.79e+05	1.53 y	1.97e+06	71.2	
31:29	4.37e+05	2.79e+05	1.56 y	7.16e+05	25.8	
31:42	9.50e+05	6.20e+05	1.53 y	1.57e+06	56.6	
31:51	5.65e+05	3.66e+05	1.54 y	9.31e+05	33.6	
32:08	1.36e+06	8.72e+05	1.56 y	2.23e+06	80.4	
32:37	1.50e+05	9.65e+04	1.56 y	2.47e+05	8.89	
33:14	5.58e+05	3.58e+05	1.56 y	9.15e+05	33.0	1,2,3,7,8-PeCDD
33:20	2.42e+05	1.46e+05	1.66 y	3.89e+05	14.0	
33:48	3.47e+05	2.27e+05	1.53 y	5.74e+05	20.7	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 12 File: 10AUG10M S: 6 I: 1 F: 3  
Acquired: 10-AUG-10 14:23:59

Total Concentration: 3480

Unnamed Concentration: 2797.658

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:08	1.49e+07	1.09e+07	1.37 y	2.58e+07	1140	
37:04	1.65e+06	1.17e+06	1.41 y	2.81e+06	125	
37:29	1.92e+07	1.41e+07	1.36 y	3.33e+07	1480	
38:35	1.01e+06	7.42e+05	1.36 y	1.75e+06	74.4	1,2,3,4,7,8-HxCDD
38:46	5.11e+06	3.63e+06	1.41 y	8.74e+06	396	1,2,3,6,7,8-HxCDD
39:04	6.53e+05	4.76e+05	1.37 y	1.13e+06	50.1	
39:12	2.71e+06	1.96e+06	1.38 y	4.67e+06	212	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 12 File: 10AUG10M S: 6 I: 1 F: 4  
Acquired: 10-AUG-10 14:23:59

Total Concentration: \*

Unnamed Concentration: \*

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
NotF <sub>1</sub>	*	* * n	*	*	

Totals class: Total Tetra-Furans

Entry #: 42

Run: 12 File: 10AUG10M S: 6 I: 1 F: 1  
Acquired: 10-AUG-10 14:23:59

Total Concentration: 98.7

Unnamed Concentration: 97.598

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:03	1.58e+04	2.03e+04	0.78 y	3.61e+04	0.533	
23:25	2.36e+05	3.56e+05	0.66 y	5.92e+05	8.73	
23:48	6.87e+05	1.04e+06	0.66 y	1.73e+06	25.5	
24:07	2.27e+05	3.16e+05	0.72 y	5.44e+05	8.01	
24:26	1.75e+05	2.57e+05	0.68 y	4.32e+05	6.37	
24:45	2.38e+05	3.57e+05	0.67 y	5.95e+05	8.77	
24:51	8.20e+04	1.05e+05	0.78 y	1.87e+05	2.75	
24:58	5.65e+04	8.43e+04	0.67 y	1.41e+05	2.08	
25:20	7.23e+04	9.09e+04	0.79 y	1.63e+05	2.41	
25:27	2.03e+05	3.05e+05	0.67 y	5.09e+05	7.50	
25:34	1.43e+05	2.02e+05	0.71 y	3.44e+05	5.08	
25:56	6.74e+04	8.74e+04	0.77 y	1.55e+05	2.28	
26:09	3.58e+04	4.36e+04	0.82 y	7.94e+04	1.17	
26:21	4.13e+04	5.44e+04	0.76 y	9.58e+04	1.41	
26:32	4.97e+04	6.77e+04	0.73 y	1.17e+05	1.73	
26:39	3.35e+04	3.95e+04	0.85 y	7.30e+04	1.08	2,3,7,8-TCDF
26:59	4.02e+04	4.83e+04	0.83 y	8.85e+04	1.30	
27:13	2.60e+04	2.98e+04	0.87 y	5.58e+04	0.823	
27:24	2.28e+04	2.60e+04	0.88 y	4.88e+04	0.720	
27:53	5.08e+04	6.84e+04	0.74 y	1.19e+05	1.76	
28:05	3.63e+04	4.56e+04	0.80 y	8.19e+04	1.21	
28:29	2.08e+05	2.98e+05	0.70 y	5.06e+05	7.45	



