

Frontier Analytical Laboratory - Acquisition Log

Run Name:11AUG10M

Instrument: FAL3

GC: DB5

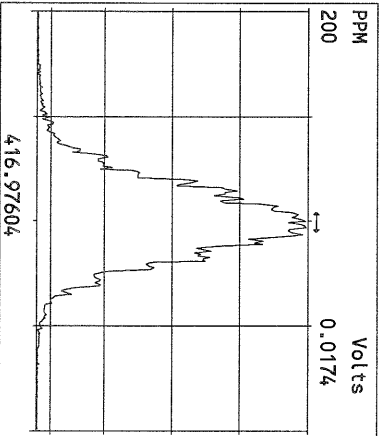
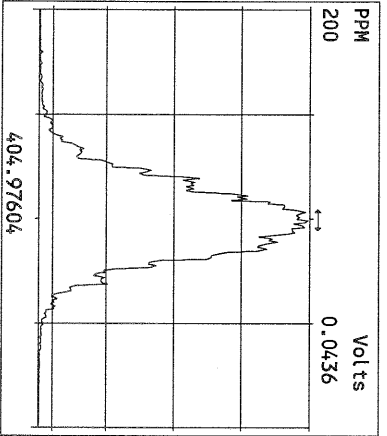
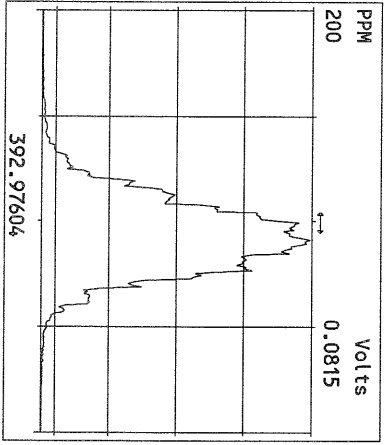
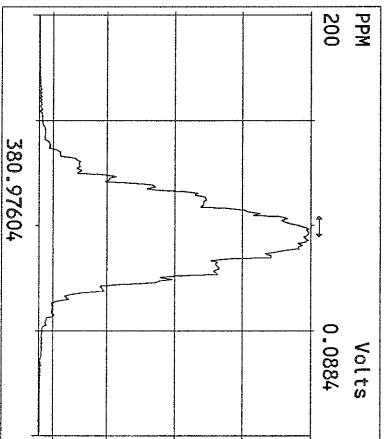
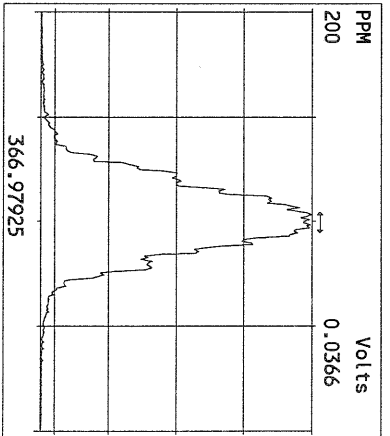
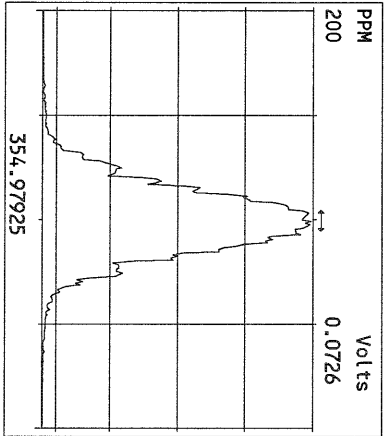
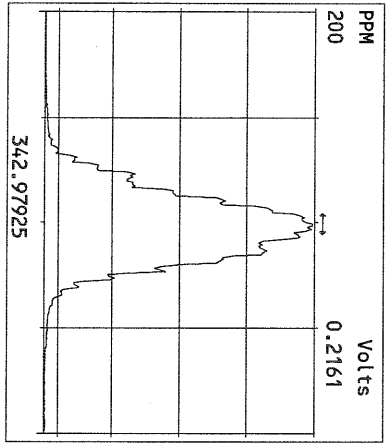
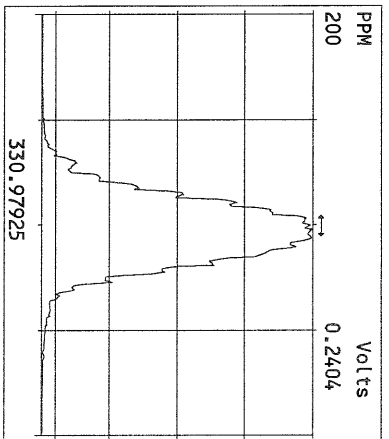
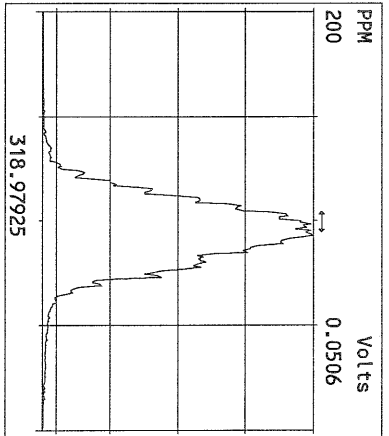
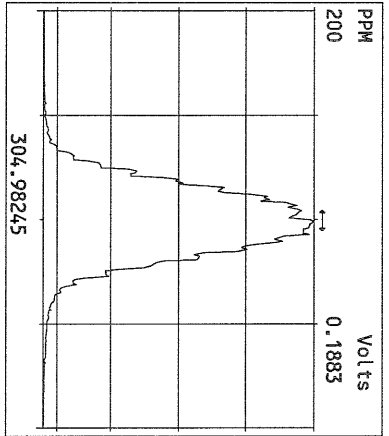
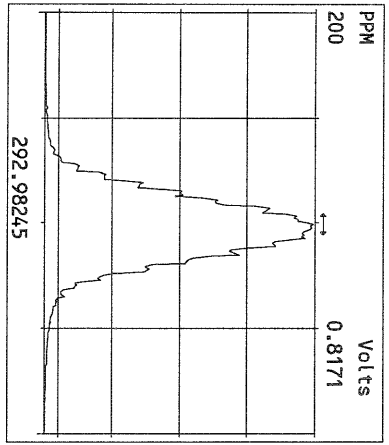
Experiment:PCDD

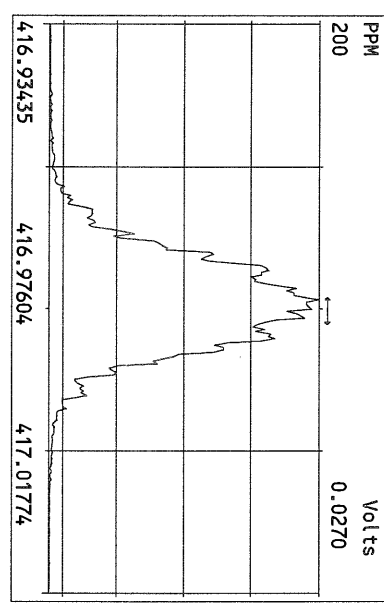
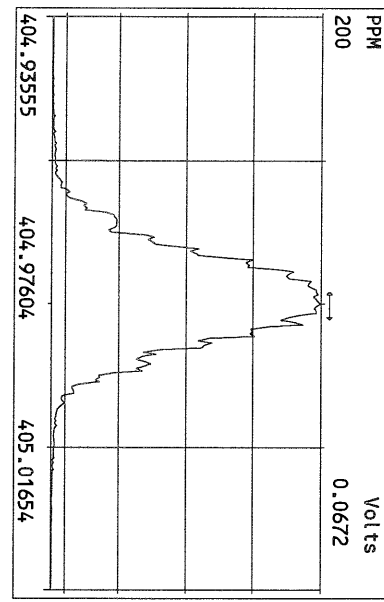
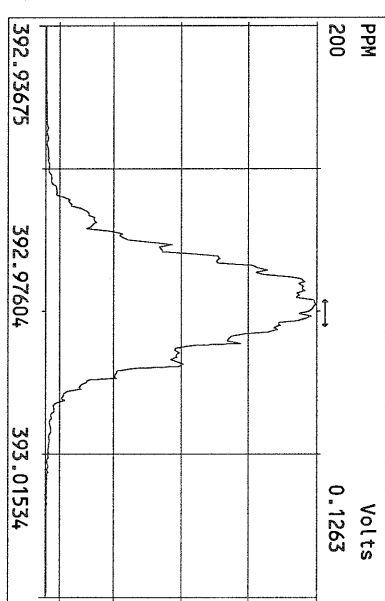
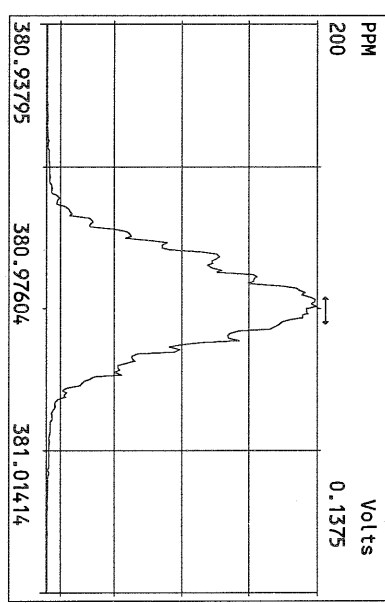
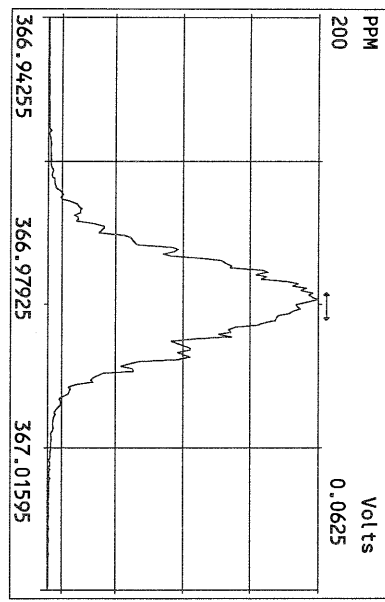
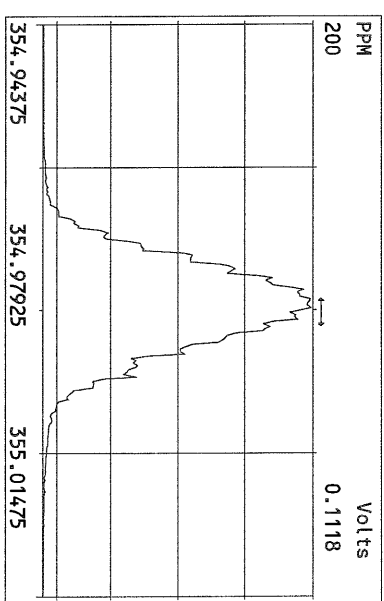
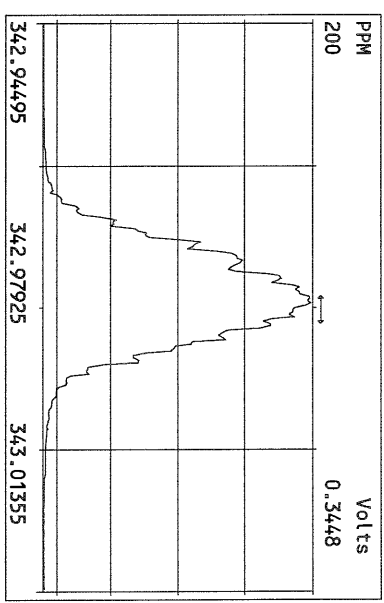
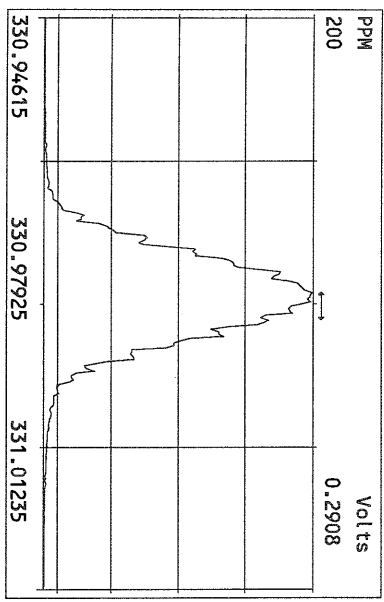
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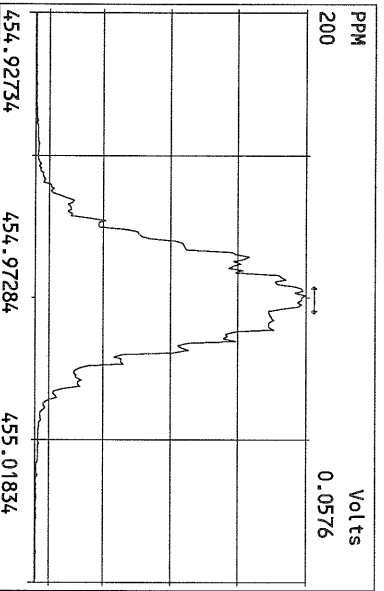
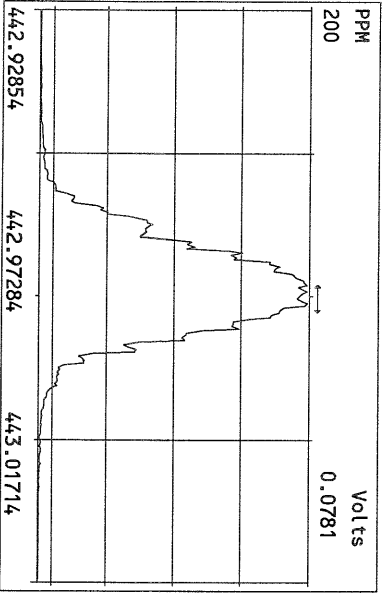
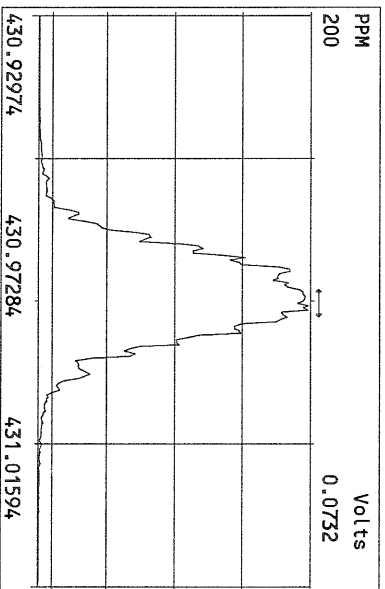
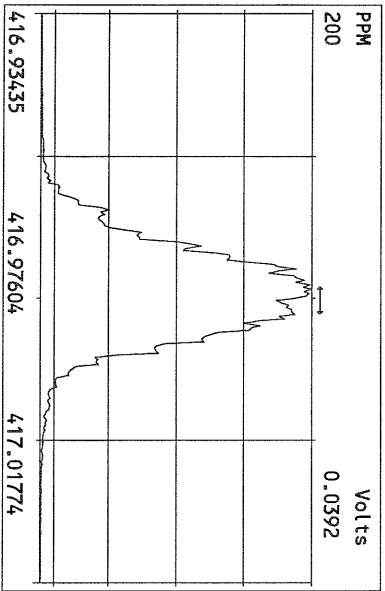
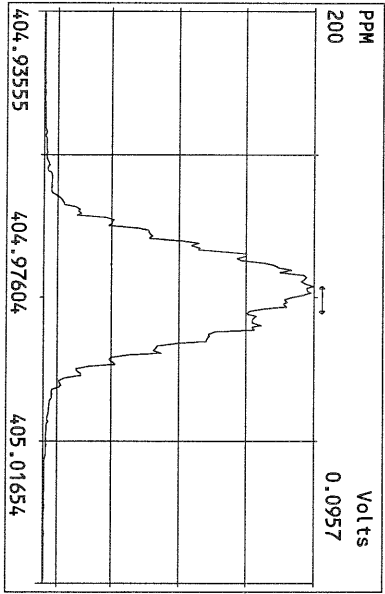
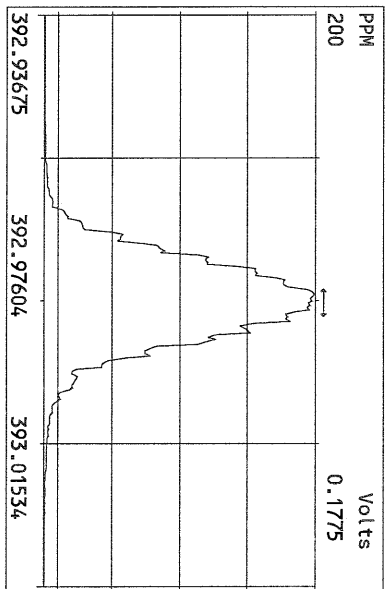
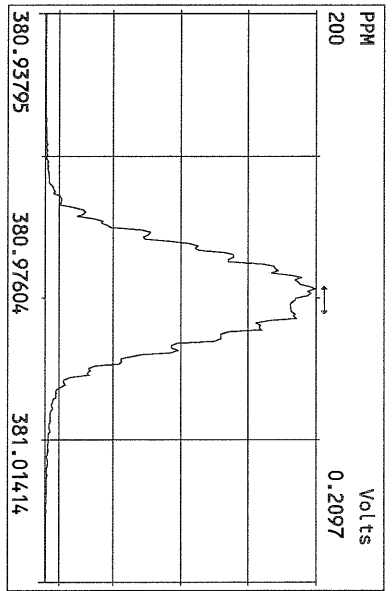
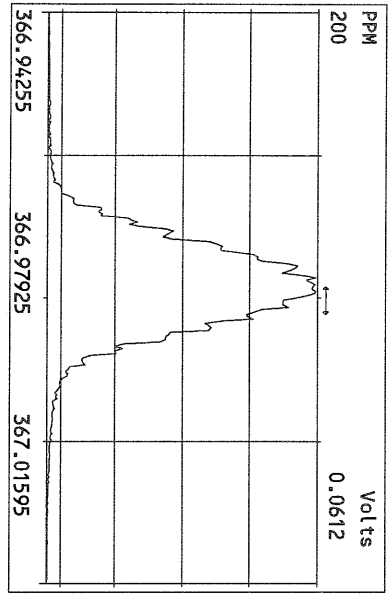
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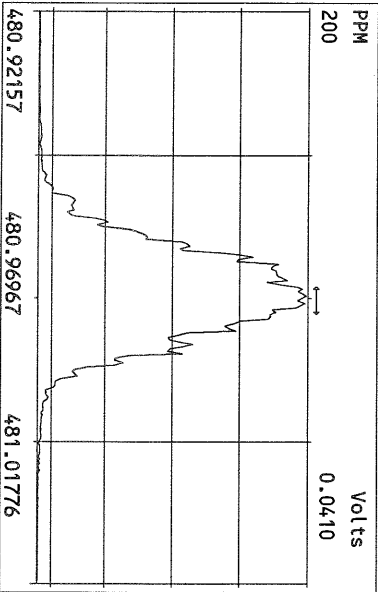
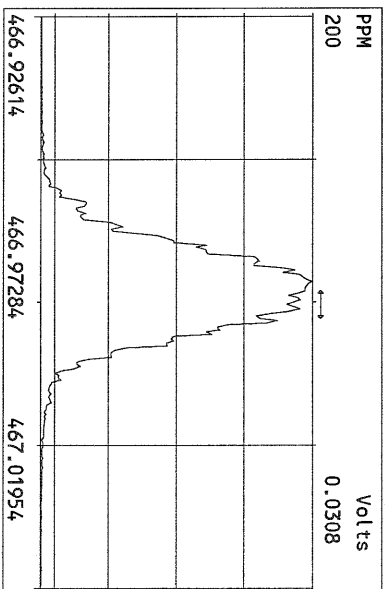
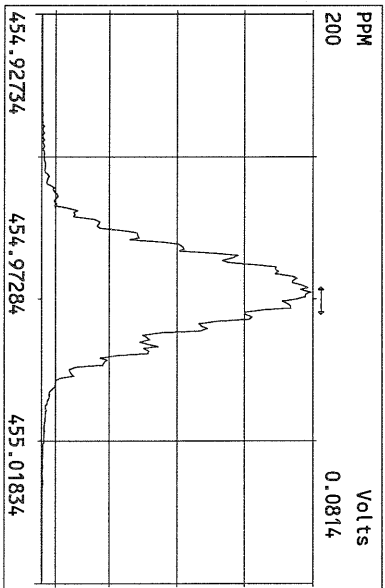
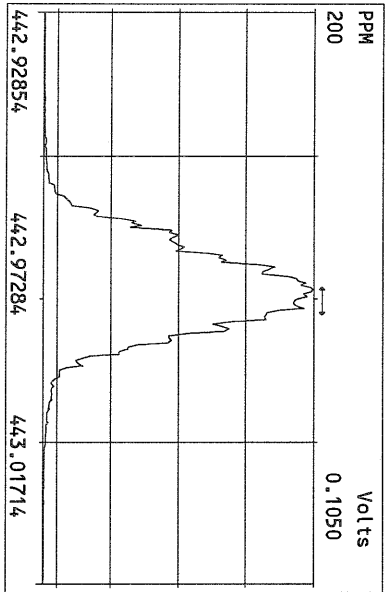
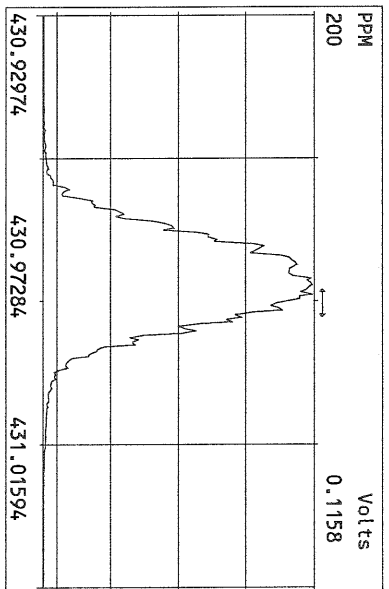
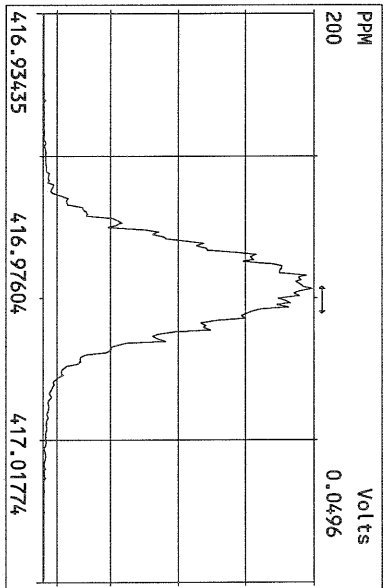
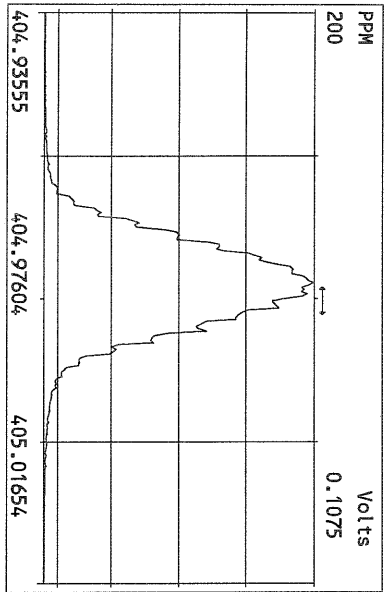
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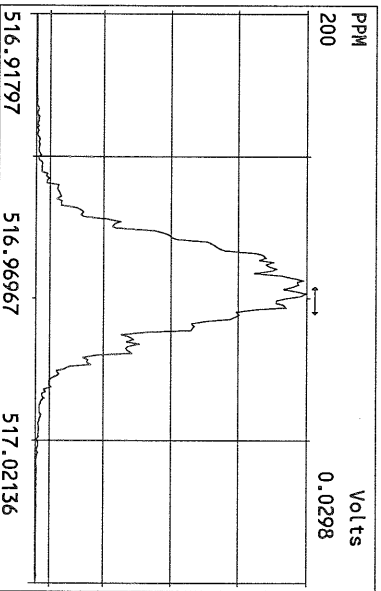
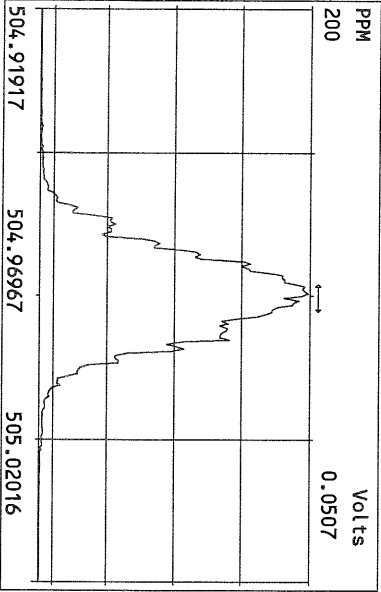
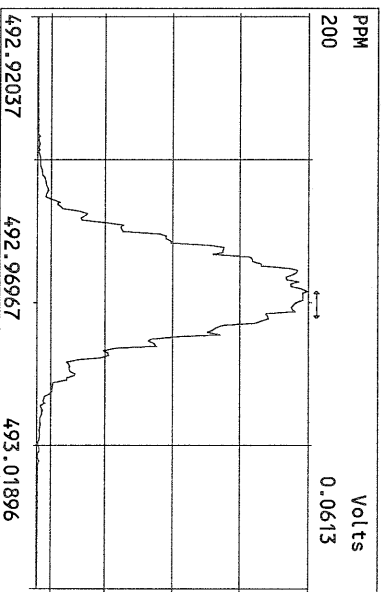
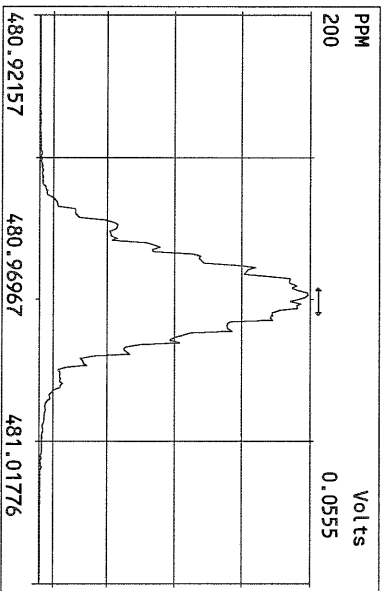
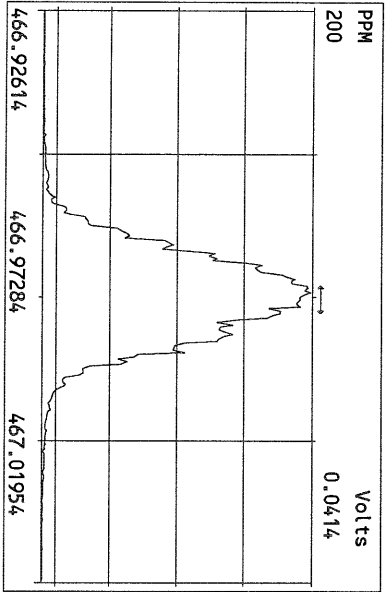
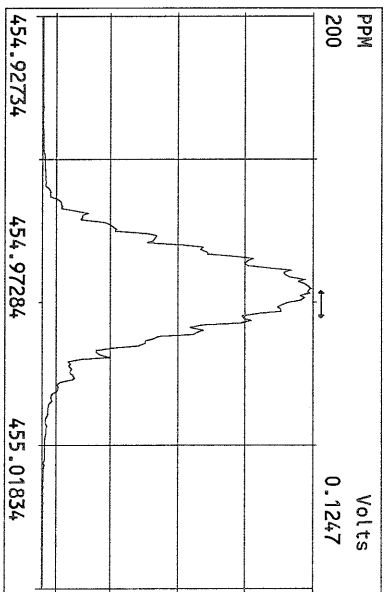
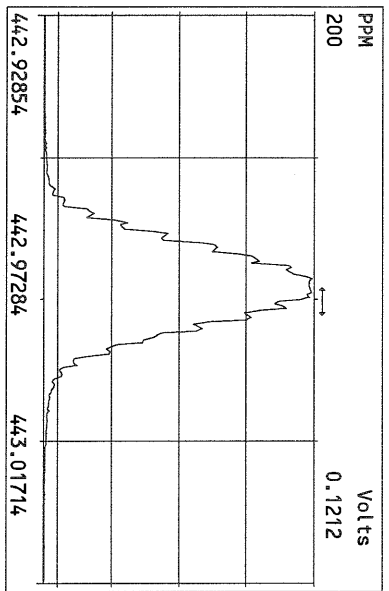
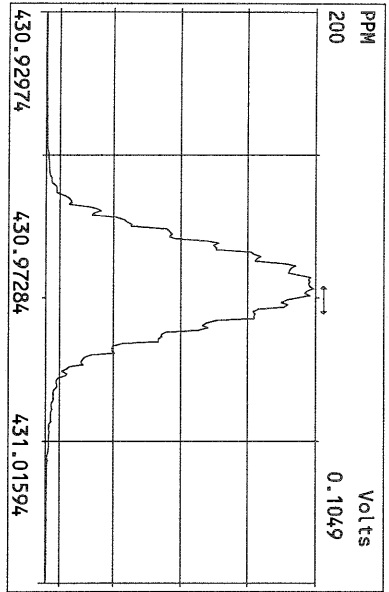
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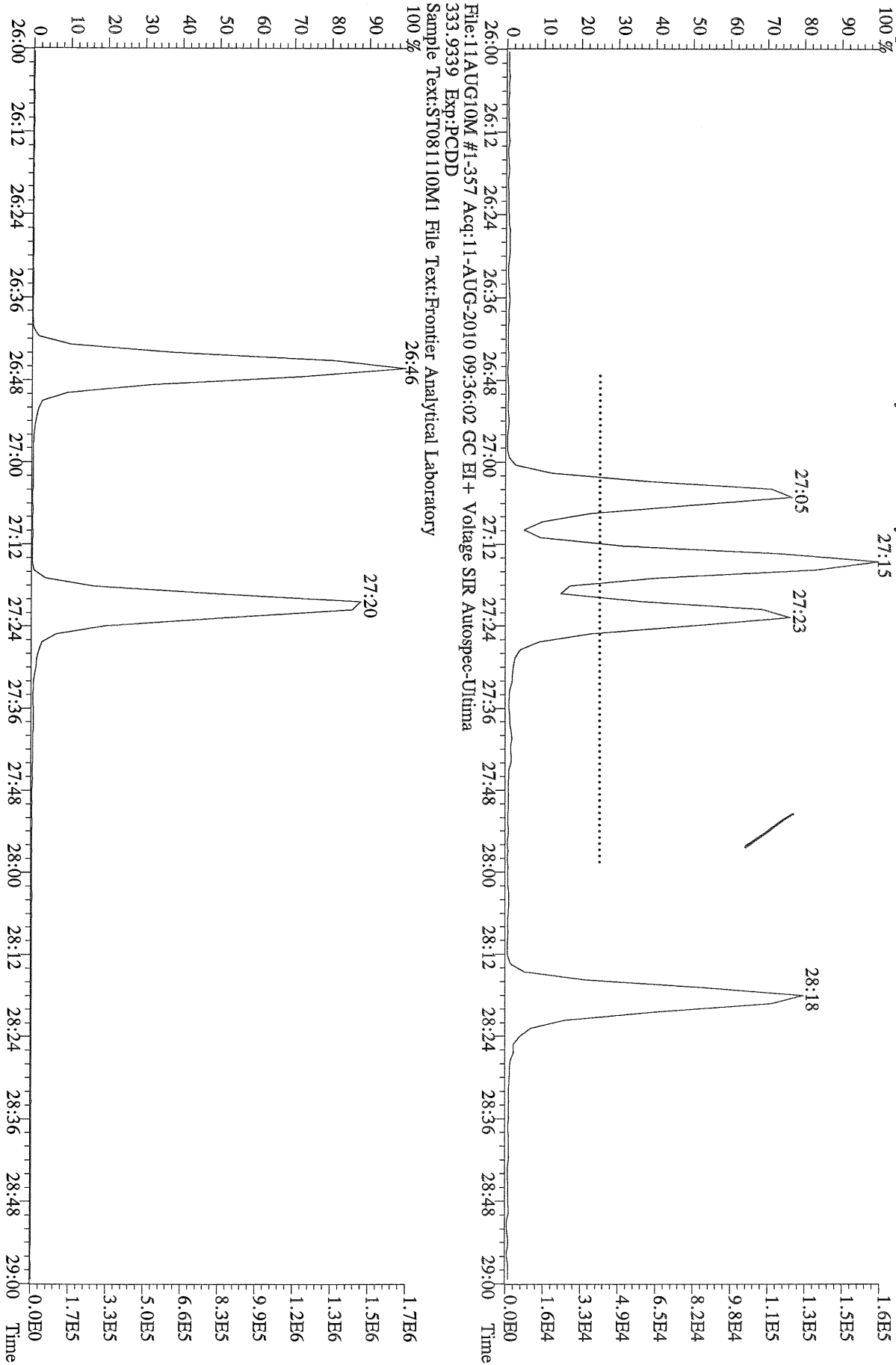






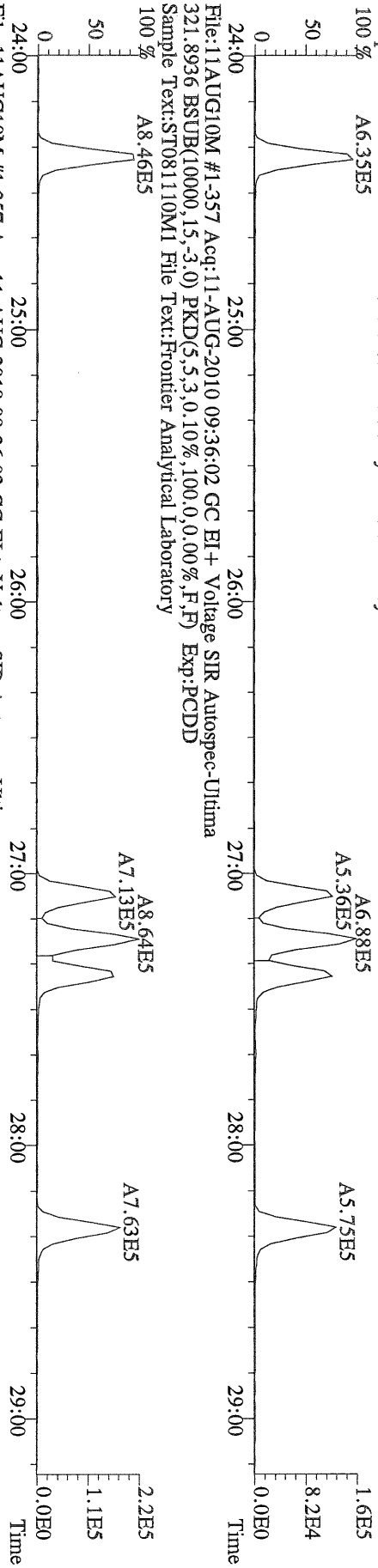


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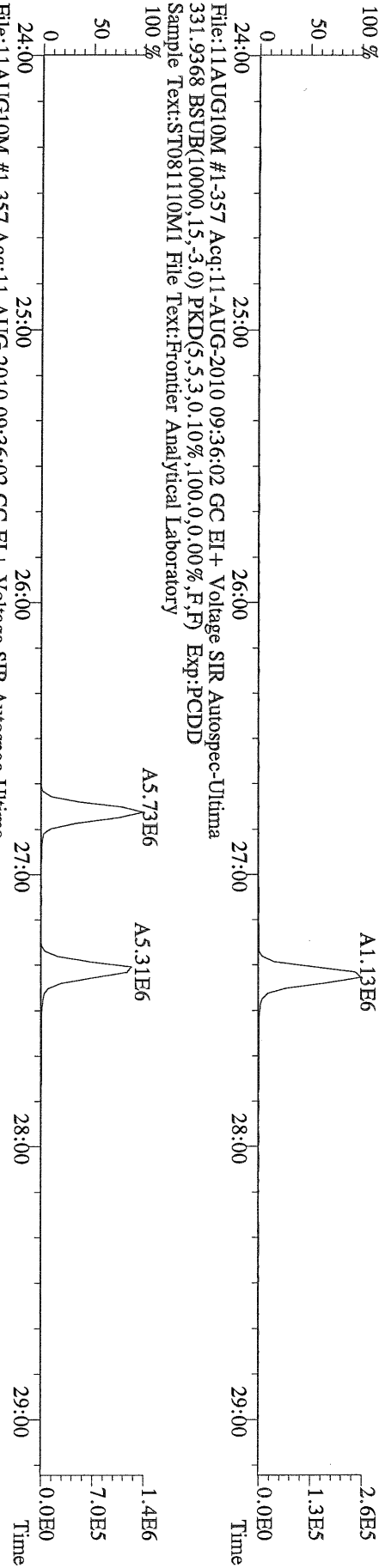


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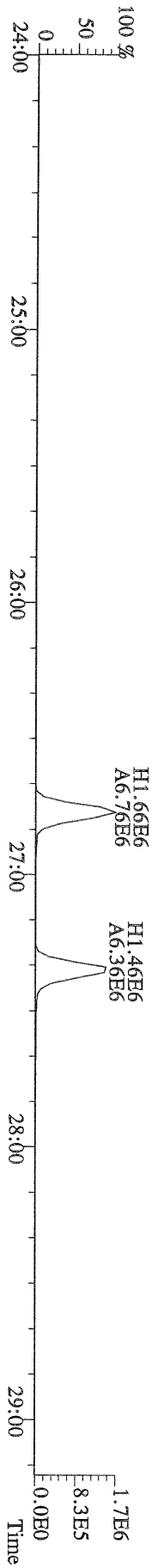
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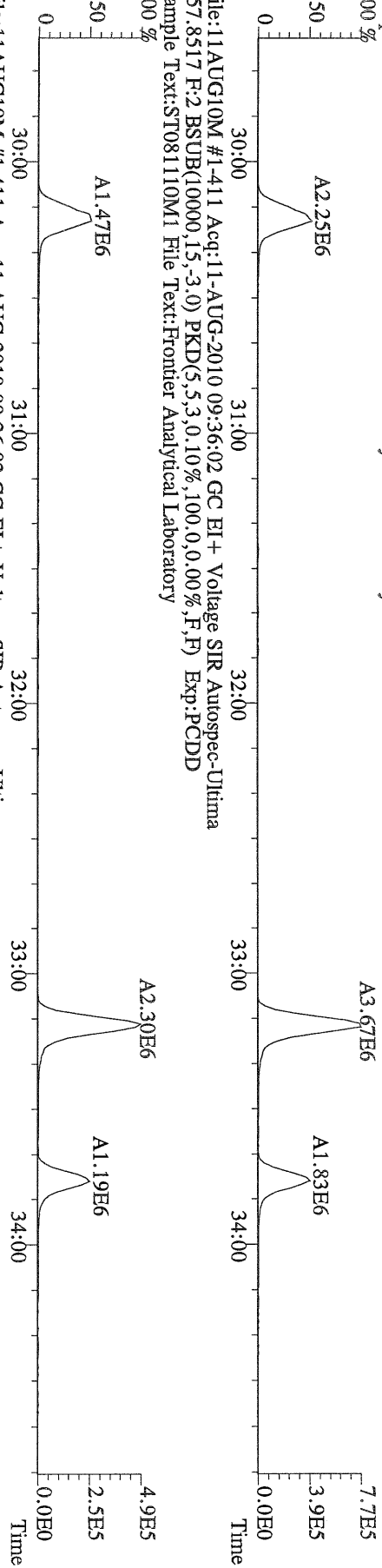
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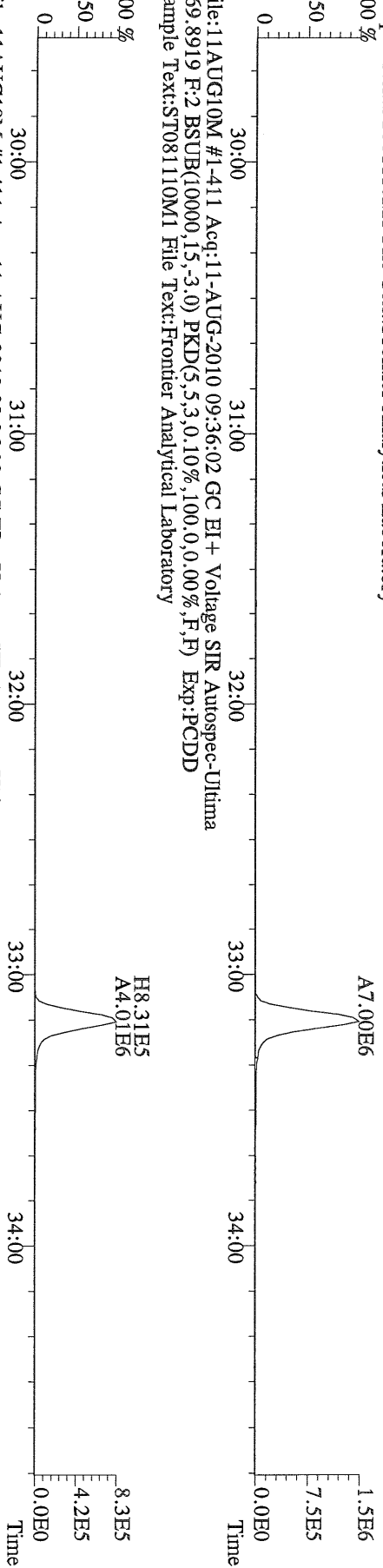
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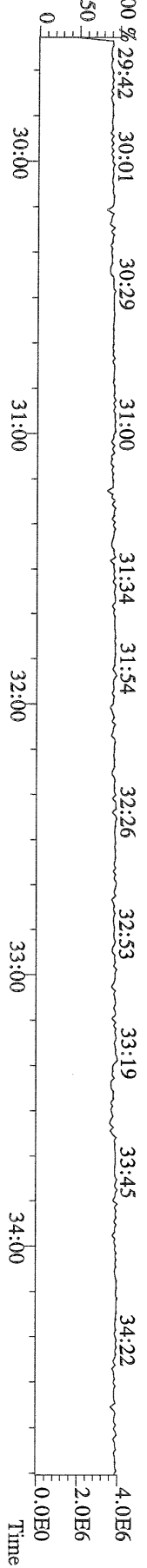
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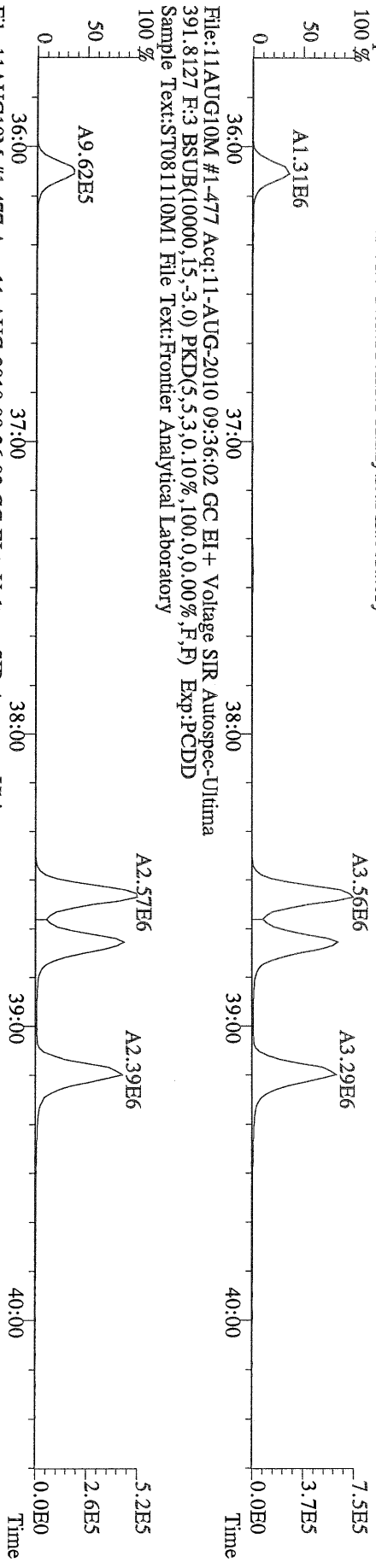
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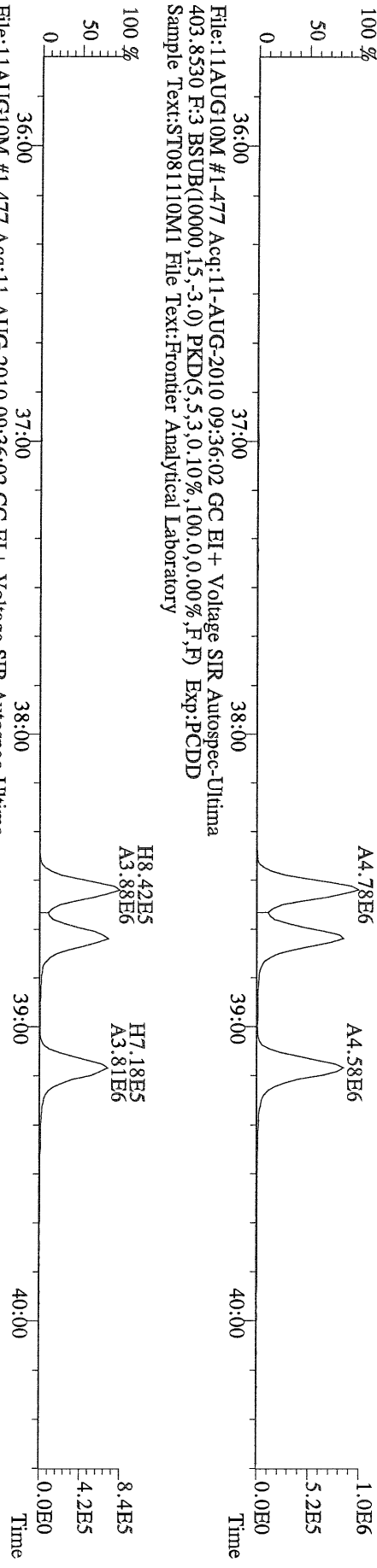
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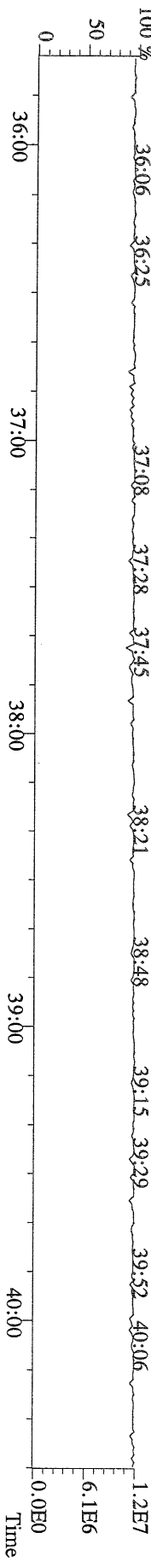
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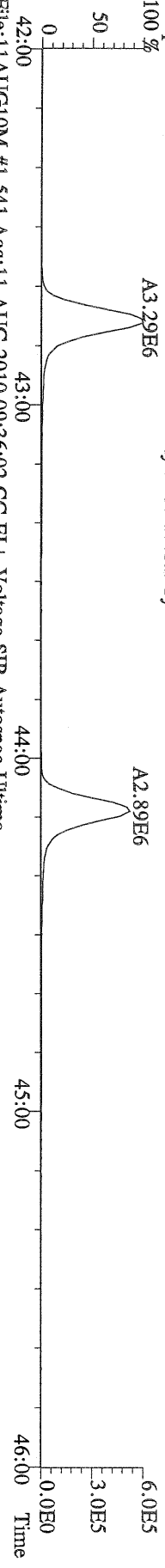
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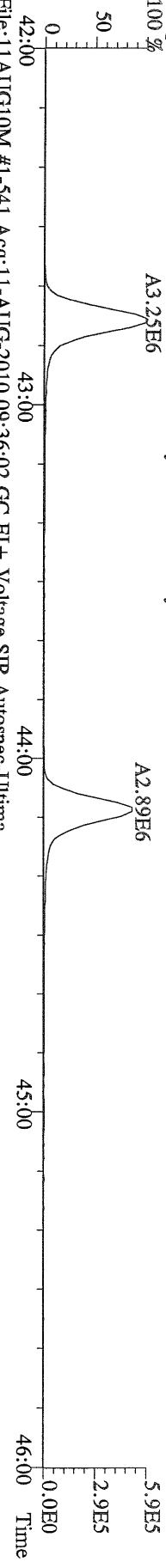
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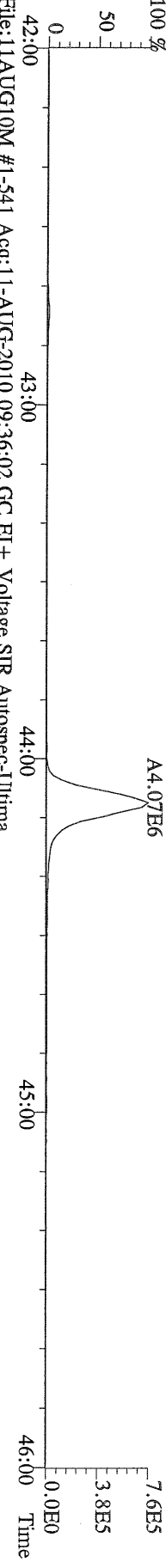
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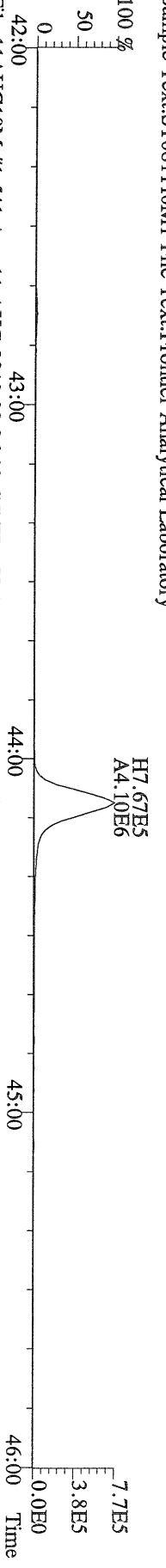
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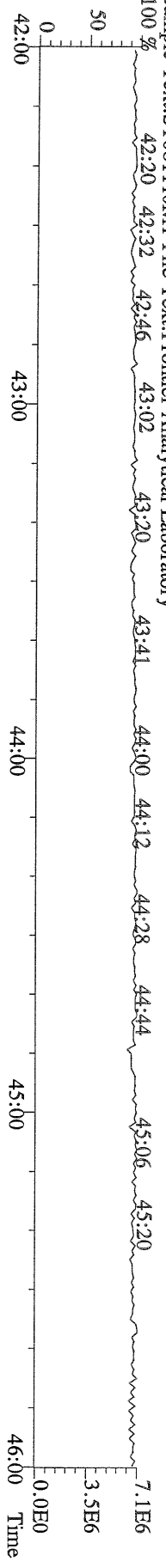
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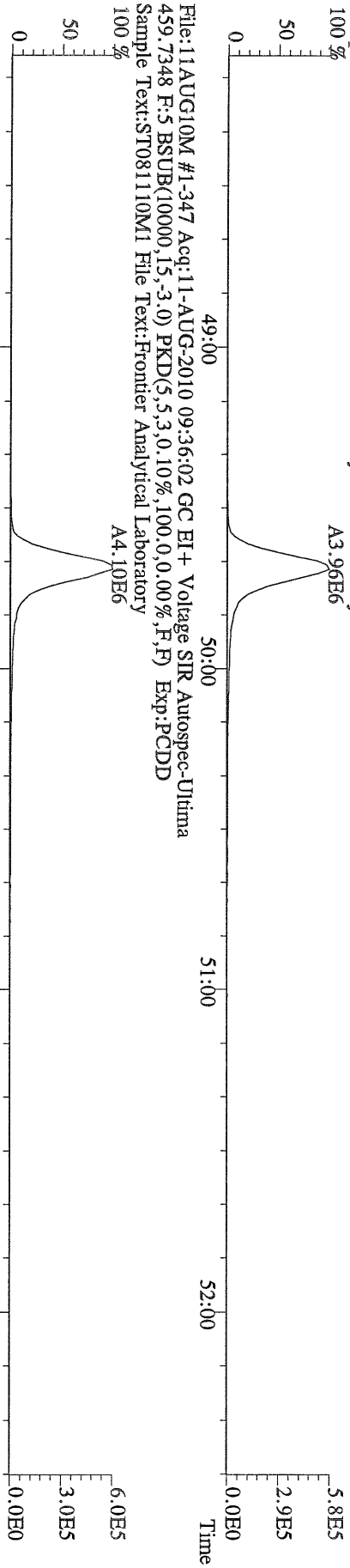
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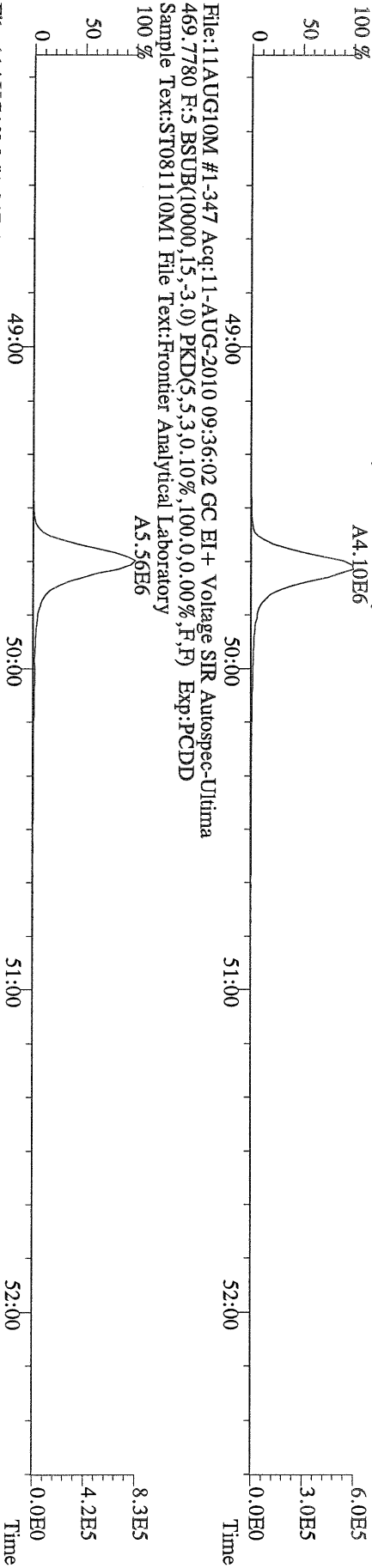
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100 %



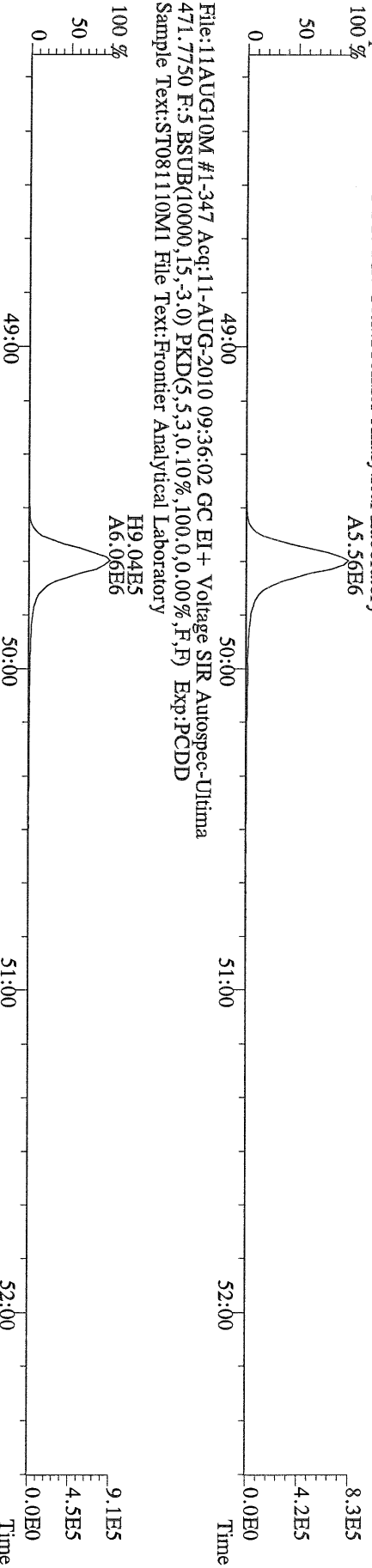
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457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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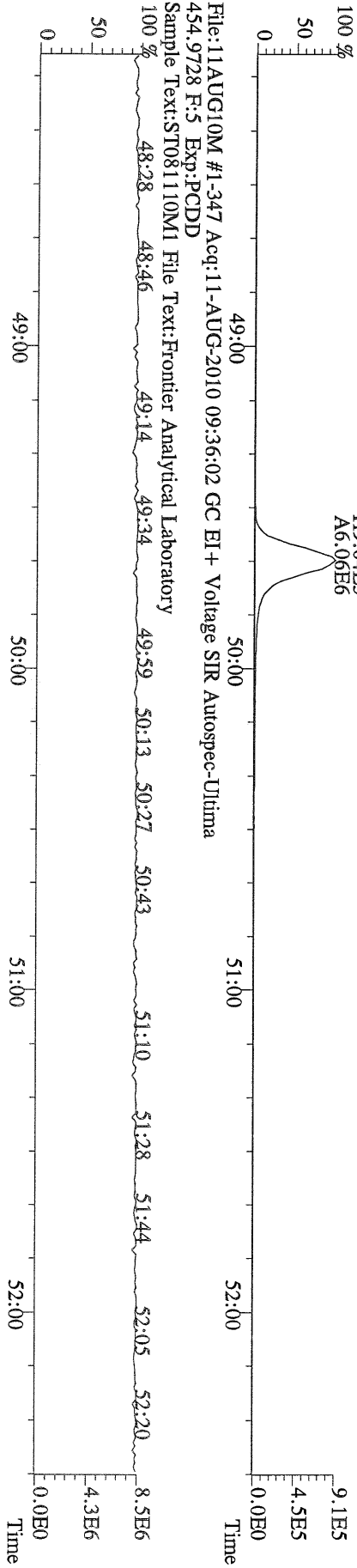
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



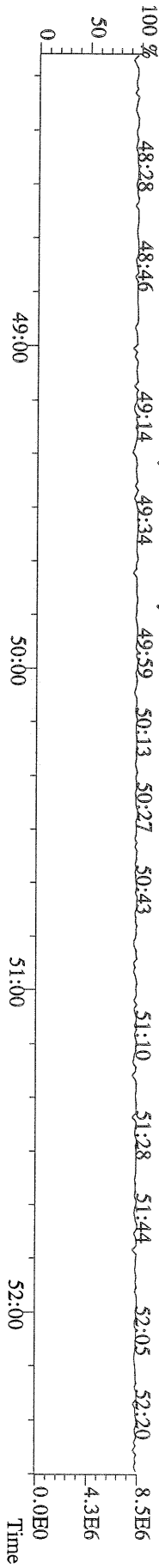
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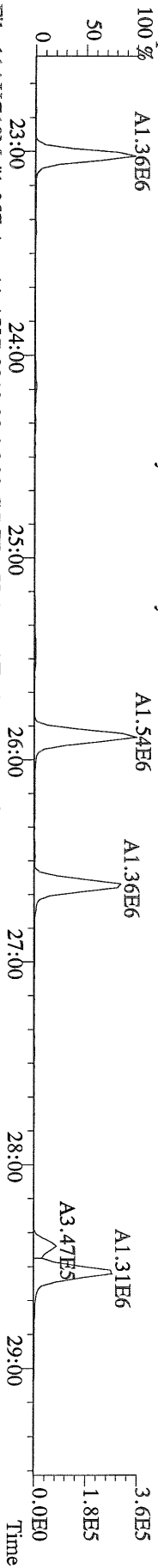
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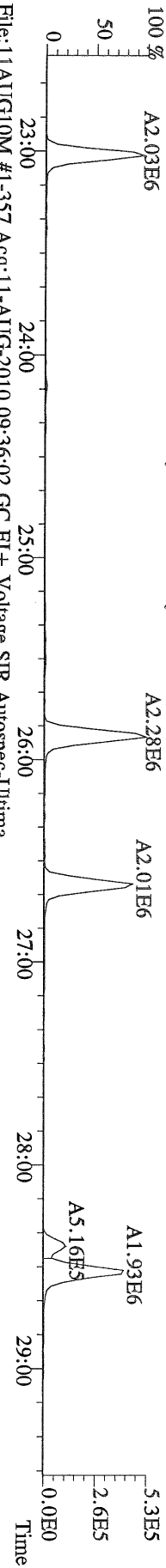
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454.9728 F:5 Exp:PCDD
Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



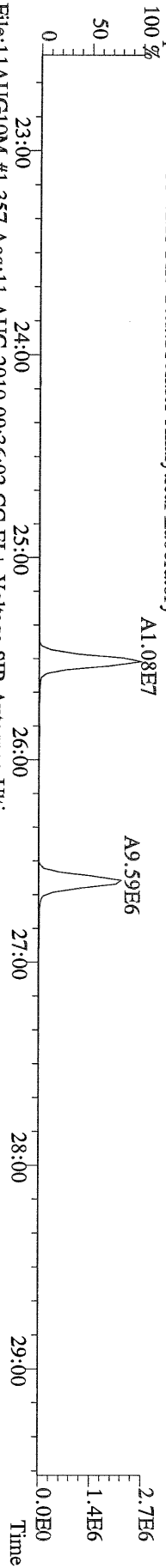
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303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



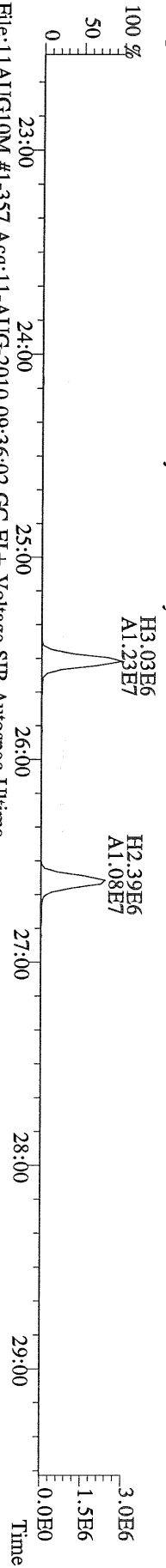
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305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



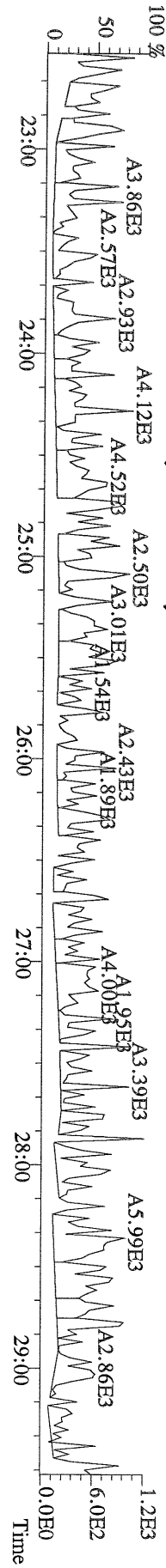
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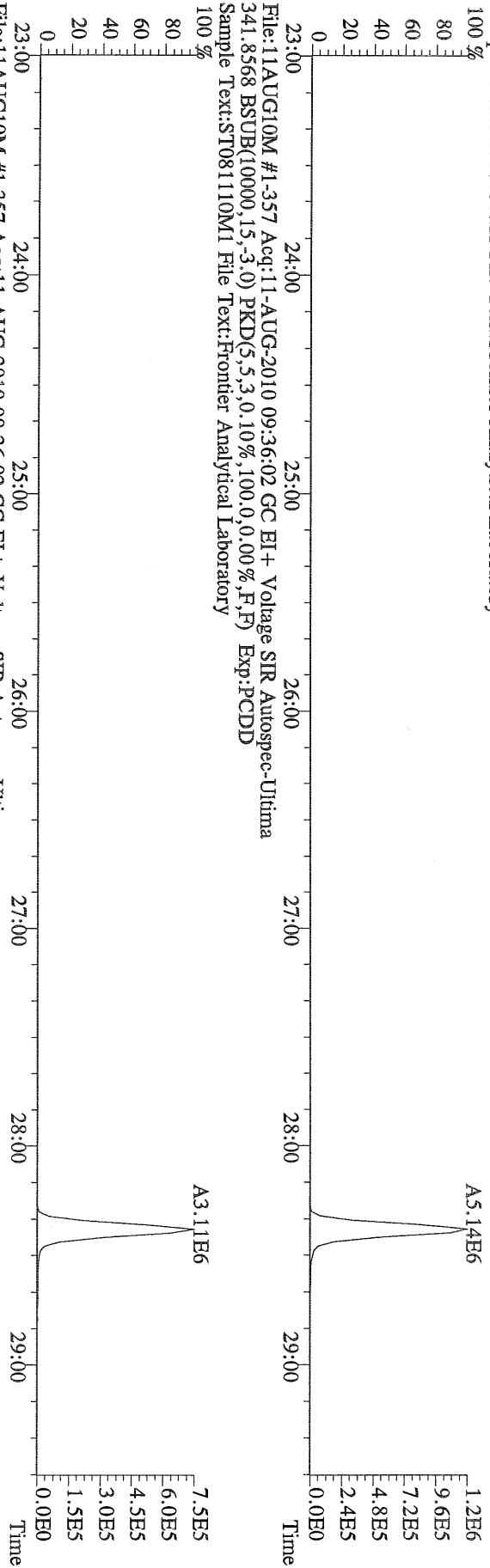
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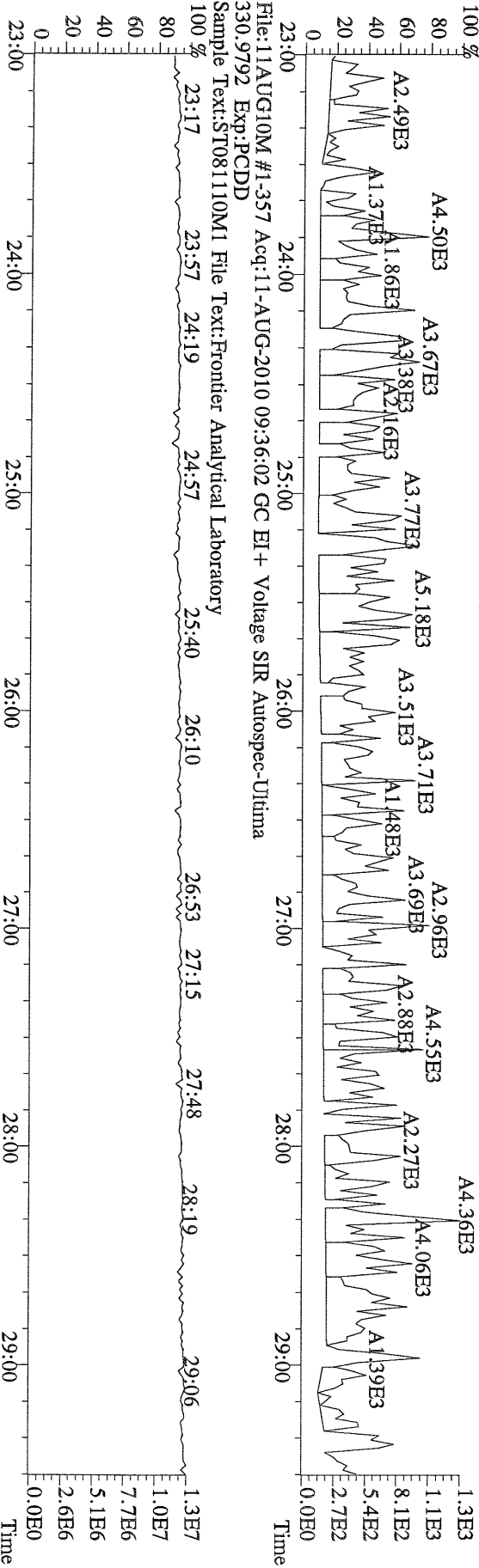
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



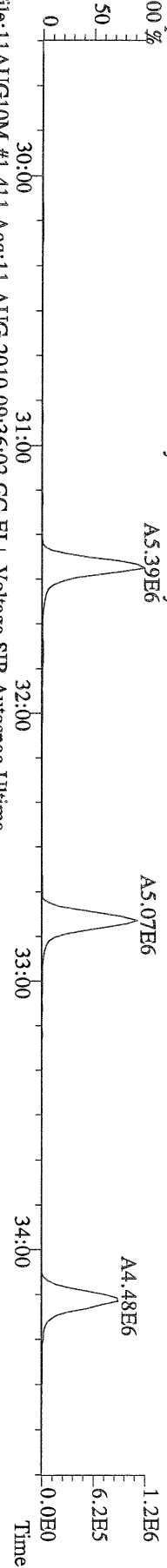
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 Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



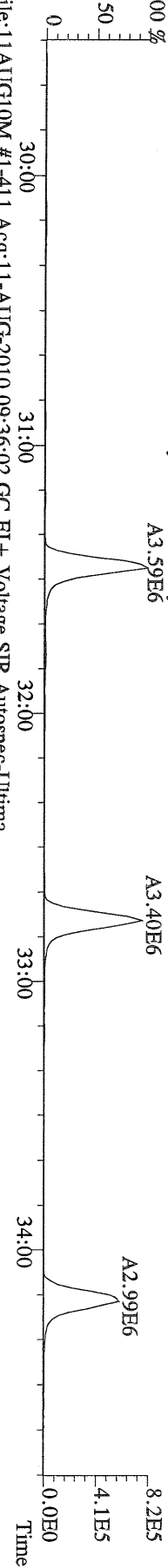
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 409.7974 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



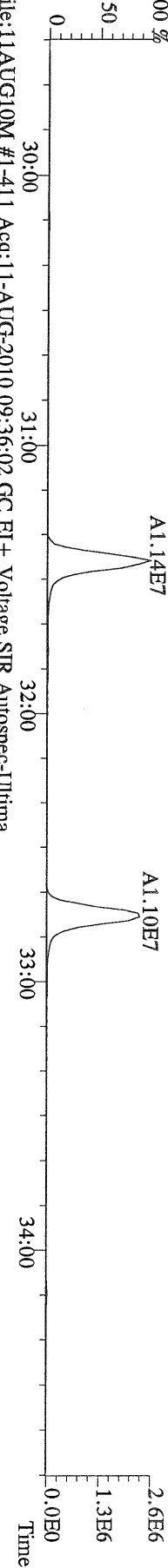
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



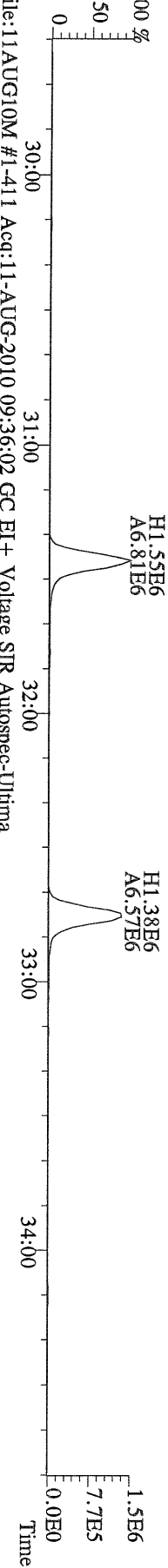
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341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



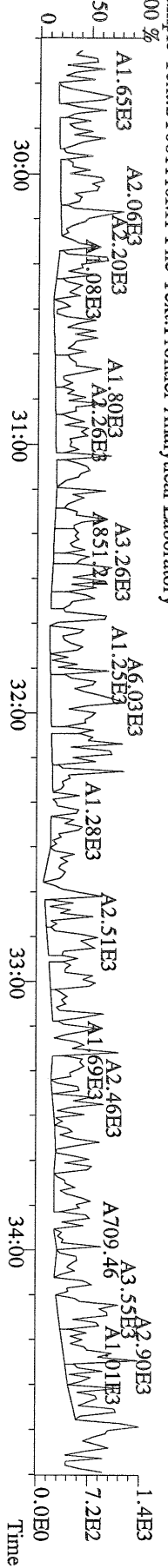
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351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



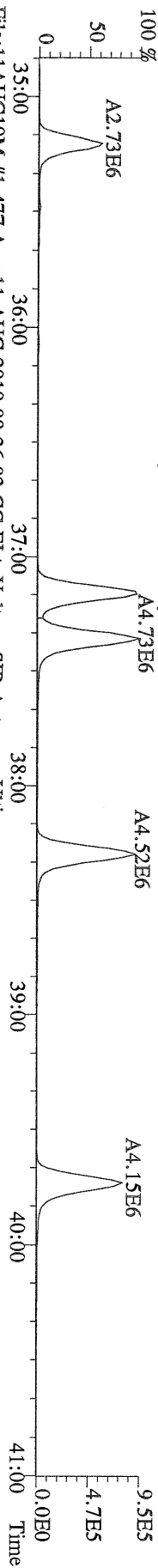
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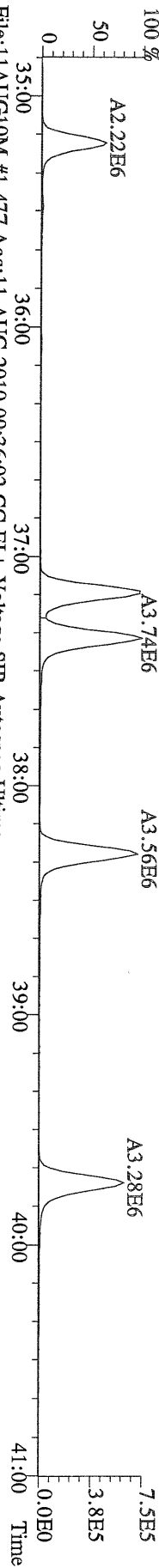
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



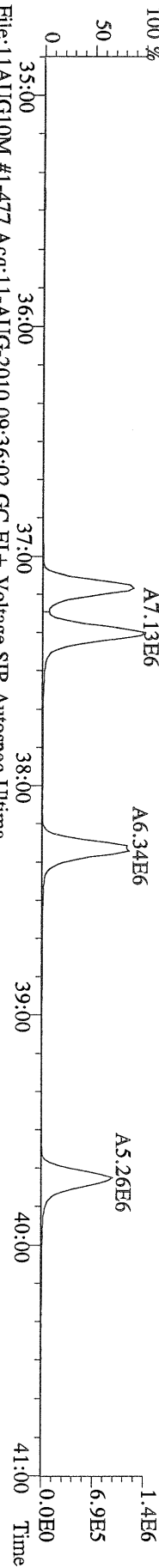
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 Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



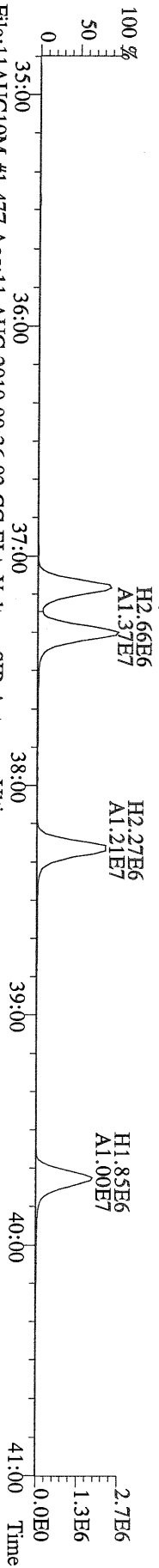
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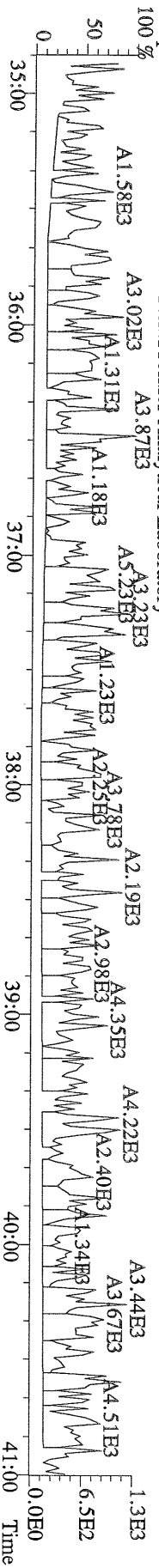
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 383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



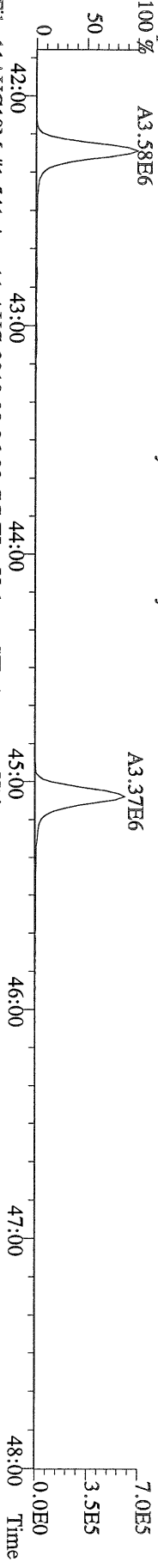
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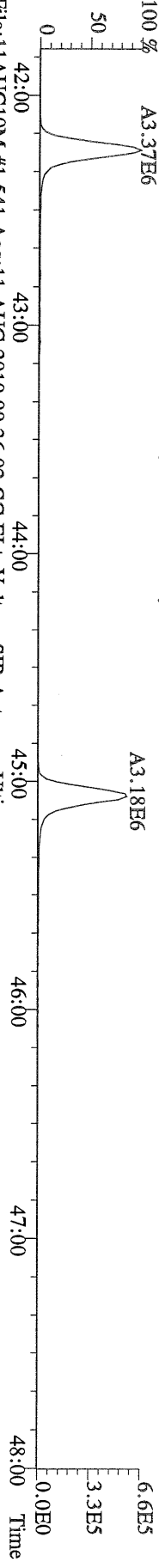
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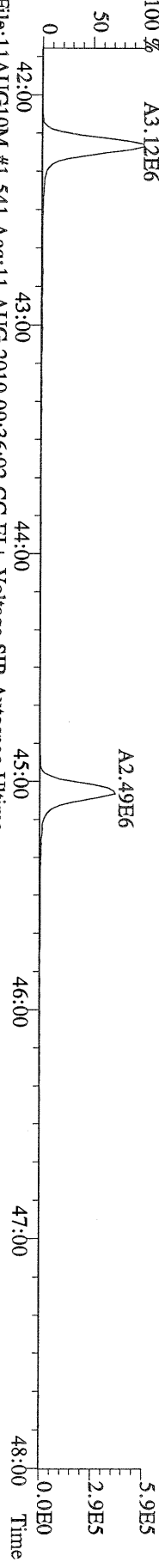
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407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



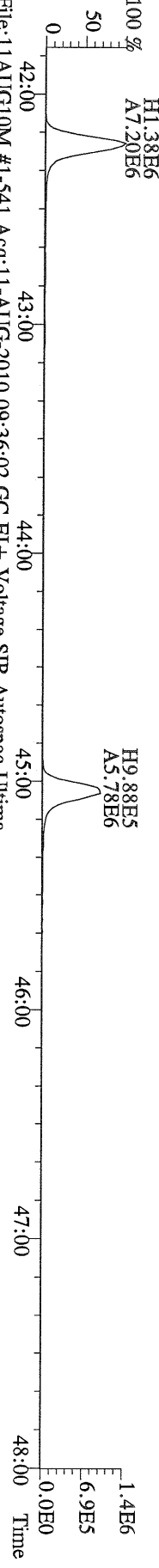
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



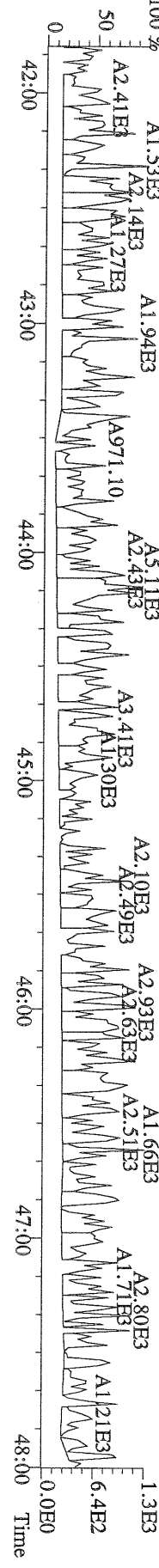
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



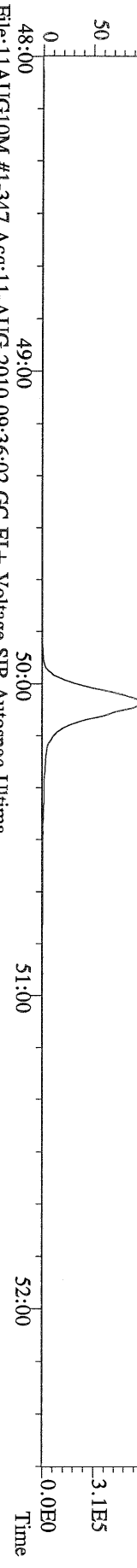
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419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



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479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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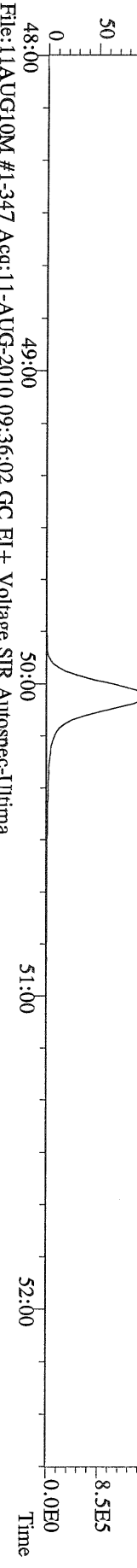
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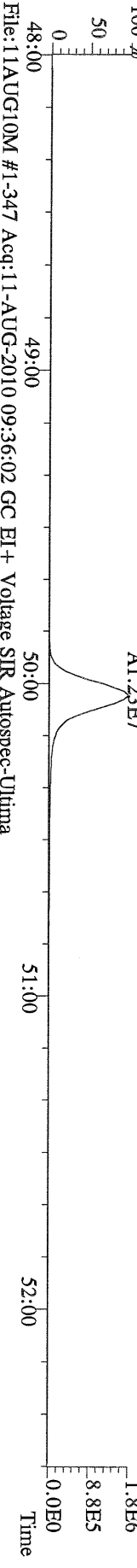
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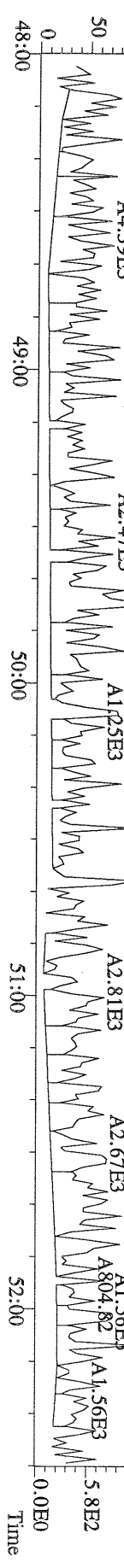
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory

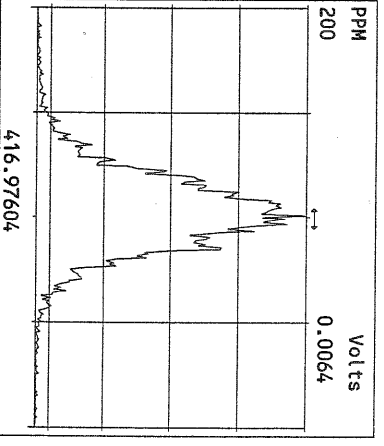
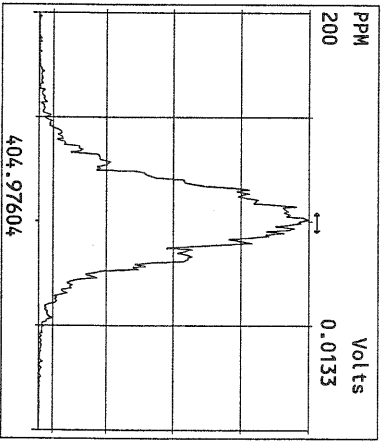
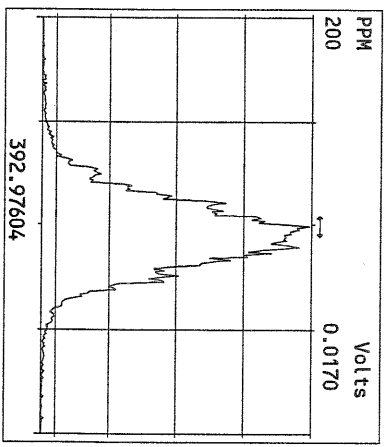
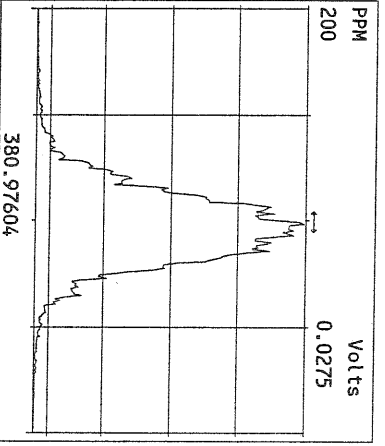
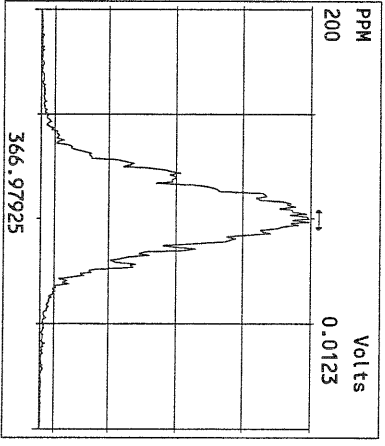
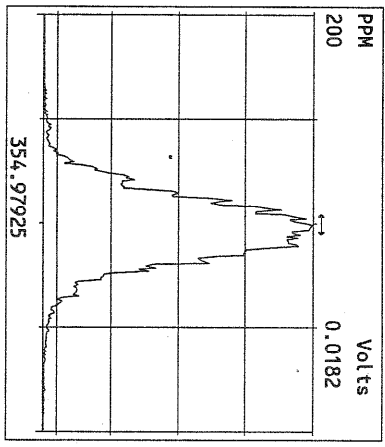
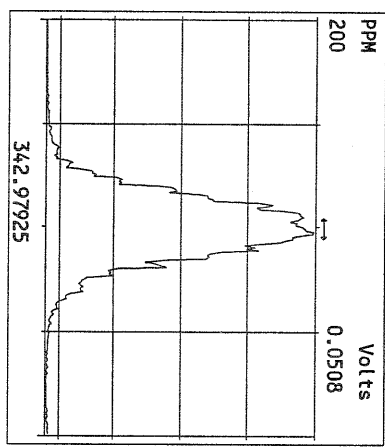
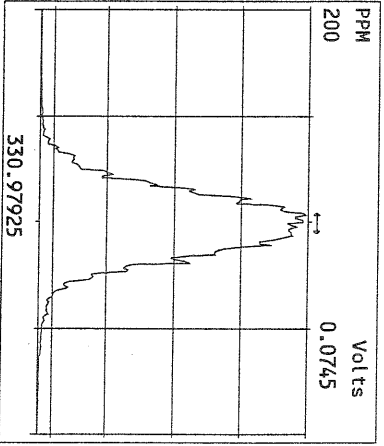
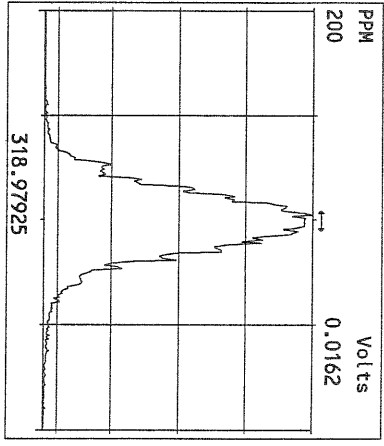
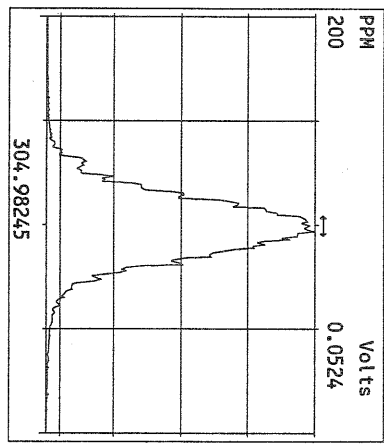
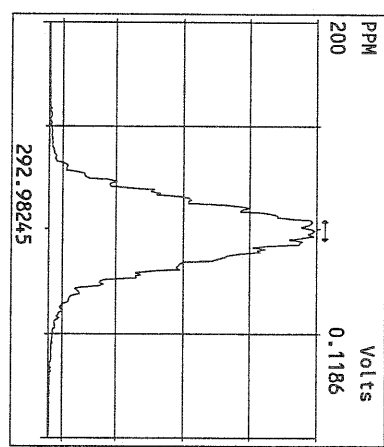


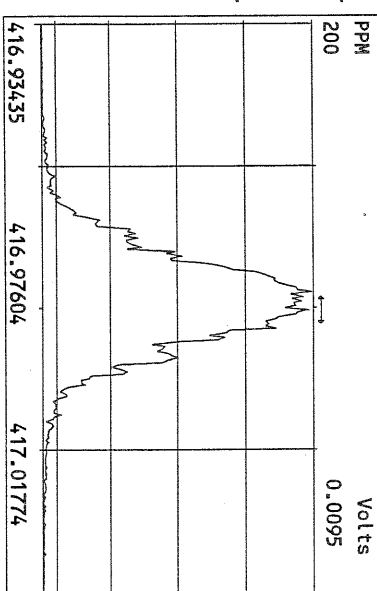
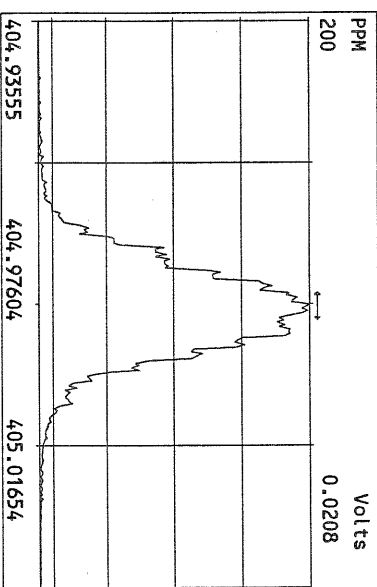
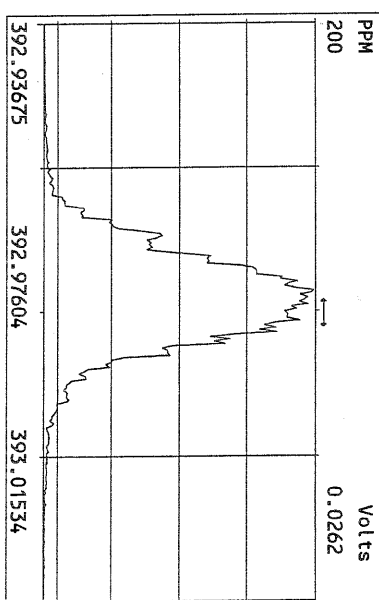
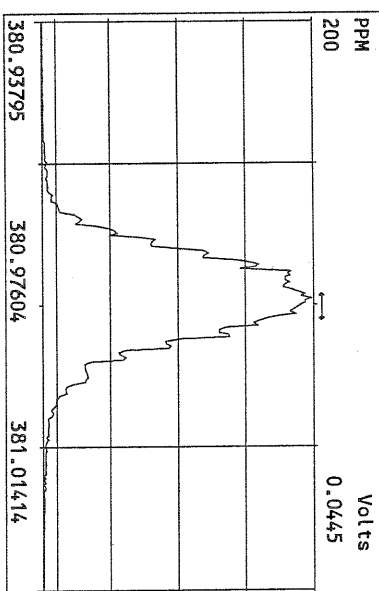
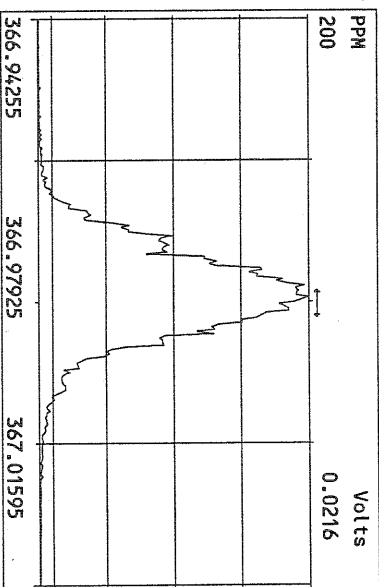
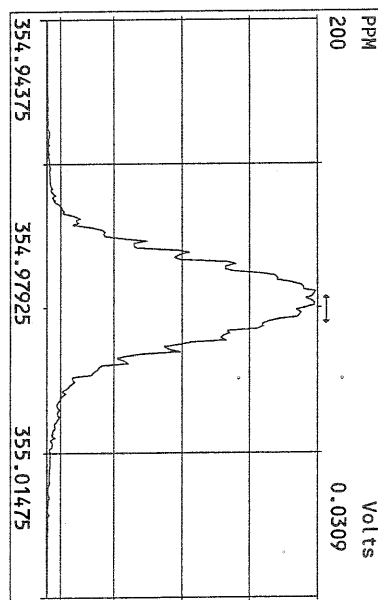
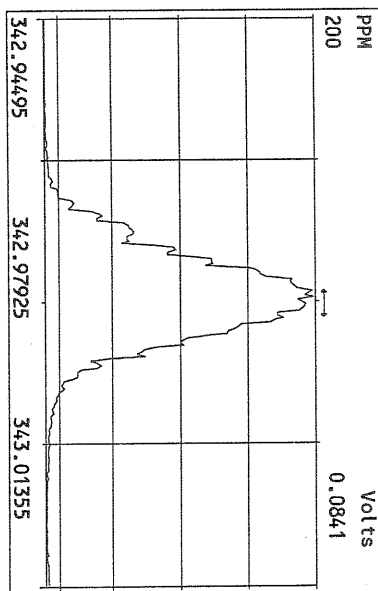
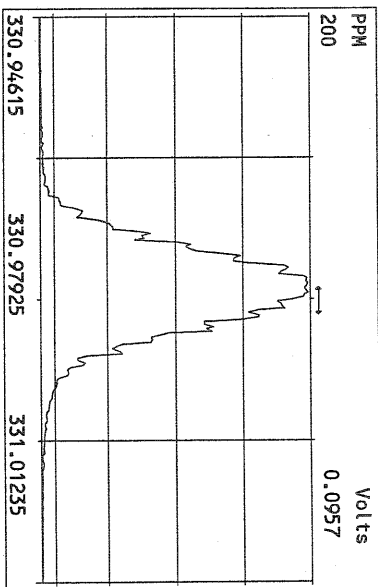
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory



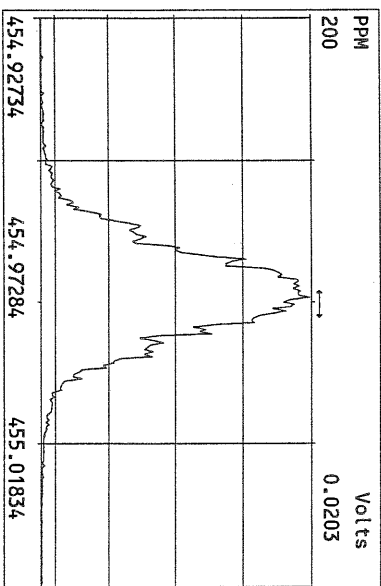
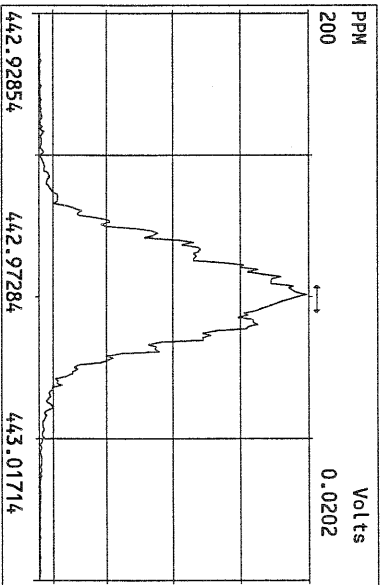
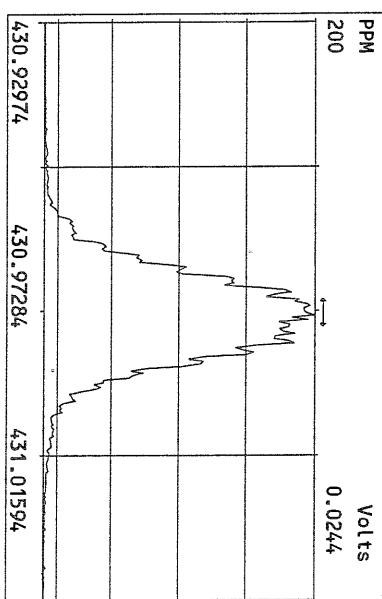
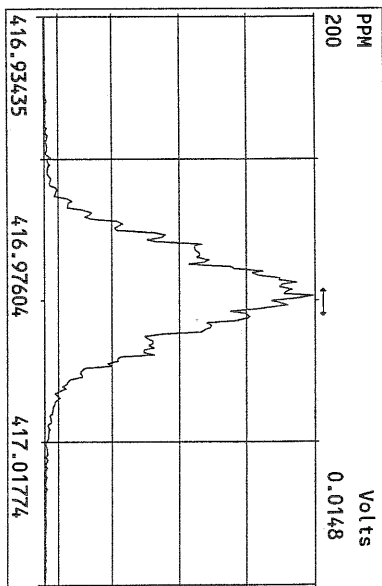
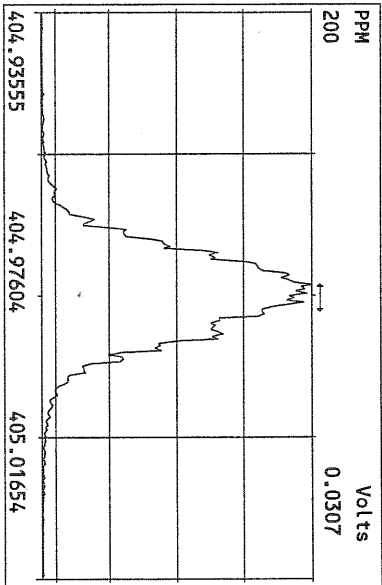
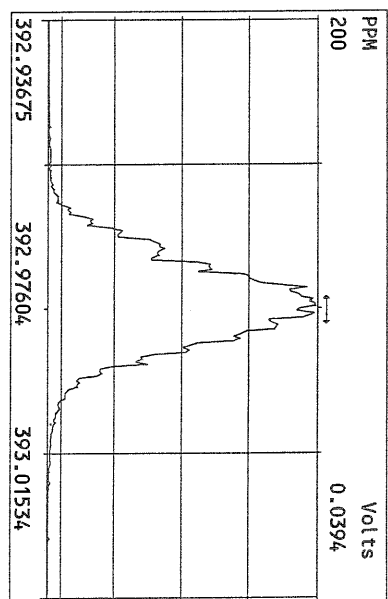
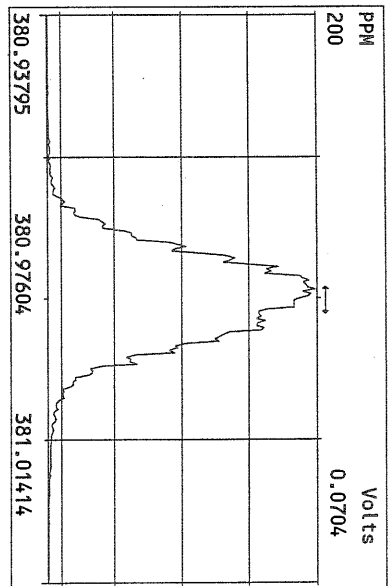
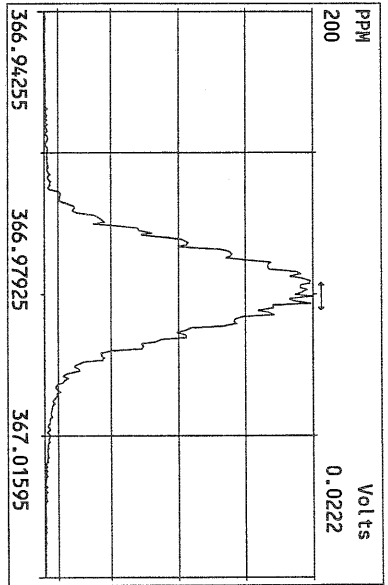
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Sample Text:ST081110M1 File Text:Frontier Analytical Laboratory

