

Frontier Analytical Laboratory
PROJECT REQUEST SHEET

Project #: 6701 Sample #: 1-9 +MS/MSD Client Manager: BS
Client: Analytical Resources Inc. Sue Dunning Hold Time: 03/28/2012
Matrix: Sediment Extraction Batch: 2272 Due Date: 04/22/2011
Method: EPA 1613 D/F Storage: R1
SOP: SOPs: EP2A Rev. ⁹ IP2A Rev. ¹⁰
DN 4/12/11 DN 4/12/11

COMMENTS/INSTRUCTIONS:

Results: 6701
6701tcwf

Extract/s located in box: " PARADOX "

Standards: 6701

Instrument:
DB5 FAL-3
DB225 FAL-1
DB1 _____
Other _____

Frontier Analytical Laboratory
Percent Solids

FAL Project: 6701

	Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv	
1.32	6701-001-0001-SA	MP	4-11-11	9.40	1.88	20.00	50.00	1
1.31	6701-002-0001-SA			6.30	0.91	14.44	69.23	2
	6701-002-0001-MS			↓	↓	↓	↓	
	6701-002-0001-MSD			↓	↓	↓	↓	
1.32	6701-003-0001-SA			7.96	1.57	19.72	50.70	3
1.31	6701-004-0001-SA			6.29	1.10	17.47	57.18	4
1.33	6701-005-0001-SA			7.40	1.38	18.65	53.62	5
1.32	6701-006-0001-SA			12.01	9.34	77.77	12.86	6
1.32	6701-007-0001-SA			7.43	6.17	83.04	12.04	7
1.32	6701-008-0001-SA			12.29	10.46	85.11	11.75	8
1.31	6701-009-0001-SA	↓	↓	9.12	8.06	88.38	11.32	9
	6701-010-0001-SA	N/A	↓	→				
1.32	6701-007 SA	DN	4-18-11	12.63	10.38	82.19	12.17	
1.32	6701-008 SA	DN	4-18-11	14.26	12.00	84.15	11.88	
	DN 4/22/11							

% Solids Summary:

Non-Filtered Determination

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

Filtered Determination

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

% Solids calculation

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

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

Frontier Analytical Laboratory

EXTRACTION SHEET

Project #: 6701 Extraction Date: 2011-04-18 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: 100511A Vial: 5 Chemist/Witness/Date		Amt: 10.0uL ID: 100511B Vial: 5 Chemist/Witness/Date		Amt: 10.0uL ID: 100511C Vial: 5 Chemist/Witness/Date	
2272-001-0001-MB	(5.00g)	(5.00g)	GN	WM 4/18/11	NA		GN	4/19/11
2272-001-0001-OPR	(5.00g)	(5.00g)			GN	WM 4/18/11		
6701-001-0001-SA	16.42	3.28			NA			
6701-002-0001-SA	20.83	3.00 3.08			↓			
6701-002-0001-MS	20.85	3.01			GN	WM 4/18/11		
6701-002-0001-MSD	20.94	3.02			↓			
6701-003-0001-SA	15.91	3.14			NA			
6701-004-0001-SA	17.29	3.02						
6701-005-0001-SA	16.33	3.05						
6701-006-0001-SA	6.47	5.03						
6701-007-0001-SA	7.58 6.15	5.00 4.62						
6701-008-0001-SA	5.98	5.09						
6701-009-0001-SA	6.79	6.00						

AX-21 Charcoal Cleaned	082510	Acetone	107201	Acid Alumina	A0284730	Hexane	107925
Hydrochloric Acid	B08505	Methanol	105561	Methylene Chloride (DCM)	51042	Silica Gel	TA1592834
Sodium Hydroxide	0062836	Sodium Sulfate	1750C277	Sulfuric Acid	110205	Tetradecane	086237
Toluene	108273	Water	50321	C-18 Empore Discs	320555	Cyclohexane	50204

Comments:

Frontier Analytical Laboratory CLEANUP SHEET

Project #: 6701

Method/Analysis: EPA 1613 D/F

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
	<i>MSq/AA</i>	<i>Charcoal</i>	<i>NA</i>	Amt: 10.0uL ID: 100511D Vial: 8
2272-001-0001-MB	<i>GN 4/19/11</i>	<i>GN 4/19/11</i>	<i>NA</i>	<i>GN ◀ 4/19/11</i>
2272-001-0001-OPR	↓	↓	↓	↓
6701-001-0001-SA	↓	↓	↓	↓
6701-002-0001-SA	↓	↓	↓	↓
6701-002-0001-MS	↓	↓	↓	↓
6701-002-0001-MSD	↓	↓	↓	↓
6701-003-0001-SA	↓	↓	↓	↓
6701-004-0001-SA	↓	↓	↓	↓
6701-005-0001-SA	↓	↓	↓	↓
6701-006-0001-SA	↓	↓	↓	↓
6701-007-0001-SA	↓	↓	↓	↓
6701-008-0001-SA	↓	↓	↓	↓
6701-009-0001-SA	↓	↓	↓	↓

Comments:

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #: 6701 Sample #: 10 Client Manager: BS

Client: Analytical Resources Inc. Sue Dunning Hold Time: 03/28/2012

Matrix: Aqueous Extraction Batch: 2265 Due Date: 04/22/2011

Method: EPA 1613 D/F Storage: R1

SOP: SOPs: EP2A Rev. ⁹ IP2A Rev. ¹⁰
DN 4/12/11 DN 4/12/11

COMMENTS/INSTRUCTIONS:

	Sample Full Weight (g)	Empty Weight (g)
6701-010-0001-SA	1534.61	500.10

Results: 6701-10

Instrument:

- DB5 F20-3
- DB225 _____
- DB1 _____
- Other _____

Extract/s located in box: "I'm Dime"

Standards: 6684

Frontier Analytical Laboratory
Percent Solids

FAL Project: 6701

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv						
6701-001-0001-SA	See	other percent solids sheet for this information.										
6701-002-0001-SA	↓	↓	↓	↓	↓	↓						
6701-002-0001-MS												
6701-002-0001-MSD												
6701-003-0001-SA												
6701-004-0001-SA												
6701-005-0001-SA												
6701-006-0001-SA												
6701-007-0001-SA												
6701-008-0001-SA												
6701-009-0001-SA	↓	↓	↓	↓	↓	↓						
6701-010-0001-SA							MP	4.7.11	10.26	0.00	0.00	—

1.31

% Solids Summary:

Non-Filtered Determination

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

Filtered Determination

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

% Solids calculation

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

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

Frontier Analytical Laboratory

EXTRACTION SHEET

Project #: 6701 Extraction Date: 2011-04-07 Extraction Chemist: MP

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS	NS	CSS
			Amt: 10.0uL ID: 100511A Vial: 4 Chemist/Witness/Date	Amt: 10.0uL ID: 100511B Vial: 1 Chemist/Witness/Date	Amt: 10.0uL ID: 100511C Vial: 4 Chemist/Witness/Date
2265-001-0001-MB					
2265-001-0001-OPR					
6701-010-0001-SA	1.035L	N/A	MP 4.7.11	N/A	MP 4.8.11

684 ←

AX-21 Charcoal Cleaned	082510	Acetone	107201	Acid Alumina	A0284730	Hexane	107925
Hydrochloric Acid	B08505	Methanol	105561	Methylene Chloride (DCM)	51007	Silica Gel	TA1592834
Sodium Hydroxide	0062836	Sodium Sulfate	1750C277	Sulfuric Acid	106431	Tetradecane	086237
Toluene	108273	Water	50321	C-18 Empore Discs	320552	Cyclohexane	50204

Comments:

Frontier Analytical Laboratory CLEANUP SHEET

Project #: 6701

Method/Analysis: EPA 1613 D/F

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

6084

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
	MSG/ NA	N/A	N/A	Amt: 10.0uL ID: MP 100511D Vial: 4-8-11 87
2265-001-0001-MB				
2265-001-0001-OPR				
6701-010-0001-SA	MP / 4-8-11	N/A	N/A	MP [signature] 4-8-11

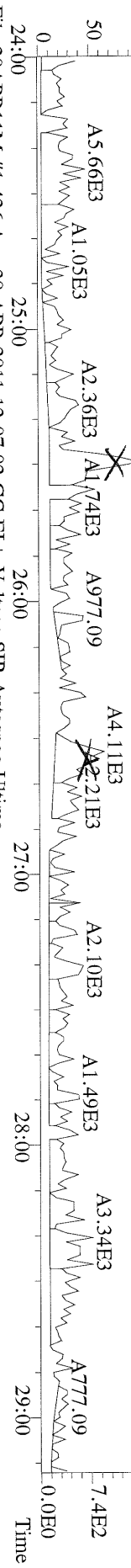
Comments:

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*		2.50	279	239	0.140	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	260	229	0.208	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	321	284	0.223	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	321	284	0.292	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	321	284	0.251	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.30	*		2.50	351	364	0.398	
OCDD	*	* n	NotFnd	1.45	*		2.50	387	444	0.956	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	388	366	0.114	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	286	283	0.159	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	286	283	0.179	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	285	287	0.183	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	285	287	0.180	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	285	287	0.214	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	285	287	0.182	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*		2.50	308	360	0.270	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	308	360	0.317	
OCDF	*	* n	NotFnd	0.84	*		2.50	250	236	0.475	
Rec											
13C-2,3,7,8-TCDD	1.38e+07	0.80 y	27:19	1.03	291					72.6	
13C-1,2,3,7,8-PeCDD	1.18e+07	1.78 y	33:08	1.01	254					63.4	
13C-1,2,3,4,7,8-HxCDD	9.39e+06	1.25 y	38:31	1.19	297					74.4	
13C-1,2,3,6,7,8-HxCDD	7.69e+06	1.32 y	38:40	0.94	310					77.6	
13C-1,2,3,4,6,7,8-HpCDD	7.91e+06	1.04 y	44:06	0.83	361					90.2	
13C-OCDD	8.32e+06	0.96 y	49:39	0.61	517					64.6	
13C-2,3,7,8-TCDF	2.40e+07	0.87 y	26:34	0.98	313					78.3	
13C-1,2,3,7,8-PeCDF	1.97e+07	1.74 y	31:25	0.83	303					75.8	
13C-2,3,4,7,8-PeCDF	1.78e+07	1.72 y	32:43	0.80	282					70.6	
13C-1,2,3,4,7,8-HxCDF	1.60e+07	0.48 y	37:07	1.84	328					82.0	
13C-1,2,3,6,7,8-HxCDF	1.98e+07	0.48 y	37:19	2.29	326					81.4	
13C-2,3,4,6,7,8-HxCDF	1.43e+07	0.47 y	38:15	1.86	290					72.5	
13C-1,2,3,7,8,9-HxCDF	1.63e+07	0.47 y	39:41	1.98	310					77.5	
13C-1,2,3,4,6,7,8-HpCDF	9.20e+06	0.44 y	42:12	0.99	352					87.9	
13C-1,2,3,4,7,8,9-HpCDF	8.35e+06	0.44 y	45:01	0.77	412					103	
13C-OCDF	1.72e+07	0.93 y	50:01	1.17	557					69.6	
37Cl-2,3,7,8-TCDD	3.56e+06		27:20	0.73	106					66.1	
13C-1,2,3,4-TCDD	1.85e+07	0.81 y	26:45	-	9.71						
13C-1,2,3,4-TCDF	3.13e+07	0.88 y	25:30	-	8.70						
13C-1,2,3,7,8,9-HxCDD	1.06e+07	1.28 y	39:07	-	8.54						
Total Tetra-Dioxins	*		NotFnd	1.13	*		2.50	279	239	0.140	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	260	229	0.208	0
Total Hexa-Dioxins	*		NotFnd	1.46	*		2.50	321	284	0.292	0
Total Hepta-Dioxins	*		NotFnd	1.30	*		2.50	351	364	0.398	0
Total Tetra-Furans	*		NotFnd	1.15	*		2.50	388	366	0.114	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*		2.50	286	283	0.179	0
Total Penta-Furans	*		NotFnd	0.89	*		2.50	286	283	0.179	0.00
Total Hexa-Furans	*		NotFnd	1.00	*		2.50	285	287	0.214	0
Total Hepta-Furans	*		NotFnd	1.46	*		2.50	308	360	0.317	0

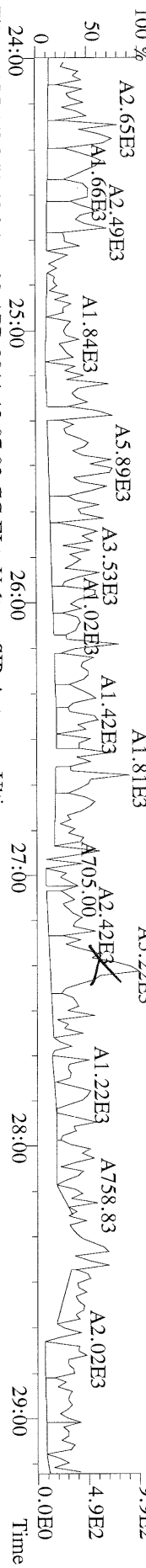
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Date: 4/21/11

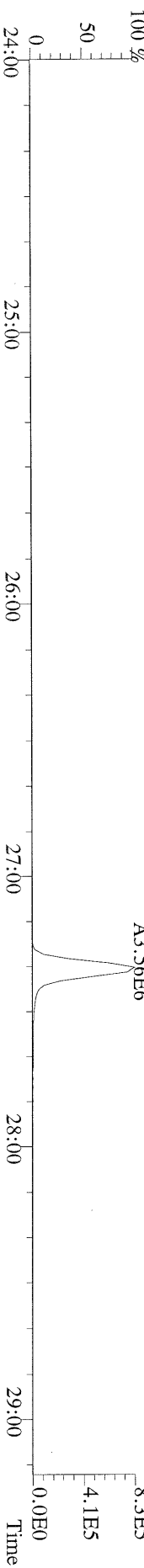
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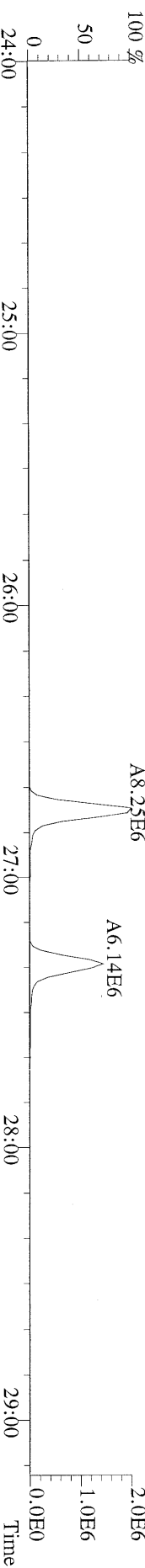
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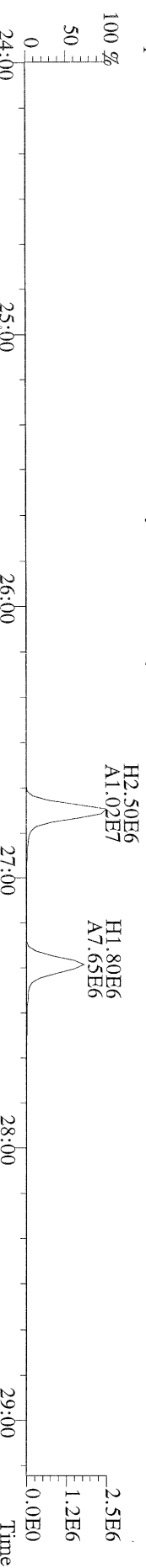
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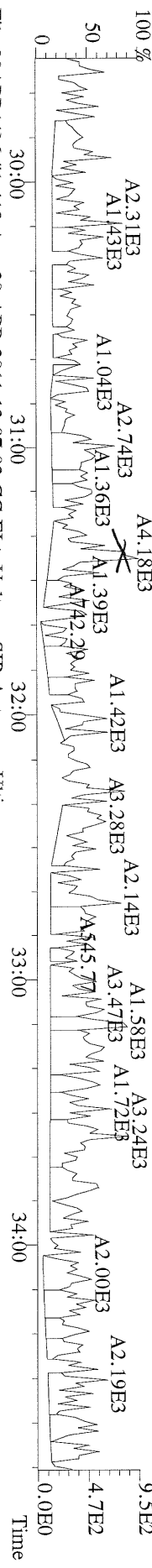
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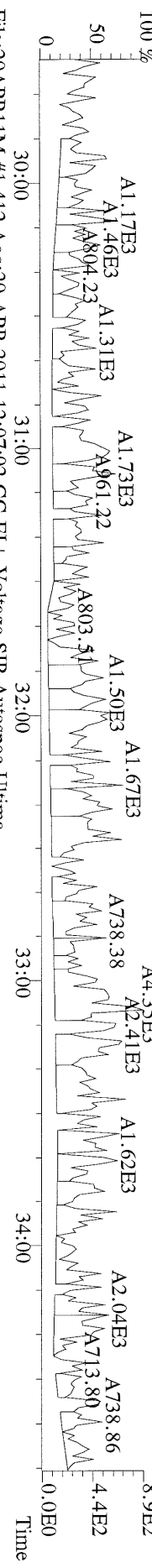
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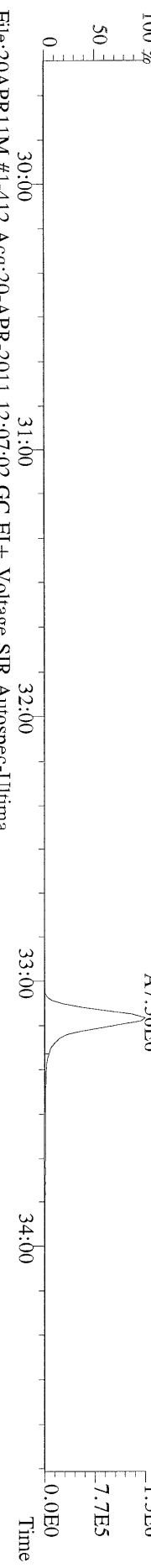
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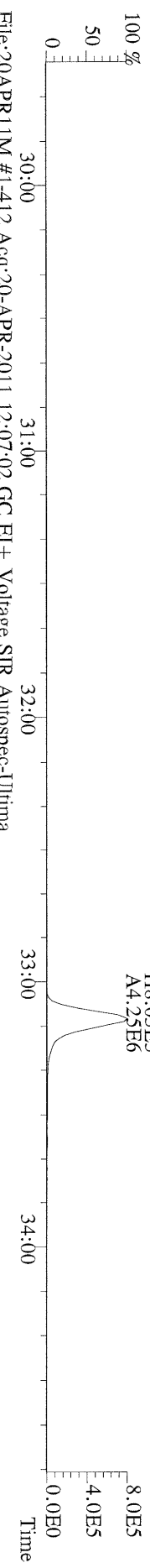
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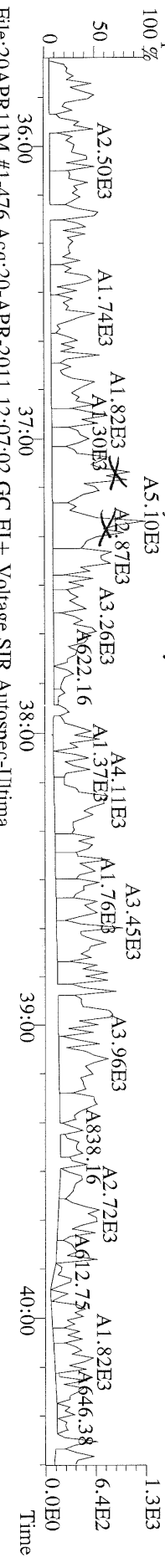
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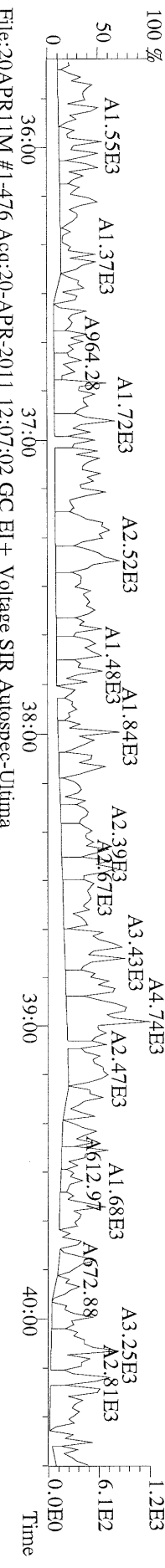
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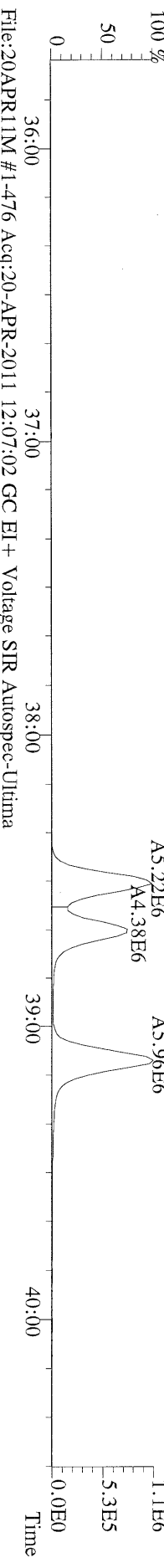
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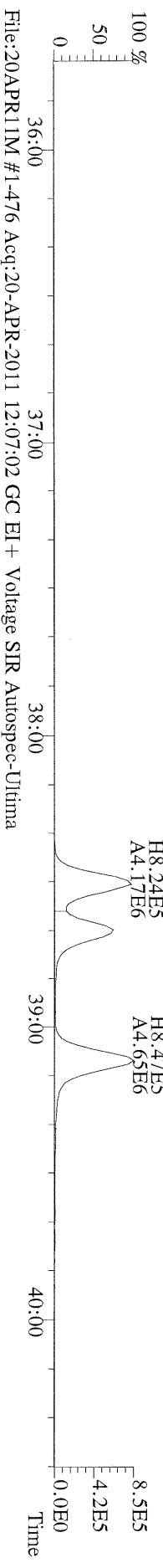
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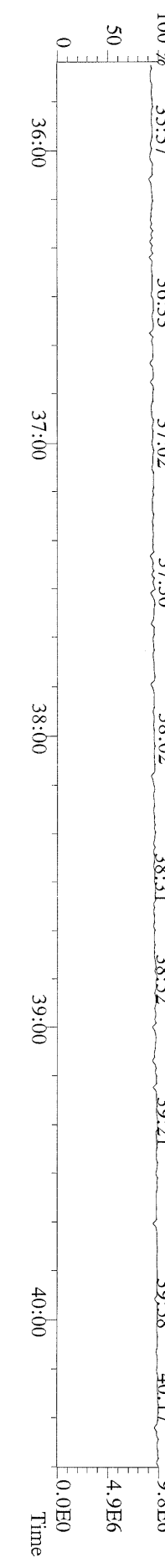
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 401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
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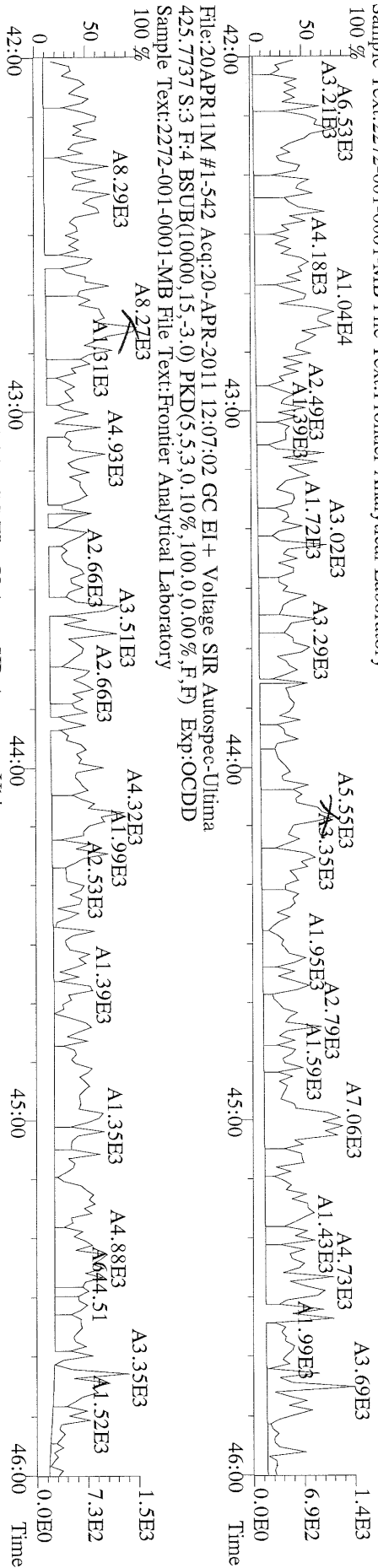
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 403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



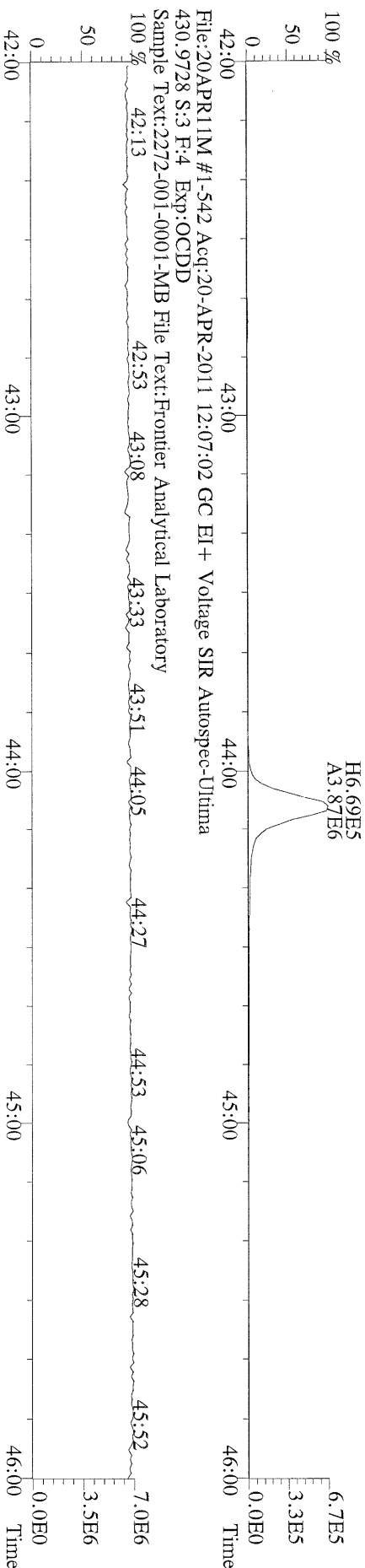
File:20APR11M #1-476 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Utima
 380.9760 S:3 F:3 Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



File:20APR11M #1-542 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



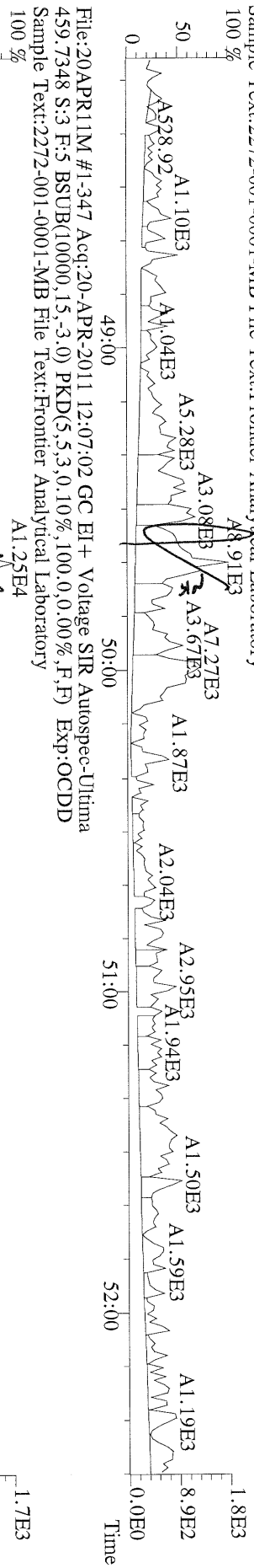
File:20APR11M #1-542 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



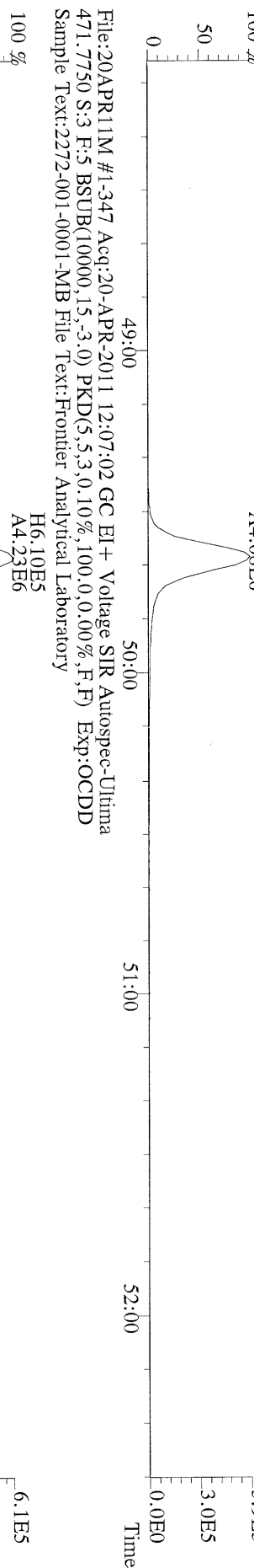
File:20APR11M #1-542 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 430.9728 S:3 F:4 Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



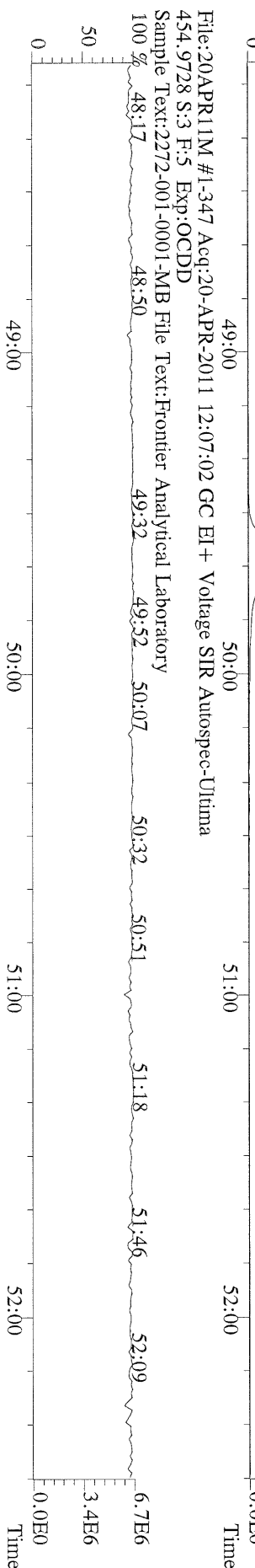
File:20APR11M #1-347 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



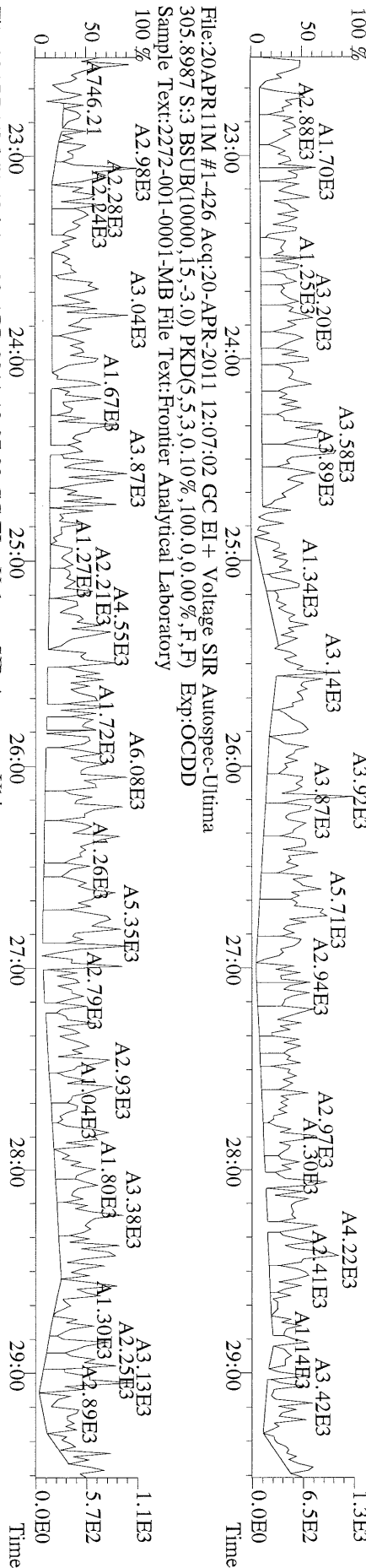
File:20APR11M #1-347 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Utima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



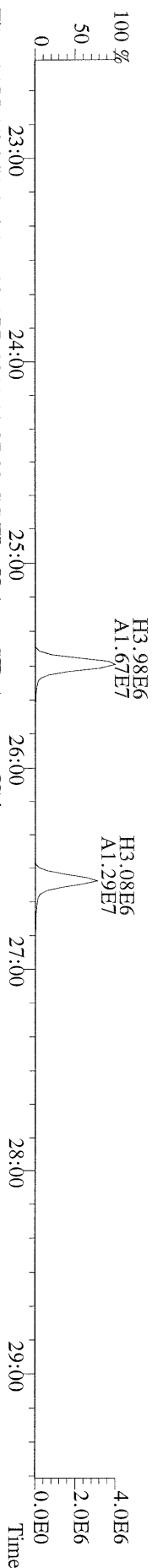
File:20APR11M #1-347 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Utima
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



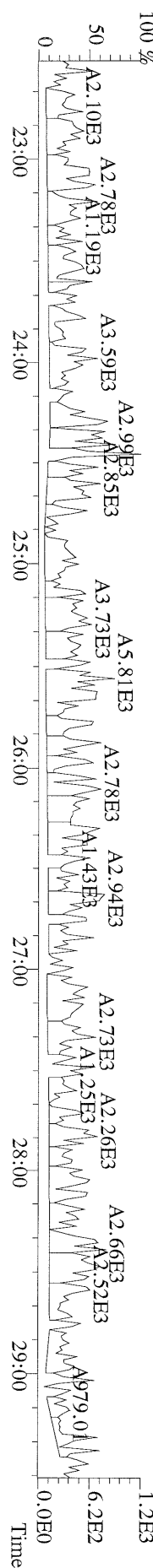
File:20APR11M #1-426 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



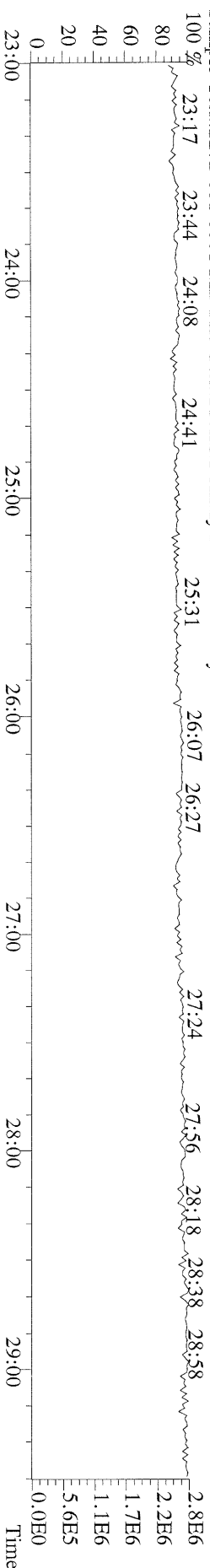
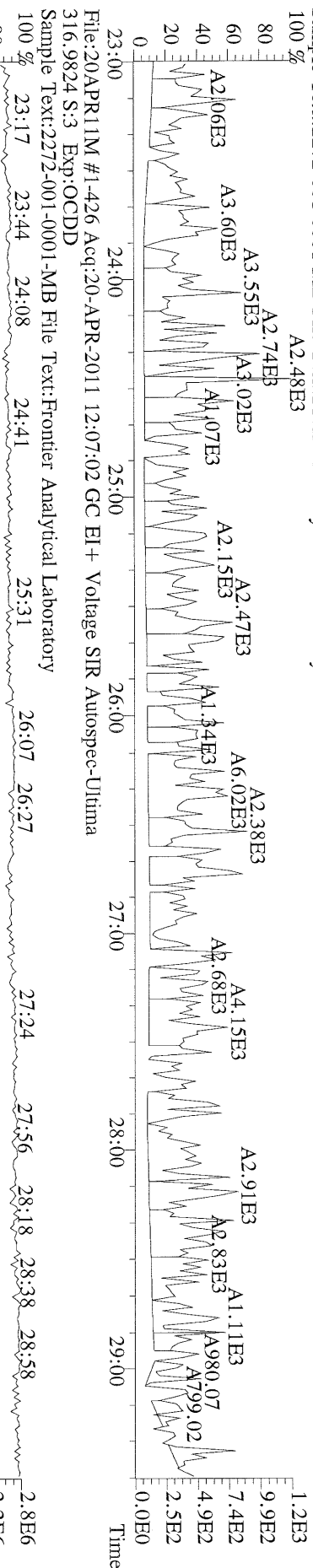
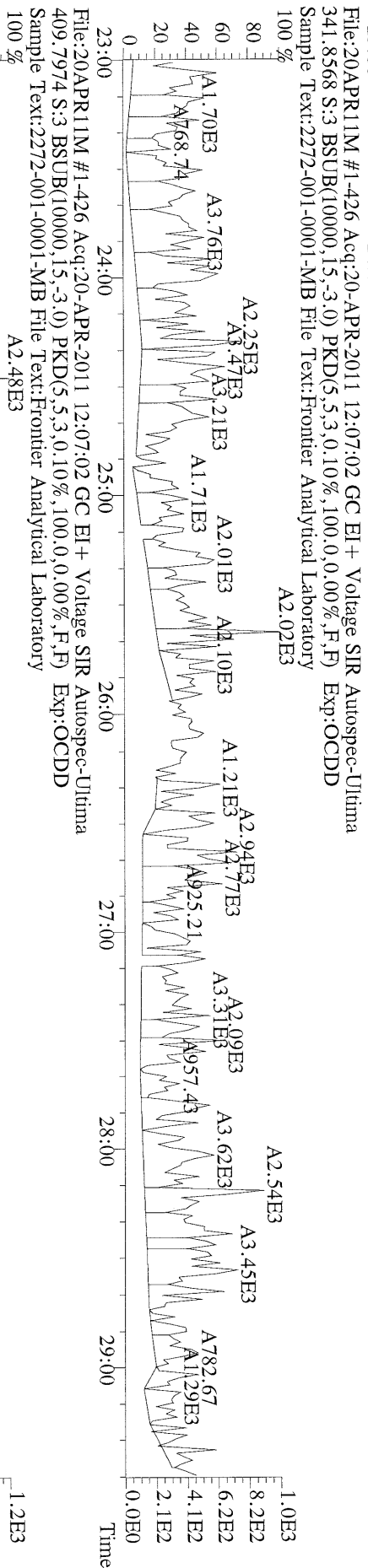
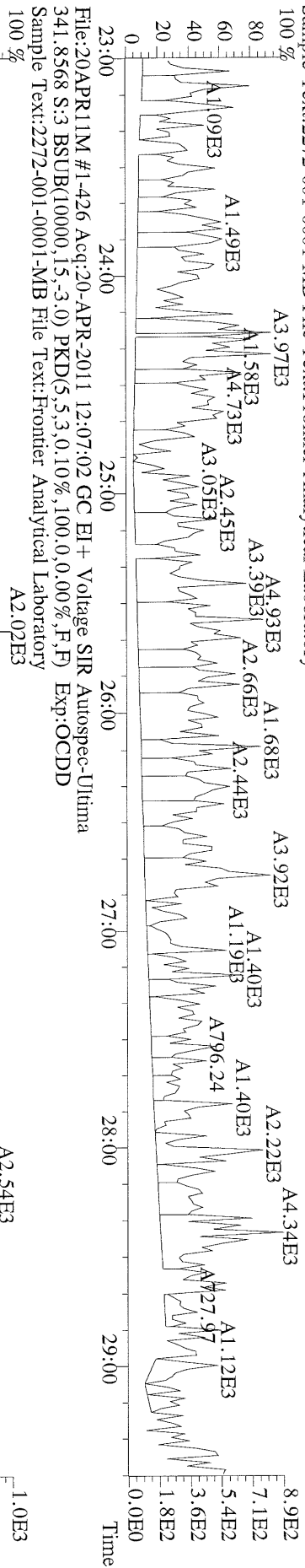
File:20APR11M #1-426 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



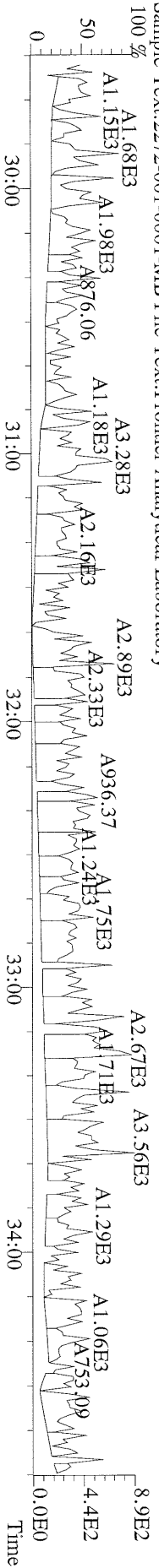
File:20APR11M #1-426 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



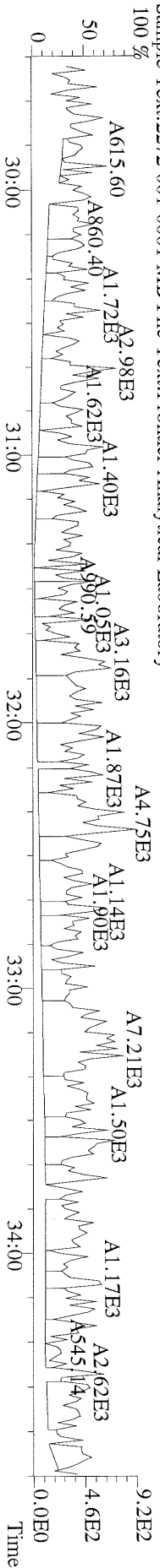
File:20APR11M #1-426 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



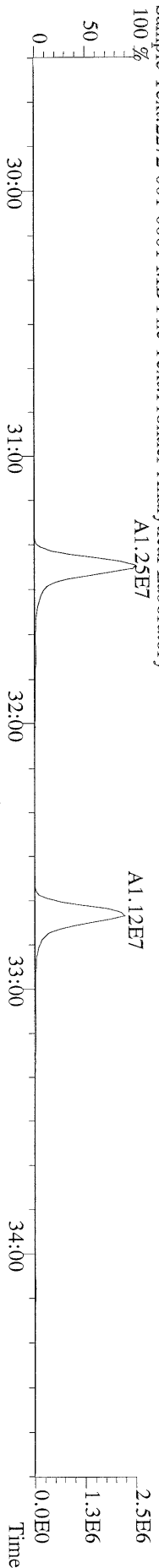
File:20APR11M #1-412 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



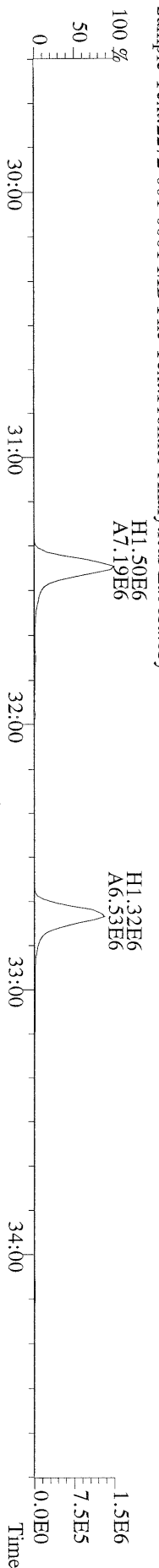
File:20APR11M #1-412 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



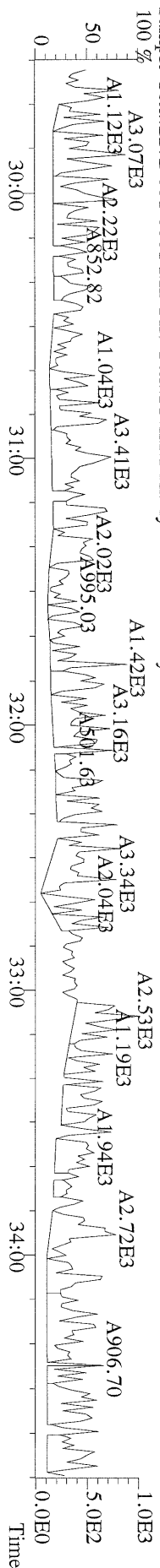
File:20APR11M #1-412 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



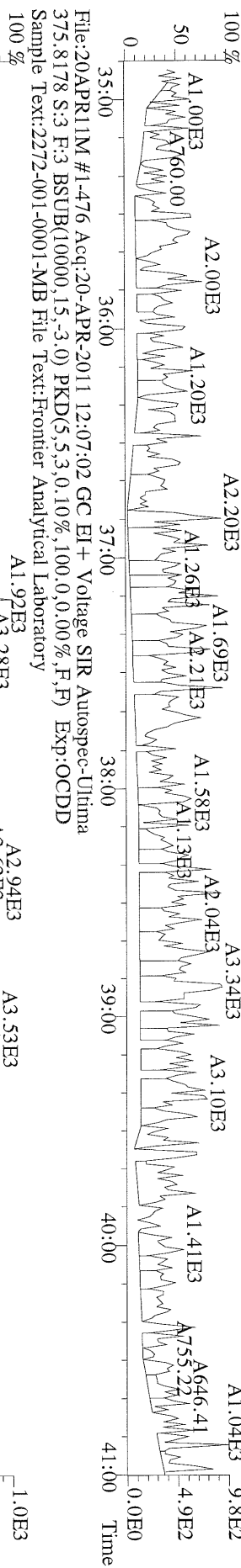
File:20APR11M #1-412 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



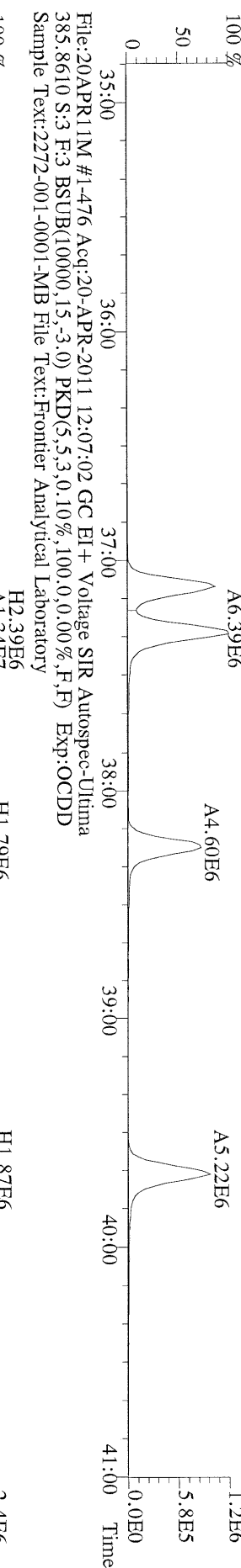
File:20APR11M #1-412 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



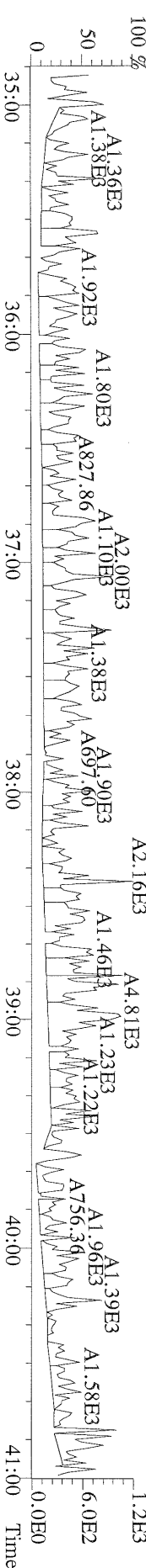
File:20APR11M #1-476 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



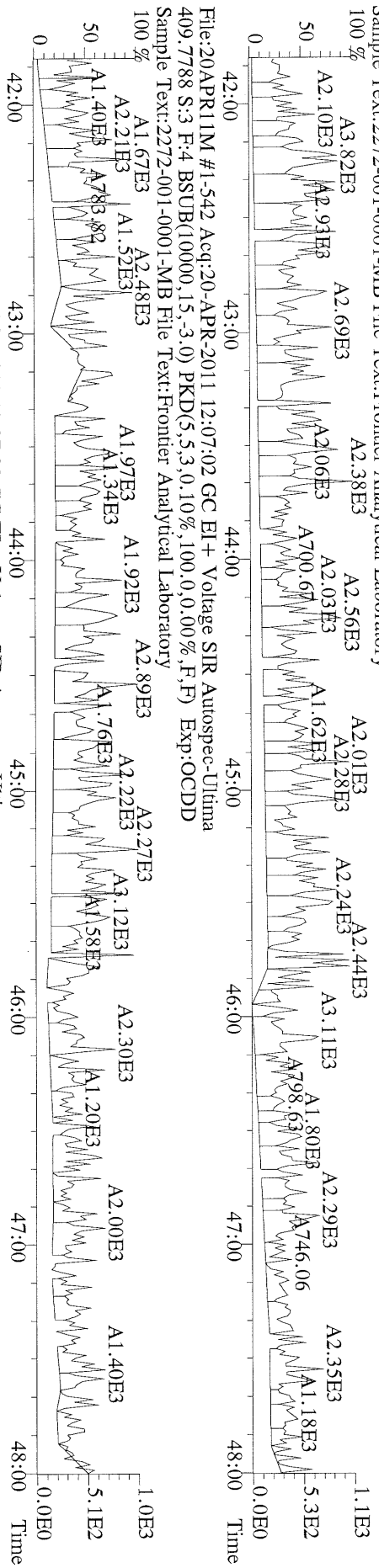
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383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



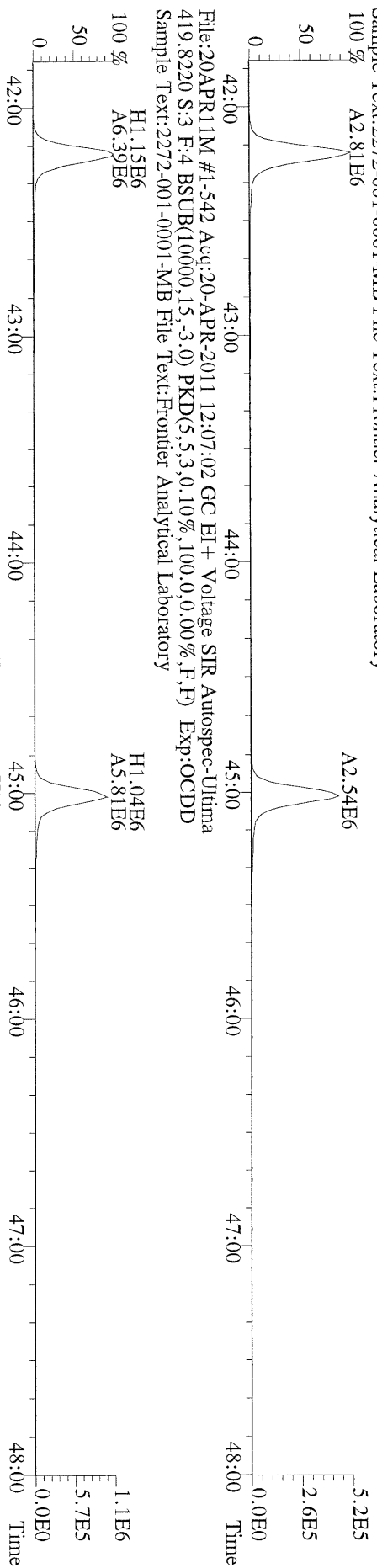
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445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



