

November 19, 2008

Ms. Kelly Buettner
Air Toxics LTD.
180 Blue Ravine Road, Suite.B
Folsom, CA 95630-1020

Dear Ms. Buettner,

Enclosed are the results for Frontier Analytical Laboratory project **5175**. This corresponds to your project number **103P0333.001** and purchase order number **0811109**. The two PUF/filter samples received on 11/6/2008 were extracted and analyzed by EPA Method TO-9 for tetra through octa chlorinated dibenzo dioxins and furans. Air Toxics LTD. requested a Level IV data package and a turnaround time of fifteen business days for project **5175**.

The following level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, the cartridge request form, 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. A copy of the entire Level IV data package on compact disk has been sent to you via OnTrac. The enclosed results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **5175**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Director of Air Toxics

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5175**

Received on: **11/06/2008**

Project Due: **12/02/2008** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5175-001-SA	0	103P0333.001	OFF01-110408	EPA TO-9 D/F	PUF / Filter	11/04/2008	NP	11/11/2008
5175-002-SA	0	103P0333.001	OFF02-110408	EPA TO-9 D/F	PUF / Filter	11/04/2008	NP	11/11/2008

FAL Sample ID	Notes
5175-001-SA	Use 103P0333.001 as project identification number and 0811109 as purchase order number as per Kelly Buettner on 11/7/08.
5175-002-SA	Use 103P0333.001 as project identification number and 0811109 as purchase order number as per Kelly Buettner on 11/7/08.

EPA Method TO-9 PCDD/F



FAL ID: 5175-001-MB
Client ID: Method Blank
Matrix: PUF / Filter
Batch No: X1565

Date Extracted: 11-11-2008
Date Received: NA
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 11-14-2008
WHO TEQ: 0.00

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.28		-	0.779				
1,2,3,7,8-PeCDD	ND	1.03		-	0.866				
1,2,3,4,7,8-HxCDD	ND	2.41		-	2.25				
1,2,3,6,7,8-HxCDD	ND	2.55		-	2.20	Total TCDD	ND	1.28	
1,2,3,7,8,9-HxCDD	ND	2.41		-	2.18	Total PeCDD	ND	1.03	
1,2,3,4,6,7,8-HpCDD	ND	2.56		-	2.71	Total HxCDD	ND	2.55	
OCDD	ND	5.70		-	5.66	Total HpCDD	ND	2.56	
2,3,7,8-TCDF	ND	1.02		-	0.744				
1,2,3,7,8-PeCDF	ND	1.56		-	0.941				
2,3,4,7,8-PeCDF	ND	1.65		-	0.982				
1,2,3,4,7,8-HxCDF	ND	1.04		-	1.47				
1,2,3,6,7,8-HxCDF	ND	1.01		-	1.31				
2,3,4,6,7,8-HxCDF	ND	1.13		-	1.51				
1,2,3,7,8,9-HxCDF	ND	1.34		-	1.85	Total TCDF	ND	1.02	
1,2,3,4,6,7,8-HpCDF	ND	0.993		-	1.12	Total PeCDF	ND	1.65	
1,2,3,4,7,8,9-HpCDF	ND	1.30		-	1.53	Total HxCDF	ND	1.34	
OCDF	ND	2.90		-	4.19	Total HpCDF	ND	1.30	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	75.9	40.0 - 130	
13C-1,2,3,7,8-PeCDD	64.2	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	85.9	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	73.5	25.0 - 130	
13C-OCDD	67.0	25.0 - 130	
13C-2,3,7,8-TCDF	71.5	40.0 - 130	
13C-1,2,3,7,8-PeCDF	63.6	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	93.9	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	72.4	25.0 - 130	
13C-OCDF	78.7	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	91.1	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	101	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	94.7	70.0 - 130	
13C-2,3,4,7,8-PeCDF	73.6	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	95.9	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	116	70.0 - 130	

- 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
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst:

Date: 11/14/08

Reviewed By: DN

Date: 11/18/08

EPA Method TO-9
PCDD/F




FAL ID: 5175-001-LCS1/LCS2
Client ID: LCS1/LCS2
Matrix: PUF / Filter

Date Extracted: 11-11-2008
Date Received: NA
LCS1 Amount: 1.00 sample
LCS2 Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
Batch No: X1565
Units: pg/sample

LCS1 Acquired: 11-14-2008
LCS2 Acquired: 11-14-2008
GC Column: DB5

Compound	Amount Spiked (pg)	LCS1 Amount	LCS2 Amount	% RSD	Qual
2,3,7,8-TCDD	200	3.63	3.60	0.830	
1,2,3,7,8-PeCDD	1000	22.1	21.0	5.10	
1,2,3,4,7,8-HxCDD	1000	21.9	20.4	7.09	
1,2,3,6,7,8-HxCDD	1000	23.0	22.1	3.99	
1,2,3,7,8,9-HxCDD	1000	22.5	21.7	3.62	
1,2,3,4,6,7,8-HpCDD	1000	24.2	23.1	4.65	
OCDD	2000	49.2	47.9	2.68	
2,3,7,8-TCDF	200	4.72	4.26	10.2	
1,2,3,7,8-PeCDF	1000	23.6	22.8	3.45	
2,3,4,7,8-PeCDF	1000	23.4	22.3	4.81	
1,2,3,4,7,8-HxCDF	1000	20.7	19.3	7.00	
1,2,3,6,7,8-HxCDF	1000	21.8	20.3	7.13	
2,3,4,6,7,8-HxCDF	1000	20.7	19.6	5.46	
1,2,3,7,8,9-HxCDF	1000	22.2	20.0	10.4	
1,2,3,4,6,7,8-HpCDF	1000	23.3	22.7	2.61	
1,2,3,4,7,8,9-HpCDF	1000	28.5	27.3	4.30	
OCDF	2000	42.9	39.2	9.01	
Internal Standards		% Rec	% Rec	QC Limits	
13C-2,3,7,8-TCDD	4000	91.5	88.5	40.0 - 130	
13C-1,2,3,7,8-PeCDD	4000	83.4	76.9	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	4000	89.7	95.1	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	4000	90.5	88.6	25.0 - 130	
13C-OCDD	8000	88.1	79.9	25.0 - 130	
13C-2,3,7,8-TCDF	4000	86.8	85.4	40.0 - 130	
13C-1,2,3,7,8-PeCDF	4000	89.2	79.2	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	4000	92.8	99.9	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	4000	86.5	83.3	25.0 - 130	
13C-OCDF	8000	104	99.5	25.0 - 130	
Cleanup Surrogate					
13C-1,2,3,7,8,9-HxCDF	4000	97.6	103	40.0 - 130	
Pre Spike Surrogate		% Rec	% Rec	QC Limits	
37Cl-2,3,7,8-TCDD	4000	104	103	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	4000	103	97.1	70.0 - 130	
13C-2,3,4,7,8-PeCDF	4000	73.7	71.7	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	4000	105	100	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	4000	130	126	70.0 - 130	

Analyst: 
Date: 11/18/08

Reviewed By: DN
Date: 11/18/08

EPA Method TO-9 PCDD/F



FAL ID: 5175-001-SA
Client ID: OFF01-110408
Matrix: PUF / Filter
Batch No: X1565

Date Extracted: 11-11-2008
Date Received: 11-06-2008
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 11-14-2008
WHO TEQ: 25.6

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.16		-	0.779				
1,2,3,7,8-PeCDD	ND	2.52		-	0.866				
1,2,3,4,7,8-HxCDD	ND	5.29		-	2.25				
1,2,3,6,7,8-HxCDD	ND	5.60		-	2.20	Total TCDD	16.3	-	
1,2,3,7,8,9-HxCDD	ND	5.28		-	2.18	Total PeCDD	17.4	-	J
1,2,3,4,6,7,8-HpCDD	18.5	-	J	0.185	2.71	Total HxCDD	21.7	-	J
OCDD	36.0	-	J	0.00360	5.66	Total HpCDD	31.6	-	J
2,3,7,8-TCDF	17.2	-		1.72	0.744				
1,2,3,7,8-PeCDF	27.1	-	J	1.35	0.941				
2,3,4,7,8-PeCDF	13.4	-	J	6.71	0.982				
1,2,3,4,7,8-HxCDF	53.8	-		5.38	1.47				
1,2,3,6,7,8-HxCDF	37.6	-	J	3.76	1.31				
2,3,4,6,7,8-HxCDF	22.1	-	J	2.21	1.51				
1,2,3,7,8,9-HxCDF	17.6	-	J	1.76	1.85	Total TCDF	282	-	
1,2,3,4,6,7,8-HpCDF	165	-		1.65	1.12	Total PeCDF	274	-	
1,2,3,4,7,8,9-HpCDF	79.9	-		0.799	1.53	Total HxCDF	304	-	
OCDF	616	-		0.0616	4.19	Total HpCDF	349	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.8	40.0 - 130	
13C-1,2,3,7,8-PeCDD	75.5	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	94.8	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	83.1	25.0 - 130	
13C-OCDD	79.5	25.0 - 130	
13C-2,3,7,8-TCDF	86.6	40.0 - 130	
13C-1,2,3,7,8-PeCDF	75.0	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	105	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	84.8	25.0 - 130	
13C-OCDF	95.2	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	101	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	104	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	96.4	70.0 - 130	
13C-2,3,4,7,8-PeCDF	75.1	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	94.4	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	125	70.0 - 130	

- 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

S Sample acceptance criteria not met

X Matrix interferences

* Result taken from dilution or reinjection

Analyst: 
Date: 11/18/08

Reviewed By: DN
Date: 11/18/08

EPA Method TO-9 PCDD/F



FAL ID: 5175-002-SA
Client ID: OFF02-110408
Matrix: PUF / Filter
Batch No: X1565

Date Extracted: 11-11-2008
Date Received: 11-06-2008
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 11-14-2008
WHO TEQ: 6.40


Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.20		-	0.779				
1,2,3,7,8-PeCDD	ND	2.23		-	0.866				
1,2,3,4,7,8-HxCDD	ND	4.06		-	2.25				
1,2,3,6,7,8-HxCDD	ND	4.29		-	2.20	Total TCDD	5.09	-	J
1,2,3,7,8,9-HxCDD	ND	4.05		-	2.18	Total PeCDD	ND	2.23	
1,2,3,4,6,7,8-HpCDD	5.65	-	J	0.0565	2.71	Total HxCDD	ND	4.29	
OCDD	17.5	-	J	0.00175	5.66	Total HpCDD	10.1	-	J
2,3,7,8-TCDF	5.20	-	J	0.520	0.744				
1,2,3,7,8-PeCDF	6.23	-	J	0.311	0.941				
2,3,4,7,8-PeCDF	2.94	-	J	1.47	0.982				
1,2,3,4,7,8-HxCDF	14.6	-	J	1.46	1.47				
1,2,3,6,7,8-HxCDF	8.86	-	J	0.886	1.31				
2,3,4,6,7,8-HxCDF	5.89	-	J	0.589	1.51				
1,2,3,7,8,9-HxCDF	4.63	-	J	0.463	1.85	Total TCDF	63.4	-	
1,2,3,4,6,7,8-HpCDF	40.9	-	J	0.409	1.12	Total PeCDF	59.0	-	
1,2,3,4,7,8,9-HpCDF	21.3	-	J	0.213	1.53	Total HxCDF	69.8	-	
OCDF	236	-		0.0236	4.19	Total HpCDF	91.9	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.5	40.0 - 130	
13C-1,2,3,7,8-PeCDD	68.6	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	96.2	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	79.5	25.0 - 130	
13C-OCDD	72.9	25.0 - 130	
13C-2,3,7,8-TCDF	82.7	40.0 - 130	
13C-1,2,3,7,8-PeCDF	72.9	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	105	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	80.6	25.0 - 130	
13C-OCDF	87.0	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	99.8	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	104	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	97.5	70.0 - 130	
13C-2,3,4,7,8-PeCDF	71.2	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	98.6	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	123	70.0 - 130	

- 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
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 

Date: 11/18/08

Reviewed By: 

Date: 11/18/08



Sample Transportation Notice

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page _____ of _____

KELLY BRETTERS

and Sign)

Email

State
Zip

100

[illegible]

Relinquished by: (signature)		Date/Time	Received by: (signature)		Date/Time
<i>[Signature]</i>		11/6/08 1500	<i>[Signature]</i>		11/6/08 1545
Relinquished by: (signature)		Date/Time	Received by: (signature)		Date/Time
Relinquished by: (signature)		Date/Time	Received by: (signature)		Date/Time

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?		Work Order #
					Yes	No	
		NA					

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5175**

Client:	Air Toxics
Client Project ID:	103P0333.001
Date Received:	11/06/2008
Time Received:	03:45 pm
Received By:	GN
Logged In By:	GN
# of Samples Received:	2
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Courier
Tracking Number:	NA
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	2
Cooling Method	Blue 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	11/11/2008
Adequate Sample Volume	Yes
Anomalies or additional comments:	
<p>Use 103P0333.001 as project identification number and 0811109 as purchase order number as per Kelly Buettner on 11/7/08.</p>	



PROJECT REQUEST SHEET

Project #: 5175 Sample #: 1 - 2 Client Manager: DV
Client: Air Toxics Hold Time: 11/11/2008
Matrix: PUF / Filter Extraction Batch: X1565 Due Date: 12/02/2008
Method: EPA TO-9 D/E Storage: R2
SOP: SOPs: EP6A Rev.4 IP6A Rev.2

COMMENTS/INSTRUCTIONS:

Results: 5175

Instrument:

DB5 FAL-3

DB225 _____

DB1 _____

Other _____

Extract/s located in box: "Tolu-ween"

Standards: 5175

Cartridge Request Form

Delivery Date Requested: 10/31/2008

Client Contact: Kelly Buettner
Company Name: Air Toxics LTD.
Company Address: 180 Blue Ravine Road
Folsom, CA 95630
Company Phone: (916) 985-1000 Ext.1025
Company fax: (916) 985-1020
Company PO #: Reference Quote Number 2347

Delivery Address/Contact (If different from above)

Contact Name: Mr. Dick Laubinger
Site Name: Weston Solutions
Site Address: 110 West Warm Springs Road
Henderson, NV 89011
Site Phone: (702) 641-8660

Request Information

Check all that apply and enter in Quantity Needed:

- ☐ MM5 Cartridges.....Quantity: _____
☒ PUF Cartridges.....Quantity: 4 + 3 for qc purposes
☐ PUF/XAD Cartridges.....Quantity: _____

Number/Size/type of filters Required: 5 102mm quartz fiber (Lot: 894862)

Number of Petri dishes requested (if available): 1

Method/s Requested: EPA method TO-9

Preparation Information

XAD Lot Number: N/A

PUF Lot Number: 092608

Pre-Sampling Spike Amount/ID: 25ul Air-PSS (061228A)(V2)

Preparation Chemist Initials: GN

Preparation/Spike Date: 10/30/08

Spike Witness Initials: bb

Special Instructions: _____

Delivery Information

Date Shipped: 10-30-2008

Carrier: Fed-EX

Service Requested: standard overnight

Air Bill Number: 791177441844 25 lbs.

EXTRACTION SHEET

Project #: 5175 Extraction Date: 2008-11-11 Extraction Chemist:GN

Method/Analysis: EPA TO-9 D/F

Procedure: SOX

Solvent: Toluene

[illegible]

AX-21 Charcoal Cleaned	102708	Acetone	48169	Acid Alumina	14003MH	Hexane	48142
Hydrochloric Acid	B08505	Methanol	082664	Methylene Chloride (DCM)	48221	Silica Gel	TA1493434
Sodium Hydroxide	7288	Sodium Sulfate	48094820	Sulfuric Acid	080751	Tetradecane	072385
Toluene	48115	Water	48191	C-18 Empore Discs	320361	Cyclohexane	48149

Comments:

CLEANUP SHEET

Project #: 5175

Method/Analysis: EPA TO-9 D/F

Splits: 1 ^{11/12/08} Split Date: N/A ^{11/11/08} Final Volume: 20.0uL

[illegible]

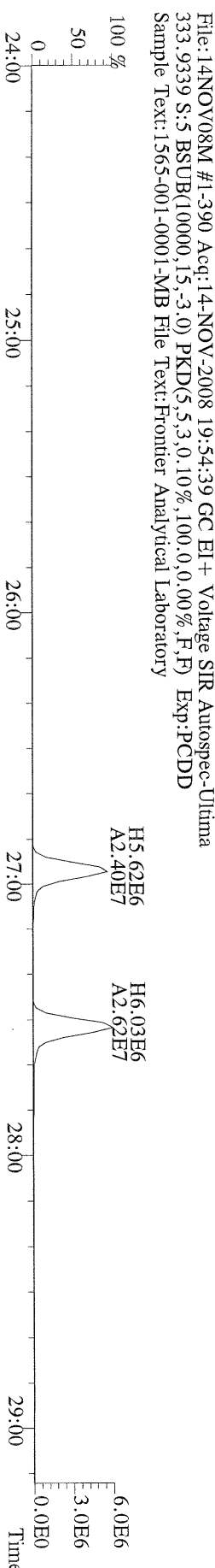
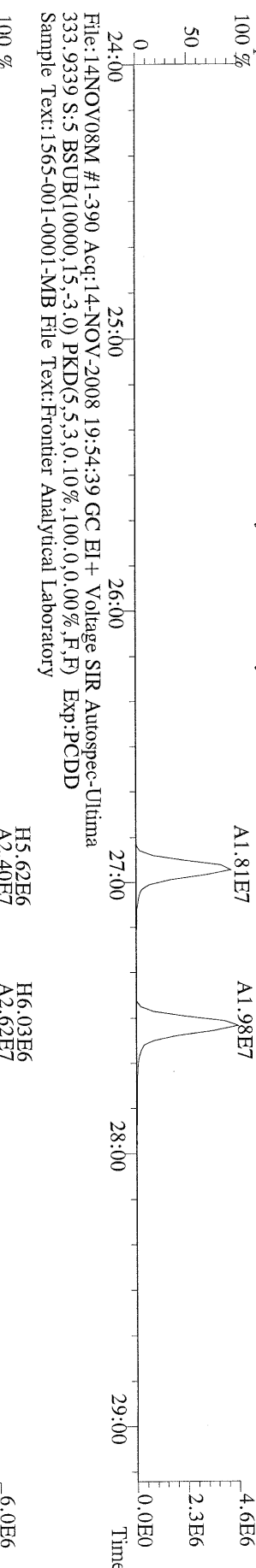
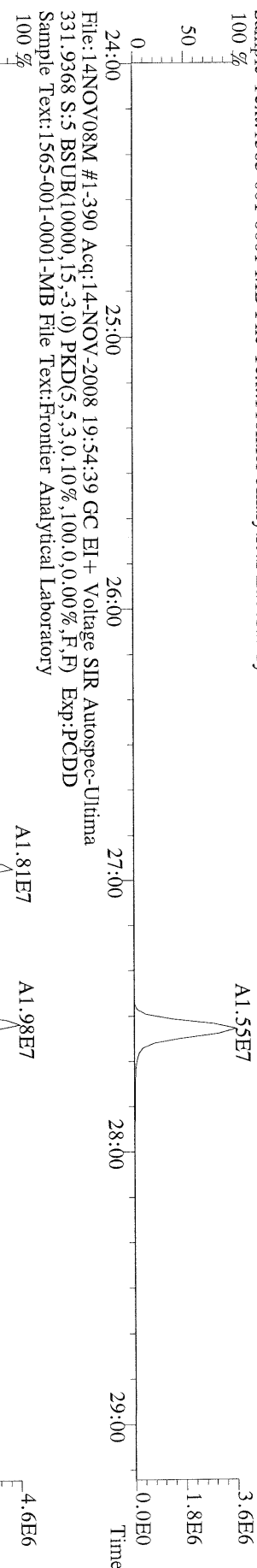
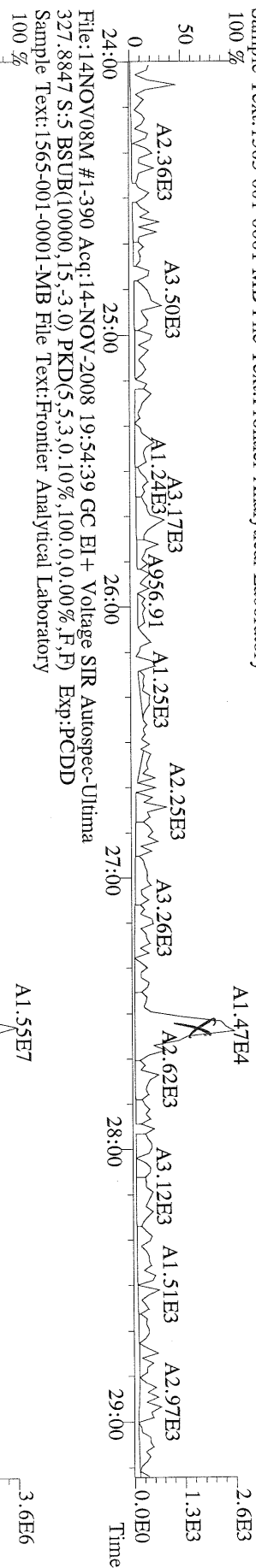
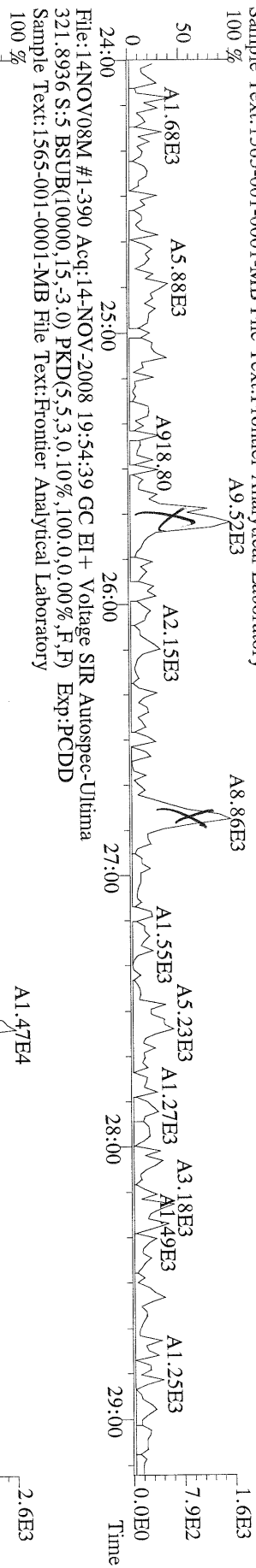
Comments:

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*		2.50	717	1.28	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.48	*		2.50	239	1.03	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.32	*		2.50	440	2.41	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.25	*		2.50	440	2.55	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.32	*		2.50	440	2.41	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.16	*		2.50	345	2.56	
OCDD	*	* n	NotFnd	1.24	*		2.50	447	5.70	
2,3,7,8-TCDF	*	* n	NotFnd	1.00	*		2.50	860	1.02	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.81	*		2.50	518	1.56	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.76	*		2.50	518	1.65	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	398	1.04	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.05	*		2.50	398	1.01	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	398	1.13	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.79	*		2.50	398	1.34	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	273	0.993	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.04	*		2.50	273	1.30	
OCDF	*	* n	NotFnd	0.46	*		2.50	283	2.90	
										Rec
13C-2,3,7,8-TCDD	4.61e+07	0.76 y	27:32	1.44	3030					75.9
13C-1,2,3,7,8-PeCDD	2.27e+07	1.76 y	33:20	0.84	2570					64.2
13C-1,2,3,6,7,8-HxCDD	1.85e+07	1.32 y	38:51	0.97	3440					85.9
13C-1,2,3,4,6,7,8-HpCDD	1.54e+07	1.11 y	44:17	0.94	2940					73.5
13C-OCDD	1.92e+07	0.89 y	49:50	0.65	5360					67.0
13C-2,3,7,8-TCDF	6.58e+07	0.81 y	26:47	1.36	2860					71.5
13C-1,2,3,7,8-PeCDF	5.31e+07	1.67 y	31:37	1.23	2550					63.6
13C-1,2,3,6,7,8-HxCDF	3.36e+07	0.52 y	37:31	1.61	3760					93.9
13C-1,2,3,4,6,7,8-HpCDF	1.63e+07	0.41 y	42:23	1.02	2900					72.4
13C-OCDF	6.39e+07	0.94 y	50:12	1.83	6300					78.7
13C-1,2,3,7,8,9-HxCDF	4.01e+07	0.52 y	39:53	1.99	3640					91.1
37Cl-2,3,7,8-TCDD	1.55e+07		27:33	0.33	4030					101
13C-1,2,3,4,7,8-HxCDD	2.31e+07	1.29 y	38:41	1.32	3790					94.7
13C-2,3,4,7,8-PeCDF	3.18e+07	1.71 y	32:56	0.81	2950					73.6
13C-1,2,3,4,7,8-HxCDF	4.45e+07	0.52 y	37:18	1.38	3840					95.9
13C-1,2,3,4,7,8,9-HpCDF	1.54e+07	0.40 y	45:12	0.81	4640					116
13C-1,2,3,4-TCDD	4.20e+07	0.75 y	26:57	-	120					
13C-1,2,3,4-TCDF	6.78e+07	0.83 y	25:42	-	119					
13C-1,2,3,7,8,9-HxCDD	2.21e+07	1.32 y	39:18	-	92.2					
										Fac Noise DL #Hom
Total Tetra-Dioxins	*		NotFnd	0.93	*		2.50	717	1.28	0
Total Penta-Dioxins	*		NotFnd	1.48	*		2.50	239	1.03	0
Total Hexa-Dioxins	*		NotFnd	1.29	*		2.50	440	2.55	0
Total Hepta-Dioxins	*		NotFnd	1.16	*		2.50	345	2.56	0
Total Tetra-Furans	*		NotFnd	1.00	*		2.50	860	1.02	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.78	*		2.50	518	1.65	0
Total Penta-Furans	*		NotFnd	0.78	*		2.50	518	1.65	0
Total Hexa-Furans	*		NotFnd	0.95	*		2.50	398	1.34	0
Total Hepta-Furans	*		NotFnd	1.20	*		2.50	273	1.30	0

Analyst: 

Date: 11/17/08

File:14NOV08M #1-390 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



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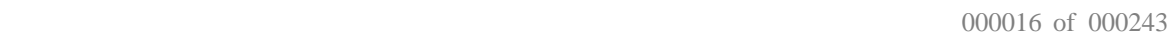
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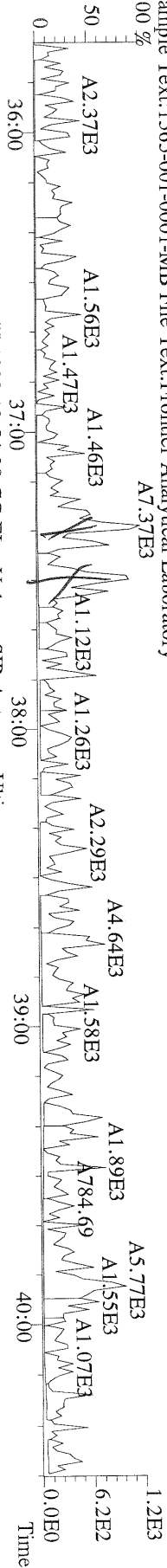
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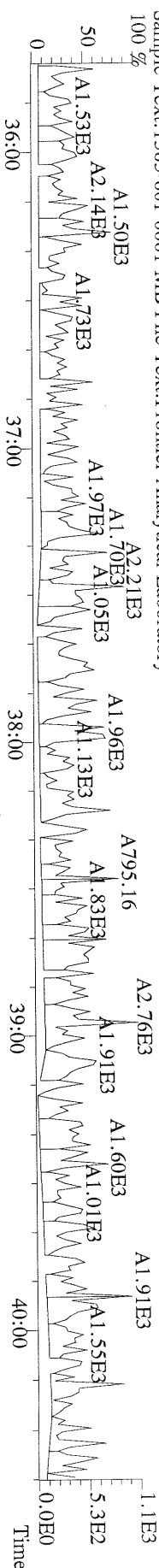
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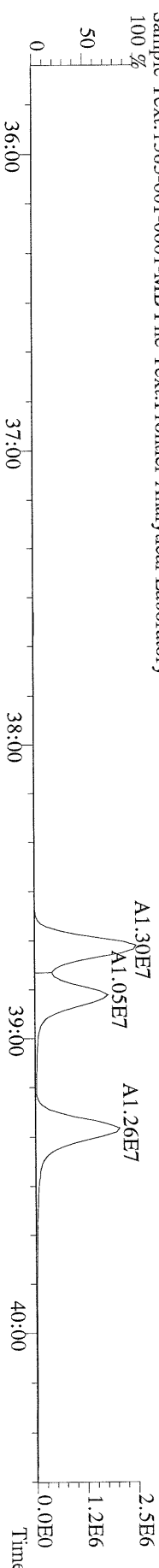
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389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



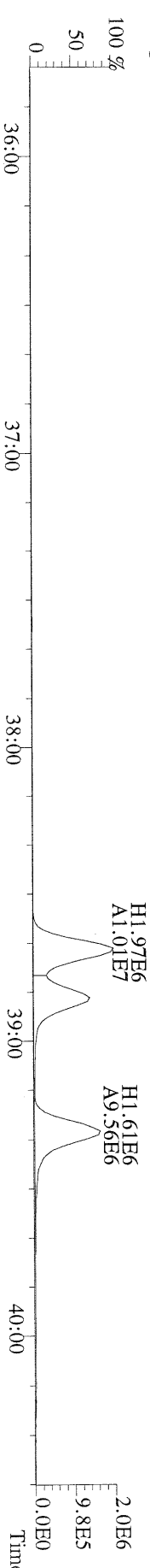
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391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



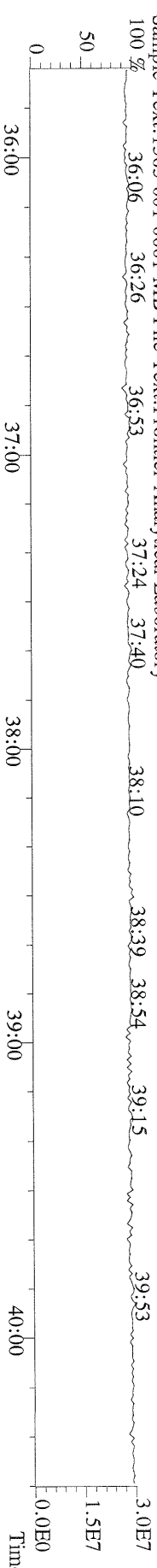
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401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



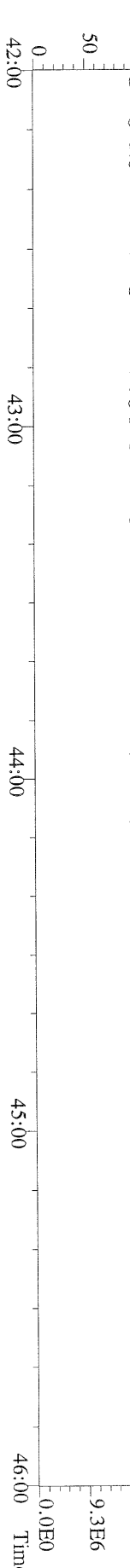
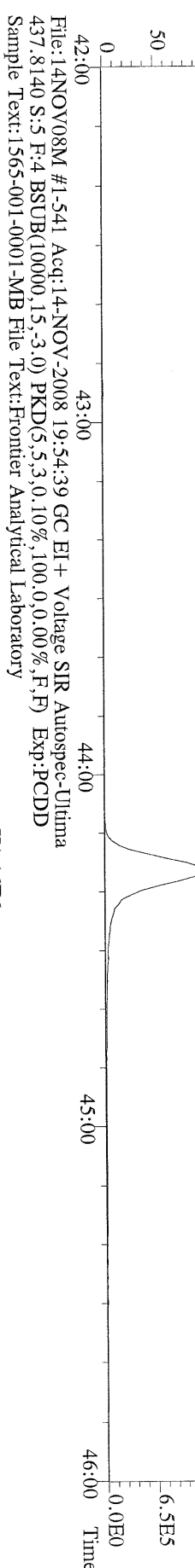
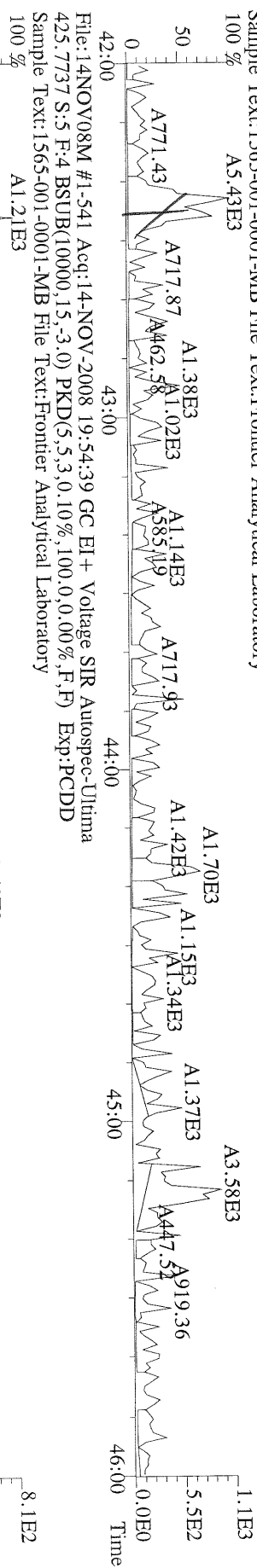
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403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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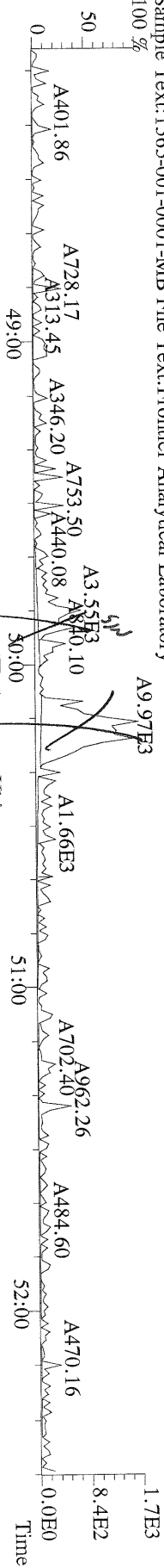
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380.9760 S:5 F:3 Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



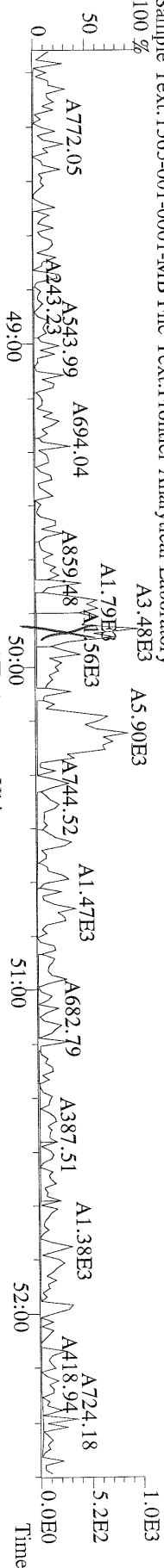
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423.7767 S:S F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Fronter Analytical Laboratory
100 % A5.43E3



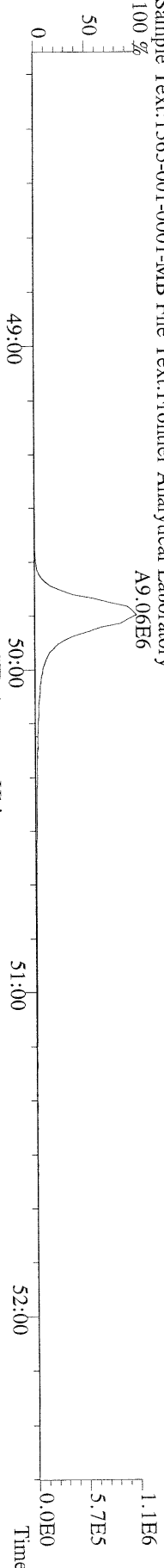
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457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



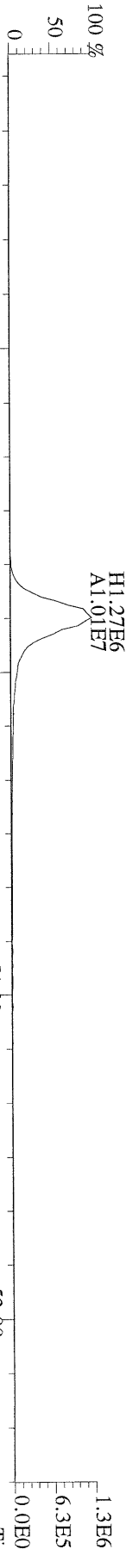
File:14NOV08M #1-347 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



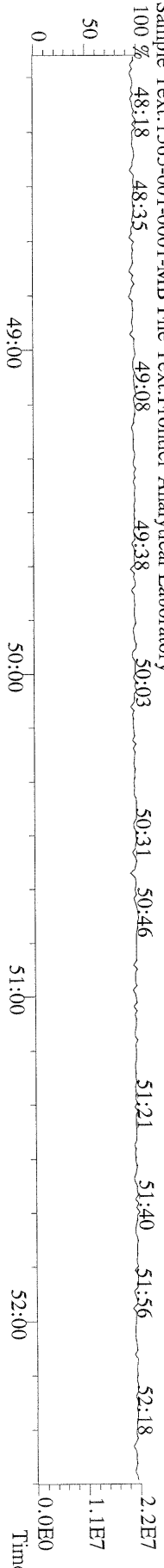
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469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



File:14NOV08M #1-347 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



File:14NOV08M #1-347 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



A3.02E3



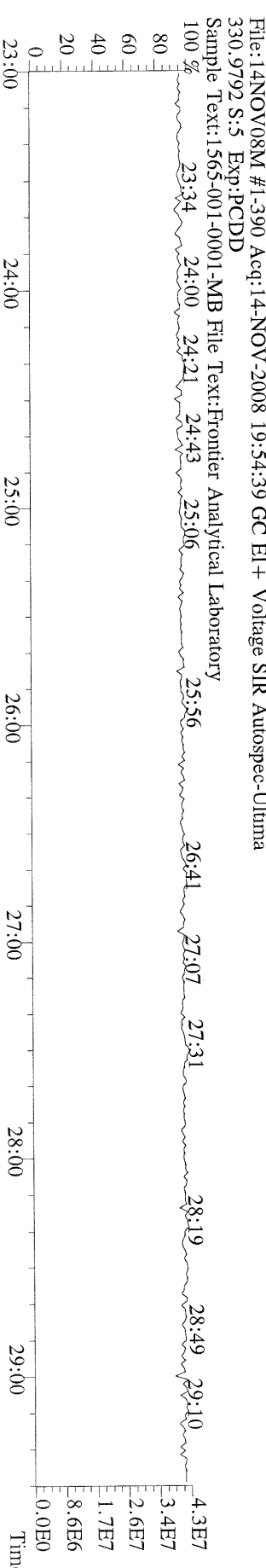
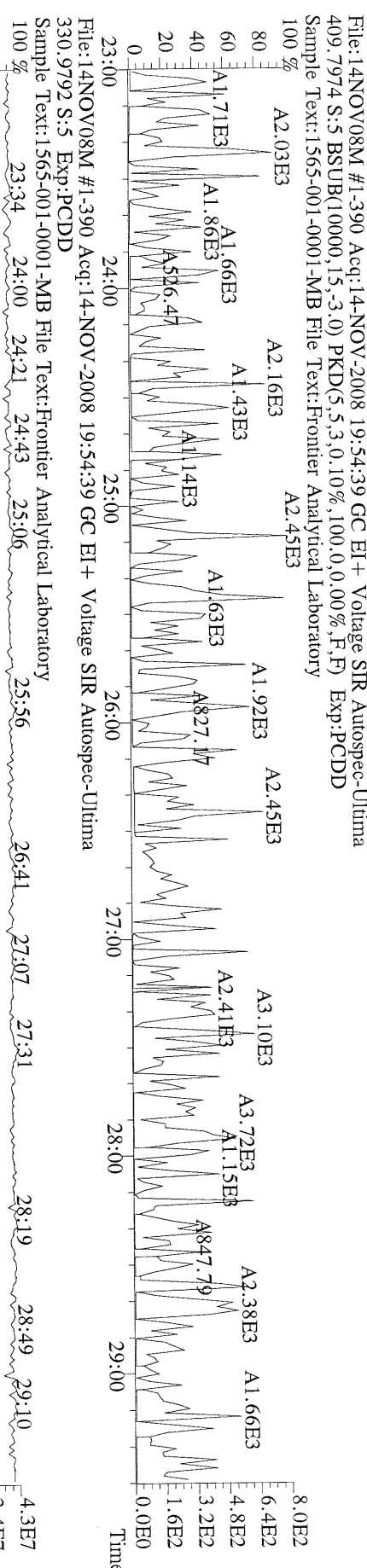
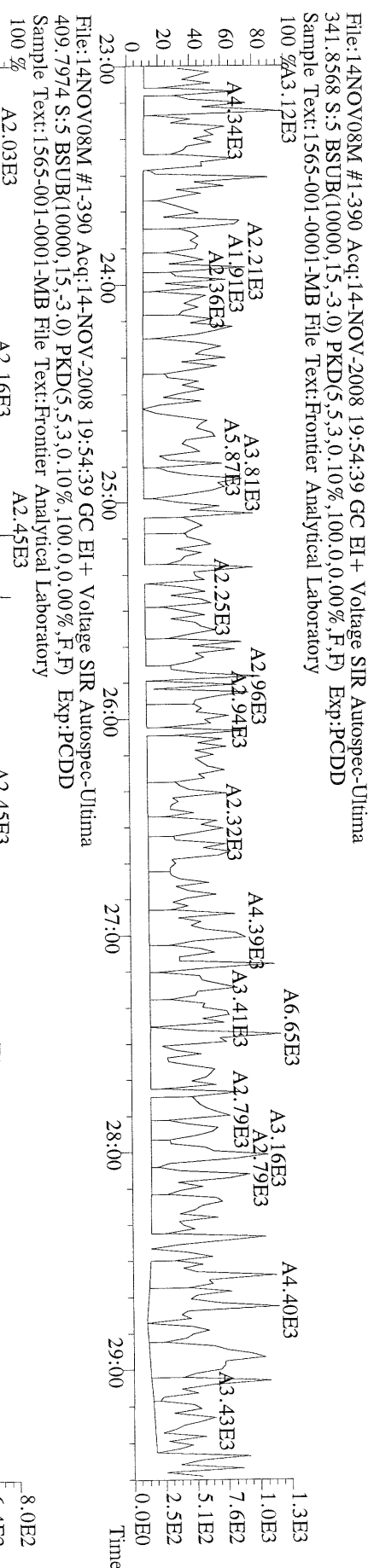
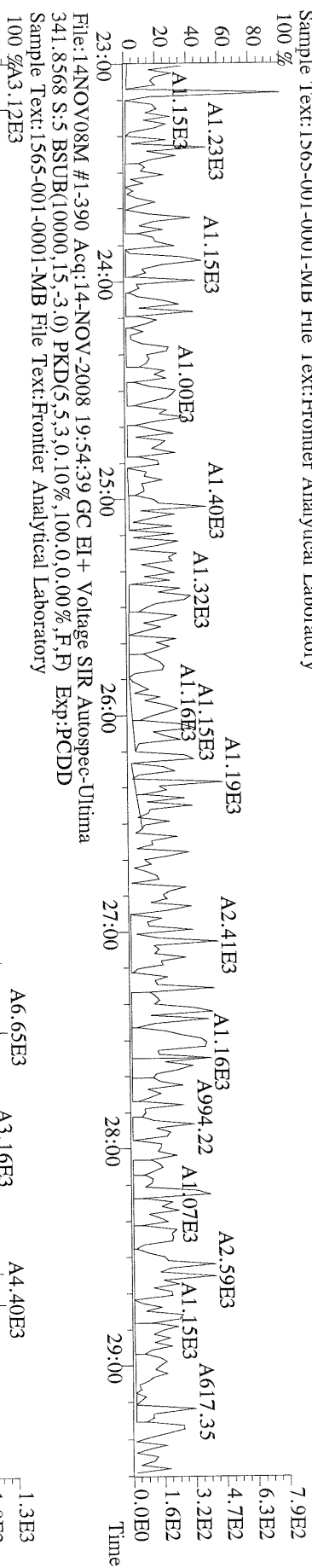
7.3E6



8.9E2

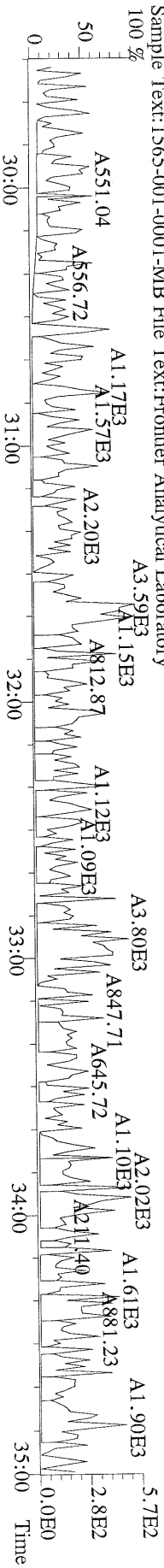


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339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



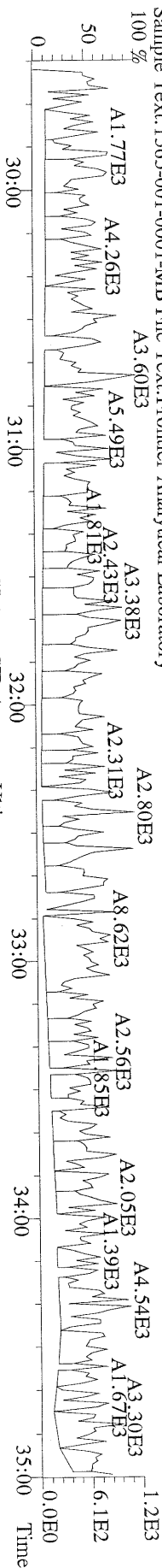
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339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD

Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



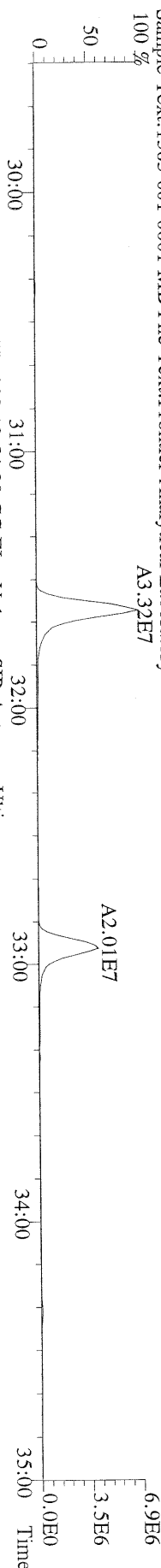
File:14NOV08M #1-425 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD

Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



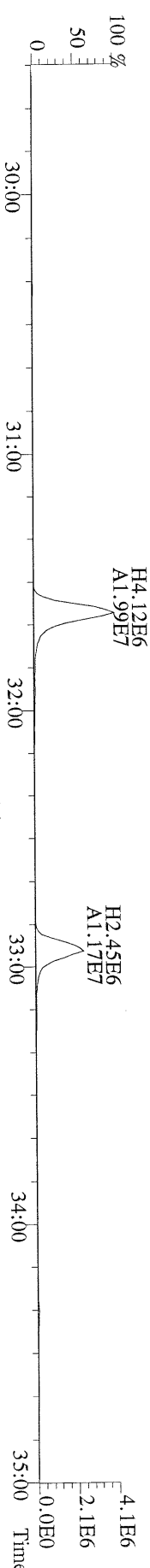
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351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD

Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



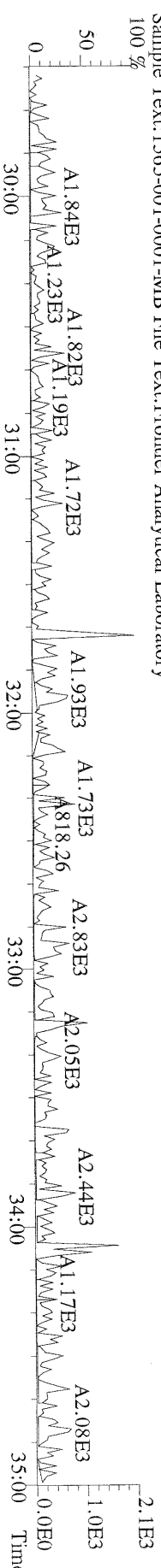
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353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD

Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory

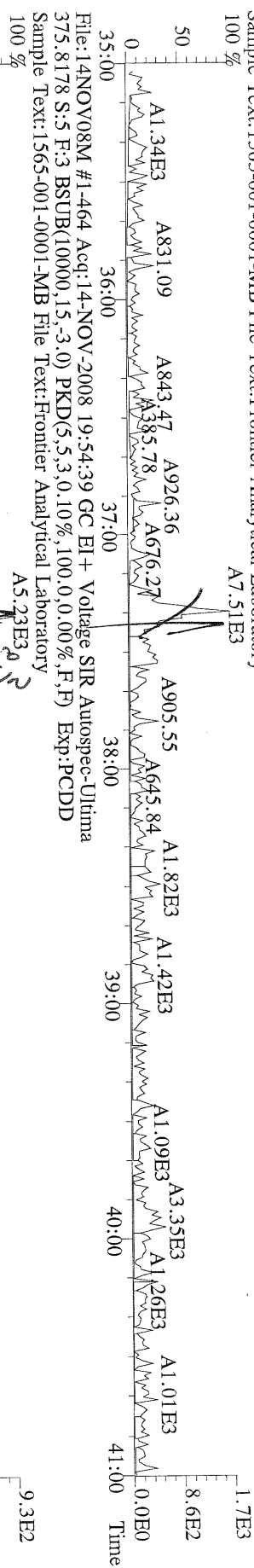


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409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD

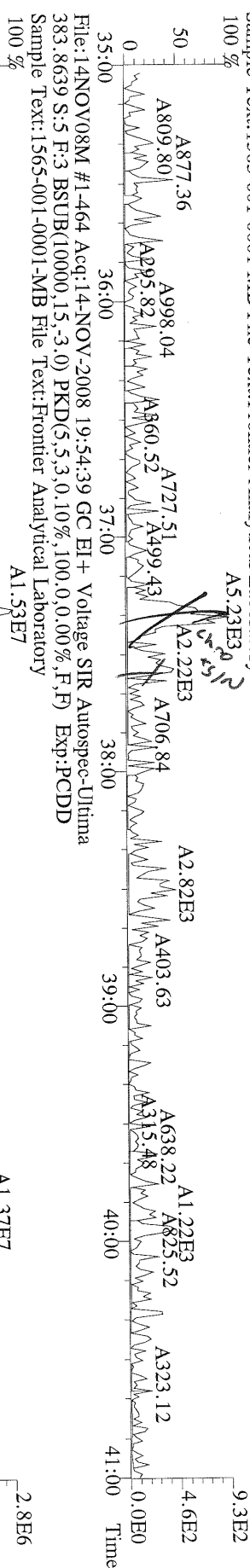
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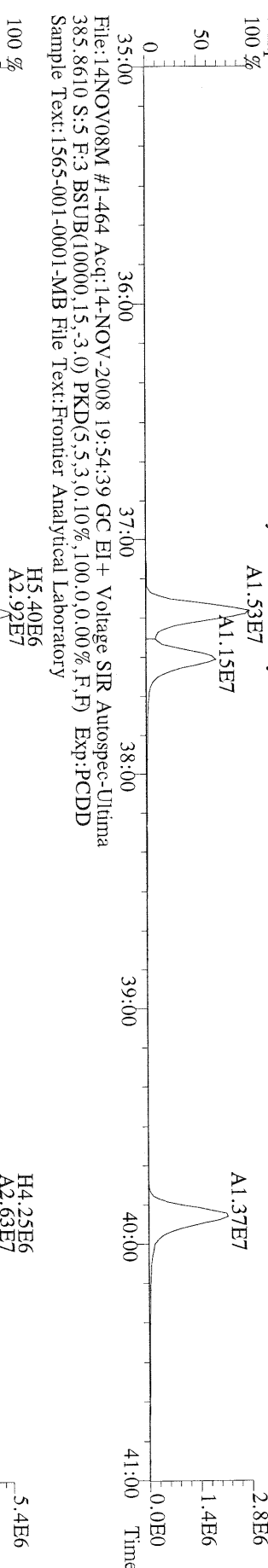
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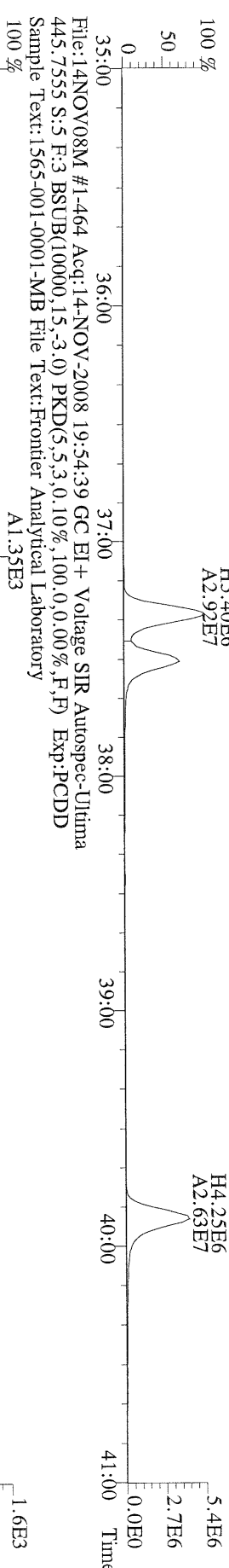
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375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



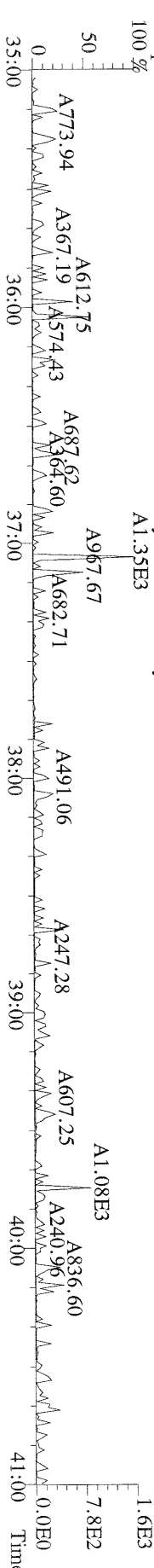
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383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory

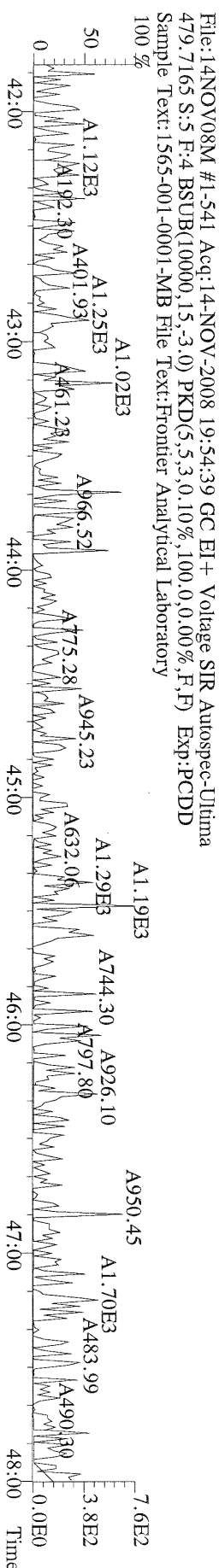
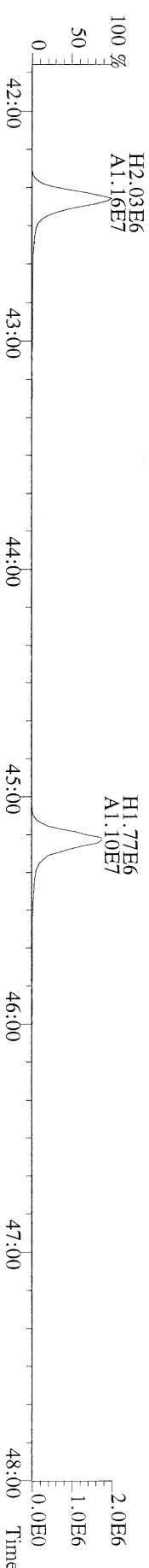
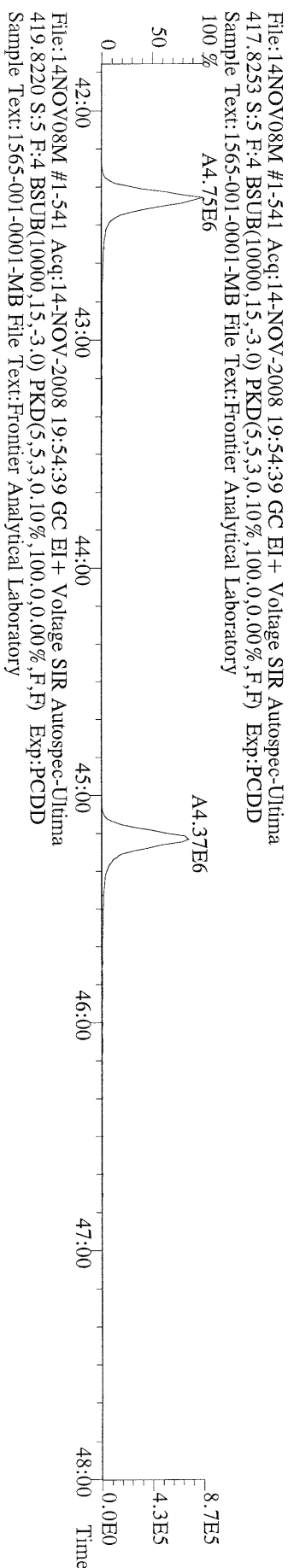
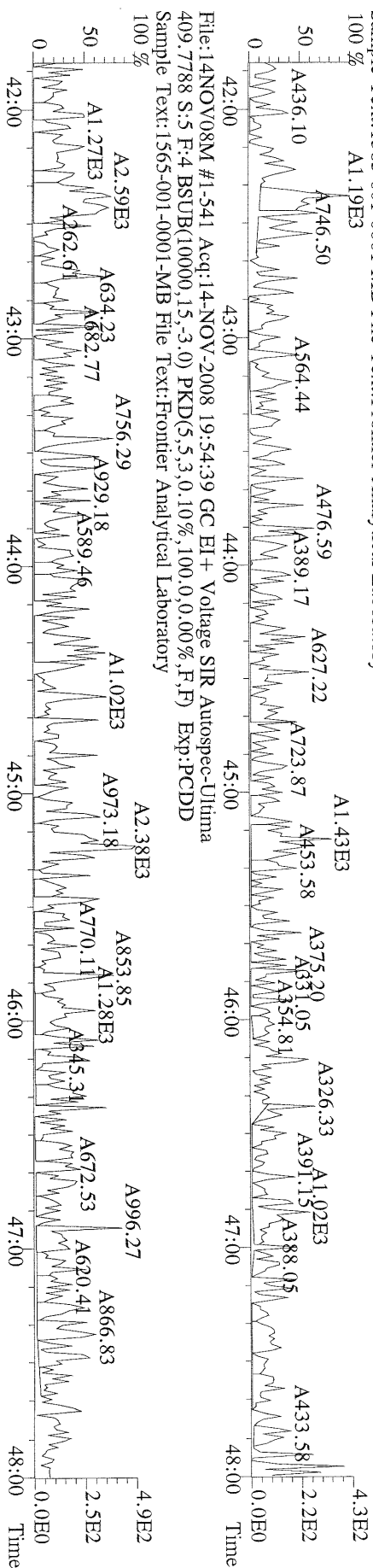
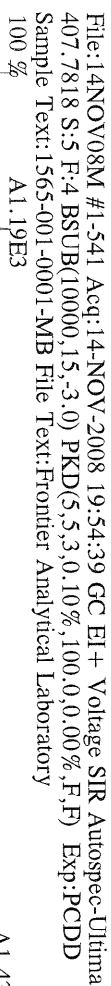


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385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory



File:14NOV08M #1-1464 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultim
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory

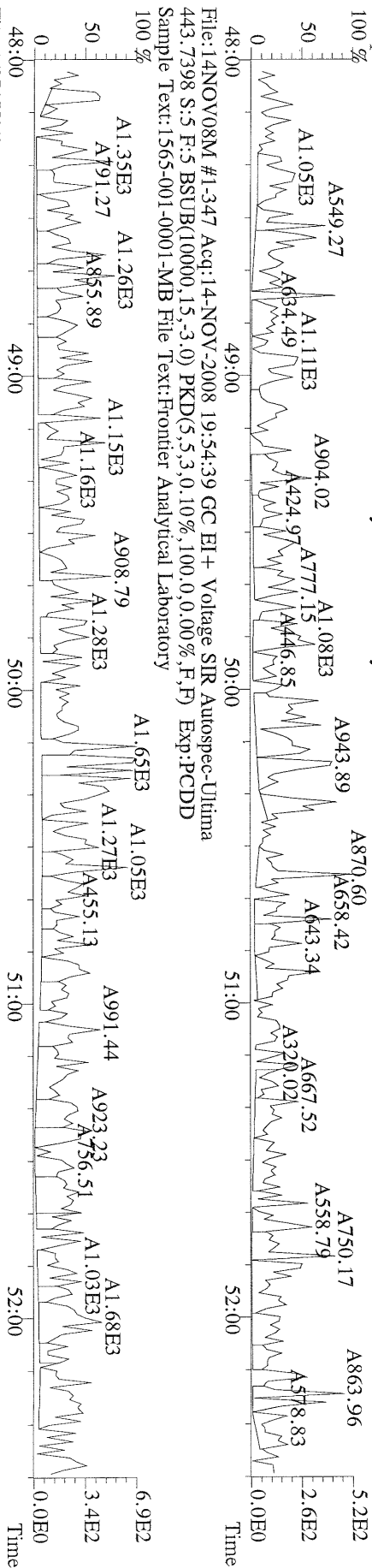




File:14NOV08M #1-347 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima

441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD

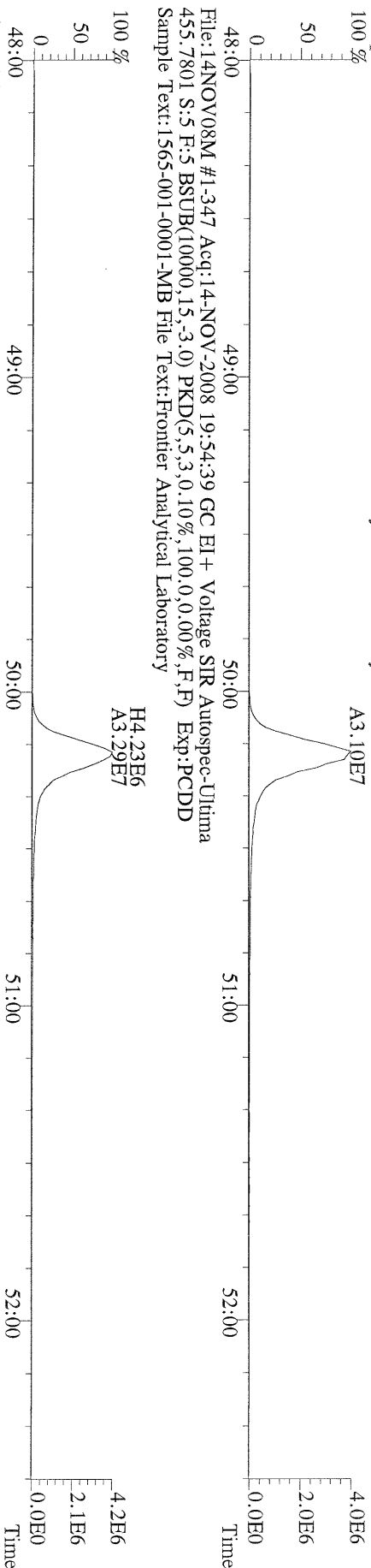
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File:14NOV08M #1-347 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima

453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD

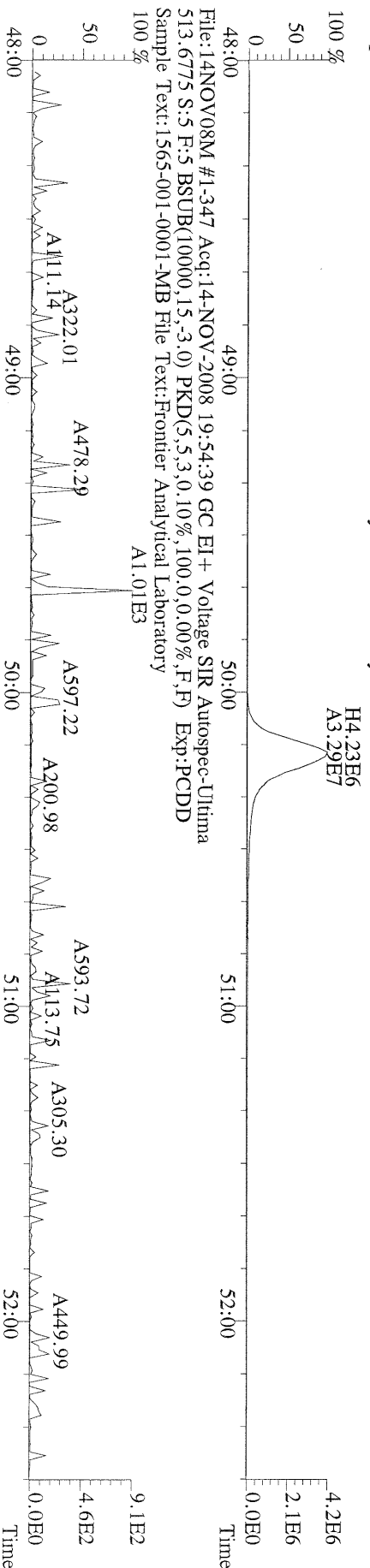
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File:14NOV08M #1-347 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima

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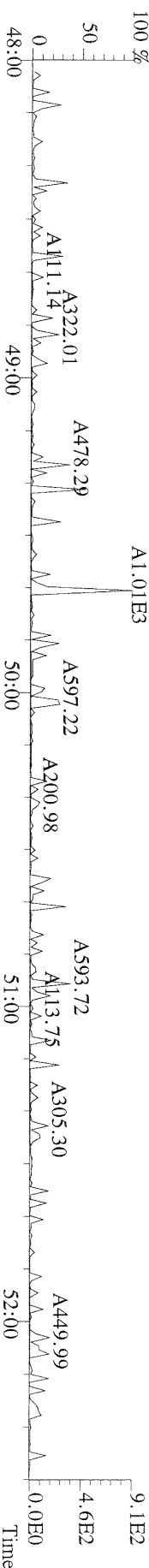
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File:14NOV08M #1-347 Acq:14-NOV-2008 19:54:39 GC EI+ Voltage SIR Autospec-Ultima

513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD

Sample Text:1565-001-0001-MB File Text:Frontier Analytical Laboratory




USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:
 Contract No.: SAS No.:
 Matrix (MM5/PUF): PUF OPR Data Filename: 14NOV08M Sam:2
 Ext. Date: 11/11/08 Shift: Day Analysis Date: 14-NOV-08 17:08:55

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	5.00	3.63	3.00 - 7.00 ✓
1,2,3,7,8-PeCDD	25.0	22.1	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDD	25.0	21.9	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDD	25.0	23.0	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDD	25.0	22.5	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDD	25.0	24.2	15.0 - 35.0 ✓
OCDD	50.0	49.2	30.0 - 70.0 ✓
2,3,7,8-TCDF	5.00	4.72	3.00 - 7.00 ✓
1,2,3,7,8-PeCDF	25.0	23.6	15.0 - 35.0 ✓
2,3,4,7,8-PeCDF	25.0	23.4	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDF	25.0	20.7	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDF	25.0	21.8	15.0 - 35.0 ✓
2,3,4,6,7,8-HxCDF	25.0	20.7	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDF	25.0	22.2	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDF	25.0	23.3	15.0 - 35.0 ✓
1,2,3,4,7,8,9-HpCDF	25.0	28.5	15.0 - 35.0 ✓
OCDF	50.0	42.9	30.0 - 70.0 ✓

Analyst: 


Date: 11/17/08

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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (MM5/PUF): PUF OPR Data Filename: 14NOV08M Sam:2
Ext. Date: 11/11/08 Shift: Day Analysis Date: 14-NOV-08 17:08:55

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	91.5	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDD	100	83.4	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	100	89.7	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	90.5	40.0 - 130 ✓
13C-OCDD	200	176	50.0 - 260 ✓
13C-2,3,7,8-TCDF	100	86.8	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	100	89.2	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	100	92.8	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	86.5	40.0 - 130 ✓
13C-OCDF	200	208	50.0 - 260 ✓
CLEANUP STANDARD			
13C-1,2,3,7,8,9-HxCDF	100	97.6	40.0 - 130 ✓
PRE-SPIKE STANDARD			
37Cl-2,3,7,8-TCDD	100	104	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDD	100	103	70.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	100	73.7	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	100	105	70.0 - 130 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	130	70.0 - 130 ✓

Analyst: 

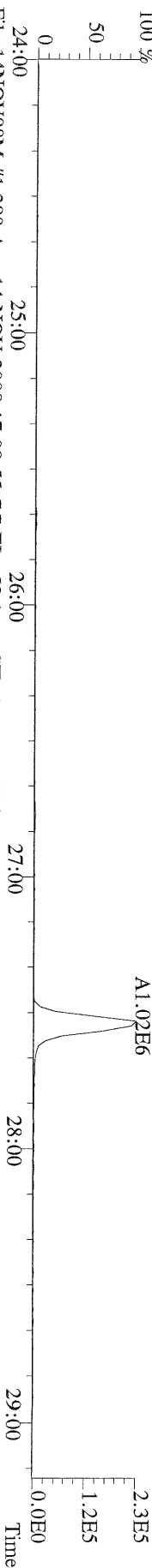
Date: 11/17/08

NATO 1989 Tox: 44.2
WHO 1998 Tox: 55.2

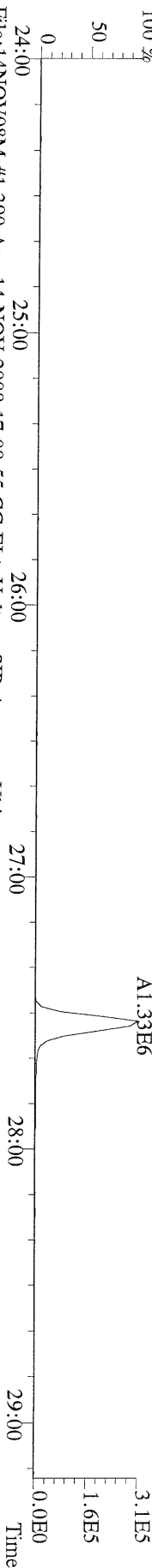
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Date:

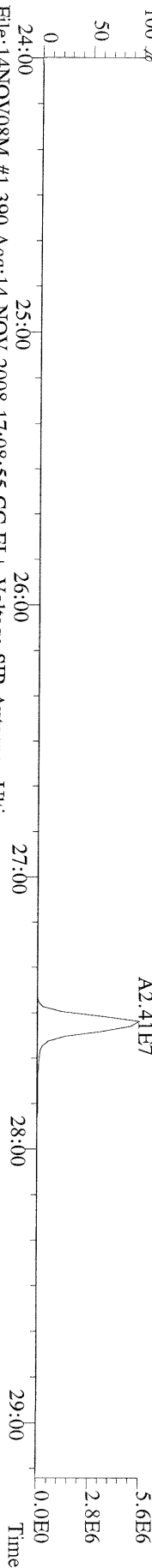
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



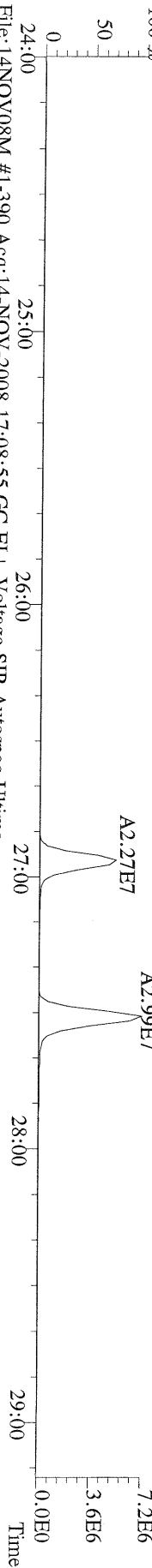
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



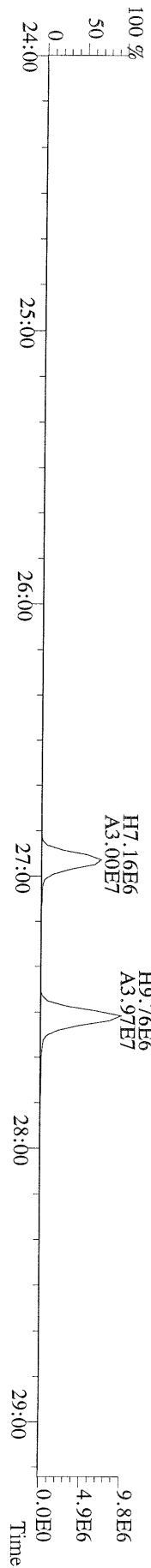
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327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



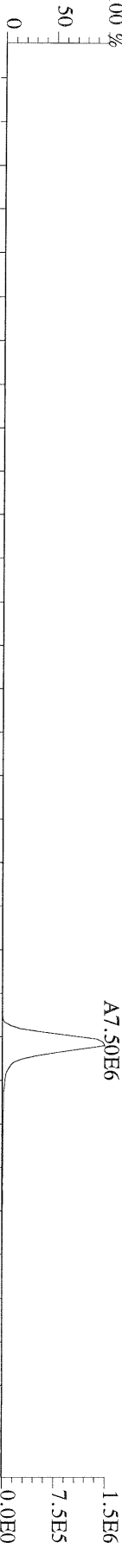
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331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



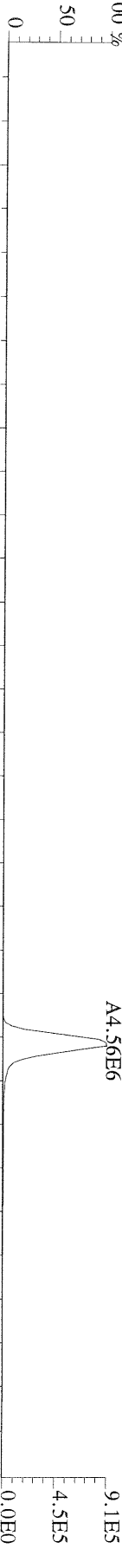
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333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



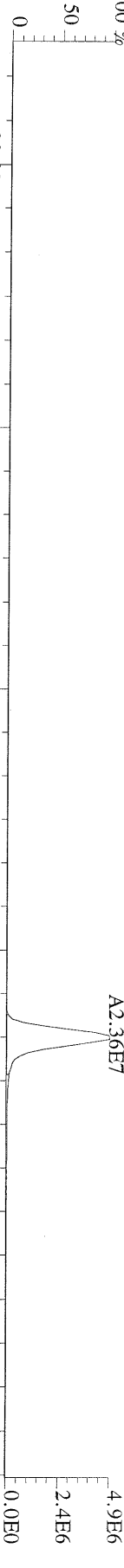
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355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



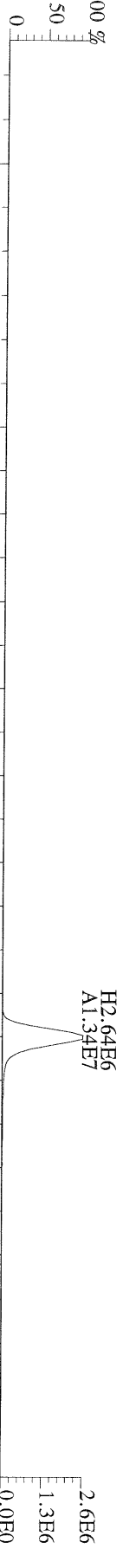
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357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



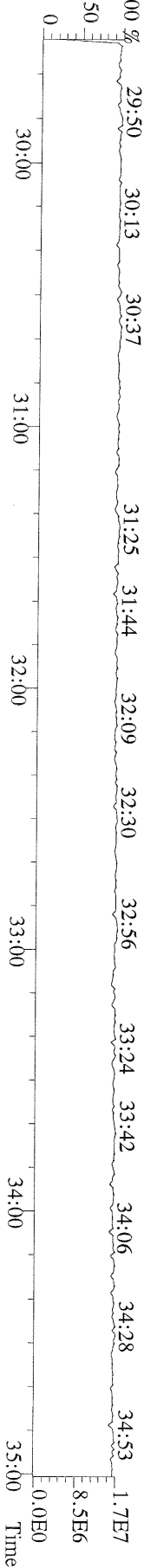
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367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



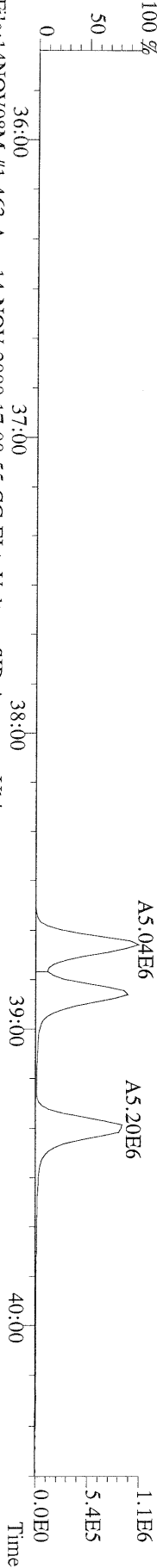
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



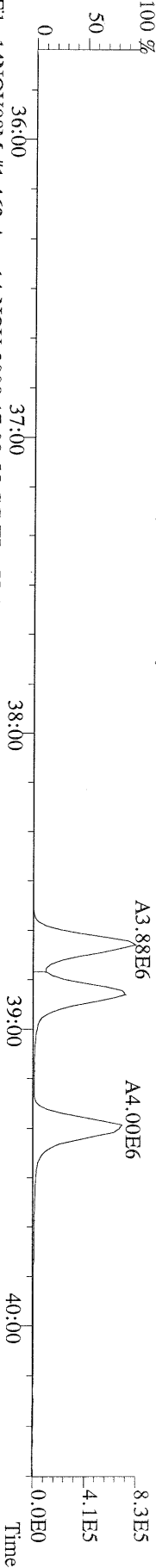
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366.9792 S:2 F:2 Exp:PCDD
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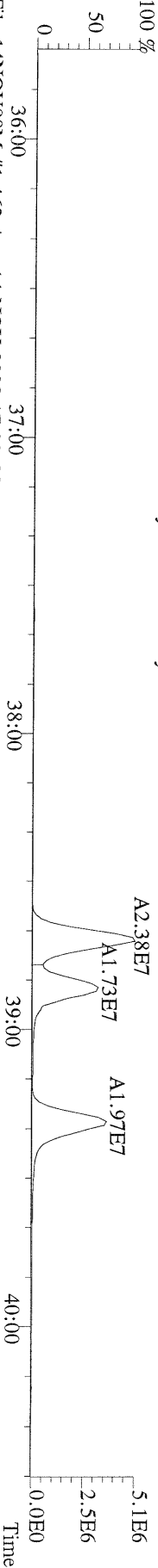
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389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



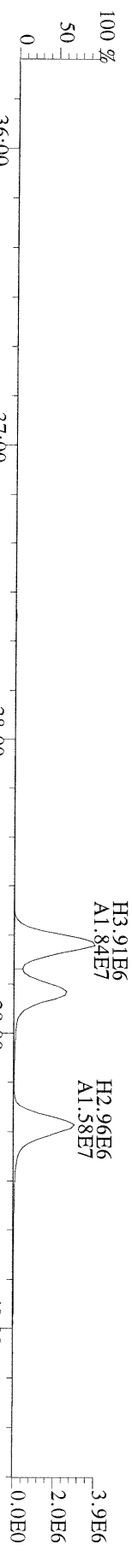
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391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



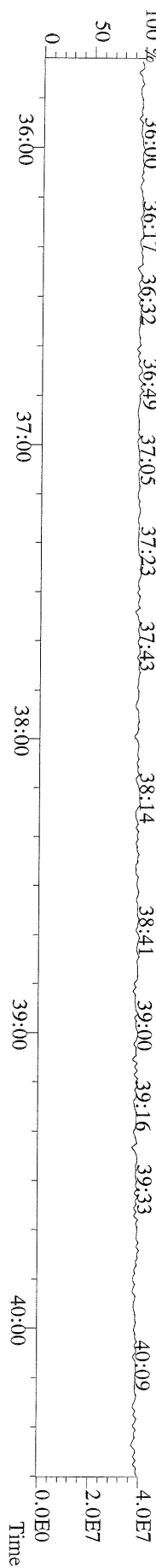
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401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



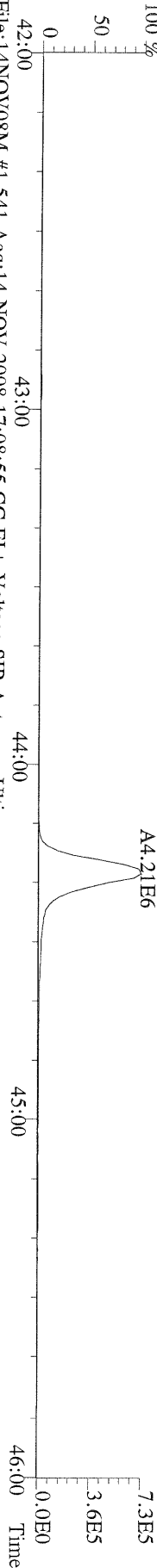
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403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



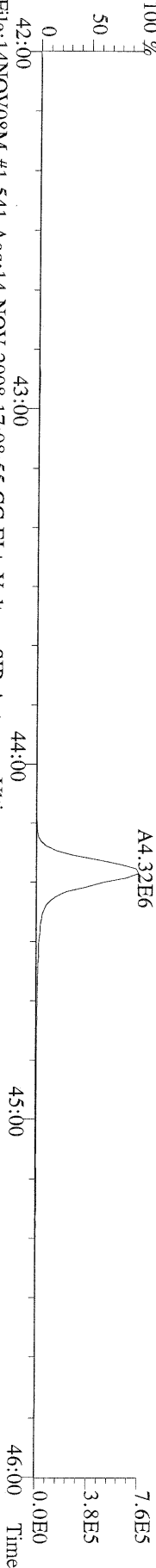
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380.9760 S:2 F:3 Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



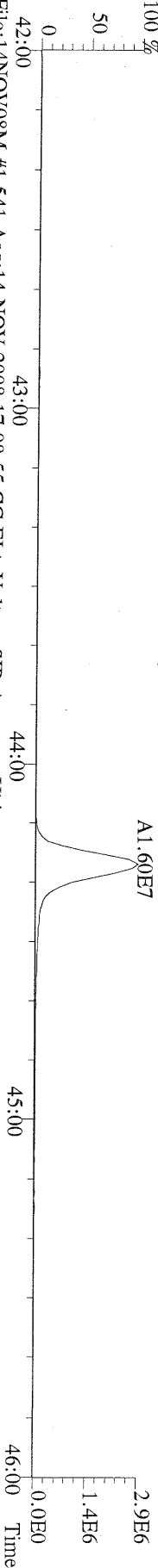
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423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



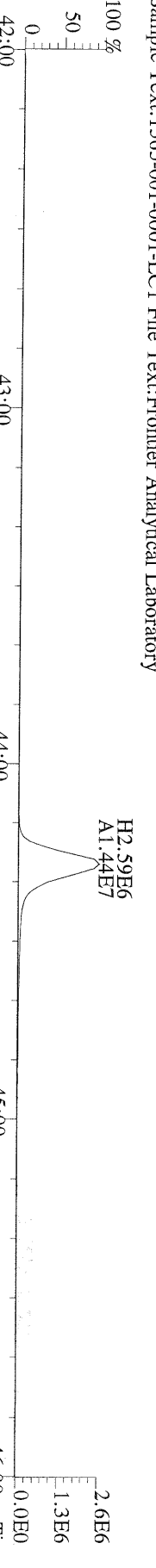
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



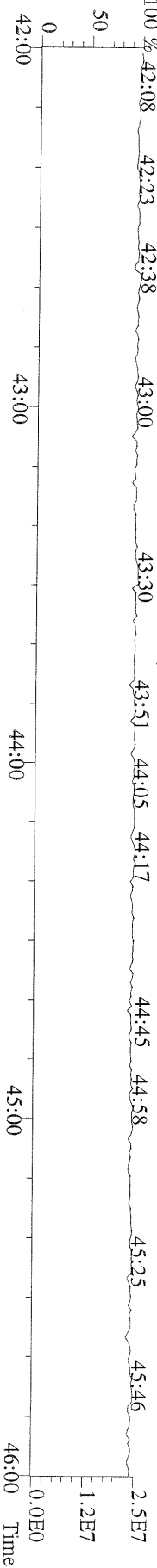
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



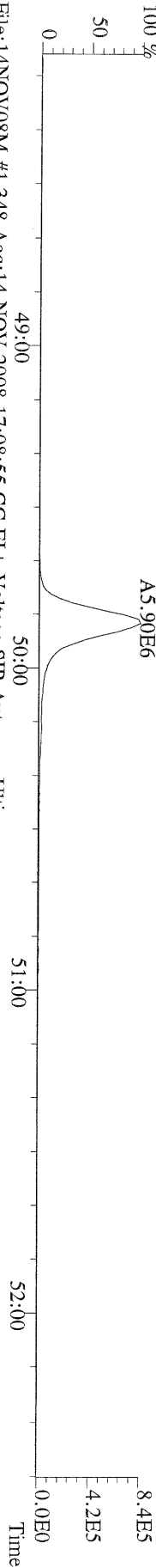
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437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



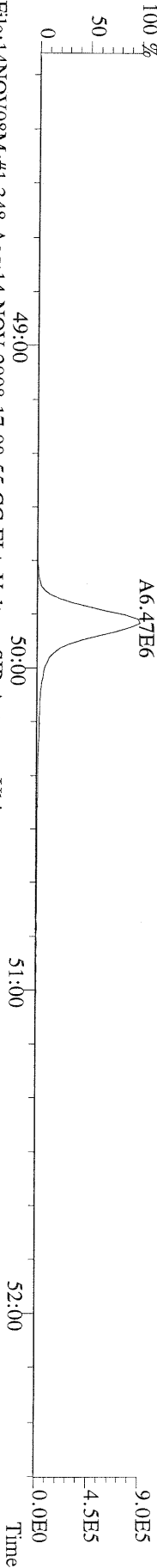
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430.9728 S:2 F:4 Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



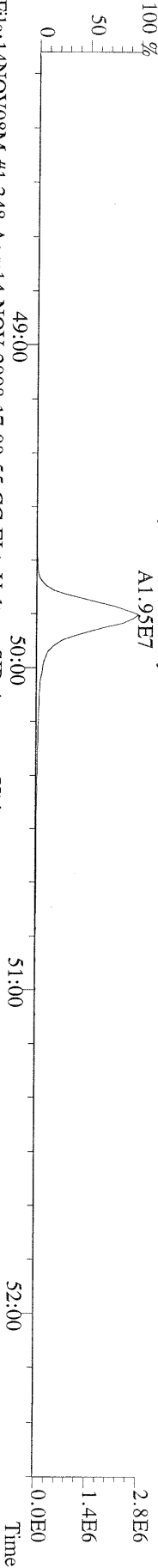
File:14NOV08M #1-348 Acq:14-NOV-2008 17:08:55 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



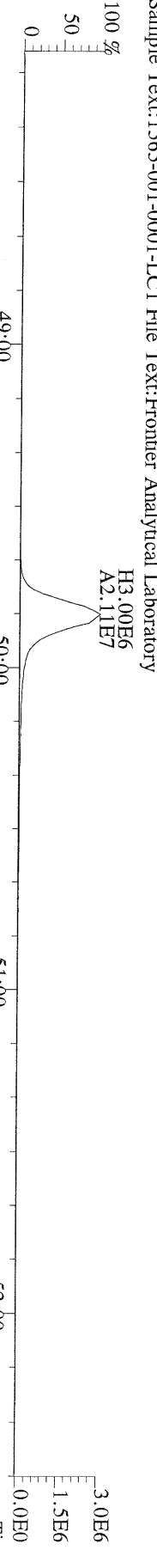
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459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



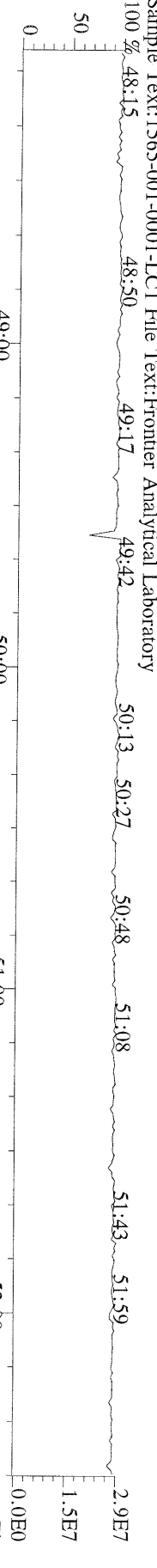
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469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



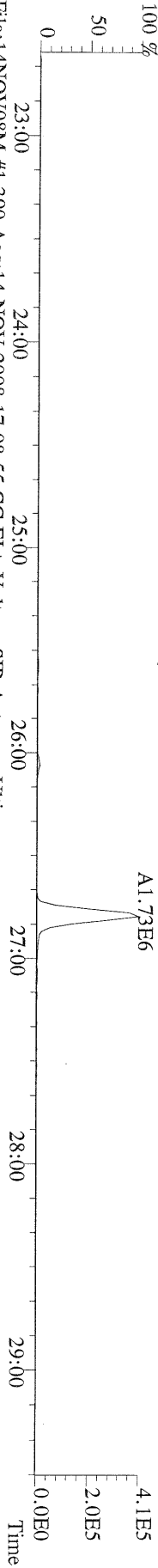
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



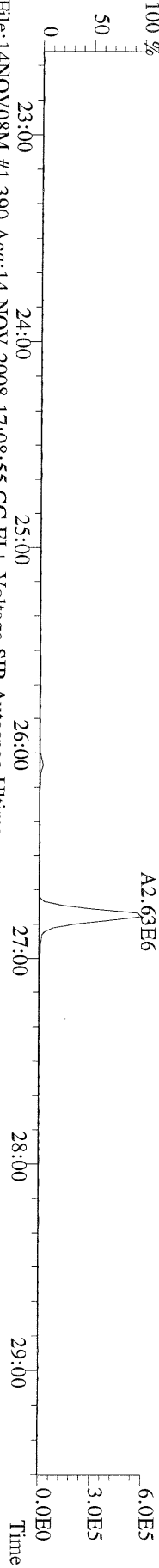
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



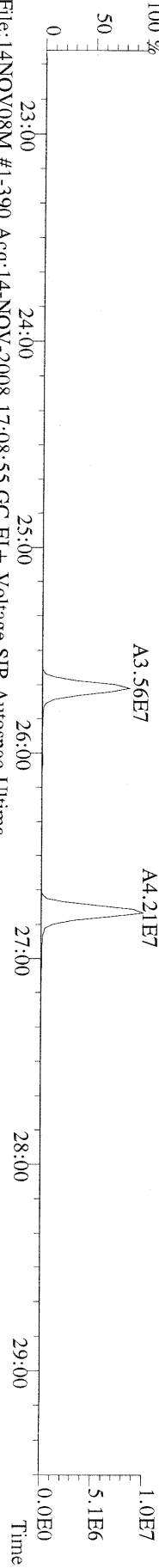
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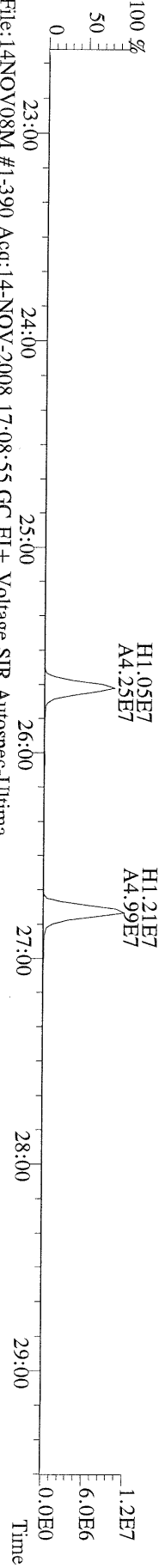
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305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



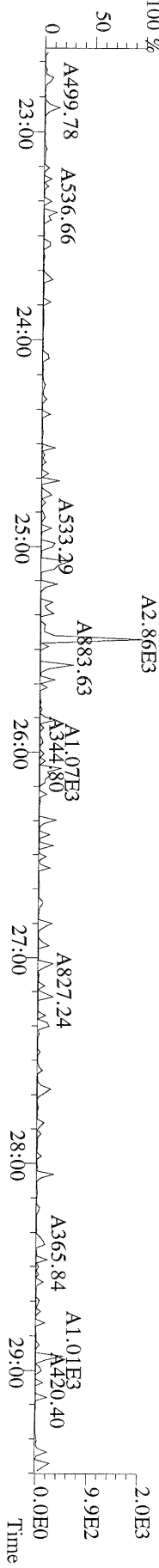
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



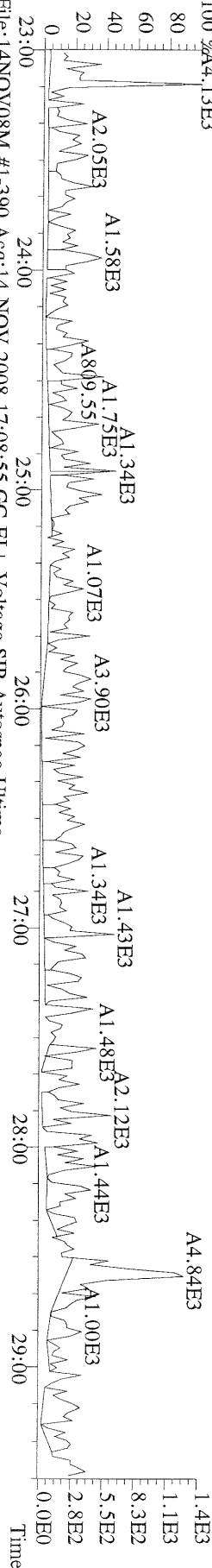
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



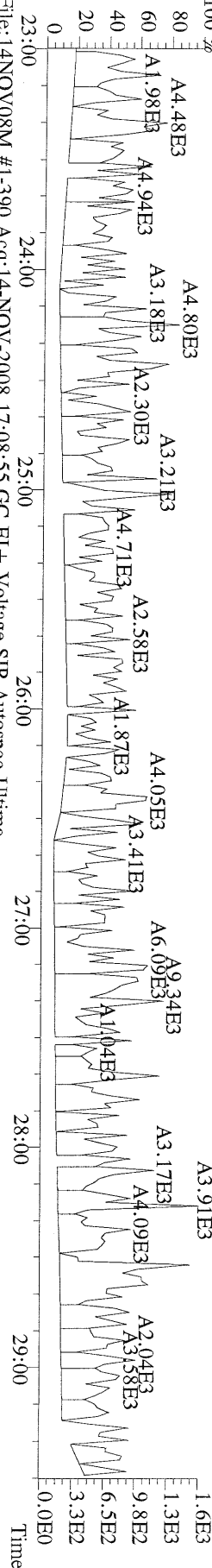
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375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



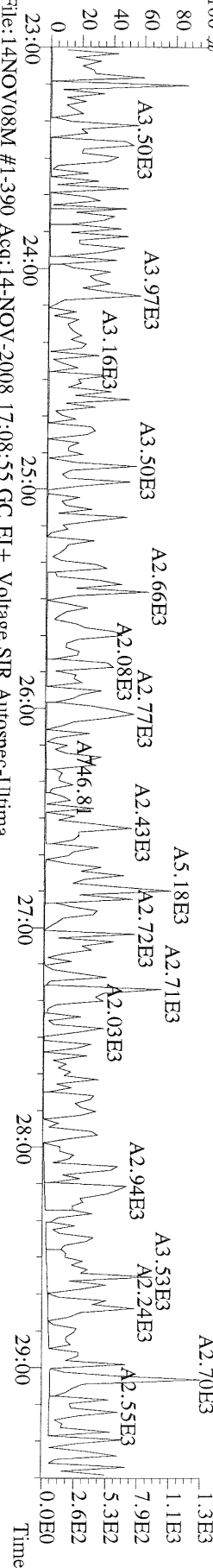
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %A4,13E3



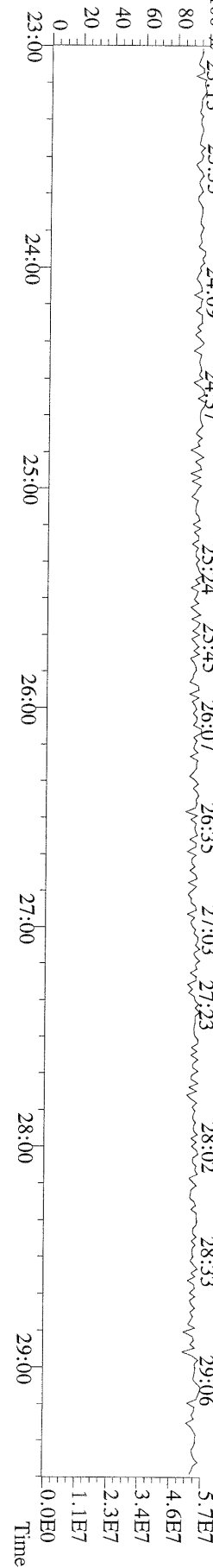
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341.8568 S:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



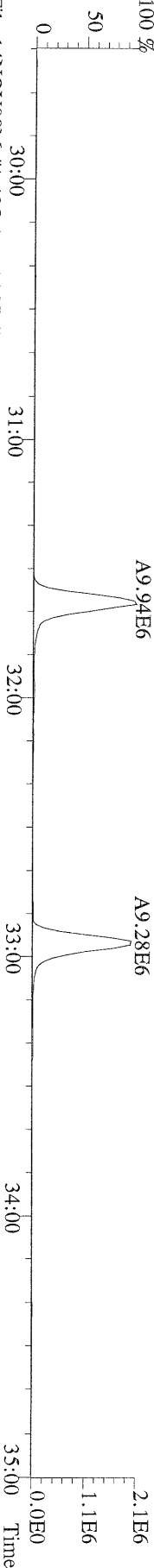
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409.7974 S:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



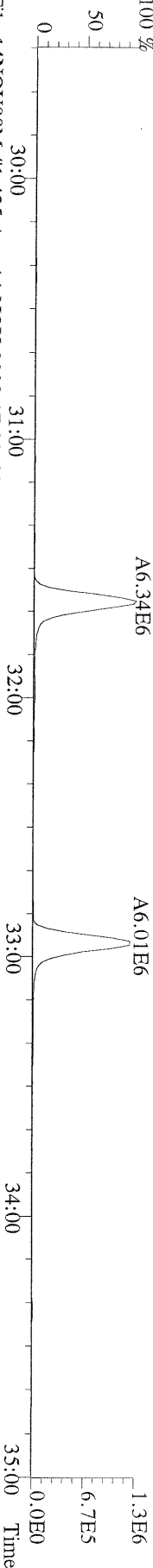
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330.9792 S:2 Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



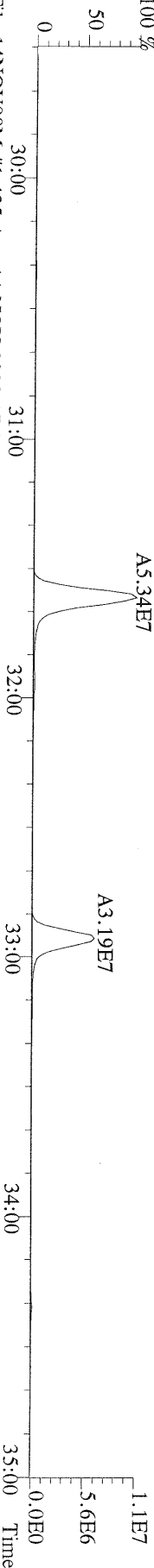
File:14NOV08M #1-425 Acq:14-NOV-2008 17:08:55 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



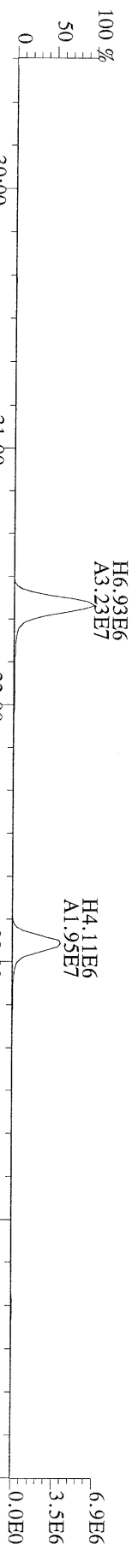
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341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



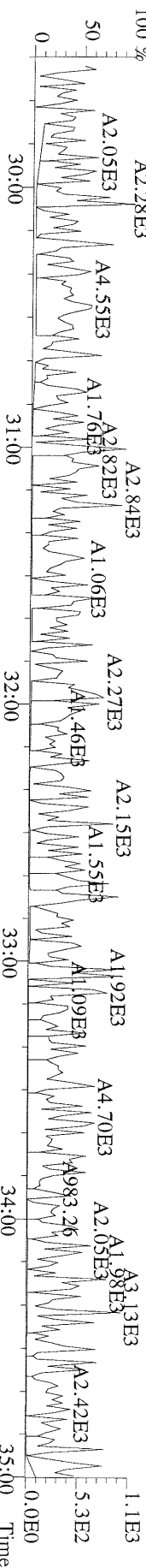
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351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



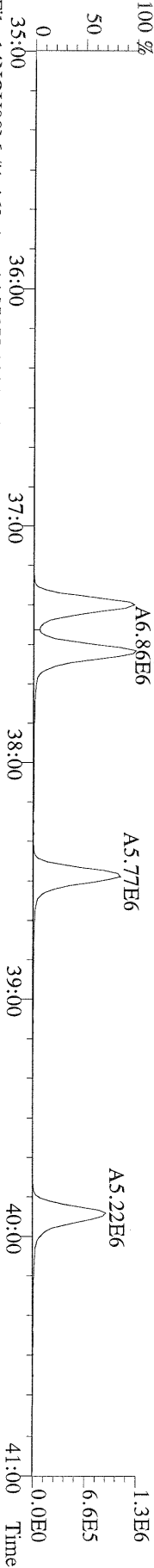
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353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



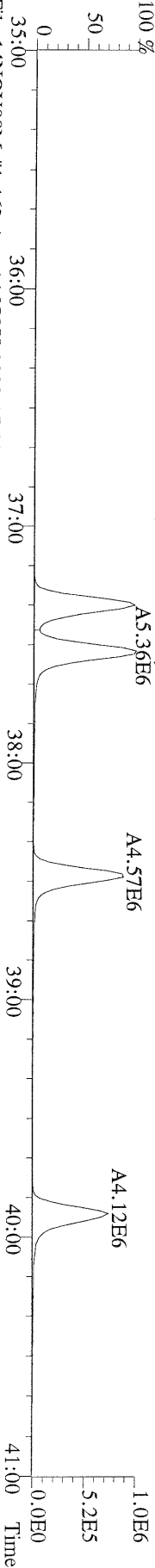
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409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



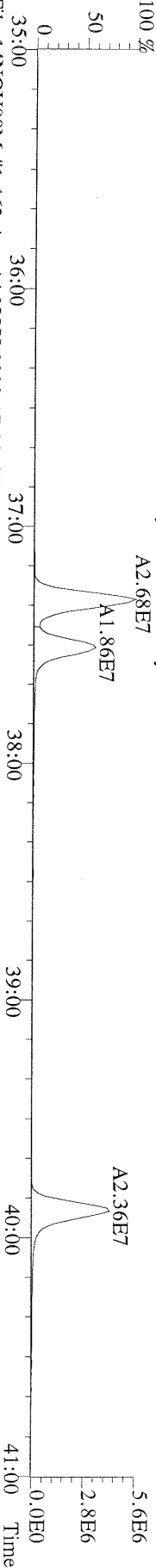
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373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



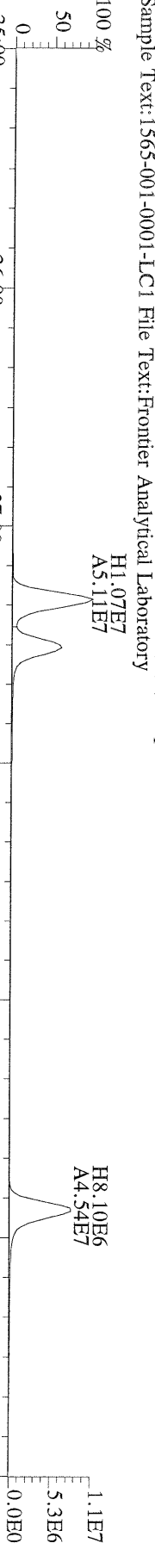
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375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



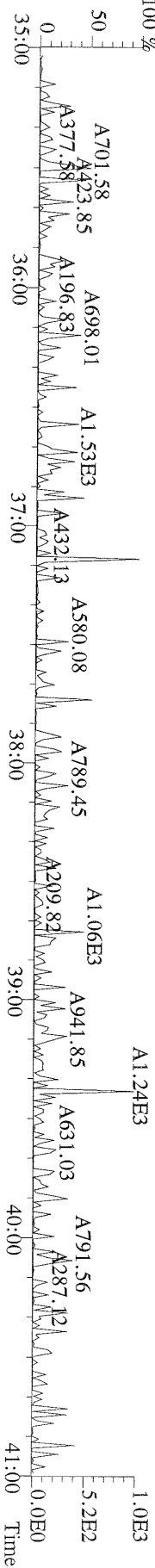
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383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



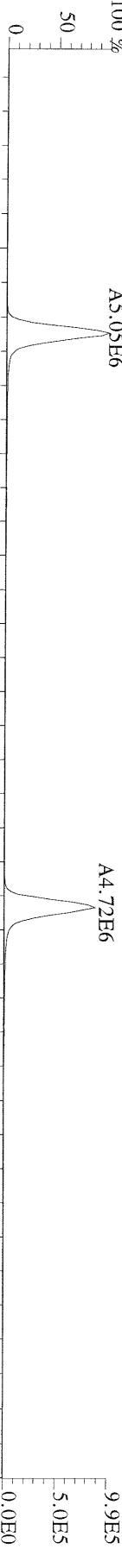
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385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



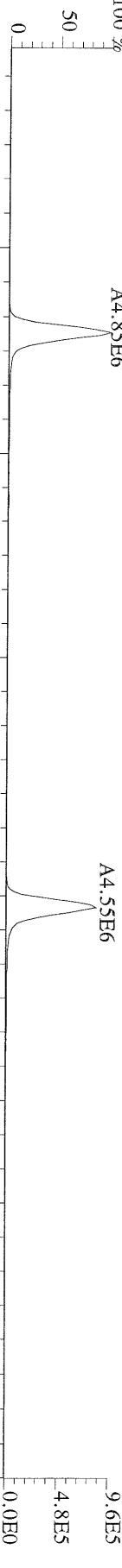
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445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



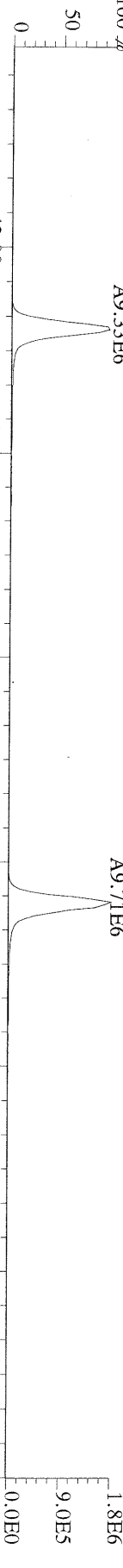
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407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-541 Acq:14-NOV-2008 17:08:55 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



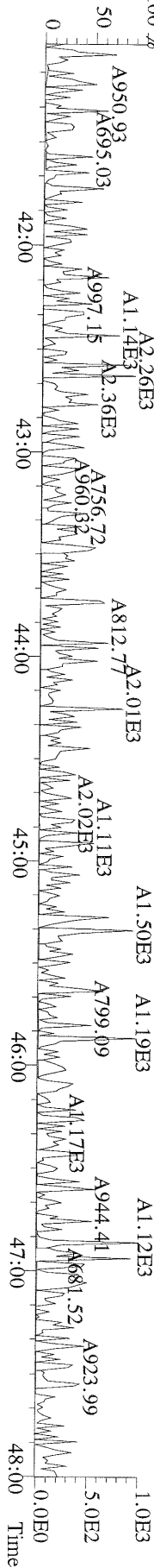
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417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



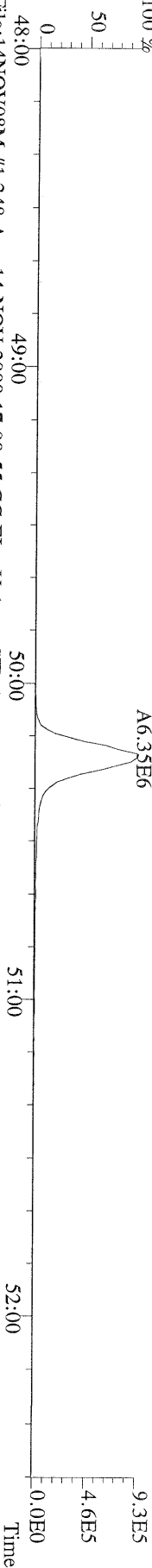
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Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



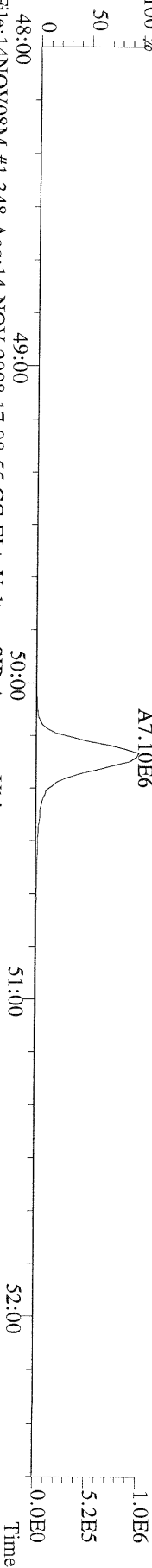
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479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



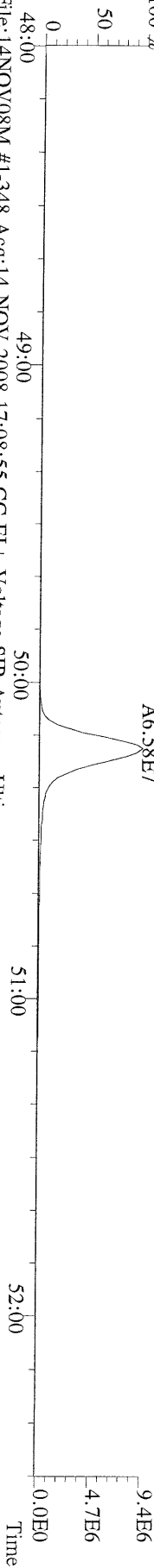
File:14NOV08M #1-348 Acq:14-NOV-2008 17:08:55 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



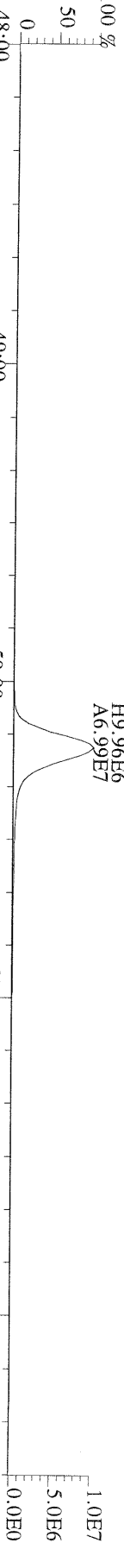
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443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



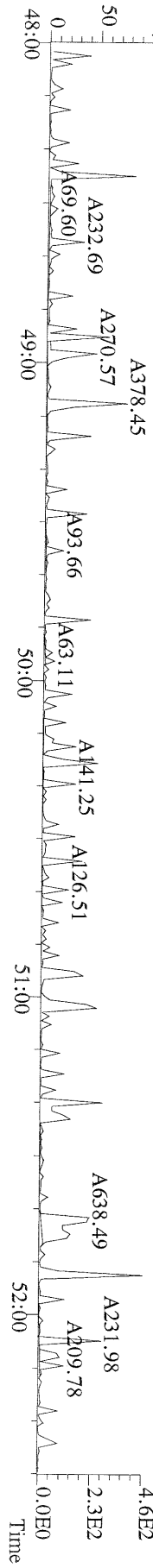
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453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-348 Acq:14-NOV-2008 17:08:55 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-348 Acq:14-NOV-2008 17:08:55 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC1 File Text:Frontier Analytical Laboratory




USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (MM5/PUF): PUF OPR Data Filename: 14NOV08M Sam:3
Ext. Date: 11/11/08 Shift: Day Analysis Date: 14-NOV-08 18:04:10

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	5.00	3.60	3.00 - 7.00 ✓
1,2,3,7,8-PeCDD	25.0	21.0	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDD	25.0	20.4	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDD	25.0	22.1	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDD	25.0	21.7	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDD	25.0	23.1	15.0 - 35.0 ✓
OCDD	50.0	47.9	30.0 - 70.0 ✓
2,3,7,8-TCDF	5.00	4.26	3.00 - 7.00 ✓
1,2,3,7,8-PeCDF	25.0	22.8	15.0 - 35.0 ✓
2,3,4,7,8-PeCDF	25.0	22.3	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDF	25.0	19.3	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDF	25.0	20.3	15.0 - 35.0 ✓
2,3,4,6,7,8-HxCDF	25.0	19.6	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDF	25.0	20.0	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDF	25.0	22.7	15.0 - 35.0 ✓
1,2,3,4,7,8,9-HpCDF	25.0	27.3	15.0 - 35.0 ✓
OCDF	50.0	39.2	30.0 - 70.0 ✓

Analyst: 

Date: 11/17/08

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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (MM5/PUF): PUF OPR Data Filename: 14NOV08M Sam:3
Ext. Date: 11/11/08 Shift: Day Analysis Date: 14-NOV-08 18:04:10

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	100	88.5	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDD	100	76.9	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	100	95.1	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	88.6	40.0 - 130 ✓
13C-OCDD	200	160	50.0 - 260 ✓
13C-2,3,7,8-TCDF	100	85.4	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	100	79.2	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	100	99.9	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	83.3	40.0 - 130 ✓
13C-OCDF	200	199	50.0 - 260 ✓
CLEANUP STANDARD			
13C-1,2,3,7,8,9-HxCDF	100	103	40.0 - 130 ✓
PRE-SPIKE STANDARD			
37Cl-2,3,7,8-TCDD	100	103	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDD	100	97.1	70.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	100	71.7	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	100	100	70.0 - 130 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	126	70.0 - 130 ✓

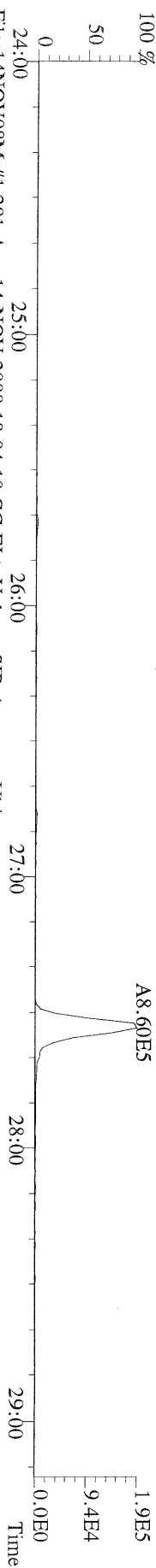
Analyst: SE Date: 11/17/08

NATO 1989 Tox: 42.0
WHO 1998 Tox: 52.4

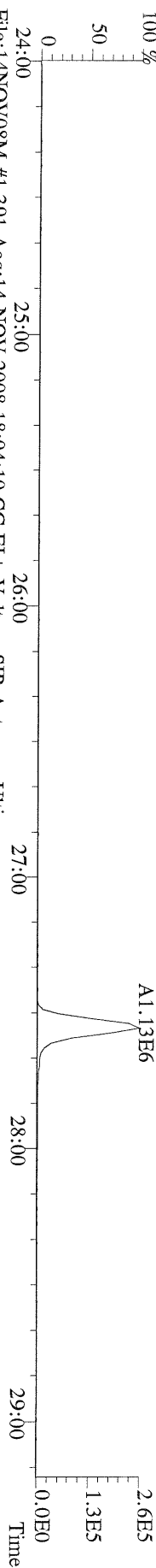
Analyst:

Date:

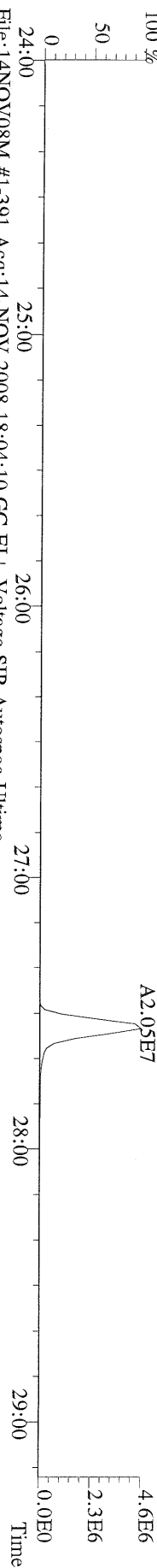
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



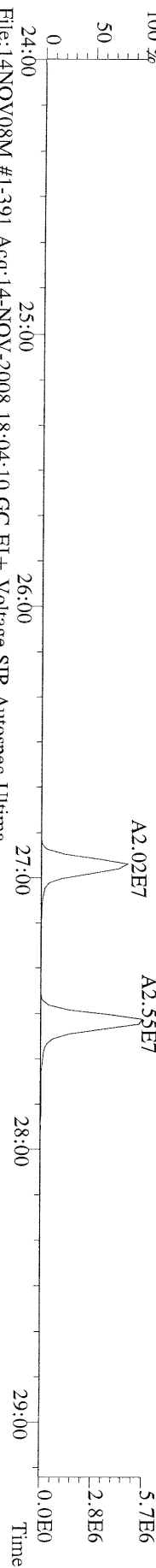
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321.8936 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



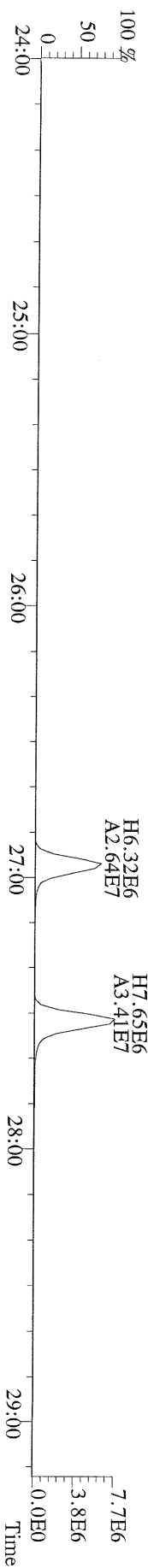
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327.8847 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



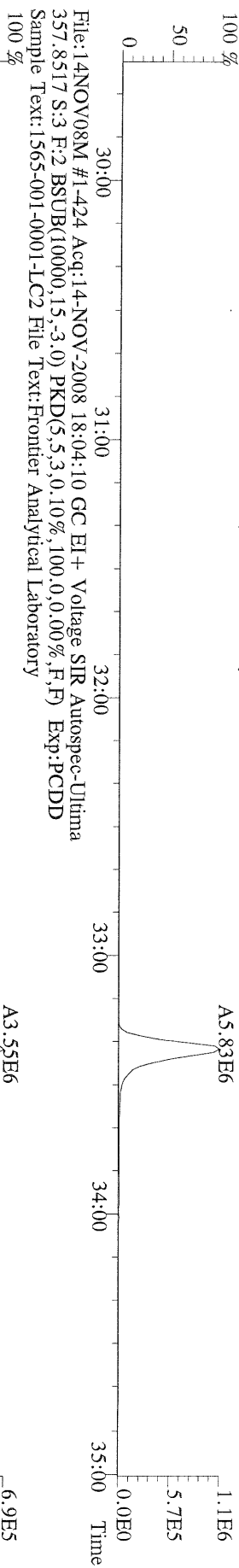
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331.9368 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



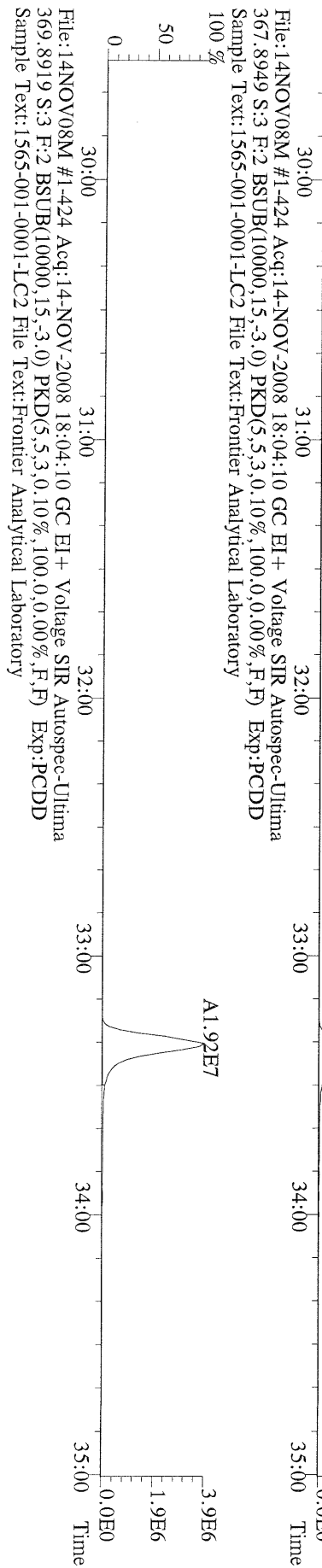
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



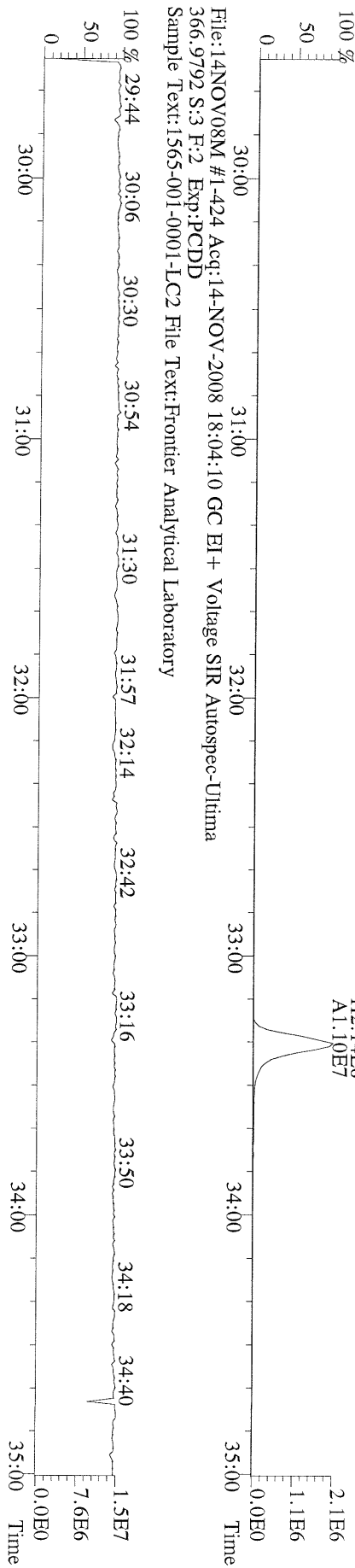
File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



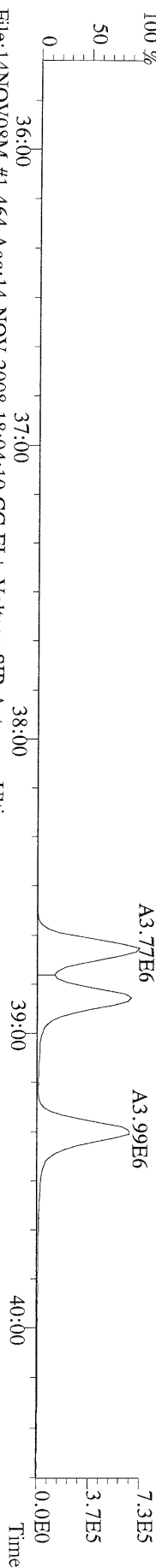
File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



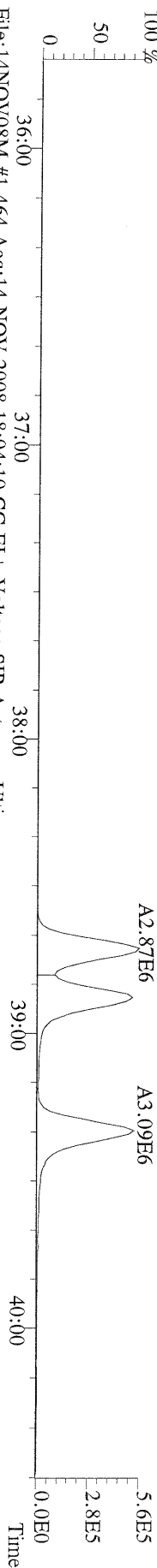
File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
366.9792 S:3 F:2 Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



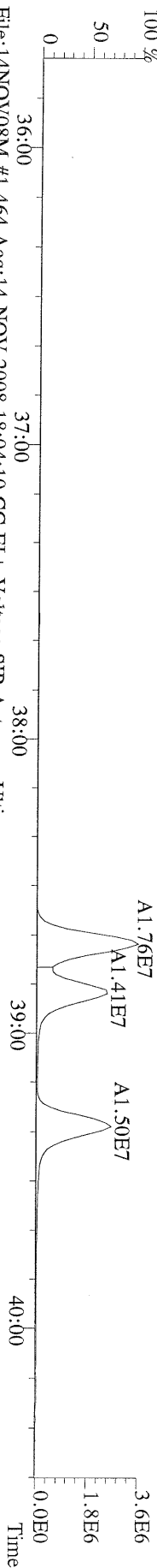
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



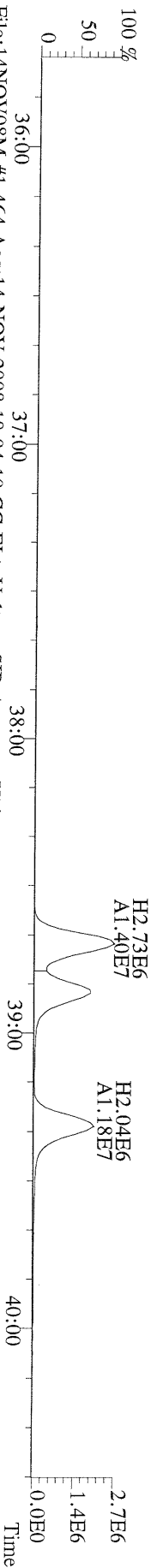
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391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



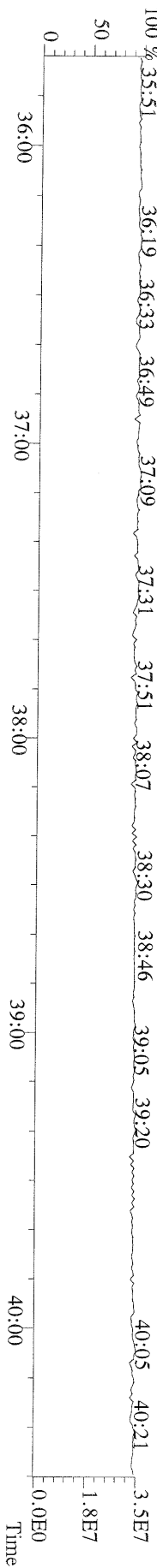
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



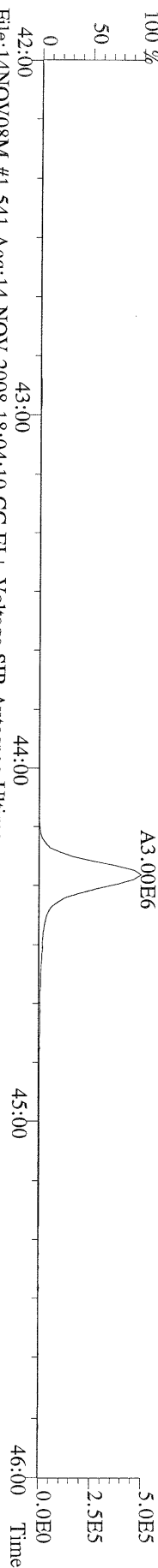
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403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



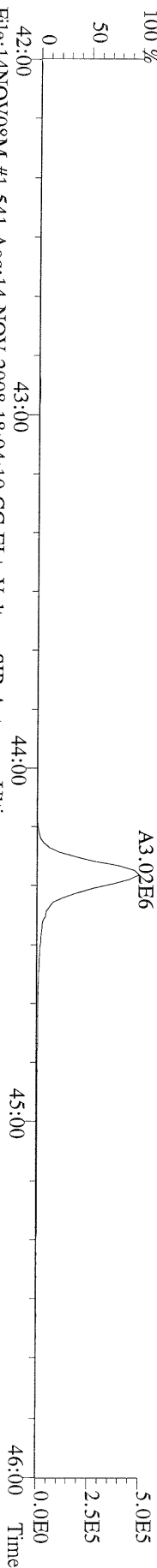
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



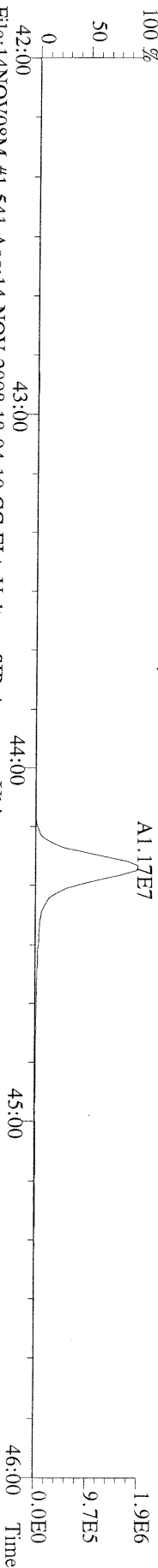
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



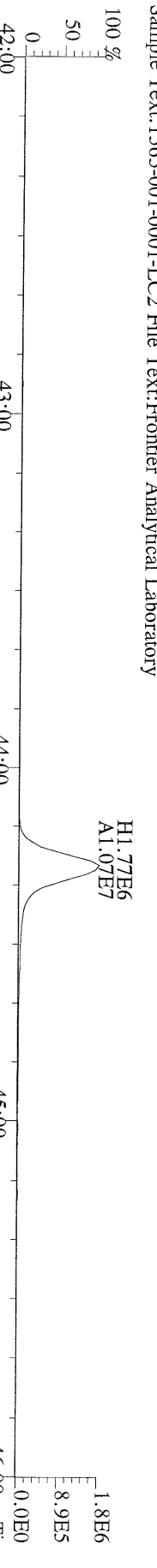
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



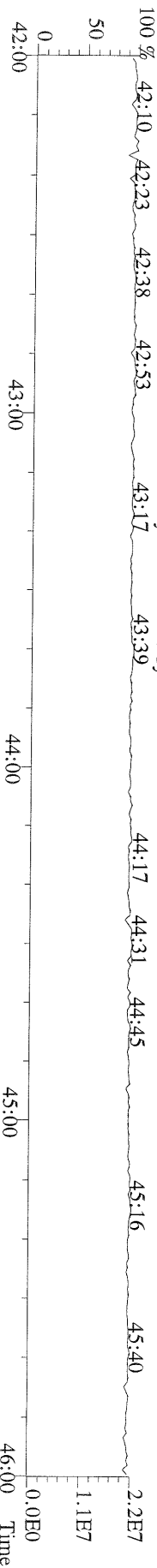
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



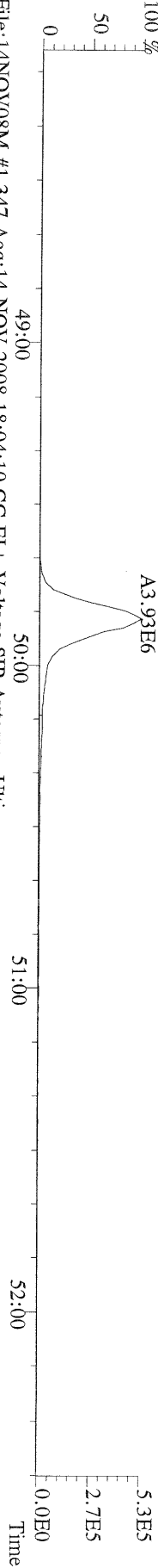
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



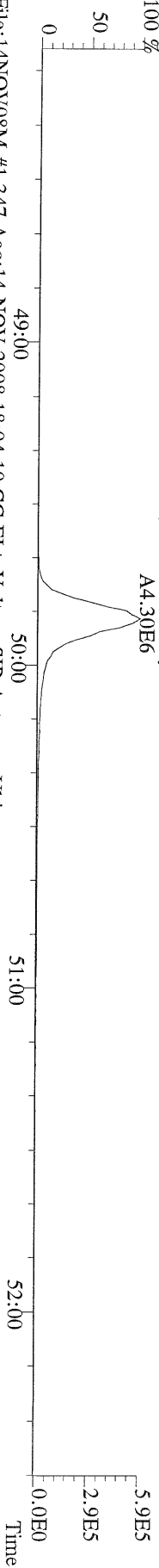
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:3 F:4 Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



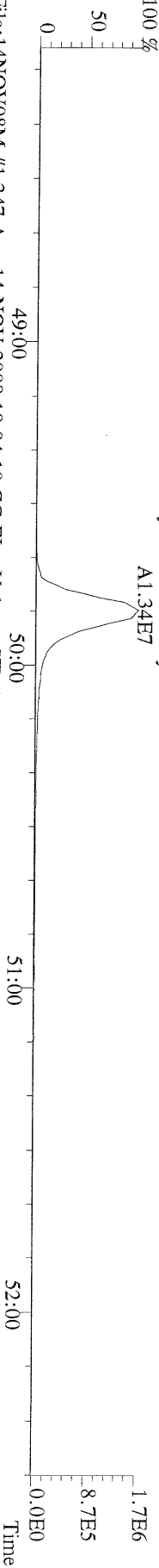
File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



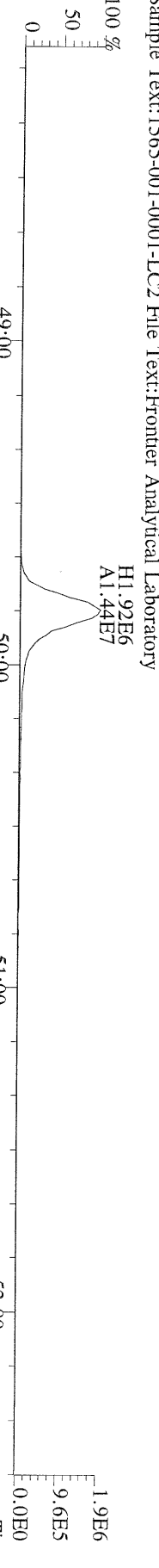
File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



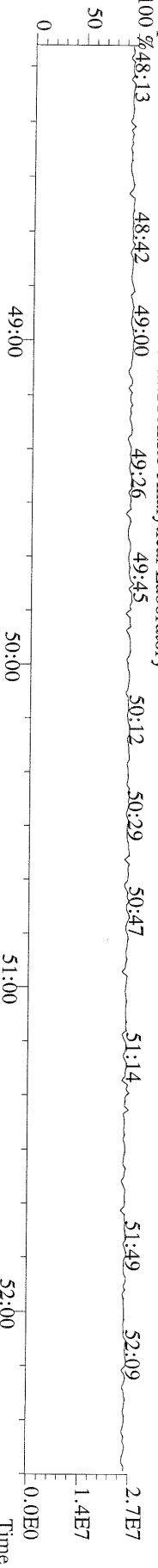
File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



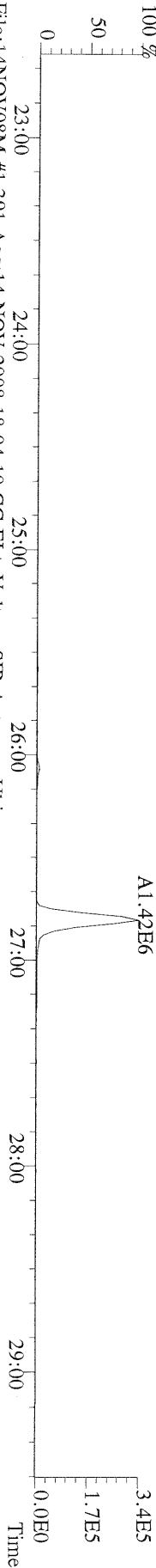
File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



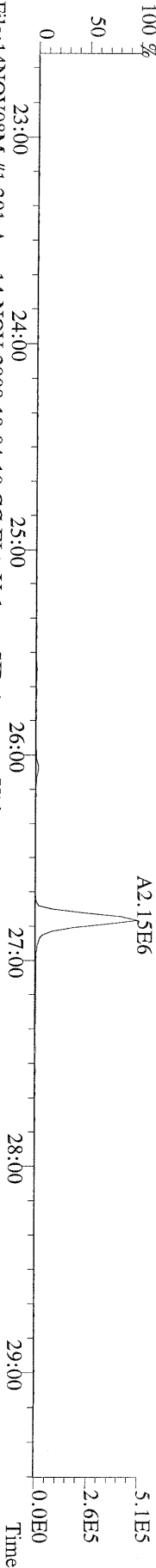
File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



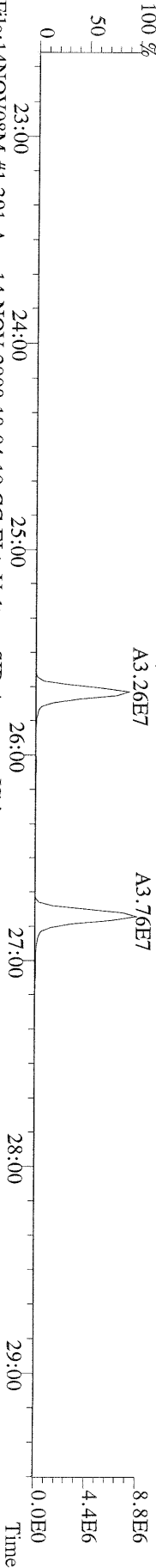
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



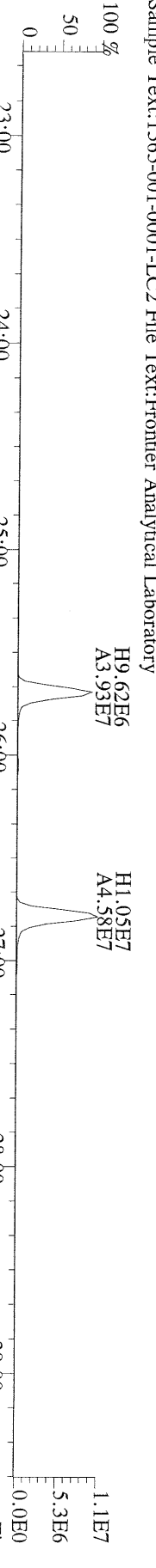
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



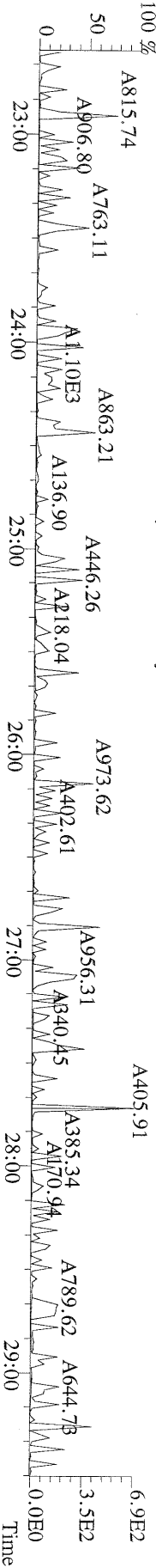
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