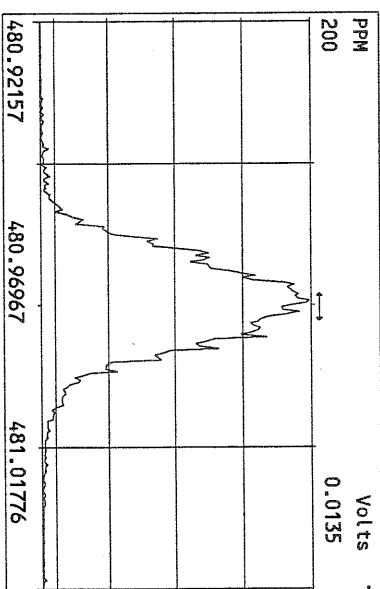
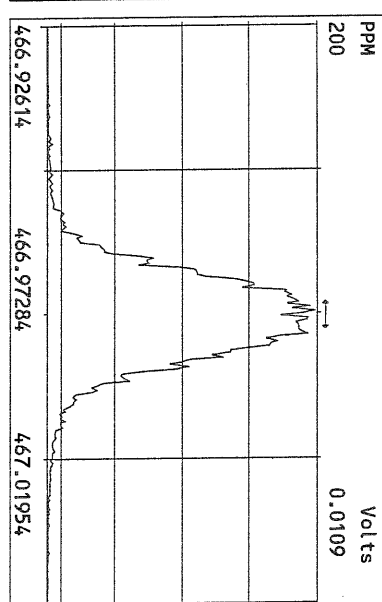
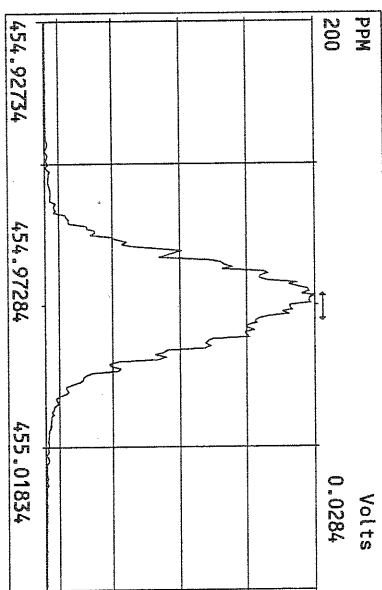
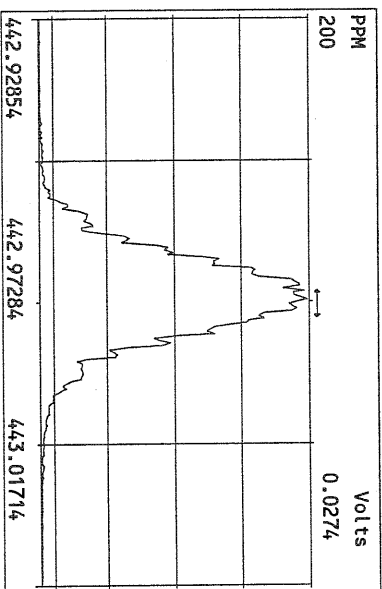
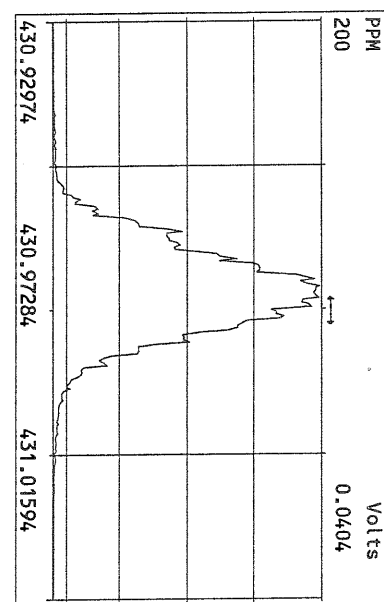
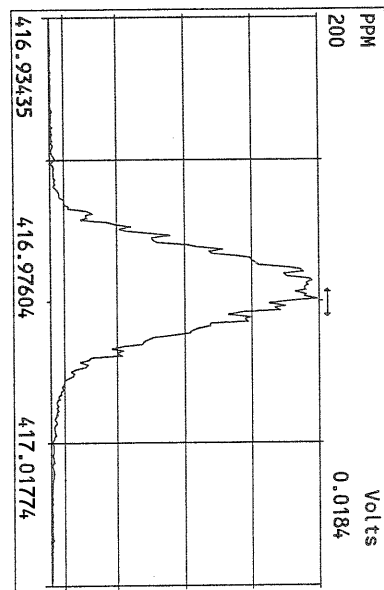
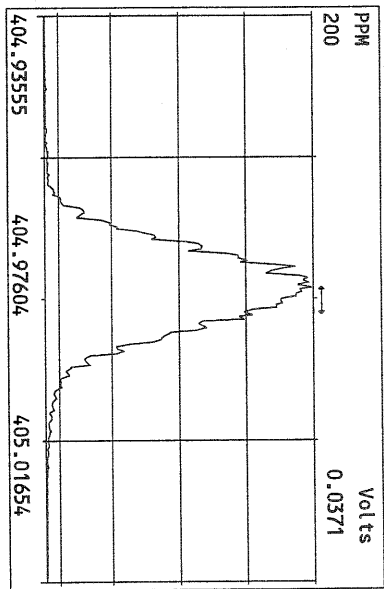


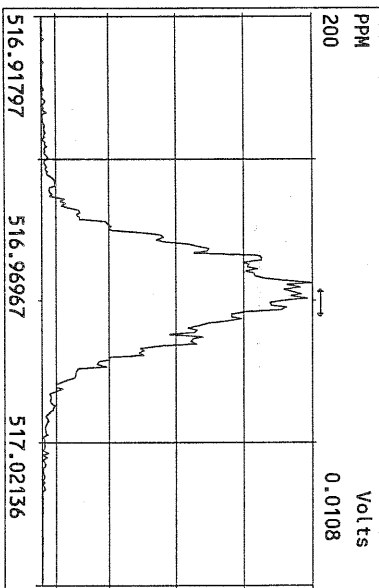
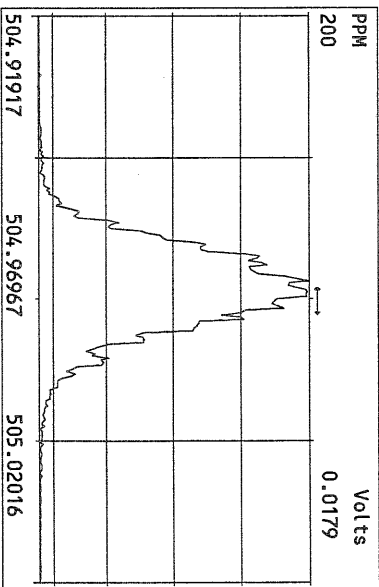
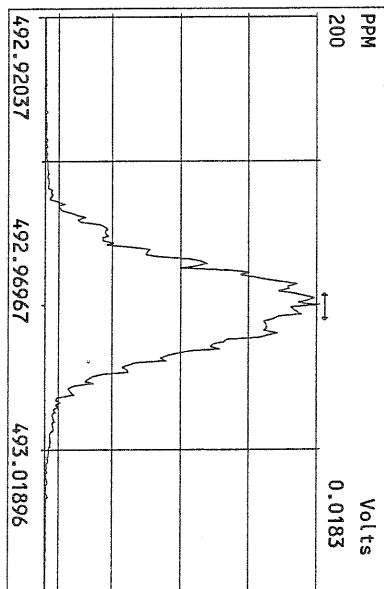
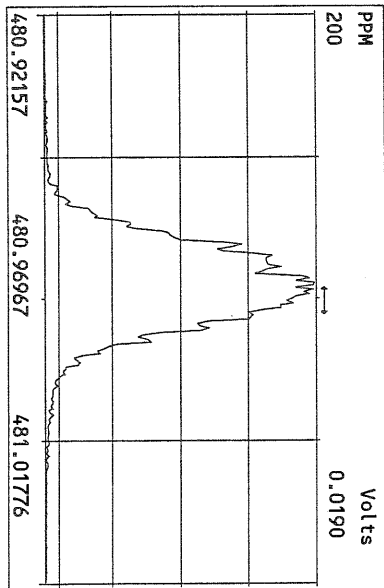
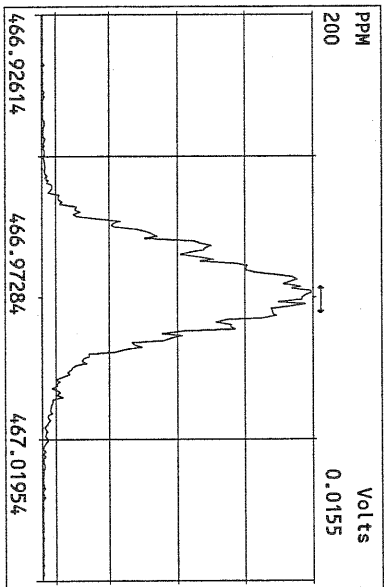
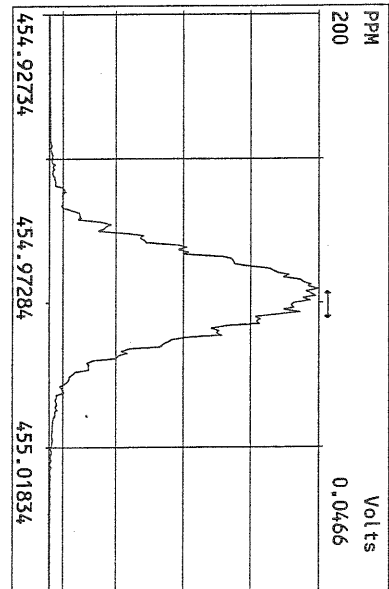
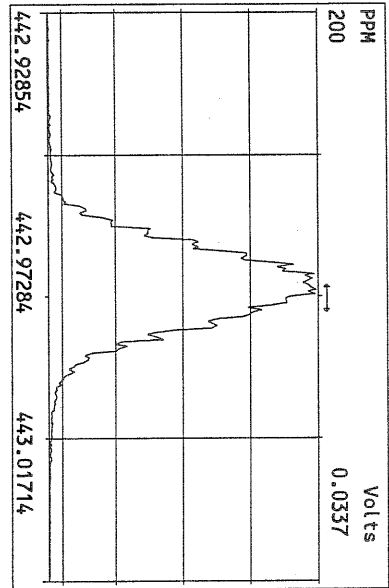
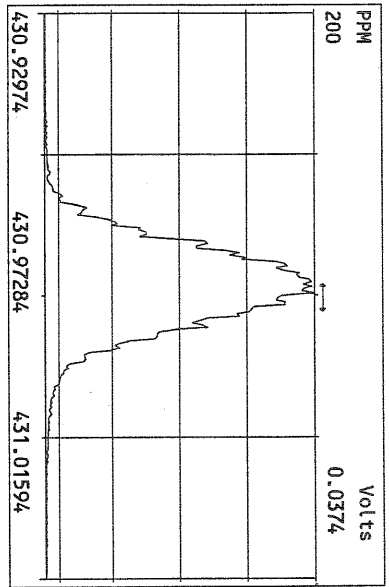




Peak Locate Examination:12-AUG-2010:09:41 File:11AUG10M_RES_CHECK
 Experiment:PCDD Function:3 Reference:PFK







USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 11AUG10M Sam:16

Analysis Date: 11-AUG-10 23:26:18

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	10.7	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32-1.78	y	53.7	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.38	1.05-1.43	y	55.5	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.42	1.05-1.43	y	56.5	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.40	1.05-1.43	y	58.8	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	54.3	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.97	0.76-1.02	y	113	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.67	0.65-0.89	y	10.3	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.32-1.78	y	53.9	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.32-1.78	y	52.2	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	48.7	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.3	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	49.6	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	49.8	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	49.5	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.09	0.88-1.20	y	51.8	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.85	0.76-1.02	y	94.4	63.0 - 159 ✓

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

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

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

Analyst: 

Date: 8/12/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 11AUG10M Sam:16

Analysis Date: 11-AUG-10 23:26:18

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.83	0.65-0.89	y	101	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.74	1.32-1.78	y	105	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	97.3	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	87.6	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	108	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.96	0.76-1.02	y	221	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	103	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	91.4	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.70	1.32-1.78	y	96.7	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	123	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	115	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	119	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	125	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	117	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	124	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.96	0.76-1.02	y	250	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.77	7.80 - 12.8 ✓

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

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

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

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

Analyst: 

Date: 8/12/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 11-AUG-10 23:26:18

CS3 or VER Data Filename: 11AUG10M

Sam:16

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001 ✓
OCDD	13C-OCDD	1.000	0.999-1.001 ✓
OCDF	13C-OCDF	1.000	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.989	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154 ✓
13C-OCDD		1.269	1.032-1.311 ✓
13C-OCDF		1.279	1.000-1.311 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 8/12/10

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		DL
					Conc	Qual	Fac	Noise-1	
2,3,7,8-TCDD	1.45e+06	0.77 y	27:24	1.04	10.7	2.50	-	-	*
1,2,3,7,8-PeCDD	6.65e+06	1.59 y	33:12	1.05	53.7	2.50	-	-	*
1,2,3,4,7,8-HxCDD	6.40e+06	1.38 y	38:35	1.30	55.5	2.50	-	-	*
1,2,3,6,7,8-HxCDD	6.07e+06	1.42 y	38:44	1.28	56.5	2.50	-	-	*
1,2,3,7,8,9-HxCDD	6.34e+06	1.40 y	39:11	1.25	58.8	2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	7.07e+06	1.04 y	44:10	1.35	54.3	2.50	-	-	*
OCDD	9.49e+06	0.97 y	49:43	1.25	113	2.50	-	-	*

2,3,7,8-TCDF	3.88e+06	0.67 y	26:39	1.62	10.3	2.50	-	-	*
1,2,3,7,8-PeCDF	9.54e+06	1.49 y	31:29	0.92	53.9	2.50	-	-	*
2,3,4,7,8-PeCDF	9.40e+06	1.48 y	32:48	0.94	52.2	2.50	-	-	*
1,2,3,4,7,8-HxCDF	9.35e+06	1.27 y	37:11	0.93	48.7	2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.01e+07	1.26 y	37:23	0.84	50.3	2.50	-	-	*
2,3,4,6,7,8-HxCDF	9.23e+06	1.25 y	38:19	0.90	49.6	2.50	-	-	*
1,2,3,7,8,9-HxCDF	8.79e+06	1.23 y	39:45	0.98	49.8	2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	8.48e+06	1.09 y	42:16	1.38	49.5	2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	8.23e+06	1.09 y	45:05	1.62	51.8	2.50	-	-	*
OCDF	1.00e+07	0.85 y	50:05	0.74	94.4	2.50	-	-	*

										Rec
13C-2,3,7,8-TCDD	1.31e+07	0.83 y	27:22	0.93	101					101
13C-1,2,3,7,8-PeCDD	1.18e+07	1.74 y	33:11	0.81	105					105
13C-1,2,3,4,7,8-HxCDD	8.88e+06	1.23 y	38:32	0.95	97.3					97.3
13C-1,2,3,6,7,8-HxCDD	8.41e+06	1.25 y	38:42	1.00	87.6					87.6
13C-1,2,3,4,6,7,8-HpCDD	9.61e+06	1.03 y	44:09	0.92	108					108
13C-OCDD	1.35e+07	0.96 y	49:42	0.63	221					111
13C-2,3,7,8-TCDF	2.34e+07	0.86 y	26:38	0.87	103					103
13C-1,2,3,7,8-PeCDF	1.93e+07	1.66 y	31:27	0.81	91.4					91.4
13C-2,3,4,7,8-PeCDF	1.90e+07	1.70 y	32:47	0.75	96.7					96.7
13C-1,2,3,4,7,8-HxCDF	2.06e+07	0.52 y	37:09	1.74	123					123
13C-1,2,3,6,7,8-HxCDF	2.41e+07	0.52 y	37:21	2.17	115					115
13C-2,3,4,6,7,8-HxCDF	2.08e+07	0.53 y	38:18	1.82	119					119
13C-1,2,3,7,8,9-HxCDF	1.79e+07	0.51 y	39:44	1.49	125					125
13C-1,2,3,4,6,7,8-HpCDF	1.24e+07	0.44 y	42:15	1.10	117					117
13C-1,2,3,4,7,8,9-HpCDF	9.78e+06	0.44 y	45:04	0.81	124					124
13C-OCDF	2.86e+07	0.96 y	50:04	1.19	250					125
37Cl-2,3,7,8-TCDD	1.27e+06		27:24	0.93	9.77					97.7
13C-1,2,3,4-TCDD	1.40e+07	0.85 y	26:48	-	41.3					
13C-1,2,3,4-TCDF	2.62e+07	0.88 y	25:33	-	49.1					
13C-1,2,3,7,8,9-HxCDD	9.64e+06	1.20 y	39:09	-	44.7					

										Fac	Noise-1	Noise-2	DL	#Hom
Total Tetra-Dioxins	8.13e+06		23:13	1.04	59.7	2.50	-	-	*	22				
Total Penta-Dioxins	1.45e+07		29:54	1.05	117	2.50	-	-	*	10				
Total Hexa-Dioxins	2.15e+07		36:06	1.27	195	2.50	-	-	*	10				
Total Hepta-Dioxins	1.50e+07		42:47	1.35	115	2.50	-	-	*	15				
Total Tetra-Furans	1.67e+07		23:03	1.62	44.2	2.50	-	-	*	17				
1st Fn. Tot Penta-Furans	9.22e+06		28:25	0.93	51.7	2.50	-	-	*	PeCDF 1				
Total Penta-Furans	2.81e+07		30:12	0.93	157	2.50	-	-	*	209 17				
Total Hexa-Furans	4.36e+07		35:13	0.90	231	2.50	-	-	*	20				
Total Hepta-Furans	1.69e+07		42:16	1.48	103	2.50	-	-	*	9				

Analyst: 

Date: 8/12/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:11AUG10M

Instrument: FAL3

GC: DB5

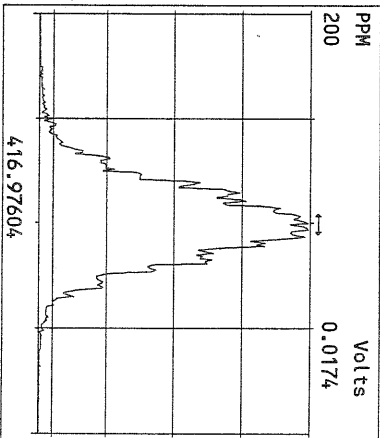
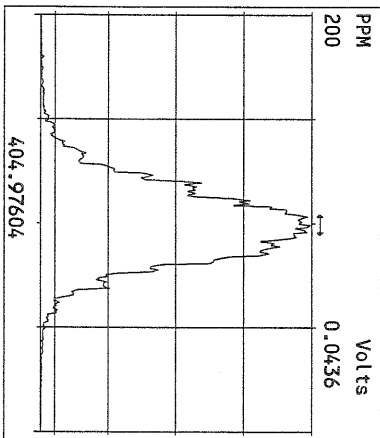
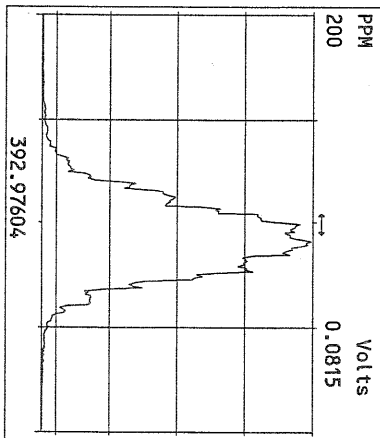
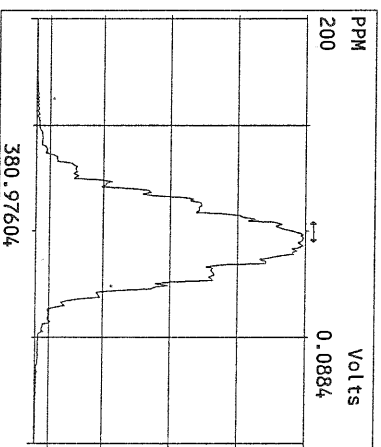
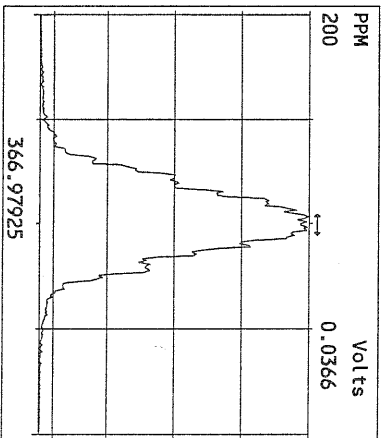
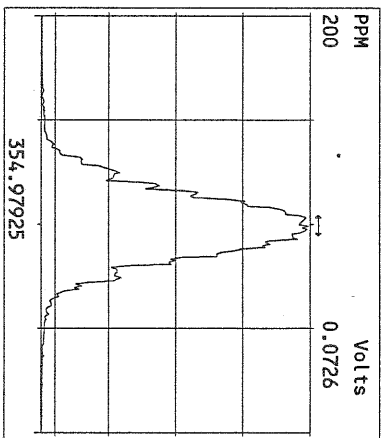
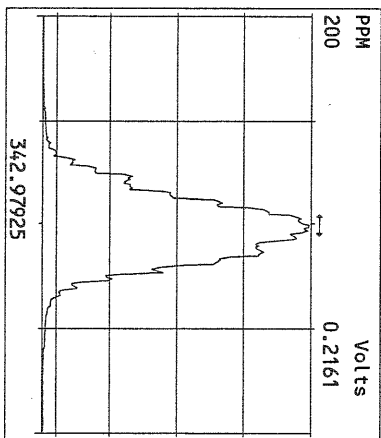
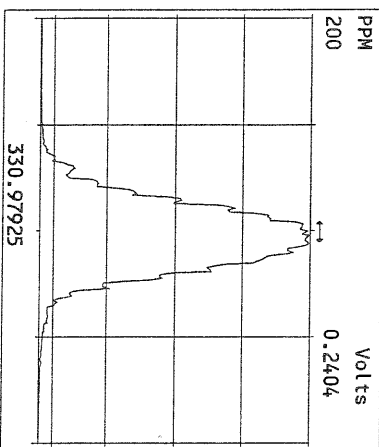
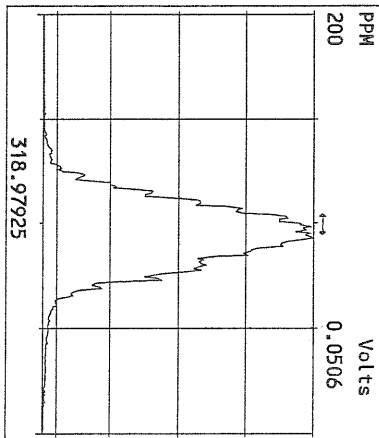
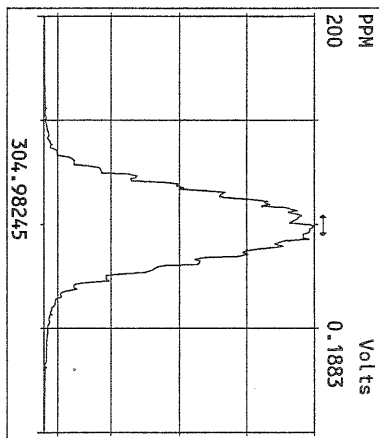
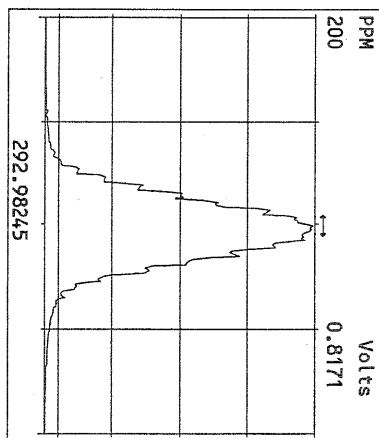
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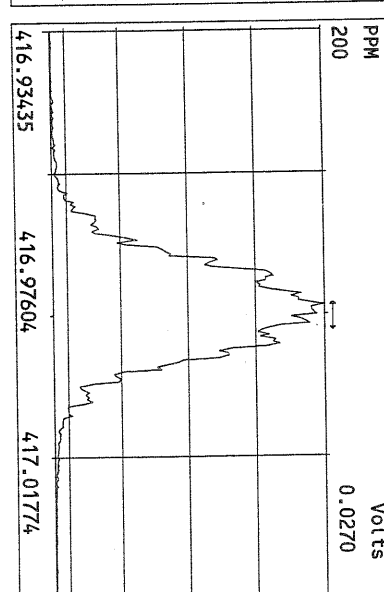
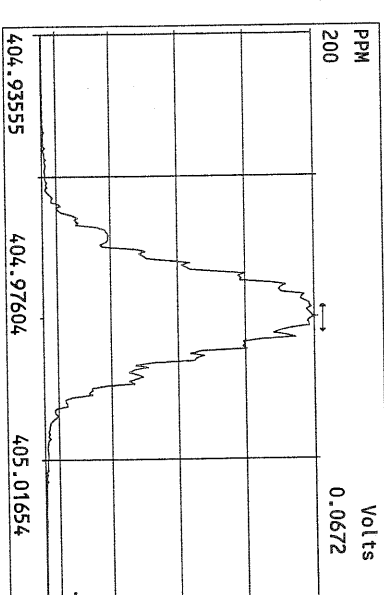
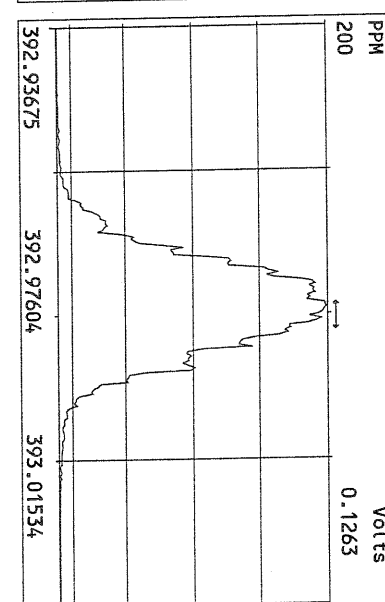
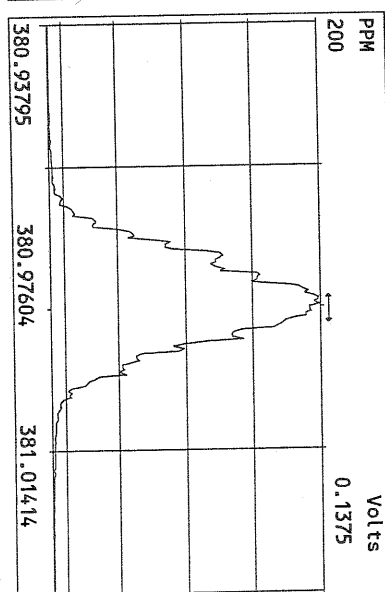
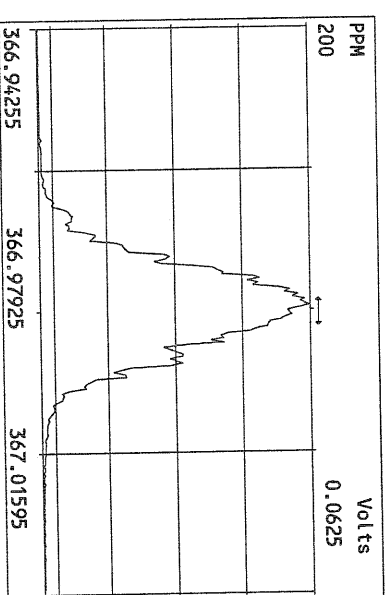
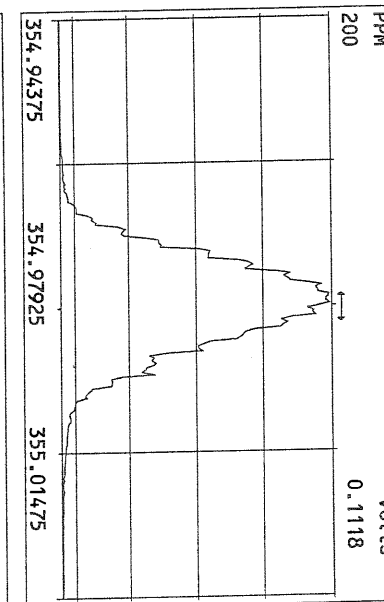
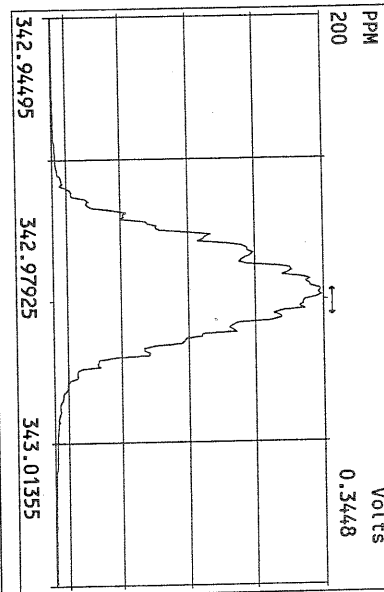
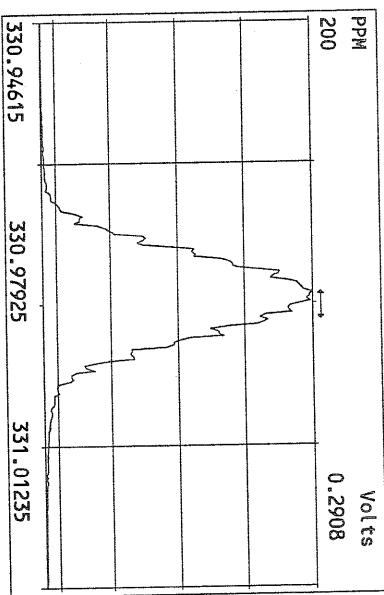
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A 8/12/10

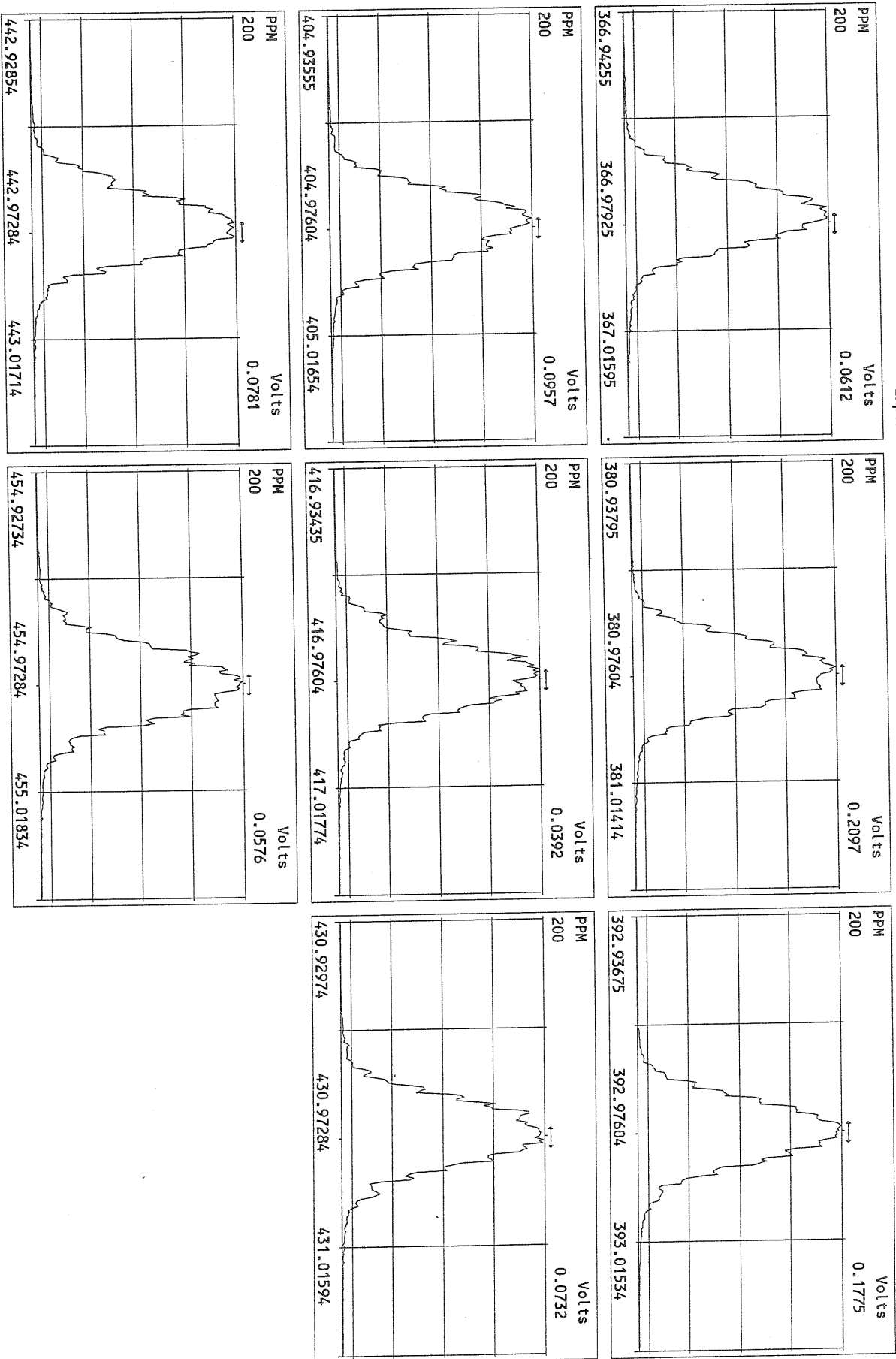
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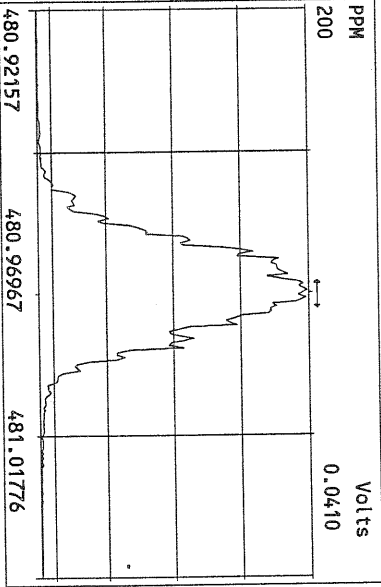
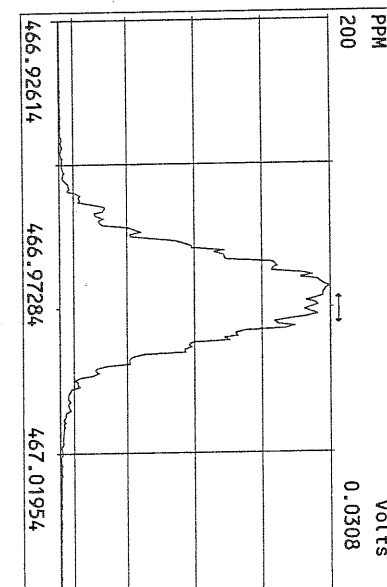
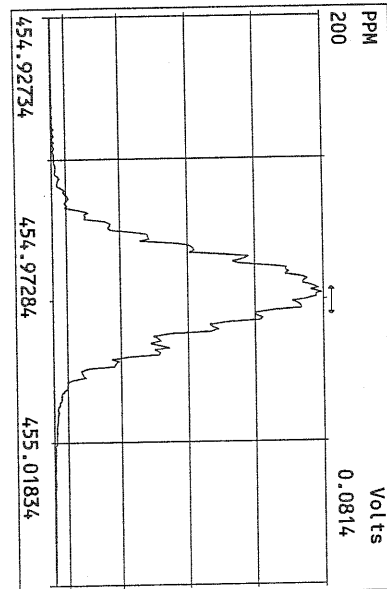
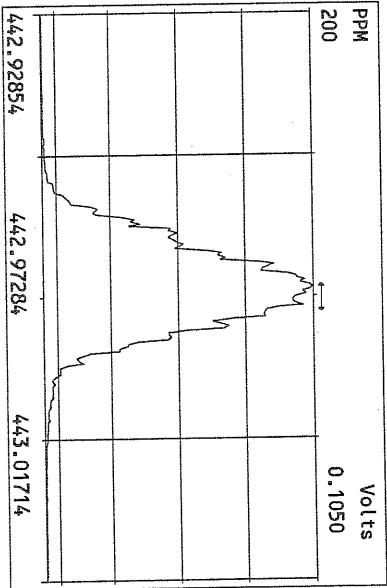
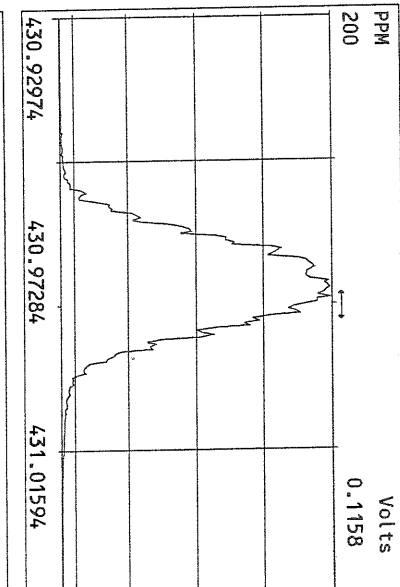
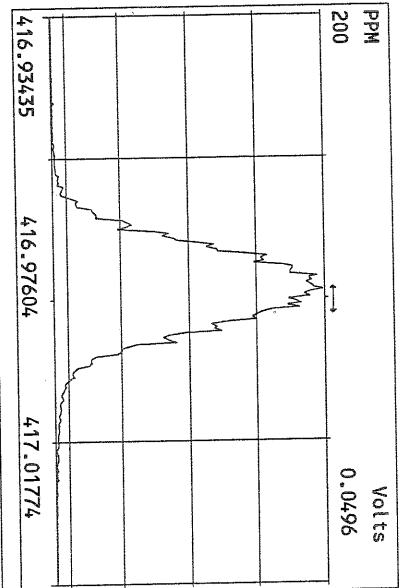
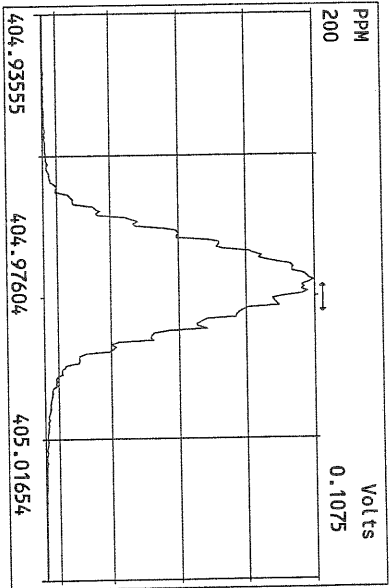
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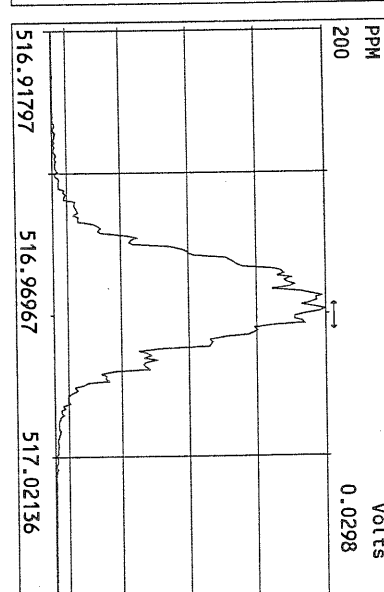
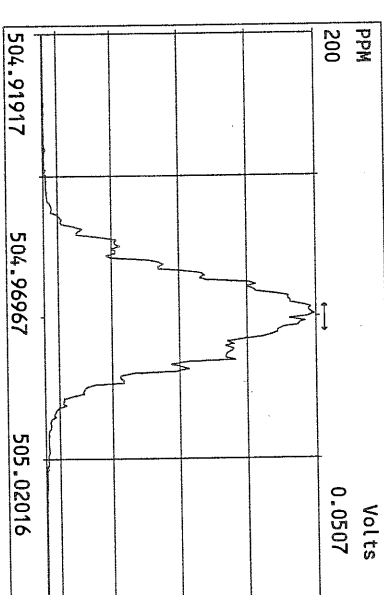
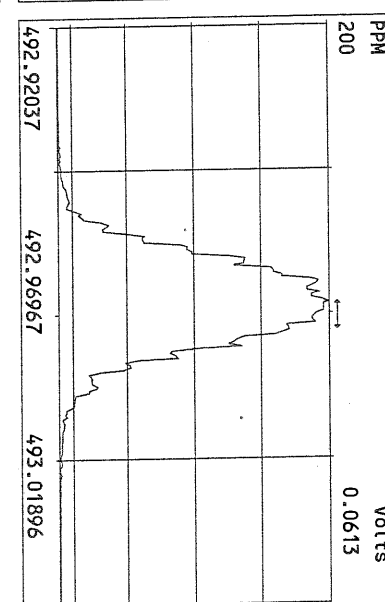
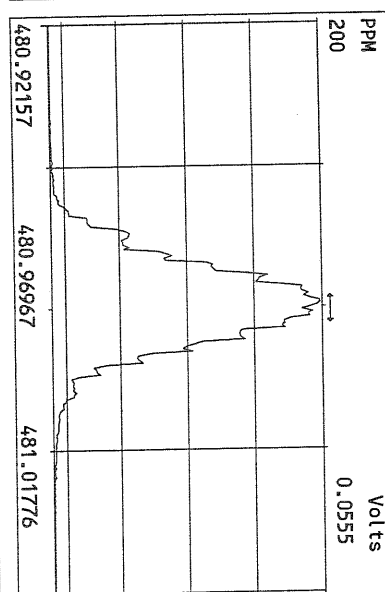
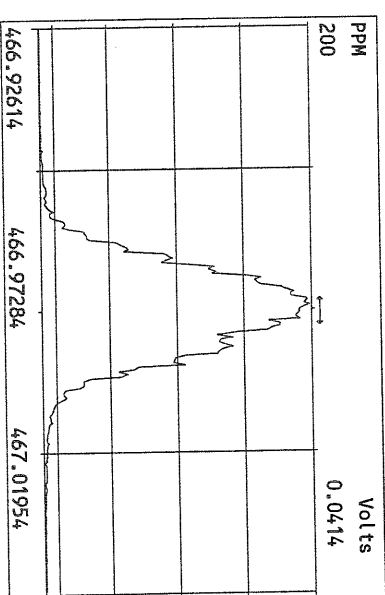
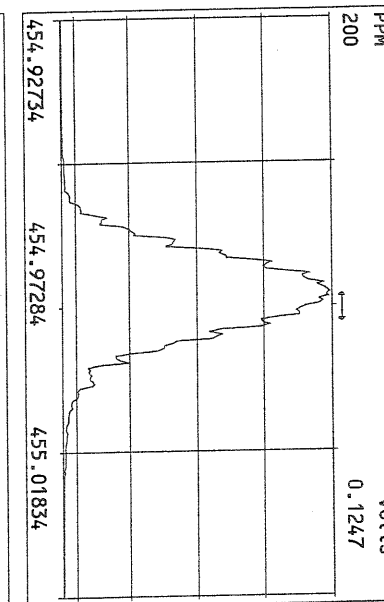
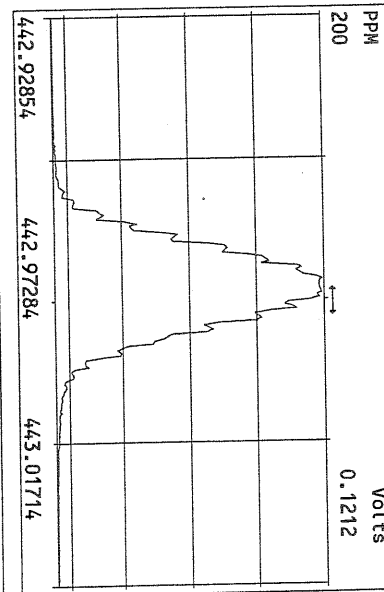
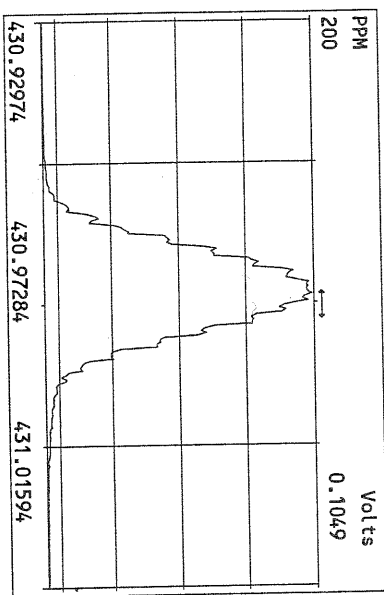




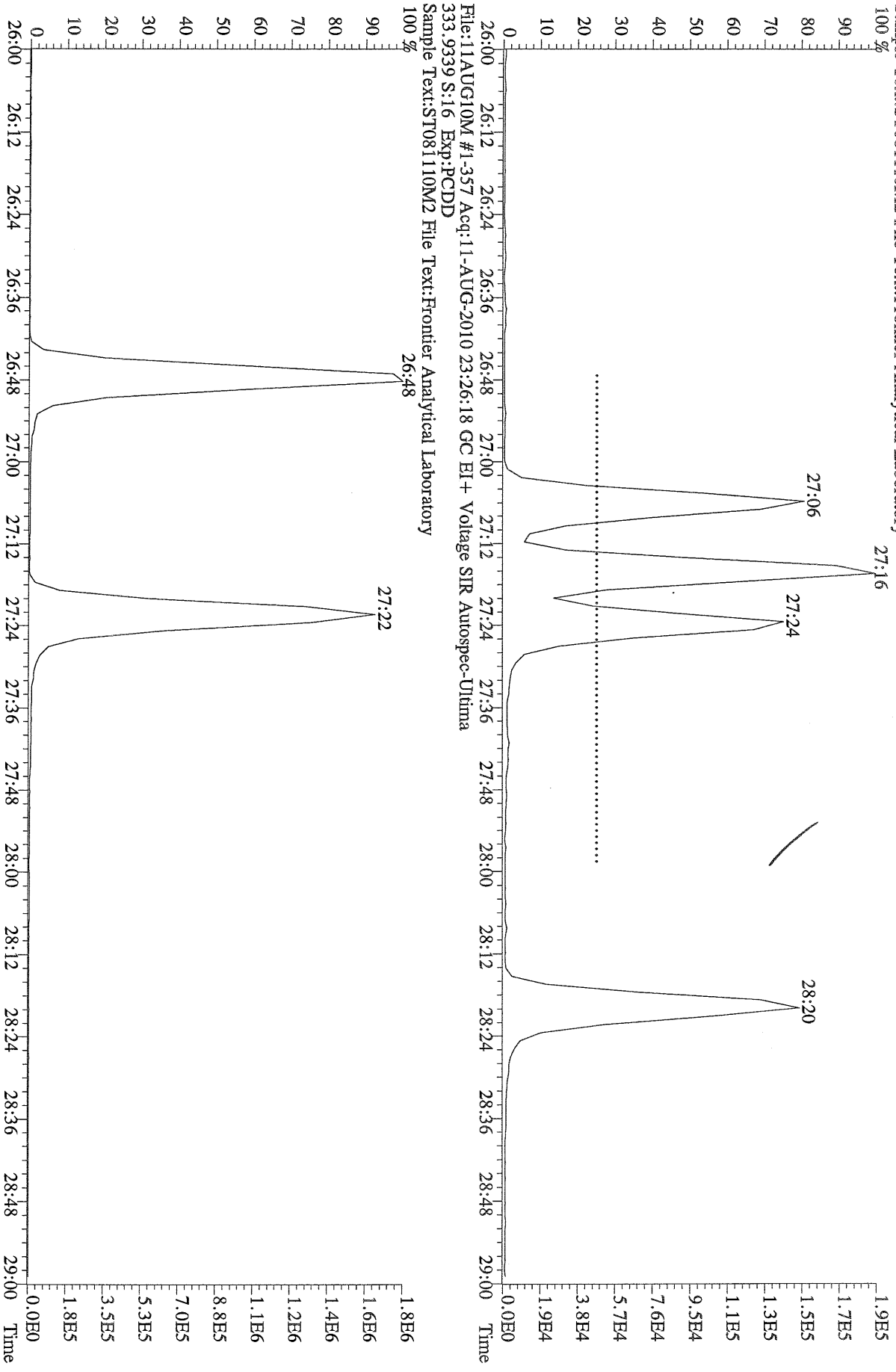
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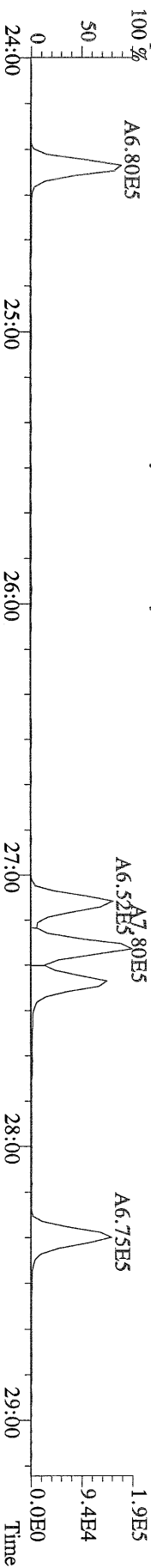
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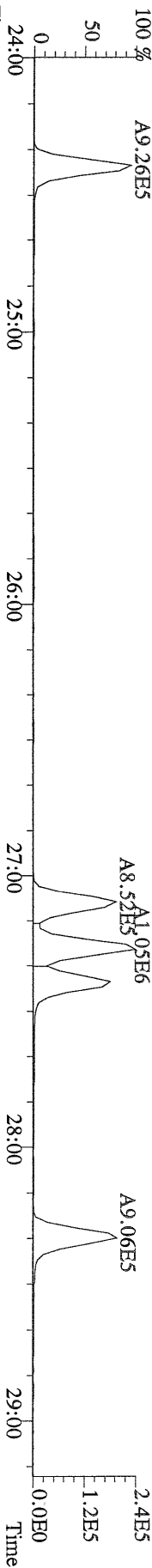
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1.9E5
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1.5E5
1.3E5
1.1E5
9.5E4
7.6E4
5.7E4
3.8E4
1.9E4
0.0E0
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1.4E6
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Time

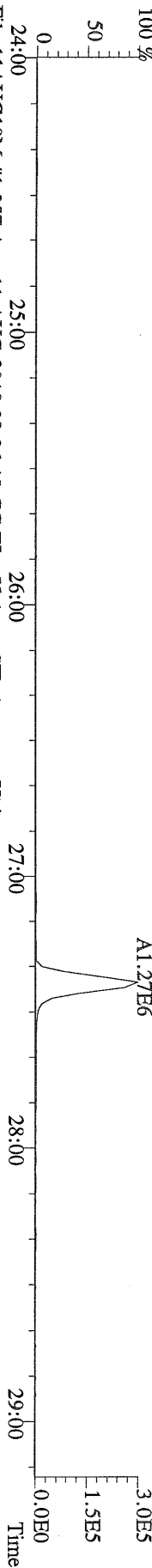
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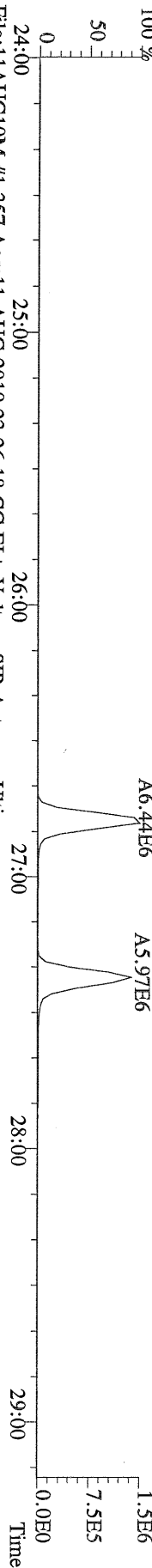
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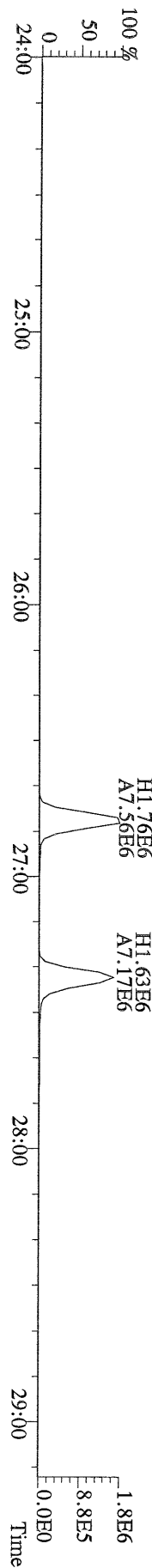
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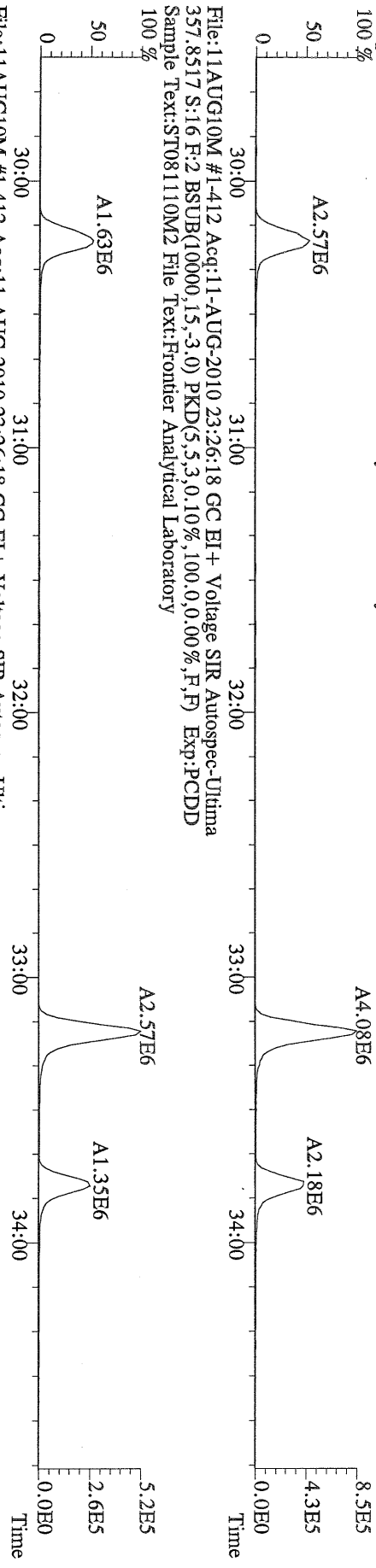
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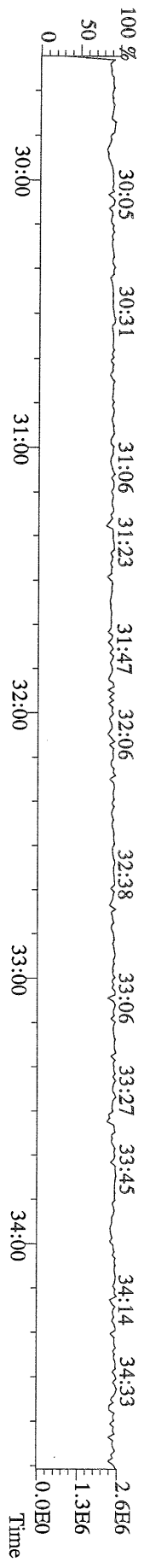
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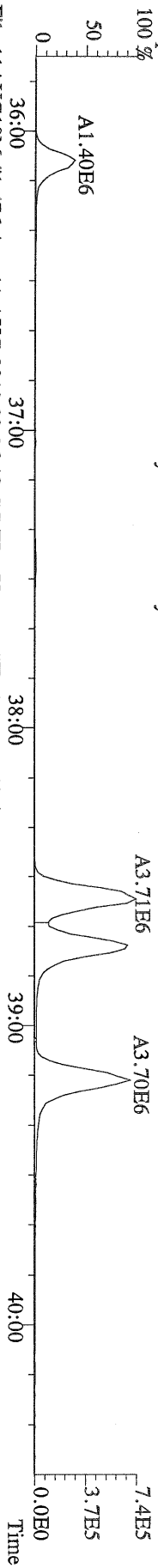
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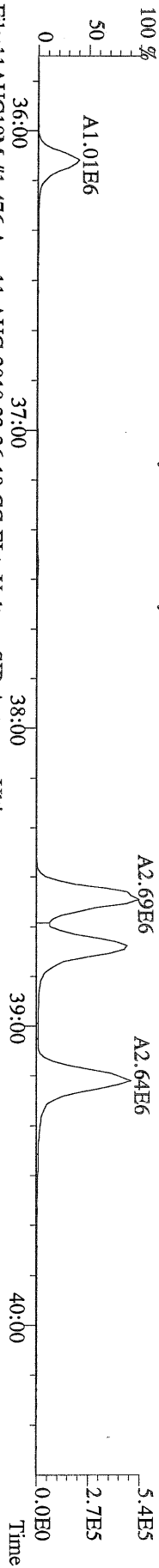
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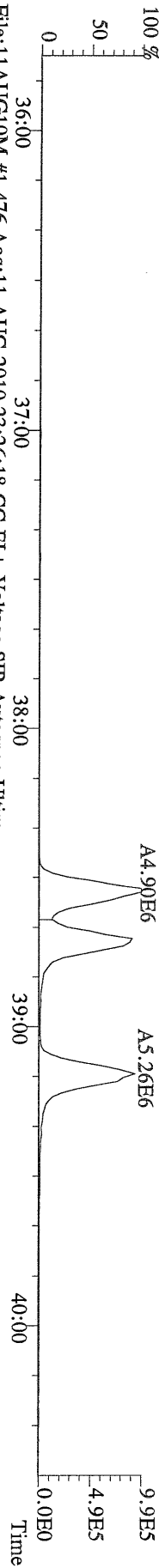
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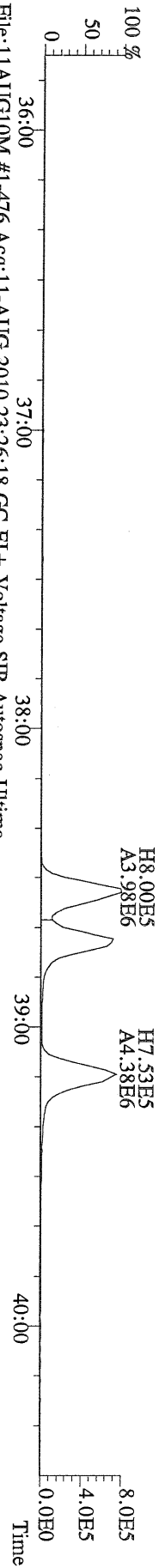
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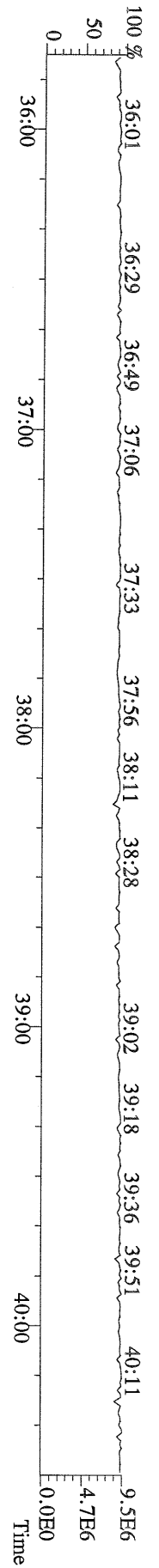
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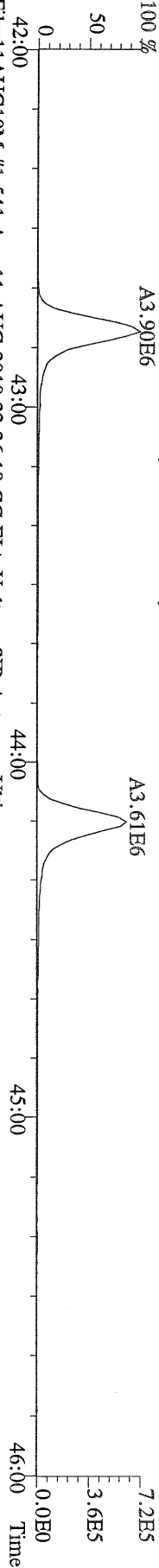
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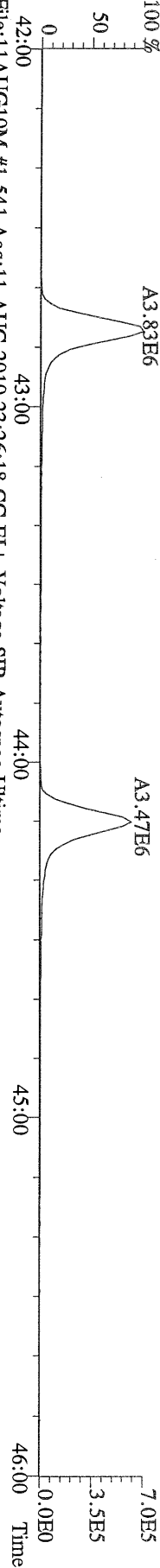
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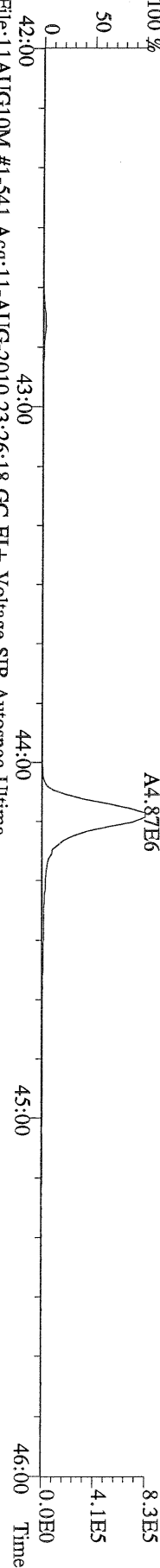
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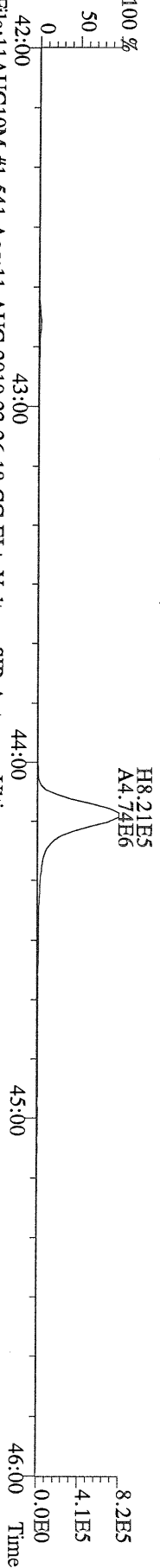
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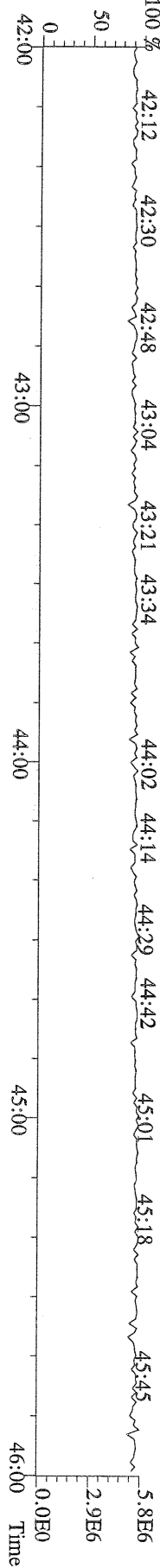
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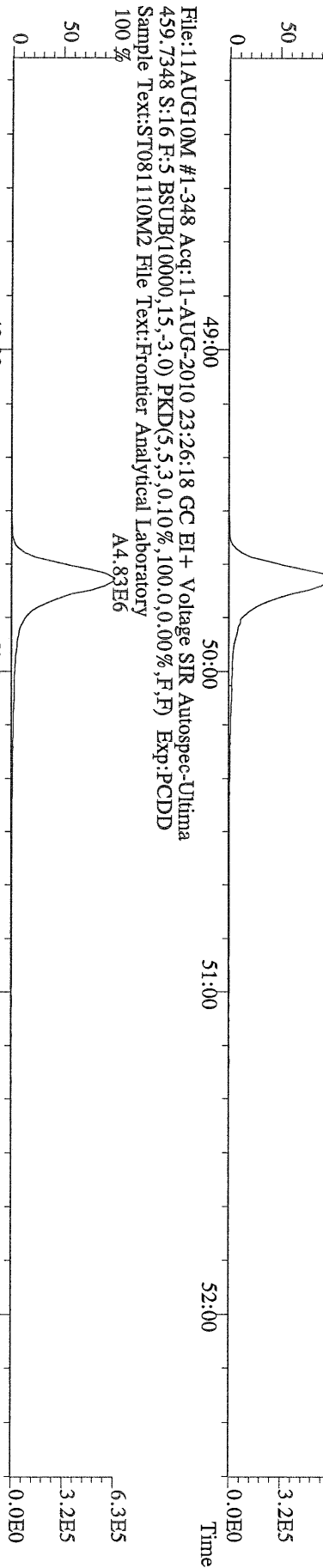
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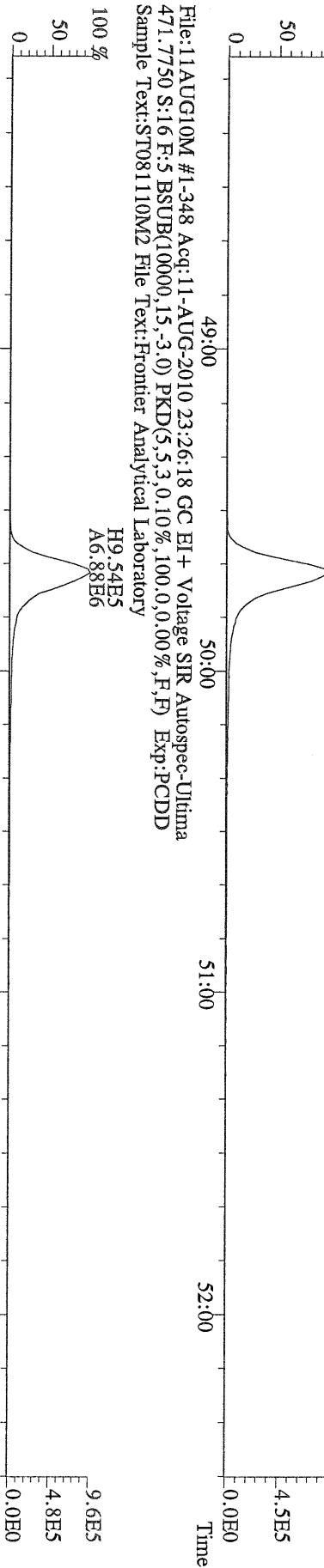
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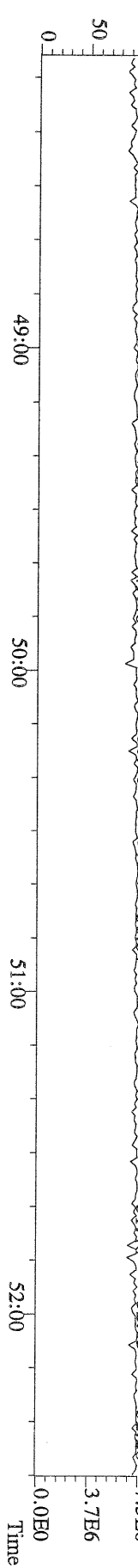
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100 %



File:11AUG10M #1-348 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
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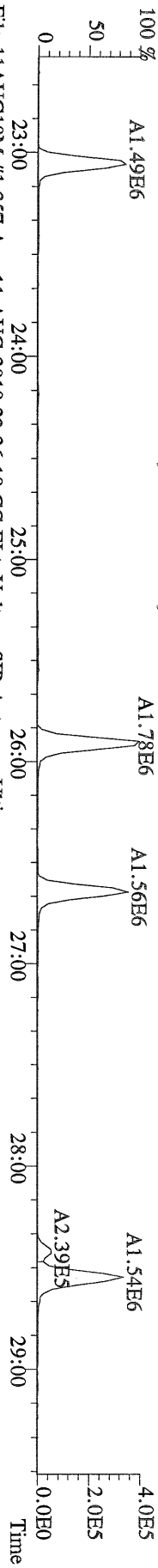
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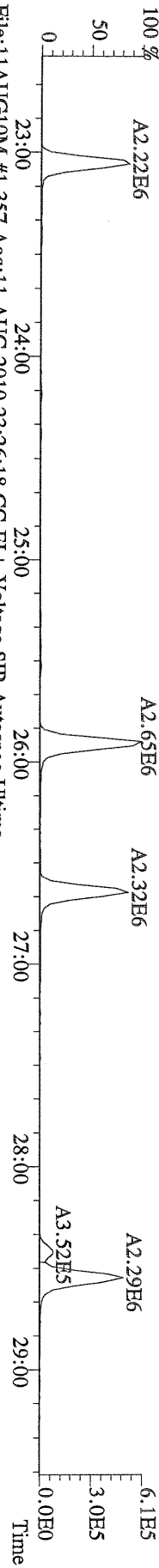
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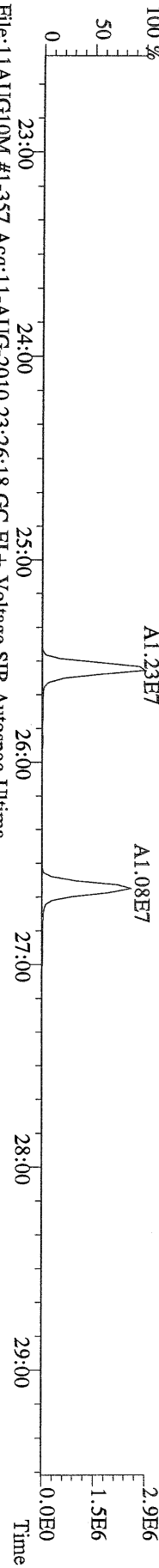
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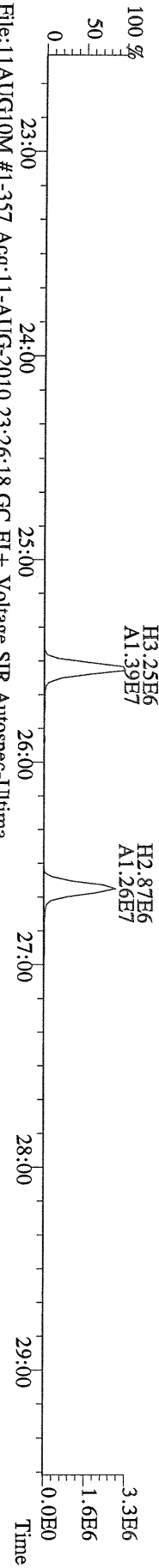
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305.8987 S:16 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



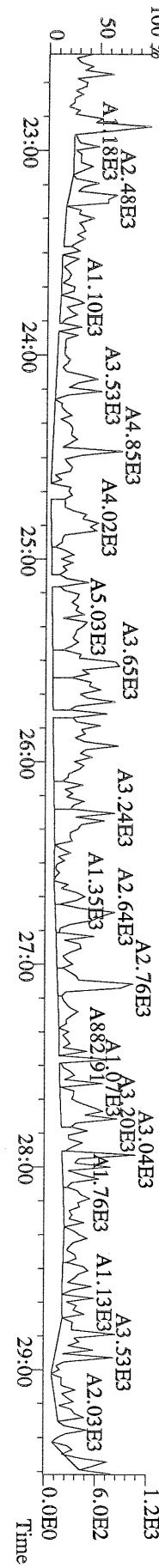
File:11AUG10M #1-357 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:16 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



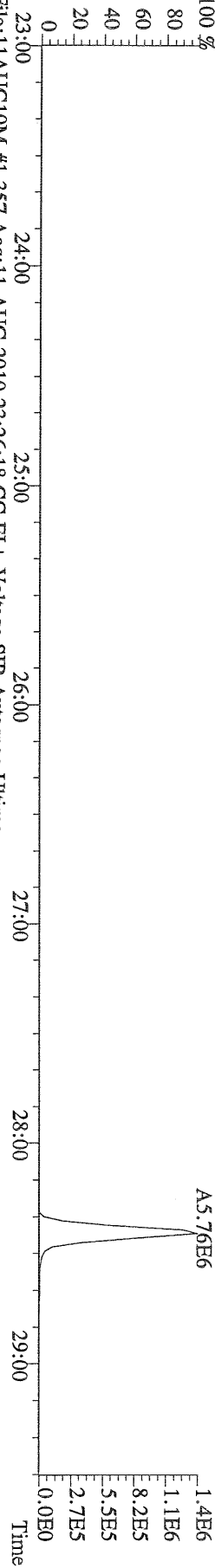
File:11AUG10M #1-357 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:16 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



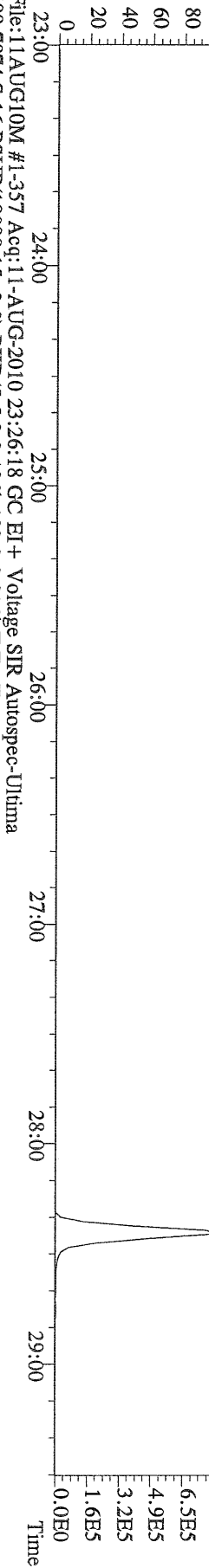
File:11AUG10M #1-357 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:16 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



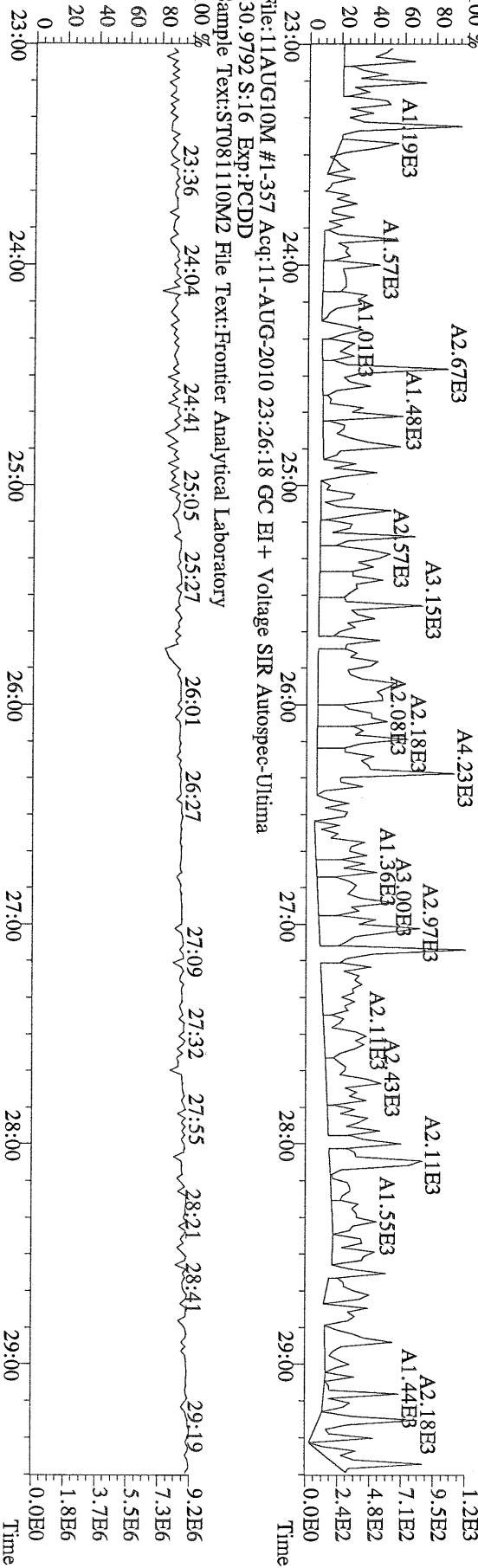
File:11AUG10M #1-357 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



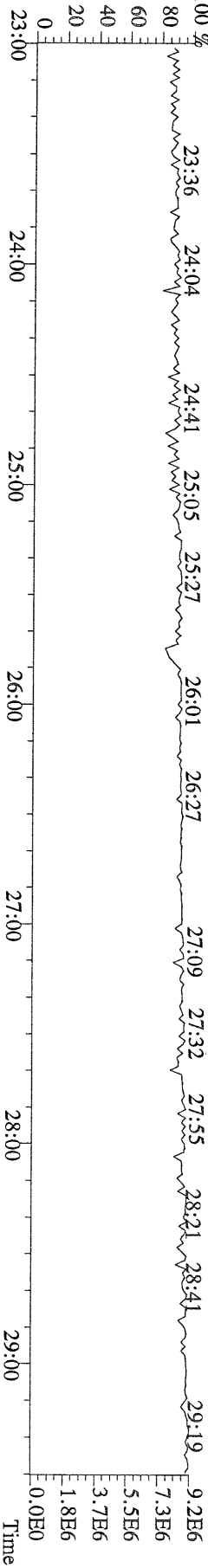
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 341.8568 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



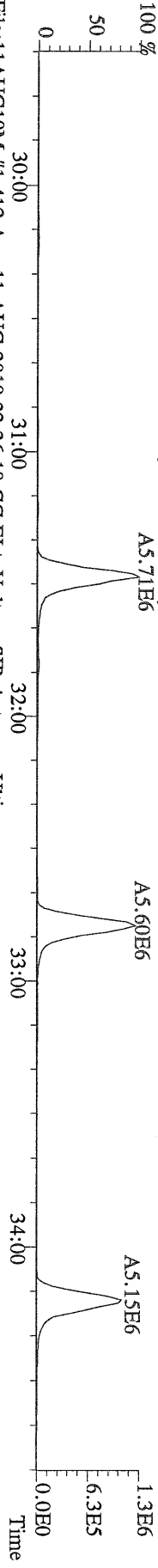
File:11AUG10M #1-357 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



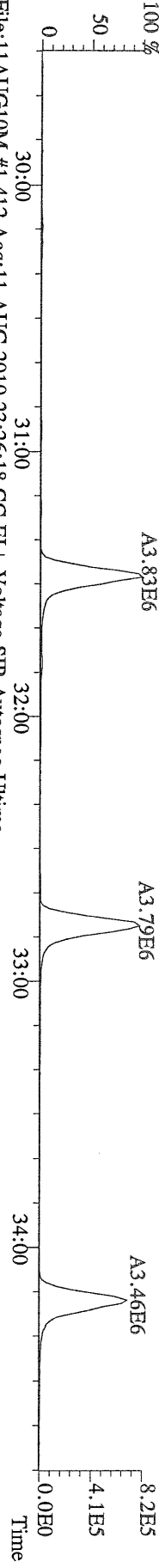
File:11AUG10M #1-357 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:16 Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



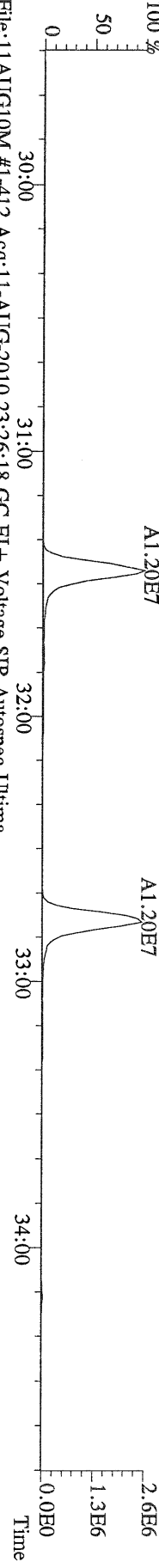
File:11AUG10M #1-412 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



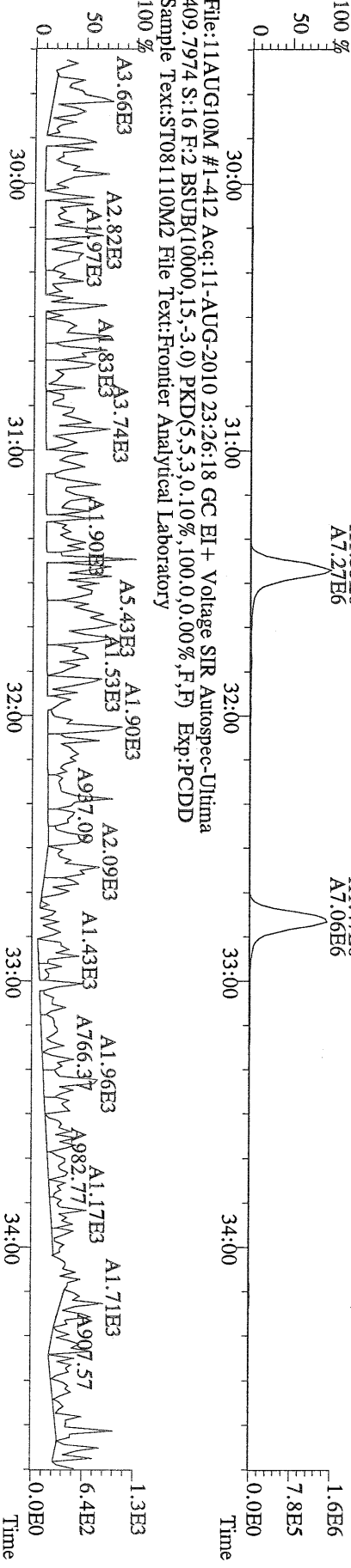
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 341.8568 S:16 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



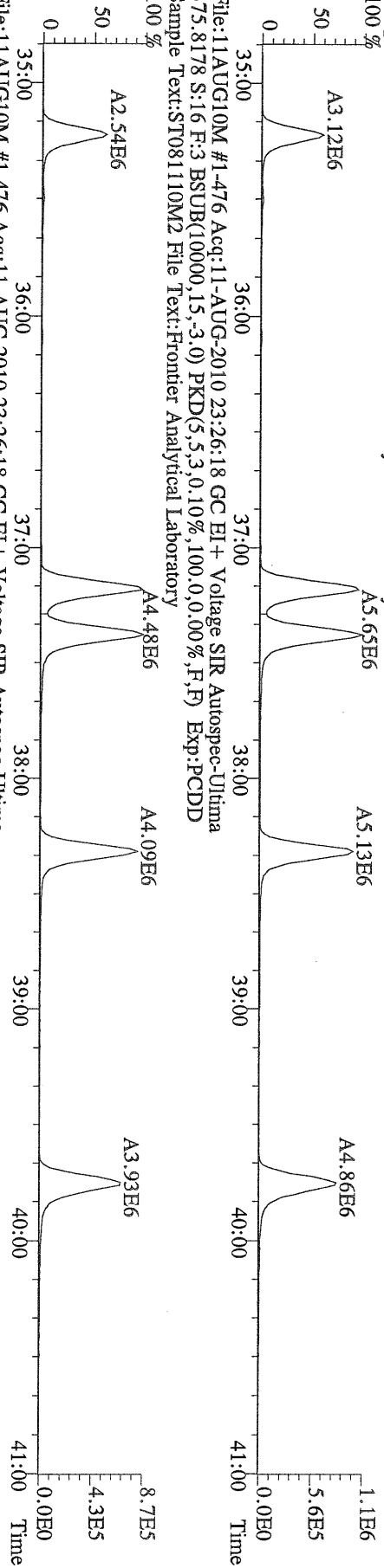
File:11AUG10M #1-412 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Utima
 351.9000 S:16 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



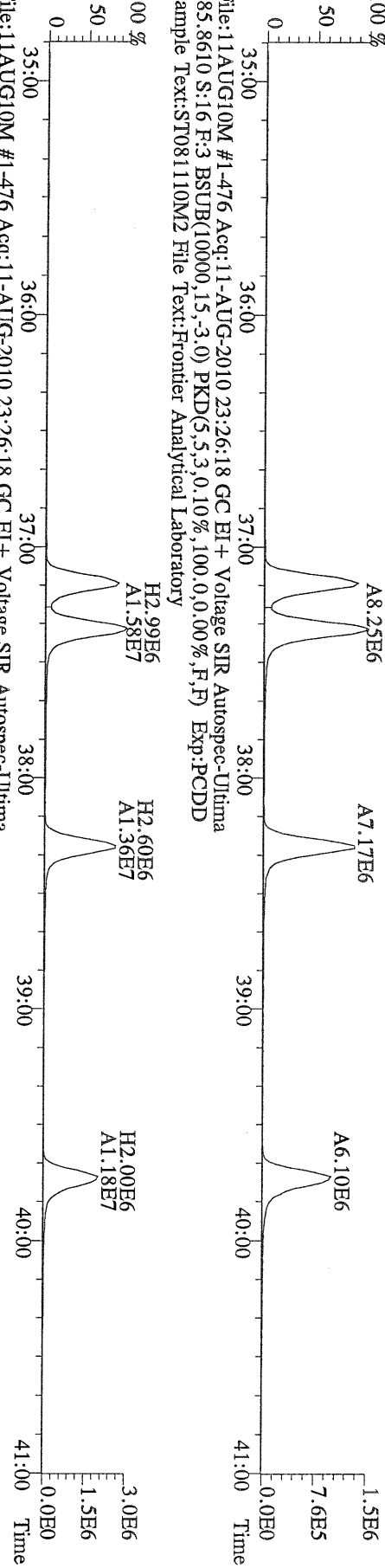
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 409.7974 S:16 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



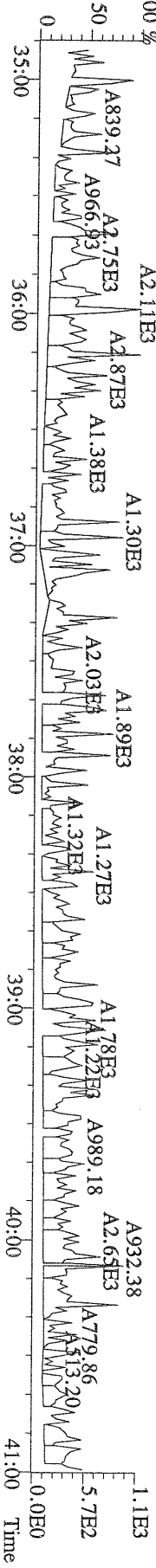
File:11AUG10M #1-476 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



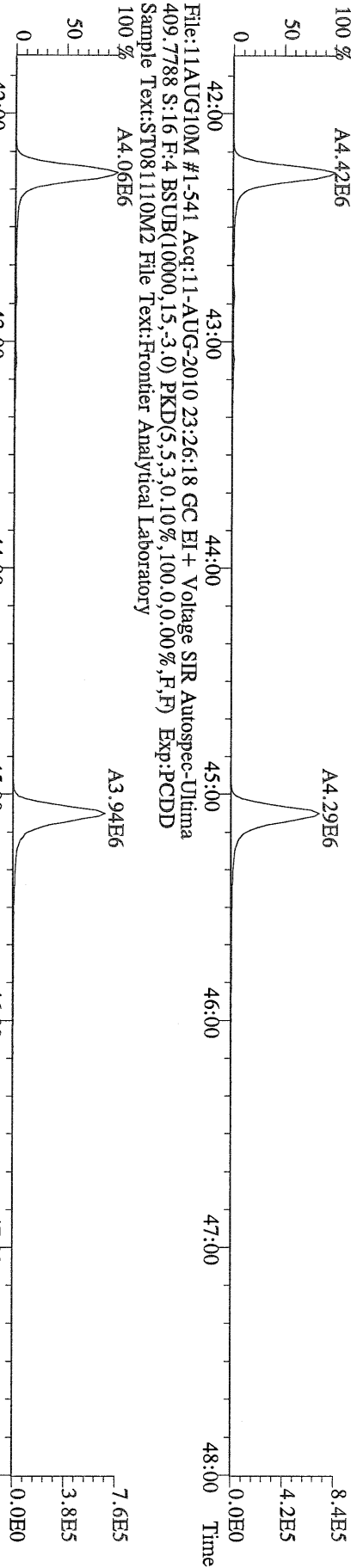
File:11AUG10M #1-476 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



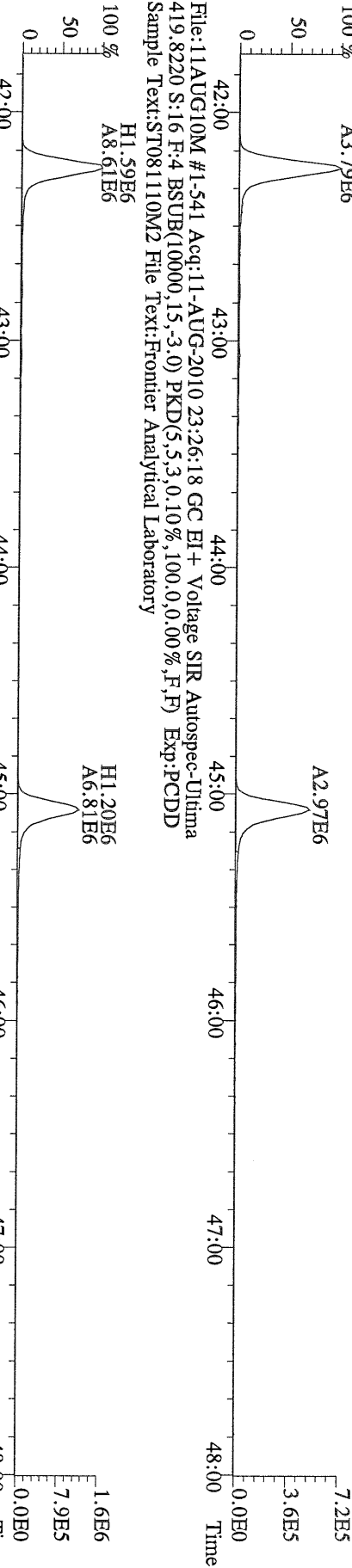
File:11AUG10M #1-476 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



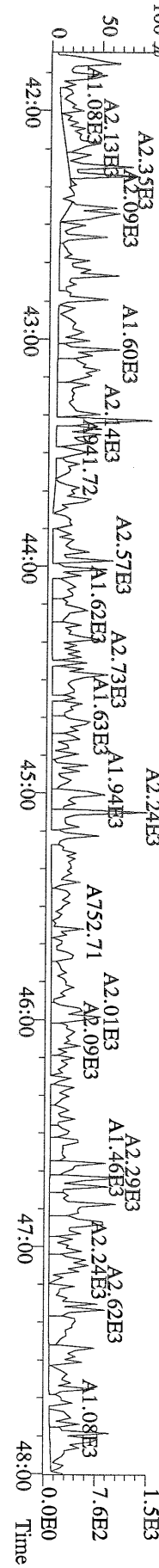
File:11AUG10M #1-541 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



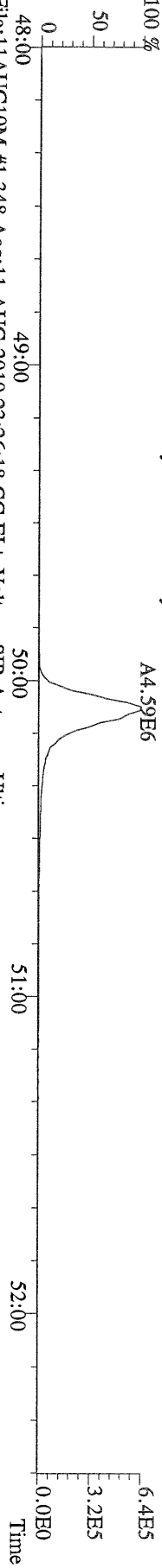
File:11AUG10M #1-541 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



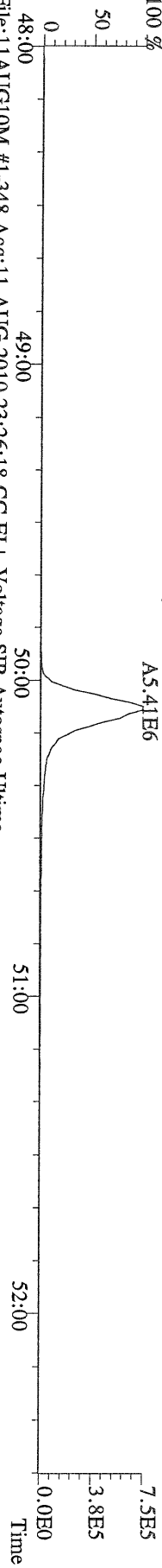
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419.8220 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



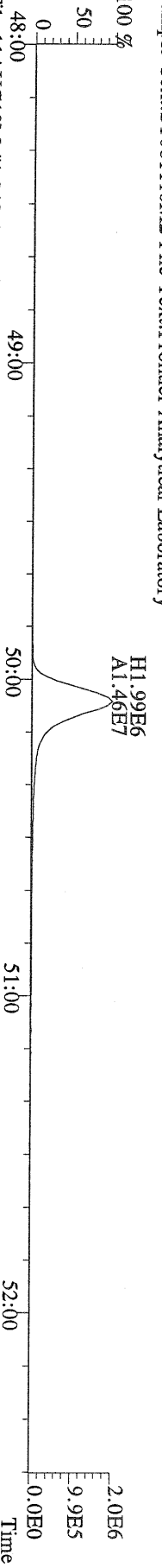
File:11AUG10M #1-348 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 443.7398 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



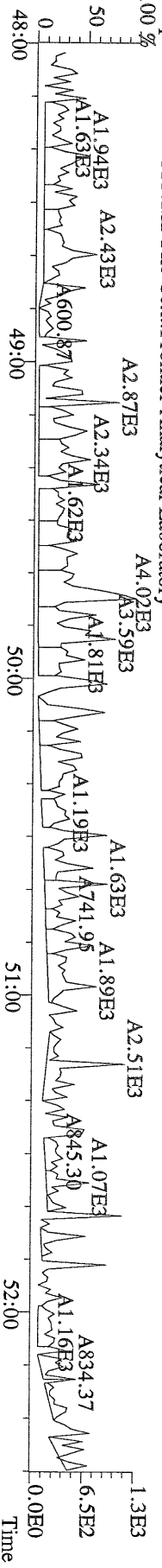
File:11AUG10M #1-348 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory

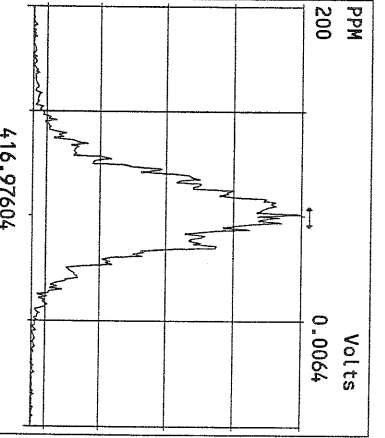
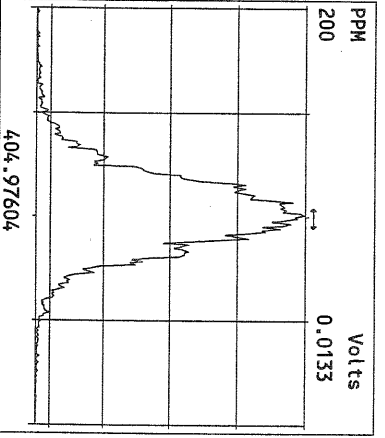
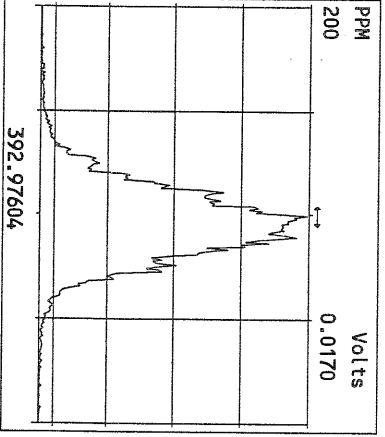
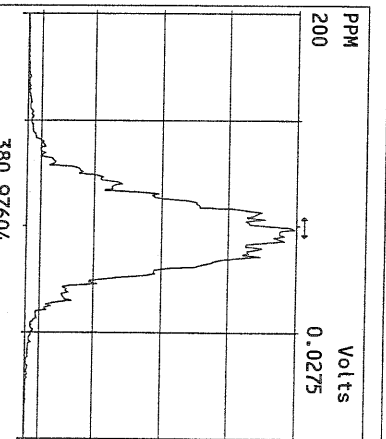
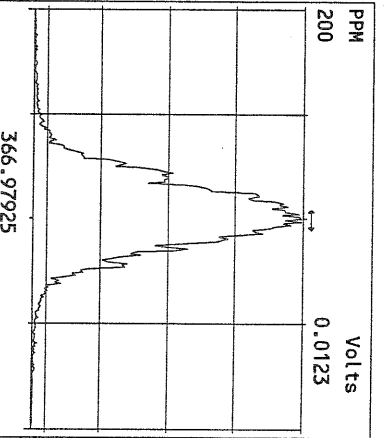
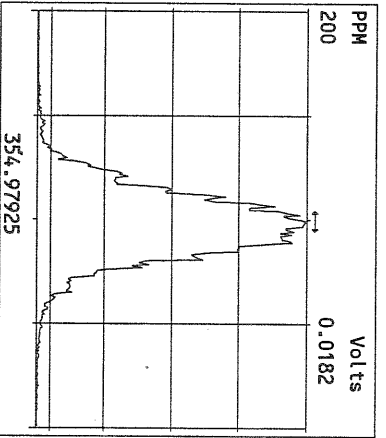
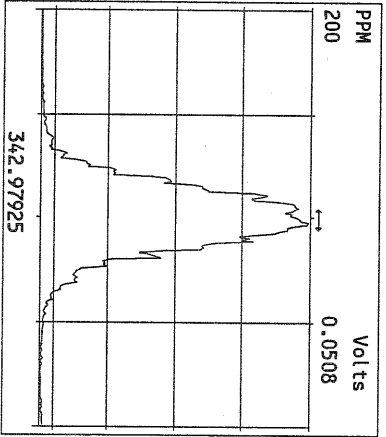
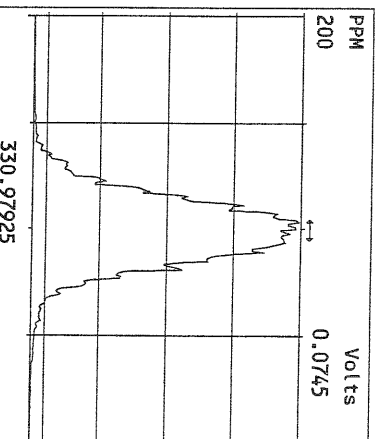
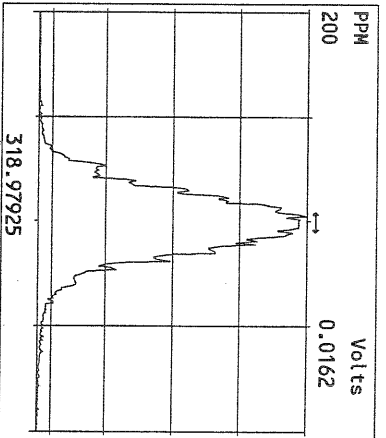
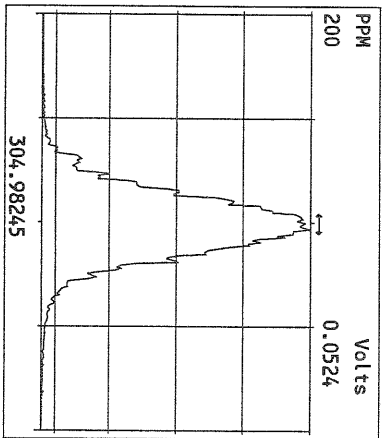
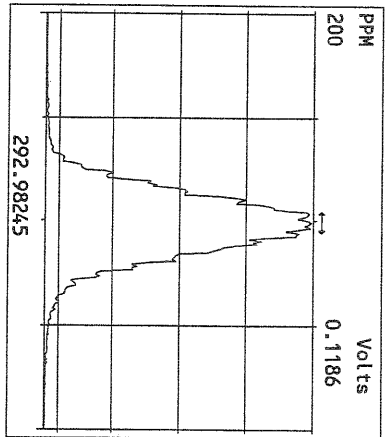