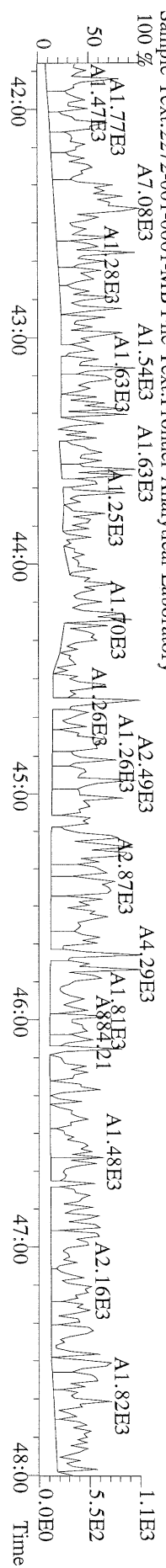
File:20APR11M #1-542 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



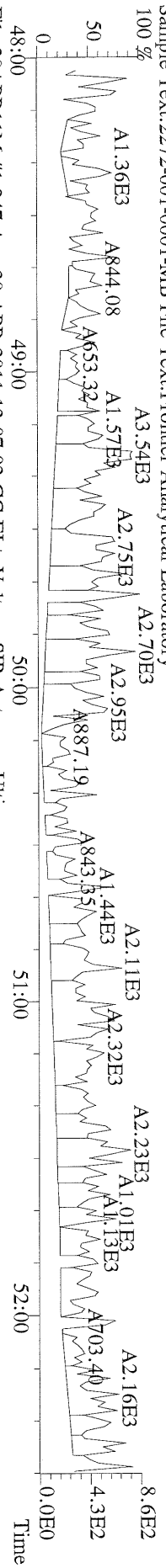
File:20APR11M #1-542 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



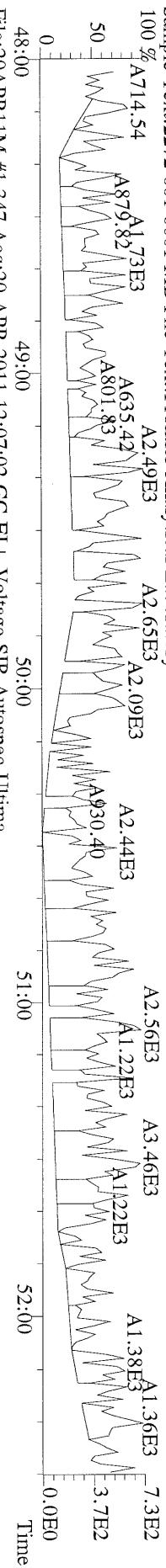
File:20APR11M #1-542 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



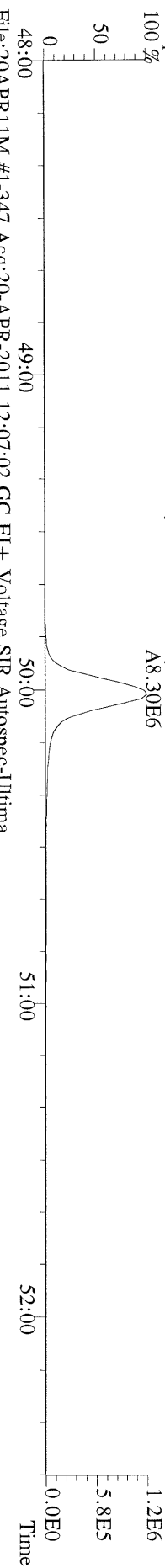
File:20APR11M #1-347 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



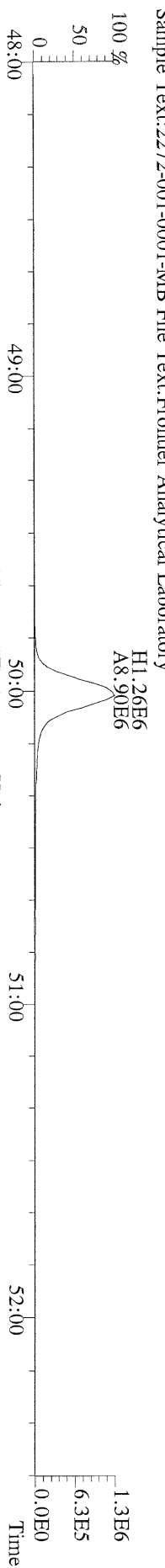
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 443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



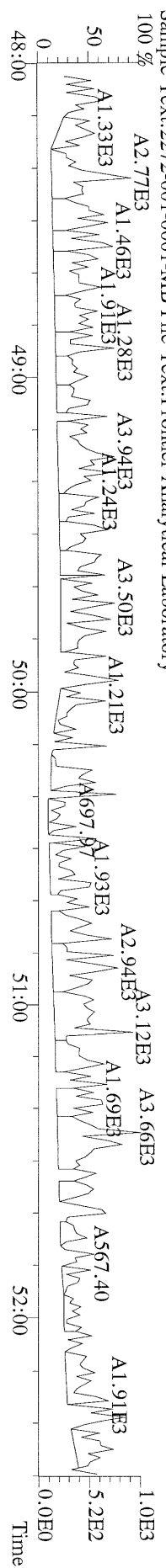
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 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:20-APR-2011 12:07:02 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-MB File Text:Frontier Analytical Laboratory



2272-001-0001-OPR

USEPA - ITD

FORM 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Matrix (aqueous/solid/leachate): Soil

OPR Data Filename: 20APR11M Sam:2

Ext. Date: 4/18/11 Shift: Day

Analysis Date: 20-APR-11 11:11:39

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	8.39	6.70 - 15.8 ✓
1,2,3,7,8-PeCDD	50	51.2	35.0 - 71.0 ✓
1,2,3,4,7,8-HxCDD	50	50.1	35.0 - 82.0 ✓
1,2,3,6,7,8-HxCDD	50	49.6	38.0 - 67.0 ✓
1,2,3,7,8,9-HxCDD	50	50.9	32.0 - 81.0 ✓
1,2,3,4,6,7,8-HpCDD	50	47.8	35.0 - 70.0 ✓
OCDD	100	96.2	78.0 - 144 ✓
2,3,7,8-TCDF	10	10.2	7.50 - 15.8 ✓
1,2,3,7,8-PeCDF	50	50.8	40.0 - 67.0 ✓
2,3,4,7,8-PeCDF	50	50.4	34.0 - 80.0 ✓
1,2,3,4,7,8-HxCDF	50	47.7	36.0 - 67.0 ✓
1,2,3,6,7,8-HxCDF	50	48.7	42.0 - 65.0 ✓
2,3,4,6,7,8-HxCDF	50	47.6	35.0 - 78.0 ✓
1,2,3,7,8,9-HxCDF	50	49.4	39.0 - 65.0 ✓
1,2,3,4,6,7,8-HpCDF	50	47.2	41.0 - 61.0 ✓
1,2,3,4,7,8,9-HpCDF	50	48.0	39.0 - 69.0 ✓
OCDF	100	89.4	63.0 - 170 ✓

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

Analyst:

Date: 4/21/11

USEPA - ITD

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Soil OPR Data Filename: 20APR11M Sam:2

Ext. Date: 4/18/11 Shift: Day Analysis Date: 20-APR-11 11:11:39

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	88.8	20.0 - 175 ✓
13C-1,2,3,7,8-PeCDD	100	77.8	21.0 - 227 ✓
13C-1,2,3,4,7,8-HxCDD	100	89.5	21.0 - 193 ✓
13C-1,2,3,6,7,8-HxCDD	100	94.9	25.0 - 163 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	111	26.0 - 166 ✓
13C-OCDD	200	174	26.0 - 397 ✓
13C-2,3,7,8-TCDF	100	93.8	22.0 - 152 ✓
13C-1,2,3,7,8-PeCDF	100	90.5	21.0 - 192 ✓
13C-2,3,4,7,8-PeCDF	100	90.7	13.0 - 328 ✓
13C-1,2,3,4,7,8-HxCDF	100	95.9	19.0 - 202 ✓
13C-1,2,3,6,7,8-HxCDF	100	95.2	21.0 - 159 ✓
13C-2,3,4,6,7,8-HxCDF	100	94.6	22.0 - 176 ✓
13C-1,2,3,7,8,9-HxCDF	100	96.8	17.0 - 205 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	105	21.0 - 158 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	127	20.0 - 186 ✓
13C-OCDF	200	186	26.0 - 397 ✓
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	31.2	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: 6 Date: 4/18/11

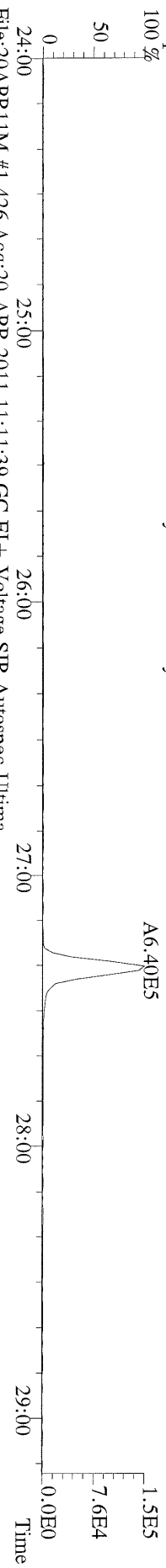
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 98.8 WHO 1998 Tox: 124 WHO 2005 Tox: 113

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	1.49e+06	0.76 y	27:20	1.13	8.39		2.50	-	*	
1,2,3,7,8-PeCDD	7.00e+06	1.61 y	33:10	1.02	51.2		2.50	-	*	
1,2,3,4,7,8-HxCDD	8.10e+06	1.32 y	38:31	1.45	50.1		2.50	-	*	
1,2,3,6,7,8-HxCDD	6.72e+06	1.33 y	38:41	1.45	49.6		2.50	-	*	
1,2,3,7,8,9-HxCDD	7.67e+06	1.32 y	39:08	1.47	50.9		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	5.98e+06	0.93 y	44:07	1.30	47.8		2.50	-	*	
OCDD	7.71e+06	0.92 y	49:40	1.45	96.2		2.50	-	*	
2,3,7,8-TCDF	3.13e+06	0.68 y	26:35	1.15	10.2		2.50	-	*	
1,2,3,7,8-PeCDF	9.82e+06	1.68 y	31:26	0.89	50.8		2.50	-	*	
2,3,4,7,8-PeCDF	9.53e+06	1.66 y	32:44	0.89	50.4		2.50	-	*	
1,2,3,4,7,8-HxCDF	8.92e+06	1.26 y	37:08	1.01	47.7		2.50	-	*	
1,2,3,6,7,8-HxCDF	9.93e+06	1.27 y	37:20	0.89	48.7		2.50	-	*	
2,3,4,6,7,8-HxCDF	8.95e+06	1.26 y	38:16	1.02	47.6		2.50	-	*	
1,2,3,7,8,9-HxCDF	1.10e+07	1.27 y	39:42	1.10	49.4		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	7.59e+06	1.04 y	42:14	1.48	47.2		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	6.99e+06	1.03 y	45:02	1.43	48.0		2.50	-	*	
OCDF	8.57e+06	0.89 y	50:02	0.84	89.4		2.50	-	*	
										Rec
13C-2,3,7,8-TCDD	1.56e+07	0.80 y	27:19	1.03	88.8					88.8
13C-1,2,3,7,8-PeCDD	1.34e+07	1.76 y	33:08	1.01	77.8					77.8
13C-1,2,3,4,7,8-HxCDD	1.12e+07	1.28 y	38:31	1.19	89.5					89.5
13C-1,2,3,6,7,8-HxCDD	9.32e+06	1.29 y	38:40	0.94	94.9					94.9
13C-1,2,3,4,6,7,8-HpCDD	9.62e+06	1.06 y	44:06	0.83	111					111
13C-OCDD	1.11e+07	0.98 y	49:38	0.61	174					86.8
13C-2,3,7,8-TCDF	2.67e+07	0.87 y	26:34	0.98	93.8					93.8
13C-1,2,3,7,8-PeCDF	2.18e+07	1.73 y	31:24	0.83	90.5					90.5
13C-2,3,4,7,8-PeCDF	2.12e+07	1.73 y	32:43	0.80	90.7					90.7
13C-1,2,3,4,7,8-HxCDF	1.85e+07	0.48 y	37:07	1.84	95.9					95.9
13C-1,2,3,6,7,8-HxCDF	2.29e+07	0.47 y	37:19	2.29	95.2					95.2
13C-2,3,4,6,7,8-HxCDF	1.85e+07	0.48 y	38:14	1.86	94.6					94.6
13C-1,2,3,7,8,9-HxCDF	2.01e+07	0.47 y	39:40	1.98	96.8					96.8
13C-1,2,3,4,6,7,8-HpCDF	1.09e+07	0.45 y	42:12	0.99	105					105
13C-1,2,3,4,7,8,9-HpCDF	1.02e+07	0.45 y	45:00	0.77	127					127
13C-OCDF	2.27e+07	0.95 y	50:00	1.17	186					93.0
37Cl-2,3,7,8-TCDD	3.89e+06		27:20	0.73	31.2					78.1
13C-1,2,3,4-TCDD	1.71e+07	0.81 y	26:46	-	45.0					
13C-1,2,3,4-TCDF	2.91e+07	0.88 y	25:30	-	40.4					
13C-1,2,3,7,8,9-HxCDD	1.05e+07	1.28 y	39:07	-	42.3					
Total Tetra-Dioxins	1.59e+06		22:53	1.13	9.00		2.50	-	*	28
Total Penta-Dioxins	7.03e+06		33:10	1.02	51.5		2.50	-	*	5
Total Hexa-Dioxins	2.25e+07		38:31	1.46	151		2.50	-	*	5
Total Hepta-Dioxins	6.19e+06		42:01	1.30	49.5		2.50	-	*	23
Total Tetra-Furans	3.27e+06		22:54	1.15	10.7		2.50	-	*	23
1st Fn. Tot Penta-Furans	1.54e+05		22:56	0.89	0.805		2.50	-	*	PeCDF 35
Total Penta-Furans	1.97e+07		30:11	0.89	103		2.50	-	*	104 13
Total Hexa-Furans	3.89e+07		35:28	1.00	194		2.50	-	*	12
Total Hepta-Furans	1.46e+07		42:14	1.46	95.4		2.50	-	*	6

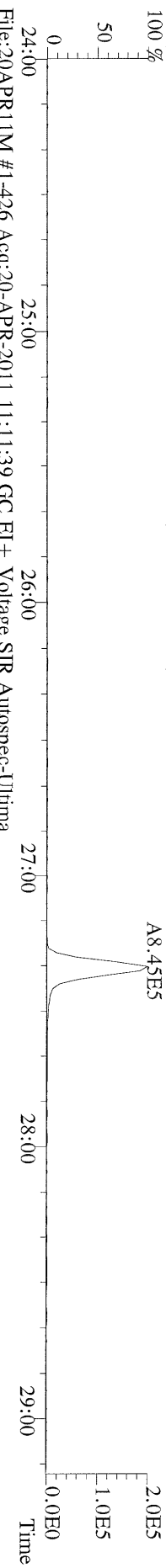
Analyst: J

Date: 4/21/11

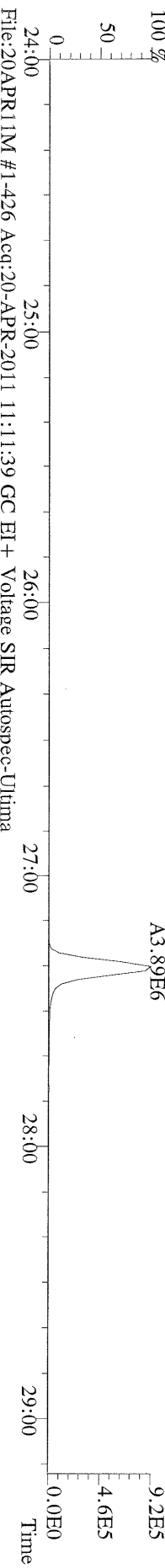
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100 %



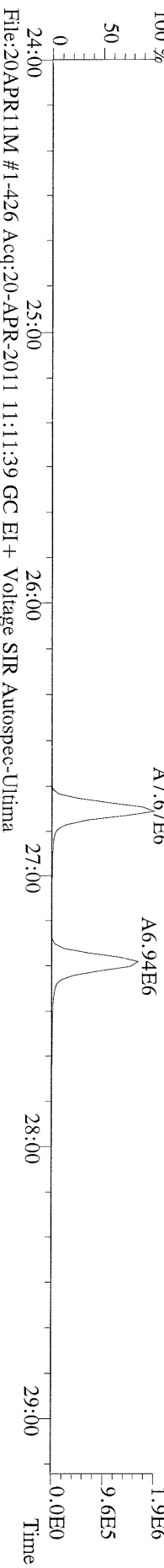
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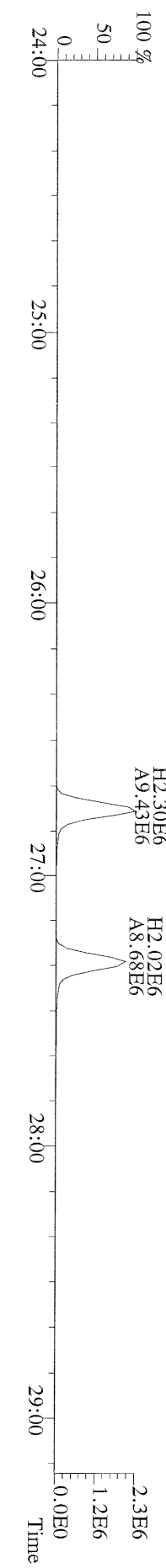
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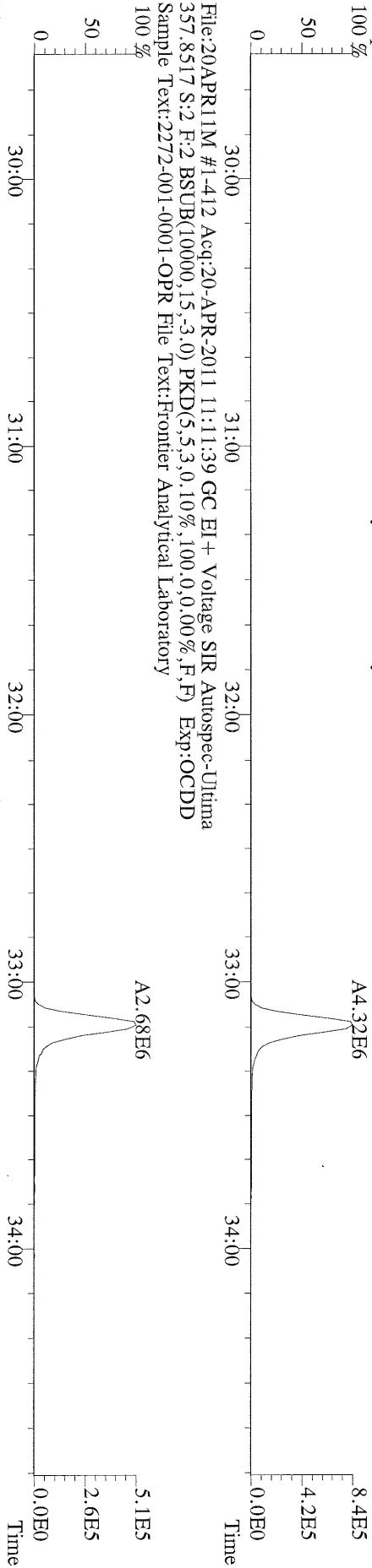
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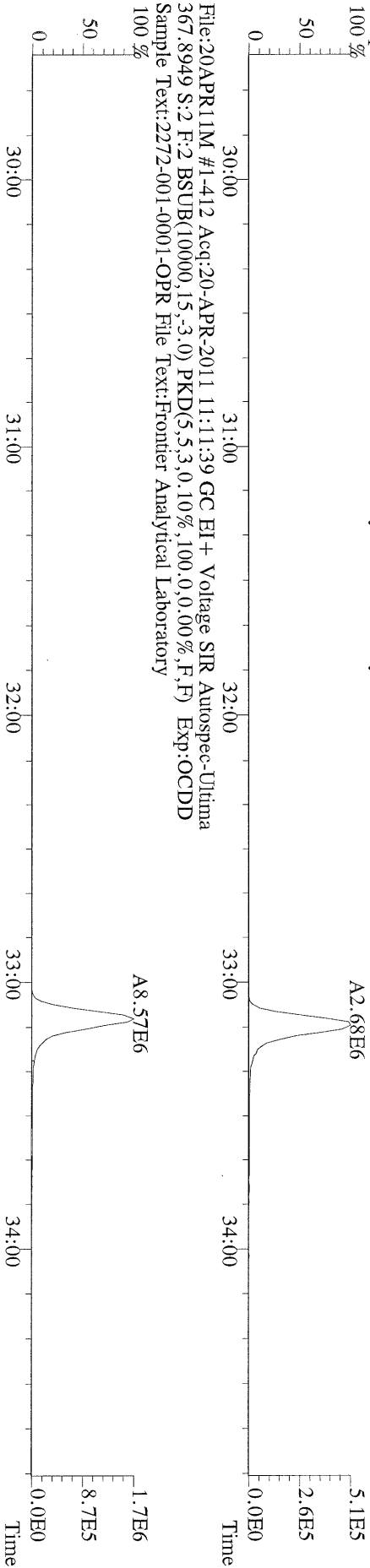
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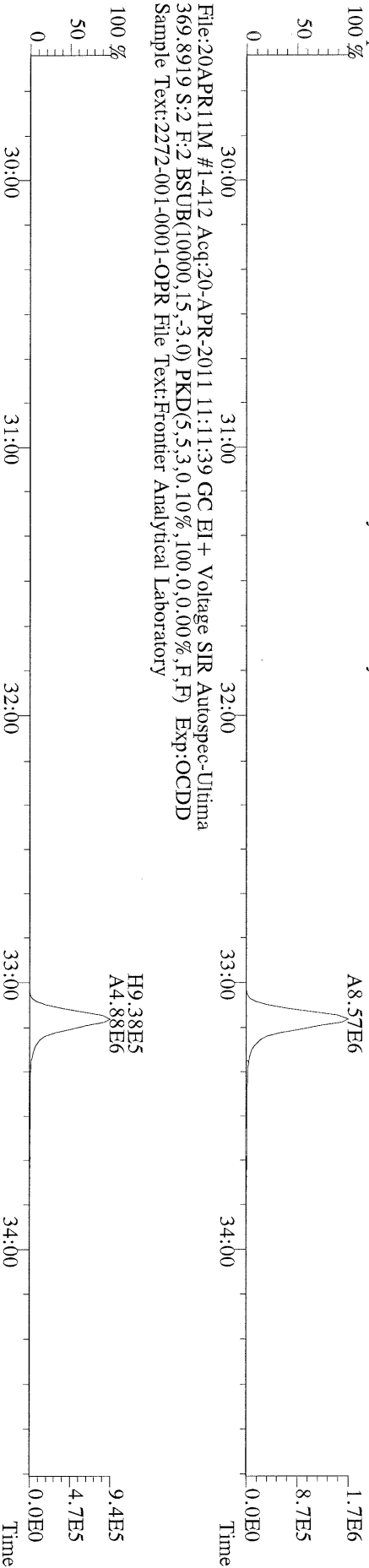
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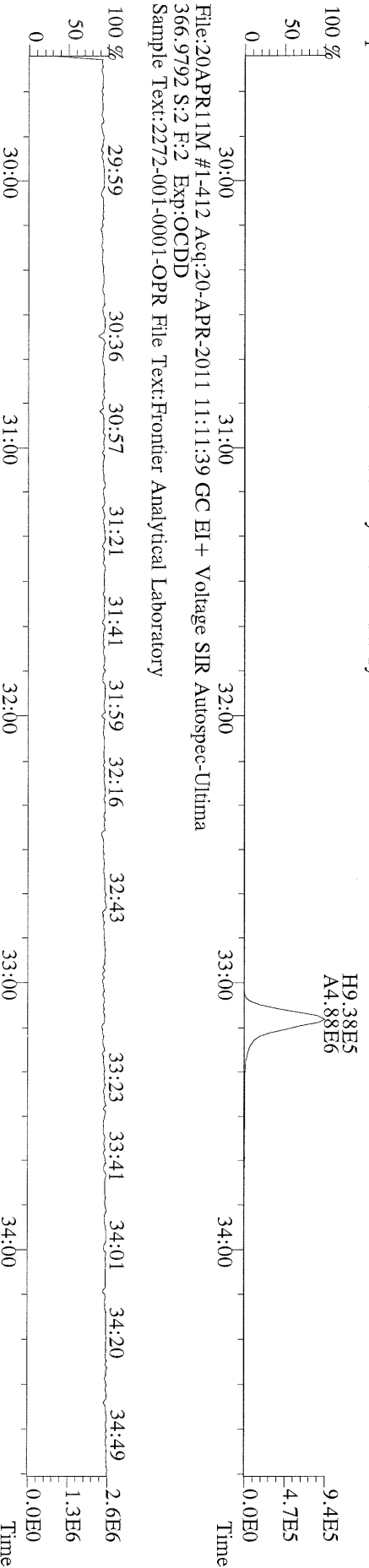
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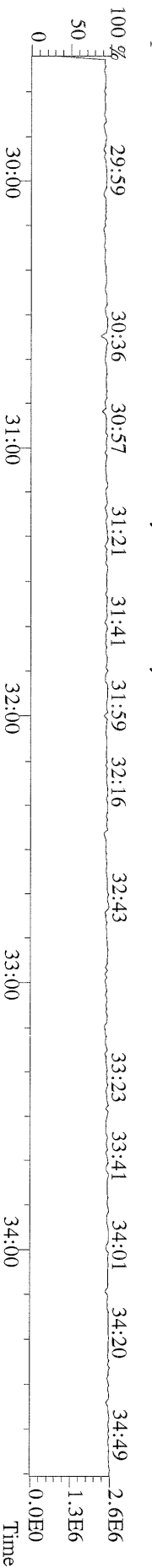
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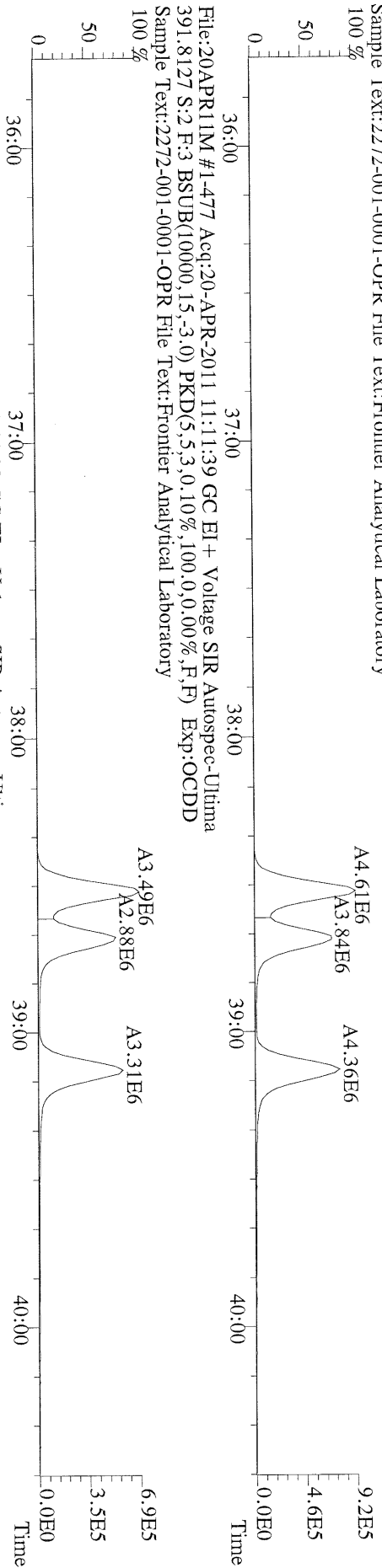
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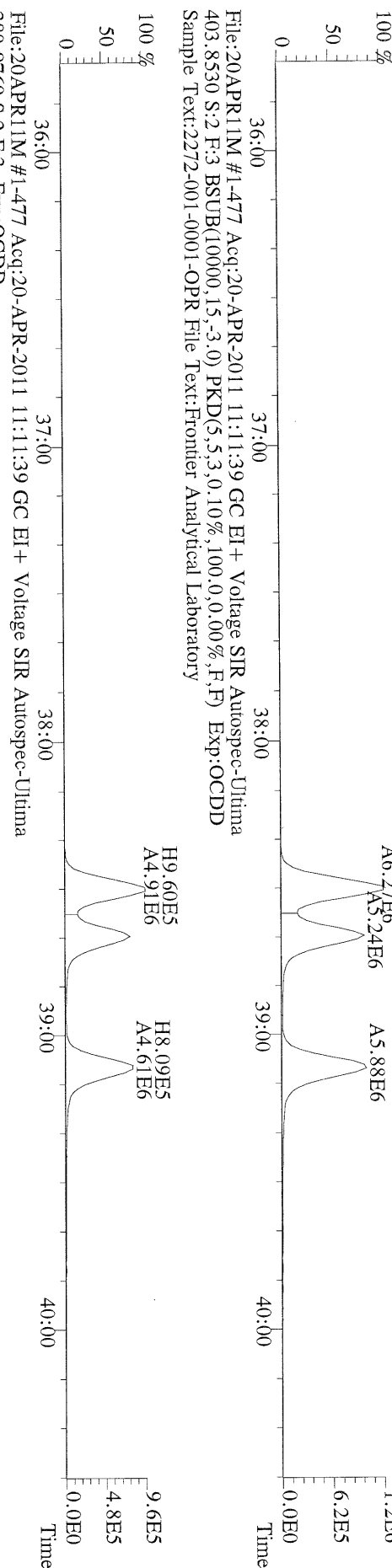
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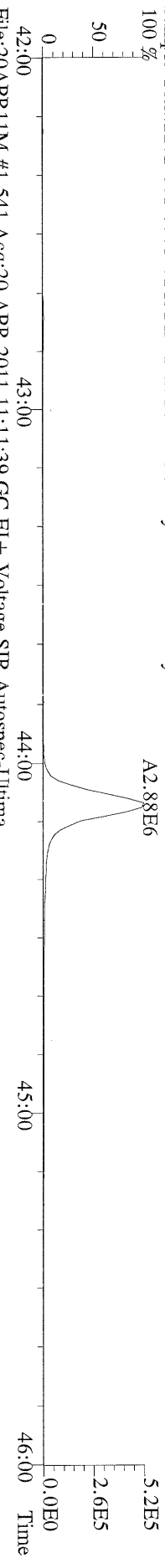
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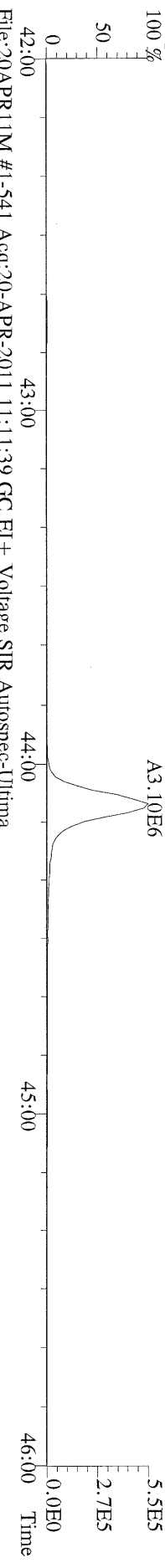
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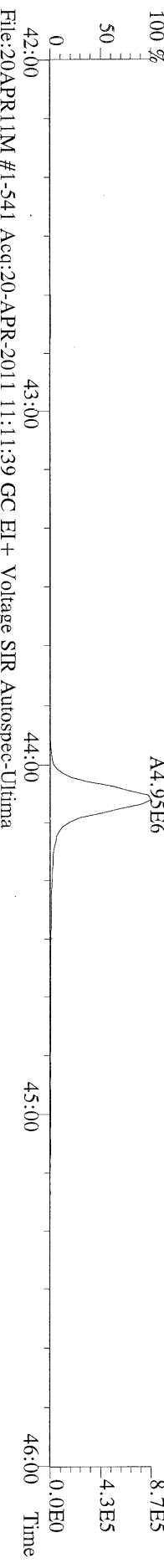
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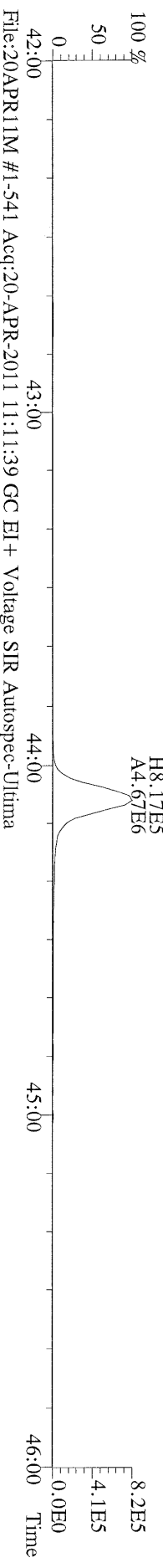
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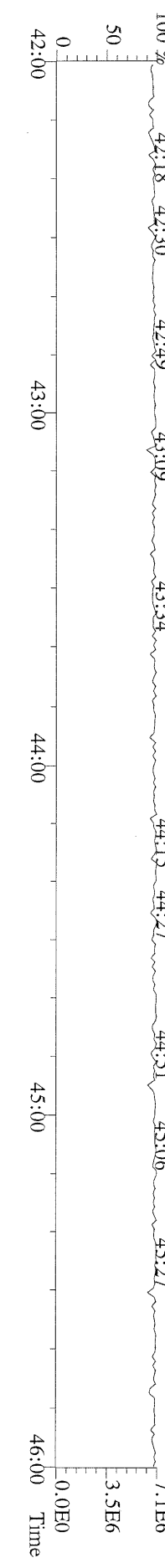
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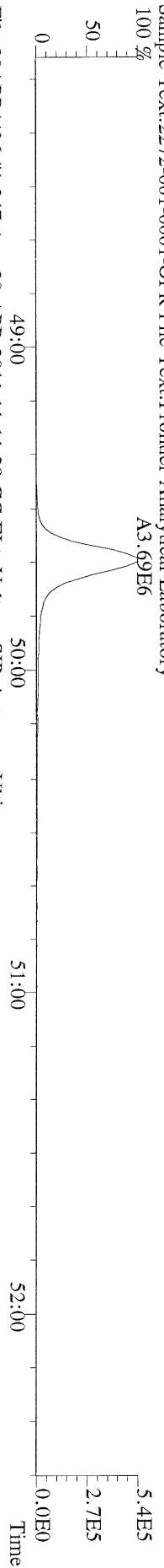
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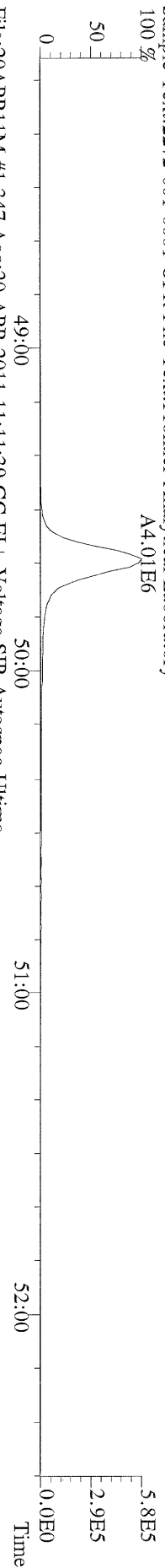
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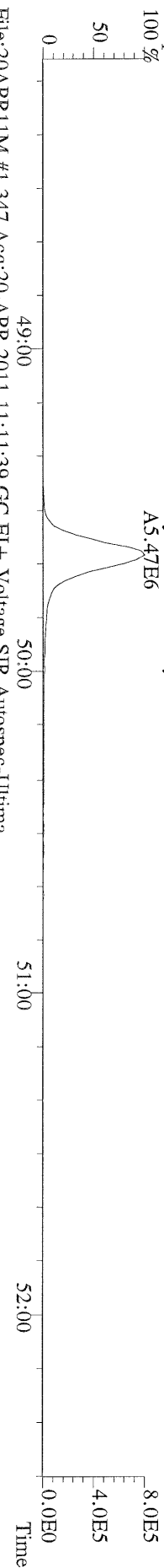
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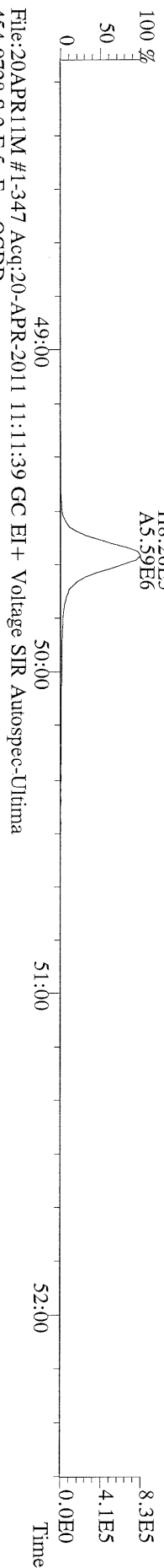
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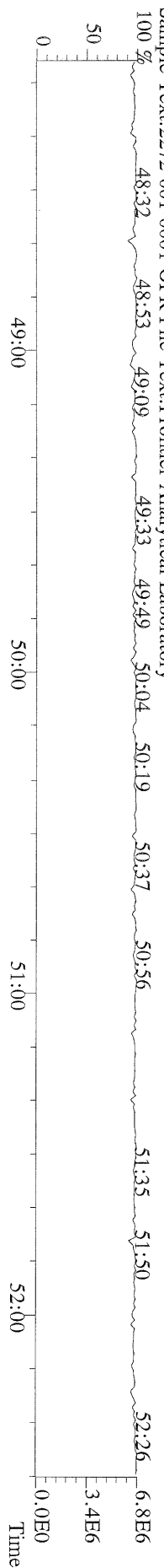
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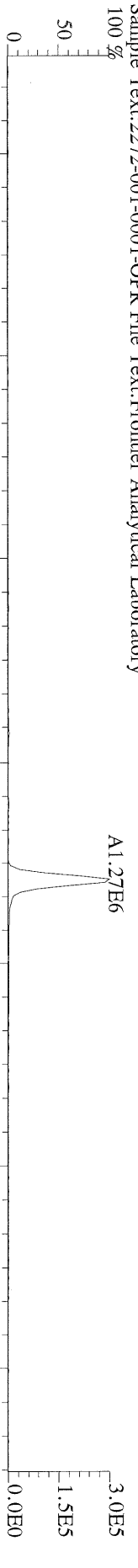
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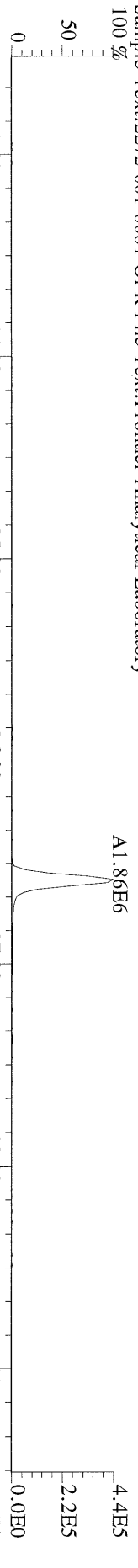
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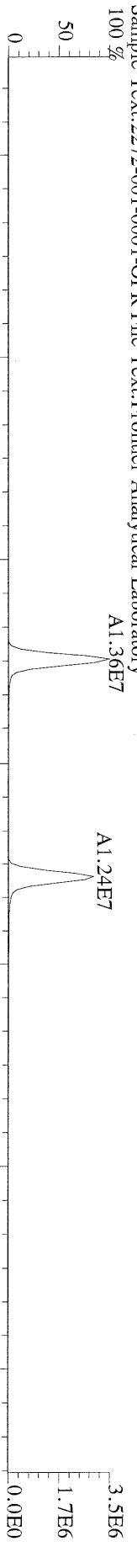
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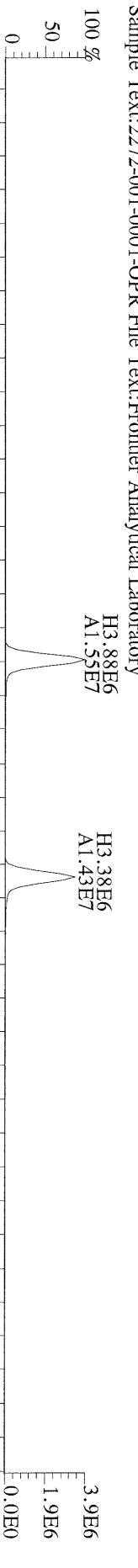
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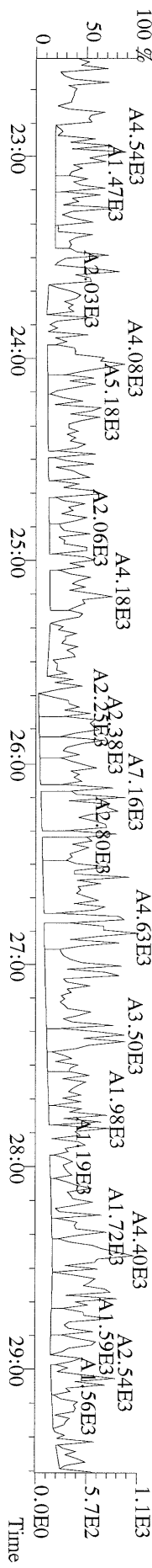
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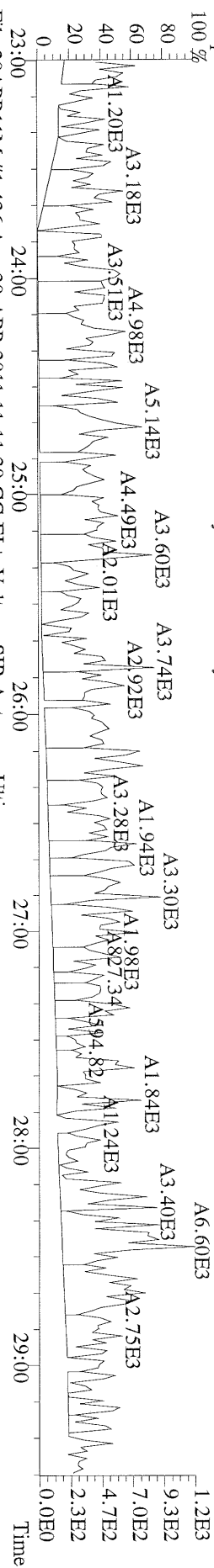
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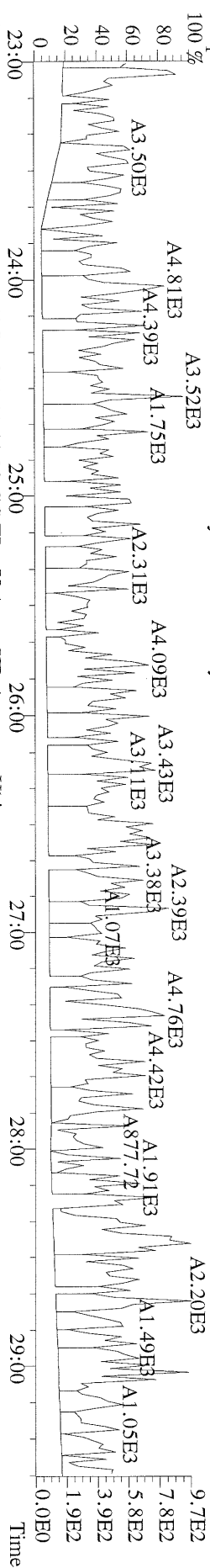
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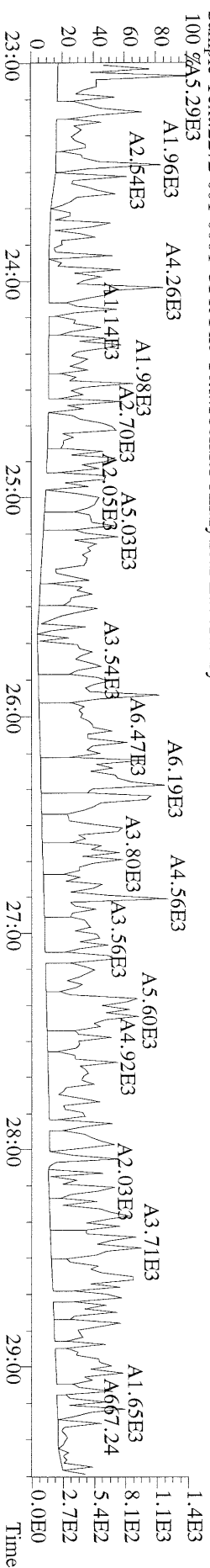
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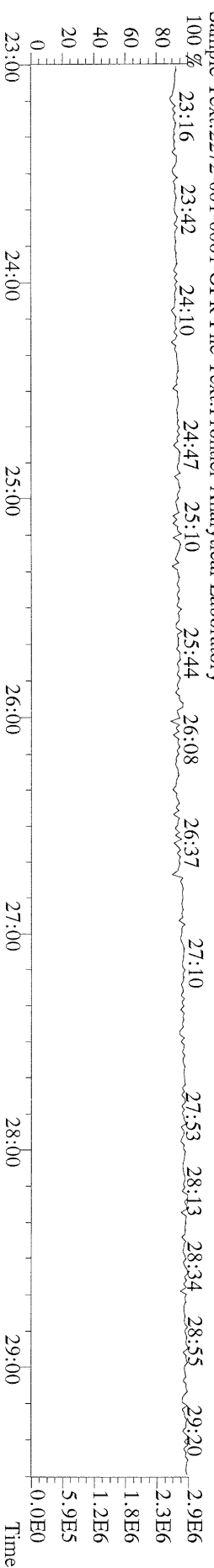
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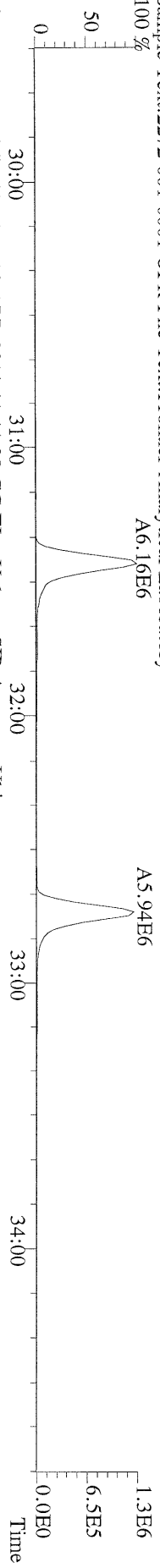
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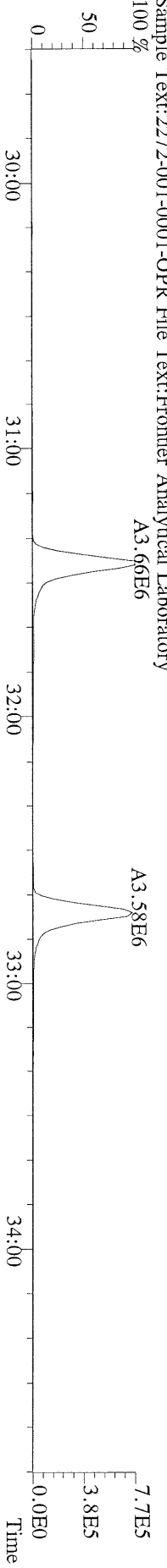
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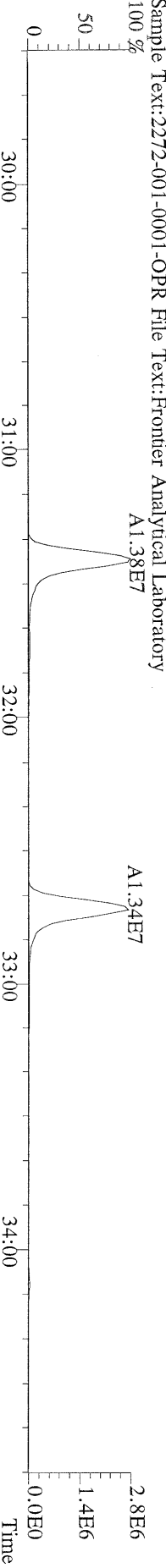
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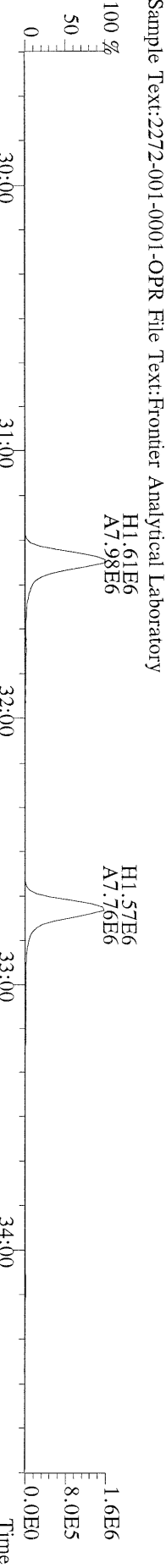
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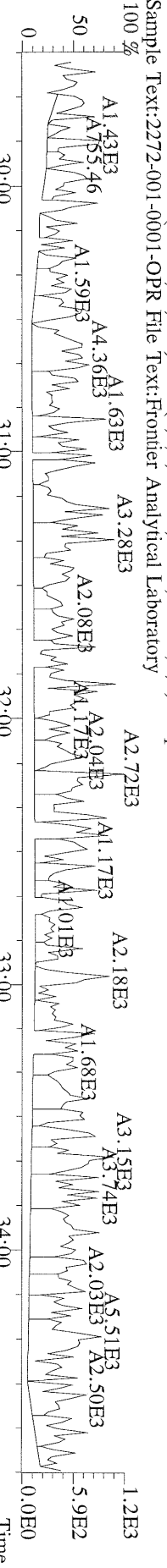
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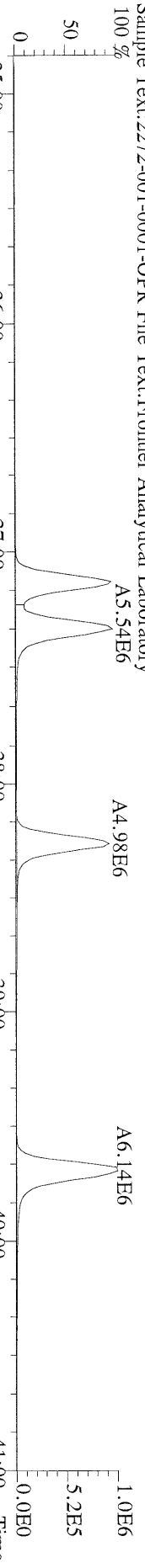
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353,8970 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