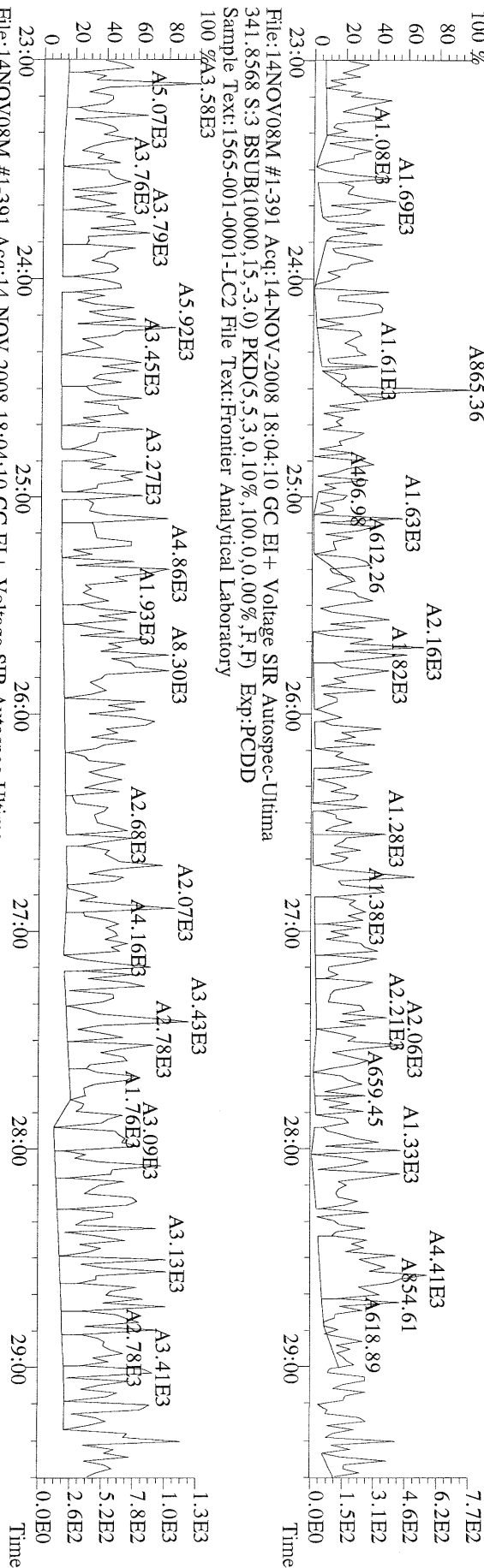
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



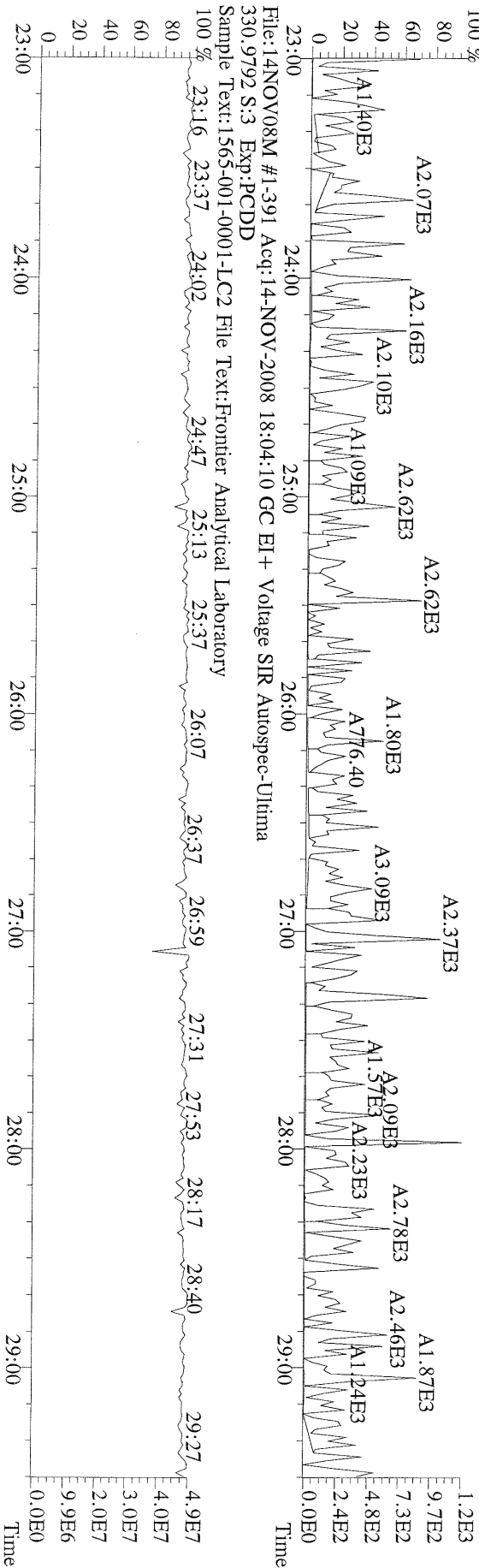
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



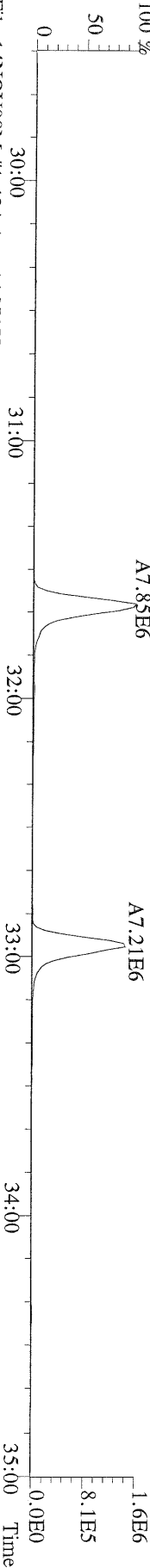
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



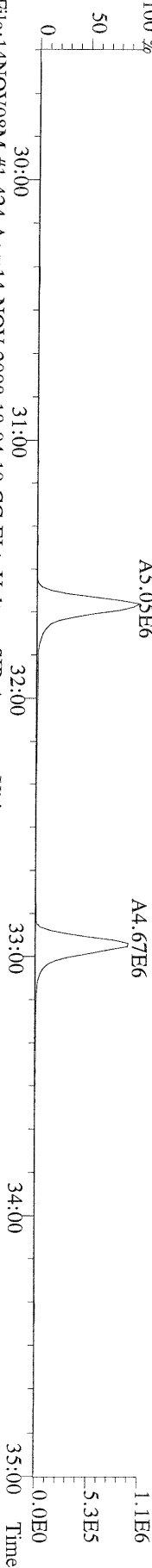
File:14NOV08M #1-391 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



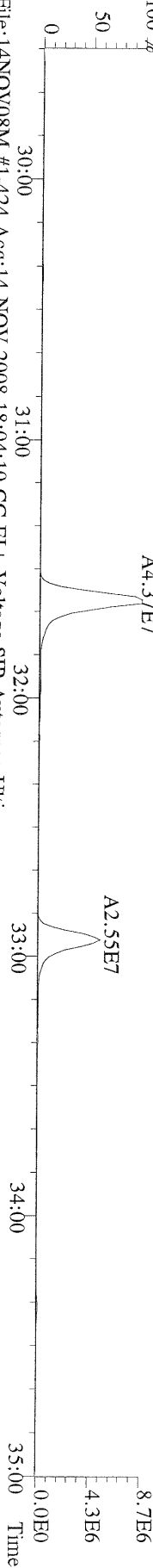
File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



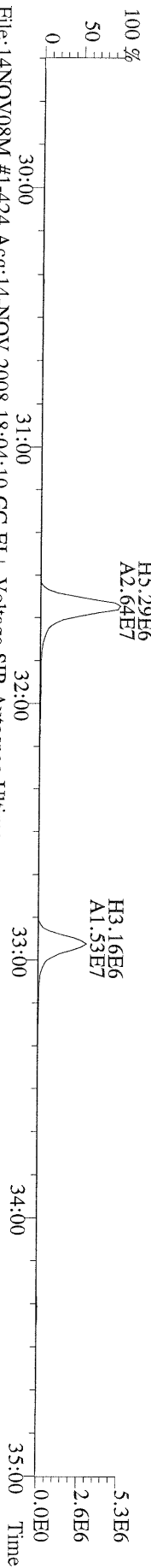
File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



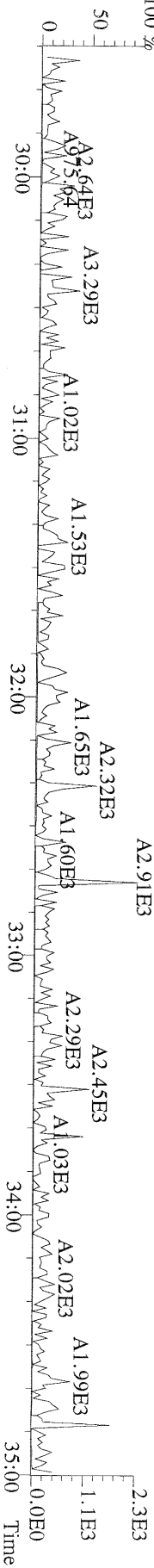
File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-424 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



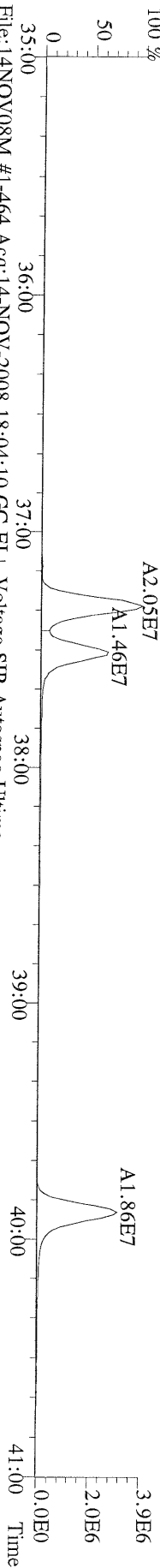
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



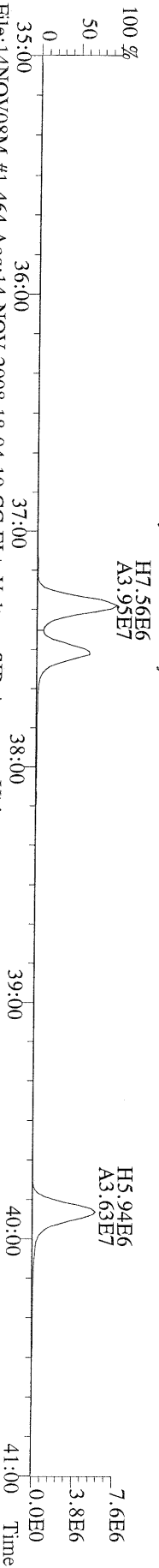
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



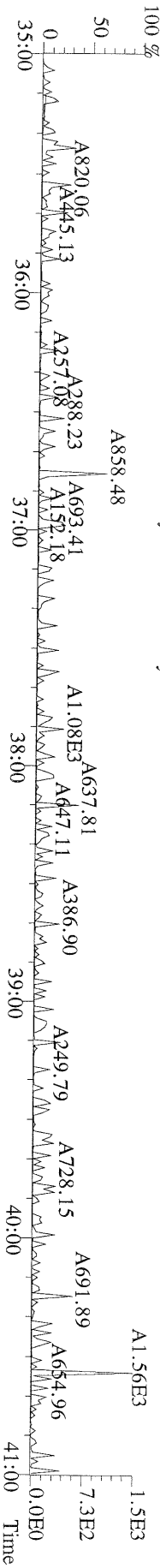
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



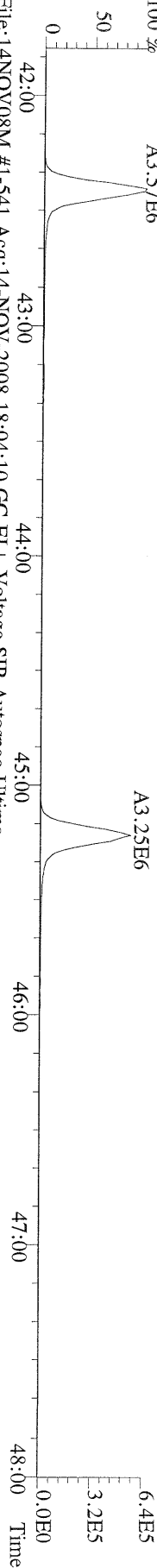
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



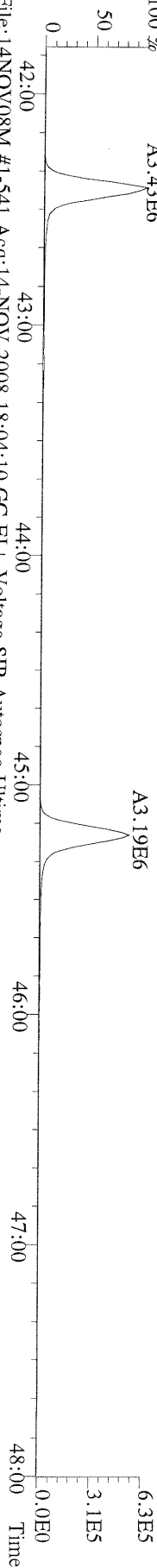
File:14NOV08M #1-464 Acq:14-NOV-2008 18:04:10 GC EI + Voltage SIR Autospec-Ultima
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



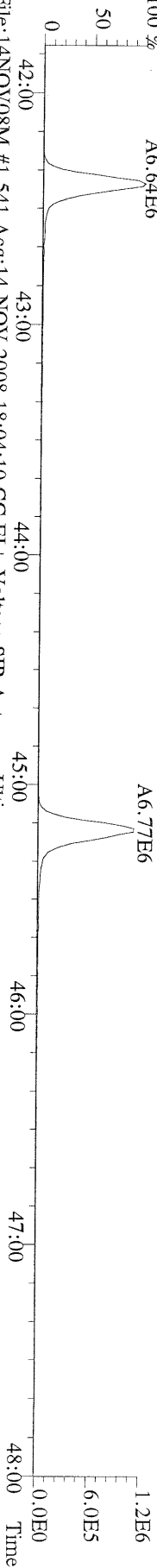
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



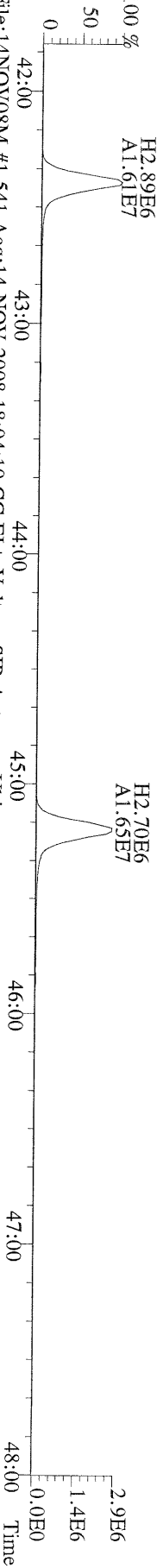
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



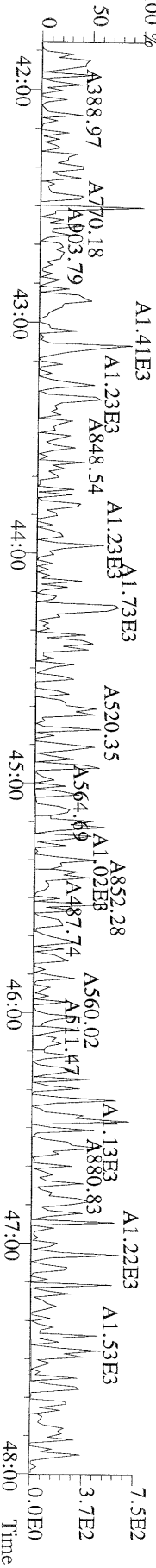
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



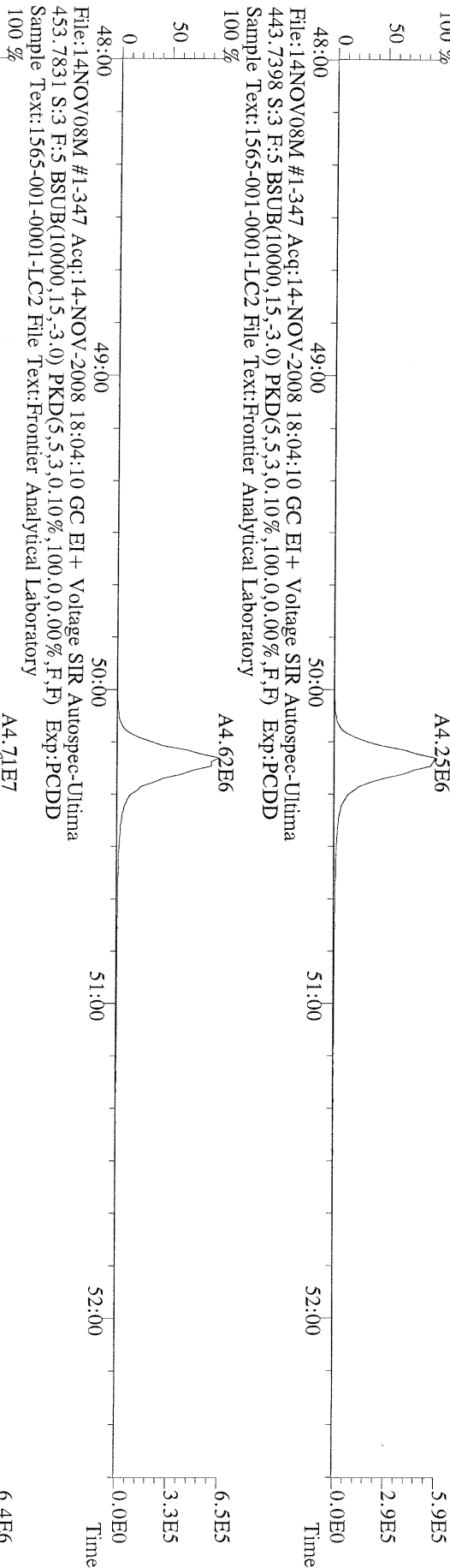
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



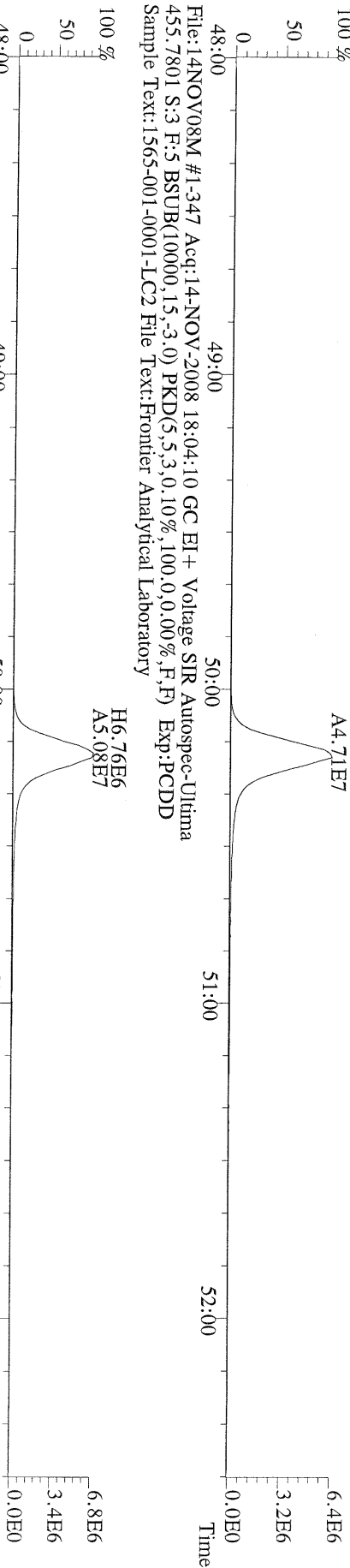
File:14NOV08M #1-541 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



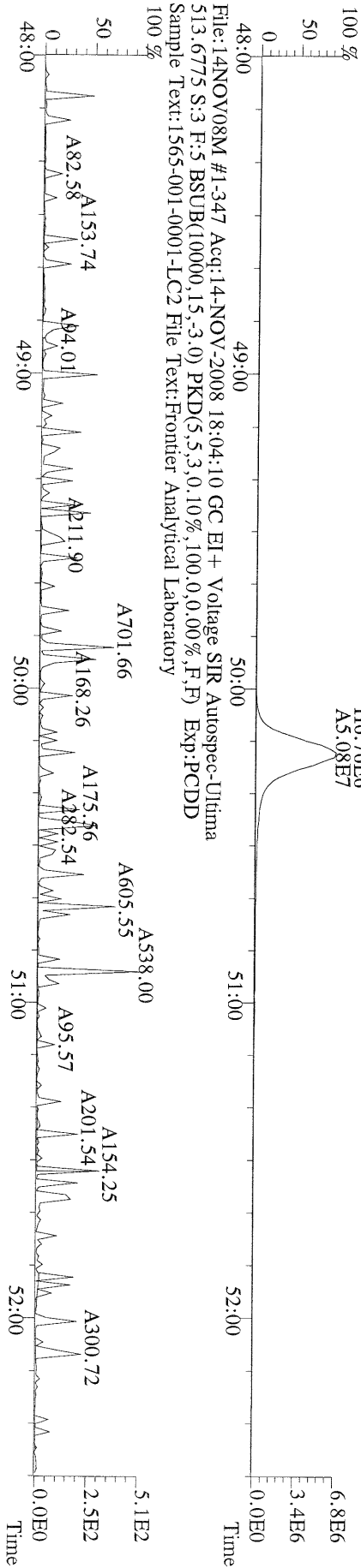
File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-347 Acq:14-NOV-2008 18:04:10 GC EI+ Voltage SIR Autospec-Utima
513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1565-001-0001-LC2 File Text:Frontier Analytical Laboratory



ICal: AIRFAL3-8-29-08

EndCal: ST111408M2

NATO 1989 Tox: 26.2

WHO 1998 Tox: 25.6✓

Analyst:

Date:

Totals class: Total Tetra-Dioxins Entry #: 37

Run: 12 File: 14NOV08M S: 6 I: 1 F: 1
Acquired: 14-NOV-08 20:49:53

Total Concentration: 16.3 Unnamed Concentration: 16.290

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:32	5.71e+04	6.62e+04	0.86 y	1.23e+05	9.64	
24:48	3.67e+04	4.84e+04	0.76 y	8.51e+04	6.65	

Totals class: Total Penta-Dioxins

Entry #: 38

Run: 12

File: 14NOV08M

S: 6 I: 1 F: 2

Acquired: 14-NOV-08 20:49:53

Total Concentration: 17.4

Unnamed Concentration: 17.354

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:23	4.19e+04	2.44e+04	1.72 y	6.62e+04	6.51	
31:36	3.98e+04	2.36e+04	1.68 y	6.34e+04	6.22	
31:59	2.92e+04	1.79e+04	1.63 y	4.71e+04	4.63	

Totals class: Total Hexa-Dioxins

Entry #: 39

Run: 12

File: 14NOV08M

S: 6 I: 1 F: 3

Acquired: 14-NOV-08 20:49:53

Total Concentration: 21.7

Unnamed Concentration: 21.731

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
37:10	4.95e+04	3.84e+04 1.29 y	8.79e+04	12.2	
37:36	4.01e+04	2.90e+04 1.38 y	6.91e+04	9.57	

Totals class: Total Hepta-Dioxins Entry #: 40

Run: 12 File: 14NOV08M S: 6 I: 1 F: 4
Acquired: 14-NOV-08 20:49:53

Total Concentration: 31.6 Unnamed Concentration: 13.106

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
42:55	3.52e+04	3.72e+04 0.95 y	7.23e+04	13.1	
44:18	5.27e+04	4.96e+04 1.06 y	1.02e+05	18.5	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 41

Run: 12

File: 14NOV08M

S: 6 I: 1 F: 1

Acquired: 14-NOV-08 20:49:53

Total Concentration: 282

Unnamed Concentration: 264.701

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
23:12	4.12e+04	5.80e+04 0.71 y	9.92e+04	4.91	
23:33	8.61e+04	1.21e+05 0.71 y	2.08e+05	10.3	
23:57	5.92e+04	8.67e+04 0.68 y	1.46e+05	7.22	
24:19	3.98e+05	6.05e+05 0.66 y	1.00e+06	49.6	
24:34	3.10e+05	4.66e+05 0.66 y	7.76e+05	38.4	
24:53	8.29e+04	1.26e+05 0.66 y	2.09e+05	10.3	
24:59	2.73e+04	3.93e+04 0.69 y	6.65e+04	3.29	
25:06	8.62e+04	1.17e+05 0.74 y	2.03e+05	10.0	
25:24	1.30e+05	1.86e+05 0.70 y	3.16e+05	15.6	
25:36	7.69e+04	1.17e+05 0.66 y	1.94e+05	9.57	
25:42	3.29e+05	4.86e+05 0.68 y	8.15e+05	40.3	
26:04	1.93e+05	2.93e+05 0.66 y	4.86e+05	24.0	
26:18	4.21e+04	6.37e+04 0.66 y	1.06e+05	5.23	
26:26	3.66e+04	5.55e+04 0.66 y	9.21e+04	4.56	
26:43	1.61e+05	2.45e+05 0.66 y	4.06e+05	20.1	
26:48	1.41e+05	2.07e+05 0.68 y	3.48e+05	17.2	2,3,7,8-TCDF
27:07	5.39e+04	6.91e+04 0.78 y	1.23e+05	6.08	
27:22	2.32e+04	2.67e+04 0.87 y	4.99e+04	2.47	
28:43	2.20e+04	3.18e+04 0.69 y	5.38e+04	2.66	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 42

Run: 12 File: 14NOV08M S: 6 I: 1 F: 1
Acquired: 14-NOV-08 20:49:53

Total Concentration: 30.9 Unnamed Concentration: 30.928

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
28:36	2.34e+05	1.49e+05 1.57 y	3.83e+05	30.9	

Totals class: Total Penta-Furans

Entry #: 43

Run: 12

File: 14NOV08M

S: 6 I: 1 F: 2

Acquired: 14-NOV-08 20:49:53

Total Concentration: 243

Unnamed Concentration: 202.573

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:09	1.96e+05	1.22e+05	1.61 y	3.18e+05	25.6	
30:23	4.89e+05	3.41e+05	1.44 y	8.30e+05	66.9	
30:34	4.59e+04	3.15e+04	1.46 y	7.74e+04	6.25	
30:52	6.18e+04	4.19e+04	1.47 y	1.04e+05	8.36	
31:04	1.37e+05	9.38e+04	1.46 y	2.31e+05	18.6	
31:13	1.06e+05	6.99e+04	1.51 y	1.76e+05	14.2	
31:24	1.14e+05	8.50e+04	1.35 y	1.99e+05	16.1	
31:38	2.06e+05	1.39e+05	1.48 y	3.45e+05	27.1	1,2,3,7,8-PeCDF
31:59	1.23e+05	9.13e+04	1.35 y	2.14e+05	17.3	
32:11	5.30e+04	3.71e+04	1.43 y	9.00e+04	7.26	
32:40	2.25e+04	1.65e+04	1.36 y	3.90e+04	3.14	
32:48	2.51e+04	1.90e+04	1.32 y	4.41e+04	3.56	
32:57	9.98e+04	6.20e+04	1.61 y	1.62e+05	13.4	2,3,4,7,8-PeCDF
33:00	5.25e+04	3.79e+04	1.39 y	9.04e+04	7.29	
33:23	2.95e+04	1.88e+04	1.57 y	4.83e+04	3.90	
34:21	2.93e+04	2.12e+04	1.38 y	5.05e+04	4.07	

Totals class: Total Hexa-Furans

Entry #: 44

Run: 12

File: 14NOV08M

S: 6 I: 1 F: 3

Acquired: 14-NOV-08 20:49:53

Total Concentration: 304

Unnamed Concentration: 173.367

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:22	2.10e+05	1.66e+05	1.27 y	3.75e+05	38.6	
35:39	3.56e+05	2.71e+05	1.32 y	6.27e+05	64.5	
35:58	3.13e+04	2.37e+04	1.32 y	5.50e+04	5.66	
36:15	6.57e+04	5.19e+04	1.27 y	1.18e+05	12.1	
36:33	5.10e+04	4.10e+04	1.24 y	9.20e+04	9.47	
37:10	7.00e+04	5.13e+04	1.36 y	1.21e+05	12.5	
37:19	3.12e+05	2.49e+05	1.25 y	5.61e+05	53.8	1,2,3,4,7,8-HxCDF
37:32	2.27e+05	1.78e+05	1.27 y	4.05e+05	37.6	1,2,3,6,7,8-HxCDF
37:46	7.72e+04	5.95e+04	1.30 y	1.37e+05	14.1	
37:59	3.33e+04	2.73e+04	1.22 y	6.06e+04	6.24	
38:09	5.57e+04	4.30e+04	1.29 y	9.87e+04	10.2	
38:28	1.22e+05	8.94e+04	1.37 y	2.12e+05	22.1	2,3,4,6,7,8-HxCDF
39:57	8.07e+04	6.15e+04	1.31 y	1.42e+05	17.6	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 45

Run: 12

File: 14NOV08M

S: 6 I: 1 F: 4

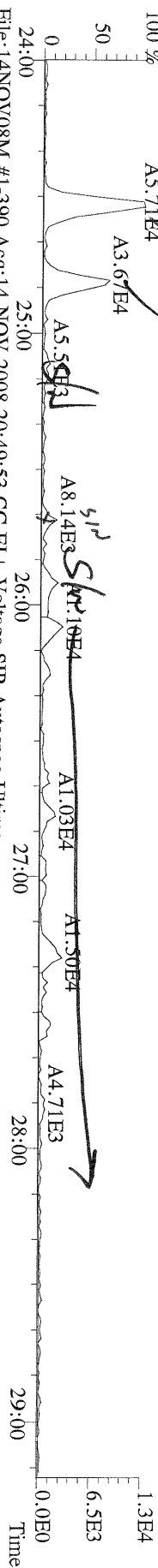
Acquired: 14-NOV-08 20:49:53

Total Concentration: 349

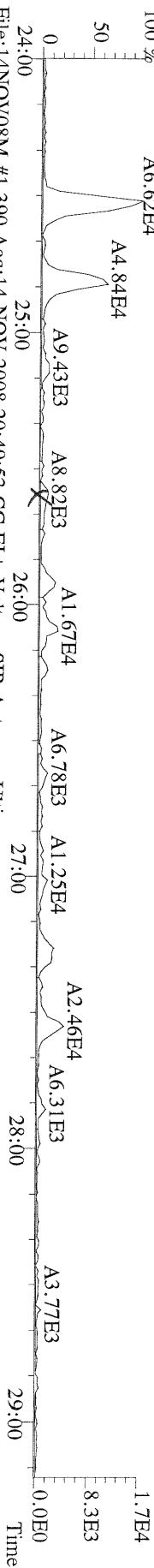
Unnamed Concentration: 104.101

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:25	5.87e+05	5.82e+05	1.01 y	1.17e+06	165	1,2,3,4,6,7,8-HpCDF
42:56	1.33e+05	1.25e+05	1.07 y	2.58e+05	41.1	
43:13	1.98e+05	1.96e+05	1.01 y	3.95e+05	63.0	
45:13	2.15e+05	2.19e+05	0.98 y	4.35e+05	79.9	1,2,3,4,7,8,9-HpCDF

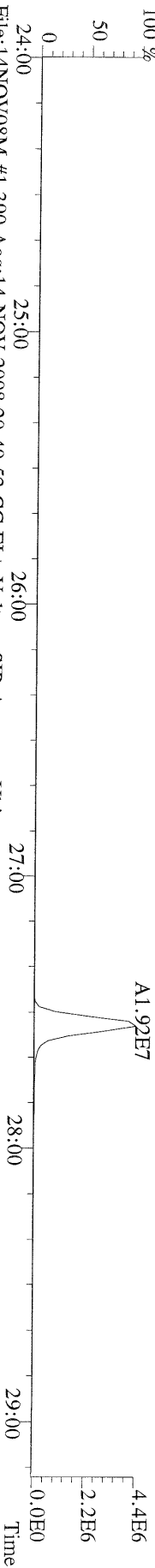
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319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



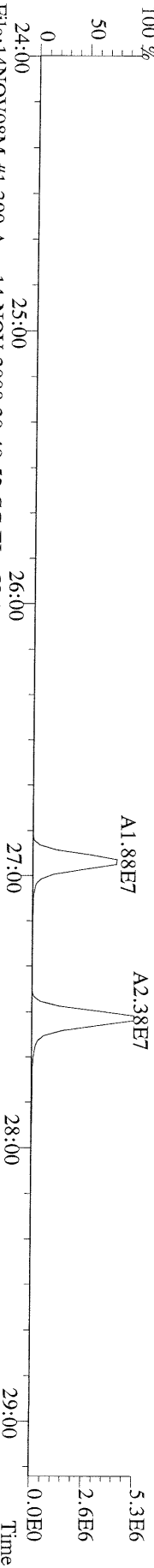
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321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



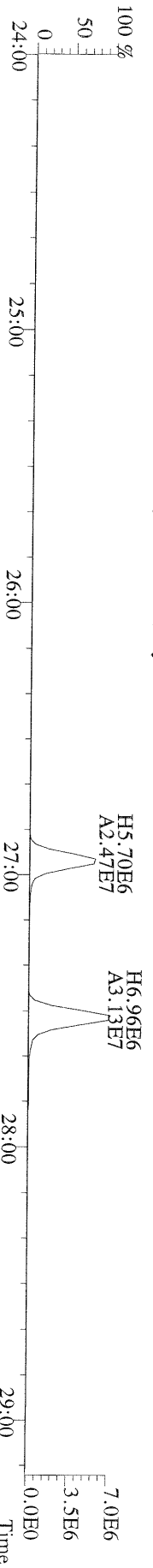
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327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



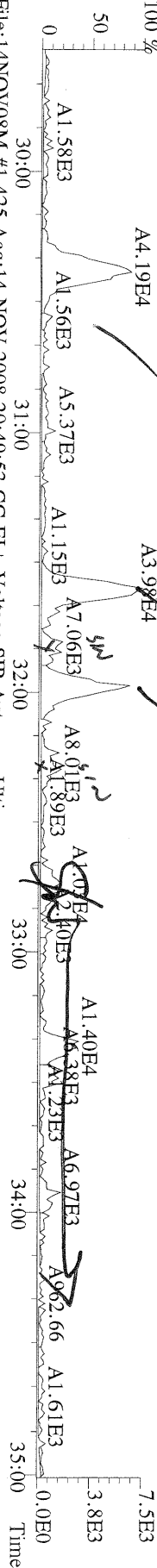
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331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



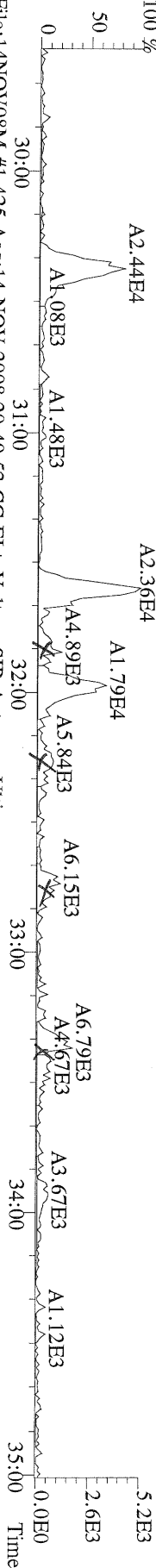
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333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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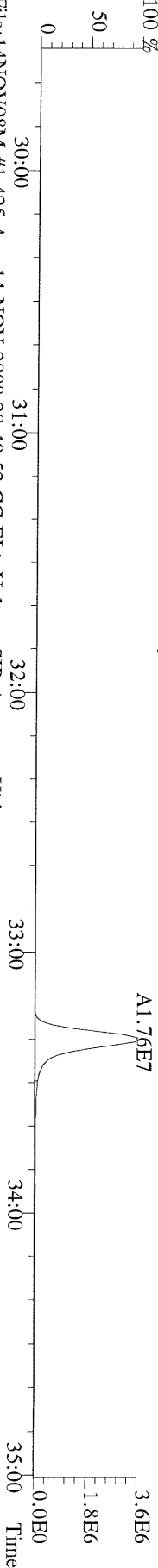
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355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



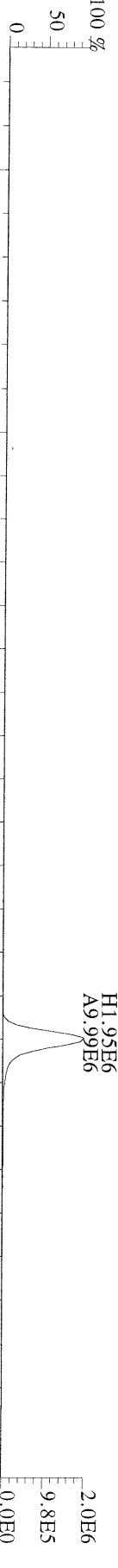
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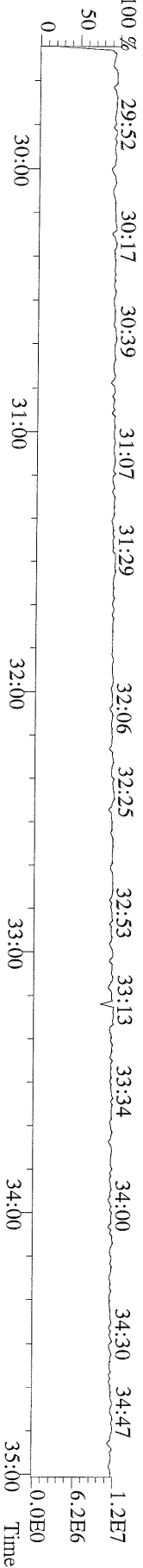
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367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



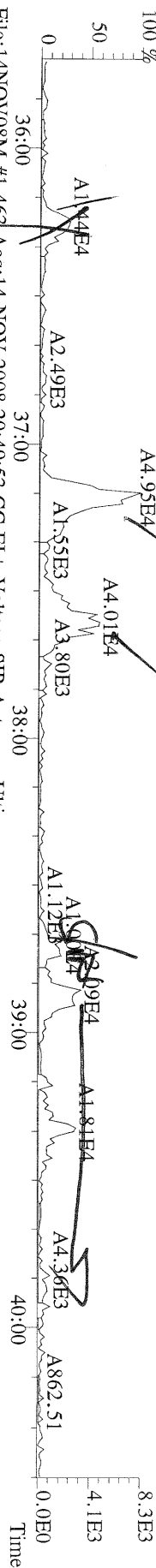
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369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



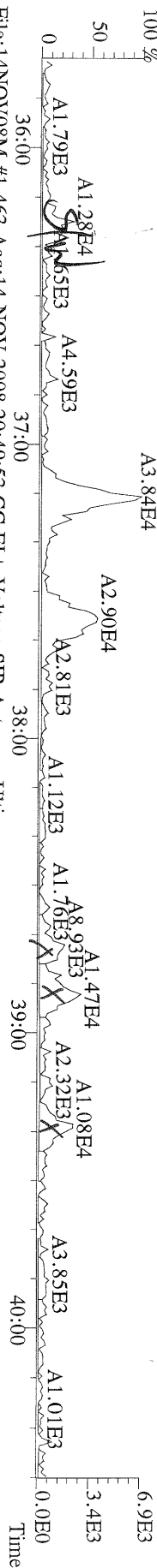
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366.9792 S:6 F:2 Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



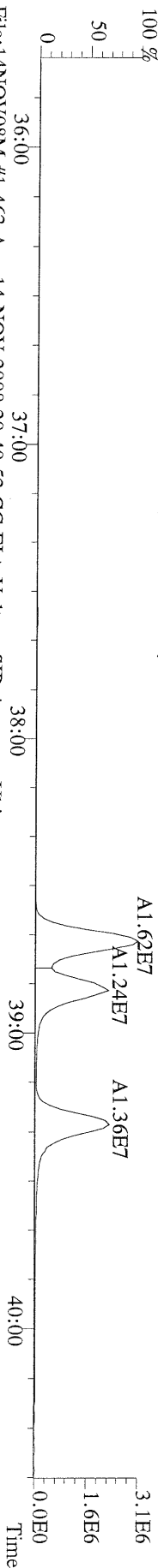
File:14NOV08M #1-463 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Utima
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



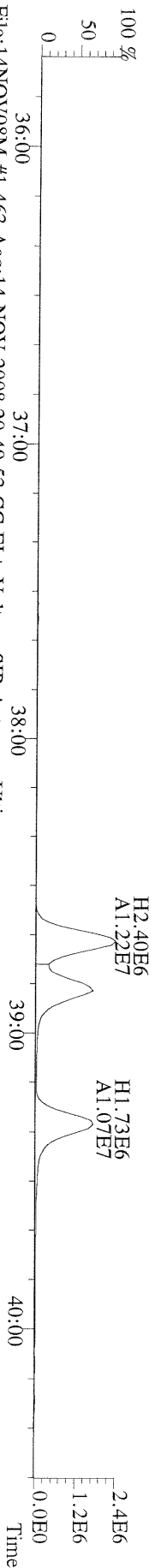
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391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



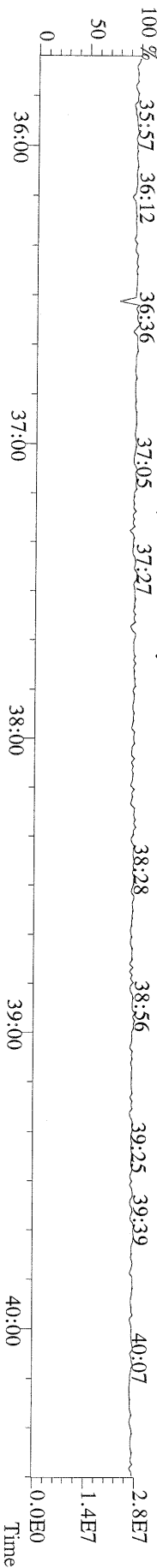
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401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



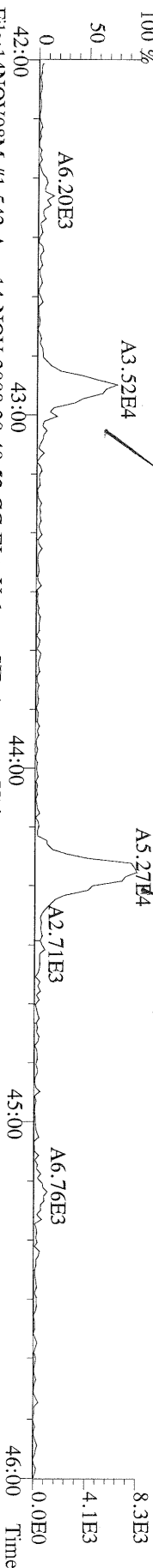
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403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



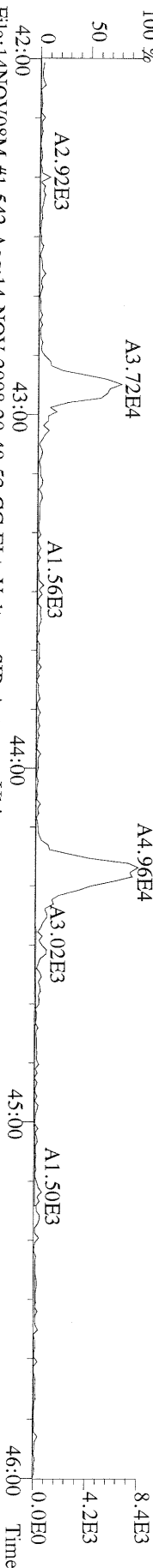
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380.9760 S:6 F:3 Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



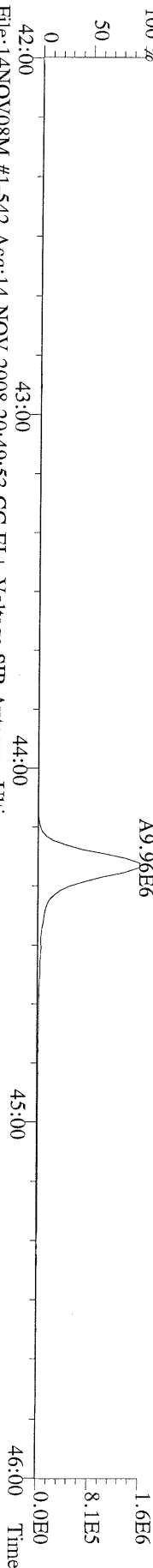
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423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



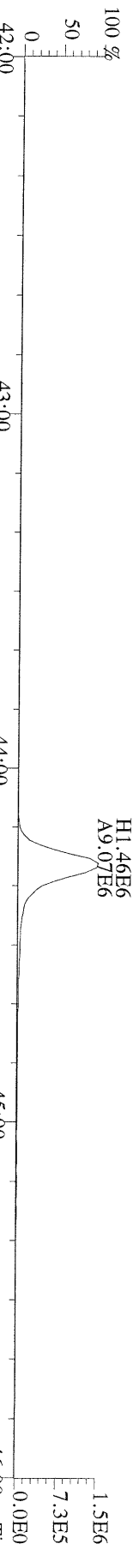
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425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



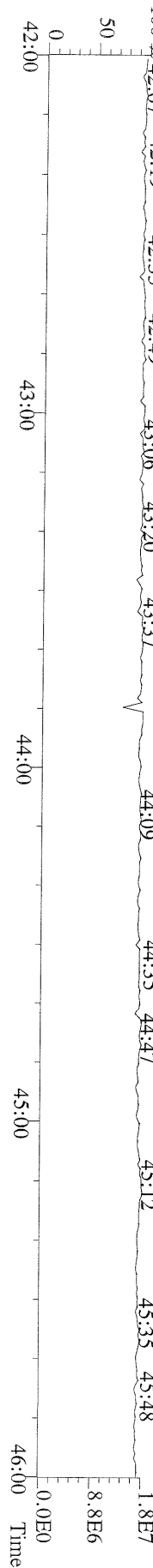
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435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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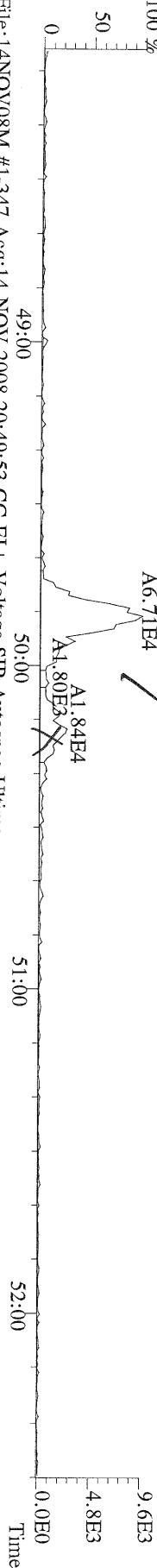
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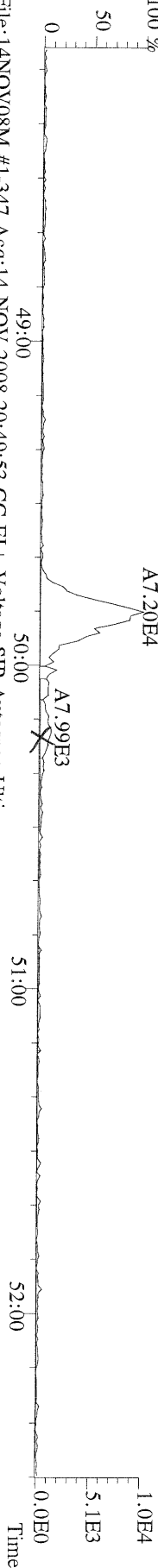
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Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



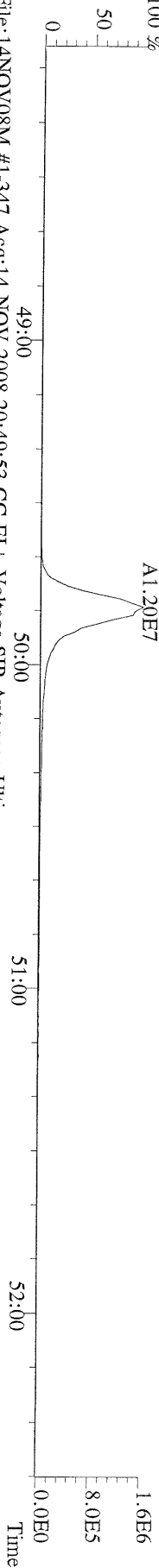
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457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



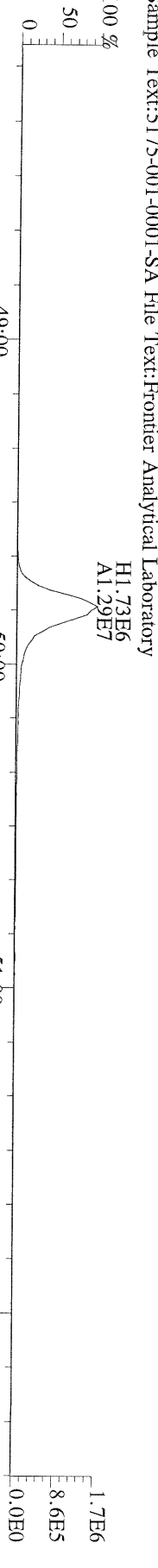
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459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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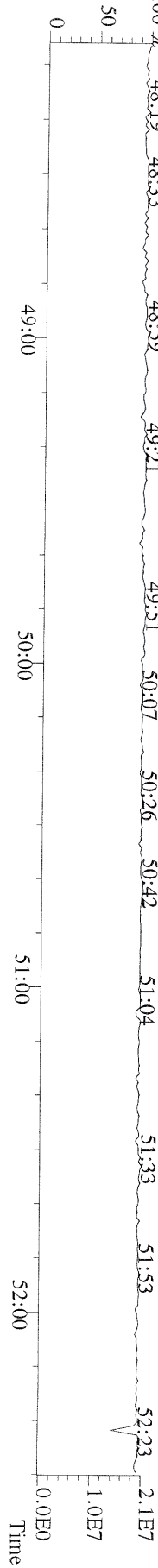
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469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



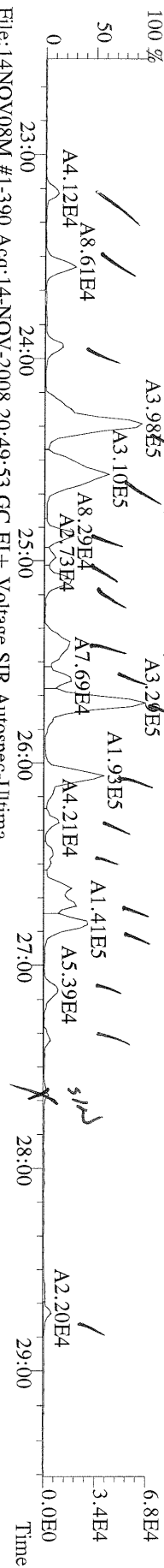
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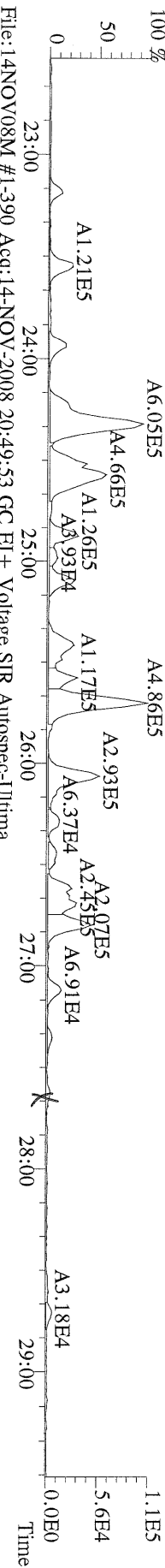
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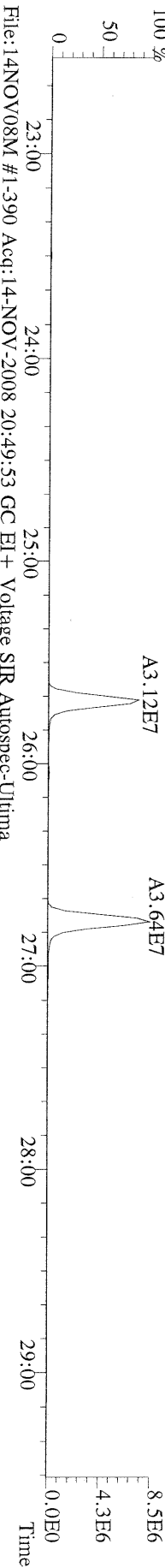
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303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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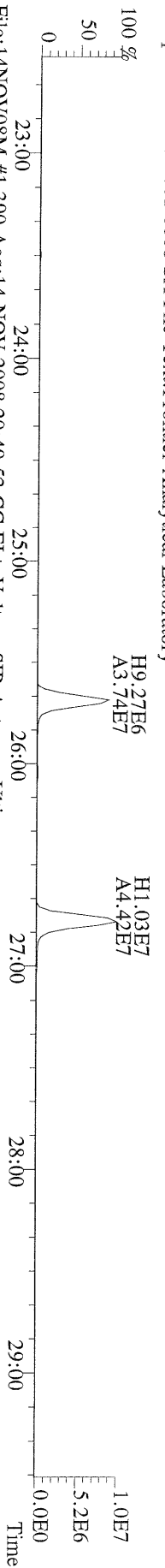
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305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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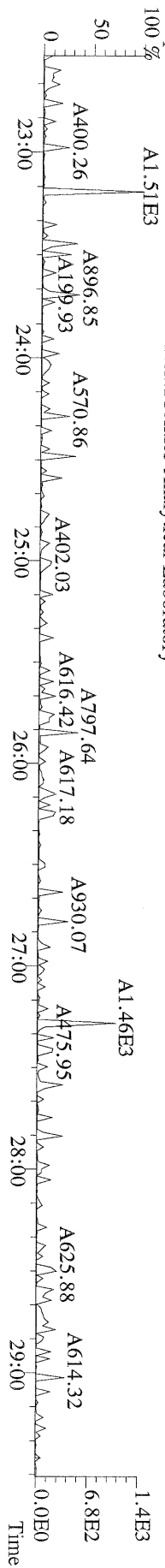
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315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



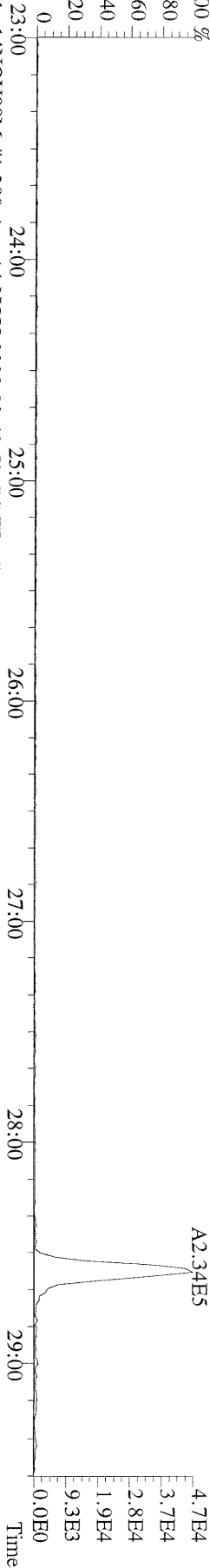
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317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



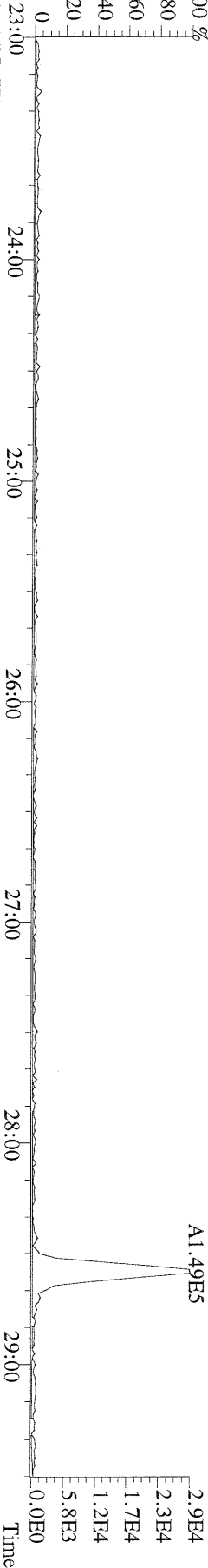
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375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



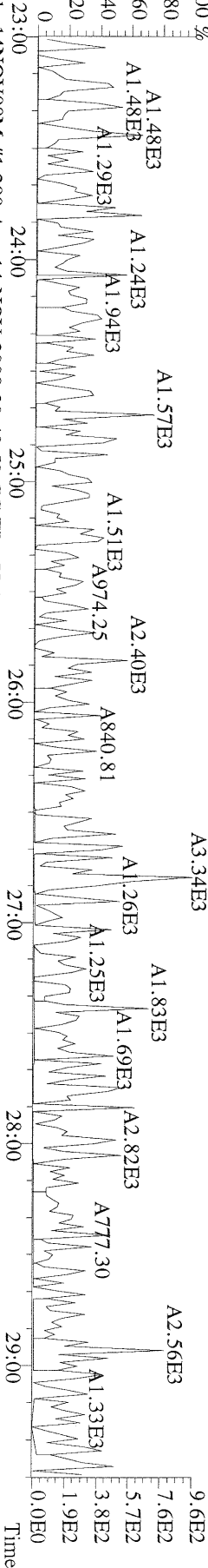
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Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



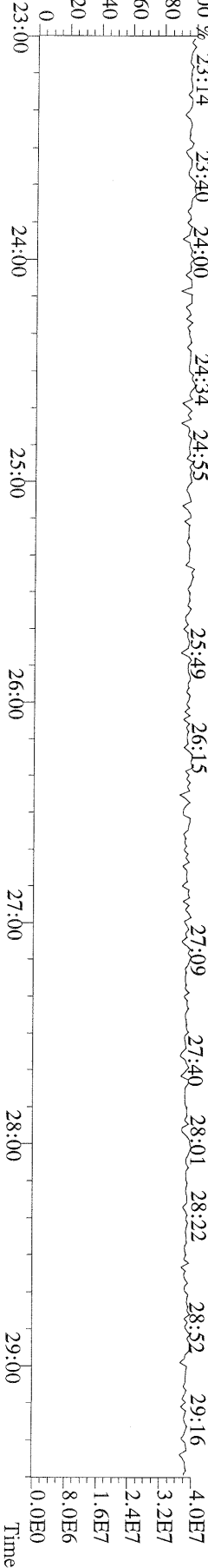
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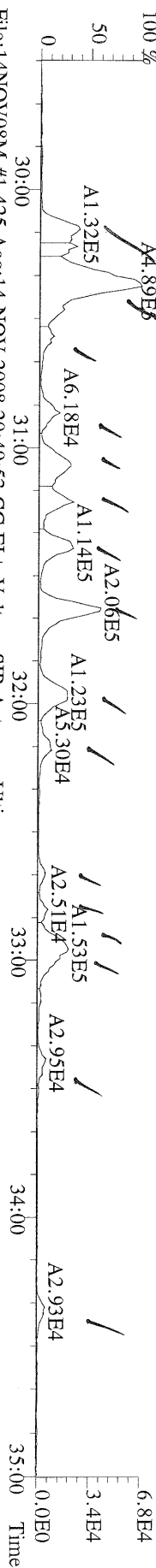
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409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



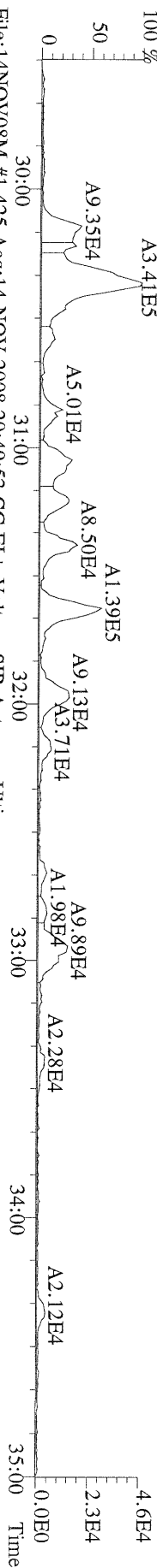
File:14NOV08M #1-390 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:6 Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



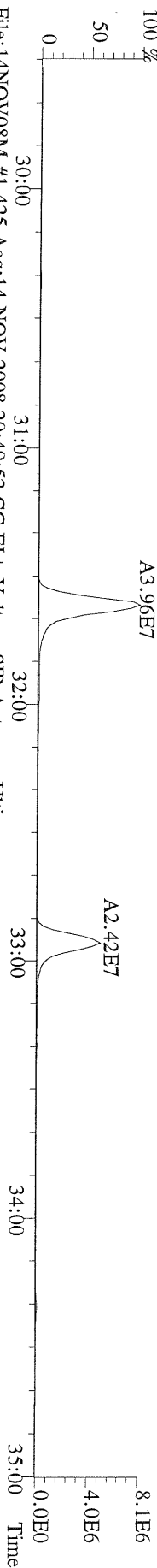
File:14NOV08M #1-425 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



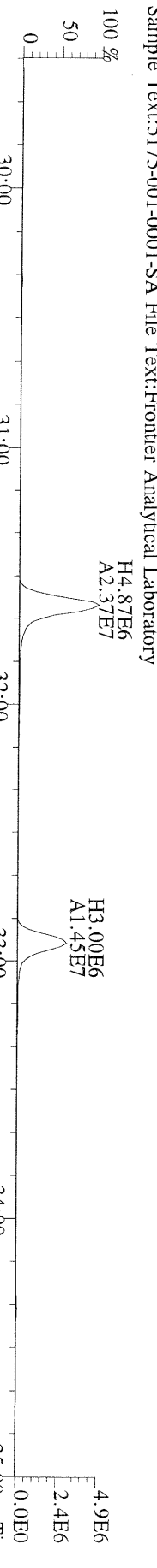
File:14NOV08M #1-425 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



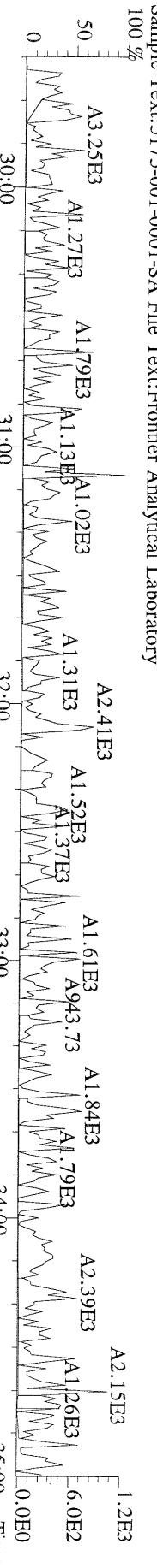
File:14NOV08M #1-425 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
331.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



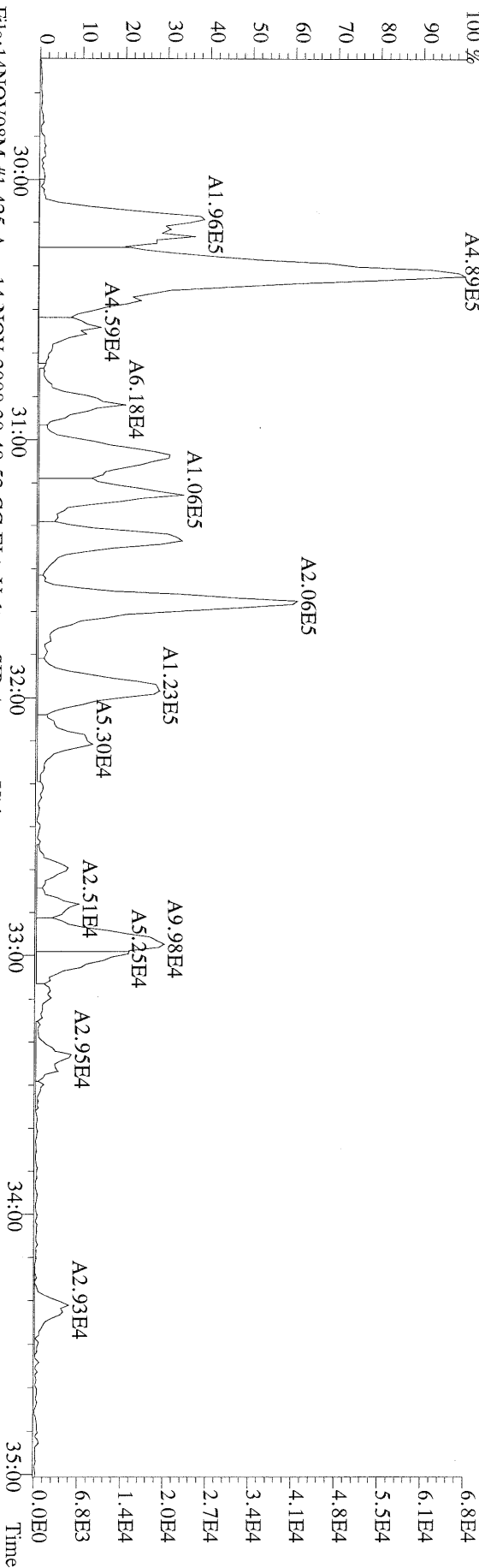
File:14NOV08M #1-425 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



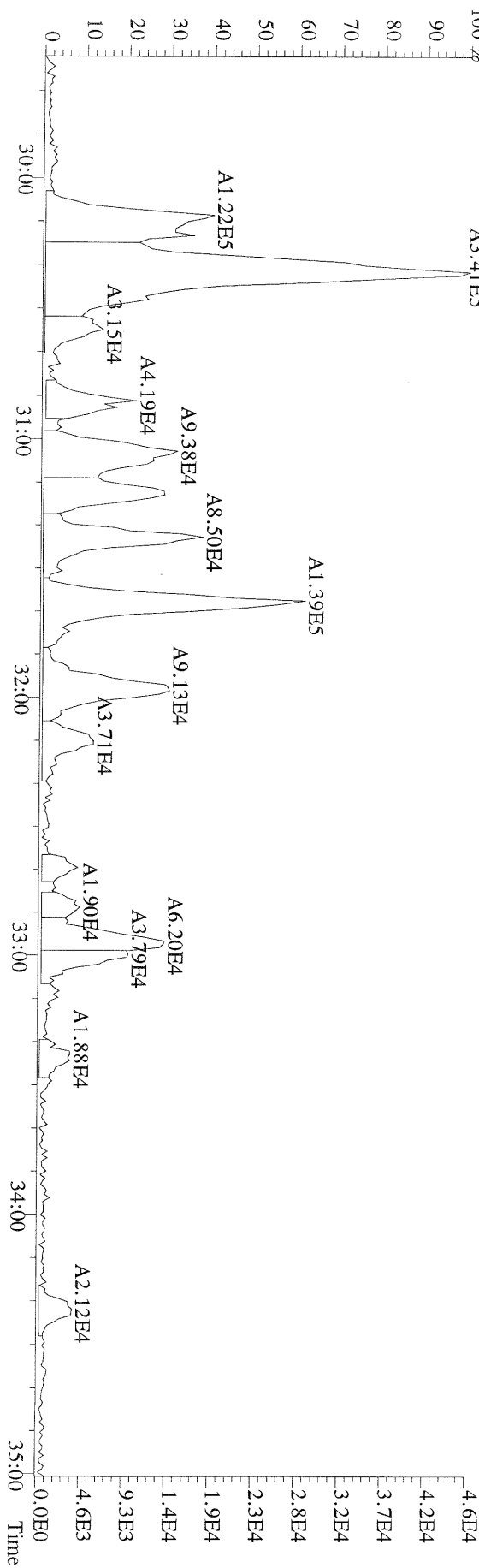
File:14NOV08M #1-425 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



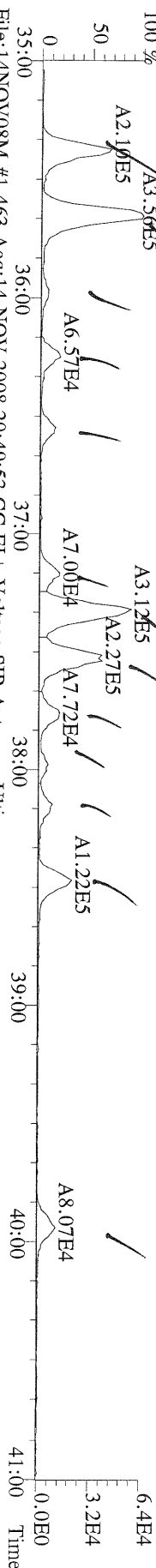
File:14NOV08M #1-425 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



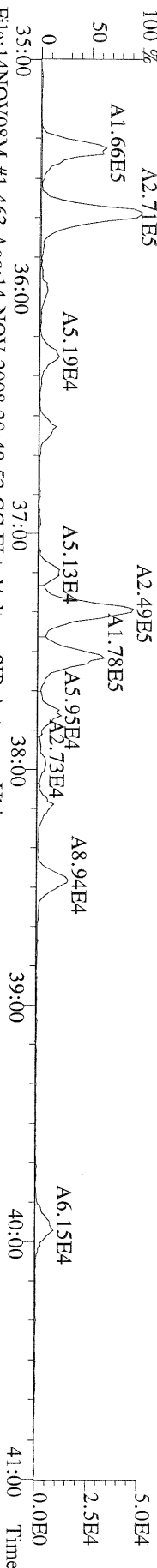
File:14NOV08M #1-425 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