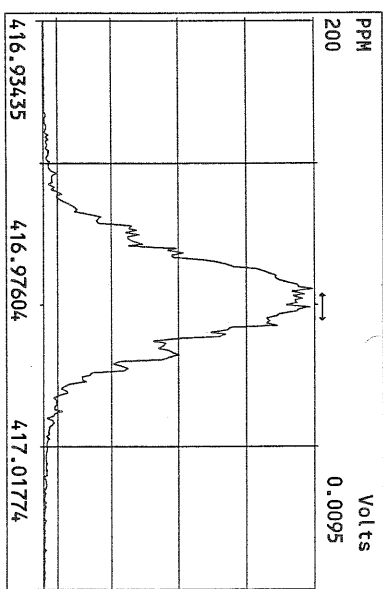
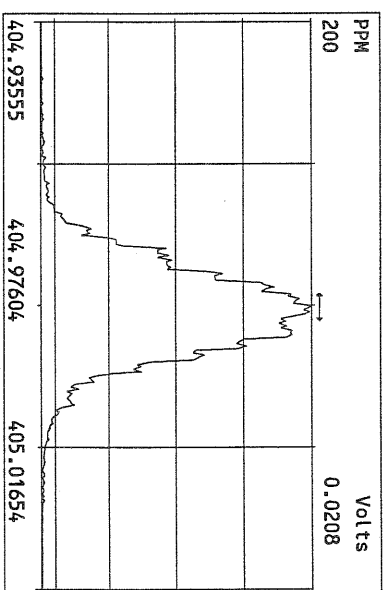
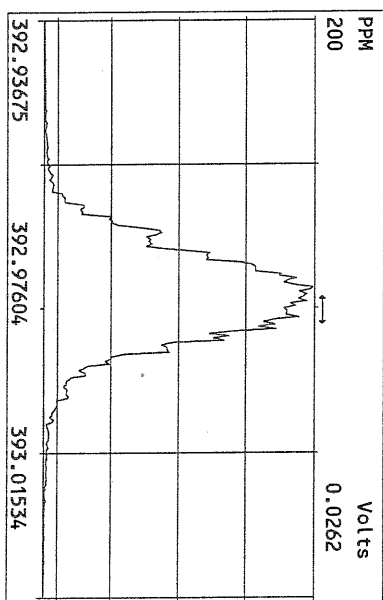
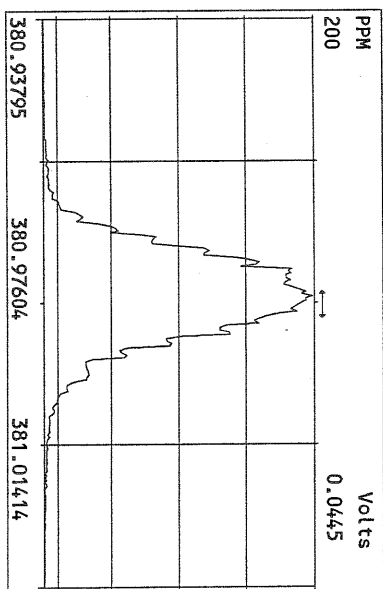
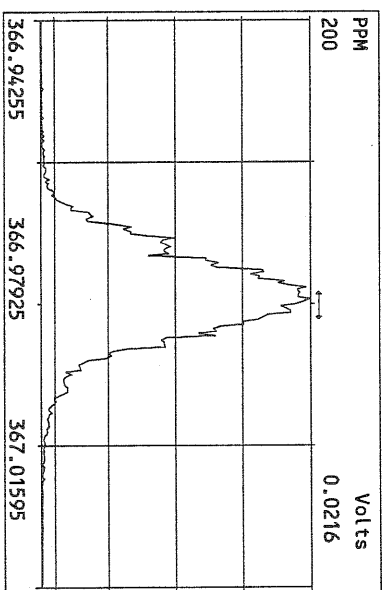
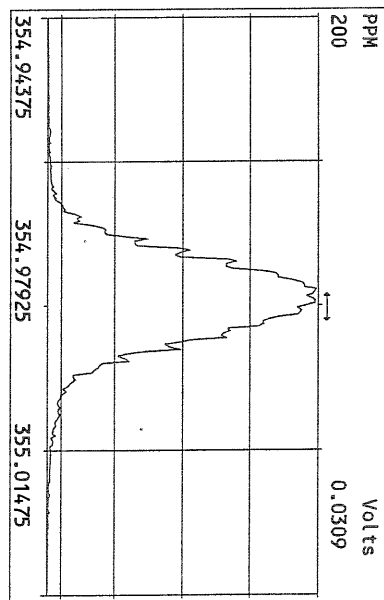
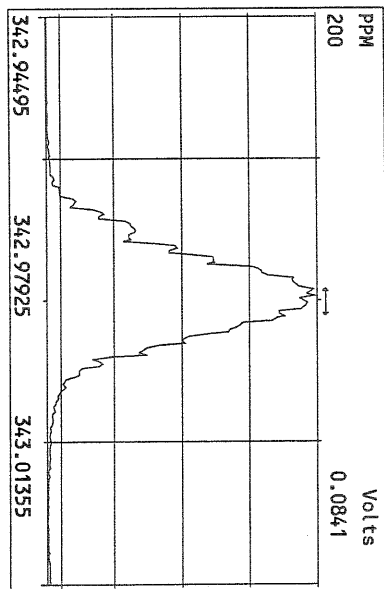
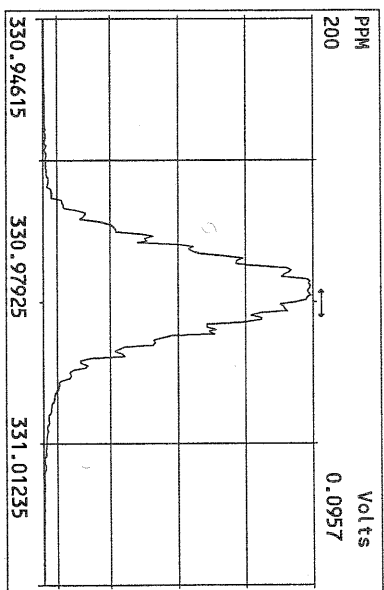
File:11AUG10M #1-348 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory

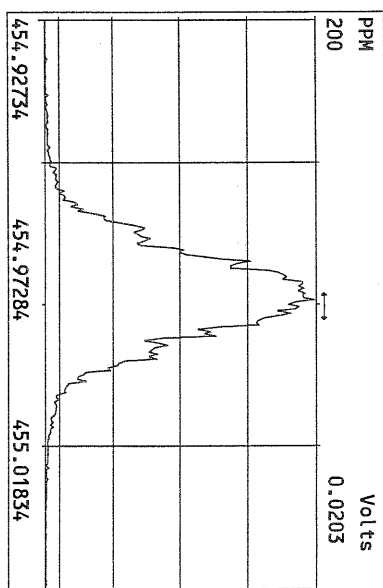
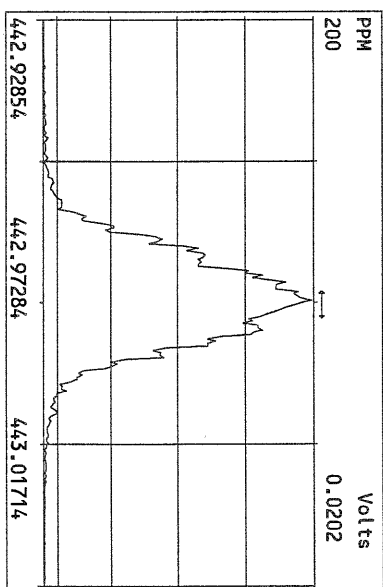
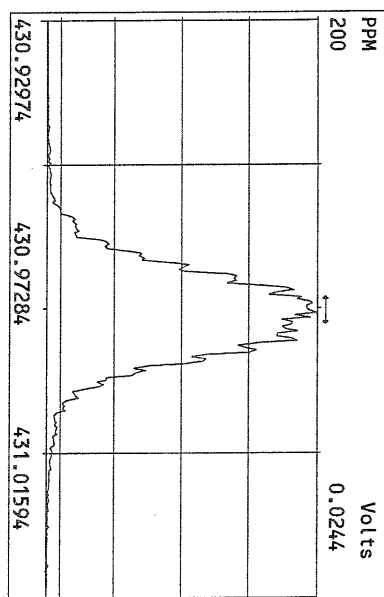
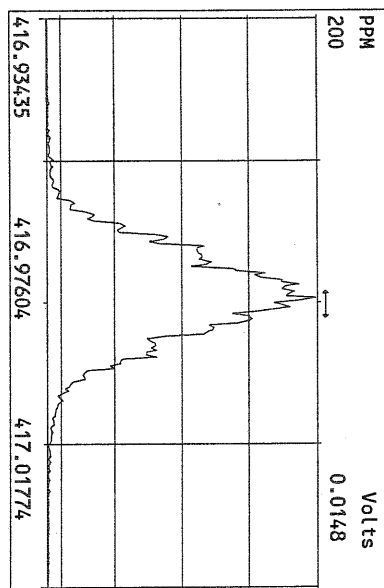
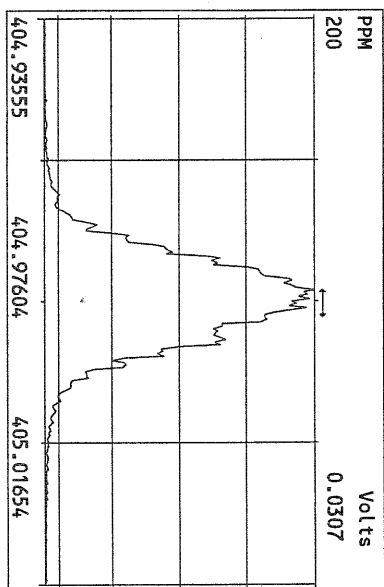
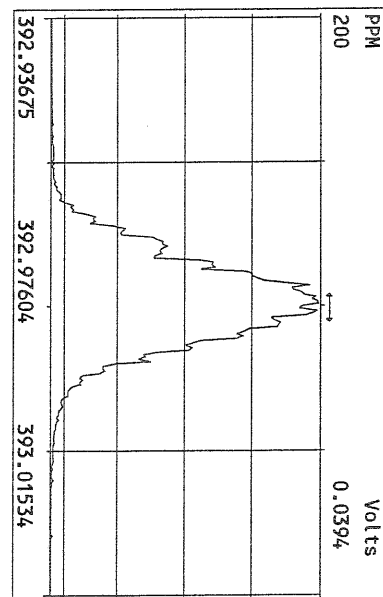
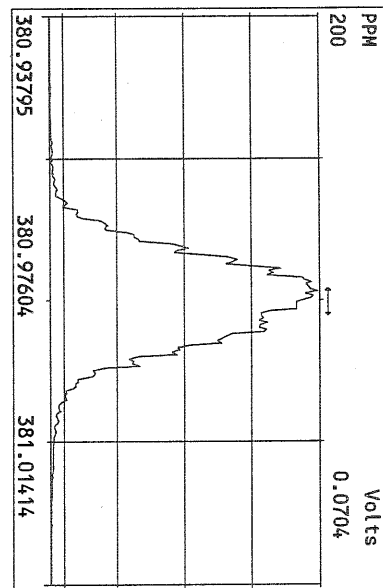
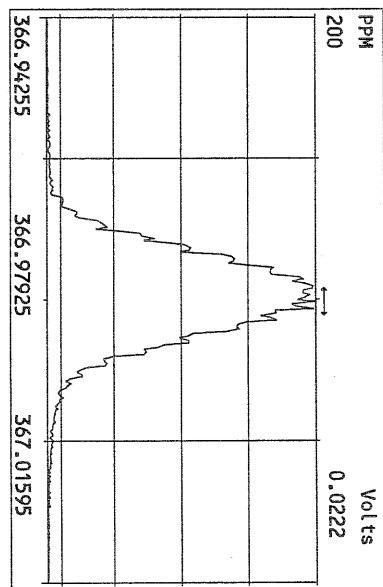


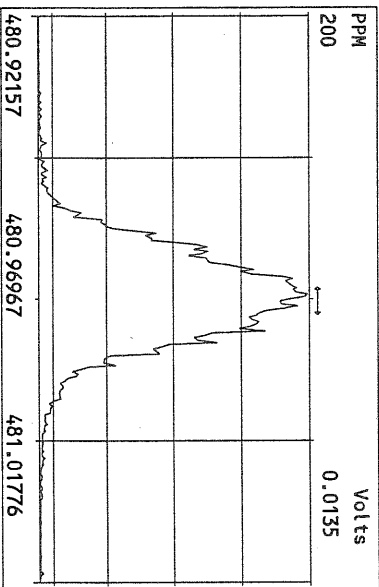
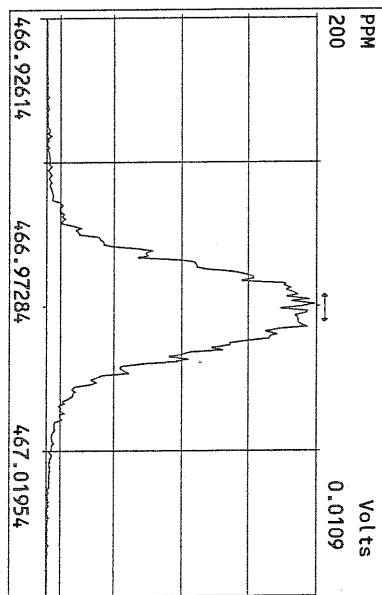
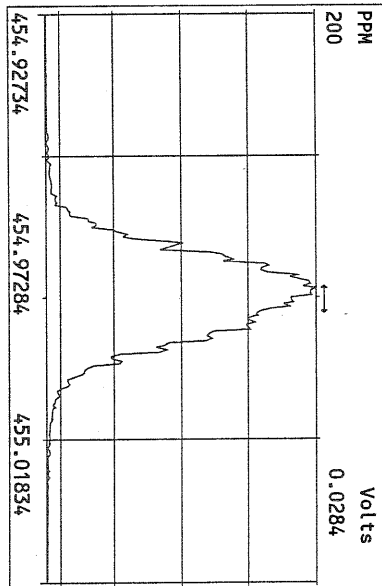
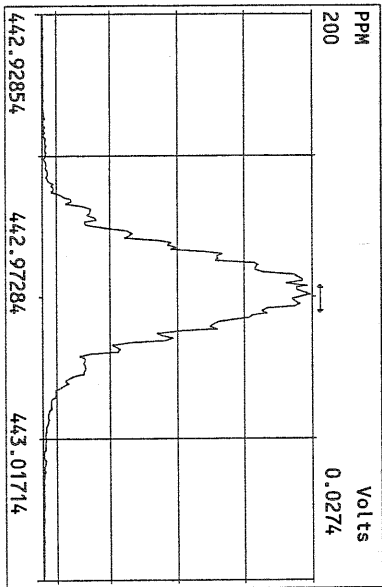
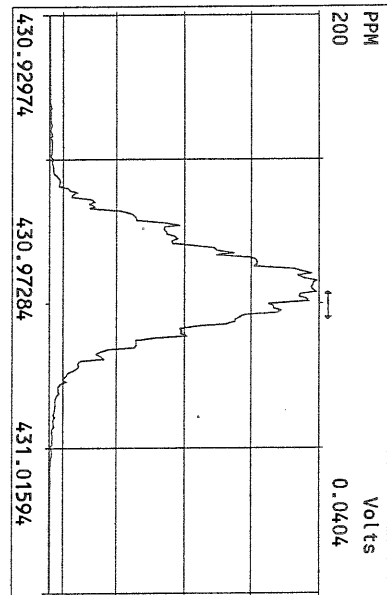
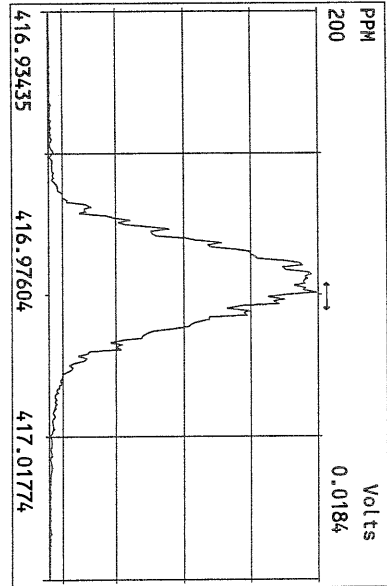
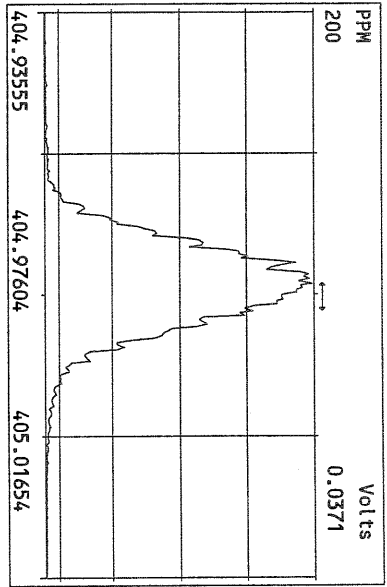
File:11AUG10M #1-348 Acq:11-AUG-2010 23:26:18 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
 Sample Text:ST081110M2 File Text:Frontier Analytical Laboratory



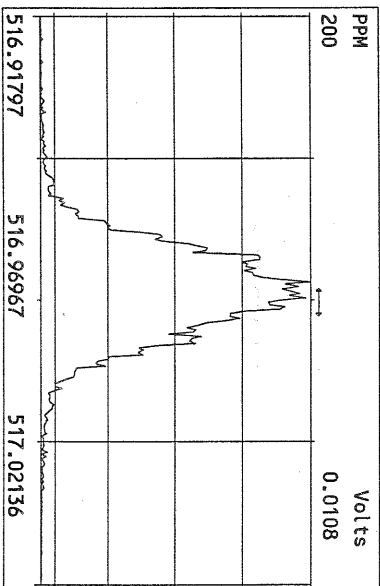
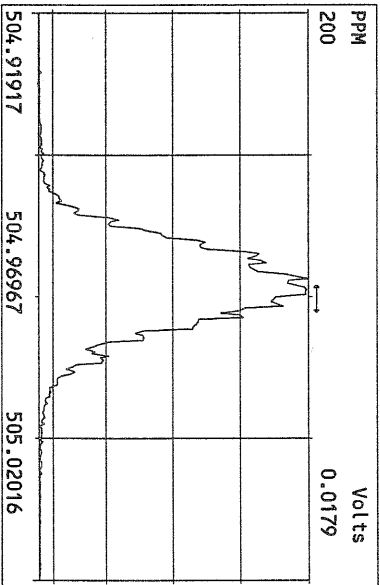
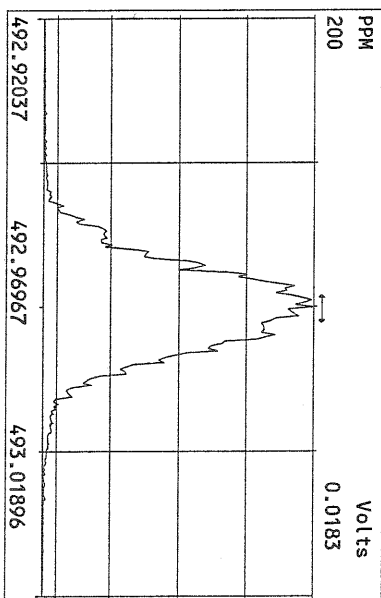
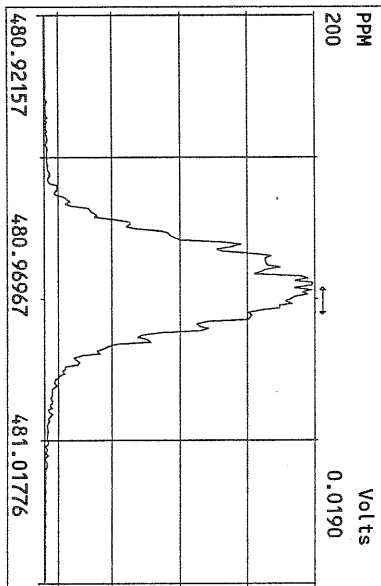
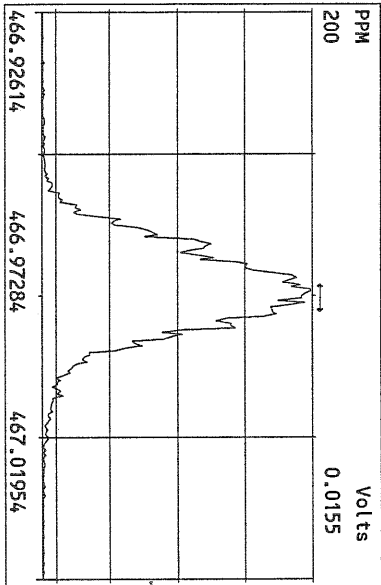
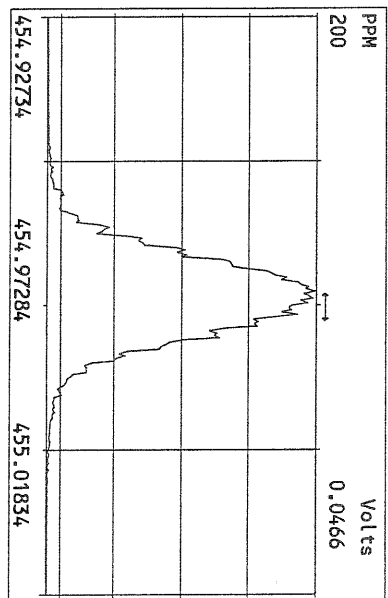
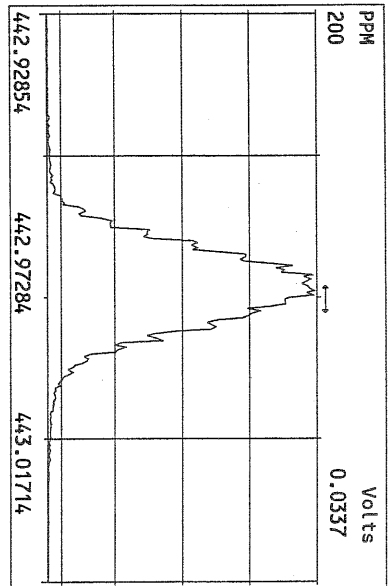
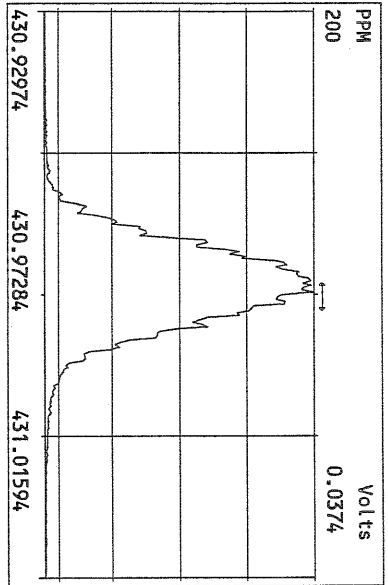








Peak Locate Examination:12-AUG-2010:09:42 File:11AUG10M_RES_CHECK
 Experiment:PCDD Function:5 Reference:PK



FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 11AUG10M Sam:26

Analysis Date: 12-AUG-10 08:39:32

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	10.9	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	52.5	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.39	1.05-1.43	y	56.5	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.37	1.05-1.43	y	57.4	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.40	1.05-1.43	y	58.4	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	54.1	43.0 - 58.0 ✓
OCDD	M+2/M+4	1.00	0.76-1.02	y	114	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.69	0.65-0.89	y	10.3	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.32-1.78	y	53.5	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.32-1.78	y	52.3	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	48.3	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	50.2	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	49.7	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	49.3	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	50.2	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.08	0.88-1.20	y	52.3	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.88	0.76-1.02	y	99.8	63.0 - 159 ✓

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

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

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

Analyst: Date: 8/12/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 11AUG10M

Sam:26

Analysis Date: 12-AUG-10 08:39:32


LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.83	0.65-0.89	y	102	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.32-1.78	y	108	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	98.4	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	85.4	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	110	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.94	0.76-1.02	y	223	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	104	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	92.5	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	99.3	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	124	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	113	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	121	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	126	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	115	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	120	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.97	0.76-1.02	y	246	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.60	7.80 - 12.8 ✓

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

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

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

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

Analyst: Date: 8/12/10

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 5/12/10
RT Window Data Filename: 11AUG10M Sam:26 Analysis Date: 12-AUG-10 Time: 08:39:32
DB-5 IS Data Filename: 11AUG10M Sam:26 Analysis Date: 12-AUG-10 Time: 08:39:32
DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:23 ✓	1,3,6,8-TCDF (F)	23:02 ✓
1,2,8,9-TCDD (L)	28:20 ✓	1,2,8,9-TCDF (L)	28:33 ✓
1,2,4,7,9-PeCDD (F)	30:13 ✓	1,3,4,6,8-PeCDF (F)	28:25 ✓
1,2,3,8,9-PeCDD (L)	33:47 ✓	1,2,3,8,9-PeCDF (L)	34:12 ✓
1,2,4,6,7,9-HxCDD (F)	36:07 ✓	1,2,3,4,6,8-HxCDF (F)	35:13 ✓
1,2,3,7,8,9-HxCDD (L)	39:11 ✓	1,2,3,7,8,9-HxCDF (L)	39:45 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:46 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:15 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:10 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:05 ✓

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

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst: 

Date: 8/12/10

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 12-AUG-10 08:39:32

CS3 or VER Data Filename: 11AUG10M

Sam:26

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002 ✓
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003 ✓
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002 ✓
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002 ✓
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052 ✓
13C-2,3,7,8-TCDD		1.022	0.976-1.043 ✓
13C-2,3,7,8-TCDF		0.994	0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 8/12/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 12-AUG-10 08:39:32

CS3 or VER Data Filename: 11AUG10M

Sam:26

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.001	0.999-1.001 ✓
OCDD	13C-OCDD	1.000	0.999-1.001 ✓
OCDF	13C-OCDF	1.000	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.989	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154 ✓
13C-OCDD		1.269	1.032-1.311 ✓
13C-OCDF		1.279	1.000-1.311 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified
in Table 2, Method 1613.

Analyst: Date: 8/12/10

Frontier Analytical Laboratory - Acquisition Log

Run Name: 11AUG10M

Instrument: FAL3

GC: DB5

Experiment: PCDD

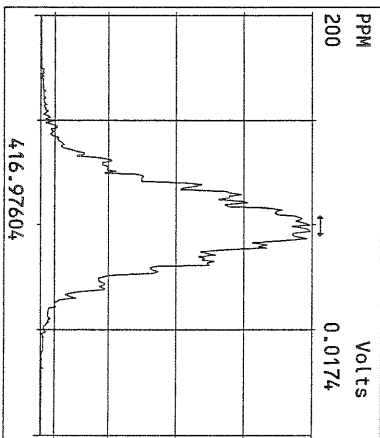
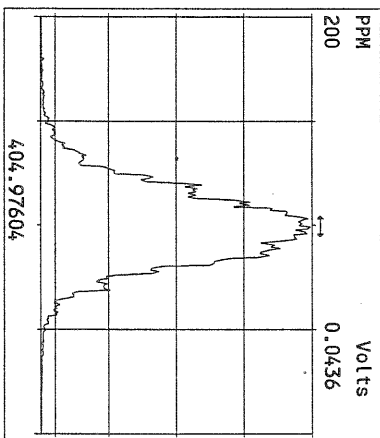
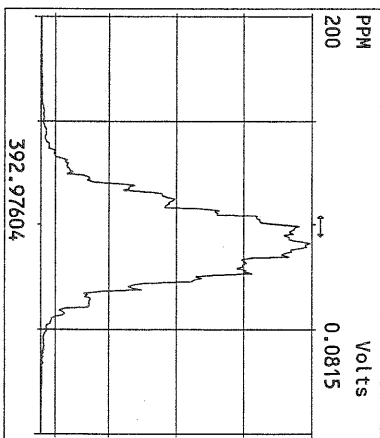
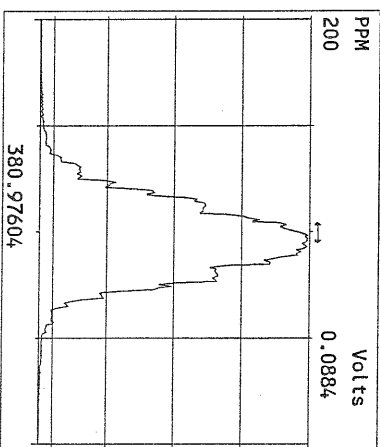
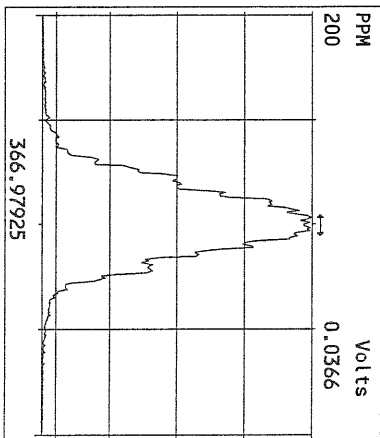
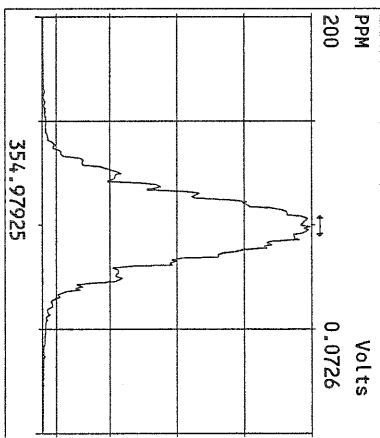
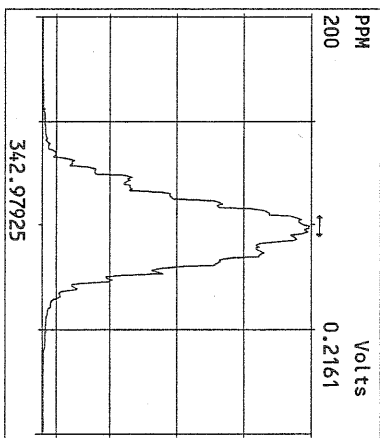
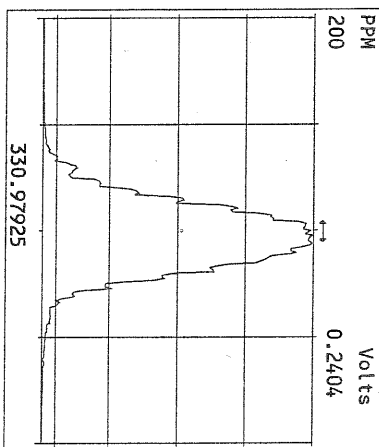
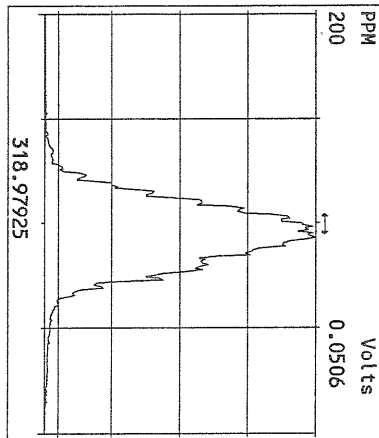
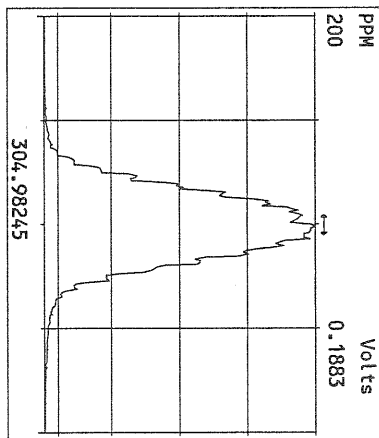
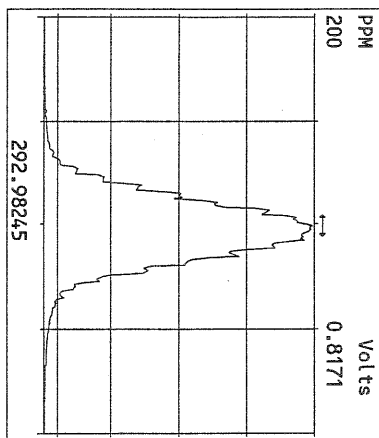
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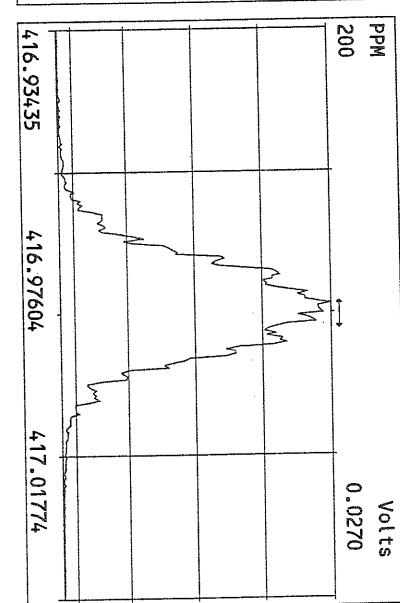
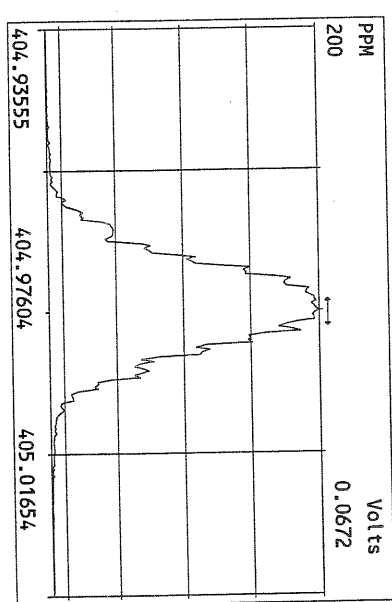
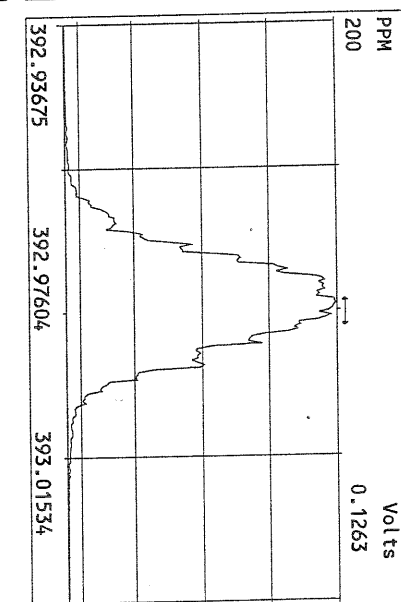
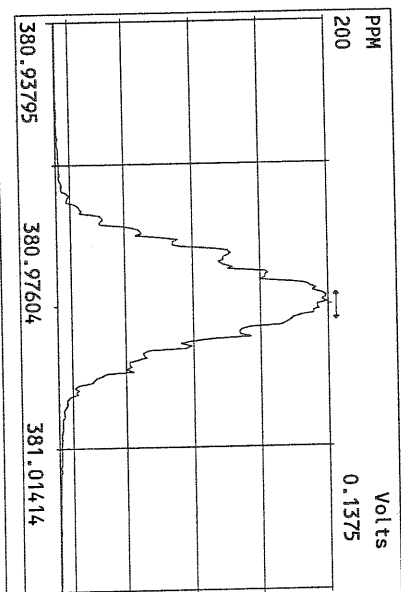
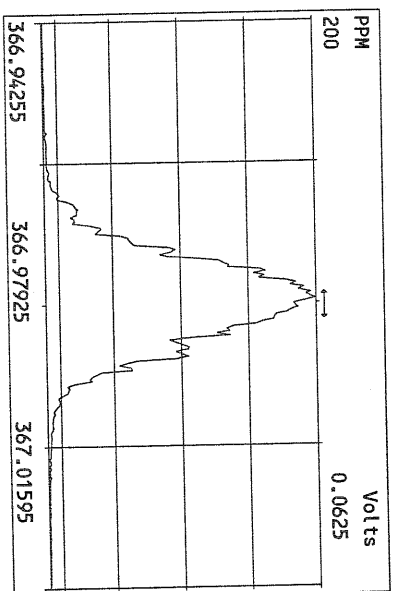
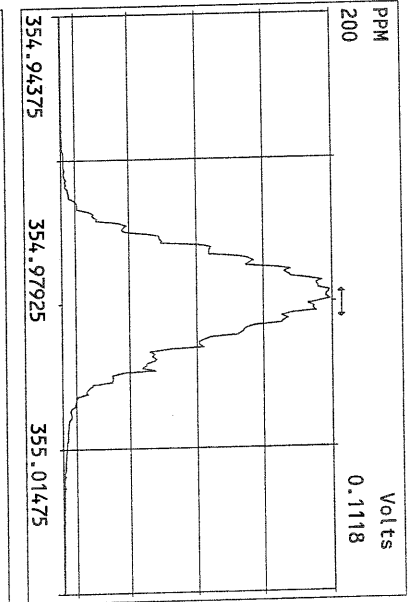
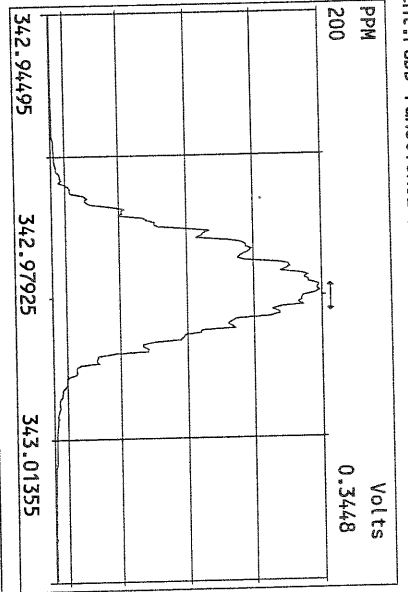
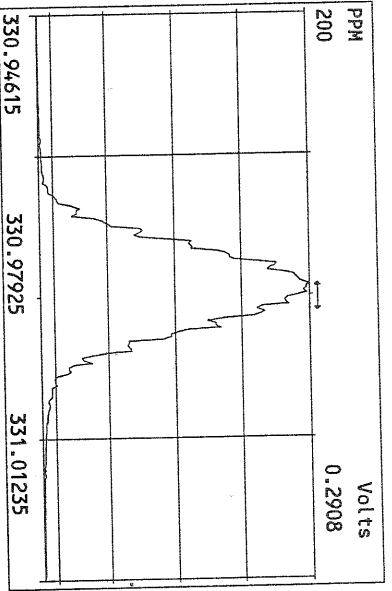


8/12/10

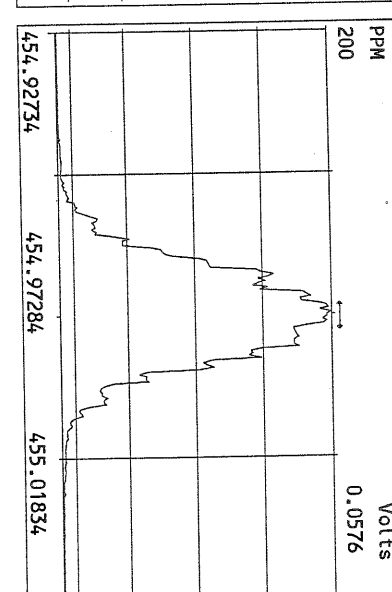
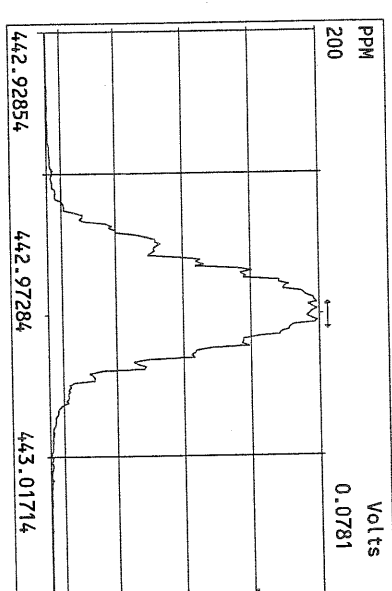
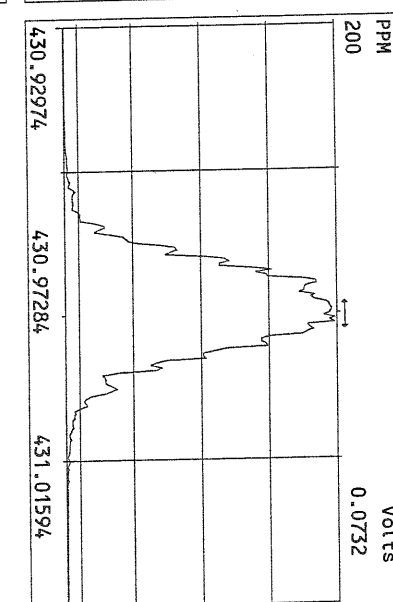
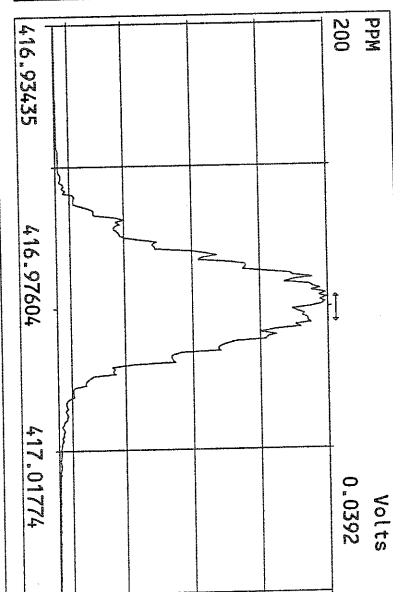
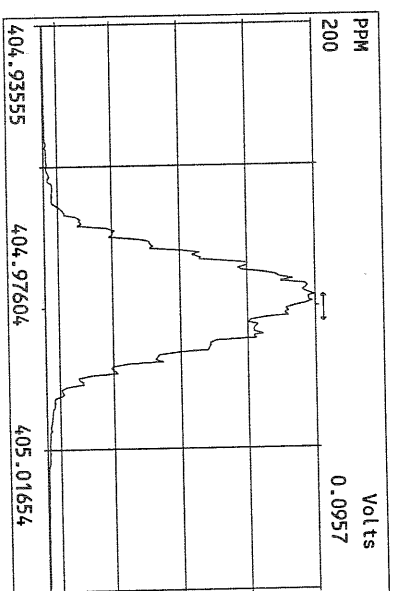
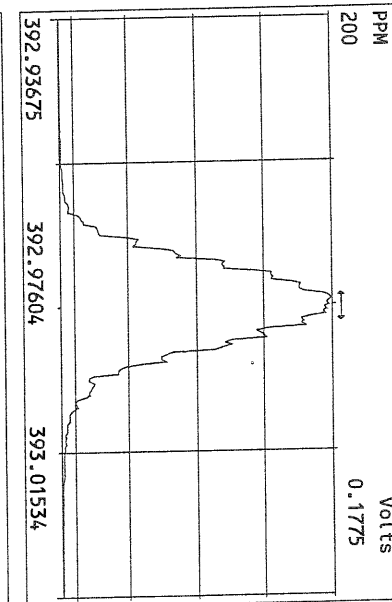
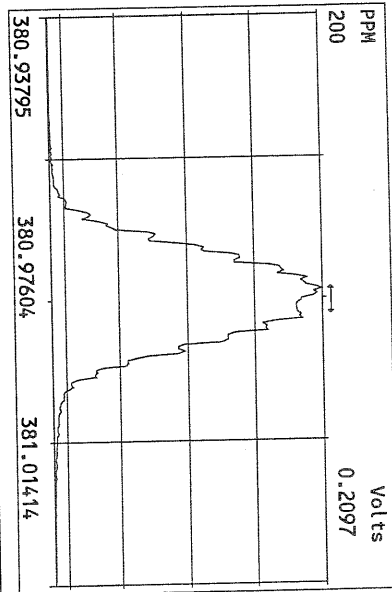
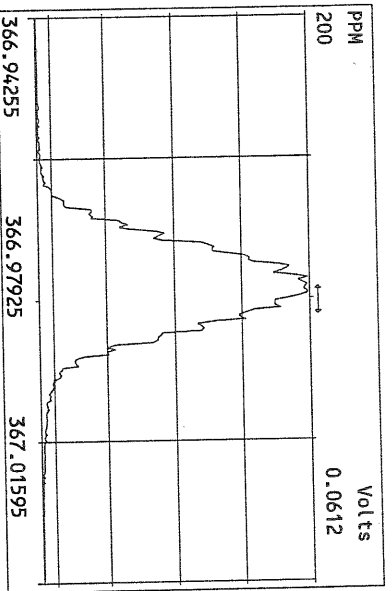
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Date: _____

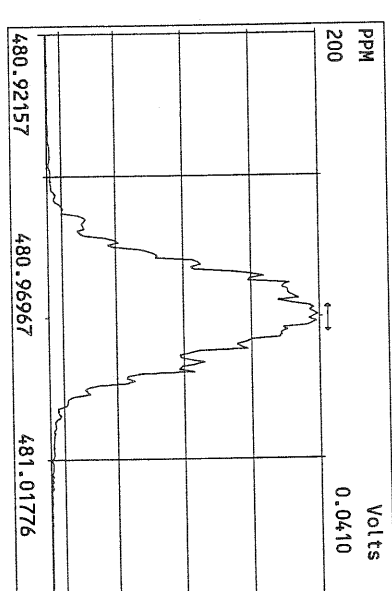
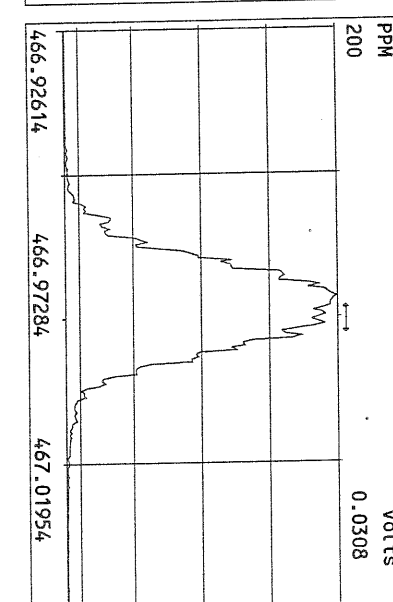
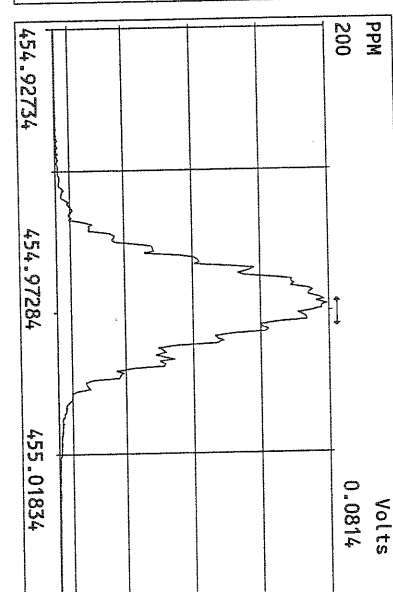
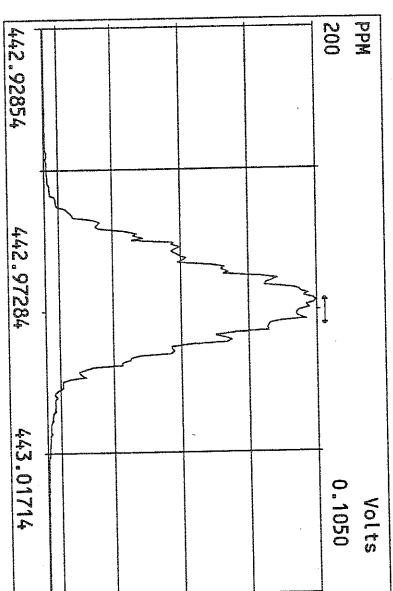
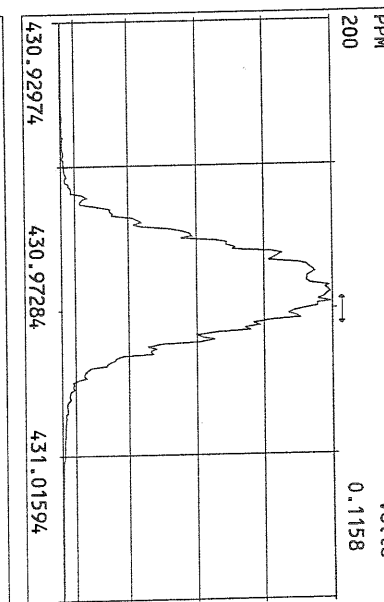
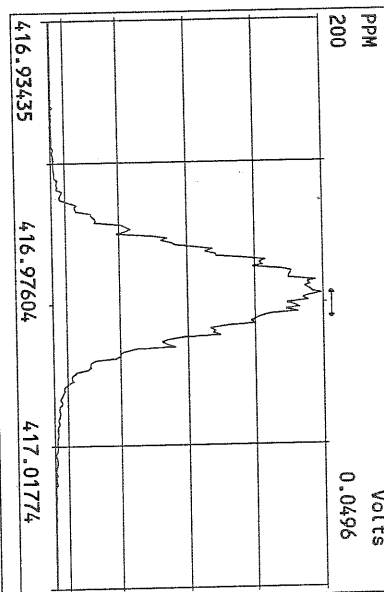
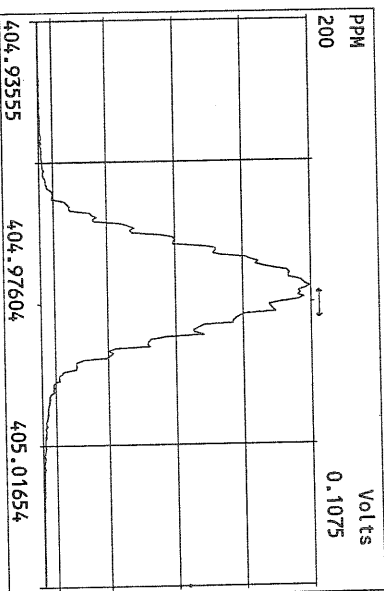


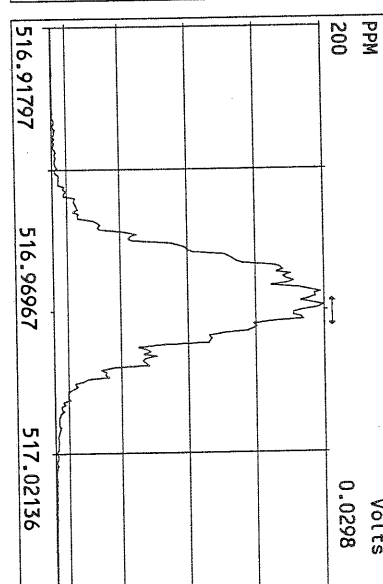
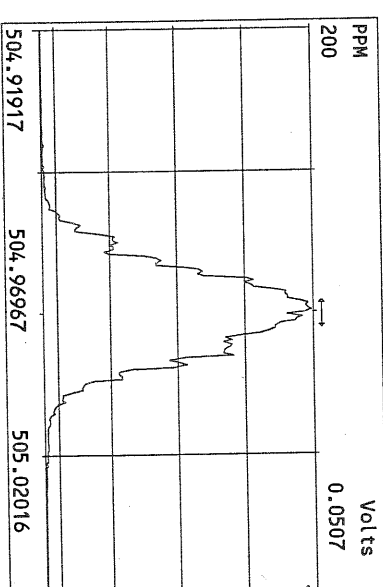
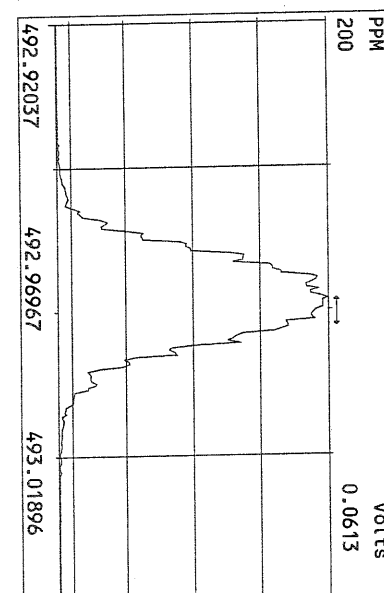
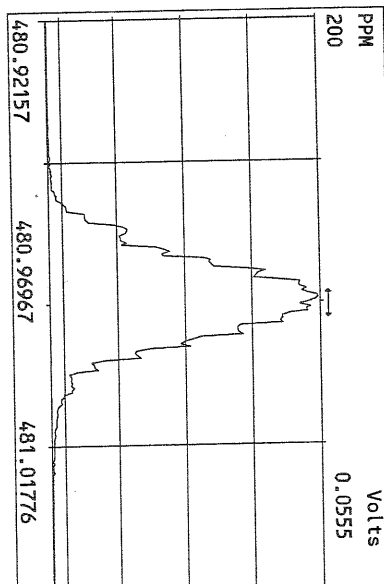
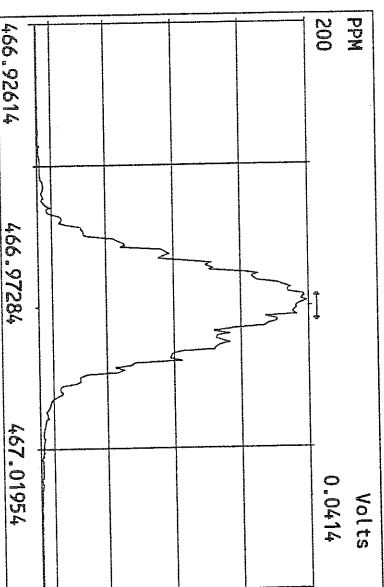
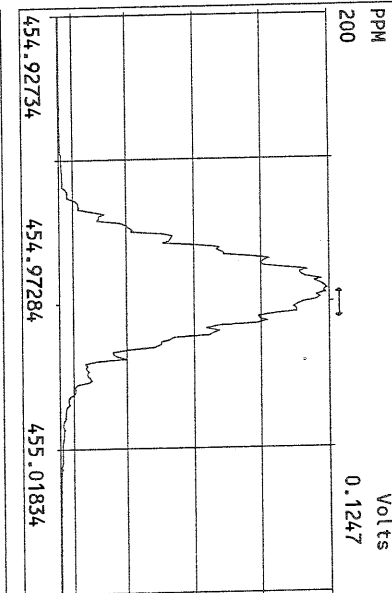
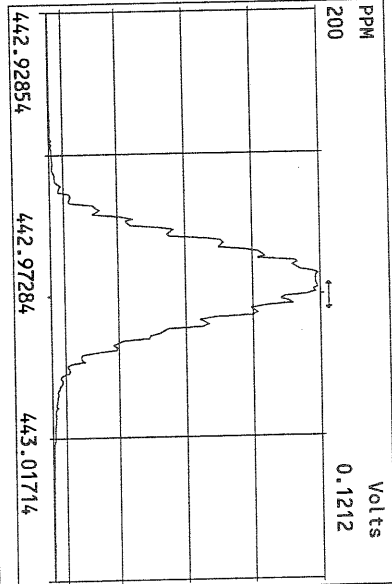
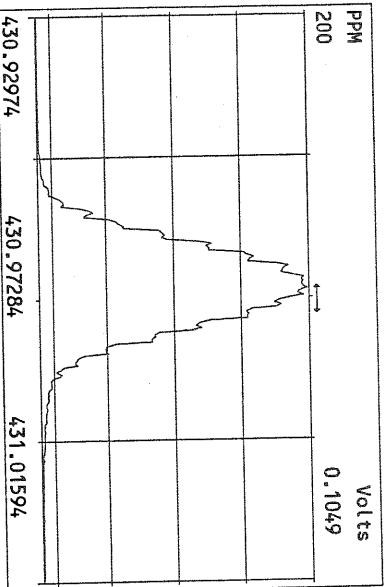


Peak Locate Examination:11-AUG-2010:09:35 File:11AUG10M
Experiment:PCDD Function:3 Reference:PFK

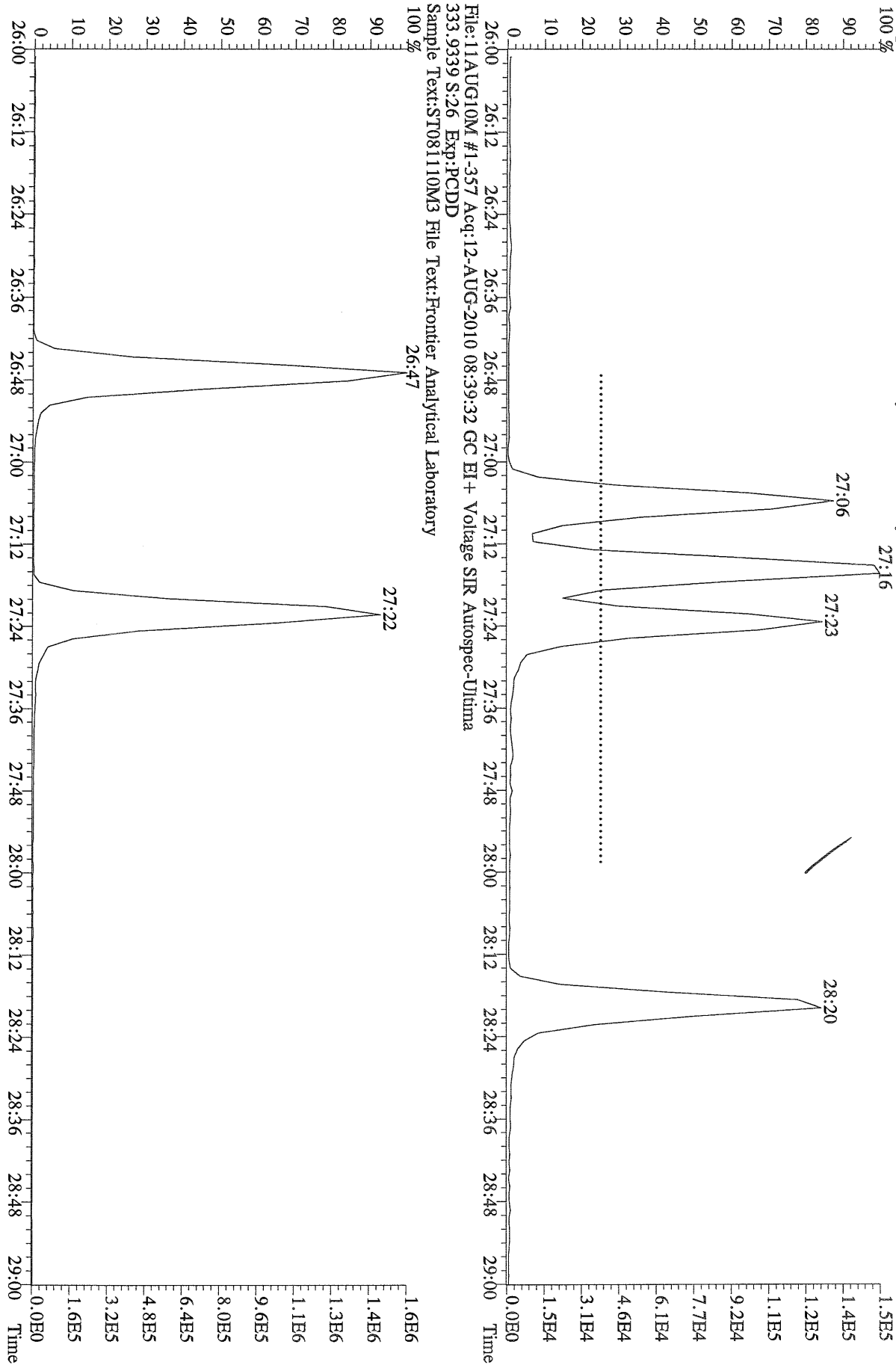


Peak Locate Examination:11-AUG-2010:09:35 File:11AUG10M
Experiment:PCDD Function:4 Reference:PFK



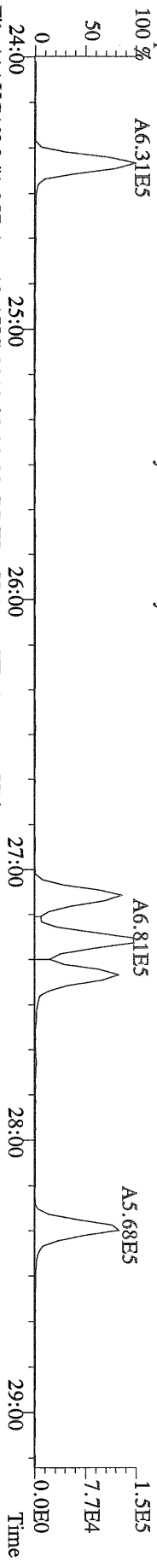


File:11AUG10M #1-357 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:26 Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory

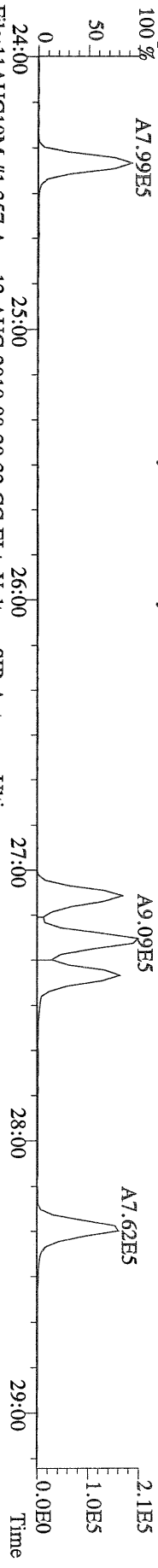


File:11AUG10M #1-357 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:26 Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory

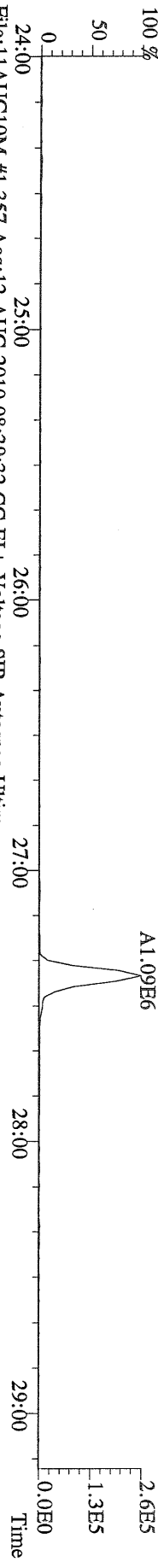
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319.8965 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



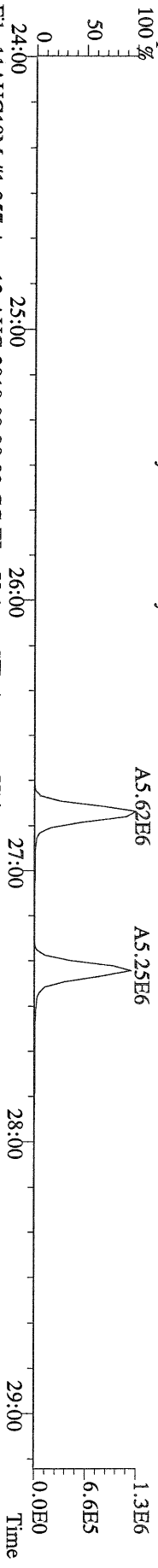
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321.8936 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



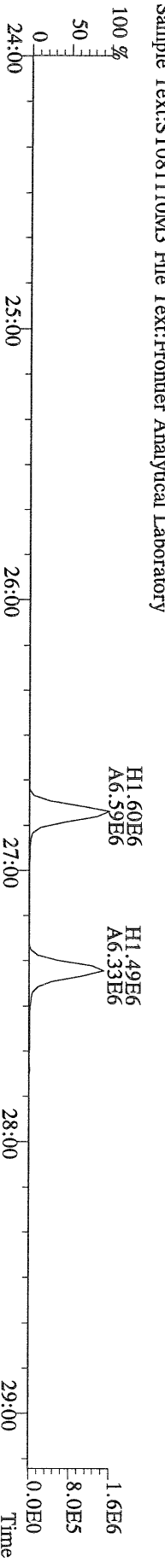
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327.8847 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



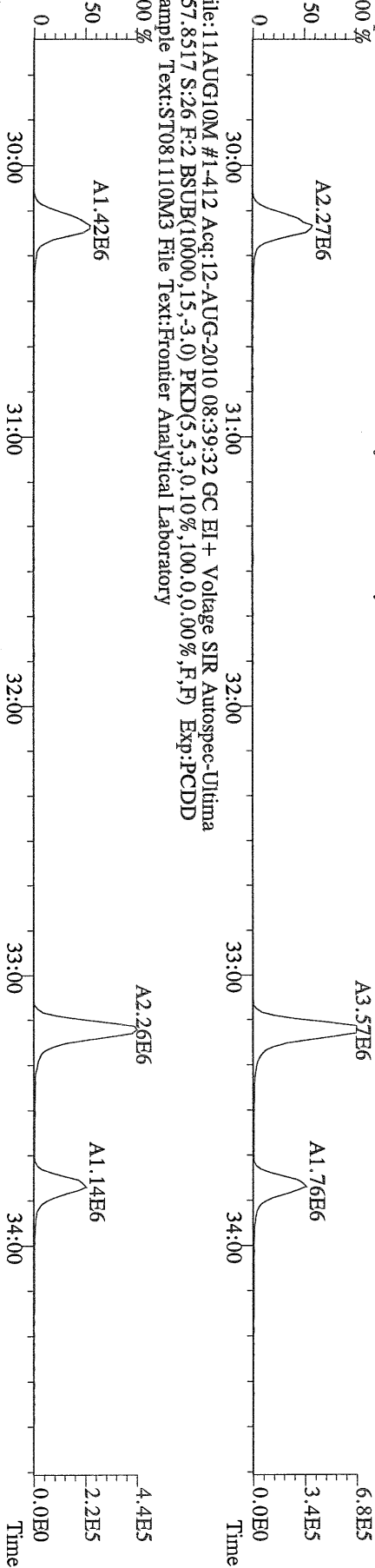
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331.9368 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



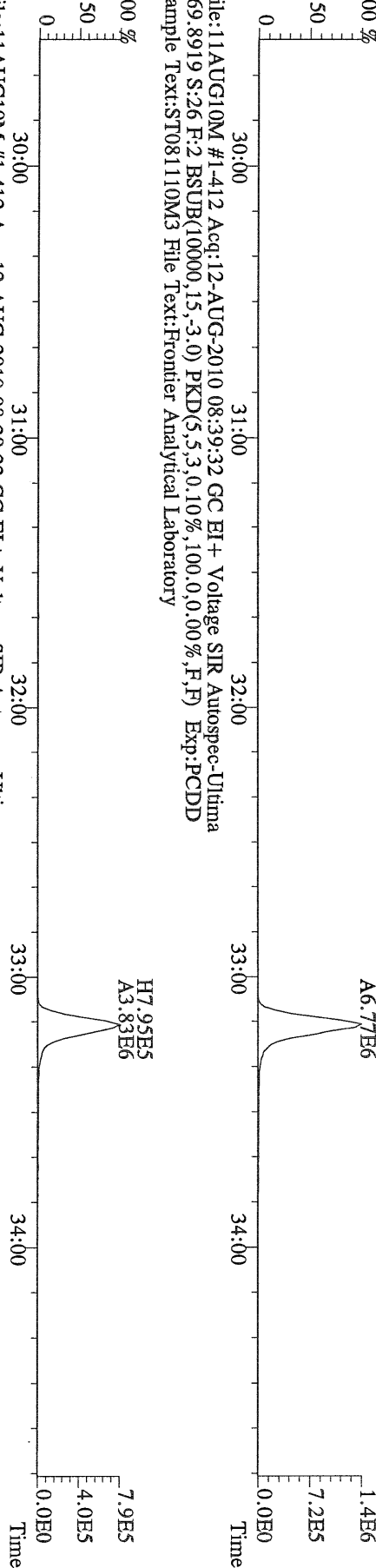
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333.9339 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



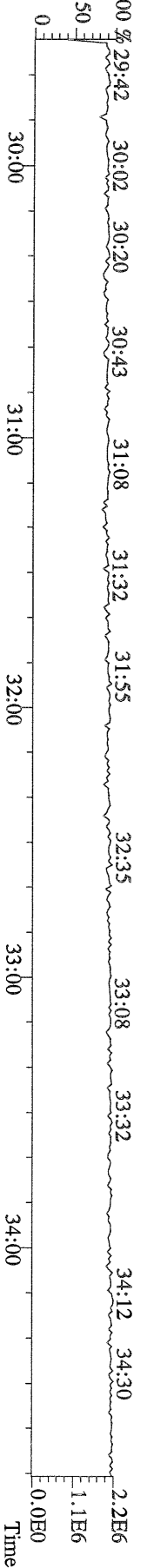
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355.8546 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



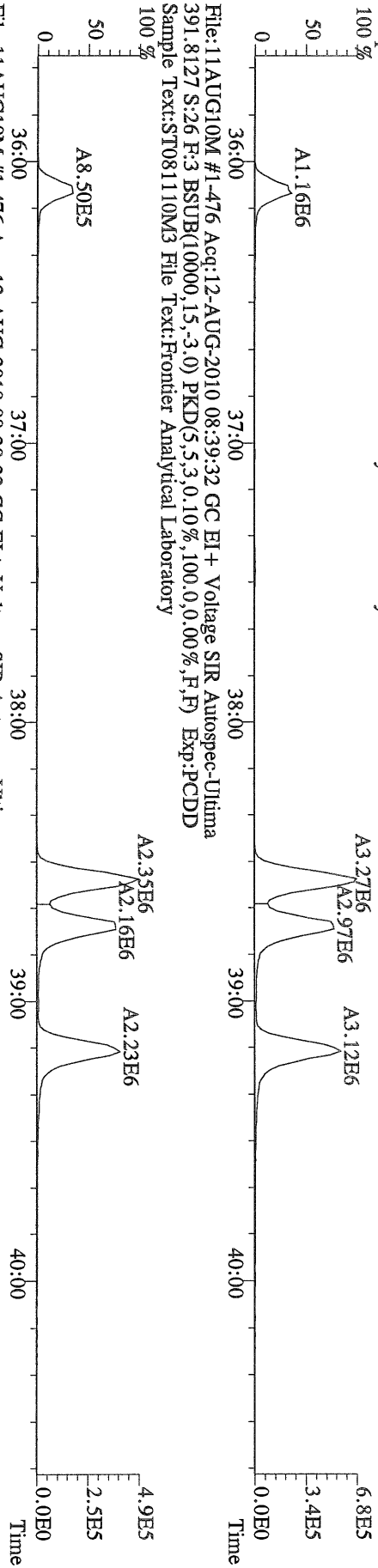
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367.8949 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



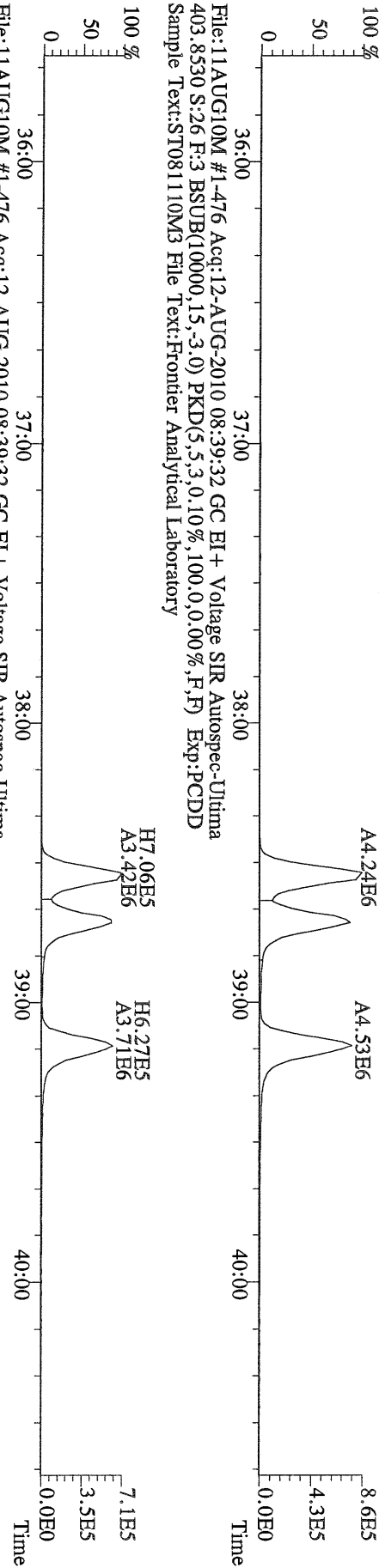
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366.9792 S:26 F:2 Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



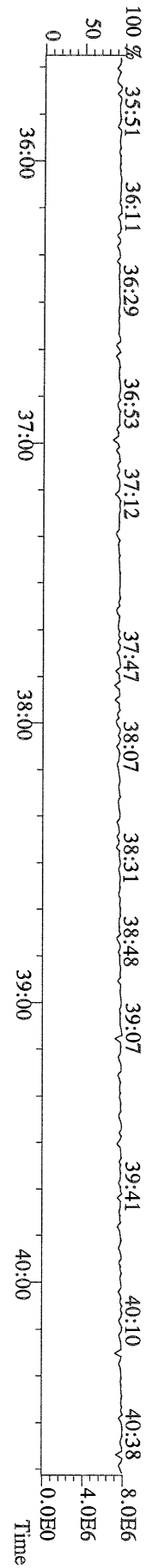
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389.8156 S:26 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



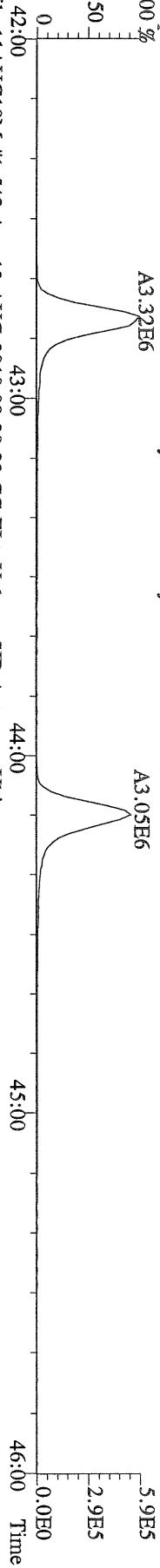
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401.8559 S:26 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



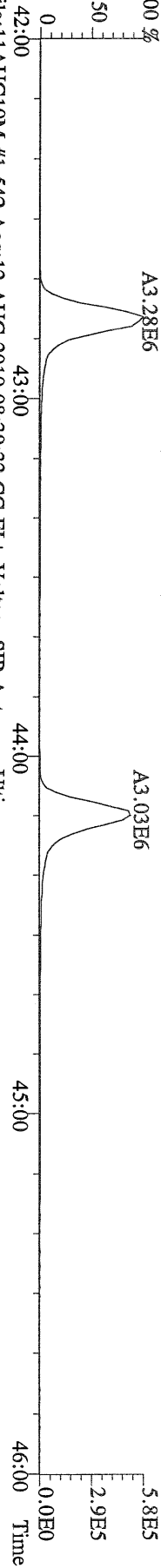
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380.9760 S:26 F:3 Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



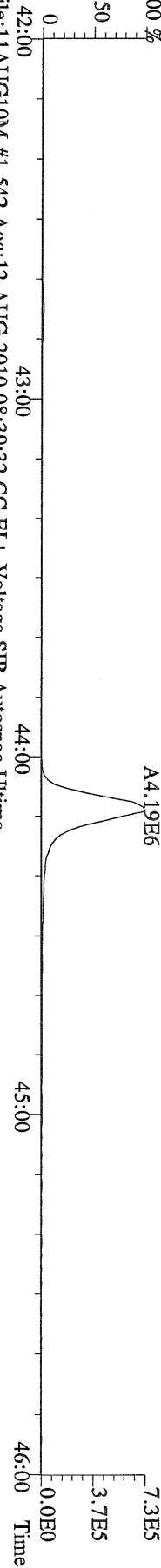
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423.7767 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



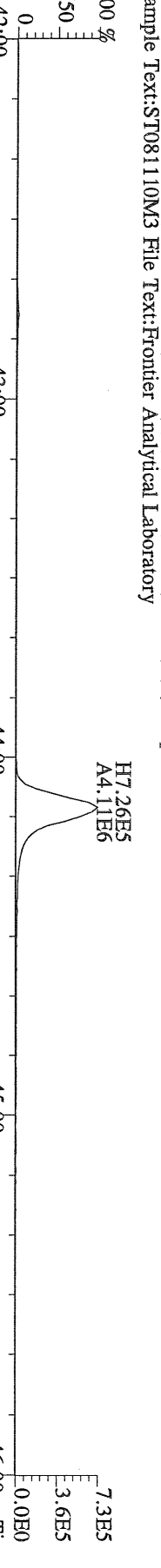
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425.7737 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



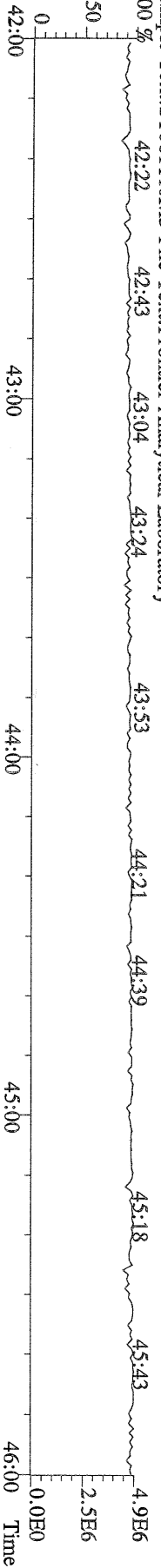
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435.8169 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



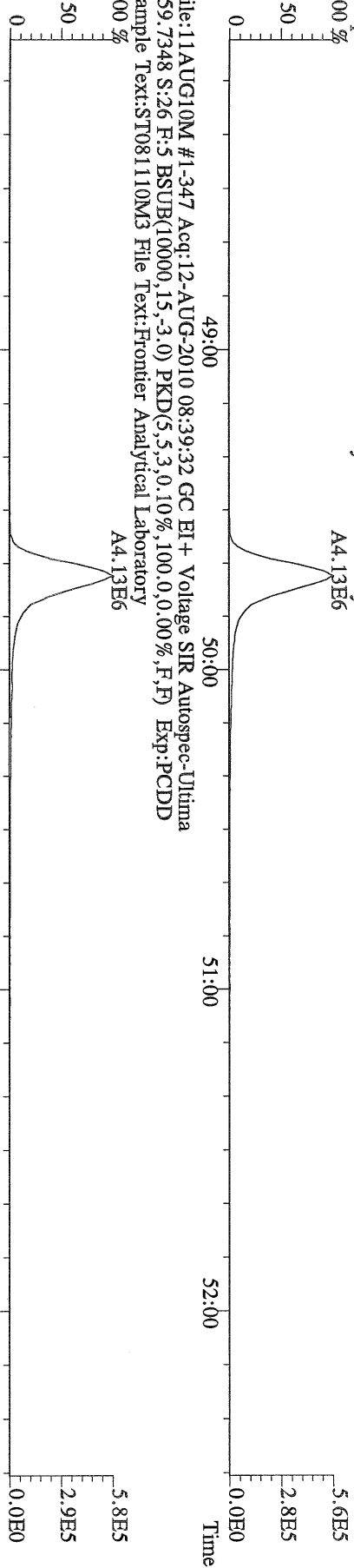
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437.8140 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



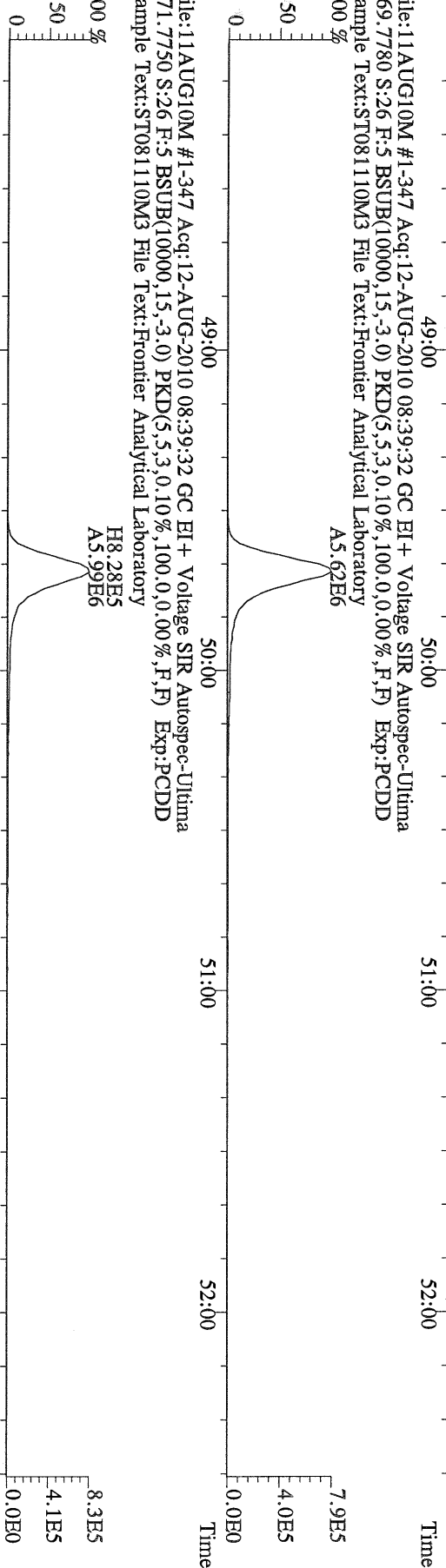
File:11AUG10M #1-542 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:26 F:4 Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



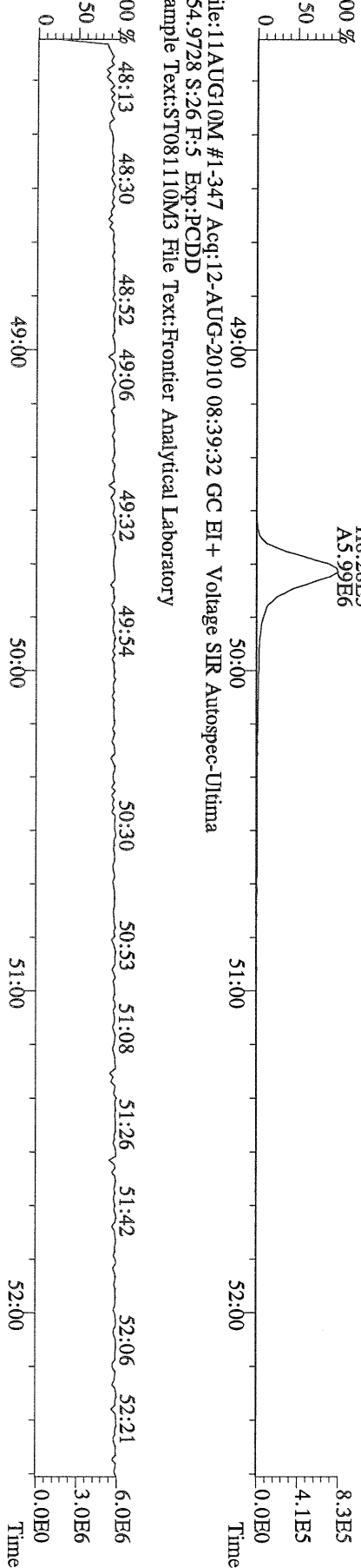
File:11AUG10M #1-347 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory
100 %



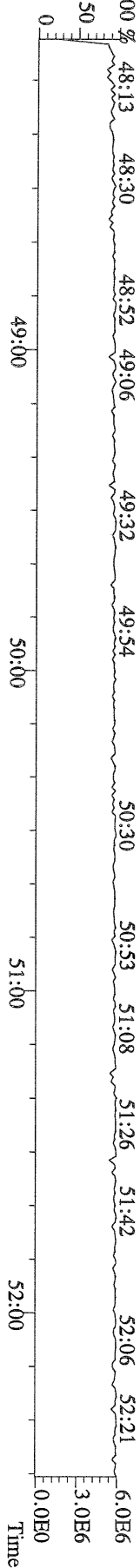
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469.7780 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory
100 %



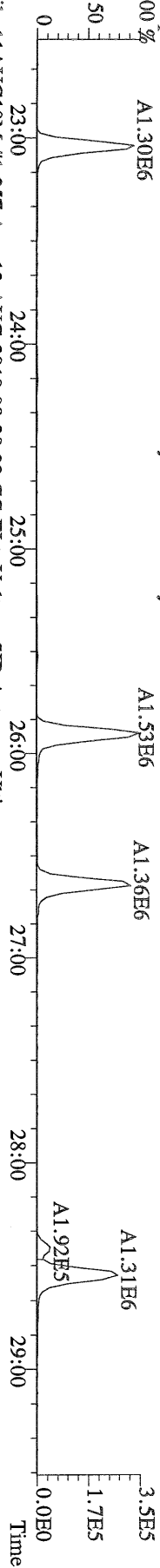
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471.7750 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



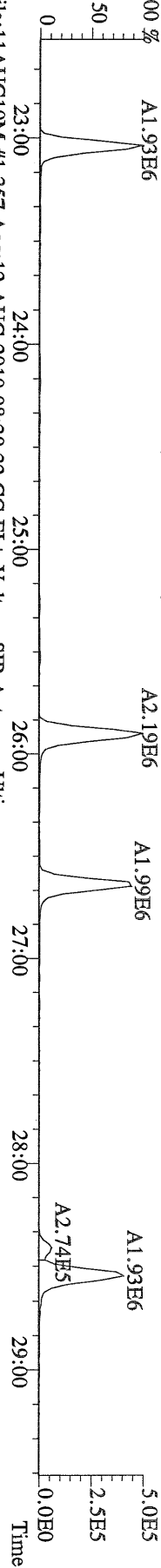
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454.9728 S:26 F:5 Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



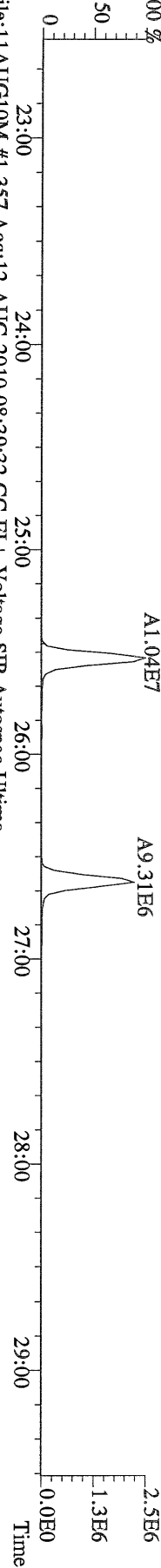
File:11AUG10M #1-357 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



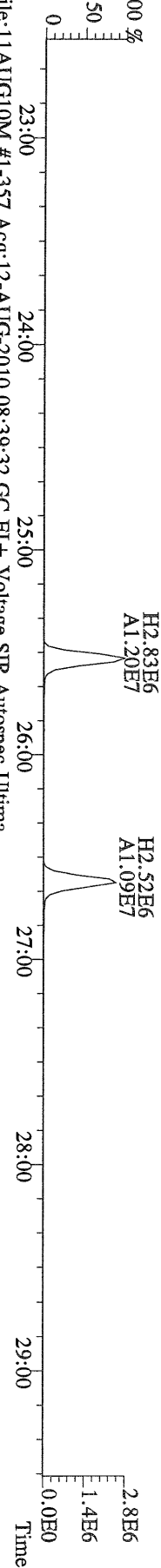
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 305.8987 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



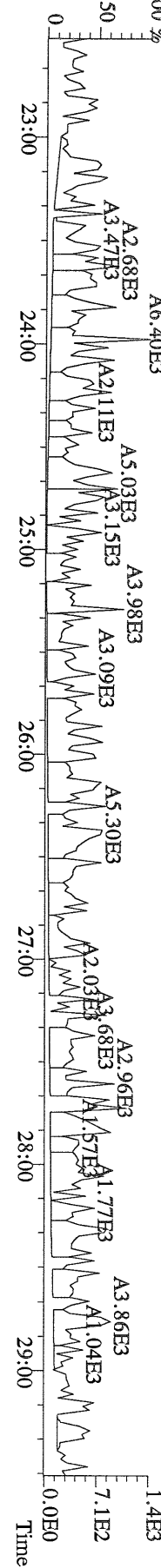
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 315.9419 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



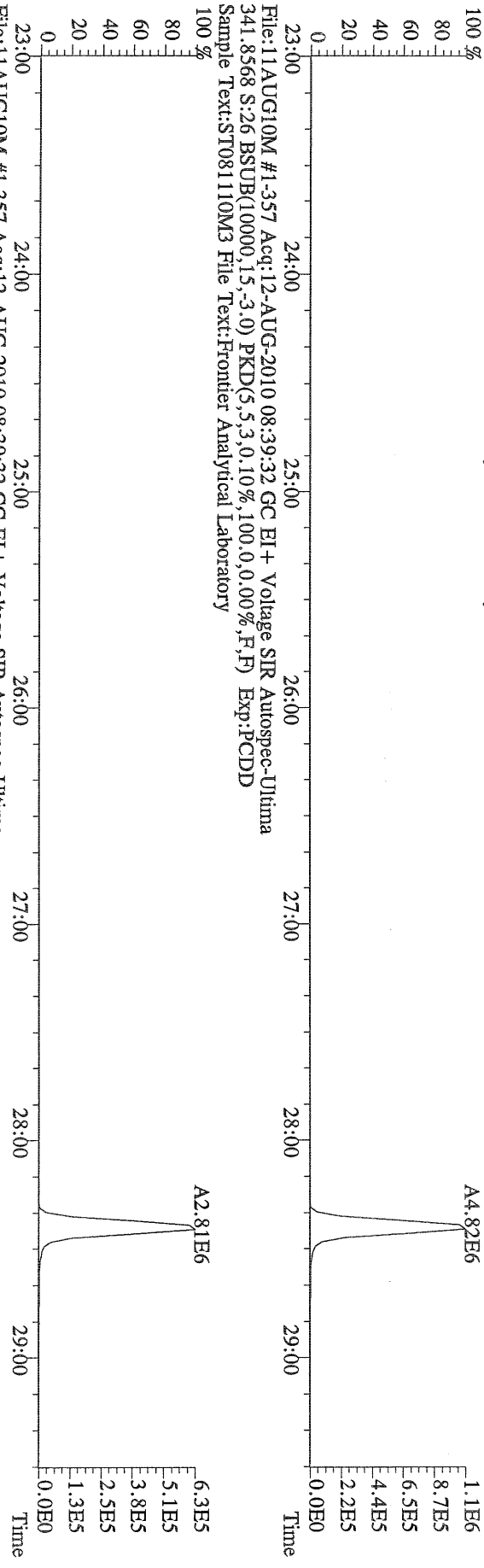
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 317.9389 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



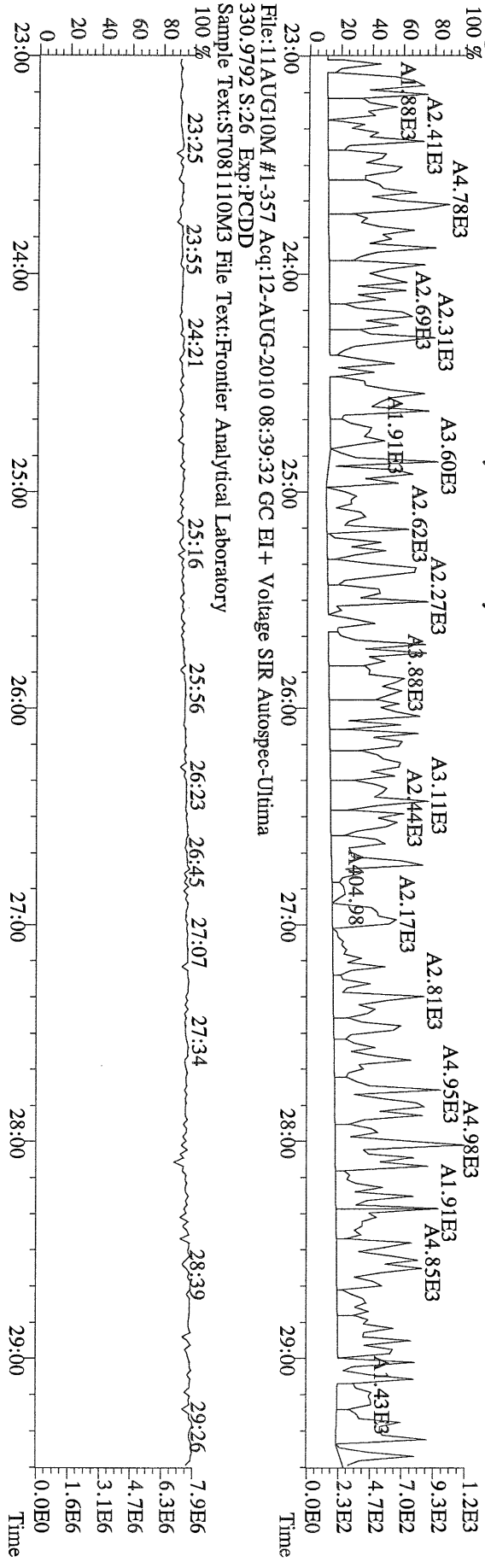
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 375.8364 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



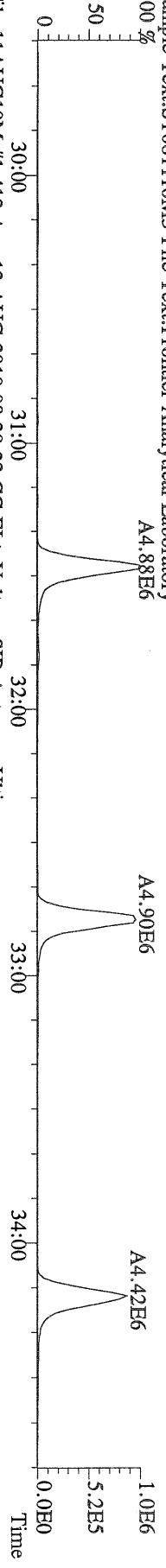
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 339.8597 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



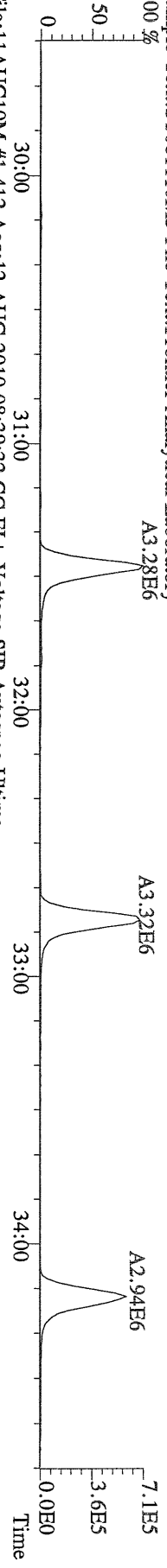
File:11AUG10M #1-357 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



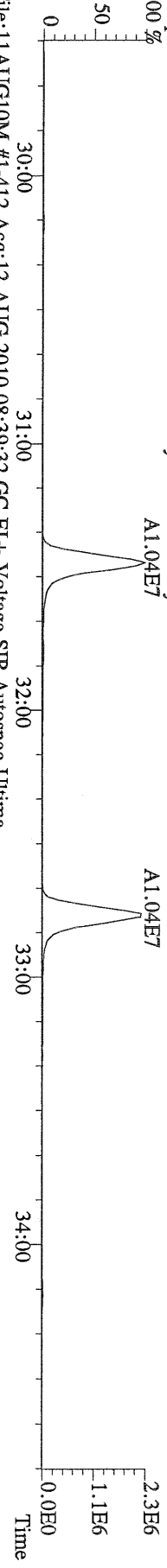
File:11AUG10M #1-412 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



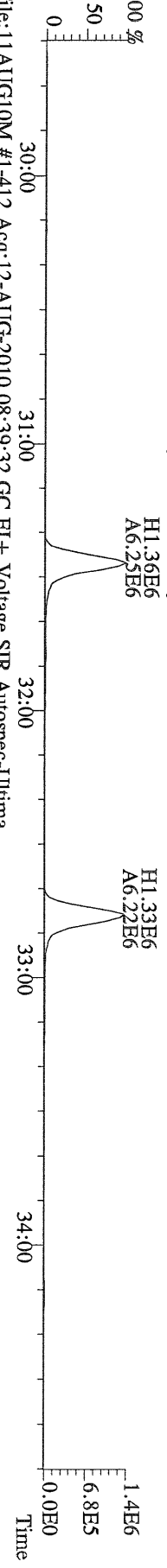
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 341.8568 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