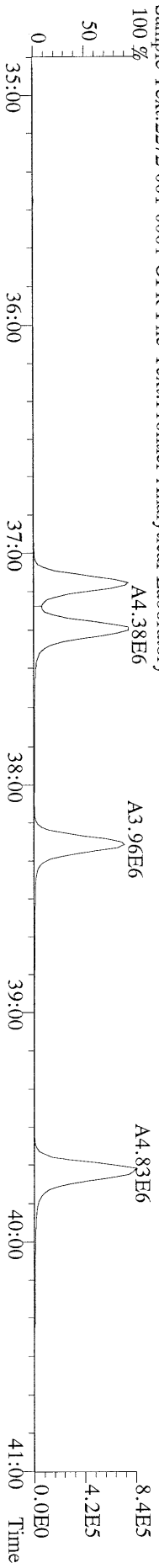
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409,7974 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



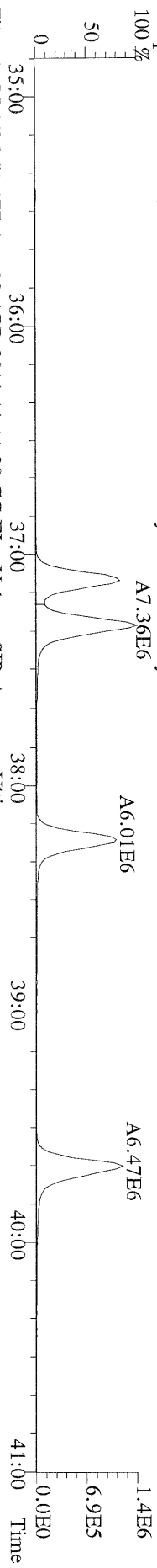
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 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



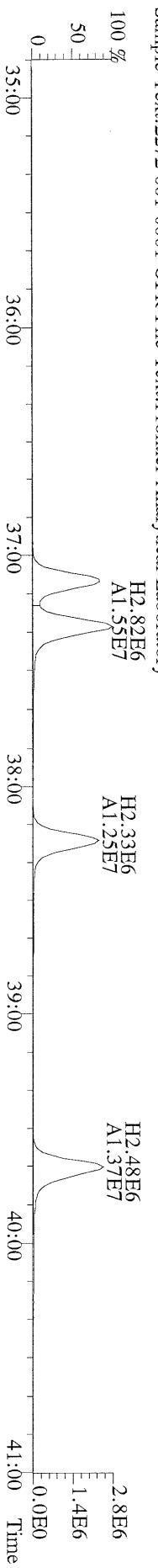
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 375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



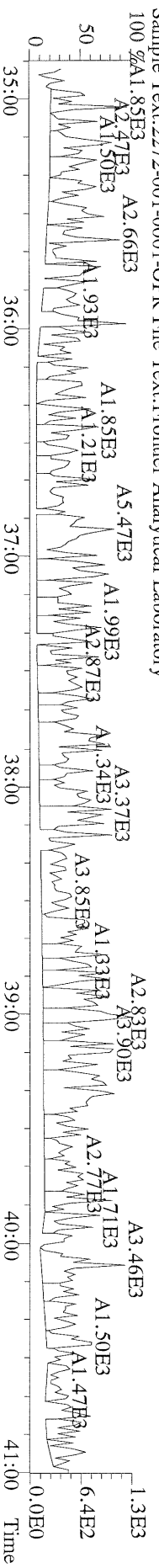
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 383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



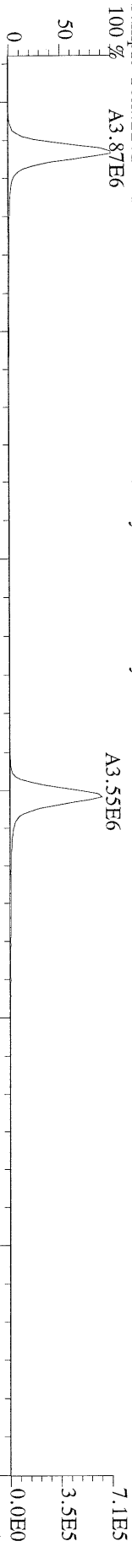
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 385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



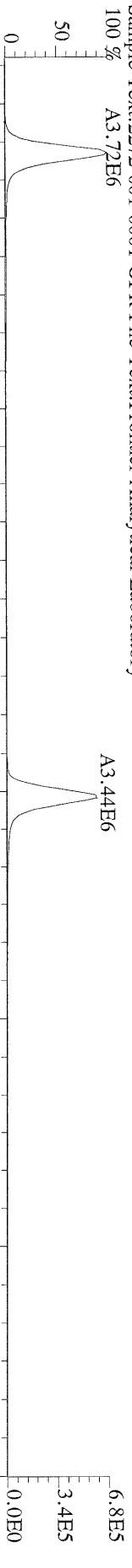
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 445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



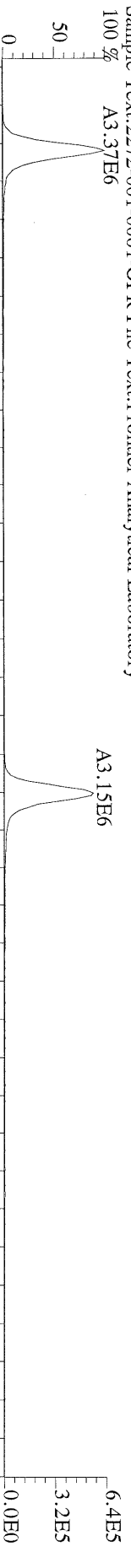
File:20APR11M #1-541 Acq:20-APR-2011 11:11:39 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



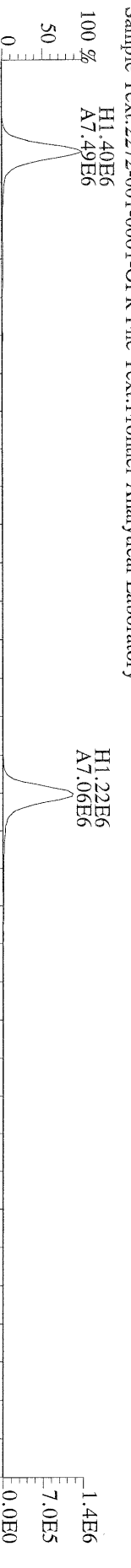
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409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



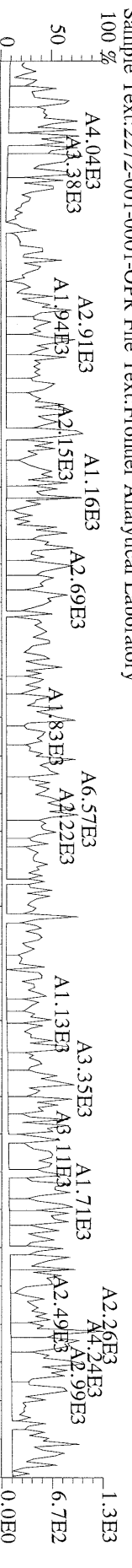
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Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



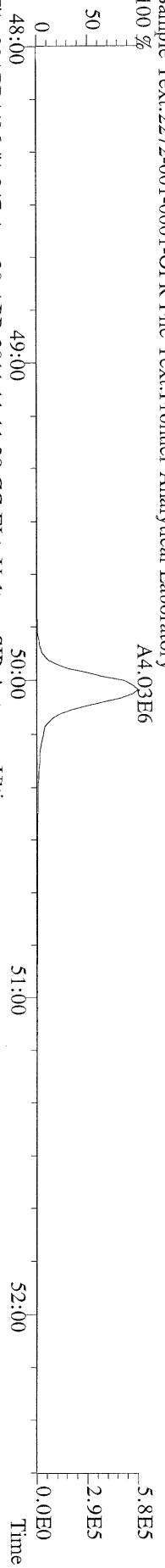
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419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



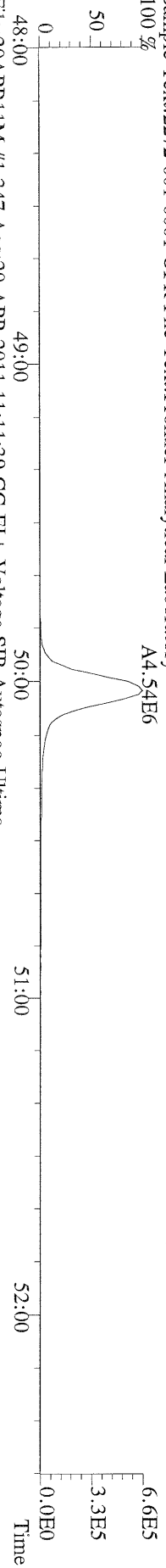
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479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



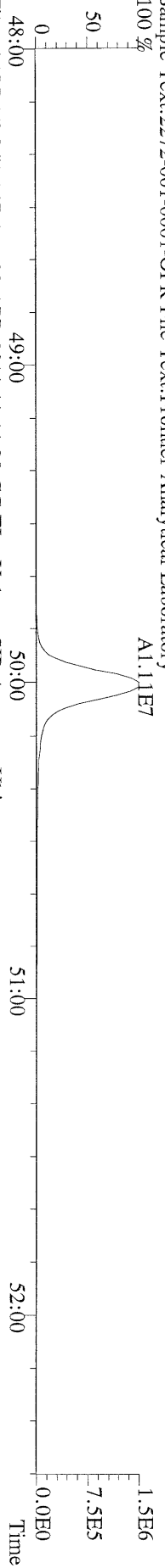
File:20APR11M #1-347 Acq:20-APR-2011 11:11:39 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



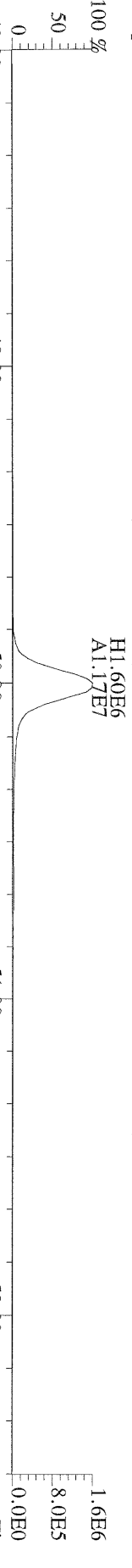
File:20APR11M #1-347 Acq:20-APR-2011 11:11:39 GC EI+ Voltage SIR Autospec-Ultima
 443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



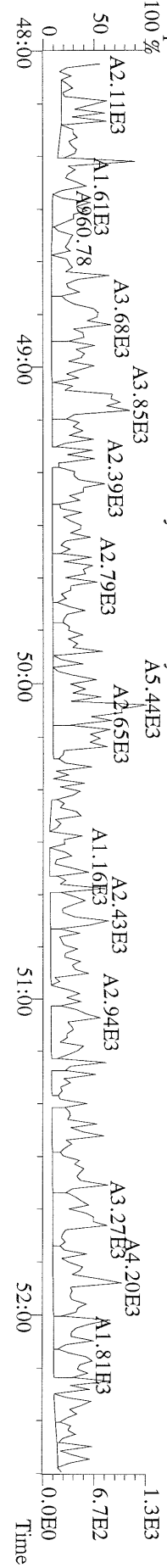
File:20APR11M #1-347 Acq:20-APR-2011 11:11:39 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



File:20APR11M #1-347 Acq:20-APR-2011 11:11:39 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:20-APR-2011 11:11:39 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2272-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



FAL ID: 2265-001-0001-MB
 Client ID: Method Blank
 Results: 2265

Filename: 08APR11M Sam:3
 GC Column: DB5 Amount: 1.000

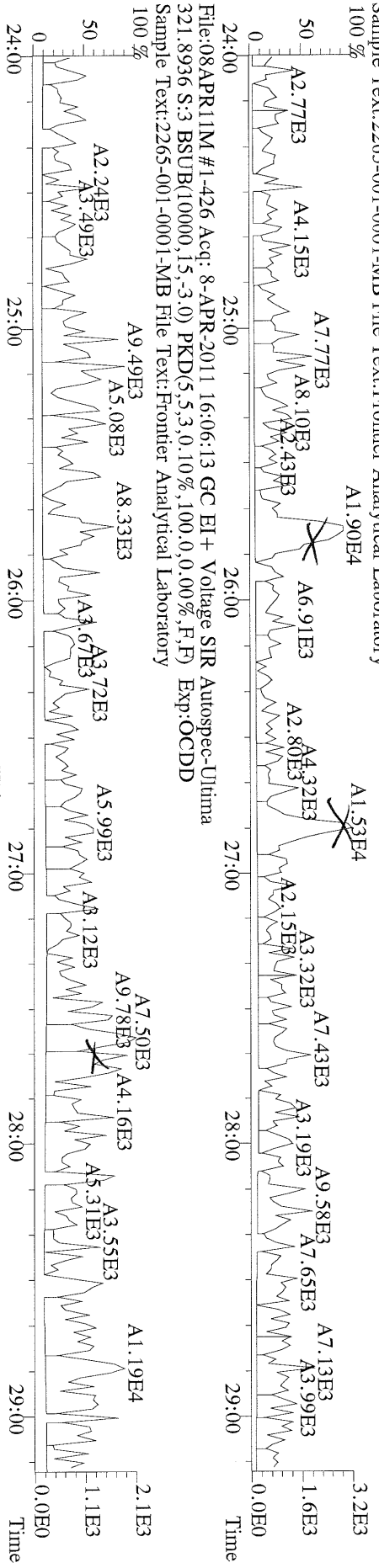
Acquired: 8-APR-11 16:06:13
 ConCal: ST040811M1
 NATO 1989 Tox: 0.00
 WHO 1998 Tox: 0.00

ICal: PCDDFAL3-3-7-11
 EndCal: ST040811M2
 WHO 2005 Tox: 0.00

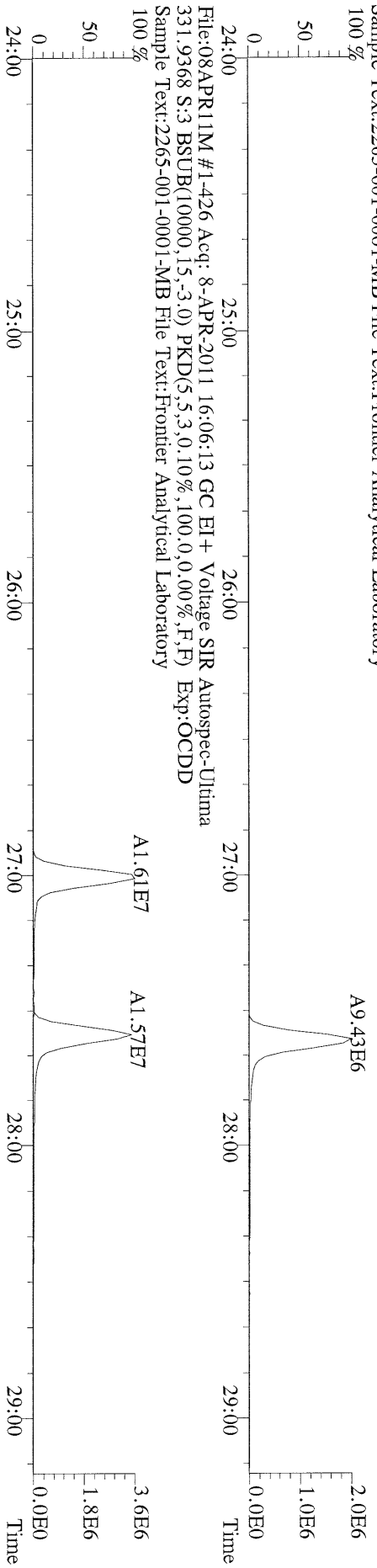
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*		2.50	704	687	0.787	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	587	605	0.974	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	1060	642	1.11	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	1060	642	1.38	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	1060	642	1.22	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.30	*		2.50	579	514	1.15	
OCDD	*	* n	NotFnd	1.45	*		2.50	675	619	2.42	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	850	773	0.538	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	512	650	0.693	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	512	650	0.682	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	702	549	0.797	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	702	549	0.737	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	702	549	0.755	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	702	549	0.749	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*		2.50	712	596	1.02	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	712	596	1.45	
OCDF	*	* n	NotFnd	0.84	*		2.50	458	459	1.53	
13C-2,3,7,8-TCDD	3.52e+07	0.81	y 27:35	1.03	1890					94.3	
13C-1,2,3,7,8-PeCDD	3.29e+07	1.78	y 33:27	1.01	1800					89.9	
13C-1,2,3,4,7,8-HxCDD	2.65e+07	1.28	y 38:50	1.19	1660					83.1	
13C-1,2,3,6,7,8-HxCDD	2.49e+07	1.27	y 38:60	0.94	1990					99.3	
13C-1,2,3,4,6,7,8-HpCDD	2.37e+07	1.07	y 44:27	0.83	2140					107	
13C-OCDD	3.01e+07	0.91	y 50:05	0.61	3690					92.3	
13C-2,3,7,8-TCDF	5.99e+07	0.85	y 26:50	0.98	2090					104	
13C-1,2,3,7,8-PeCDF	5.13e+07	1.68	y 31:43	0.83	2120					106	
13C-2,3,4,7,8-PeCDF	5.06e+07	1.66	y 33:02	0.80	2150					108	
13C-1,2,3,4,7,8-HxCDF	4.25e+07	0.48	y 37:26	1.84	1720					86.1	
13C-1,2,3,6,7,8-HxCDF	5.80e+07	0.47	y 37:38	2.29	1890					94.3	
13C-2,3,4,6,7,8-HxCDF	4.64e+07	0.48	y 38:35	1.86	1860					92.9	
13C-1,2,3,7,8,9-HxCDF	4.96e+07	0.48	y 40:02	1.98	1870					93.4	
13C-1,2,3,4,6,7,8-HpCDF	2.69e+07	0.46	y 42:33	0.99	2030					102	
13C-1,2,3,4,7,8,9-HpCDF	2.20e+07	0.46	y 45:22	0.77	2140					107	
13C-OCDF	5.91e+07	0.92	y 50:28	1.17	3790					94.6	
37Cl-2,3,7,8-TCDD	9.43e+06		27:36	0.73	713					89.2	
13C-1,2,3,4-TCDD	3.63e+07	0.80	y 27:01	-	95.4					-	
13C-1,2,3,4-TCDF	5.85e+07	0.87	y 25:45	-	81.3					-	
13C-1,2,3,7,8,9-HxCDD	2.68e+07	1.27	y 39:27	-	108					-	
Total Tetra-Dioxins	*		NotFnd	1.13	*		2.50	704	687	0.787	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	587	605	0.974	0
Total Hexa-Dioxins	*		NotFnd	1.46	*		2.50	1060	642	1.38	0
Total Hepta-Dioxins	*		NotFnd	1.30	*		2.50	579	514	1.15	0
Total Tetra-Furans	*		NotFnd	1.15	*		2.50	850	773	0.538	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*		2.50	512	650	0.693/	0
Total Penta-Furans	*		NotFnd	0.89	*		2.50	512	650	0.693/	0
Total Hexa-Furans	*		NotFnd	1.00	*		2.50	702	549	0.797	0
Total Hepta-Furans	*		NotFnd	1.46	*		2.50	712	596	1.45	0

Analyst: [Signature] Date: 4/11/11

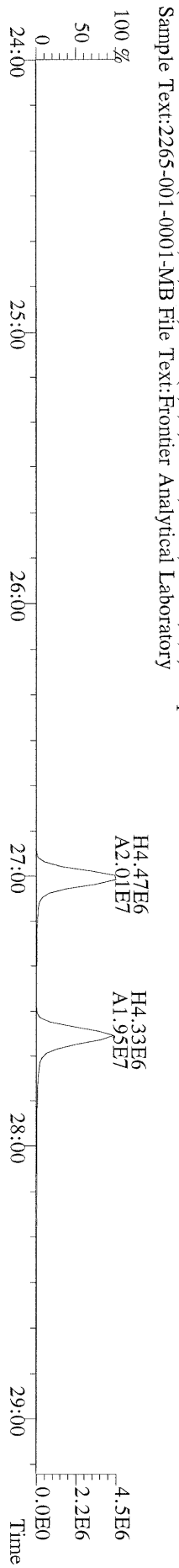
File:08APR11M #1-426 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
 319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



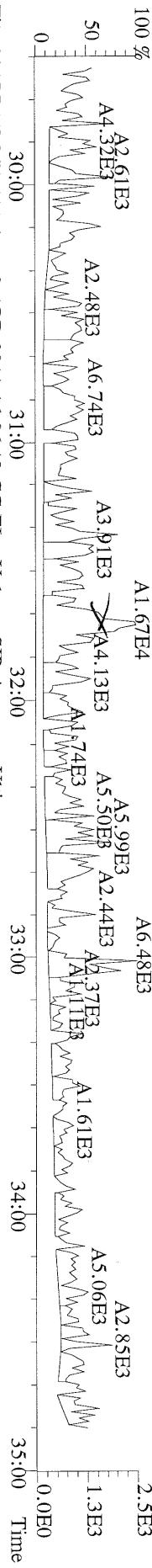
File:08APR11M #1-426 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
 327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



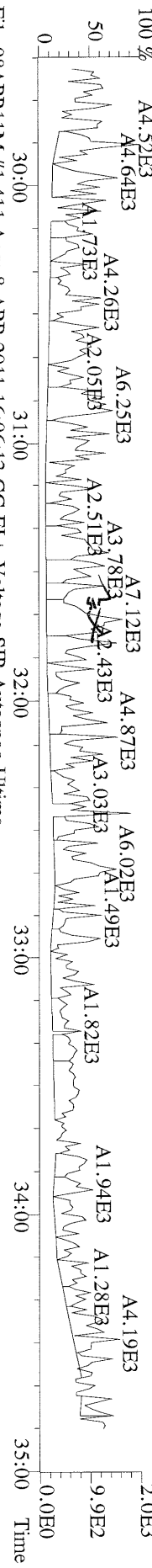
File:08APR11M #1-426 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
 333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



File:08APR11M #1-411 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



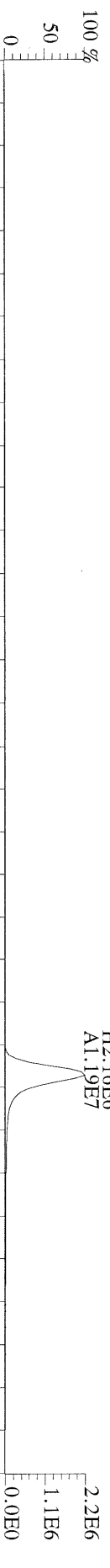
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 357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



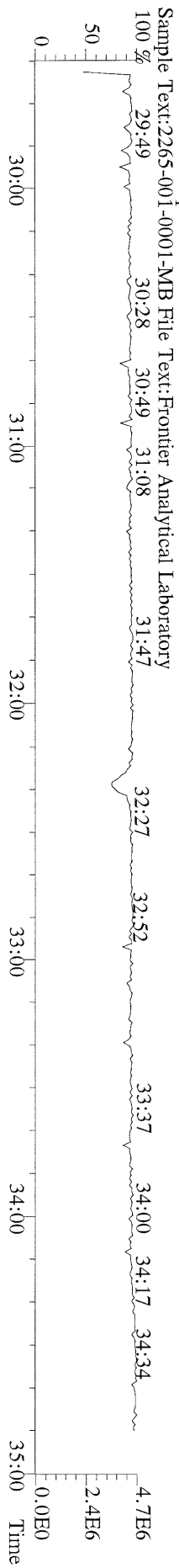
File:08APR11M #1-411 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



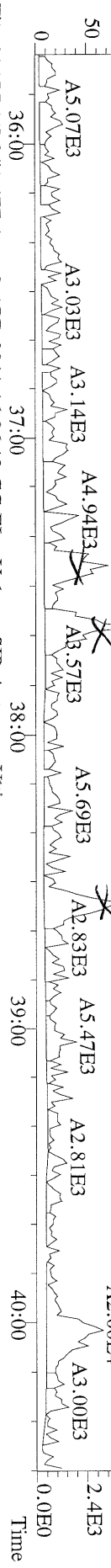
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 369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



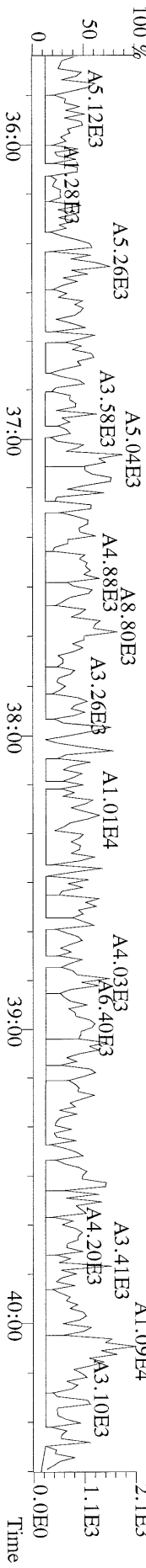
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 366.9792 S:3 F:2 Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



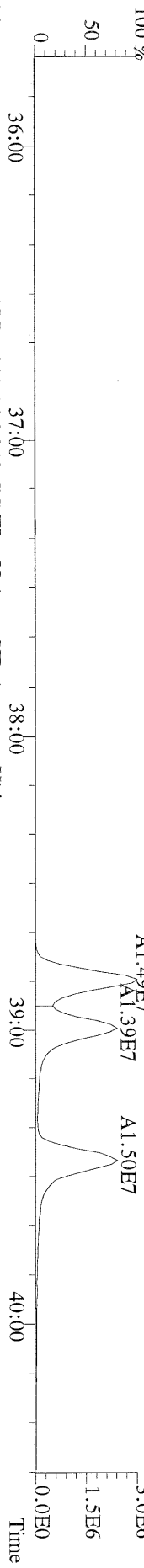
File:08APR11M #1-477 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



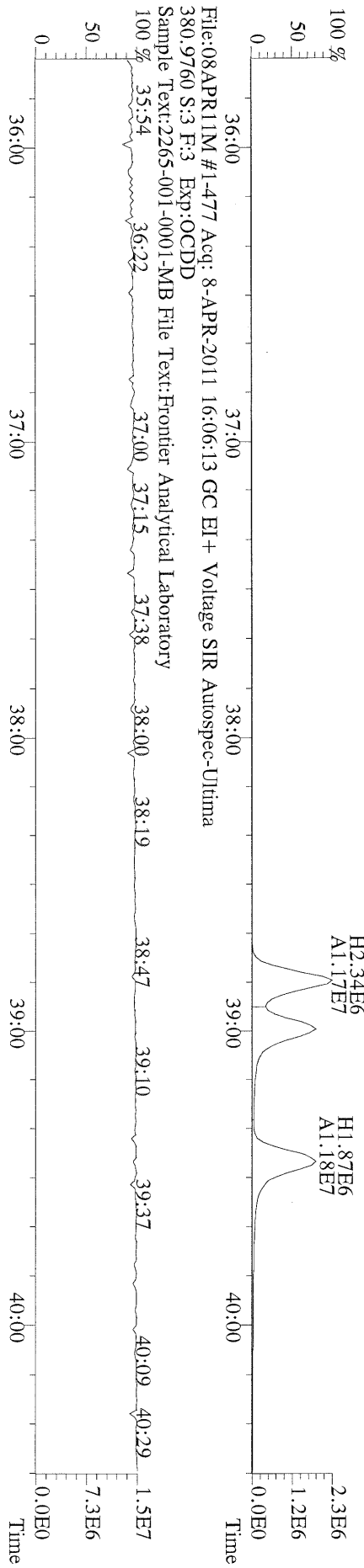
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 391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



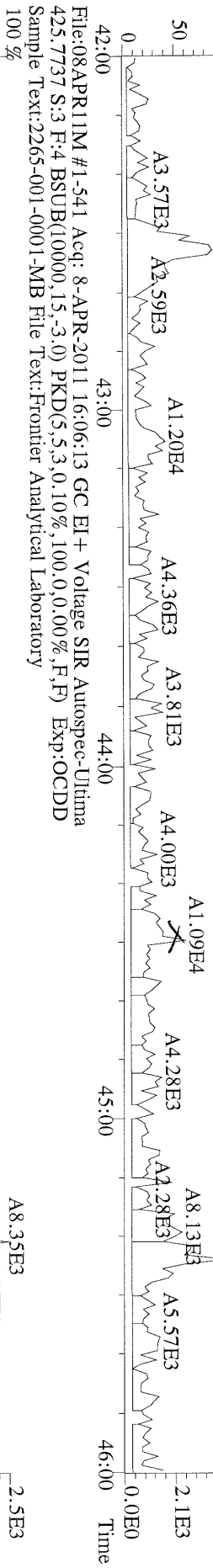
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 401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



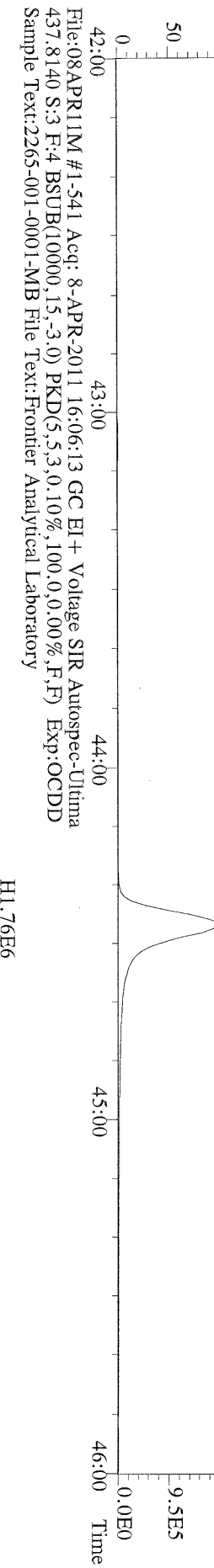
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 403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



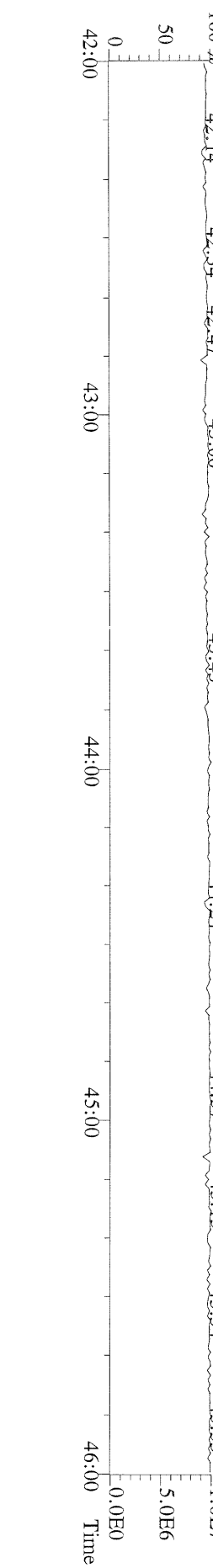
File:08APR11M #1-541 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



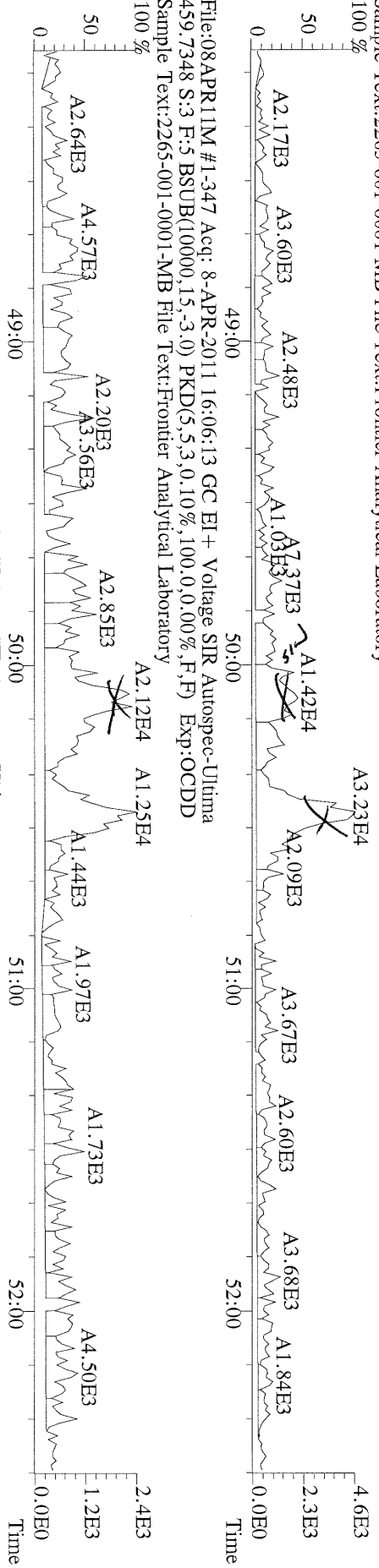
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435.8169 S:3 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



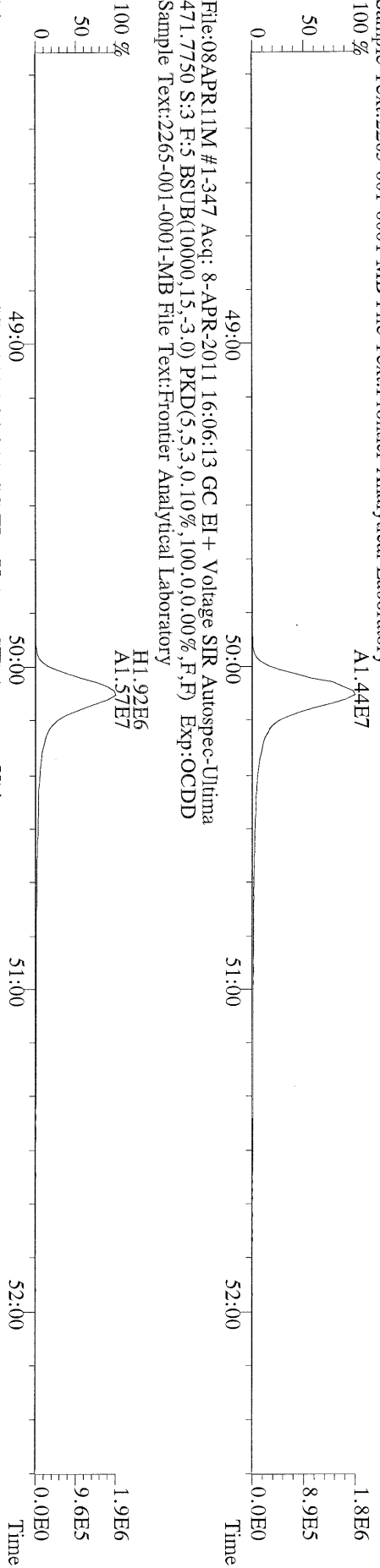
File:08APR11M #1-541 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



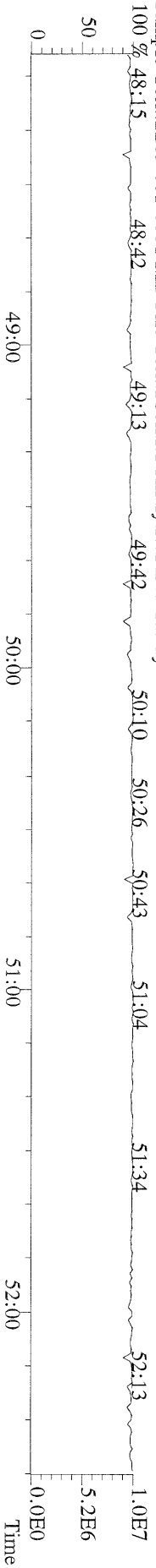
File:08APR11M #1-347 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory
100 %



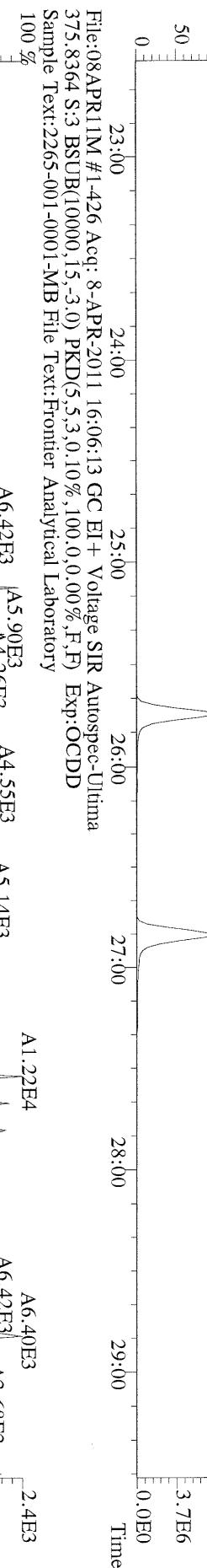
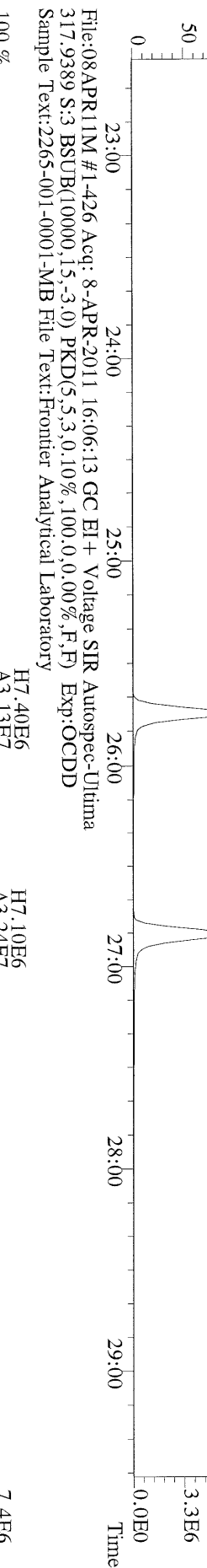
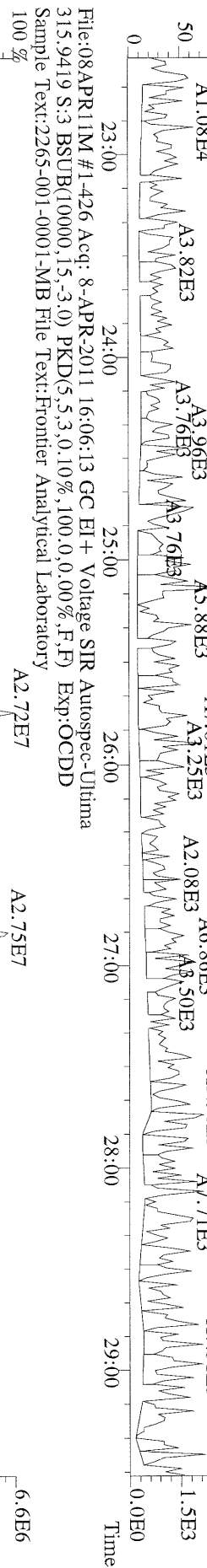
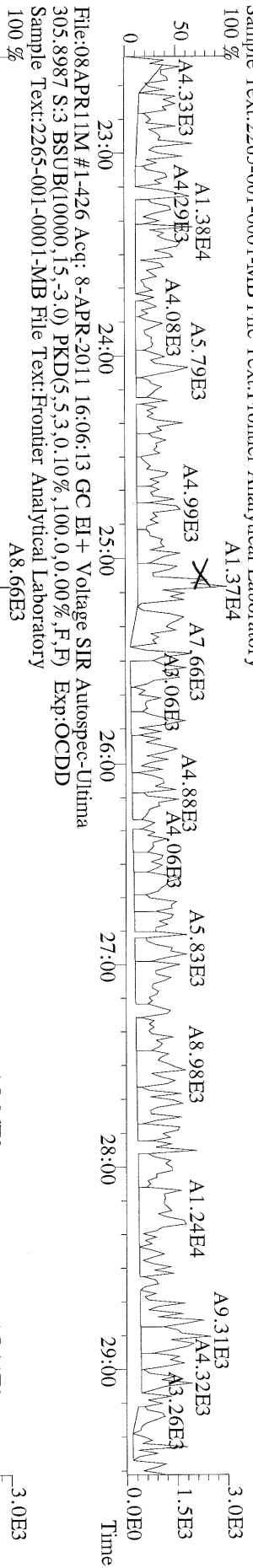
File:08APR11M #1-347 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory
100 %



File:08APR11M #1-347 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory
100 %

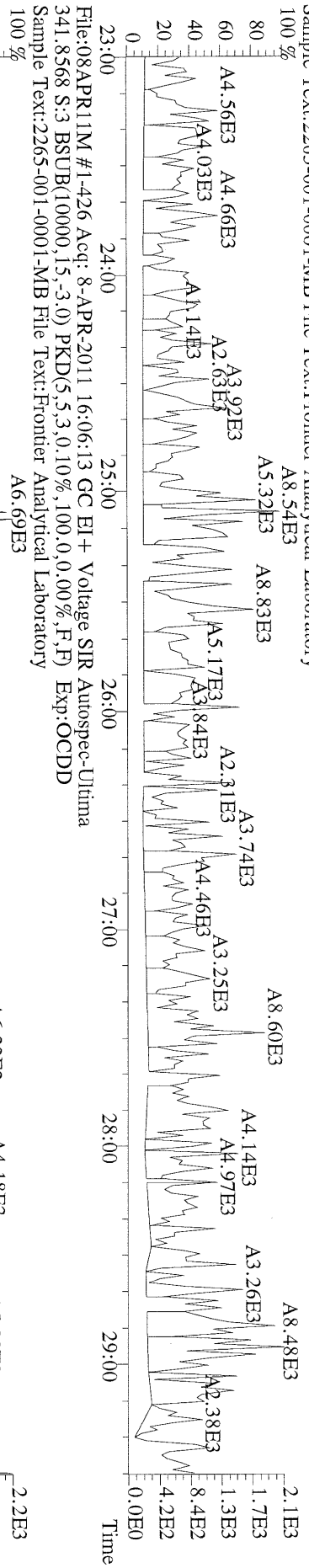


File:08APR11M #1-426 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory

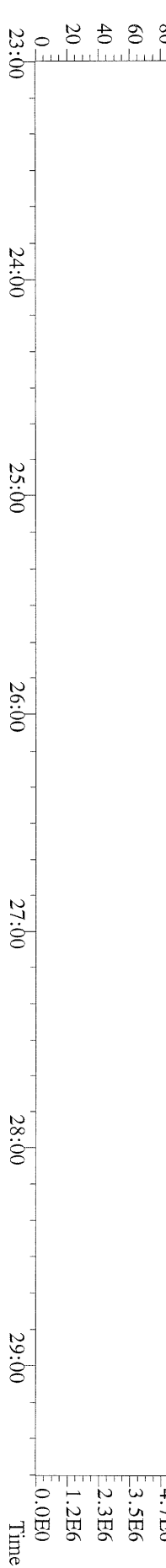
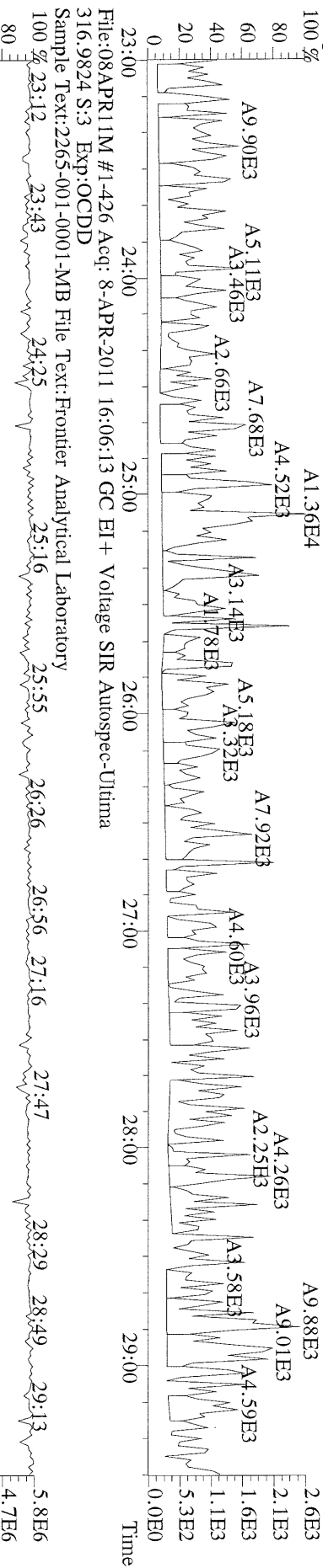


File:08APR11M #1-426 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory

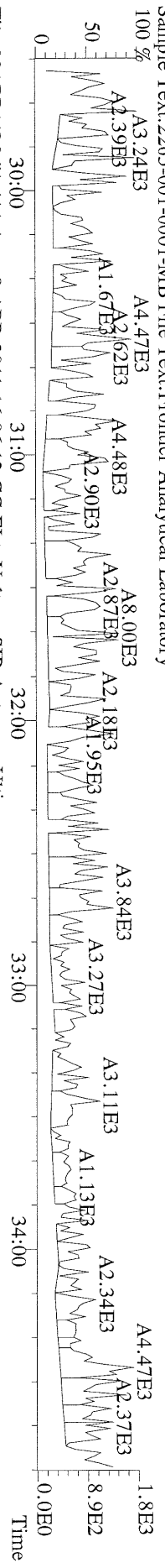
File:08APR11M #1-426 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



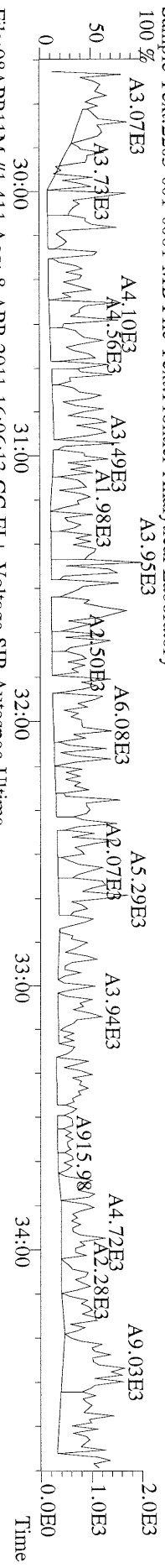
File:08APR11M #1-426 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



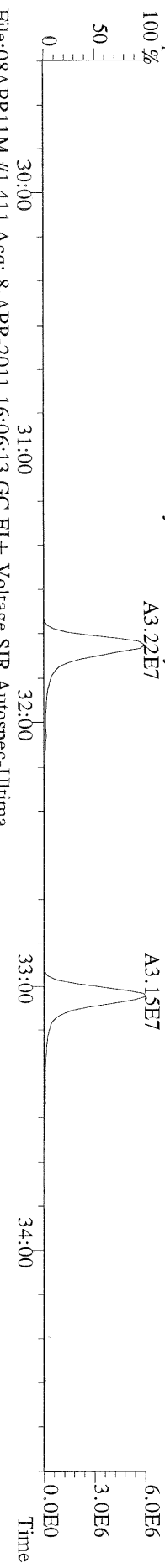
File:08APR11M #1-411 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



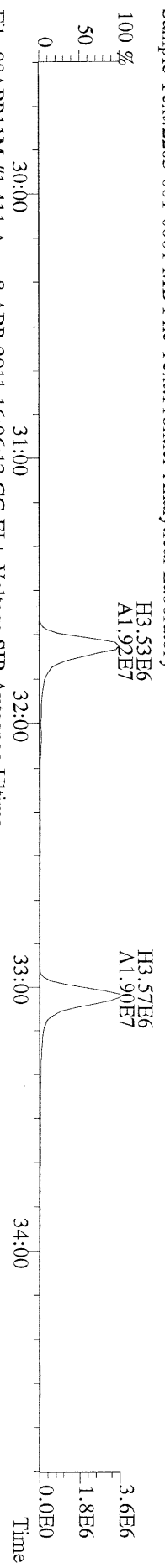
File:08APR11M #1-411 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



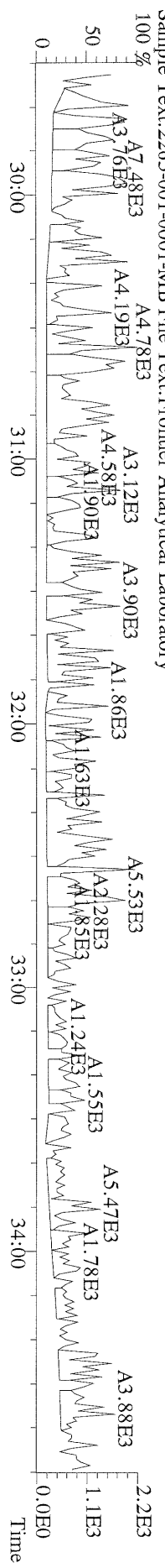
File:08APR11M #1-411 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



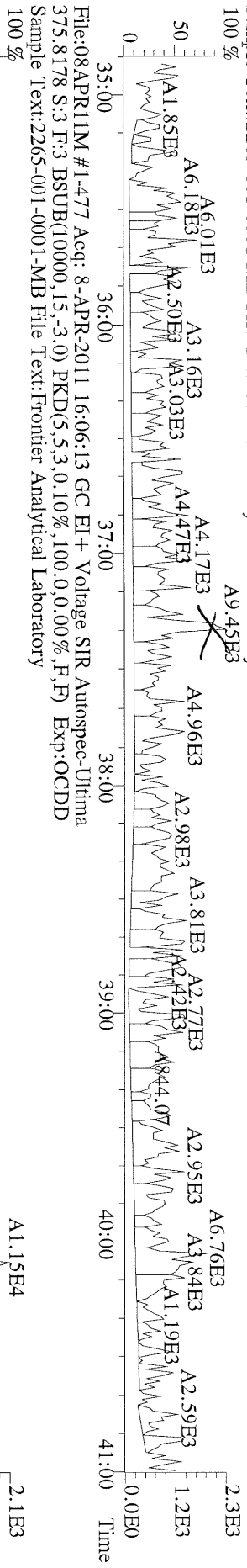
File:08APR11M #1-411 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



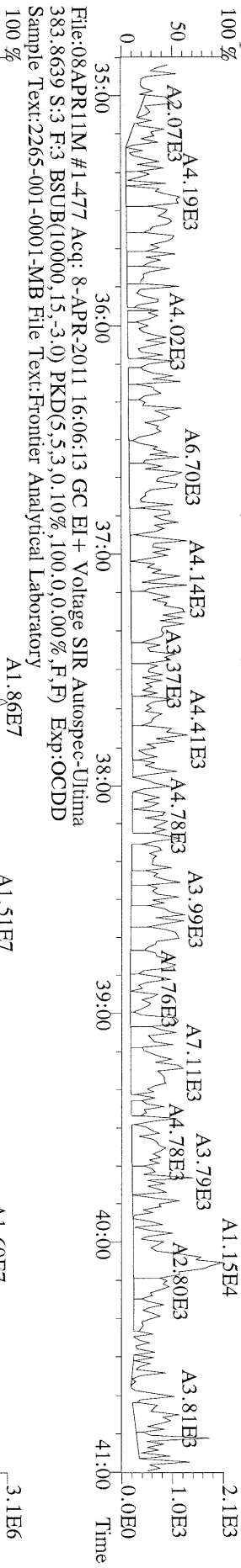
File:08APR11M #1-411 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