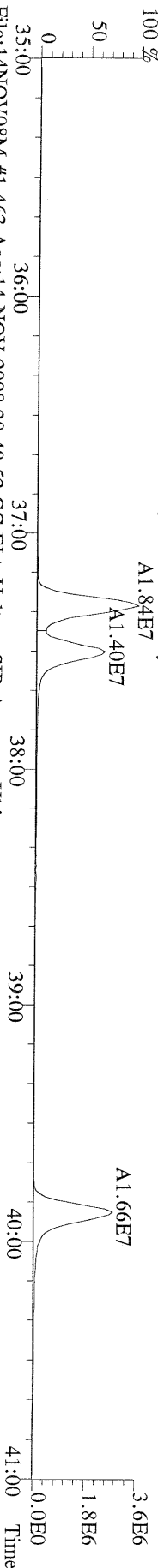
File:14NOV08M #1-463 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



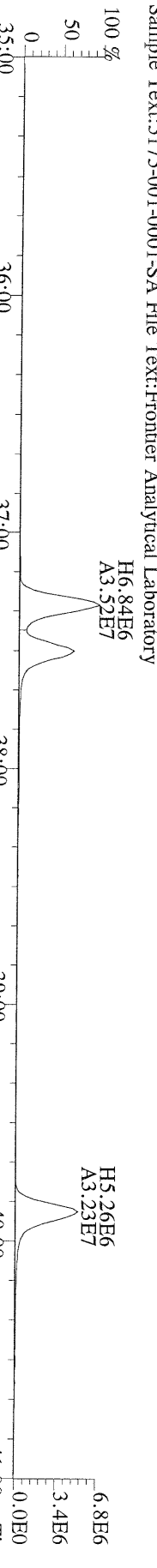
File:14NOV08M #1-463 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



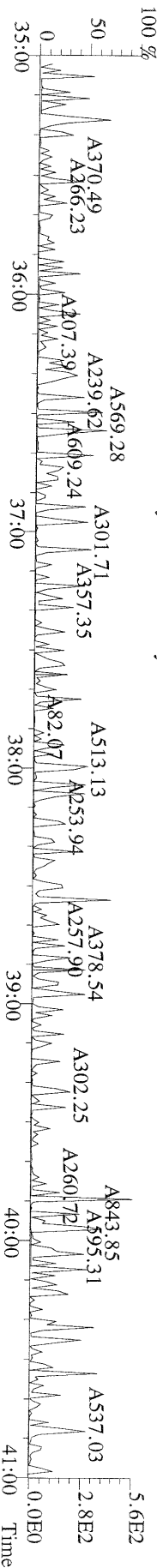
File:14NOV08M #1-463 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



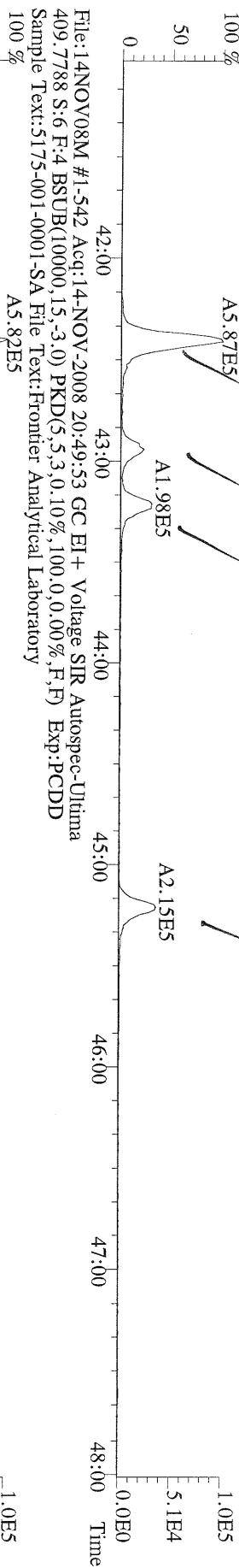
File:14NOV08M #1-463 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



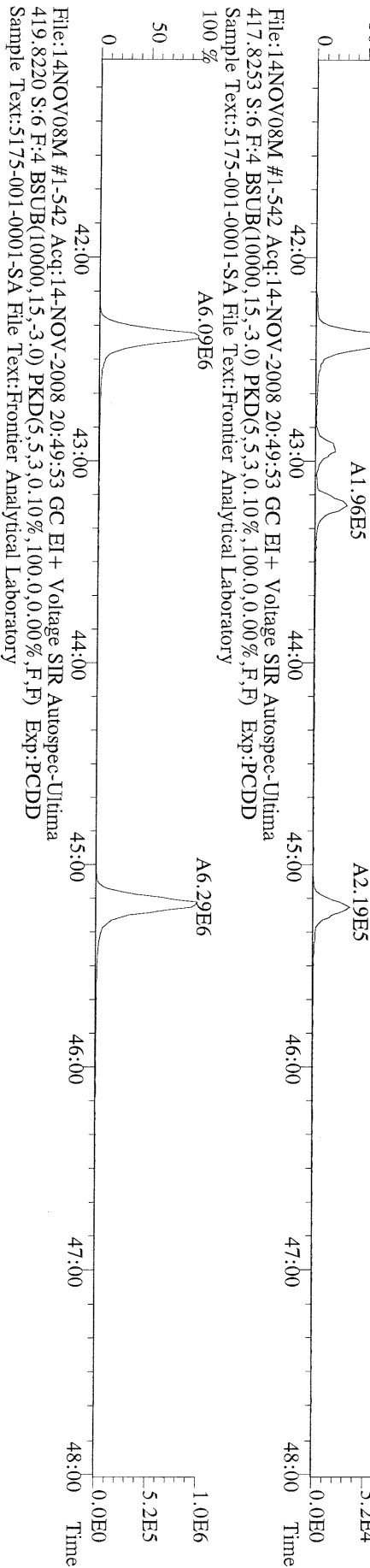
File:14NOV08M #1-463 Acq:14-NOV-2008 20:49:53 GC EI + Voltage SIR Autospec-Ultima
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



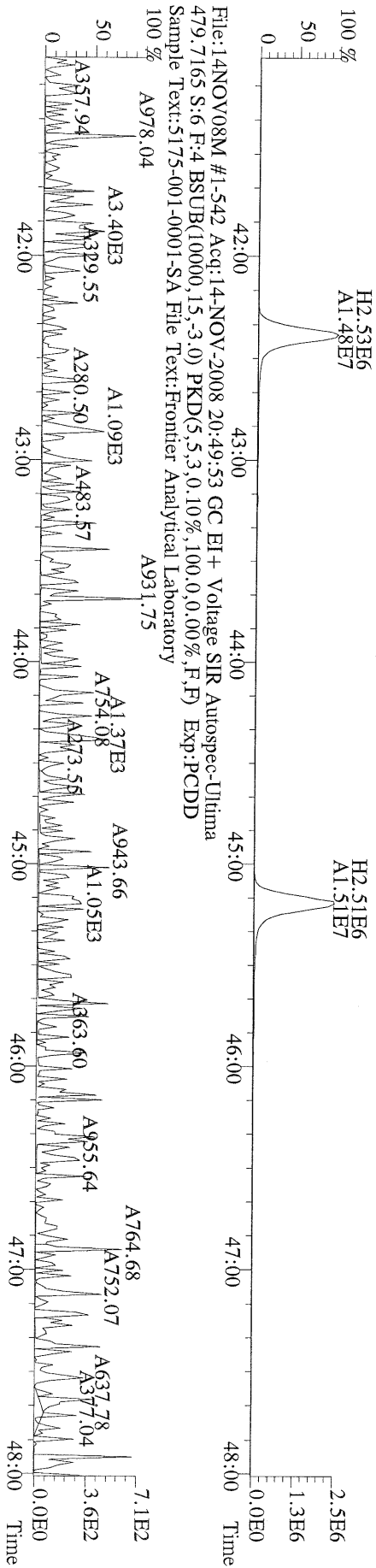
File:14NOV08M #1-542 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



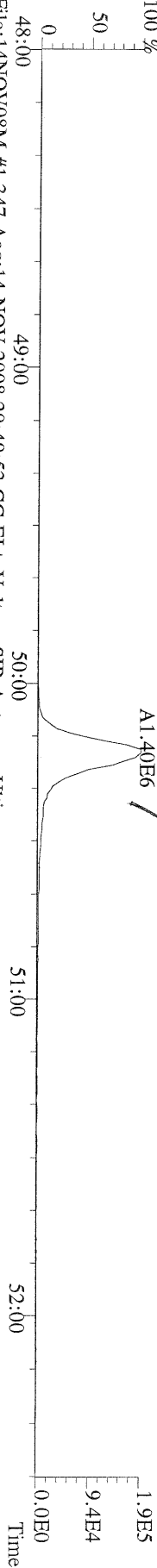
File:14NOV08M #1-542 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



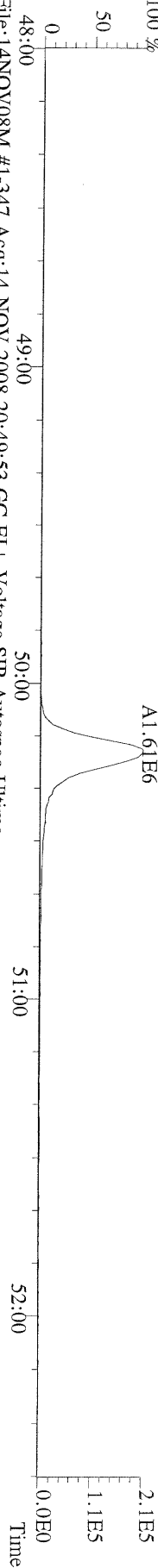
File:14NOV08M #1-542 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



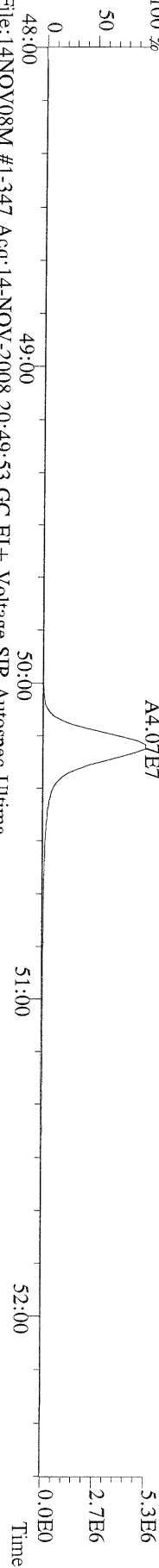
File:14NOV08M #1-347 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



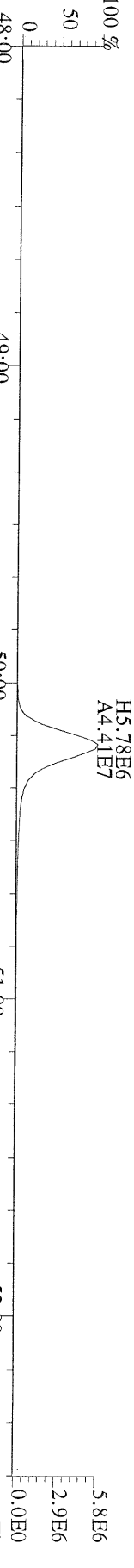
File:14NOV08M #1-347 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



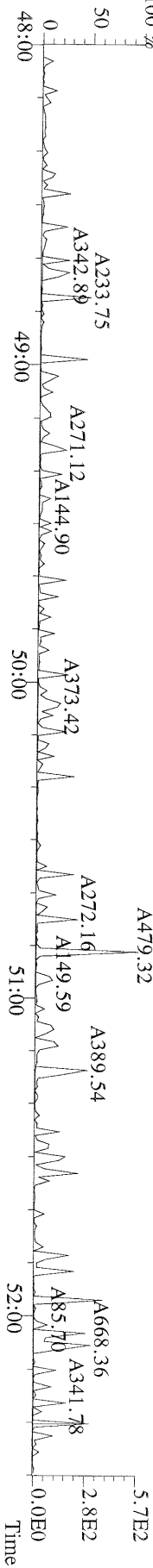
File:14NOV08M #1-347 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



File:14NOV08M #1-347 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



File:14NOV08M #1-347 Acq:14-NOV-2008 20:49:53 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-001-0001-SA File Text:Frontier Analytical Laboratory



ICal: AIRFAL3-8-29-08

Results: 5175

ConCal: ST111408M1

EndCal: ST111408M2

Results: 5175

GC Column: db5

Amount: 1.000

NATO 1989 Tox: 6.63

WHO 1998 Tox: 6.40

	Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
	2,3,7,8-TCDD	*	* n	NotFnd	0.93	*		2.50	672	1.20	
	1,2,3,7,8-PeCDD	*	* n	NotFnd	1.48	*		2.50	487	2.23	
	1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.32	*		2.50	695	4.06	
	1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.25	*		2.50	695	4.29	
	1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.32	*		2.50	695	4.05	
	1,2,3,4,6,7,8-HpCDD	2.26e+04	1.12 y	44:18	1.16	5.65	J	2.50	-	*	
	OCDD	4.72e+04	0.89 y	49:52	1.24	17.5	J	2.50	-	*	
	2,3,7,8-TCDF	8.81e+04	0.69 y	26:48	1.00	5.20	J	2.50	-	*	
	1,2,3,7,8-PeCDF	6.78e+04	1.35 y	31:38	0.81	6.23	J	2.50	-	*	
	2,3,4,7,8-PeCDF	3.03e+04	1.33 y	32:57	0.76	2.94	J	2.50	-	*	
	1,2,3,4,7,8-HxCDF	1.15e+05	1.24 y	37:19	1.02	14.6	J	2.50	-	*	
	1,2,3,6,7,8-HxCDF	7.24e+04	1.22 y	37:32	1.05	8.86	J	2.50	-	*	
	2,3,4,6,7,8-HxCDF	4.29e+04	1.23 y	38:28	0.93	5.89	J	2.50	-	*	
	1,2,3,7,8,9-HxCDF	2.84e+04	1.17 y	39:56	0.79	4.63	J	2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	2.09e+05	1.10 y	42:23	1.36	40.9	J	2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	8.36e+04	1.05 y	45:12	1.04	21.3	J	2.50	-	*	
	OCDF	8.01e+05	0.88 y	50:13	0.46	236		2.50	-	*	
	13C-2,3,7,8-TCDD	4.68e+07	0.74 y	27:31	1.44	3380					Rec
	13C-1,2,3,7,8-PeCDD	2.21e+07	1.75 y	33:20	0.84	2740					84.5
	13C-1,2,3,6,7,8-HxCDD	1.72e+07	1.28 y	38:51	0.97	3850					68.6
	13C-1,2,3,4,6,7,8-HpCDD	1.38e+07	1.10 y	44:16	0.94	3180					96.2
	13C-OCDD	1.74e+07	0.93 y	49:49	0.65	5840					79.5
	13C-2,3,7,8-TCDF	6.76e+07	0.83 y	26:46	1.36	3310					72.9
	13C-1,2,3,7,8-PeCDF	5.41e+07	1.64 y	31:36	1.23	2920					82.7
	13C-1,2,3,6,7,8-HxCDF	3.11e+07	0.54 y	37:30	1.61	4190					72.9
	13C-1,2,3,4,6,7,8-HpCDF	1.51e+07	0.41 y	42:23	1.02	3220					105
	13C-OCDF	5.87e+07	0.92 y	50:12	1.83	6960					80.6
	13C-1,2,3,7,8,9-HxCDF	3.65e+07	0.52 y	39:53	1.99	3990					87.0
	37Cl-2,3,7,8-TCDD	1.62e+07		27:32	0.33	4140					99.8
	13C-1,2,3,4,7,8-HxCDD	2.21e+07	1.30 y	38:41	1.32	3900					104
	13C-2,3,4,7,8-PeCDF	3.13e+07	1.66 y	32:56	0.81	2850					97.5
	13C-1,2,3,4,7,8-HxCDF	4.25e+07	0.52 y	37:19	1.38	3940					71.2
	13C-1,2,3,4,7,8,9-HpCDF	1.51e+07	0.42 y	45:12	0.81	4920					98.6
	13C-1,2,3,4-TCDD	3.84e+07	0.76 y	26:57	-	109					123
	13C-1,2,3,4-TCDF	6.03e+07	0.83 y	25:40	-	106					
	13C-1,2,3,7,8,9-HxCDD	1.84e+07	1.29 y	39:19	-	76.6					
	Total Tetra-Dioxins	5.53e+04		24:31	0.93	5.09	J	2.50	-	*	#Hom
	Total Penta-Dioxins	*		NotFnd	1.48	*		2.50	487	2.23	2
	Total Hexa-Dioxins	*		NotFnd	1.29	*		2.50	695	4.29	0
	Total Hepta-Dioxins	4.05e+04		42:56	1.16	10.1	J	2.50	-	*	0
	Total Tetra-Furans	1.07e+06		23:09	1.00	63.4		2.50	-	*	2
1st Fn.	Tot Penta-Furans	8.66e+04		28:35	0.78	8.17		2.50	-	*	13
	Total Penta-Furans	5.39e+05		30:08	0.78	50.8		2.50	-	*	1
	Total Hexa-Furans	5.24e+05		35:23	0.95	69.8		2.50	-	*	10
	Total Hepta-Furans	4.27e+05		42:23	1.20	91.9		2.50	-	*	10
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Analyst:

Date:

11/17/08

Totals class: Total Tetra-Dioxins

Entry #: 37

Run: 13

File: 14NOV08M

S: 7 I: 1 F: 1

Acquired: 14-NOV-08 21:45:08

Total Concentration: 5.09

Unnamed Concentration: 5.086

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
24:31	1.34e+04	1.91e+04 0.70 y	3.25e+04	2.99	
24:47	1.01e+04	1.27e+04 0.79 y	2.28e+04	2.10	

Totals class: Total Hepta-Dioxins

Entry #: 40

Run: 13

File: 14NOV08M

S: 7 I: 1 F: 4

Acquired: 14-NOV-08 21:45:08

Total Concentration: 10.1

Unnamed Concentration: 4.468

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:56	9.01e+03	8.88e+03	1.01 y	1.79e+04	4.47	
44:18	1.19e+04	1.07e+04	1.12 y	2.26e+04	5.65	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 41

Run: 13

File: 14NOV08M

S: 7 I: 1 F: 1

Acquired: 14-NOV-08 21:45:08

Total Concentration: 63.4

Unnamed Concentration: 58.185

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:09	1.08e+04	1.45e+04	0.74 y	2.53e+04	1.49	
23:32	1.81e+04	2.69e+04	0.67 y	4.50e+04	2.65	
23:57	1.41e+04	2.03e+04	0.70 y	3.44e+04	2.03	
24:19	7.72e+04	1.17e+05	0.66 y	1.94e+05	11.4	
24:33	6.40e+04	8.25e+04	0.78 y	1.46e+05	8.64	
24:52	2.09e+04	2.76e+04	0.76 y	4.85e+04	2.86	
25:05	2.02e+04	2.52e+04	0.80 y	4.55e+04	2.68	
25:24	3.00e+04	4.23e+04	0.71 y	7.24e+04	4.27	
25:34	1.76e+04	2.43e+04	0.73 y	4.19e+04	2.47	
25:41	6.88e+04	9.49e+04	0.73 y	1.64e+05	9.66	
26:03	4.15e+04	6.08e+04	0.68 y	1.02e+05	6.03	
26:42	2.65e+04	4.04e+04	0.66 y	6.69e+04	3.94	
26:48	3.59e+04	5.22e+04	0.69 y	8.81e+04	5.20	2,3,7,8-TCDF

Totals class: 1st Fn. Tot Penta-Furans Entry #: 42

Run: 13 File: 14NOV08M S: 7 I: 1 F: 1
Acquired: 14-NOV-08 21:45:08

Total Concentration: 8.17 Unnamed Concentration: 8.171

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
28:35	5.03e+04	3.63e+04 1.39 y	8.66e+04	8.17	

Totals class: Total Penta-Furans

Entry #: 43

Run: 13

File: 14NOV08M

S: 7 I: 1 F: 2

Acquired: 14-NOV-08 21:45:08

Total Concentration: 50.8

Unnamed Concentration: 41.610

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:08	3.92e+04	2.68e+04	1.46 y	6.60e+04	6.23	
30:21	1.00e+05	7.32e+04	1.37 y	1.73e+05	16.4	
30:52	1.22e+04	8.91e+03	1.36 y	2.11e+04	1.99	
31:03	2.45e+04	1.77e+04	1.38 y	4.22e+04	3.99	
31:11	2.03e+04	1.33e+04	1.53 y	3.36e+04	3.17	
31:23	2.16e+04	1.61e+04	1.35 y	3.77e+04	3.55	
31:38	3.90e+04	2.88e+04	1.35 y	6.78e+04	6.23	1,2,3,7,8-PeCDF
31:58	2.69e+04	1.94e+04	1.39 y	4.64e+04	4.38	
32:57	1.73e+04	1.30e+04	1.33 y	3.03e+04	2.94	2,3,4,7,8-PeCDF
33:00	1.27e+04	7.90e+03	1.61 y	2.06e+04	1.94	

Totals class: Total Hexa-Furans

Entry #: 44

Run: 13

File: 14NOV08M

S: 7 I: 1 F: 3

Acquired: 14-NOV-08 21:45:08

Total Concentration: 69.8

Unnamed Concentration: 35.891

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:23	3.39e+04	2.99e+04	1.13 y	6.38e+04	8.65	
35:40	6.47e+04	4.65e+04	1.39 y	1.11e+05	15.1	
36:14	1.41e+04	1.01e+04	1.40 y	2.42e+04	3.28	
36:32	1.21e+04	8.94e+03	1.35 y	2.10e+04	2.85	
37:10	1.08e+04	9.22e+03	1.17 y	2.00e+04	2.71	
37:19	6.37e+04	5.15e+04	1.24 y	1.15e+05	14.6	1,2,3,4,7,8-HxCDF
37:32	3.97e+04	3.27e+04	1.22 y	7.24e+04	8.86	1,2,3,6,7,8-HxCDF
37:47	1.38e+04	1.07e+04	1.29 y	2.45e+04	3.33	
38:28	2.36e+04	1.93e+04	1.23 y	4.29e+04	5.89	2,3,4,6,7,8-HxCDF
39:56	1.53e+04	1.31e+04	1.17 y	2.84e+04	4.63	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 45

Run: 13

File: 14NOV08M

S: 7 I: 1 F: 4

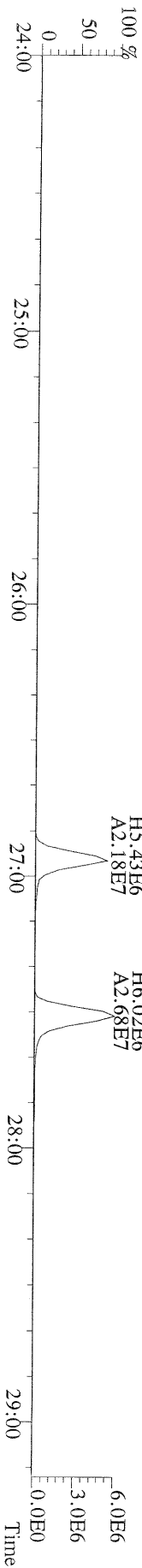
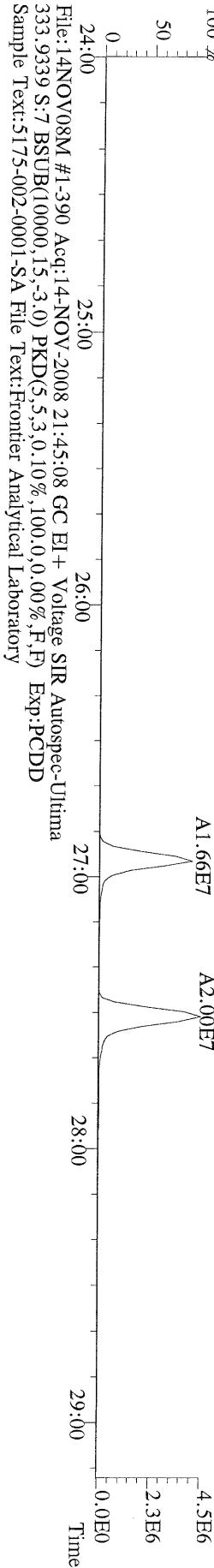
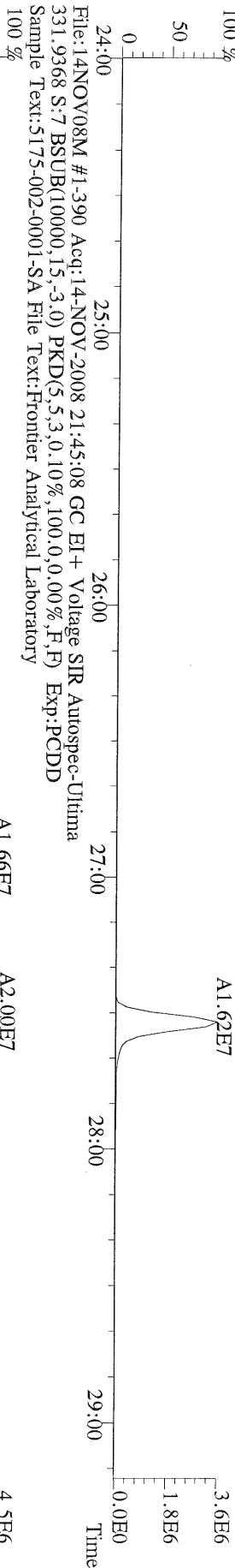
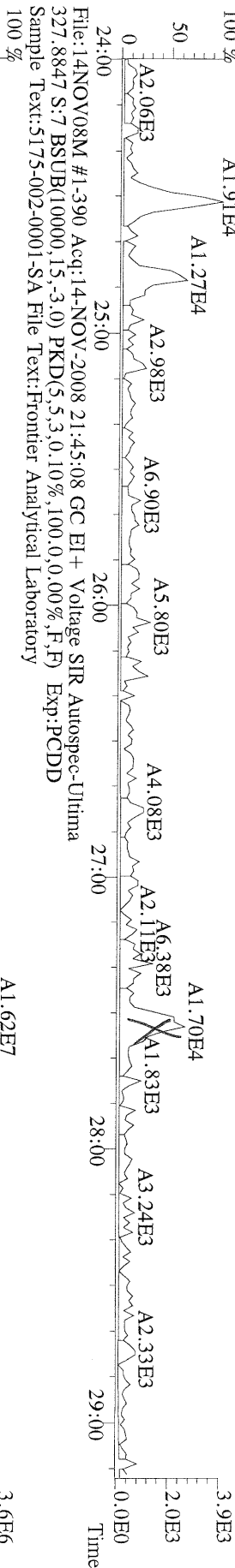
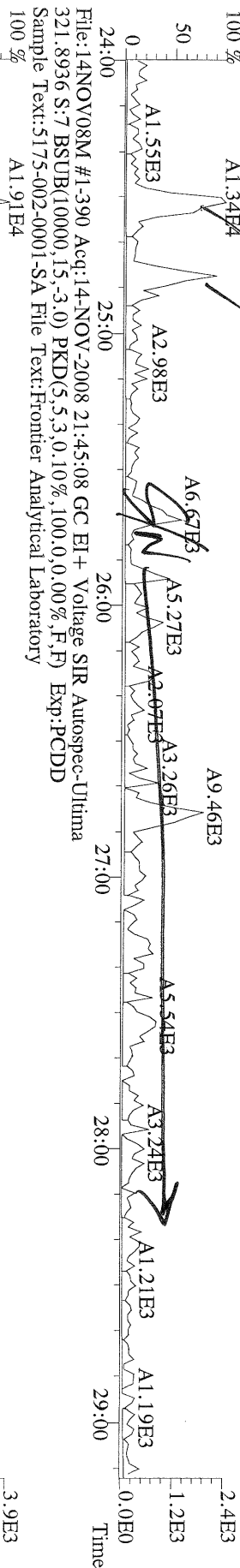
Acquired: 14-NOV-08 21:45:08

Total Concentration: 91.9

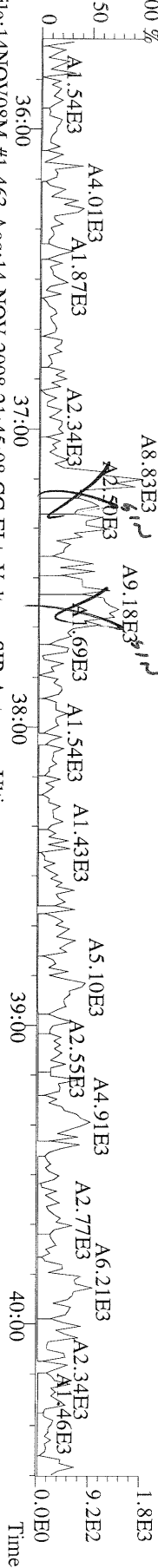
Unnamed Concentration: 29.638

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:23	1.10e+05	9.97e+04	1.10 y	2.09e+05	40.9	1,2,3,4,6,7,8-HpCDF
42:56	2.39e+04	2.44e+04	0.98 y	4.83e+04	10.7	
43:14	4.40e+04	4.15e+04	1.06 y	8.56e+04	18.9	
45:12	4.28e+04	4.08e+04	1.05 y	8.36e+04	21.3	1,2,3,4,7,8,9-HpCDF

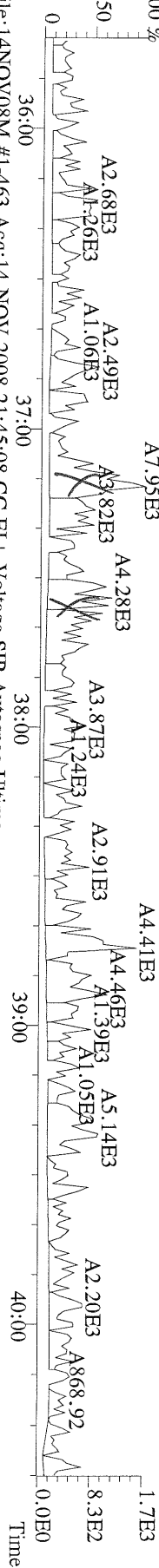
File:14NOV08M #1-390 Acq:14-NOV-2008 21:45:08 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



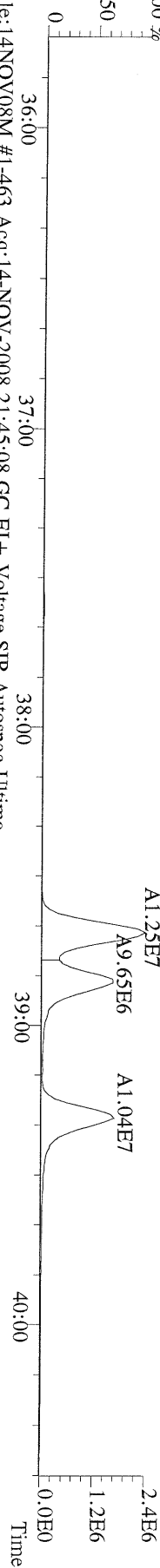
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389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



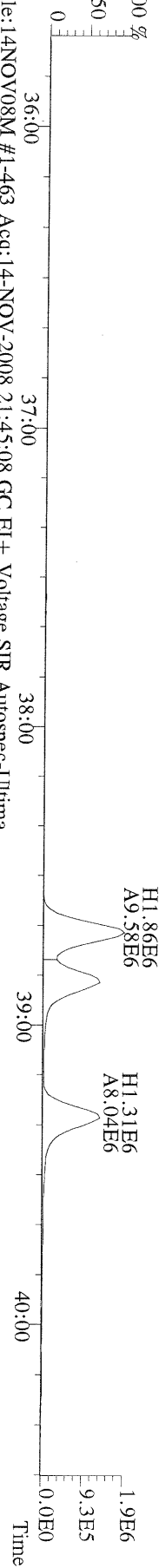
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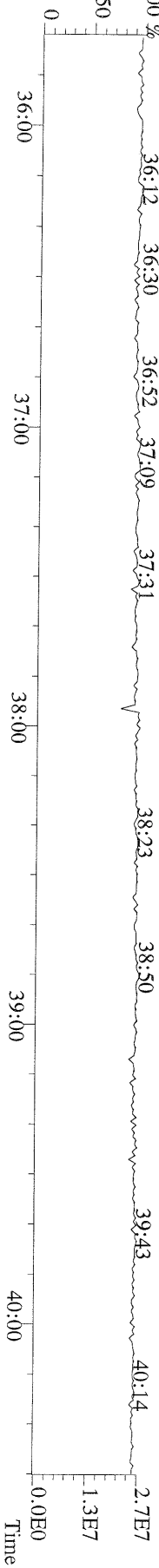
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401.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



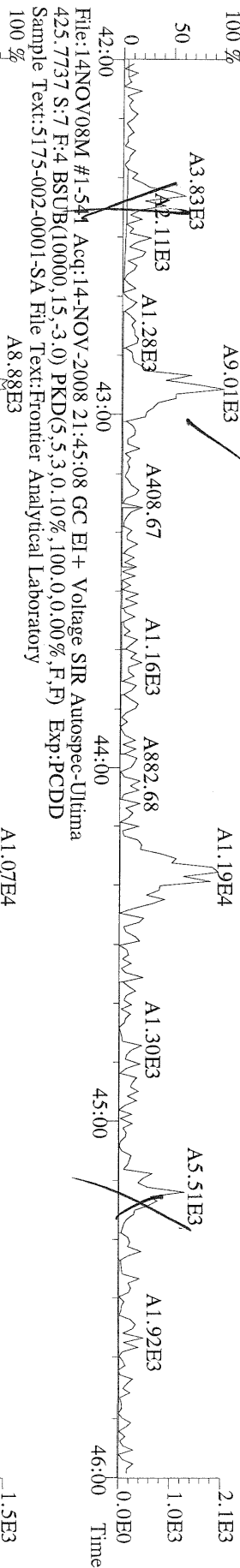
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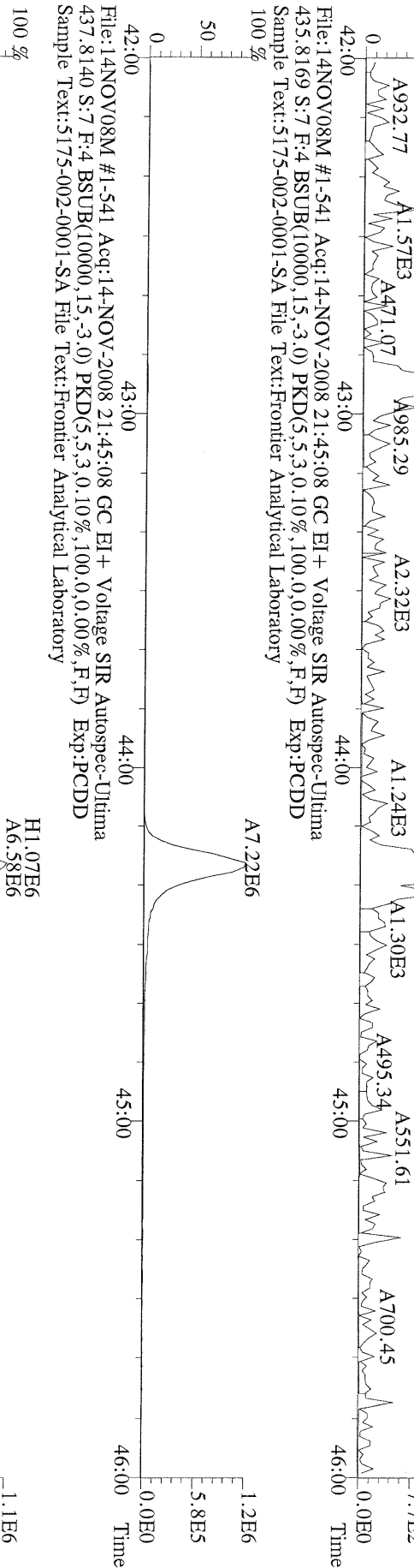
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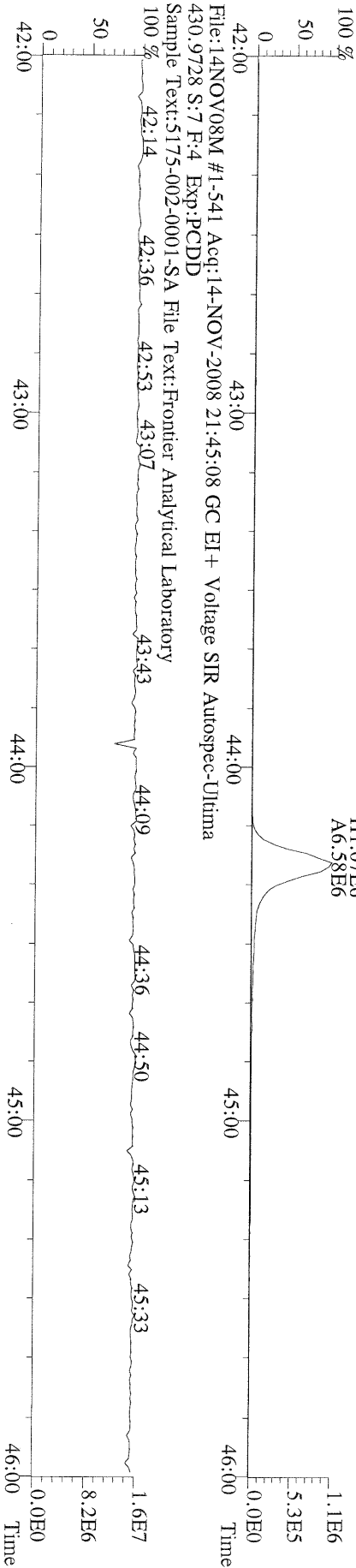
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423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



File:14NOV08M #1-541 Acq:14-NOV-2008 21:45:08 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory

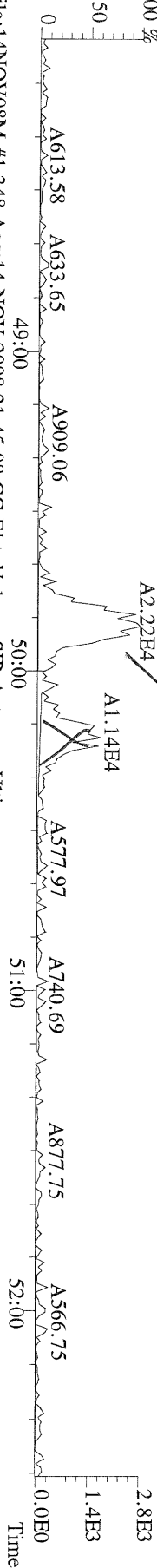


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437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory

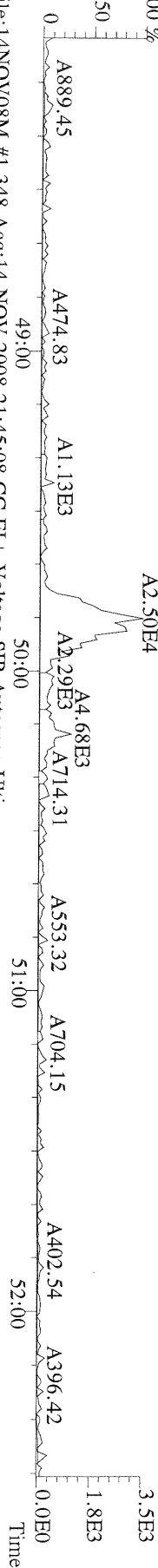


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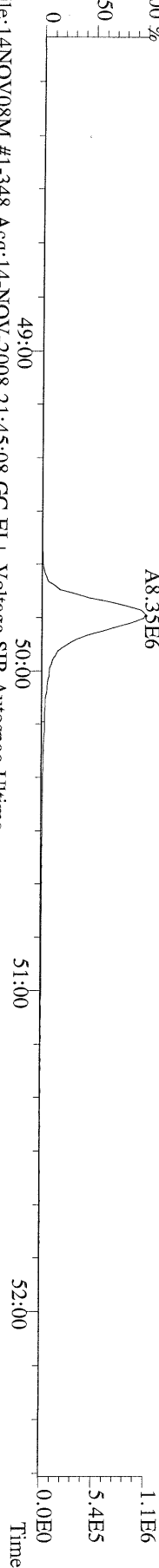
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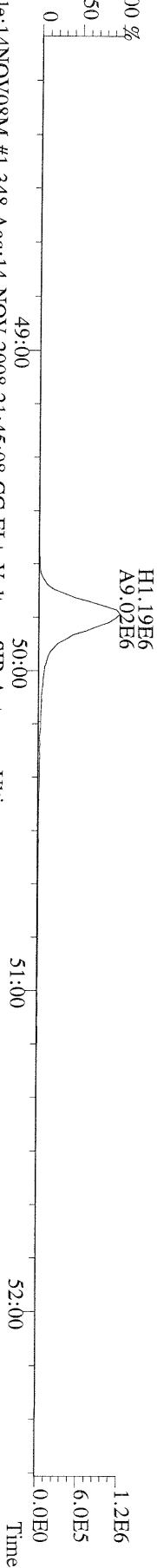
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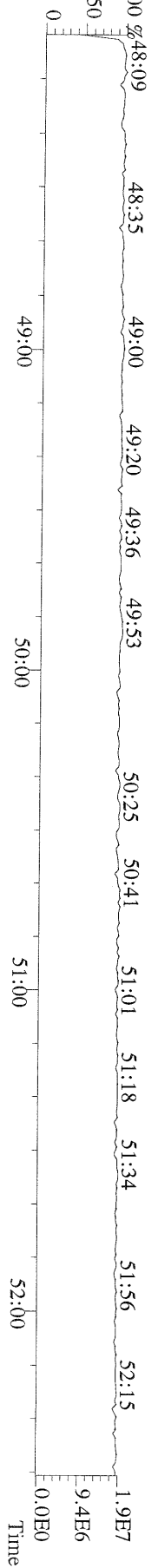
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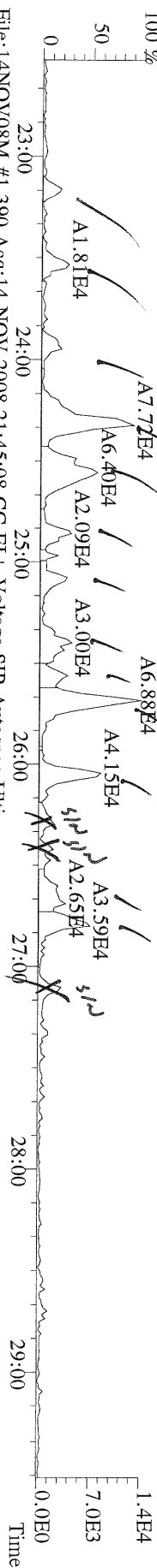
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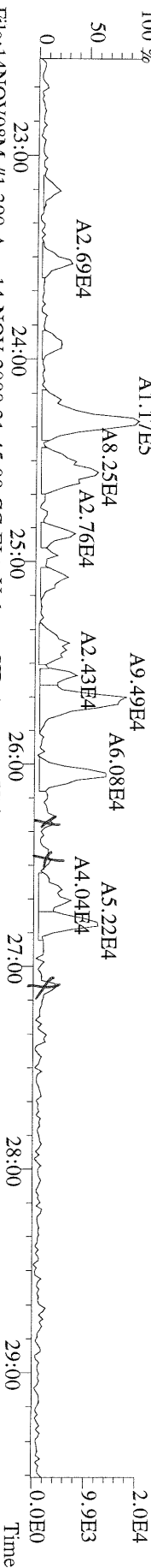
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Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



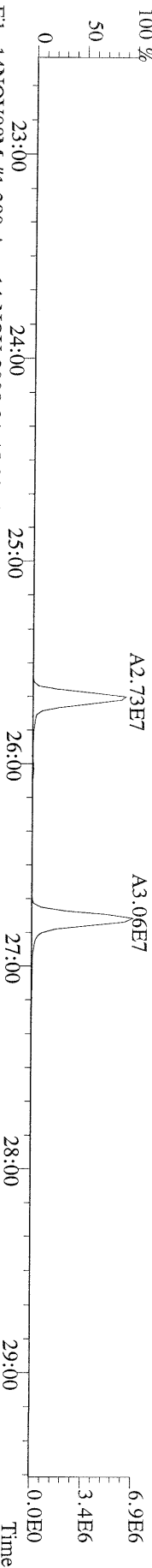
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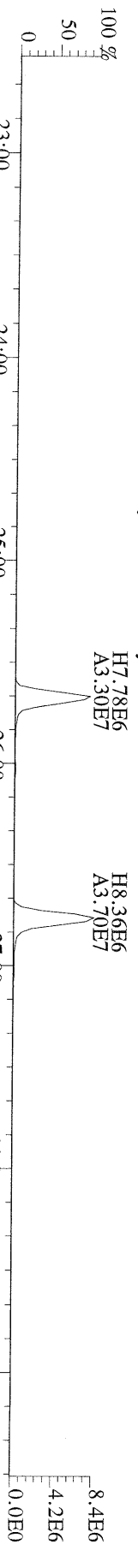
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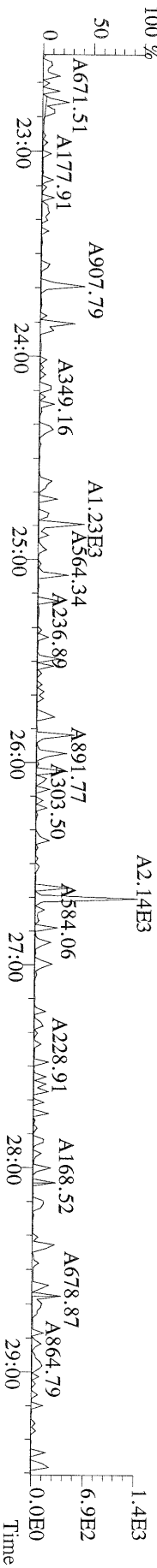
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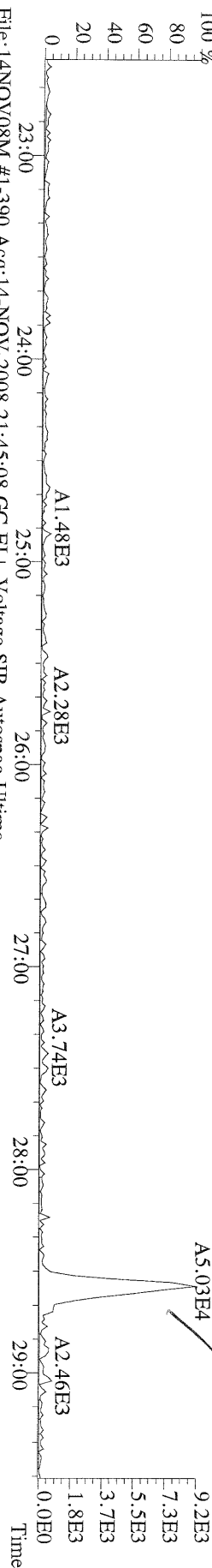
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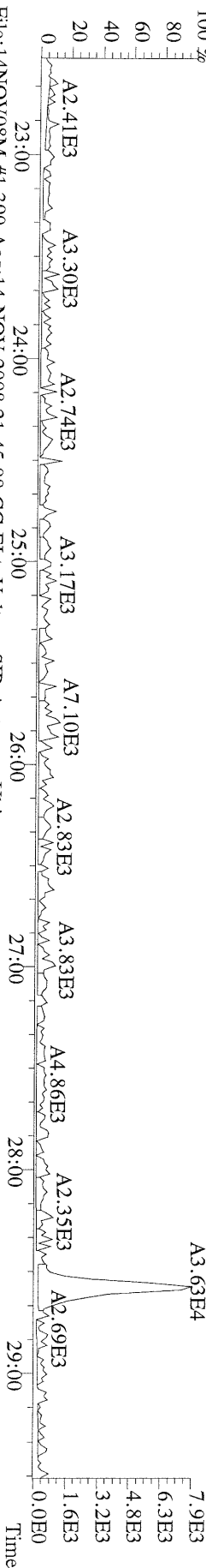
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Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



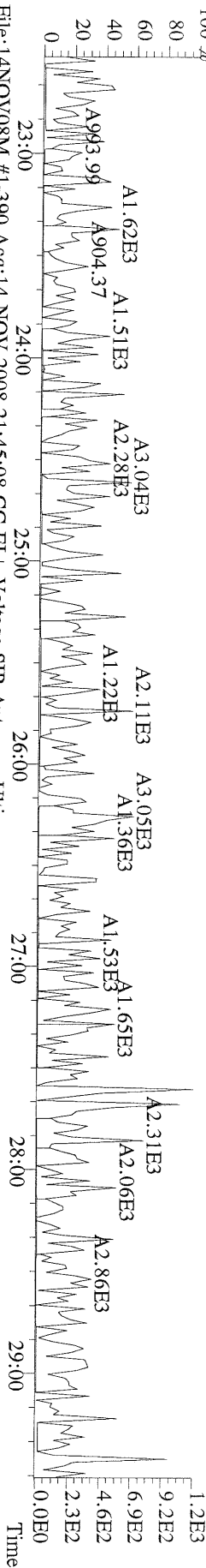
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Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



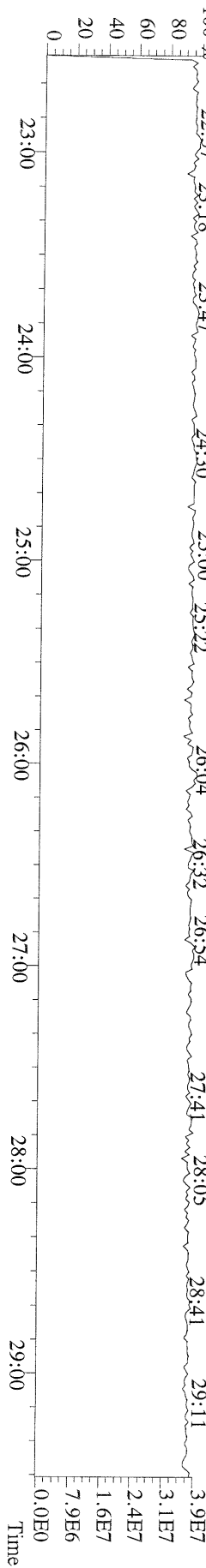
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Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



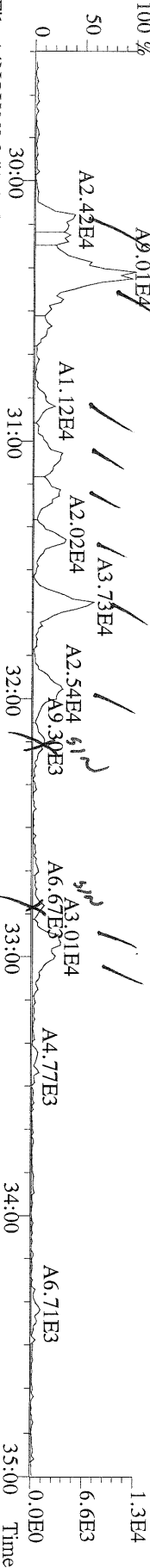
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Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



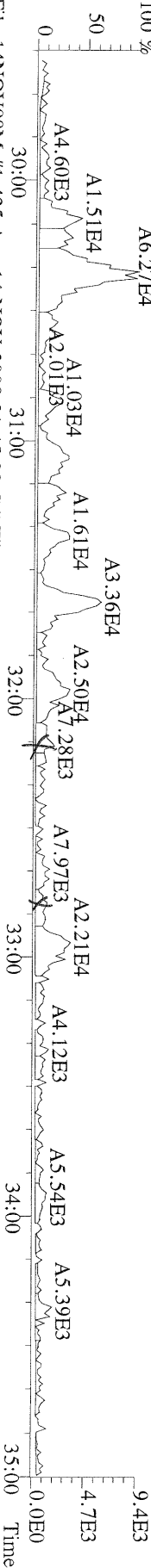
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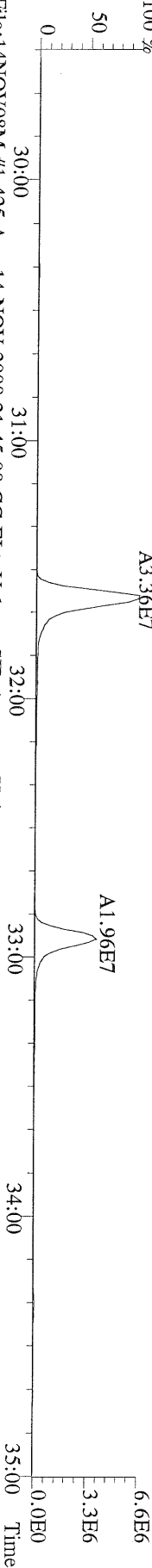
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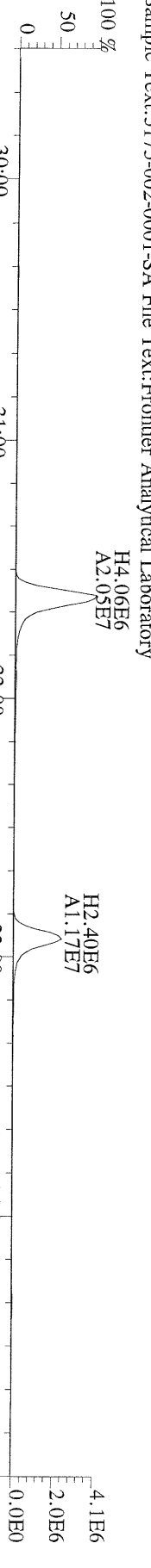
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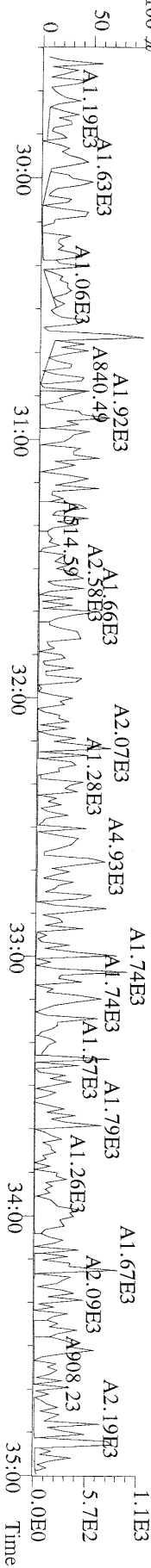
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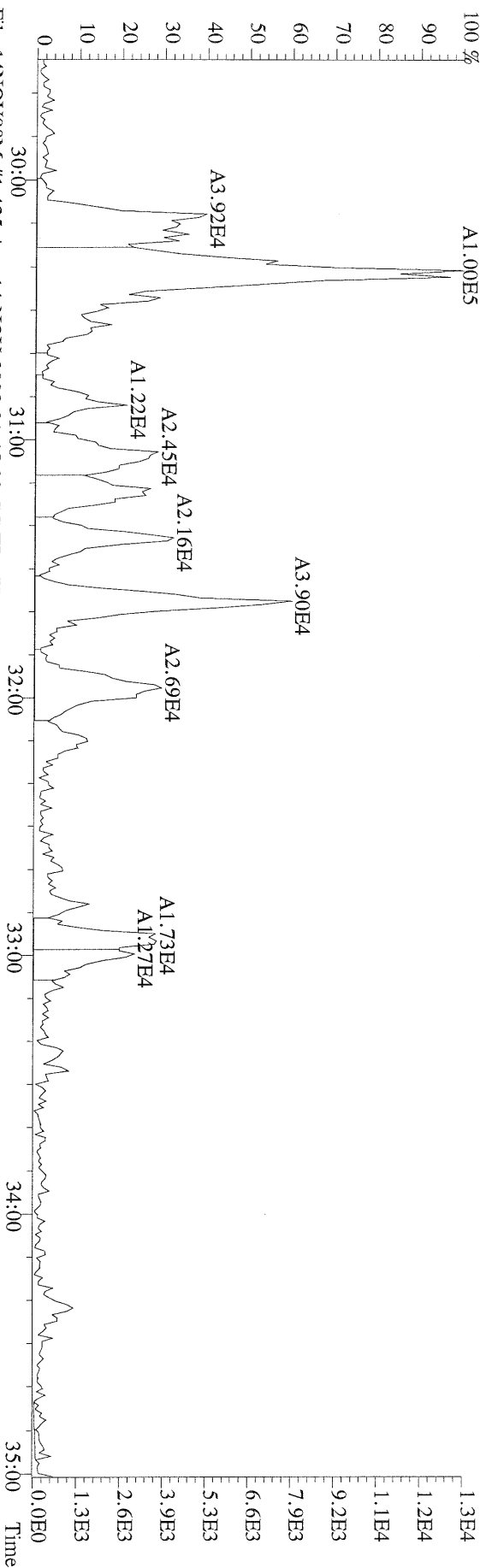
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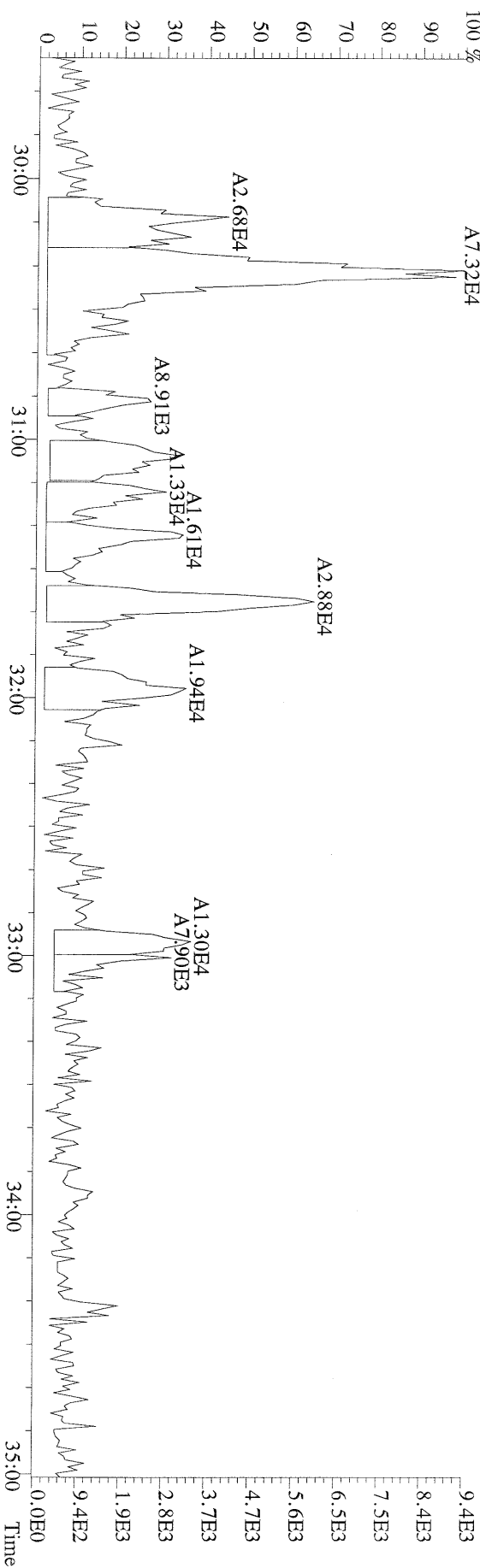
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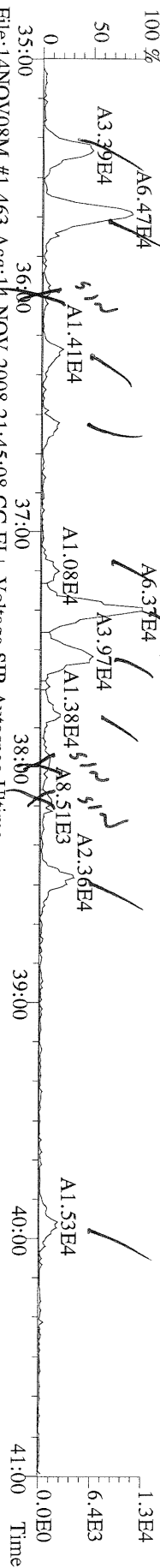
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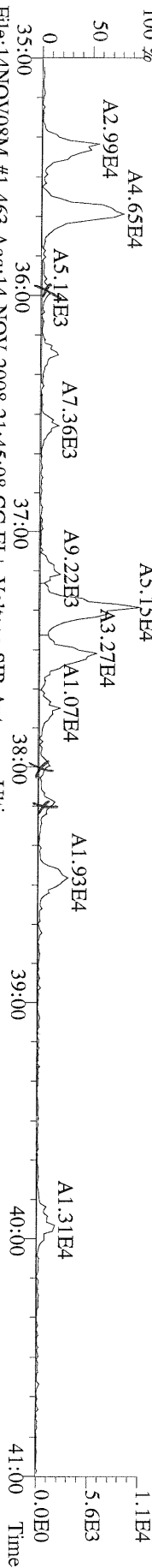
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Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



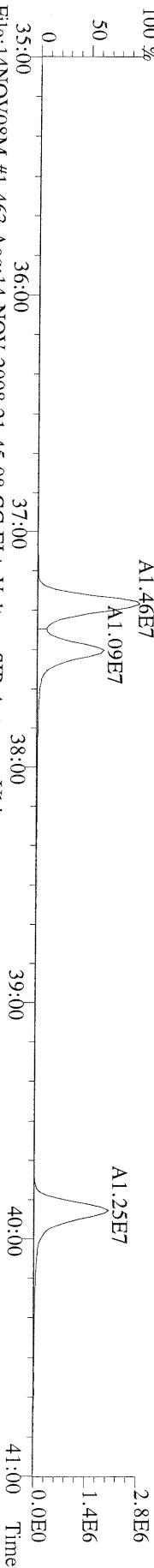
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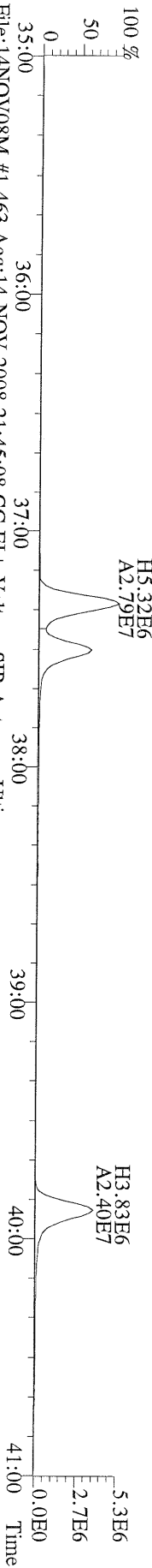
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Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



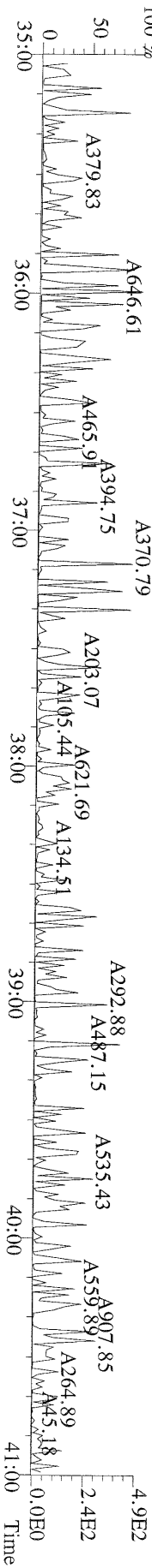
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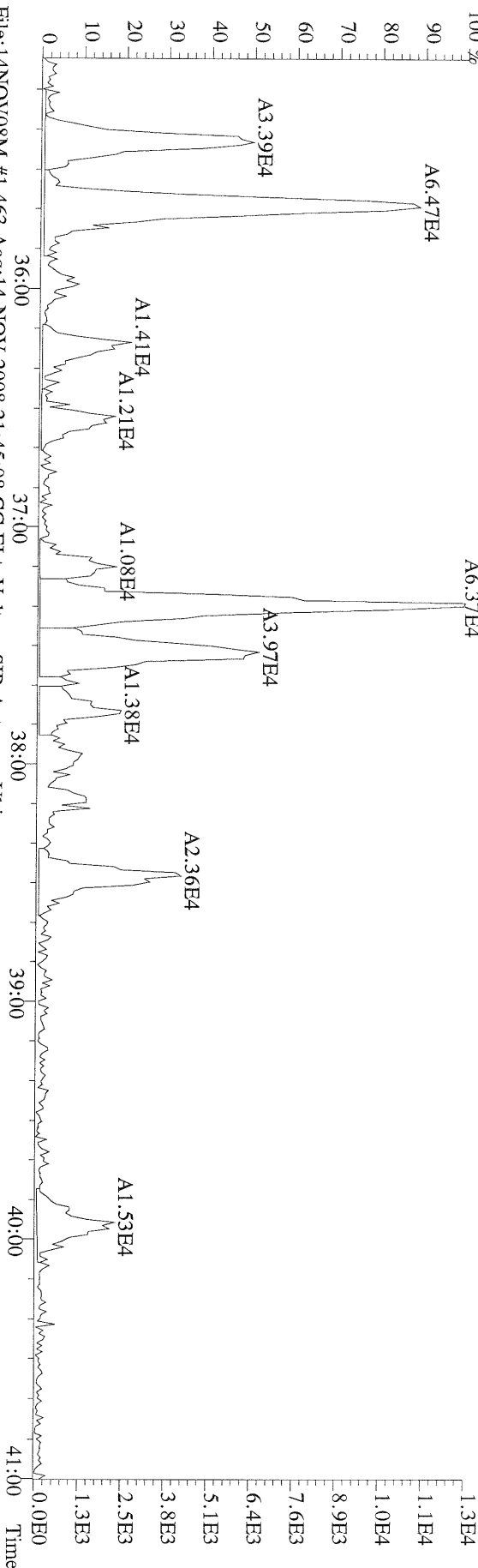
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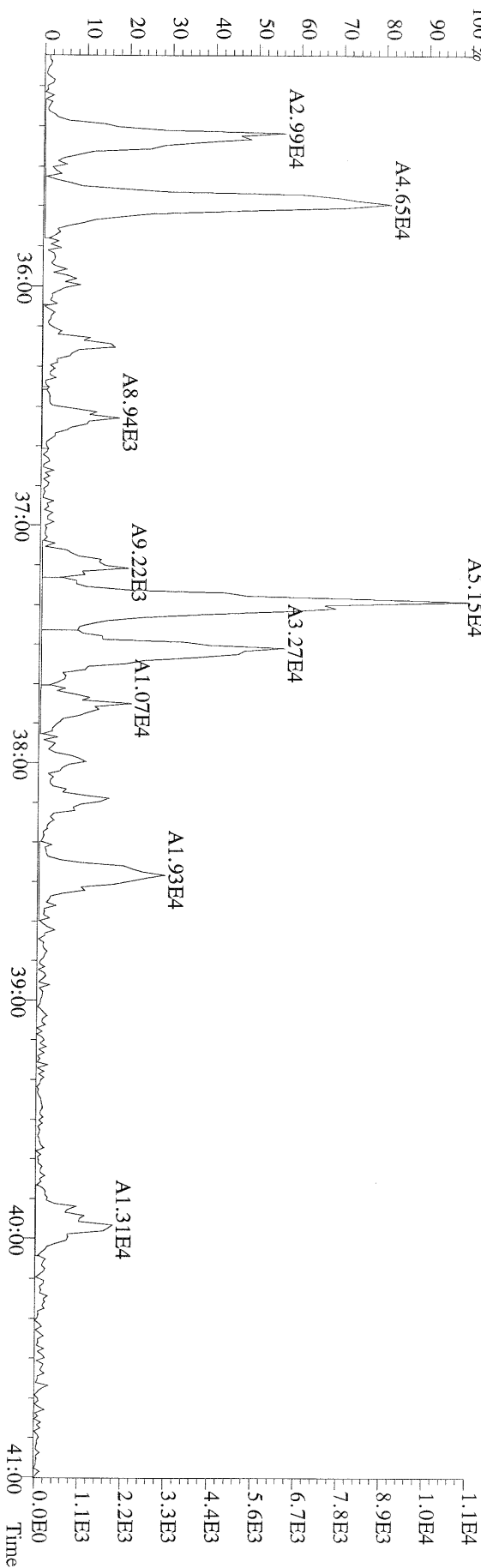
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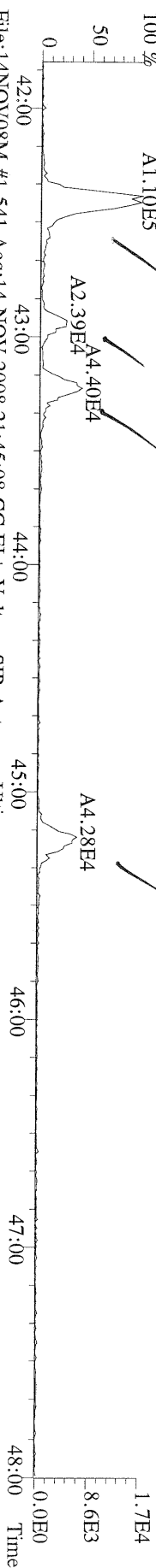
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373.8207 S: 7 F: 3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp: PCDD
Sample Text: 5175-002-0001-SA File Text: Frontier Analytical Laboratory



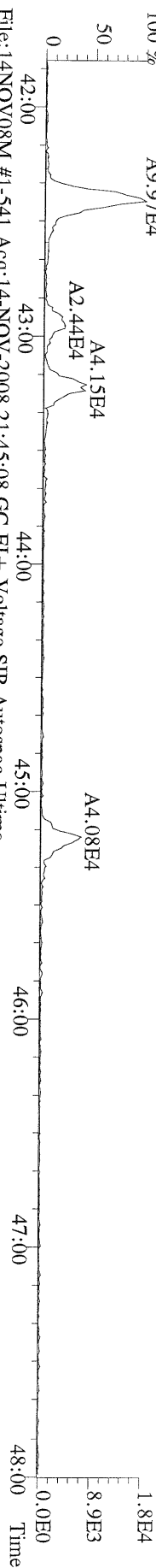
File: 14NOV08M #1-463 Acq: 14-NOV-2008 21:45:08 GC EI + Voltage SIR Autospec-Utima
373.8178 S: 7 F: 3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp: PCDD
Sample Text: 5175-002-0001-SA File Text: Frontier Analytical Laboratory