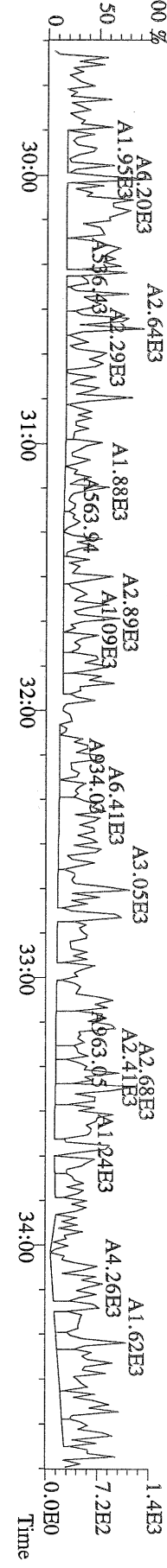
File:11AUG10M #1-412 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Utima
 351.9000 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



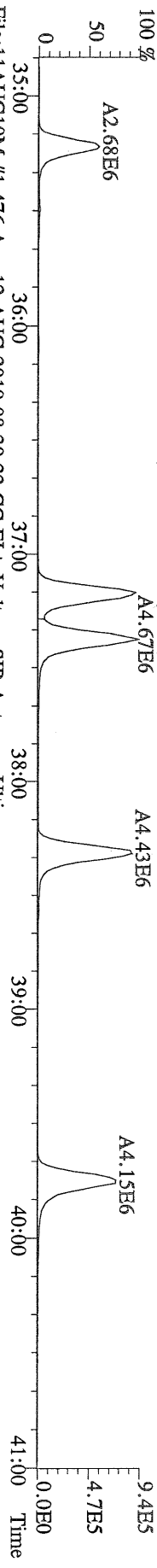
File:11AUG10M #1-412 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Utima
 353.8970 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



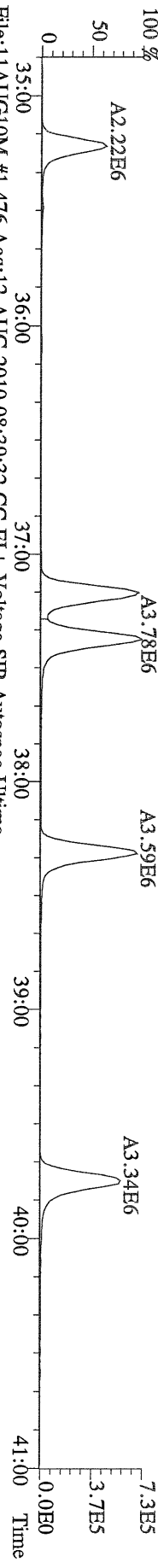
File:11AUG10M #1-412 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



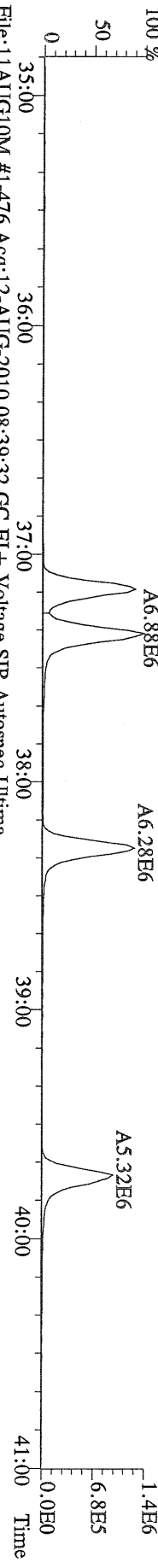
File:11AUG10M #1-476 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:26 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



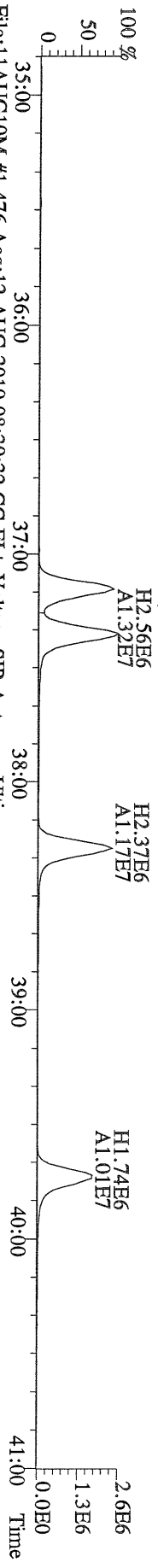
File:11AUG10M #1-476 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:26 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



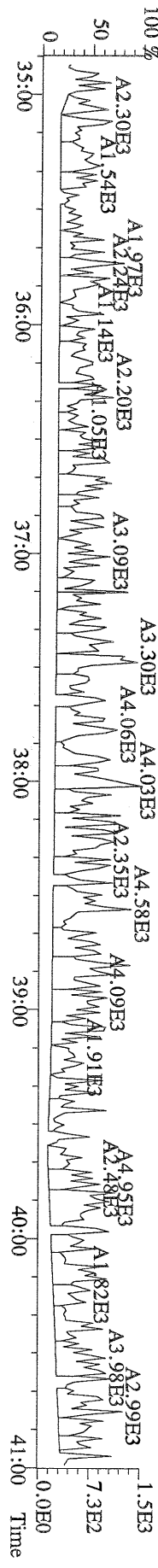
File:11AUG10M #1-476 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:26 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



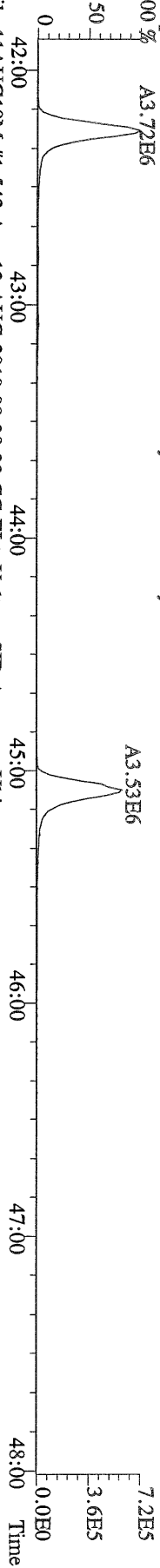
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385.8610 S:26 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



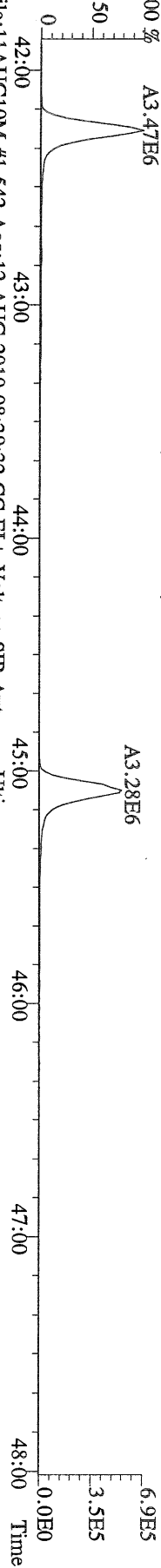
File:11AUG10M #1-476 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:26 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



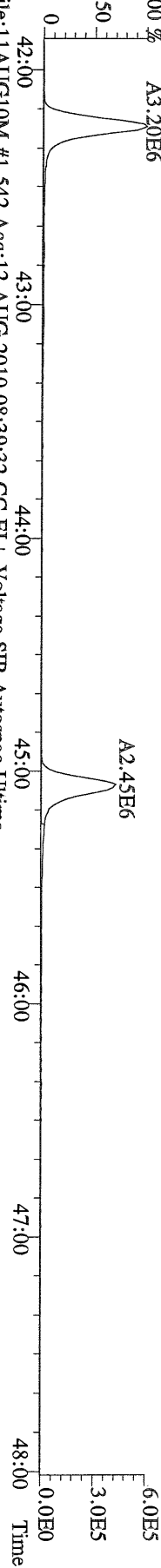
File:11AUG10M #1-542 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory
100 % A3.72E6



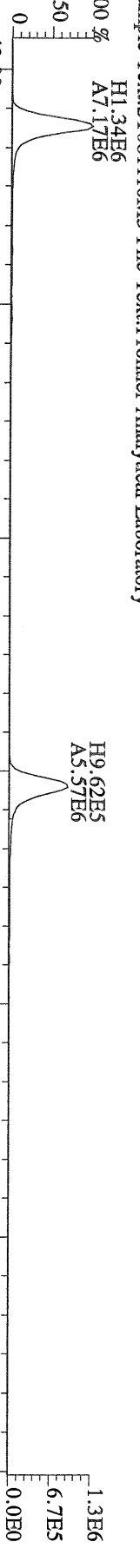
File:11AUG10M #1-542 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory
100 % A3.47E6



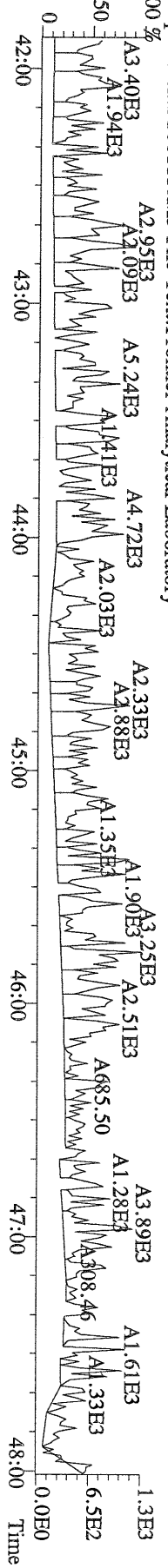
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Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory
100 % A3.20E6



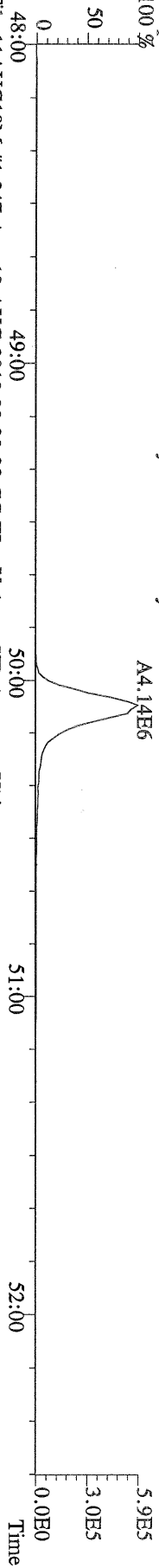
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419.8220 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



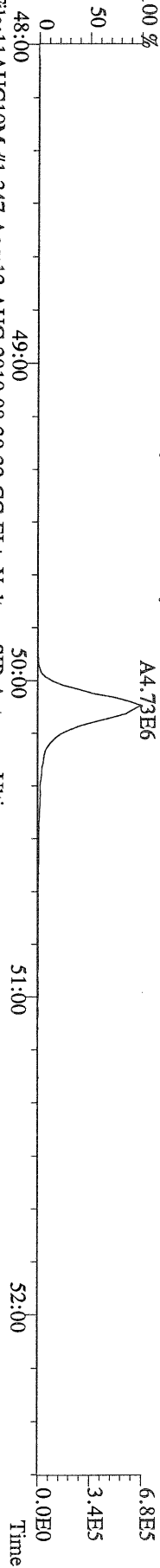
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479.7165 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:12-AUG-2010 08:39:32 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



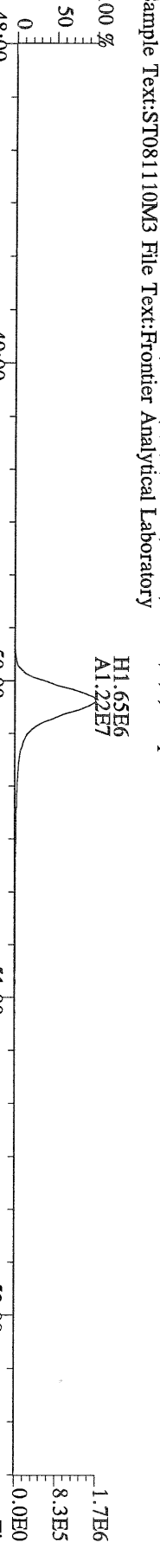
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 443.7398 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory



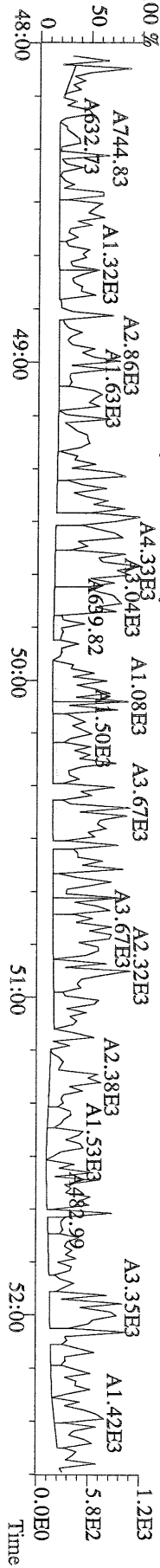
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 453.7831 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory

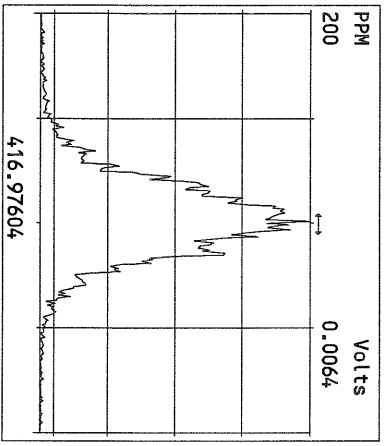
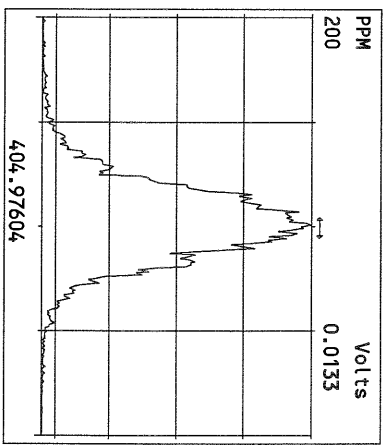
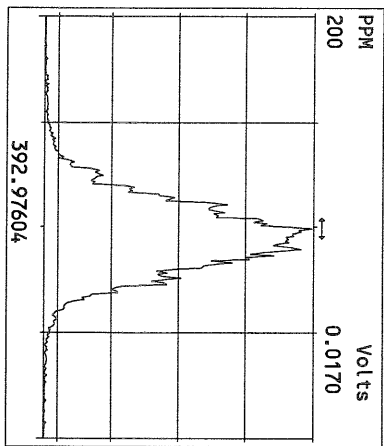
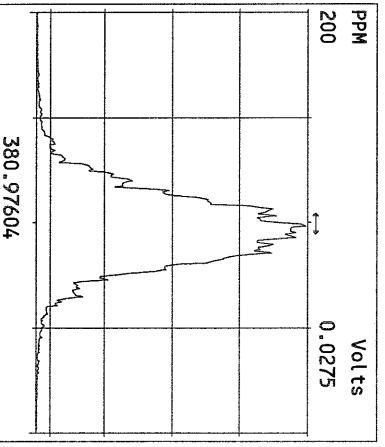
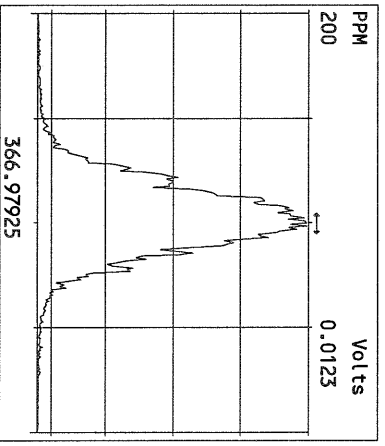
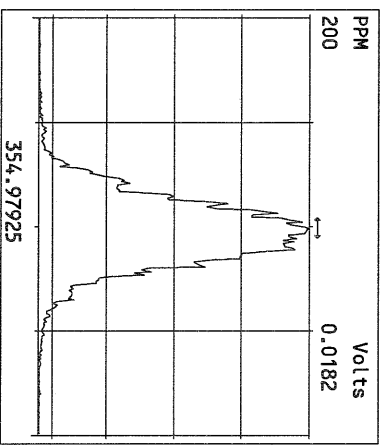
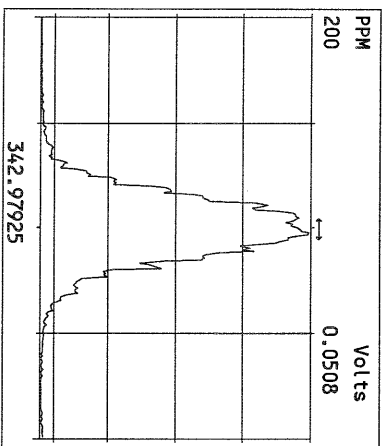
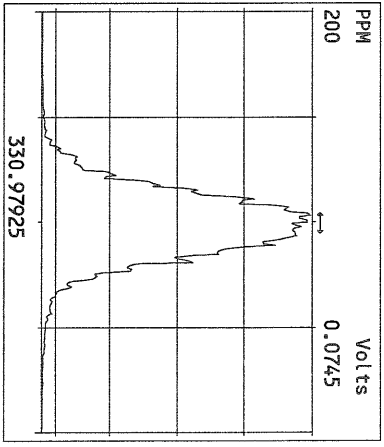
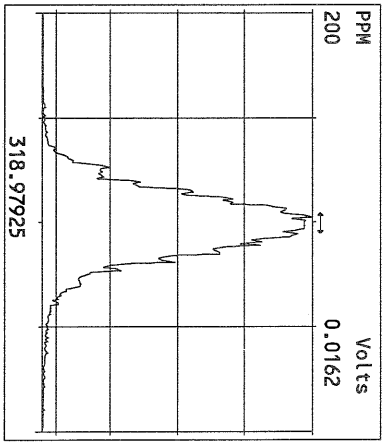
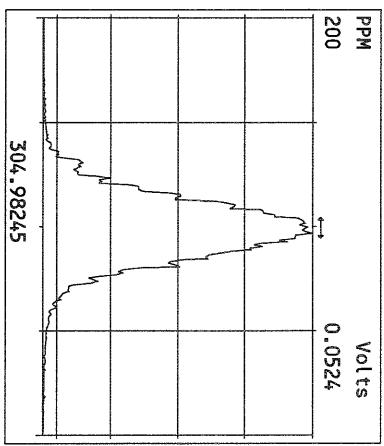
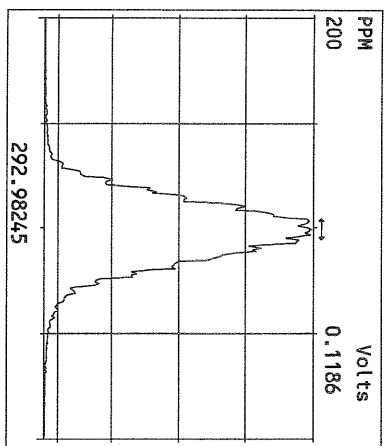


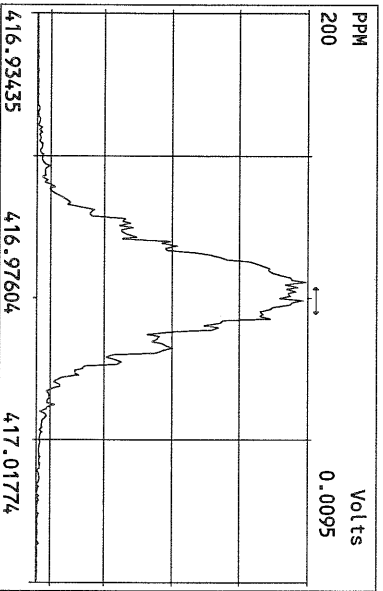
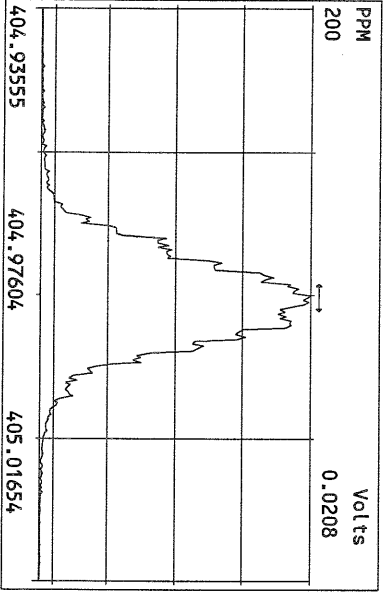
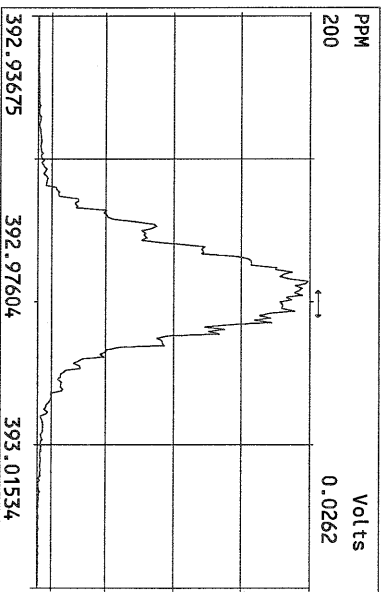
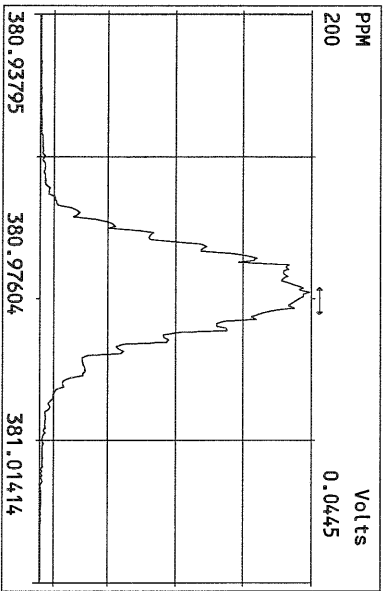
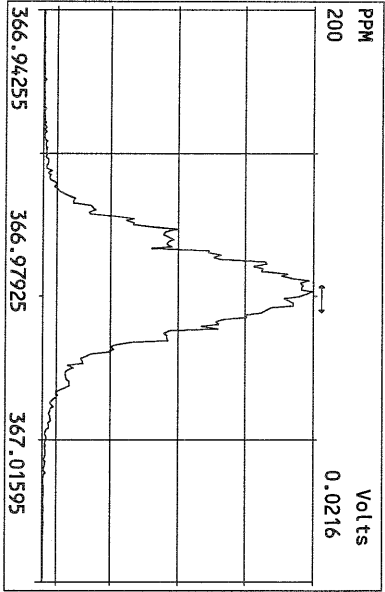
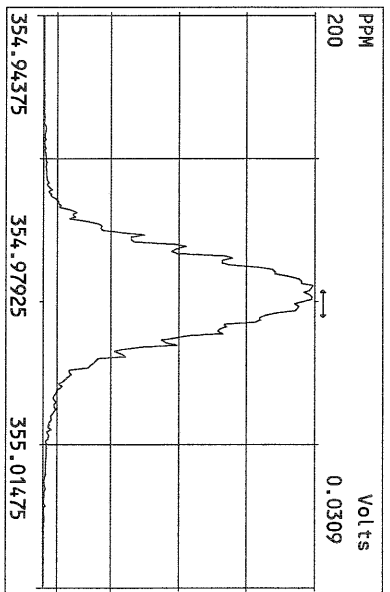
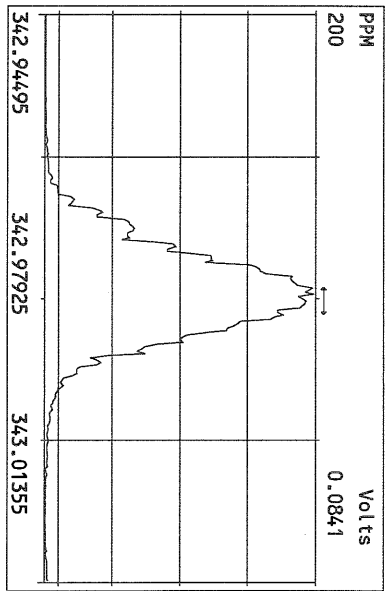
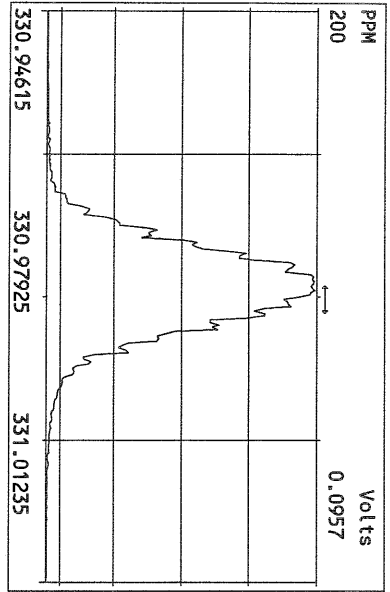
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 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory

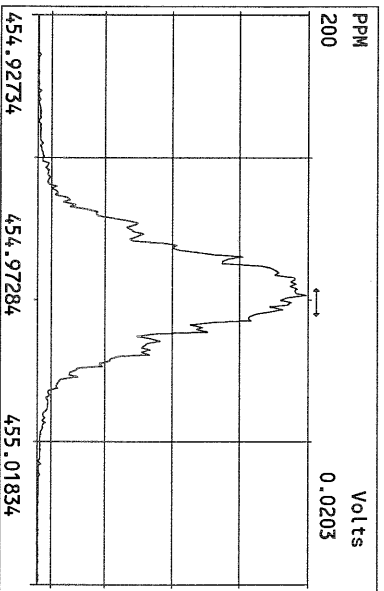
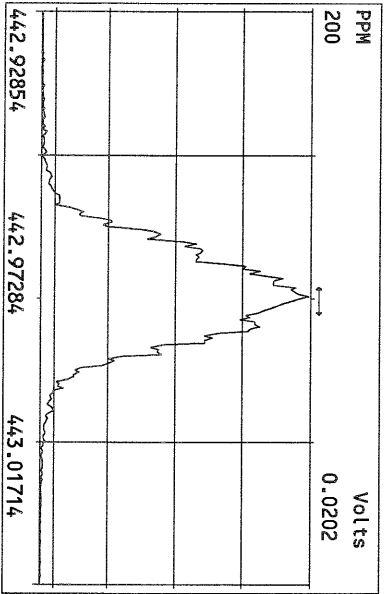
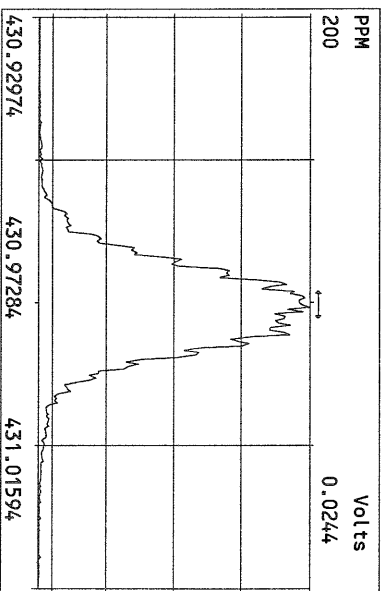
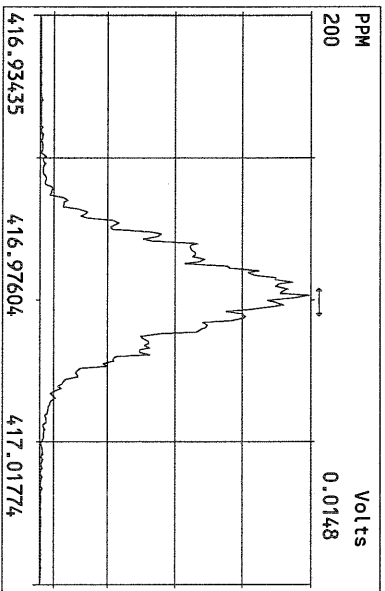
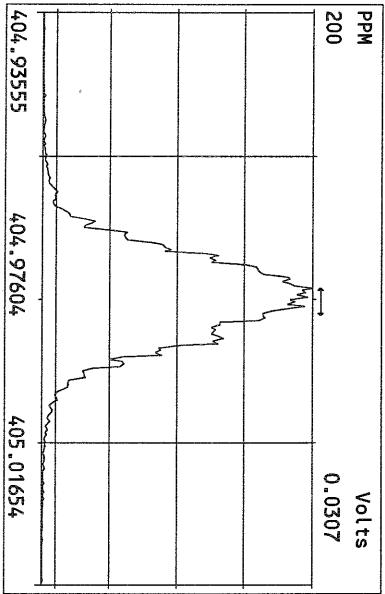
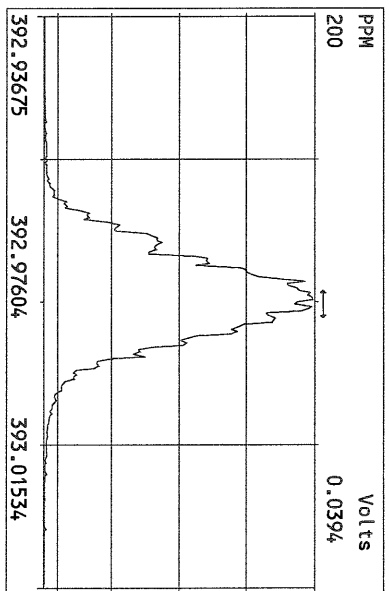
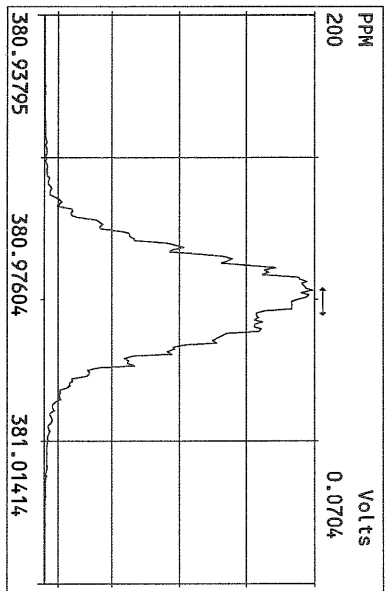
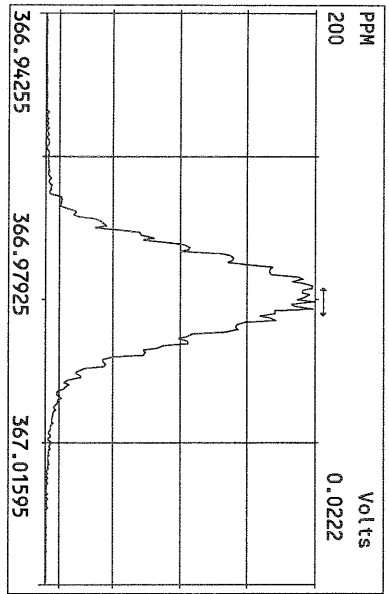


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 513.6775 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081110M3 File Text:Frontier Analytical Laboratory

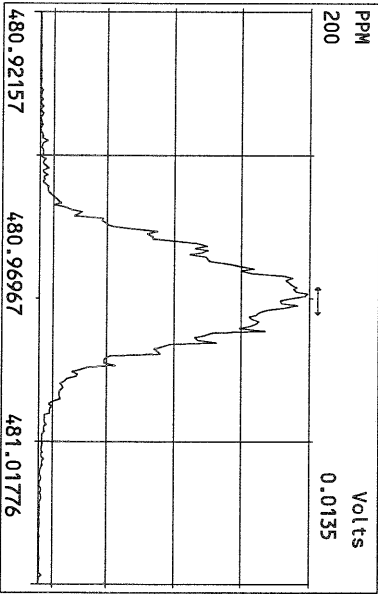
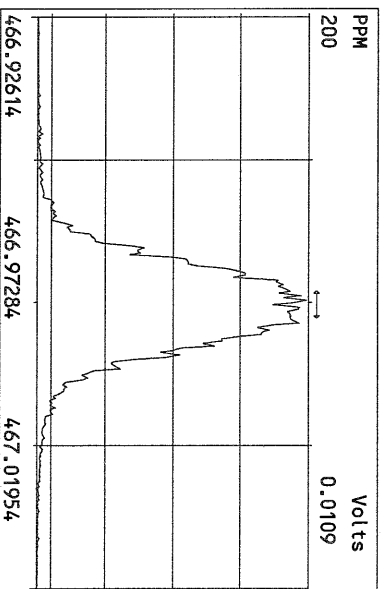
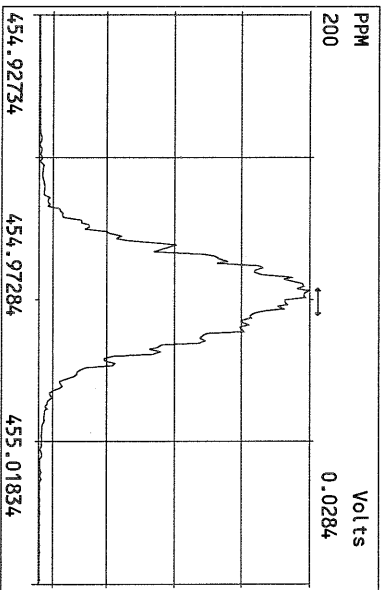
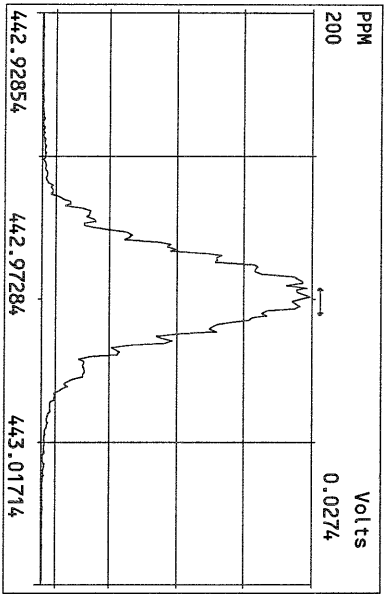
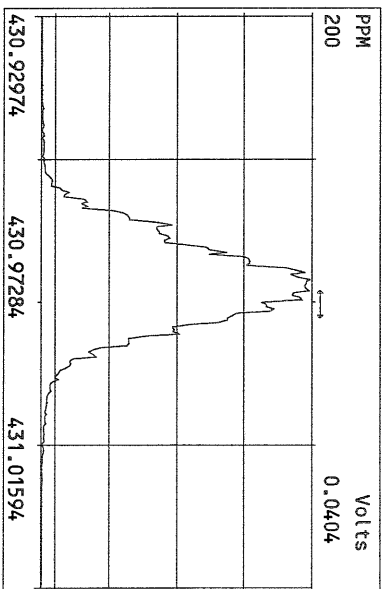
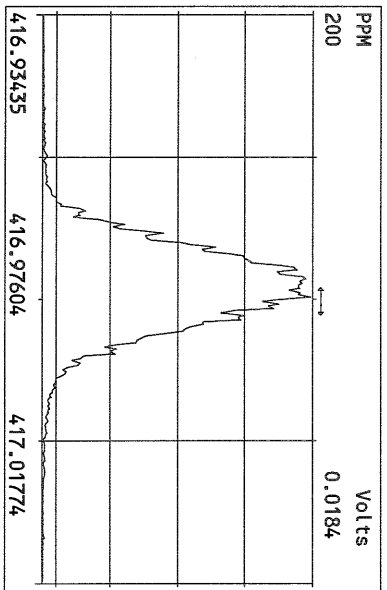
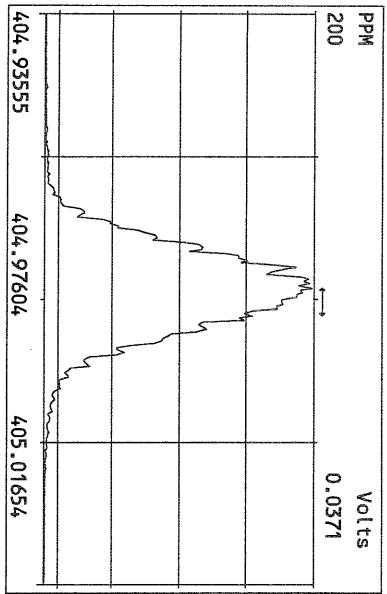


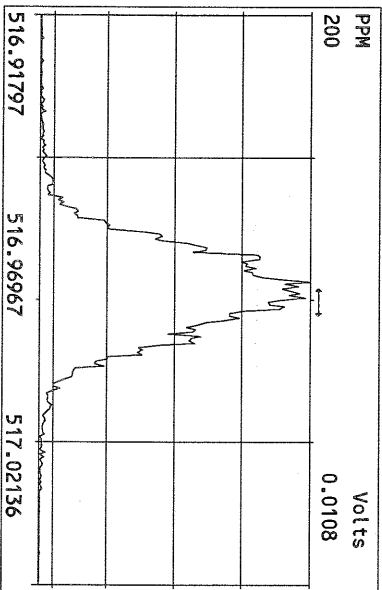
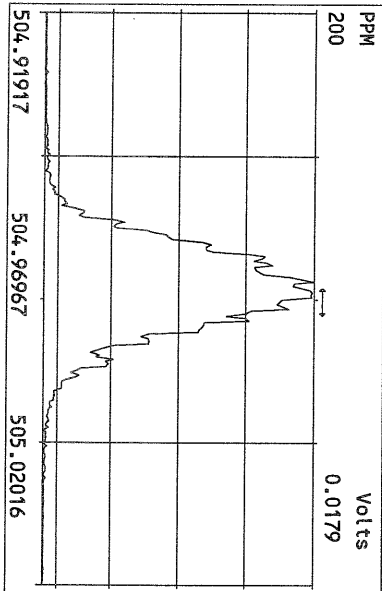
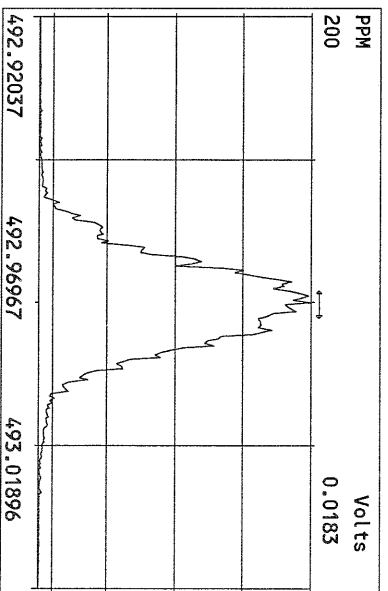
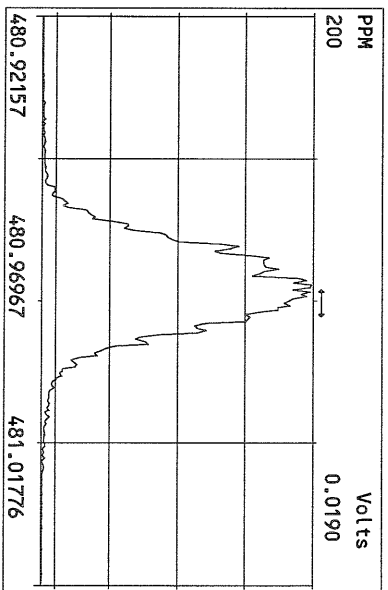
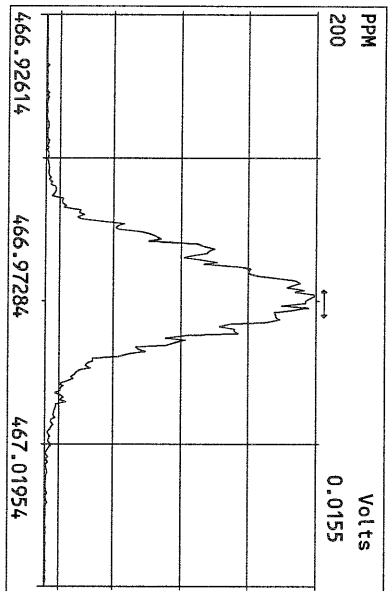
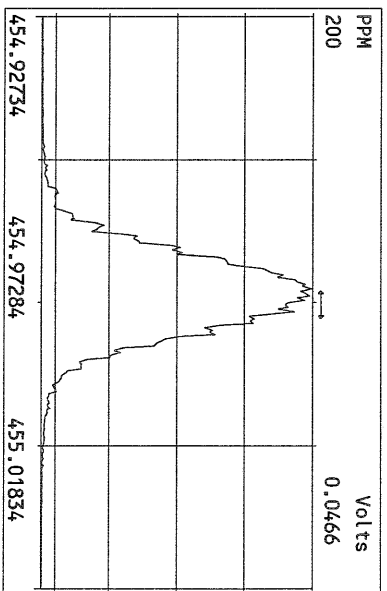
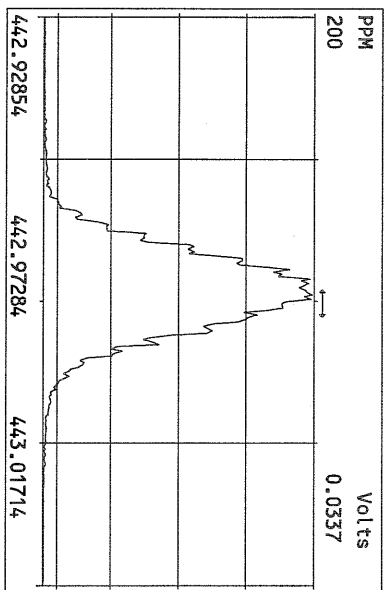
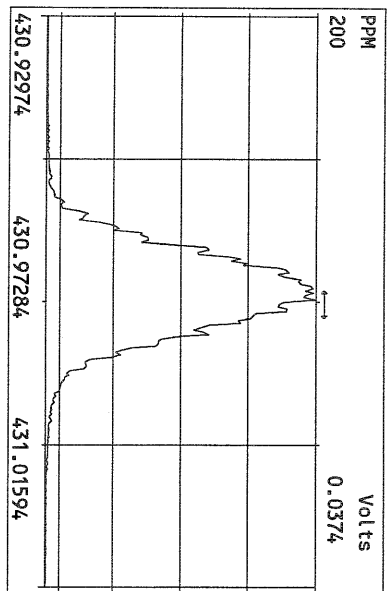






Peak Locate Examination:12-AUG-2010:09:42 File:11AUG10M_RES_CHECK
 Experiment:PCDD Function:4 Reference:PFK





August 13, 2010

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

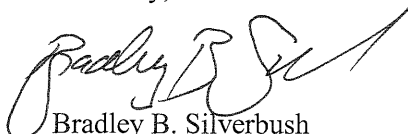
Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6278**. This corresponds to your **Lora Lake RI** project under ARI project number **RG58**. Six soil samples were received on 8/4/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors (TEFs) were used to calculate the toxic equivalents (TEQ) on your report. Analytical Resources Incorporated requested a Level IV data package and a turnaround time of fifteen business days for project **6278**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. You also requested Electronic Data Deliverables (EDD) for this project. The EDD and Level I summary have been sent to you via email. The Level IV report has been sent to you on compact disk. A hardcopy of the data package will not be forwarded unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6278**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 6278

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

Project Due: **08/26/2010** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6278-001-SA	0	RG58	PSB22-0-0.5-072910	EPA 1613 D/F	Soil	07/29/2010	09:05 am	07/29/2011
6278-002-SA	0	RG58	PSB22-1.5-2-072910	EPA 1613 D/F	Soil	07/29/2010	09:10 am	07/29/2011
6278-003-SA	0	RG58	PSB23-0-0.5-072910	EPA 1613 D/F	Soil	07/29/2010	12:10 pm	07/29/2011
6278-004-SA	0	RG58	PSB23-1.5-2-072910	EPA 1613 D/F	Soil	07/29/2010	12:05 pm	07/29/2011
6278-005-SA	0	RG58	PSB24-0-0.5-072910	EPA 1613 D/F	Soil	07/29/2010	10:33 am	07/29/2011
6278-006-SA	0	RG58	PSB24-1.5-2-072910	EPA 1613 D/F	Soil	07/29/2010	10:58 am	07/29/2011

FAL Sample ID	Notes
6278-001-SA	'Sue to Kathy: Use Sample ID from COC.'
6278-002-SA	Sue to KATHy: Use sample ID from COC.
6278-003-SA	'Sue to Kathy: Use Sample ID from COC.'
6278-004-SA	Sue to Kathy: Use Sample ID from COC.
6278-005-SA	Sue to Kathy: Use Sample ID from COC.
6278-006-SA	'Sue to Kathy: Use Sample ID from COC.'

EPA Method 1613
PCDD/F



FAL ID: 6278-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: NA
Amount: 2.00 g

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

Acquired: 08-12-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.512		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.715		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.912		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.976		-	0.0586	Total TCDD	ND	0.512	
1,2,3,7,8,9-HxCDD	ND	0.974		-	0.0529	Total PeCDD	ND	0.715	
1,2,3,4,6,7,8-HpCDD	ND	1.30		-	0.0954	Total HxCDD	ND	0.976	
OCDD	ND	4.98		-	0.154	Total HpCDD	ND	1.30	
2,3,7,8-TCDF	ND	0.250		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.581		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.563		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.510		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.527		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.551		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.664		-	0.0387	Total TCDF	ND	0.250	
1,2,3,4,6,7,8-HpCDF	ND	0.705		-	0.0418	Total PeCDF	ND	0.581	
1,2,3,4,7,8,9-HpCDF	ND	0.739		-	0.0429	Total HxCDF	ND	0.664	
OCDF	ND	1.36		-	0.105	Total HpCDF	ND	0.739	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	86.1	25.0 - 164	
13C-1,2,3,7,8-PeCDD	92.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	83.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	101	23.0 - 140	
13C-OCDD	82.2	17.0 - 157	
13C-2,3,7,8-TCDF	87.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	82.6	24.0 - 185	
13C-2,3,4,7,8-PeCDF	83.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	122	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	115	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	116	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	123	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	107	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	128	26.0 - 138	
13C-OCDF	101	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	91.8	35.0 - 197
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: DN
Date: 8/12/10

Reviewed By: k
Date: 8/12/10

EPA Method 1613
PCDD/F



FAL ID: 6278-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: NA
Amount: 2.00 g

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: ng/ml

Acquired: 08-12-2010
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.2	6.70 - 15.8	
1,2,3,7,8-PeCDD	50.4	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	55.6	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	57.2	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	56.4	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	54.9	35.0 - 70.0	
OCDD	116	78.0 - 144	
2,3,7,8-TCDF	10.3	7.50 - 15.8	
1,2,3,7,8-PeCDF	52.6	40.0 - 67.0	
2,3,4,7,8-PeCDF	51.5	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	47.0	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	48.6	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	48.0	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	48.8	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	49.8	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	50.3	39.0 - 69.0	
OCDF	93.3	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.1	20.0 - 175	
13C-1,2,3,7,8-PeCDD	99.4	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	95.9	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	86.5	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	106	26.0 - 166	
13C-OCDD	84.8	13.0 - 198	
13C-2,3,7,8-TCDF	94.8	22.0 - 152	
13C-1,2,3,7,8-PeCDF	91.5	21.0 - 192	
13C-2,3,4,7,8-PeCDF	93.6	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	127	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	114	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	115	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	130	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	109	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	133	20.0 - 186	
13C-OCDF	105	13.0 - 198	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	96.6	31.0 - 191	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 8/12/10

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

EPA Method 1613
PCDD/F



FAL ID: 6278-001-SA
Client ID: PSB22-0-0.5-072910
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: 08-04-2010
Amount: 2.00 g
% Solids: 95.72

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

Acquired: 08-12-2010
2005 WHO TEQ: 0.302


Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.630		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.929		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.947		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.968		-	0.0586	Total TCDD	ND	0.630	
1,2,3,7,8,9-HxCDD	ND	0.988		-	0.0529	Total PeCDD	ND	0.929	
1,2,3,4,6,7,8-HpCDD	19.3	-		0.193	0.0954	Total HxCDD	7.05	-	J
OCDD	167	-		0.0501	0.154	Total HpCDD	39.2	-	
2,3,7,8-TCDF	ND	0.316		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.660		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.653		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.616		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.653		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.666		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.742		-	0.0387	Total TCDF	ND	0.703	
1,2,3,4,6,7,8-HpCDF	5.52	-	J	0.0552	0.0418	Total PeCDF	1.92	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.758		-	0.0429	Total HxCDF	5.45	-	J
OCDF	13.3	-	J	0.00399	0.105	Total HpCDF	13.5	-	


Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.9	25.0 - 164	
13C-1,2,3,7,8-PeCDD	106	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	86.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	103	23.0 - 140	
13C-OCDD	86.4	17.0 - 157	
13C-2,3,7,8-TCDF	97.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	94.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	94.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	121	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	110	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	115	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	125	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	106	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	127	26.0 - 138	
13C-OCDF	102	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 101 35.0 - 197

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

Analyst: 
Date: 8/13/10

Reviewed By: 
Date: 8/13/10

EPA Method 1613
PCDD/F



FAL ID: 6278-002-SA
Client ID: PSB22-1.5-2-072910
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: 08-04-2010
Amount: 2.06 g
% Solids: 92.31

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

Acquired: 08-11-2010
2005 WHO TEQ: 0.291

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	ND	0.497		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.554		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.769		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.905		-	0.0586	Total TCDD	ND	0.790	
1,2,3,7,8,9-HxCDD	ND	0.862		-	0.0529	Total PeCDD	ND	1.07	
1,2,3,4,6,7,8-HpCDD	19.2	-		0.192	0.0954	Total HxCDD	7.60	-	J
OCDD	151	-		0.0453	0.154	Total HpCDD	36.8	-	
2,3,7,8-TCDF	ND	0.352		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.540		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.545		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.574		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.559		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.616		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.665		-	0.0387	Total TCDF	2.38	-	J
1,2,3,4,6,7,8-HpCDF	5.02	-	J	0.0502	0.0418	Total PeCDF	4.83	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.529		-	0.0429	Total HxCDF	6.49	-	J
OCDF	12.1	-	J	0.00363	0.105	Total HpCDF	12.7	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	103	25.0 - 164	
13C-1,2,3,7,8-PeCDD	119	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	105	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	95.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	108	23.0 - 140	
13C-OCDD	88.6	17.0 - 157	
13C-2,3,7,8-TCDF	104	24.0 - 169	
13C-1,2,3,7,8-PeCDF	103	24.0 - 185	
13C-2,3,4,7,8-PeCDF	106	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	121	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	112	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	112	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	127	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	104	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	125	26.0 - 138	
13C-OCDF	98.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 109 35.0 - 197

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

Analyst: [Signature]
Date: 8/12/10

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

EPA Method 1613
PCDD/F



FAL ID: 6278-003-SA
Client ID: PSB23-0-0.5-072910
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: 08-04-2010
Amount: 2.08 g
% Solids: 92.71

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

Acquired: 08-12-2010
2005 WHO TEQ: 6.37

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	1.73	-	J	1.73	0.0262				
1,2,3,7,8-PeCDD	ND	1.27		-	0.0442				
1,2,3,4,7,8-HxCDD	1.91	-	J	0.191	0.0486				
1,2,3,6,7,8-HxCDD	7.43	-	J	0.743	0.0586	Total TCDD	12.1	-	
1,2,3,7,8,9-HxCDD	4.87	-	J	0.487	0.0529	Total PeCDD	11.5	-	J
1,2,3,4,6,7,8-HpCDD	170	-		1.70	0.0954	Total HxCDD	54.6	-	
OCDD	1400	-		0.420	0.154	Total HpCDD	298	-	
2,3,7,8-TCDF	1.54	-	J	0.154	0.0205				
1,2,3,7,8-PeCDF	ND	1.04		-	0.0298				
2,3,4,7,8-PeCDF	ND	1.07		-	0.0313				
1,2,3,4,7,8-HxCDF	2.40	-	J	0.240	0.0308				
1,2,3,6,7,8-HxCDF	1.50	-	J	0.150	0.0317				
2,3,4,6,7,8-HxCDF	2.16	-	J	0.216	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.716		-	0.0387	Total TCDF	25.4	-	
1,2,3,4,6,7,8-HpCDF	29.0	-		0.290	0.0418	Total PeCDF	17.0	-	
1,2,3,4,7,8,9-HpCDF	1.88	-	J	0.0188	0.0429	Total HxCDF	32.1	-	
OCDF	86.5	-		0.0260	0.105	Total HpCDF	78.7	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	103	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	87.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	79.7	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	101	23.0 - 140	
13C-OCDD	91.0	17.0 - 157	
13C-2,3,7,8-TCDF	99.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	91.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	93.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	123	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	110	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	112	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	126	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	105	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	131	26.0 - 138	
13C-OCDF	104	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 98.3 35.0 - 197

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

Analyst: [Signature]
Date: 8/13/10

Reviewed By: [Signature]
Date: 8/13/10

EPA Method 1613
PCDD/F



FAL ID: 6278-004-SA
Client ID: PSB23-1.5-2-072910
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: 08-04-2010
Amount: 2.07 g
% Solids: 93.16

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

Acquired: 08-11-2010
2005 WHO TEQ: 4.29

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	1.77	-	J	1.77	0.0262				
1,2,3,7,8-PeCDD	ND	0.990		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.890		-	0.0486				
1,2,3,6,7,8-HxCDD	4.20	-	J	0.420	0.0586	Total TCDD	10.5	-	
1,2,3,7,8,9-HxCDD	2.18	-	J	0.218	0.0529	Total PeCDD	11.2	-	J
1,2,3,4,6,7,8-HpCDD	90.6	-		0.906	0.0954	Total HxCDD	33.3	-	
OCDD	730	-		0.219	0.154	Total HpCDD	167	-	
2,3,7,8-TCDF	0.975	-	J	0.0975	0.0205				
1,2,3,7,8-PeCDF	ND	0.963		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.940		-	0.0313				
1,2,3,4,7,8-HxCDF	1.46	-	J	0.146	0.0308				
1,2,3,6,7,8-HxCDF	1.10	-	J	0.110	0.0317				
2,3,4,6,7,8-HxCDF	1.65	-	J	0.165	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.495		-	0.0387	Total TCDF	16.8	-	
1,2,3,4,6,7,8-HpCDF	20.6	-		0.206	0.0418	Total PeCDF	13.4	-	
1,2,3,4,7,8,9-HpCDF	1.05	-	J	0.0105	0.0429	Total HxCDF	21.7	-	
OCDF	64.5	-		0.0194	0.105	Total HpCDF	59.3	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.3	25.0 - 164	
13C-1,2,3,7,8-PeCDD	106	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	95.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	87.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	100	23.0 - 140	
13C-OCDD	79.2	17.0 - 157	
13C-2,3,7,8-TCDF	98.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	89.5	24.0 - 185	
13C-2,3,4,7,8-PeCDF	93.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	114	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	106	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	108	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	117	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	94.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	114	26.0 - 138	
13C-OCDF	89.7	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 103 35.0 - 197

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

Analyst: [Signature]
Date: 8/12/10

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

EPA Method 1613
PCDD/F



FAL ID: 6278-005-SA
Client ID: PSB24-0-0.5-072910
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: 08-04-2010
Amount: 2.08 g
% Solids: 95.11

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

Acquired: 08-12-2010
2005 WHO TEQ: 16.5

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	2.61	-		2.61	0.0262				
1,2,3,7,8-PeCDD	2.28	-	J	2.28	0.0442				
1,2,3,4,7,8-HxCDD	3.15	-	J	0.315	0.0486				
1,2,3,6,7,8-HxCDD	15.3	-		1.53	0.0586	Total TCDD	10.1		-
1,2,3,7,8,9-HxCDD	8.04	-	J	0.804	0.0529	Total PeCDD	22.2		-
1,2,3,4,6,7,8-HpCDD	486	-		4.86	0.0954	Total HxCDD	109		-
OCDD	4530	-		1.36	0.154	Total HpCDD	900		-
2,3,7,8-TCDF	1.25	-	J	0.125	0.0205				
1,2,3,7,8-PeCDF	ND	0.536		-	0.0298				
2,3,4,7,8-PeCDF	1.51	-	J	0.453	0.0313				
1,2,3,4,7,8-HxCDF	4.00	-	J	0.400	0.0308				
1,2,3,6,7,8-HxCDF	2.14	-	J	0.214	0.0317				
2,3,4,6,7,8-HxCDF	2.84	-	J	0.284	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.715		-	0.0387	Total TCDF	22.2		-
1,2,3,4,6,7,8-HpCDF	111	-		1.11	0.0418	Total PeCDF	27.1		-
1,2,3,4,7,8,9-HpCDF	4.44	-	J	0.0444	0.0429	Total HxCDF	82.9		-
OCDF	452	-		0.136	0.105	Total HpCDF	363		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	25.0 - 164	
13C-1,2,3,7,8-PeCDD	116	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	89.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	107	23.0 - 140	
13C-OCDD	106	17.0 - 157	
13C-2,3,7,8-TCDF	101	24.0 - 169	
13C-1,2,3,7,8-PeCDF	103	24.0 - 185	
13C-2,3,4,7,8-PeCDF	105	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	127	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	112	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	117	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	127	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	112	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	129	26.0 - 138	
13C-OCDF	116	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 101 35.0 - 197

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

Analyst: [Signature]
Date: 8/13/10

Reviewed By: [Signature]
Date: 8/13/10

EPA Method 1613
PCDD/F



FAL ID: 6278-006-SA
Client ID: PSB24-1.5-2-072910
Matrix: Soil
Batch No: X2077

Date Extracted: 08-10-2010
Date Received: 08-04-2010
Amount: 2.03 g
% Solids: 94.11

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

Acquired: 08-11-2010
2005 WHO TEQ: 0.0917

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.536		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.806		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	1.02		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	1.12		-	0.0586	Total TCDD	ND	0.536	
1,2,3,7,8,9-HxCDD	ND	1.10		-	0.0529	Total PeCDD	ND	0.806	
1,2,3,4,6,7,8-HpCDD	8.22	-	J	0.0822	0.0954	Total HxCDD	ND	1.12	
OCDD	31.7	-		0.00951	0.154	Total HpCDD	13.6	-	
2,3,7,8-TCDF	ND	0.428		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.432		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.424		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.597		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.576		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.607		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.736		-	0.0387	Total TCDF	ND	0.428	
1,2,3,4,6,7,8-HpCDF	ND	0.779		-	0.0418	Total PeCDF	ND	0.432	
1,2,3,4,7,8,9-HpCDF	ND	0.825		-	0.0429	Total HxCDF	ND	0.736	
OCDF	ND	1.64		-	0.105	Total HpCDF	ND	0.825	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.2	25.0 - 164	
13C-1,2,3,7,8-PeCDD	96.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	82.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	94.7	23.0 - 140	
13C-OCDD	77.0	17.0 - 157	
13C-2,3,7,8-TCDF	84.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	81.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	83.9	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	108	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	102	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	103	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	110	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	92.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	105	26.0 - 138	
13C-OCDF	86.5	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 101 35.0 - 197

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

Analyst: [Signature]
Date: 8/12/10

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

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 08/03/10



ARI Project: RG58

OC

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

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

Analytical Protocol: PSDDA
Special Instructions:

Requested Turn Around: 08/13/10
Email Results (Y/N): Yes

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

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-18236-RG58A	PSB22-0-0.5-072910	07/29/10 09:05 -	Soil	1	Dioxin/Furans 1613(Sub) <i>PSB22-0.0-0.5-072910</i>
Special Instructions: None					
10-18237-RG58B	PSB22-1.5-2-072910	07/29/10 09:10 ✓	Soil	1	Dioxin/Furans 1613(Sub) <i>PSB22-1.5-2.0-072910</i>
Special Instructions: None					
10-18242-RG58G	PSB23-0-0.5-072910	07/29/10 12:10 -	Soil	1	Dioxin/Furans 1613(Sub) <i>PSB23-0.0-0.5-072910</i>
Special Instructions: None					
10-18243-RG58H	PSB23-1.5-2-072910	07/29/10 12:05 -	Soil	1	Dioxin/Furans 1613(Sub) <i>PSB23-1.5-2.0-072910</i>
Special Instructions: None					
10-18248-RG58M	PSB24-0-0.5-072910	07/29/10 10:33 -	Soil	1	Dioxin/Furans 1613(Sub) <i>PSB24-0.0-0.5-072910</i>
Special Instructions: None					
10-18249-RG58N	PSB24-1.5-2-072910	07/29/10 10:58 -	Soil	1	Dioxin/Furans 1613(Sub) <i>PSB24-1.5-2.0-072910</i>
Special Instructions: None					

LU & 9DD

12-83269501/5/20 7698

Carrier	<i>UPS</i>	Airbill	<i>12-83269501/5008 9501</i>	Date	<i>8/3/10</i>
Relinquished by	<i>Mikka Matumba</i>	Company	<i>ARI</i>	Date	<i>8/3/10</i>
Received by	<i>Tom Christie</i>	Company	<i>Frontier Analytical</i>	Date	<i>8/4/10</i>
				Time	<i>10:40AM</i>

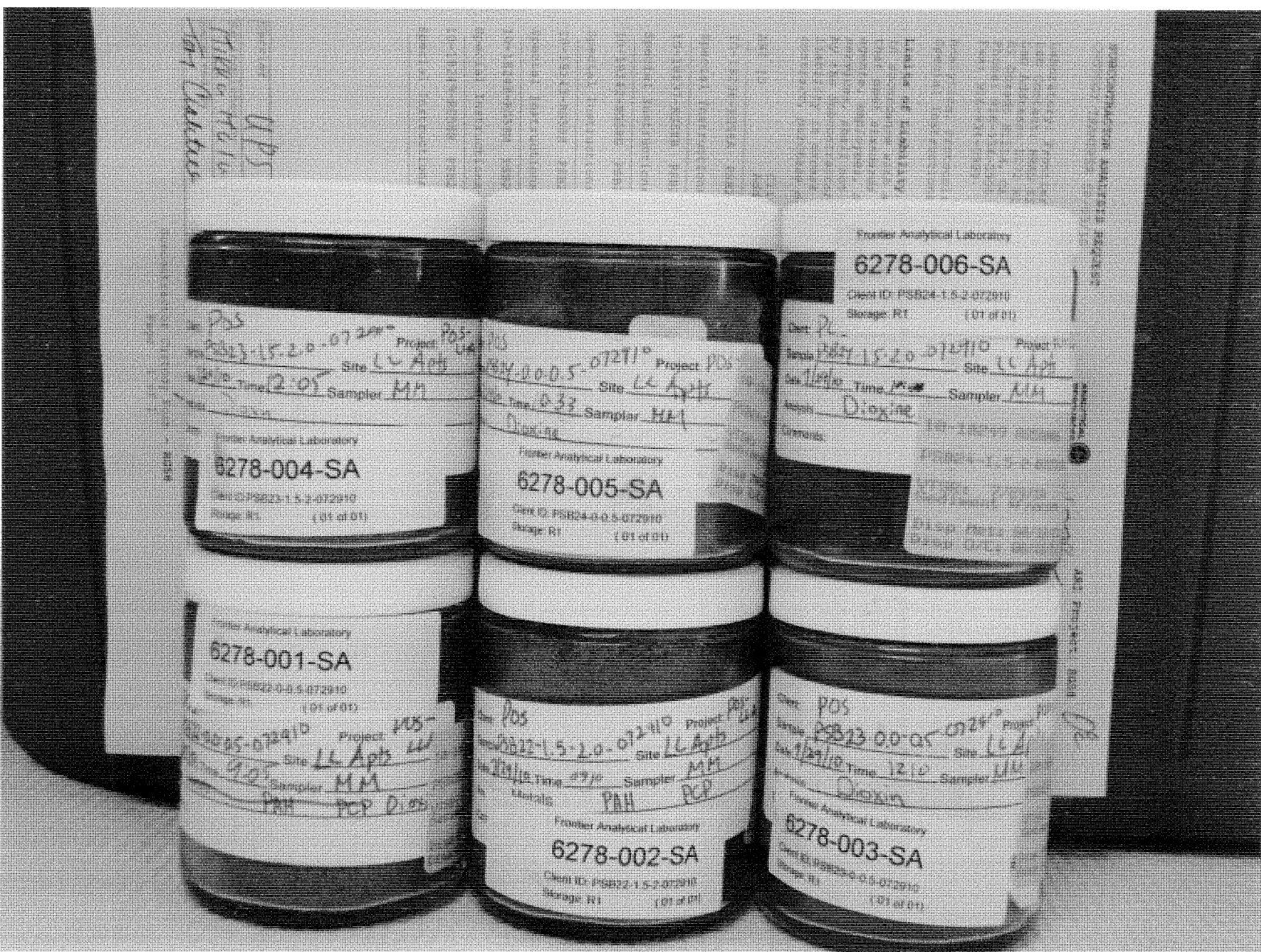
Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6278**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	RG58
Date Received:	08/04/2010
Time Received:	10:40 am
Received By:	TC
Logged In By:	KZ
# of Samples Received:	6
Duplicates:	0
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950150089501
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	07/29/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	
L4 DATA PACKAGE & EDD	



Frontier Analytical Laboratory
PROJECT REQUEST SHEET

Project #: 6278 Sample #: 1 - 6 Client Manager: BS
Client: Analytical Resources Inc. Sue Dunning Hold Time: 07/29/2011
Matrix: Soil Extraction Batch: 2077 Due Date: 08/26/2010
Method: EPA 1613 D/F Storage: R1
SOP: SOPs: EP2A Rev.7 IP2A Rev.8

COMMENTS/INSTRUCTIONS:

Results: 6278

Instrument:

DB5

DB225

DB1


Other

FAL3

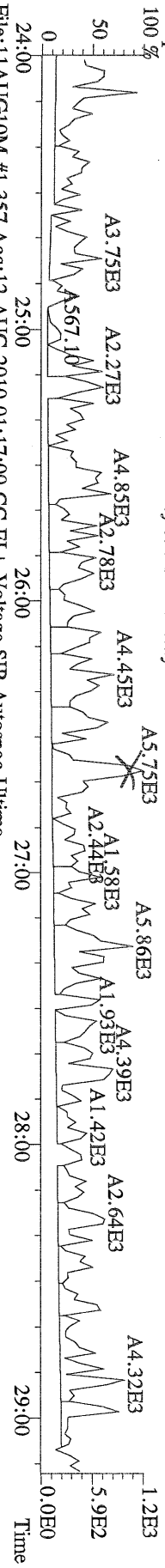
Extract/s located in box: "YIELD"

Standards: QC 6277 / STD 6277

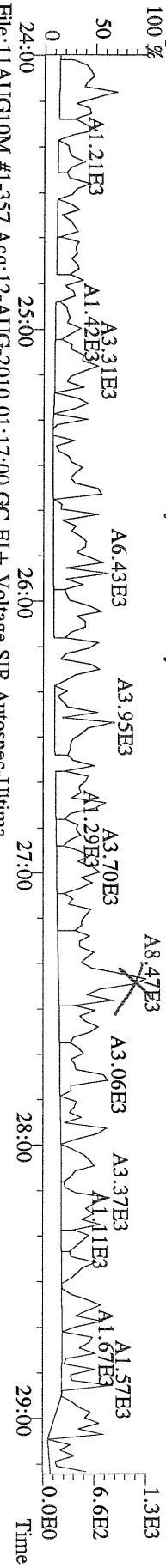
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	205	262	0.512	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	287	228	0.715	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	314	248	0.912	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	*		2.50	314	248	0.976	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	314	248	0.974	0
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.35	*		2.50	397	395	1.30	0
OCDD	*	* n	NotFnd	1.25	*		2.50	652	594	4.98	0
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	305	328	0.250	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	318	307	0.581	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	318	307	0.563	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	275	299	0.510	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	275	299	0.527	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	275	299	0.551	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	275	299	0.664	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.38	*		2.50	318	290	0.705	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	318	290	0.739	0
OCDF	*	* n	NotFnd	0.74	*		2.50	212	242	1.36	0
										Rec	
13C-2,3,7,8-TCDD	9.39e+06	0.85	y	27:22	0.93	861				86.1	
13C-1,2,3,7,8-PeCDD	8.83e+06	1.77	y	33:11	0.81	929				92.9	
13C-1,2,3,4,7,8-HxCDD	5.99e+06	1.23	y	38:33	0.95	880				88.0	
13C-1,2,3,6,7,8-HxCDD	6.01e+06	1.22	y	38:44	1.00	838				83.8	
13C-1,2,3,4,6,7,8-HpCDD	6.67e+06	0.99	y	44:09	0.92	1010				101	
13C-OCDD	7.49e+06	0.93	y	49:42	0.63	1640				82.2	
13C-2,3,7,8-TCDF	1.63e+07	0.86	y	26:38	0.87	870				87.0	
13C-1,2,3,7,8-PeCDF	1.44e+07	1.65	y	31:27	0.81	826				82.6	
13C-2,3,4,7,8-PeCDF	1.36e+07	1.67	y	32:47	0.75	838				83.8	
13C-1,2,3,4,7,8-HxCDF	1.53e+07	0.52	y	37:10	1.74	1220				122	
13C-1,2,3,6,7,8-HxCDF	1.79e+07	0.53	y	37:22	2.17	1150				115	
13C-2,3,4,6,7,8-HxCDF	1.51e+07	0.52	y	38:18	1.82	1160				116	
13C-1,2,3,7,8,9-HxCDF	1.31e+07	0.52	y	39:44	1.49	1230				123	
13C-1,2,3,4,6,7,8-HpCDF	8.46e+06	0.43	y	42:15	1.10	1070				107	
13C-1,2,3,4,7,8,9-HpCDF	7.50e+06	0.44	y	45:05	0.81	1280				128	
13C-OCDF	1.73e+07	0.98	y	50:05	1.19	2020				101	
37Cl-2,3,7,8-TCDD	4.02e+06			27:23	0.93	367				91.8	
13C-1,2,3,4-TCDD	1.18e+07	0.85	y	26:48	-	17.3					
13C-1,2,3,4-TCDF	2.16e+07	0.87	y	25:33	-	20.2					
13C-1,2,3,7,8,9-HxCDD	7.20e+06	1.20	y	39:10	-	16.7					
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	205	262	0.512	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	287	228	0.715	0
Total Hexa-Dioxins	*		NotFnd	1.27	*		2.50	314	248	0.976	0
Total Hepta-Dioxins	*		NotFnd	1.35	*		2.50	397	395	1.30	0
Total Tetra-Furans	*		NotFnd	1.62	*		2.50	305	328	0.250	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.93	*		2.50	318	307	0.581	PeCDF 0
Total Penta-Furans	*		NotFnd	0.93	*		2.50	318	307	0.581	0.00 0
Total Hexa-Furans	*		NotFnd	0.90	*		2.50	275	299	0.664	0
Total Hepta-Furans	*		NotFnd	1.48	*		2.50	318	290	0.739	0

Analyst:  Date: 8/12/10

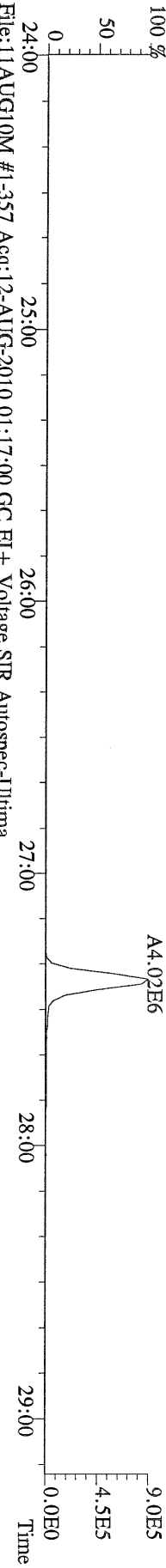
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 319.8965 S:1.8 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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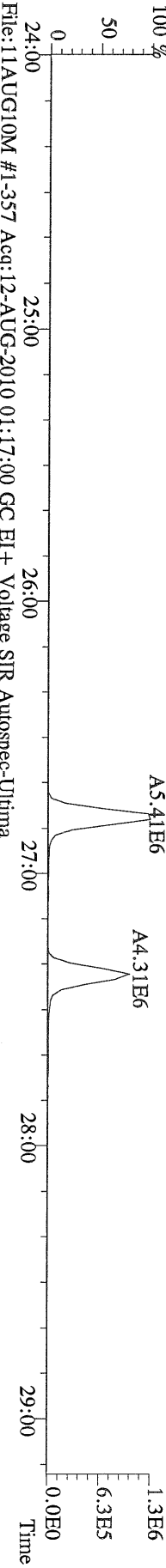
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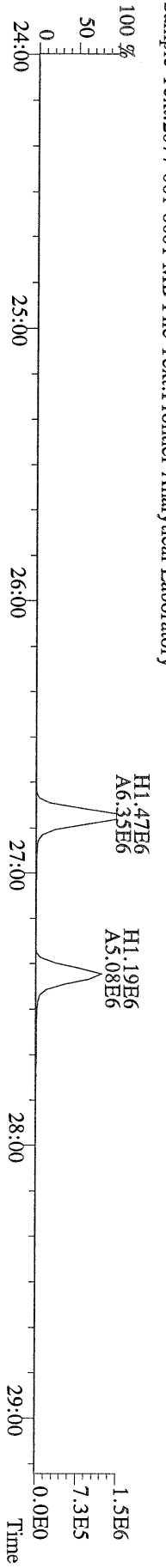
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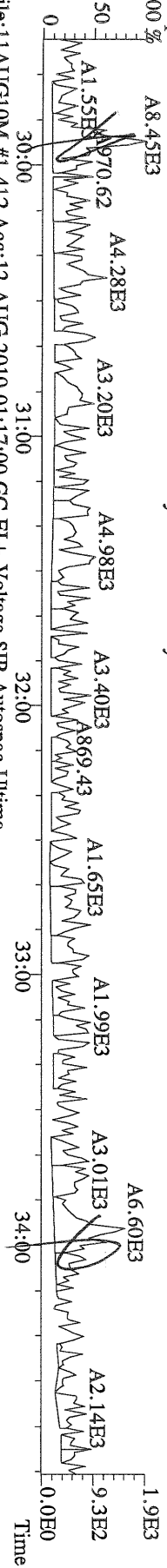
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 333.9339 S:1.8 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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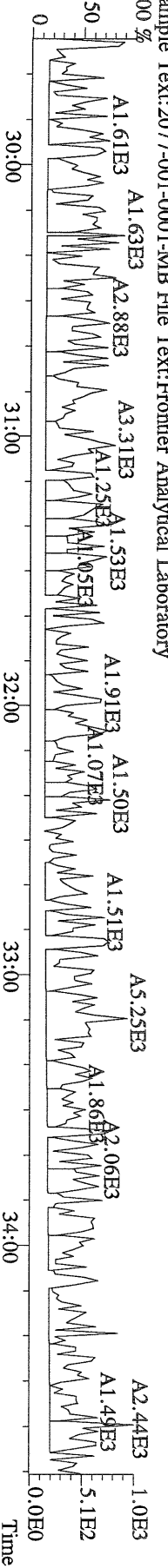
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 333.9339 S:1.8 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



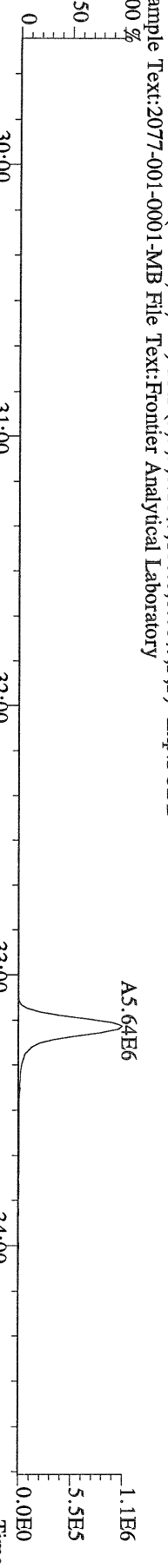
File:11AUG10M #1-412 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



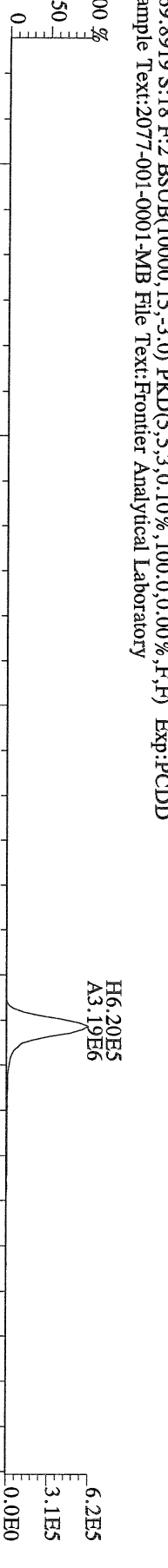
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 357.8517 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



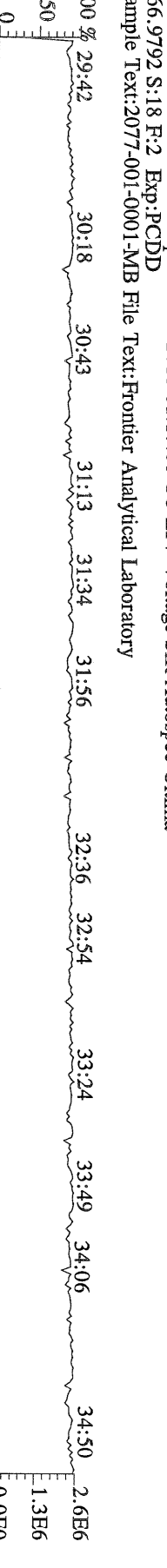
File:11AUG10M #1-412 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



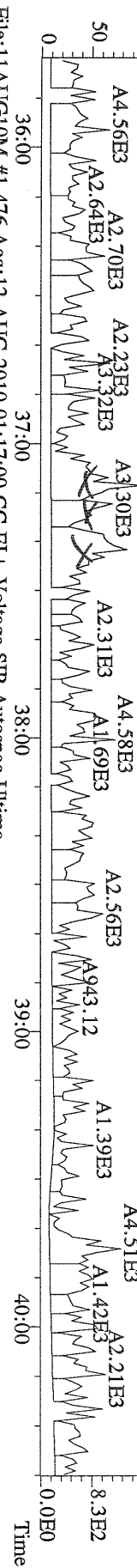
File:11AUG10M #1-412 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 369.8919 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



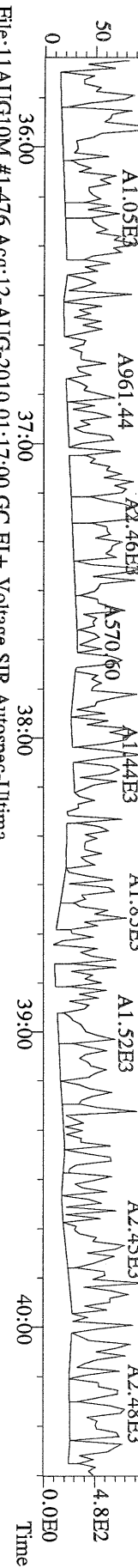
File:11AUG10M #1-412 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:18 F:2 Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



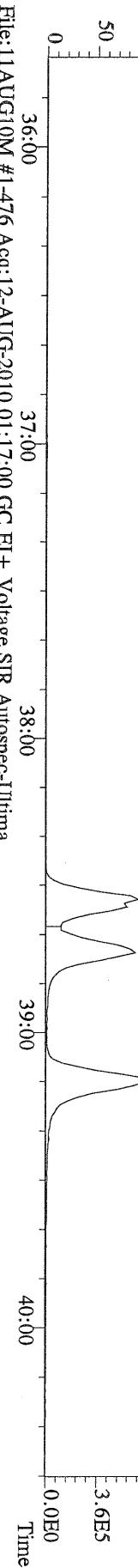
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



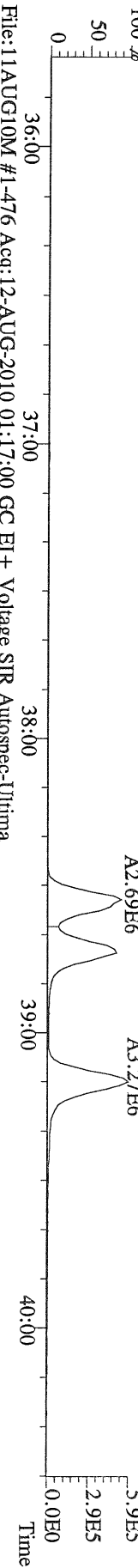
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



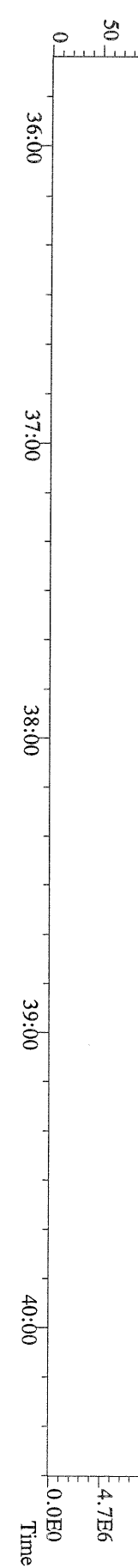
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



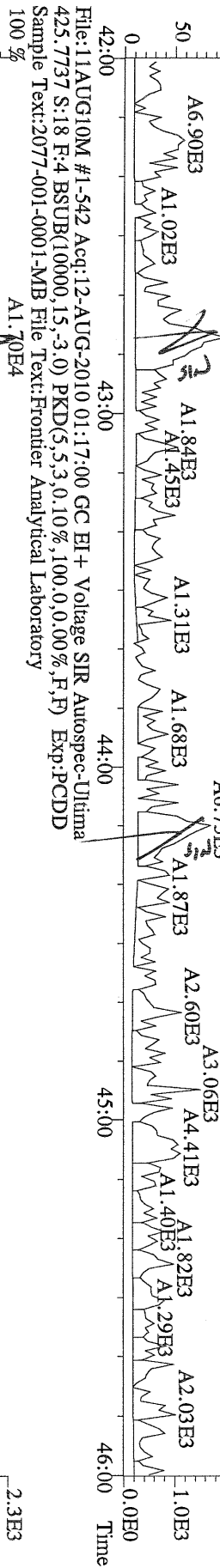
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



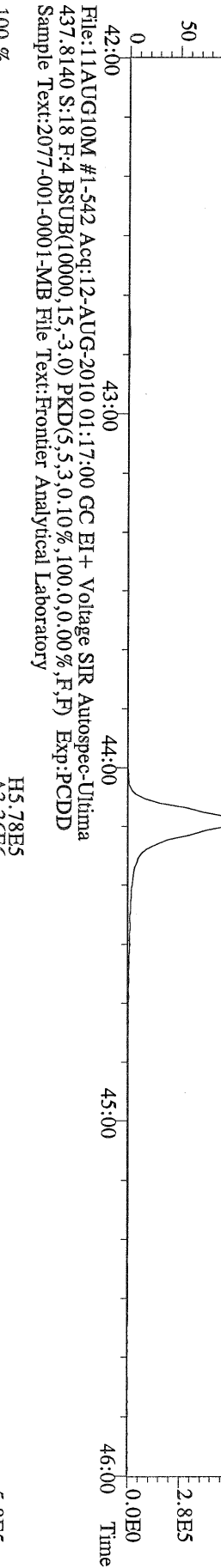
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:18 F:3 Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory
 100 %



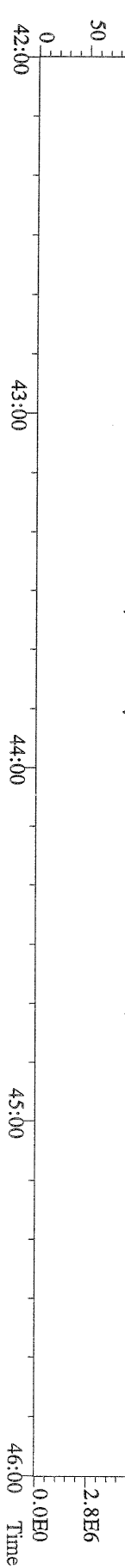
File:11AUG10M #1-542 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Utima
 423.7767 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



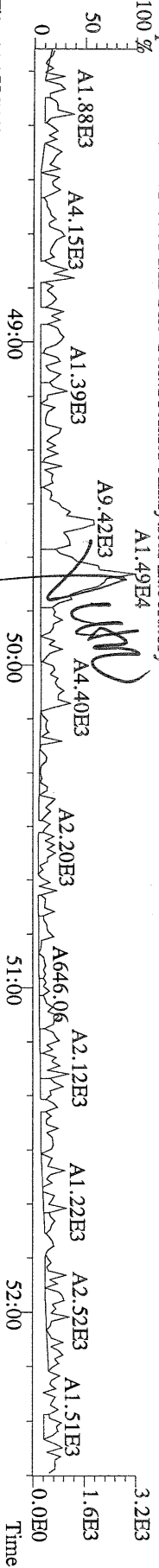
File:11AUG10M #1-542 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Utima
 437.8169 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



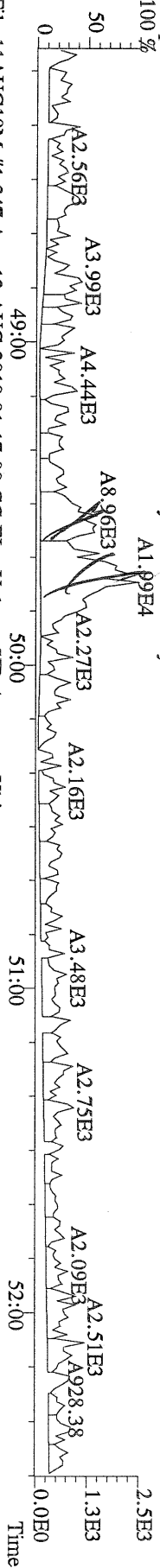
File:11AUG10M #1-542 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Utima
 430.9728 S:18 F:4 Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



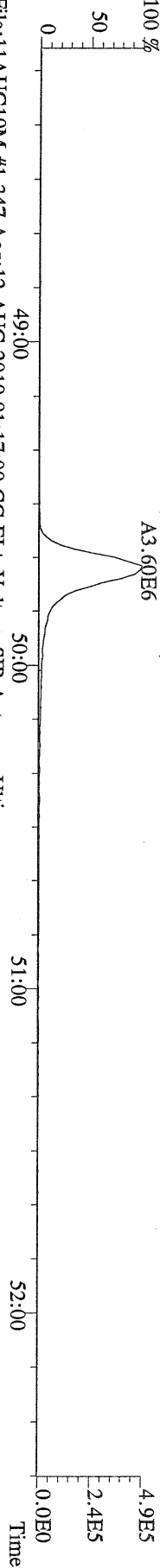
File:11AUG10M #1-347 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



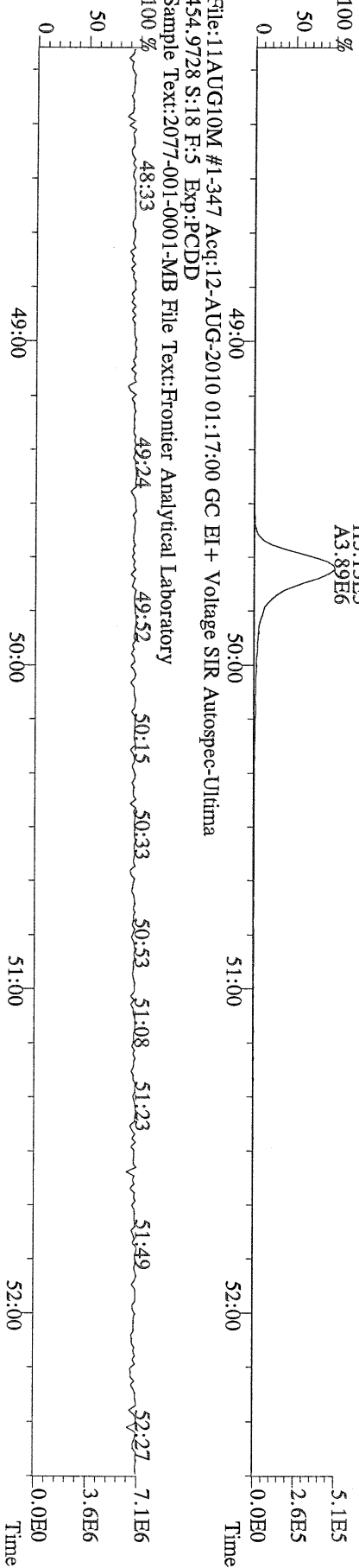
File:11AUG10M #1-347 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



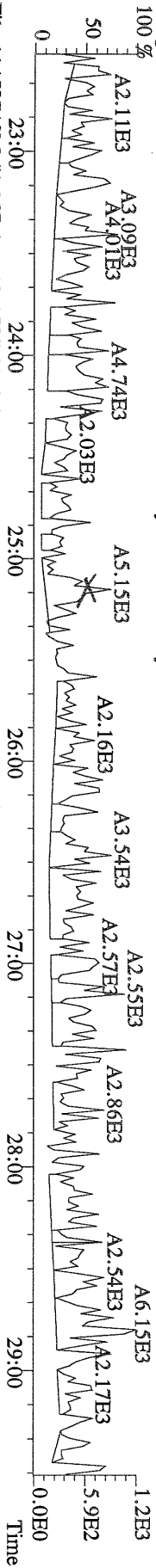
File:11AUG10M #1-347 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



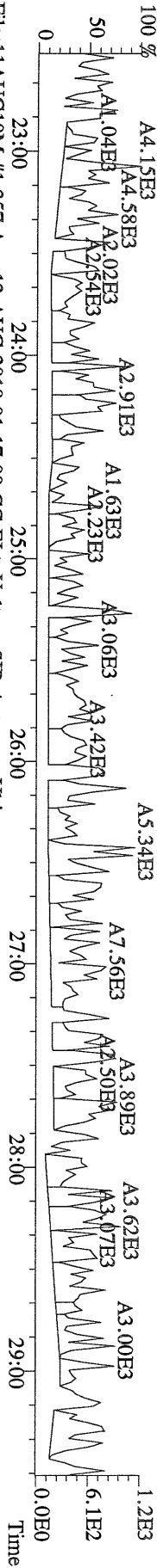
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 483.33 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



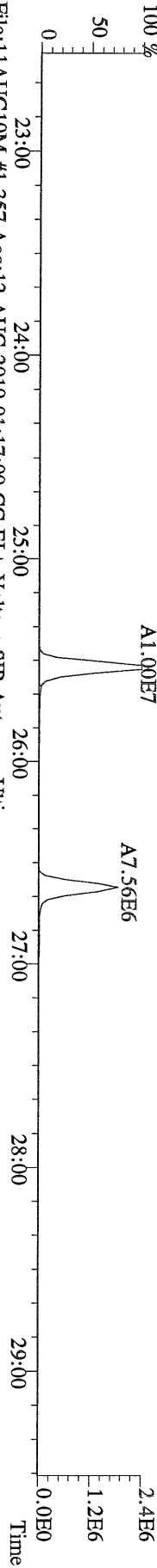
File:11AUG10M #1-357 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:18 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



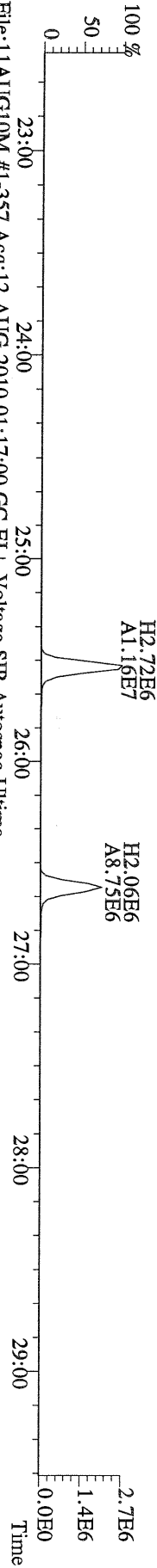
File:11AUG10M #1-357 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:18 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



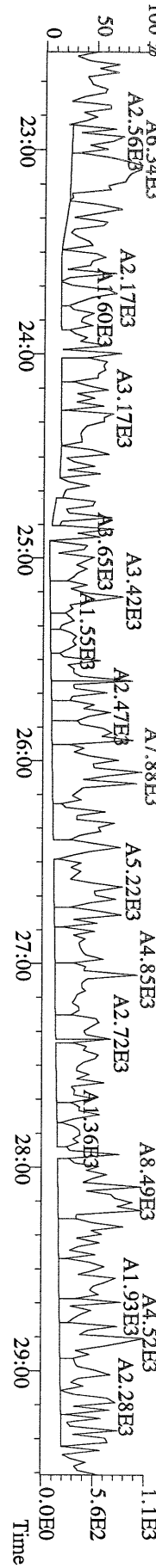
File:11AUG10M #1-357 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:18 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



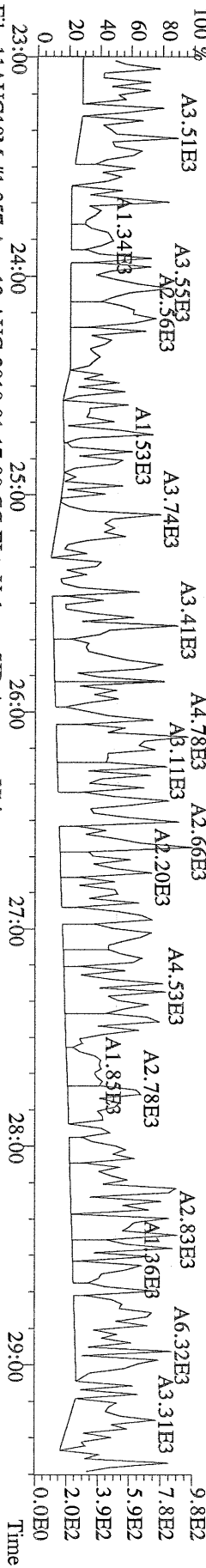
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317.9389 S:18 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



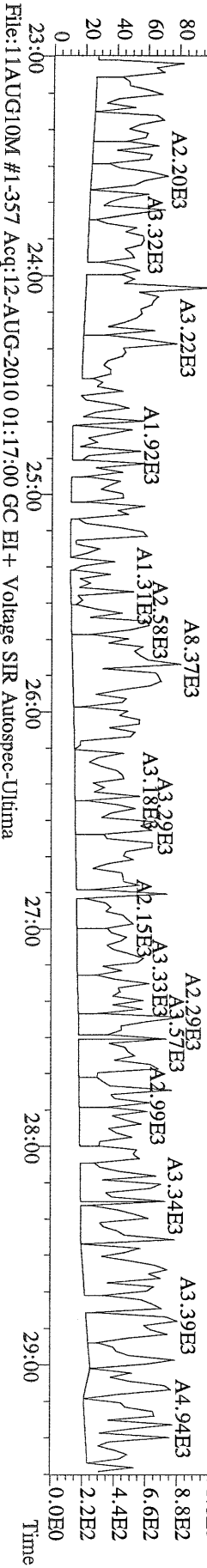
File:11AUG10M #1-357 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:18 BSUB(10000,15,-3.0) PKD(5.5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



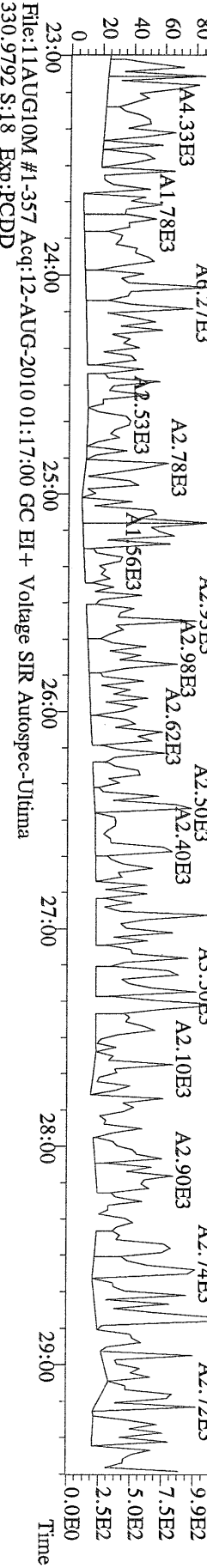
File:11AUG10M #1-357 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:18 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



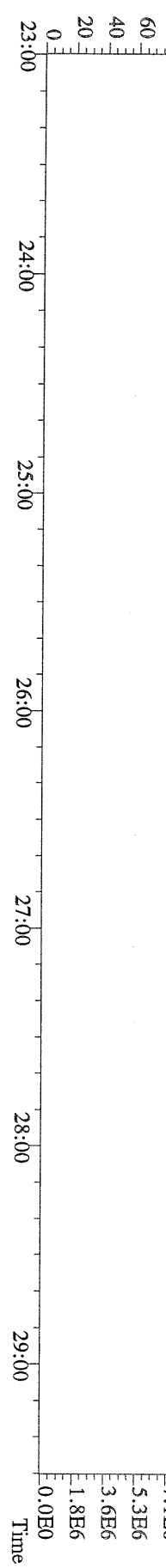
File:11AUG10M #1-357 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:18 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



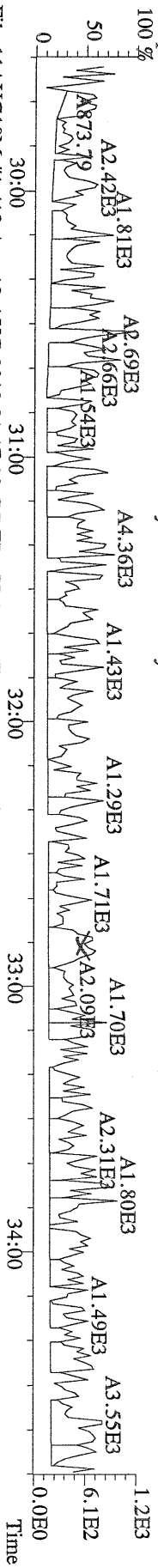
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 409.7974 S:18 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



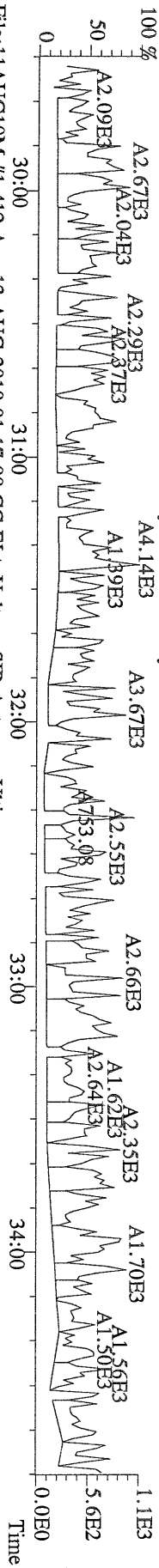
File:11AUG10M #1-357 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:18 Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



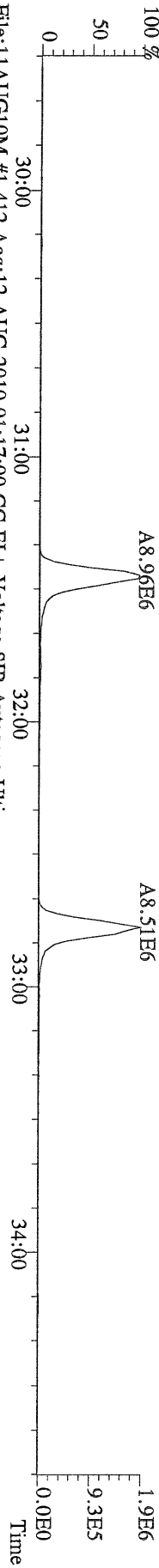
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 339.8597 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