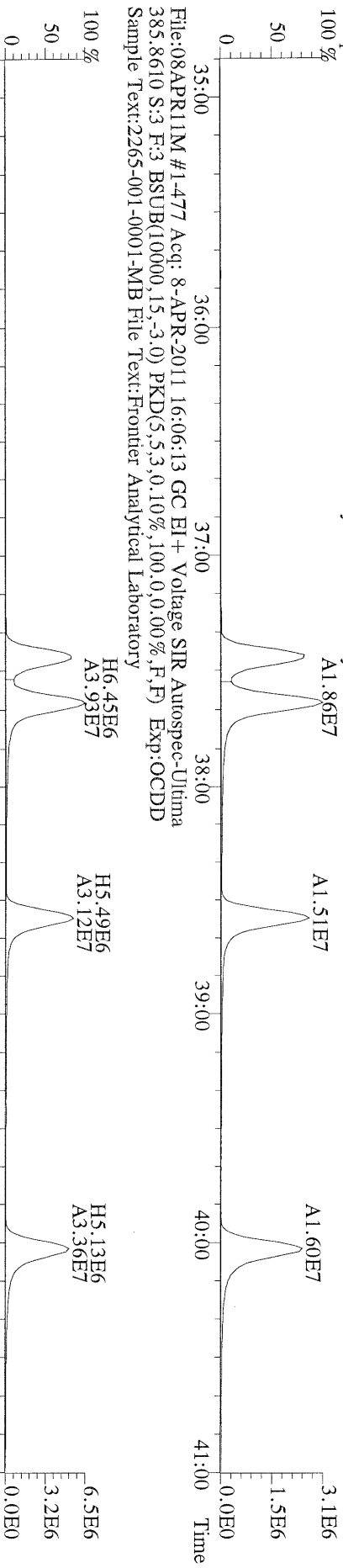
File:08APR11M #1-477 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
 373.8207 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



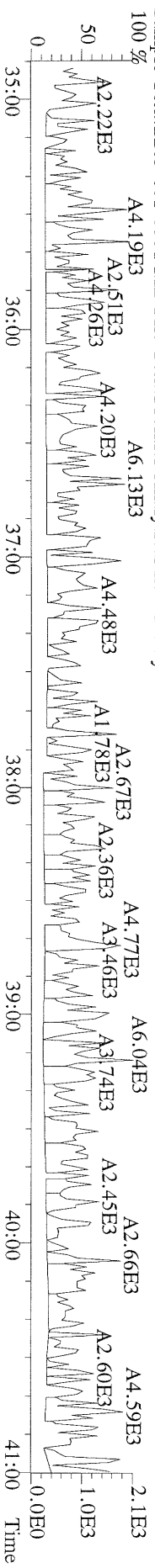
File:08APR11M #1-477 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
 375.8178 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



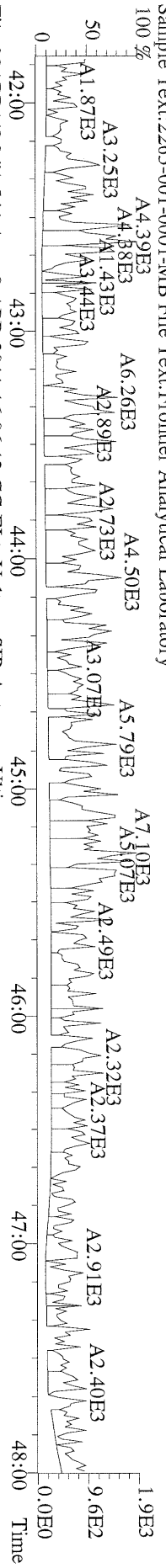
File:08APR11M #1-477 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
 383.8639 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



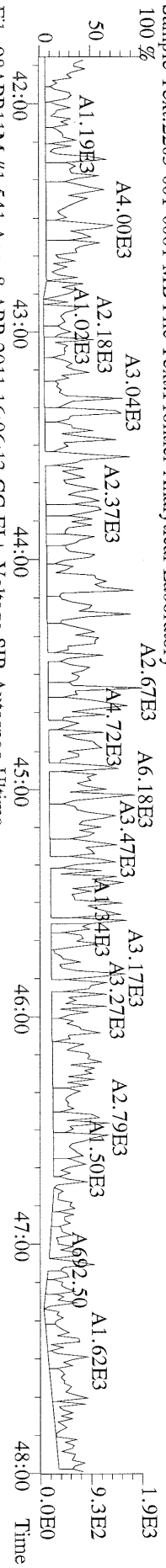
File:08APR11M #1-477 Acq: 8-APR-2011 16:06:13 GC EI + Voltage SIR Autospec-Ultima
 445.7555 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



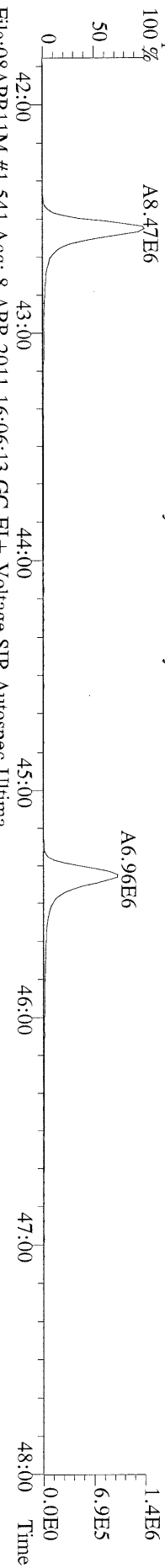
File:08APR11M #1-541 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



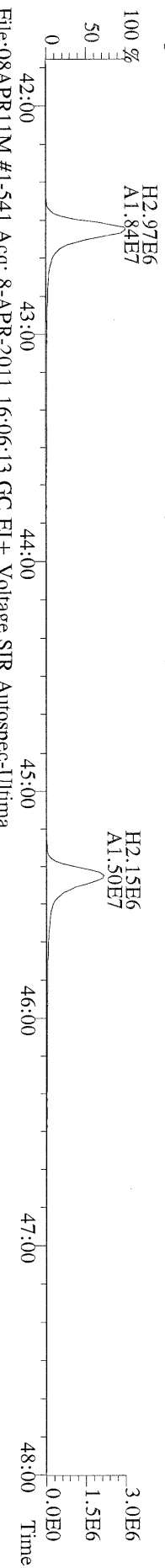
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 409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



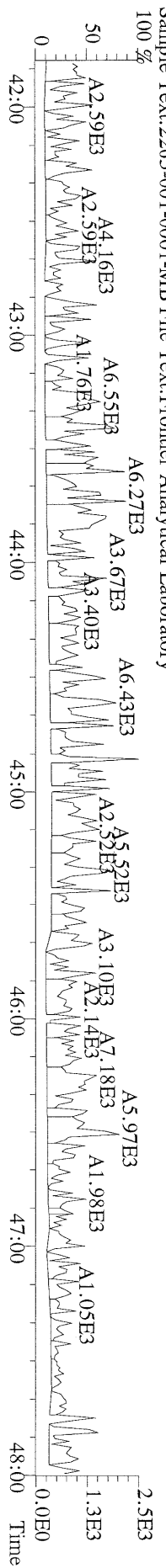
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 417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



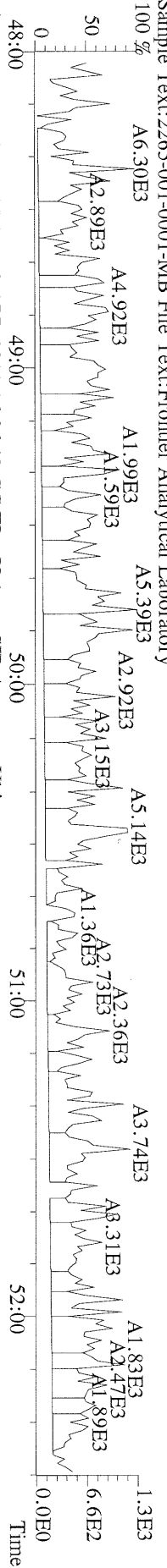
File:08APR11M #1-541 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



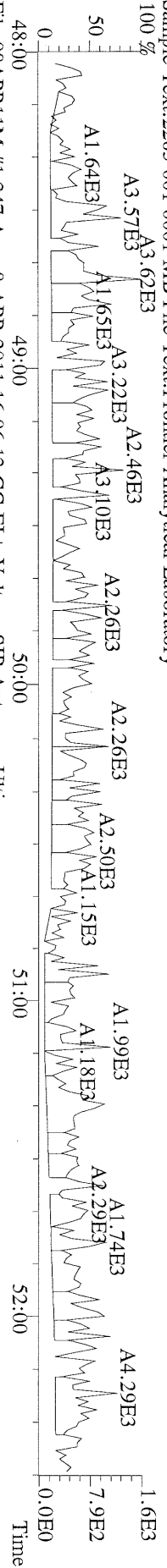
File:08APR11M #1-541 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



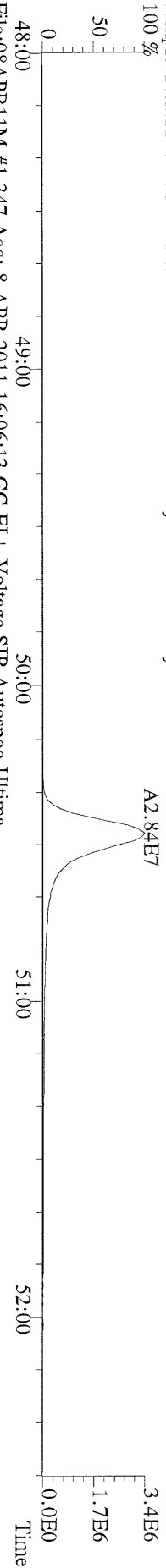
File:08APR11M #1-347 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



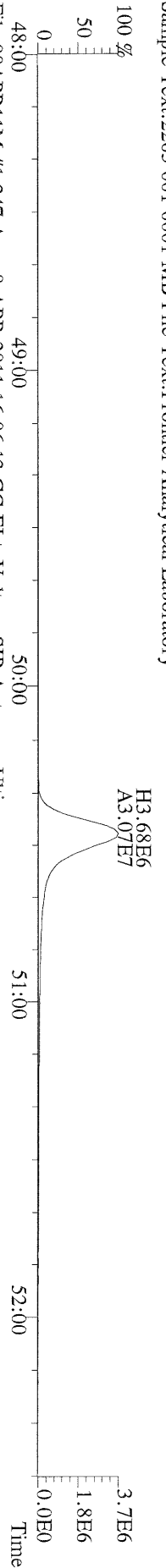
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443.7398 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



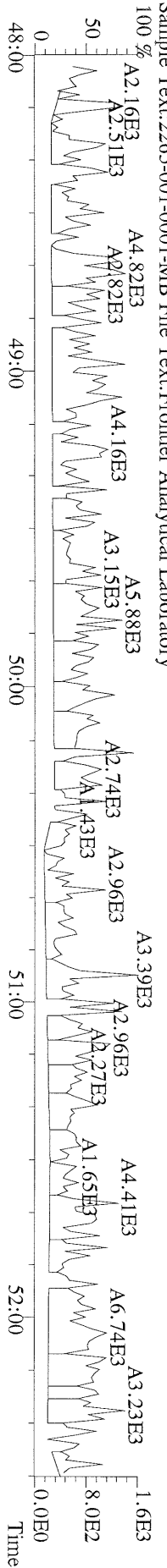
File:08APR11M #1-347 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



File:08APR11M #1-347 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



File:08APR11M #1-347 Acq: 8-APR-2011 16:06:13 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-MB File Text:Frontier Analytical Laboratory



USEPA - ITD

FORM 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 08APR11M Sam:2

Ext. Date: 4/7/11 Shift: Day Analysis Date: 8-APR-11 15:10:54

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	9.60	6.70 - 15.8 ✓
1,2,3,7,8-PeCDD	50	53.7	35.0 - 71.0 ✓
1,2,3,4,7,8-HxCDD	50	51.2	35.0 - 82.0 ✓
1,2,3,6,7,8-HxCDD	50	53.1	38.0 - 67.0 ✓
1,2,3,7,8,9-HxCDD	50	55.9	32.0 - 81.0 ✓
1,2,3,4,6,7,8-HpCDD	50	51.7	35.0 - 70.0 ✓
OCDD	100	110	78.0 - 144 ✓
2,3,7,8-TCDF	10	11.2	7.50 - 15.8 ✓
1,2,3,7,8-PeCDF	50	54.5	40.0 - 67.0 ✓
2,3,4,7,8-PeCDF	50	54.0	34.0 - 80.0 ✓
1,2,3,4,7,8-HxCDF	50	52.8	36.0 - 67.0 ✓
1,2,3,6,7,8-HxCDF	50	53.7	42.0 - 65.0 ✓
2,3,4,6,7,8-HxCDF	50	52.6	35.0 - 78.0 ✓
1,2,3,7,8,9-HxCDF	50	53.3	39.0 - 65.0 ✓
1,2,3,4,6,7,8-HpCDF	50	51.3	41.0 - 61.0 ✓
1,2,3,4,7,8,9-HpCDF	50	52.1	39.0 - 69.0 ✓
OCDF	100	102	63.0 - 170 ✓

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

Analyst: Date: 4/11/11

USEPA - ITD

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 08APR11M Sam:2

Ext. Date: 4/7/11 Shift: Day Analysis Date: 8-APR-11 15:10:54

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	94.0	20.0 - 175 ✓
13C-1,2,3,7,8-PeCDD	100	79.5	21.0 - 227 ✓
13C-1,2,3,4,7,8-HxCDD	100	68.5	21.0 - 193 ✓
13C-1,2,3,6,7,8-HxCDD	100	76.3	25.0 - 163 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	83.3	26.0 - 166 ✓
13C-OCDD	200	148	26.0 - 397 ✓
13C-2,3,7,8-TCDF	100	99.2	22.0 - 152 ✓
13C-1,2,3,7,8-PeCDF	100	90.8	21.0 - 192 ✓
13C-2,3,4,7,8-PeCDF	100	95.8	13.0 - 328 ✓
13C-1,2,3,4,7,8-HxCDF	100	72.0	19.0 - 202 ✓
13C-1,2,3,6,7,8-HxCDF	100	75.0	21.0 - 159 ✓
13C-2,3,4,6,7,8-HxCDF	100	78.7	22.0 - 176 ✓
13C-1,2,3,7,8,9-HxCDF	100	74.3	17.0 - 205 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	83.6	21.0 - 158 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	84.1	20.0 - 186 ✓
13C-OCDF	200	150	26.0 - 397 ✓
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	38.1	12.4 - 76.4 ✓

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

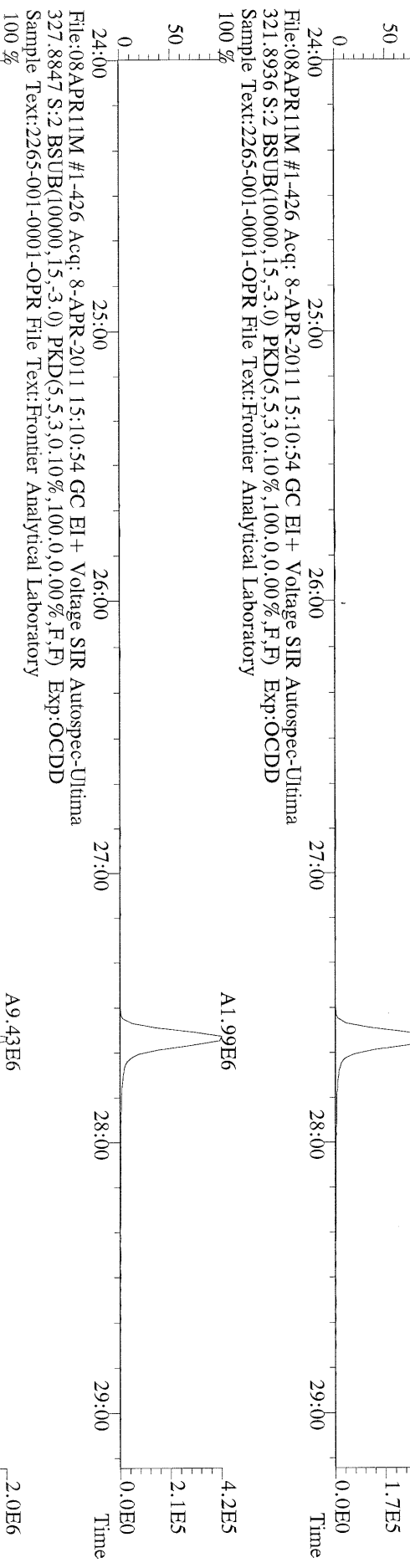
Analyst:

Date: 4/11/11

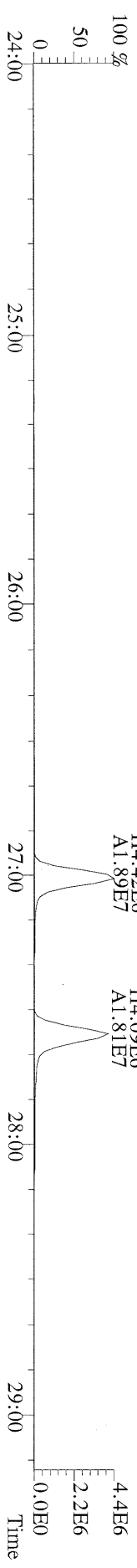
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	3.56e+06	0.79 y	27:37	1.13	9.60		2.50	-	*	94.0	
1,2,3,7,8-PeCDD	1.48e+07	1.53 y	33:28	1.02	53.7		2.50	-	*	79.5	
1,2,3,4,7,8-HxCDD	1.43e+07	1.30 y	38:51	1.45	51.2		2.50	-	*	68.5	
1,2,3,6,7,8-HxCDD	1.30e+07	1.32 y	39:00	1.45	53.1		2.50	-	*	76.3	
1,2,3,7,8,9-HxCDD	1.48e+07	1.36 y	39:28	1.47	55.9		2.50	-	*	83.3	
1,2,3,4,6,7,8-HpCDD	1.09e+07	0.92 y	44:28	1.30	51.7		2.50	-	*	74.1	
OCDD	1.69e+07	0.94 y	50:06	1.45	110		2.50	-	*		
2,3,7,8-TCDF	6.92e+06	0.67 y	26:52	1.15	11.2		2.50	-	*	99.2	
1,2,3,7,8-PeCDF	2.02e+07	1.62 y	31:44	0.89	54.5		2.50	-	*	90.8	
2,3,4,7,8-PeCDF	2.06e+07	1.59 y	33:03	0.89	54.0		2.50	-	*	95.8	
1,2,3,4,7,8-HxCDF	1.67e+07	1.27 y	37:28	1.01	52.8		2.50	-	*	72.0	
1,2,3,6,7,8-HxCDF	1.94e+07	1.23 y	37:40	0.89	53.7		2.50	-	*	75.0	
2,3,4,6,7,8-HxCDF	1.85e+07	1.24 y	38:36	1.02	52.6		2.50	-	*	78.7	
1,2,3,7,8,9-HxCDF	2.04e+07	1.25 y	40:03	1.10	53.3		2.50	-	*	74.3	
1,2,3,4,6,7,8-HpCDF	1.48e+07	1.04 y	42:34	1.48	51.3		2.50	-	*	83.6	
1,2,3,4,7,8,9-HpCDF	1.13e+07	1.04 y	45:24	1.43	52.1		2.50	-	*	84.1	
OCDF	1.79e+07	0.91 y	50:29	0.84	102		2.50	-	*	75.2	
13C-2,3,7,8-TCDD	3.27e+07	0.80 y	27:35	1.03	94.0						
13C-1,2,3,7,8-PeCDD	2.72e+07	1.72 y	33:27	1.01	79.5						
13C-1,2,3,4,7,8-HxCDD	1.93e+07	1.27 y	38:50	1.19	68.5						
13C-1,2,3,6,7,8-HxCDD	1.68e+07	1.27 y	38:60	0.94	76.3						
13C-1,2,3,4,6,7,8-HpCDD	1.63e+07	1.05 y	44:27	0.83	83.3						
13C-OCDD	2.13e+07	0.94 y	50:05	0.61	148						
13C-2,3,7,8-TCDF	5.39e+07	0.86 y	26:51	0.98	99.2						
13C-1,2,3,7,8-PeCDF	4.18e+07	1.68 y	31:43	0.83	90.8						
13C-2,3,4,7,8-PeCDF	4.27e+07	1.66 y	33:02	0.80	95.8						
13C-1,2,3,4,7,8-HxCDF	3.13e+07	0.48 y	37:27	1.84	72.0						
13C-1,2,3,6,7,8-HxCDF	4.05e+07	0.47 y	37:38	2.29	75.0						
13C-2,3,4,6,7,8-HxCDF	3.46e+07	0.48 y	38:35	1.86	78.7						
13C-1,2,3,7,8,9-HxCDF	3.47e+07	0.48 y	40:02	1.98	74.3						
13C-1,2,3,4,6,7,8-HpCDF	1.95e+07	0.45 y	42:32	0.99	83.6						
13C-1,2,3,4,7,8,9-HpCDF	1.52e+07	0.46 y	45:22	0.77	84.1						
13C-OCDF	4.14e+07	0.91 y	50:28	1.17	150						
37Cl-2,3,7,8-TCDD	9.43e+06		27:36	0.73	38.1					95.3	
13C-1,2,3,4-TCDD	3.39e+07	0.79 y	27:01	-	89.1						
13C-1,2,3,4-TCDF	5.54e+07	0.87 y	25:45	-	77.0						
13C-1,2,3,7,8,9-HxCDD	2.36e+07	1.28 y	39:26	-	95.1						
Total Tetra-Dioxins	3.72e+06		23:09	1.13	10.0		2.50	-	*		24
Total Penta-Dioxins	1.49e+07		33:28	1.02	54.1		2.50	-	*		4
Total Hexa-Dioxins	4.22e+07		38:51	1.46	160		2.50	-	*		7
Total Hepta-Dioxins	1.10e+07		42:33	1.30	52.0		2.50	-	*		4
Total Tetra-Furans	7.16e+06		24:23	1.15	11.6		2.50	-	*		17
1st Fn. Tot Penta-Furans	2.01e+05		22:53	0.89	0.535		2.50	-	*	PeCDF	40
Total Penta-Furans	4.18e+07		30:28	0.89	111		2.50	-	*	112	7
Total Hexa-Furans	7.54e+07		35:31	1.00	213		2.50	-	*		13
Total Hepta-Furans	2.67e+07		42:34	1.46	106		2.50	-	*		18

Analyst:  Date: 4/11/11

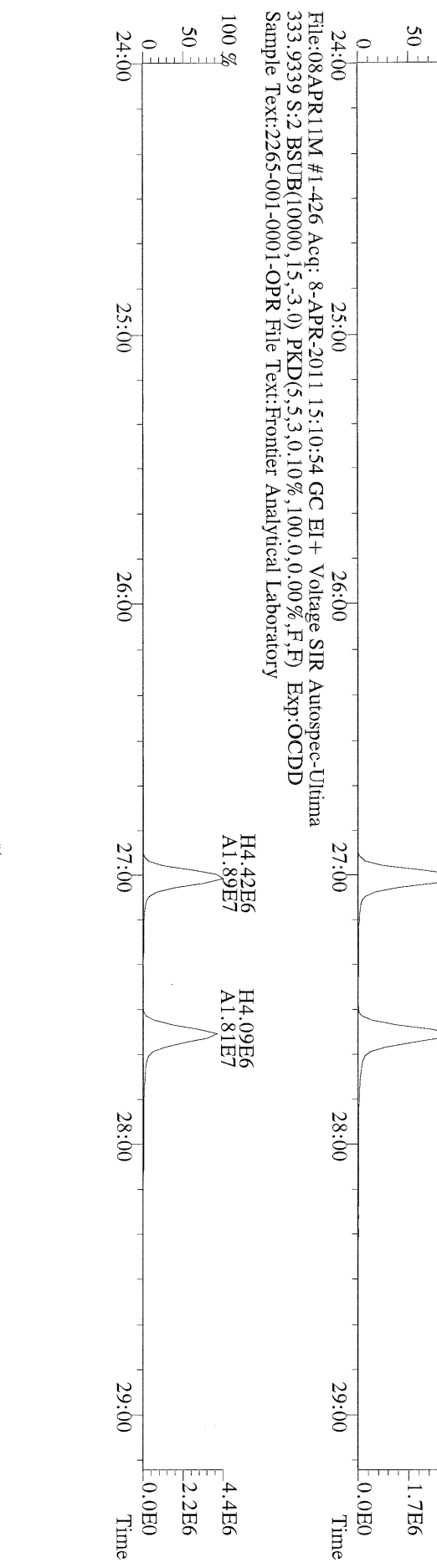
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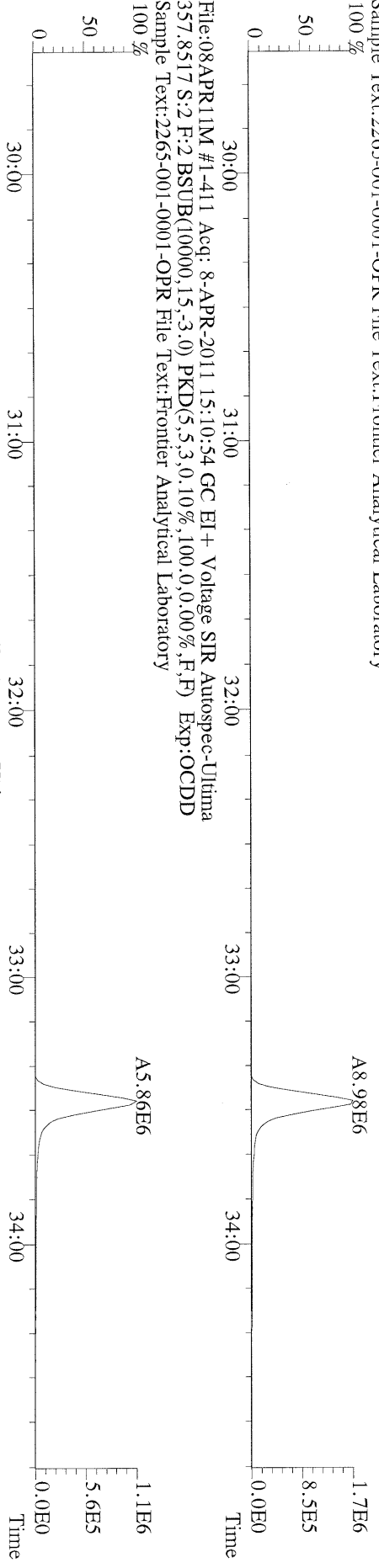
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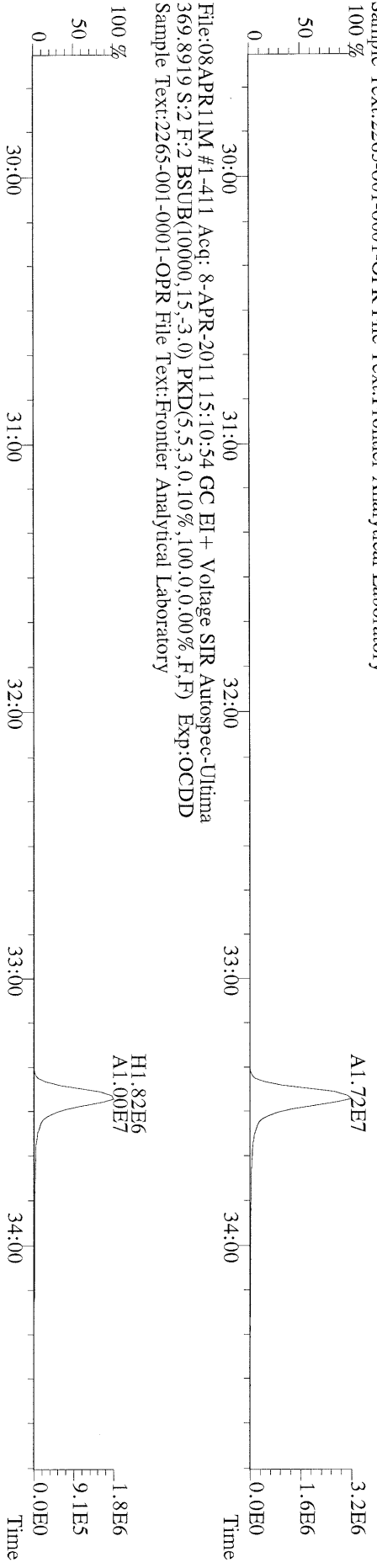
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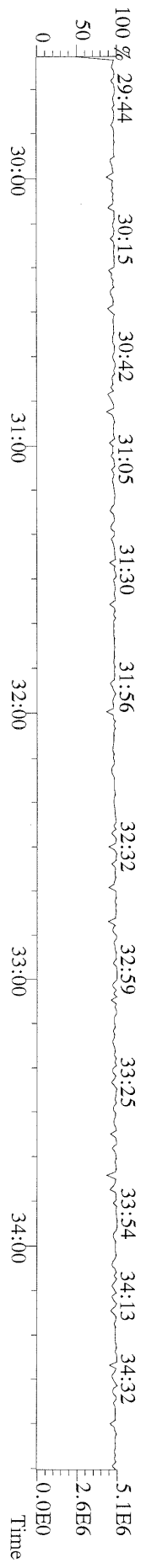
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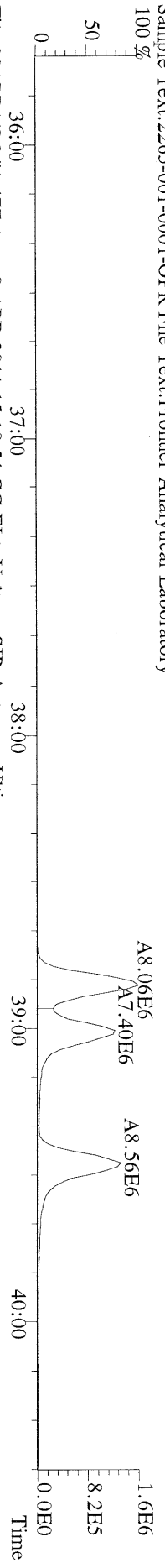
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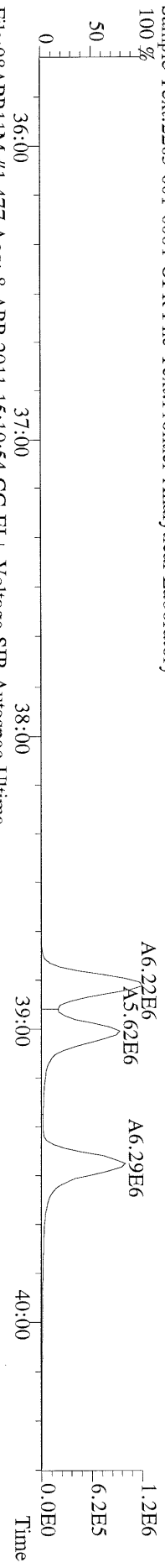
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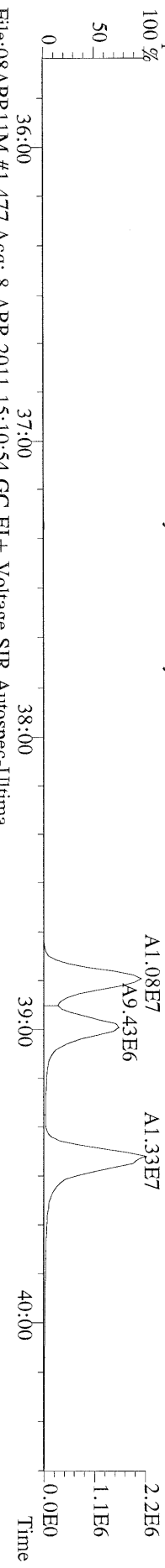
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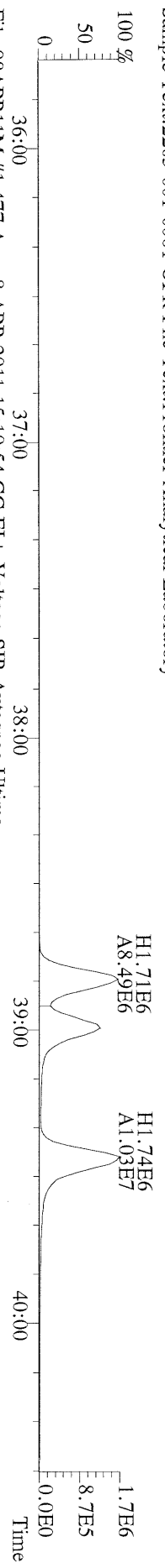
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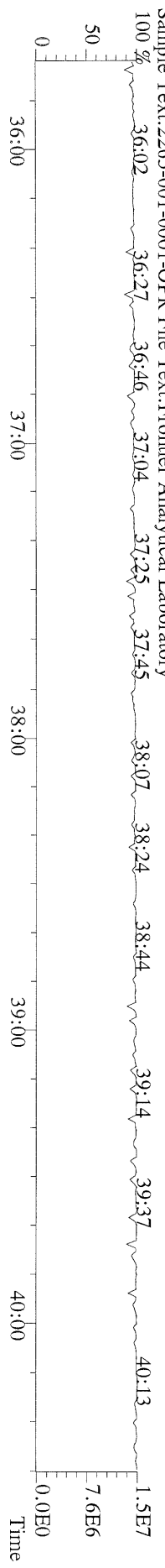
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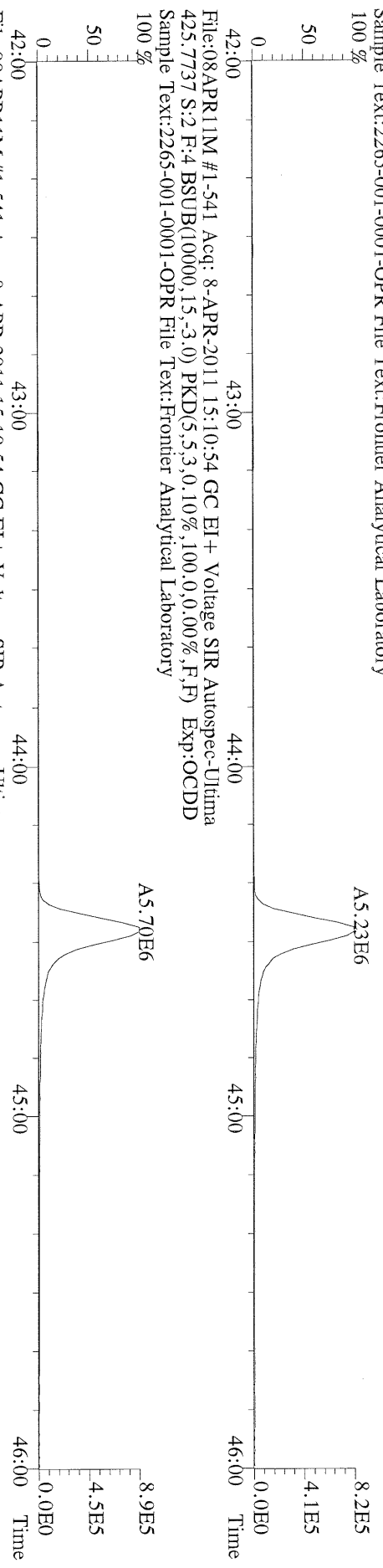
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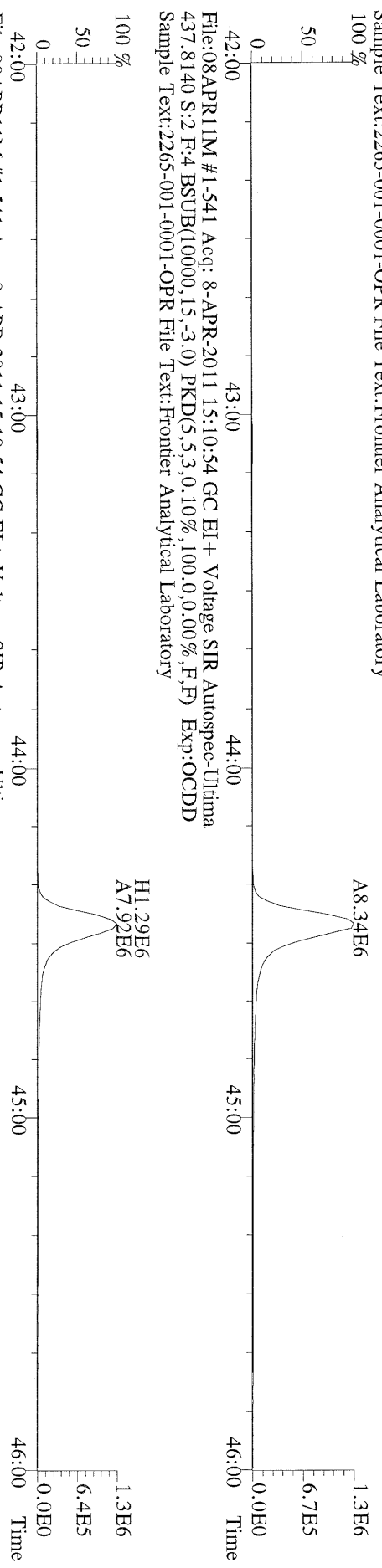
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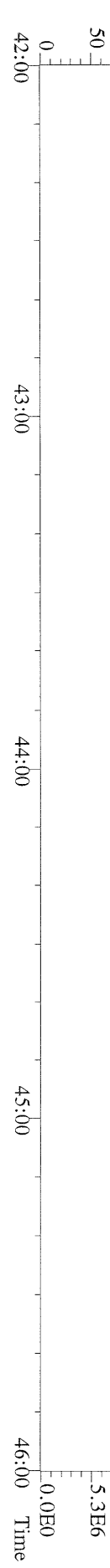
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100 %



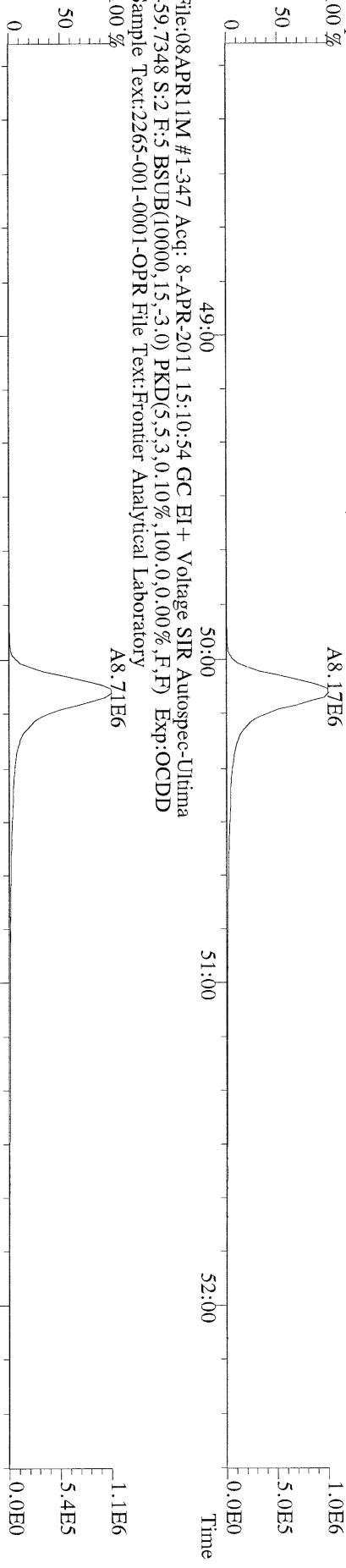
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100 %



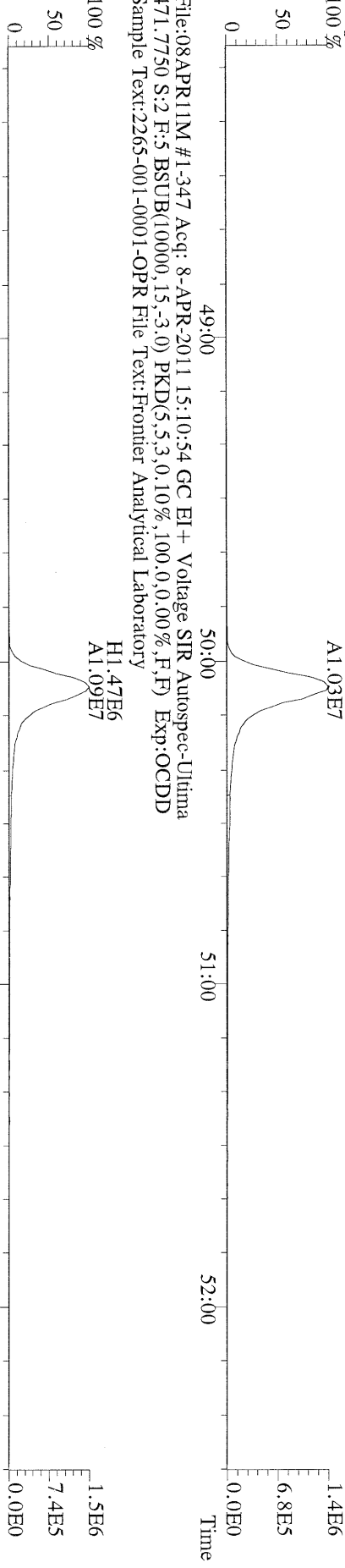
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100 %