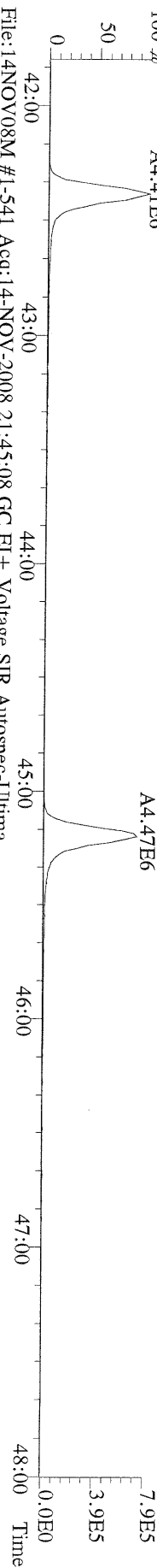
File:14NOV08M #1-541 Acq:14-NOV-2008 21:45:08 GC EI + Voltage SIR Autospec-Ultima
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



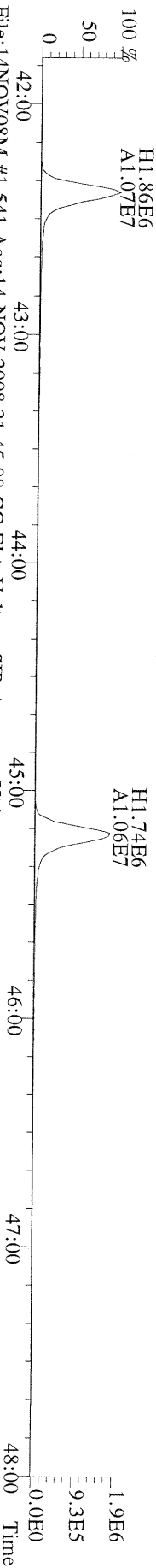
File:14NOV08M #1-541 Acq:14-NOV-2008 21:45:08 GC EI + Voltage SIR Autospec-Ultima
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



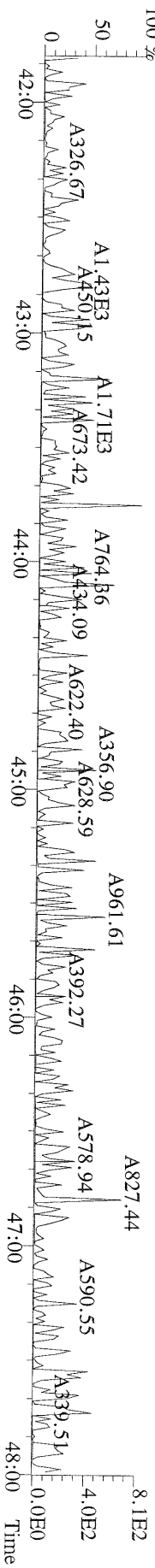
File:14NOV08M #1-541 Acq:14-NOV-2008 21:45:08 GC EI + Voltage SIR Autospec-Ultima
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



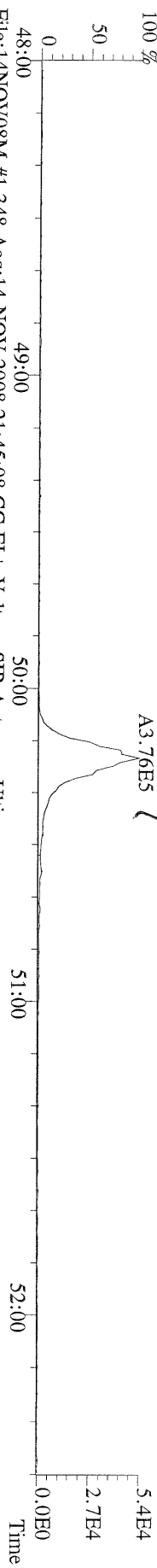
File:14NOV08M #1-541 Acq:14-NOV-2008 21:45:08 GC EI + Voltage SIR Autospec-Ultima
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



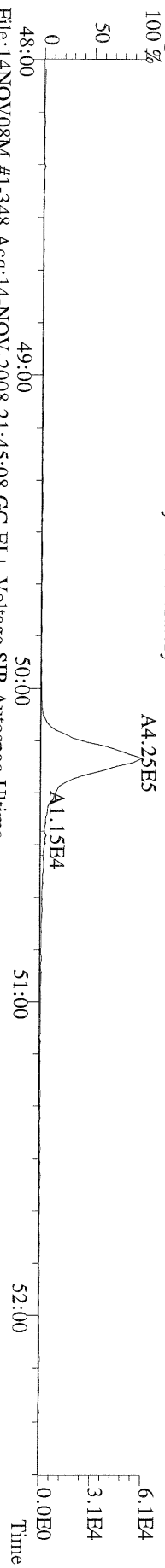
File:14NOV08M #1-541 Acq:14-NOV-2008 21:45:08 GC EI + Voltage SIR Autospec-Ultima
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



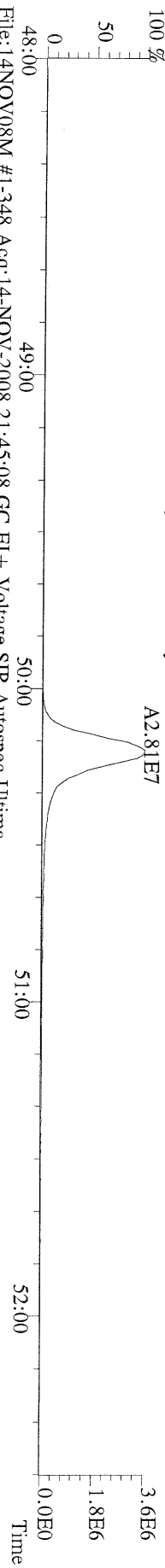
File:14NOV08M #1-348 Acq:14-NOV-2008 21:45:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



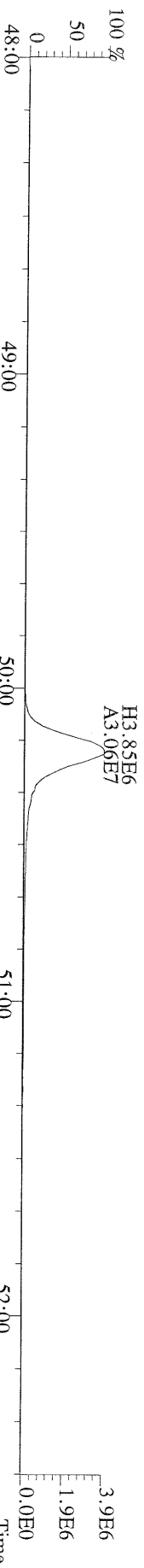
File:14NOV08M #1-348 Acq:14-NOV-2008 21:45:08 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



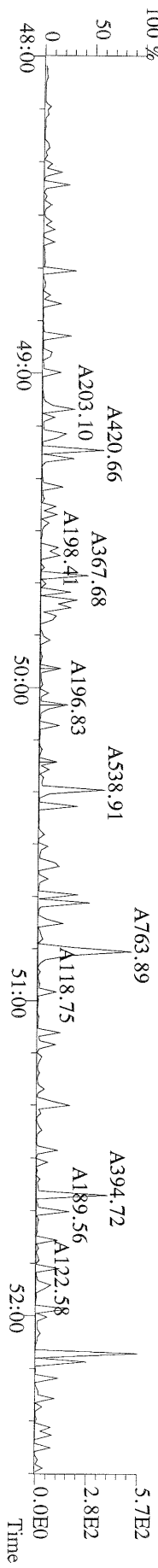
File:14NOV08M #1-348 Acq:14-NOV-2008 21:45:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



File:14NOV08M #1-348 Acq:14-NOV-2008 21:45:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory



File:14NOV08M #1-348 Acq:14-NOV-2008 21:45:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5175-002-0001-SA File Text:Frontier Analytical Laboratory




Frontier Analytical Laboratory

Data Filename: 28AUG08M

Analyte: AIRFAL3-8-29-08

Cal: AIRFAL3-8-29-08

	Name	RRF	S. D.	%RSD	S11 RRF#1	S12 RRF#2	S13 RRF#3	S14 RRF#4	S15 RRF#5	S16 RRF#6
	2,3,7,8-TCDD	0.93	0.116	12.5 %	1.08	1.01	0.95	0.95	0.79	0.79
	1,2,3,7,8-PeCDD	1.48	0.149	10.1 %	1.72	1.56	1.48	1.44	1.33	1.33
	1,2,3,4,7,8-HxCDD	1.32	0.110	8.39 %	1.48	1.36	1.36	1.30	1.18	1.22
	1,2,3,6,7,8-HxCDD	1.25	0.144	11.5 %	1.47	1.33	1.27	1.22	1.10	1.08
	1,2,3,7,8,9-HxCDD	1.32	0.134	10.1 %	1.50	1.43	1.34	1.30	1.17	1.18
	1,2,3,4,6,7,8-HpCDD	1.16	0.111	9.57 %	1.32	1.23	1.18	1.16	1.03	1.04
	OCDD	1.24	0.109	8.82 %	1.39	1.31	1.26	1.24	1.11	1.13
	2,3,7,8-TCDF	1.00	0.106	10.5 %	1.12	1.08	1.04	1.02	0.88	0.87
	1,2,3,7,8-PeCDF	0.81	0.0548	6.80 %	0.90	0.83	0.80	0.79	0.74	0.77
	2,3,4,7,8-PeCDF	0.76	0.0580	7.62 %	0.87	0.78	0.76	0.74	0.70	0.72
	1,2,3,4,7,8-HxCDF	1.02	0.0890	8.76 %	1.16	1.04	1.04	1.01	0.92	0.92
	1,2,3,6,7,8-HxCDF	1.05	0.0899	8.56 %	1.19	1.10	1.06	1.03	0.95	0.97
	2,3,4,6,7,8-HxCDF	0.93	0.0768	8.22 %	1.07	0.96	0.93	0.92	0.85	0.88
	1,2,3,7,8,9-HxCDF	0.79	0.0723	9.17 %	0.91	0.83	0.76	0.77	0.71	0.74
	1,2,3,4,6,7,8-HpCDF	1.36	0.104	7.65 %	1.52	1.40	1.39	1.35	1.24	1.25
	1,2,3,4,7,8,9-HpCDF	1.04	0.0634	6.10 %	1.14	1.03	1.03	1.08	0.96	0.99
	OCDF	0.46	0.0345	7.47 %	0.52	0.48	0.46	0.46	0.43	0.43
	13C-2,3,7,8-TCDD	1.44	0.0534	3.70 %	1.39	1.38	1.47	1.46	1.46	1.52
	13C-1,2,3,7,8-PeCDD	0.84	0.0547	6.50 %	0.78	0.79	0.85	0.84	0.85	0.94
	13C-1,2,3,6,7,8-HxCDD	0.97	0.0143	1.48 %	0.96	0.97	1.00	0.97	0.97	0.96
	13C-1,2,3,4,6,7,8-HpCDD	0.94	0.0258	2.73 %	0.92	0.96	0.98	0.95	0.94	0.91
	13C-OCDD	0.65	0.0168	2.60 %	0.64	0.66	0.66	0.63	0.63	0.67
	13C-2,3,7,8-TCDF	1.36	0.0193	1.42 %	1.34	1.38	1.35	1.34	1.37	1.37
	13C-1,2,3,7,8-PeCDF	1.23	0.0499	4.06 %	1.16	1.26	1.21	1.20	1.26	1.30
	13C-1,2,3,6,7,8-HxCDF	1.61	0.0509	3.15 %	1.53	1.60	1.68	1.61	1.66	1.61
	13C-1,2,3,4,6,7,8-HpCDF	1.02	0.0223	2.19 %	1.00	1.03	1.05	0.99	1.01	1.01
	13C-OCDF	1.83	0.0572	3.12 %	1.82	1.85	1.86	1.78	1.76	1.92
	13C-1,2,3,7,8,9-HxCDF	1.99	0.0229	1.15 %	1.96	1.98	1.98	1.98	2.02	2.01
	37Cl-2,3,7,8-TCDD	0.33	0.0101	3.02 %	0.34	0.35	0.32	0.34	0.34	0.32
	13C-1,2,3,4,7,8-HxCDD	1.32	0.0286	2.17 %	1.34	1.31	1.27	1.32	1.33	1.34
	13C-2,3,4,7,8-PeCDF	0.81	0.0416	5.12 %	0.88	0.82	0.81	0.83	0.77	0.77
	13C-1,2,3,4,7,8-HxCDF	1.38	0.0413	2.98 %	1.45	1.37	1.35	1.42	1.35	1.36
	13C-1,2,3,4,7,8,9-HpCDF	0.81	0.0293	3.59 %	0.85	0.81	0.78	0.85	0.80	0.80
	13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
	13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
	13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
	Total Tetra-Dioxins	0.93	0.116	12.5 %	1.08	1.01	0.95	0.95	0.79	0.79
	Total Penta-Dioxins	1.48	0.149	10.1 %	1.72	1.56	1.48	1.44	1.33	1.33
	Total Hexa-Dioxins	1.29	0.128	9.93 %	1.48	1.37	1.32	1.27	1.15	1.16
	Total Hepta-Dioxins	1.16	0.111	9.57 %	1.32	1.23	1.18	1.16	1.03	1.04
	Total Tetra-Furans	1.00	0.106	10.5 %	1.12	1.08	1.04	1.02	0.88	0.87
1st Fn.	Tot Penta-Furans	0.78	0.0563	7.19 %	0.89	0.80	0.78	0.77	0.72	0.75
	Total Penta-Furans	0.78	0.0563	7.19 %	0.89	0.80	0.78	0.77	0.72	0.75
	Total Hexa-Furans	0.95	0.0812	8.57 %	1.08	0.98	0.95	0.93	0.86	0.88
	Total Hepta-Furans	1.20	0.0814	6.79 %	1.33	1.21	1.21	1.22	1.10	1.12

Analyst: Date: 8/29/08

Run #1 Filename 28AUG08M
Client ID: ST082808M0

S: 11


Acquired: 28-AUG-08 23:01:49

Cal: AIRFAL3-8-29-08

Analyte: AIR

FAL ID: AIR CS0 (061228F)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	0.25	1.83e+05	0.70 y	27:27	-	1.08	y
2	Unk	1,2,3,7,8-PeCDD	1.25	8.25e+05	1.60 y	33:15	-	1.72	y
3	Unk	1,2,3,4,7,8-HxCDD	1.25	5.60e+05	1.21 y	38:35	-	1.48	y
4	Unk	1,2,3,6,7,8-HxCDD	1.25	5.53e+05	1.26 y	38:45	-	1.47	y
5	Unk	1,2,3,7,8,9-HxCDD	1.25	5.68e+05	1.23 y	39:12	-	1.50	y
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	4.77e+05	1.00 y	44:09	-	1.32	y
7	Unk	OCDD	2.50	7.00e+05	0.88 y	49:39	-	1.39	y
8	Unk	2,3,7,8-TCDF	0.25	2.96e+05	0.69 y	26:42	-	1.12	y
9	Unk	1,2,3,7,8-PeCDF	1.25	1.03e+06	1.51 y	31:31	-	0.903	y
10	Unk	2,3,4,7,8-PeCDF	1.25	9.94e+05	1.49 y	32:50	-	0.867	y
11	Unk	1,2,3,4,7,8-HxCDF	1.25	7.01e+05	1.18 y	37:11	-	1.16	y
12	Unk	1,2,3,6,7,8-HxCDF	1.25	7.22e+05	1.21 y	37:24	-	1.19	y
13	Unk	2,3,4,6,7,8-HxCDF	1.25	6.47e+05	1.27 y	38:20	-	1.07	y
14	Unk	1,2,3,7,8,9-HxCDF	1.25	5.52e+05	1.21 y	39:45	-	0.913	y
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	5.98e+05	1.04 y	42:15	-	1.52	y
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	4.49e+05	1.07 y	45:03	-	1.14	y
17	Unk	OCDF	2.50	7.50e+05	0.86 y	50:01	-	0.521	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	6.81e+07	0.73 y	27:25	-	1.39	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.83e+07	1.59 y	33:14	-	0.782	y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.02e+07	1.28 y	38:44	-	0.957	y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.90e+07	1.08 y	44:07	-	0.920	y
22	IS	13C-OCDD	200.00	4.02e+07	0.90 y	49:37	-	0.638	y
23	IS	13C-2,3,7,8-TCDF	100.00	1.06e+08	0.83 y	26:40	-	1.34	y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	9.17e+07	1.63 y	31:29	-	1.16	y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.84e+07	0.51 y	37:23	-	1.53	y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.15e+07	0.44 y	42:14	-	1.000	y
27	IS	13C-OCDF	200.00	1.15e+08	0.93 y	49:60	-	1.82	y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	6.18e+07	0.51 y	39:44	-	1.96	y
29	PSS	37Cl-2,3,7,8-TCDD	40.00	9.15e+06		27:26	-	0.336	y
30	PSS	13C-1,2,3,4,7,8-HxCDD	40.00	1.62e+07	1.26 y	38:34	-	1.34	y
31	PSS	13C-2,3,4,7,8-PeCDF	40.00	3.23e+07	1.59 y	32:48	-	0.880	y
32	PSS	13C-1,2,3,4,7,8-HxCDF	40.00	2.80e+07	0.53 y	37:10	-	1.45	y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	40.00	1.07e+07	0.46 y	45:01	-	0.846	y
34	RS	13C-1,2,3,4-TCDD	100.00	4.90e+07	0.76 y	26:51	4.90e+05	-	n
35	RS	13C-1,2,3,4-TCDF	100.00	7.91e+07	0.83 y	25:36	7.91e+05	-	n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	3.15e+07	1.27 y	39:10	3.15e+05	-	n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08	y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.72	y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.48	y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.32	y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.12	y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.885	y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.885	y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.08	y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.33	y

Analyst: 

Date: 8/29/08

Run #2 Filename 28AUG08M S: 12 Acquired: 28-AUG-08 23:57:16 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M1 Analyte: AIR FAL ID: AIR CS1 (061228G)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	2.59e+05	0.76 y	27:27	-	1.01 y
2	Unk	1,2,3,7,8-PeCDD	2.50	1.15e+06	1.61 y	33:15	-	1.56 y
3	Unk	1,2,3,4,7,8-HxCDD	2.50	7.90e+05	1.22 y	38:35	-	1.36 y
4	Unk	1,2,3,6,7,8-HxCDD	2.50	7.71e+05	1.29 y	38:45	-	1.33 y
5	Unk	1,2,3,7,8,9-HxCDD	2.50	8.29e+05	1.27 y	39:11	-	1.43 y
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	7.09e+05	0.94 y	44:09	-	1.23 y
7	Unk	OCDD	5.00	1.04e+06	0.93 y	49:38	-	1.31 y
8	Unk	2,3,7,8-TCDF	0.50	4.19e+05	0.72 y	26:42	-	1.08 y
9	Unk	1,2,3,7,8-PeCDF	2.50	1.47e+06	1.49 y	31:31	-	0.827 y
10	Unk	2,3,4,7,8-PeCDF	2.50	1.38e+06	1.53 y	32:50	-	0.778 y
11	Unk	1,2,3,4,7,8-HxCDF	2.50	1.00e+06	1.22 y	37:11	-	1.04 y
12	Unk	1,2,3,6,7,8-HxCDF	2.50	1.06e+06	1.22 y	37:24	-	1.10 y
13	Unk	2,3,4,6,7,8-HxCDF	2.50	9.29e+05	1.24 y	38:20	-	0.964 y
14	Unk	1,2,3,7,8,9-HxCDF	2.50	7.99e+05	1.24 y	39:46	-	0.829 y
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	8.68e+05	1.04 y	42:15	-	1.40 y
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	6.41e+05	1.03 y	45:03	-	1.03 y
17	Unk	OCDF	5.00	1.06e+06	0.87 y	50:00	-	0.475 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	5.15e+07	0.75 y	27:26	-	1.38 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.96e+07	1.59 y	33:13	-	0.792 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.33e+07	1.24 y	38:44	-	0.967 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.30e+07	1.10 y	44:07	-	0.958 y
22	IS	13C-OCDD	200.00	3.15e+07	0.92 y	49:38	-	0.655 y
23	IS	13C-2,3,7,8-TCDF	100.00	7.76e+07	0.83 y	26:41	-	1.38 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	7.08e+07	1.63 y	31:30	-	1.26 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.85e+07	0.50 y	37:22	-	1.60 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.49e+07	0.44 y	42:14	-	1.03 y
27	IS	13C-OCDF	200.00	8.91e+07	0.93 y	49:59	-	1.85 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.75e+07	0.50 y	39:44	-	1.98 y
29	PSS	37Cl-2,3,7,8-TCDD	60.00	1.08e+07		27:27	-	0.349 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	60.00	1.83e+07	1.31 y	38:34	-	1.31 y
31	PSS	13C-2,3,4,7,8-PeCDF	60.00	3.48e+07	1.59 y	32:49	-	0.818 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	60.00	3.16e+07	0.52 y	37:11	-	1.37 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	60.00	1.21e+07	0.46 y	45:02	-	0.813 y
34	RS	13C-1,2,3,4-TCDD	100.00	3.74e+07	0.77 y	26:52	3.74e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	5.61e+07	0.82 y	25:37	5.61e+05	- n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.41e+07	1.27 y	39:11	2.41e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.01 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.56 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.37 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.23 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.08 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.803 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.803 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.983 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.21 y

Analyst: 

Date: 8/29/08

Run #3 Filename 28AUG08M S: 13 Acquired: 29-AUG-08 00:52:43 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M2 Analyte: AIR FAL ID: AIR CS2 (061228H)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	1.00	4.37e+05	0.76 y	27:28	-	0.953	y
2	Unk	1,2,3,7,8-PeCDD	5.00	1.96e+06	1.62 y	33:15	-	1.48	y
3	Unk	1,2,3,4,7,8-HxCDD	5.00	1.43e+06	1.27 y	38:35	-	1.36	y
4	Unk	1,2,3,6,7,8-HxCDD	5.00	1.34e+06	1.24 y	38:44	-	1.27	y
5	Unk	1,2,3,7,8,9-HxCDD	5.00	1.41e+06	1.30 y	39:11	-	1.34	y
6	Unk	1,2,3,4,6,7,8-HpCDD	5.00	1.23e+06	0.99 y	44:08	-	1.18	y
7	Unk	OCDD	10.00	1.76e+06	0.89 y	49:38	-	1.26	y
8	Unk	2,3,7,8-TCDF	1.00	7.33e+05	0.72 y	26:43	-	1.04	y
9	Unk	1,2,3,7,8-PeCDF	5.00	2.51e+06	1.54 y	31:31	-	0.796	y
10	Unk	2,3,4,7,8-PeCDF	5.00	2.38e+06	1.50 y	32:50	-	0.757	y
11	Unk	1,2,3,4,7,8-HxCDF	5.00	1.84e+06	1.28 y	37:12	-	1.04	y
12	Unk	1,2,3,6,7,8-HxCDF	5.00	1.87e+06	1.23 y	37:23	-	1.06	y
13	Unk	2,3,4,6,7,8-HxCDF	5.00	1.64e+06	1.24 y	38:20	-	0.927	y
14	Unk	1,2,3,7,8,9-HxCDF	5.00	1.35e+06	1.25 y	39:45	-	0.763	y
15	Unk	1,2,3,4,6,7,8-HpCDF	5.00	1.54e+06	1.01 y	42:15	-	1.39	y
16	Unk	1,2,3,4,7,8,9-HpCDF	5.00	1.14e+06	1.04 y	45:03	-	1.03	y
17	Unk	OCDF	10.00	1.81e+06	0.90 y	50:02	-	0.460	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.59e+07	0.74 y	27:26	-	1.47	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.65e+07	1.60 y	33:14	-	0.846	y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.10e+07	1.26 y	38:44	-	0.996	y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.07e+07	1.08 y	44:08	-	0.983	y
22	IS	13C-OCDD	200.00	2.79e+07	0.95 y	49:37	-	0.662	y
23	IS	13C-2,3,7,8-TCDF	100.00	7.02e+07	0.81 y	26:40	-	1.35	y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	6.30e+07	1.62 y	31:30	-	1.21	y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.54e+07	0.52 y	37:22	-	1.68	y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.21e+07	0.45 y	42:14	-	1.05	y
27	IS	13C-OCDF	200.00	7.87e+07	0.93 y	49:59	-	1.86	y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.17e+07	0.52 y	39:44	-	1.98	y
29	PSS	37Cl-2,3,7,8-TCDD	80.00	1.18e+07		27:27	-	0.322	y
30	PSS	13C-1,2,3,4,7,8-HxCDD	80.00	2.13e+07	1.27 y	38:34	-	1.27	y
31	PSS	13C-2,3,4,7,8-PeCDF	80.00	4.06e+07	1.63 y	32:49	-	0.805	y
32	PSS	13C-1,2,3,4,7,8-HxCDF	80.00	3.83e+07	0.51 y	37:10	-	1.35	y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	80.00	1.38e+07	0.45 y	45:02	-	0.778	y
34	RS	13C-1,2,3,4-TCDD	100.00	3.13e+07	0.76 y	26:51	3.13e+05	-	n
35	RS	13C-1,2,3,4-TCDF	100.00	5.21e+07	0.82 y	25:36	5.21e+05	-	n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.11e+07	1.24 y	39:10	2.11e+05	-	n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.953	y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.48	y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.32	y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.18	y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.04	y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.777	y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.777	y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.946	y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.21	y

Analyst: 

Date: 8/29/08

Run #4 Filename 28AUG08M S: 14 Acquired: 29-AUG-08 01:48:05 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M3 Analyte: AIR FAL ID: AIR CS3 (0612281)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	5.00	2.12e+06	0.77 y	27:28	-	0.951	y
2	Unk	1,2,3,7,8-PeCDD	25.00	9.25e+06	1.61 y	33:15	-	1.44	y
3	Unk	1,2,3,4,7,8-HxCDD	25.00	6.68e+06	1.24 y	38:35	-	1.30	y
4	Unk	1,2,3,6,7,8-HxCDD	25.00	6.31e+06	1.25 y	38:45	-	1.22	y
5	Unk	1,2,3,7,8,9-HxCDD	25.00	6.70e+06	1.23 y	39:11	-	1.30	y
6	Unk	1,2,3,4,6,7,8-HpCDD	25.00	5.85e+06	0.99 y	44:09	-	1.16	y
7	Unk	OCDD	50.00	8.20e+06	0.91 y	49:38	-	1.24	y
8	Unk	2,3,7,8-TCDF	5.00	3.51e+06	0.71 y	26:41	-	1.02	y
9	Unk	1,2,3,7,8-PeCDF	25.00	1.21e+07	1.53 y	31:31	-	0.790	y
10	Unk	2,3,4,7,8-PeCDF	25.00	1.14e+07	1.52 y	32:50	-	0.744	y
11	Unk	1,2,3,4,7,8-HxCDF	25.00	8.62e+06	1.25 y	37:12	-	1.01	y
12	Unk	1,2,3,6,7,8-HxCDF	25.00	8.77e+06	1.26 y	37:24	-	1.03	y
13	Unk	2,3,4,6,7,8-HxCDF	25.00	7.80e+06	1.24 y	38:20	-	0.916	y
14	Unk	1,2,3,7,8,9-HxCDF	25.00	6.59e+06	1.25 y	39:46	-	0.774	y
15	Unk	1,2,3,4,6,7,8-HpCDF	25.00	7.09e+06	1.03 y	42:15	-	1.35	y
16	Unk	1,2,3,4,7,8,9-HpCDF	25.00	5.67e+06	1.05 y	45:03	-	1.08	y
17	Unk	OCDF	50.00	8.61e+06	0.91 y	49:60	-	0.457	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.47e+07	0.76 y	27:25	-	1.46	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.57e+07	1.58 y	33:13	-	0.839	y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.06e+07	1.26 y	38:44	-	0.971	y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.01e+07	1.10 y	44:07	-	0.949	y
22	IS	13C-OCDD	200.00	2.65e+07	0.93 y	49:38	-	0.625	y
23	IS	13C-2,3,7,8-TCDF	100.00	6.86e+07	0.84 y	26:40	-	1.34	y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	6.14e+07	1.62 y	31:30	-	1.20	y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.41e+07	0.51 y	37:23	-	1.61	y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.09e+07	0.45 y	42:14	-	0.988	y
27	IS	13C-OCDF	200.00	7.54e+07	0.92 y	49:60	-	1.78	y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.19e+07	0.52 y	39:44	-	1.98	y
29	PSS	37Cl-2,3,7,8-TCDD	100.00	1.51e+07		27:28	-	0.339	y
30	PSS	13C-1,2,3,4,7,8-HxCDD	100.00	2.72e+07	1.27 y	38:34	-	1.32	y
31	PSS	13C-2,3,4,7,8-PeCDF	100.00	5.12e+07	1.62 y	32:49	-	0.834	y
32	PSS	13C-1,2,3,4,7,8-HxCDF	100.00	4.84e+07	0.52 y	37:11	-	1.42	y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.79e+07	0.44 y	45:02	-	0.852	y
34	RS	13C-1,2,3,4-TCDD	100.00	3.07e+07	0.77 y	26:51	3.07e+05	-	n
35	RS	13C-1,2,3,4-TCDF	100.00	5.13e+07	0.83 y	25:37	5.13e+05	-	n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.12e+07	1.26 y	39:11	2.12e+05	-	n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.951	y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.44	y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.27	y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.16	y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.02	y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.767	y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.767	y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.933	y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.22	y

Analyst: 

Date: 8/29/08

Run #5 Filename 28AUG08M S: 15 Acquired: 29-AUG-08 02:43:28 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M4 Analyte: AIR FAL ID: AIR CS4 (061228J)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	50.00	1.75e+07	0.80 y	27:27	-	0.793 y
2	Unk	1,2,3,7,8-PeCDD	250.00	8.57e+07	1.63 y	33:15	-	1.33 y
3	Unk	1,2,3,4,7,8-HxCDD	250.00	6.02e+07	1.28 y	38:35	-	1.18 y
4	Unk	1,2,3,6,7,8-HxCDD	250.00	5.61e+07	1.27 y	38:46	-	1.10 y
5	Unk	1,2,3,7,8,9-HxCDD	250.00	5.94e+07	1.27 y	39:12	-	1.17 y
6	Unk	1,2,3,4,6,7,8-HpCDD	250.00	5.06e+07	0.99 y	44:09	-	1.03 y
7	Unk	OCDD	500.00	7.35e+07	0.90 y	49:39	-	1.11 y
8	Unk	2,3,7,8-TCDF	50.00	2.95e+07	0.70 y	26:42	-	0.878 y
9	Unk	1,2,3,7,8-PeCDF	250.00	1.15e+08	1.57 y	31:32	-	0.745 y
10	Unk	2,3,4,7,8-PeCDF	250.00	1.08e+08	1.54 y	32:50	-	0.703 y
11	Unk	1,2,3,4,7,8-HxCDF	250.00	8.02e+07	1.27 y	37:12	-	0.925 y
12	Unk	1,2,3,6,7,8-HxCDF	250.00	8.24e+07	1.24 y	37:23	-	0.950 y
13	Unk	2,3,4,6,7,8-HxCDF	250.00	7.39e+07	1.26 y	38:20	-	0.853 y
14	Unk	1,2,3,7,8,9-HxCDF	250.00	6.20e+07	1.26 y	39:45	-	0.714 y
15	Unk	1,2,3,4,6,7,8-HpCDF	250.00	6.59e+07	1.03 y	42:16	-	1.24 y
16	Unk	1,2,3,4,7,8,9-HpCDF	250.00	5.10e+07	1.02 y	45:03	-	0.961 y
17	Unk	OCDF	500.00	7.96e+07	0.91 y	50:00	-	0.431 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.41e+07	0.77 y	27:26	-	1.46 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.57e+07	1.62 y	33:14	-	0.850 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.04e+07	1.26 y	38:44	-	0.974 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.96e+07	1.09 y	44:07	-	0.939 y
22	IS	13C-OCDD	200.00	2.65e+07	0.92 y	49:38	-	0.634 y
23	IS	13C-2,3,7,8-TCDF	100.00	6.72e+07	0.82 y	26:41	-	1.37 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	6.17e+07	1.63 y	31:30	-	1.26 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.47e+07	0.52 y	37:23	-	1.66 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.12e+07	0.44 y	42:14	-	1.01 y
27	IS	13C-OCDF	200.00	7.38e+07	0.93 y	50:00	-	1.76 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.22e+07	0.53 y	39:44	-	2.02 y
29	PSS	37Cl-2,3,7,8-TCDD	120.00	1.77e+07		27:27	-	0.335 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	120.00	3.24e+07	1.28 y	38:34	-	1.33 y
31	PSS	13C-2,3,4,7,8-PeCDF	120.00	5.72e+07	1.63 y	32:48	-	0.773 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	120.00	5.64e+07	0.52 y	37:10	-	1.35 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	120.00	2.04e+07	0.45 y	45:02	-	0.802 y
34	RS	13C-1,2,3,4-TCDD	100.00	3.02e+07	0.77 y	26:51	3.02e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	4.92e+07	0.83 y	25:36	4.92e+05	- n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.09e+07	1.27 y	39:10	2.09e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.793 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.33 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.15 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.03 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	0.878 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.724 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.724 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.860 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.10 y

Analyst: 

Date: 8/29/08

Run #6 Filename 28AUG08M S: 16 Acquired: 29-AUG-08 03:38:57 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M5 Analyte: AIRFAL3-8-29-08 FAL ID: AIR CS5 (061228K)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	100.00	3.89e+07	0.78 y	27:25	-	0.789	y
2	Unk	1,2,3,7,8-PeCDD	500.00	2.01e+08	1.64 y	33:15	-	1.33	y
3	Unk	1,2,3,4,7,8-HxCDD	500.00	1.47e+08	1.29 y	38:35	-	1.22	y
4	Unk	1,2,3,6,7,8-HxCDD	500.00	1.31e+08	1.30 y	38:46	-	1.08	y
5	Unk	1,2,3,7,8,9-HxCDD	500.00	1.43e+08	1.32 y	39:12	-	1.18	y
6	Unk	1,2,3,4,6,7,8-HpCDD	500.00	1.19e+08	0.99 y	44:09	-	1.04	y
7	Unk	OCDD	1000.00	1.90e+08	0.91 y	49:40	-	1.13	y
8	Unk	2,3,7,8-TCDF	100.00	6.50e+07	0.72 y	26:40	-	0.870	y
9	Unk	1,2,3,7,8-PeCDF	500.00	2.74e+08	1.55 y	31:31	-	0.773	y
10	Unk	2,3,4,7,8-PeCDF	500.00	2.55e+08	1.55 y	32:50	-	0.721	y
11	Unk	1,2,3,4,7,8-HxCDF	500.00	1.87e+08	1.24 y	37:12	-	0.919	y
12	Unk	1,2,3,6,7,8-HxCDF	500.00	1.97e+08	1.24 y	37:25	-	0.969	y
13	Unk	2,3,4,6,7,8-HxCDF	500.00	1.79e+08	1.25 y	38:20	-	0.879	y
14	Unk	1,2,3,7,8,9-HxCDF	500.00	1.50e+08	1.27 y	39:46	-	0.737	y
15	Unk	1,2,3,4,6,7,8-HpCDF	500.00	1.60e+08	1.03 y	42:16	-	1.25	y
16	Unk	1,2,3,4,7,8,9-HpCDF	500.00	1.27e+08	1.04 y	45:03	-	0.993	y
17	Unk	OCDF	1000.00	2.06e+08	0.90 y	50:02	-	0.426	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.93e+07	0.75 y	27:24	-	1.52	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.03e+07	1.62 y	33:13	-	0.936	y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.42e+07	1.26 y	38:44	-	0.957	y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.30e+07	1.09 y	44:08	-	0.913	y
22	IS	13C-OCDD	200.00	3.37e+07	0.93 y	49:38	-	0.667	y
23	IS	13C-2,3,7,8-TCDF	100.00	7.47e+07	0.82 y	26:39	-	1.37	y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	7.08e+07	1.63 y	31:31	-	1.30	y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.06e+07	0.51 y	37:23	-	1.61	y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.56e+07	0.46 y	42:14	-	1.01	y
27	IS	13C-OCDF	200.00	9.68e+07	0.92 y	50:01	-	1.92	y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	5.08e+07	0.51 y	39:45	-	2.01	y
29	PSS	37Cl-2,3,7,8-TCDD	140.00	2.23e+07		27:25	-	0.324	y
30	PSS	13C-1,2,3,4,7,8-HxCDD	140.00	4.54e+07	1.28 y	38:34	-	1.34	y
31	PSS	13C-2,3,4,7,8-PeCDF	140.00	7.61e+07	1.63 y	32:49	-	0.768	y
32	PSS	13C-1,2,3,4,7,8-HxCDF	140.00	7.74e+07	0.52 y	37:11	-	1.36	y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	140.00	2.86e+07	0.44 y	45:02	-	0.796	y
34	RS	13C-1,2,3,4-TCDD	100.00	3.24e+07	0.76 y	26:50	3.24e+05	-	n
35	RS	13C-1,2,3,4-TCDF	100.00	5.46e+07	0.83 y	25:35	5.46e+05	-	n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.52e+07	1.30 y	39:11	2.52e+05	-	n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.789	y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.33	y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.16	y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.04	y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	0.870	y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.747	y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.747	y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.876	y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.12	y

Analyst:



Date:

8/29/08

AIR FORM 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS3 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.08	1.01	0.95	0.95	0.79	0.79	0.93	12.5
1,2,3,7,8-PeCDD	1.72	1.56	1.48	1.44	1.33	1.33	1.48	10.1
1,2,3,4,7,8-HxCDD	1.48	1.36	1.36	1.30	1.18	1.22	1.32	8.39
1,2,3,6,7,8-HxCDD	1.47	1.33	1.27	1.22	1.10	1.08	1.25	11.5
1,2,3,7,8,9-HxCDD	1.50	1.43	1.34	1.30	1.17	1.18	1.32	10.1
1,2,3,4,6,7,8-HpCDD	1.32	1.23	1.18	1.16	1.03	1.04	1.16	9.57
OCDD	1.39	1.31	1.26	1.24	1.11	1.13	1.24	8.82
2,3,7,8-TCDF	1.12	1.08	1.04	1.02	0.88	0.87	1.00	10.5
1,2,3,7,8-PeCDF	0.90	0.83	0.80	0.79	0.74	0.77	0.81	6.80
2,3,4,7,8-PeCDF	0.87	0.78	0.76	0.74	0.70	0.72	0.76	7.62
1,2,3,4,7,8-HxCDF	1.16	1.04	1.04	1.01	0.92	0.92	1.02	8.76
1,2,3,6,7,8-HxCDF	1.19	1.10	1.06	1.03	0.95	0.97	1.05	8.56
2,3,4,6,7,8-HxCDF	1.07	0.96	0.93	0.92	0.85	0.88	0.93	8.22
1,2,3,7,8,9-HxCDF	0.91	0.83	0.76	0.77	0.71	0.74	0.79	9.17
1,2,3,4,6,7,8-HpCDF	1.52	1.40	1.39	1.35	1.24	1.25	1.36	7.65
1,2,3,4,7,8,9-HpCDF	1.14	1.03	1.03	1.08	0.96	0.99	1.04	6.10
OCDF	0.52	0.48	0.46	0.46	0.43	0.43	0.46	7.47

Analyst: Date: 8/29/08

AIR FORM 3B
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS4 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
INTERNAL STANDARDS								
13C-2,3,7,8-TCDD	1.39	1.38	1.47	1.46	1.46	1.52	1.44	3.70
13C-1,2,3,7,8-PeCDD	0.78	0.79	0.85	0.84	0.85	0.94	0.84	6.50
13C-1,2,3,6,7,8-HxCDD	0.96	0.97	1.00	0.97	0.97	0.96	0.97	1.48
13C-1,2,3,4,6,7,8-HpCDD	0.92	0.96	0.98	0.95	0.94	0.91	0.94	2.73
13C-OCDD	0.64	0.66	0.66	0.63	0.63	0.67	0.65	2.60
13C-2,3,7,8-TCDF	1.34	1.38	1.35	1.34	1.37	1.37	1.36	1.42
13C-1,2,3,7,8-PeCDF	1.16	1.26	1.21	1.20	1.26	1.30	1.23	4.06
13C-1,2,3,6,7,8-HxCDF	1.53	1.60	1.68	1.61	1.66	1.61	1.61	3.15
13C-1,2,3,4,6,7,8-HpCDF	1.00	1.03	1.05	0.99	1.01	1.01	1.02	2.19
13C-OCDF	1.82	1.85	1.86	1.78	1.76	1.92	1.83	3.12
CLEANUP STANDARD								
13C-1,2,3,7,8,9-HxCDF	1.96	1.98	1.98	1.98	2.02	2.01	1.99	1.15
PRE-SPIKE STANDARDS								
37Cl-2,3,7,8-TCDD	0.34	0.35	0.32	0.34	0.34	0.32	0.33	3.02
13C-1,2,3,4,7,8-HxCDD	1.34	1.31	1.27	1.32	1.33	1.34	1.32	2.17
13C-2,3,4,7,8-PeCDF	0.88	0.82	0.81	0.83	0.77	0.77	0.81	5.12
13C-1,2,3,4,7,8-HxCDF	1.45	1.37	1.35	1.42	1.35	1.36	1.38	2.98
13C-1,2,3,4,7,8,9-HpCDF	0.85	0.81	0.78	0.85	0.80	0.80	0.81	3.59

Analyst: 

Date: 8/29/09

AIR FORM 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08


Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS3 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
NATIVE ANALYTES								
2,3,7,8-TCDD	M/M+2	0.70	0.76	0.76	0.77	0.80	0.78	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.61	1.62	1.61	1.63	1.64	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.21	1.22	1.27	1.24	1.28	1.29	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.29	1.24	1.25	1.27	1.30	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.27	1.30	1.23	1.27	1.32	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	0.94	0.99	0.99	0.99	0.99	0.88-1.20
OCDD	M+2/M+4	0.88	0.93	0.89	0.91	0.90	0.91	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.69	0.72	0.72	0.71	0.70	0.72	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.49	1.54	1.53	1.57	1.55	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.49	1.53	1.50	1.52	1.54	1.55	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.18	1.22	1.28	1.25	1.27	1.24	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.22	1.23	1.26	1.24	1.24	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.24	1.24	1.24	1.26	1.25	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.21	1.24	1.25	1.25	1.26	1.27	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.04	1.01	1.03	1.03	1.03	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	1.03	1.04	1.05	1.02	1.04	0.88-1.20
OCDF	M+2/M+4	0.86	0.87	0.90	0.91	0.91	0.90	0.76-1.02

Analyst: 

Date: 8/29/08

AIR FORM 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS3 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
INTERNAL STANDARDS								
13C-2,3,7,8-TCDD	M/M+2	0.73	0.75	0.74	0.76	0.77	0.75	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.59	1.60	1.58	1.62	1.62	1.32-1.78
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.24	1.26	1.26	1.26	1.26	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	1.10	1.08	1.10	1.09	1.09	0.88-1.20
13C-OCDD	M+2/M+4	0.90	0.92	0.95	0.93	0.92	0.93	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.83	0.83	0.81	0.84	0.82	0.82	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.63	1.62	1.62	1.63	1.63	1.32-1.78
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.50	0.52	0.51	0.52	0.51	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.44	0.45	0.45	0.44	0.46	0.37-0.51
13C-OCDF	M+2/M+4	0.93	0.93	0.93	0.92	0.93	0.92	0.76-1.02
CLEANUP STANDARD								
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.50	0.52	0.52	0.53	0.51	
PRE-SPIKE STANDARDS								
37Cl-2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.31	1.27	1.27	1.28	1.28	1.05-1.43
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.59	1.63	1.62	1.63	1.63	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.52	0.51	0.52	0.52	0.52	0.43-0.59
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.46	0.46	0.45	0.44	0.45	0.44	0.37-0.51

Analyst: 

Date: 8/29/08

USEPA - ITD

AIR FORM 4A
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 28AUG08M Sam:14

Analysis Date: 29-AUG-08 01:48:05

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	5.12	3.75 - 6.25
1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	24.3	18.7 - 31.2
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	24.6	18.7 - 31.2
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	24.6	18.7 - 31.2
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	24.7	18.7 - 31.2
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.99	0.88-1.20	y	25.0	18.7 - 31.2
OCDD	M+2/M+4	0.91	0.76-1.02	y	49.9	37.5 - 62.5
2,3,7,8-TCDF	M/M+2	0.71	0.65-0.89	y	5.10	3.75 - 6.25
1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	24.5	18.7 - 31.2
2,3,4,7,8-PeCDF	M+2/M+4	1.52	1.32-1.78	y	24.4	18.7 - 31.2
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	24.9	18.7 - 31.2
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	24.5	18.7 - 31.2
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	24.5	18.7 - 31.2
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	24.5	18.7 - 31.2
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	24.9	18.7 - 31.2
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	26.1	18.7 - 31.2
OCDF	M+2/M+4	0.91	0.76-1.02	y	49.5	35.0 - 65.0

Analyst: Date: 8/29/08

USEPA - ITD

AIR FORM 4B
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 28AUG08M

Sam:14

Analysis Date: 29-AUG-08 01:48:05

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	101	75.0 - 125
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	99.8	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	100	75.0 - 125
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.10	0.88-1.20	y	101	70.0 - 130
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	193	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.84	0.65-0.89	y	98.7	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	97.4	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	99.4	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	97.1	70.0 - 130
13C-OCDF	M+2/M+4	0.92	0.76-1.02	y	194	140 - 260
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	99.5	75.0 - 125
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					101	75.0 - 125
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	100	75.0 - 125
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	103	75.0 - 125
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	103	75.0 - 125
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	105	75.0 - 125

Analyst: Date: 8/29/08

Lab Name: Frontier Analytical Laboratory	Episode No.:
Contract No.:	SAS No.:
Instrument ID: FAL3	Initial Calibration Date: 8/8/08
RT Window Data Filename: 28AUG08M Sam:14	Analysis Date: 29-AUG-08 Time: 01:48:05
DB-5 IS Data Filename: 28AUG08M Sam:14	Analysis Date: 29-AUG-08 Time: 01:48:05
DB-225 IS Date Filename:	Analysis Date: Time:

ABSOLUTE		ABSOLUTE	
ISOMERS	RT	ISOMERS	RT
1,3,6,8-TCDD (F)	24:28	1,3,6,8-TCDF (F)	23:08
1,2,8,9-TCDD (L)	28:22	1,2,8,9-TCDF (L)	28:35
1,2,4,7,9-PeCDD (F)	30:17	1,3,4,6,8-PeCDF (F)	28:28
1,2,3,8,9-PeCDD (L)	33:49	1,2,3,8,9-PeCDF (L)	34:14
1,2,4,6,7,9-HxCDD (F)	36:09	1,2,3,4,6,8-HxCDF (F)	35:16
1,2,3,7,8,9-HxCDD (L)	39:11	1,2,3,7,8,9-HxCDF (L)	39:46
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)	44:09	1,2,3,4,7,8,9-HpCDF (L)	45:03

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

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

Analyst:

Date:

Results:

GC Column: DB5

Amount: 1.000

NATO 1989 Tox: 49.3

WHO 1998 Tox: 61.4

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL
------	------	----	----	-----	------	------	-----	-------	----

	2,3,7,8-TCDD	2.12e+06	0.77 y	27:28	0.93	5.12	2.50	-	*	
	1,2,3,7,8-PeCDD	9.25e+06	1.61 y	33:15	1.48	24.3	2.50	-	*	
	1,2,3,4,7,8-HxCDD	6.68e+06	1.24 y	38:35	1.32	24.6	2.50	-	*	
	1,2,3,6,7,8-HxCDD	6.31e+06	1.25 y	38:45	1.25	24.6	2.50	-	*	
	1,2,3,7,8,9-HxCDD	6.70e+06	1.23 y	39:11	1.32	24.7	2.50	-	*	
	1,2,3,4,6,7,8-HpCDD	5.85e+06	0.99 y	44:09	1.16	25.0	2.50	-	*	
	OCDD	8.20e+06	0.91 y	49:38	1.24	49.9	2.50	-	*	
	2,3,7,8-TCDF	3.51e+06	0.71 y	26:41	1.00	5.10	2.50	-	*	
	1,2,3,7,8-PeCDF	1.21e+07	1.53 y	31:31	0.81	24.5	2.50	-	*	
	2,3,4,7,8-PeCDF	1.14e+07	1.52 y	32:50	0.76	24.4	2.50	-	*	
	1,2,3,4,7,8-HxCDF	8.62e+06	1.25 y	37:12	1.02	24.9	2.50	-	*	
	1,2,3,6,7,8-HxCDF	8.77e+06	1.26 y	37:24	1.05	24.5	2.50	-	*	
	2,3,4,6,7,8-HxCDF	7.80e+06	1.24 y	38:20	0.93	24.5	2.50	-	*	
	1,2,3,7,8,9-HxCDF	6.59e+06	1.25 y	39:46	0.79	24.5	2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	7.09e+06	1.03 y	42:15	1.36	24.9	2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	5.67e+06	1.05 y	45:03	1.04	26.1	2.50	-	*	
	OCDF	8.61e+06	0.91 y	49:60	0.46	49.5	2.50	-	*	
										Rec
	13C-2,3,7,8-TCDD	4.47e+07	0.76 y	27:25	1.44	101				101
	13C-1,2,3,7,8-PeCDD	2.57e+07	1.58 y	33:13	0.84	99.8				99.8
	13C-1,2,3,6,7,8-HxCDD	2.06e+07	1.26 y	38:44	0.97	100				100
	13C-1,2,3,4,6,7,8-HpCDD	2.01e+07	1.10 y	44:07	0.94	101				101
	13C-OCDD	2.65e+07	0.93 y	49:38	0.65	193				96.7
	13C-2,3,7,8-TCDF	6.86e+07	0.84 y	26:40	1.36	98.7				98.7
	13C-1,2,3,7,8-PeCDF	6.14e+07	1.62 y	31:30	1.23	97.4				97.4
	13C-1,2,3,6,7,8-HxCDF	3.41e+07	0.51 y	37:23	1.61	99.4				99.4
	13C-1,2,3,4,6,7,8-HpCDF	2.09e+07	0.45 y	42:14	1.02	97.1				97.1
	13C-OCDF	7.54e+07	0.92 y	49:60	1.83	194				97.0
	13C-1,2,3,7,8,9-HxCDF	4.19e+07	0.52 y	39:44	1.99	99.5				99.5
	37Cl-2,3,7,8-TCDD	1.51e+07		27:28	0.33	101				101
	13C-1,2,3,4,7,8-HxCDD	2.72e+07	1.27 y	38:34	1.32	100				100
	13C-2,3,4,7,8-PeCDF	5.12e+07	1.62 y	32:49	0.81	103				103
	13C-1,2,3,4,7,8-HxCDF	4.84e+07	0.52 y	37:11	1.38	103				103
	13C-1,2,3,4,7,8,9-HpCDF	1.79e+07	0.44 y	45:02	0.81	105				105
	13C-1,2,3,4-TCDD	3.07e+07	0.77 y	26:51	-	87.2				
	13C-1,2,3,4-TCDF	5.13e+07	0.83 y	25:37	-	89.9				
	13C-1,2,3,7,8,9-HxCDD	2.12e+07	1.26 y	39:11	-	88.4				
							Fac	Noise	DL	#Hom
	Total Tetra-Dioxins	9.20e+06		23:14	0.93	22.2	2.50	-	*	26
	Total Penta-Dioxins	2.35e+07		30:17	1.48	61.7	2.50	-	*	19
	Total Hexa-Dioxins	2.77e+07		36:09	1.29	104	2.50	-	*	27
	Total Hepta-Dioxins	1.21e+07		42:14	1.16	51.7	2.50	-	*	24
	Total Tetra-Furans	1.31e+07		23:08	1.00	19.0	2.50	-	*	26
1st Fn.	Tot Penta-Furans	8.84e+06		28:28	0.78	18.3	2.50	-	*	4
	Total Penta-Furans	3.23e+07		30:12	0.78	67.0	2.50	-	*	17
	Total Hexa-Furans	4.14e+07		35:16	0.95	128	2.50	-	*	20
	Total Hepta-Furans	1.31e+07		42:15	1.20	52.5	2.50	-	*	23

Analyst:

Date:

Frontier Analytical Laboratory - Acquisition Log

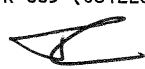
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Instrument: FAL3

GC: DB5

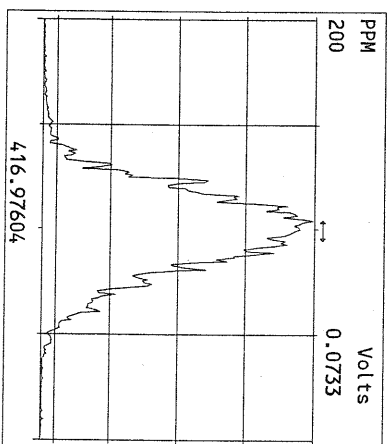
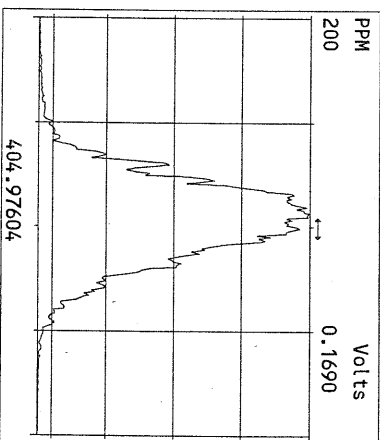
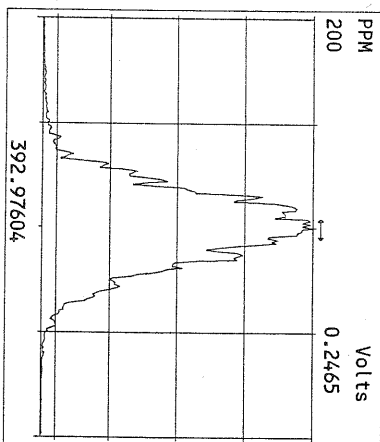
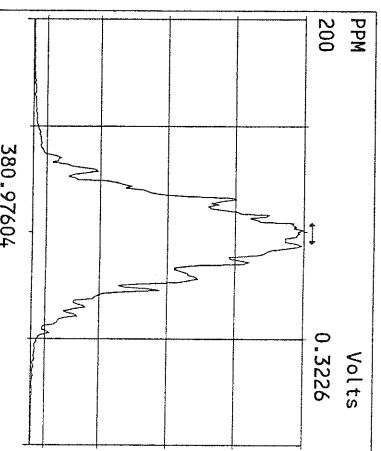
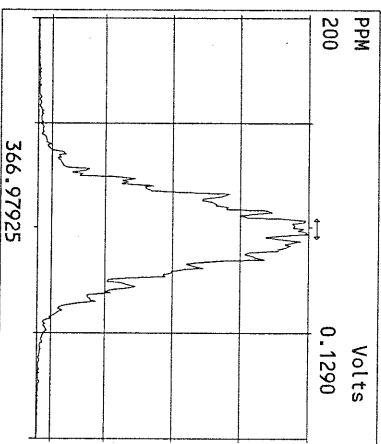
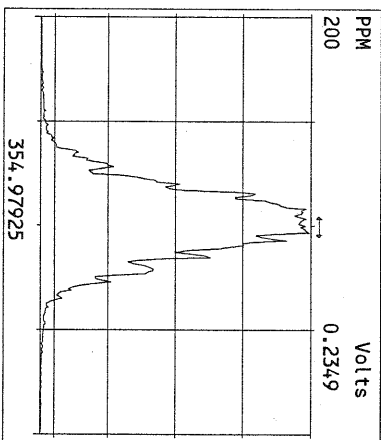
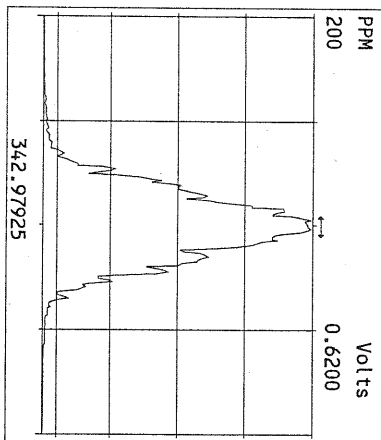
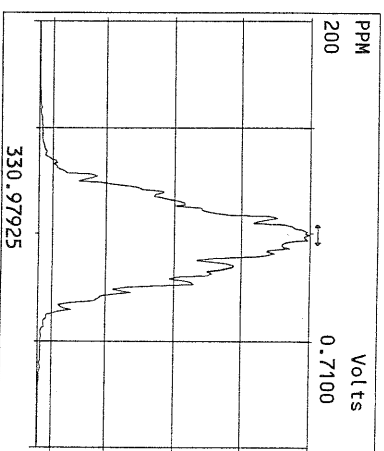
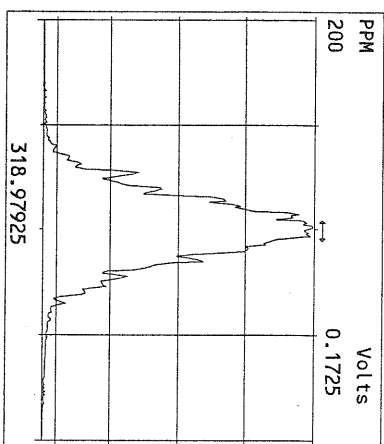
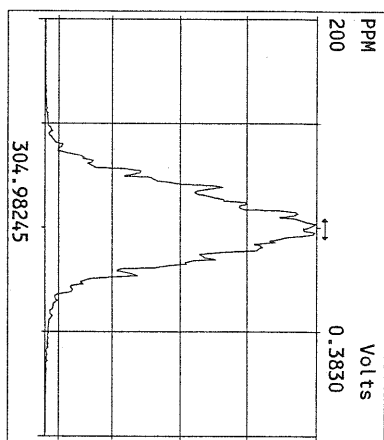
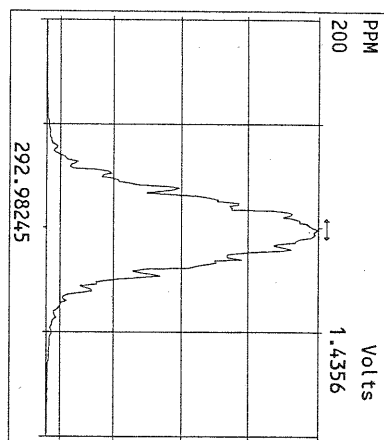
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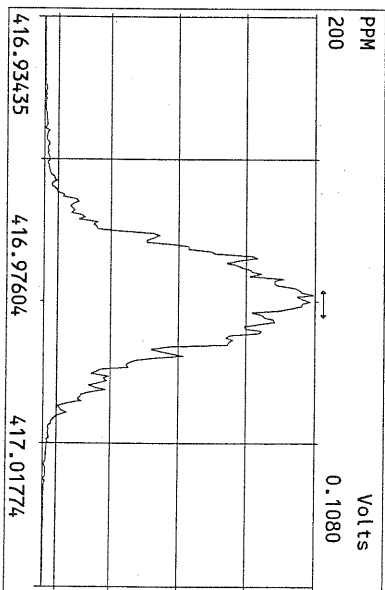
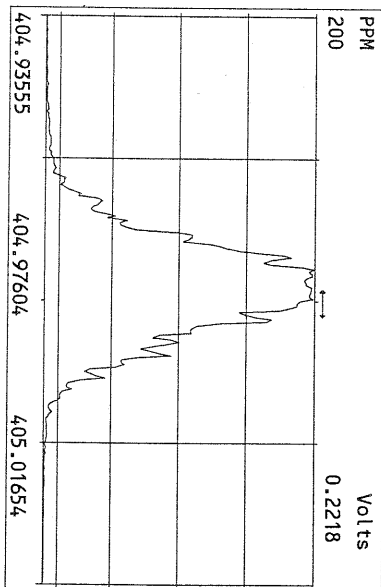
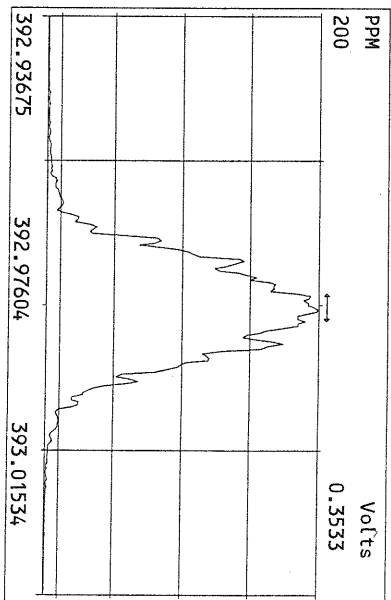
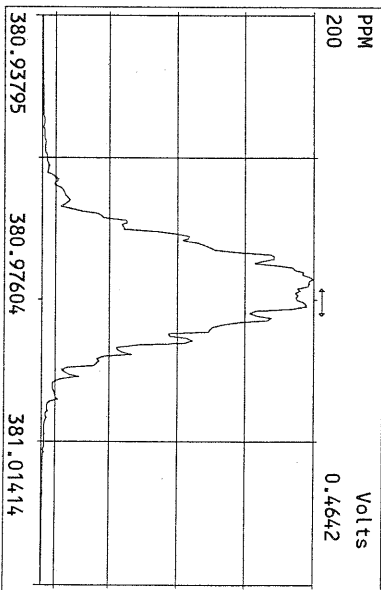
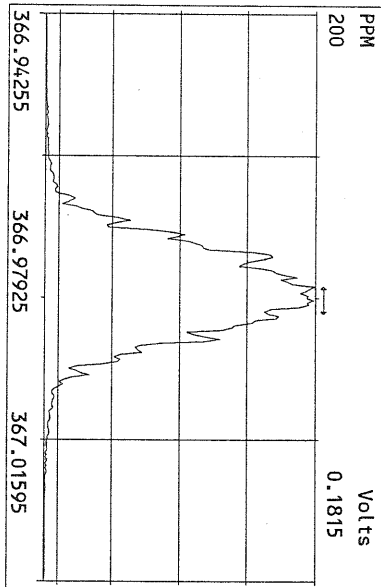
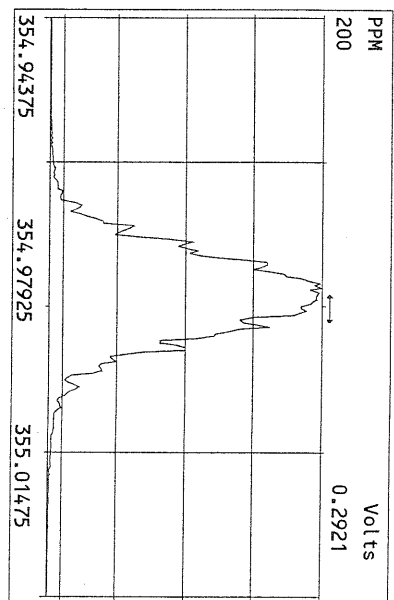
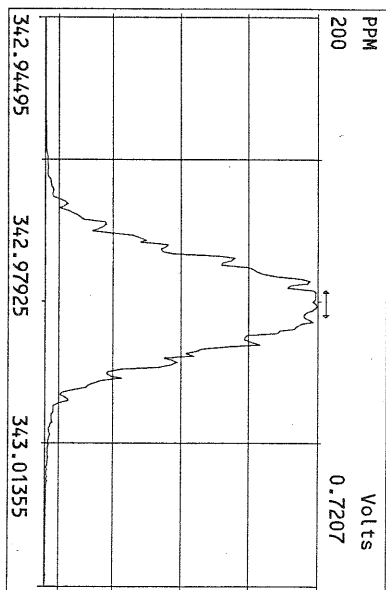
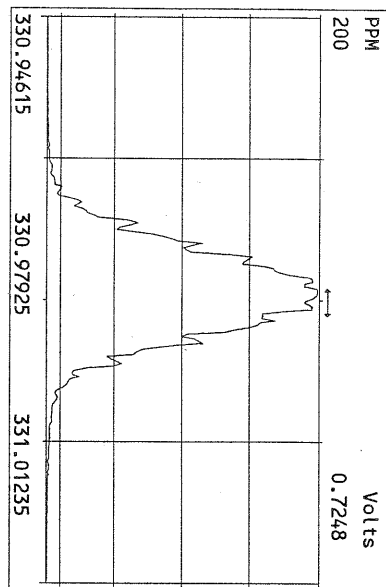
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28AUG08M 3	1505-001-0001-MB	Method Blank	28-AUG-08 15:38:22	ST082808M1	ST082808M2	TC
28AUG08M 4	5058-001-0001-SA	Influent	28-AUG-08 16:33:49	ST082808M1	ST082808M2	TC
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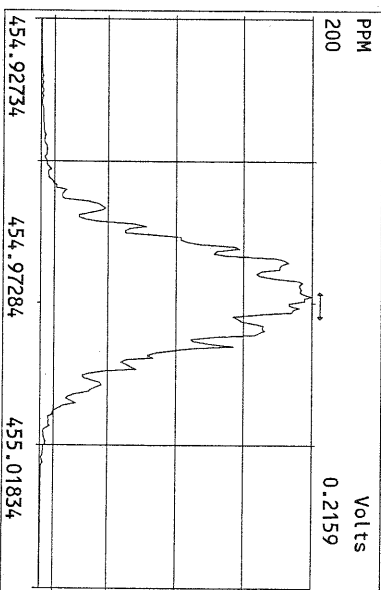
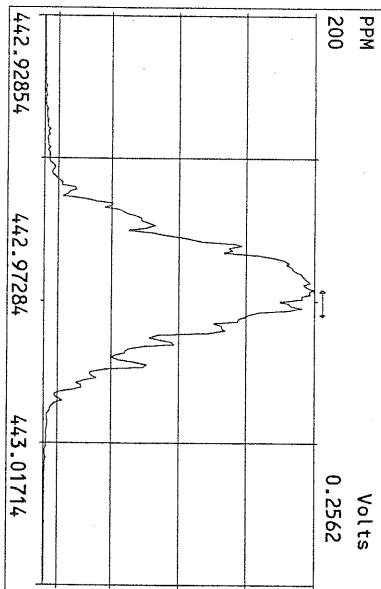
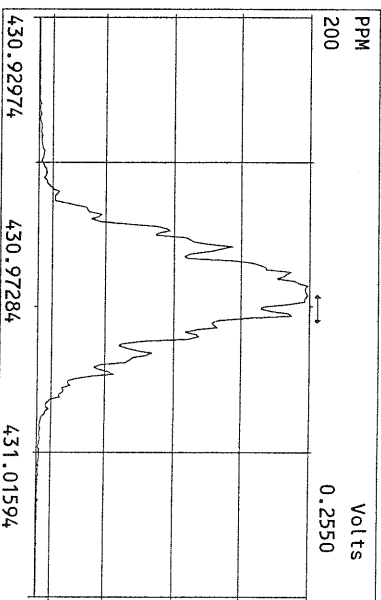
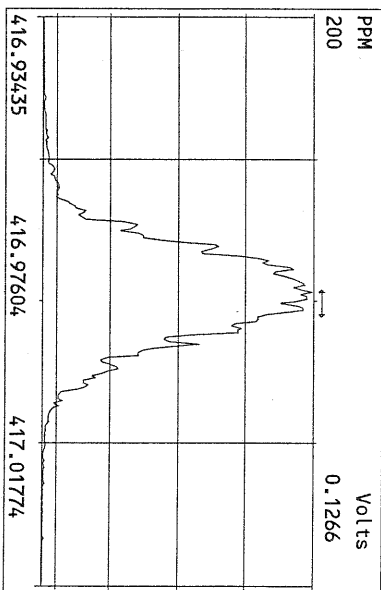
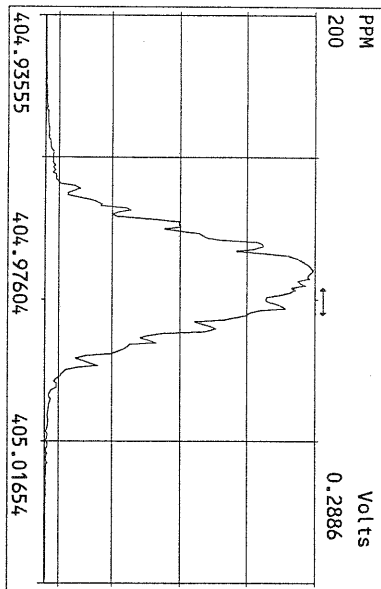
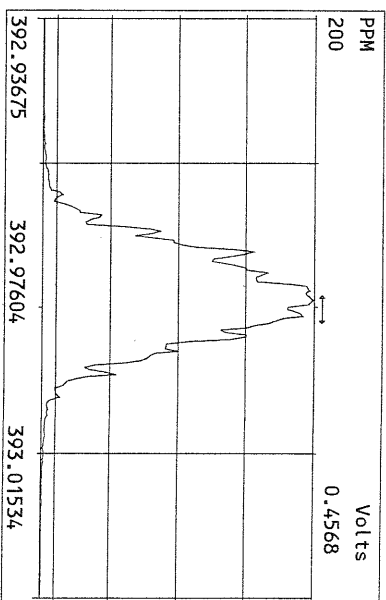
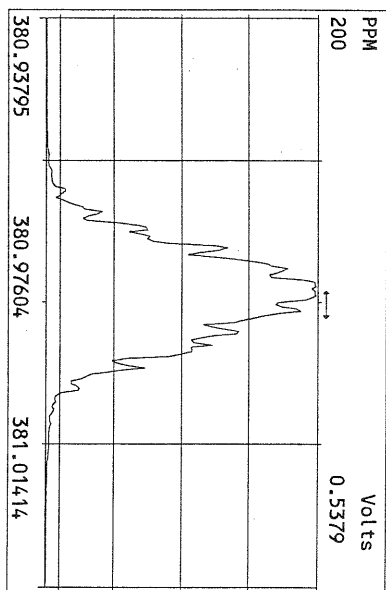
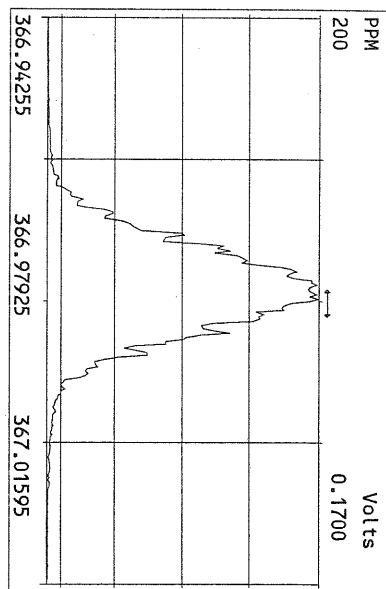