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

Run: 12 File: 10AUG10M S: 6 I: 1 F: 1  
Acquired: 10-AUG-10 14:23:59

Total Concentration: 208 Unnamed Concentration: 208.344

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:27	4.67e+06	2.78e+06	1.68 y	7.45e+06	208	

Totals class: Total Penta-Furans

Entry #: 44

Run: 12 File: 10AUG10M S: 6 I: 1 F: 2  
Acquired: 10-AUG-10 14:23:59

Total Concentration: 156

Unnamed Concentration: 146.033

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:05	2.16e+05	1.55e+05	1.39 y	3.71e+05	10.4	
30:14	1.52e+06	1.05e+06	1.46 y	2.57e+06	71.9	
30:42	1.03e+05	6.96e+04	1.48 y	1.73e+05	4.83	
30:56	7.42e+05	5.02e+05	1.48 y	1.24e+06	34.8	
31:14	4.92e+04	3.23e+04	1.53 y	8.15e+04	2.28	
31:30	7.97e+04	5.17e+04	1.54 y	1.31e+05	3.68	1,2,3,7,8-PeCDF
31:51	1.98e+05	1.38e+05	1.44 y	3.36e+05	9.39	
32:32	1.95e+04	1.34e+04	1.46 y	3.29e+04	0.920	
32:40	3.28e+04	2.27e+04	1.44 y	5.56e+04	1.55	
32:49	1.40e+05	1.00e+05	1.40 y	2.40e+05	6.69	2,3,4,7,8-PeCDF
32:52	1.74e+05	1.19e+05	1.46 y	2.93e+05	8.18	
34:08	3.76e+04	2.68e+04	1.41 y	6.44e+04	1.80	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 12 File: 10AUG10M  
Acquired: 10-AUG-10 14:23:59

S: 6 I: 1 F: 3

Total Concentration: 2490

Unnamed Concentration: 2331.112

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:15	3.90e+06	3.17e+06	1.23 y	7.07e+06	220	
35:31	1.51e+07	1.23e+07	1.23 y	2.74e+07	852	
36:07	4.72e+05	4.05e+05	1.17 y	8.77e+05	27.3	
36:26	2.17e+07	1.77e+07	1.22 y	3.94e+07	1220	
37:03	1.67e+05	1.18e+05	1.41 y	2.86e+05	8.89	
37:12	9.09e+05	7.78e+05	1.17 y	1.69e+06	49.2	1,2,3,4,7,8-HxCDF
37:24	6.97e+05	6.11e+05	1.14 y	1.31e+06	37.4	1,2,3,6,7,8-HxCDF
38:21	1.03e+06	8.39e+05	1.22 y	1.86e+06	60.3	2,3,4,6,7,8-HxCDF
39:49	1.13e+05	8.96e+04	1.26 y	2.02e+05	7.07	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 12