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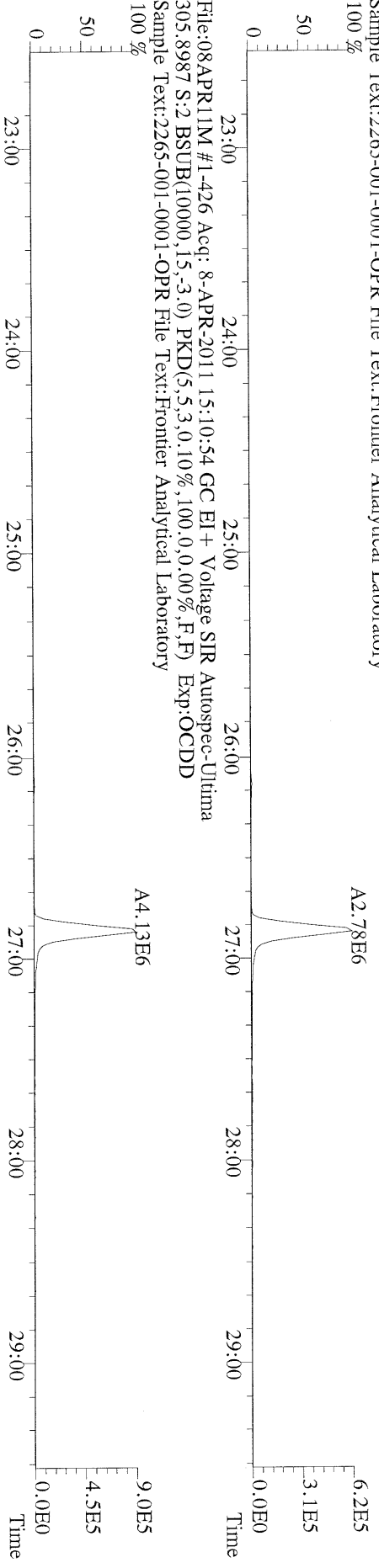
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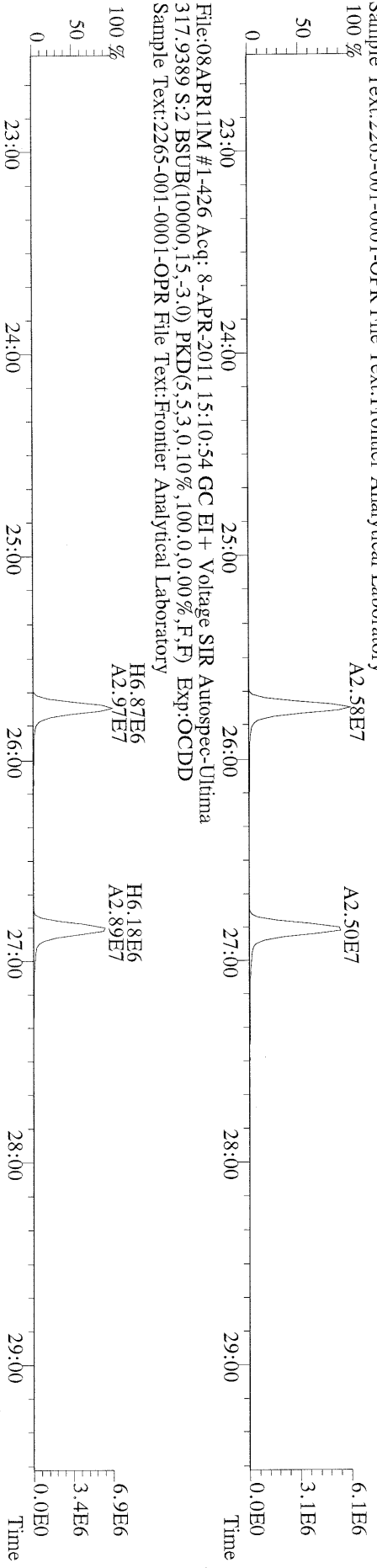
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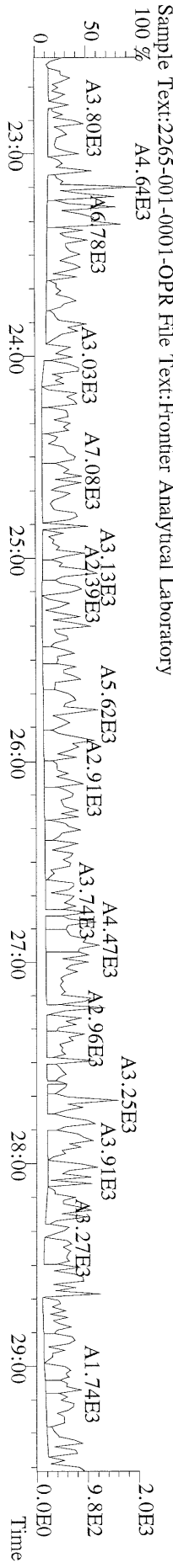
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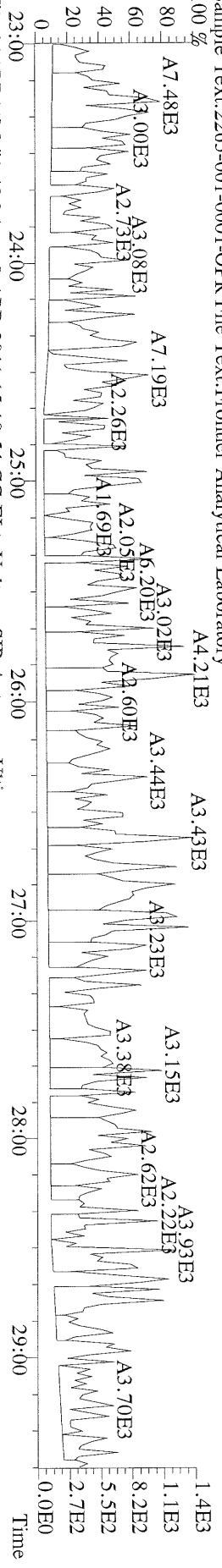
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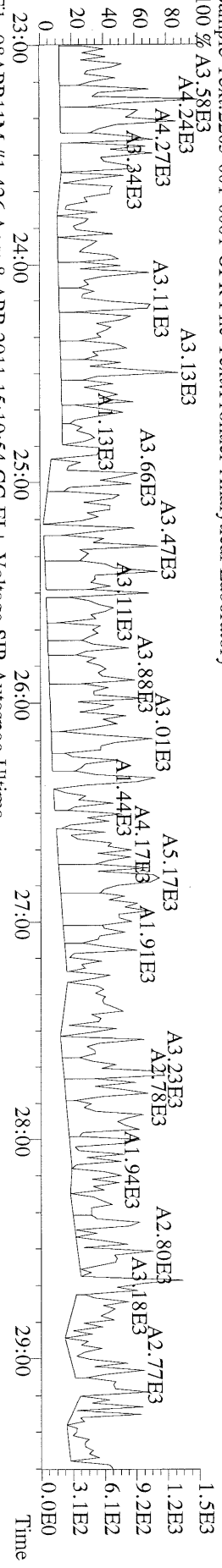
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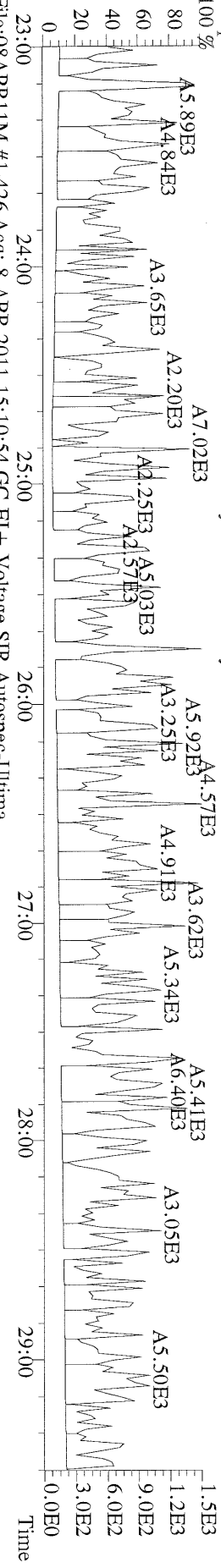
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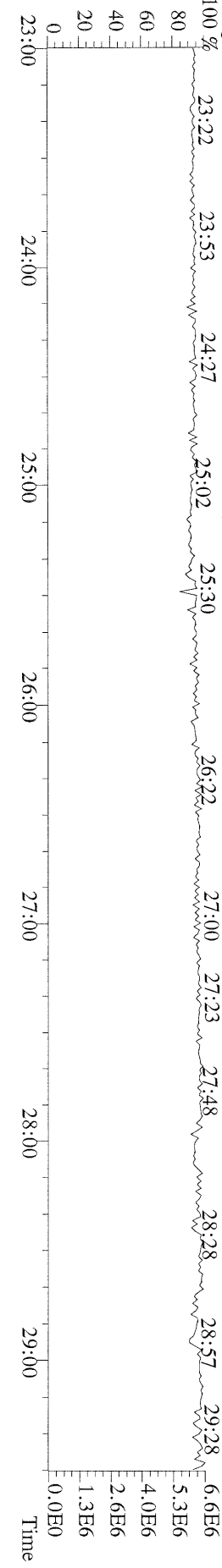
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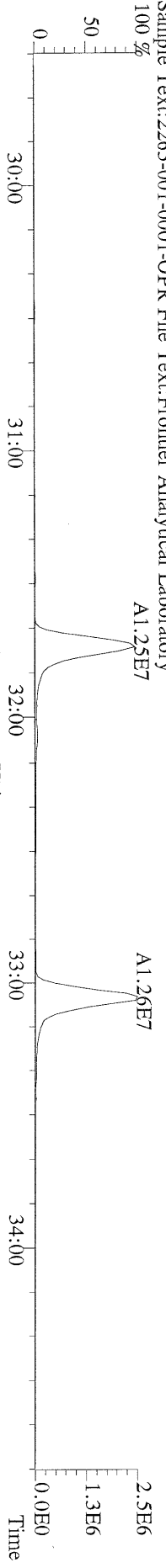
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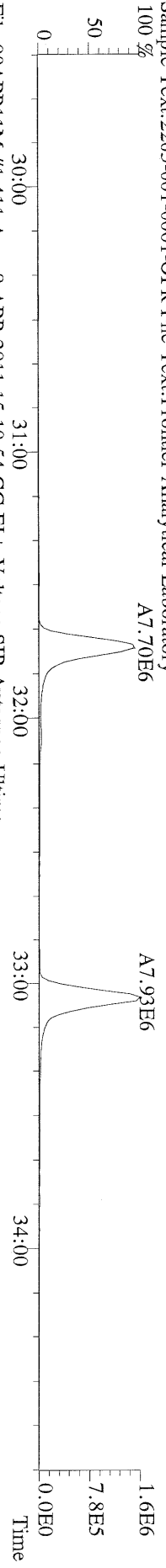
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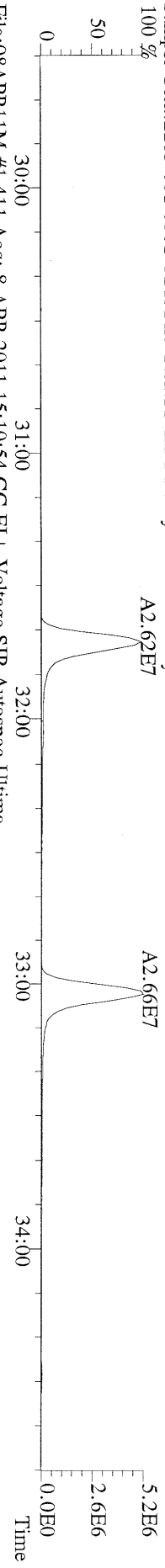
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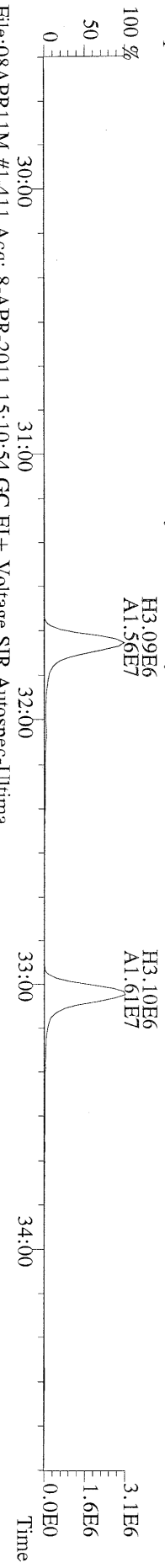
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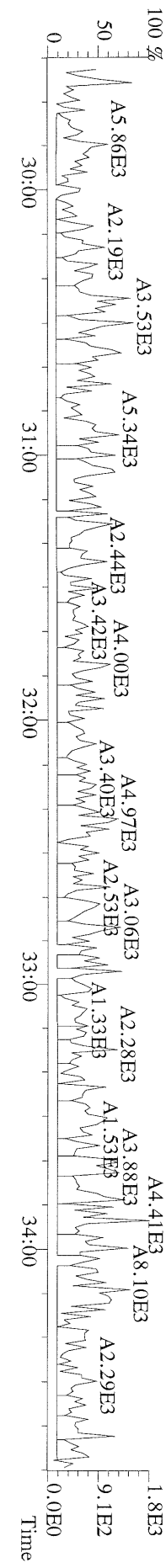
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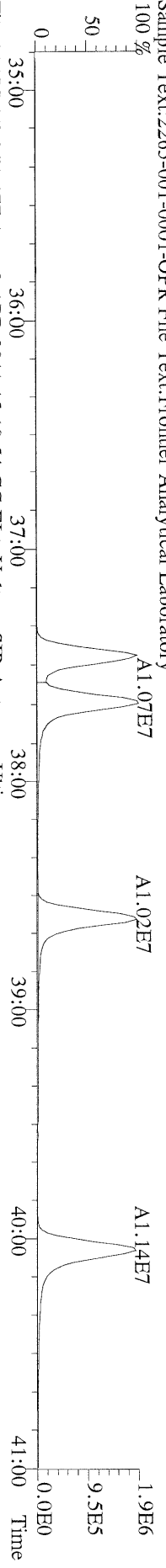
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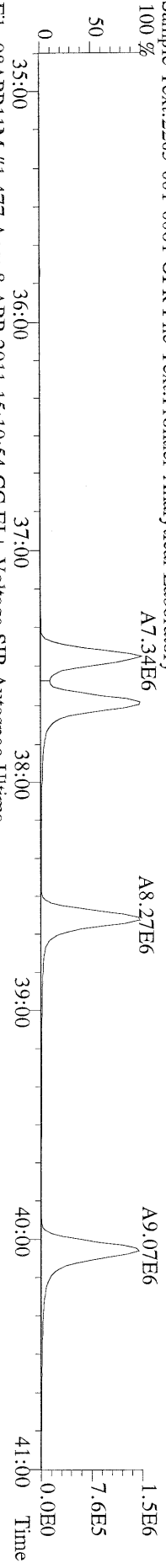
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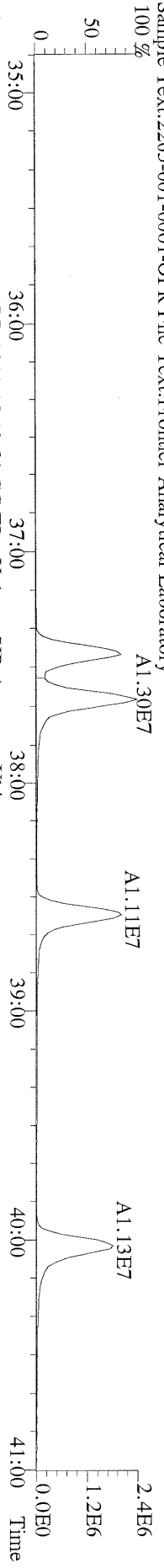
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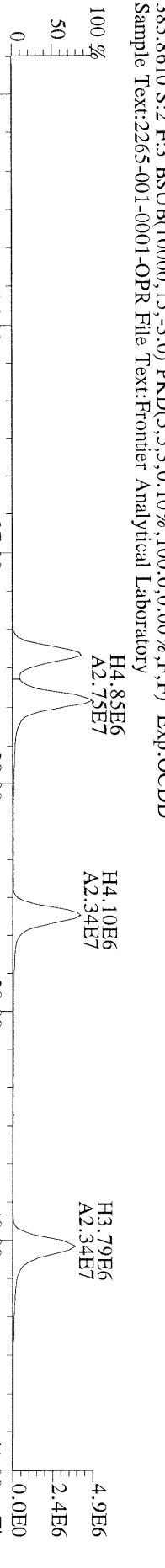
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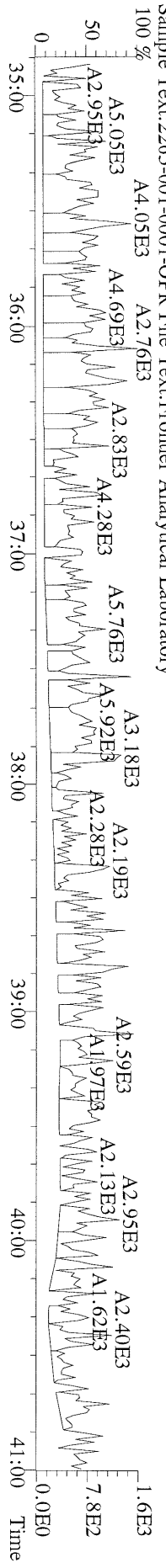
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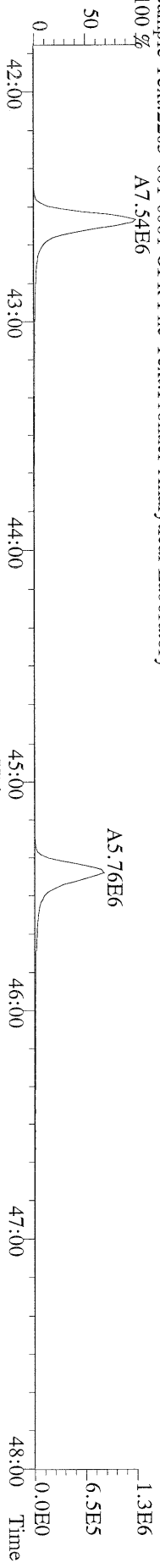
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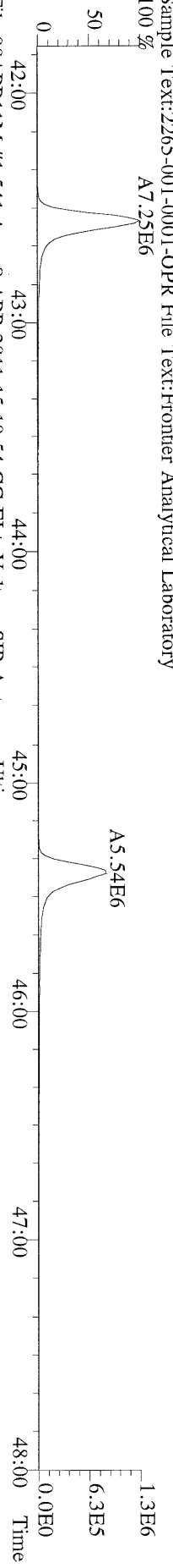
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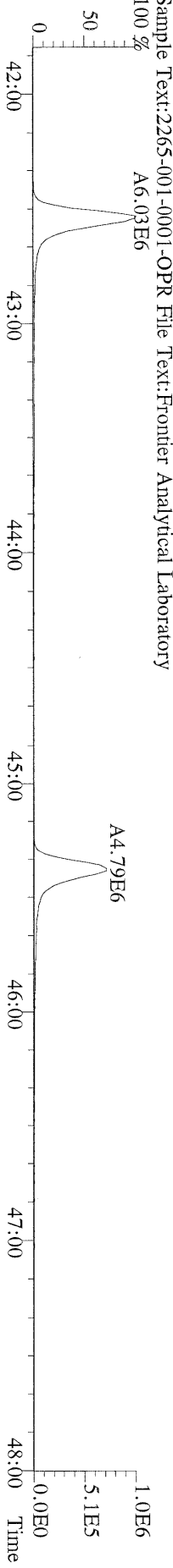
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407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



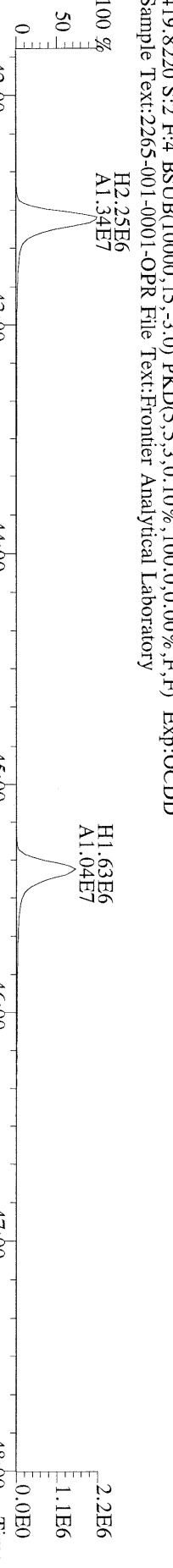
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409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



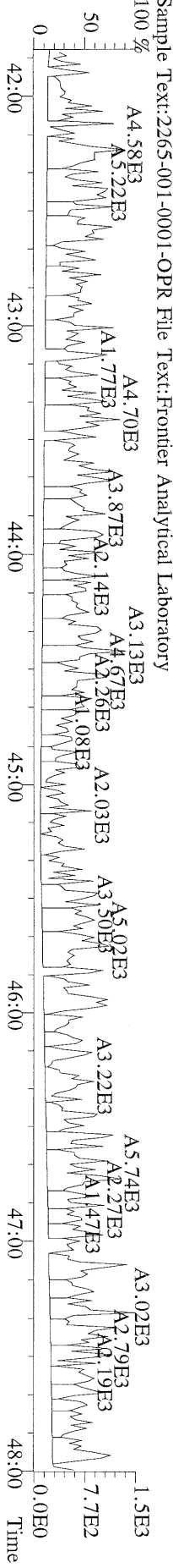
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417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



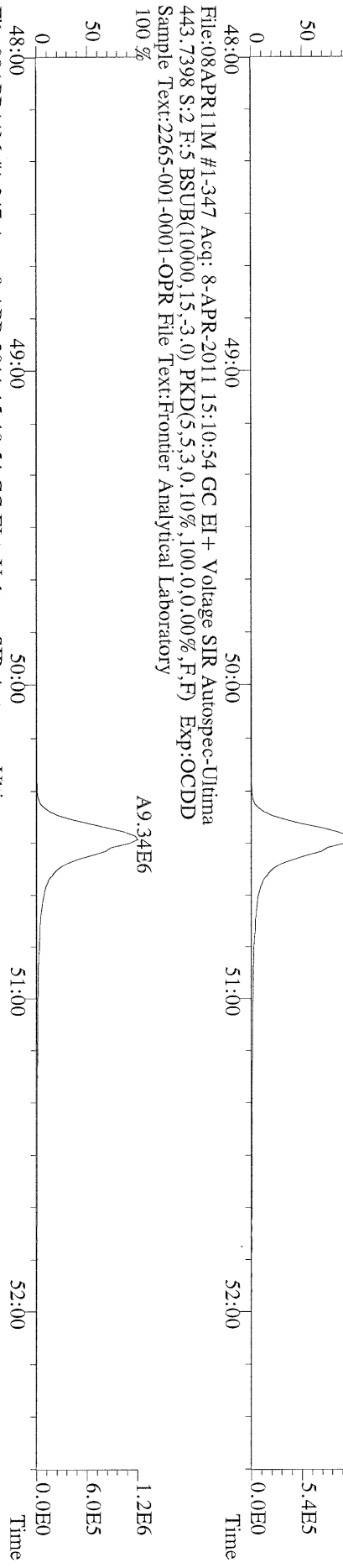
File:08APR11M #1-541 Acq: 8-APR-2011 15:10:54 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



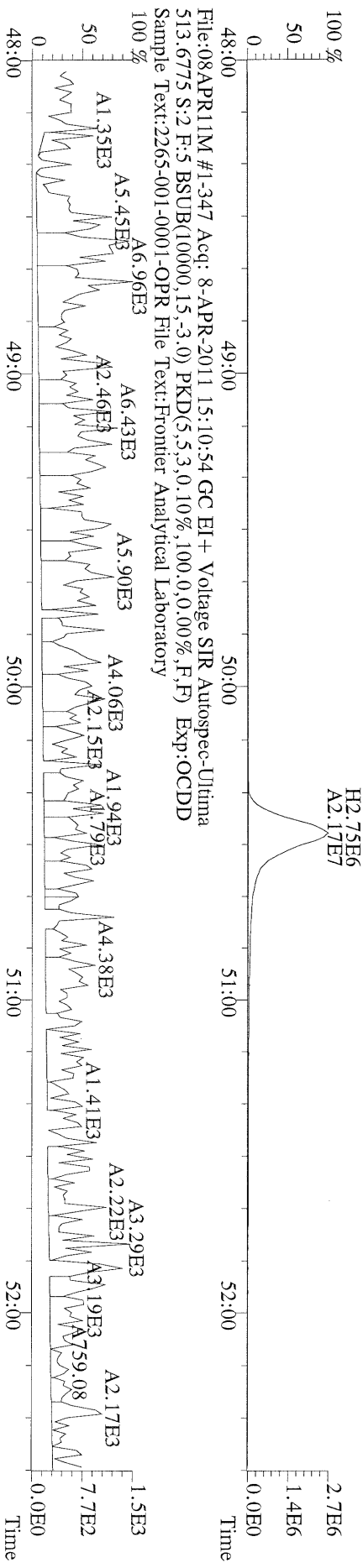
File:08APR11M #1-541 Acq: 8-APR-2011 15:10:54 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



File:08APR11M #1-347 Acq: 8-APR-2011 15:10:54 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



File:08APR11M #1-347 Acq: 8-APR-2011 15:10:54 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



File:08APR11M #1-347 Acq: 8-APR-2011 15:10:54 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:2265-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	6.88e+04	0.71 y	27:24	1.13	4.31		2.50	-	-	*		
1,2,3,7,8-PeCDD	2.71e+05	1.54 y	33:16	1.02	20.7		2.50	-	-	*		
1,2,3,4,7,8-HxCDD	8.51e+05	1.39 y	38:41	1.45	53.8		2.50	-	-	*		
1,2,3,6,7,8-HxCDD	2.27e+06	1.34 y	38:50	1.45	188		2.50	-	-	*		
1,2,3,7,8,9-HxCDD	1.60e+06	1.33 y	39:18	1.47	113		2.50	-	-	*		
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.30	* 4,770 *		2.50	-	-	*		
OCDD	*	* n	NotFnd	1.45	* 64,500 *		2.50	-	-	*		
2,3,7,8-TCDF	2.89e+05	0.67 y	26:39	1.15	10.0	8.37 DB23 F	2.50	-	-	*		
1,2,3,7,8-PeCDF	2.04e+05	1.61 y	31:31	0.89	10.5		2.50	-	-	*		
2,3,4,7,8-PeCDF	2.41e+05	1.72 y	32:52	0.89	13.0		2.50	-	-	*		
1,2,3,4,7,8-HxCDF	2.37e+06	1.26 y	37:17	1.01	130		2.50	-	-	*		
1,2,3,6,7,8-HxCDF	8.32e+05	1.32 y	37:29	0.89	42.3		2.50	-	-	*		
2,3,4,6,7,8-HxCDF	1.03e+06	1.25 y	38:26	1.02	56.4		2.50	-	-	*		
1,2,3,7,8,9-HxCDF	2.54e+05	1.29 y	39:54	1.10	11.5		2.50	-	-	*		
1,2,3,4,6,7,8-HpCDF	2.08e+07	1.04 y	42:27	1.48	1320		2.50	-	-	*		
1,2,3,4,7,8,9-HpCDF	1.11e+06	1.03 y	45:15	1.43	88.7		2.50	-	-	*		
OCDF	3.09e+07	0.87 y	50:23	0.84	3830		2.50	-	-	*		
13C-2,3,7,8-TCDD	8.58e+06	0.80 y	27:23	1.03	401						65.7	
13C-1,2,3,7,8-PeCDD	7.86e+06	1.75 y	33:14	1.01	374						61.3	
13C-1,2,3,4,7,8-HxCDD	6.66e+06	1.31 y	38:40	1.19	401						65.7	
13C-1,2,3,6,7,8-HxCDD	5.07e+06	1.31 y	38:50	0.94	388						63.6	
13C-1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	0.83	*	*					* 9.0!	
13C-OCDD	*	* n	NotFnd	0.61	*	*					* 84.5!	
13C-2,3,7,8-TCDF	1.53e+07	0.87 y	26:37	0.98	438						71.9	
13C-1,2,3,7,8-PeCDF	1.33e+07	1.73 y	31:30	0.83	450						73.8	
13C-2,3,4,7,8-PeCDF	1.26e+07	1.74 y	32:49	0.80	440						72.2	
13C-1,2,3,4,7,8-HxCDF	1.10e+07	0.47 y	37:17	1.84	428						70.3	
13C-1,2,3,6,7,8-HxCDF	1.34e+07	0.47 y	37:28	2.29	420						69.0	
13C-2,3,4,6,7,8-HxCDF	1.09e+07	0.49 y	38:24	1.86	420						68.8	
13C-1,2,3,7,8,9-HxCDF	1.22e+07	0.48 y	39:50	1.98	443						72.7	
13C-1,2,3,4,6,7,8-HpCDF	6.47e+06	0.43 y	42:26	0.99	470						77.1	
13C-1,2,3,4,7,8,9-HpCDF	5.37e+06	0.43 y	45:15	0.77	503						82.5	
13C-OCDF	1.17e+07	0.96 y	50:22	1.17	717						58.8	
37Cl-2,3,7,8-TCDD	2.23e+06		27:24	0.73	147						60.2	
13C-1,2,3,4-TCDD	1.27e+07	0.80 y	26:49	-	10.2							
13C-1,2,3,4-TCDF	2.18e+07	0.88 y	25:32	-	9.22							
13C-1,2,3,7,8,9-HxCDD	8.51e+06	1.28 y	39:17	-	10.5							
Total Tetra-Dioxins	1.00e+06		24:25	1.13	62.9		2.50	-	-	*		13
Total Penta-Dioxins	4.09e+06		30:15	1.02	312		2.50	-	-	*		10
Total Hexa-Dioxins	1.91e+07		36:14	1.46	1380		2.50	-	-	*		7
Total Hepta-Dioxins	*		NotFnd	1.30	* 13,300 *		2.50	-	-	*		0
Total Tetra-Furans	5.12e+06		23:03	1.15	177		2.50	-	-	*		22
1st Fn. Tot Penta-Furans	2.78e+06		28:29	0.89	147		2.50	-	-	*	PeCDF	1
Total Penta-Furans	3.86e+06		30:05	0.89	204		2.50	-	-	*	351/	12
Total Hexa-Furans	2.91e+07		35:23	1.00	1500	D,M	2.50	-	-	*		11
Total Hepta-Furans	6.51e+07		42:27	1.46	4460		2.50	-	-	*		4

Analyst: J Date: 4/21/11

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 28 File: 20APR11M S: 21 I: 1 F: 1
Acquired: 21-APR-11 04:43:45

Total Concentration: 62.9

Unnamed Concentration: 58.617

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:25	7.39e+04	1.02e+05	0.72 y	1.76e+05	11.0	
24:41	6.53e+04	8.68e+04	0.75 y	1.52e+05	9.53	
25:00	6.92e+04	9.19e+04	0.75 y	1.61e+05	10.1	
25:37	3.16e+04	3.61e+04	0.88 y	6.78e+04	4.24	
25:47	4.12e+04	4.69e+04	0.88 y	8.82e+04	5.52	
25:57	3.27e+04	4.99e+04	0.66 y	8.27e+04	5.18	
26:06	1.24e+04	1.44e+04	0.86 y	2.68e+04	1.68	
26:20	1.18e+04	1.54e+04	0.77 y	2.72e+04	1.71	
26:28	1.26e+04	1.74e+04	0.72 y	3.00e+04	1.88	
26:47	2.51e+04	3.04e+04	0.82 y	5.55e+04	3.48	
27:09	1.63e+04	2.10e+04	0.78 y	3.73e+04	2.34	
27:24	2.87e+04	4.02e+04	0.71 y	6.88e+04	4.31	2,3,7,8-TCDD
27:42	1.32e+04	1.78e+04	0.74 y	3.10e+04	1.94	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 28

File: 20APR11M

S: 21 I: 1 F: 2

Acquired: 21-APR-11 04:43:45

Total Concentration: 312

Unnamed Concentration: 291.653

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:15	1.51e+06	9.44e+05	1.60 y	2.45e+06	187	
30:52	1.36e+05	8.84e+04	1.54 y	2.24e+05	17.1	
31:30	1.41e+05	8.52e+04	1.65 y	2.26e+05	17.3	
31:44	2.06e+05	1.41e+05	1.47 y	3.47e+05	26.5	
31:53	1.12e+05	6.30e+04	1.77 y	1.75e+05	13.3	
32:11	1.23e+05	7.44e+04	1.65 y	1.97e+05	15.1	
32:40	3.78e+04	2.41e+04	1.57 y	6.19e+04	4.73	
33:16	1.64e+05	1.07e+05	1.54 y	2.71e+05	20.7	1,2,3,7,8-PeCDD
33:21	4.39e+04	3.19e+04	1.38 y	7.59e+04	5.79	
33:51	3.77e+04	2.62e+04	1.44 y	6.39e+04	4.88	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 28

File: 20APR11M

S: 21 I: 1 F: 3

Acquired: 21-APR-11 04:43:45

Total Concentration: 1380

Unnamed Concentration: 1026.358

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	3.67e+06	2.81e+06	1.31 y	6.47e+06	462	
37:10	4.19e+05	3.28e+05	1.28 y	7.48e+05	53.4	
37:34	3.93e+06	3.02e+06	1.30 y	6.95e+06	496	
38:41	4.95e+05	3.56e+05	1.39 y	8.51e+05	53.8	1,2,3,4,7,8-HxCDD
38:50	1.30e+06	9.71e+05	1.34 y	2.27e+06	188	1,2,3,6,7,8-HxCDD
39:08	1.18e+05	8.94e+04	1.33 y	2.08e+05	14.8	
39:18	9.14e+05	6.87e+05	1.33 y	1.60e+06	113	1,2,3,7,8,9-HxCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 28 File: 20APR11M S: 21 I: 1 F: 1
Acquired: 21-APR-11 04:43:45

Total Concentration: 177

Unnamed Concentration: 167.416

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:03	2.03e+04	3.09e+04	0.66 y	5.12e+04	1.77	
23:25	6.98e+04	1.03e+05	0.68 y	1.73e+05	5.99	
23:49	2.45e+05	3.69e+05	0.67 y	6.14e+05	21.3	
24:12	1.84e+05	2.80e+05	0.66 y	4.65e+05	16.1	
24:26	2.04e+05	3.09e+05	0.66 y	5.13e+05	17.8	
24:44	1.25e+05	1.84e+05	0.68 y	3.09e+05	10.7	
24:51	6.33e+04	9.60e+04	0.66 y	1.59e+05	5.52	
24:58	9.74e+04	1.47e+05	0.66 y	2.44e+05	8.46	
25:19	7.99e+04	1.22e+05	0.66 y	2.01e+05	6.99	
25:26	1.39e+05	2.06e+05	0.67 y	3.45e+05	12.0	
25:33	1.75e+05	2.60e+05	0.67 y	4.34e+05	15.1	
25:46	1.28e+04	1.89e+04	0.68 y	3.17e+04	1.10	
25:55	8.97e+04	1.34e+05	0.67 y	2.23e+05	7.75	
26:08	5.02e+04	7.61e+04	0.66 y	1.26e+05	4.38	
26:18	3.38e+04	4.78e+04	0.71 y	8.16e+04	2.83	
26:32	8.27e+04	1.18e+05	0.70 y	2.01e+05	6.96	
26:39	1.16e+05	1.73e+05	0.67 y	2.89e+05	10.0	2,3,7,8-TCDF
26:59	1.42e+05	2.16e+05	0.66 y	3.58e+05	12.4	
27:12	1.46e+04	2.16e+04	0.68 y	3.62e+04	1.25	
27:52	2.91e+04	4.16e+04	0.70 y	7.07e+04	2.45	
28:04	1.81e+04	2.22e+04	0.81 y	4.03e+04	1.40	
28:30	6.35e+04	8.73e+04	0.73 y	1.51e+05	5.23	

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

Run: 28 File: 20APR11M S: 21 I: 1 F: 1
Acquired: 21-APR-11 04:43:45

Total Concentration: 147 Unnamed Concentration: 146.753

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:29	1.73e+06	1.05e+06	1.65 y	2.78e+06	147	

Totals class: Total Penta-Furans

Entry #: 44

Run: 28 File: 20APR11M S: 21 I: 1 F: 2
Acquired: 21-APR-11 04:43:45

Total Concentration: 204

Unnamed Concentration: 180.466

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:05	1.26e+05	8.82e+04	1.43 y	2.14e+05	11.3	
30:15	1.16e+06	6.81e+05	1.71 y	1.85e+06	97.6	
30:42	4.71e+04	2.95e+04	1.60 y	7.66e+04	4.05	
30:57	3.37e+05	2.09e+05	1.61 y	5.46e+05	28.9	
31:16	7.06e+04	4.61e+04	1.53 y	1.17e+05	6.17	
31:31	1.26e+05	7.82e+04	1.61 y	2.04e+05	10.5	1,2,3,7,8-PeCDF
31:51	1.69e+05	1.04e+05	1.62 y	2.73e+05	14.4	
32:04	2.40e+04	1.56e+04	1.54 y	3.97e+04	2.10	
32:42	4.16e+04	2.44e+04	1.70 y	6.60e+04	3.49	
32:52	1.52e+05	8.84e+04	1.72 y	2.41e+05	13.0	2,3,4,7,8-PeCDF
32:53	1.21e+05	8.08e+04	1.50 y	2.02e+05	10.7	
34:08	2.02e+04	1.50e+04	1.35 y	3.52e+04	1.86	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 28 File: 20APR11M
Acquired: 21-APR-11 04:43:45

S: 21 I: 1 F: 3

Total Concentration: 1500

Unnamed Concentration: 1262.506

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:23	1.32e+06	1.06e+06	1.25 y	2.38e+06	122	
35:40	5.57e+06	4.45e+06	1.25 y	1.00e+07	513	
36:13	8.27e+04	6.88e+04	1.20 y	1.52e+05	7.76	
36:30	6.44e+06	5.20e+06	1.24 y	1.16e+07	596	
37:07	1.01e+05	9.52e+04	1.07 y	1.97e+05	10.1	
37:17	1.32e+06	1.05e+06	1.26 y	2.37e+06	130	1,2,3,4,7,8-HxCDF
37:29	4.74e+05	3.58e+05	1.32 y	8.32e+05	42.3	1,2,3,6,7,8-HxCDF
37:55	4.76e+04	4.31e+04	1.10 y	9.07e+04	4.64	
38:07	9.00e+04	7.40e+04	1.22 y	1.64e+05	8.40	
38:26	5.70e+05	4.55e+05	1.25 y	1.03e+06	56.4	2,3,4,6,7,8-HxCDF
39:54	1.43e+05	1.11e+05	1.29 y	2.54e+05	11.5	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 28

File: 20APR11M

S: 21 I: 1 F: 4

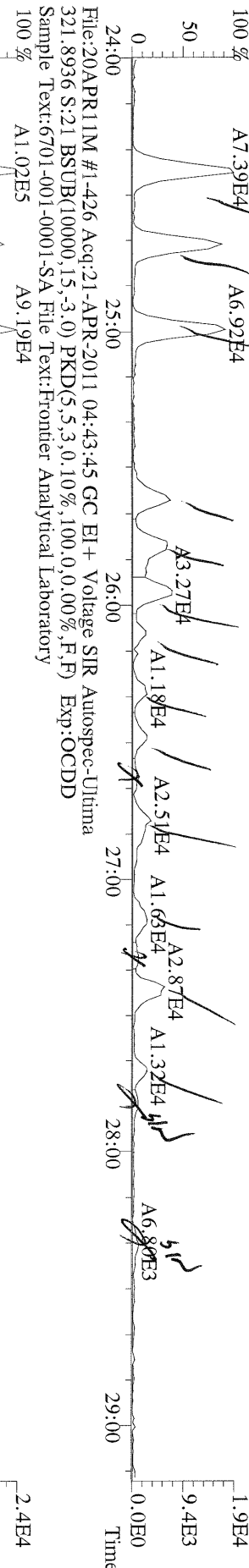
Acquired: 21-APR-11 04:43:45

Total Concentration: 4460

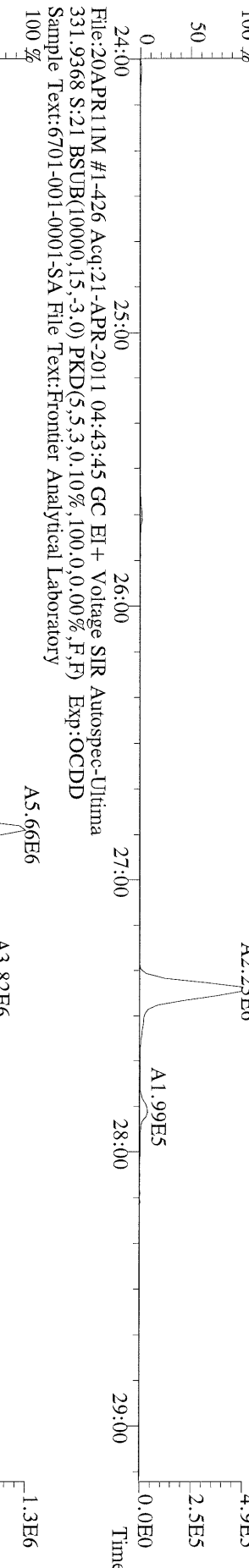
Unnamed Concentration: 3049.579

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:27	1.06e+07	1.02e+07	1.04 y	2.08e+07	1320	1,2,3,4,6,7,8-HpCDF
43:02	1.77e+05	1.81e+05	0.98 y	3.58e+05	25.3	
43:15	2.18e+07	2.10e+07	1.04 y	4.28e+07	3020	
45:15	5.67e+05	5.48e+05	1.03 y	1.11e+06	88.7	1,2,3,4,7,8,9-HpCDF

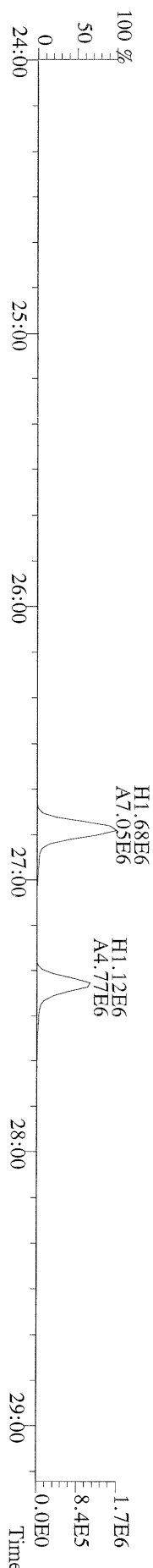
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 319.8965 S:21 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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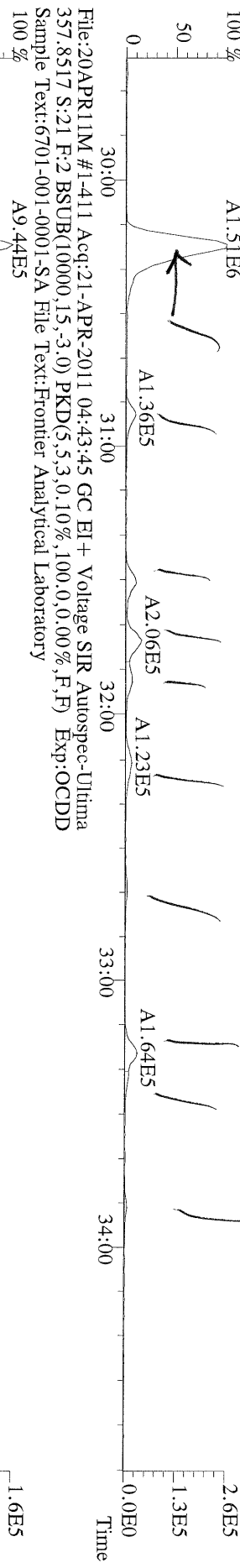
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 327.8847 S:21 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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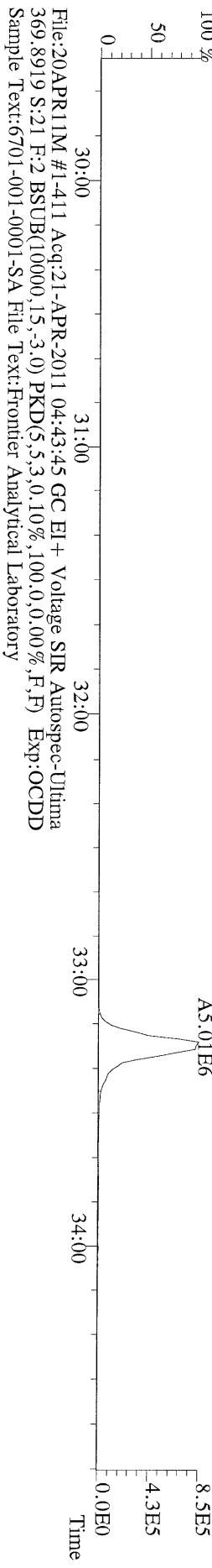
File:20APR11M #1-426 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Utima
 333.9339 S:21 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



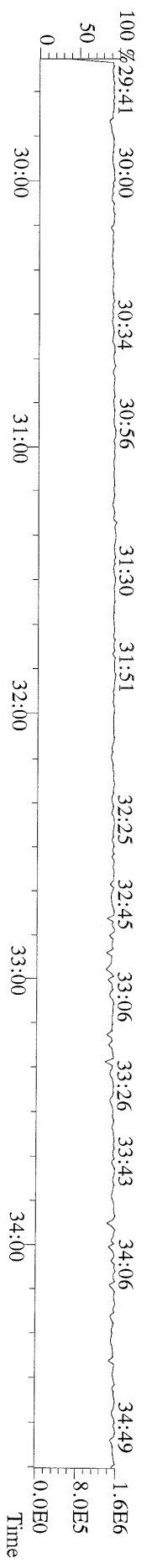
File:20APR11M #1-411 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:21 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



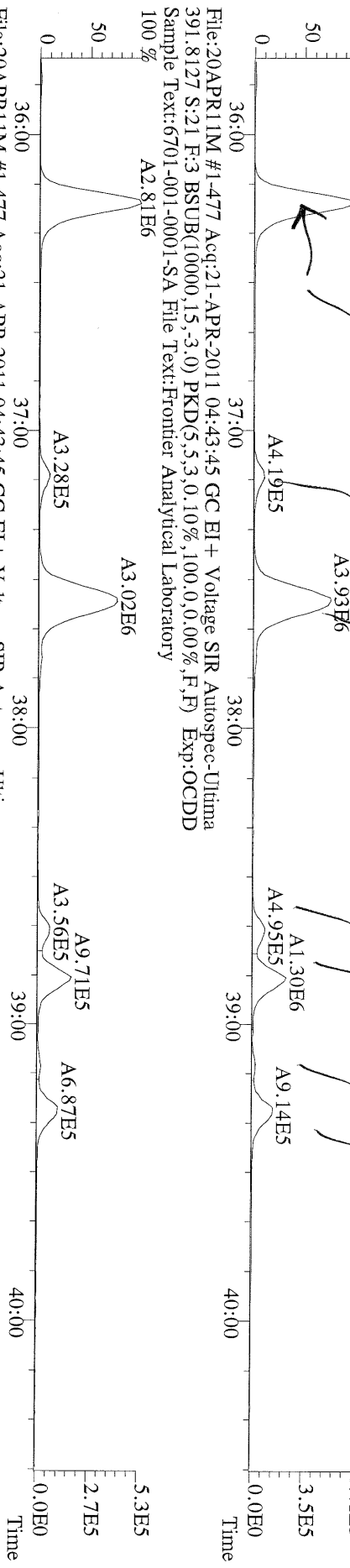
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 367.8949 S:21 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



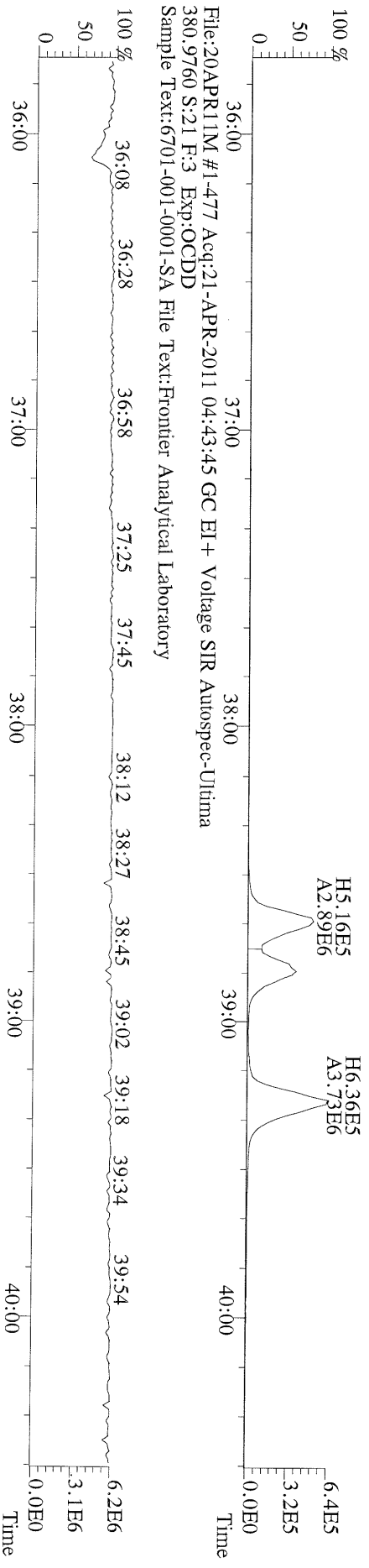
File:20APR11M #1-411 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 369.8919 S:21 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



File:20APR11M #1-477 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:21 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory

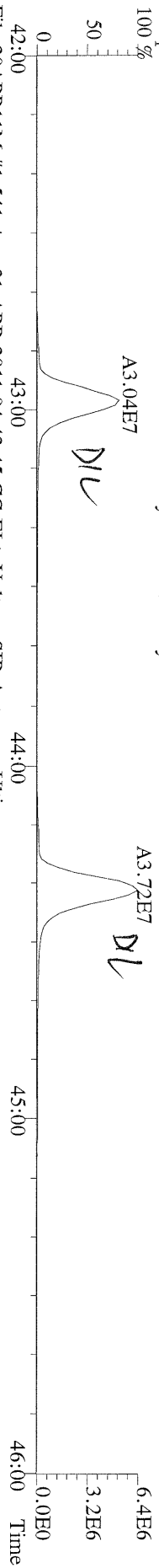


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 401.8559 S:21 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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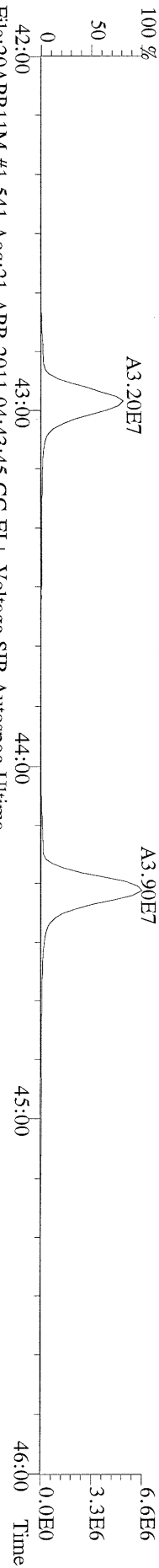


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 380.9760 S:21 F:3 Exp:OCDD
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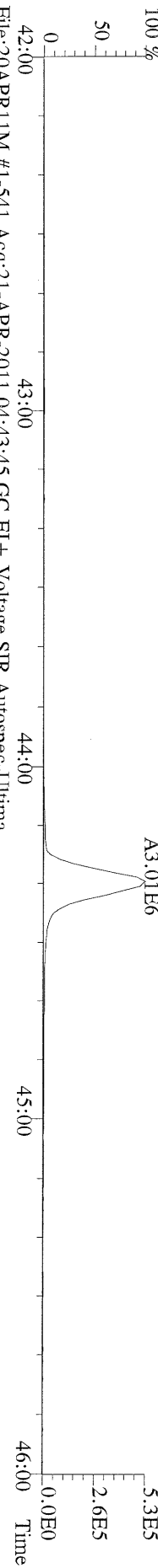
File:20APR11M #1-541 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:21 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



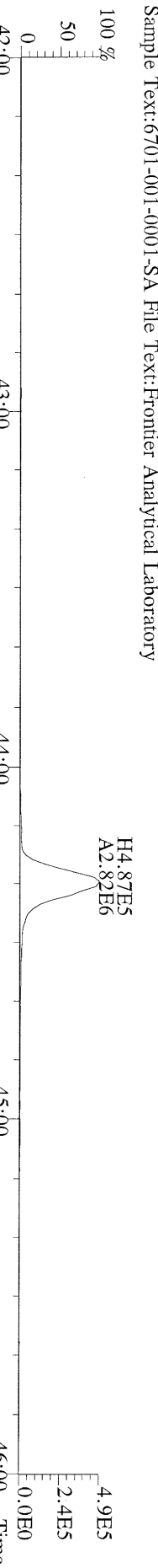
File:20APR11M #1-541 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:21 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



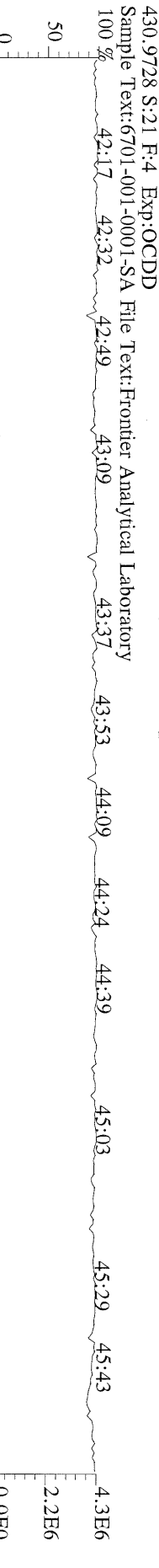
File:20APR11M #1-541 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:21 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



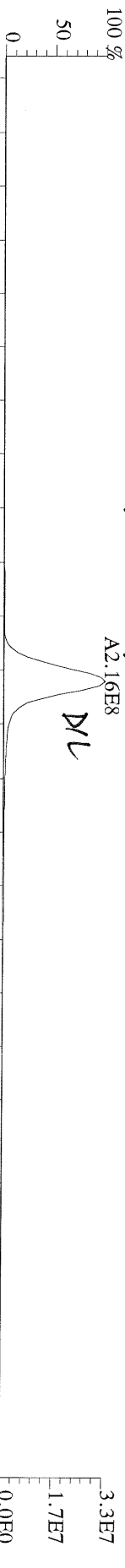
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437.8140 S:21 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



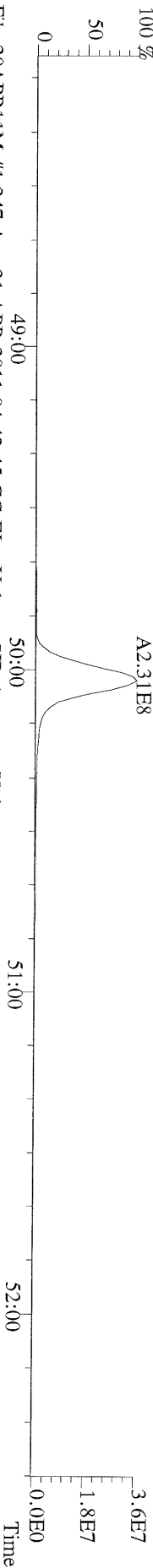
File:20APR11M #1-541 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:21 F:4 Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



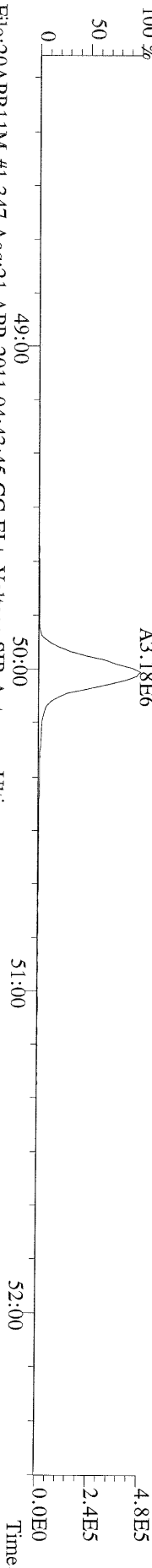
File: 20APR11M #1-347 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory
100 %



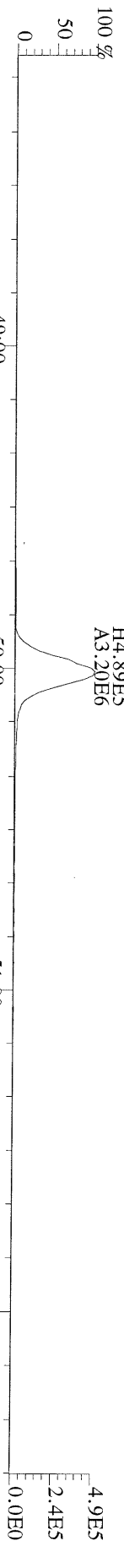
File: 20APR11M #1-347 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory
100 %



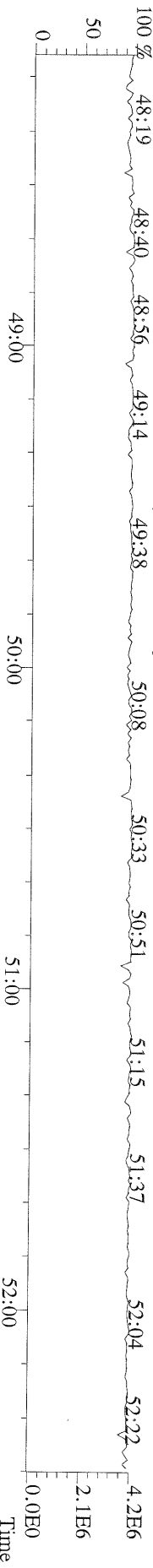
File: 20APR11M #1-347 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory
100 %



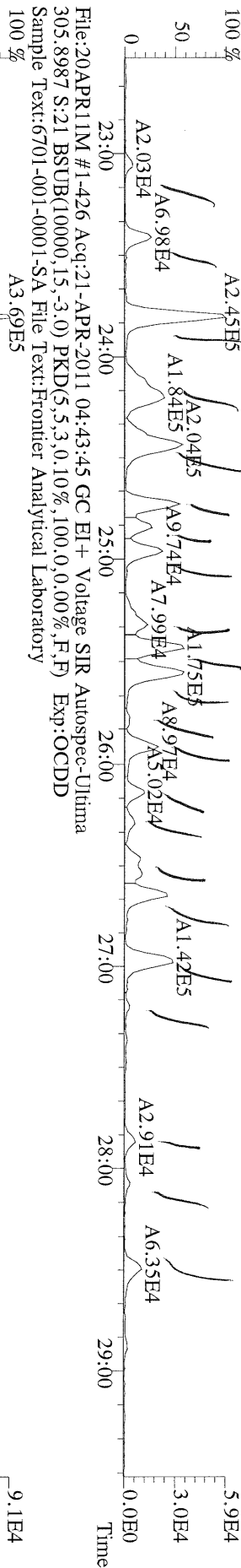
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471.7750 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



File: 20APR11M #1-347 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:21 F:5 Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



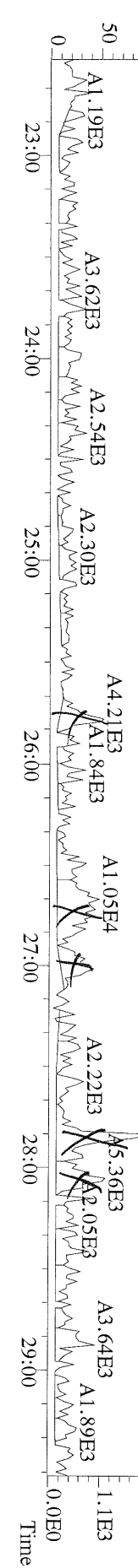
File:20APR11M #1-426 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:21 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