8/29/08

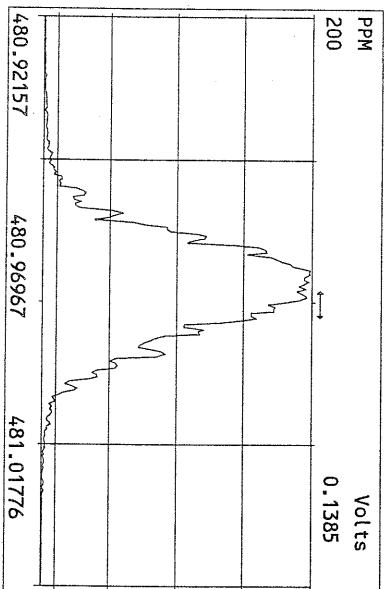
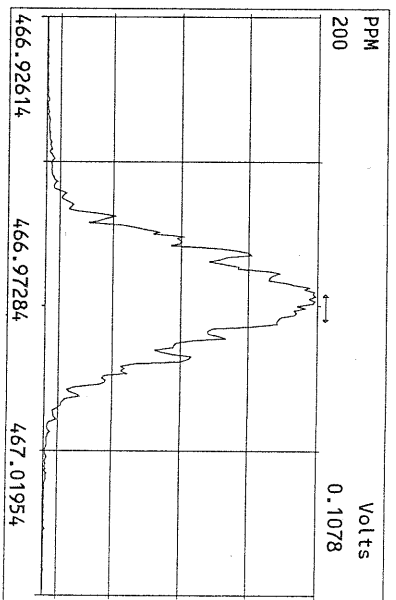
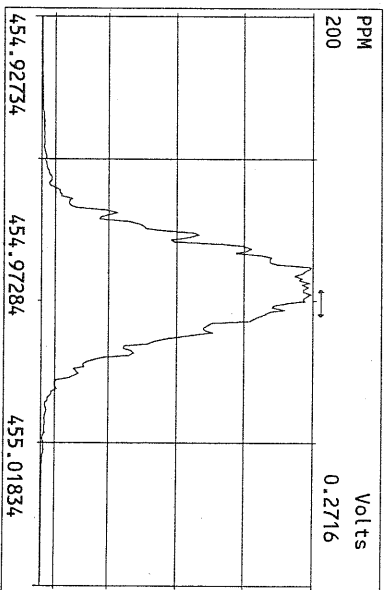
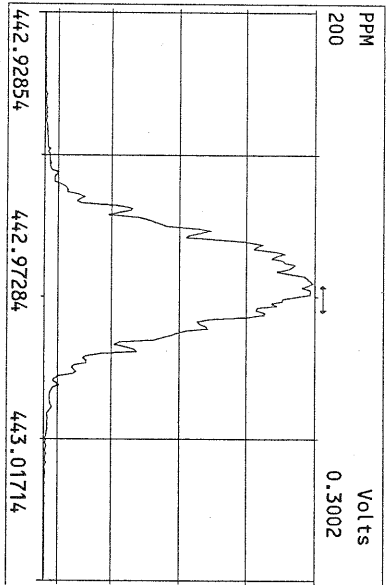
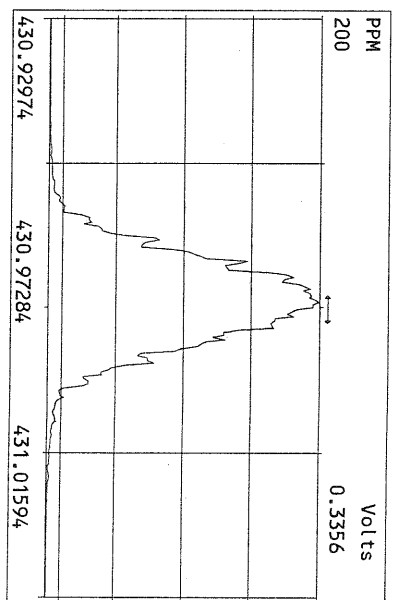
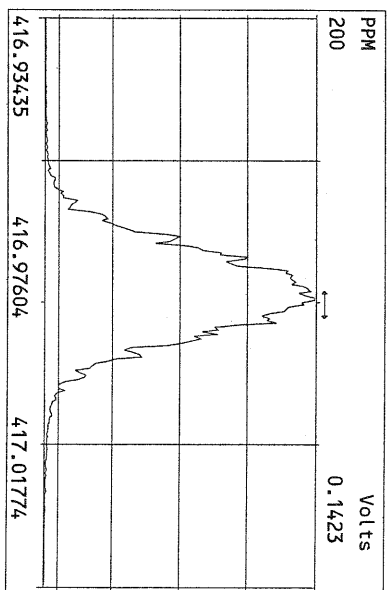
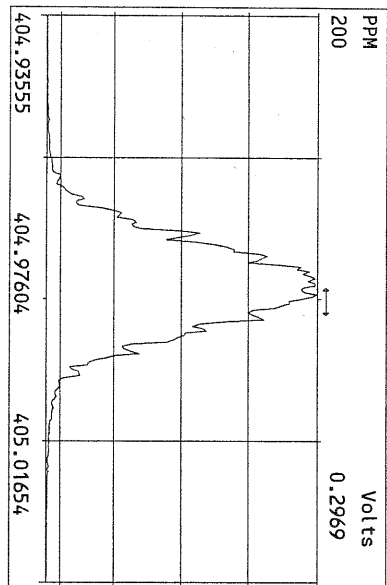
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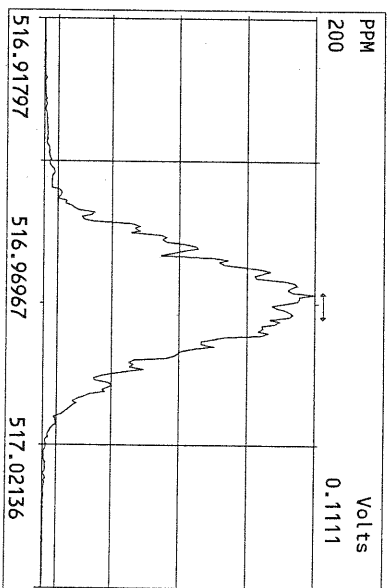
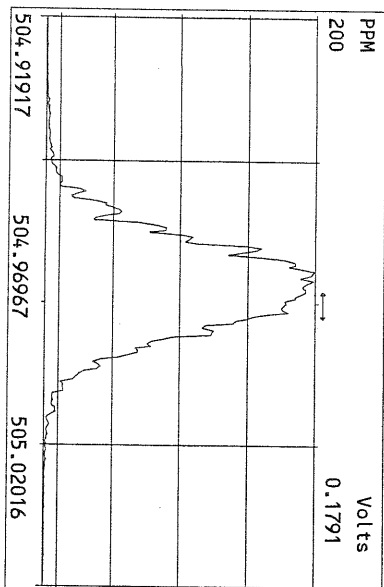
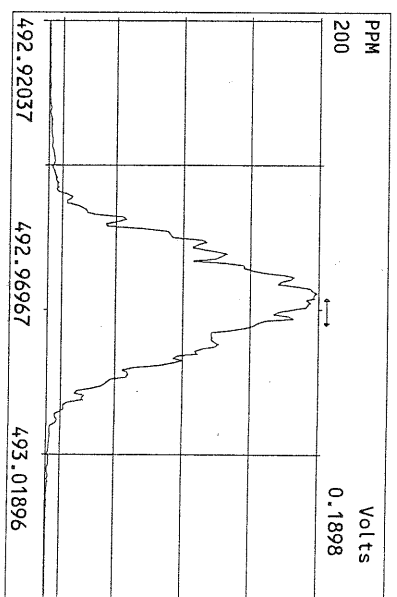
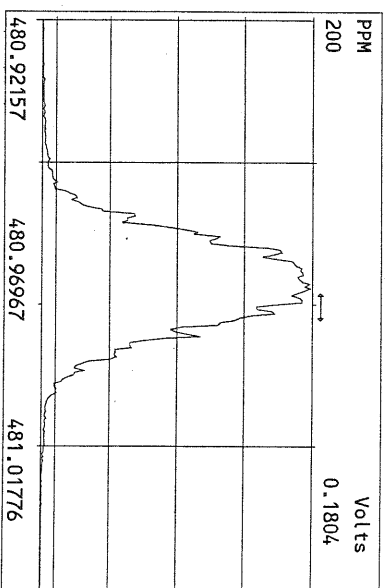
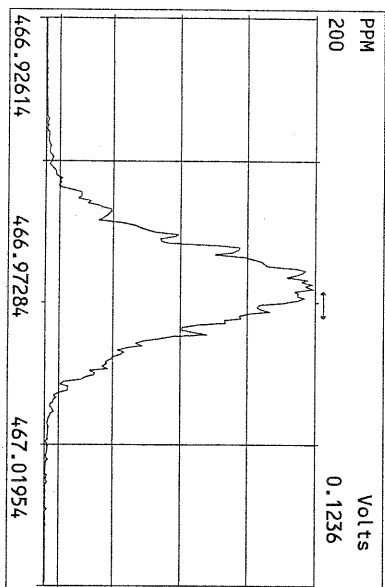
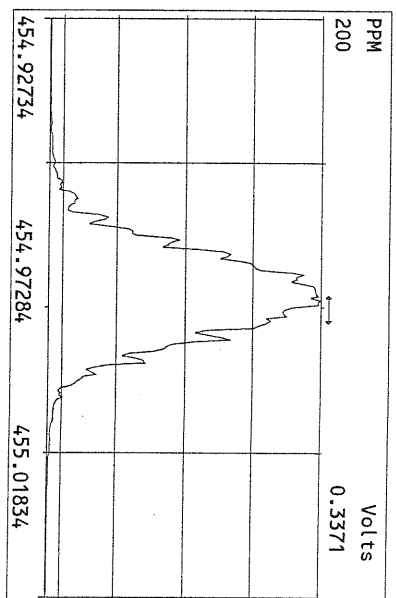
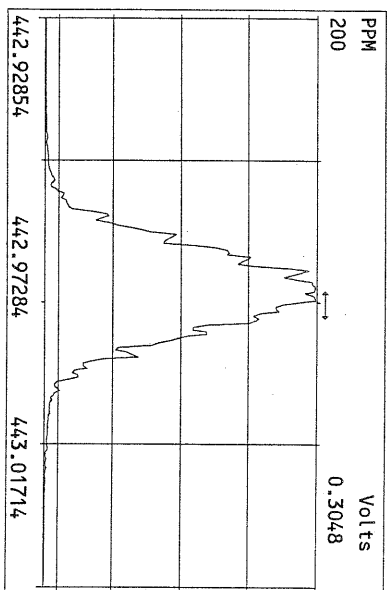
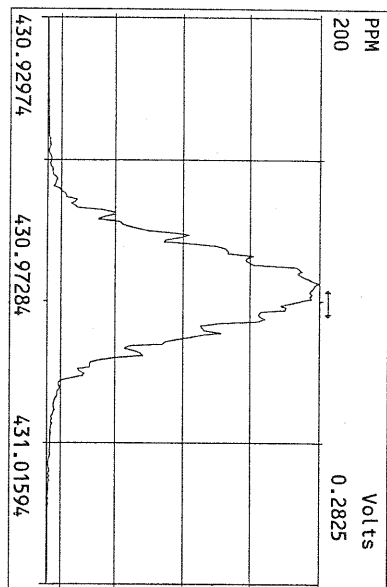
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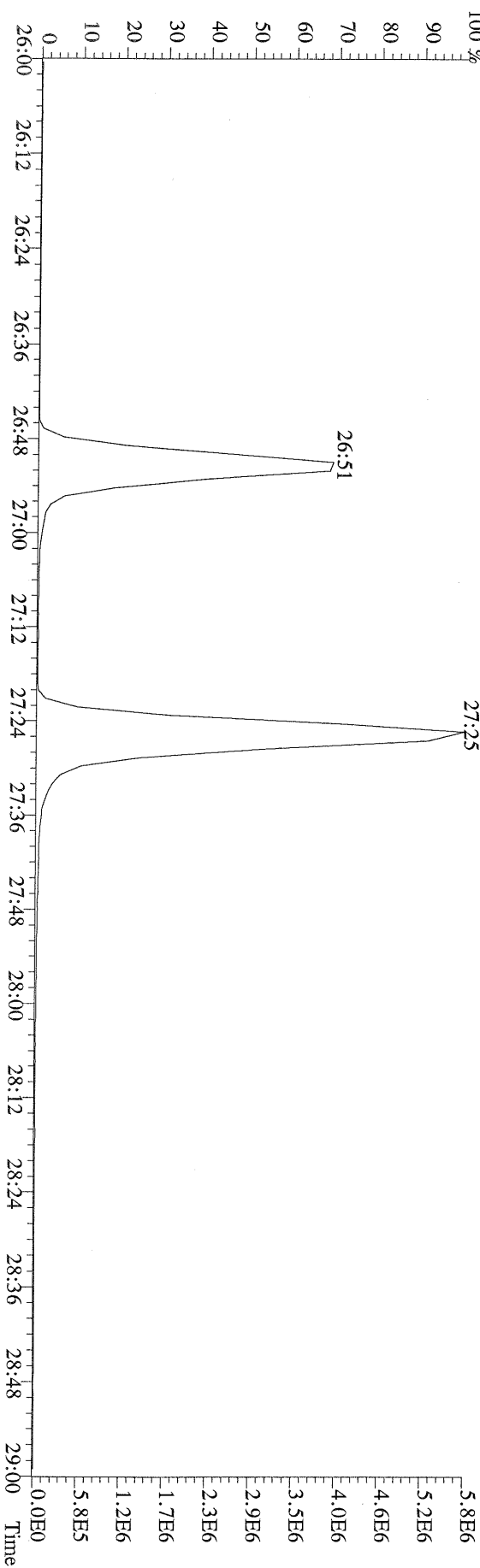
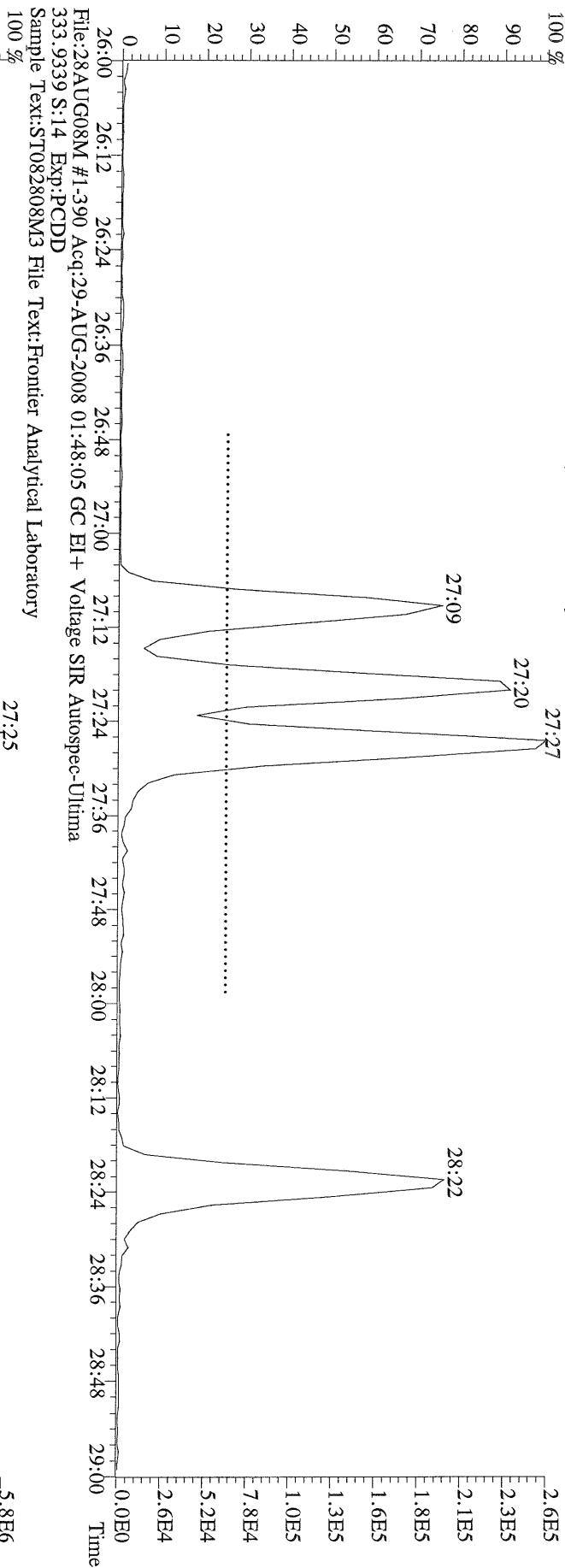




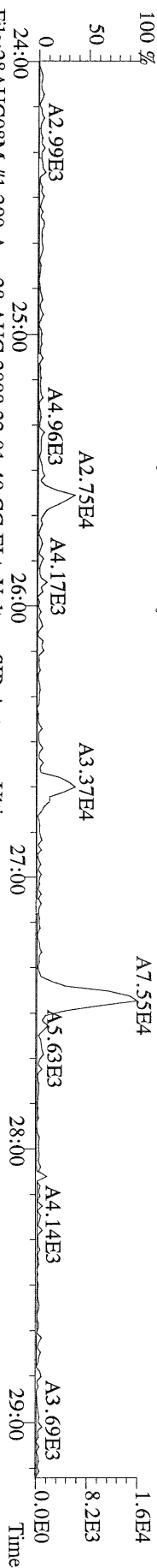




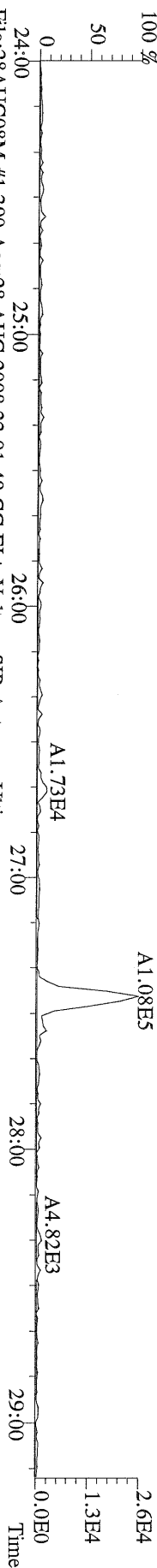
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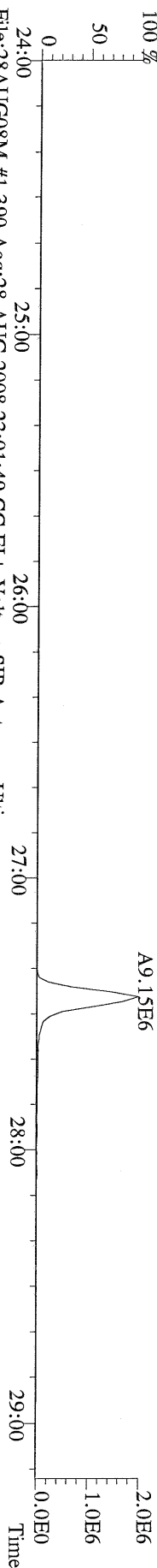
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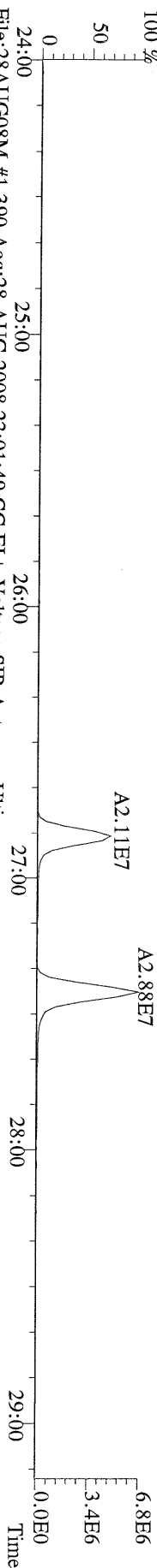
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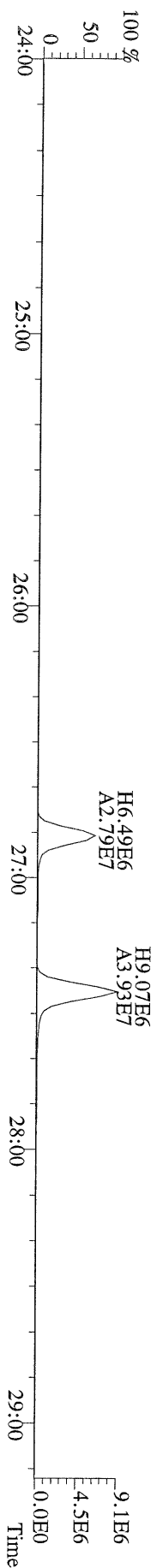
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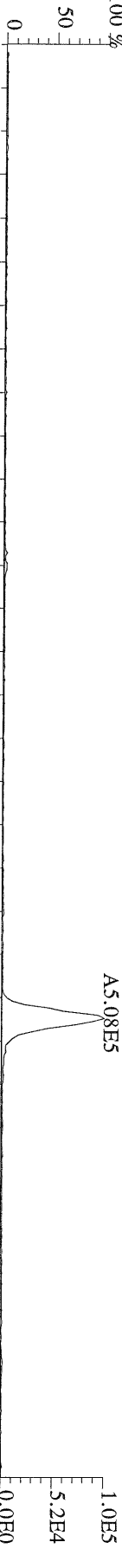
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Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-390 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



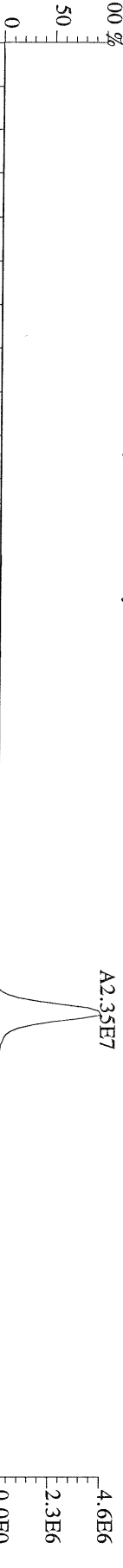
File:28AUG08M #1-425 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Utima
355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-425 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Utima
357.8517 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



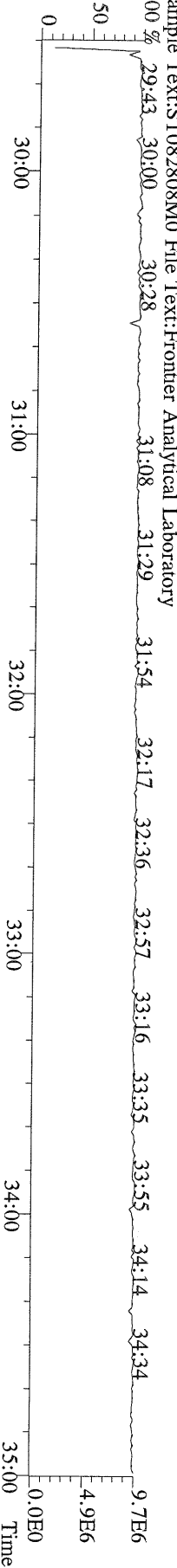
File:28AUG08M #1-425 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Utima
367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



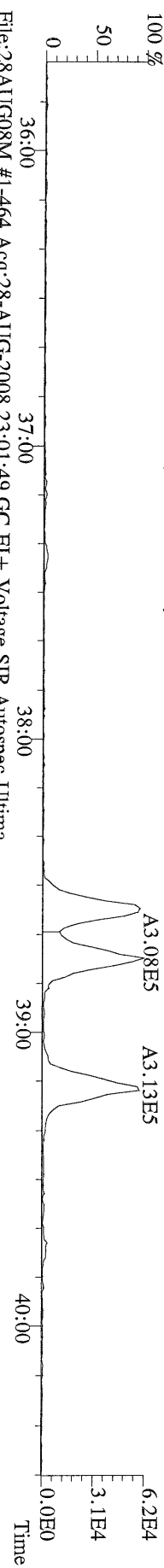
File:28AUG08M #1-425 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Utima
369.8919 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



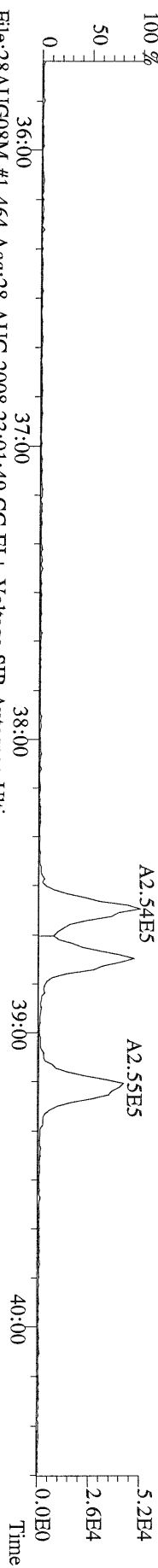
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366.9792 S:11 F:2 Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



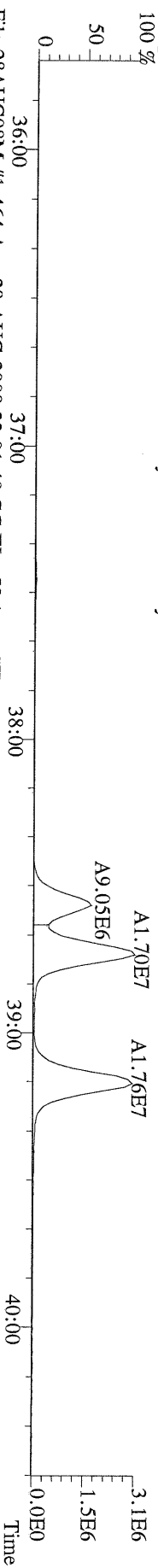
File:28AUG08M #1-464 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



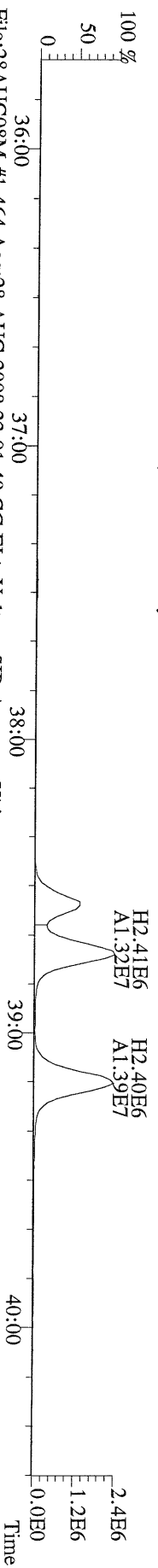
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391.8127 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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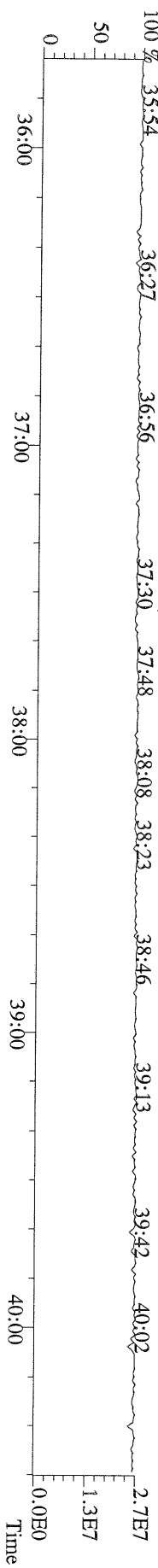
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401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



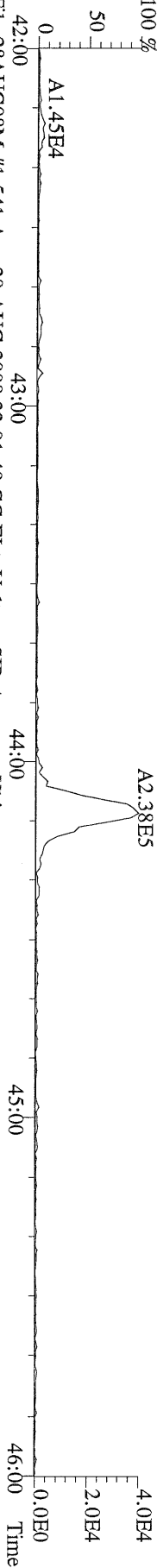
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403.8530 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



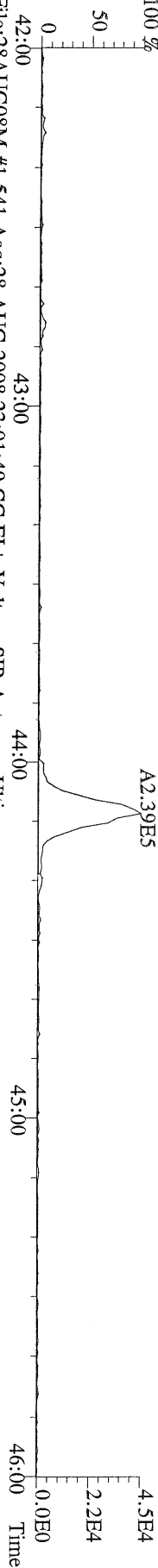
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380.9760 S:11 F:3 Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



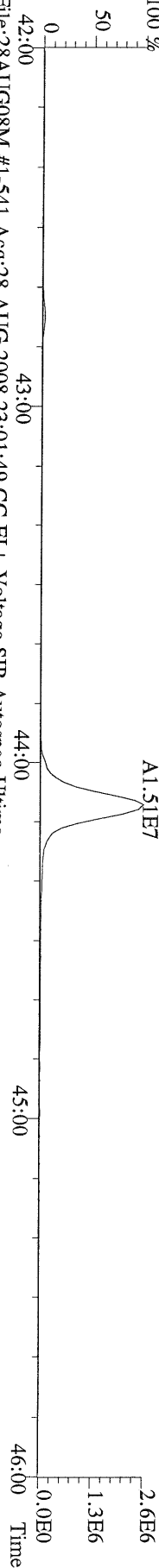
File:28AUG08M #1-541 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



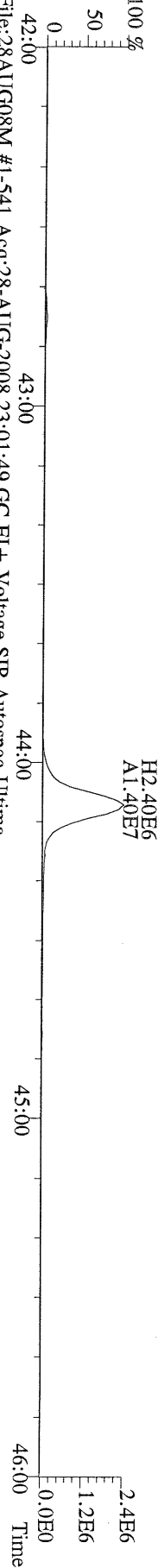
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425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



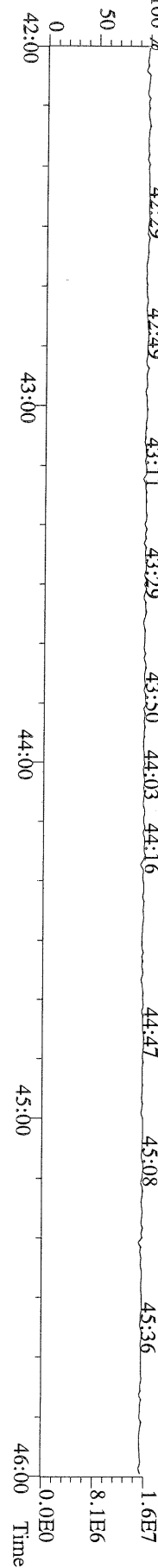
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435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



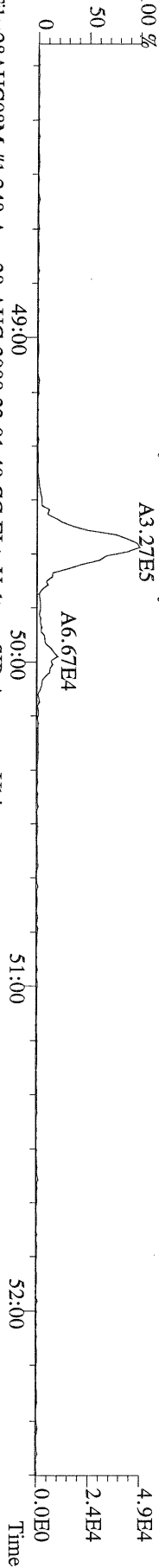
File:28AUG08M #1-541 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



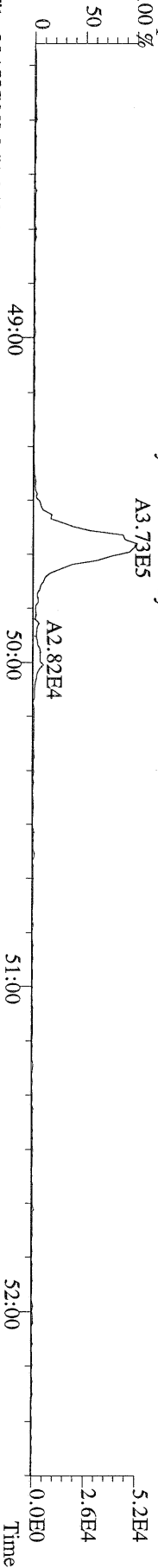
File:28AUG08M #1-541 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:11 F:4 Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



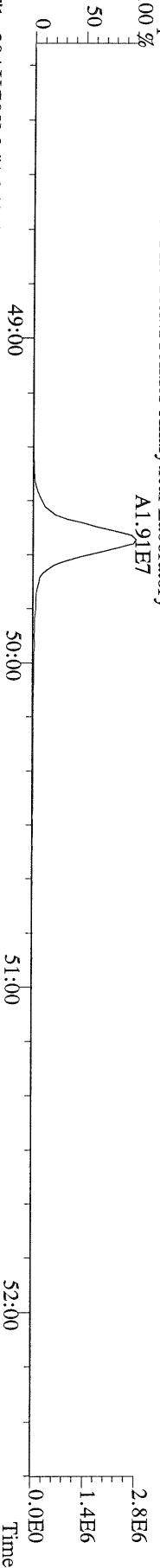
File:28AUG08M #1-348 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory
100 %



File:28AUG08M #1-348 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory
100 %



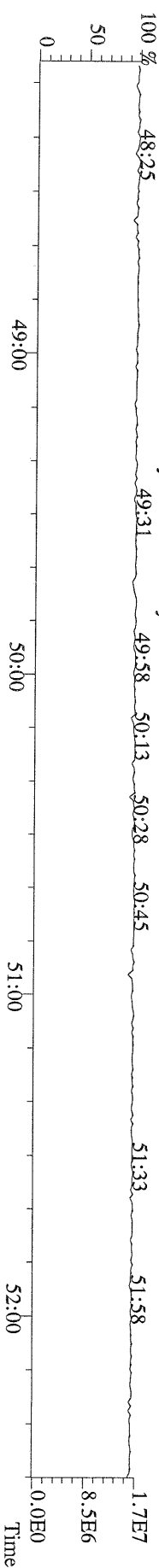
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469.7780 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory
100 %



File:28AUG08M #1-348 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



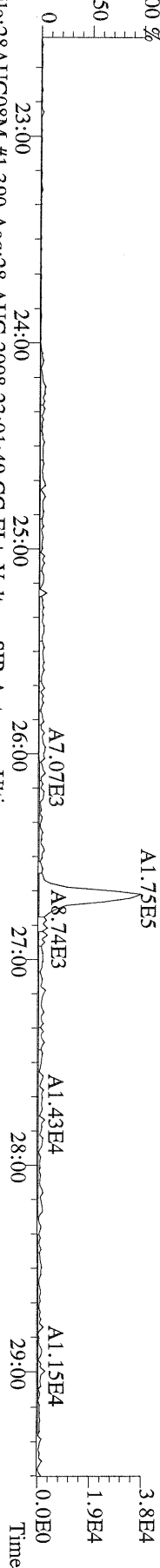
File:28AUG08M #1-348 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:11 F:5 Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



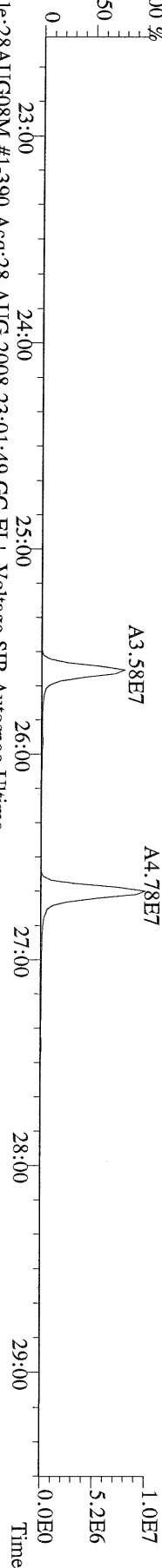
File:28AUG08M #1-390 Acq:28-AUG-2008 23:01:49 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



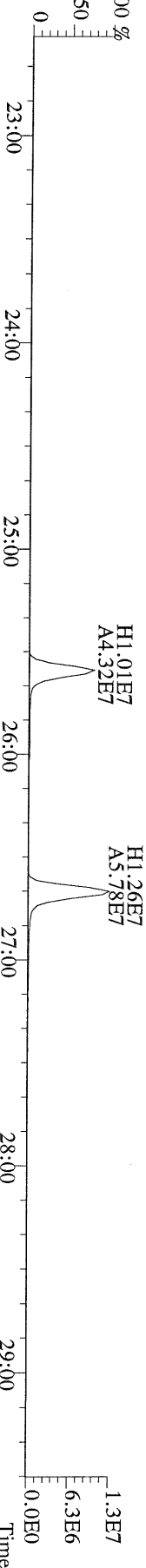
File:28AUG08M #1-390 Acq:28-AUG-2008 23:01:49 GC EI + Voltage SIR Autospec-Ultima
305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



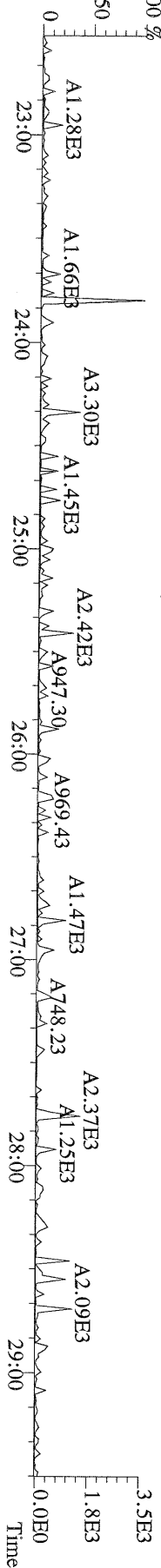
File:28AUG08M #1-390 Acq:28-AUG-2008 23:01:49 GC EI + Voltage SIR Autospec-Ultima
315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



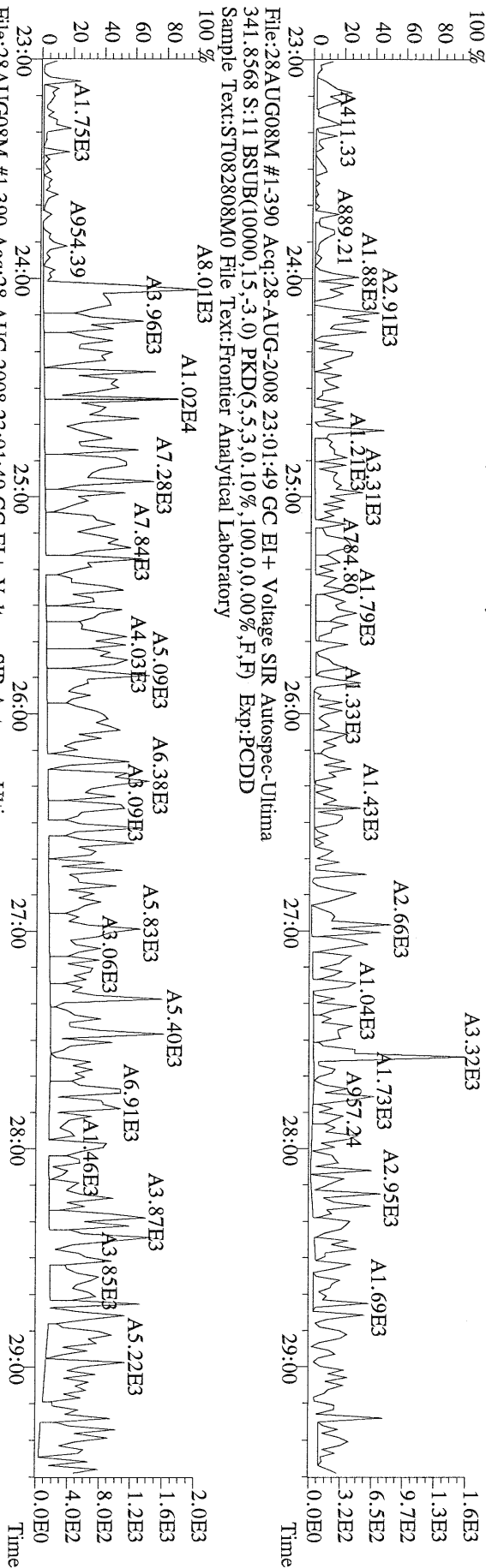
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317.9389 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



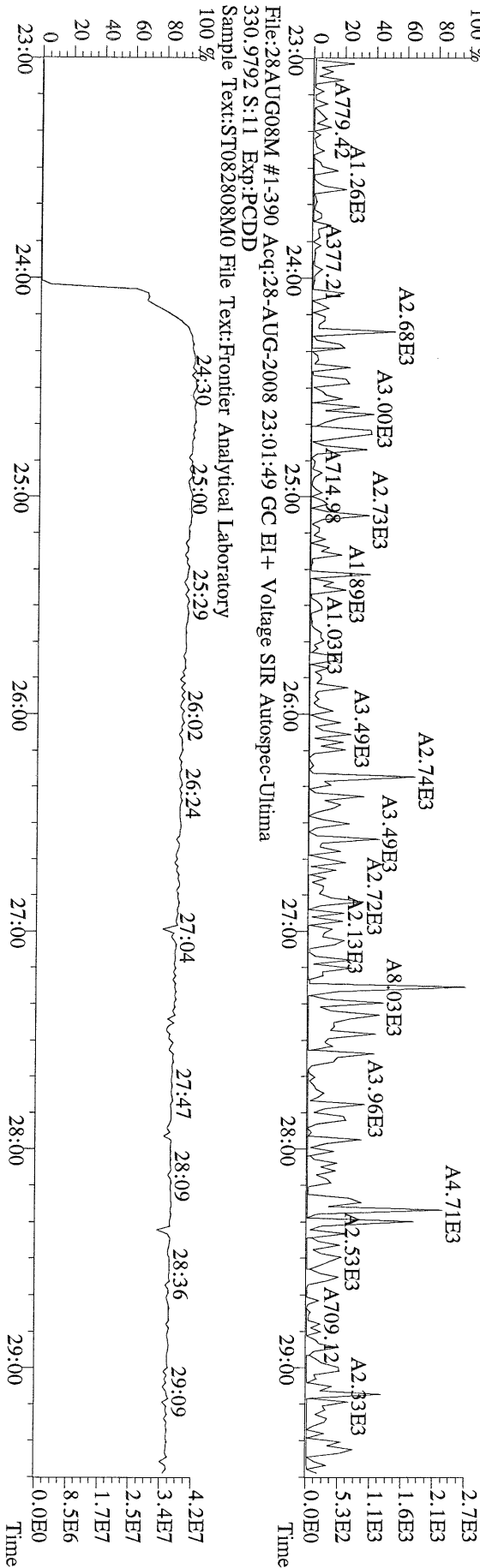
File:28AUG08M #1-390 Acq:28-AUG-2008 23:01:49 GC EI + Voltage SIR Autospec-Ultima
375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



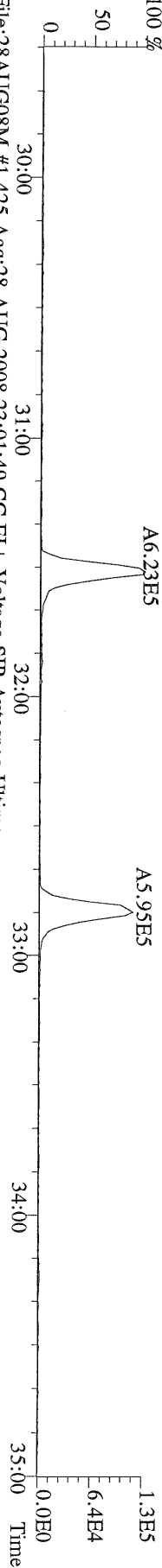
File:28AUG08M #1-390 Acq:28-AUG-2008 23:01:49 GC EI + Voltage SIR Autospec-Utima
339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



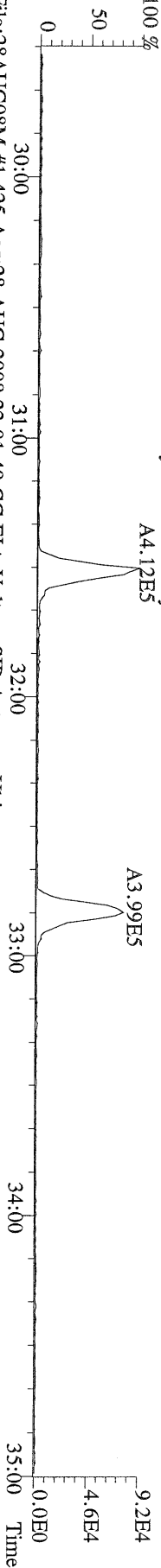
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409.7974 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



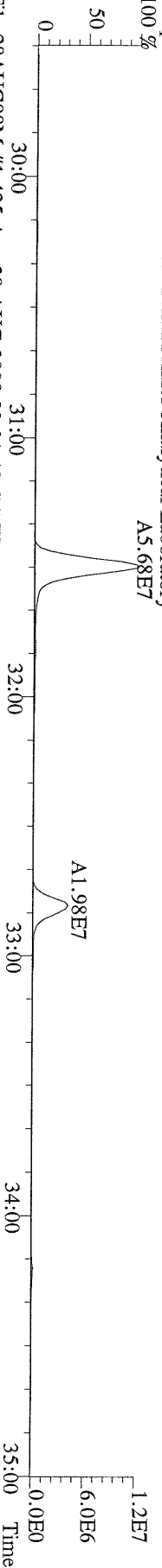
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339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



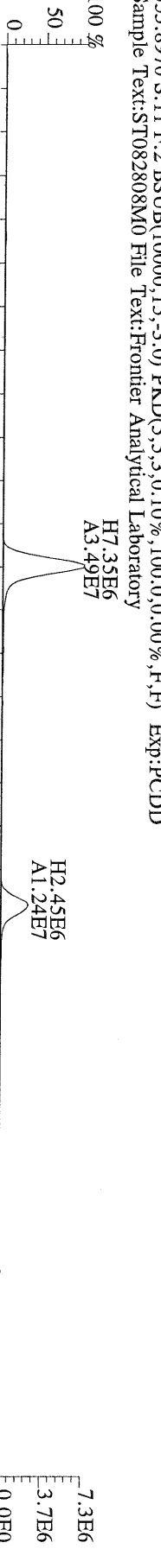
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341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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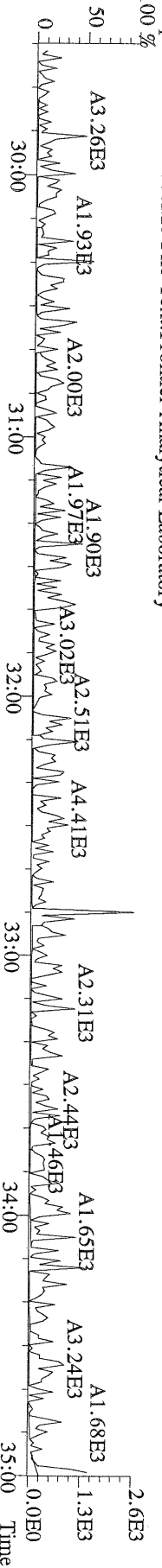
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351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



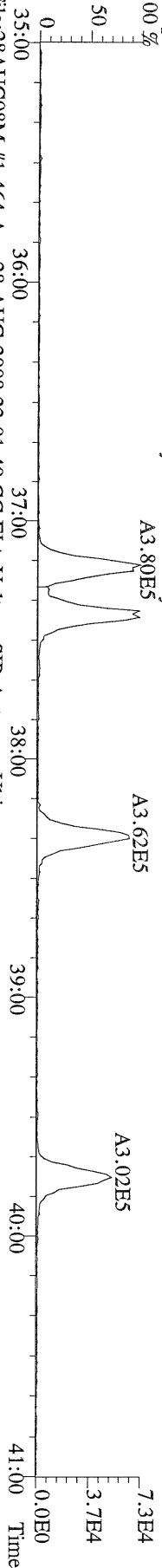
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353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



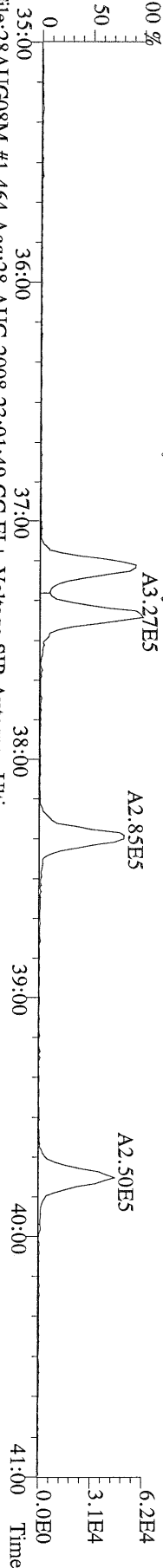
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409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



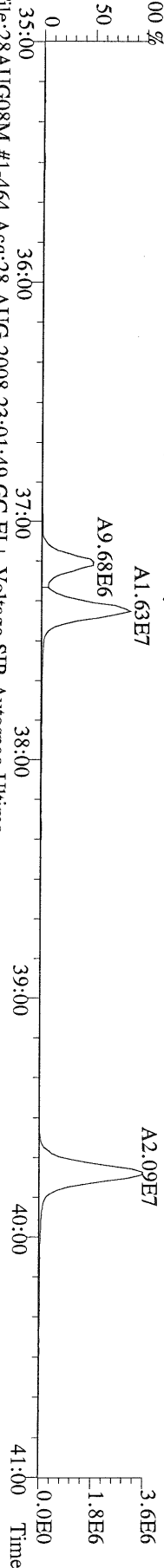
File:28AUG08M #1-464 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



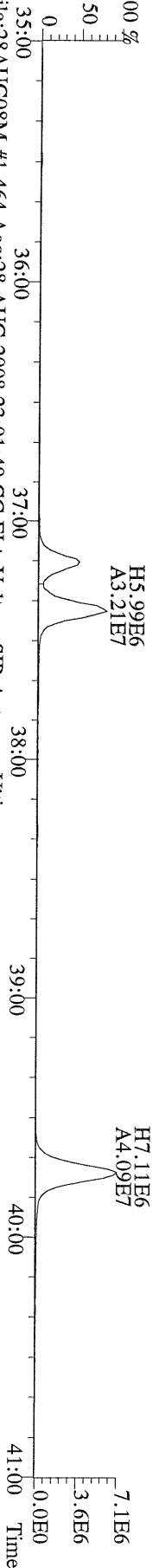
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375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



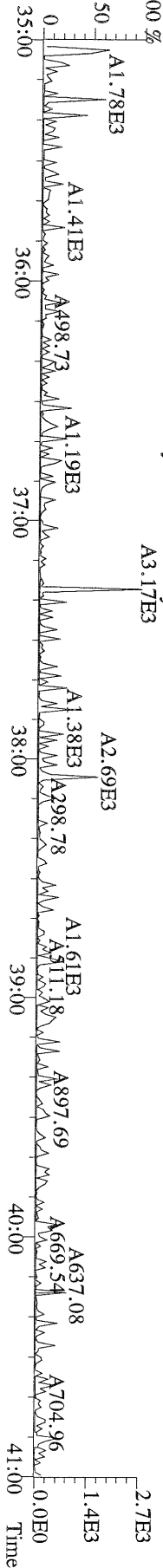
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383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



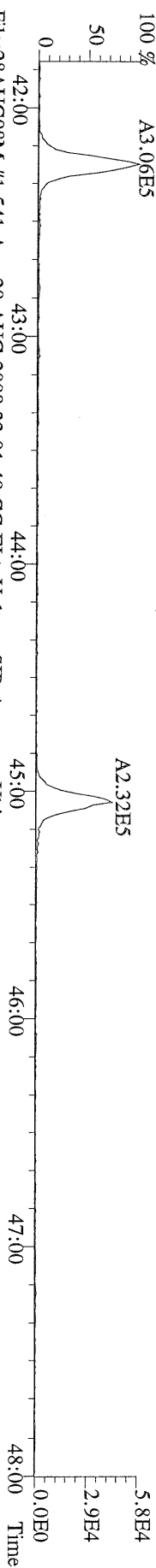
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385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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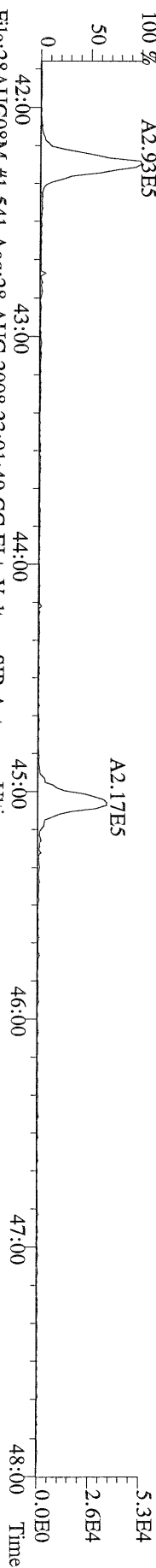
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445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



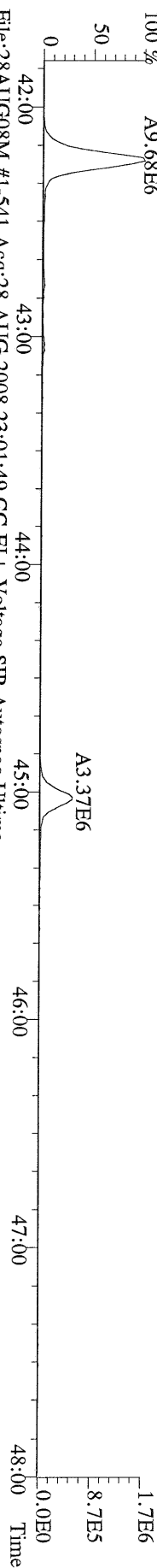
File:28AUG08M #1-541 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



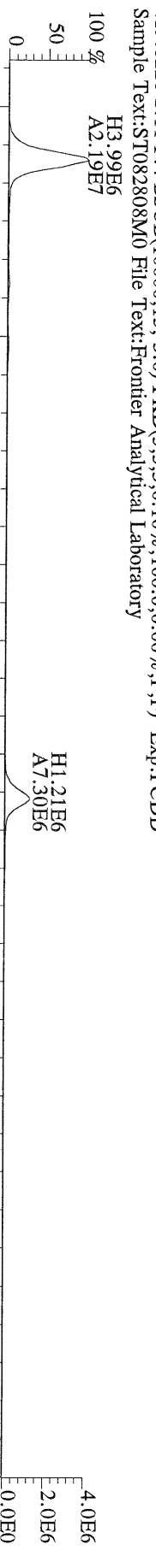
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417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



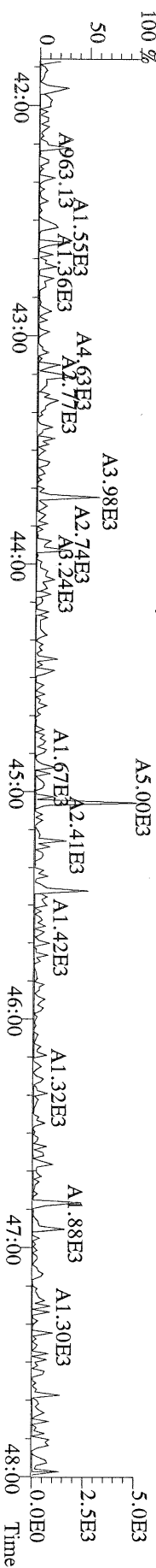
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419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



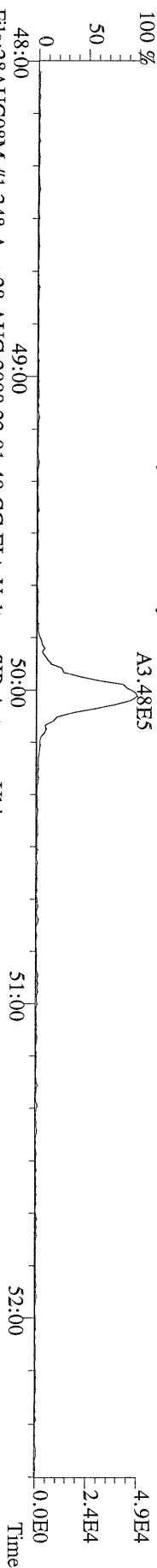
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419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



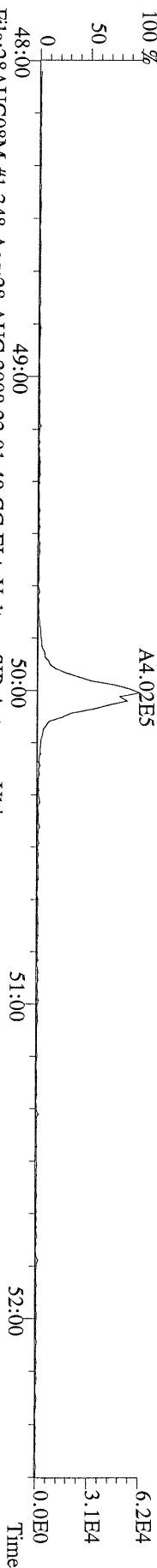
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479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



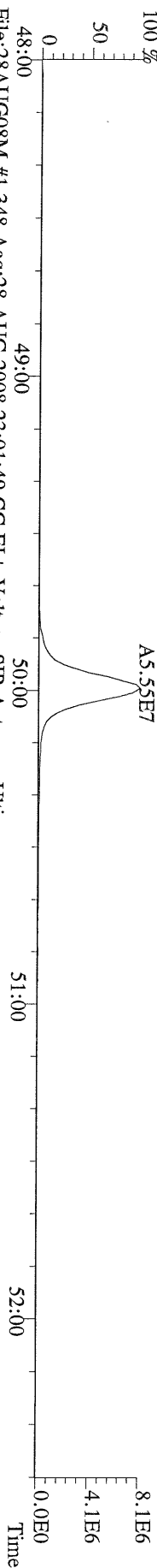
File:28AUG08M #1-348 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



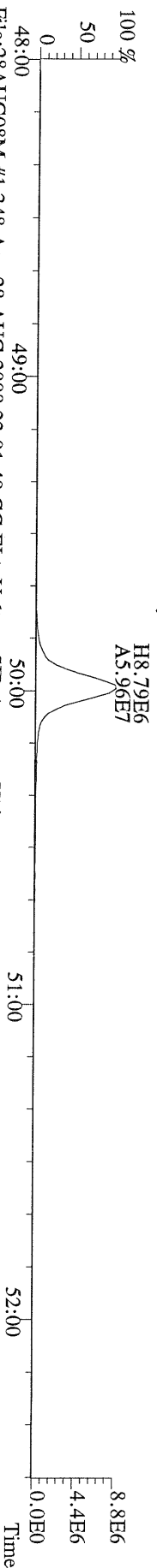
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443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



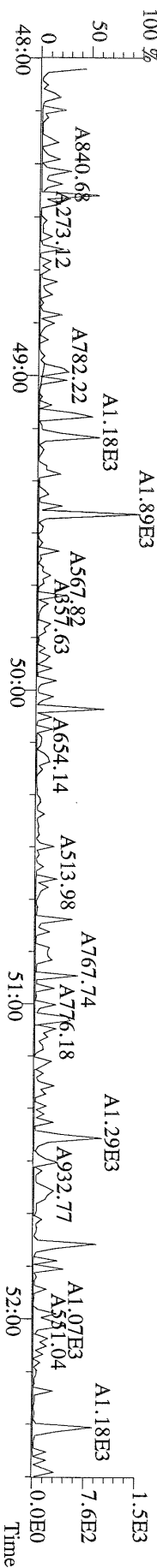
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453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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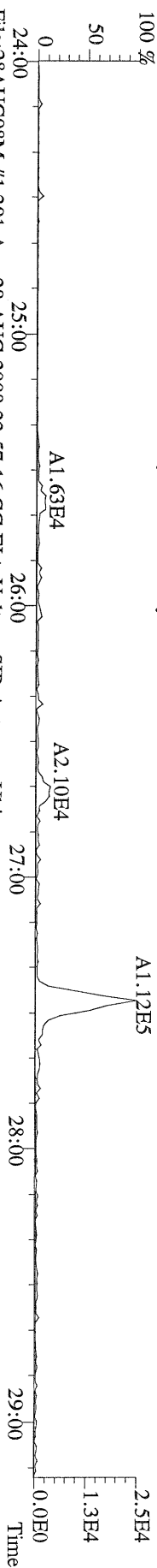
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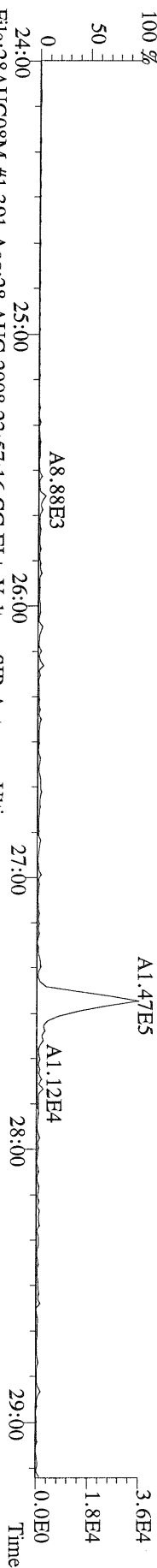
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513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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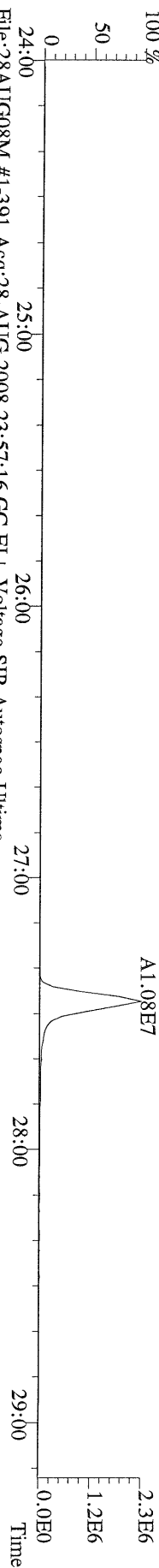
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319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



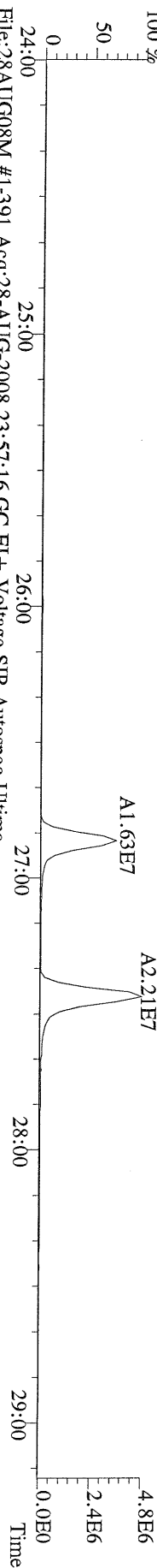
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321.8936 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



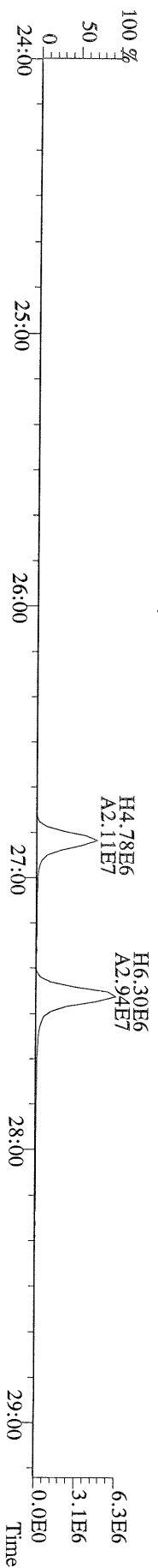
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327.8847 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



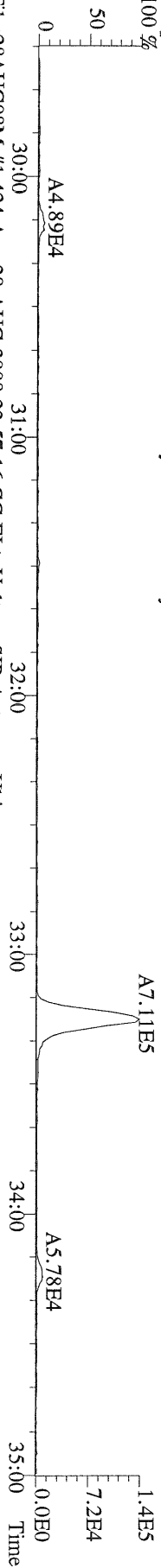
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



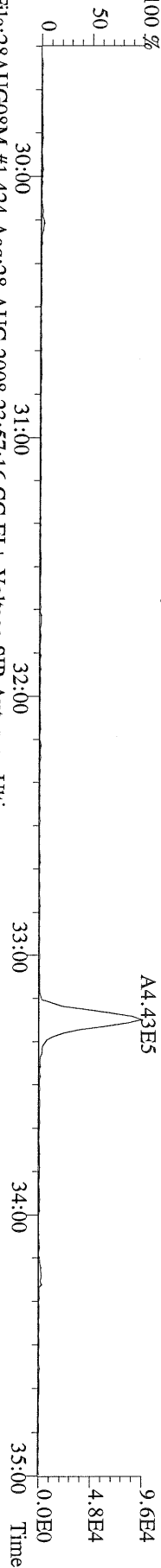
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



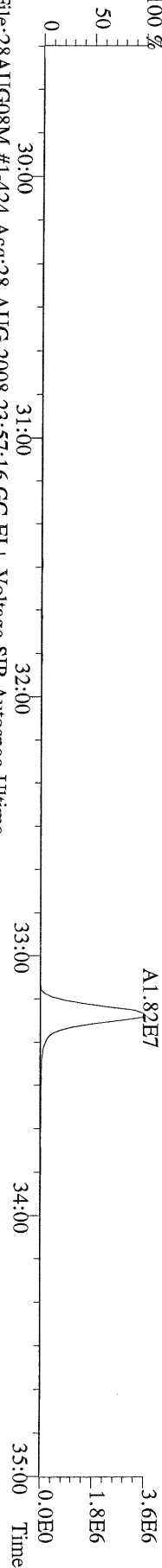
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355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



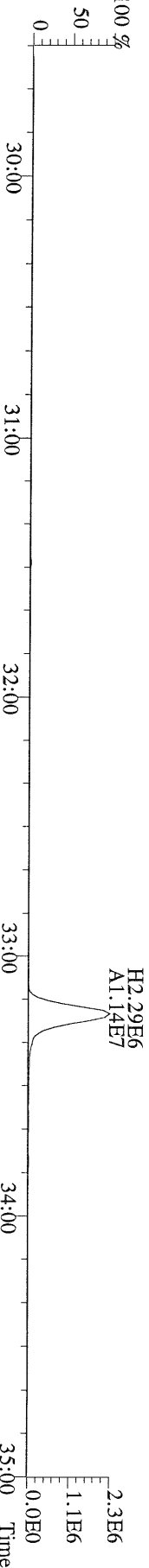
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357.8517 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



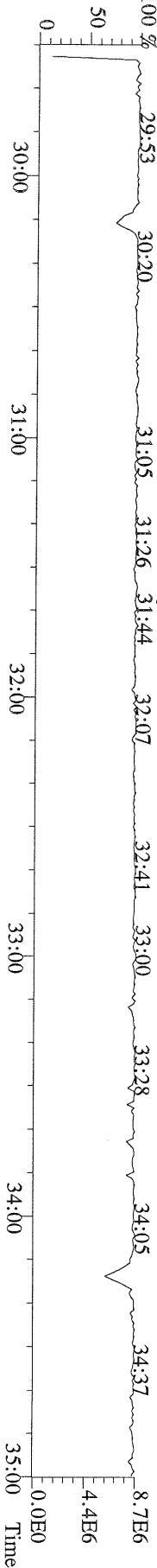
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367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



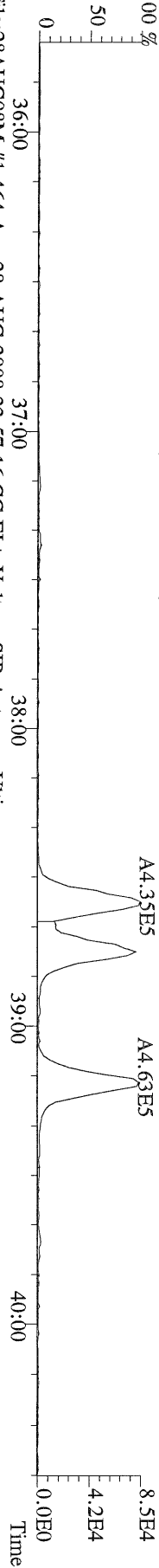
File:28AUG08M #1-424 Acq:28-AUG-2008 23:57:16 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



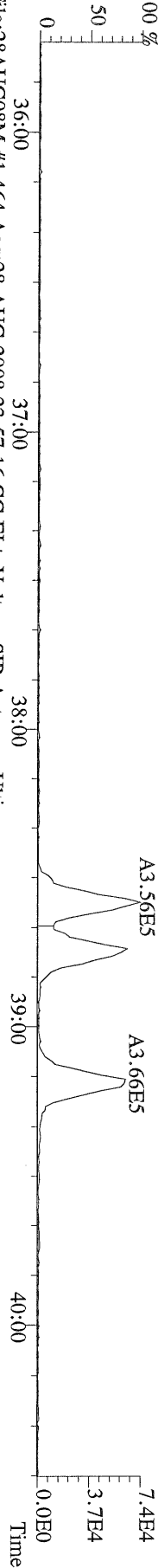
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366.9792 S:12 F:2 Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