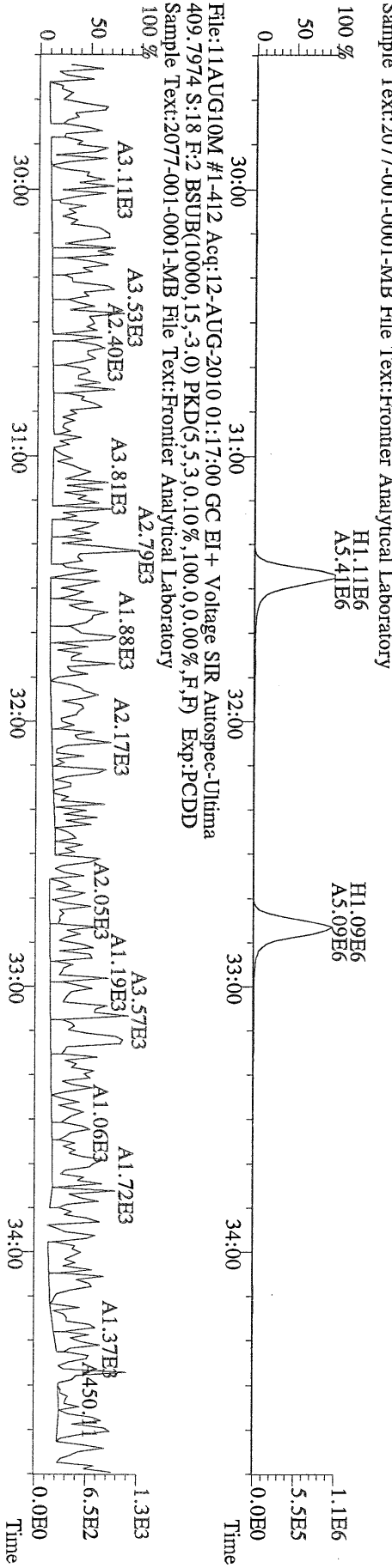
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 341.8568 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



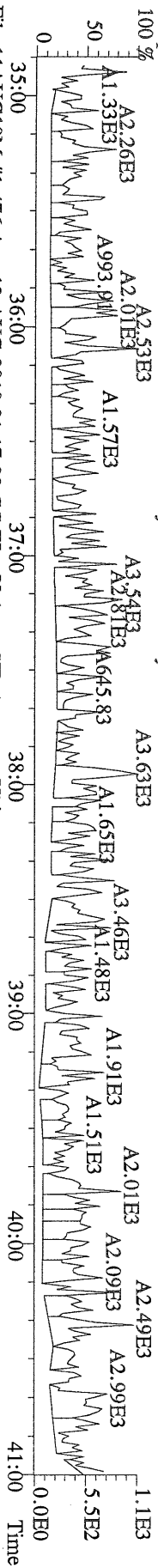
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 351.9000 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



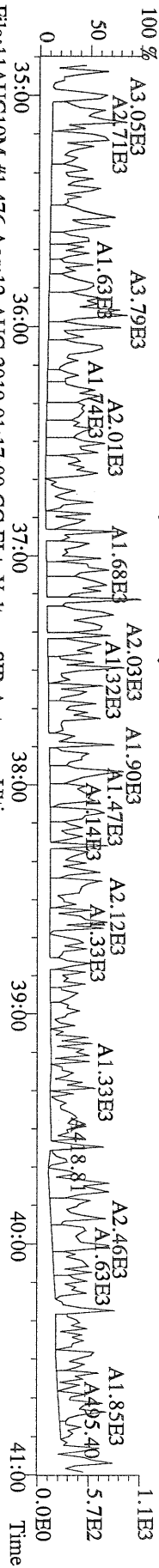
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 409.7974 S:18 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



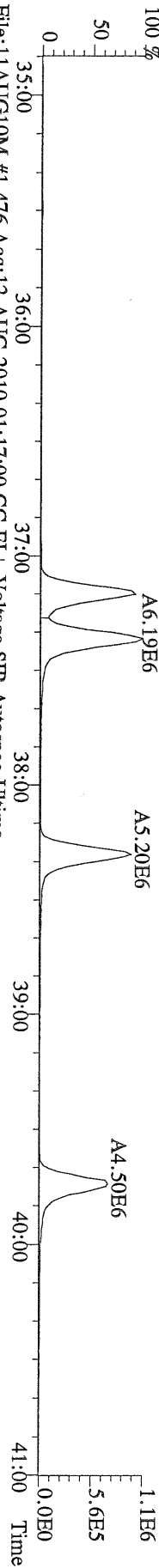
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



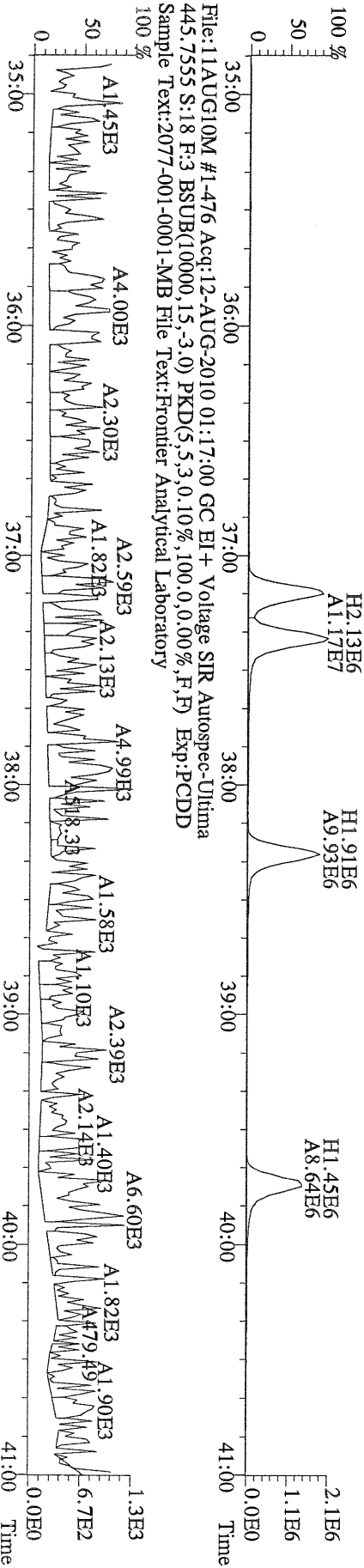
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



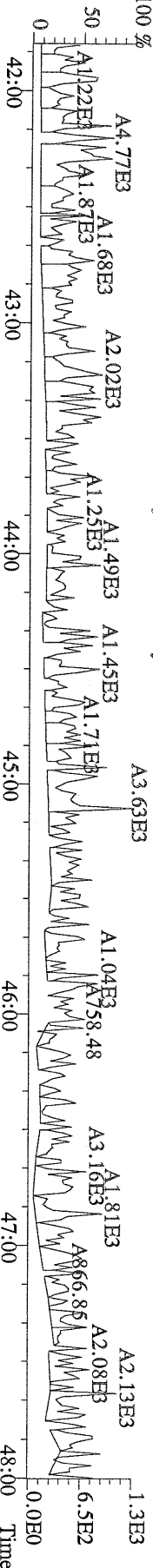
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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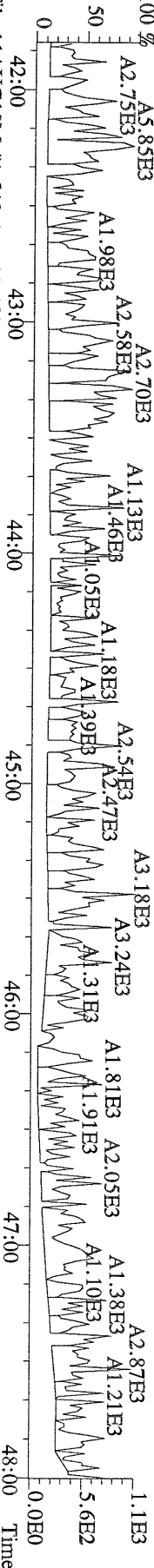
File:11AUG10M #1-476 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:18 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



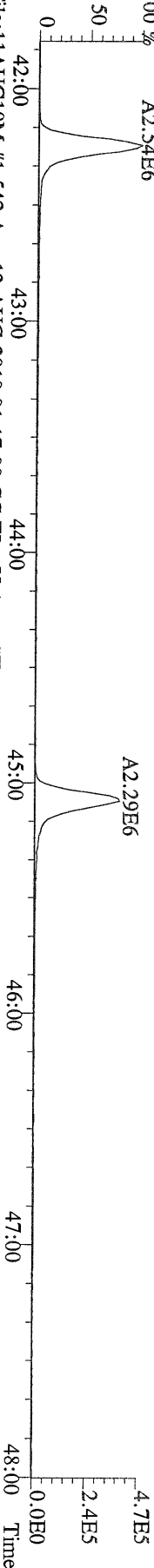
File:11AUG10M #1-542 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Utima
 407.7818 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



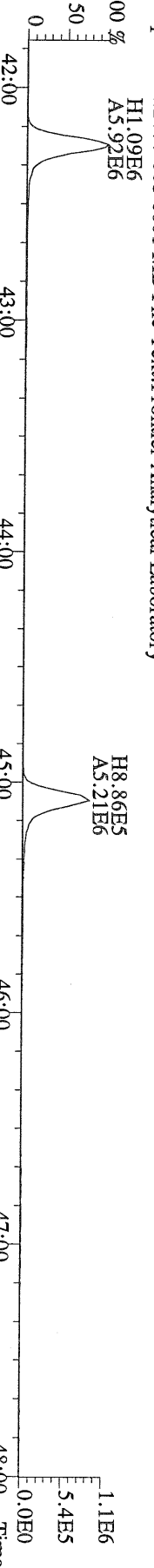
File:11AUG10M #1-542 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Utima
 409.7788 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



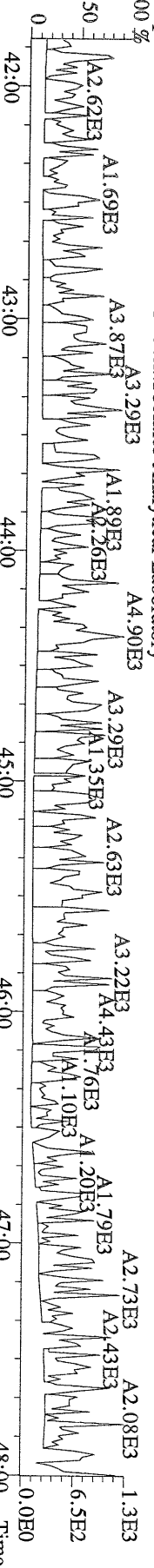
File:11AUG10M #1-542 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Utima
 417.8253 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



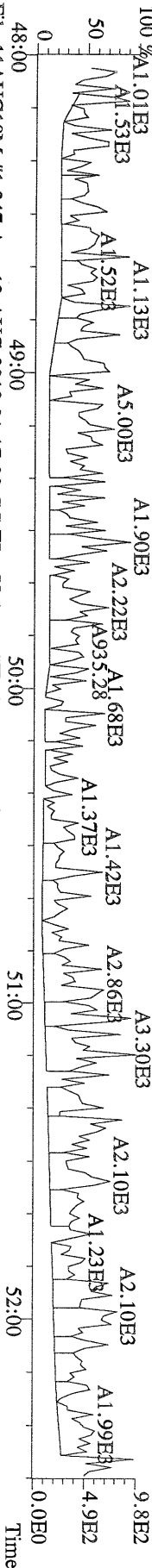
File:11AUG10M #1-542 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Utima
 419.8220 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



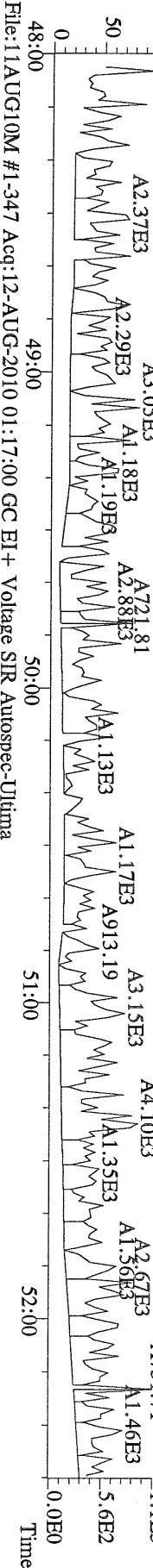
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 479.7165 S:18 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



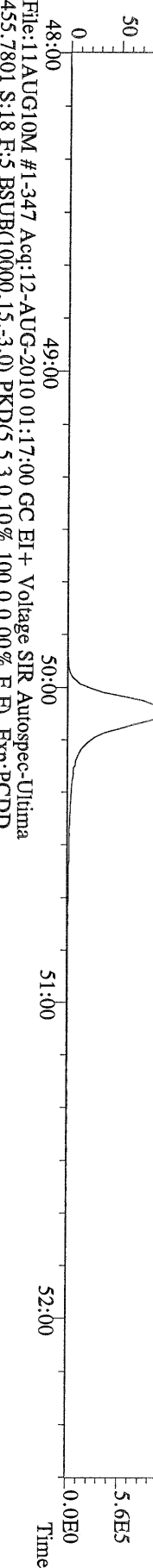
File:11AUG10M #1-347 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



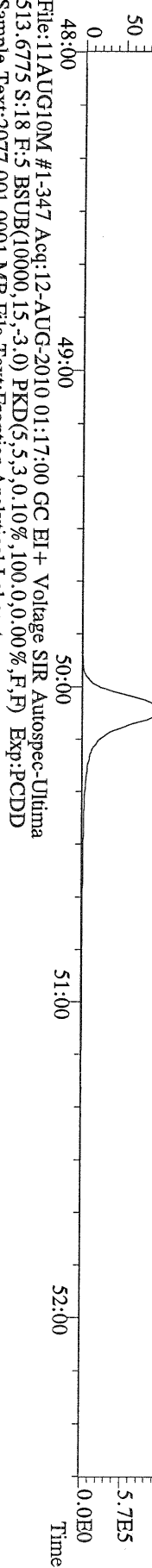
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443.7398 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



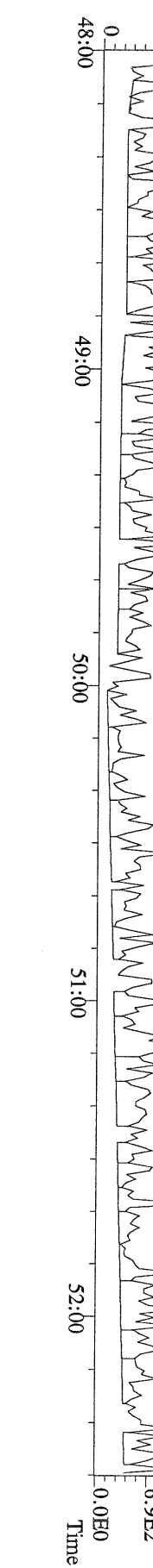
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453.7831 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:12-AUG-2010 01:17:00 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:18 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-MB File Text:Frontier Analytical Laboratory



USEPA - ITD

FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Soil OPR Data Filename: 11AUG10M Sam:17

Ext. Date: 8/10/10 Shift: Day Analysis Date: 12-AUG-10 00:21:41

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	10.2	6.70 - 15.8 ✓
1,2,3,7,8-PeCDD	50	50.4	35.0 - 71.0 ✓
1,2,3,4,7,8-HxCDD	50	55.6	35.0 - 82.0 ✓
1,2,3,6,7,8-HxCDD	50	57.2	38.0 - 67.0 ✓
1,2,3,7,8,9-HxCDD	50	56.4	32.0 - 81.0 ✓
1,2,3,4,6,7,8-HpCDD	50	54.9	35.0 - 70.0 ✓
OCDD	100	116	78.0 - 144 ✓
2,3,7,8-TCDF	10	10.3	7.50 - 15.8 ✓
1,2,3,7,8-PeCDF	50	52.6	40.0 - 67.0 ✓
2,3,4,7,8-PeCDF	50	51.5	34.0 - 80.0 ✓
1,2,3,4,7,8-HxCDF	50	47.0	36.0 - 67.0 ✓
1,2,3,6,7,8-HxCDF	50	48.6	42.0 - 65.0 ✓
2,3,4,6,7,8-HxCDF	50	48.0	35.0 - 78.0 ✓
1,2,3,7,8,9-HxCDF	50	48.8	39.0 - 65.0 ✓
1,2,3,4,6,7,8-HpCDF	50	49.8	41.0 - 61.0 ✓
1,2,3,4,7,8,9-HpCDF	50	50.3	39.0 - 69.0 ✓
OCDF	100	93.3	63.0 - 170 ✓

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

Analyst: 

Date: 8/12/10

USEPA - ITD

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Soil OPR Data Filename: 11AUG10M Sam:17

Ext. Date: 8/10/10 Shift: Day Analysis Date: 12-AUG-10 00:21:41

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	100	92.1	20.0 - 175 ✓
13C-1,2,3,7,8-PeCDD	100	99.4	21.0 - 227 ✓
13C-1,2,3,4,7,8-HxCDD	100	95.9	21.0 - 193 ✓
13C-1,2,3,6,7,8-HxCDD	100	86.5	25.0 - 163 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	106	26.0 - 166 ✓
13C-OCDD	200	170	26.0 - 397 ✓
13C-2,3,7,8-TCDF	100	94.8	22.0 - 152 ✓
13C-1,2,3,7,8-PeCDF	100	91.5	21.0 - 192 ✓
13C-2,3,4,7,8-PeCDF	100	93.6	13.0 - 328 ✓
13C-1,2,3,4,7,8-HxCDF	100	127	19.0 - 202 ✓
13C-1,2,3,6,7,8-HxCDF	100	114	21.0 - 159 ✓
13C-2,3,4,6,7,8-HxCDF	100	115	22.0 - 176 ✓
13C-1,2,3,7,8,9-HxCDF	100	130	17.0 - 205 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	109	21.0 - 158 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	133	20.0 - 186 ✓
13C-OCDF	200	210	26.0 - 397 ✓
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	38.7	12.4 - 76.4 ✓

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

Analyst: 

Date: 8/12/10

FAL ID: 2077-001-0001-OPR Filename: 11AUG10M Sam:17 Acquired: 12-AUG-10 00:21:41 ICal: PCDDFAL3-5-12-10
 Client ID: OPR ConCal: ST081110M2 EndCal: ST081110M3
 Results: 6277 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 103

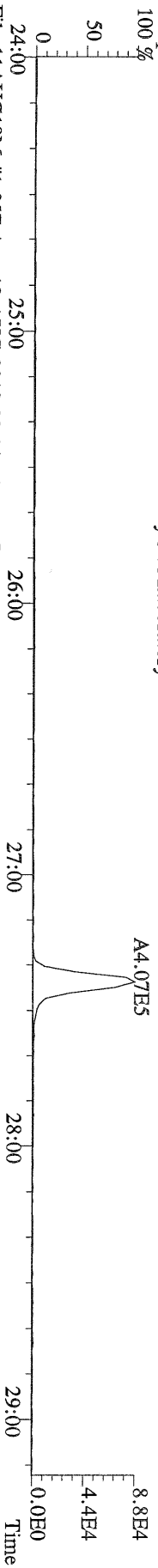
WHO 1998 Tox: 128 WHO 2005 Tox: 116

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	9.49e+05	0.75 y	27:24	1.04	10.2		2.50	-	*		
1,2,3,7,8-PeCDD	4.45e+06	1.55 y	33:13	1.05	50.4		2.50	-	*		
1,2,3,4,7,8-HxCDD	4.35e+06	1.39 y	38:34	1.30	55.6		2.50	-	*		
1,2,3,6,7,8-HxCDD	4.18e+06	1.41 y	38:44	1.28	57.2		2.50	-	*		
1,2,3,7,8,9-HxCDD	4.13e+06	1.40 y	39:11	1.25	56.4		2.50	-	*		
1,2,3,4,6,7,8-HpCDD	4.81e+06	1.03 y	44:10	1.35	54.9		2.50	-	*		
OCDD	5.17e+06	0.97 y	49:44	1.25	116		2.50	-	*		
2,3,7,8-TCDF	2.61e+06	0.67 y	26:38	1.62	10.3		2.50	-	*		
1,2,3,7,8-PeCDF	6.80e+06	1.50 y	31:29	0.92	52.6		2.50	-	*		
2,3,4,7,8-PeCDF	6.54e+06	1.46 y	32:49	0.94	51.5		2.50	-	*		
1,2,3,4,7,8-HxCDF	6.40e+06	1.25 y	37:11	0.93	47.0		2.50	-	*		
1,2,3,6,7,8-HxCDF	6.67e+06	1.25 y	37:23	0.84	48.6		2.50	-	*		
2,3,4,6,7,8-HxCDF	5.99e+06	1.22 y	38:19	0.90	48.0		2.50	-	*		
1,2,3,7,8,9-HxCDF	6.15e+06	1.25 y	39:46	0.98	48.8		2.50	-	*		
1,2,3,4,6,7,8-HpCDF	5.46e+06	1.10 y	42:16	1.38	49.8		2.50	-	*		
1,2,3,4,7,8,9-HpCDF	5.88e+06	1.09 y	45:05	1.62	50.3		2.50	-	*		
OCDF	5.71e+06	0.86 y	50:06	0.74	93.3		2.50	-	*		
13C-2,3,7,8-TCDD	8.96e+06	0.83 y	27:23	0.93	92.1					92.1	
13C-1,2,3,7,8-PeCDD	8.43e+06	1.76 y	33:12	0.81	99.4					99.4	
13C-1,2,3,4,7,8-HxCDD	6.02e+06	1.21 y	38:33	0.95	95.9					95.9	
13C-1,2,3,6,7,8-HxCDD	5.71e+06	1.21 y	38:43	1.00	86.5					86.5	
13C-1,2,3,4,6,7,8-HpCDD	6.47e+06	1.01 y	44:09	0.92	106					106	
13C-OCDD	7.12e+06	0.96 y	49:42	0.63	170					84.8	
13C-2,3,7,8-TCDF	1.57e+07	0.87 y	26:37	0.87	94.8					94.8	
13C-1,2,3,7,8-PeCDF	1.41e+07	1.69 y	31:27	0.81	91.5					91.5	
13C-2,3,4,7,8-PeCDF	1.34e+07	1.68 y	32:47	0.75	93.6					93.6	
13C-1,2,3,4,7,8-HxCDF	1.47e+07	0.52 y	37:10	1.74	127					127	
13C-1,2,3,6,7,8-HxCDF	1.64e+07	0.52 y	37:22	2.17	114					114	
13C-2,3,4,6,7,8-HxCDF	1.39e+07	0.52 y	38:18	1.82	115					115	
13C-1,2,3,7,8,9-HxCDF	1.28e+07	0.53 y	39:45	1.49	130					130	
13C-1,2,3,4,6,7,8-HpCDF	7.94e+06	0.44 y	42:15	1.10	109					109	
13C-1,2,3,4,7,8,9-HpCDF	7.19e+06	0.44 y	45:05	0.81	133					133	
13C-OCDF	1.66e+07	0.98 y	50:04	1.19	210					105	
37Cl-2,3,7,8-TCDD	3.77e+06		27:24	0.93	38.7					96.6	
13C-1,2,3,4-TCDD	1.05e+07	0.85 y	26:47	-	31.0						
13C-1,2,3,4-TCDF	1.91e+07	0.87 y	25:32	-	35.8						
13C-1,2,3,7,8,9-HxCDD	6.64e+06	1.19 y	39:11	-	30.8						
Total Tetra-Dioxins	1.04e+06		23:00	1.04	11.2		2.50	-	*		22
Total Penta-Dioxins	4.48e+06		32:15	1.05	50.8		2.50	-	*		12
Total Hexa-Dioxins	1.28e+07		38:34	1.27	171		2.50	-	*		11
Total Hepta-Dioxins	5.16e+06		42:28	1.35	58.9		2.50	-	*		29
Total Tetra-Furans	2.74e+06		23:23	1.62	10.8		2.50	-	*		17
1st Fn. Tot Penta-Furans	6.83e+04		22:54	0.93	0.534		2.50	-	*	PeCDF	24
Total Penta-Furans	1.37e+07		30:13	0.93	107		2.50	-	*	107	11
Total Hexa-Furans	2.53e+07		35:32	0.90	193		2.50	-	*		12
Total Hepta-Furans	1.16e+07		42:16	1.48	103		2.50	-	*		27

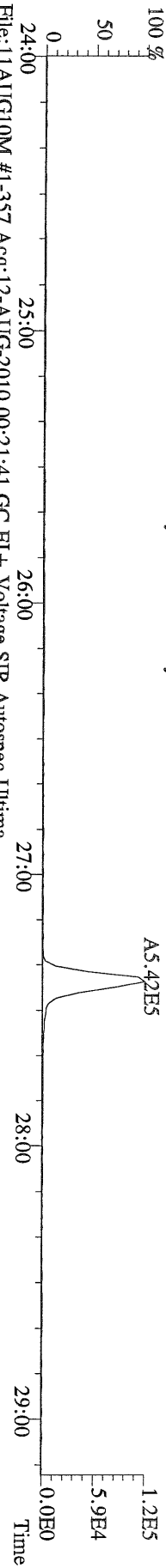
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Date: 8/12/10

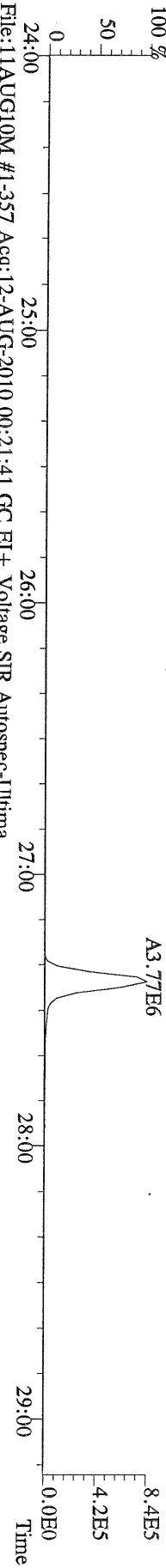
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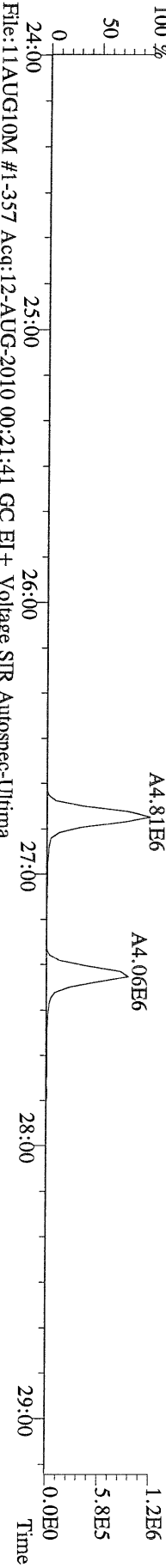
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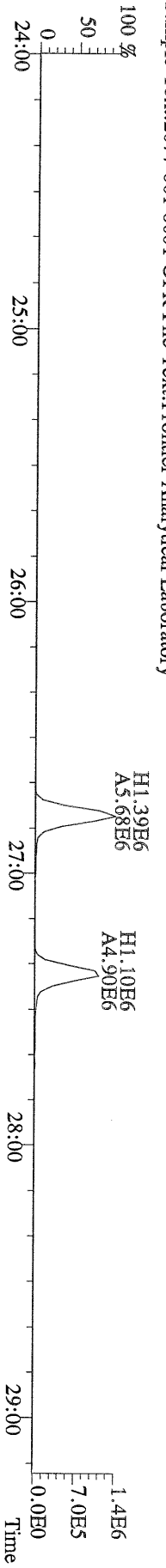
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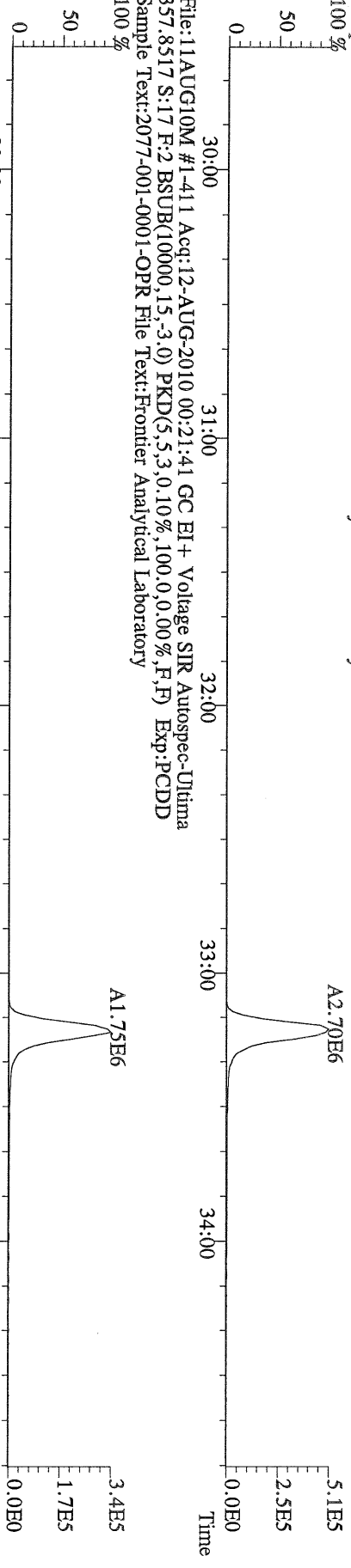
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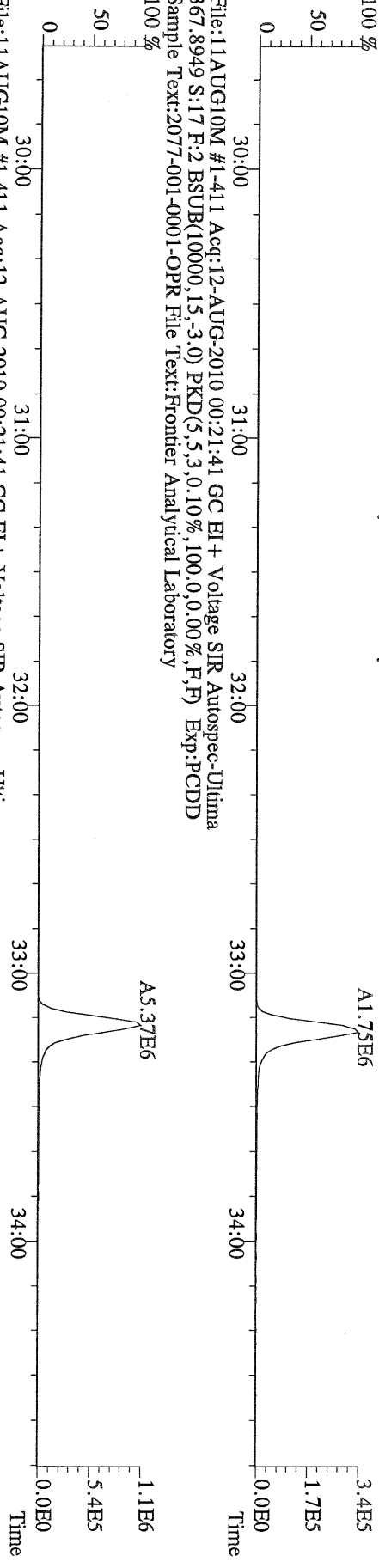
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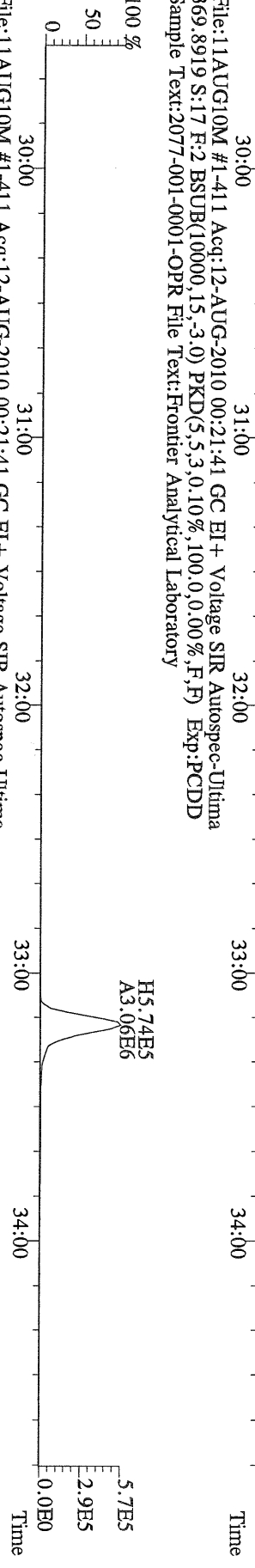
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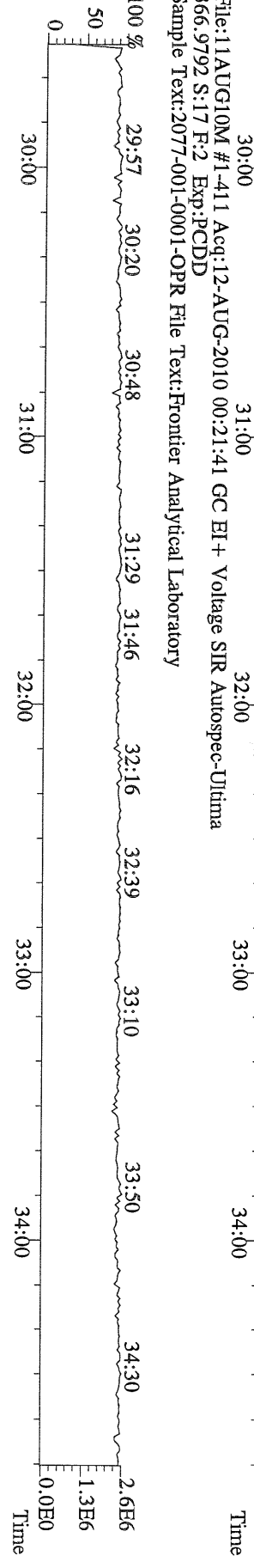
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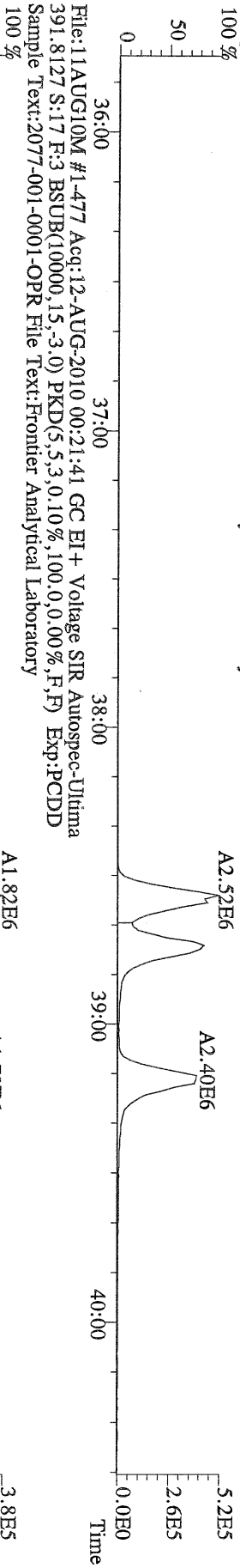
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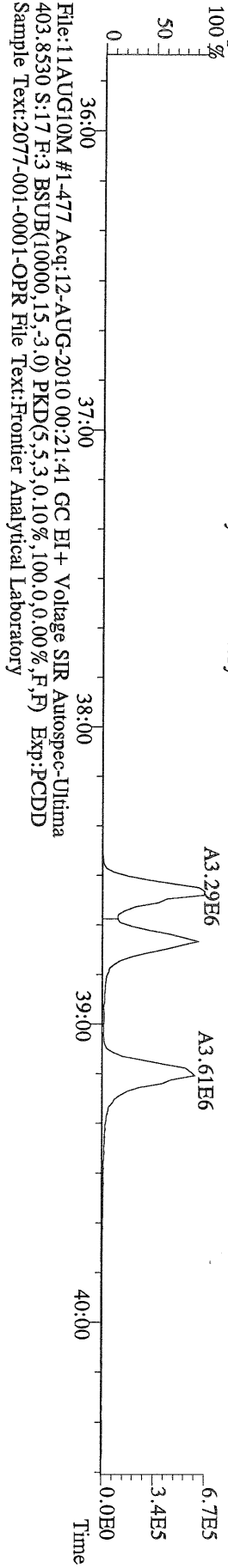
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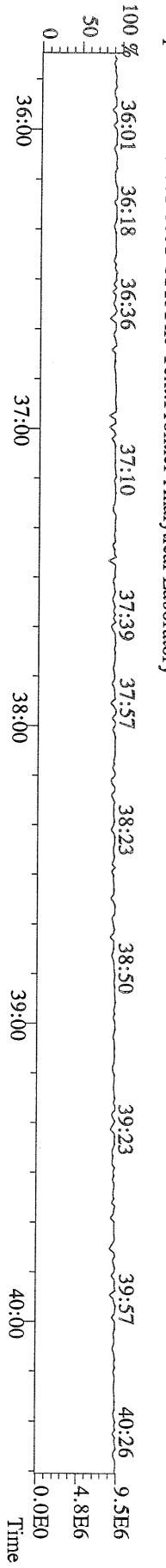
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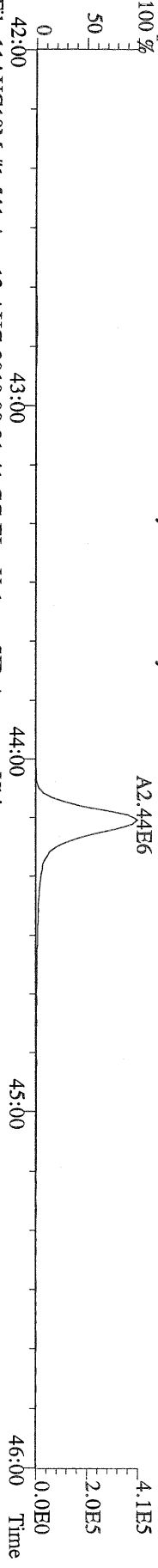
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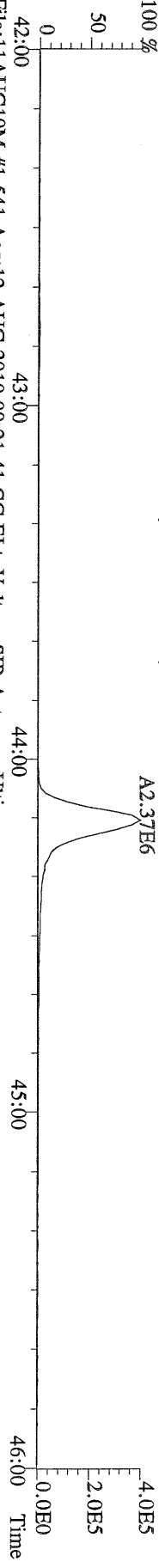
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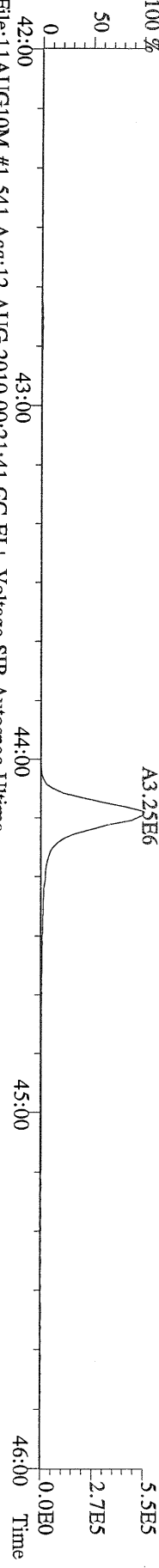
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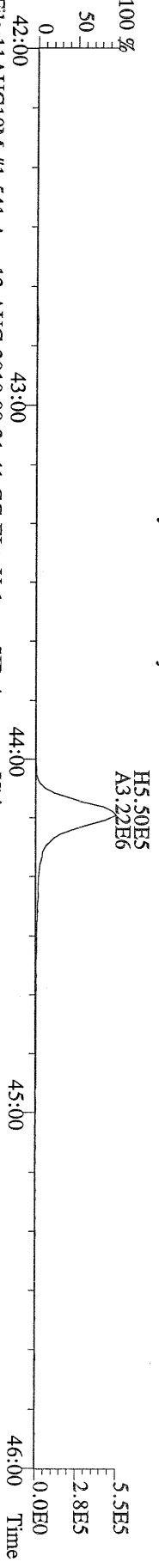
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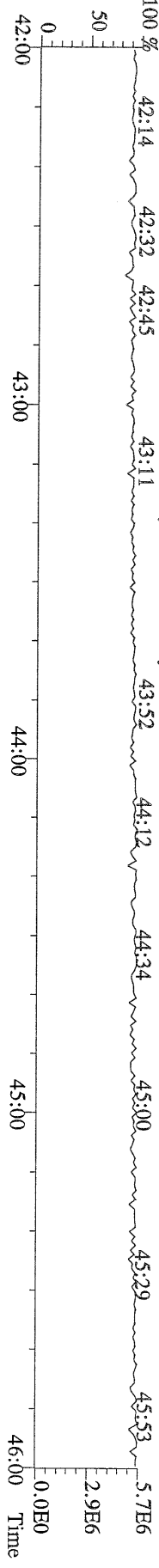
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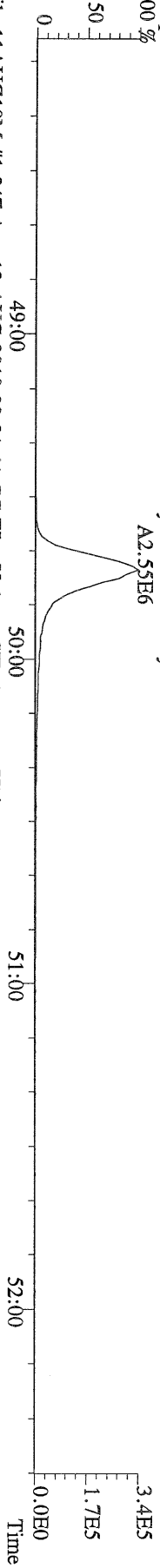
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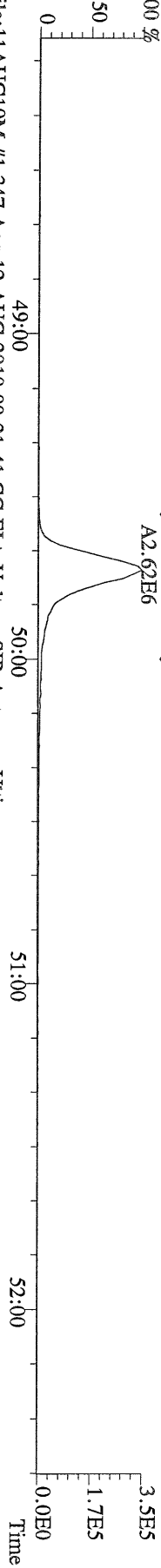
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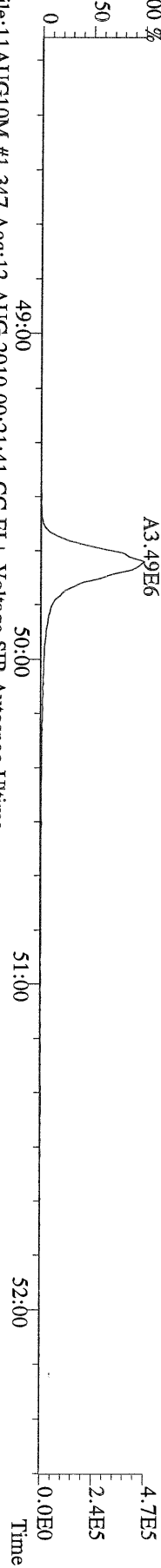
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100 %



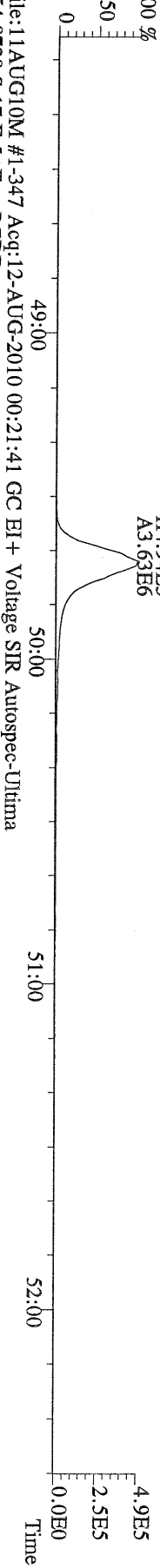
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100 %



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100 %



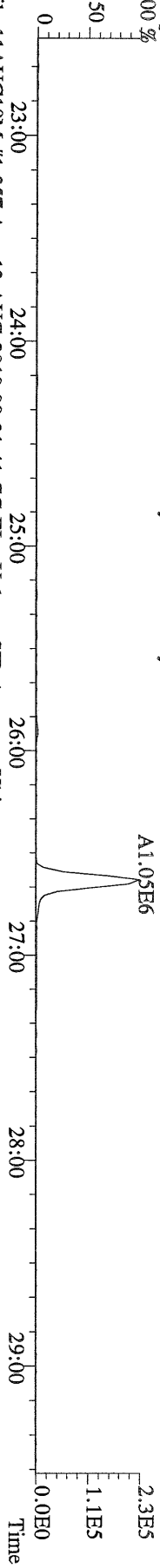
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100 %



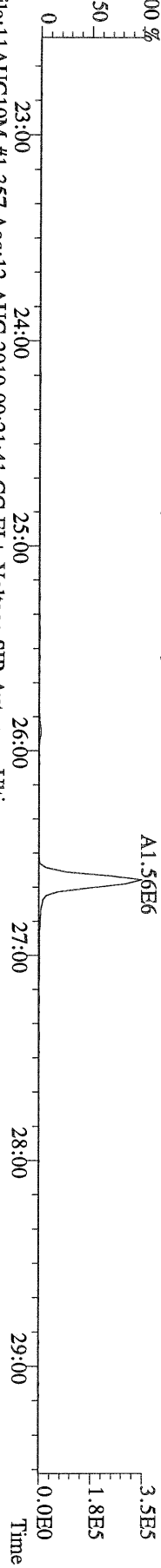
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482.9728 S:17 F:5 Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



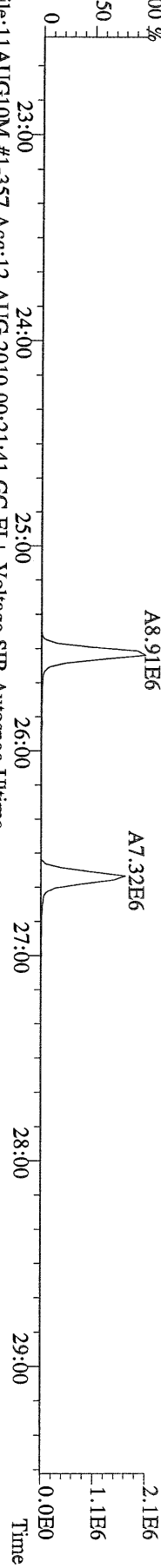
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



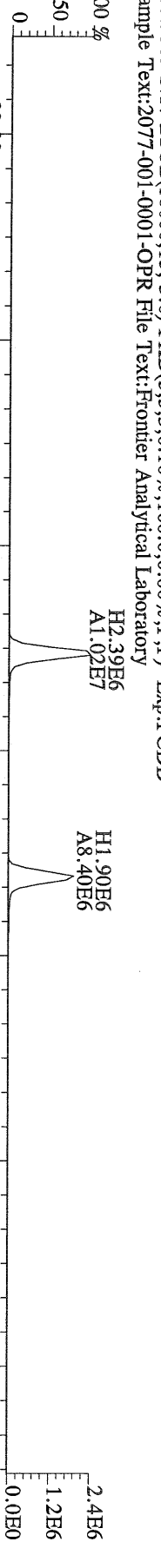
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



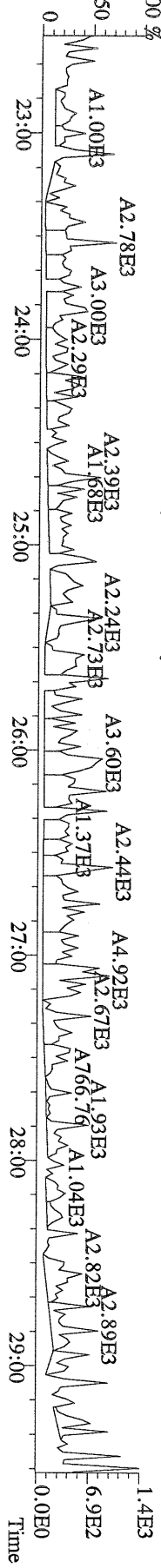
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



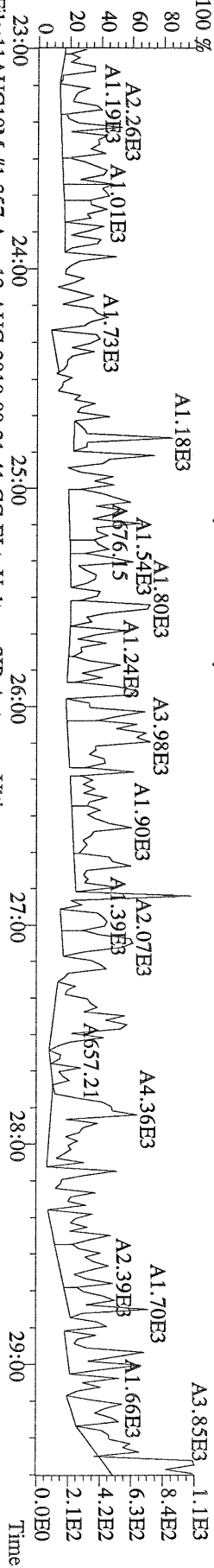
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



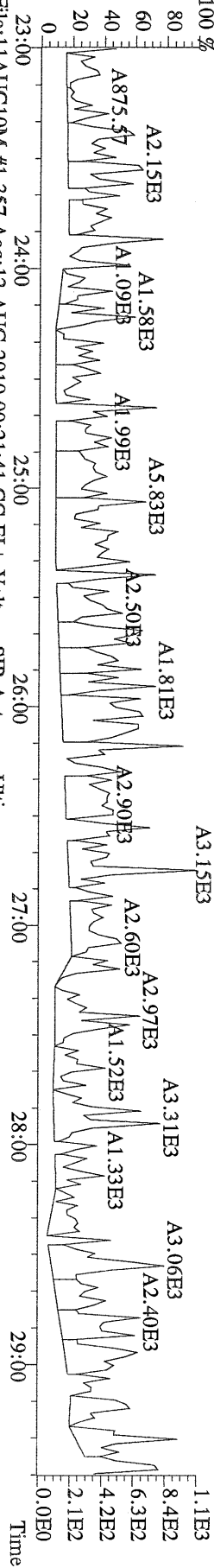
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



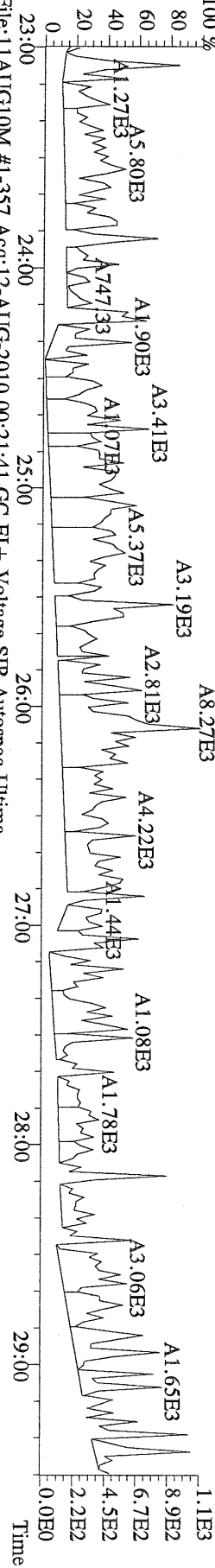
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



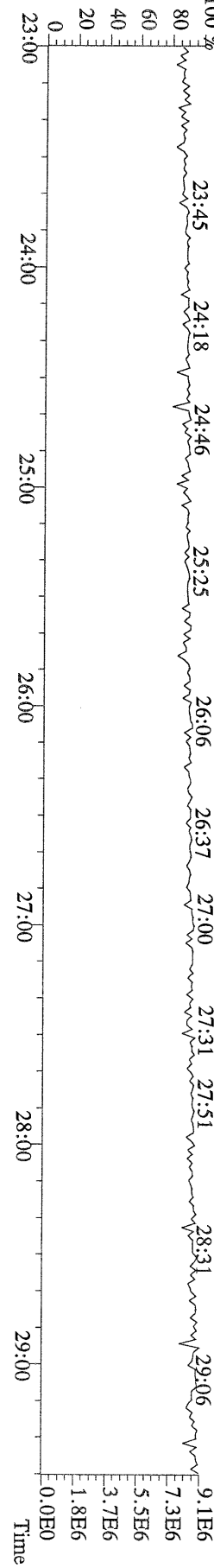
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



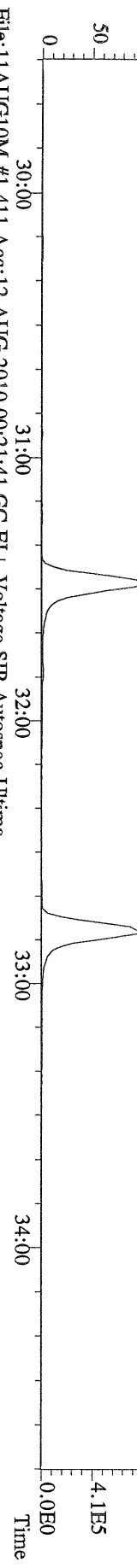
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



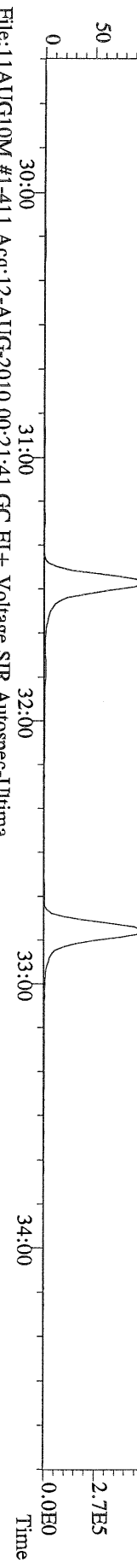
File:11AUG10M #1-357 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:17 Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



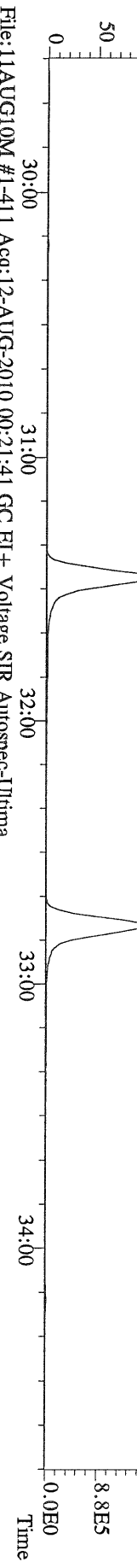
File:11AUG10M #1-411 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:17 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



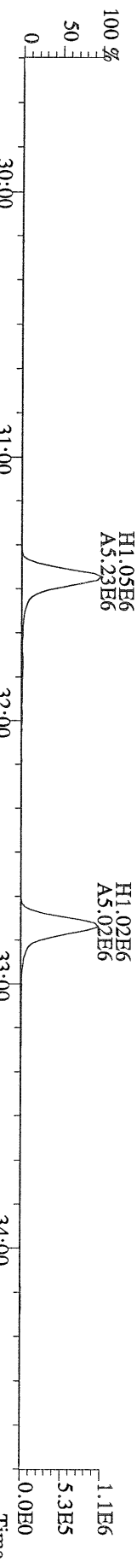
File:11AUG10M #1-411 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:17 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



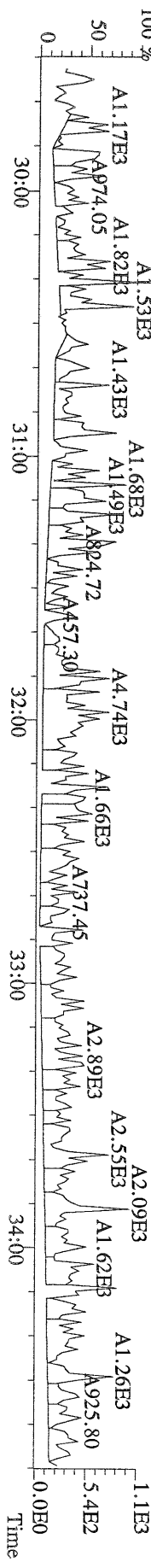
File:11AUG10M #1-411 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:17 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



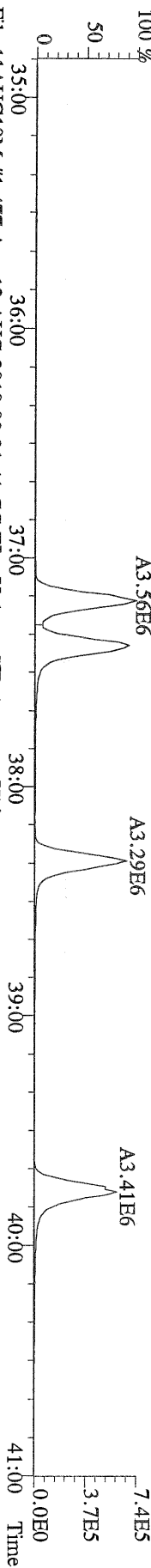
File:11AUG10M #1-411 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:17 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



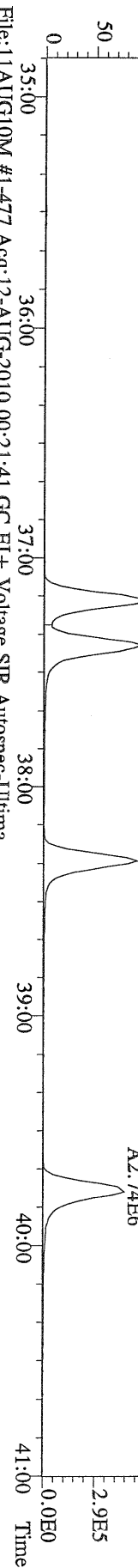
File:11AUG10M #1-411 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:17 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



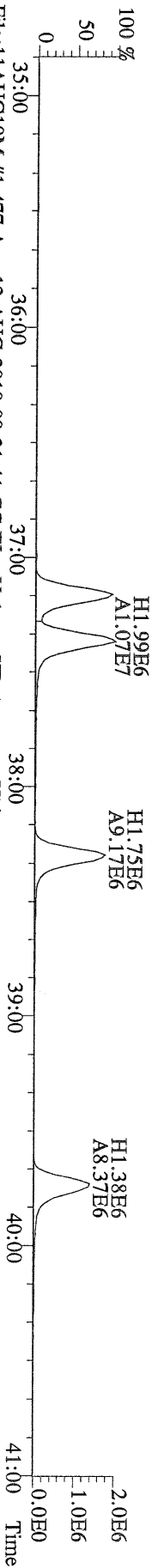
File:11AUG10M #1-477 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:17 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



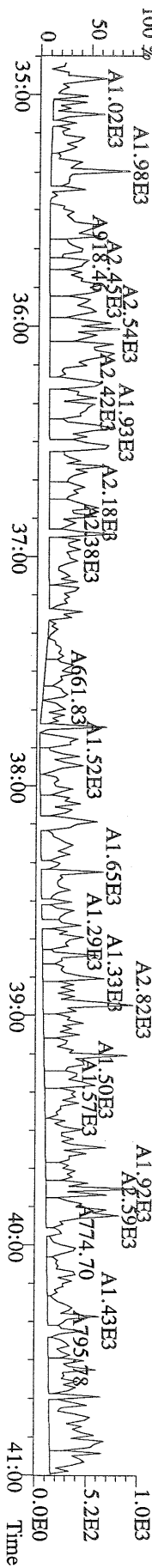
File:11AUG10M #1-477 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:17 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



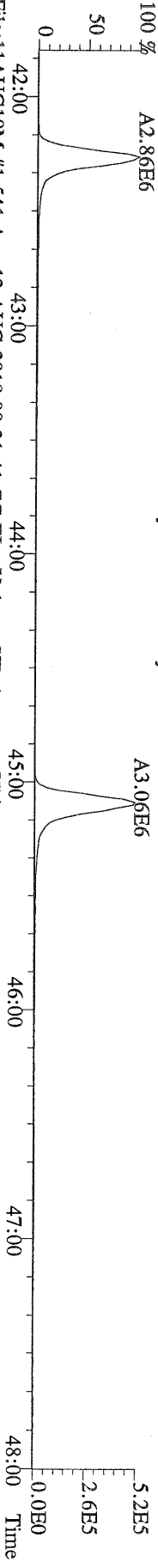
File:11AUG10M #1-477 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:17 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



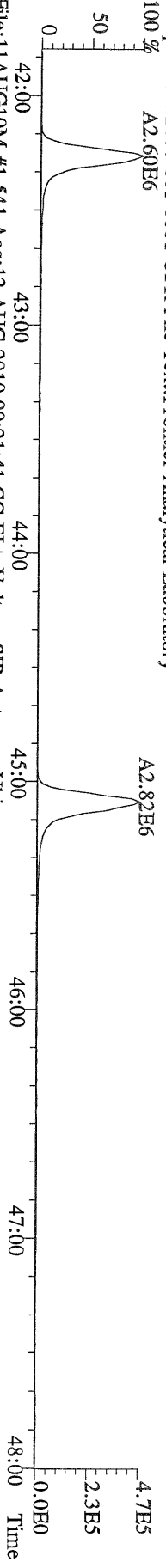
File:11AUG10M #1-477 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:17 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



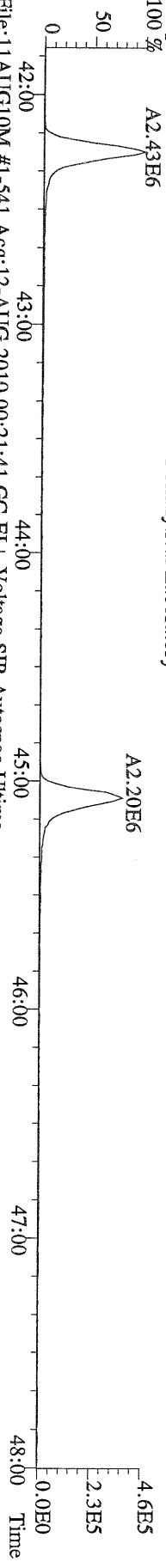
File:11AUG10M #1-541 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:17 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



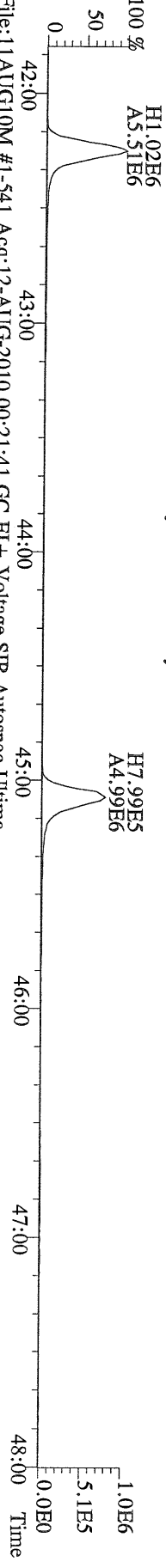
File:11AUG10M #1-541 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:17 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



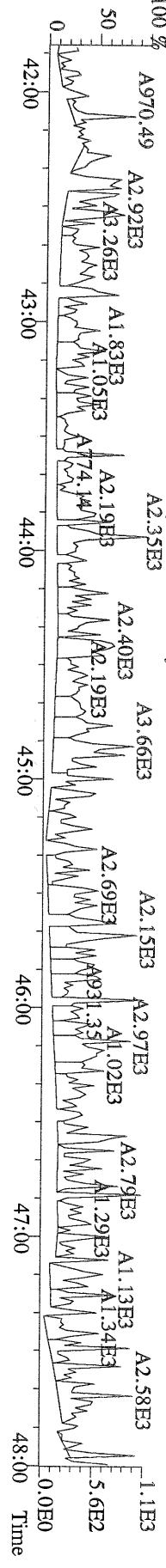
File:11AUG10M #1-541 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:17 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



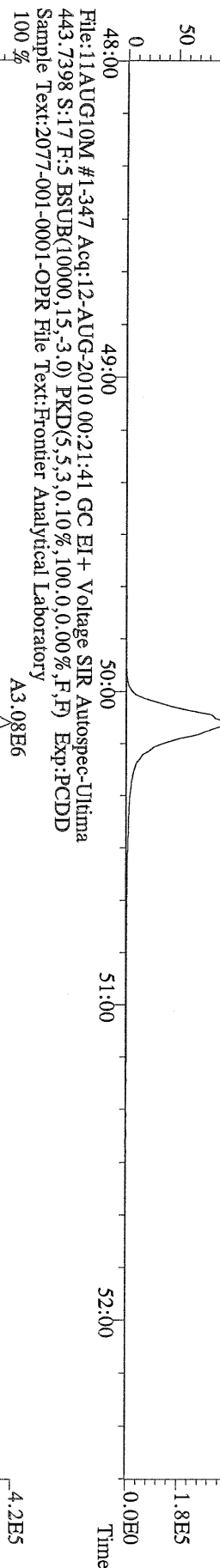
File:11AUG10M #1-541 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:17 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



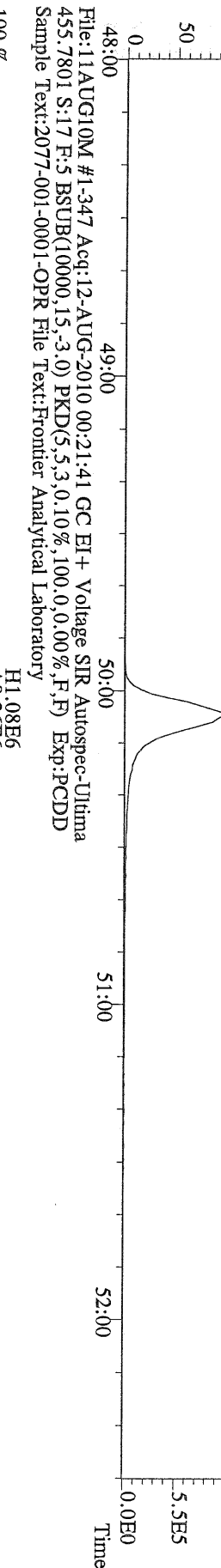
File:11AUG10M #1-541 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:17 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory
 100 %



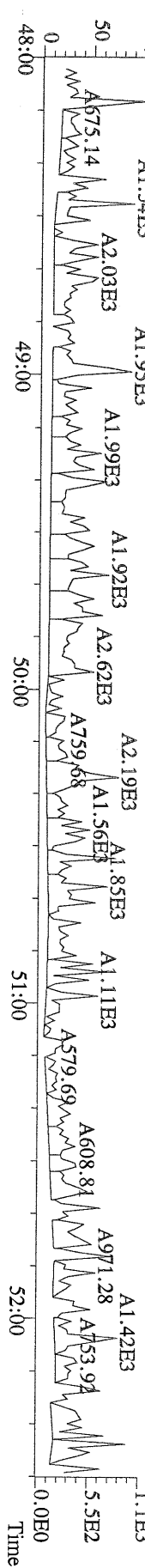
File:11AUG10M #1-347 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:17 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:17 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:12-AUG-2010 00:21:41 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:17 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2077-001-0001-OPR File Text:Frontier Analytical Laboratory



NATO 1989 Tox: 0.428
 WHO 1998 Tox: 0.267 WHO 2005 Tox: ^{0.302}
 DL ~~0.303~~ 8/17/10

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	274	343	0.630	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	416	350	0.929	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	343	323	0.947	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	*		2.50	343	323	0.968	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	343	323	0.988	
1,2,3,4,6,7,8-HpCDD	2.01e+05	0.99 y	44:11	1.35	19.3		2.50	-	-	*	
OCDD	9.18e+05	1.00 y	49:43	1.25	167		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	357	515	0.316	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	417	388	0.660	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	417	388	0.653	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	354	411	0.616	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	354	411	0.653	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	354	411	0.666	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	354	411	0.742	
1,2,3,4,6,7,8-HpCDF	7.14e+04	1.08 y	42:16	1.38	5.52	J	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	363	337	0.758	
OCDF	9.65e+04	0.78 y	50:06	0.74	13.3	J	2.50	-	-	*	
13C-2,3,7,8-TCDD	1.01e+07	0.87 y	27:22	0.93	949					94.9	
13C-1,2,3,7,8-PeCDD	9.87e+06	1.75 y	33:11	0.81	1060					106	
13C-1,2,3,4,7,8-HxCDD	6.77e+06	1.21 y	38:33	0.95	886					88.6	
13C-1,2,3,6,7,8-HxCDD	6.94e+06	1.23 y	38:43	1.00	863					86.3	
13C-1,2,3,4,6,7,8-HpCDD	7.69e+06	1.01 y	44:09	0.92	1030					103	
13C-OCDD	8.82e+06	0.94 y	49:42	0.63	1730					86.4	
13C-2,3,7,8-TCDF	1.81e+07	0.88 y	26:38	0.87	970					97.0	
13C-1,2,3,7,8-PeCDF	1.64e+07	1.69 y	31:27	0.81	943					94.3	
13C-2,3,4,7,8-PeCDF	1.53e+07	1.68 y	32:47	0.75	943					94.3	
13C-1,2,3,4,7,8-HxCDF	1.70e+07	0.52 y	37:10	1.74	1210					121	
13C-1,2,3,6,7,8-HxCDF	1.93e+07	0.51 y	37:22	2.17	1100					110	
13C-2,3,4,6,7,8-HxCDF	1.68e+07	0.53 y	38:18	1.82	1150					115	
13C-1,2,3,7,8,9-HxCDF	1.50e+07	0.52 y	39:44	1.49	1250					125	
13C-1,2,3,4,6,7,8-HpCDF	9.36e+06	0.44 y	42:15	1.10	1060					106	
13C-1,2,3,4,7,8,9-HpCDF	8.35e+06	0.45 y	45:04	0.81	1270					127	
13C-OCDF	1.96e+07	0.97 y	50:05	1.19	2040					102	
37Cl-2,3,7,8-TCDD	4.34e+06		27:24	0.93	404					101	
13C-1,2,3,4-TCDD	1.15e+07	0.85 y	26:48	-	17.0						
13C-1,2,3,4-TCDF	2.15e+07	0.87 y	25:33	-	20.2						
13C-1,2,3,7,8,9-HxCDD	8.08e+06	1.24 y	39:10	-	18.7						
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	274	343	0.630	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	416	350	0.929	0
Total Hexa-Dioxins	6.16e+04		36:05	1.27	7.05	J	2.50	-	-	*	2
Total Hepta-Dioxins	4.08e+05		42:48	1.35	39.2		2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.62	*		2.50	880	1060	0.703	0
1st Fn. Tot Penta-Furans	2.82e+04		28:26	0.93	1.92	J	2.50	-	-	*	PeCDF 1
Total Penta-Furans	*		NotFnd	0.93	*	J	2.50	-	-	*	1.92 0
Total Hexa-Furans	8.39e+04		35:30	0.90	5.45	J	2.50	-	-	*	2
Total Hepta-Furans	1.76e+05		42:16	1.48	13.5		2.50	-	-	*	2

Analyst: [Signature]

Date: 8/13/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 25

File: 11AUG10M

S: 22 I: 1 F: 3

Acquired: 12-AUG-10 04:58:14

Total Concentration: 7.05

Unnamed Concentration: 7.052

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:05	1.29e+04	9.16e+03	1.41 y	2.21e+04	2.52	
37:29	2.15e+04	1.81e+04	1.19 y	3.96e+04	4.53	

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 25

File: 11AUG10M

S: 22 I: 1 F: 4

Acquired: 12-AUG-10 04:58:14

Total Concentration: 39.2

Unnamed Concentration: 19.834

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	1.05e+05	1.01e+05	1.04 y	2.06e+05	19.8	
44:11	1.00e+05	1.01e+05	0.99 y	2.01e+05	19.3	1,2,3,4,6,7,8-HpCDD

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

Run: 25 File: 11AUG10M S: 22 I: 1 F: 1
Acquired: 12-AUG-10 04:58:14

Total Concentration: 1.92 Unnamed Concentration: 1.920

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:26	1.65e+04	1.17e+04	1.41 y	2.82e+04	1.92	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 25

File: 11AUG10M

S: 22 I: 1 F: 3

Acquired: 12-AUG-10 04:58:14

Total Concentration: 5.45

Unnamed Concentration: 5.450

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:30	2.32e+04	1.96e+04	1.18 y	4.29e+04	2.78	
36:25	2.31e+04	1.80e+04	1.28 y	4.11e+04	2.67	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 25

File: 11AUG10M

S: 22 I: 1 F: 4

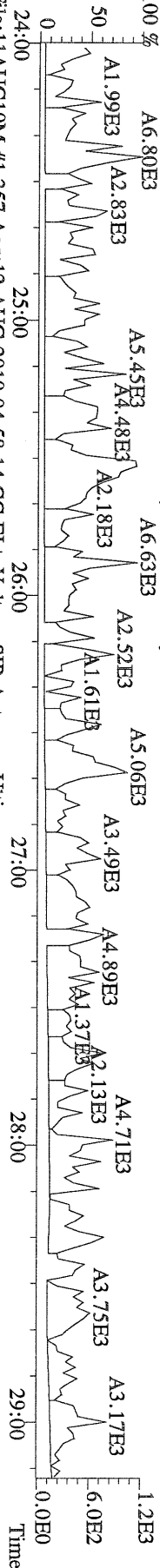
Acquired: 12-AUG-10 04:58:14

Total Concentration: 13.5

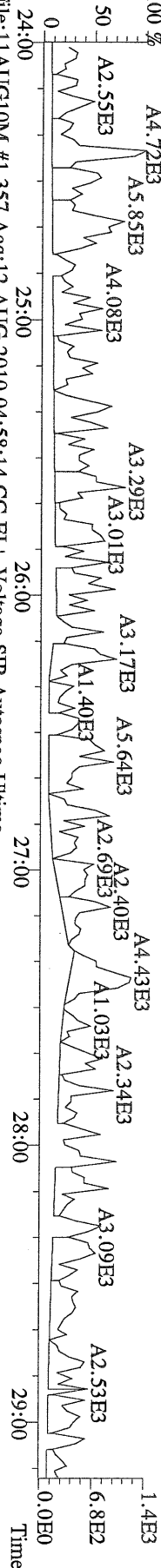
Unnamed Concentration: 7.965

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	3.71e+04	3.43e+04	1.08 y	7.14e+04	5.52	1,2,3,4,6,7,8-HpCDF
43:06	5.24e+04	5.23e+04	1.00 y	1.05e+05	7.97	

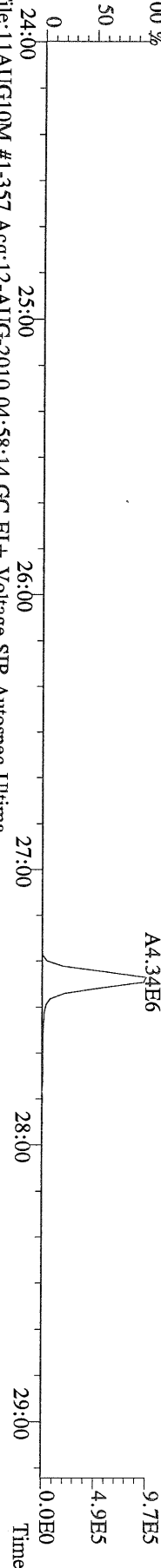
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



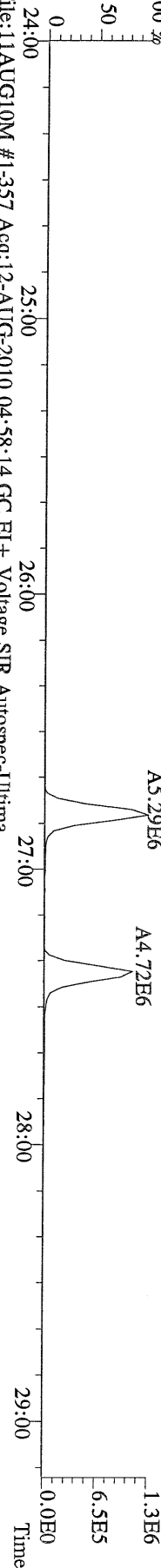
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321.8936 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



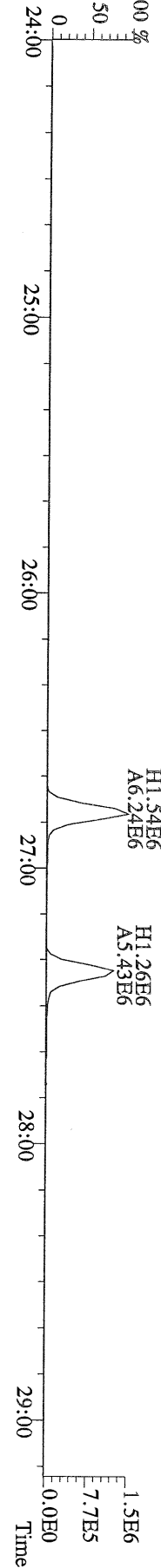
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



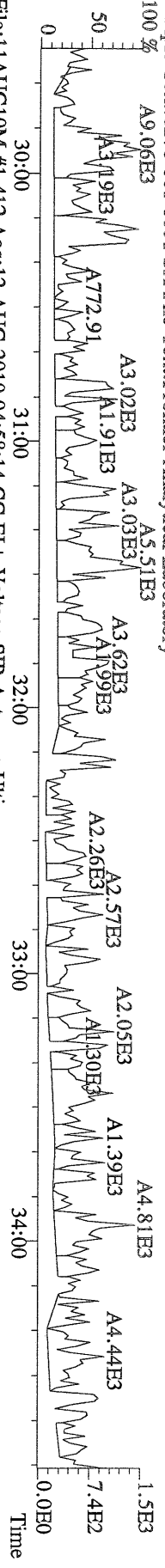
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI + Voltage SIR Autospec-Ultima
331.9368 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



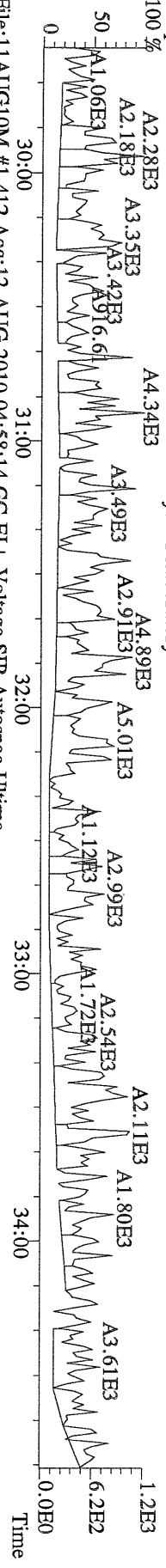
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



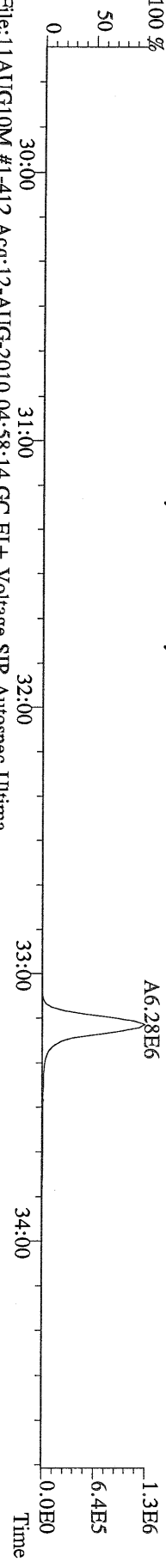
File:11AUG10M #1-412 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



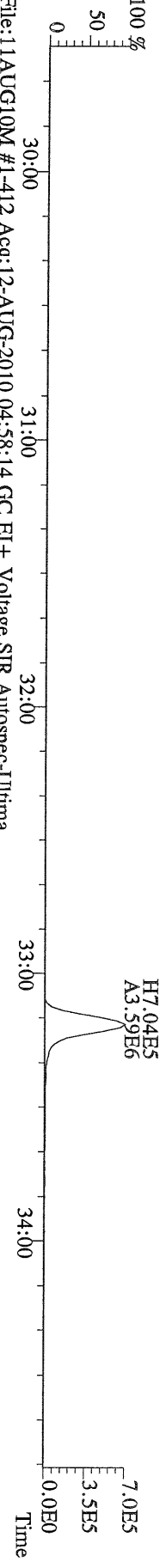
File:11AUG10M #1-412 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 357.8517 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



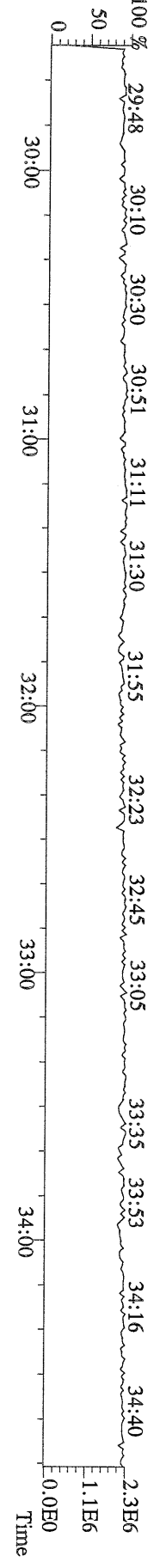
File:11AUG10M #1-412 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:22 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



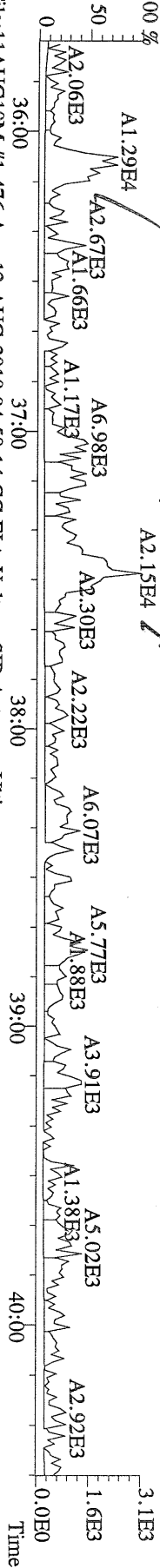
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 366.9792 S:22 F:2 Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



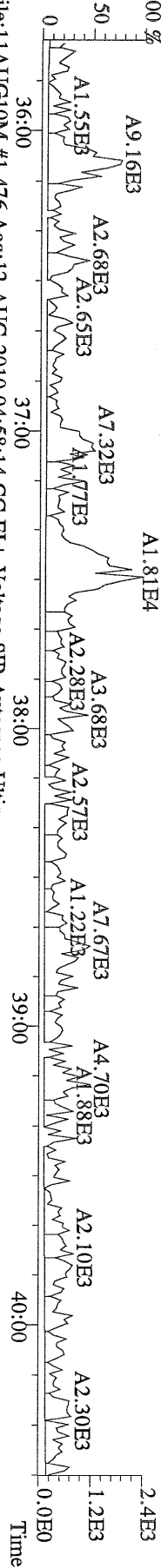
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 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



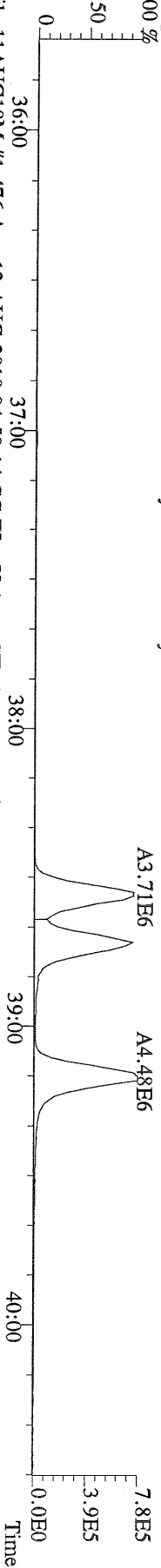
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



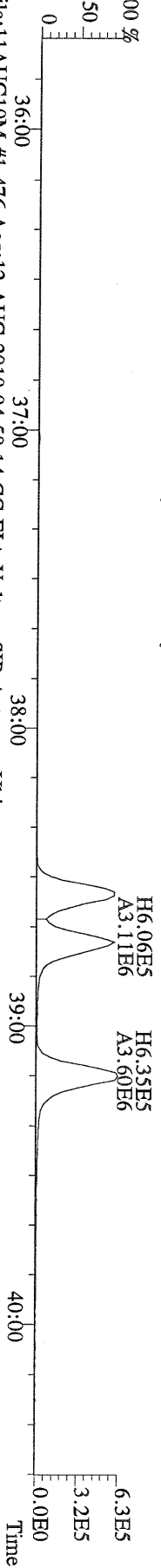
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



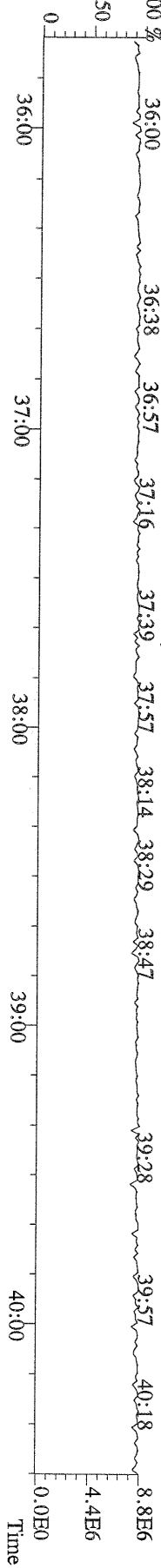
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



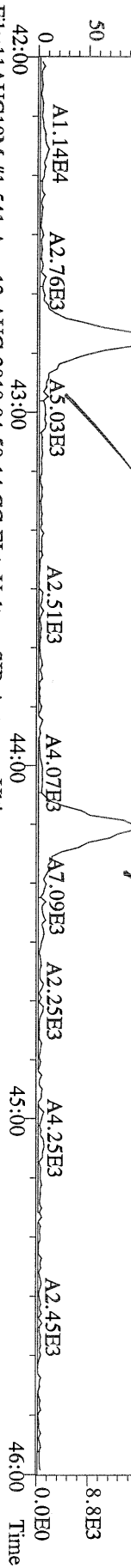
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 403.8530 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



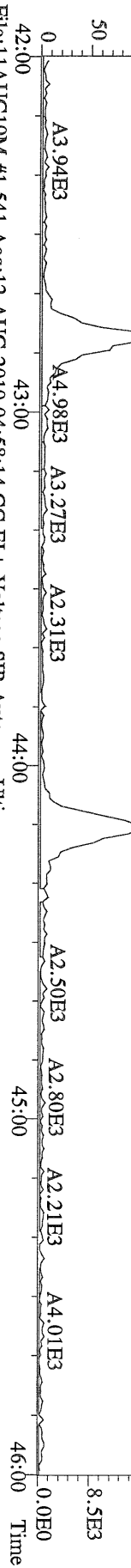
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 380.9760 S:22 F:3 Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



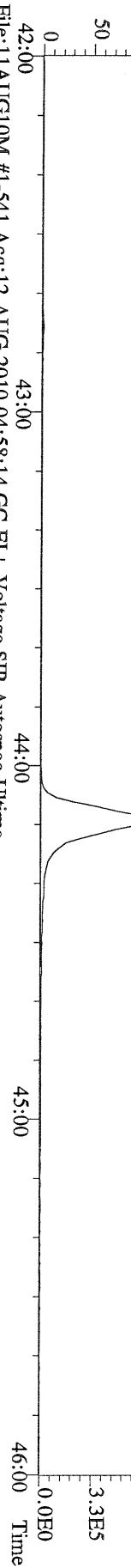
File:11AUG10M #1-541 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



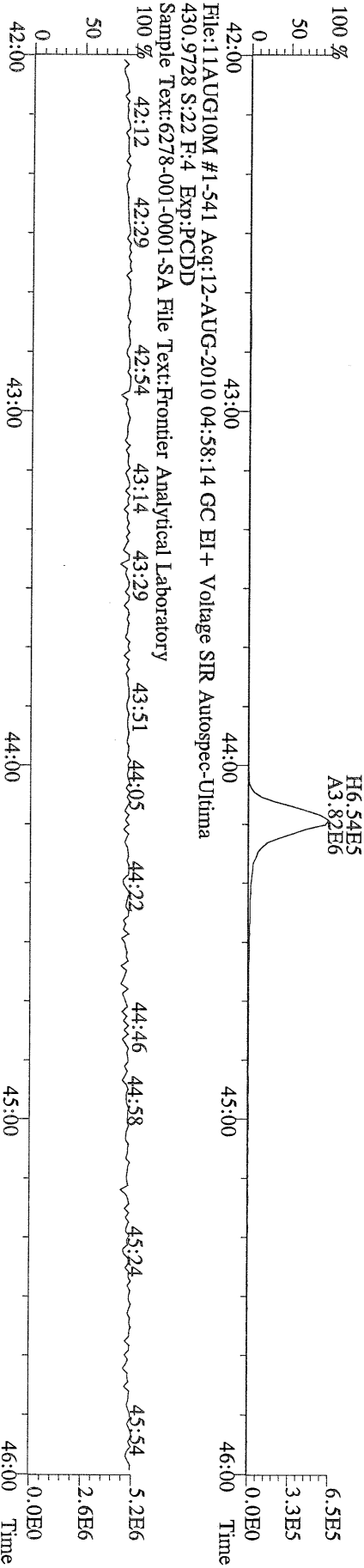
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 425.7737 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



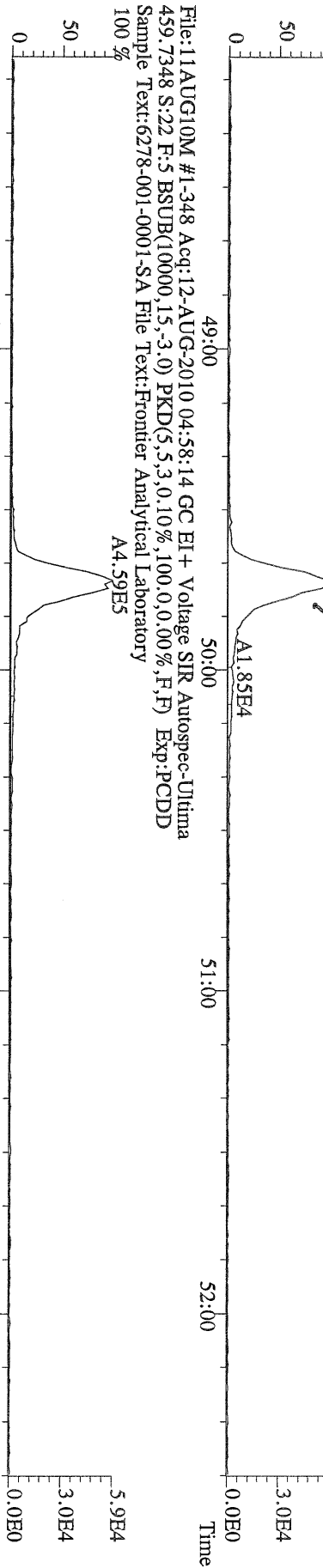
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 437.8140 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



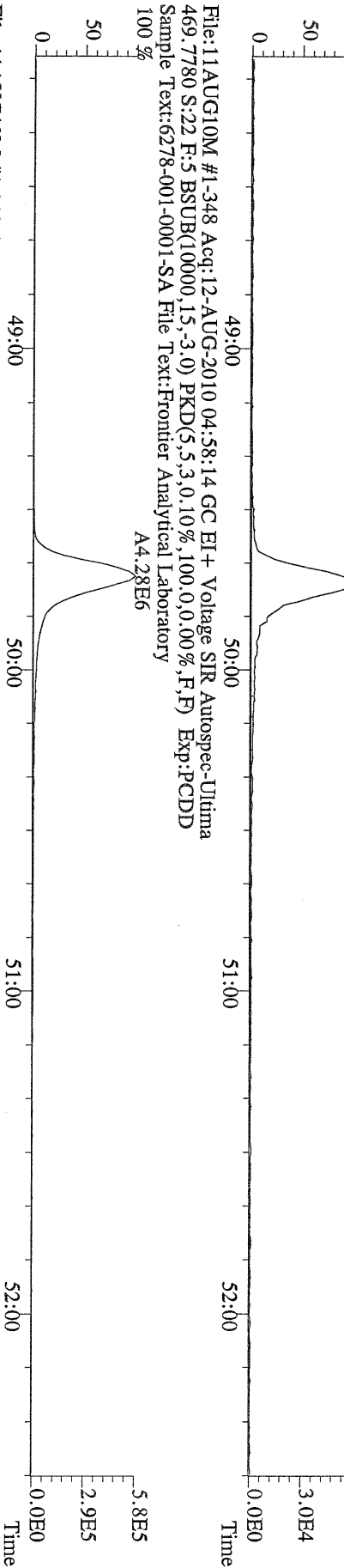
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 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



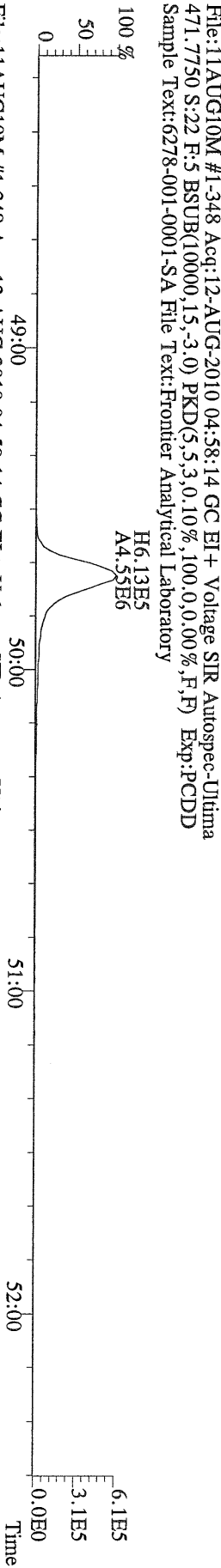
File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



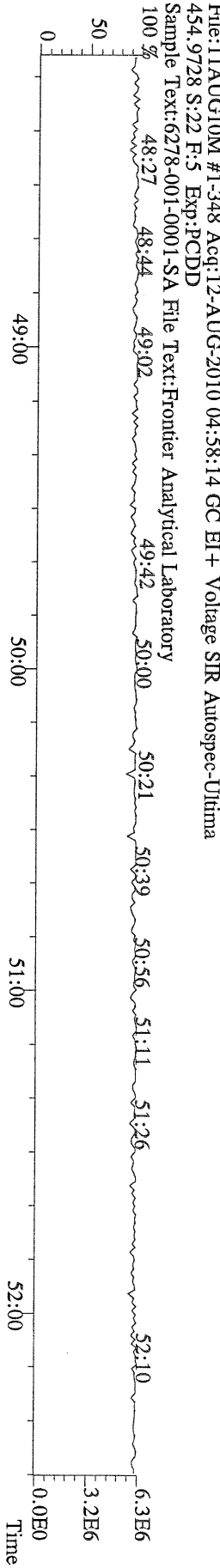
File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



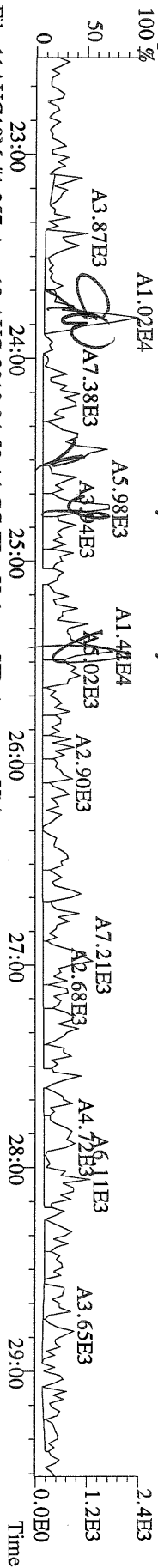
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471.7750 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



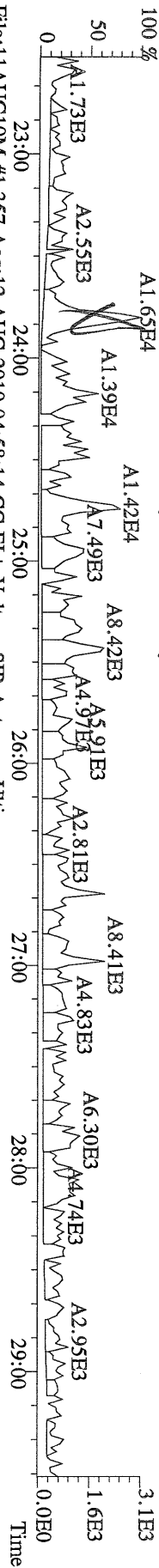
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454.9728 S:22 F:5 Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



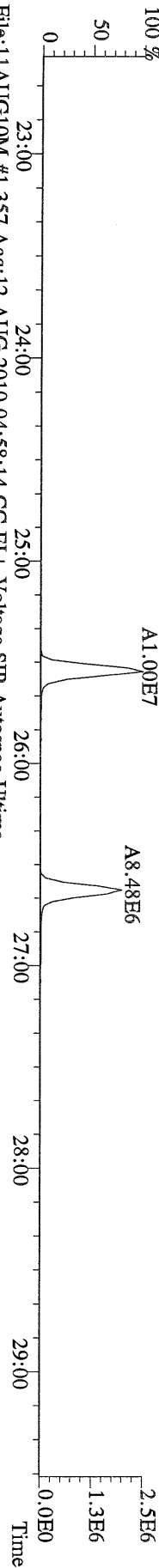
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ulhma
 303.9016 S:22 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



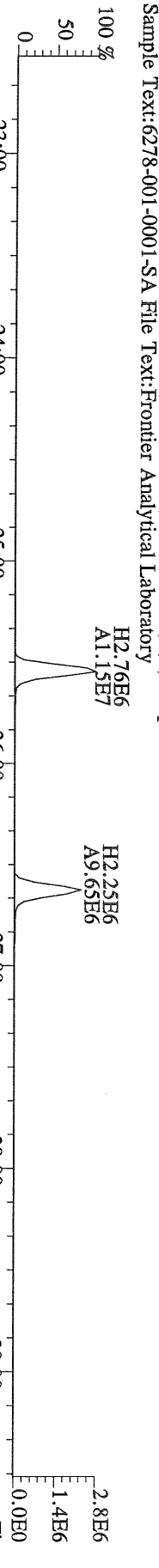
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ulhma
 305.8987 S:22 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



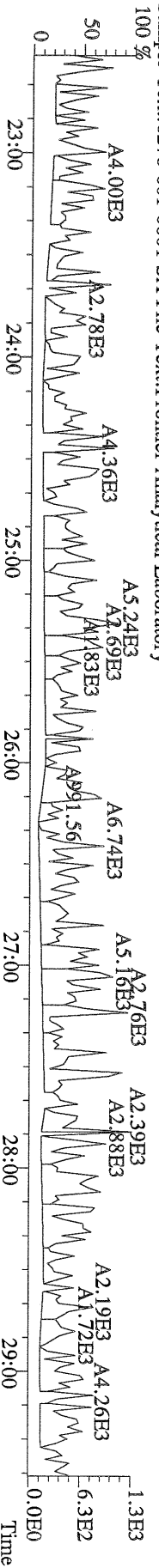
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ulhma
 315.9419 S:22 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