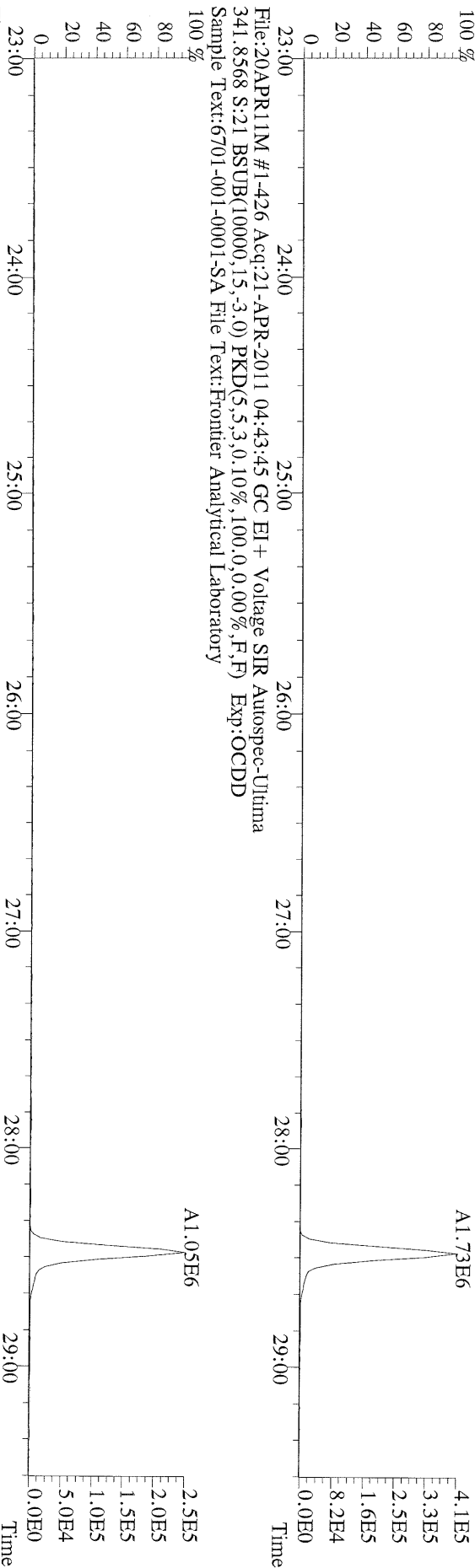
File:20APR11M #1-426 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:21 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



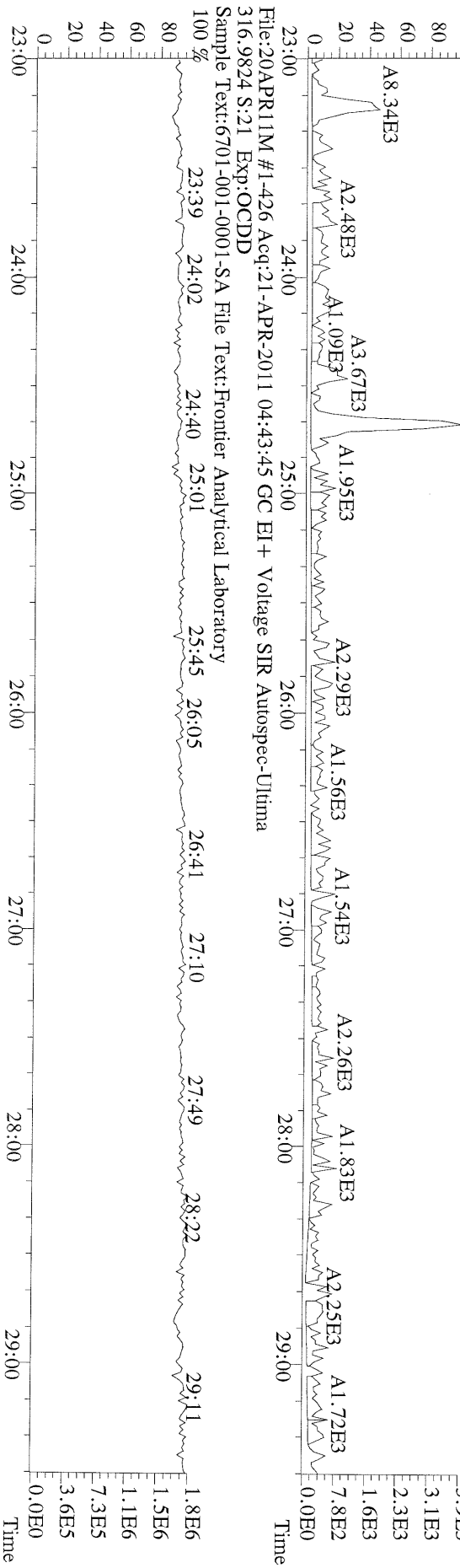
File:20APR11M #1-426 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:21 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



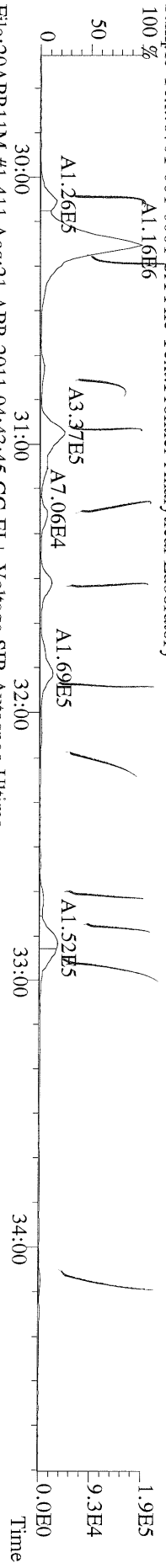
File:20APR11M #1-426 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:21 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



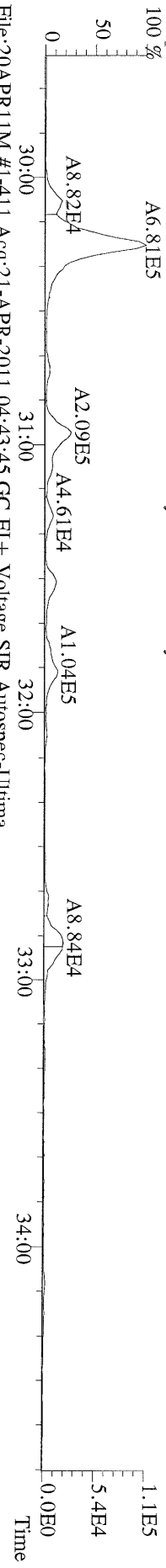
File:20APR11M #1-426 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:21 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



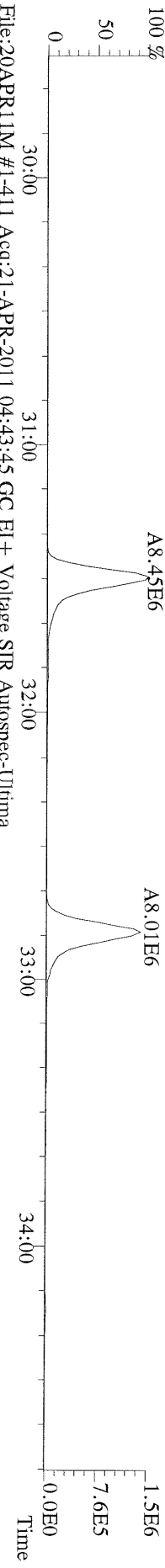
File: 20APR11M #1-411 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:21 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



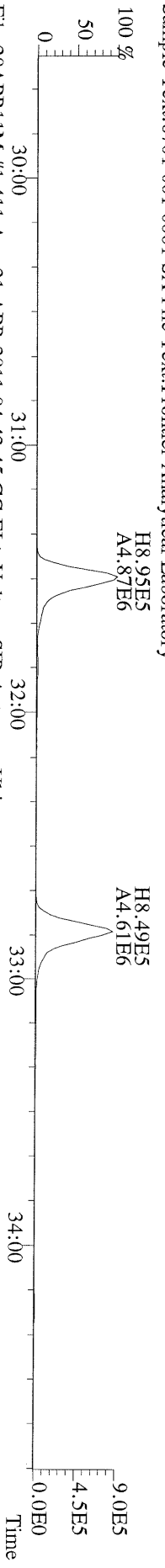
File: 20APR11M #1-411 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:21 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



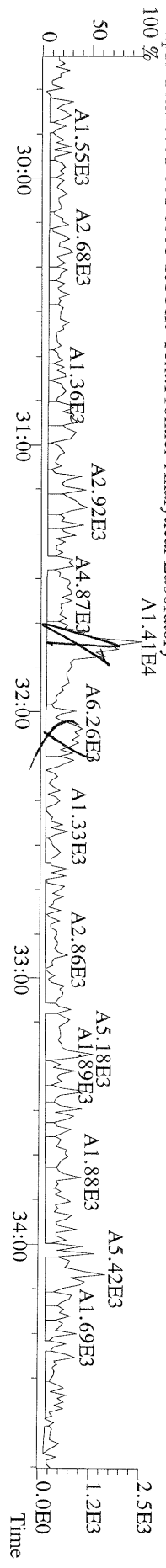
File: 20APR11M #1-411 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:21 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



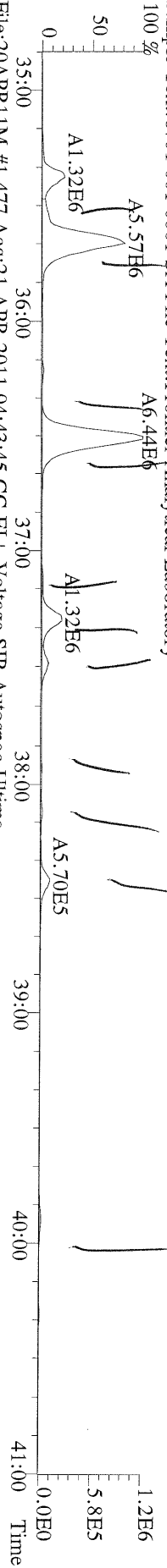
File: 20APR11M #1-411 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:21 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



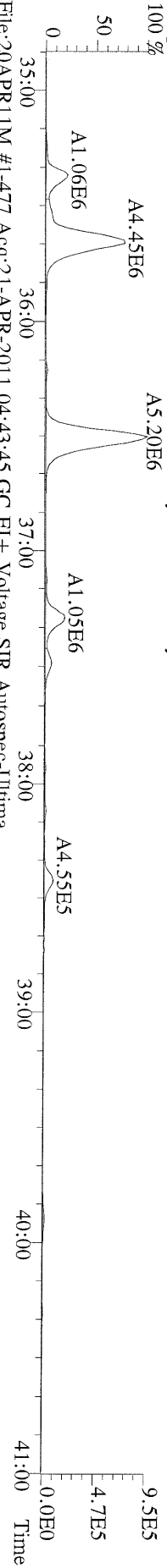
File: 20APR11M #1-411 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:21 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



File: 20APR11M #1-477 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:2.1 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
 Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



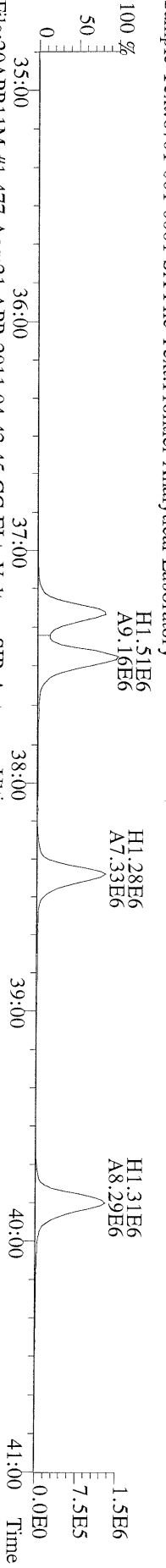
File: 20APR11M #1-477 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:2.1 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
 Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



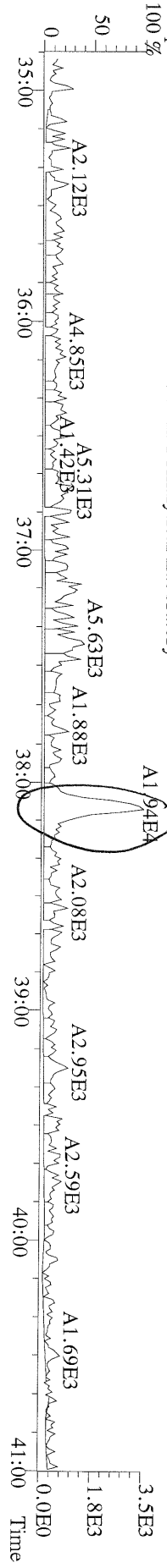
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 383.8639 S:2.1 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
 Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



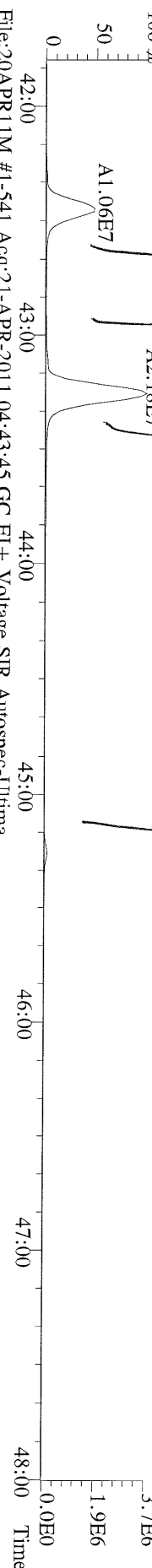
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 385.8610 S:2.1 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
 Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



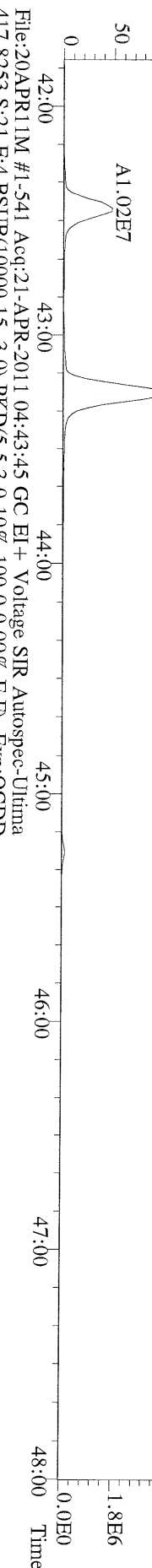
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 445.7555 S:2.1 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD
 Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



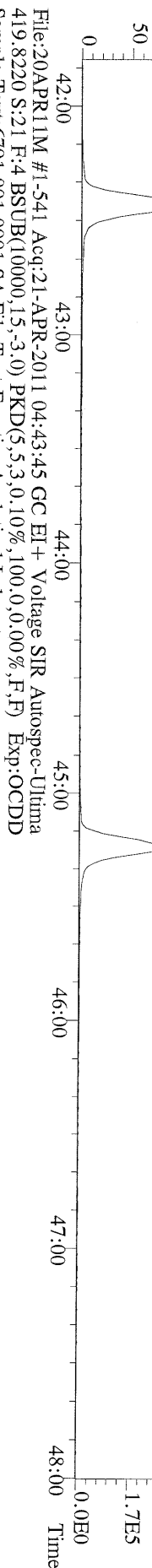
File: 20APR11M #1-541 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:21 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



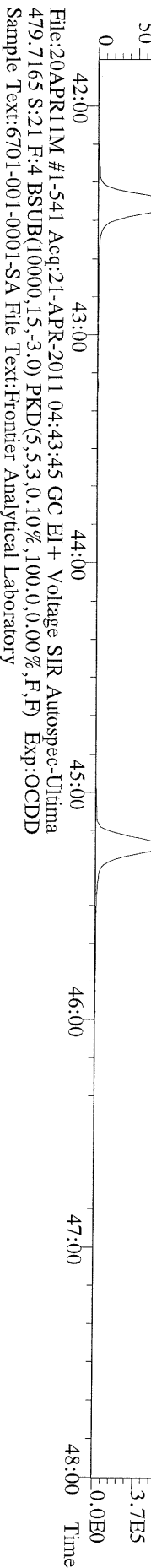
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409.7788 S:21 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



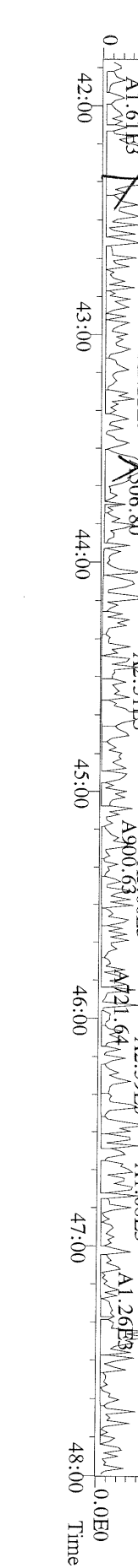
File: 20APR11M #1-541 Acq: 21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:21 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



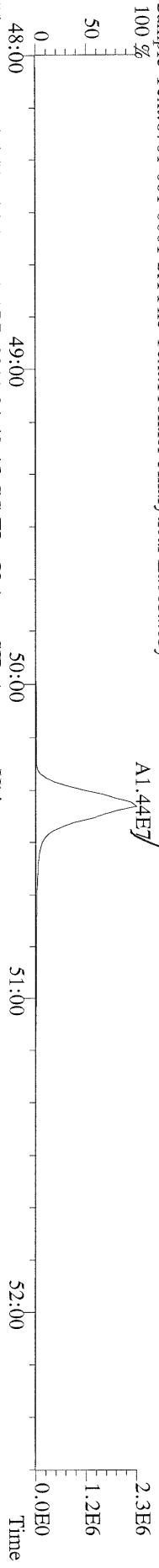
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419.8220 S:21 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



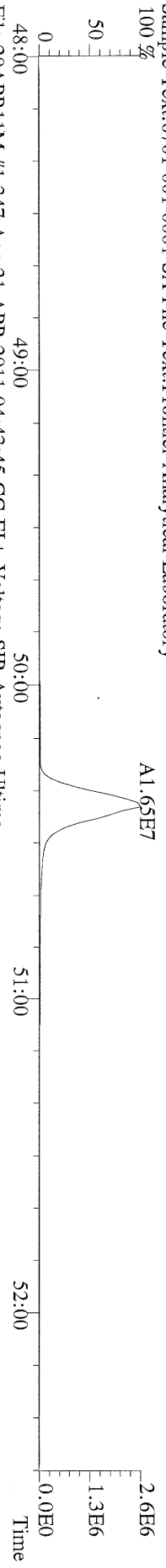
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479.7165 S:21 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



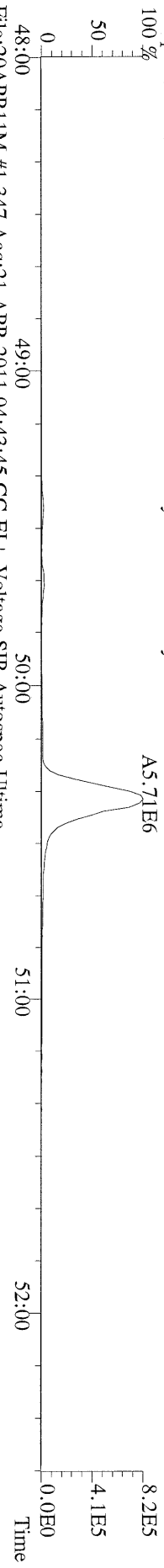
File:20APR11M #1-347 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



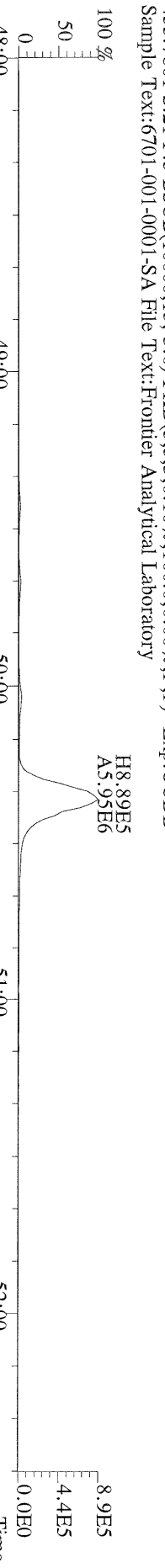
File:20APR11M #1-347 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



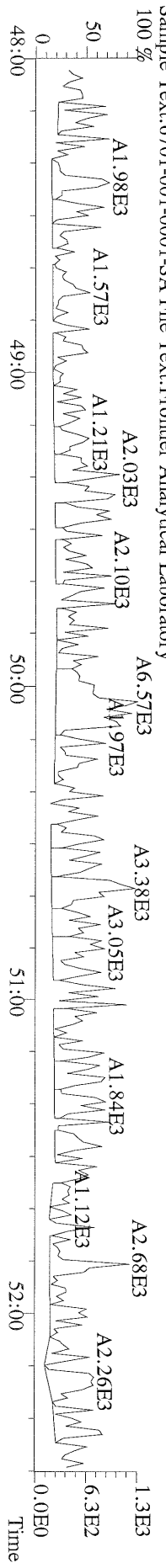
File:20APR11M #1-347 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:21-APR-2011 04:43:45 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:21 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*		2.50	-	-	*		*	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	-	-	*		*	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	-	-	*		*	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	-	-	*		*	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	-	-	*		*	
1,2,3,4,6,7,8-HpCDD	1.65e+07	0.94 y	44:11	1.30	6770		2.50	-	-	*		*	
OCDD	1.27e+08	0.92 y	49:47	1.45	68500		2.50	-	-	*		*	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	-	-	*		*	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	-	-	*		*	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	-	-	*		*	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	-	-	*		*	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	-	-	*		*	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	-	-	*		*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	-	-	*		*	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*		2.50	-	-	*		*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	-	-	*		*	
OCDF	*	* n	NotFnd	0.84	*		2.50	-	-	*		*	
13C-2,3,7,8-TCDD	*	* n	NotFnd	1.03	*							*	
13C-1,2,3,7,8-PeCDD	*	* n	NotFnd	1.01	*							*	
13C-1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.19	*							*	
13C-1,2,3,6,7,8-HxCDD	*	* n	NotFnd	0.94	*							*	
13C-1,2,3,4,6,7,8-HpCDD	1.14e+06	1.04 y	44:10	0.83	555					91.0		*	
13C-OCDD	1.56e+06	1.00 y	49:46	0.61	1030					84.5		*	
13C-2,3,7,8-TCDF	*	* n	NotFnd	0.98	*							*	
13C-1,2,3,7,8-PeCDF	*	* n	NotFnd	0.83	*							*	
13C-2,3,4,7,8-PeCDF	*	* n	NotFnd	0.80	*							*	
13C-1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.84	*							*	
13C-1,2,3,6,7,8-HxCDF	*	* n	NotFnd	2.29	*							*	
13C-2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.86	*							*	
13C-1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.98	*							*	
13C-1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	0.99	*							*	
13C-1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	0.77	*							*	
13C-OCDF	*	* n	NotFnd	1.17	*							*	
37Cl-2,3,7,8-TCDD	3.99e+05		27:21	0.73	*							*	
13C-1,2,3,4-TCDD	*	* n	NotFnd	-	*							*	
13C-1,2,3,4-TCDF	*	* n	NotFnd	-	*							*	
13C-1,2,3,7,8,9-HxCDD	1.52e+06	1.27 y	39:10	-	1.87							*	
Total Tetra-Dioxins	*		NotFnd	1.13	*		2.50	-	-	*		*	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	-	-	*		*	0
Total Hexa-Dioxins	*		NotFnd	1.46	*		2.50	-	-	*		*	0
Total Hepta-Dioxins	2.97e+07		42:49	1.30	12200		2.50	-	-	*		*	2
Total Tetra-Furans	*		NotFnd	1.15	*		2.50	-	-	*		*	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*		2.50	-	-	*	PeCDF	*	0
Total Penta-Furans	*		NotFnd	0.89	*		2.50	-	-	*	0.00	*	0
Total Hexa-Furans	*		NotFnd	1.00	*		2.50	-	-	*		*	0
Total Hepta-Furans	*		NotFnd	1.46	*		2.50	-	-	*		*	0

Analyst: 8

Date: 4/21/11

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 18

File: 20APR11M

S: 11 I: 1 F: 4

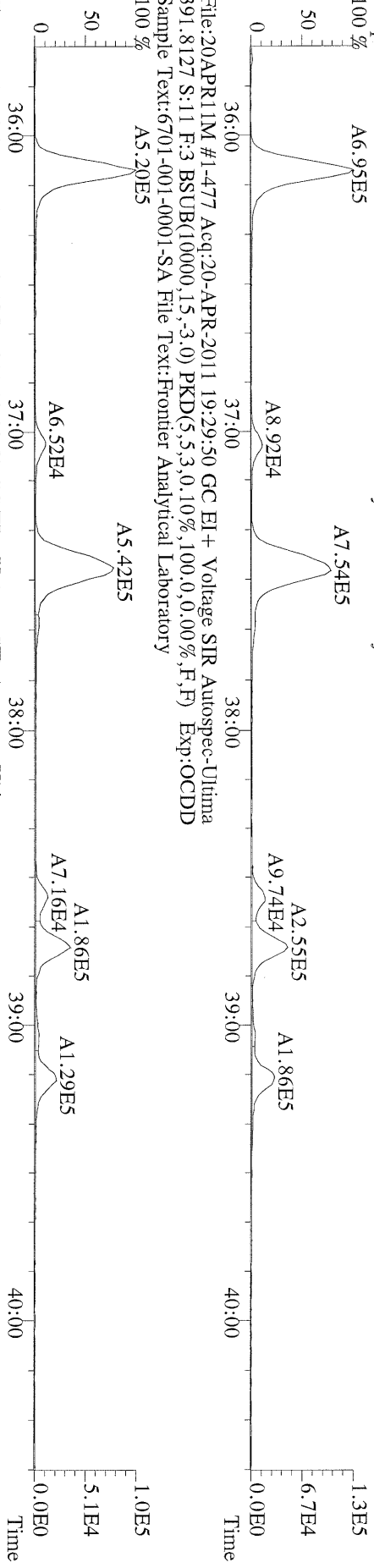
Acquired: 20-APR-11 19:29:50

Total Concentration: 12200

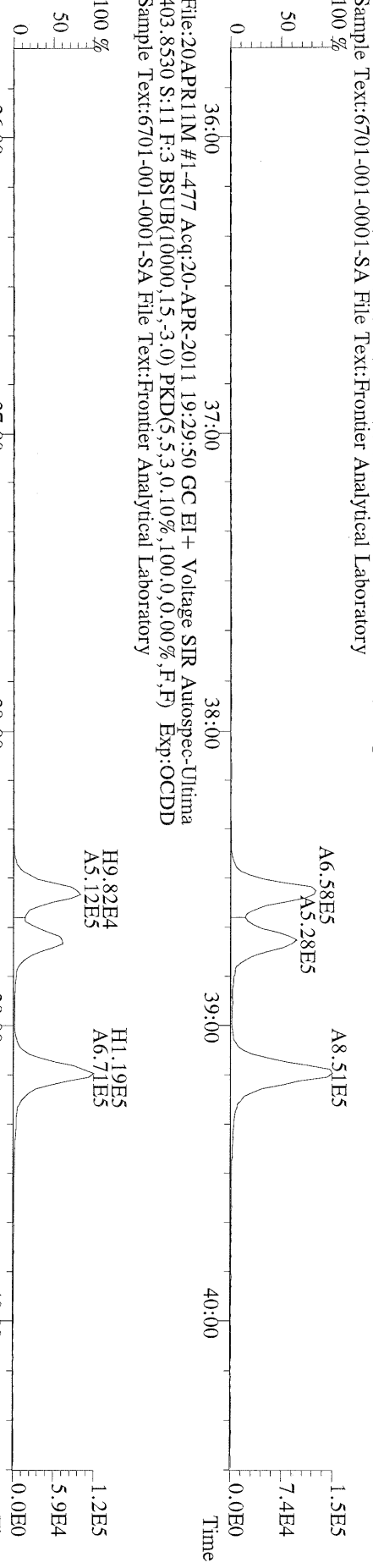
Unnamed Concentration: 5397.730

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:49	6.33e+06	6.85e+06	0.92 y	1.32e+07	5400	
44:11	8.00e+06	8.53e+06	0.94 y	1.65e+07	6770	1,2,3,4,6,7,8-HpCDD

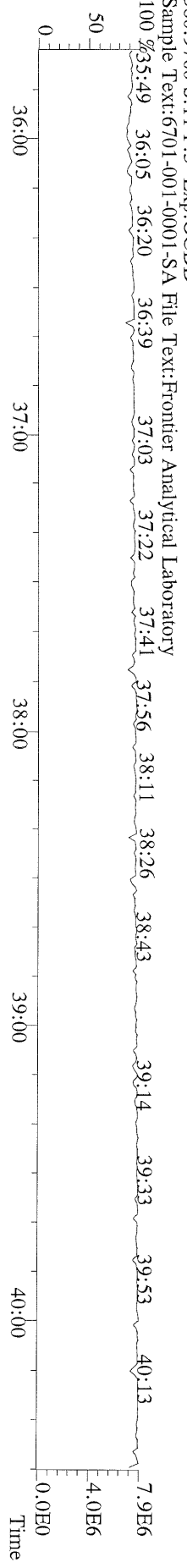
File:20APR11M #1-477 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



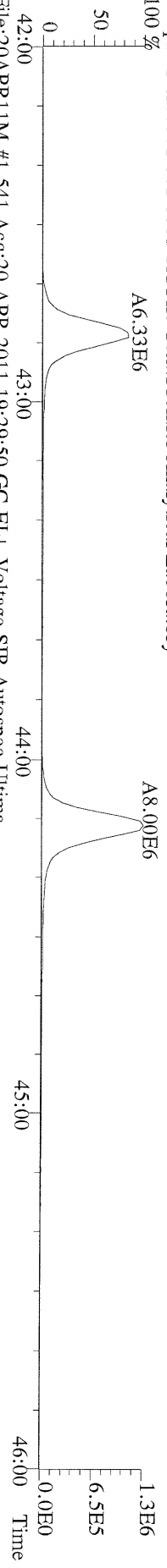
File:20APR11M #1-477 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



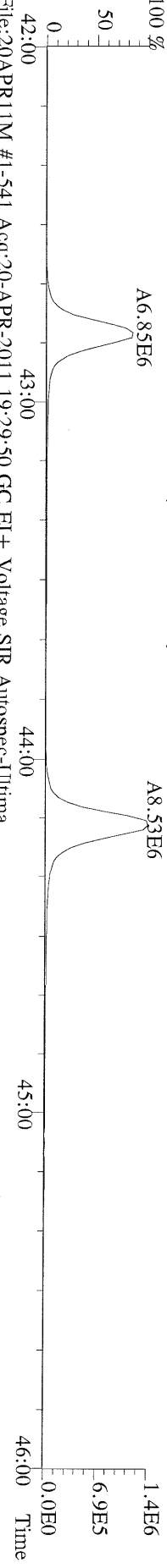
File:20APR11M #1-477 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



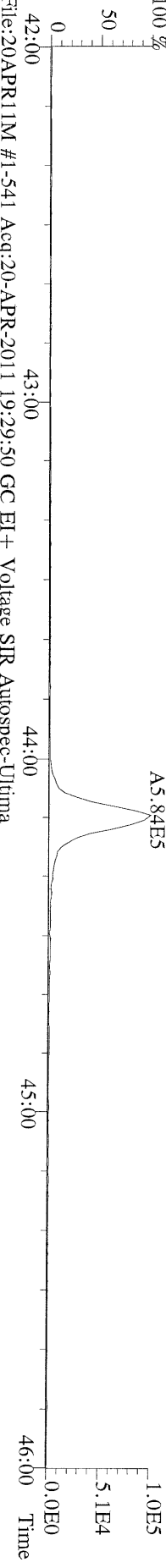
File: 20APR11M #1-541 Acq: 20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:1.1 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



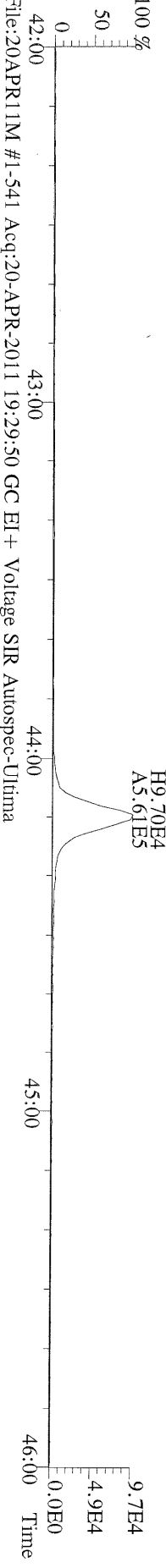
File: 20APR11M #1-541 Acq: 20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:1.1 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



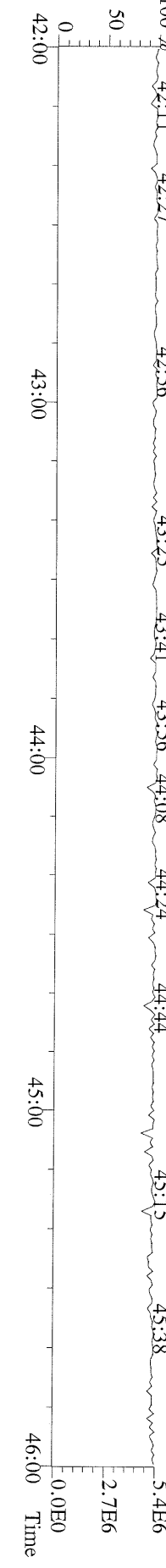
File: 20APR11M #1-541 Acq: 20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:1.1 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



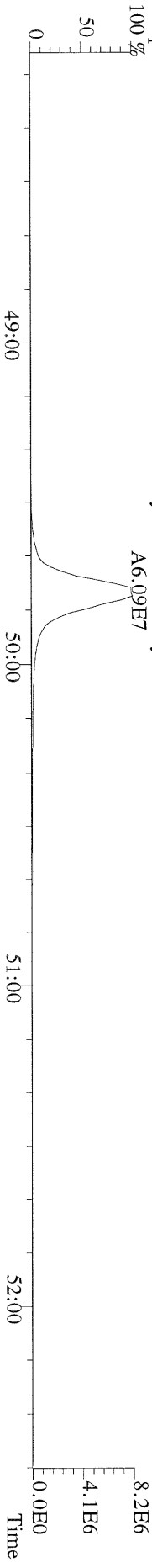
File: 20APR11M #1-541 Acq: 20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:1.1 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



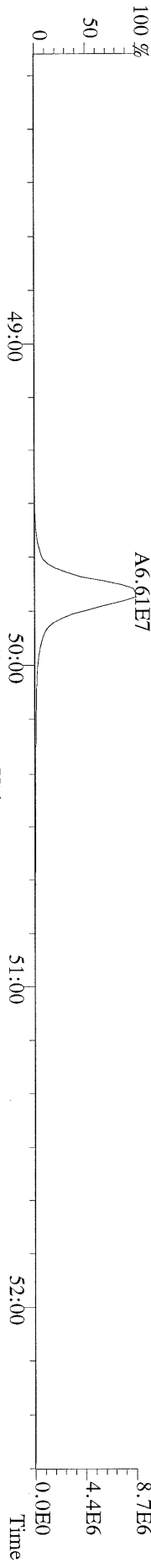
File: 20APR11M #1-541 Acq: 20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:1.1 F:4 Exp:OCDD
Sample Text: 6701-001-0001-SA File Text: Frontier Analytical Laboratory



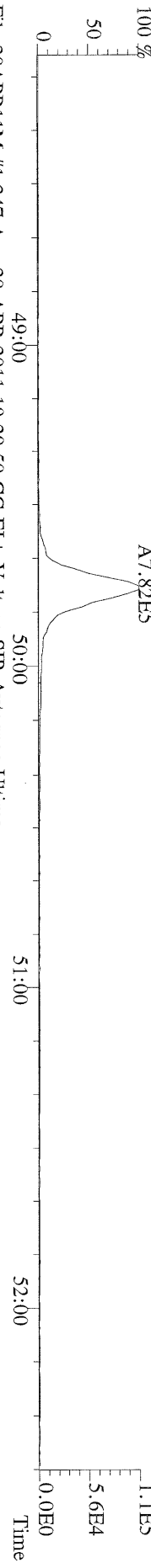
File:20APR11M #1-347 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:11 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



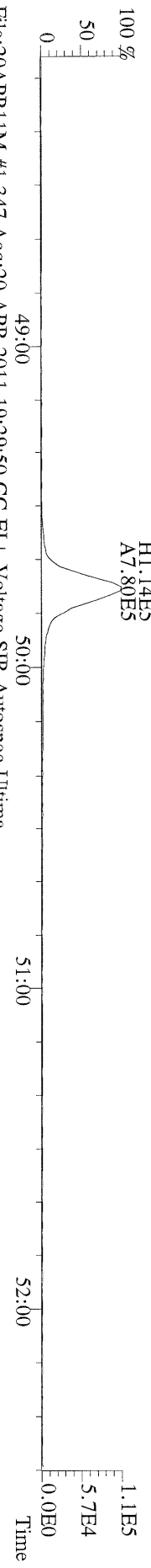
File:20APR11M #1-347 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:11 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



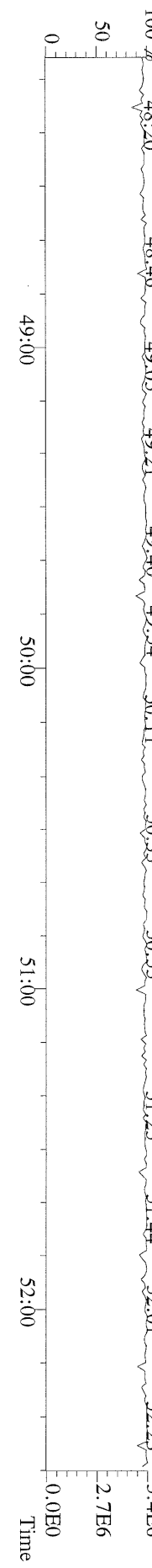
File:20APR11M #1-347 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:11 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:20APR11M #1-347 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:11 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %




File:20APR11M #1-347 Acq:20-APR-2011 19:29:50 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:11 F:5 Exp:OCDD
Sample Text:6701-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



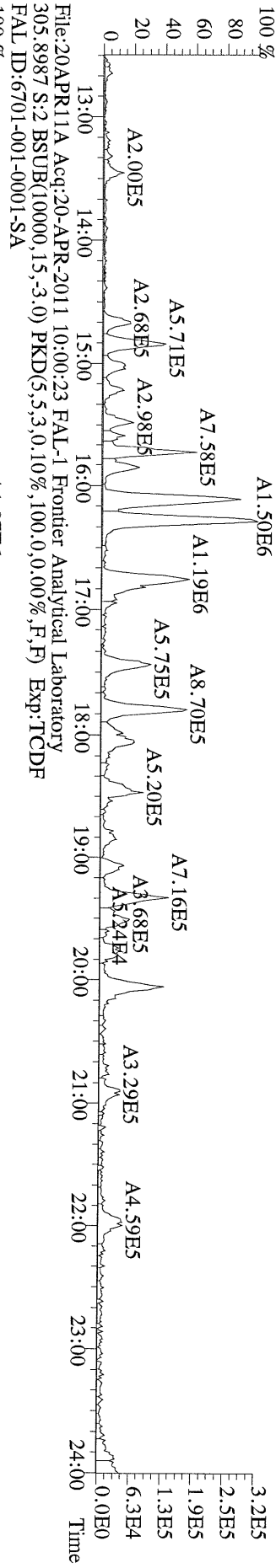
FAL ID: 6701-001-0001-SA Filename: 20APR11A Sam:2 Acquired: 20-APR-11 10:00:23 ICal: TCDFFAL1-2-18-11
Client ID: LL-SED1-0-15-032911 ConCal: ST042011A1 EndCal: ST042011A2
Results: 6701TCDF GC Column: DB225 Amount: 3.280 /

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	#Hom	Rec
2,3,7,8-TCDF	1.67e+06	0.75 y	19:20	1.16	8.37		2.50	-	-	1	
13C-2,3,7,8-TCDF	1.05e+08	0.79 y	19:19	1.05	448						73.5
13C-1,2,3,4-TCDF	1.36e+08	0.78 y	16:45	-	23.4						

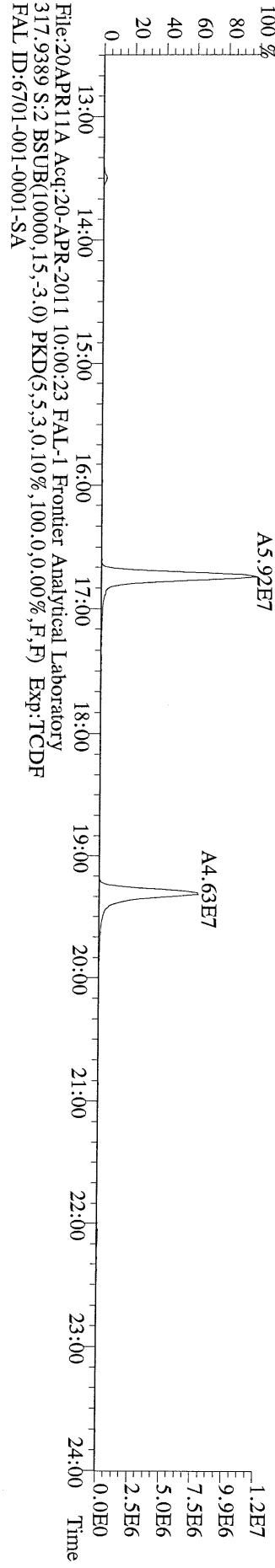
Analyst: 

Date: 

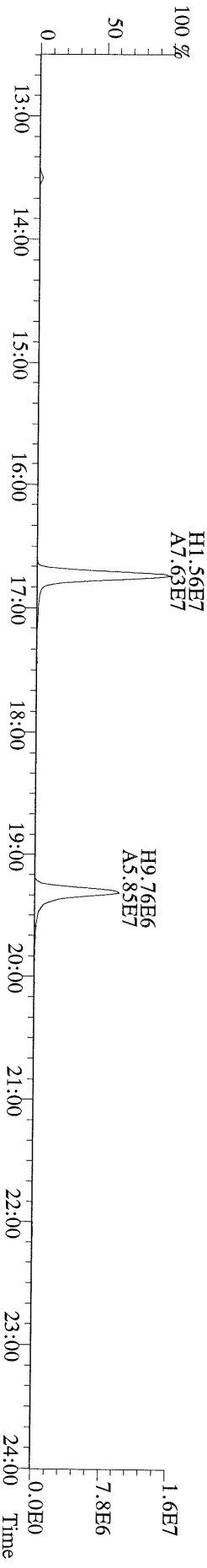
File:20APR11A Acq:20-APR-2011 10:00:23 FAL-1 Frontier Analytical Laboratory
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:TCDF
FAL ID:6701-001-0001-SA



File:20APR11A Acq:20-APR-2011 10:00:23 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:6701-001-0001-SA



File:20APR11A Acq:20-APR-2011 10:00:23 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:6701-001-0001-SA



217
122 *DN*
4/21/11

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	1.06e+05	0.85 y	27:23	1.13	4.80		2.50	-	*		
1,2,3,7,8-PeCDD	4.68e+05	1.47 y	33:14	1.02	25.7		2.50	-	*		
1,2,3,4,7,8-HxCDD	1.34e+06	1.37 y	38:38	1.45	60.3		2.50	-	*		
1,2,3,6,7,8-HxCDD	3.86e+06	1.36 y	38:48	1.45	217		2.50	-	*		
1,2,3,7,8,9-HxCDD	2.73e+06	1.35 y	39:15	1.47	135		2.50	-	*		
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.30	* 7,500 *		2.50	-	*		
OCDD	*	* n	NotFnd	1.45	* 67,100 *		2.50	-	*		
2,3,7,8-TCDF	5.01e+05	0.71 y	26:38	1.15	13.3 <i>10,700</i>		2.50	-	*		
1,2,3,7,8-PeCDF	2.95e+05	1.64 y	31:30	0.89	11.3		2.50	-	*		
2,3,4,7,8-PeCDF	4.77e+05	1.73 y	32:50	0.89	18.5		2.50	-	*		
1,2,3,4,7,8-HxCDF	3.57e+06	1.29 y	37:15	1.01	139		2.50	-	*		
1,2,3,6,7,8-HxCDF	1.36e+06	1.29 y	37:26	0.89	49.0		2.50	-	*		
2,3,4,6,7,8-HxCDF	1.69e+06	1.28 y	38:22	1.02	64.4		2.50	-	*		
1,2,3,7,8,9-HxCDF	3.89e+05	1.20 y	39:51	1.10	12.2		2.50	-	*		
1,2,3,4,6,7,8-HpCDF	3.38e+07	1.04 y	42:22	1.48	1480		2.50	-	*		
1,2,3,4,7,8,9-HpCDF	1.69e+06	1.06 y	45:10	1.43	92.6		2.50	-	*		
OCDF	5.13e+07	0.88 y	50:16	0.84	4050		2.50	-	*		
13C-2,3,7,8-TCDD	1.29e+07	0.81 y	27:22	1.03	611					92.0	
13C-1,2,3,7,8-PeCDD	1.19e+07	1.75 y	33:13	1.01	574					86.5	
13C-1,2,3,4,7,8-HxCDD	1.02e+07	1.32 y	38:36	1.19	586					88.2	
13C-1,2,3,6,7,8-HxCDD	8.15e+06	1.25 y	38:46	0.94	596					89.7	
13C-1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	0.83	*	*			*	* 126	
13C-OCDD	*	* n	NotFnd	0.61	*	*			*	* 116	
13C-2,3,7,8-TCDF	2.18e+07	0.87 y	26:37	0.98	612					92.1	
13C-1,2,3,7,8-PeCDF	1.97e+07	1.72 y	31:28	0.83	651					98.0	
13C-2,3,4,7,8-PeCDF	1.92e+07	1.71 y	32:47	0.80	658					99.0	
13C-1,2,3,4,7,8-HxCDF	1.70e+07	0.48 y	37:13	1.84	631					95.0	
13C-1,2,3,6,7,8-HxCDF	2.06e+07	0.48 y	37:25	2.29	617					92.8	
13C-2,3,4,6,7,8-HxCDF	1.71e+07	0.48 y	38:20	1.86	631					94.9	
13C-1,2,3,7,8,9-HxCDF	1.92e+07	0.48 y	39:46	1.98	662					99.7	
13C-1,2,3,4,6,7,8-HpCDF	1.02e+07	0.43 y	42:21	0.99	710					107	
13C-1,2,3,4,7,8,9-HpCDF	8.50e+06	0.43 y	45:09	0.77	760					114	
13C-OCDF	2.00e+07	0.94 y	50:15	1.17	1170					88.3	
37Cl-2,3,7,8-TCDD	3.38e+06		27:23	0.73	226					84.9	
13C-1,2,3,4-TCDD	1.36e+07	0.81 y	26:48	-	11.9						
13C-1,2,3,4-TCDF	2.42e+07	0.86 y	25:33	-	11.2						
13C-1,2,3,7,8,9-HxCDD	9.70e+06	1.28 y	39:13	-	13.0						
Total Tetra-Dioxins	1.73e+06		24:24	1.13	78.7		2.50	-	*		14
Total Penta-Dioxins	7.35e+06		30:13	1.02	403		2.50	-	*		10
Total Hexa-Dioxins	3.18e+07		36:10	1.46	1600		2.50	-	*		8
Total Hepta-Dioxins	*		NotFnd	1.30	* 13,200 *		2.50	-	*		0
Total Tetra-Furans	8.63e+06		23:03	1.15	229		2.50	-	*		20
1st Fn. Tot Penta-Furans	4.66e+06		28:27	0.89	179		2.50	-	*	PeCDF 1	4/21/11
Total Penta-Furans	6.33e+06		30:04	0.89	243		2.50	-	*	423 <i>DN</i>	11
Total Hexa-Furans	4.65e+07		35:18	1.00	1680	D,M	2.50	-	*	422	11
Total Hepta-Furans	9.82e+07		42:22	1.46	4630		2.50	-	*		4

Analyst: J

Date: 4/21/11

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 26

File: 20APR11M

S: 22 I: 1 F: 1

Acquired: 21-APR-11 05:39:08

Total Concentration: 78.7

Unnamed Concentration: 73.946

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:24	1.17e+05	1.72e+05	0.68 y	2.89e+05	13.1	
24:40	1.16e+05	1.51e+05	0.77 y	2.68e+05	12.1	
24:59	1.35e+05	1.74e+05	0.77 y	3.09e+05	14.0	
25:36	6.90e+04	8.57e+04	0.80 y	1.55e+05	7.02	
25:46	6.20e+04	7.65e+04	0.81 y	1.39e+05	6.29	
25:56	5.69e+04	6.92e+04	0.82 y	1.26e+05	5.73	
26:05	2.06e+04	2.45e+04	0.84 y	4.51e+04	2.04	
26:18	2.21e+04	2.59e+04	0.86 y	4.80e+04	2.18	
26:28	1.91e+04	2.62e+04	0.73 y	4.53e+04	2.05	
26:47	3.75e+04	4.54e+04	0.83 y	8.29e+04	3.76	
27:08	3.16e+04	3.63e+04	0.87 y	6.79e+04	3.08	
27:16	5.45e+03	7.85e+03	0.69 y	1.33e+04	0.604	
27:23	4.85e+04	5.73e+04	0.85 y	1.06e+05	4.80	2,3,7,8-TCDD
27:41	1.76e+04	2.40e+04	0.73 y	4.16e+04	1.89	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 26 File: 20APR11M S: 22 I: 1 F: 2
Acquired: 21-APR-11 05:39:08

Total Concentration: 403

Unnamed Concentration: 377.715

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:13	2.79e+06	1.77e+06	1.58 y	4.56e+06	250	
30:51	2.56e+05	1.67e+05	1.53 y	4.23e+05	23.2	
31:29	2.30e+05	1.43e+05	1.61 y	3.73e+05	20.5	
31:42	3.65e+05	2.29e+05	1.59 y	5.95e+05	32.6	
31:51	1.75e+05	1.06e+05	1.64 y	2.81e+05	15.4	
32:09	2.23e+05	1.30e+05	1.72 y	3.53e+05	19.4	
32:37	5.31e+04	3.19e+04	1.66 y	8.50e+04	4.67	
33:14	2.78e+05	1.89e+05	1.47 y	4.68e+05	25.7	1,2,3,7,8-PeCDD
33:20	6.60e+04	4.42e+04	1.49 y	1.10e+05	6.05	
33:48	5.96e+04	4.13e+04	1.44 y	1.01e+05	5.54	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 26