File: 10AUG10M

S: 6 I: 1 F: 4

Acquired: 10-AUG-10 14:23:59

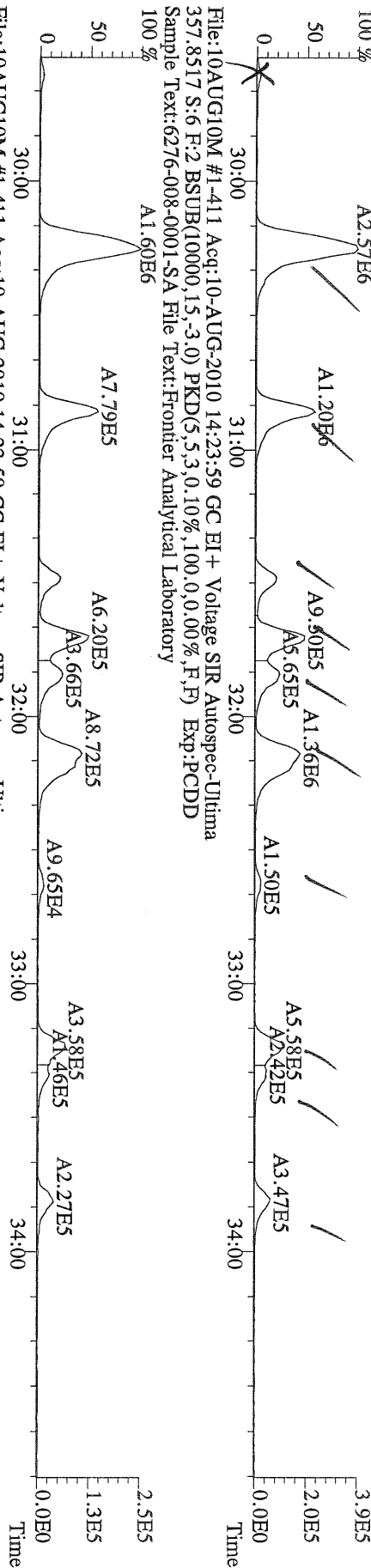
Total Concentration: 11900

Unnamed Concentration: 8468.243

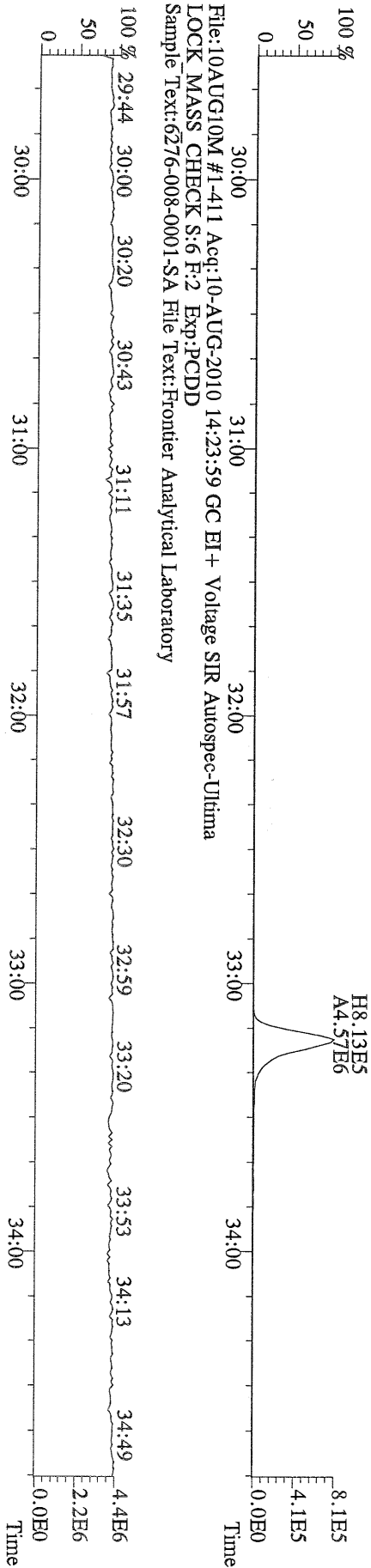
RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	4.60e+07	4.43e+07	1.04 y	9.03e+07	3350	1,2,3,4,6,7,8-HpCDF
42:50	7.91e+05	7.87e+05	1.00 y	1.58e+06	63.0	
43:07	1.08e+08	1.03e+08	1.05 y	2.10e+08	8410	
45:06	1.14e+06	1.12e+06	1.01 y	2.26e+06	97.8	1,2,3,4,7,8,9-HpCDF



File:10AUG10M #1-411 Acq:10-AUG-2010 14:23:59 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-008-0001-SA File Text:Frontier Analytical Laboratory



File:10AUG10M #1-411 Acq:10-AUG-2010 14:23:59 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6276-008-0001-SA File Text:Frontier Analytical Laboratory



File:10AUG10M #1-411 Acq:10-AUG-2010 14:23:59 GC EI+ Voltage SIR Autospec-Ultima  
 LOCK MASS CHECK S:6 F:2 Exp:PCDD  
 Sample Text:6276-008-0001-SA File Text:Frontier Analytical Laboratory