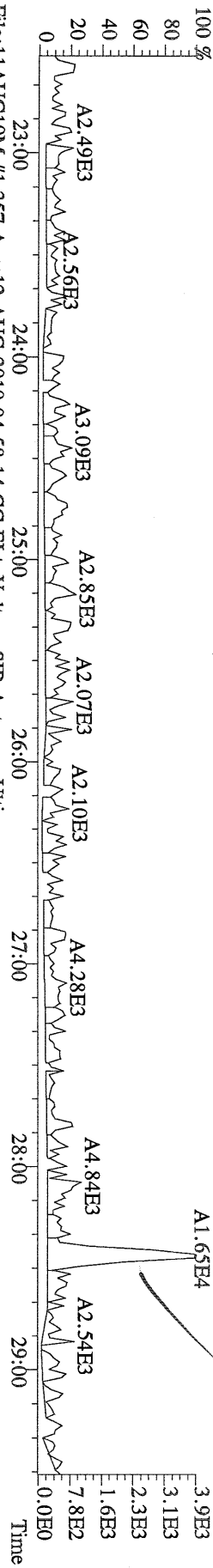
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 317.9389 S:22 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



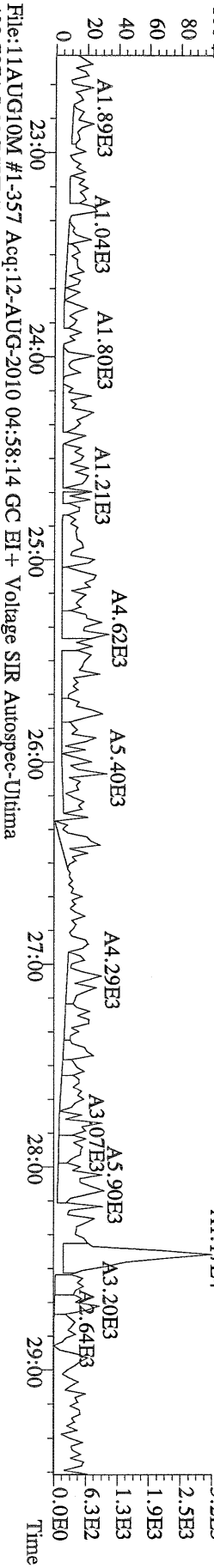
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ulhma
 375.8364 S:22 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



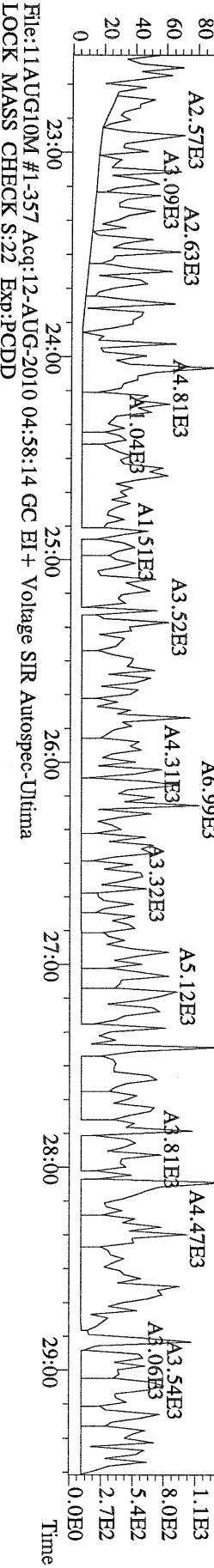
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:22 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



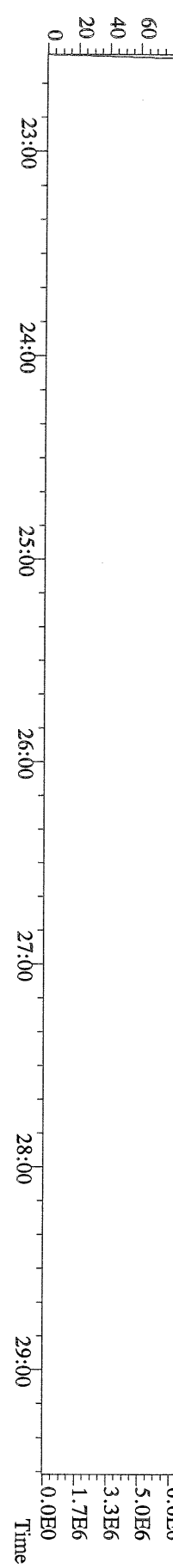
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 341.8568 S:22 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



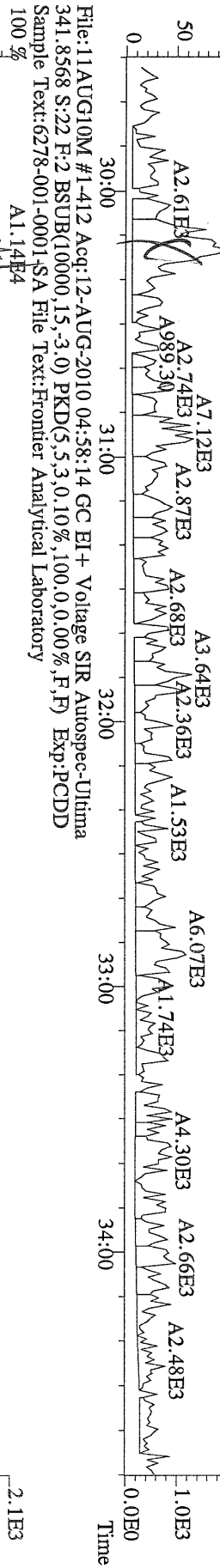
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:22 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



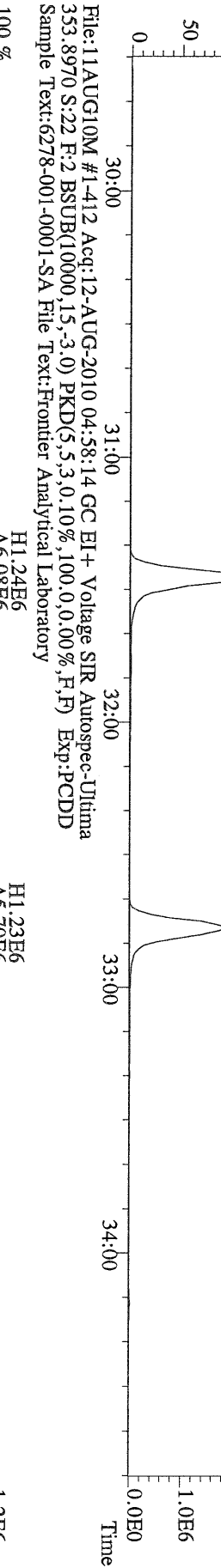
File:11AUG10M #1-357 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 LOCK MASS CHECK S:22 Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



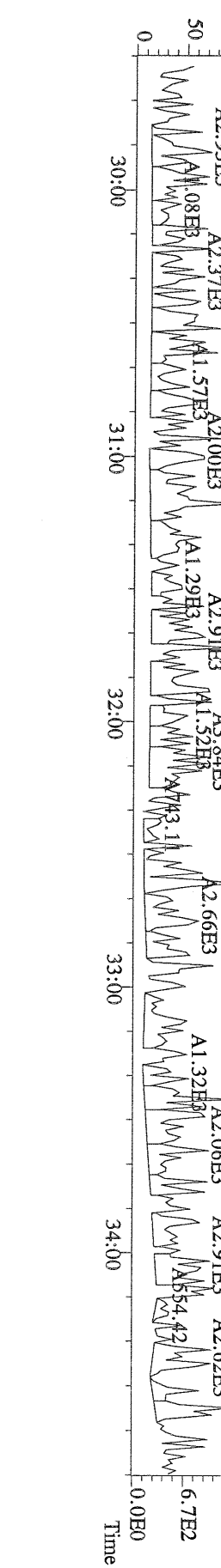
File:11AUG10M #1-412 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:22 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



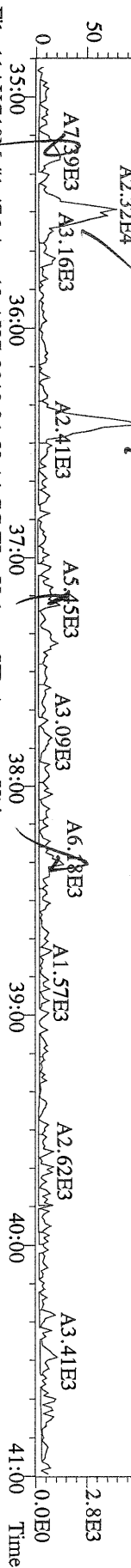
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351.9000 S:22 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



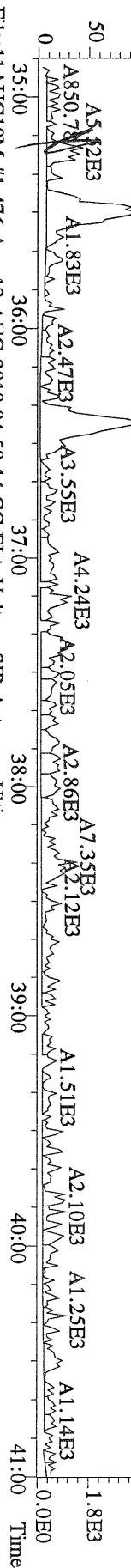
File:11AUG10M #1-412 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:22 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



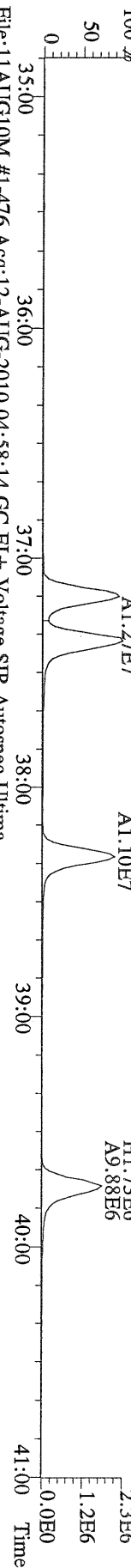
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Utima
 375.8178 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



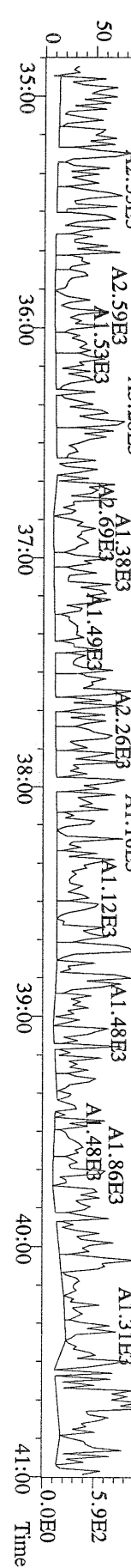
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Utima
 383.8639 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



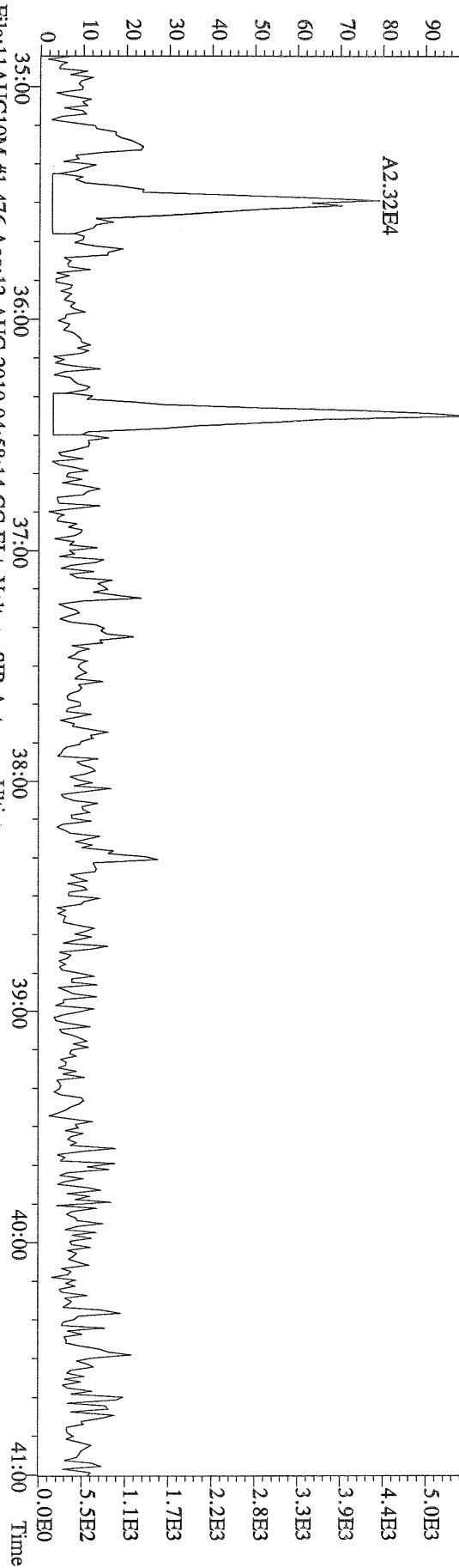
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Utima
 385.8610 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



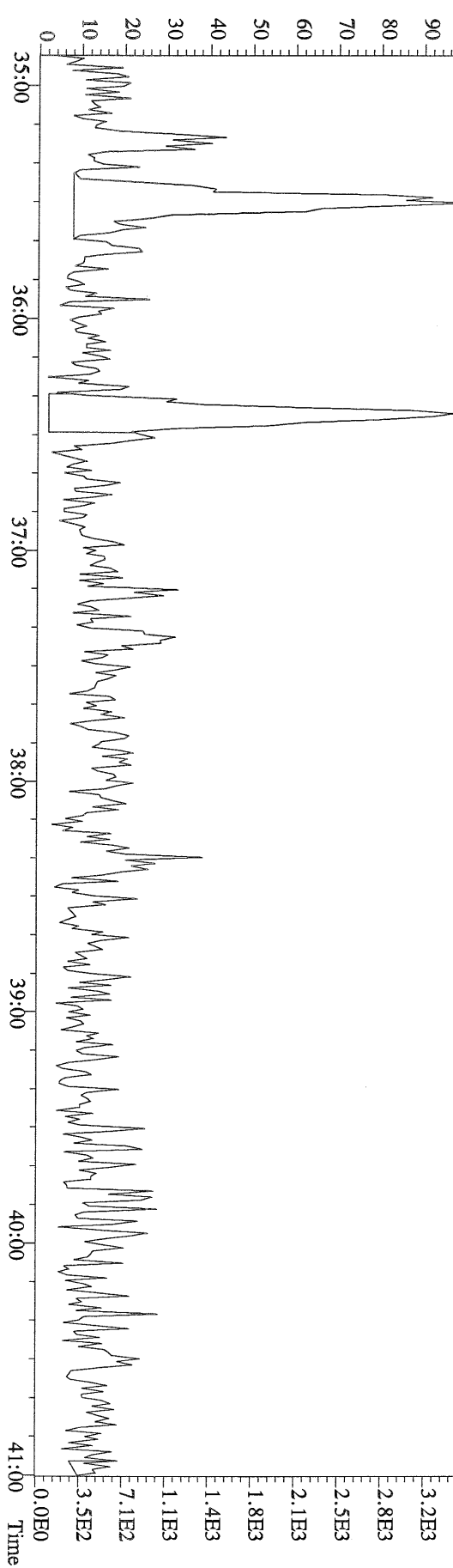
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



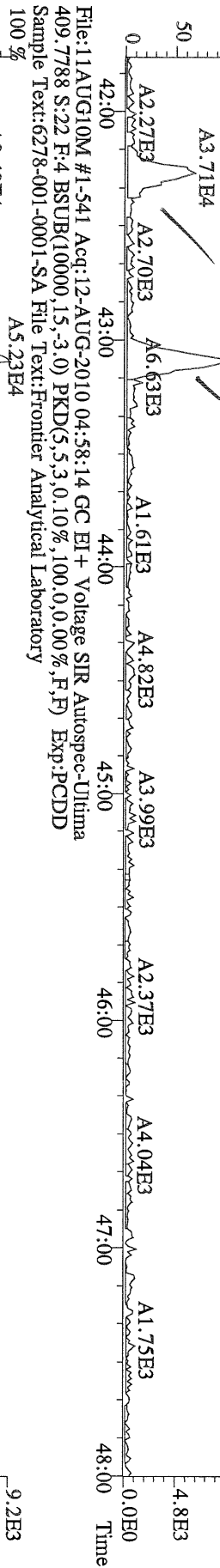
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



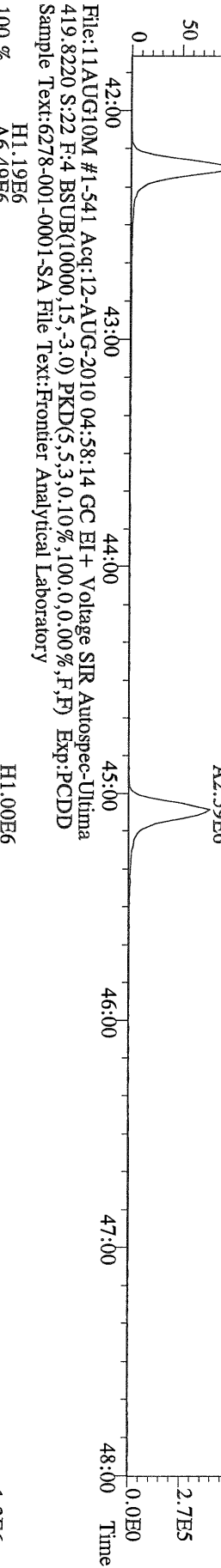
File:11AUG10M #1-476 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:22 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



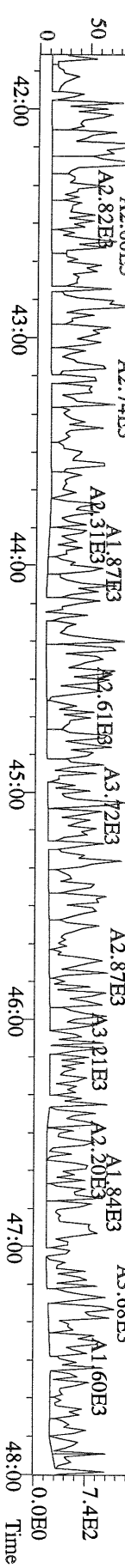
File:11AUG10M #1-541 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:22 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



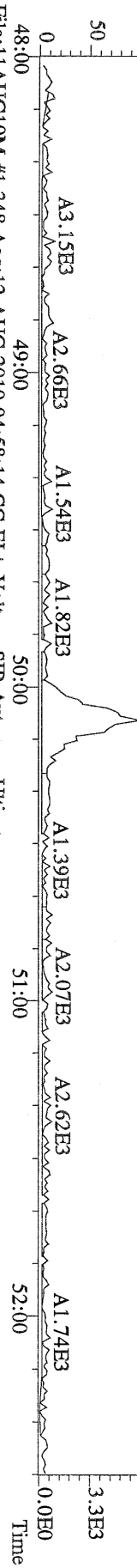
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417.8253 S:22 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-541 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:22 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



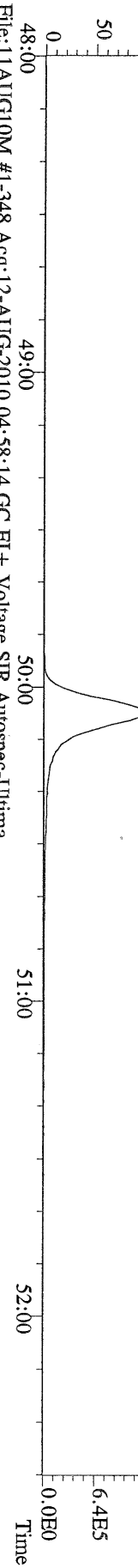
File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:22 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



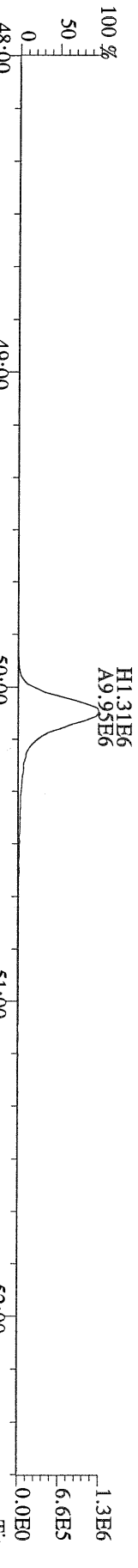
File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 443.7398 S:22 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



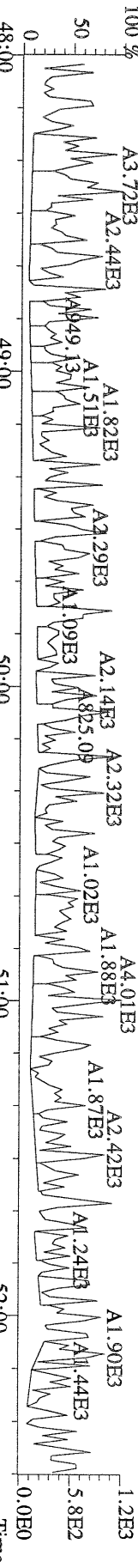
File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:22 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 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:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:12-AUG-2010 04:58:14 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:PCDD
 Sample Text:6278-001-0001-SA File Text:Frontier Analytical Laboratory



Results: 2077 GC Column: DB5 Amount: 2.060 NATO 1989 Tox: 0.405 WHO 1998 Tox: 0.258 WHO 2005 Tox: 0.291

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	391	377	0.497	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	424	338	0.554	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	563	385	0.769	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	*		2.50	563	385	0.905	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	563	385	0.862	
1,2,3,4,6,7,8-HpCDD	2.98e+05	1.06 y	44:11	1.35	19.2		2.50	-	-	*	
OCDD	1.22e+06	0.95 y	49:44	1.25	151		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	569	870	0.352	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	499	514	0.540	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	499	514	0.545	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	506	476	0.574	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	506	476	0.559	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	506	476	0.616	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	506	476	0.665	
1,2,3,4,6,7,8-HpCDF	9.11e+04	1.01 y	42:17	1.38	5.02	J	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	360	289	0.529	
OCDF	1.20e+05	0.85 y	50:05	0.74	12.1	J	2.50	-	-	*	
13C-2,3,7,8-TCDD	1.53e+07	0.85 y	27:23	0.93	999					103	
13C-1,2,3,7,8-PeCDD	1.54e+07	1.76 y	33:12	0.81	1150					119	
13C-1,2,3,4,7,8-HxCDD	1.11e+07	1.22 y	38:34	0.95	1020					105	
13C-1,2,3,6,7,8-HxCDD	1.06e+07	1.21 y	38:43	1.00	928					95.6	
13C-1,2,3,4,6,7,8-HpCDD	1.11e+07	1.04 y	44:09	0.92	1050					108	
13C-OCDD	1.25e+07	0.92 y	49:42	0.63	1720					88.6	
13C-2,3,7,8-TCDF	2.61e+07	0.86 y	26:38	0.87	1010					104	
13C-1,2,3,7,8-PeCDF	2.39e+07	1.68 y	31:27	0.81	997					103	
13C-2,3,4,7,8-PeCDF	2.31e+07	1.66 y	32:47	0.75	1030					106	
13C-1,2,3,4,7,8-HxCDF	2.34e+07	0.50 y	37:10	1.74	1170					121	
13C-1,2,3,6,7,8-HxCDF	2.70e+07	0.52 y	37:22	2.17	1080					112	
13C-2,3,4,6,7,8-HxCDF	2.28e+07	0.52 y	38:19	1.82	1090					112	
13C-1,2,3,7,8,9-HxCDF	2.10e+07	0.51 y	39:45	1.49	1230					127	
13C-1,2,3,4,6,7,8-HpCDF	1.28e+07	0.45 y	42:15	1.10	1010					104	
13C-1,2,3,4,7,8,9-HpCDF	1.14e+07	0.43 y	45:05	0.81	1220					125	
13C-OCDF	2.59e+07	0.98 y	50:05	1.19	1900					98.0	
37Cl-2,3,7,8-TCDD	6.54e+06		27:24	0.93	424					109	
13C-1,2,3,4-TCDD	1.61e+07	0.85 y	26:47	-	23.0						
13C-1,2,3,4-TCDF	2.89e+07	0.88 y	25:32	-	26.3						
13C-1,2,3,7,8,9-HxCDD	1.12e+07	1.20 y	39:11	-	25.1						
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	579	642	0.790	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	810	659	1.07	0
Total Hexa-Dioxins	1.09e+05		36:06	1.27	7.60	J	2.50	-	-	*	3
Total Hepta-Dioxins	5.71e+05		42:47	1.35	36.8		2.50	-	-	*	2
Total Tetra-Furans	1.04e+05		23:48	1.62	2.38	J	2.50	-	-	*	3
1st Fn. Tot Penta-Furans	6.53e+04		28:26	0.93	2.90	J	2.50	-	-	*	PeCDF 1
Total Penta-Furans	4.33e+04		30:13	0.93	1.93	J	2.50	-	-	*	4.83 1
Total Hexa-Furans	1.42e+05		35:15	0.90	6.49	J	2.50	-	-	*	3
Total Hepta-Furans	2.33e+05		42:17	1.48	12.7		2.50	-	-	*	2

Analyst: 

Date: 8/12/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 16 File: 11AUG10M S: 11 I: 1 F: 3
Acquired: 11-AUG-10 18:49:29

Total Concentration: 7.60

Unnamed Concentration: 7.602

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:06	2.01e+04	1.43e+04	1.41 y	3.44e+04	2.41	
37:04	1.33e+04	1.08e+04	1.23 y	2.41e+04	1.69	
37:30	2.91e+04	2.08e+04	1.40 y	5.00e+04	3.50	

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 16

File: 11AUG10M

S: 11 I: 1 F: 4

Acquired: 11-AUG-10 18:49:29

Total Concentration: 36.8

Unnamed Concentration: 17.614

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	1.40e+05	1.33e+05	1.05 y	2.73e+05	17.6	
44:11	1.53e+05	1.44e+05	1.06 y	2.98e+05	19.2	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 16

File: 11AUG10M

S: 11 I: 1 F: 1

Acquired: 11-AUG-10 18:49:29

Total Concentration: 2.38

Unnamed Concentration: 2.378

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:48	1.95e+04	2.67e+04	0.73 y	4.61e+04	1.06	
24:44	1.14e+04	1.67e+04	0.68 y	2.82e+04	0.646	
25:27	1.16e+04	1.77e+04	0.66 y	2.93e+04	0.672	

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

Run: 16 File: 11AUG10M S: 11 I: 1 F: 1
Acquired: 11-AUG-10 18:49:29

Total Concentration: 2.90 Unnamed Concentration: 2.901

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:26	3.73e+04	2.79e+04	1.34 y	6.53e+04	2.90	

Totals class: Total Penta-Furans

Entry #: 44

Run: 16

File: 11AUG10M

S: 11 I: 1 F: 2

Acquired: 11-AUG-10 18:49:29

Total Concentration: 1.93

Unnamed Concentration: 1.925

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:13	2.50e+04	1.84e+04	1.36 y	4.33e+04	1.93	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 16 File: 11AUG10M S: 11 I: 1 F: 3
Acquired: 11-AUG-10 18:49:29

Total Concentration: 6.49

Unnamed Concentration: 6.487

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:15	1.24e+04	1.16e+04	1.07 y	2.40e+04	1.10	
35:31	3.46e+04	3.03e+04	1.14 y	6.49e+04	2.96	
36:24	3.12e+04	2.22e+04	1.40 y	5.35e+04	2.44	

Totals class: Total Hepta-Furans

Entry #: 46

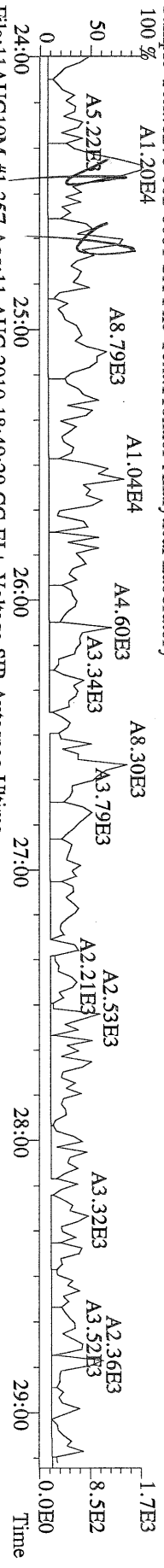
Run: 16 File: 11AUG10M S: 11 I: 1 F: 4
Acquired: 11-AUG-10 18:49:29

Total Concentration: 12.7

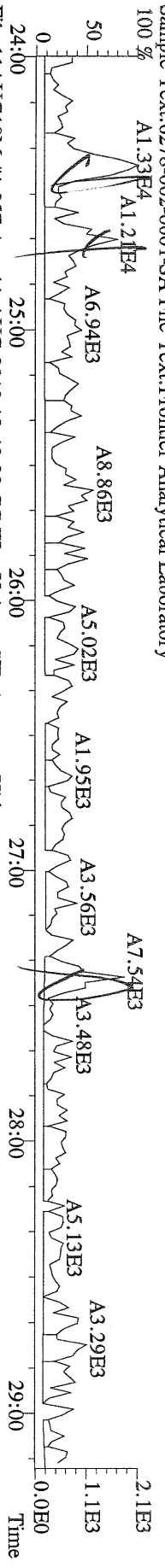
Unnamed Concentration: 7.694

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	4.59e+04	4.53e+04	1.01 y	9.11e+04	5.02	1,2,3,4,6,7,8-HpCDF
43:05	7.17e+04	7.03e+04	1.02 y	1.42e+05	7.69	

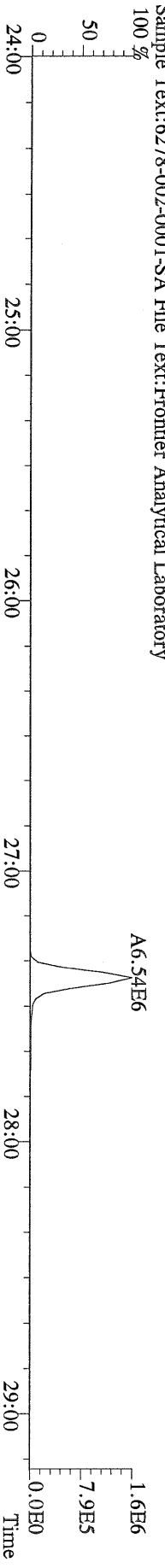
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319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



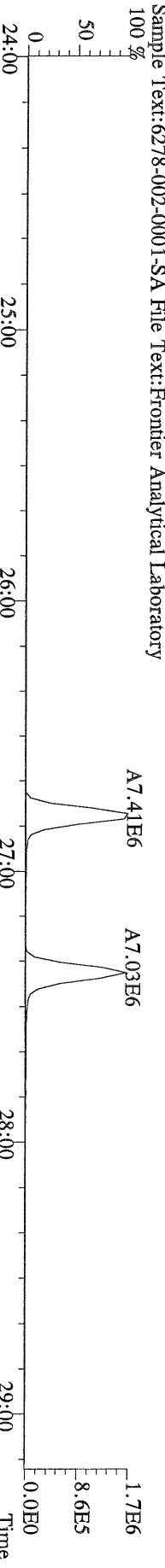
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321.8936 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



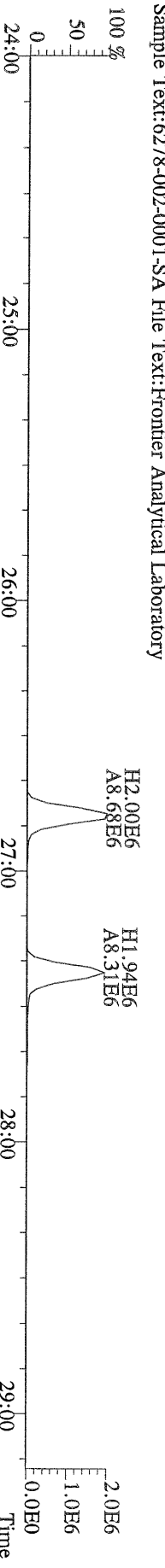
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327.8847 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



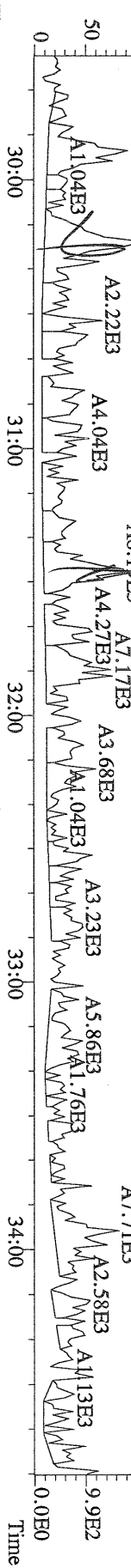
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331.9368 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



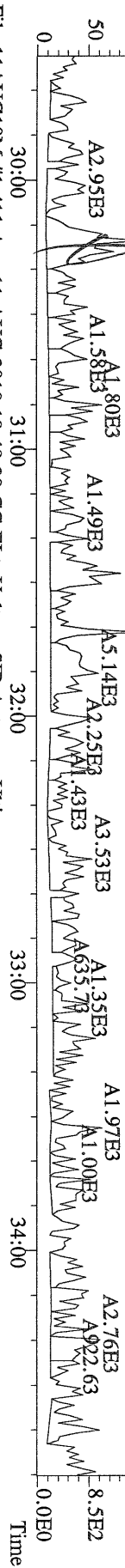
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333.9339 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



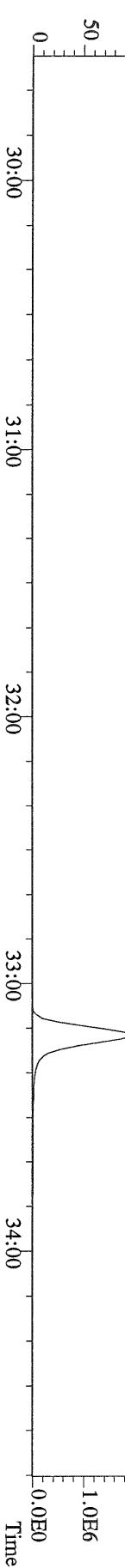
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 355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



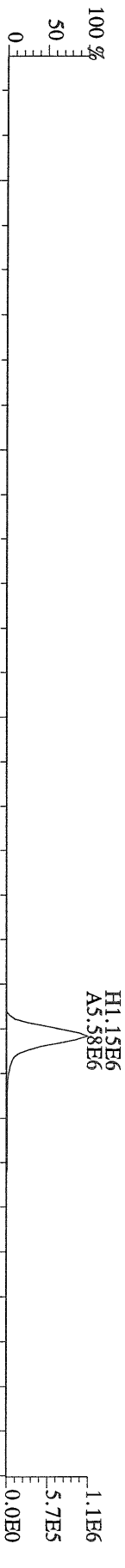
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 357.8517 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



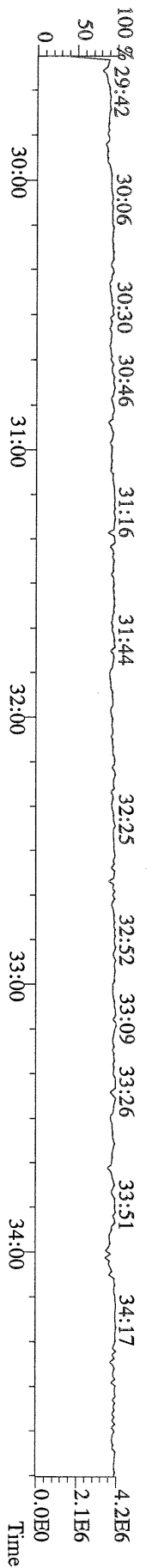
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 367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



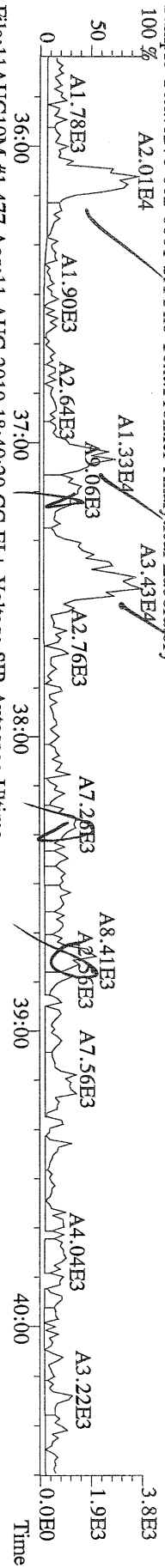
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 369.8919 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



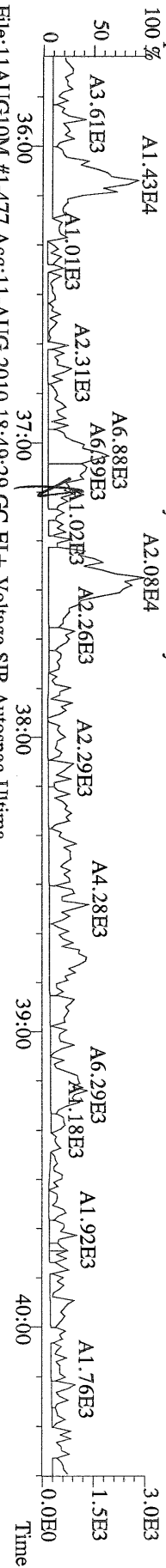
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 366.9792 S:11 F:2 Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



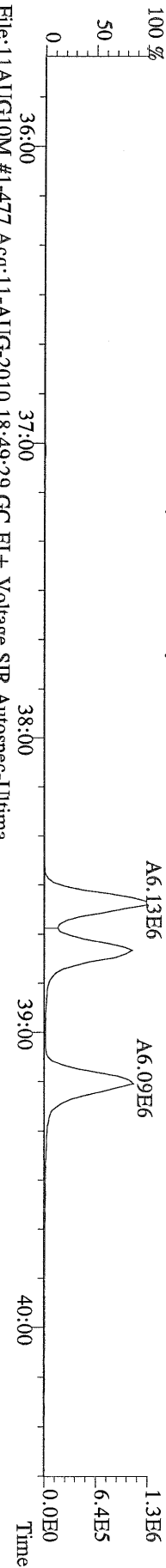
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



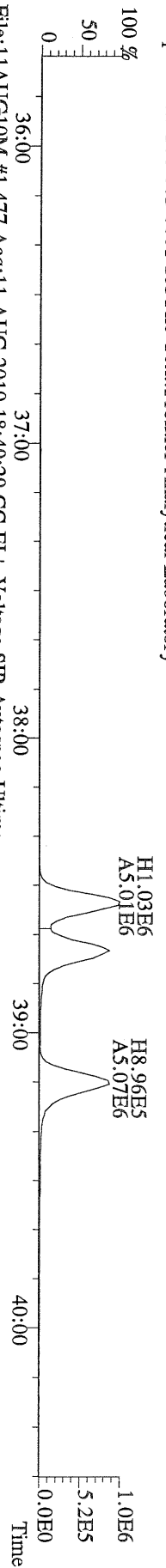
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 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



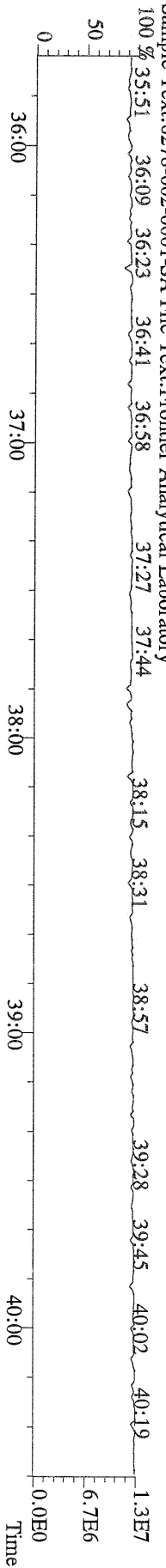
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 401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



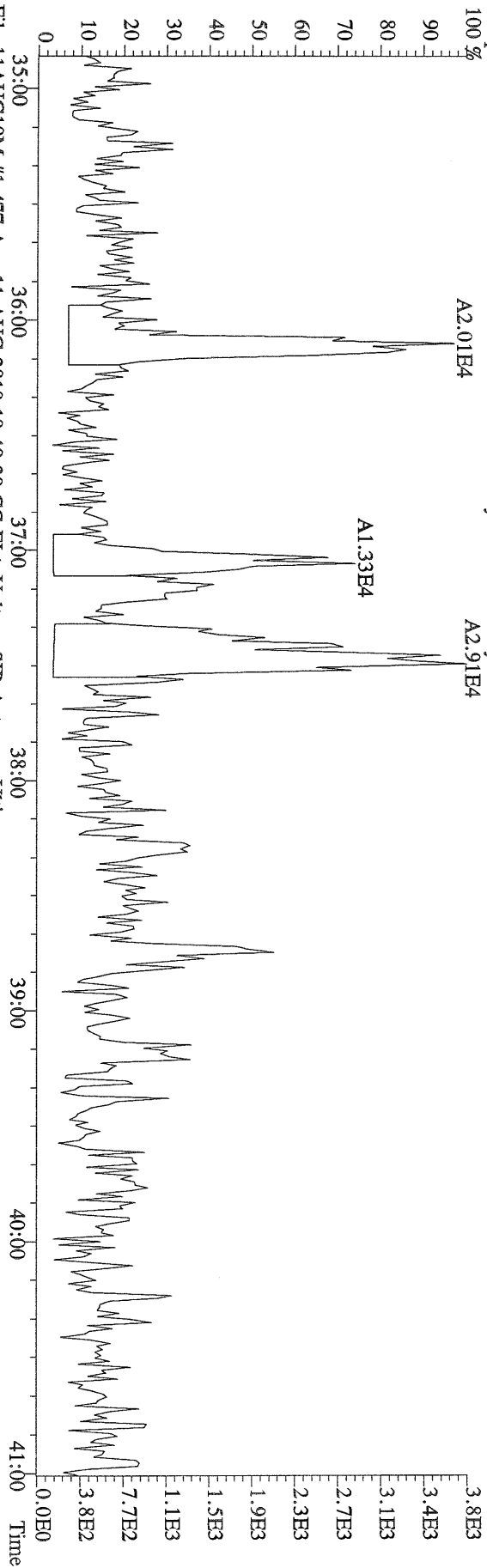
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 403.8530 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



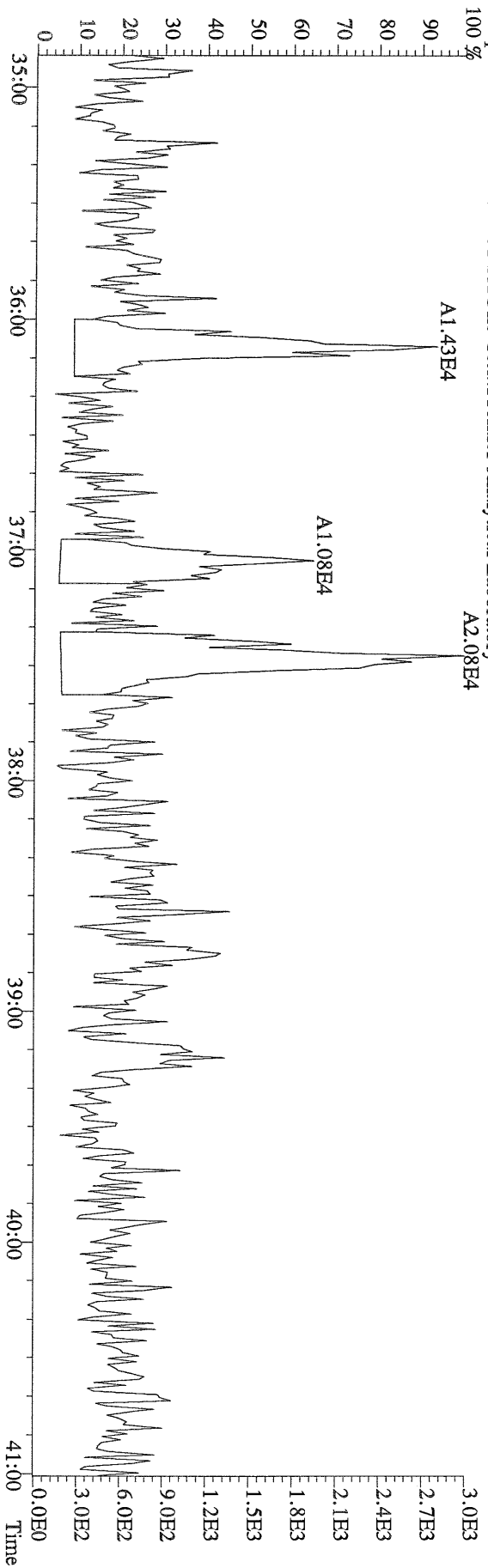
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:11 F:3 Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



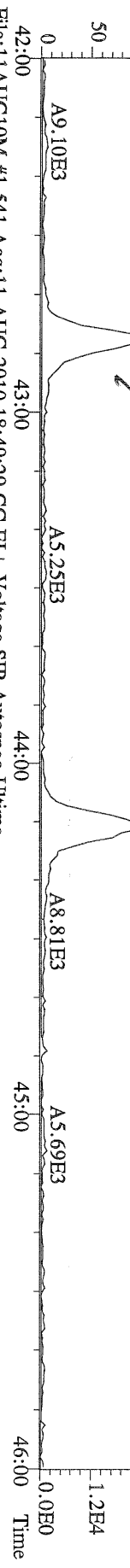
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



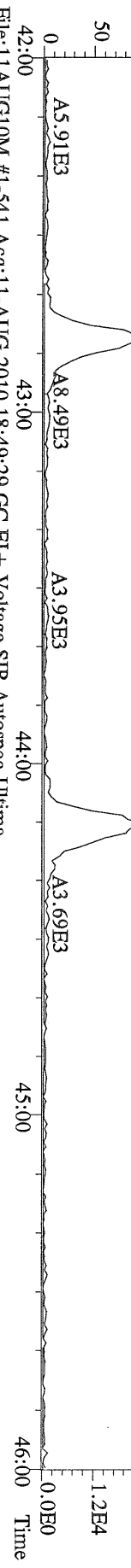
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391.8127 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



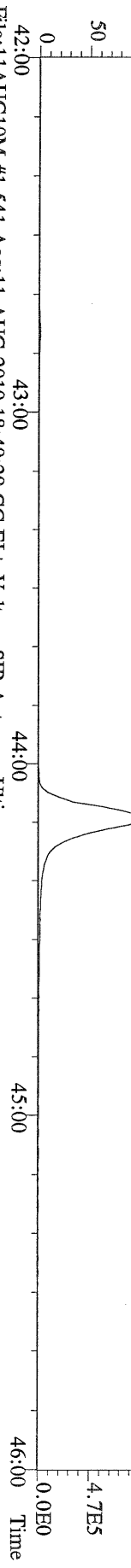
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultime
 423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
 100 %



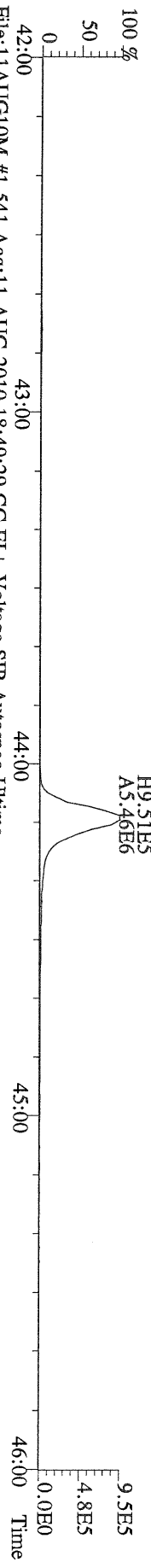
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultime
 425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
 100 %



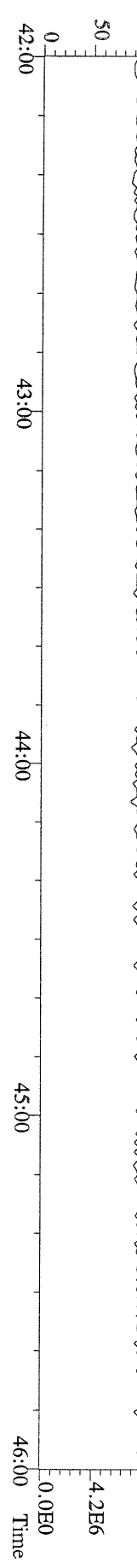
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultime
 435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
 100 %



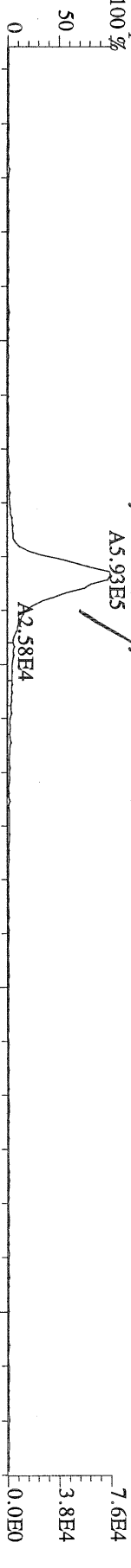
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultime
 437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



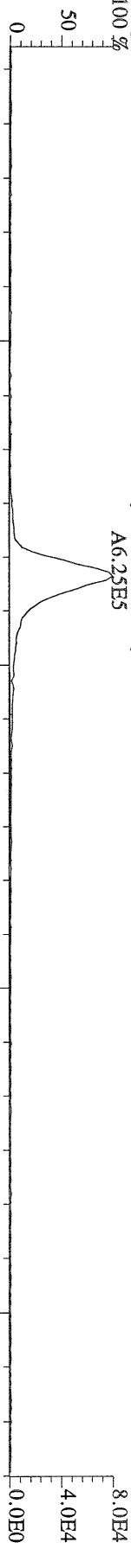
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultime
 430.9728 S:11 F:4 Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
 100 %



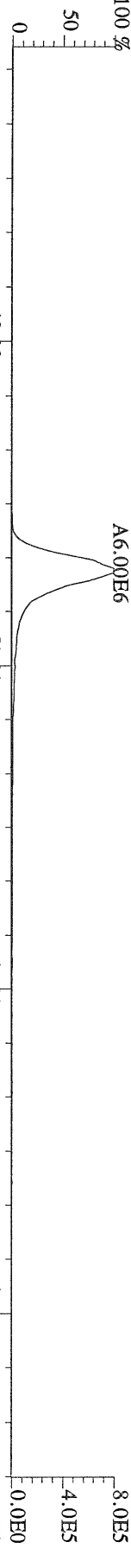
File:11AUG10M #1-347 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



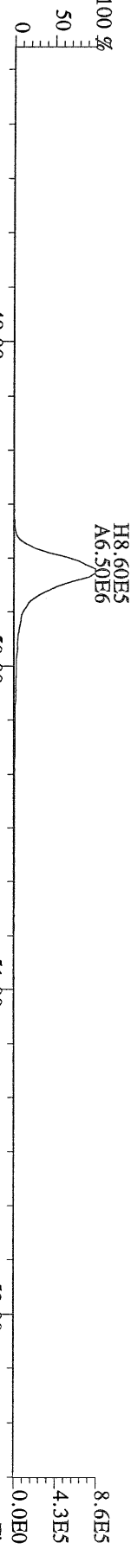
File:11AUG10M #1-347 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



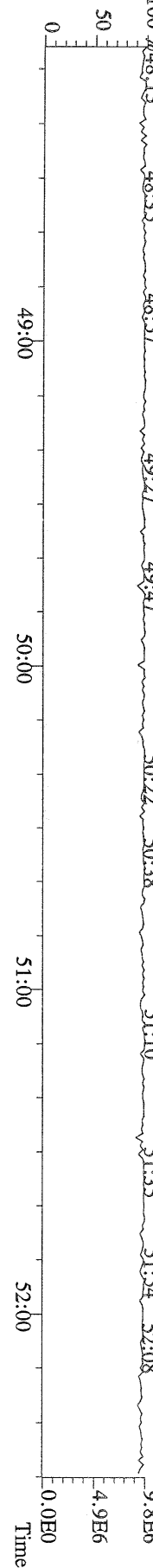
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469.7780 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



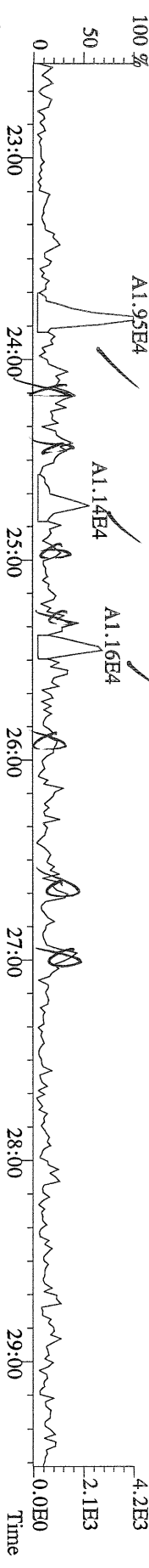
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471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



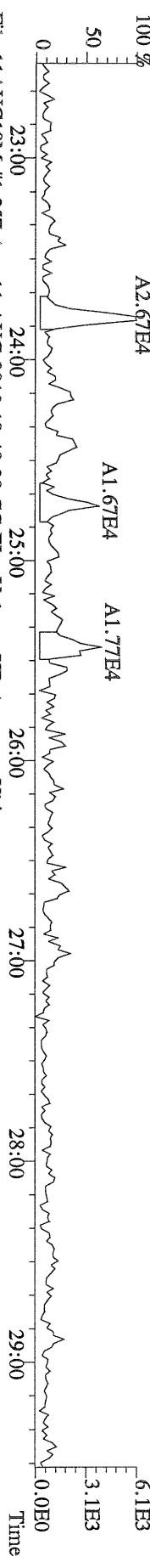
File:11AUG10M #1-347 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:11 F:5 Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
100 %



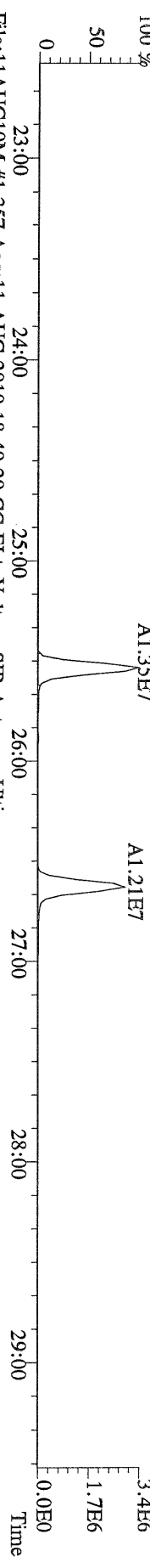
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



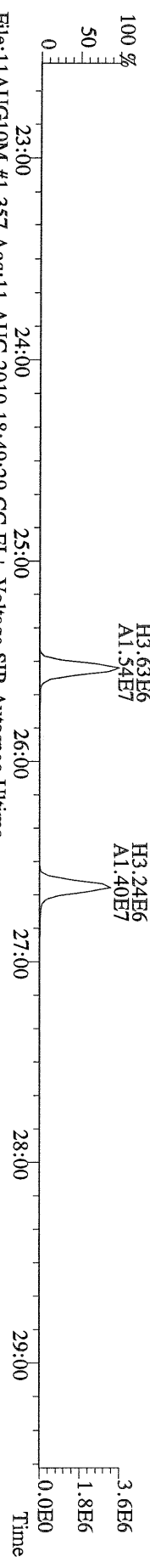
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



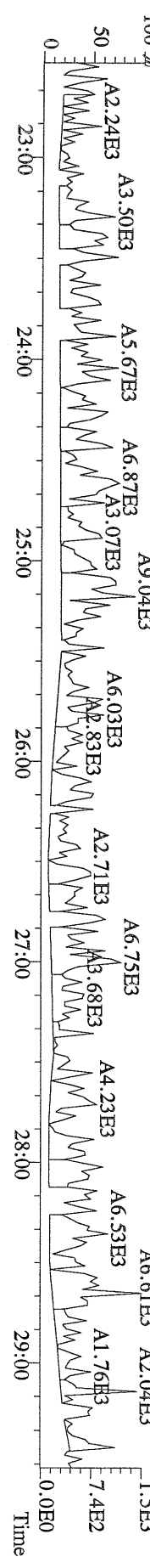
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



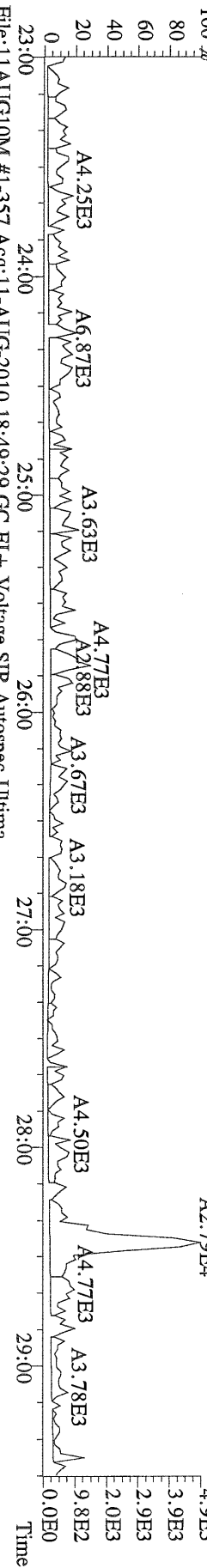
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



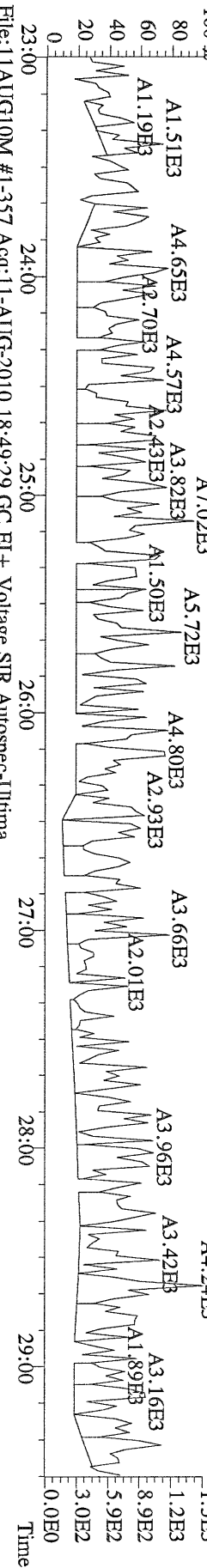
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ulhma
 339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



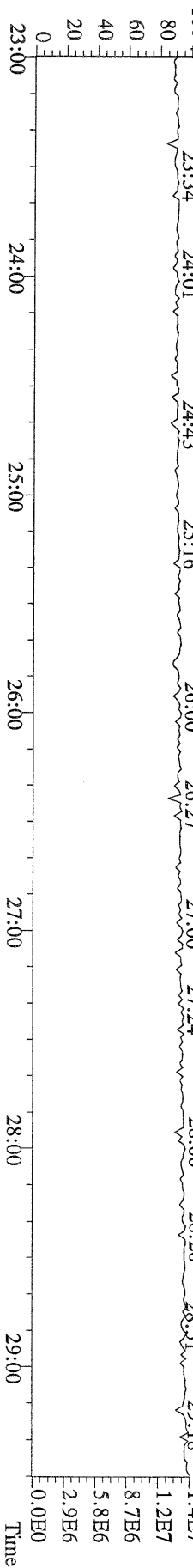
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ulhma
 341.8568 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



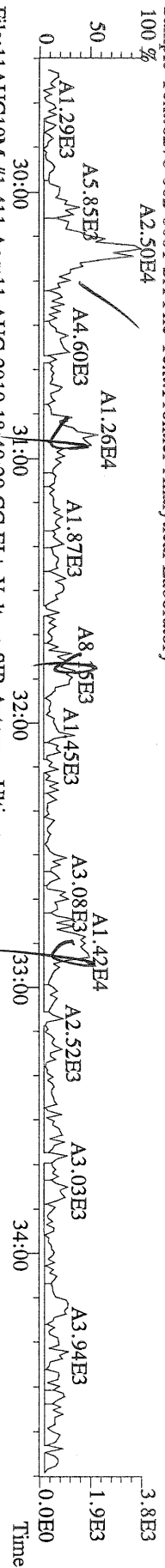
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ulhma
 409.7974 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



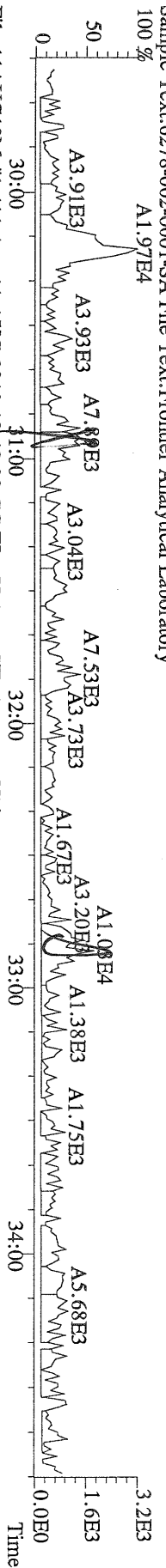
File:11AUG10M #1-357 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ulhma
 330.9792 S:11 Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



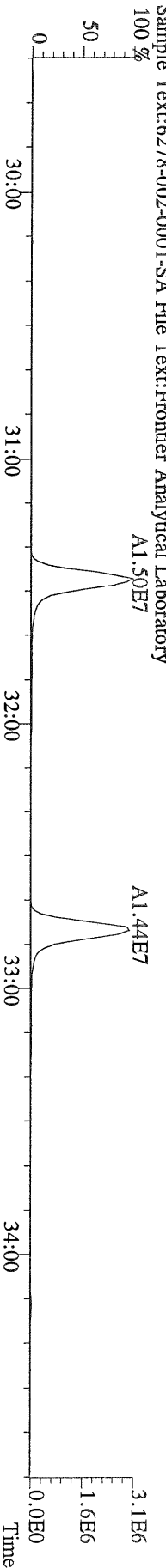
File:11AUG10M #1-411 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



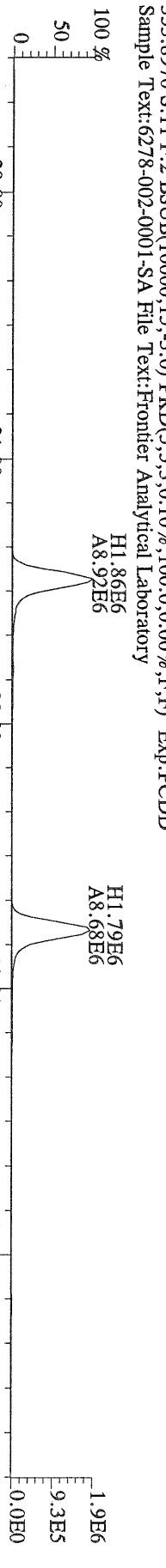
File:11AUG10M #1-411 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



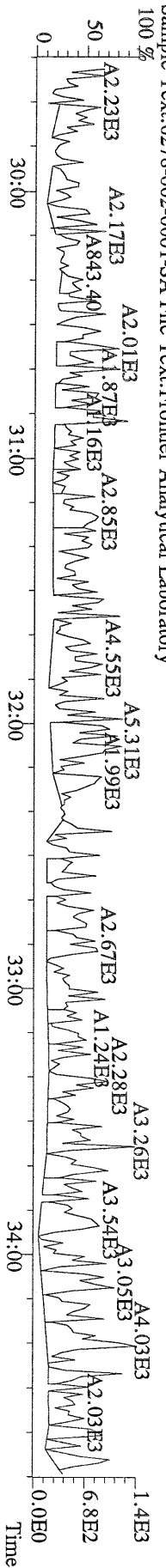
File:11AUG10M #1-411 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



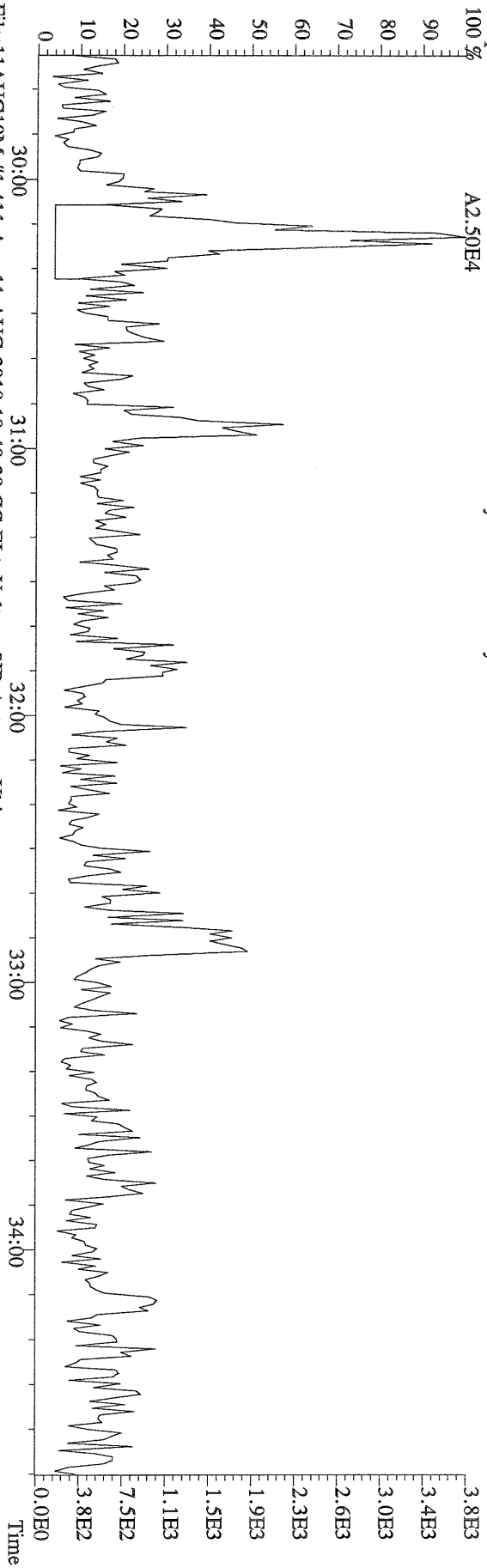
File:11AUG10M #1-411 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



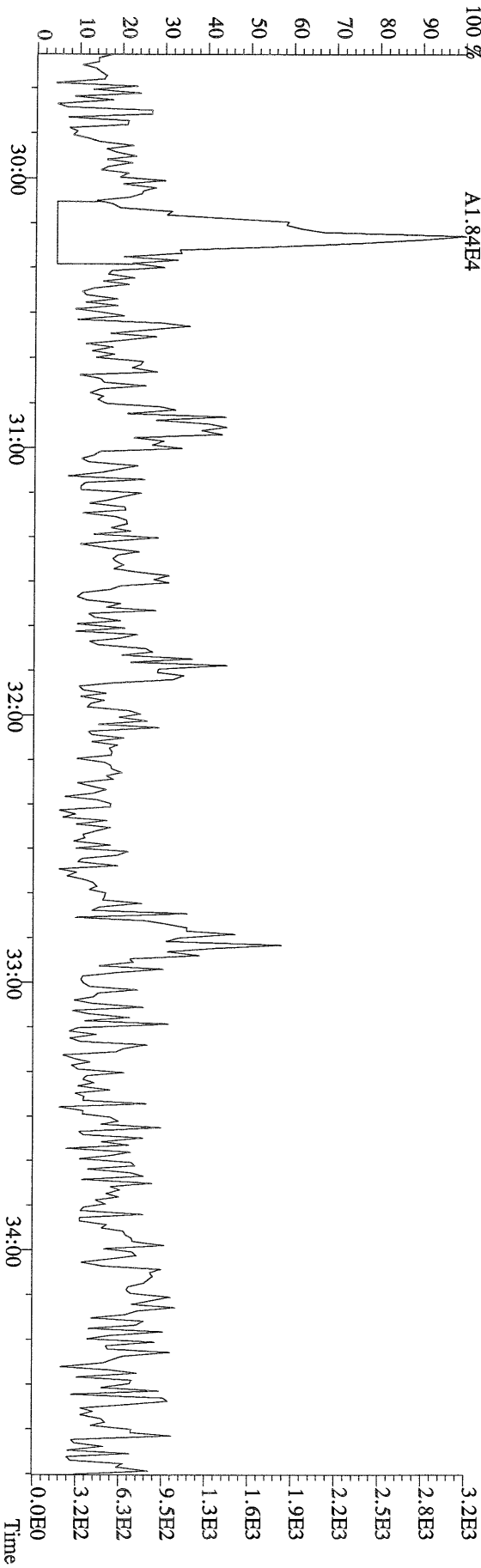
File:11AUG10M #1-411 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



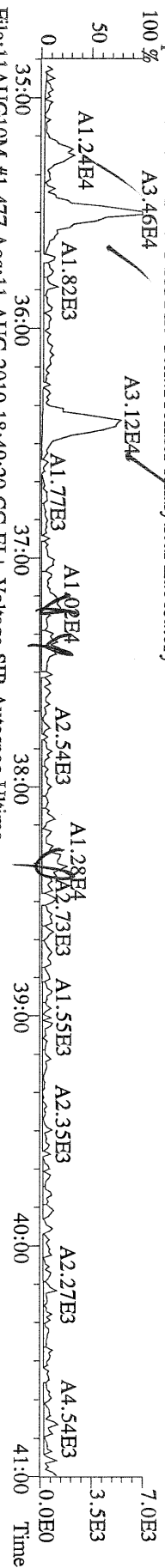
File:11AUG10M #1-411 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
100% A2.50E4



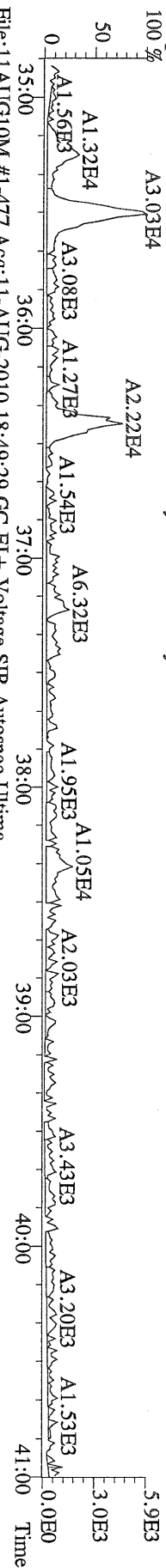
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341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory
100% A1.84E4



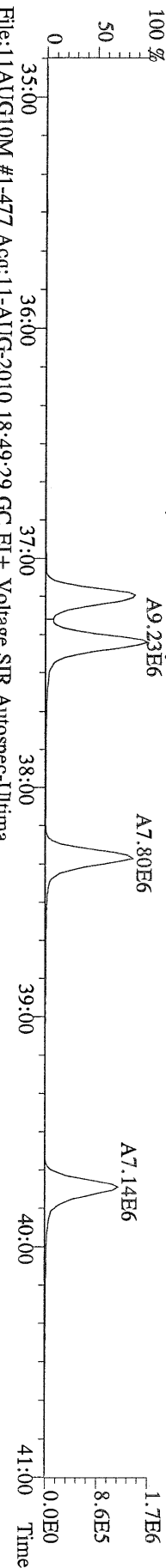
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



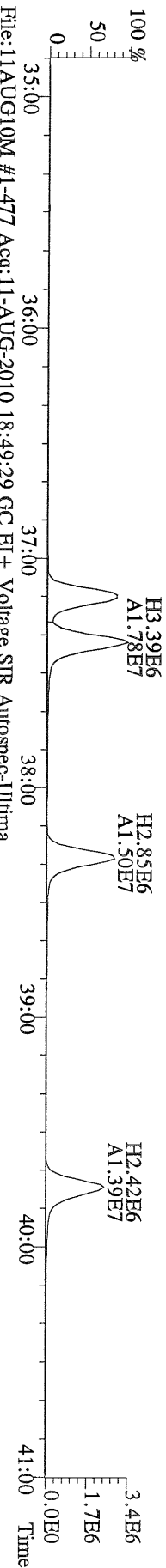
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



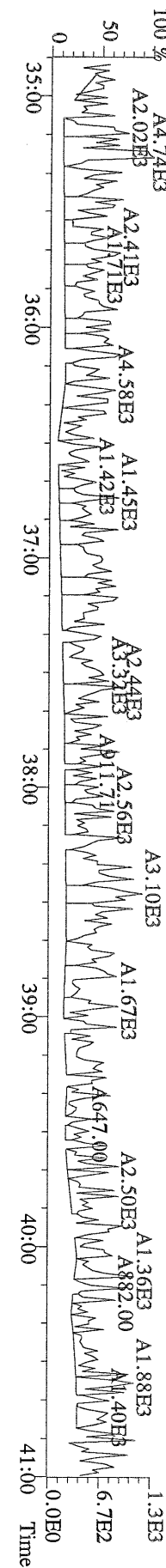
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



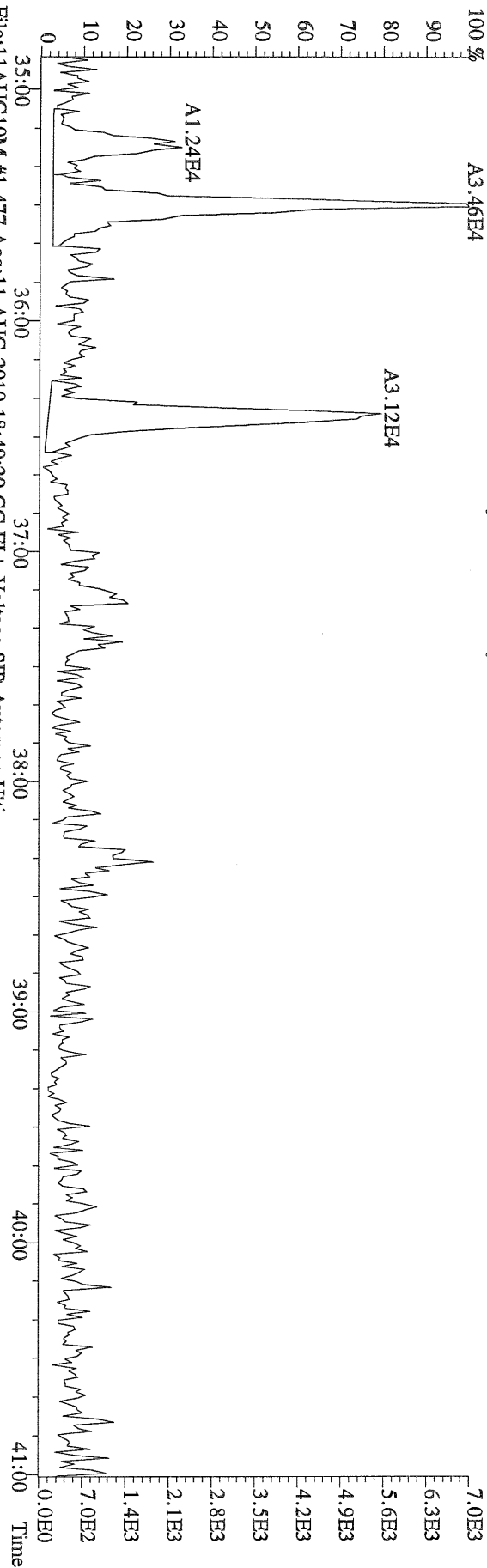
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



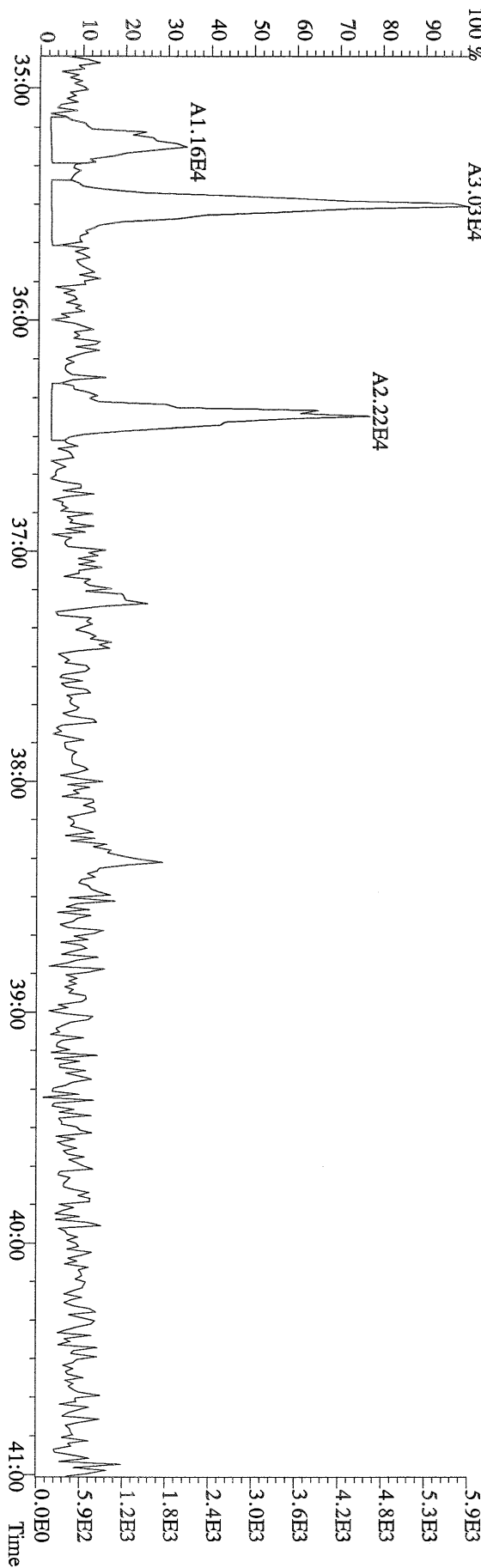
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



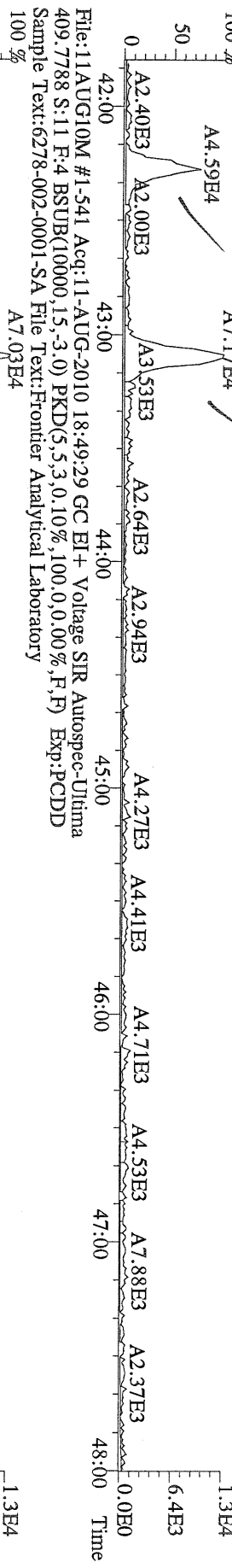
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



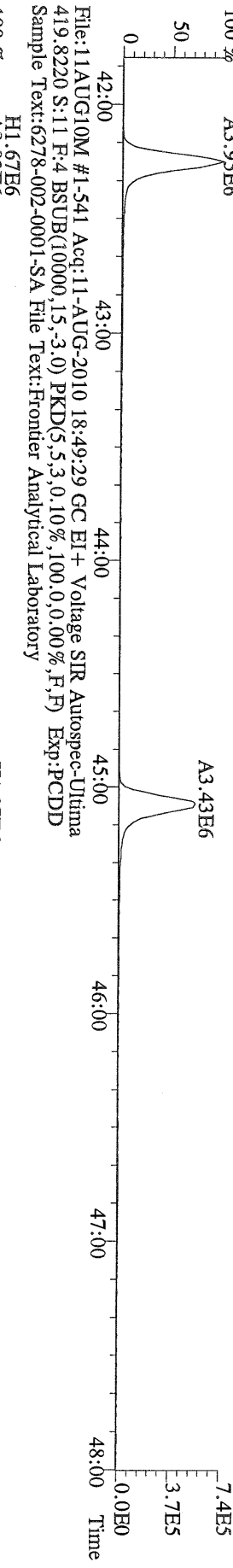
File:11AUG10M #1-477 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:11 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



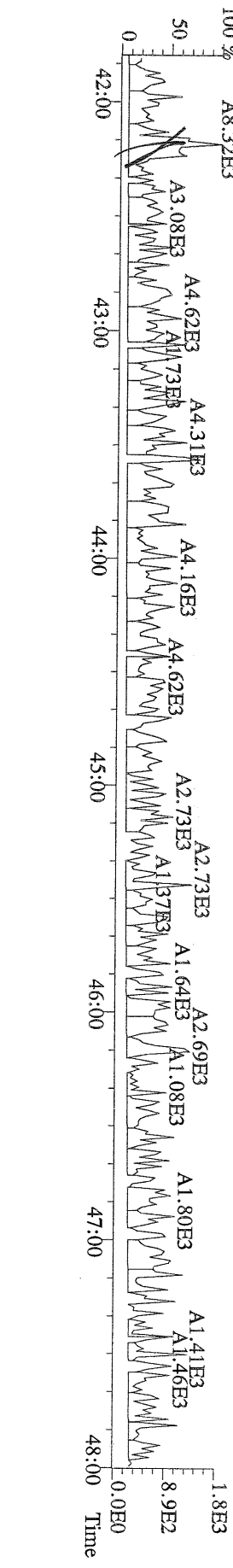
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



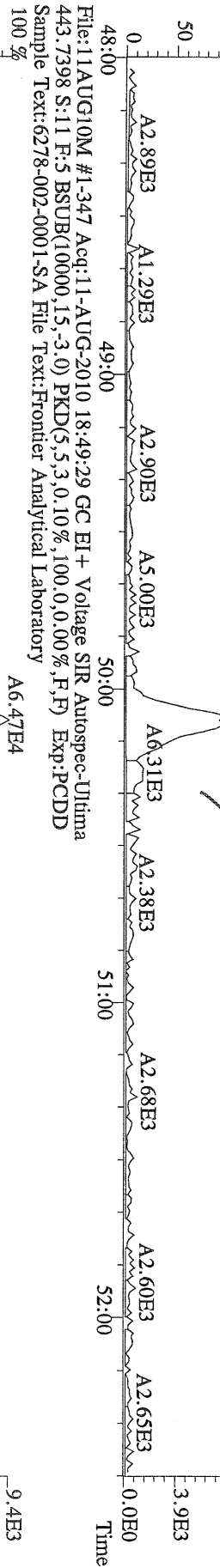
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



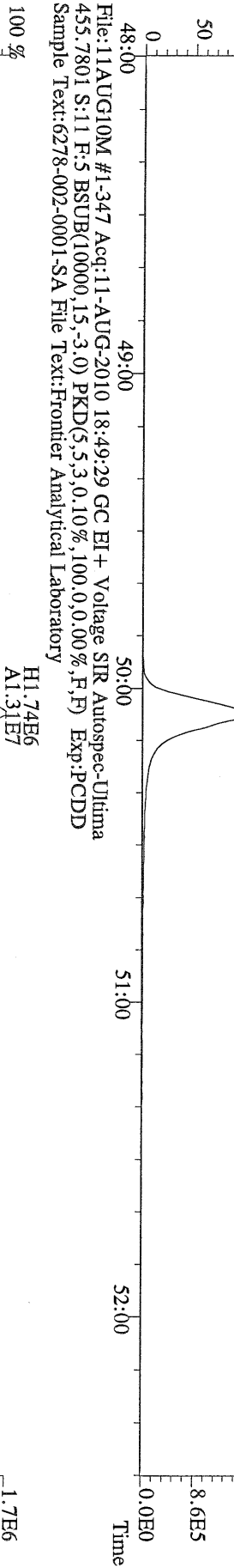
File:11AUG10M #1-541 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



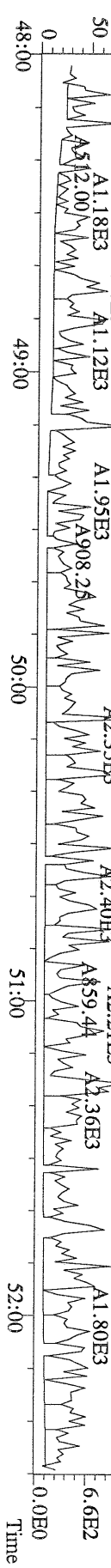
File:11AUG10M #1-347 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:11-AUG-2010 18:49:29 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-002-0001-SA File Text:Frontier Analytical Laboratory



NATO 1989 Tox: 7.40
 WHO 1998 Tox: 6.07 WHO 2005 Tox:

637
 6.56
 8/13/10

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	1.82e+04	0.69 y	27:24	1.04	1.73	J	2.50	-	-	*	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	602	447	1.27	
1,2,3,4,7,8-HxCDD	1.67e+04	1.25 y	38:35	1.30	1.91	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	6.10e+04	1.18 y	38:45	1.28	7.43	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	4.00e+04	1.33 y	39:13	1.25	4.87	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.74e+06	1.01 y	44:11	1.35	170		2.50	-	-	*	
OCDD	8.15e+06	0.99 y	49:44	1.25	1400		2.50	-	-	*	
2,3,7,8-TCDF	4.59e+04	0.79 y	26:39	1.62	1.54	J	2.50	-	-	*	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	645	597	1.04	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	645	597	1.07	
1,2,3,4,7,8-HxCDF	3.86e+04	1.25 y	37:11	0.93	2.40	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	2.42e+04	1.27 y	37:23	0.84	1.50	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	3.21e+04	1.33 y	38:21	0.90	2.16	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	339	401	0.716	
1,2,3,4,6,7,8-HpCDF	3.75e+05	1.11 y	42:16	1.38	29.0		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	2.64e+04	1.01 y	45:07	1.62	1.88	J	2.50	-	-	*	
OCDF	6.38e+05	0.88 y	50:06	0.74	86.5		2.50	-	-	*	
13C-2,3,7,8-TCDD	9.78e+06	0.84 y	27:22	0.93	908					94.4	
13C-1,2,3,7,8-PeCDD	9.29e+06	1.74 y	33:12	0.81	990					103	
13C-1,2,3,4,7,8-HxCDD	6.47e+06	1.20 y	38:34	0.95	844					87.8	
13C-1,2,3,6,7,8-HxCDD	6.19e+06	1.23 y	38:44	1.00	767					79.7	
13C-1,2,3,4,6,7,8-HpCDD	7.28e+06	0.99 y	44:09	0.92	976					101	
13C-OCDD	8.97e+06	0.94 y	49:42	0.63	1750					91.0	
13C-2,3,7,8-TCDF	1.77e+07	0.85 y	26:38	0.87	954					99.3	
13C-1,2,3,7,8-PeCDF	1.52e+07	1.68 y	31:28	0.81	883					91.8	
13C-2,3,4,7,8-PeCDF	1.45e+07	1.65 y	32:47	0.75	902					93.8	
13C-1,2,3,4,7,8-HxCDF	1.66e+07	0.53 y	37:10	1.74	1180					123	
13C-1,2,3,6,7,8-HxCDF	1.86e+07	0.52 y	37:23	2.17	1060					110	
13C-2,3,4,6,7,8-HxCDF	1.59e+07	0.52 y	38:18	1.82	1080					112	
13C-1,2,3,7,8,9-HxCDF	1.46e+07	0.52 y	39:44	1.49	1210					126	
13C-1,2,3,4,6,7,8-HpCDF	8.99e+06	0.44 y	42:16	1.10	1010					105	
13C-1,2,3,4,7,8,9-HpCDF	8.32e+06	0.43 y	45:04	0.81	1260					131	
13C-OCDF	1.91e+07	0.99 y	50:05	1.19	1990					104	
37Cl-2,3,7,8-TCDD	4.09e+06		27:24	0.93	378					98.3	
13C-1,2,3,4-TCDD	1.12e+07	0.86 y	26:48	-	15.8						
13C-1,2,3,4-TCDF	2.05e+07	0.87 y	25:32	-	18.5						
13C-1,2,3,7,8,9-HxCDD	7.80e+06	1.21 y	39:11	-	17.4						
Total Tetra-Dioxins	1.27e+05		24:24	1.04	12.1		2.50	-	-	*	3
Total Penta-Dioxins	1.17e+05		30:13	1.05	11.5	J	2.50	-	-	*	3
Total Hexa-Dioxins	4.57e+05		36:06	1.27	54.6		2.50	-	-	*	6
Total Hepta-Dioxins	3.06e+06		42:47	1.35	298		2.50	-	-	*	2
Total Tetra-Furans	7.54e+05		23:25	1.62	25.4		2.50	-	-	*	15
1st Fn. Tot Penta-Furans	8.51e+04		28:26	0.93	5.94		2.50	-	-	*	PeCDF 1
Total Penta-Furans	1.59e+05		30:03	0.93	11.1		2.50	-	-	*	17.0 3
Total Hexa-Furans	4.98e+05		35:13	0.90	32.1		2.50	-	-	*	6
Total Hepta-Furans	1.04e+06		42:16	1.48	78.7		2.50	-	-	*	3

Analyst: 

Date: 8/13/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 26

File: 11AUG10M

S: 23 I: 1 F: 1

Acquired: 12-AUG-10 05:53:33

Total Concentration: 12.1

Unnamed Concentration: 10.359

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:24	2.94e+04	3.43e+04	0.86 y	6.37e+04	6.05	
24:40	2.04e+04	2.50e+04	0.82 y	4.54e+04	4.31	
27:24	7.41e+03	1.08e+04	0.69 y	1.82e+04	1.73	2,3,7,8-TCDD

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 26

File: 11AUG10M

S: 23 I: 1 F: 2

Acquired: 12-AUG-10 05:53:33

Total Concentration: 11.5

Unnamed Concentration: 11.534

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:13	2.88e+04	1.91e+04	1.50 y	4.79e+04	4.73	
31:28	2.33e+04	1.36e+04	1.71 y	3.69e+04	3.65	
31:49	2.02e+04	1.18e+04	1.72 y	3.19e+04	3.16	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 26 File: 11AUG10M S: 23 I: 1 F: 3
Acquired: 12-AUG-10 05:53:33

Total Concentration: 54.6

Unnamed Concentration: 40.384

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:06	4.90e+04	3.46e+04	1.42 y	8.35e+04	9.95	
37:02	4.88e+04	4.04e+04	1.21 y	8.93e+04	10.6	
37:29	9.67e+04	6.93e+04	1.40 y	1.66e+05	19.8	
38:35	9.26e+03	7.42e+03	1.25 y	1.67e+04	1.91	1,2,3,4,7,8-HxCDD
38:45	3.31e+04	2.80e+04	1.18 y	6.10e+04	7.43	1,2,3,6,7,8-HxCDD
39:13	2.28e+04	1.71e+04	1.33 y	4.00e+04	4.87	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 26

File: 11AUG10M

S: 23 I: 1 F: 4

Acquired: 12-AUG-10 05:53:33

Total Concentration: 298

Unnamed Concentration: 127.842

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	6.60e+05	6.52e+05	1.01 y	1.31e+06	128	
44:11	8.76e+05	8.69e+05	1.01 y	1.74e+06	170	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 26 File: 11AUG10M S: 23 I: 1 F: 1
Acquired: 12-AUG-10 05:53:33

Total Concentration: 25.4

Unnamed Concentration: 23.812

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:25	8.84e+03	1.11e+04	0.80 y	1.99e+04	0.671	
23:47	3.96e+04	6.04e+04	0.66 y	1.00e+05	3.36	
24:11	3.45e+04	5.20e+04	0.66 y	8.65e+04	2.91	
24:28	2.71e+04	3.80e+04	0.71 y	6.51e+04	2.19	
24:44	2.50e+04	3.71e+04	0.67 y	6.22e+04	2.09	
24:58	1.32e+04	1.56e+04	0.84 y	2.89e+04	0.970	
25:20	2.18e+04	2.96e+04	0.74 y	5.14e+04	1.73	
25:26	2.67e+04	3.70e+04	0.72 y	6.37e+04	2.14	
25:32	1.74e+04	2.40e+04	0.72 y	4.15e+04	1.39	
25:54	1.93e+04	2.54e+04	0.76 y	4.48e+04	1.50	
26:08	8.74e+03	1.22e+04	0.72 y	2.10e+04	0.705	
26:18	7.89e+03	1.13e+04	0.70 y	1.92e+04	0.647	
26:33	1.60e+04	2.42e+04	0.66 y	4.02e+04	1.35	
26:39	2.02e+04	2.57e+04	0.79 y	4.59e+04	1.54	2,3,7,8-TCDF
26:59	2.82e+04	3.57e+04	0.79 y	6.39e+04	2.15	

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

Run: 26 File: 11AUG10M S: 23 I: 1 F: 1
Acquired: 12-AUG-10 05:53:33

Total Concentration: 5.94 Unnamed Concentration: 5.936

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:26	5.06e+04	3.45e+04	1.47 y	8.51e+04	5.94	

Totals class: Total Penta-Furans

Entry #: 44

Run: 26

File: 11AUG10M

S: 23 I: 1 F: 2

Acquired: 12-AUG-10 05:53:33

Total Concentration: 11.1

Unnamed Concentration: 11.086

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:03	1.92e+04	1.31e+04	1.47 y	3.23e+04	2.25	
30:13	5.45e+04	3.64e+04	1.50 y	9.09e+04	6.34	
30:54	2.07e+04	1.50e+04	1.38 y	3.58e+04	2.49	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 26

File: 11AUG10M

S: 23 I: 1 F: 3

Acquired: 12-AUG-10 05:53:33

Total Concentration: 32.1

Unnamed Concentration: 26.072

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:13	2.86e+04	2.55e+04	1.12 y	5.42e+04	3.50	
35:30	9.19e+04	7.95e+04	1.16 y	1.71e+05	11.1	
36:25	9.84e+04	7.91e+04	1.24 y	1.78e+05	11.5	
37:11	2.15e+04	1.71e+04	1.25 y	3.86e+04	2.40	1,2,3,4,7,8-HxCDF
37:23	1.35e+04	1.07e+04	1.27 y	2.42e+04	1.50	1,2,3,6,7,8-HxCDF
38:21	1.83e+04	1.37e+04	1.33 y	3.21e+04	2.16	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 26 File: 11AUG10M
Acquired: 12-AUG-10 05:53:33

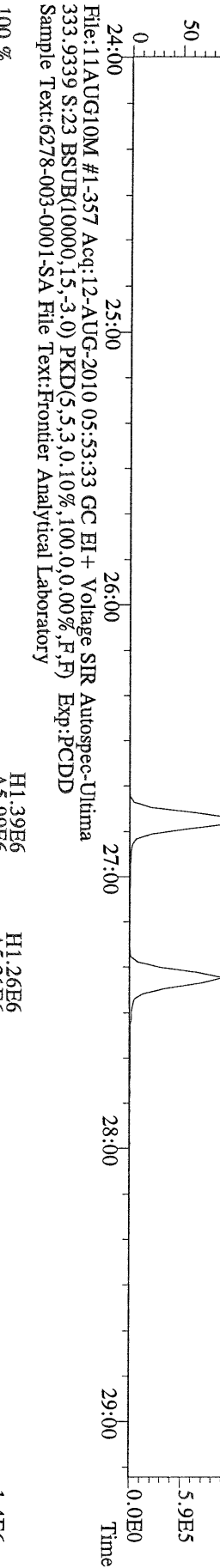
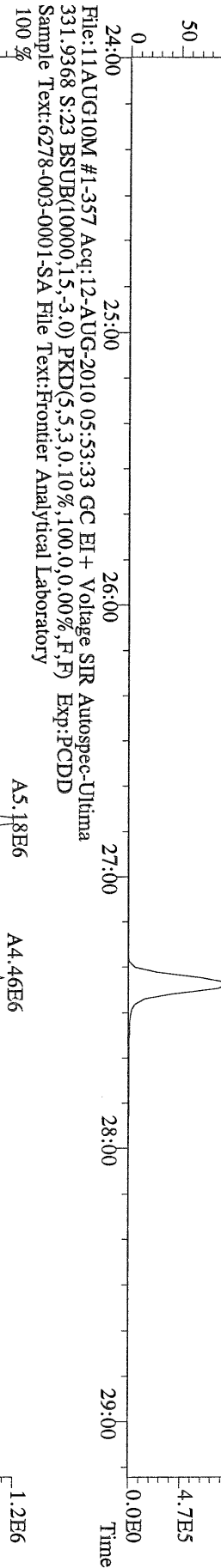
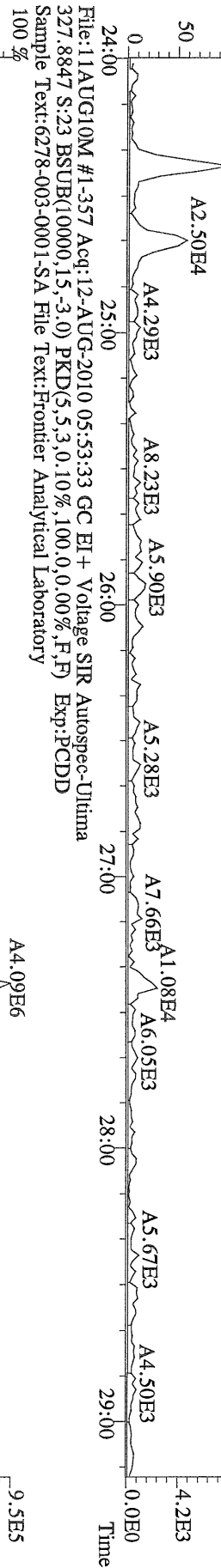
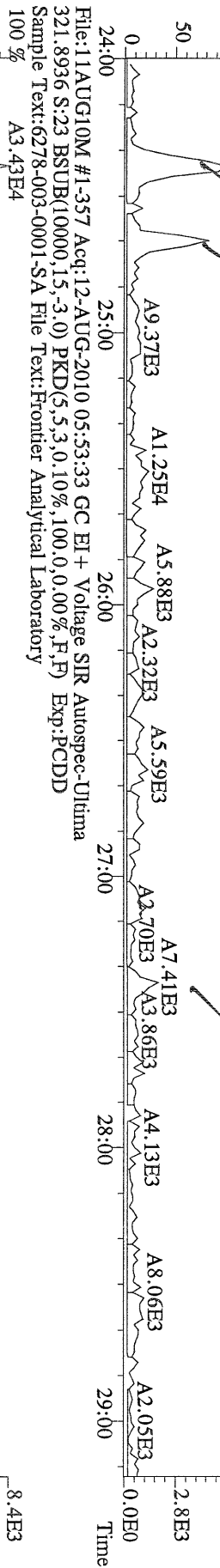
S: 23 I: 1 F: 4

Total Concentration: 78.7

Unnamed Concentration: 47.851

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	1.97e+05	1.77e+05	1.11 y	3.75e+05	29.0	1,2,3,4,6,7,8-HpCDF
43:05	3.26e+05	3.13e+05	1.04 y	6.39e+05	47.9	
45:07	1.32e+04	1.31e+04	1.01 y	2.64e+04	1.88	1,2,3,4,7,8,9-HpCDF

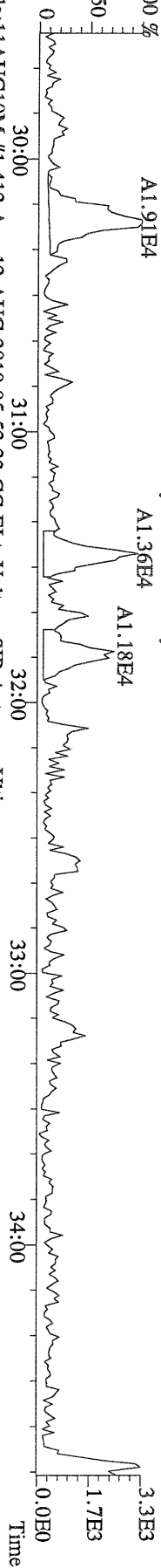
File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI + Voltage SIR Autospec-Ultima
 319.8965 S:23 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory
 100 %