File: 20APR11M

S: 22 I: 1 F: 3

Acquired: 21-APR-11 05:39:08

Total Concentration: 1600

Unnamed Concentration: 1188.707

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:10	6.04e+06	4.54e+06	1.33 y	1.06e+07	526	
37:05	6.16e+05	4.80e+05	1.28 y	1.10e+06	54.5	
37:32	6.56e+06	4.93e+06	1.33 y	1.15e+07	572	
37:43	2.05e+05	1.59e+05	1.28 y	3.64e+05	18.1	
38:38	7.74e+05	5.65e+05	1.37 y	1.34e+06	60.3	1,2,3,4,7,8-HxCDD
38:48	2.23e+06	1.63e+06	1.36 y	3.86e+06	217	1,2,3,6,7,8-HxCDD
39:05	2.01e+05	1.61e+05	1.25 y	3.62e+05	18.0	
39:15	1.57e+06	1.16e+06	1.35 y	2.73e+06	135	1,2,3,7,8,9-HxCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 26 File: 20APR11M S: 22 I: 1 F: 1
Acquired: 21-APR-11 05:39:08

Total Concentration: 229

Unnamed Concentration: 215.645

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:03	3.97e+04	4.97e+04	0.80 y	8.94e+04	2.37	
23:24	1.11e+05	1.58e+05	0.70 y	2.68e+05	7.13	
23:47	3.80e+05	5.68e+05	0.67 y	9.48e+05	25.2	
24:11	3.19e+05	4.83e+05	0.66 y	8.02e+05	21.3	
24:26	3.85e+05	5.57e+05	0.69 y	9.41e+05	25.0	
24:43	2.14e+05	3.26e+05	0.66 y	5.40e+05	14.3	
24:49	1.37e+05	2.07e+05	0.66 y	3.44e+05	9.14	
24:57	1.99e+05	2.73e+05	0.73 y	4.71e+05	12.5	
25:19	1.49e+05	2.03e+05	0.73 y	3.52e+05	9.33	
25:25	2.37e+05	3.61e+05	0.65 y	5.98e+05	15.9	
25:33	2.98e+05	4.46e+05	0.67 y	7.44e+05	19.8	
25:54	1.58e+05	2.14e+05	0.74 y	3.73e+05	9.89	
26:07	9.11e+04	1.30e+05	0.70 y	2.21e+05	5.86	
26:16	5.79e+04	7.00e+04	0.83 y	1.28e+05	3.40	
26:31	1.27e+05	1.86e+05	0.68 y	3.14e+05	8.33	
26:38	2.08e+05	2.93e+05	0.71 y	5.01e+05	13.3	2,3,7,8-TCDF
26:57	2.78e+05	4.00e+05	0.69 y	6.78e+05	18.0	
27:11	2.12e+04	2.56e+04	0.83 y	4.68e+04	1.24	
27:52	3.10e+04	3.94e+04	0.79 y	7.04e+04	1.87	
28:28	9.19e+04	1.04e+05	0.88 y	1.96e+05	5.21	

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

Run: 26 File: 20APR11M S: 22 I: 1 F: 1
Acquired: 21-APR-11 05:39:08

Total Concentration: 179 Unnamed Concentration: 179.314

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
28:27	2.88e+06	1.78e+06 1.62 y	4.66e+06	179	

Totals class: Total Penta-Furans

Entry #: 44

Run: 26

File: 20APR11M

S: 22 I: 1 F: 2

Acquired: 21-APR-11 05:39:08

Total Concentration: 243

Unnamed Concentration: 213.453

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:04	2.82e+05	1.73e+05	1.63 y	4.56e+05	17.5	
30:13	1.86e+06	1.12e+06	1.66 y	2.98e+06	115	
30:42	8.33e+04	5.26e+04	1.58 y	1.36e+05	5.22	
30:56	5.48e+05	3.29e+05	1.66 y	8.77e+05	33.7	
31:14	1.28e+05	8.14e+04	1.58 y	2.10e+05	8.06	
31:30	1.83e+05	1.12e+05	1.64 y	2.95e+05	11.3	1,2,3,7,8-PeCDF
31:49	2.75e+05	1.72e+05	1.60 y	4.48e+05	17.2	
32:40	7.39e+04	4.90e+04	1.51 y	1.23e+05	4.72	
32:50	3.03e+05	1.75e+05	1.73 y	4.77e+05	18.5	2,3,4,7,8-PeCDF
32:52	1.74e+05	1.14e+05	1.53 y	2.88e+05	11.1	
34:07	2.18e+04	1.46e+04	1.49 y	3.64e+04	1.40	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 26

File: 20APR11M

S: 22 I: 1 F: 3

Acquired: 21-APR-11 05:39:08

Total Concentration: 1680

Unnamed Concentration: 1419.754

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:18	2.39e+06	1.92e+06	1.24 y	4.32e+06	155	
35:35	9.72e+06	7.64e+06	1.27 y	1.74e+07	624	
36:10	1.74e+05	1.33e+05	1.31 y	3.07e+05	11.0	
36:27	9.51e+06	7.43e+06	1.28 y	1.69e+07	609	
37:05	1.44e+05	1.12e+05	1.29 y	2.56e+05	9.21	
37:15	2.01e+06	1.56e+06	1.29 y	3.57e+06	139	1,2,3,4,7,8-HxCDF
37:26	7.64e+05	5.92e+05	1.29 y	1.36e+06	49.0	1,2,3,6,7,8-HxCDF
37:54	8.64e+04	7.16e+04	1.21 y	1.58e+05	5.68	
38:06	8.52e+04	7.69e+04	1.11 y	1.62e+05	5.83	
38:22	9.50e+05	7.39e+05	1.28 y	1.69e+06	64.4	2,3,4,6,7,8-HxCDF
39:51	2.12e+05	1.77e+05	1.20 y	3.89e+05	12.2	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 26

File: 20APR11M

S: 22 I: 1 F: 4

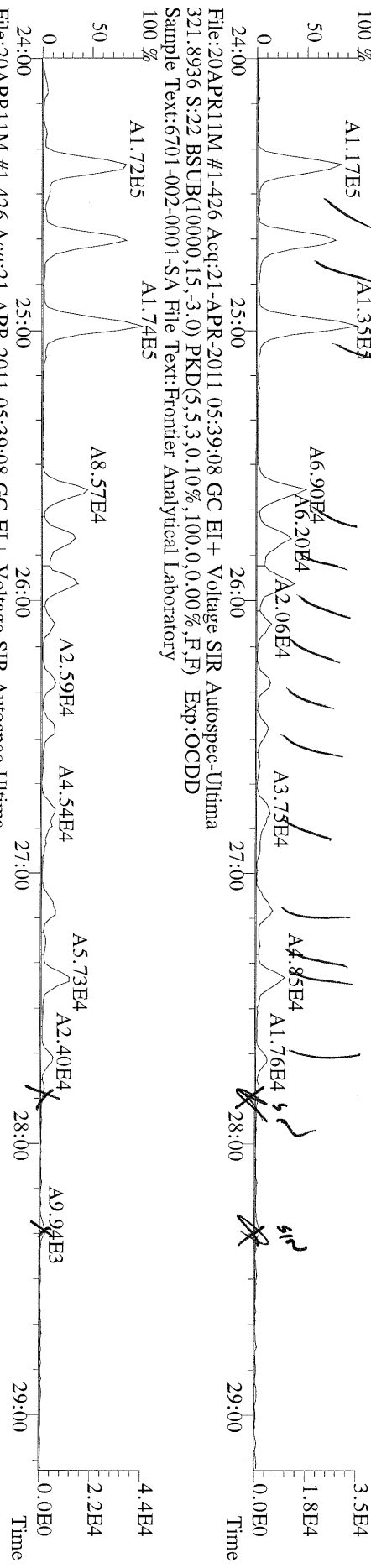
Acquired: 21-APR-11 05:39:08

Total Concentration: 4630

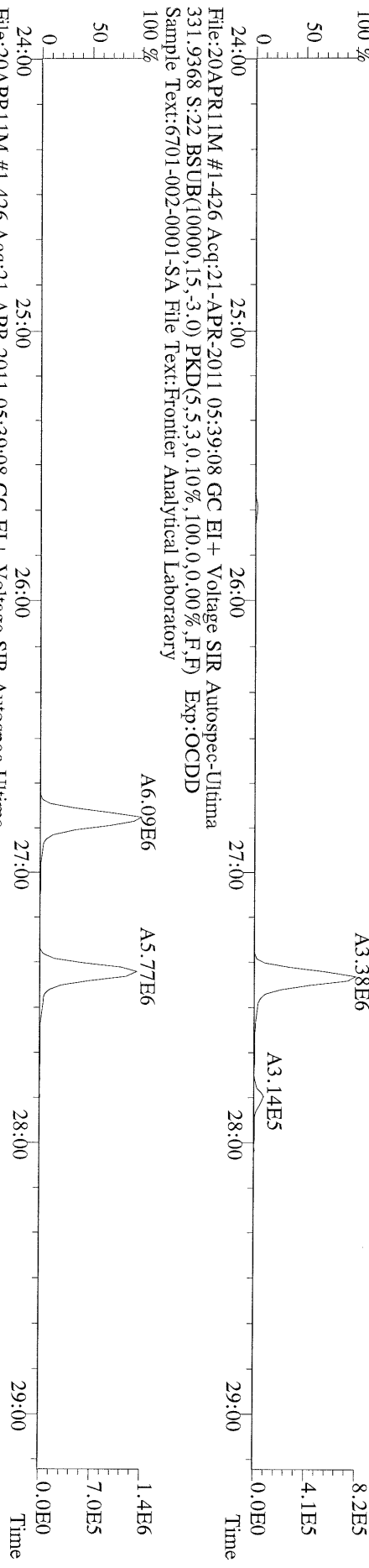
Unnamed Concentration: 3051.959

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:22	1.72e+07	1.66e+07	1.04 y	3.38e+07	1480	1,2,3,4,6,7,8-HpCDF
42:54	1.92e+05	1.79e+05	1.07 y	3.70e+05	18.0	
43:10	3.19e+07	3.04e+07	1.05 y	6.23e+07	3030	
45:10	8.69e+05	8.20e+05	1.06 y	1.69e+06	92.6	1,2,3,4,7,8,9-HpCDF

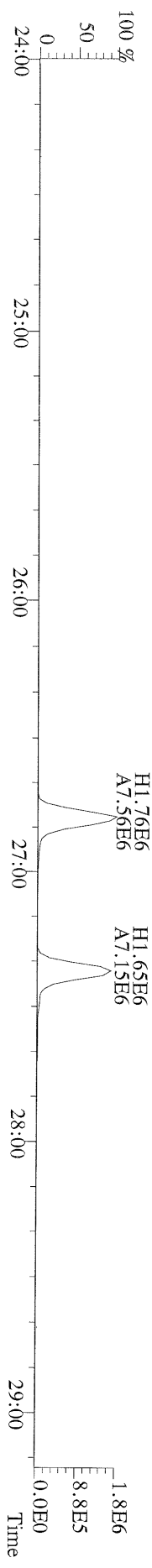
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319.8965 S:22 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



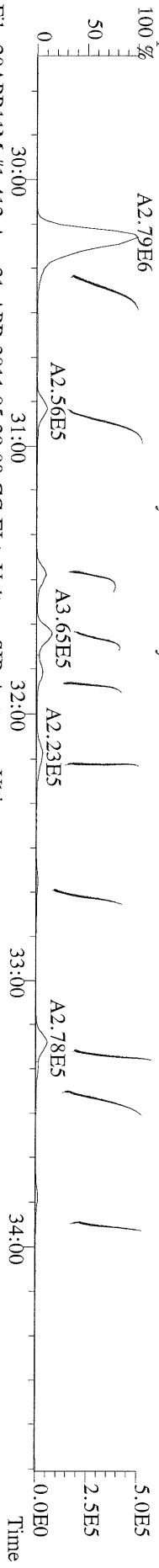
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327.8847 S:22 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



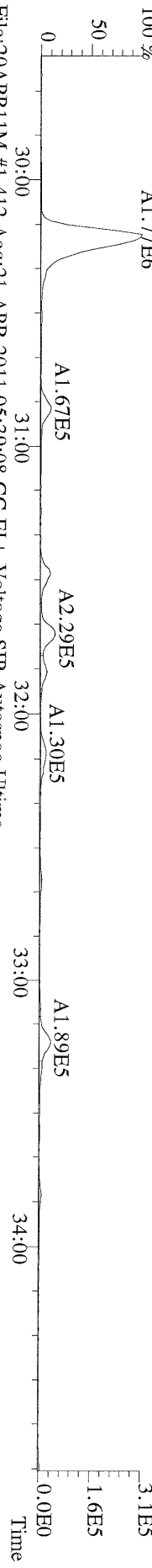
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333.9339 S:22 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



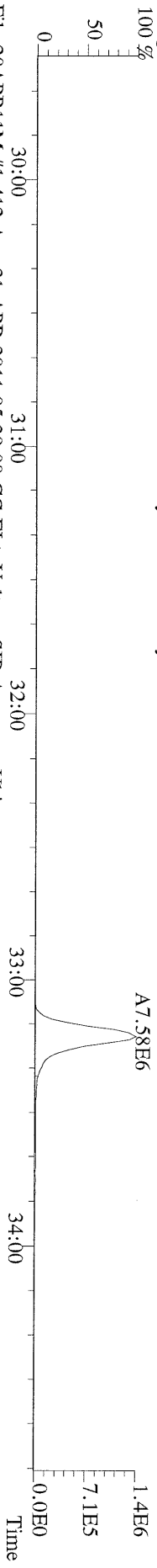
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355.8546 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



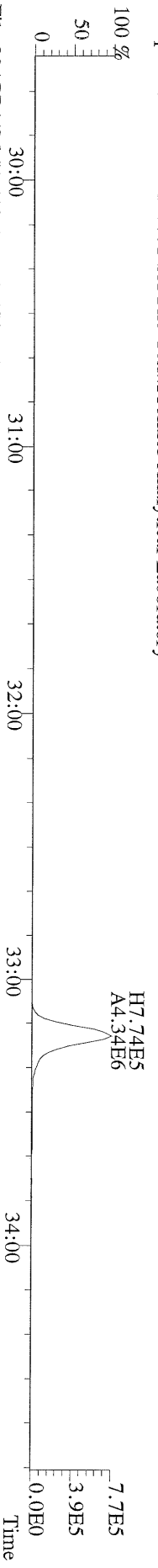
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357.8517 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



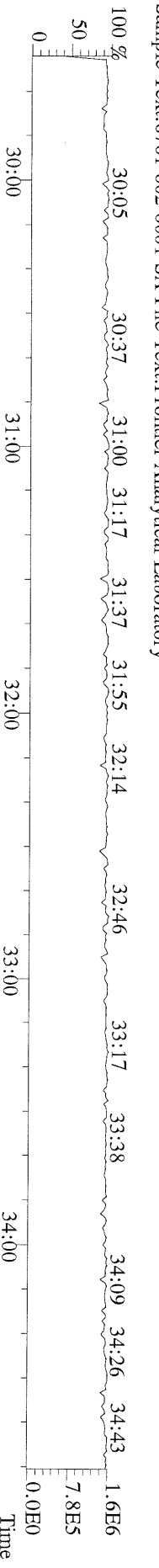
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367.8949 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



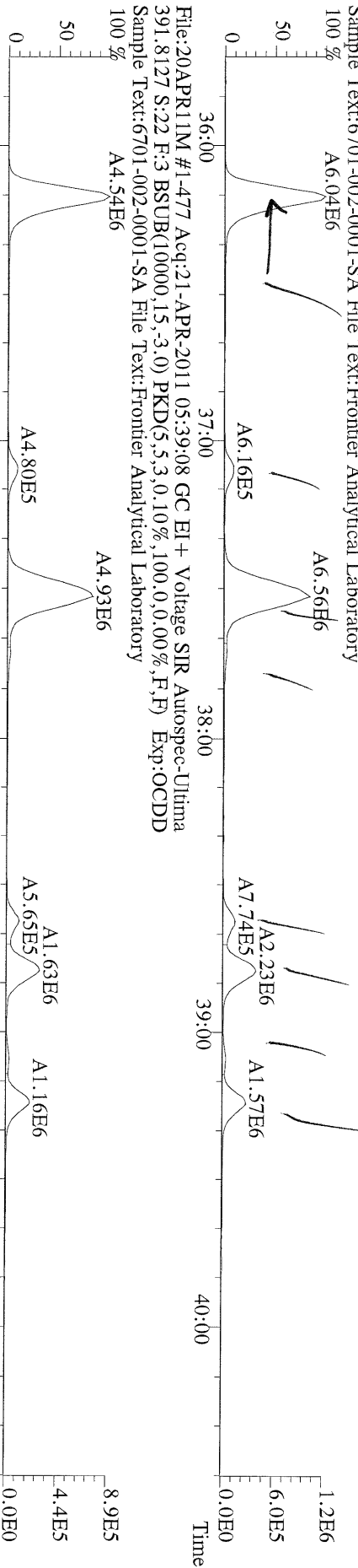
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369.8919 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



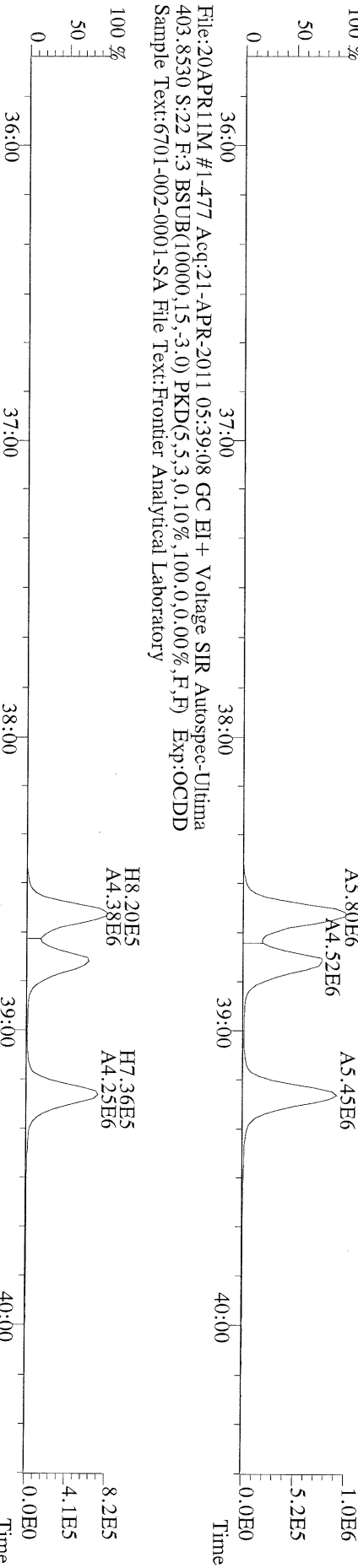
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366.9792 S:22 F:2 Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



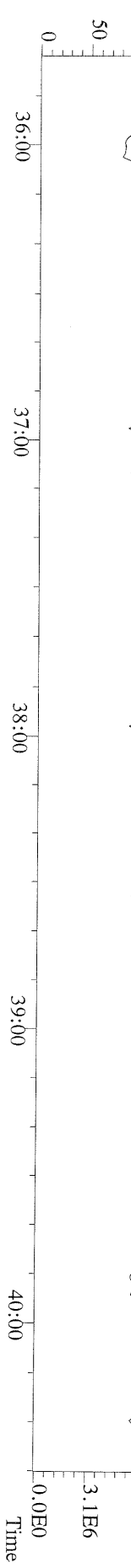
File:20APR11M #1-477 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:22 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



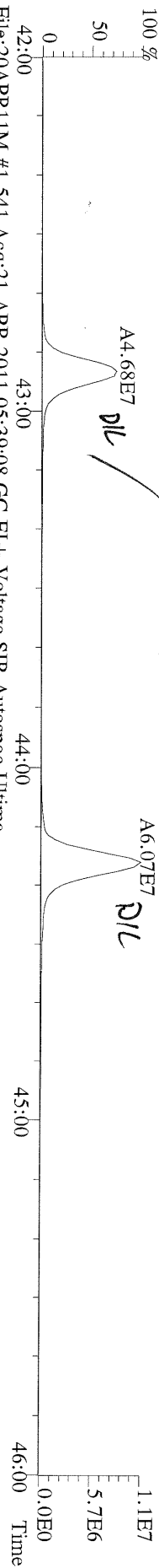
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401.8559 S:22 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



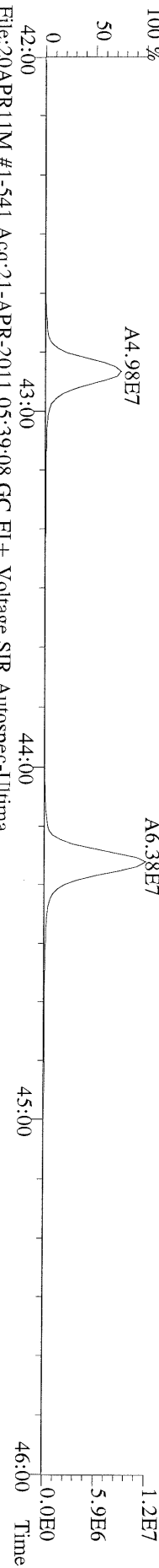
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380.9760 S:22 F:3 Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



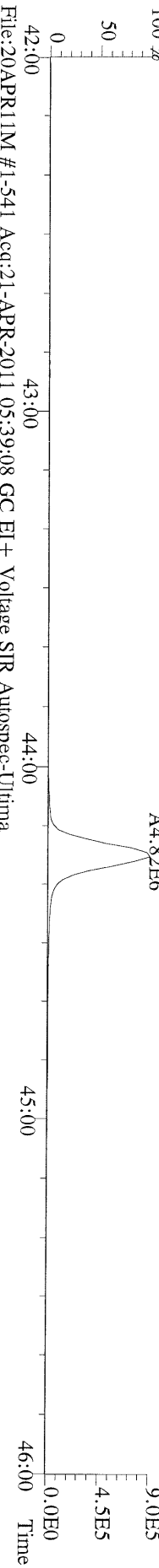
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423.7767 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



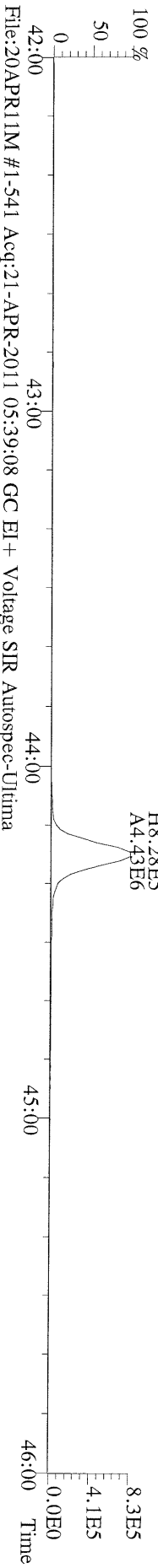
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425.7737 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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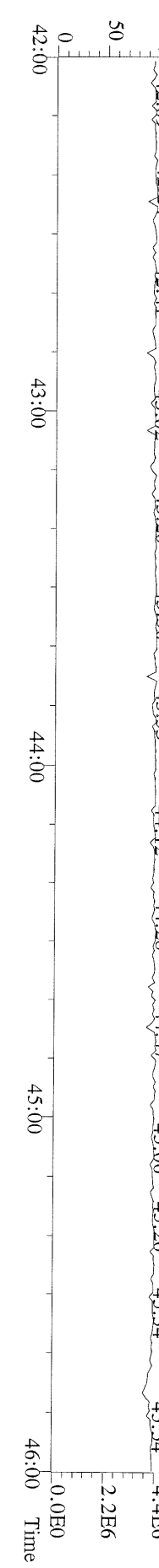
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435.8169 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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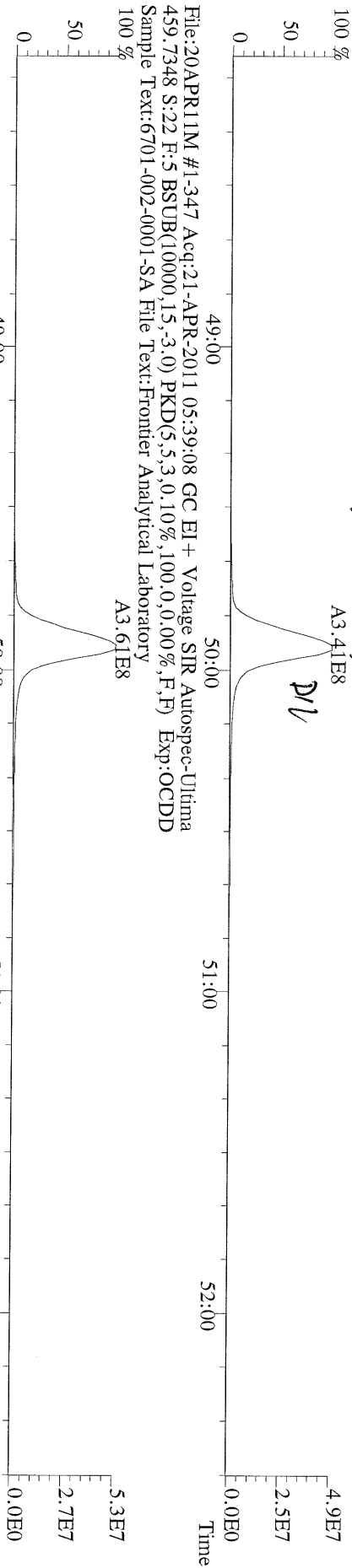
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437.8140 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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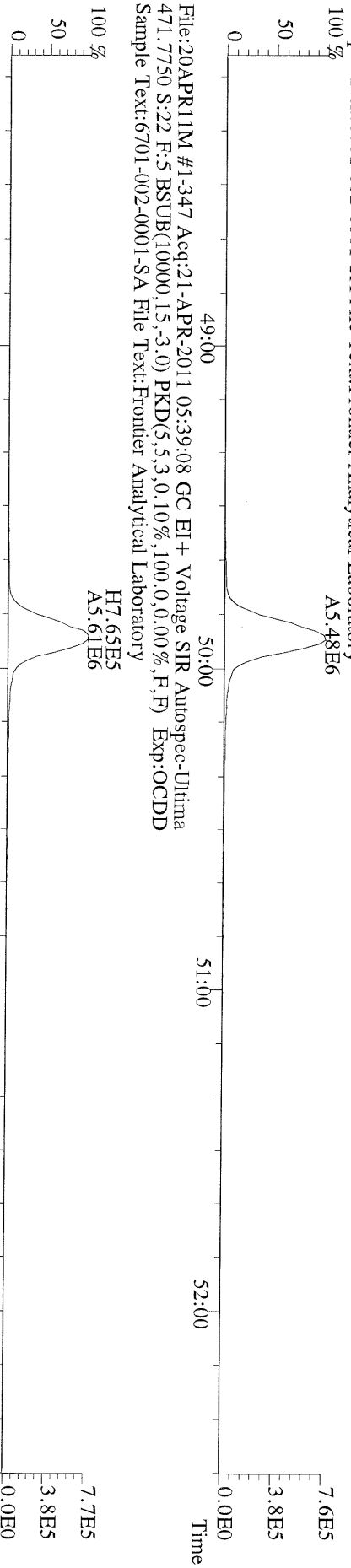
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430.9728 S:22 F:4 Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



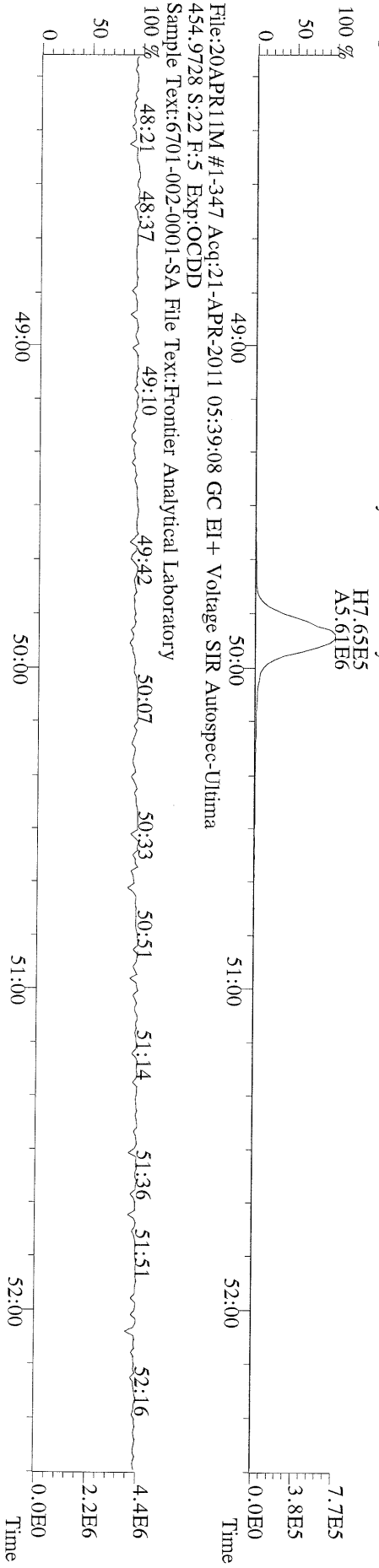
File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Utima
469.7780 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory

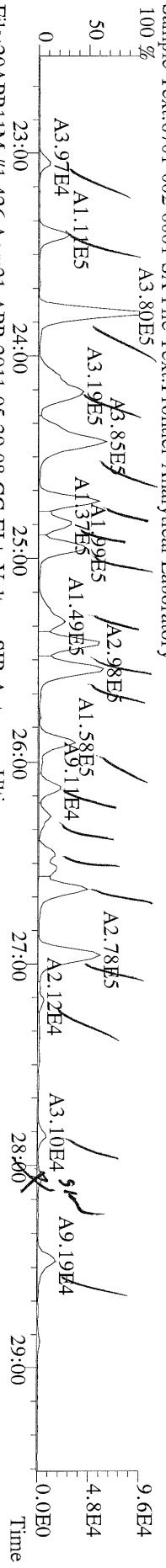


File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Utima
471.7750 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
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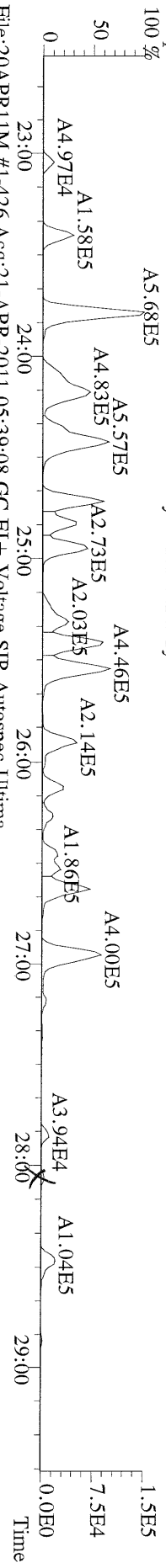


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454.9728 S:22 F:5 Exp:OCDD
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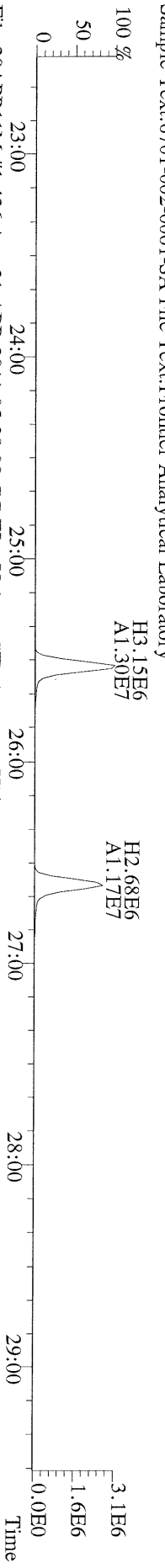
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303.9016 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



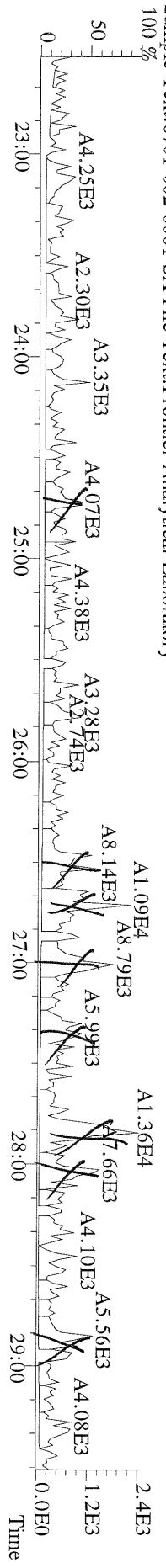
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305.8987 S:22 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



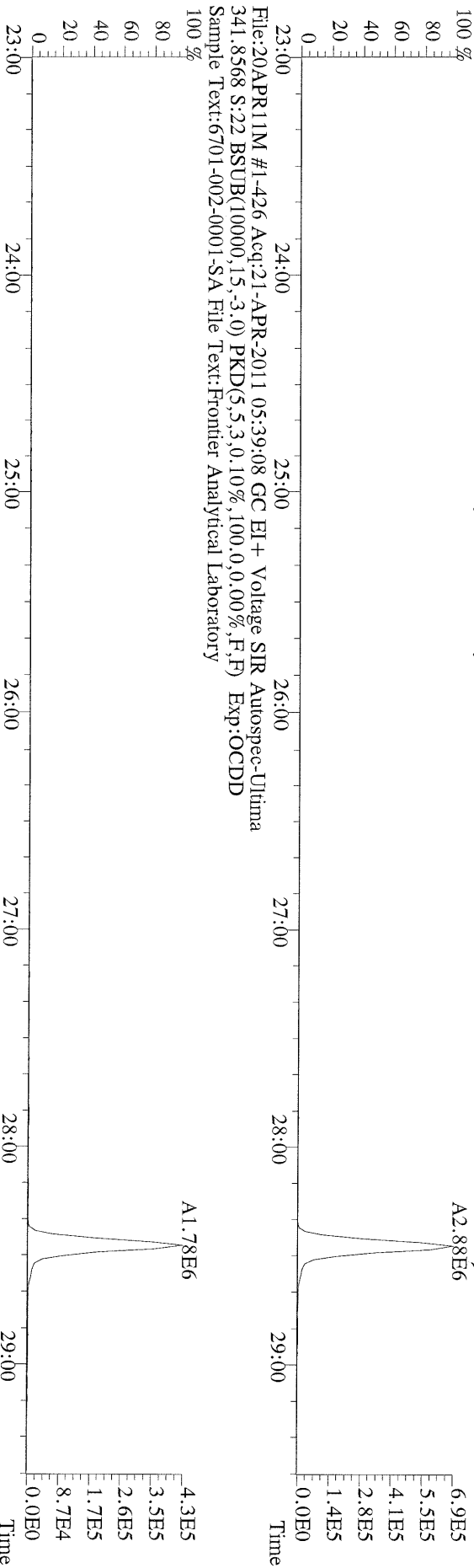
File:20APR11M #1-426 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



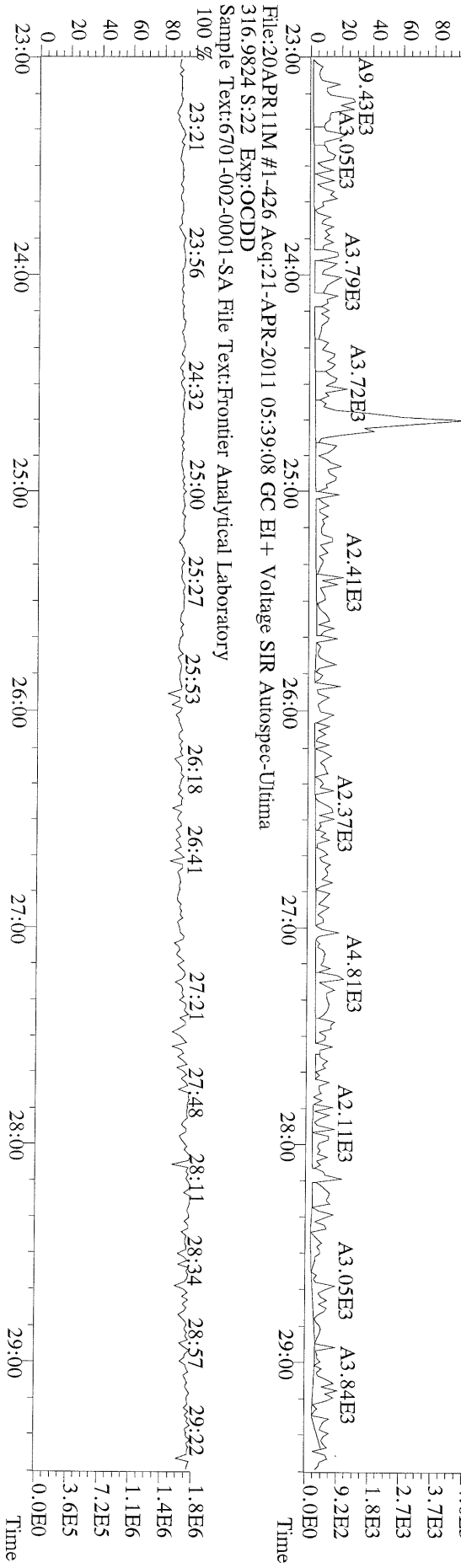
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375.8364 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



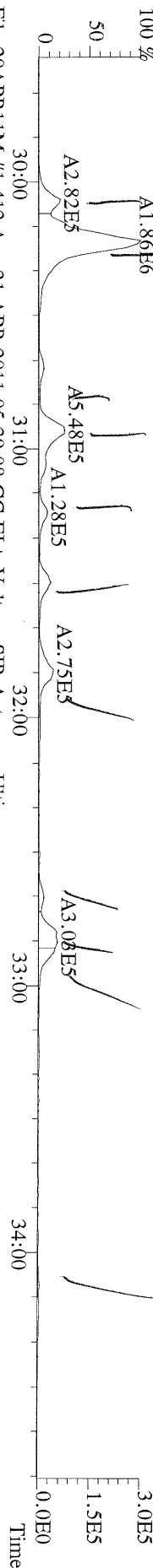
File:20APR11M #1-426 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:22 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



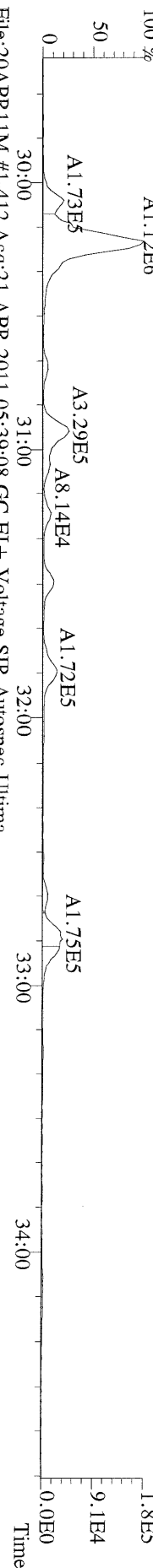
File:20APR11M #1-426 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:22 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



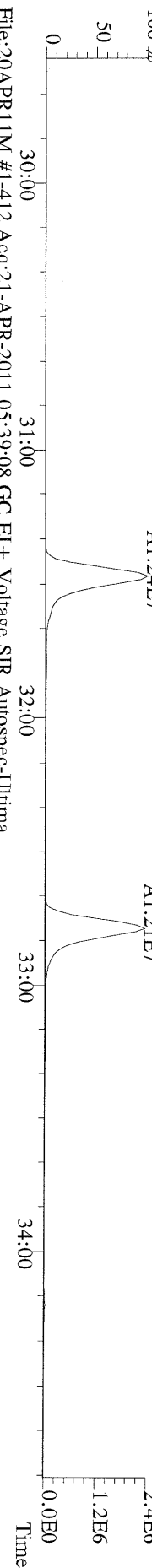
File:20APR11M #1-412 Acq:21-APR-2011 05:39:08 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



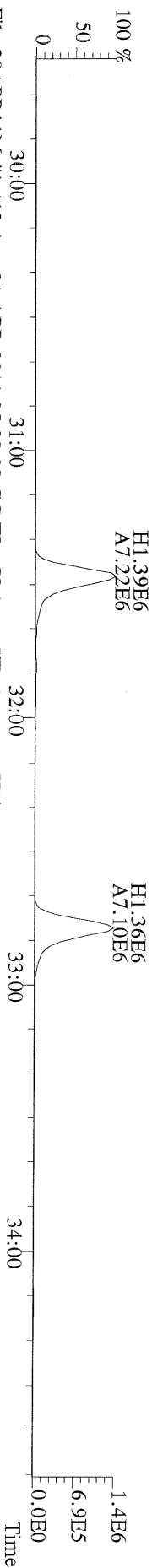
File:20APR11M #1-412 Acq:21-APR-2011 05:39:08 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



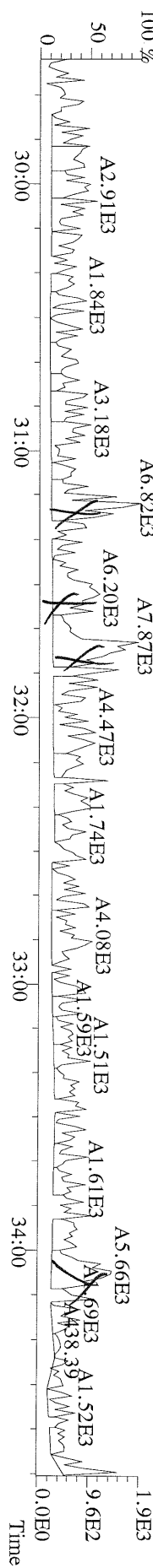
File:20APR11M #1-412 Acq:21-APR-2011 05:39:08 GC EI + Voltage SIR Autospec-Ultima
 351.9000 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



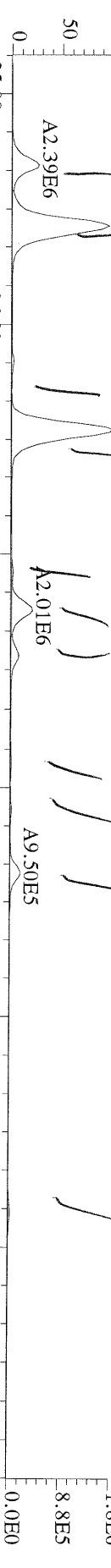
File:20APR11M #1-412 Acq:21-APR-2011 05:39:08 GC EI + Voltage SIR Autospec-Ultima
 353.8970 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



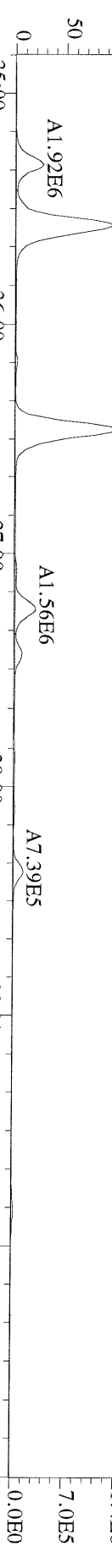
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 409.7974 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



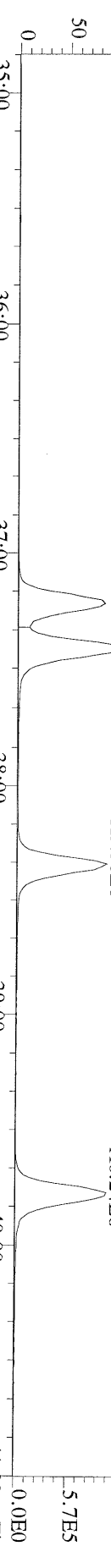
File:20APR11M #1-477 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



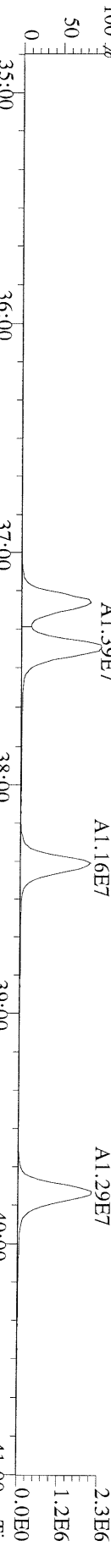
File:20APR11M #1-477 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



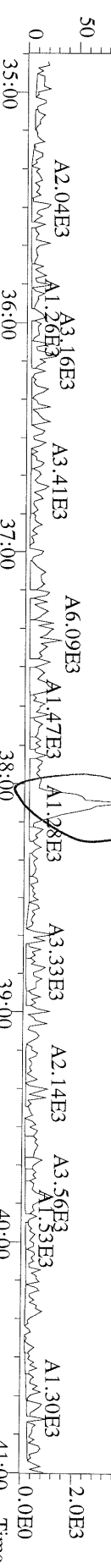
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383.8639 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



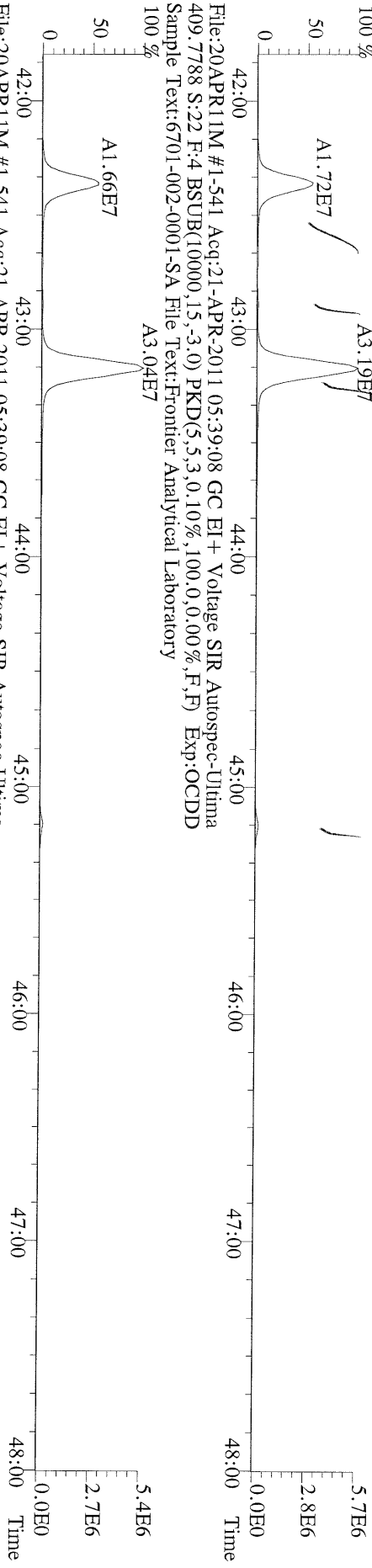
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385.8610 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



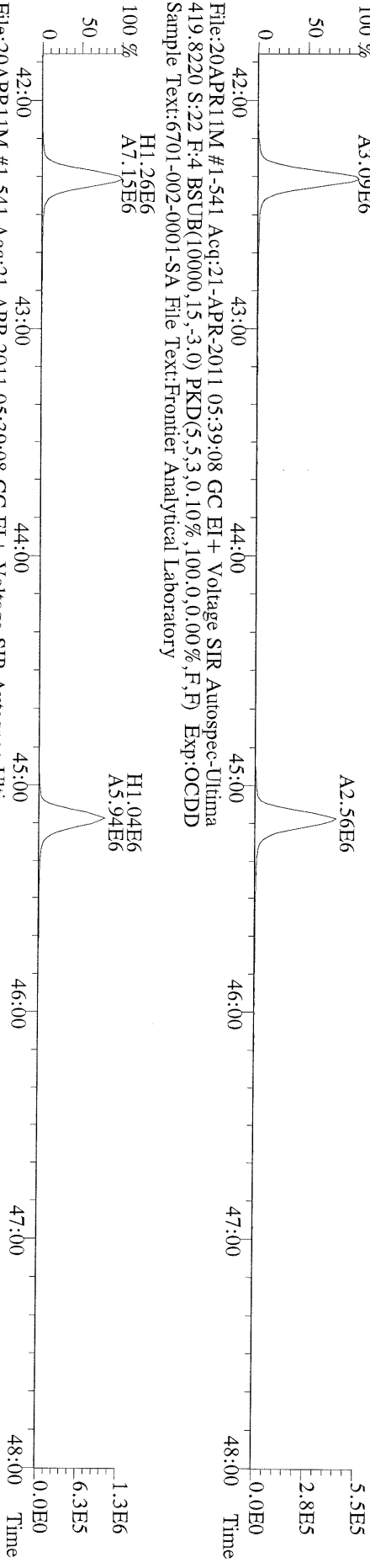
File:20APR11M #1-477 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



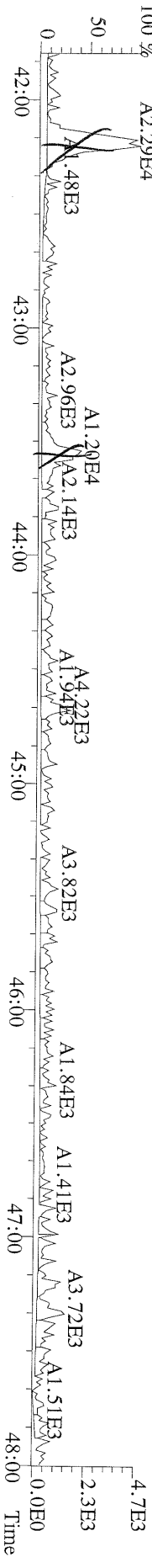
File:20APR11M #1-541 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:22 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



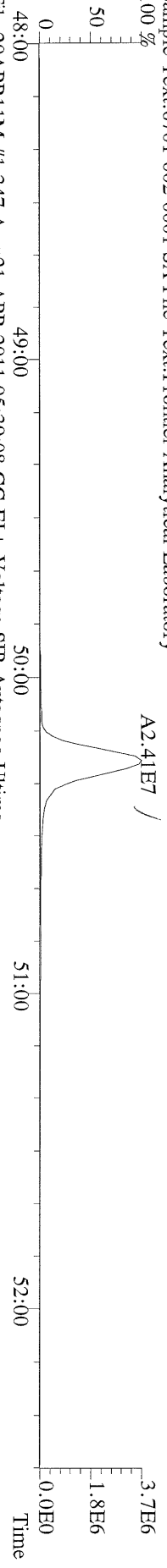
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417.8253 S:22 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



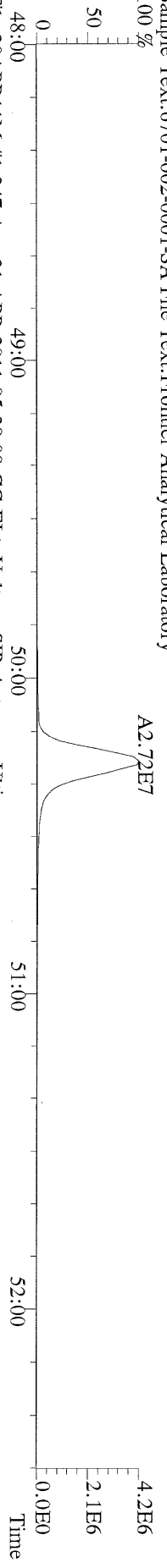
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479.7165 S:22 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



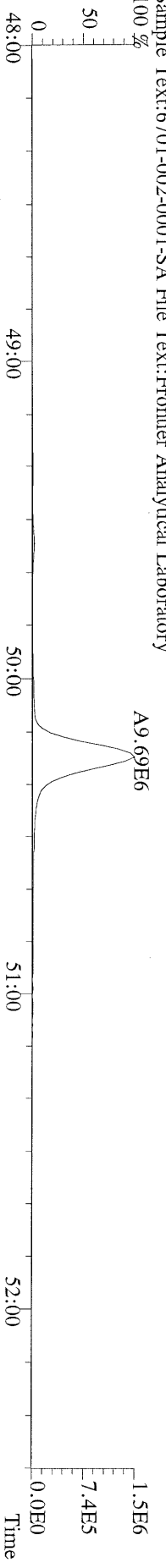
File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