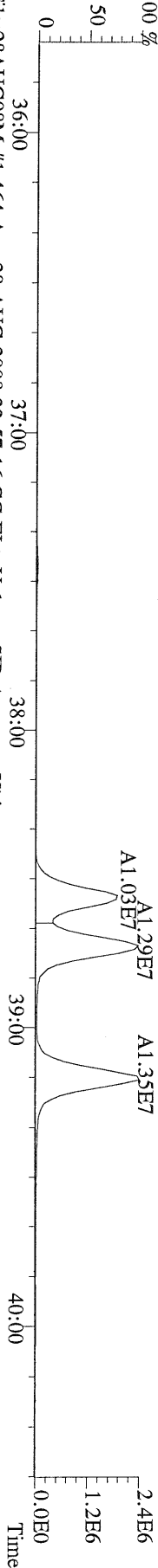
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389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



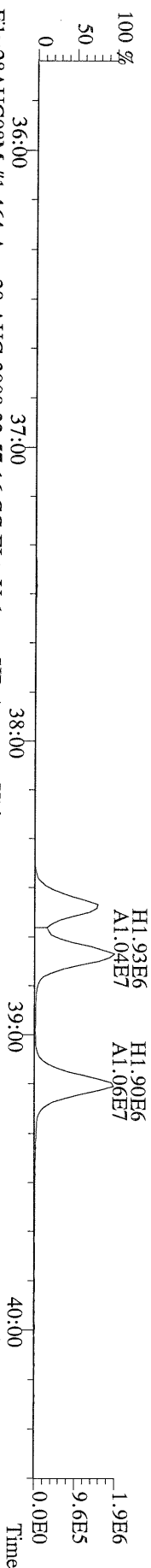
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



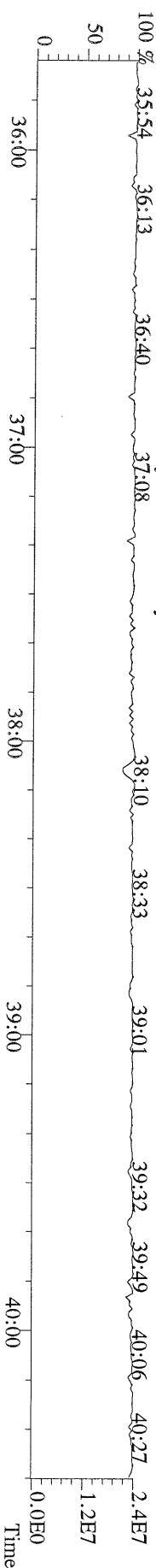
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401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



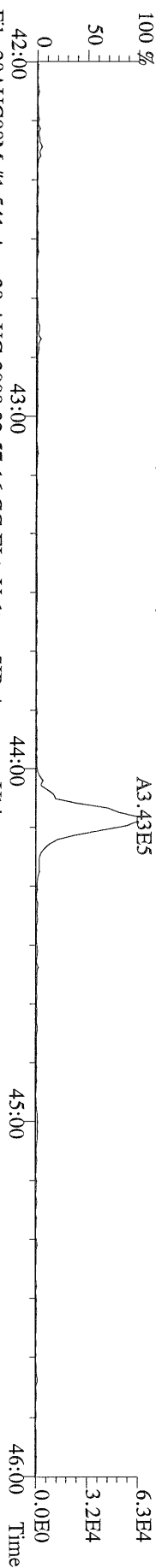
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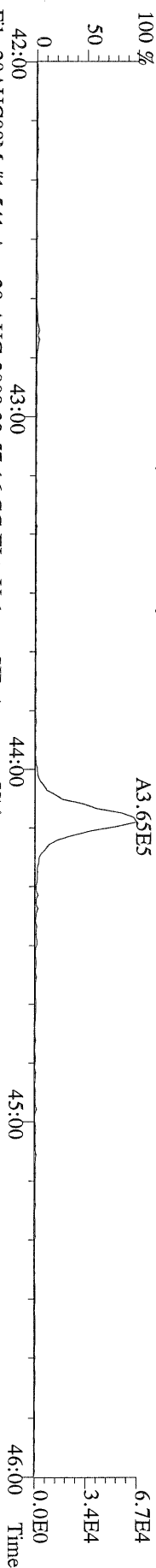
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380.9760 S:12 F:3 Exp:PCDD
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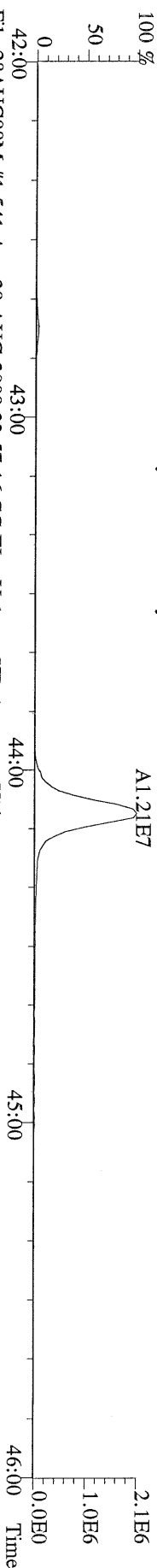
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423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



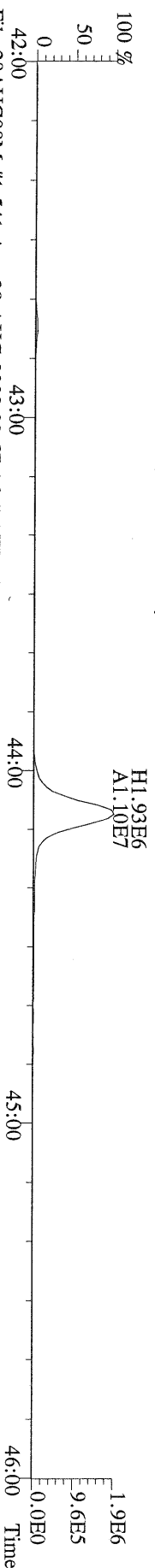
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425.7737 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



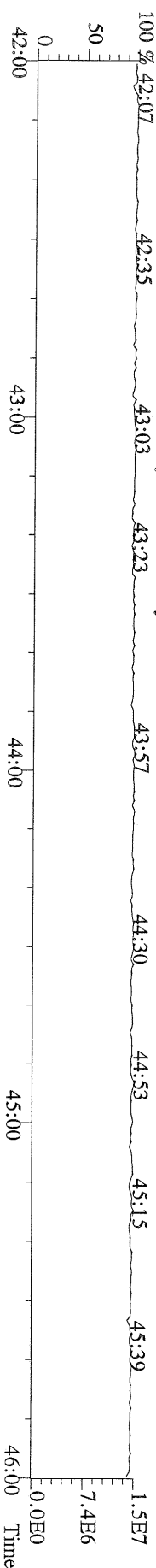
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



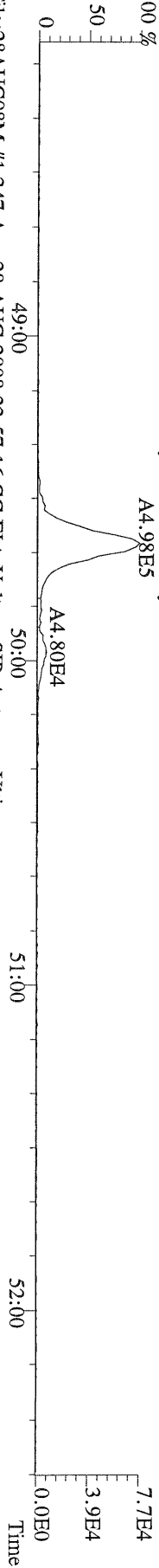
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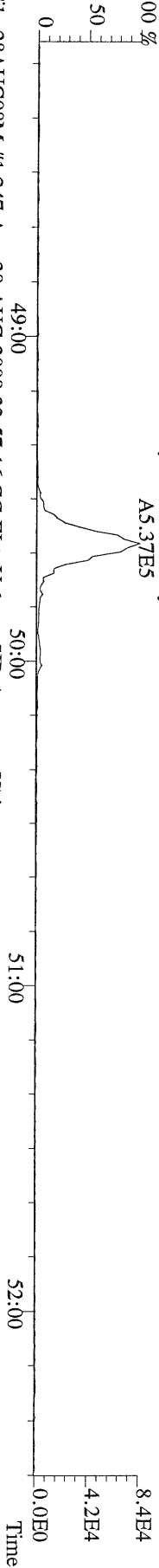
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430.9728 S:12 F:4 Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



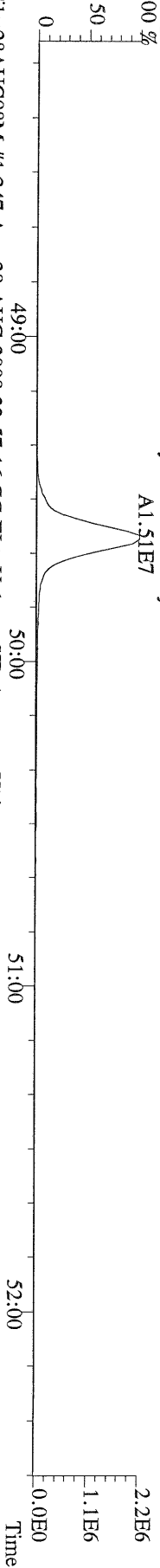
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457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



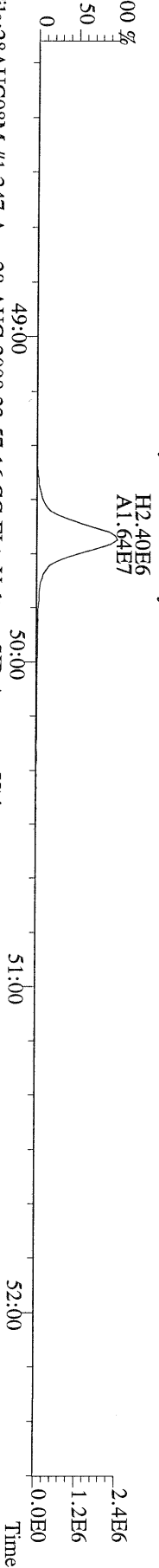
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459.7348 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-347 Acq:28-AUG-2008 23:57:16 GC EI + Voltage SIR Autospec-Ultima
469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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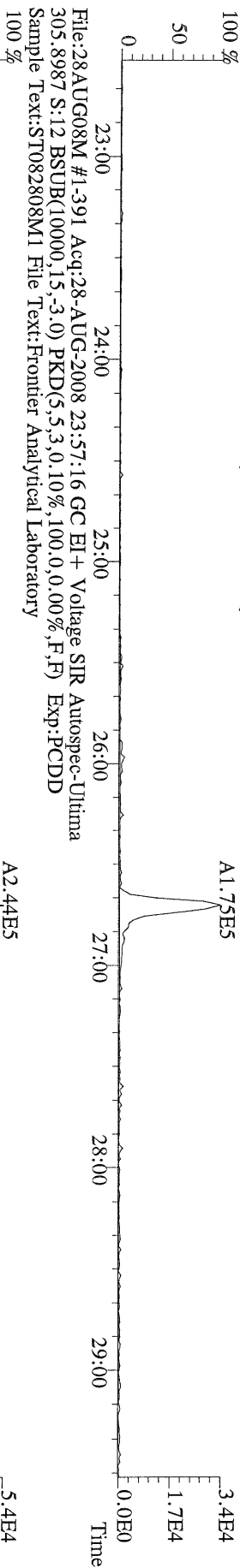
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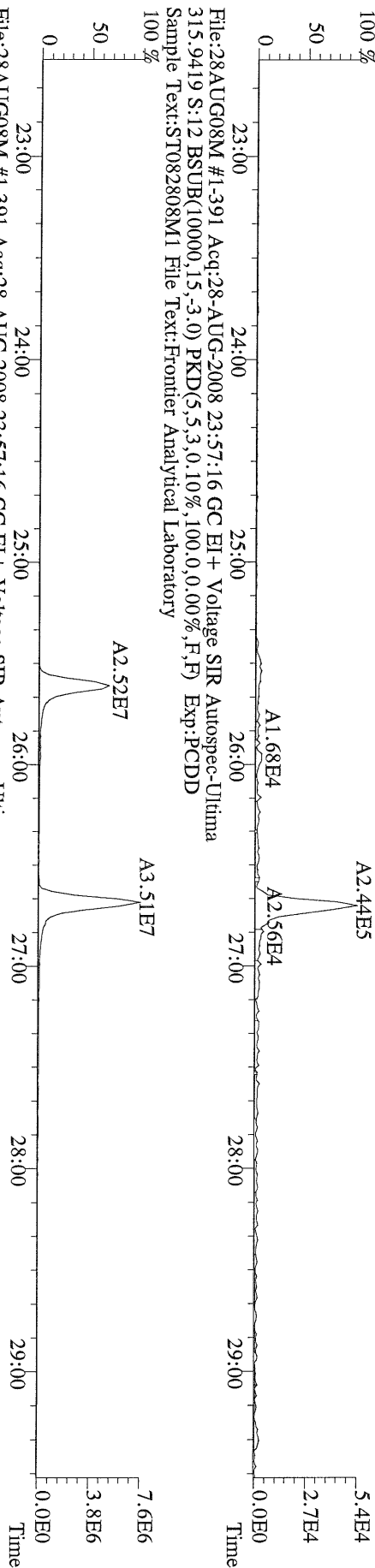
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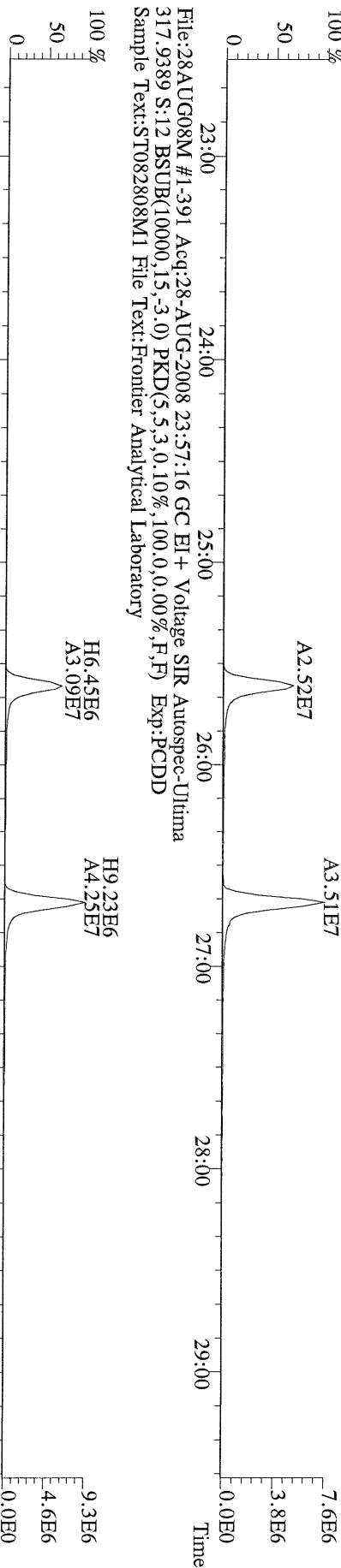
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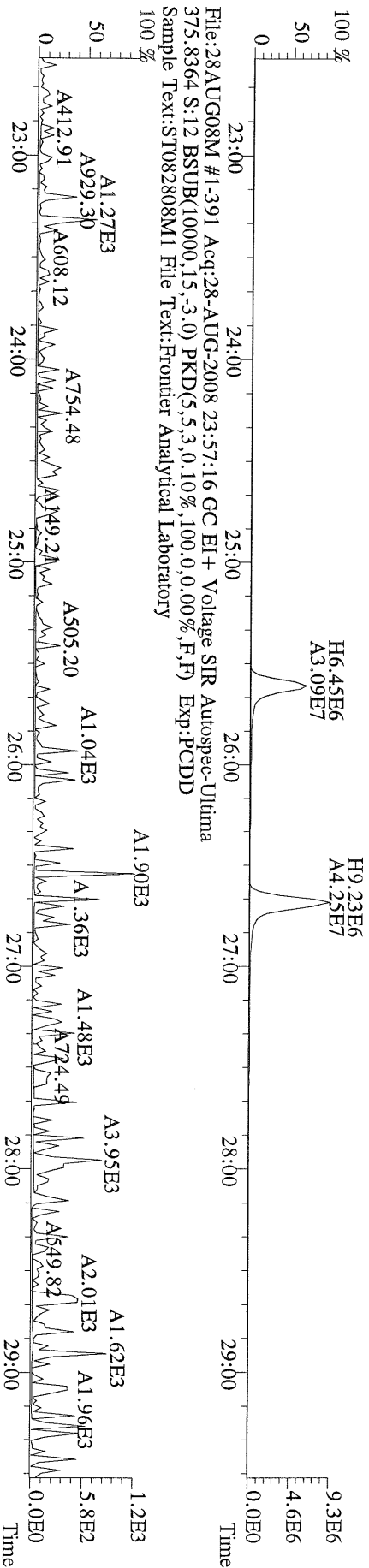
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305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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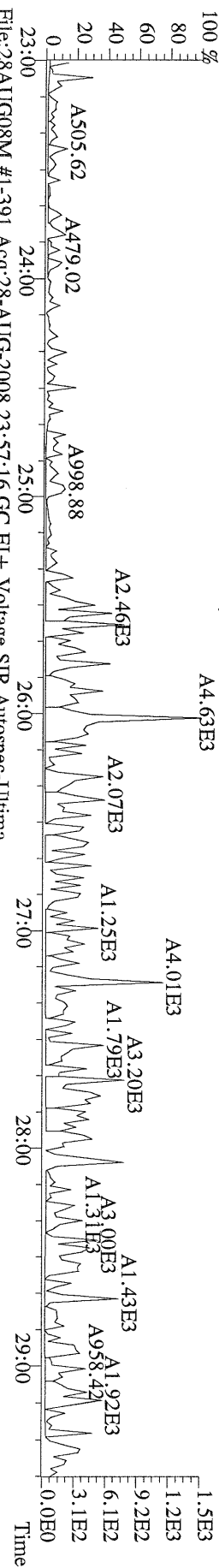
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315.9419 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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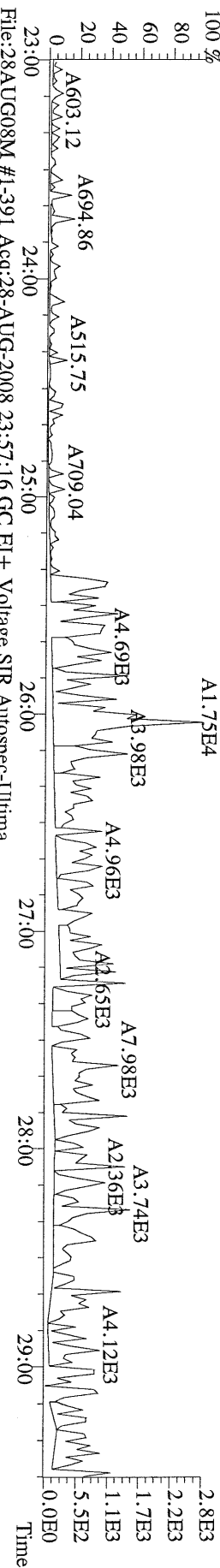
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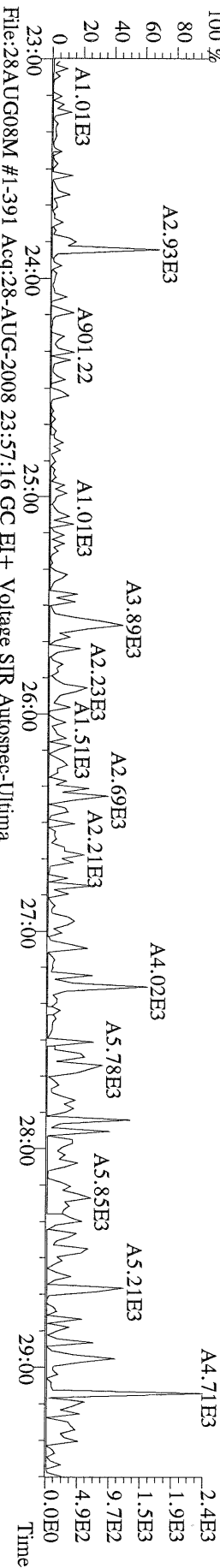
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339.8597 S:12 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



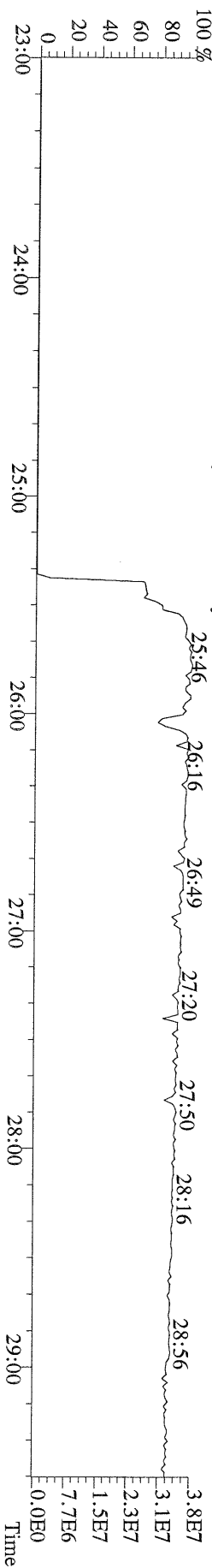
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341.8568 S:12 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



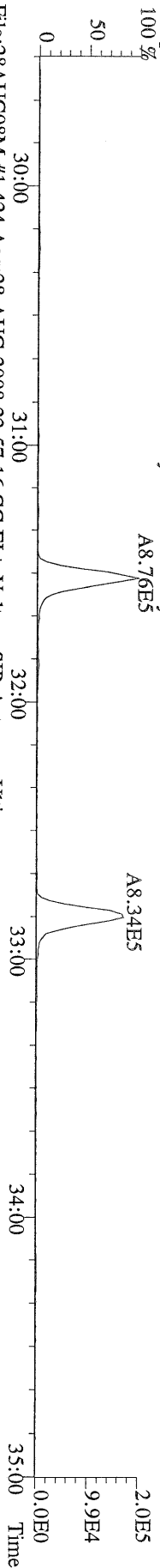
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409.7974 S:12 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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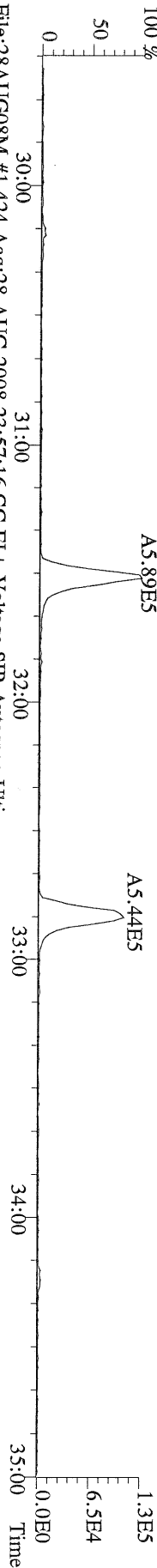
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



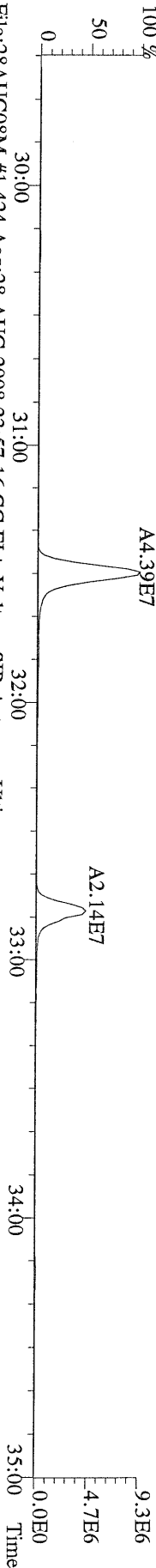
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



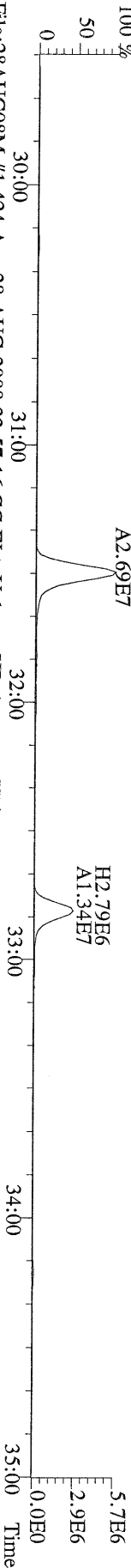
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341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



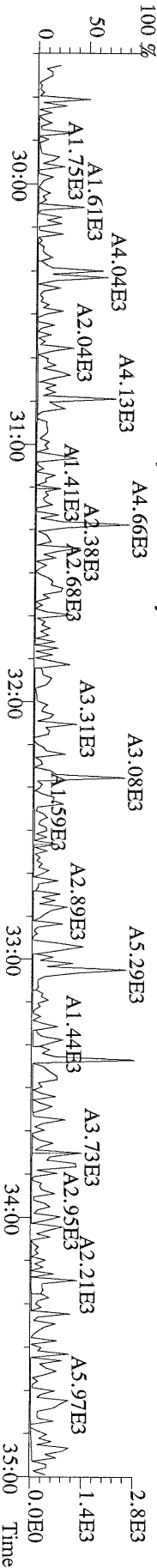
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351.9000 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



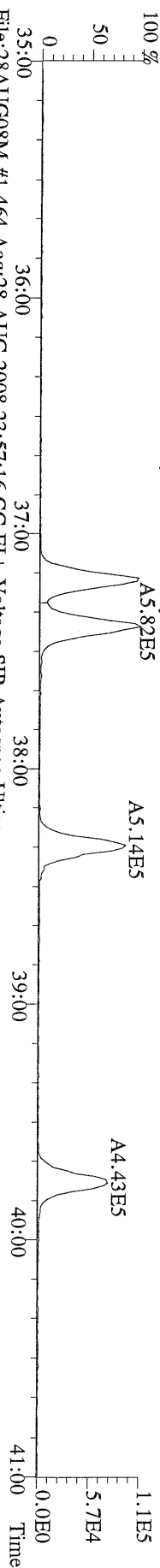
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



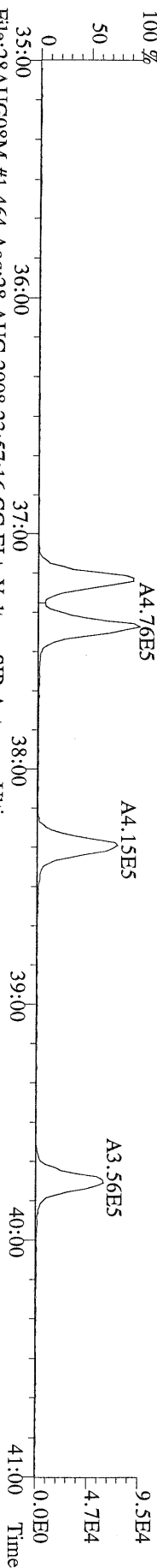
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409.7974 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
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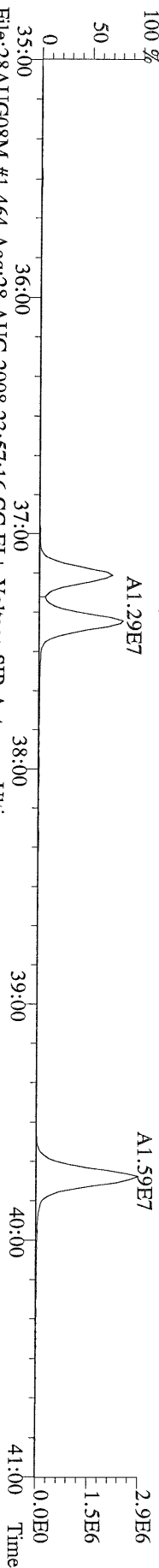
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373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



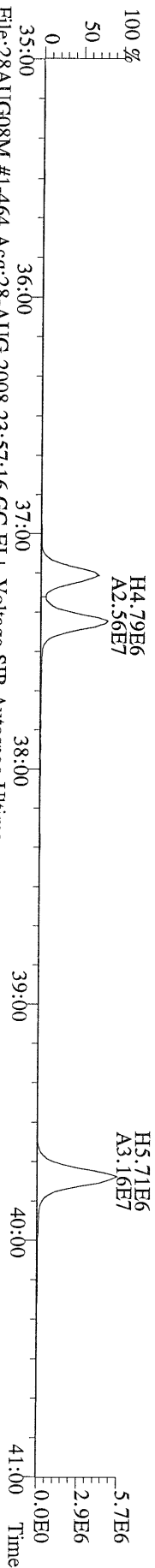
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375.8178 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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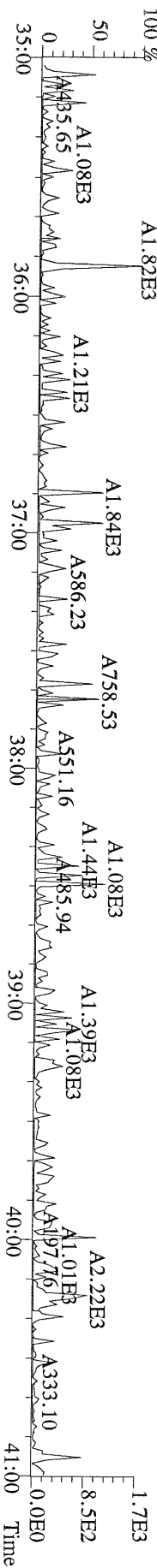
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383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



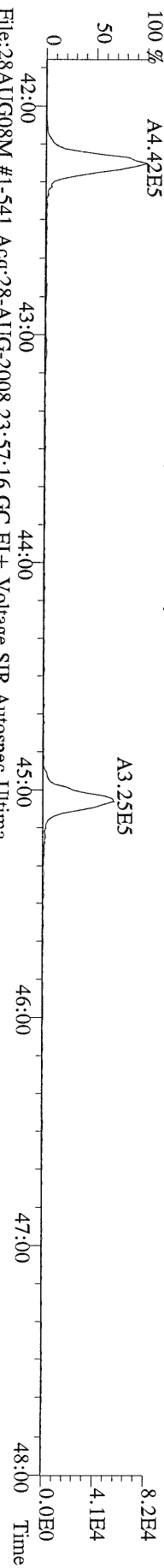
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



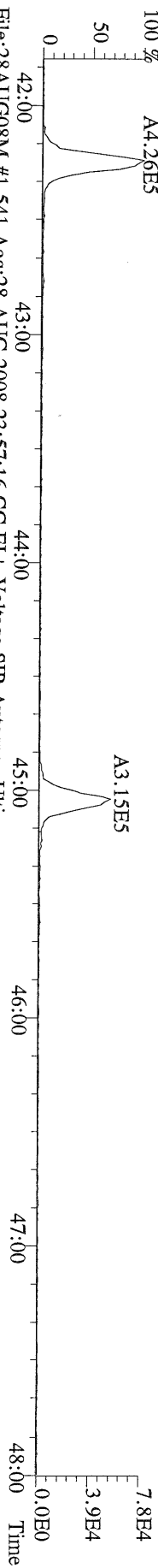
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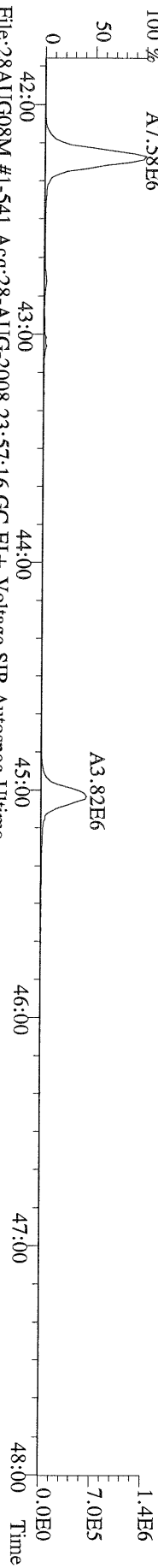
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407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



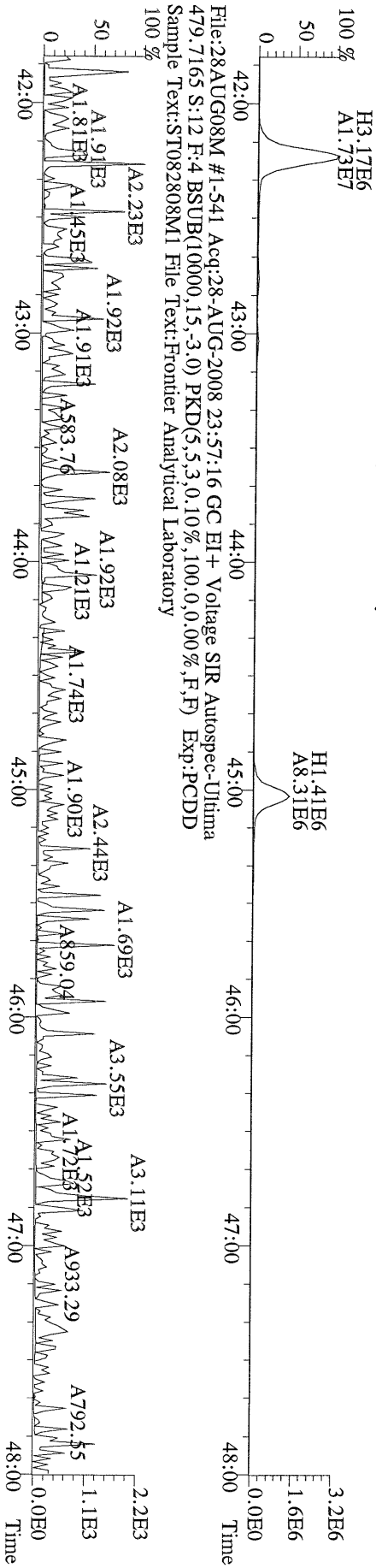
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417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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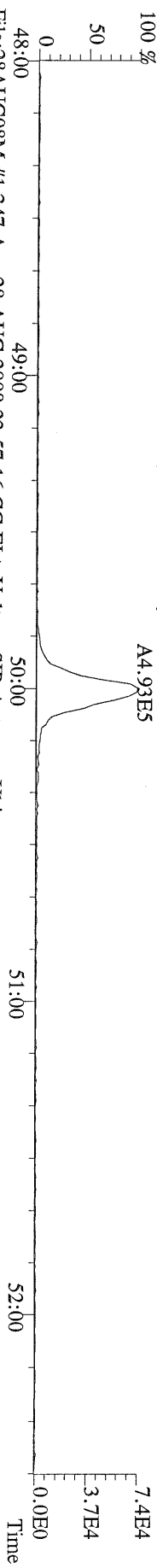
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419.8220 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-541 Acq:28-AUG-2008 23:57:16 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:ST082808M1 File Text:Frontier Analytical Laboratory



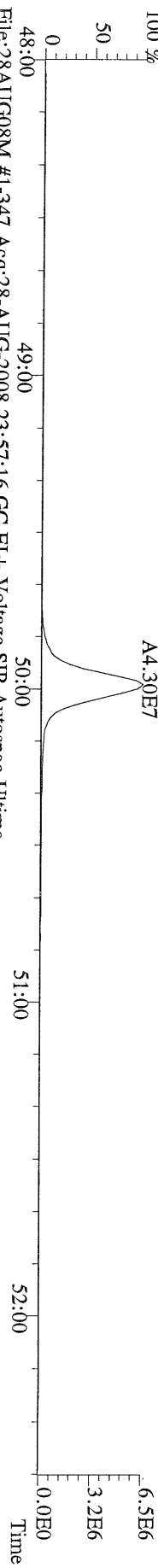
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441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



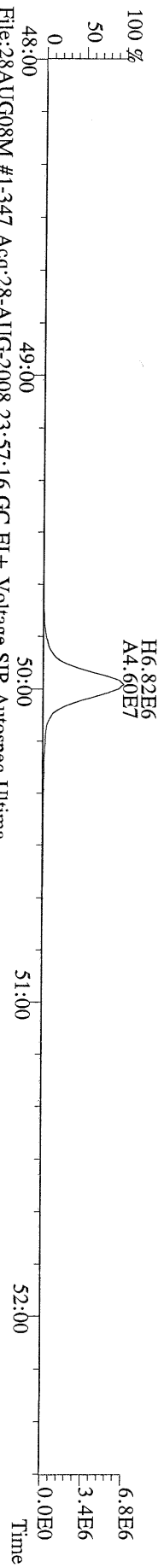
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443.7398 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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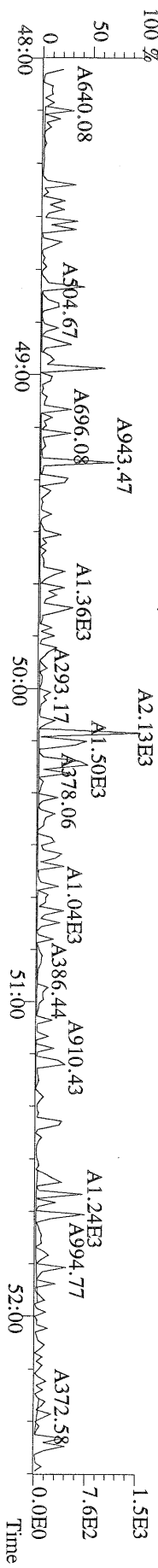
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



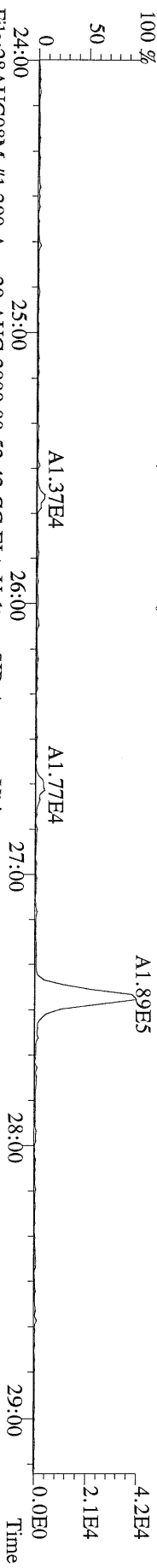
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



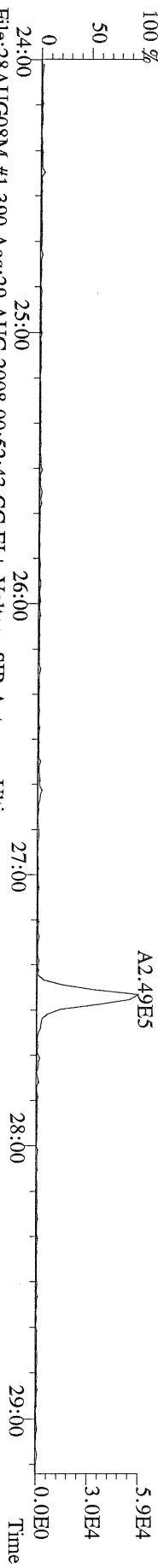
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513.6775 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



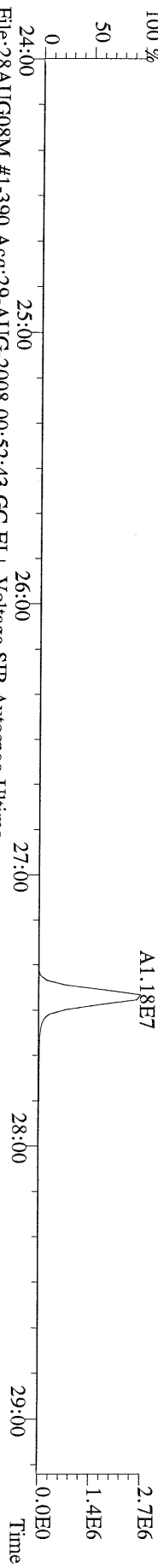
File:28AUG08M #1-390 Acq:29-AUG-2008 00:52:43 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



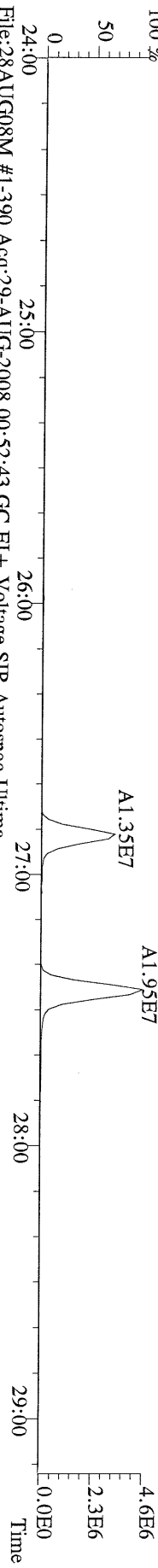
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321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



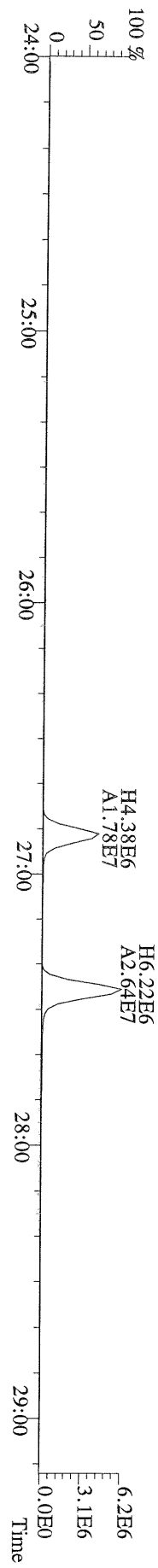
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327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



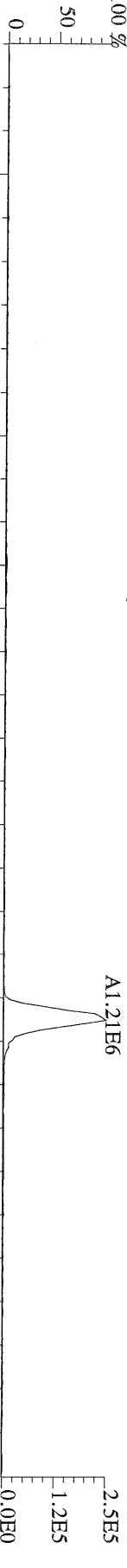
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331.9368 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



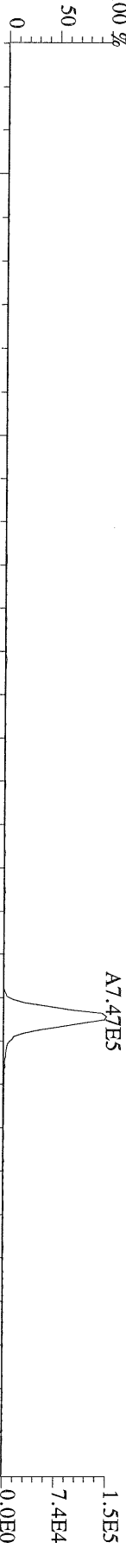
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333.9339 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



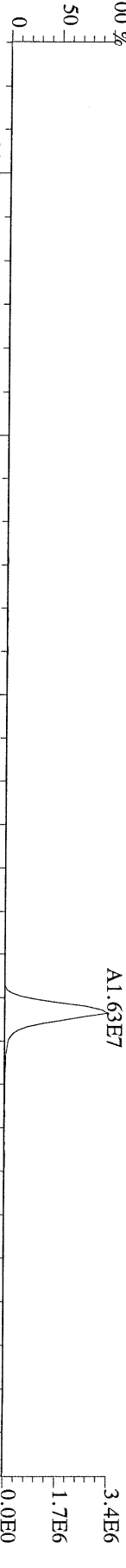
File:28AUG08M #1-425 Acq:29-AUG-2008 00:52:43 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-425 Acq:29-AUG-2008 00:52:43 GC EI+ Voltage SIR Autospec-Ultima
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:ST082808M2 File Text:Frontier Analytical Laboratory



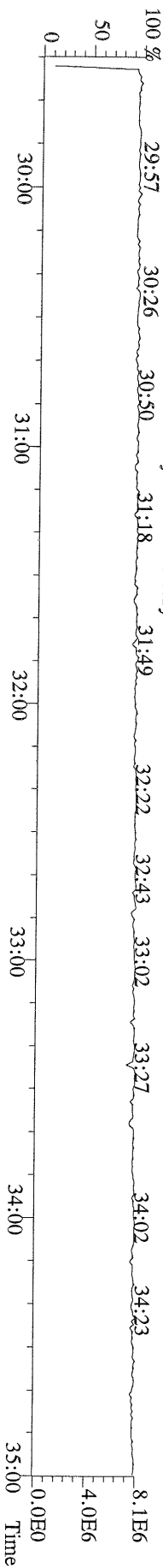
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367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



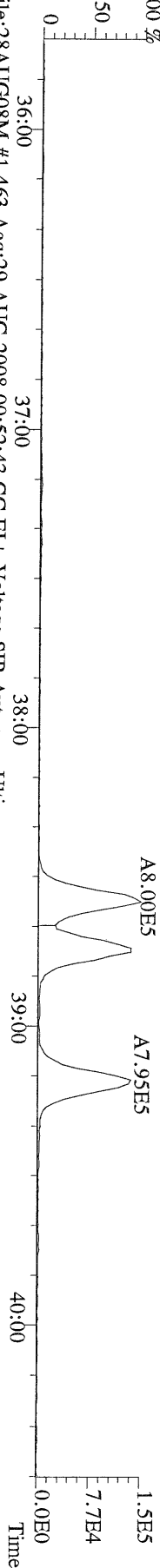
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369.8919 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-425 Acq:29-AUG-2008 00:52:43 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:13 F:2 Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



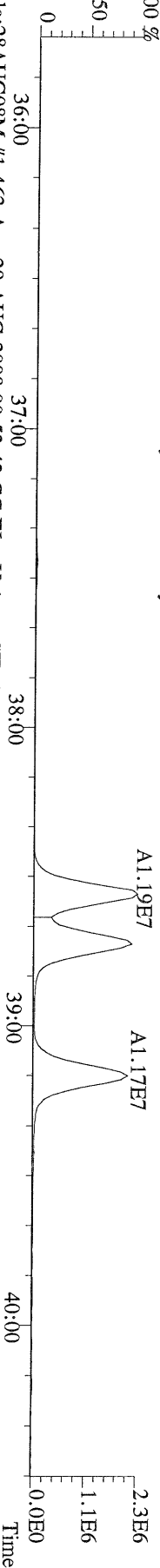
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389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



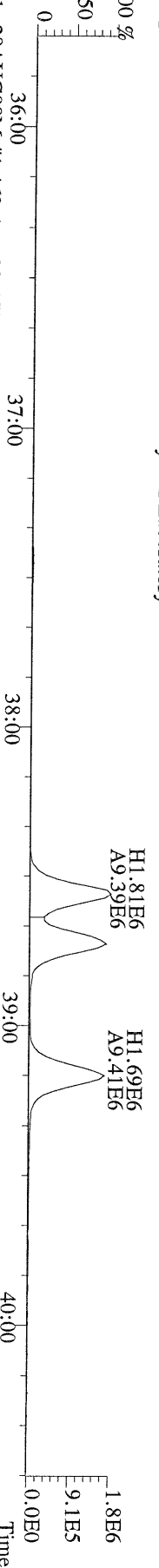
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391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



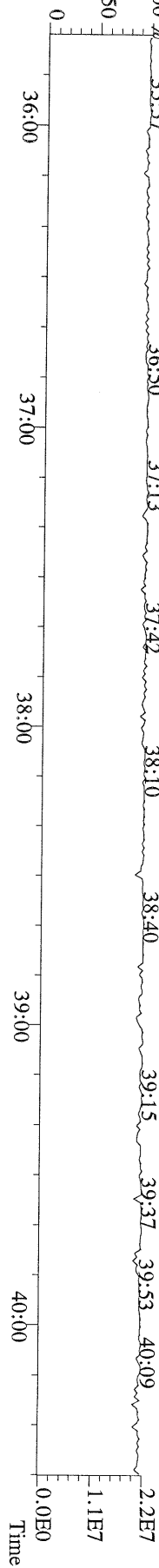
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401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



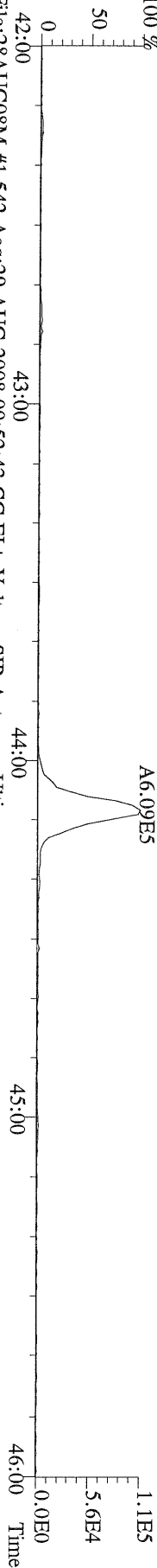
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403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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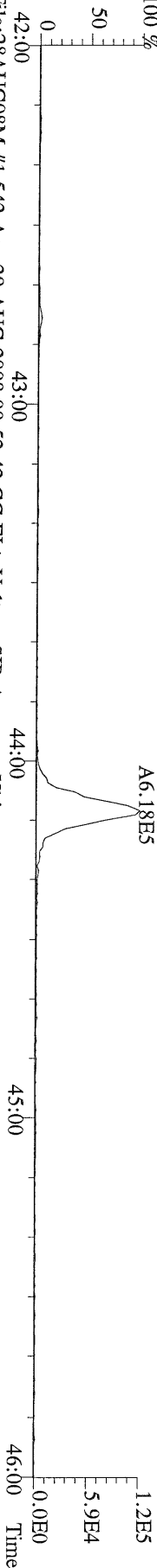
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380.9760 S:13 F:3 Exp:PCDD
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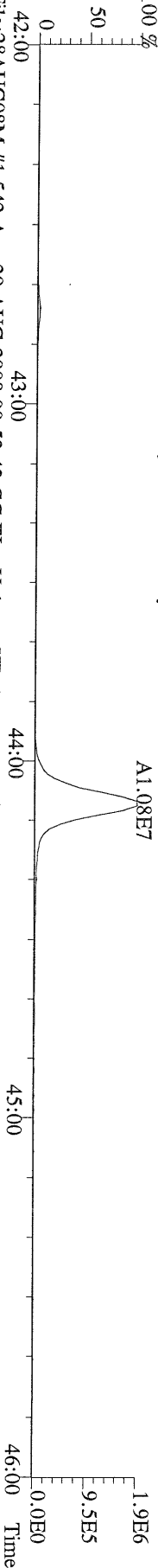
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423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



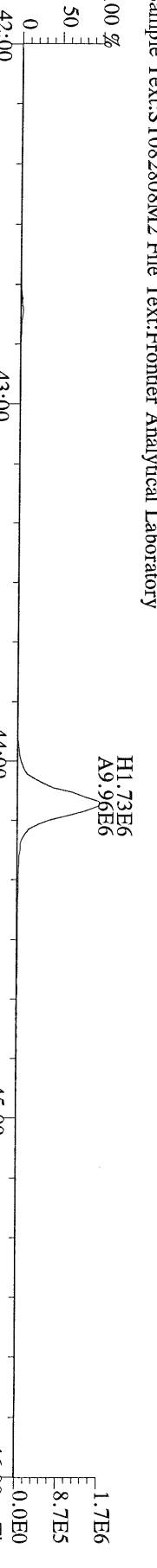
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425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



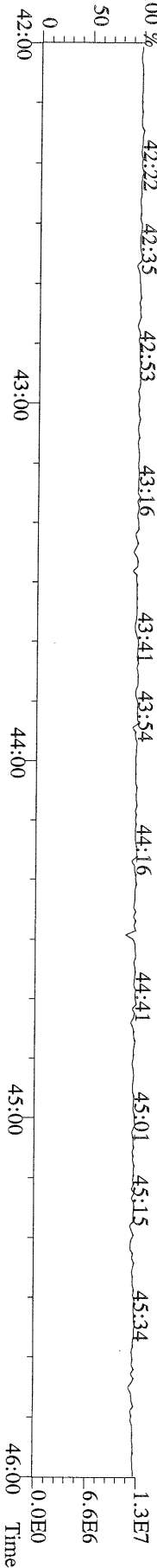
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435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



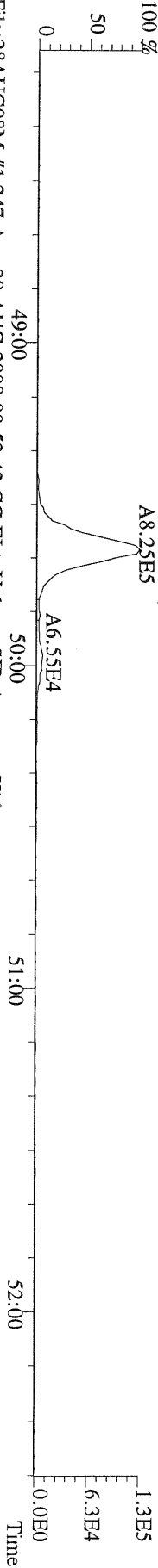
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



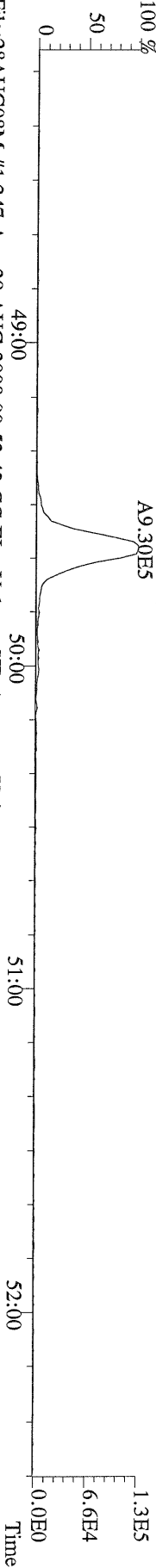
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



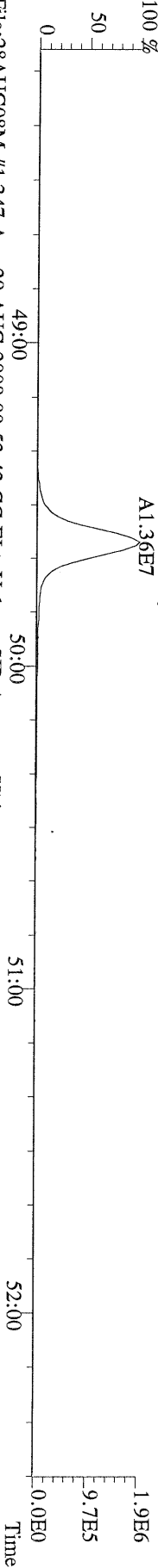
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory
100 %



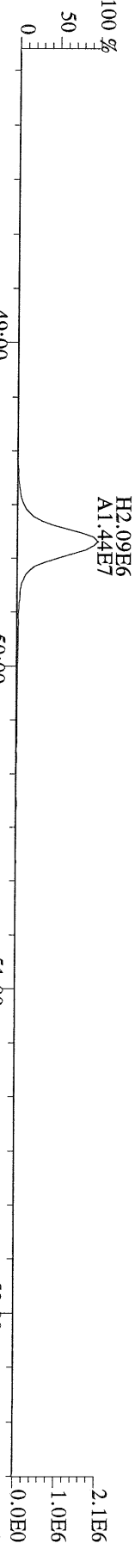
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459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory
100 %



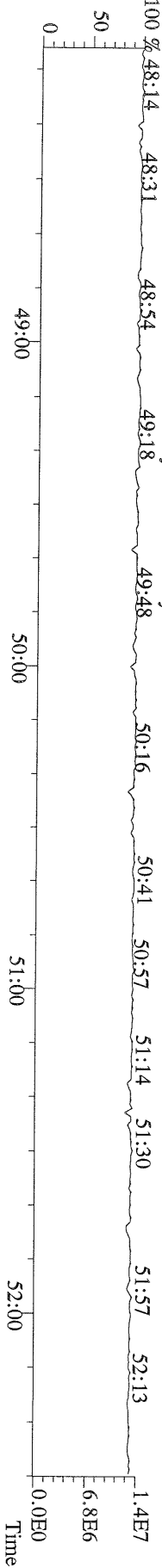
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469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory
100 %



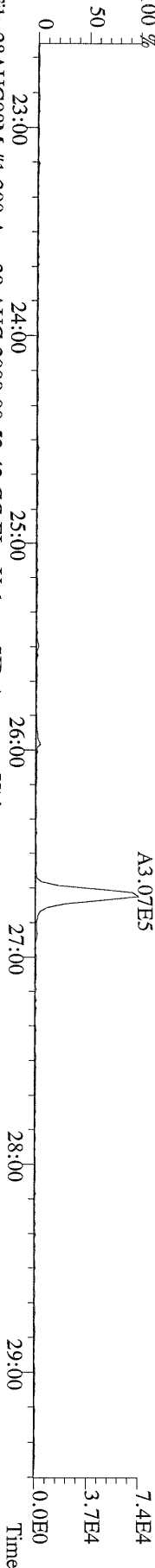
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471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



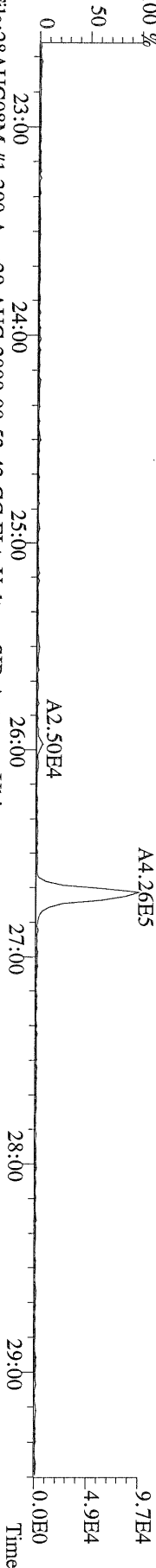
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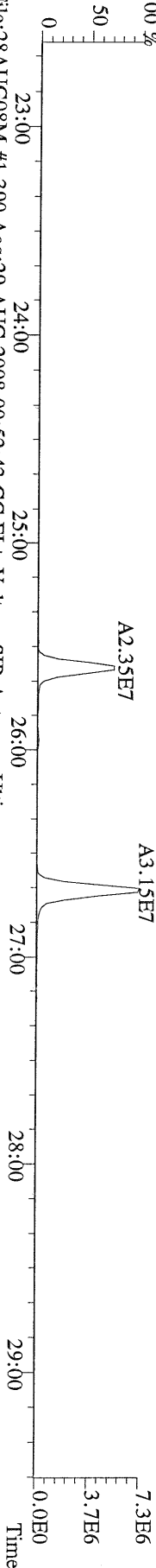
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303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



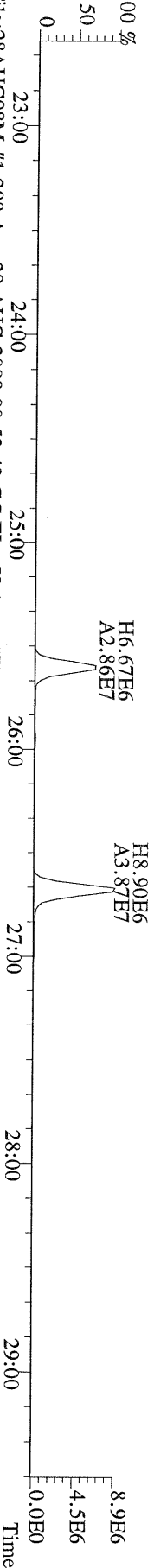
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305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
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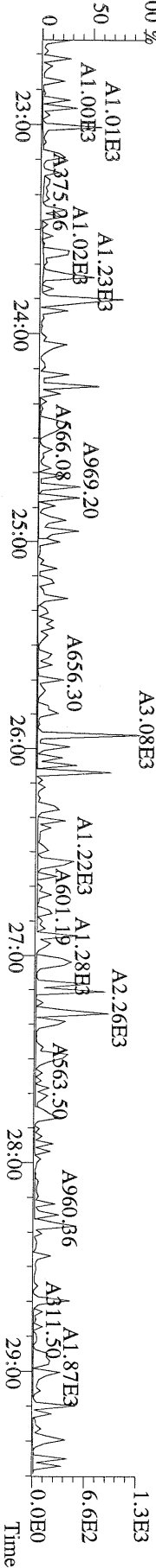
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315.9419 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



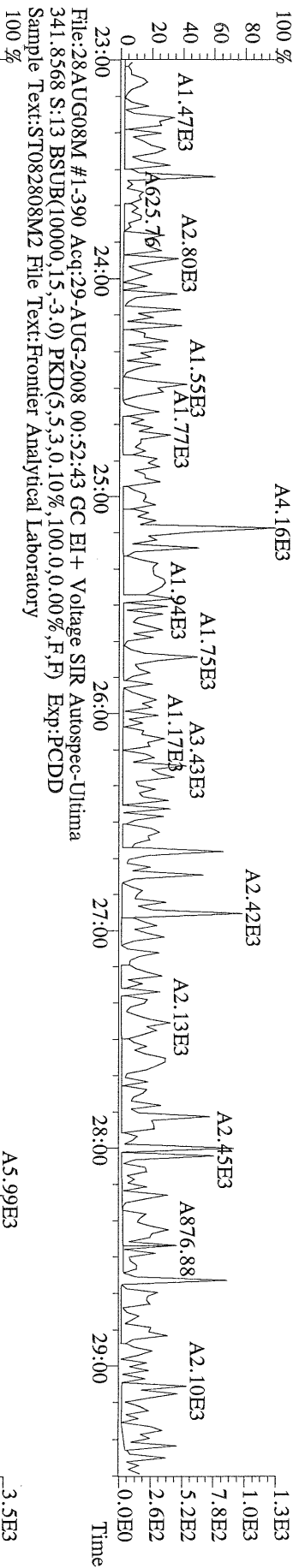
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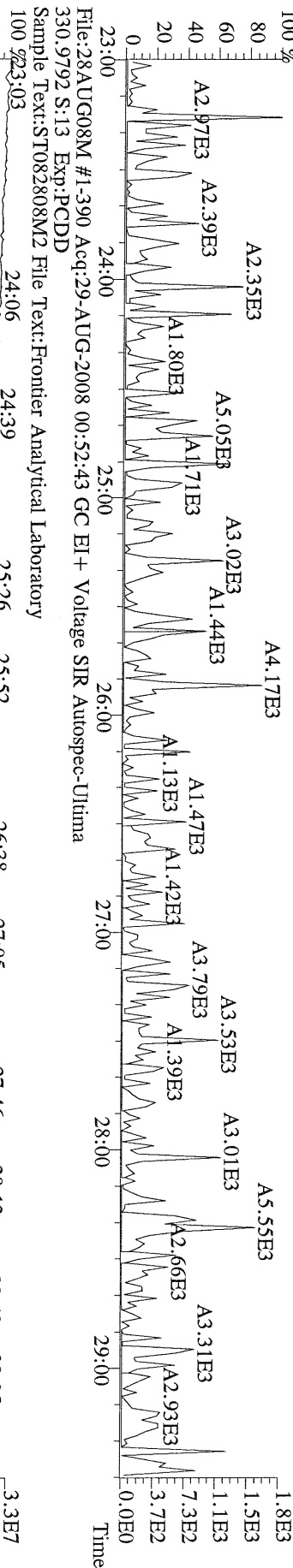
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375.8364 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



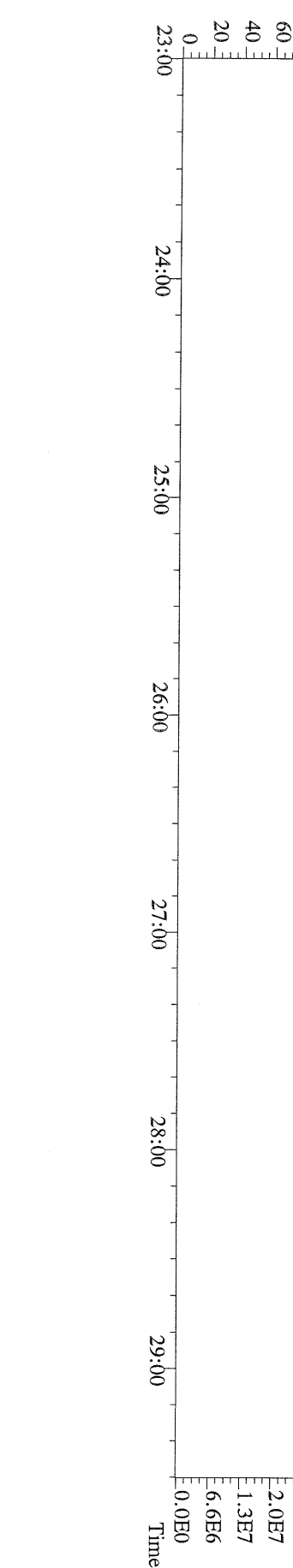
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339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



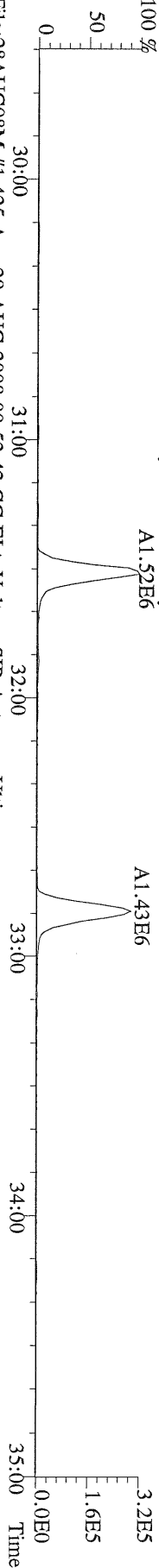
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409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



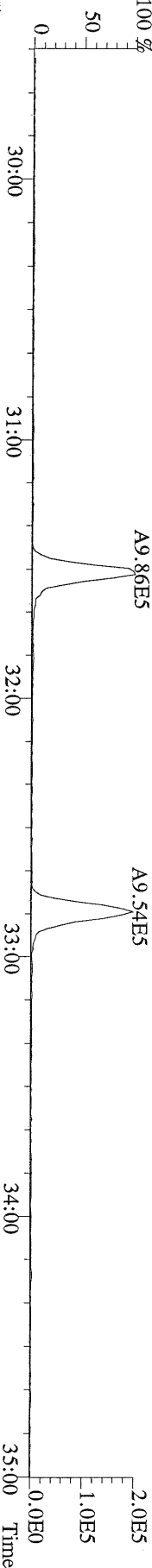
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330.9792 S:13 Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



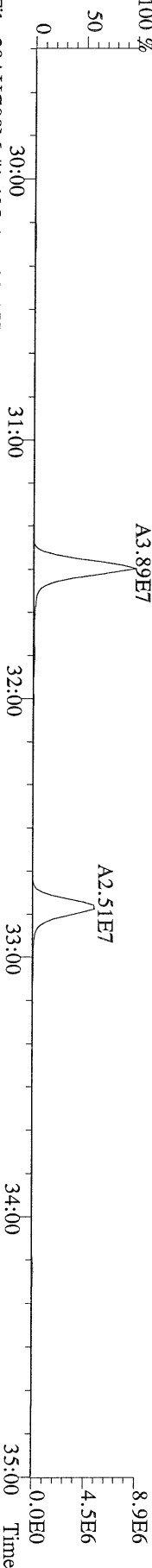
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Sample Text:ST082808M2 File Text:Fronter Analytical Laboratory



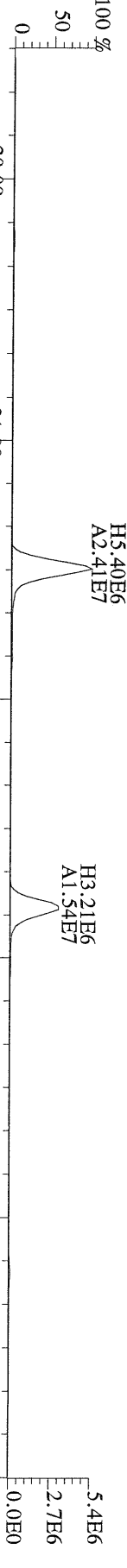
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341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Fronter Analytical Laboratory



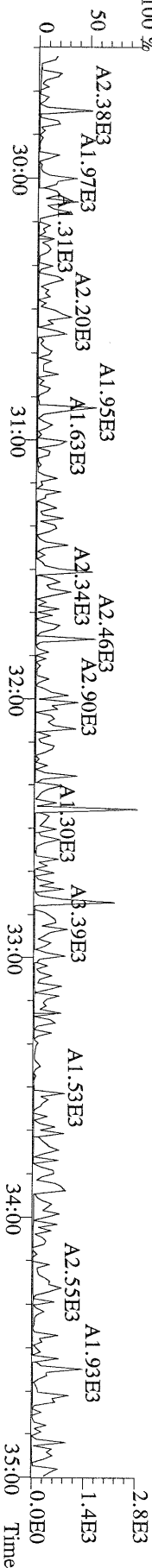
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351.9000 S:13 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Fronter Analytical Laboratory



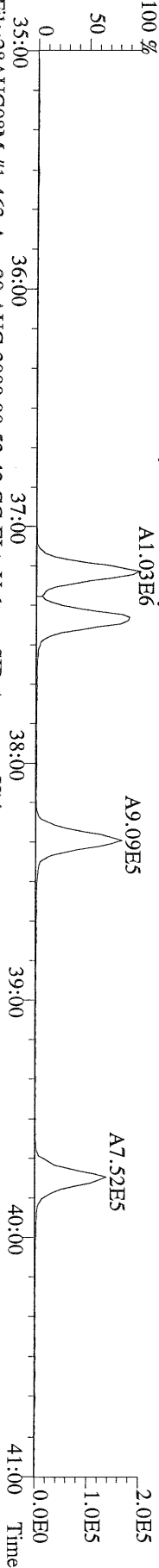
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Sample Text:ST082808M2 File Text:Fronter Analytical Laboratory