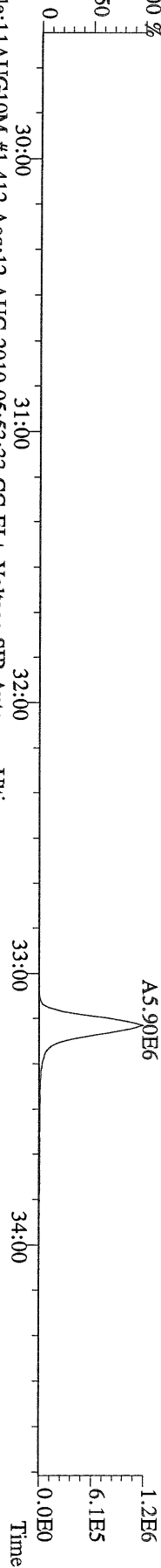
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



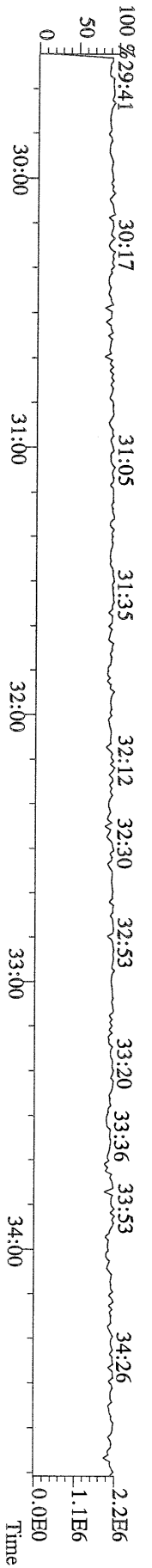
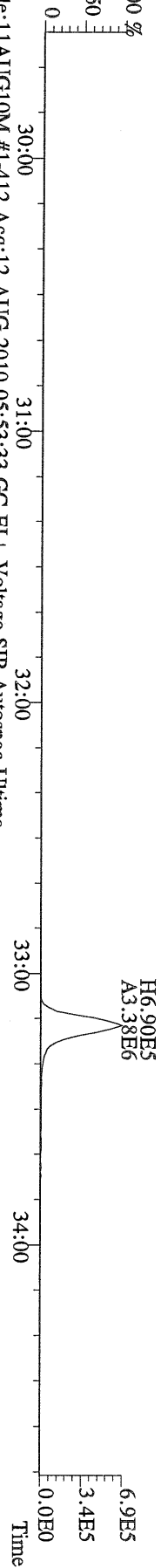
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 357.8517 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



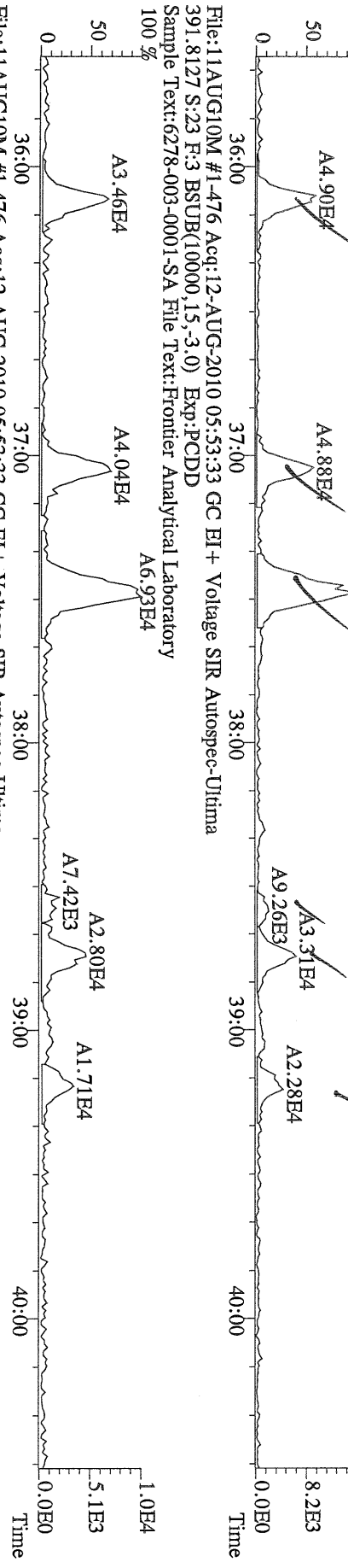
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



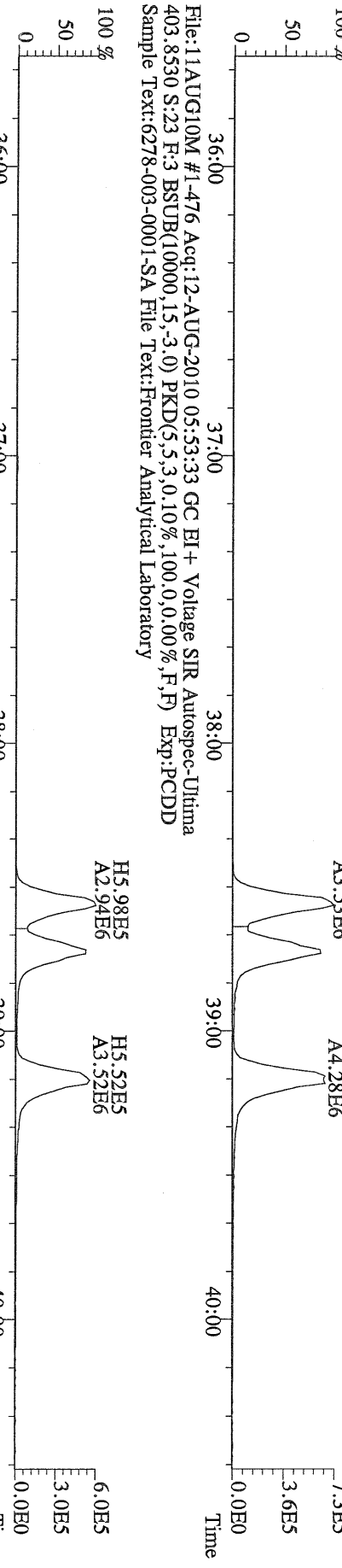
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:23 F:2 Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



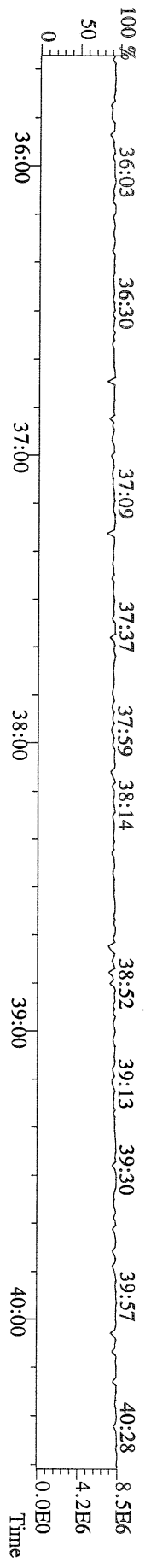
File:11AUG10M #1-476 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:23 F:3 BSUB(10000,15,-3,0) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



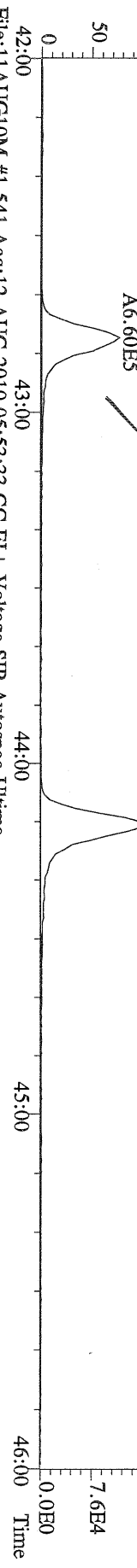
File:11AUG10M #1-476 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:23 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



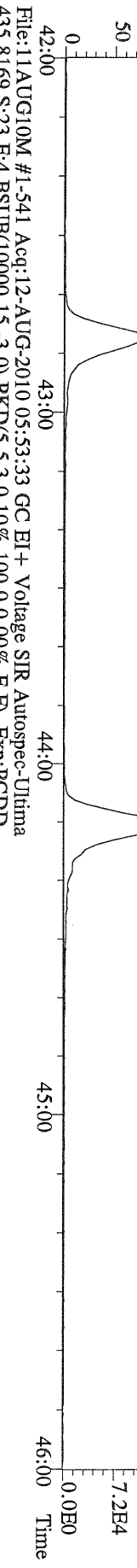
File:11AUG10M #1-476 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 LOCK MASS CHECK S:23 F:3 Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



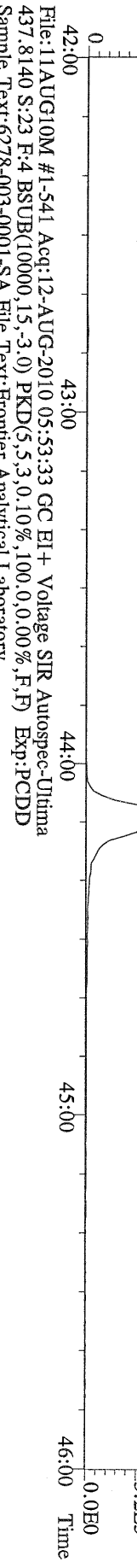
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



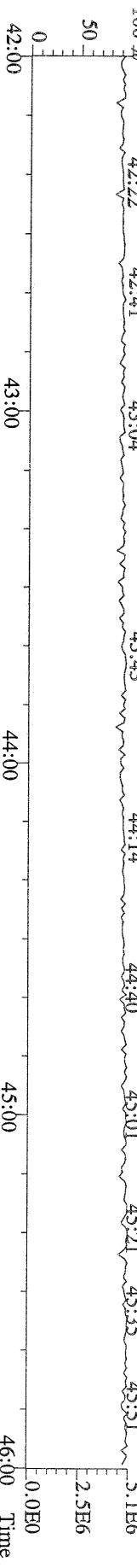
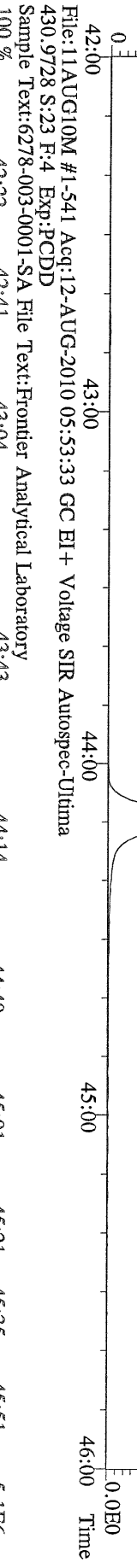
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



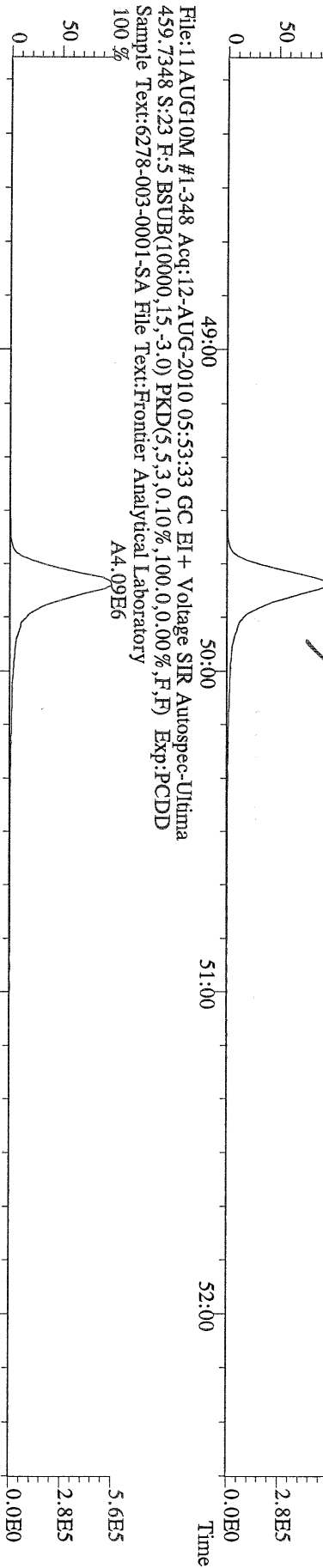
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



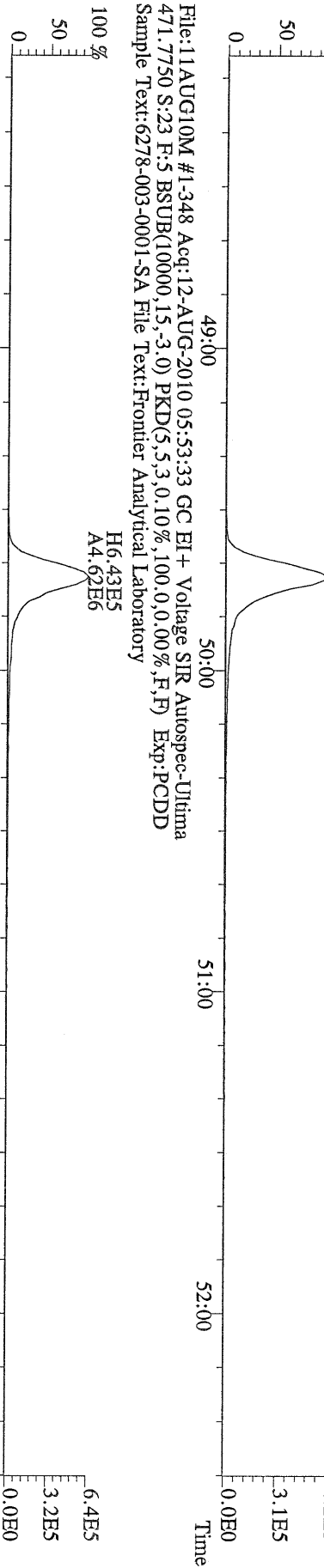
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



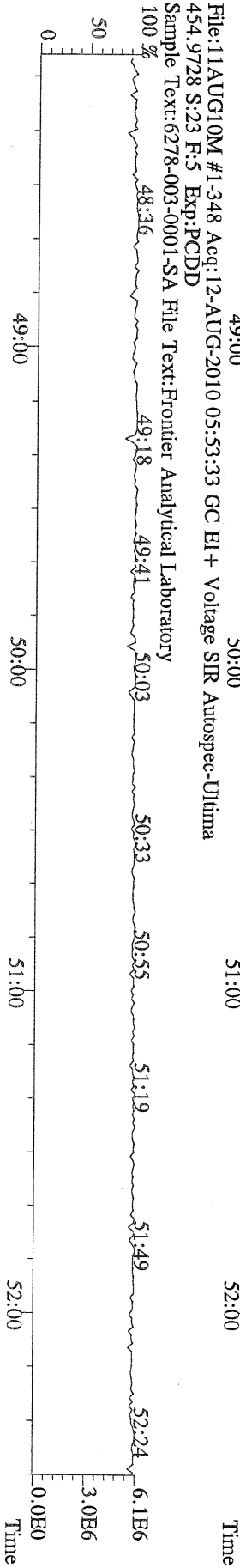
File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory

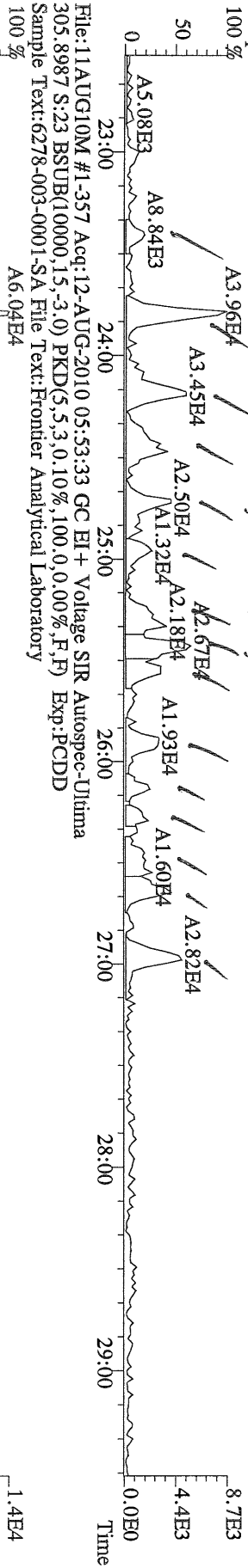


File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory

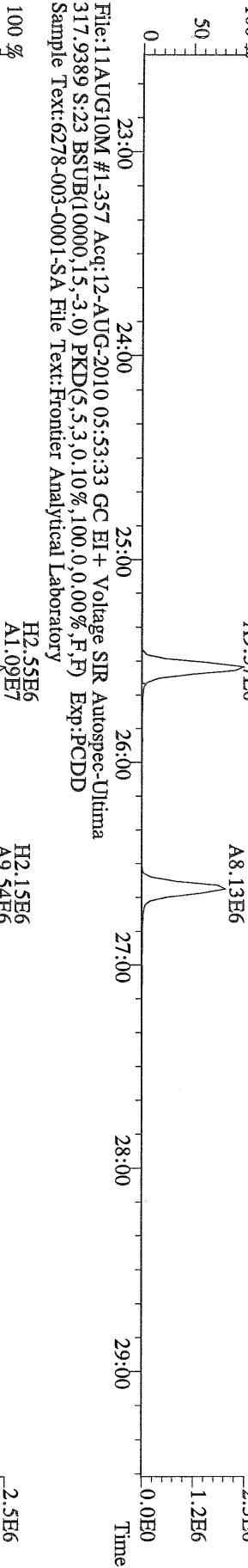


File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:23 F:5 Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory

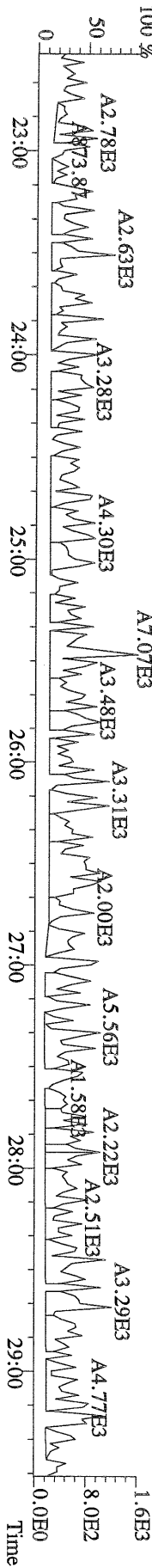
File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:23 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:23 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



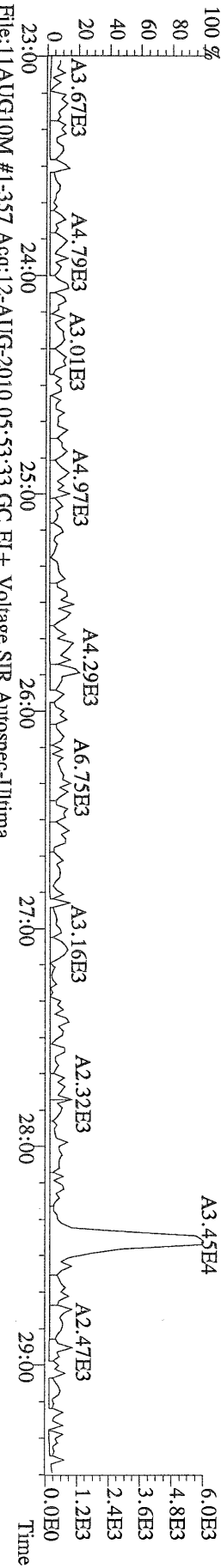
File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:23 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



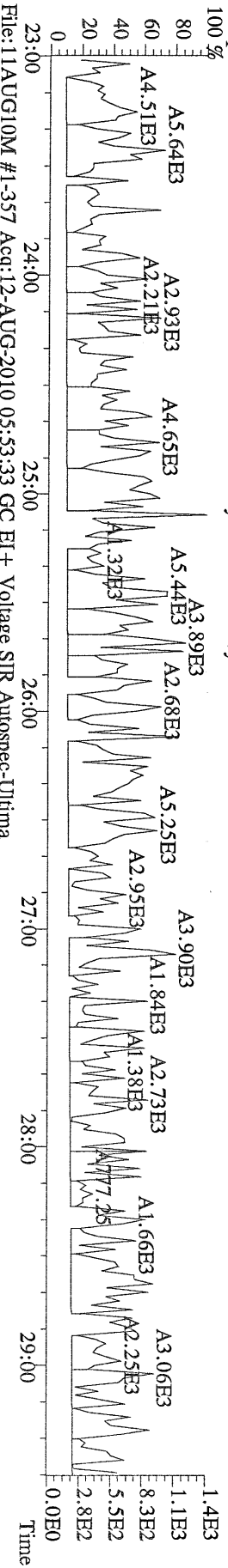
File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:23 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



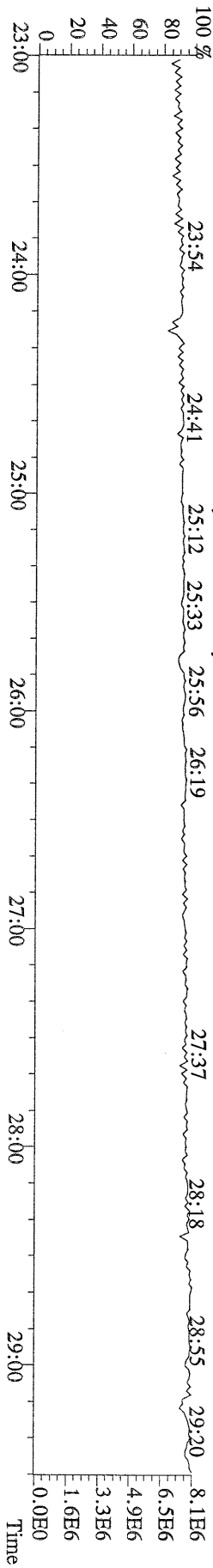
File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:23 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



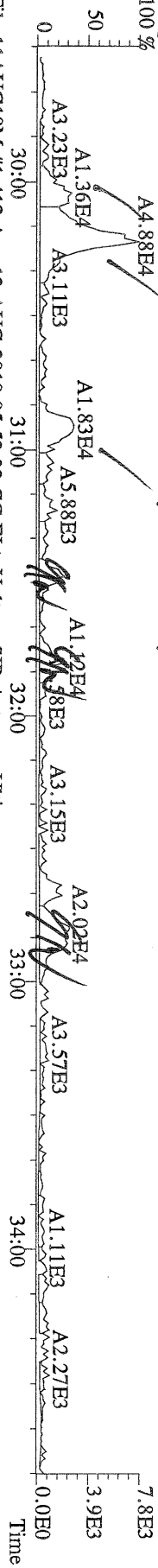
File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:23 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



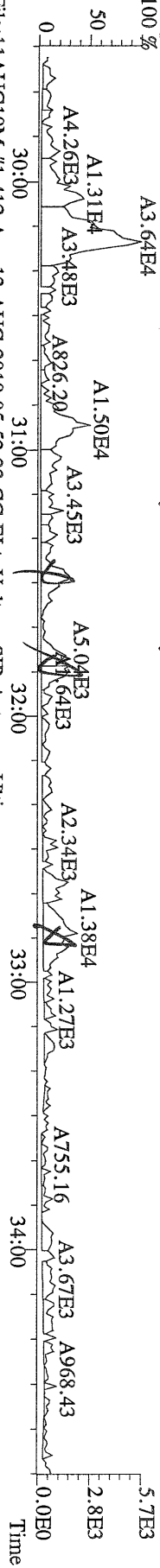
File:11AUG10M #1-357 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:23 Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



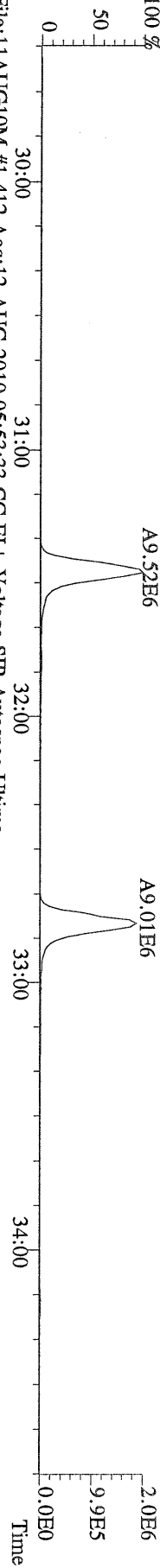
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



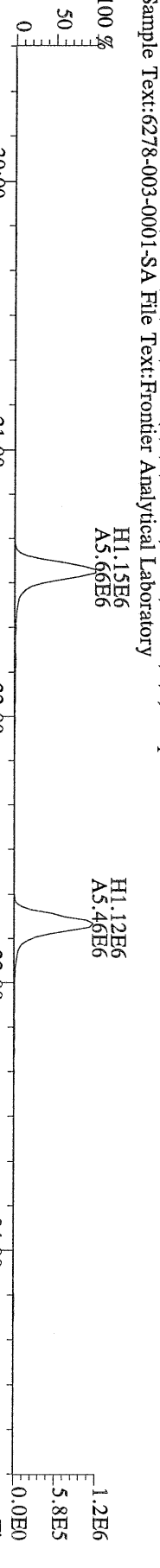
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



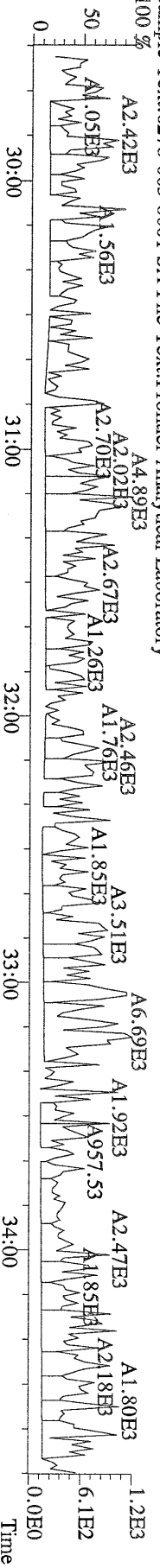
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



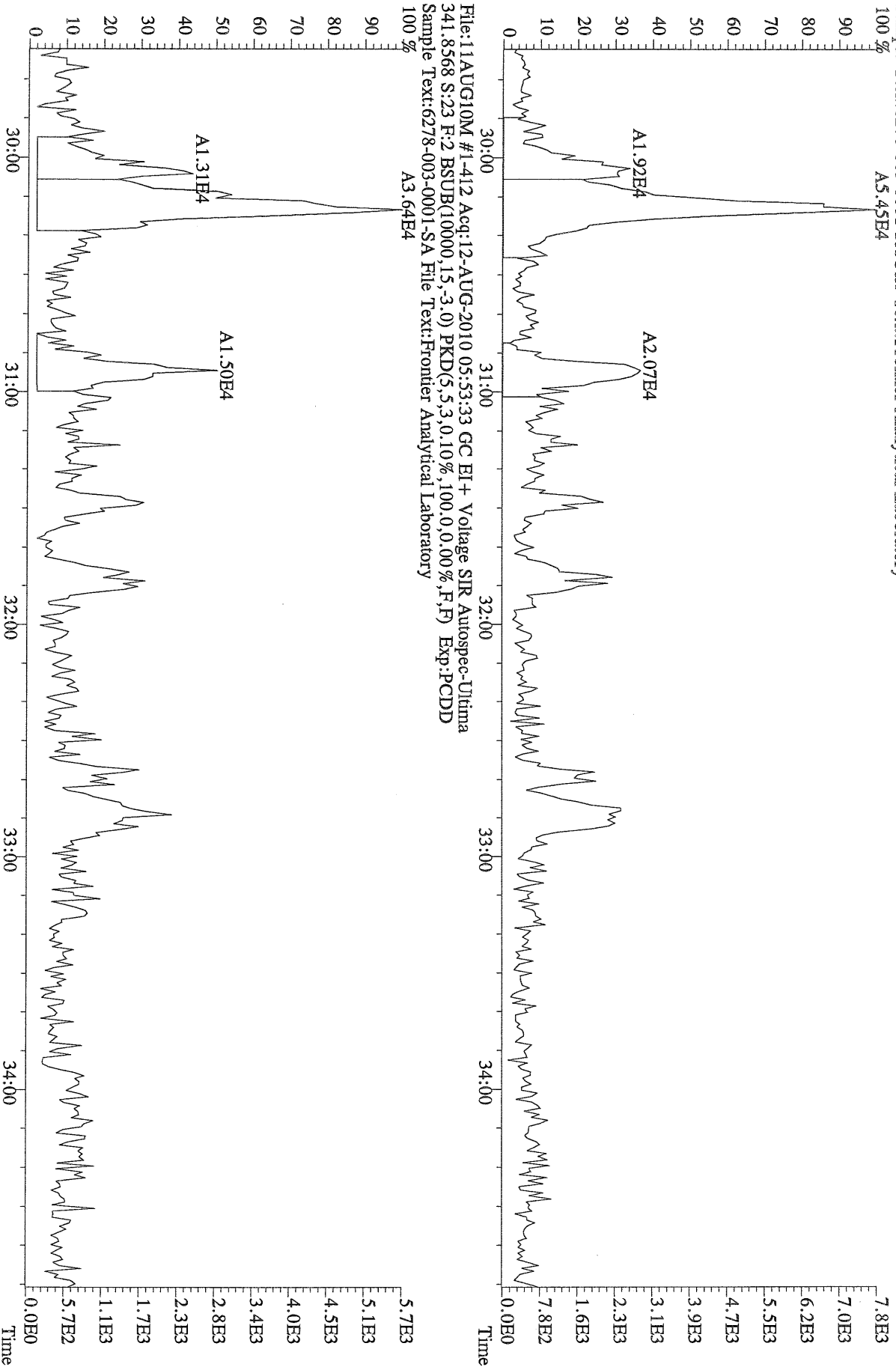
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



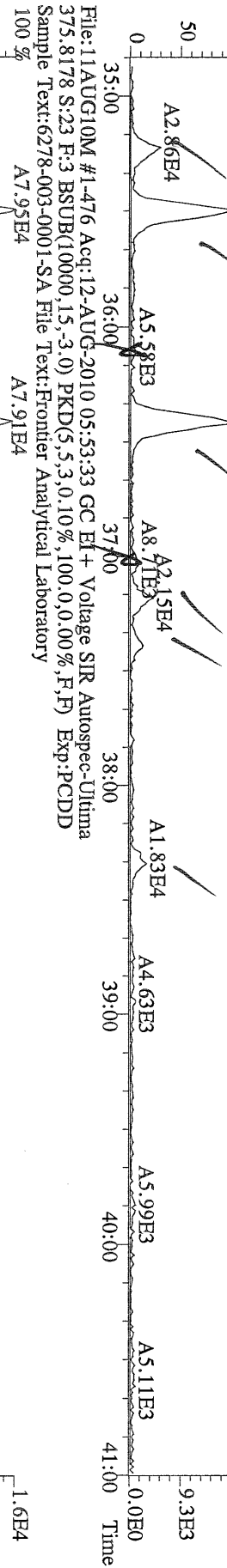
File:11AUG10M #1-412 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:23 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



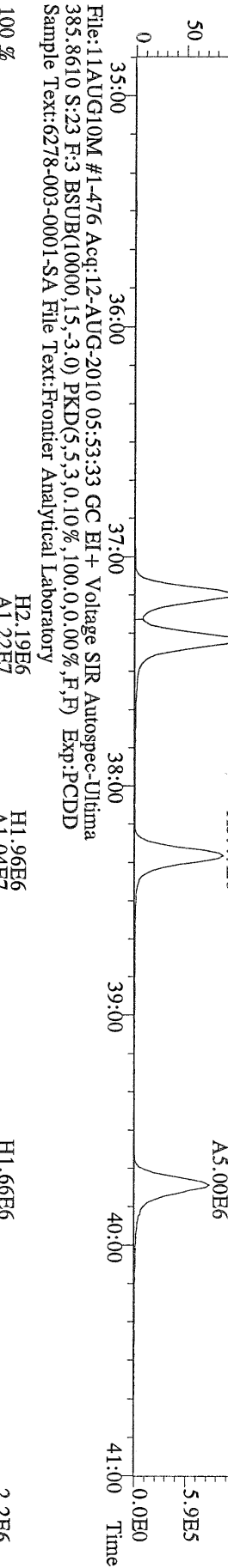
File: 11AUG10M #1-412 Acq: 12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:23 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



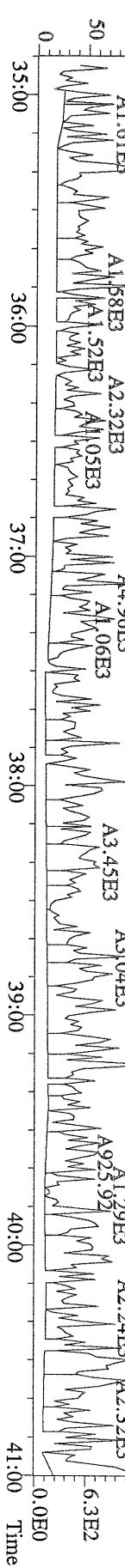
File:11AUG10M #1-476 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:23 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



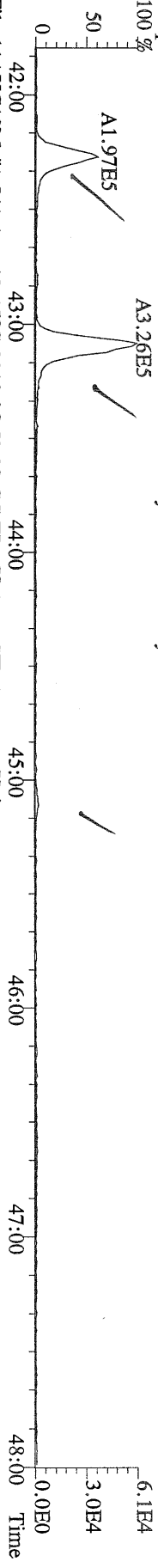
File:11AUG10M #1-476 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:23 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



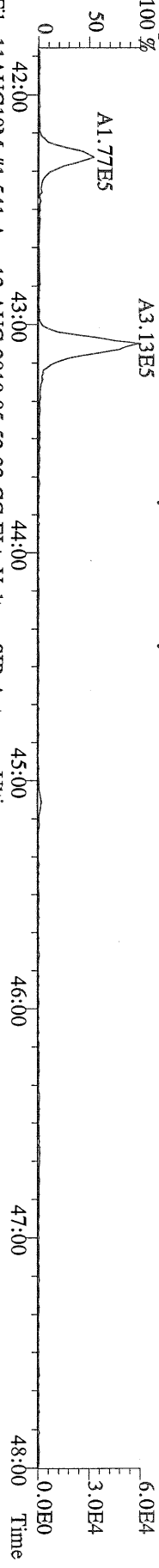
File:11AUG10M #1-476 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:23 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



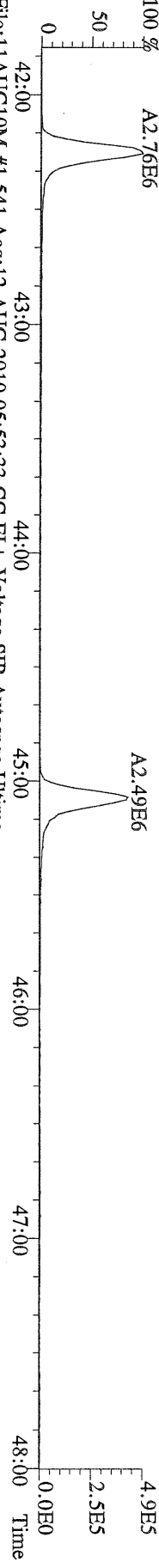
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



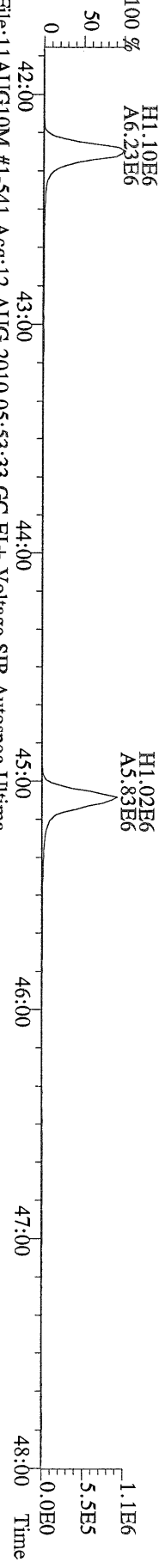
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



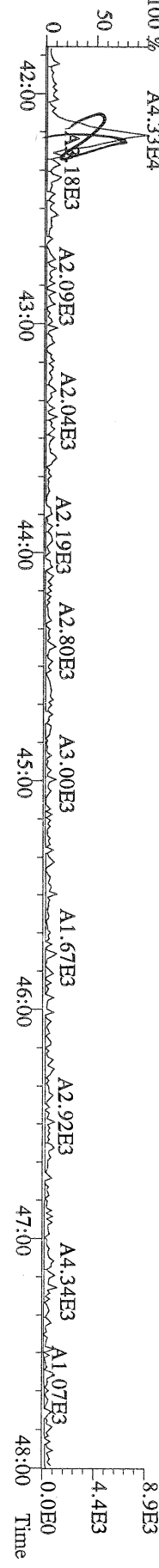
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



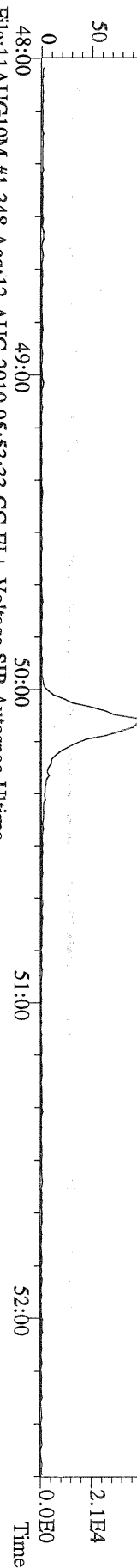
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



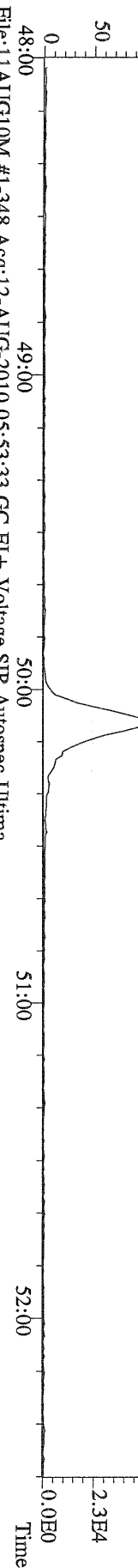
File:11AUG10M #1-541 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:23 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



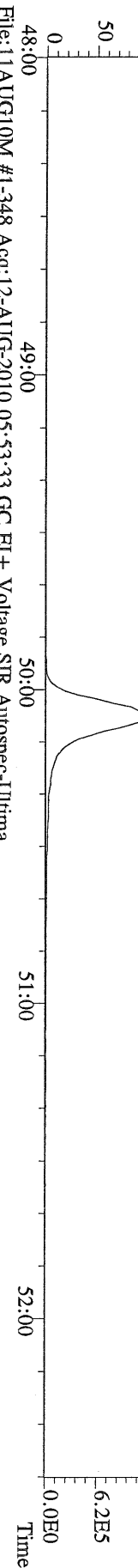
File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



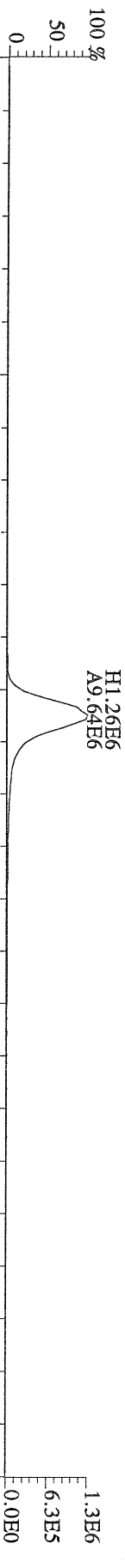
File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



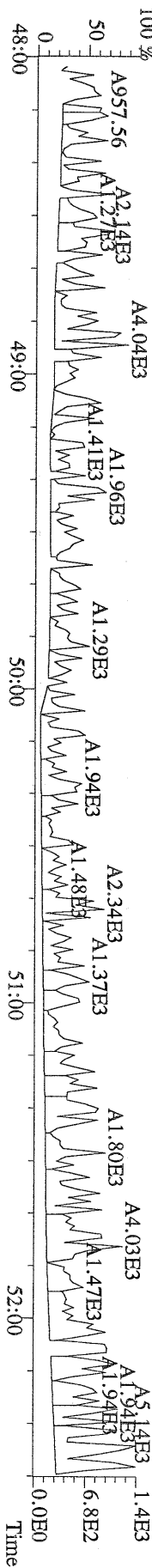
File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:12-AUG-2010 05:53:33 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:23 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-003-0001-SA File Text:Frontier Analytical Laboratory



Results: 6277 GC Column: DB5 Amount: 2.070 NATO 1989 Tox: 4.84 WHO 1998 Tox: 4.13 WHO 2005 Tox: 4.29

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	2.45e+04	0.70 y	27:25	1.04	1.77	J	2.50	-	-	*		
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	711	355	0.990		
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	382	489	0.890		
1,2,3,6,7,8-HxCDD	4.83e+04	1.37 y	38:45	1.28	4.20	J	2.50	-	-	*		
1,2,3,7,8,9-HxCDD	2.50e+04	1.22 y	39:11	1.25	2.18	J	2.50	-	-	*		
1,2,3,4,6,7,8-HpCDD	1.17e+06	1.02 y	44:11	1.35	90.6		2.50	-	-	*		
OCDD	4.73e+06	0.95 y	49:44	1.25	730		2.50	-	-	*		
2,3,7,8-TCDF	3.72e+04	0.69 y	26:39	1.62	0.975	J	2.50	-	-	*		
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	715	740	0.963		
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	715	740	0.940		
1,2,3,4,7,8-HxCDF	2.78e+04	1.06 y	37:11	0.93	1.46	J	2.50	-	-	*		
1,2,3,6,7,8-HxCDF	2.19e+04	1.08 y	37:23	0.84	1.10	J	2.50	-	-	*		
2,3,4,6,7,8-HxCDF	3.00e+04	1.08 y	38:20	0.90	1.65	J	2.50	-	-	*		
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	305	289	0.495		
1,2,3,4,6,7,8-HpCDF	3.06e+05	1.11 y	42:16	1.38	20.6		2.50	-	-	*		
1,2,3,4,7,8,9-HpCDF	1.64e+04	1.11 y	45:07	1.62	1.05	J	2.50	-	-	*		
OCDF	5.25e+05	0.84 y	50:06	0.74	64.5		2.50	-	-	*		
13C-2,3,7,8-TCDD	1.29e+07	0.83 y	27:22	0.93	912						94.3	
13C-1,2,3,7,8-PeCDD	1.27e+07	1.76 y	33:12	0.81	1030						106	
13C-1,2,3,4,7,8-HxCDD	9.05e+06	1.22 y	38:34	0.95	925						95.8	
13C-1,2,3,6,7,8-HxCDD	8.69e+06	1.21 y	38:44	1.00	845						87.4	
13C-1,2,3,4,6,7,8-HpCDD	9.23e+06	1.01 y	44:09	0.92	970						100	
13C-OCDD	1.00e+07	0.95 y	49:42	0.63	1530						79.2	
13C-2,3,7,8-TCDF	2.28e+07	0.87 y	26:38	0.87	951						98.4	
13C-1,2,3,7,8-PeCDF	1.92e+07	1.65 y	31:27	0.81	864						89.5	
13C-2,3,4,7,8-PeCDF	1.88e+07	1.67 y	32:47	0.75	907						93.8	
13C-1,2,3,4,7,8-HxCDF	1.98e+07	0.52 y	37:10	1.74	1100						114	
13C-1,2,3,6,7,8-HxCDF	2.30e+07	0.52 y	37:22	2.17	1030						106	
13C-2,3,4,6,7,8-HxCDF	1.96e+07	0.52 y	38:18	1.82	1050						108	
13C-1,2,3,7,8,9-HxCDF	1.74e+07	0.52 y	39:44	1.49	1130						117	
13C-1,2,3,4,6,7,8-HpCDF	1.04e+07	0.45 y	42:15	1.10	914						94.6	
13C-1,2,3,4,7,8,9-HpCDF	9.31e+06	0.44 y	45:05	0.81	1100						114	
13C-OCDF	2.12e+07	0.98 y	50:05	1.19	1730						89.7	
37Cl-2,3,7,8-TCDD	5.66e+06		27:23	0.93	397						103	
13C-1,2,3,4-TCDD	1.48e+07	0.84 y	26:48	-	21.1							
13C-1,2,3,4-TCDF	2.66e+07	0.87 y	25:32	-	24.1							
13C-1,2,3,7,8,9-HxCDD	9.99e+06	1.23 y	39:10	-	22.4							
Total Tetra-Dioxins	1.45e+05		24:23	1.04	10.5		2.50	-	-	*		3
Total Penta-Dioxins	1.55e+05		30:15	1.05	11.2	J	2.50	-	-	*		3
Total Hexa-Dioxins	3.89e+05		36:07	1.27	33.3		2.50	-	-	*		5
Total Hepta-Dioxins	2.16e+06		42:48	1.35	167		2.50	-	-	*		2
Total Tetra-Furans	6.39e+05		23:48	1.62	16.8		2.50	-	-	*		11
1st Fn. Tot Penta-Furans	1.11e+05		28:26	0.93	6.05		2.50	-	-	*	PeCDF	1
Total Penta-Furans	1.35e+05		30:13	0.93	7.37		2.50	-	-	*	13.4	2
Total Hexa-Furans	4.07e+05		35:15	0.90	21.7		2.50	-	-	*		6
Total Hepta-Furans	8.92e+05		42:16	1.48	59.3		2.50	-	-	*		3

Analyst: 

Date: 8/12/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 18 File: 11AUG10M S: 12 I: 1 F: 1
Acquired: 11-AUG-10 19:44:53

Total Concentration: 10.5

Unnamed Concentration: 8.682

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:23	2.91e+04	3.92e+04	0.74 y	6.83e+04	4.93	
24:40	2.30e+04	2.90e+04	0.80 y	5.20e+04	3.75	
27:25	1.01e+04	1.44e+04	0.70 y	2.45e+04	1.77	2,3,7,8-TCDD

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 18 File: 11AUG10M S: 12 I: 1 F: 2
Acquired: 11-AUG-10 19:44:53

Total Concentration: 11.2

Unnamed Concentration: 11.231

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:15	3.82e+04	2.20e+04	1.73 y	6.02e+04	4.37	
31:28	2.81e+04	1.84e+04	1.53 y	4.65e+04	3.38	
31:49	2.82e+04	1.98e+04	1.42 y	4.80e+04	3.48	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 18 File: 11AUG10M S: 12 I: 1 F: 3
Acquired: 11-AUG-10 19:44:53

Total Concentration: 33.3

Unnamed Concentration: 26.939

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:07	4.31e+04	3.03e+04	1.42 y	7.35e+04	6.28	
37:03	5.62e+04	4.00e+04	1.41 y	9.62e+04	8.22	
37:29	8.38e+04	6.18e+04	1.36 y	1.46e+05	12.4	
38:45	2.79e+04	2.03e+04	1.37 y	4.83e+04	4.20	1,2,3,6,7,8-HxCDD
39:11	1.37e+04	1.13e+04	1.22 y	2.50e+04	2.18	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 18

File: 11AUG10M

S: 12 I: 1 F: 4

Acquired: 11-AUG-10 19:44:53

Total Concentration: 167

Unnamed Concentration: 76.464

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	4.85e+05	5.04e+05	0.96 y	9.89e+05	76.5	
44:11	5.92e+05	5.80e+05	1.02 y	1.17e+06	90.6	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 18

File: 11AUG10M

S: 12 I: 1 F: 1

Acquired: 11-AUG-10 19:44:53

Total Concentration: 16.8

Unnamed Concentration: 15.785

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:48	4.09e+04	5.96e+04	0.69 y	1.00e+05	2.63	
24:10	3.45e+04	4.95e+04	0.70 y	8.40e+04	2.20	
24:26	3.00e+04	4.25e+04	0.71 y	7.25e+04	1.90	
24:42	2.72e+04	4.01e+04	0.68 y	6.74e+04	1.77	
25:19	1.86e+04	2.68e+04	0.69 y	4.54e+04	1.19	
25:26	2.91e+04	4.20e+04	0.69 y	7.11e+04	1.86	
25:34	1.56e+04	2.21e+04	0.71 y	3.77e+04	0.988	
25:55	1.47e+04	2.20e+04	0.67 y	3.67e+04	0.961	
26:08	1.02e+04	1.43e+04	0.72 y	2.45e+04	0.642	
26:39	1.52e+04	2.20e+04	0.69 y	3.72e+04	0.975	2,3,7,8-TCDF
26:58	2.64e+04	3.59e+04	0.73 y	6.23e+04	1.63	

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

Run: 18 File: 11AUG10M S: 12 I: 1 F: 1
Acquired: 11-AUG-10 19:44:53

Total Concentration: 6.05 Unnamed Concentration: 6.052

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:26	6.90e+04	4.17e+04	1.65 y	1.11e+05	6.05	

Totals class: Total Penta-Furans

Entry #: 44

Run: 18

File: 11AUG10M

S: 12 I: 1 F: 2

Acquired: 11-AUG-10 19:44:53

Total Concentration: 7.37

Unnamed Concentration: 7.365

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:13	5.57e+04	4.01e+04	1.39 y	9.59e+04	5.24	
30:56	2.26e+04	1.63e+04	1.38 y	3.89e+04	2.13	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 18 File: 11AUG10M
Acquired: 11-AUG-10 19:44:53

S: 12 I: 1 F: 3

Total Concentration: 21.7

Unnamed Concentration: 17.517

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:15	2.06e+04	1.75e+04	1.18 y	3.80e+04	2.03	
35:30	7.50e+04	6.26e+04	1.20 y	1.38e+05	7.36	
36:25	8.21e+04	6.98e+04	1.18 y	1.52e+05	8.12	
37:11	1.43e+04	1.35e+04	1.06 y	2.78e+04	1.46	1,2,3,4,7,8-HxCDF
37:23	1.14e+04	1.05e+04	1.08 y	2.19e+04	1.10	1,2,3,6,7,8-HxCDF
38:20	1.56e+04	1.44e+04	1.08 y	3.00e+04	1.65	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 18

File: 11AUG10M

S: 12 I: 1 F: 4

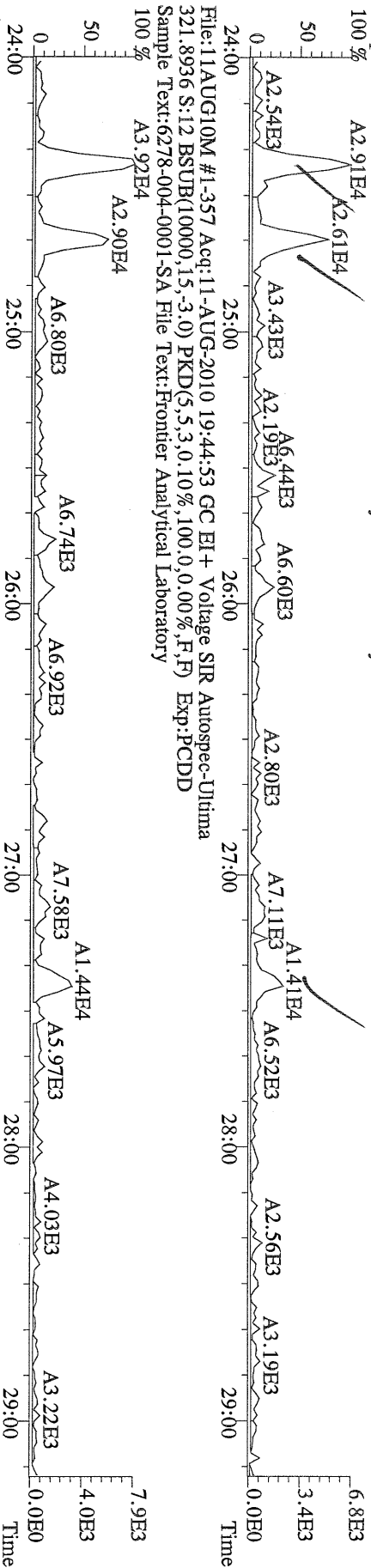
Acquired: 11-AUG-10 19:44:53

Total Concentration: 59.3

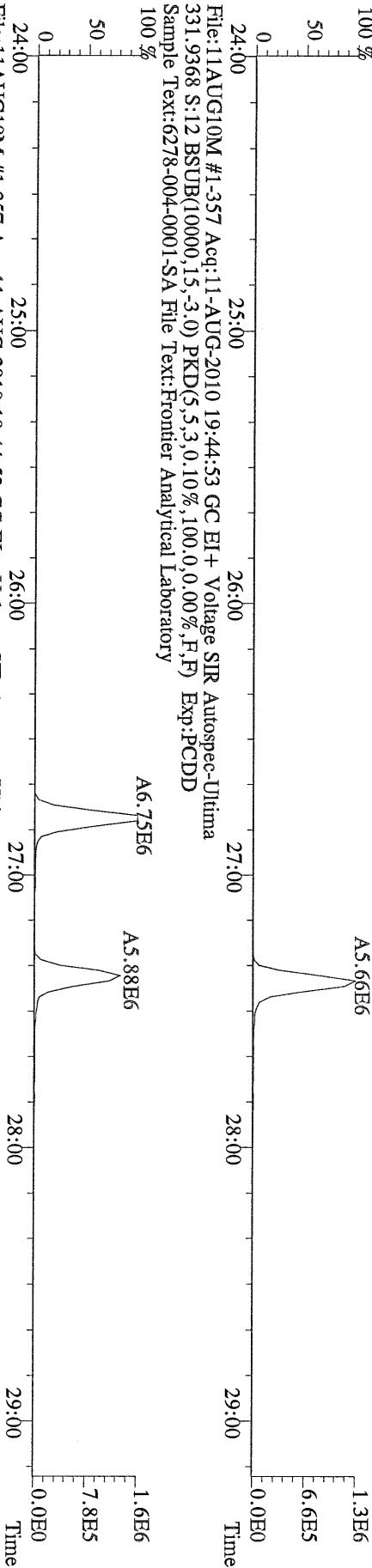
Unnamed Concentration: 37.673

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	1.61e+05	1.45e+05	1.11 y	3.06e+05	20.6	1,2,3,4,6,7,8-HpCDF
43:06	2.98e+05	2.72e+05	1.10 y	5.70e+05	37.7	
45:07	8.65e+03	7.76e+03	1.11 y	1.64e+04	1.05	1,2,3,4,7,8,9-HpCDF

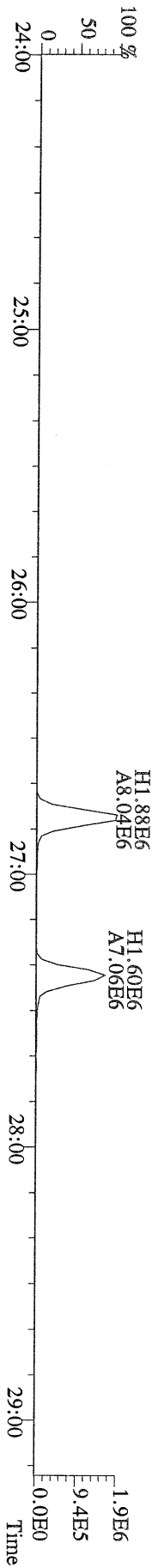
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319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



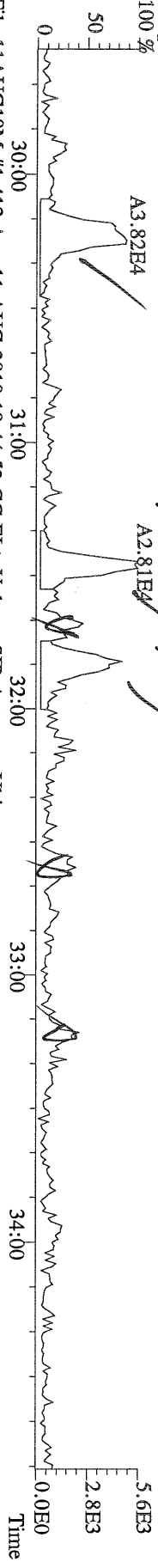
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327.8847 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



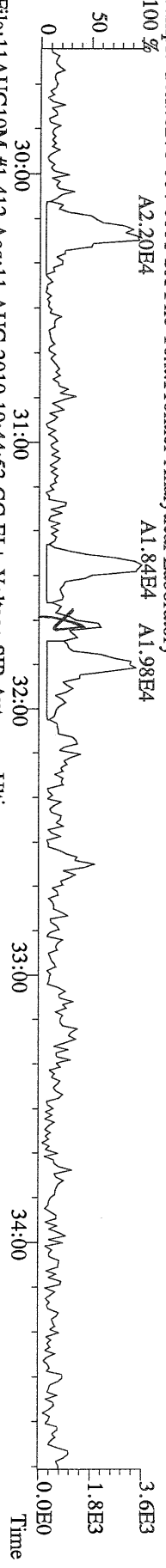
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333.9339 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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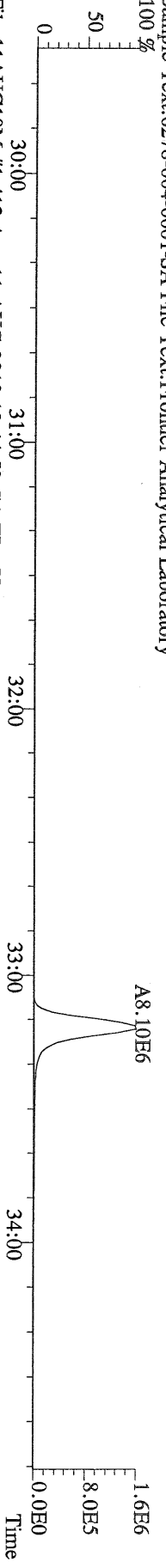
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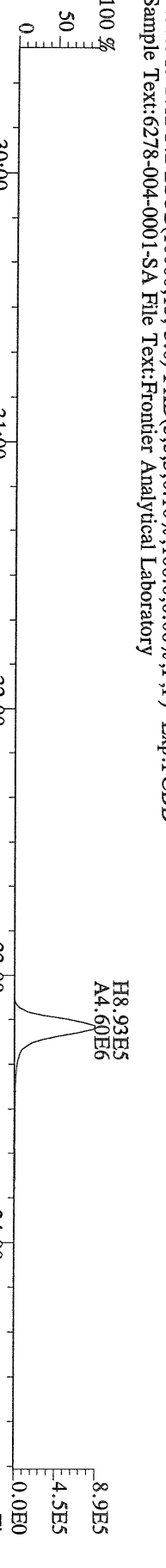
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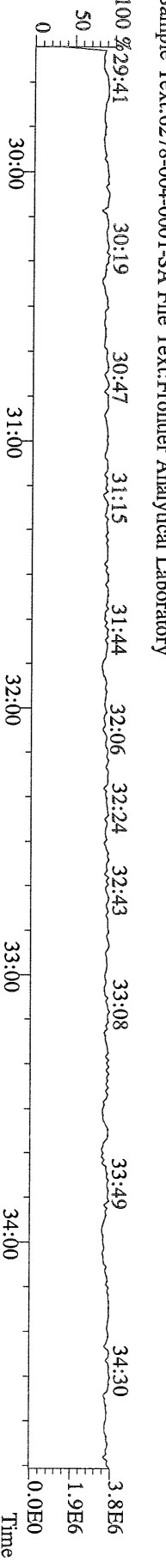
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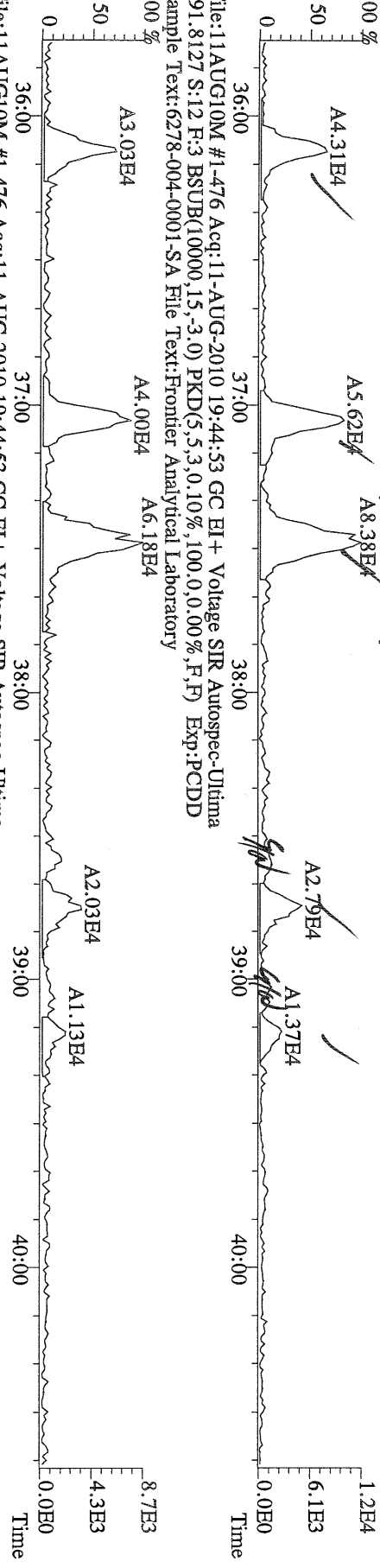
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 369.8919 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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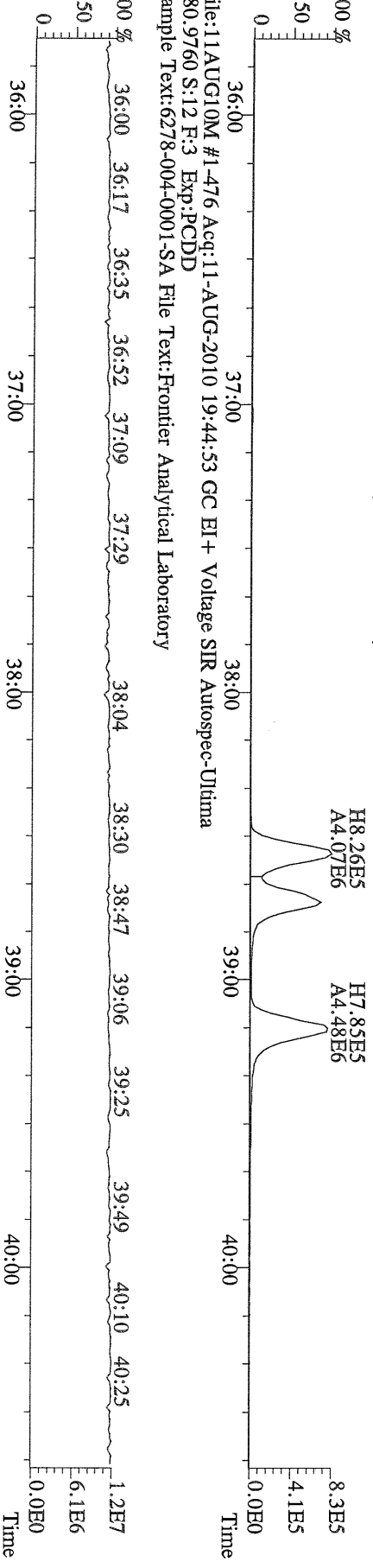
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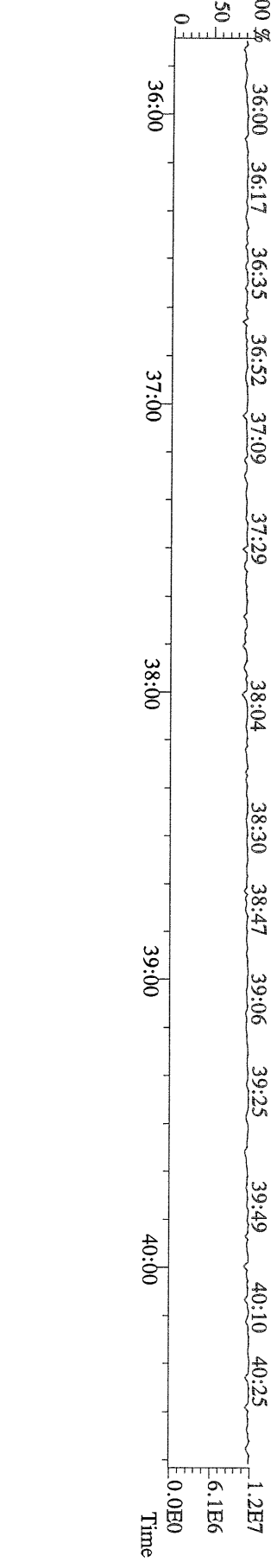
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 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



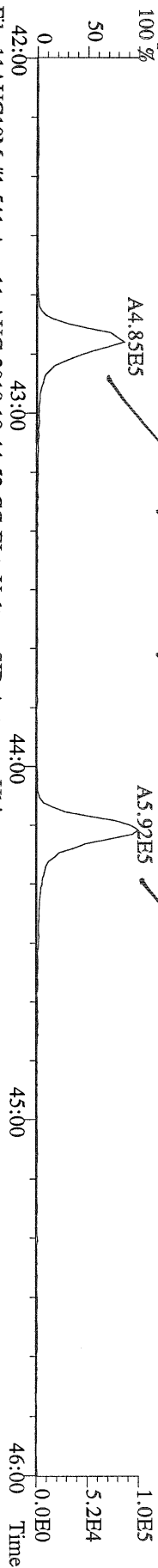
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 401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



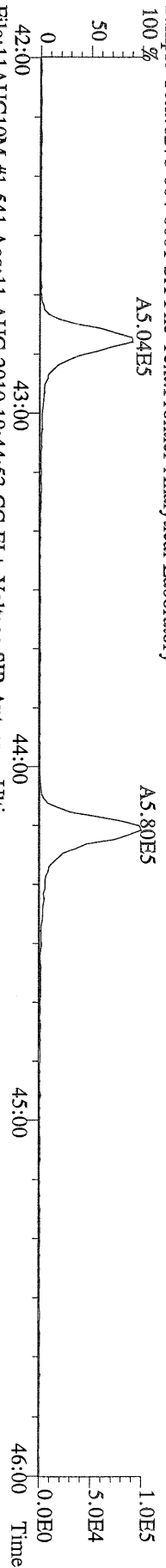
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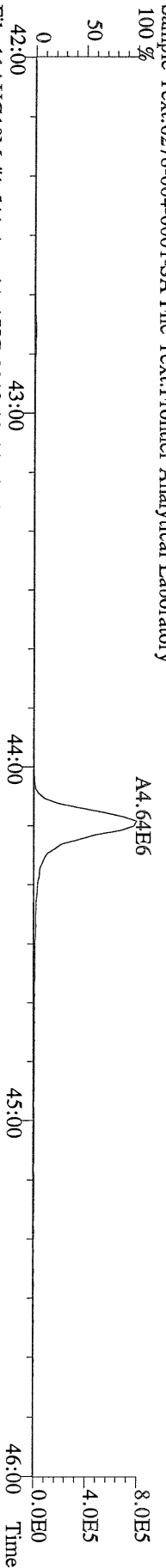
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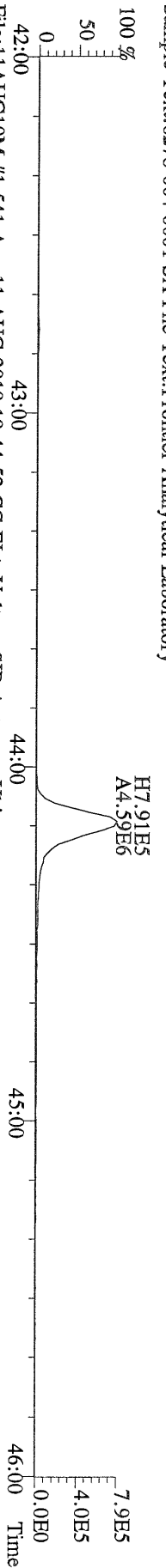
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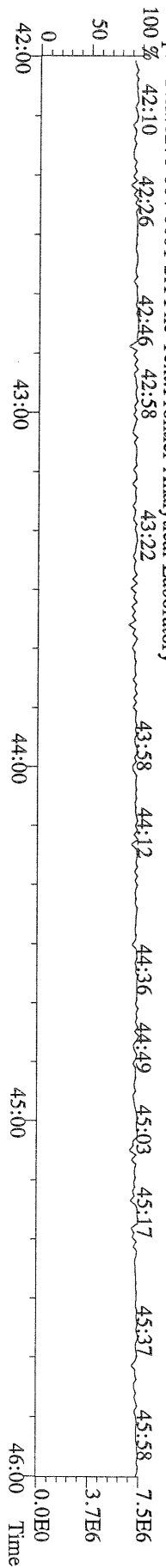
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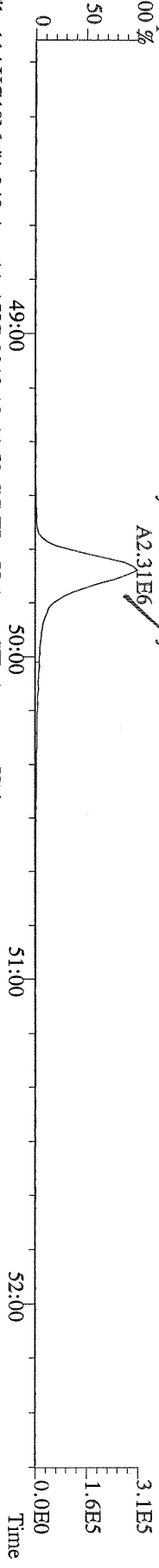
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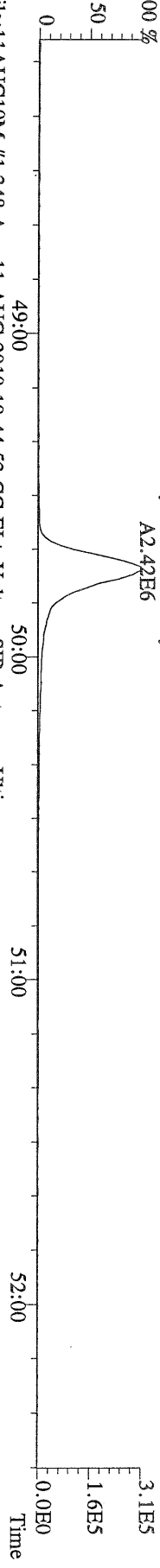
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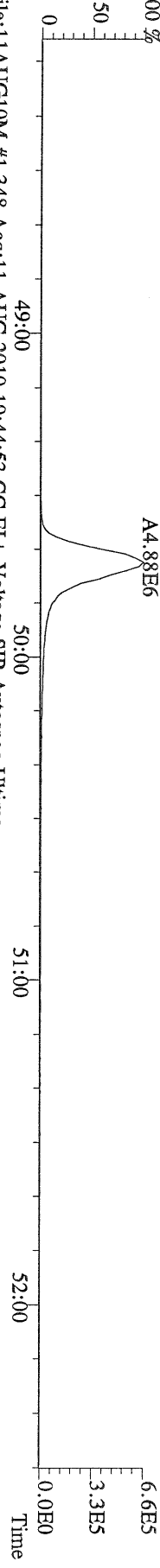
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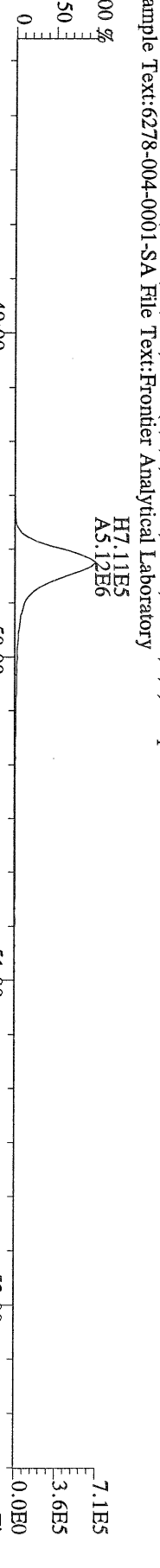
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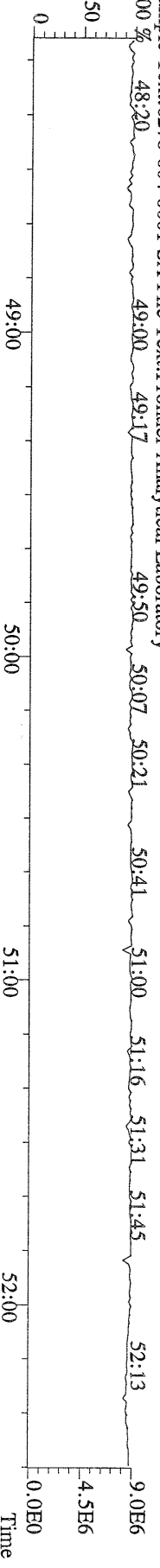
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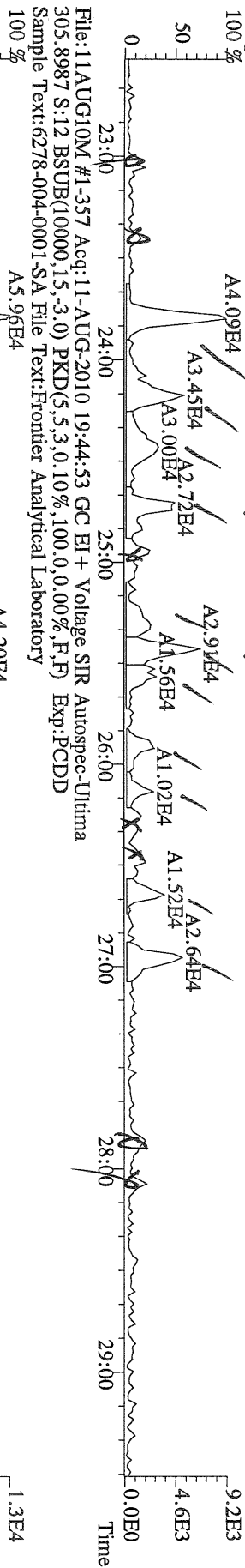
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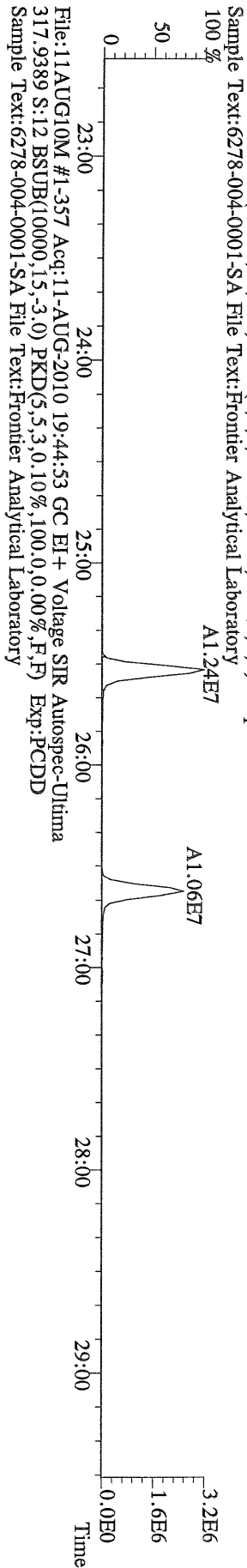
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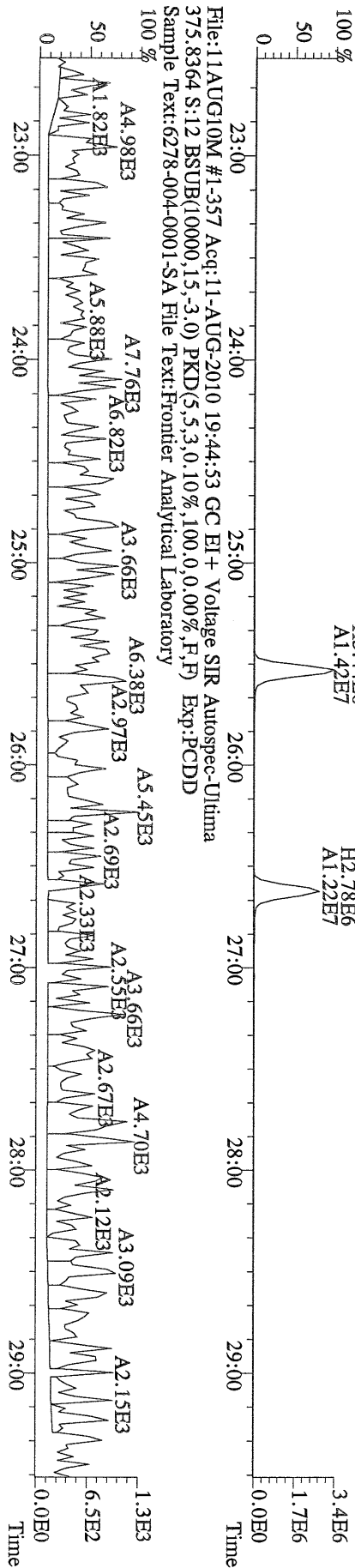
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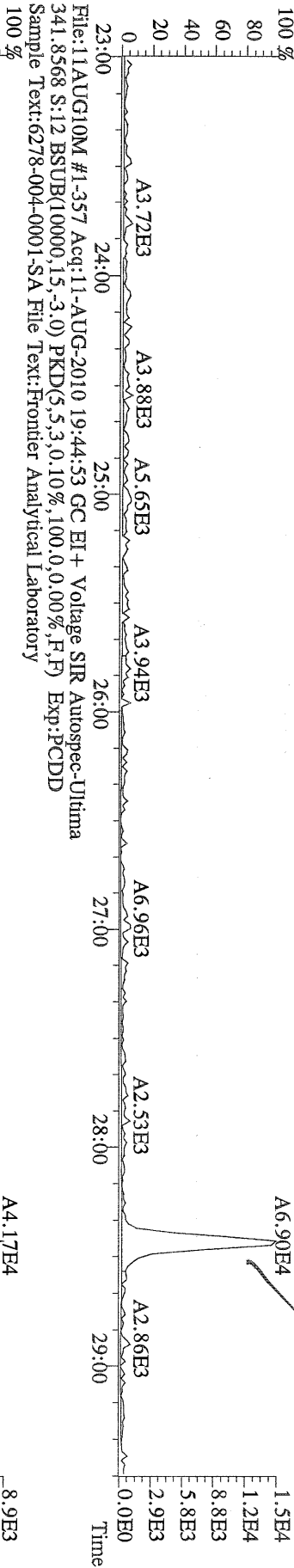
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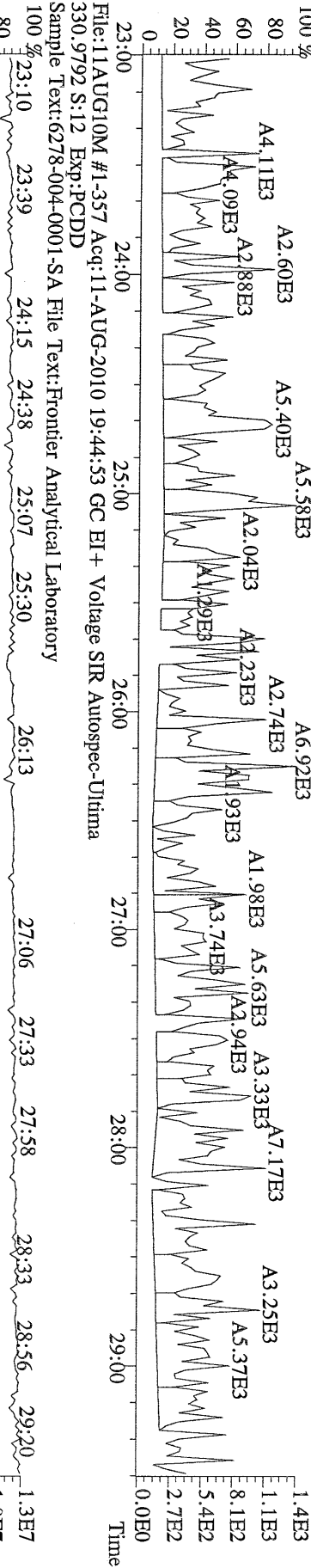
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File:11AUG10M #1-357 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
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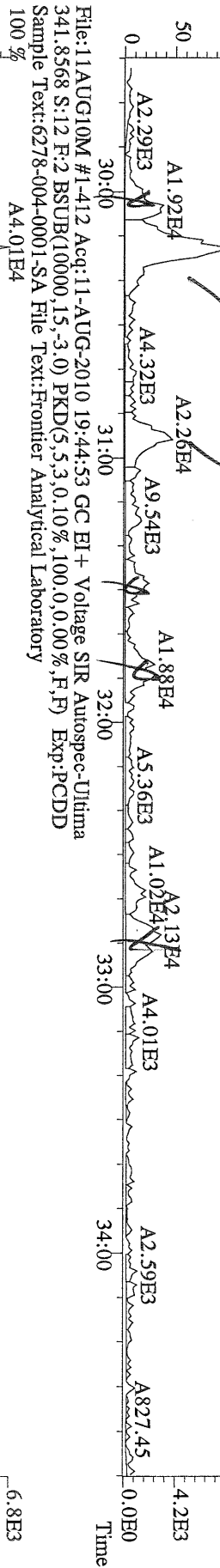


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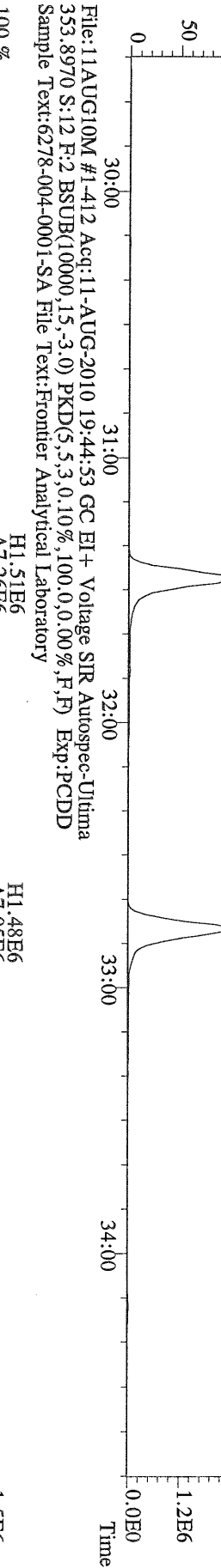


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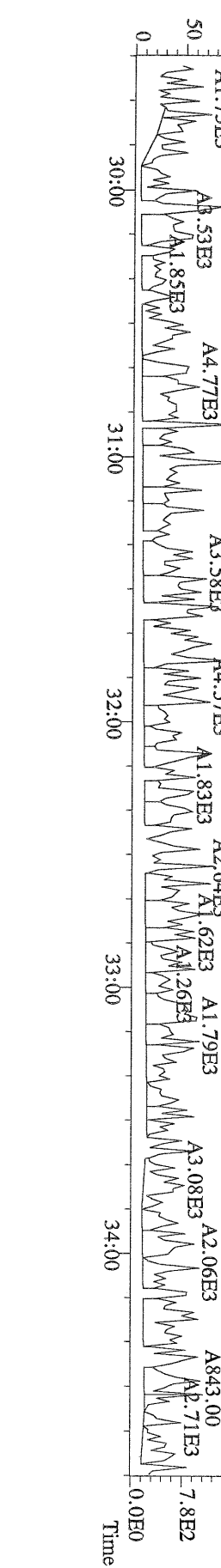
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 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



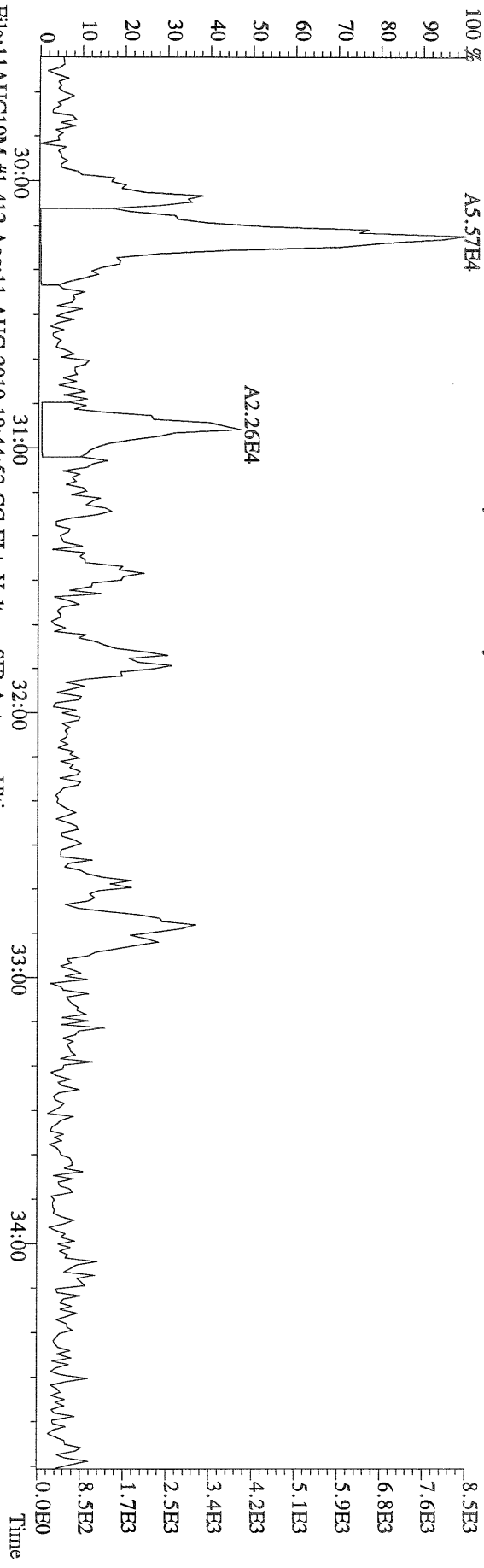
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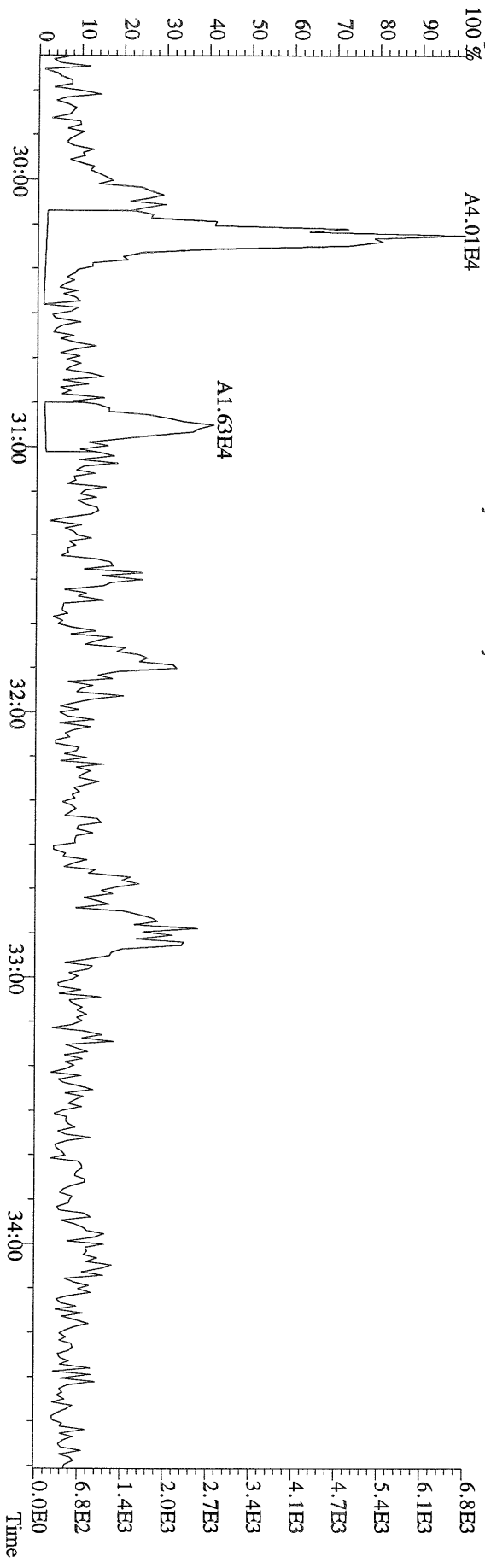
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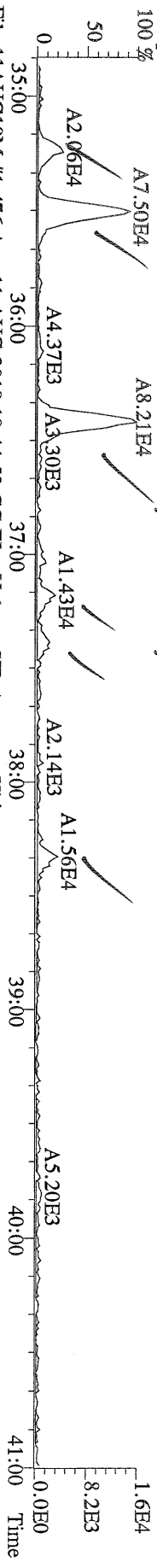
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Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



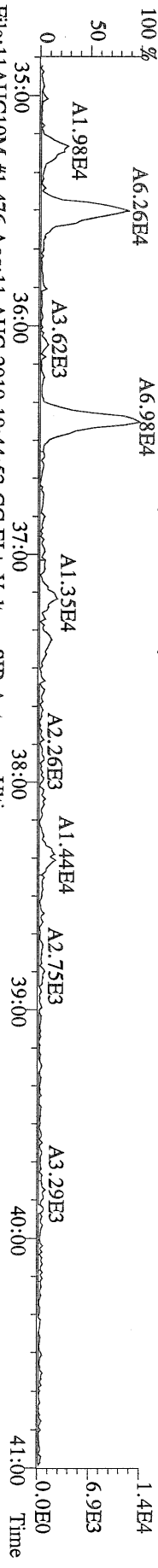
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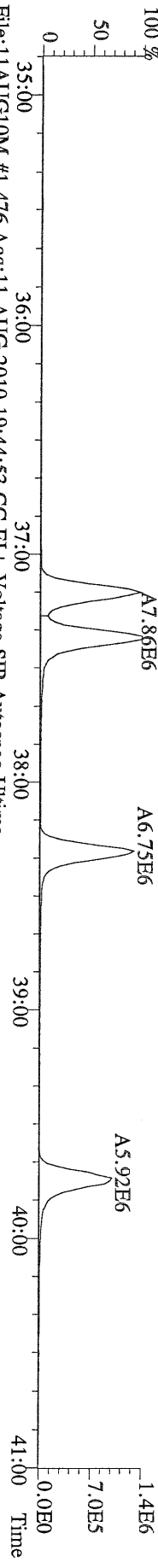
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 373.8207 S:12 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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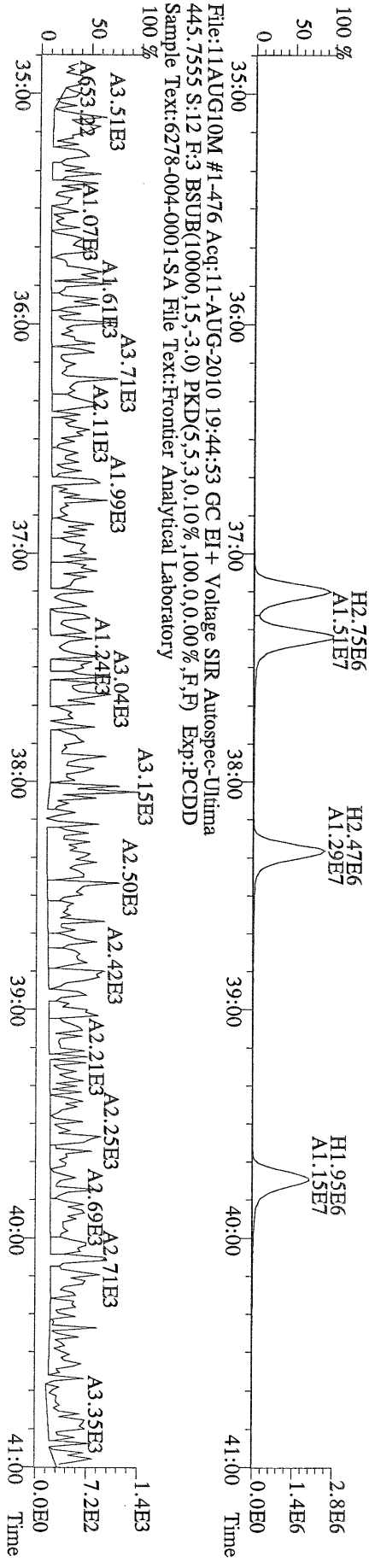
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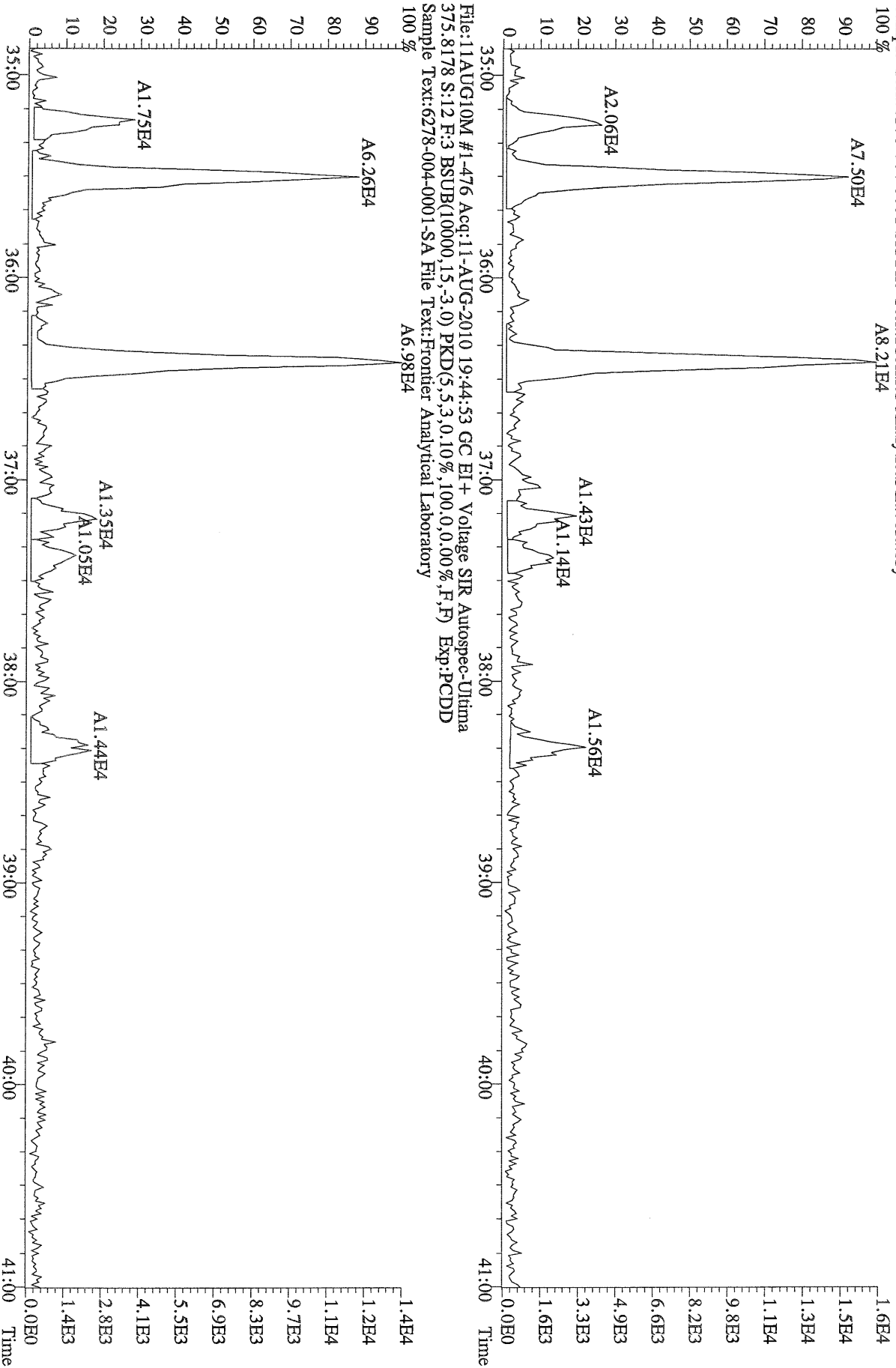
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 383.8639 S:12 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



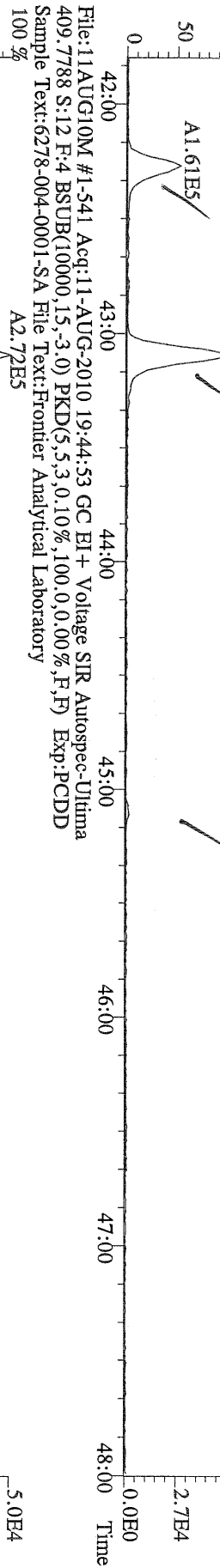
File:11AUG10M #1-476 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:12 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



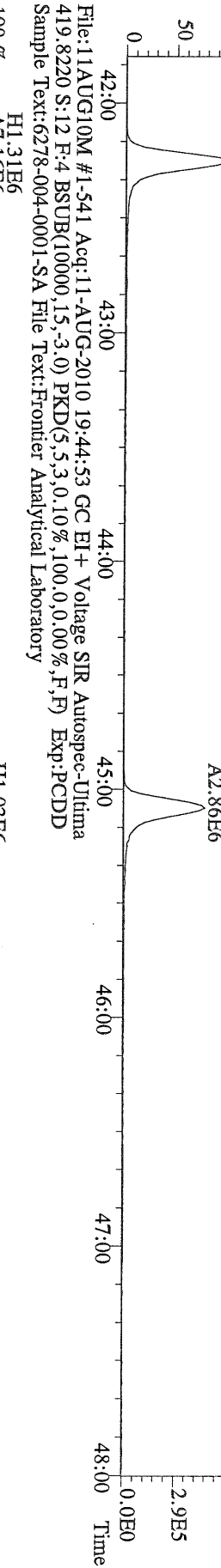
File: 11AUG10M #1-476 Acq: 11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S: 12 F: 3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp: PCDD
 Sample Text: 6278-004-0001-SA File Text: Frontier Analytical Laboratory



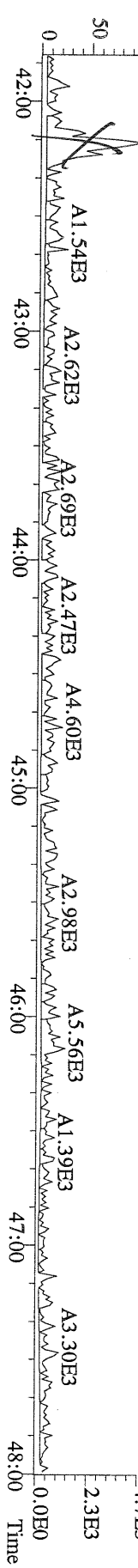
File:11AUG10M #1-541 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