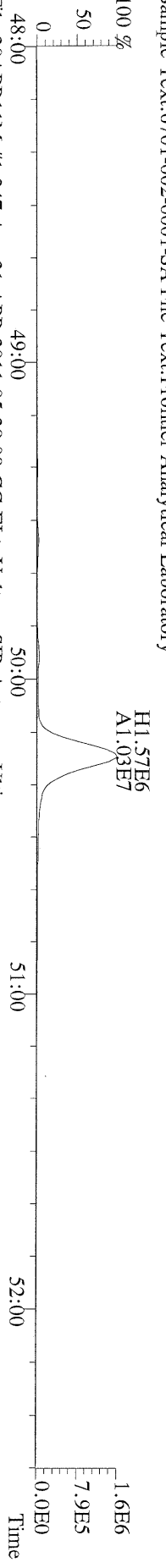
File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



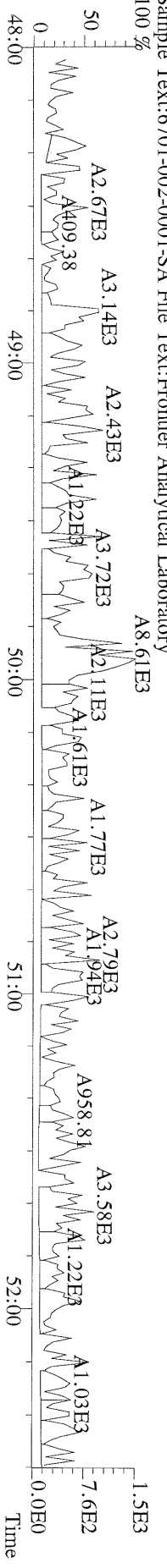
File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:21-APR-2011 05:39:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-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	1.13	*		2.50	-	-	*	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	2.16e+07	0.94 y	44:10	1.30	7500		2.50	-	-	*	
OCDD	1.45e+08	0.93 y	49:44	1.45	67100		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	-	-	*	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	-	-	*	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	-	-	*	
OCDF	*	* n	NotFnd	0.84	*		2.50	-	-	*	
13C-2,3,7,8-TCDD	*	* n	NotFnd	1.03	*					*	
13C-1,2,3,7,8-PeCDD	*	* n	NotFnd	1.01	*					*	
13C-1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.19	*					*	
13C-1,2,3,6,7,8-HxCDD	*	* n	NotFnd	0.94	*					*	
13C-1,2,3,4,6,7,8-HpCDD	1.47e+06	1.06 y	44:09	0.83	834					126	
13C-OCDD	1.99e+06	1.00 y	49:43	0.61	1540					116	
13C-2,3,7,8-TCDF	*	* n	NotFnd	0.98	*					*	
13C-1,2,3,7,8-PeCDF	*	* n	NotFnd	0.83	*					*	
13C-2,3,4,7,8-PeCDF	*	* n	NotFnd	0.80	*					*	
13C-1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.84	*					*	
13C-1,2,3,6,7,8-HxCDF	*	* n	NotFnd	2.29	*					*	
13C-2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.86	*					*	
13C-1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.98	*					*	
13C-1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	0.99	*					*	
13C-1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	0.77	*					*	
13C-OCDF	*	* n	NotFnd	1.17	*					*	
37Cl-2,3,7,8-TCDD	*		NotFnd	0.73	*					*	
13C-1,2,3,4-TCDD	*	* n	NotFnd	-	*					*	
13C-1,2,3,4-TCDF	*	* n	NotFnd	-	*					*	
13C-1,2,3,7,8,9-HxCDD	1.42e+06	1.32 y	39:09	-	1.90					*	
Total Tetra-Dioxins	*		NotFnd	1.13	*		2.50	-	-	*	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	-	-	*	0
Total Hexa-Dioxins	*		NotFnd	1.46	*		2.50	-	-	*	0
Total Hepta-Dioxins	3.82e+07		42:48	1.30	13200		2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.15	*		2.50	-	-	*	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*		2.50	-	-	*	PeCDF 0
Total Penta-Furans	*		NotFnd	0.89	*		2.50	-	-	*	0.00 0
Total Hexa-Furans	*		NotFnd	1.00	*		2.50	-	-	*	0
Total Hepta-Furans	*		NotFnd	1.46	*		2.50	-	-	*	0

Analyst:  Date: 4/21/11

Totals class: Total Hepta-Dioxins

Entry #: 41

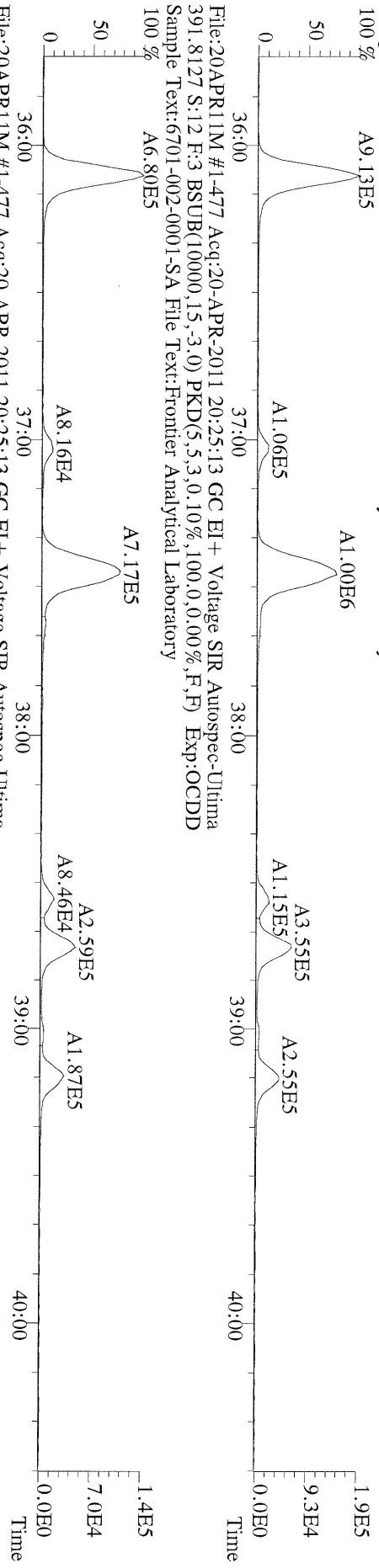
Run: 19 File: 20APR11M S: 12 I: 1 F: 4
Acquired: 20-APR-11 20:25:13

Total Concentration: 13200

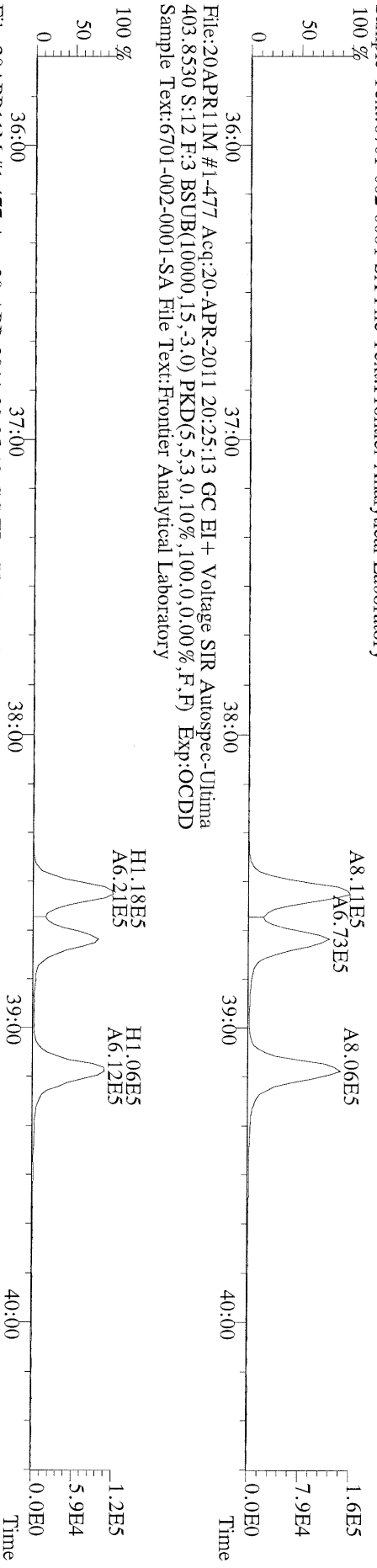
Unnamed Concentration: 5743.134

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	8.04e+06	8.51e+06	0.94 y	1.66e+07	5740	
44:10	1.05e+07	1.11e+07	0.94 y	2.16e+07	7500	1,2,3,4,6,7,8-HpCDD

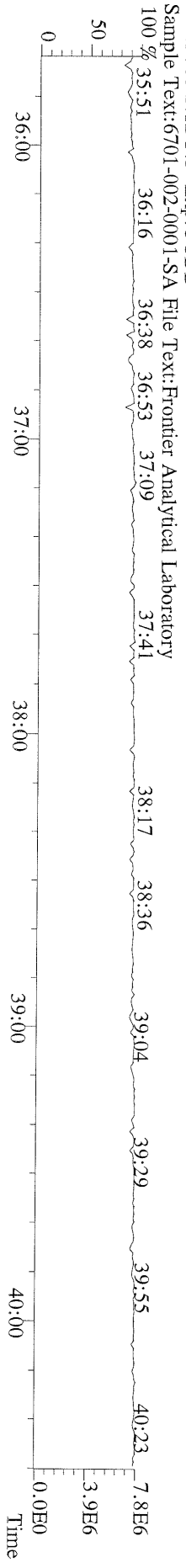
File:20APR11M #1-477 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:12 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
 100 %



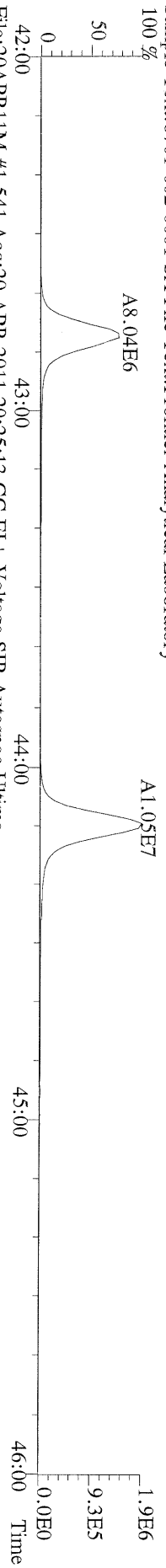
File:20APR11M #1-477 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:12 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
 100 %



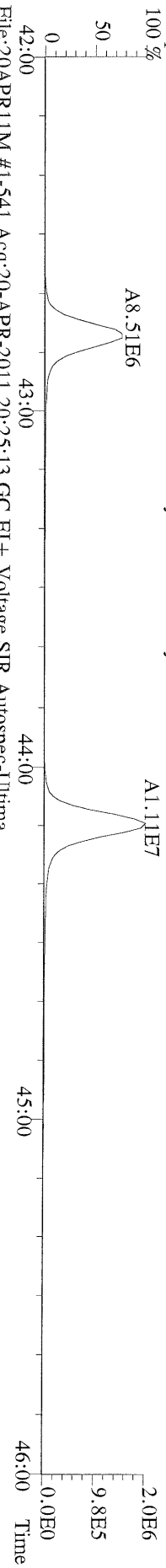
File:20APR11M #1-477 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:12 F:3 Exp:OCDD
 Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
 100 %



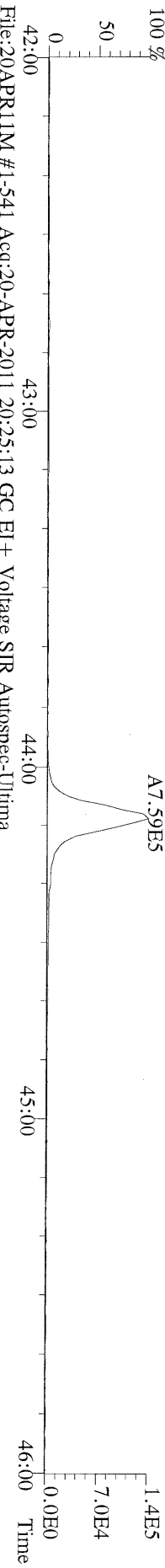
File:20APR11M #1-541 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



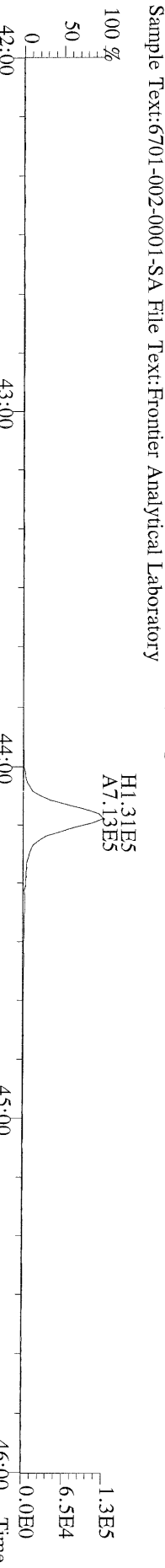
File:20APR11M #1-541 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



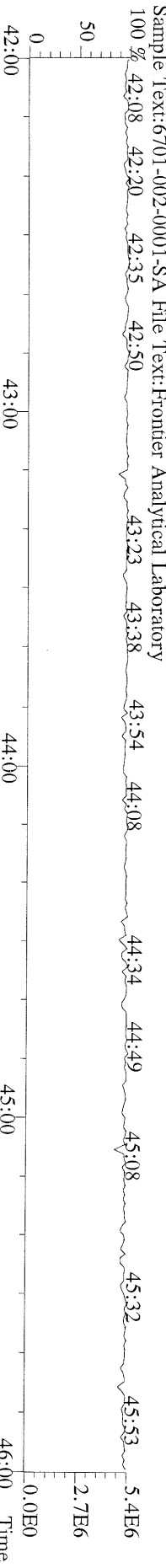
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435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



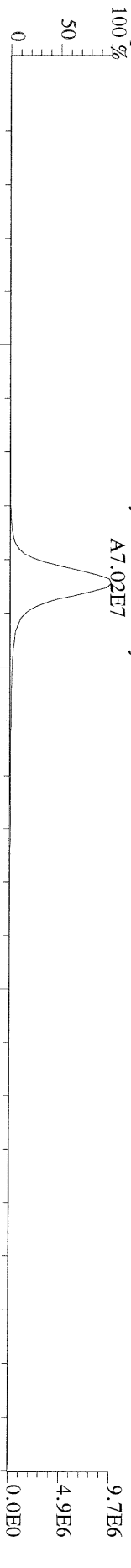
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437.8140 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



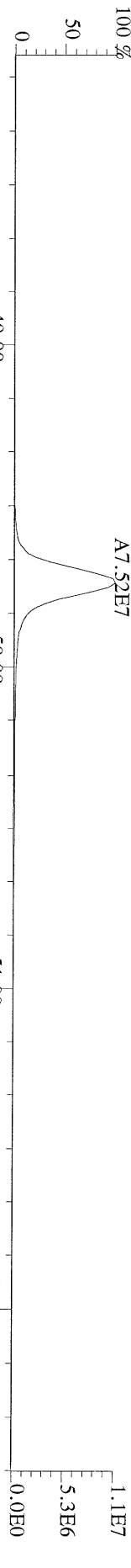
File:20APR11M #1-541 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:12 F:4 Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



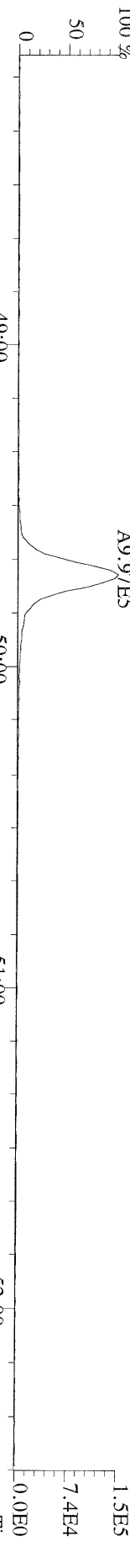
File:20APR11M #1-347 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



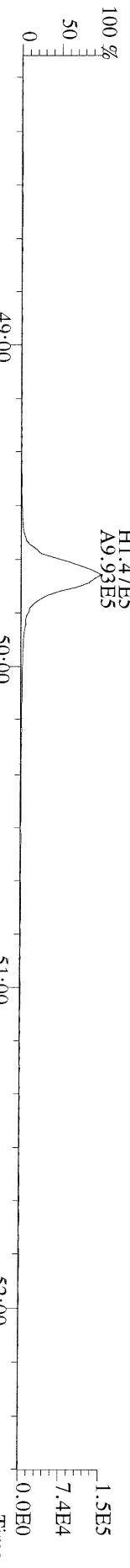
File:20APR11M #1-347 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:20APR11M #1-347 Acq:20-APR-2011 20:25:13 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:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:20APR11M #1-347 Acq:20-APR-2011 20:25:13 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:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory



File:20APR11M #1-347 Acq:20-APR-2011 20:25:13 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:12 F:5 Exp:OCDD
Sample Text:6701-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



FAL ID: 6701-002-0001-SA Filename: 20APR11A Sam:3 Acquired: 20-APR-11 10:35:28 ICal: TCDFFAL1-2-18-11
Client ID: LL-SED2-0-15-032911 ConCal: ST042011A1 EndCal: ST042011A2
Results: 6701TCDF GC Column: DB225 Amount: 3.010

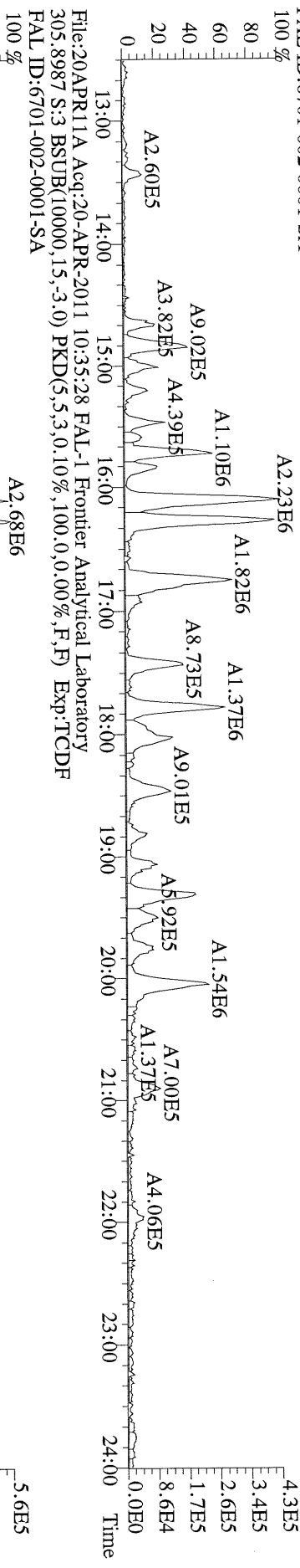
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	#Hom
2,3,7,8-TCDF	2.60e+06	0.79 y	19:19	1.16	10.7		2.50	-	-	1
13C-2,3,7,8-TCDF	1.39e+08	0.79 y	19:18	1.05	644					
13C-1,2,3,4-TCDF	1.36e+08	0.80 y	16:44	-	25.6					

Rec
97.0

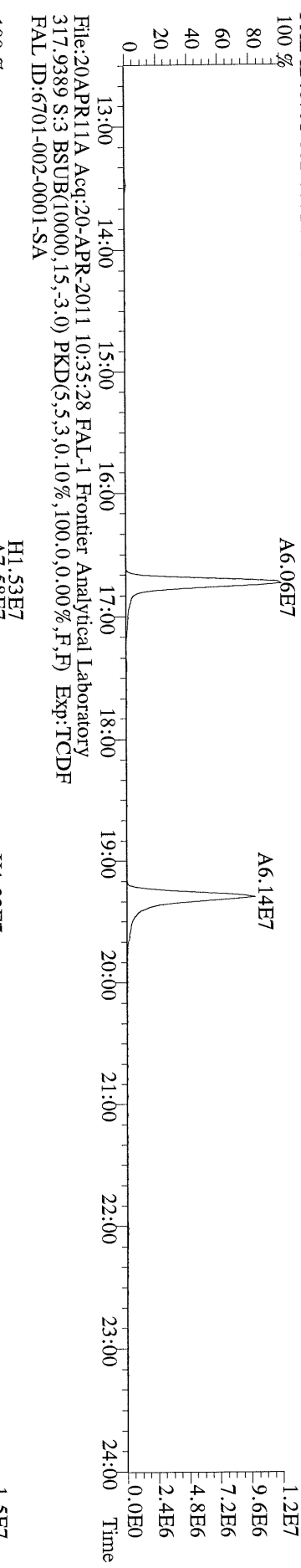
Analyst: 

Date: 4/20/11

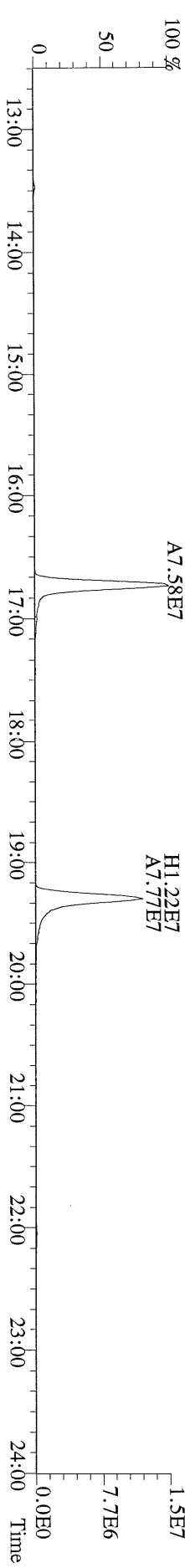
File:20APR11A Acq:20-APR-2011 10:35:28 FAL-1 Frontier Analytical Laboratory
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:TCDF
FAL ID:6701-002-0001-SA



File:20APR11A Acq:20-APR-2011 10:35:28 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:6701-002-0001-SA



File:20APR11A Acq:20-APR-2011 10:35:28 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:6701-002-0001-SA

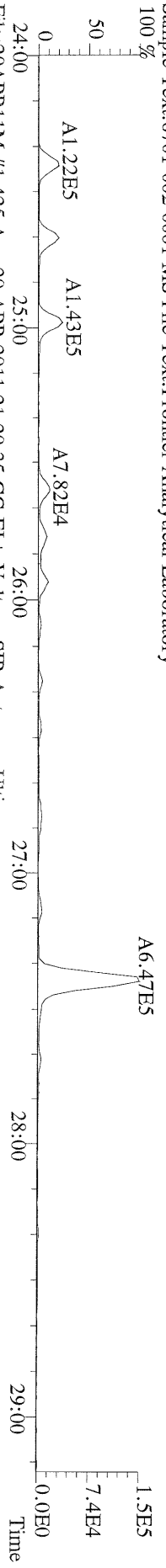


Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL
2,3,7,8-TCDD	1.49e+06	0.77 y	27:24	1.13	59.7		2.50	-	-	*
1,2,3,7,8-PeCDD	7.46e+06	1.61 y	33:15	1.02	372		2.50	-	-	*
1,2,3,4,7,8-HxCDD	9.81e+06	1.40 y	38:39	1.45	400		2.50	-	-	*
1,2,3,6,7,8-HxCDD	1.12e+07	1.32 y	38:49	1.45	554		2.50	-	-	*
1,2,3,7,8,9-HxCDD	1.12e+07	1.37 y	39:15	1.47	492		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.30	*	+	2.50	-	-	*
OCDD	*	* n	NotFnd	1.45	*	+	2.50	-	-	*
2,3,7,8-TCDF	3.55e+06	0.66 y	26:38	1.15	81.0		2.50	-	-	*
1,2,3,7,8-PeCDF	1.01e+07	1.67 y	31:31	0.89	344		2.50	-	-	*
2,3,4,7,8-PeCDF	1.08e+07	1.64 y	32:49	0.89	370		2.50	-	-	*
1,2,3,4,7,8-HxCDF	1.38e+07	1.28 y	37:16	1.01	484		2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.14e+07	1.26 y	37:28	0.89	366		2.50	-	-	*
2,3,4,6,7,8-HxCDF	1.12e+07	1.29 y	38:23	1.02	384		2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.16e+07	1.28 y	39:49	1.10	332		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	4.68e+07	1.04 y	42:24	1.48	1790		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	8.57e+06	1.05 y	45:12	1.43	393		2.50	-	-	*
OCDF	7.09e+07	0.89 y	50:19	0.84	4690		2.50	-	-	*
										Rec
13C-2,3,7,8-TCDD	1.47e+07	0.80 y	27:22	1.03	656					98.8
13C-1,2,3,7,8-PeCDD	1.31e+07	1.76 y	33:13	1.01	598					90.0
13C-1,2,3,4,7,8-HxCDD	1.13e+07	1.30 y	38:37	1.19	619					93.2
13C-1,2,3,6,7,8-HxCDD	9.24e+06	1.29 y	38:47	0.94	647					97.3
13C-1,2,3,4,6,7,8-HpCDD	1.06e+07	1.05 y	44:17	0.83	839					126
13C-OCDD	1.30e+07	1.00 y	49:58	0.61	1400					105
13C-2,3,7,8-TCDF	2.54e+07	0.87 y	26:37	0.98	683					103
13C-1,2,3,7,8-PeCDF	2.21e+07	1.71 y	31:29	0.83	702					106
13C-2,3,4,7,8-PeCDF	2.17e+07	1.72 y	32:48	0.80	713					107
13C-1,2,3,4,7,8-HxCDF	1.89e+07	0.48 y	37:14	1.84	670					101
13C-1,2,3,6,7,8-HxCDF	2.32e+07	0.49 y	37:26	2.29	663					99.8
13C-2,3,4,6,7,8-HxCDF	1.91e+07	0.49 y	38:23	1.86	671					101
13C-1,2,3,7,8,9-HxCDF	2.11e+07	0.48 y	39:48	1.98	697					105
13C-1,2,3,4,6,7,8-HpCDF	1.18e+07	0.44 y	42:23	0.99	779					117
13C-1,2,3,4,7,8,9-HpCDF	1.02e+07	0.43 y	45:11	0.77	868					131
13C-OCDF	2.38e+07	0.97 y	50:18	1.17	1340					101
37Cl-2,3,7,8-TCDD	3.65e+06		27:24	0.73	231					86.8
13C-1,2,3,4-TCDD	1.44e+07	0.82 y	26:48	-	12.6					
13C-1,2,3,4-TCDF	2.52e+07	0.87 y	25:32	-	11.6					
13C-1,2,3,7,8,9-HxCDD	1.02e+07	1.28 y	39:15	-	13.6					

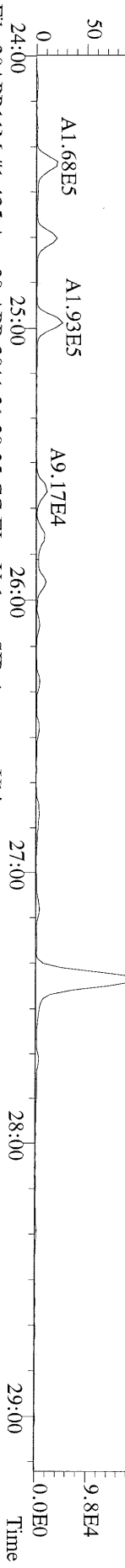
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Date: 4/21/11

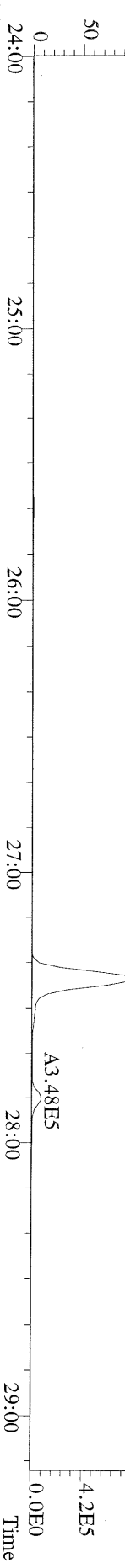
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319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



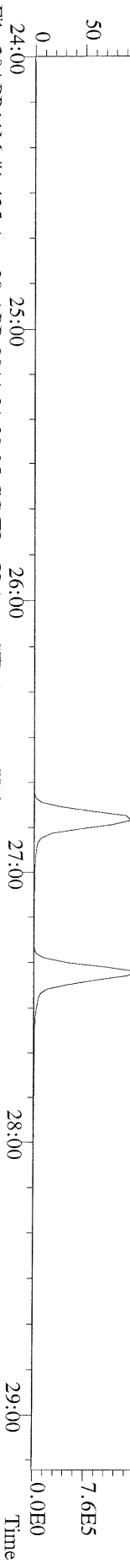
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321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



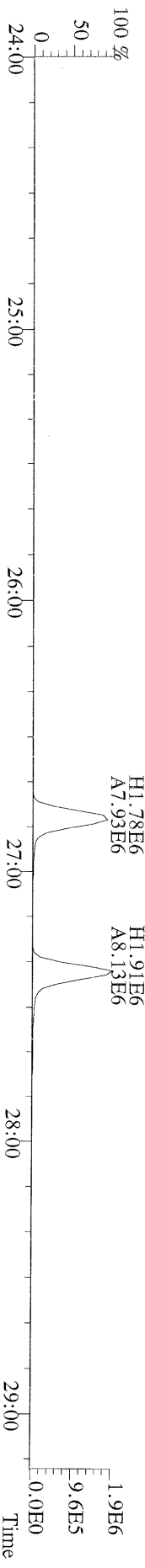
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327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



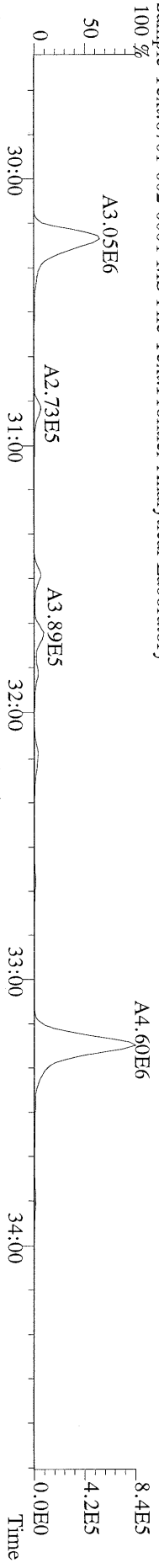
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Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



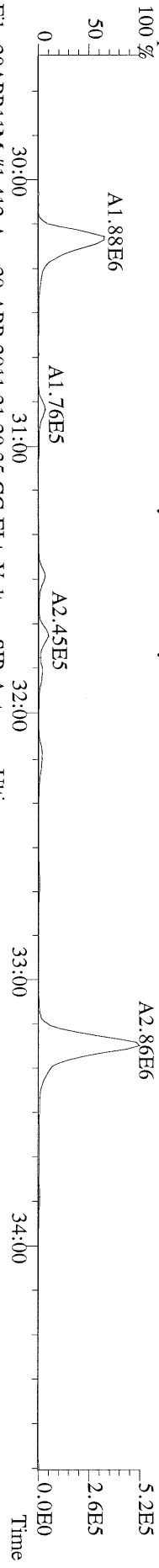
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333.9339 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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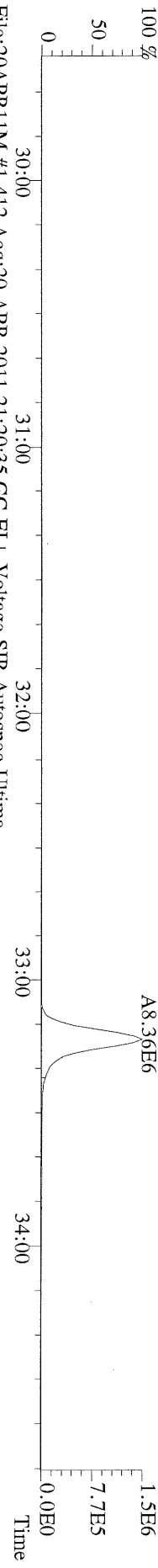
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355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



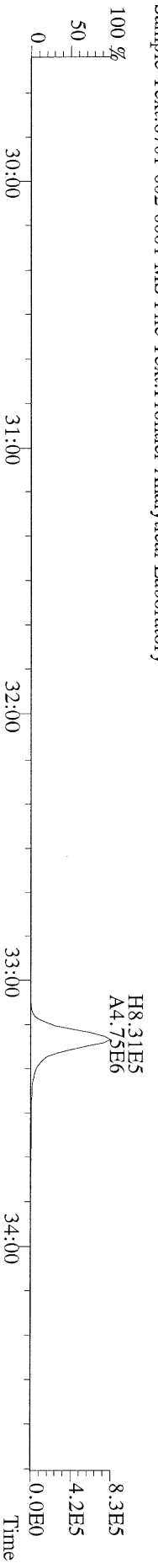
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357.8517 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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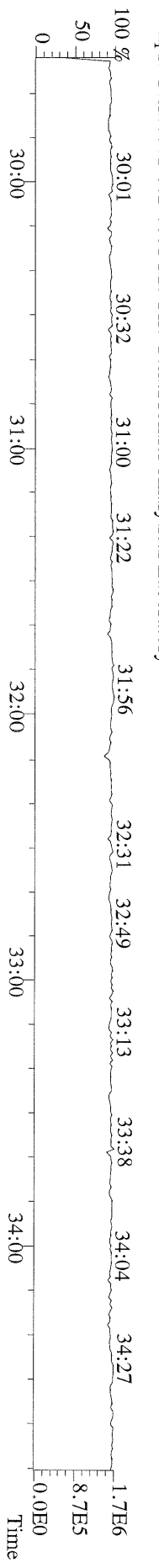
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367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



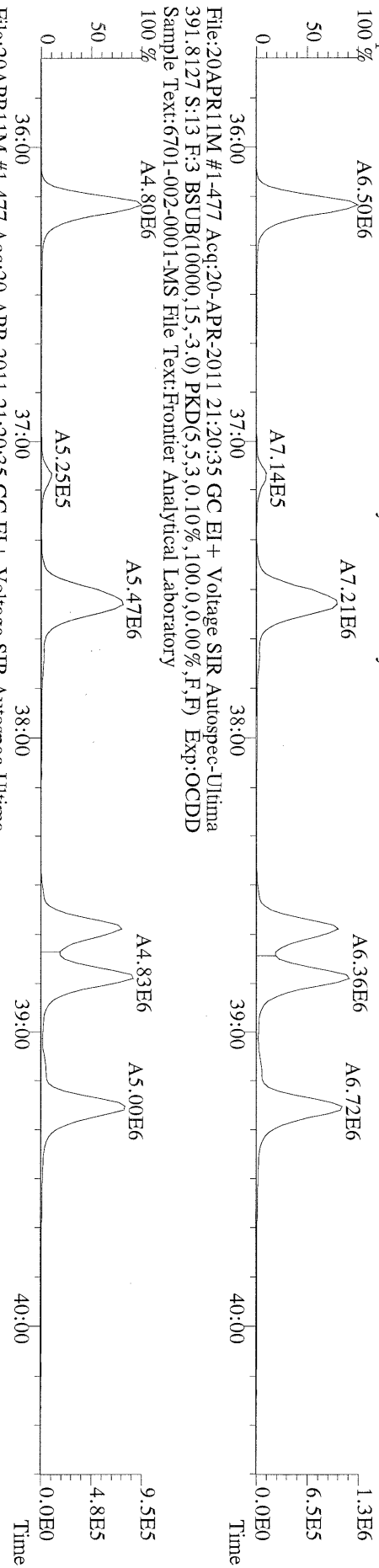
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369.8919 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



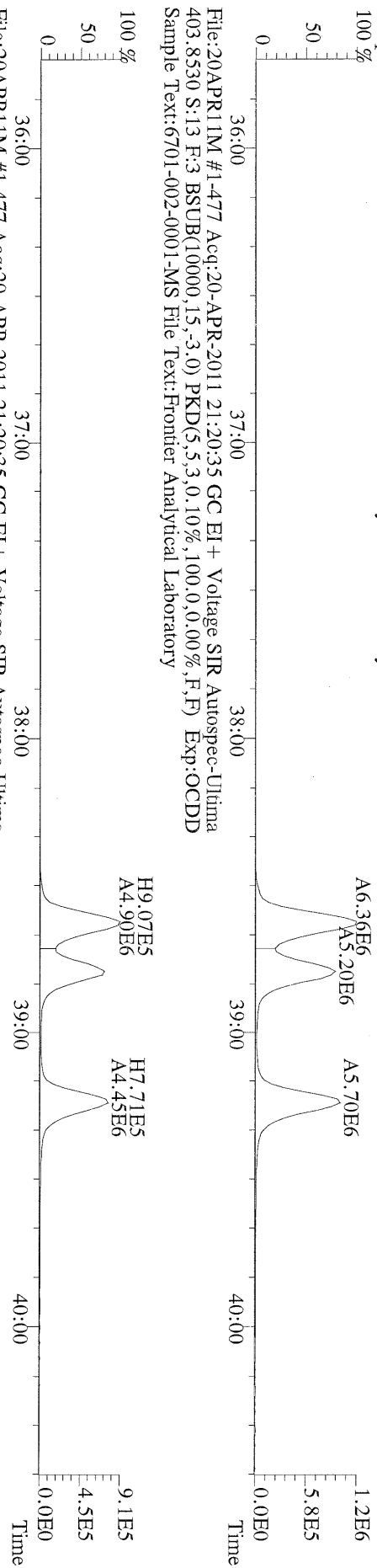
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366.9792 S:13 F:2 Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



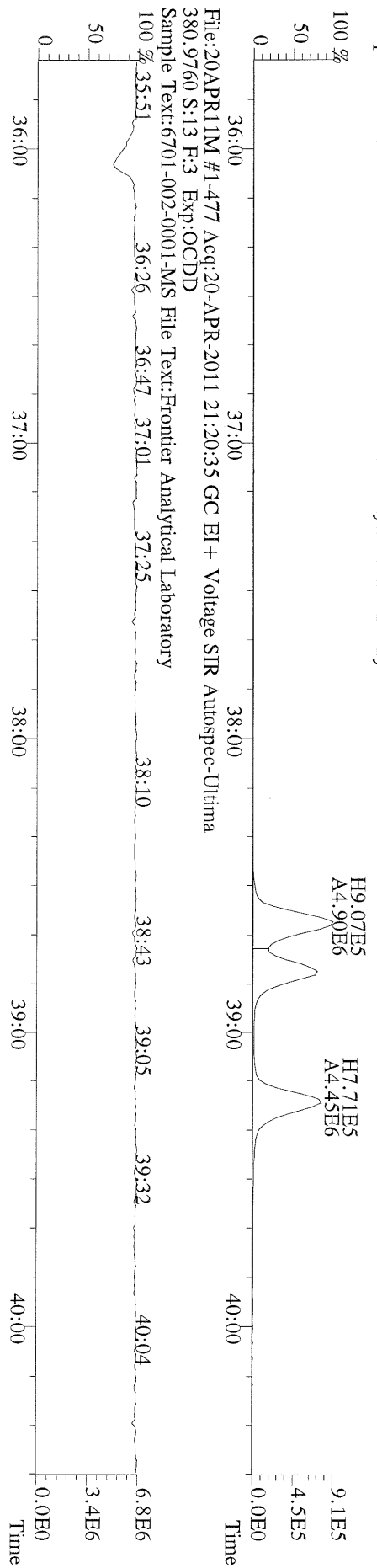
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389.8156 S:13 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



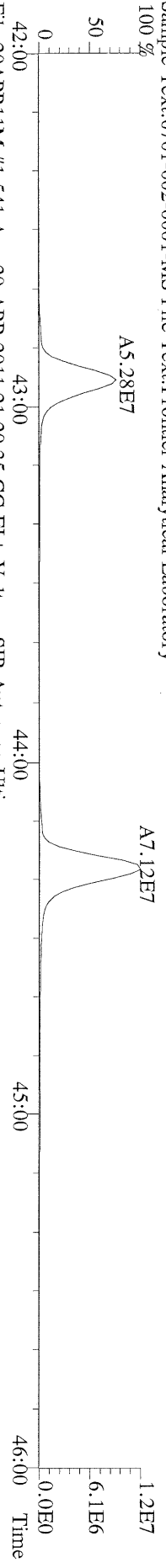
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401.8559 S:13 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



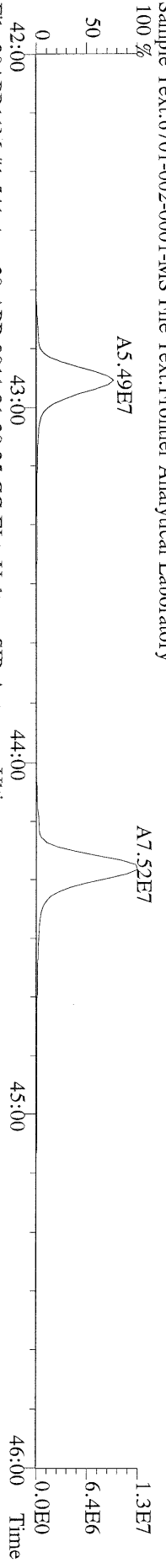
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403.8530 S:13 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



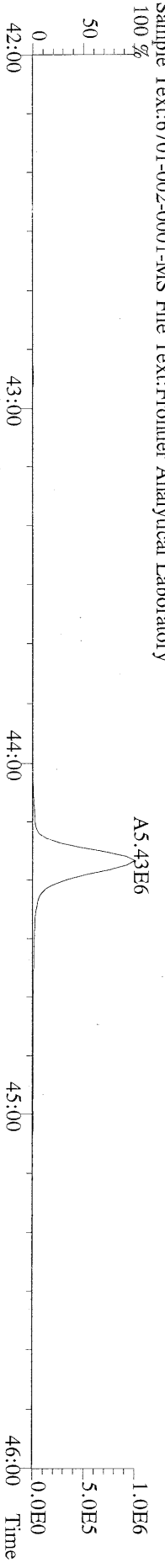
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423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



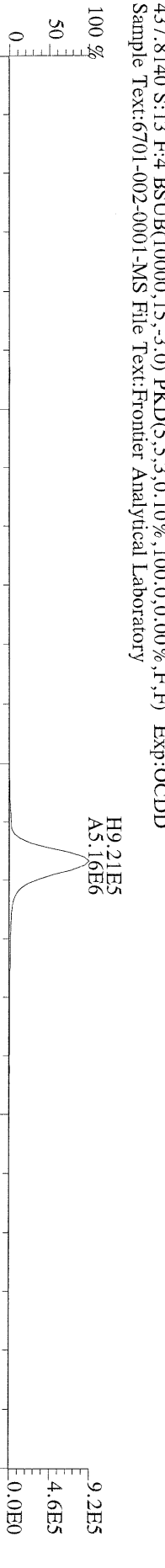
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425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



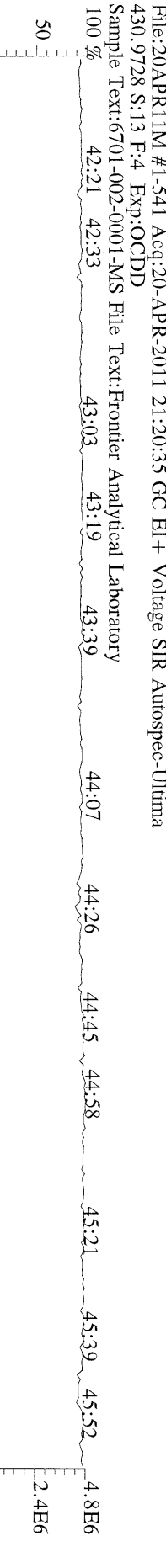
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435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



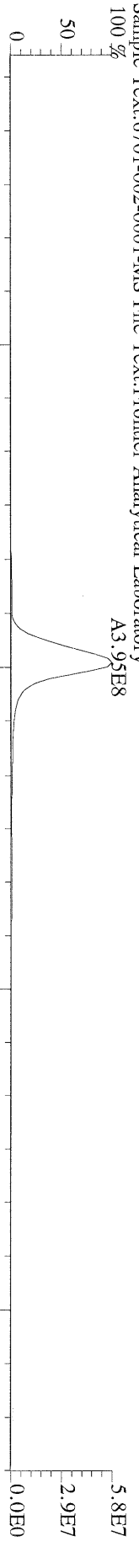
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437.8140 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



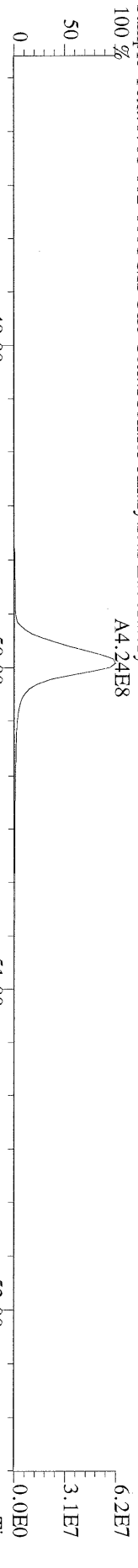
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Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



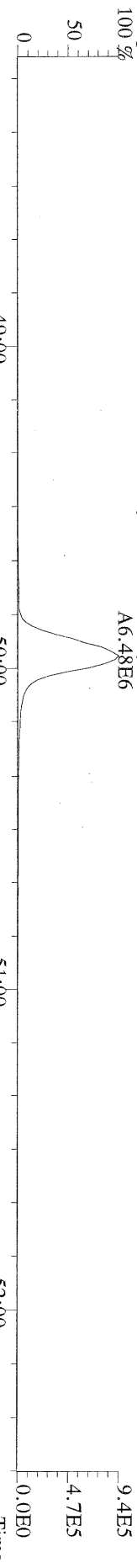
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457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



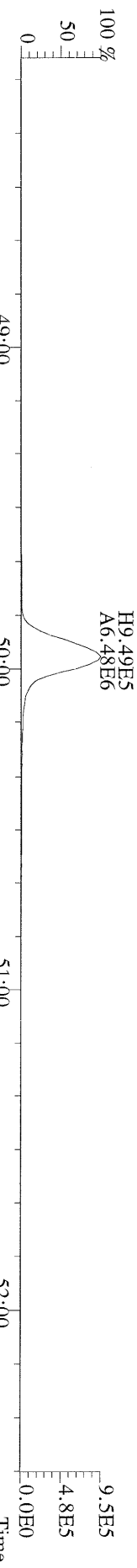
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459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



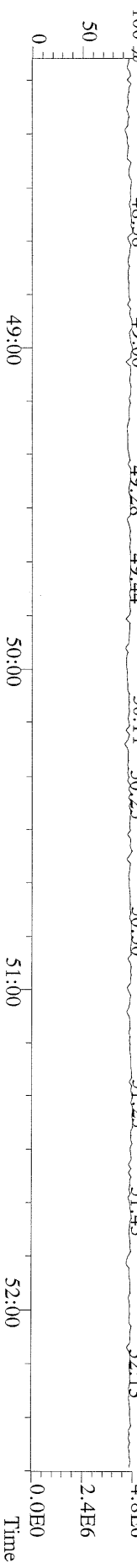
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469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



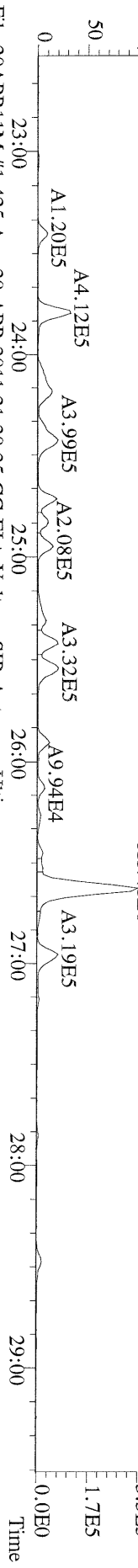
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471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6701-002-0001-MS File Text:Frontier Analytical Laboratory



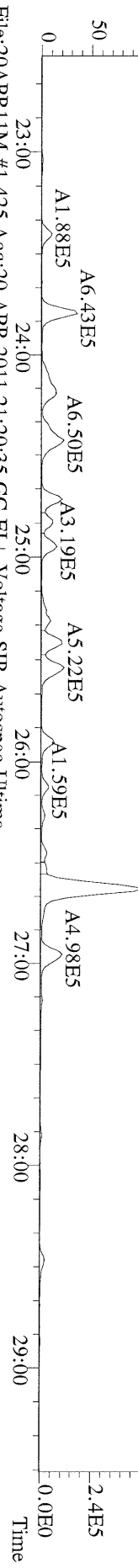
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454.9728 S:13 F:5 Exp:OCDD
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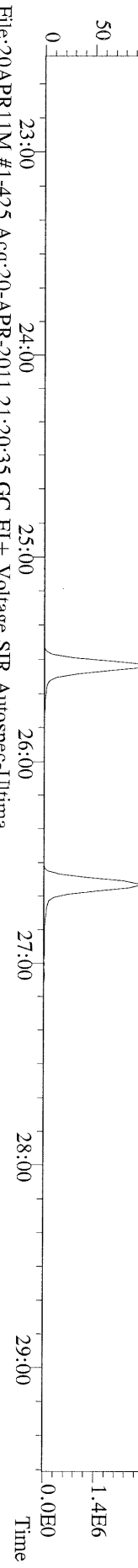
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303.9016 S: 1.3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp: OCDD
Sample Text: 6701-002-0001-MS File Text: Frontier Analytical Laboratory



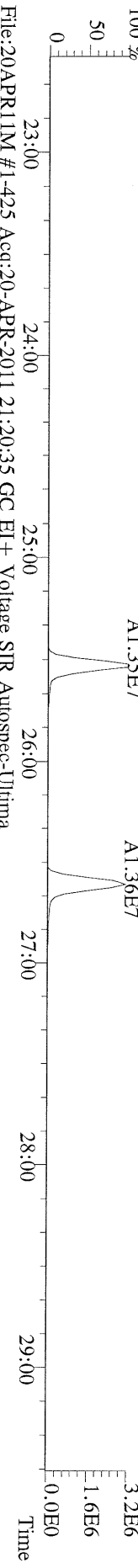
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305.8987 S: 1.3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp: OCDD
Sample Text: 6701-002-0001-MS File Text: Frontier Analytical Laboratory



File: 20APR11M #1-425 Acq: 20-APR-2011 21:20:35 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S: 1.3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp: OCDD
Sample Text: 6701-002-0001-MS File Text: Frontier Analytical Laboratory



File: 20APR11M #1-425 Acq: 20-APR-2011 21:20:35 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S: 1.3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp: OCDD
Sample Text: 6701-002-0001-MS File Text: Frontier Analytical Laboratory



File: 20APR11M #1-425 Acq: 20-APR-2011 21:20:35 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S: 1.3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp: OCDD
Sample Text: 6701-002-0001-MS File Text: Frontier Analytical Laboratory