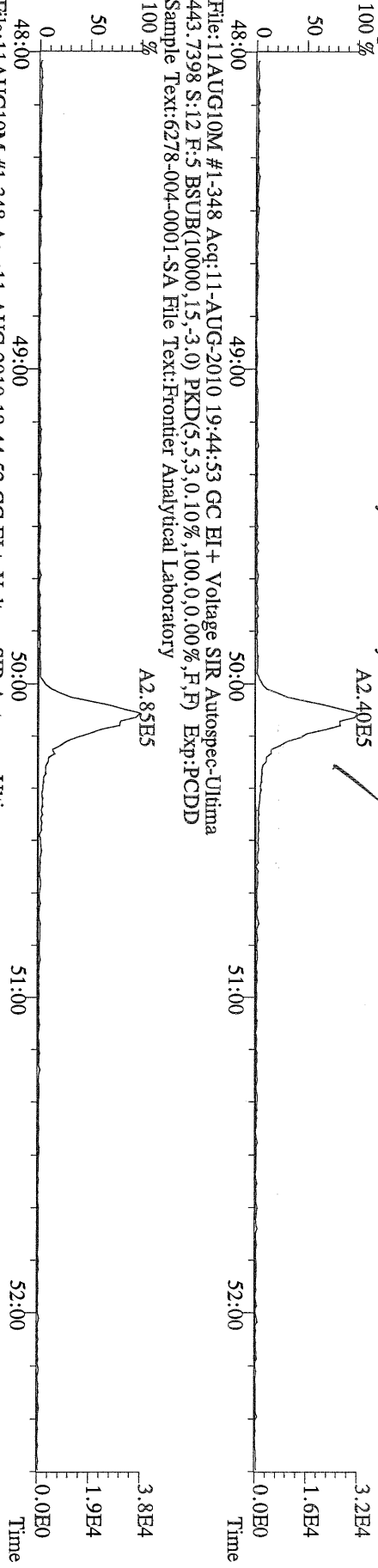
File:11AUG10M #1-541 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



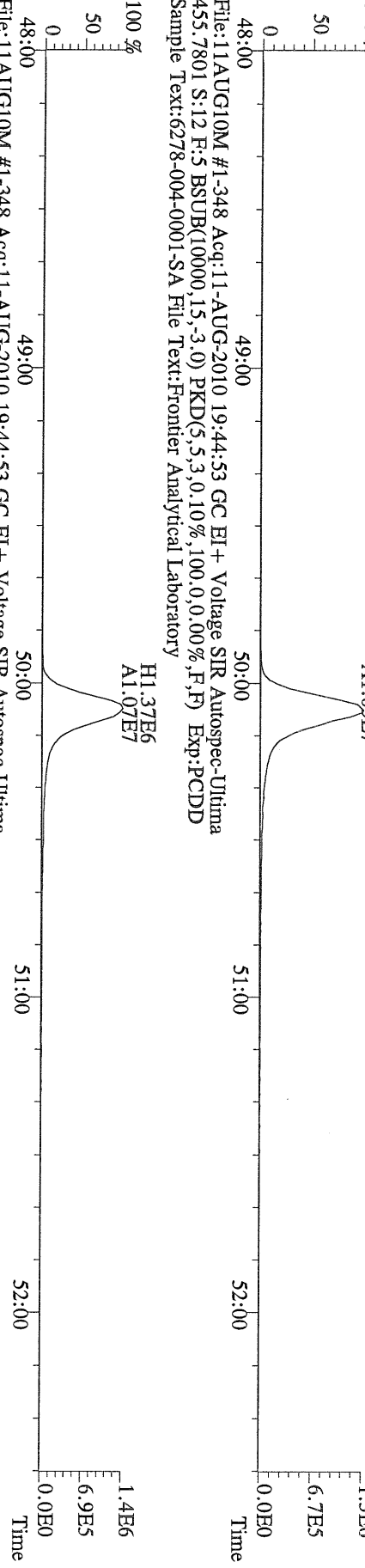
File:11AUG10M #1-541 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



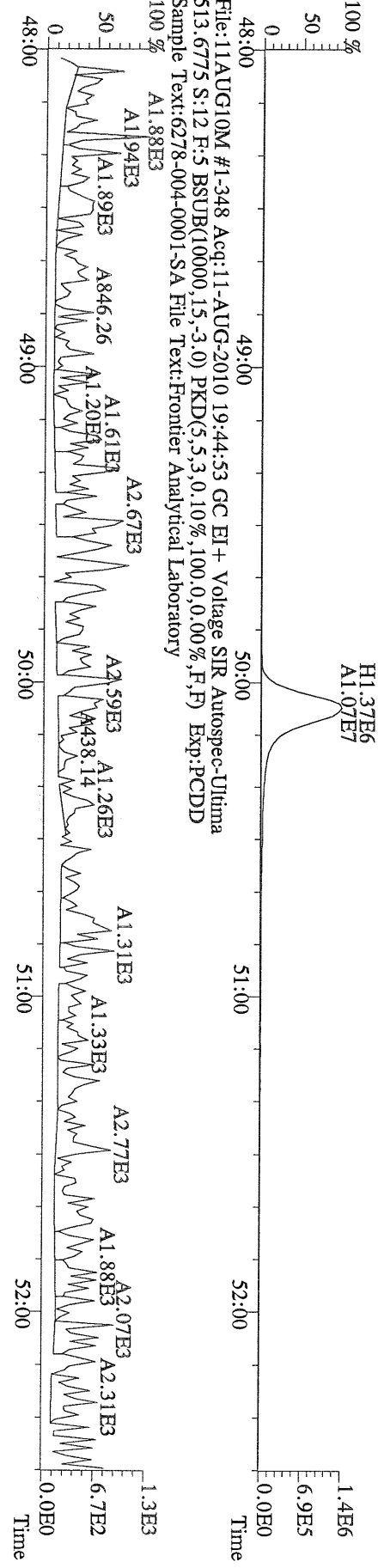
File:11AUG10M #1-348 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-348 Acq:11-AUG-2010 19:44:53 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-004-0001-SA File Text:Frontier Analytical Laboratory

FAL ID: 6278-005-0001-SA Filename: 11AUG10M Sam:24 Acquired: 12-AUG-10 06:48:51 ICal: PCDDFAL3-5-12-10
 Client ID: PSB24-0-0.5-072910 ConCal: ST081110M2 EndCal: ST081110M3
 Results: 6278 GC Column: DB5 Amount: 2.080

NATO 1989 Tox: 19.2
 WHO 1998 Tox: 15.8 WHO 2005 Tox: 16.5
 DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	2.45e+04	0.75 y	27:23	1.04	2.61		2.50	-	*	
1,2,3,7,8-PeCDD	2.16e+04	1.32 y	33:13	1.05	2.28	J	2.50	-	*	
1,2,3,4,7,8-HxCDD	2.43e+04	1.40 y	38:35	1.30	3.15	J	2.50	-	*	
1,2,3,6,7,8-HxCDD	1.17e+05	1.38 y	38:45	1.28	15.3		2.50	-	*	
1,2,3,7,8,9-HxCDD	6.00e+04	1.36 y	39:11	1.25	8.04	J	2.50	-	*	
1,2,3,4,6,7,8-HpCDD	4.57e+06	1.04 y	44:11	1.35	486		2.50	-	*	
OCDD	2.66e+07	0.97 y	49:44	1.25	4530		2.50	-	*	
2,3,7,8-TCDF	3.25e+04	0.80 y	26:37	1.62	1.25	J	2.50	-	*	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	342	286	0.536
2,3,4,7,8-PeCDF	2.06e+04	1.33 y	32:47	0.94	1.51	J	2.50	-	*	
1,2,3,4,7,8-HxCDF	5.76e+04	1.26 y	37:11	0.93	4.00	J	2.50	-	*	
1,2,3,6,7,8-HxCDF	3.06e+04	1.17 y	37:23	0.84	2.14	J	2.50	-	*	
2,3,4,6,7,8-HxCDF	3.81e+04	1.35 y	38:20	0.90	2.84	J	2.50	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	350	307	0.715
1,2,3,4,6,7,8-HpCDF	1.32e+06	1.08 y	42:16	1.38	111		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	5.33e+04	1.12 y	45:05	1.62	4.44	J	2.50	-	*	
OCDF	3.22e+06	0.82 y	50:06	0.74	452		2.50	-	*	
13C-2,3,7,8-TCDD	8.70e+06	0.85 y	27:22	0.93	973					Rec
13C-1,2,3,7,8-PeCDD	8.71e+06	1.77 y	33:11	0.81	1120					101
13C-1,2,3,4,7,8-HxCDD	5.73e+06	1.24 y	38:33	0.95	861					116
13C-1,2,3,6,7,8-HxCDD	5.77e+06	1.19 y	38:44	1.00	825					89.6
13C-1,2,3,4,6,7,8-HpCDD	6.68e+06	0.98 y	44:09	0.92	1030					85.8
13C-OCDD	9.03e+06	0.93 y	49:42	0.63	2030					107
13C-2,3,7,8-TCDF	1.54e+07	0.85 y	26:37	0.87	970					106
13C-1,2,3,7,8-PeCDF	1.47e+07	1.67 y	31:27	0.81	993					101
13C-2,3,4,7,8-PeCDF	1.39e+07	1.66 y	32:46	0.75	1010					103
13C-1,2,3,4,7,8-HxCDF	1.49e+07	0.52 y	37:10	1.74	1220					105
13C-1,2,3,6,7,8-HxCDF	1.65e+07	0.52 y	37:22	2.17	1080					107
13C-2,3,4,6,7,8-HxCDF	1.44e+07	0.52 y	38:18	1.82	1130					127
13C-1,2,3,7,8,9-HxCDF	1.27e+07	0.52 y	39:44	1.49	1220					122
13C-1,2,3,4,6,7,8-HpCDF	8.30e+06	0.43 y	42:14	1.10	1080					127
13C-1,2,3,4,7,8,9-HpCDF	7.11e+06	0.45 y	45:04	0.81	1240					127
13C-OCDF	1.85e+07	0.99 y	50:05	1.19	2220					129
37Cl-2,3,7,8-TCDD	3.47e+06		27:23	0.93	387					116
13C-1,2,3,4-TCDD	9.27e+06	0.86 y	26:48	-	13.1					
13C-1,2,3,4-TCDF	1.76e+07	0.87 y	25:31	-	15.9					
13C-1,2,3,7,8,9-HxCDD	6.76e+06	1.22 y	39:10	-	15.1					
Total Tetra-Dioxins	9.43e+04		24:23	1.04	10.1		2.50	-	*	3
Total Penta-Dioxins	2.10e+05		30:15	1.05	22.2		2.50	-	*	7
Total Hexa-Dioxins	8.33e+05		36:06	1.27	109		2.50	-	*	7
Total Hepta-Dioxins	8.47e+06		42:47	1.35	900		2.50	-	*	2
Total Tetra-Furans	5.77e+05		23:23	1.62	22.2		2.50	-	*	16
1st Fn. Tot Penta-Furans	1.15e+05		28:26	0.93	8.34		2.50	-	*	PeCDF 1.8
Total Penta-Furans	2.59e+05		30:03	0.93	18.8		2.50	-	*	27.2
Total Hexa-Furans	1.14e+06		35:14	0.90	82.9		2.50	-	*	8
Total Hepta-Furans	4.32e+06		42:16	1.48	363		2.50	-	*	27.1

Analyst: [Signature] Date: 8/13/10

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 27

File: 11AUG10M

S: 24 I: 1 F: 1

Acquired: 12-AUG-10 06:48:51

Total Concentration: 10.1

Unnamed Concentration: 7.452

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:23	1.73e+04	2.16e+04	0.80 y	3.89e+04	4.15	
24:40	1.38e+04	1.71e+04	0.80 y	3.09e+04	3.30	
27:23	1.05e+04	1.40e+04	0.75 y	2.45e+04	2.61	2,3,7,8-TCDD

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 27 File: 11AUG10M S: 24 I: 1 F: 2
Acquired: 12-AUG-10 06:48:51

Total Concentration: 22.2

Unnamed Concentration: 19.893

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:15	3.50e+04	2.39e+04	1.46 y	5.90e+04	6.21	
31:27	2.36e+04	1.67e+04	1.41 y	4.03e+04	4.25	
31:41	1.31e+04	7.50e+03	1.75 y	2.06e+04	2.17	
31:50	1.92e+04	1.18e+04	1.63 y	3.10e+04	3.27	
32:08	1.35e+04	7.61e+03	1.78 y	2.11e+04	2.23	
32:35	9.64e+03	7.10e+03	1.36 y	1.67e+04	1.76	
33:13	1.23e+04	9.31e+03	1.32 y	2.16e+04	2.28	1,2,3,7,8-PeCDD

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 27 File: 11AUG10M S: 24 I: 1 F: 3
Acquired: 12-AUG-10 06:48:51

Total Concentration: 109

Unnamed Concentration: 82.845

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:06	1.05e+05	7.87e+04	1.34 y	1.84e+05	24.2	
37:03	4.69e+04	3.53e+04	1.33 y	8.21e+04	10.8	
37:28	1.99e+05	1.46e+05	1.37 y	3.45e+05	45.3	
38:35	1.42e+04	1.02e+04	1.40 y	2.43e+04	3.15	1,2,3,4,7,8-HxCDD
38:45	6.80e+04	4.92e+04	1.38 y	1.17e+05	15.3	1,2,3,6,7,8-HxCDD
39:04	1.15e+04	8.48e+03	1.36 y	2.00e+04	2.62	
39:11	3.46e+04	2.54e+04	1.36 y	6.00e+04	8.04	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 27 File: 11AUG10M S: 24 I: 1 F: 4
Acquired: 12-AUG-10 06:48:51

Total Concentration: 900

Unnamed Concentration: 414.232

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	1.98e+06	1.92e+06	1.03 y	3.90e+06	414	
44:11	2.33e+06	2.24e+06	1.04 y	4.57e+06	486	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 27

File: 11AUG10M

S: 24 I: 1 F: 1

Acquired: 12-AUG-10 06:48:51

Total Concentration: 22.2

Unnamed Concentration: 20.994

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:23	6.94e+03	9.22e+03	0.75 y	1.62e+04	0.622	
23:47	2.74e+04	4.07e+04	0.67 y	6.80e+04	2.62	
24:10	2.23e+04	3.27e+04	0.68 y	5.51e+04	2.12	
24:27	1.63e+04	2.30e+04	0.71 y	3.93e+04	1.51	
24:43	1.79e+04	2.10e+04	0.86 y	3.89e+04	1.50	
24:57	9.63e+03	1.35e+04	0.71 y	2.31e+04	0.891	
25:20	1.67e+04	1.91e+04	0.88 y	3.58e+04	1.38	
25:26	2.14e+04	2.60e+04	0.82 y	4.74e+04	1.82	
25:33	1.41e+04	2.05e+04	0.69 y	3.46e+04	1.33	
25:55	1.55e+04	2.37e+04	0.66 y	3.92e+04	1.51	
26:07	8.89e+03	1.02e+04	0.87 y	1.91e+04	0.737	
26:28	1.35e+04	1.81e+04	0.75 y	3.16e+04	1.22	
26:37	1.45e+04	1.80e+04	0.80 y	3.25e+04	1.25	2,3,7,8-TCDF
26:57	2.09e+04	2.92e+04	0.71 y	5.01e+04	1.93	
27:52	1.05e+04	1.50e+04	0.70 y	2.54e+04	0.980	
28:04	9.55e+03	1.14e+04	0.83 y	2.10e+04	0.809	

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

Run: 27 File: 11AUG10M S: 24 I: 1 F: 1
Acquired: 12-AUG-10 06:48:51

Total Concentration: 8.34 Unnamed Concentration: 8.341

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:26	6.72e+04	4.79e+04	1.40 y	1.15e+05	8.34	

Totals class: Total Penta-Furans

Entry #: 44

Run: 27 File: 11AUG10M S: 24 I: 1 F: 2
Acquired: 12-AUG-10 06:48:51

Total Concentration: 18.8

Unnamed Concentration: 17.301

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:03	1.44e+04	9.35e+03	1.54 y	2.38e+04	1.72	
30:13	6.48e+04	4.63e+04	1.40 y	1.11e+05	8.05	
30:56	2.62e+04	1.89e+04	1.38 y	4.51e+04	3.27	
31:50	2.42e+04	1.60e+04	1.52 y	4.02e+04	2.91	
32:47	1.18e+04	8.85e+03	1.33 y	2.06e+04	1.51	2,3,4,7,8-PeCDF
32:50	1.10e+04	7.62e+03	1.45 y	1.86e+04	1.35	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 27 File: 11AUG10M
Acquired: 12-AUG-10 06:48:51

S: 24 I: 1 F: 3

Total Concentration: 82.9

Unnamed Concentration: 73.887

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:14	4.70e+04	3.75e+04	1.25 y	8.46e+04	6.15	
35:30	1.81e+05	1.45e+05	1.25 y	3.26e+05	23.7	
36:24	3.17e+05	2.62e+05	1.21 y	5.79e+05	42.1	
37:01	7.35e+03	6.74e+03	1.09 y	1.41e+04	1.02	
37:11	3.22e+04	2.55e+04	1.26 y	5.76e+04	4.00	1,2,3,4,7,8-HxCDF
37:23	1.65e+04	1.41e+04	1.17 y	3.06e+04	2.14	1,2,3,6,7,8-HxCDF
38:06	6.94e+03	6.01e+03	1.15 y	1.30e+04	0.941	
38:20	2.19e+04	1.62e+04	1.35 y	3.81e+04	2.84	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 27 File: 11AUG10M
Acquired: 12-AUG-10 06:48:51

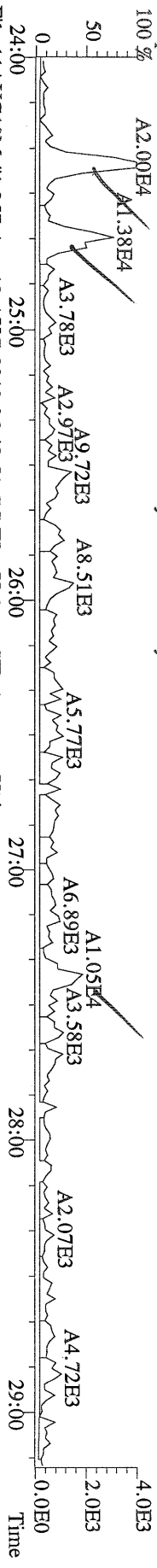
S: 24 I: 1 F: 4

Total Concentration: 363

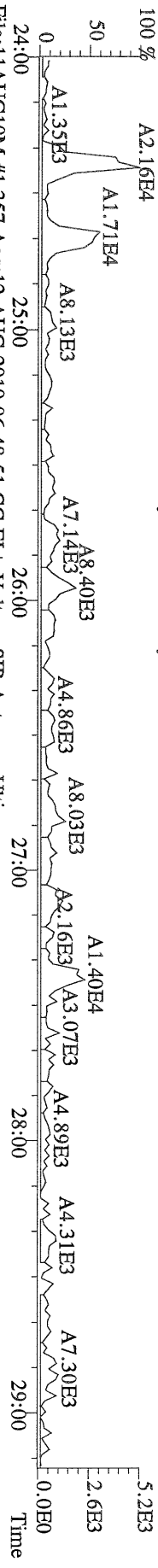
Unnamed Concentration: 247.834

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	6.85e+05	6.37e+05	1.08 y	1.32e+06	111	1,2,3,4,6,7,8-HpCDF
42:49	1.42e+04	1.33e+04	1.07 y	2.76e+04	2.32	
43:06	1.53e+06	1.39e+06	1.10 y	2.92e+06	246	
45:05	2.82e+04	2.51e+04	1.12 y	5.33e+04	4.44	1,2,3,4,7,8,9-HpCDF

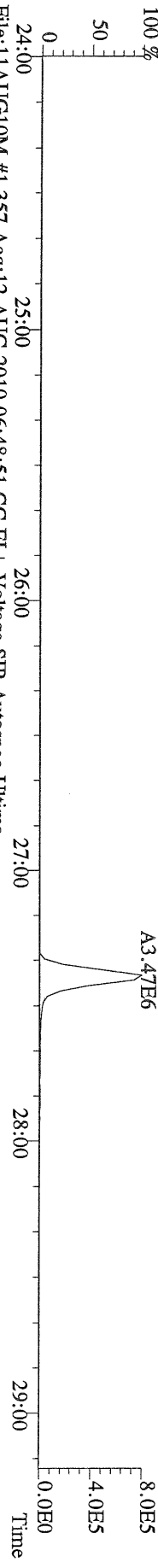
File:11AUG10M #1-357 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



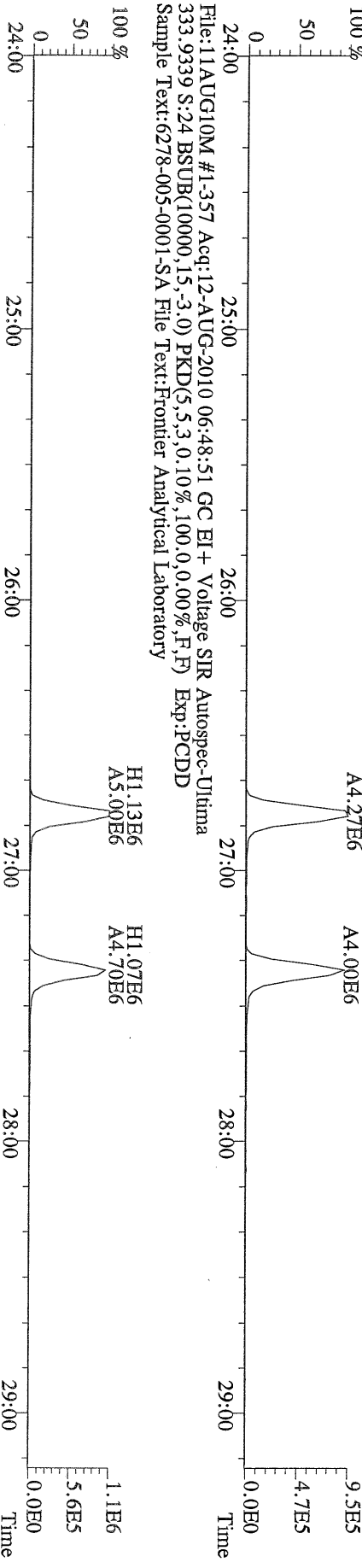
File:11AUG10M #1-357 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



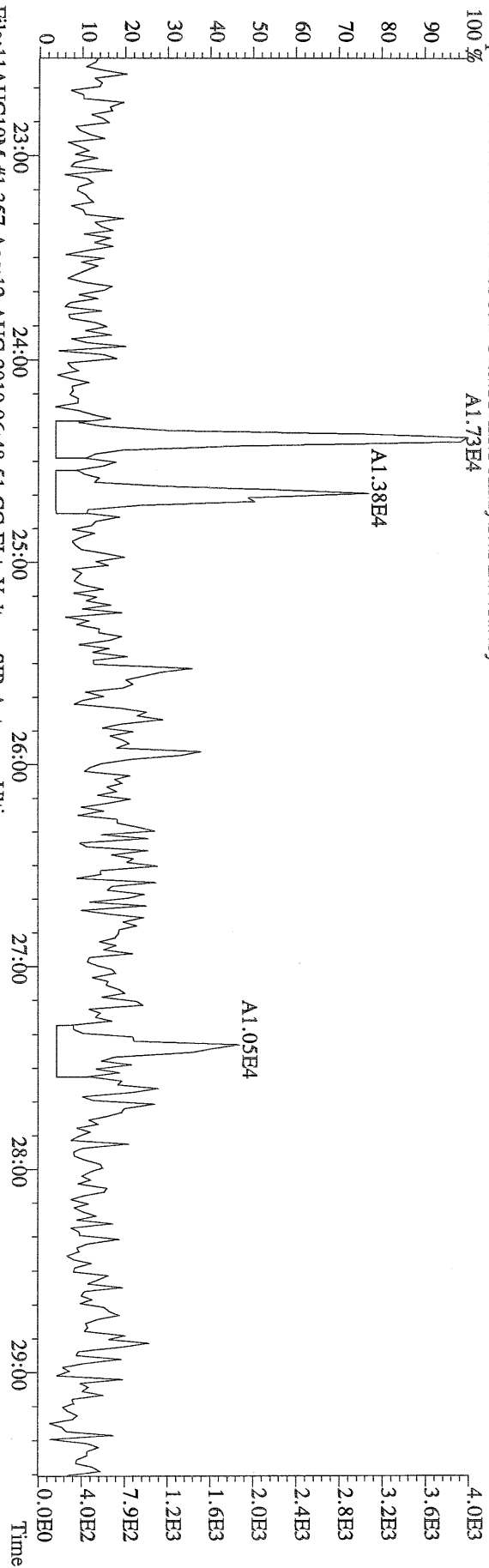
File:11AUG10M #1-357 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 331.9368 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



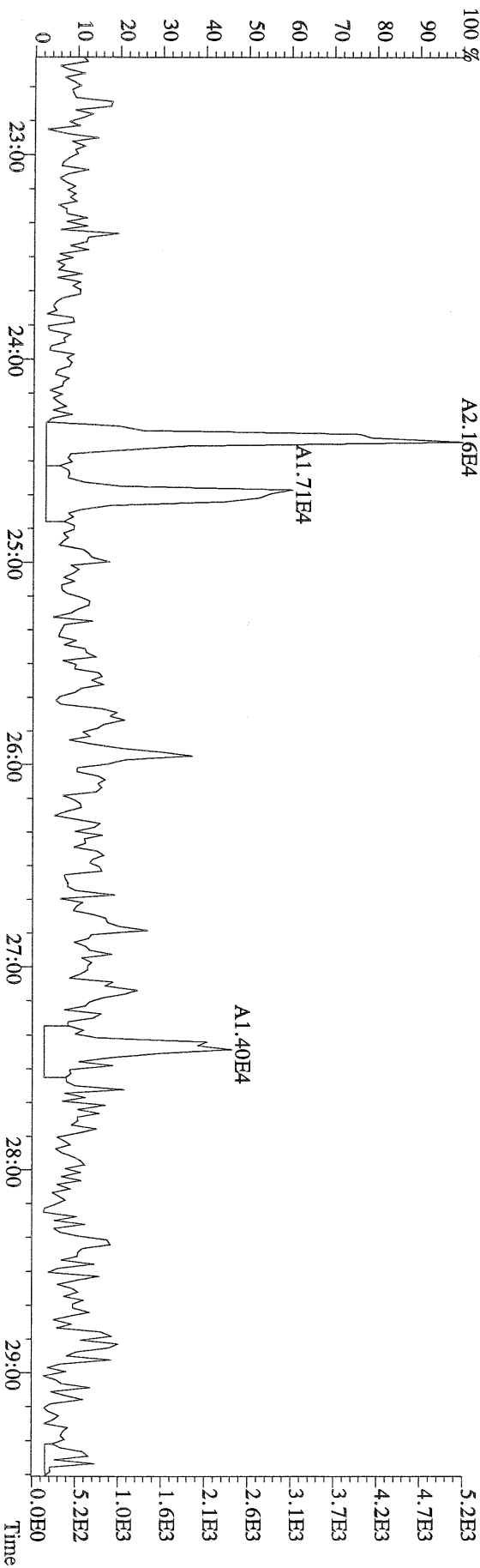
File:11AUG10M #1-357 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 333.9339 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



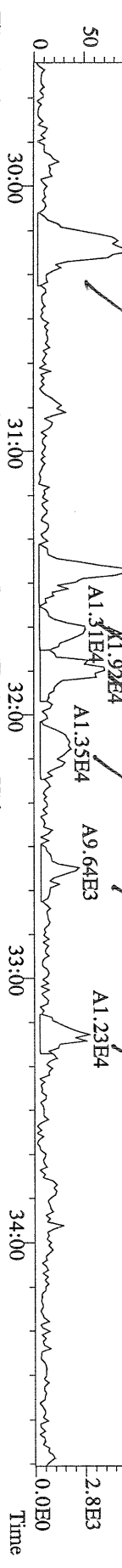
File: 11AUG10M #1-357 Acq: 12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S: 24 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp: PCDD
Sample Text: 6278-005-0001-SA File Text: Frontier Analytical Laboratory



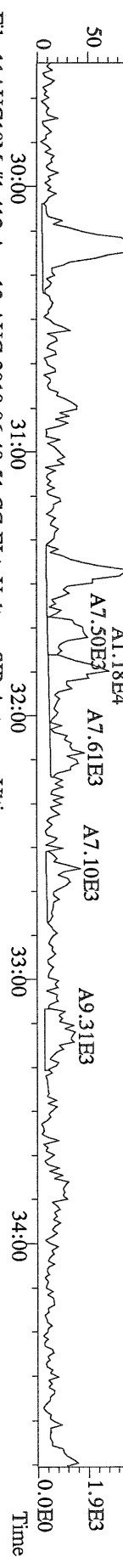
File: 11AUG10M #1-357 Acq: 12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S: 24 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp: PCDD
Sample Text: 6278-005-0001-SA File Text: Frontier Analytical Laboratory



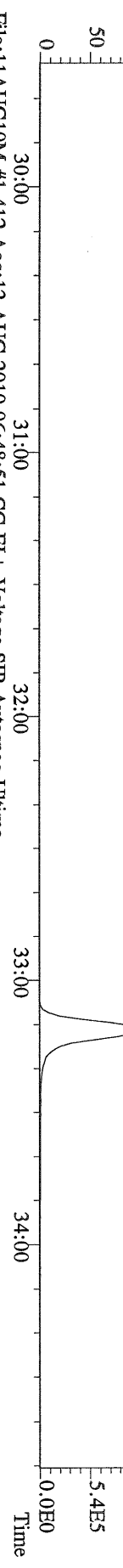
File:11AUG10M #1-412 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



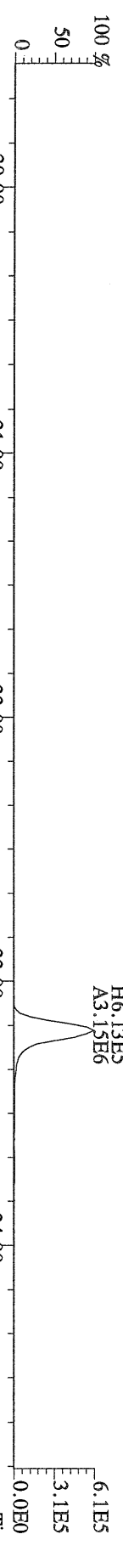
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 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



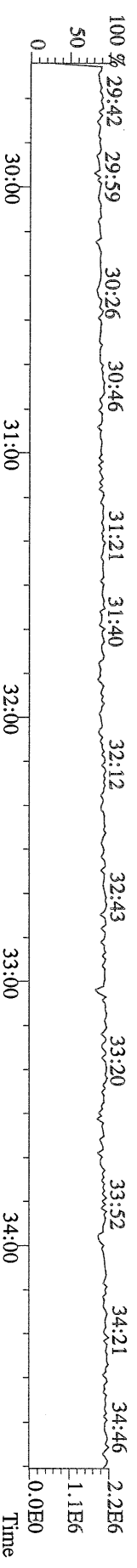
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 367.8949 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



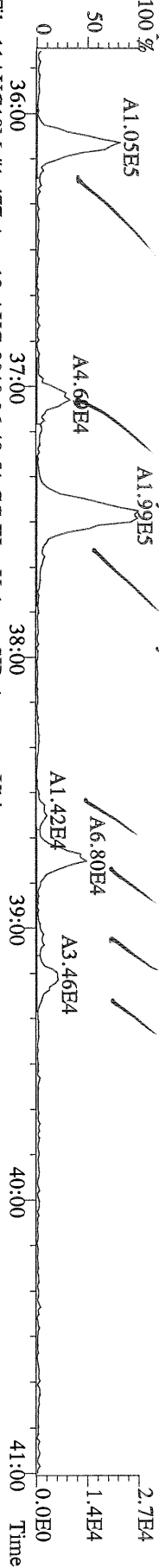
File:11AUG10M #1-412 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 369.8919 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



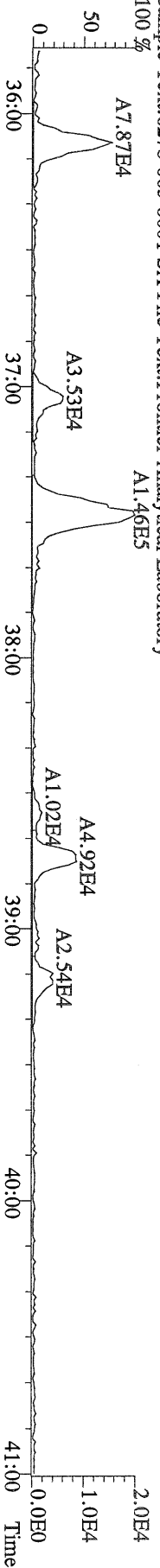
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 366.9792 S:24 F:2 Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



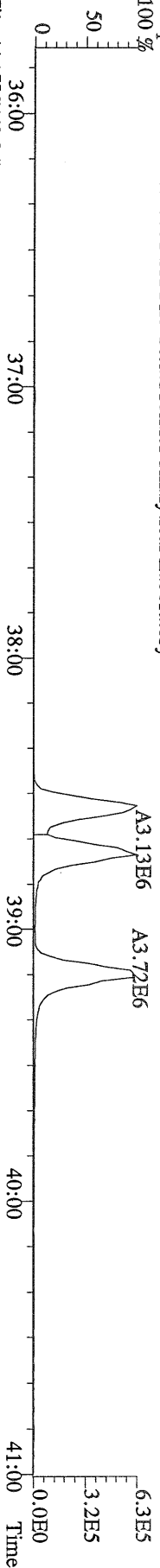
File:11AUG10M #1-477 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



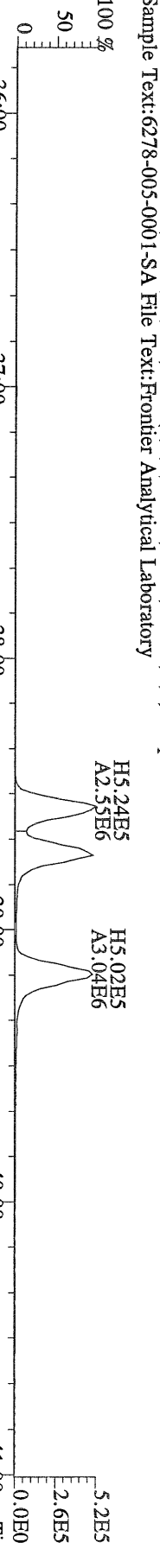
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 391.8127 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



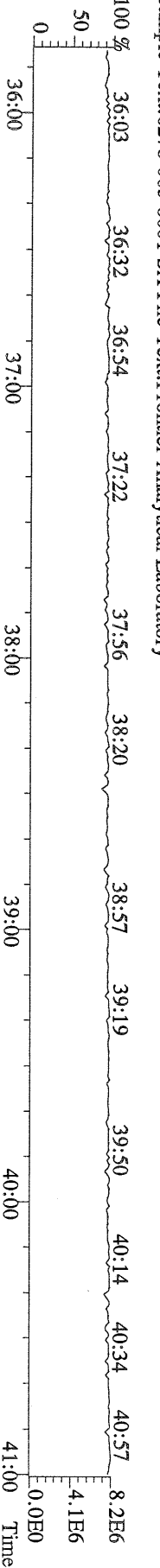
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 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



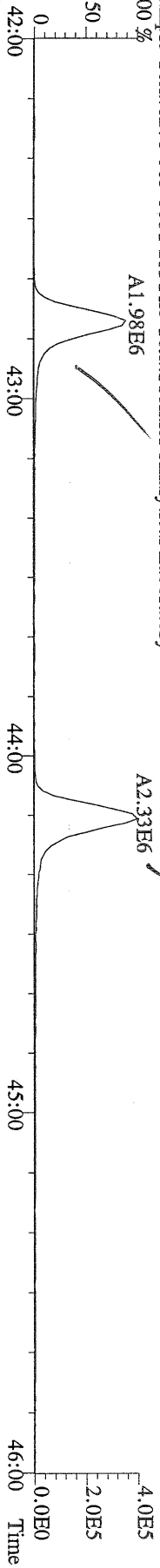
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 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



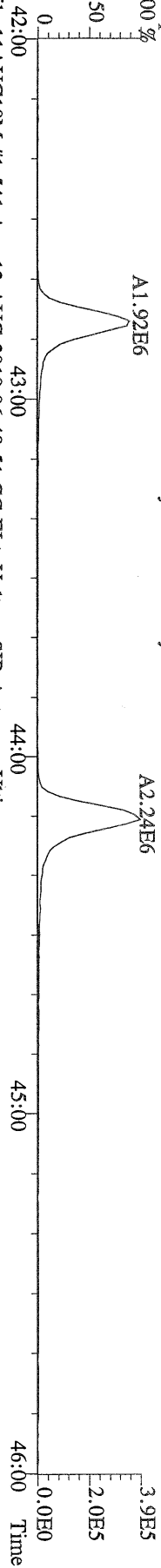
File:11AUG10M #1-477 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:24 F:3 Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



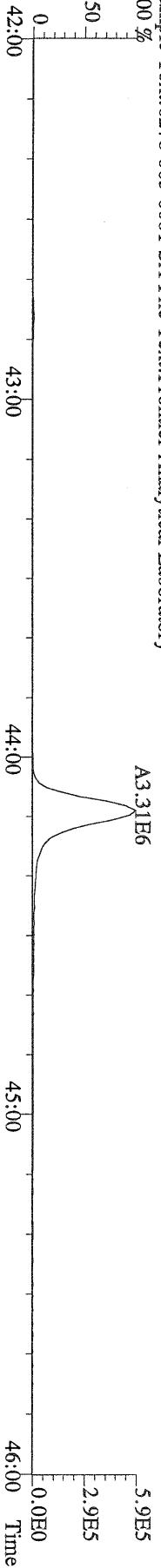
File:11AUG10M #1-541 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



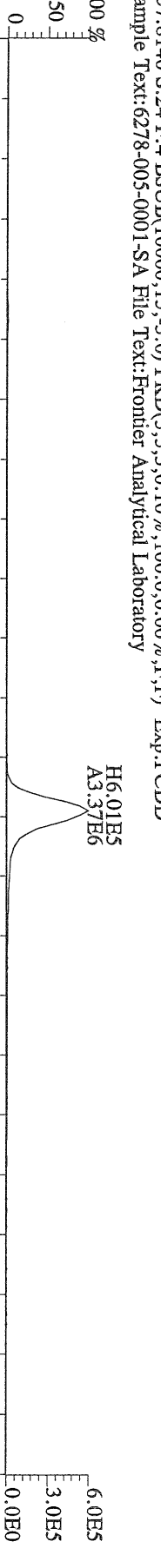
File:11AUG10M #1-541 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



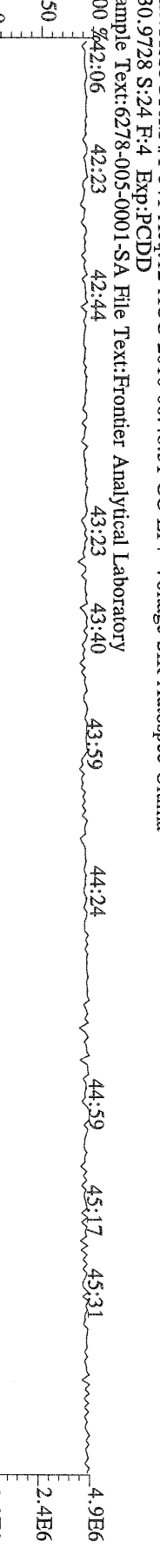
File:11AUG10M #1-541 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:11AUG10M #1-541 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory

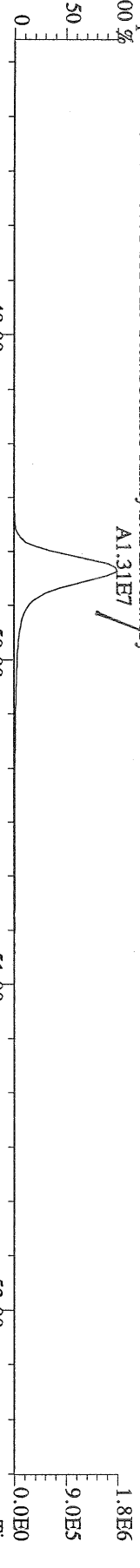


File:11AUG10M #1-541 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:24 F:4 Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory

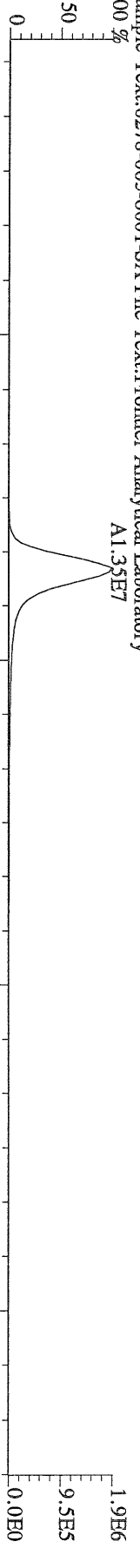


100 %
42:00 42:23 42:44 43:23 43:40 43:59 44:24 44:59 45:17 45:31 46:00
Time

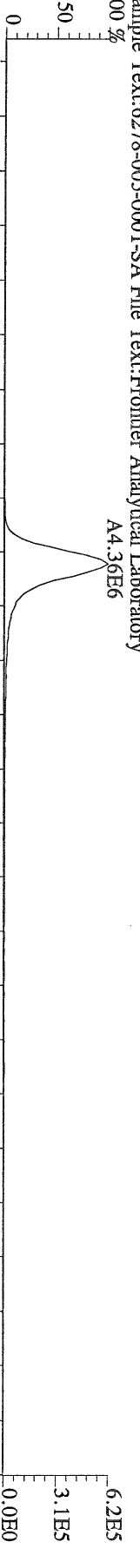
File:11AUG10M #1-347 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory
 100 %



File:11AUG10M #1-347 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory
 100 %



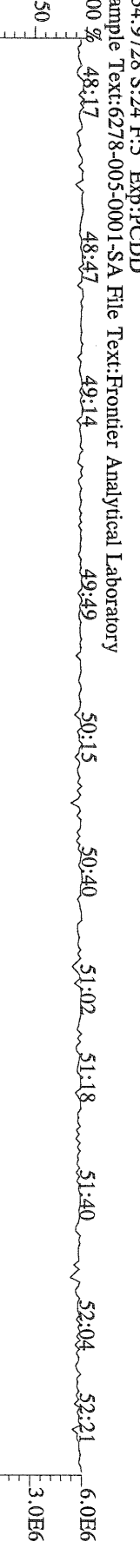
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 469.7780 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory
 100 %



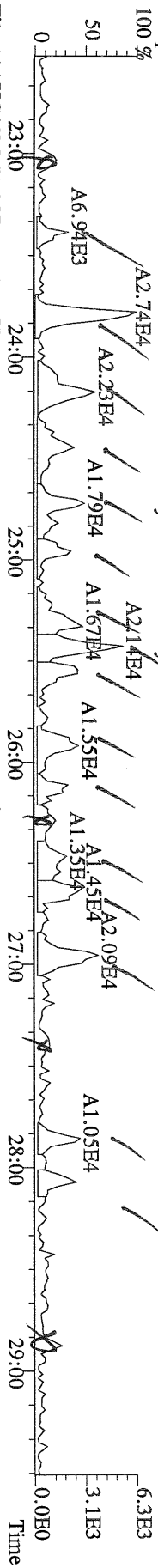
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 471.7750 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



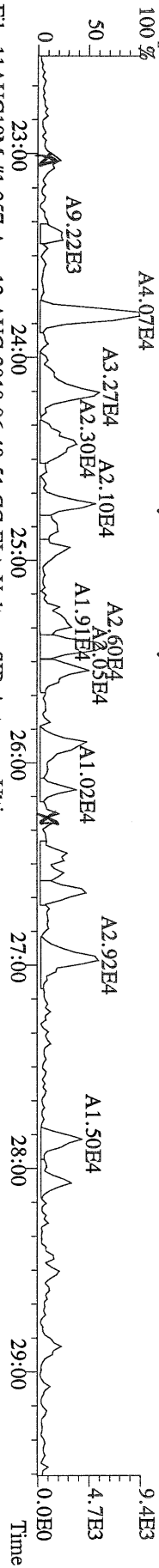
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 454.9728 S:24 F:5 Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



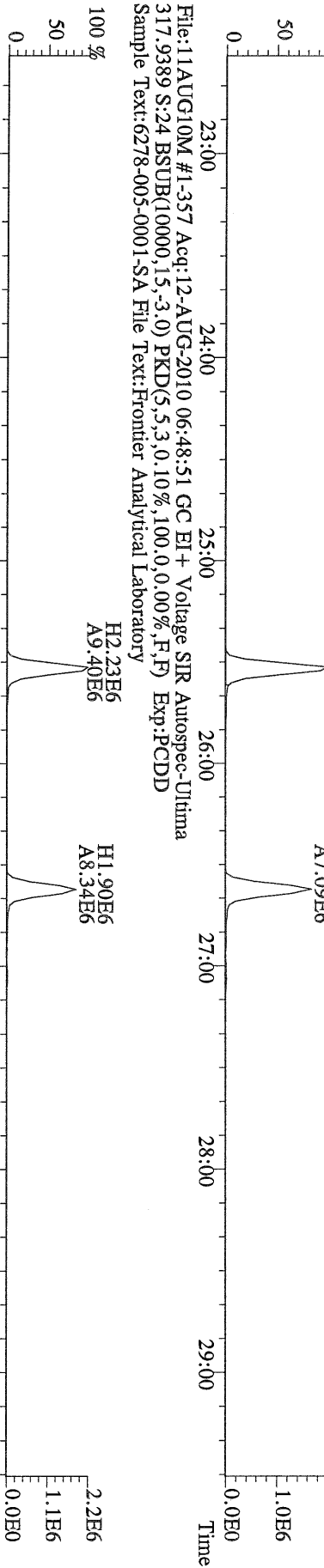
File:11AUG10M #1-357 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



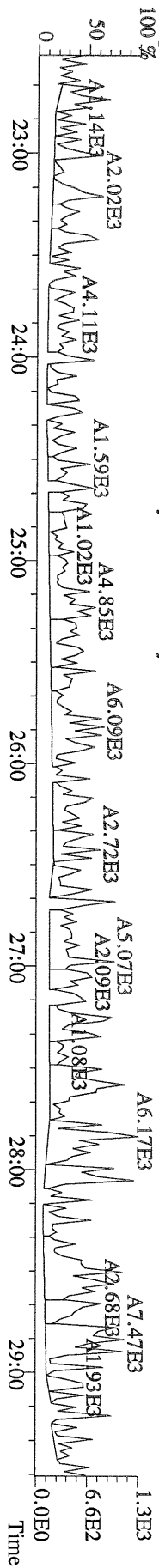
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 305.8987 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



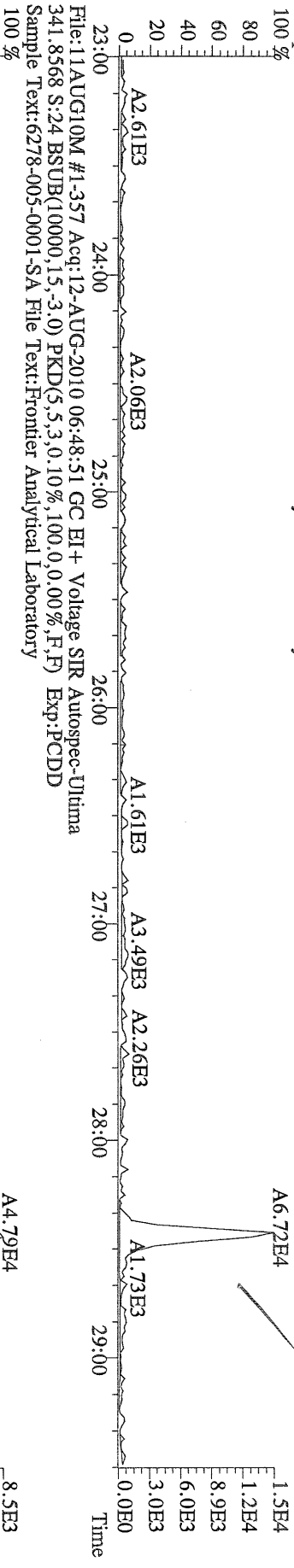
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 315.9419 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



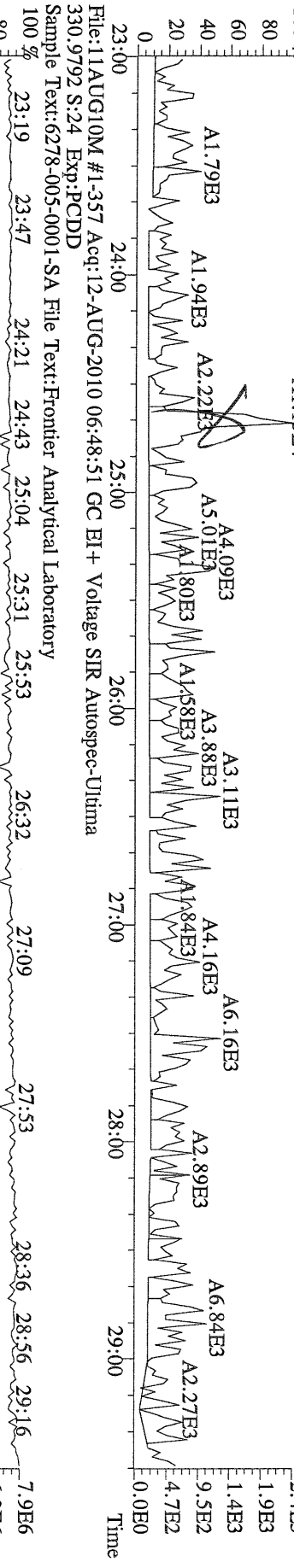
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 375.8364 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-357 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:24 BSUB(10000,15,-3.0) PKD(5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



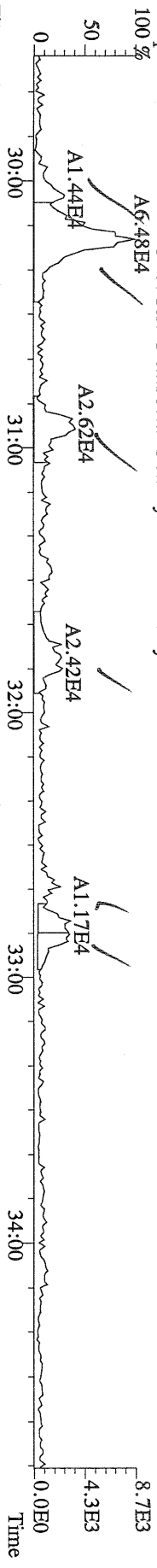
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 409.7974 S:24 BSUB(10000,15,-3.0) PKD(5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



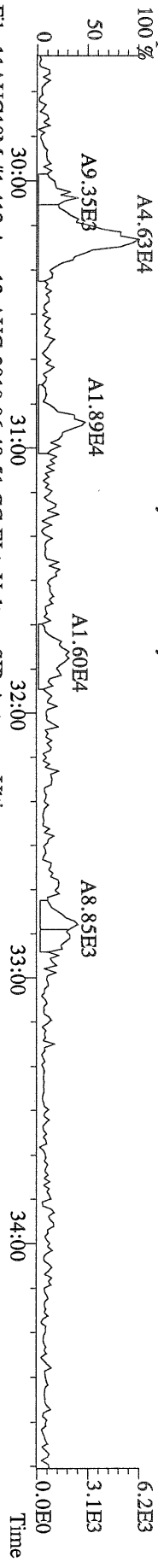
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 330.9792 S:24 Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



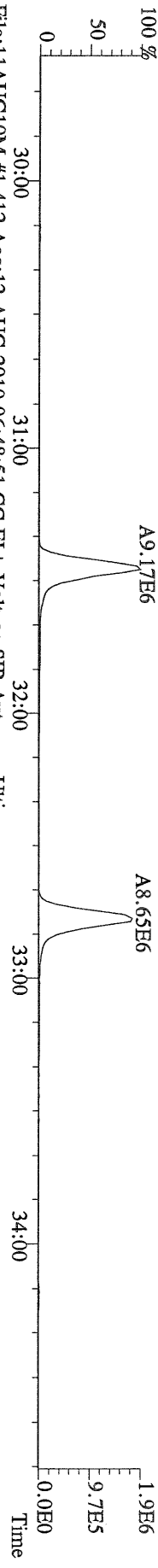
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 339.8597 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



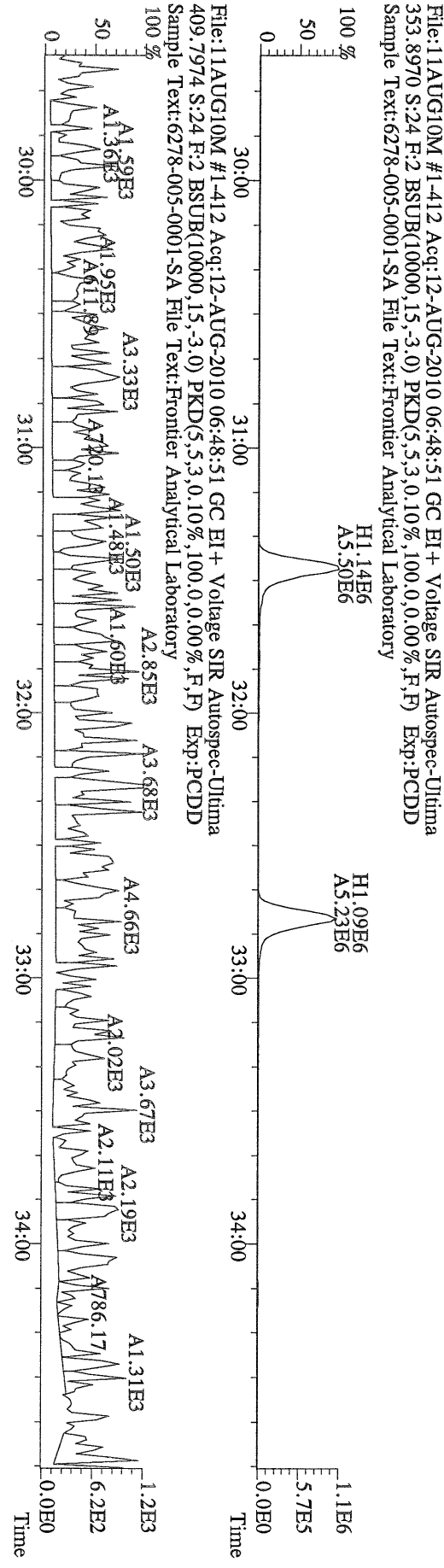
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 341.8568 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



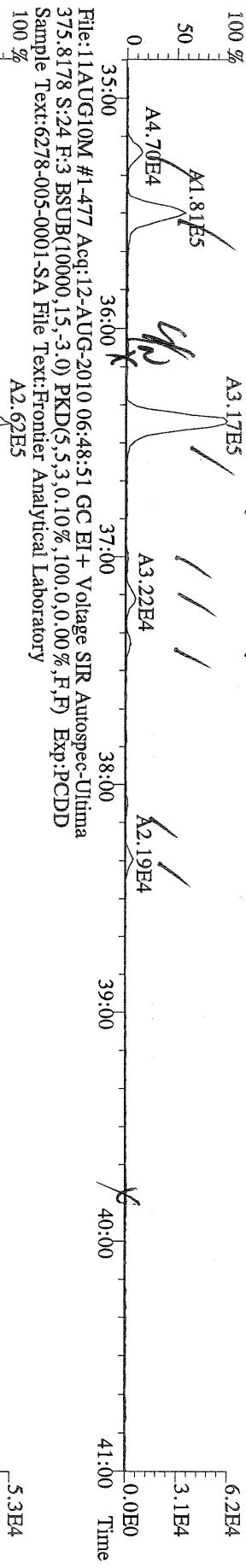
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 351.9000 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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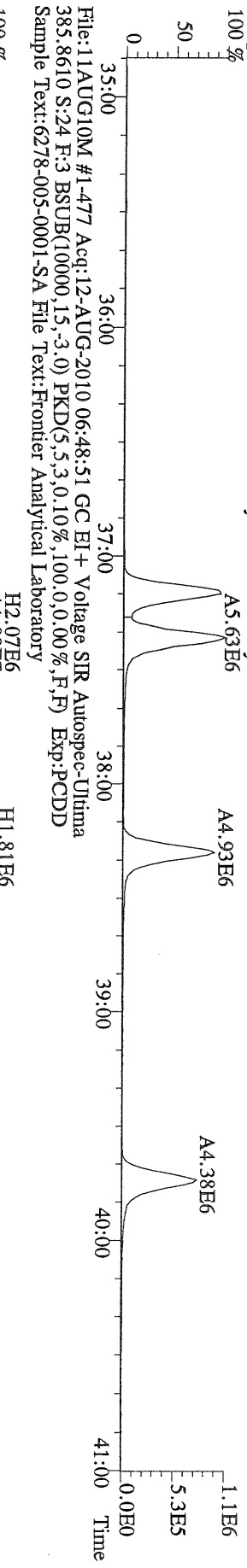
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 409.7974 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



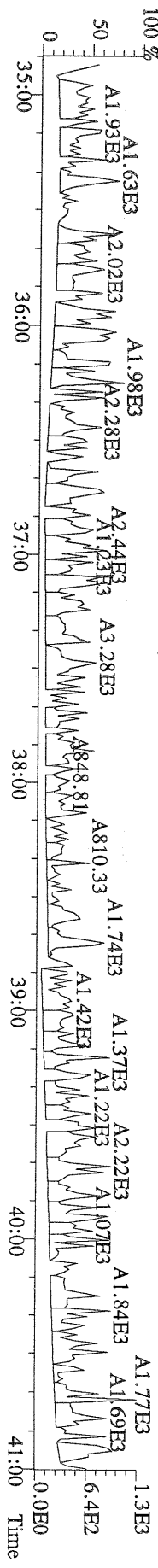
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373.8207 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



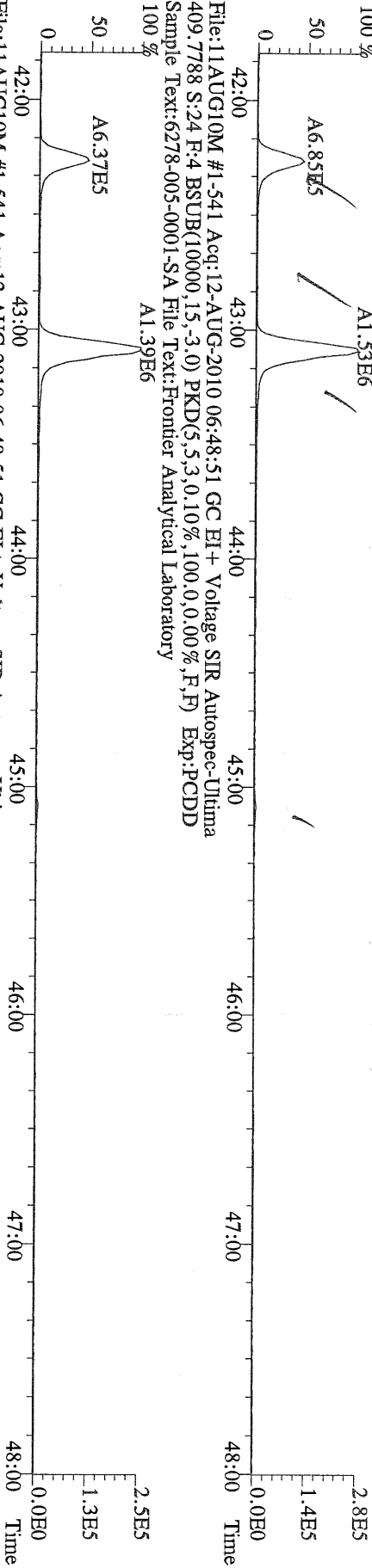
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383.8639 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



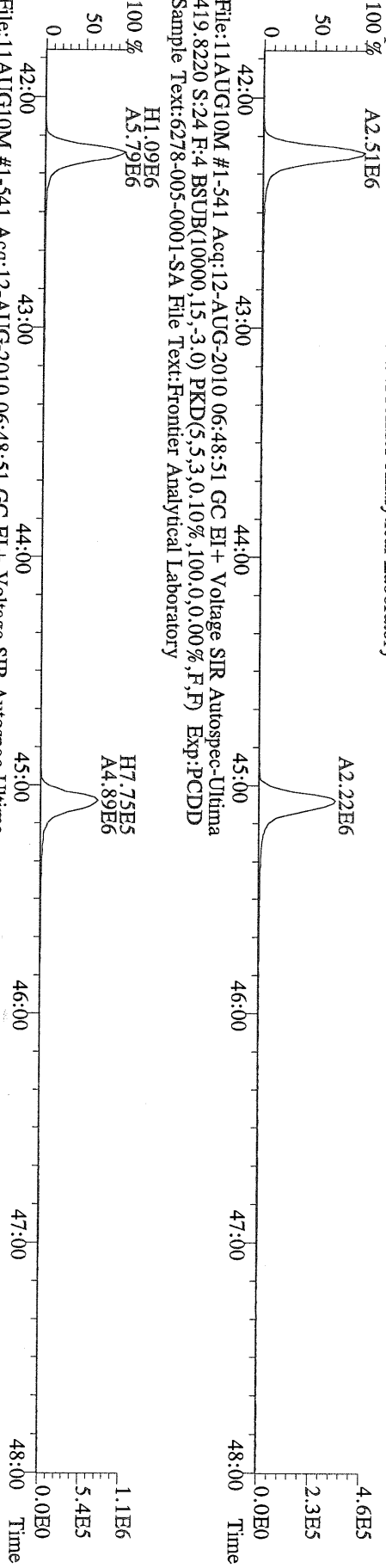
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445.7555 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



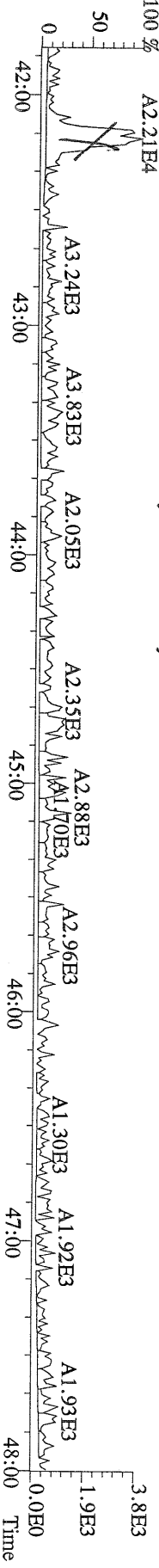
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407.7818 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



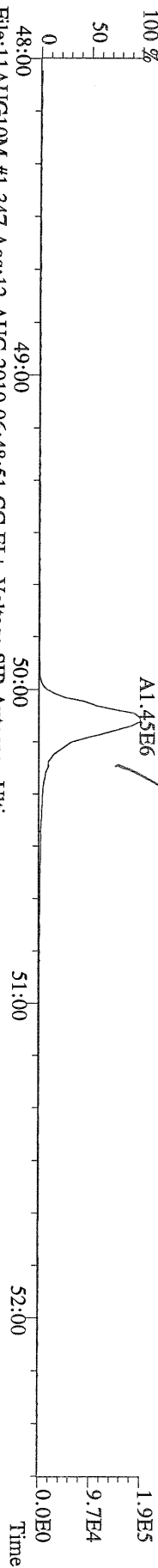
File:11AUG10M #1-541 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



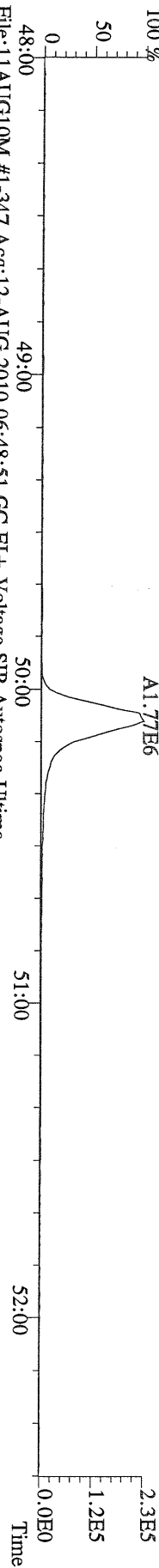
File:11AUG10M #1-541 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



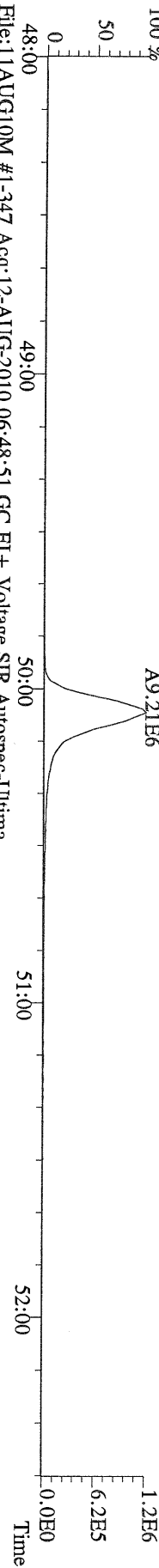
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441.7428 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



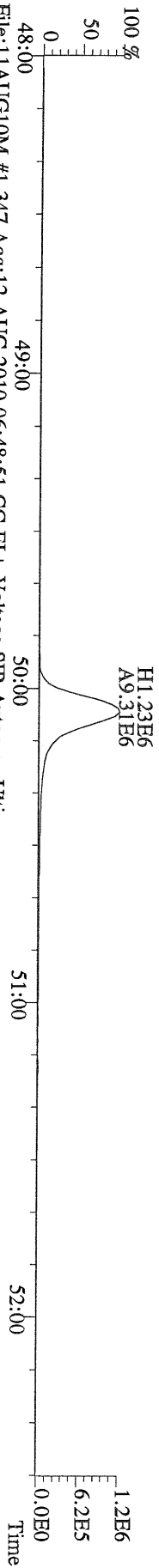
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443.7398 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



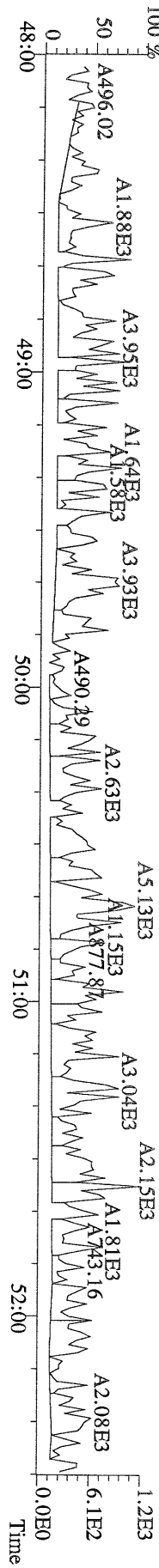
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453.7831 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-347 Acq:12-AUG-2010 06:48:51 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp.:PCDD
Sample Text:6278-005-0001-SA File Text:Frontier Analytical Laboratory



NATO 1989 Tox: 0.114
 WHO 1998 Tox: 0.0853 WHO 2005 Tox: 0.0917
 Conc Qual Fac Noise-1 Noise-2 DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.04	*		2.50	238	333	0.536	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.05	*		2.50	439	297	0.806	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.30	*		2.50	465	367	1.02	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.28	*		2.50	465	367	1.12	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.25	*		2.50	465	367	1.10	0
1,2,3,4,6,7,8-HpCDD	8.95e+04	1.04 y	44:11	1.35	8.22	J	2.50	-	-	*	2
OCDD	1.78e+05	0.99 y	49:43	1.25	31.7		2.50	-	-	*	2
2,3,7,8-TCDF	*	* n	NotFnd	1.62	*		2.50	482	720	0.428	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.92	*		2.50	252	315	0.432	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	252	315	0.424	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	363	371	0.597	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.84	*		2.50	363	371	0.576	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.90	*		2.50	363	371	0.607	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.98	*		2.50	363	371	0.736	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.38	*		2.50	386	330	0.779	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.62	*		2.50	386	330	0.825	0
OCDF	*	* n	NotFnd	0.74	*		2.50	282	329	1.64	0
13C-2,3,7,8-TCDD	1.13e+07	0.84 y	27:22	0.93	860					87.2	
13C-1,2,3,7,8-PeCDD	1.09e+07	1.75 y	33:11	0.81	945					96.0	
13C-1,2,3,4,7,8-HxCDD	7.64e+06	1.18 y	38:34	0.95	875					88.8	
13C-1,2,3,6,7,8-HxCDD	7.47e+06	1.25 y	38:43	1.00	813					82.6	
13C-1,2,3,4,6,7,8-HpCDD	7.92e+06	1.01 y	44:10	0.92	933					94.7	
13C-OCDD	8.85e+06	0.93 y	49:42	0.63	1520					77.0	
13C-2,3,7,8-TCDF	1.89e+07	0.86 y	26:37	0.87	833					84.6	
13C-1,2,3,7,8-PeCDF	1.68e+07	1.64 y	31:27	0.81	800					81.2	
13C-2,3,4,7,8-PeCDF	1.62e+07	1.63 y	32:46	0.75	826					83.9	
13C-1,2,3,4,7,8-HxCDF	1.70e+07	0.51 y	37:09	1.74	1060					108	
13C-1,2,3,6,7,8-HxCDF	2.00e+07	0.52 y	37:22	2.17	1000					102	
13C-2,3,4,6,7,8-HxCDF	1.70e+07	0.53 y	38:18	1.82	1010					103	
13C-1,2,3,7,8,9-HxCDF	1.48e+07	0.51 y	39:45	1.49	1080					110	
13C-1,2,3,4,6,7,8-HpCDF	9.20e+06	0.44 y	42:15	1.10	909					92.3	
13C-1,2,3,4,7,8,9-HpCDF	7.75e+06	0.44 y	45:05	0.81	1030					105	
13C-OCDF	1.87e+07	0.95 y	50:05	1.19	1710					86.5	
37Cl-2,3,7,8-TCDD	5.27e+06		27:24	0.93	397					101	
13C-1,2,3,4-TCDD	1.40e+07	0.85 y	26:48	-	20.4						
13C-1,2,3,4-TCDF	2.57e+07	0.87 y	25:33	-	23.8						
13C-1,2,3,7,8,9-HxCDD	9.09e+06	1.23 y	39:10	-	20.8						
Total Tetra-Dioxins	*		NotFnd	1.04	*		2.50	238	333	0.536	0
Total Penta-Dioxins	*		NotFnd	1.05	*		2.50	439	297	0.806	0
Total Hexa-Dioxins	*		NotFnd	1.27	*		2.50	465	367	1.12	0
Total Hepta-Dioxins	1.48e+05		42:48	1.35	13.6		2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.62	*		2.50	482	720	0.428	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.93	*		2.50	252	315	0.432	PeCDF 0
Total Penta-Furans	*		NotFnd	0.93	*		2.50	252	315	0.432	0.00 0
Total Hexa-Furans	*		NotFnd	0.90	*		2.50	363	371	0.736	0
Total Hepta-Furans	*		NotFnd	1.48	*		2.50	386	330	0.825	0

Analyst: 

Date: 8/12/10

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 19

File: 11AUG10M

S: 13 I: 1 F: 4

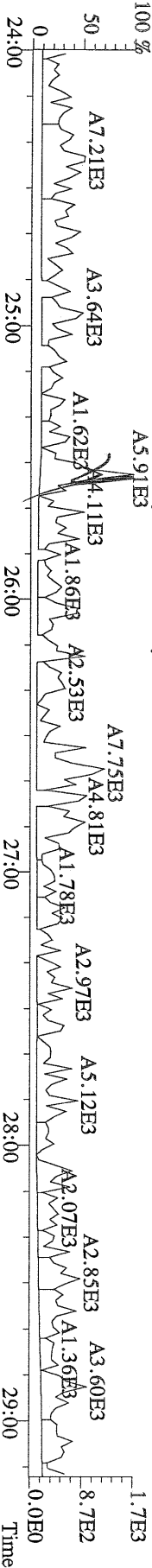
Acquired: 11-AUG-10 20:40:15

Total Concentration: 13.6

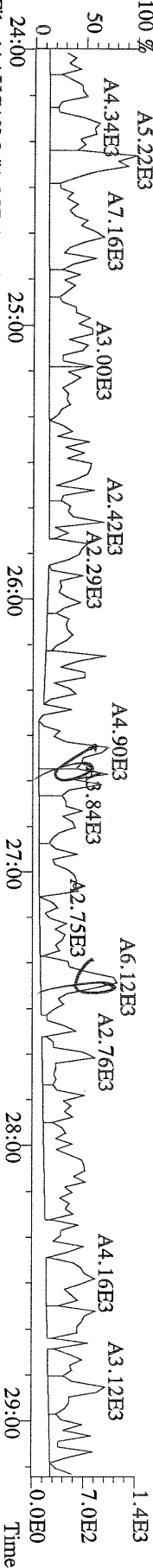
Unnamed Concentration: 5.412

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	3.15e+04	2.74e+04	1.15 y	5.89e+04	5.41	
44:11	4.57e+04	4.38e+04	1.04 y	8.95e+04	8.22	1,2,3,4,6,7,8-HpCDD

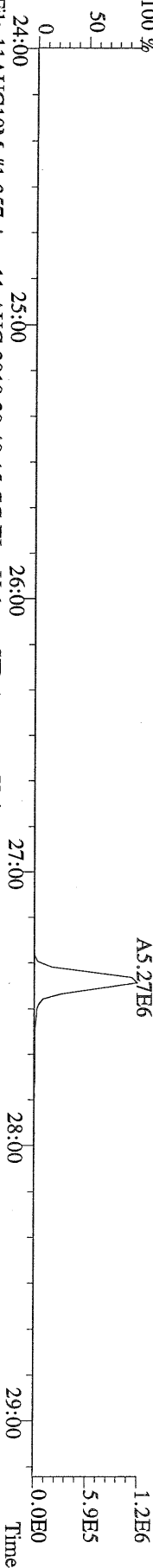
File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



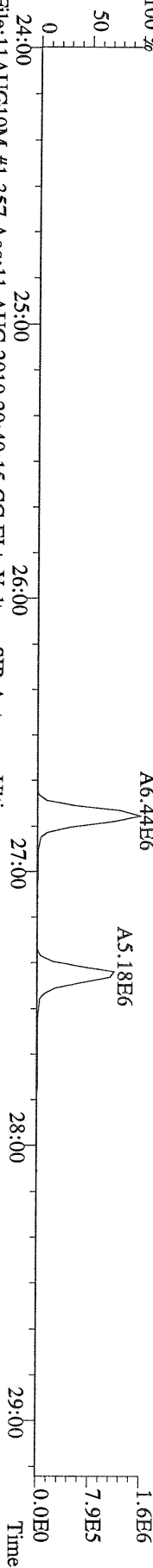
File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



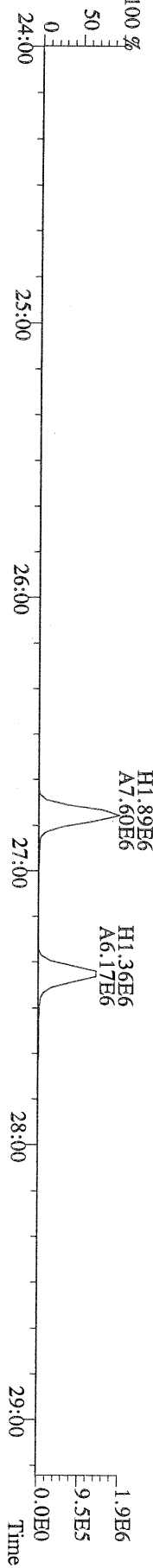
File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



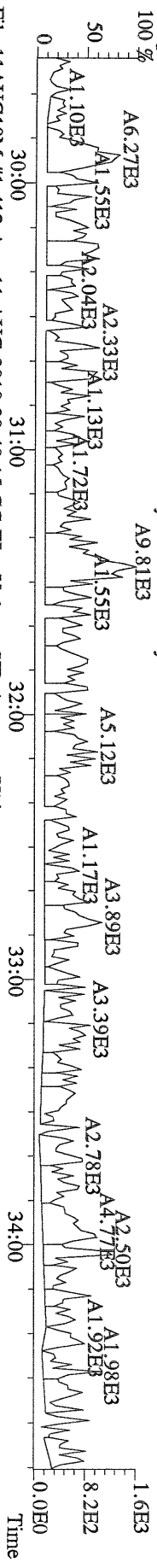
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 331.9368 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



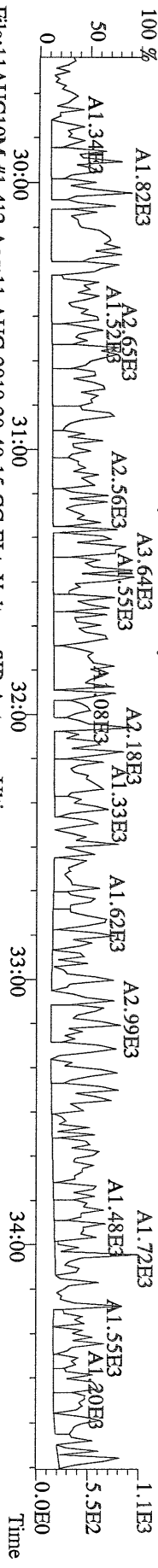
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 333.9339 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



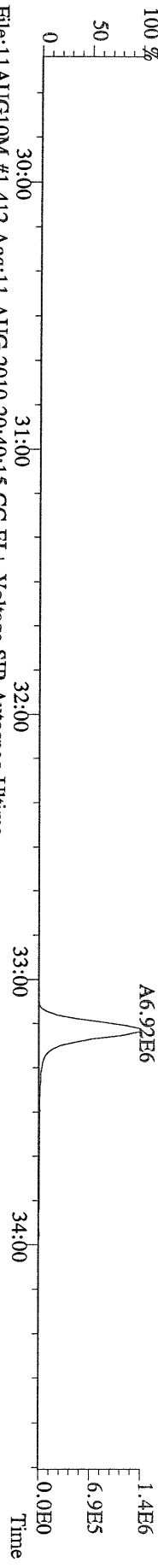
File:11AUG10M #1-412 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
357.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



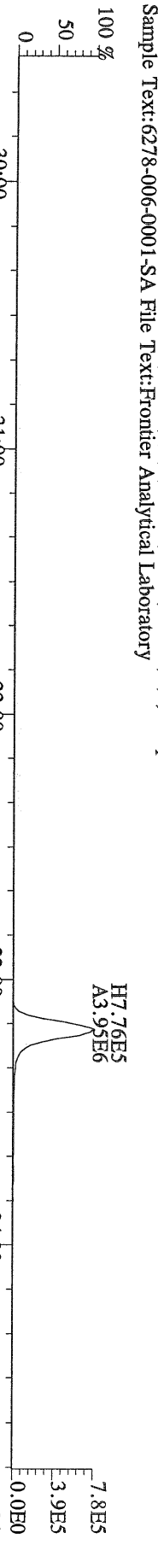
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357.8517 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



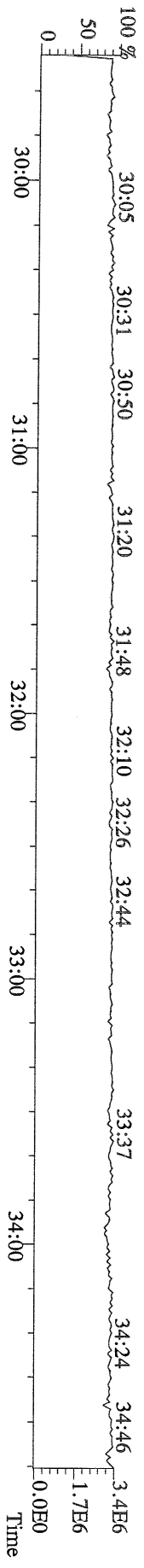
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367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



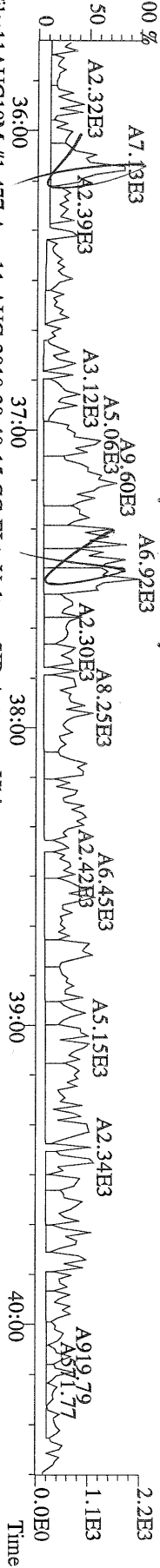
File:11AUG10M #1-412 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



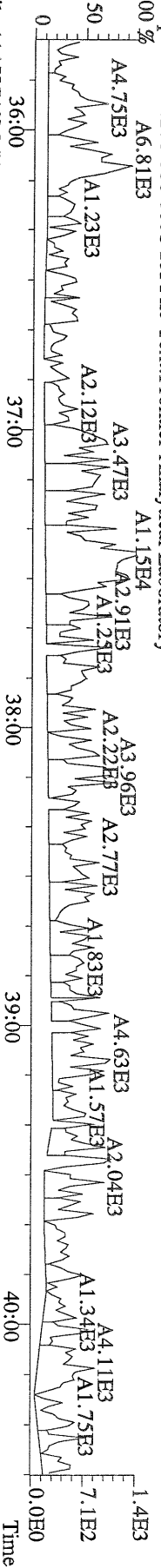
File:11AUG10M #1-412 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:13 F:2 Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



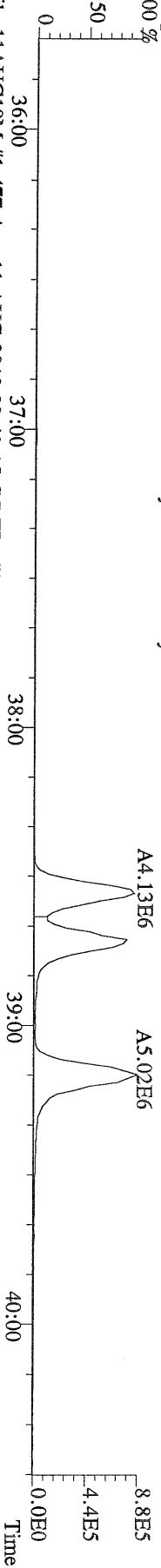
File:11AUG10M #1-477 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



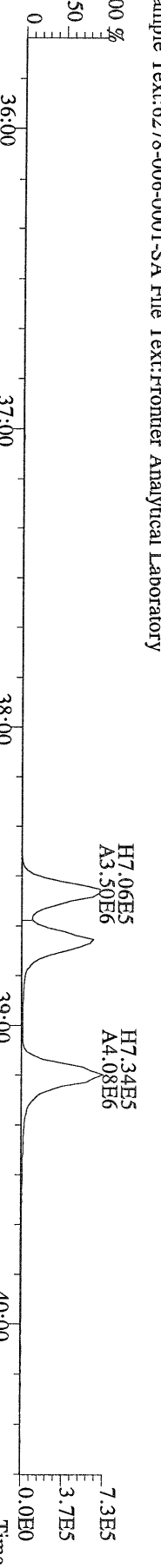
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 391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



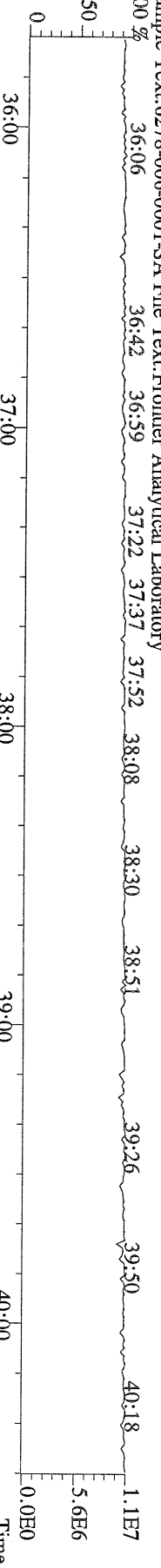
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 401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



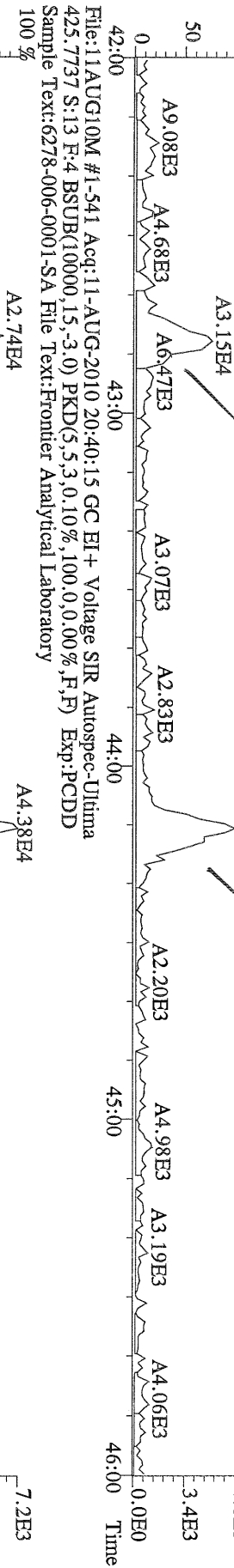
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 403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



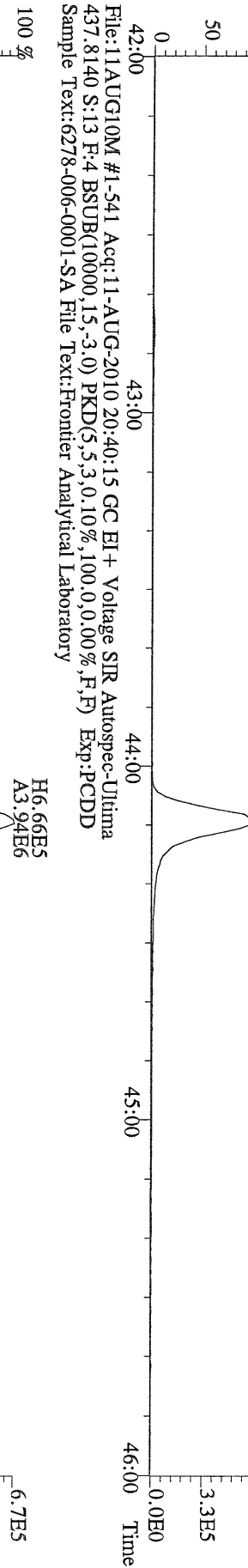
File:11AUG10M #1-477 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:13 F:3 Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



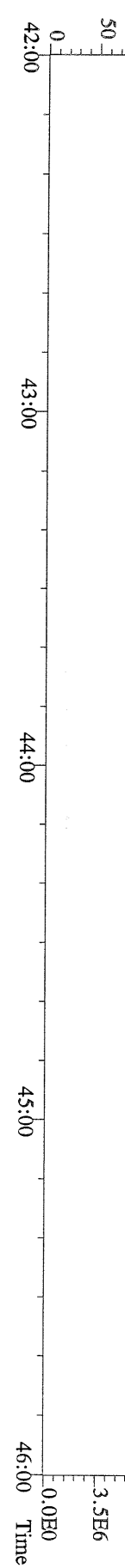
File:11AUG10M #1-541 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory
100 %



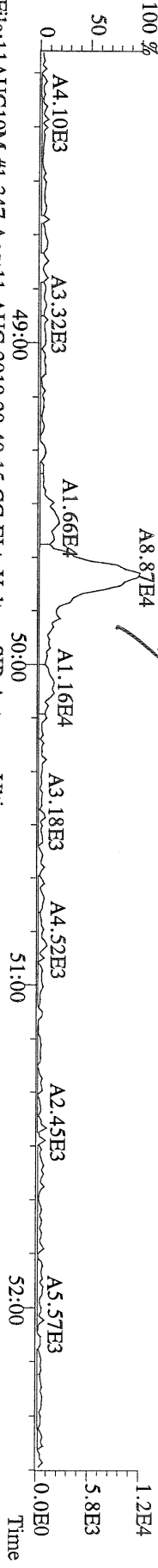
File:11AUG10M #1-541 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory
100 %



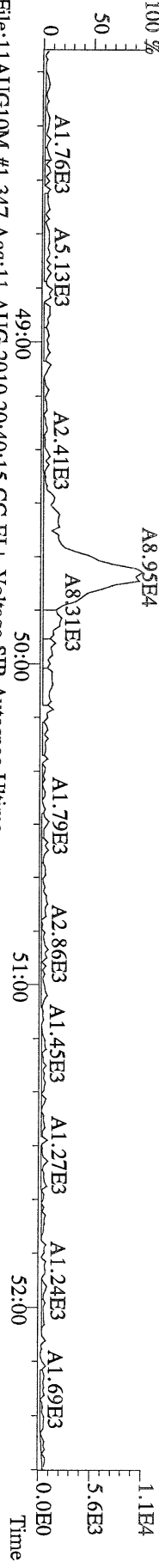
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430.9728 S:13 F:4 Exp:PCDD
Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory
100 %



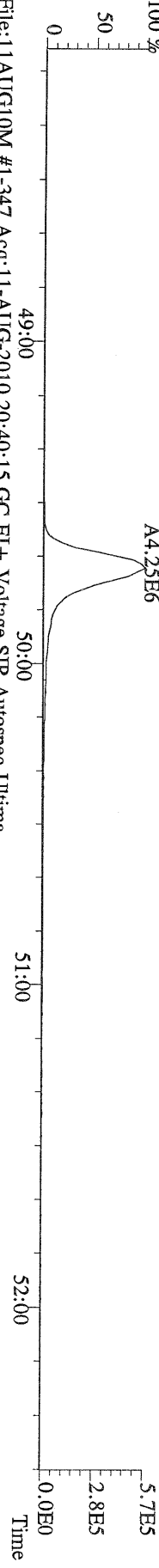
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 457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



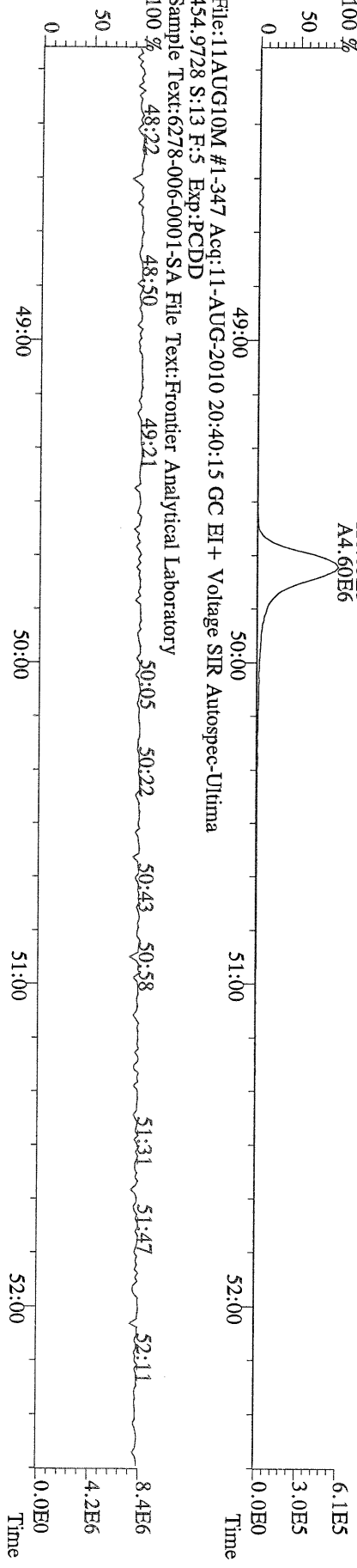
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 459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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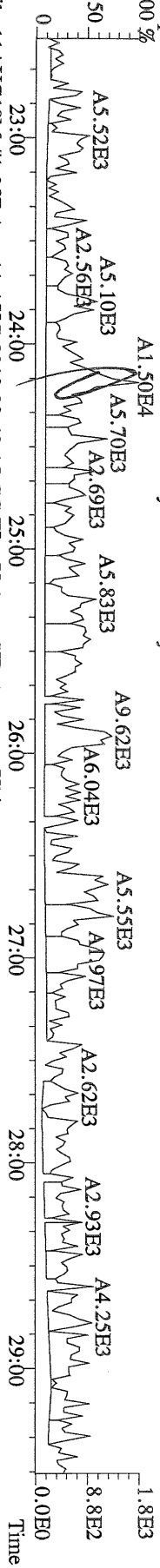
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 471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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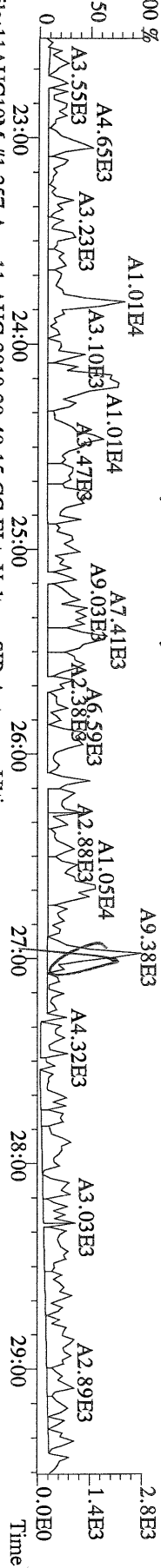
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 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



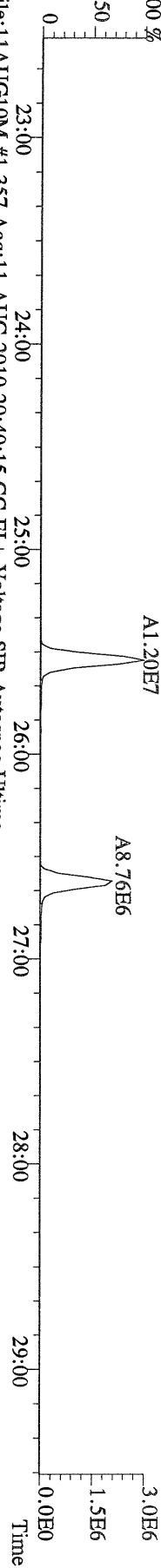
File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



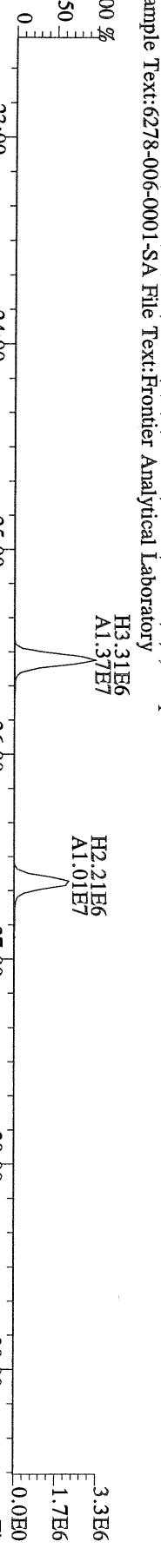
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 305.8987 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



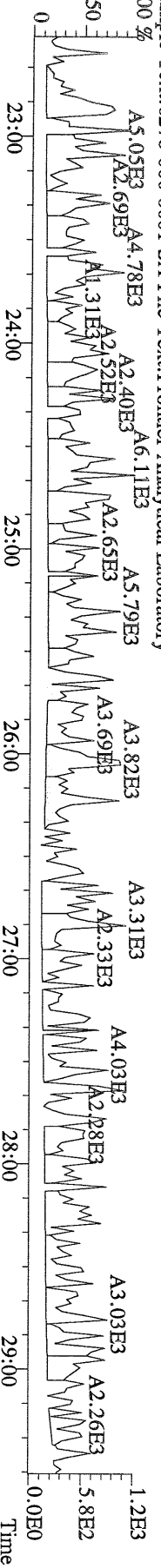
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 315.9419 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



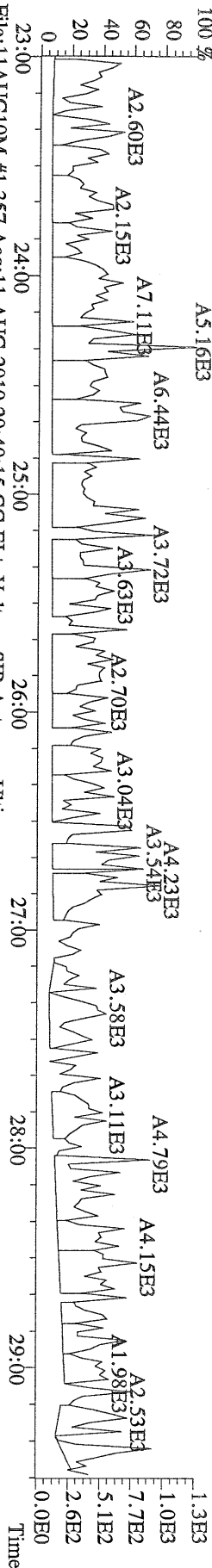
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 317.9389 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



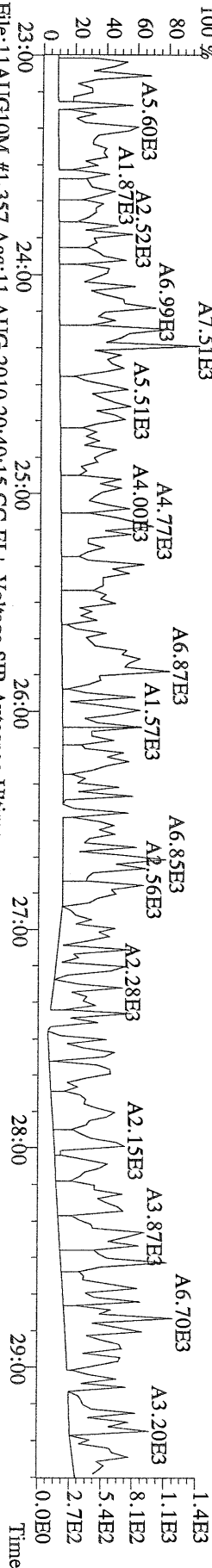
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 375.8364 S:13 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



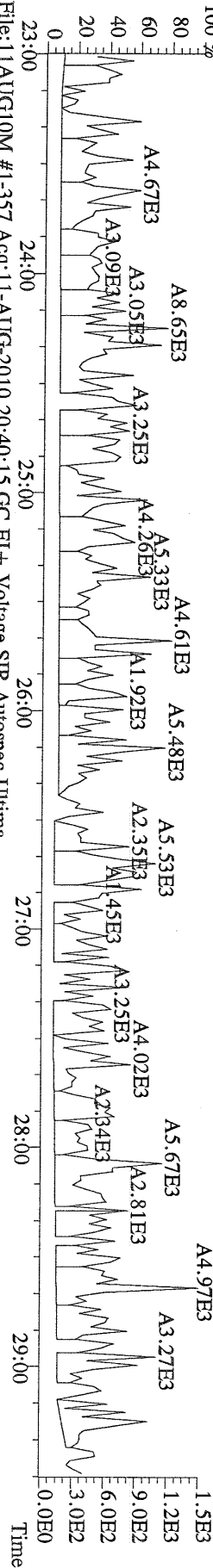
File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory



File:11AUG10M #1-357 Acq:11-AUG-2010 20:40:15 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:13 Exp:PCDD
 Sample Text:6278-006-0001-SA File Text:Frontier Analytical Laboratory