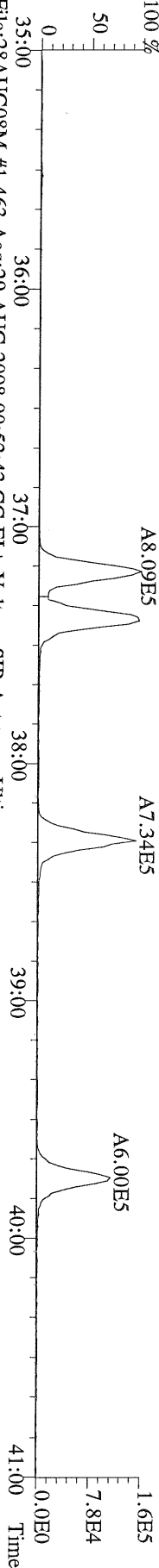
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Sample Text:ST082808M2 File Text:Fronter Analytical Laboratory



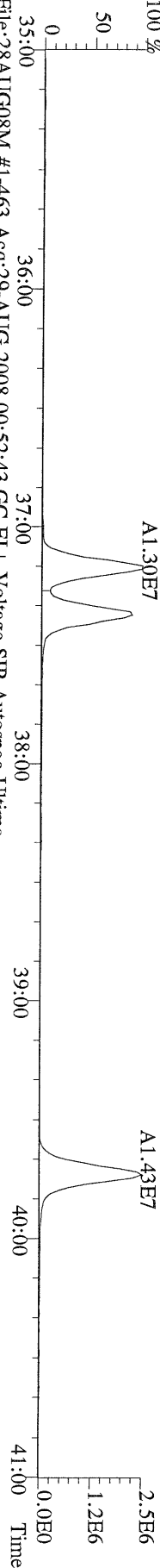
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373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



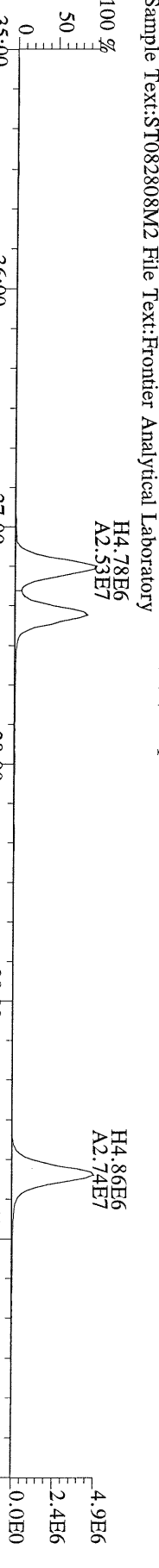
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



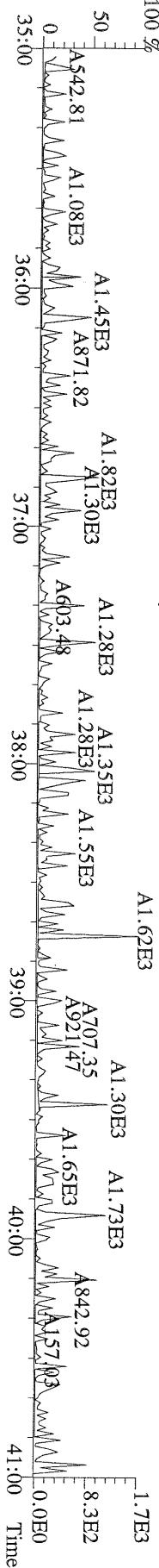
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383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



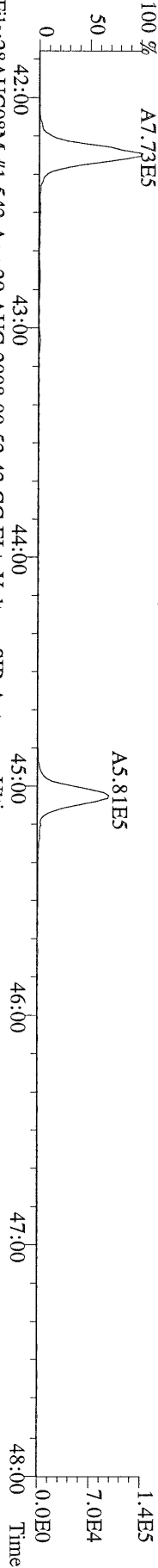
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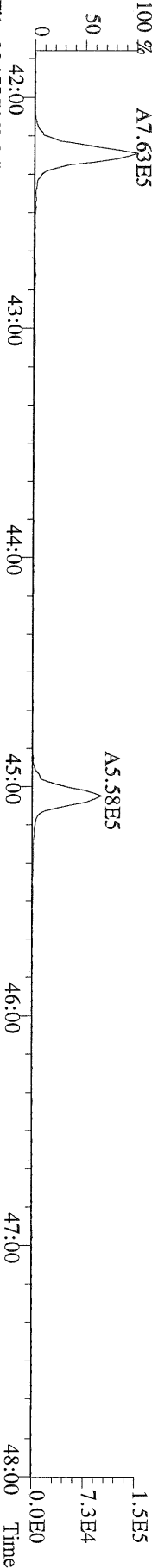
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445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



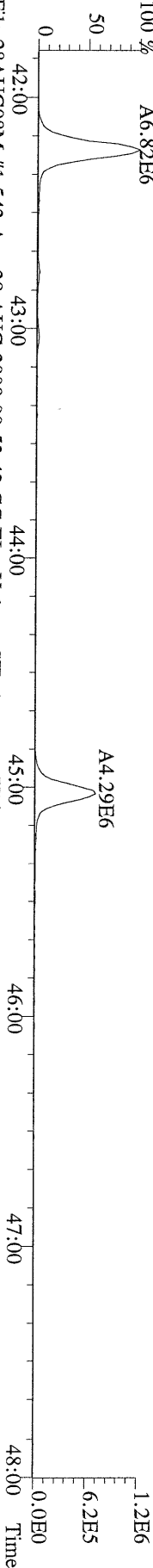
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407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



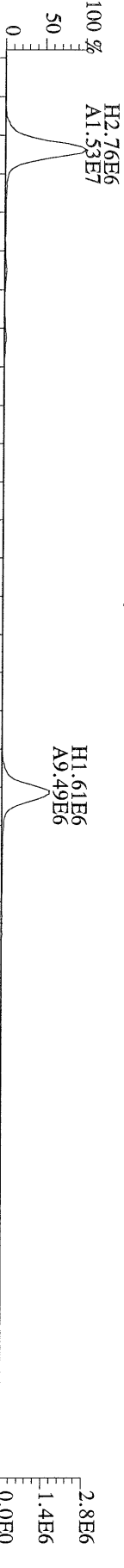
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



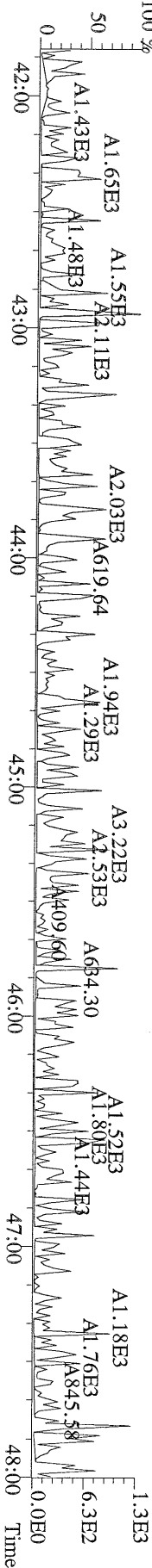
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



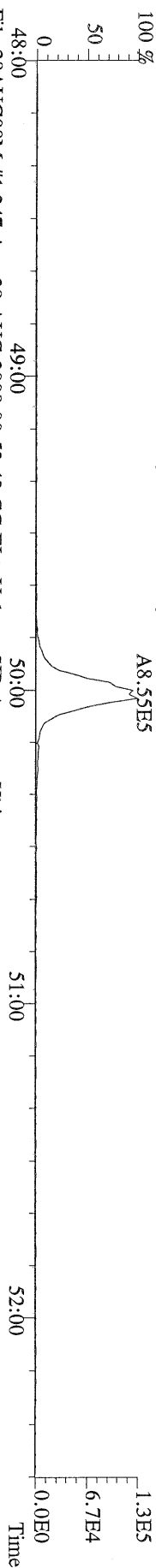
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



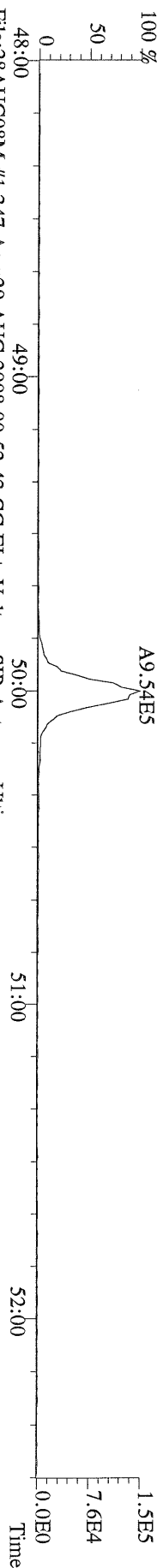
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



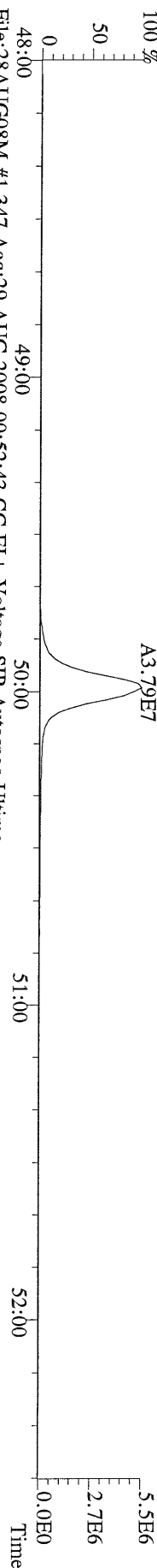
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441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



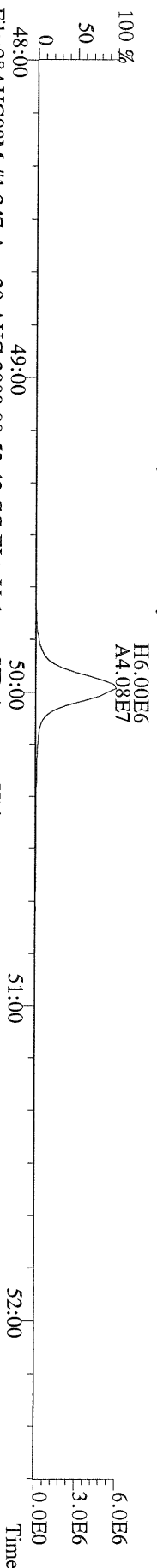
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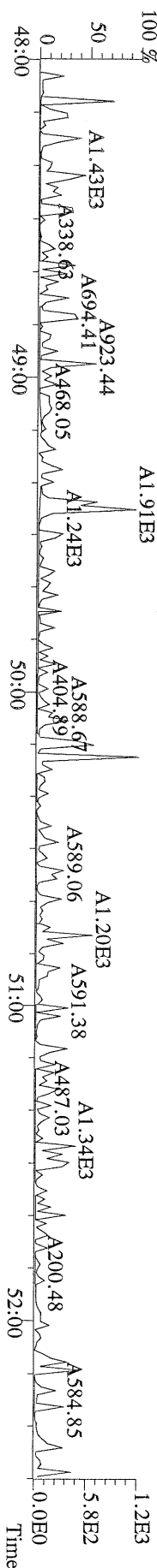
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



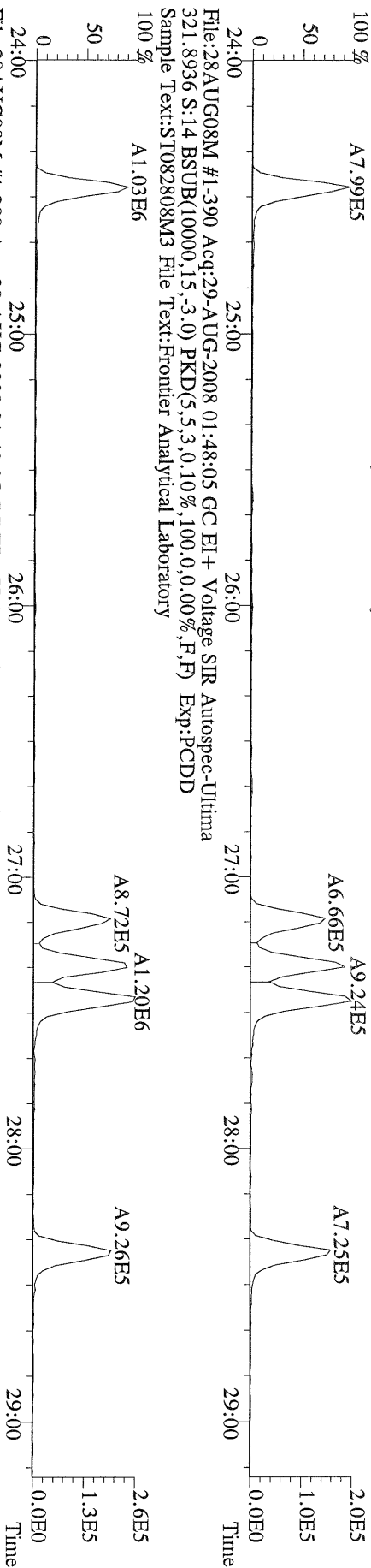
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



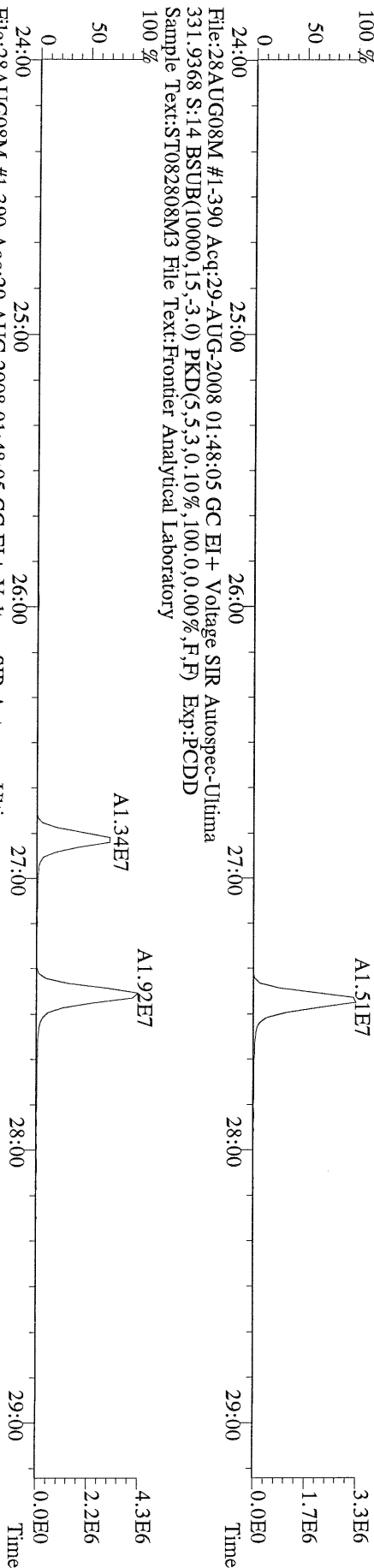
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



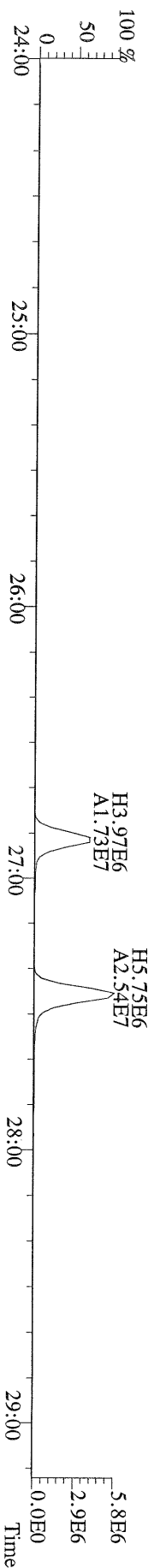
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319.8965 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



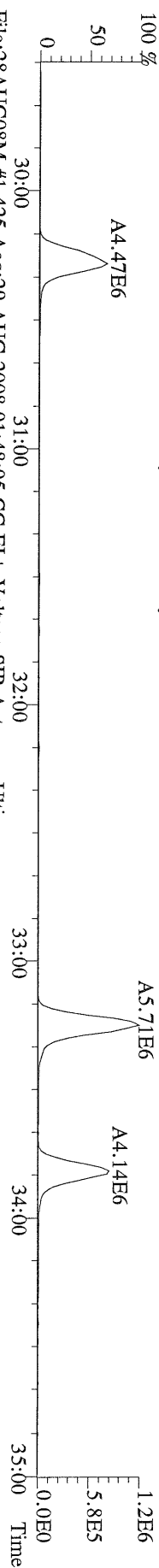
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327.8847 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



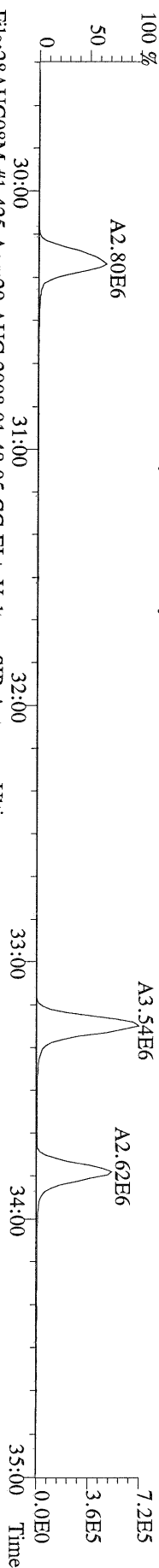
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331.9368 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



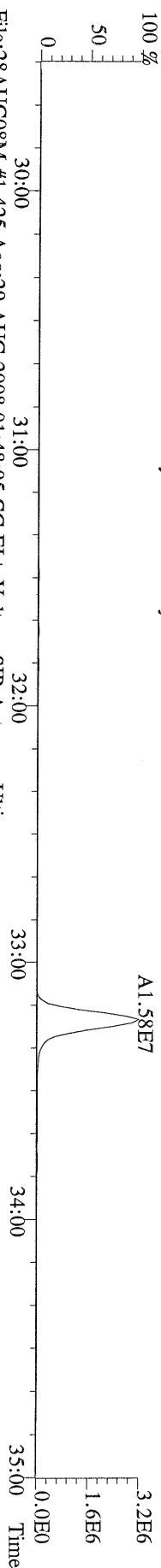
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355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



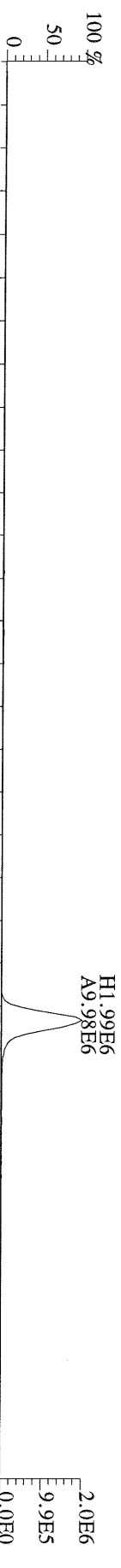
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357.8517 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



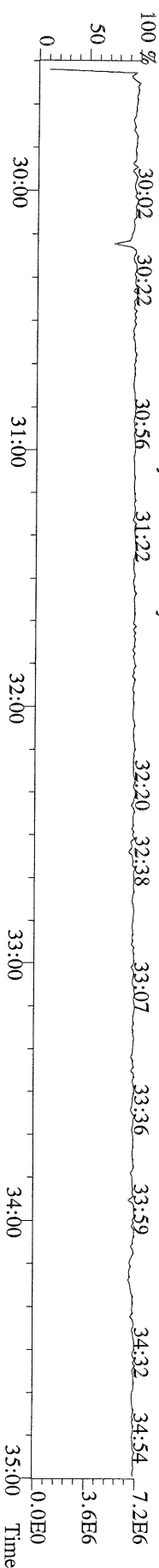
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367.8949 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-425 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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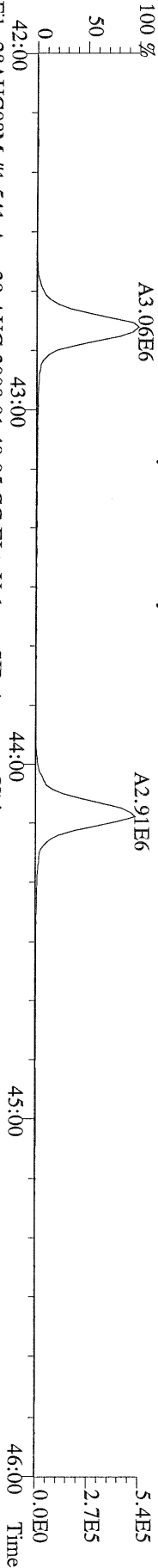
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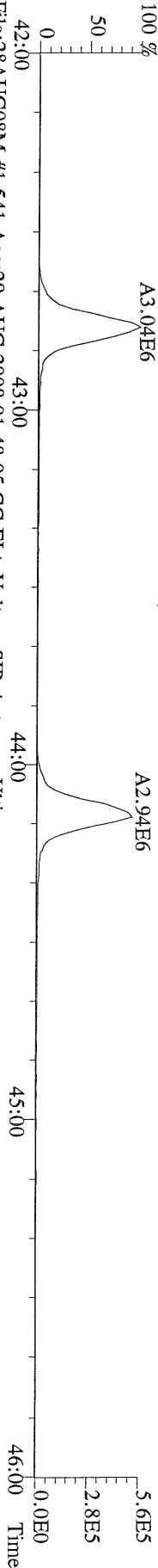
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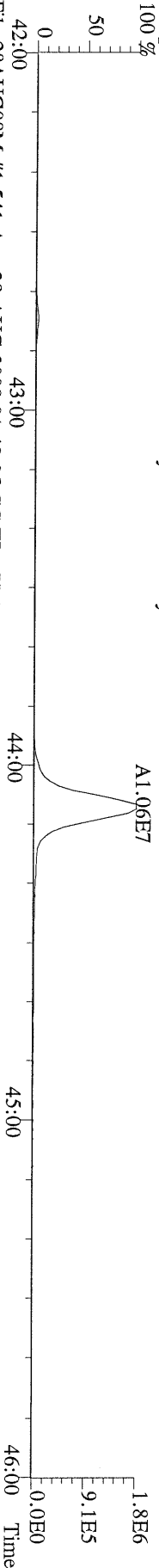
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423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



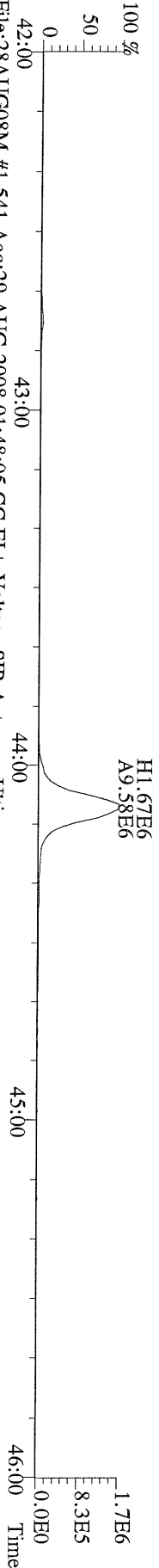
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425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



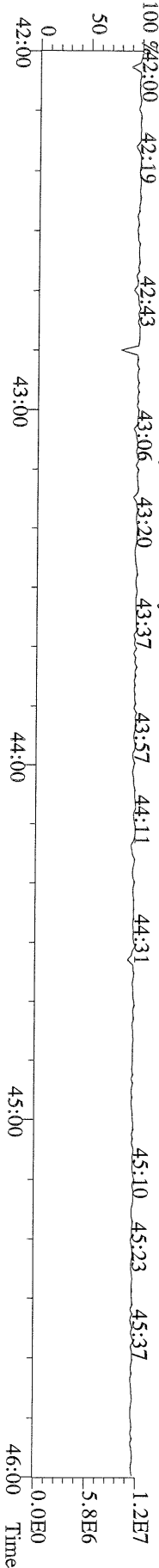
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435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



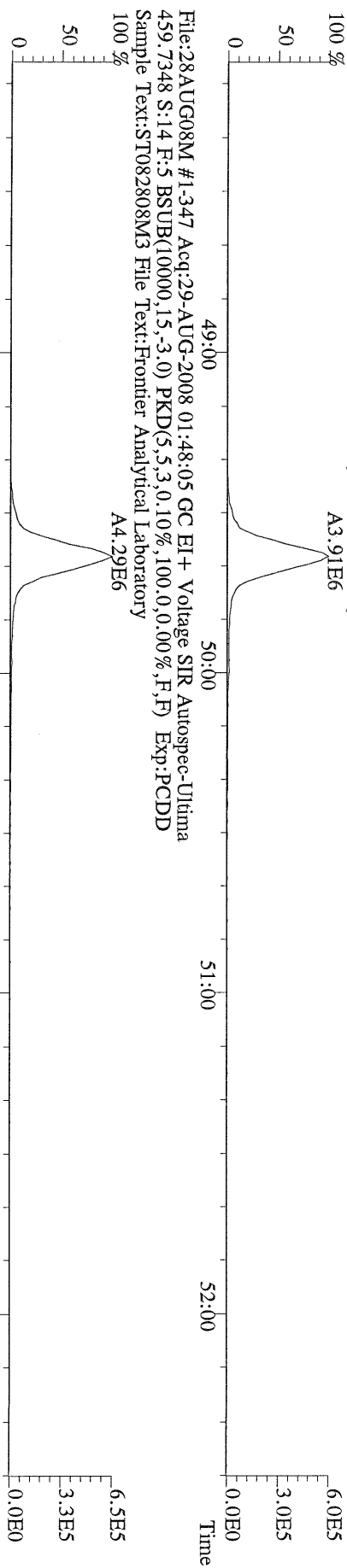
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437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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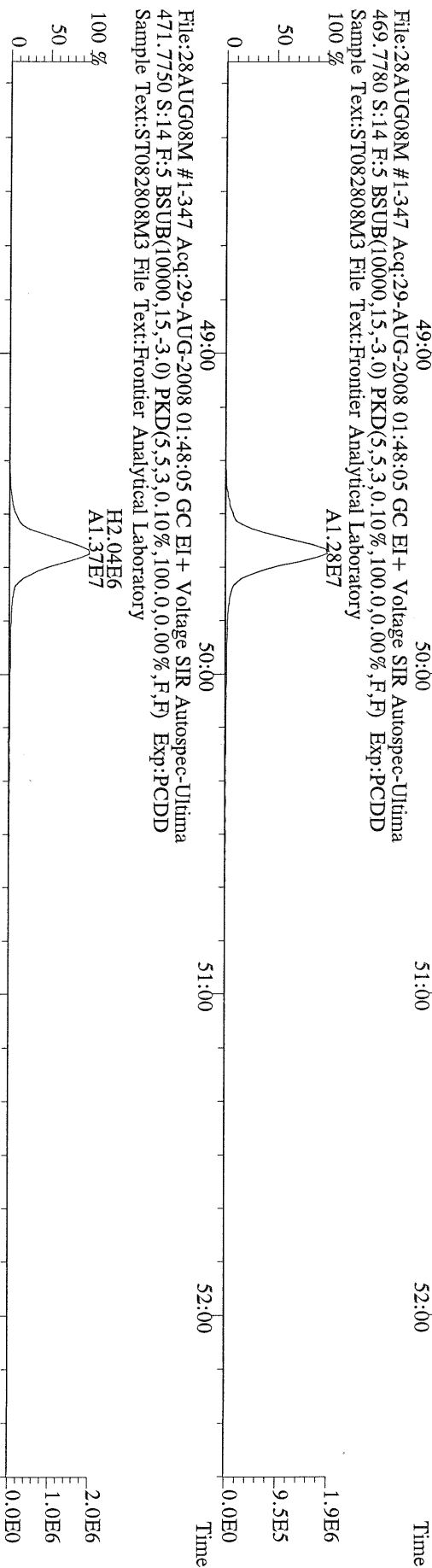
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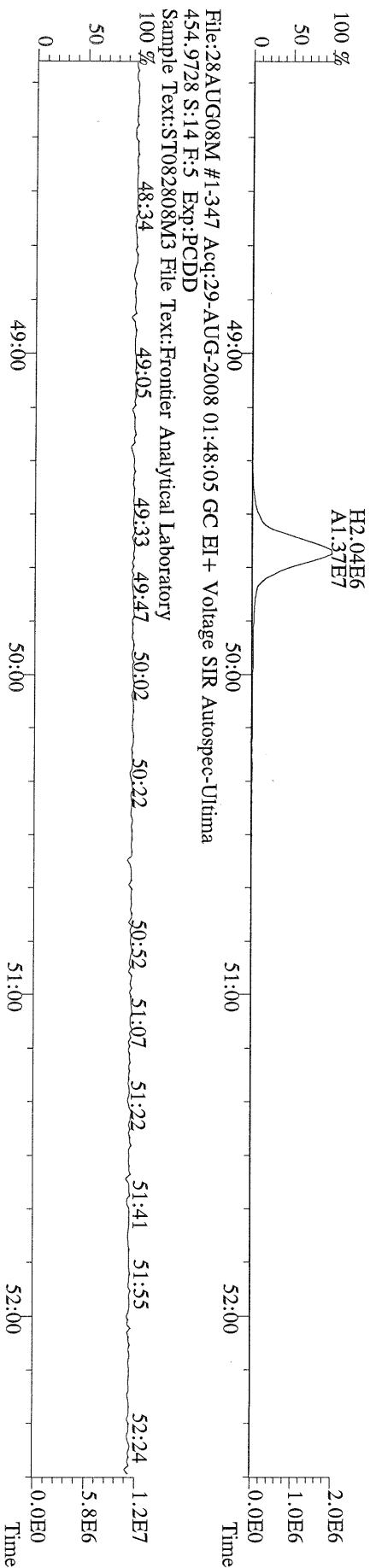
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457.7377 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



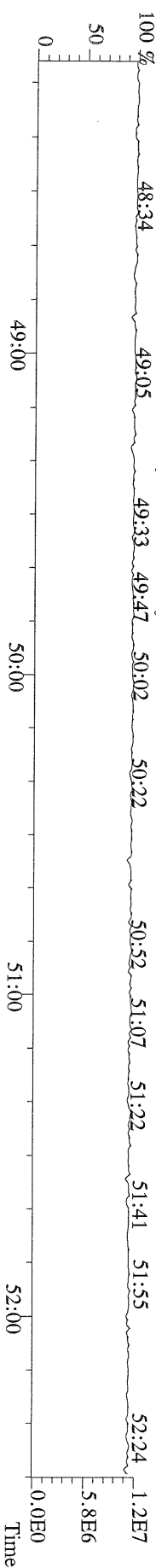
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469.7780 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



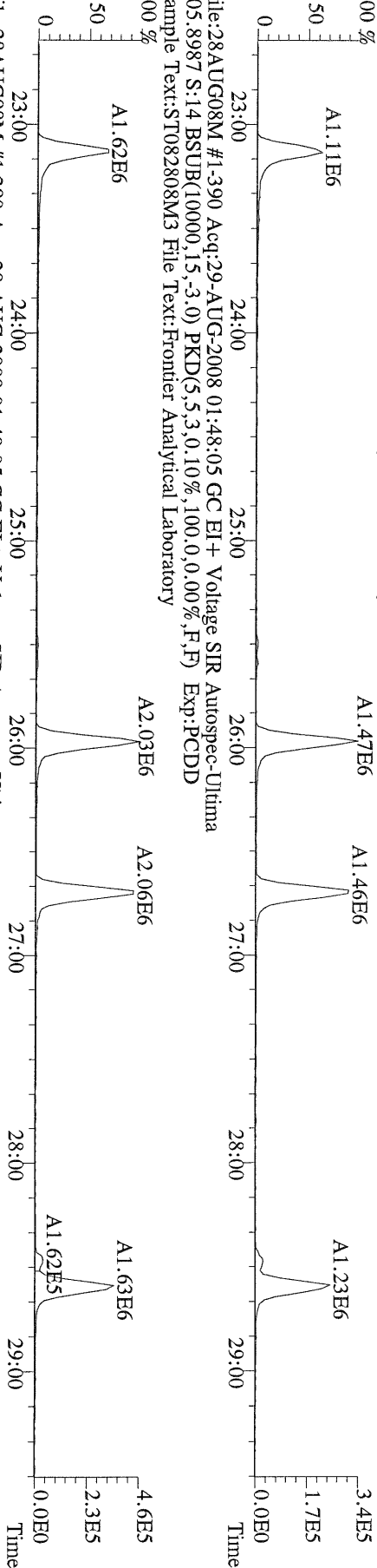
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471.7750 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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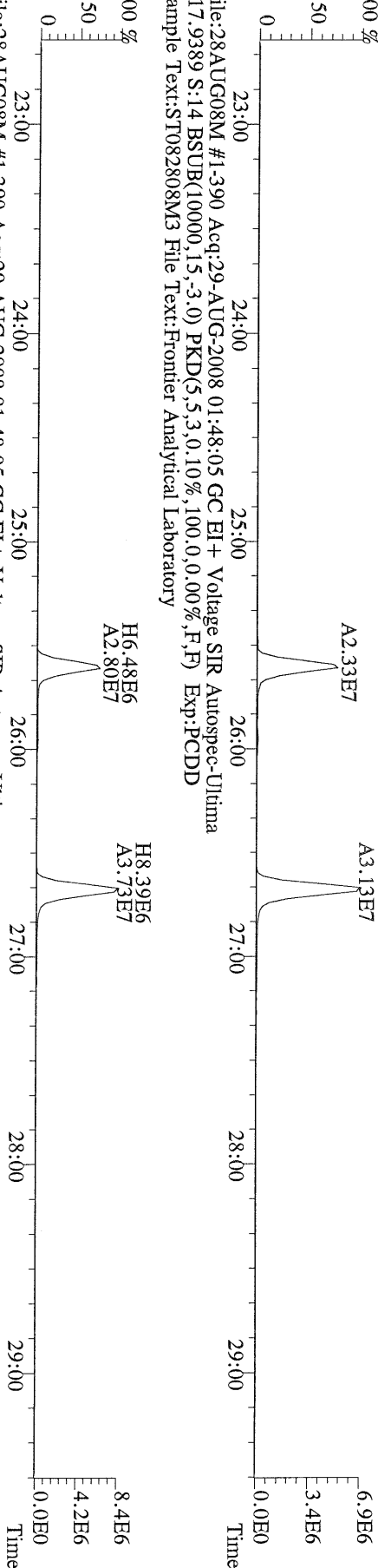
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454.9728 S:14 F:5 Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



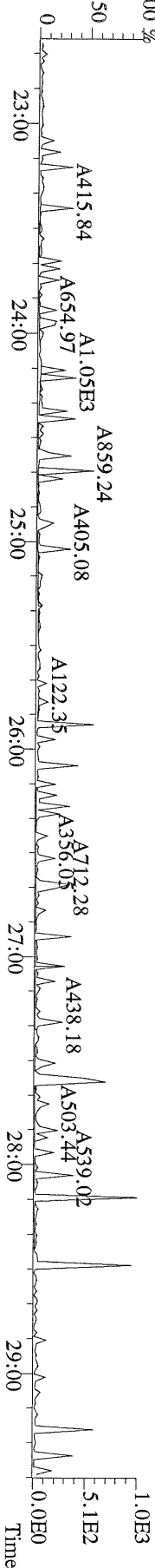
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303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



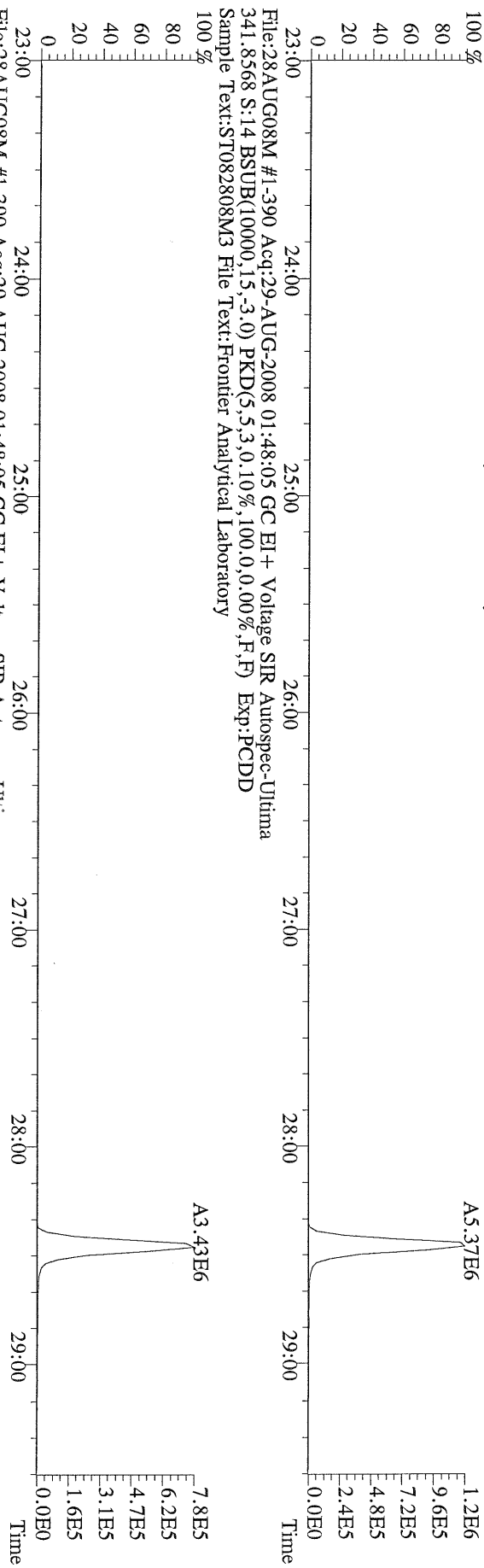
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315.9419 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



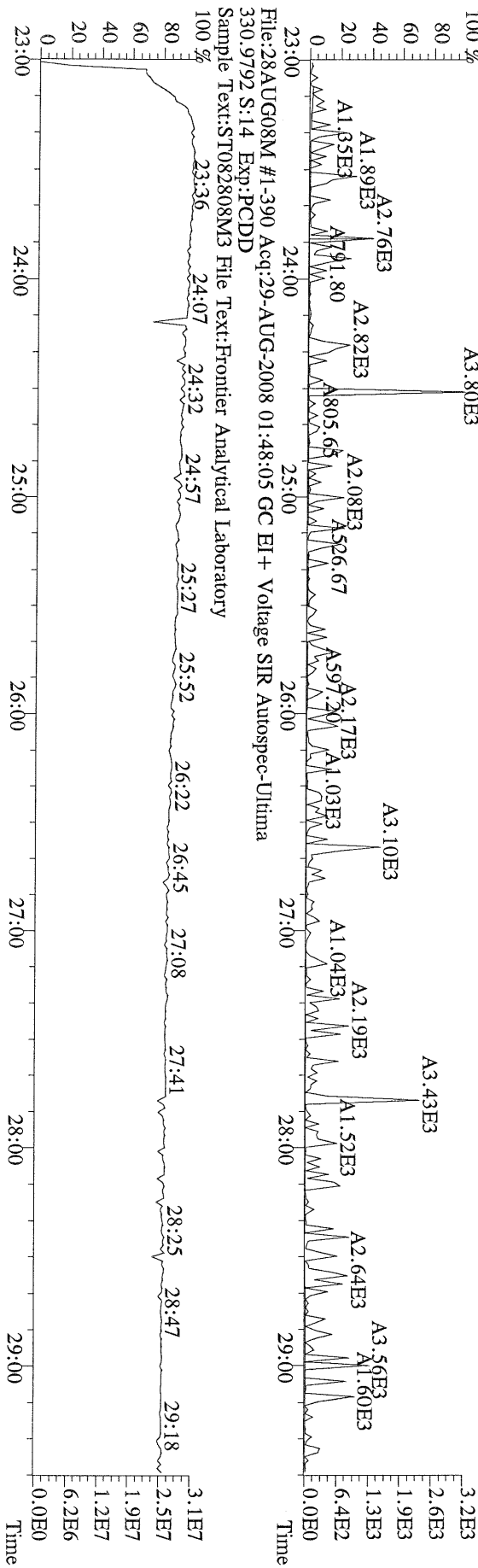
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375.8364 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



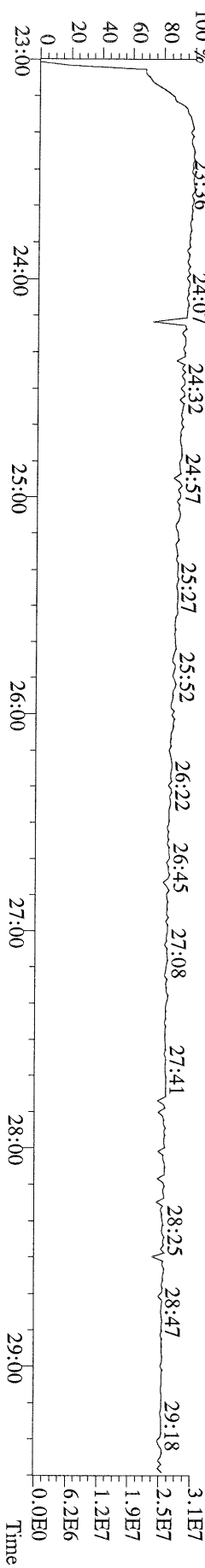
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339.8597 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



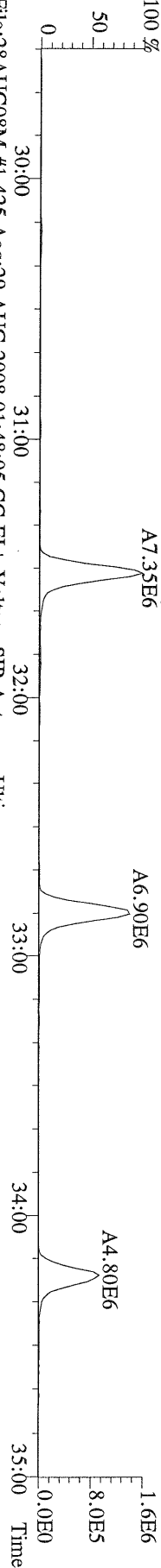
File:28AUG08M #1-390 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



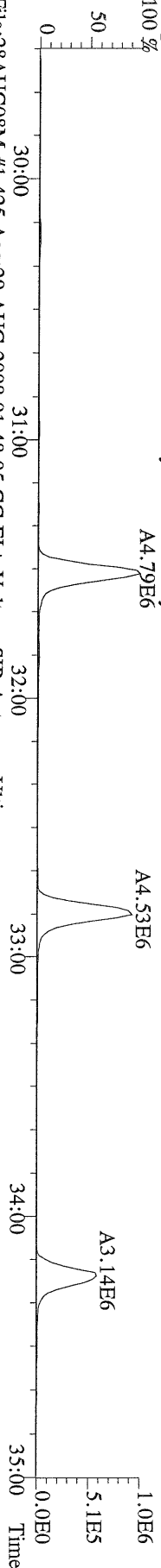
File:28AUG08M #1-390 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:14 Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



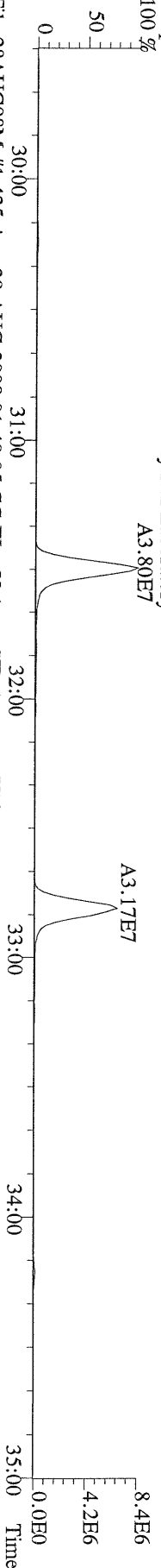
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339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



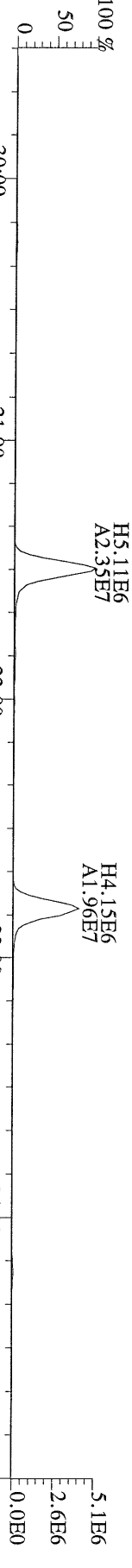
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341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



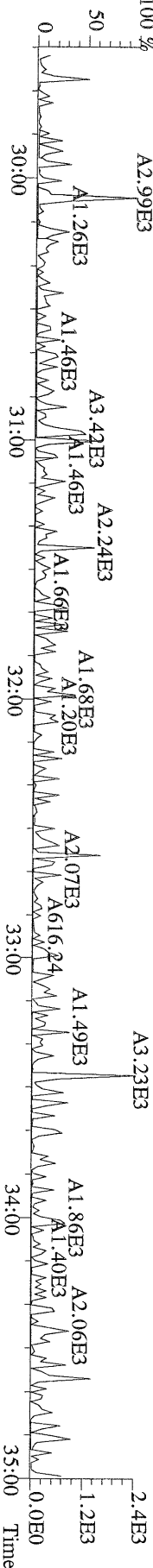
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351.9000 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



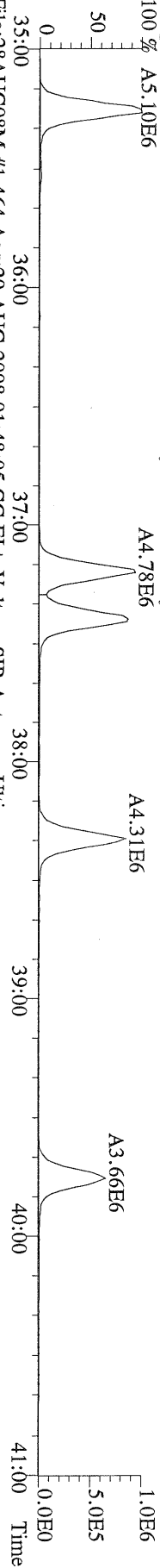
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353.8970 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



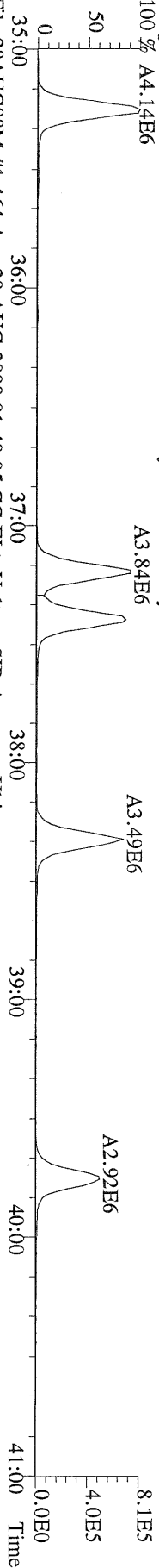
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409.7974 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



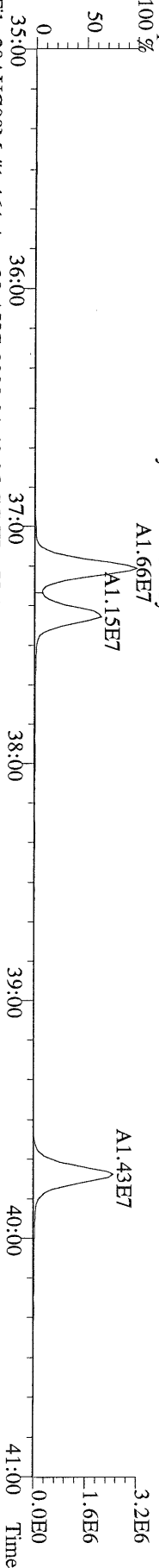
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373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory
100 % A5.10E6



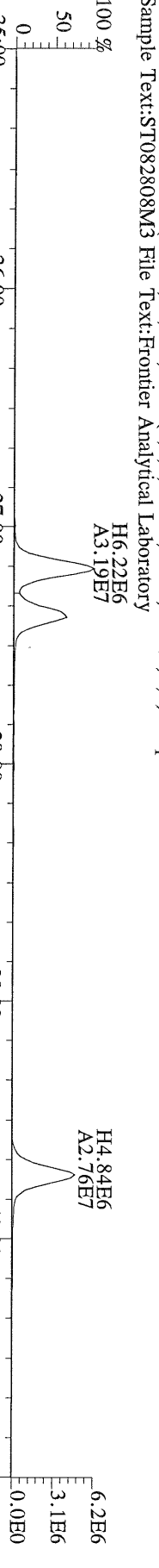
File:28AUG08M #1.464 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory
100 % A4.14E6



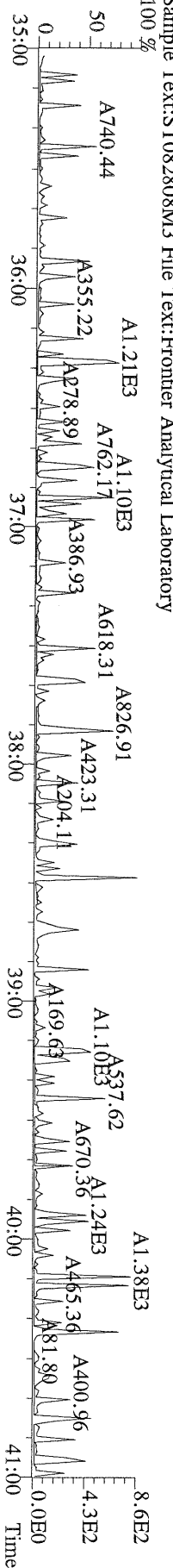
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383.8639 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory
100 %



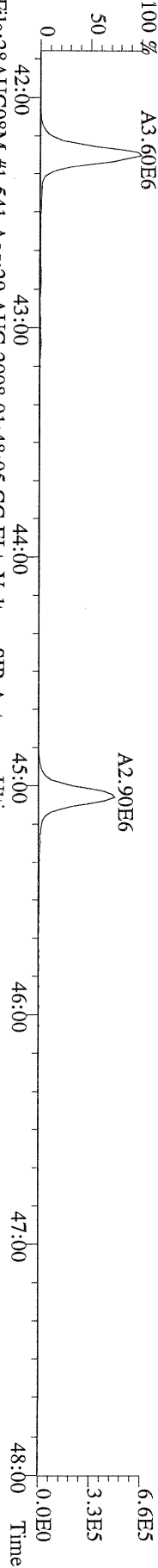
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385.8610 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



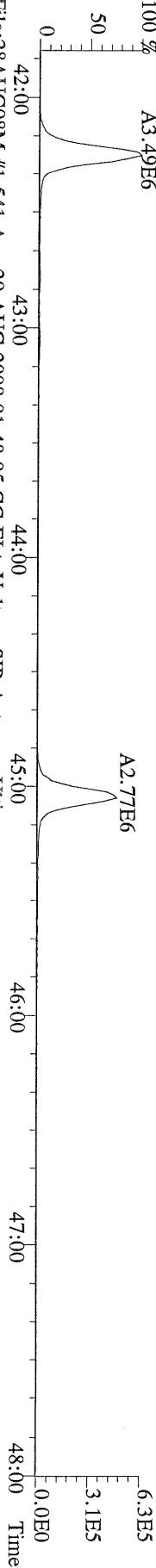
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445.7555 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



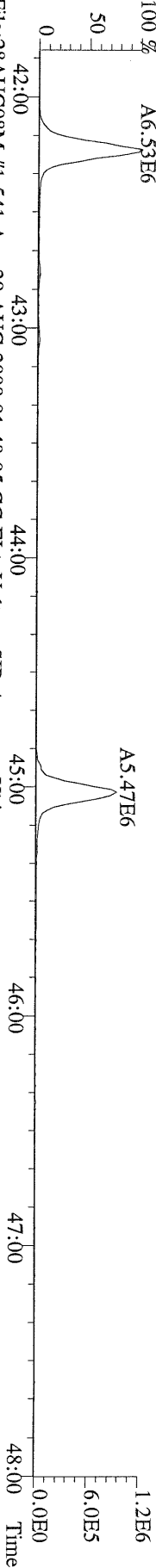
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407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



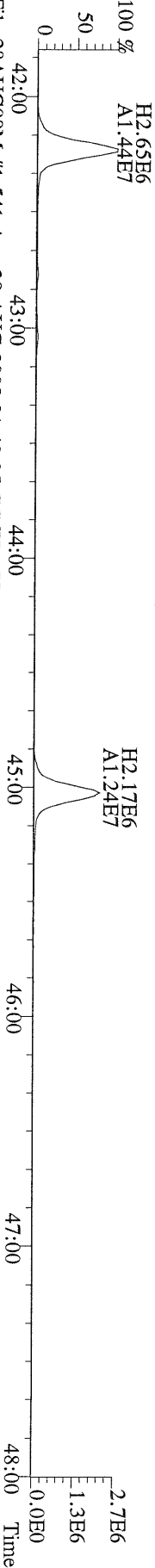
File:28AUG08M #1-541 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



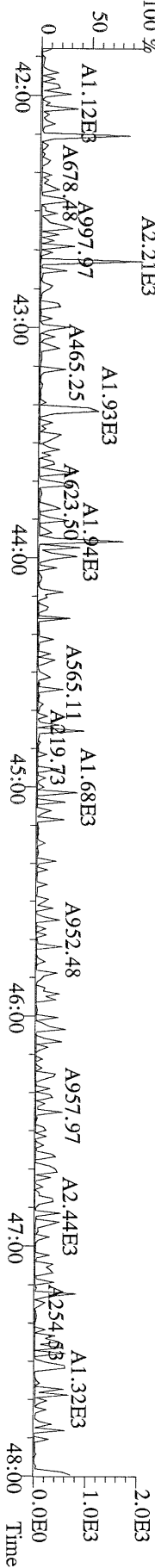
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417.8253 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



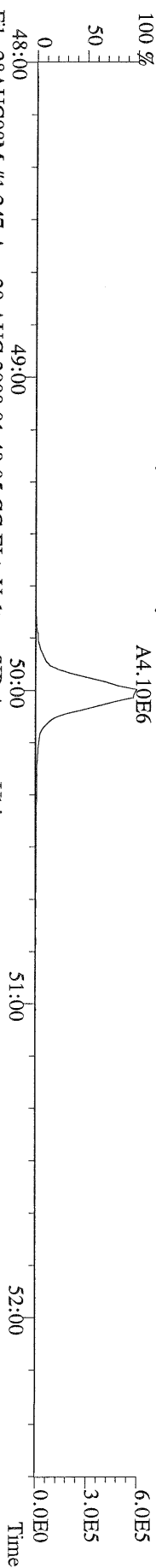
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419.8220 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



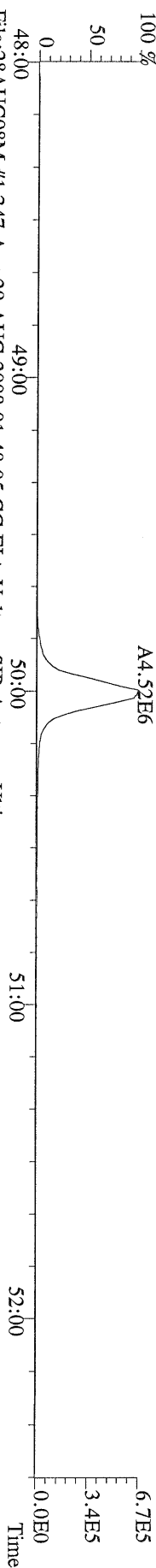
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479.7165 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-347 Acq:29-AUG-2008 01:48:05 GC EI + Voltage SIR Autospec-Ultima
441.7428 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



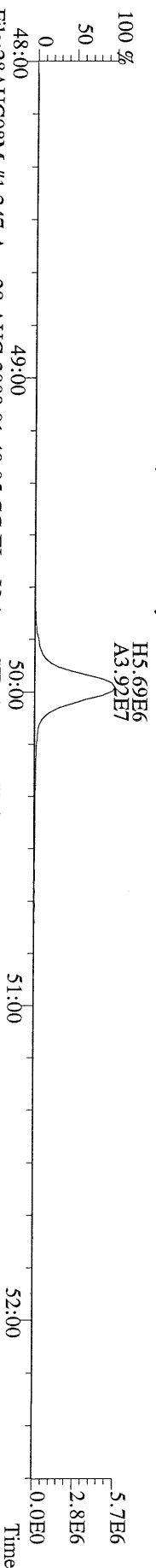
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443.7398 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



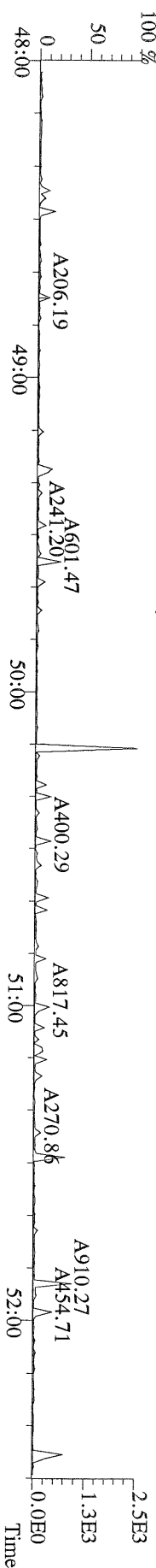
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453.7831 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



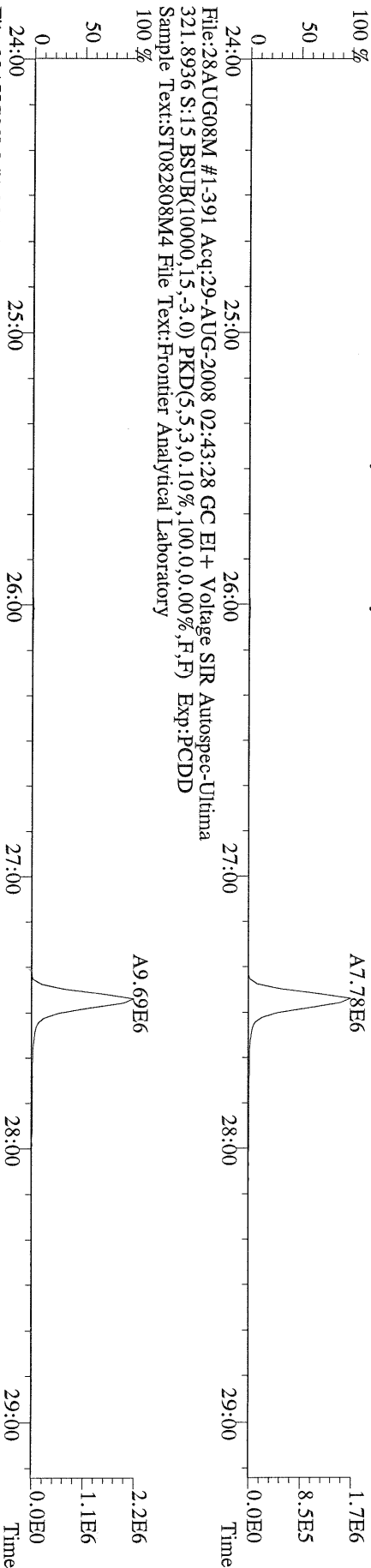
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455.7801 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



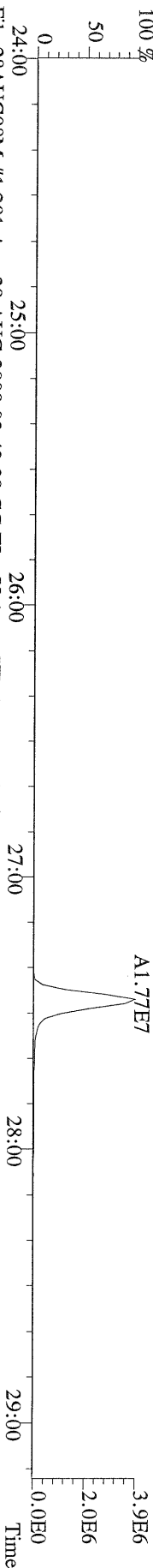
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513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



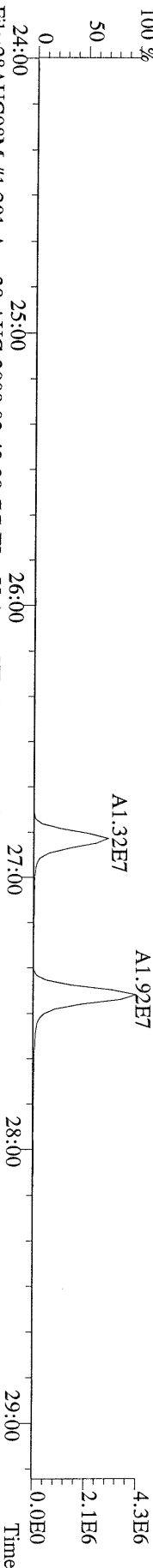
File:28AUG08M #1-391 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



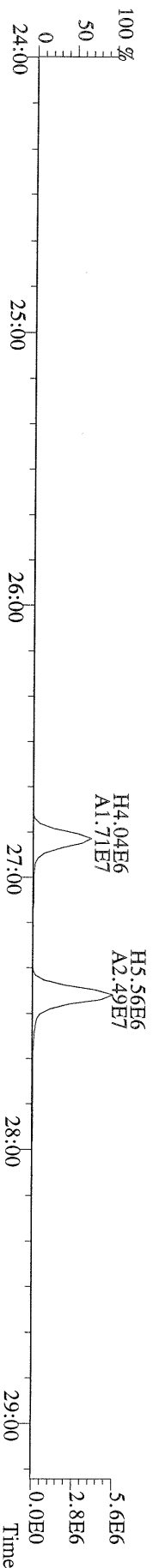
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327.8847 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



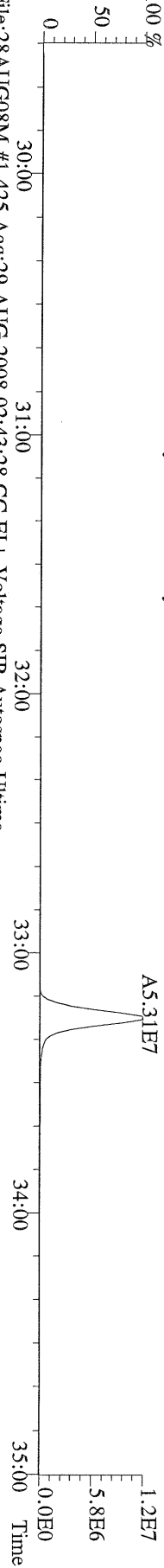
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331.9368 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



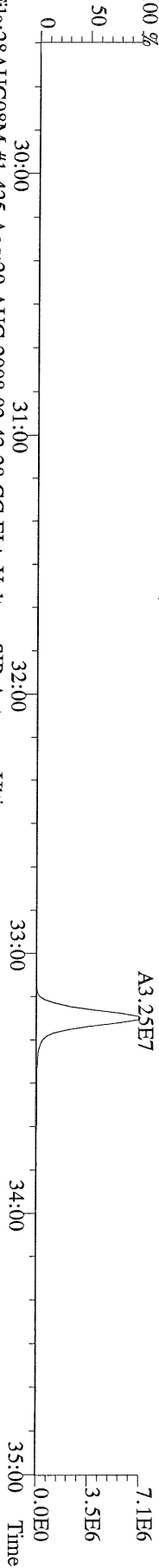
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333.9339 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



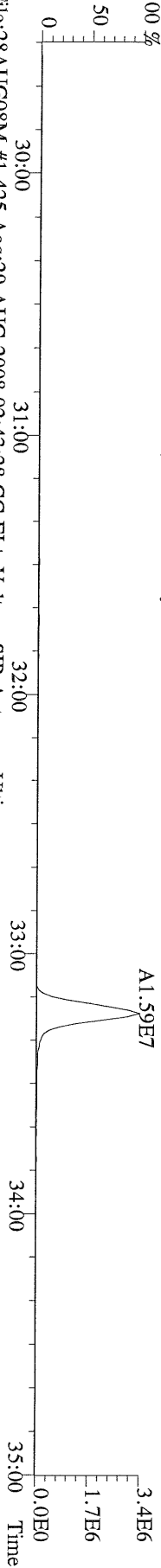
File:28AUG08M #1-425 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



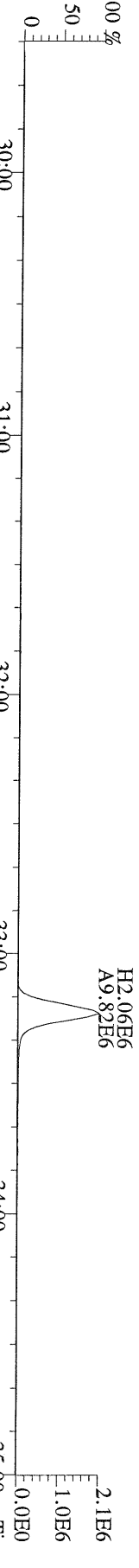
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357.8517 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



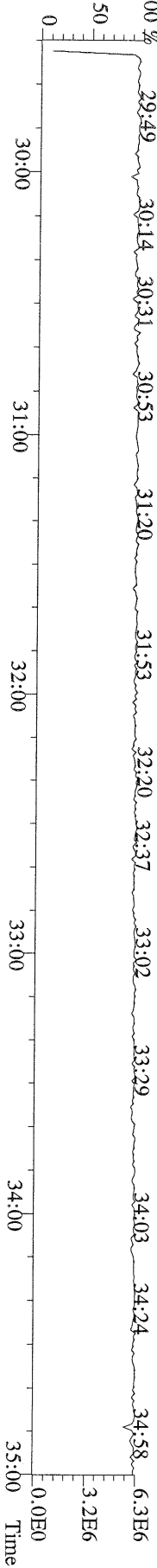
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367.8949 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
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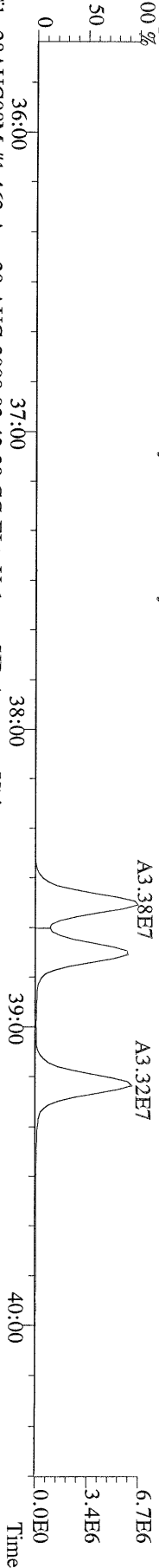
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369.8919 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



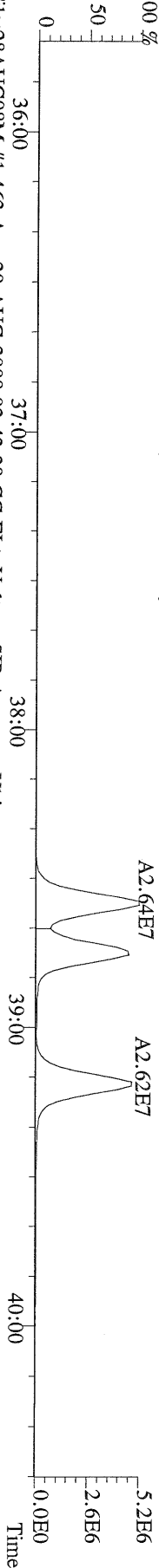
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366.9792 S:15 F:2 Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



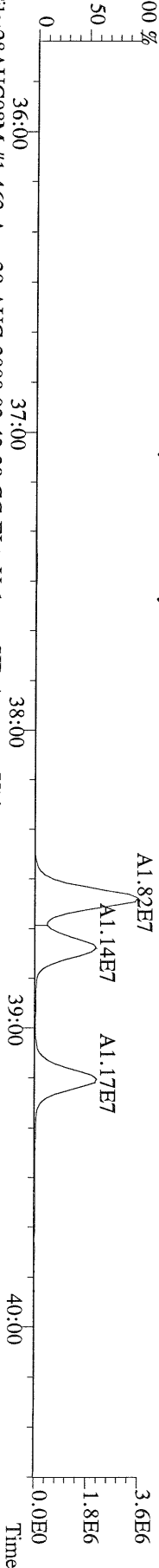
File:28AUG08M #1-463 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



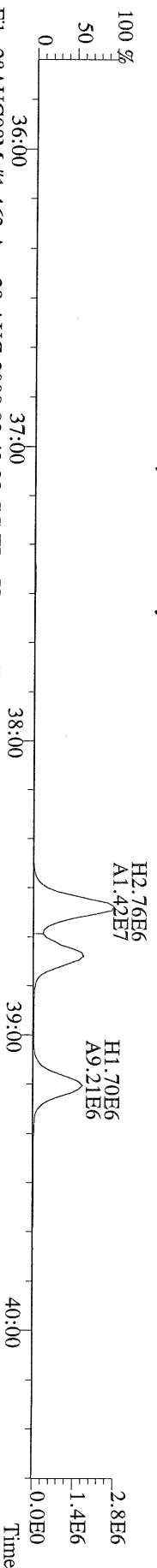
File:28AUG08M #1-463 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



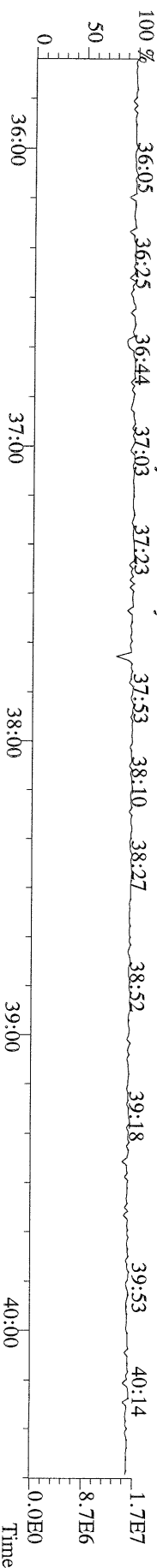
File:28AUG08M #1-463 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



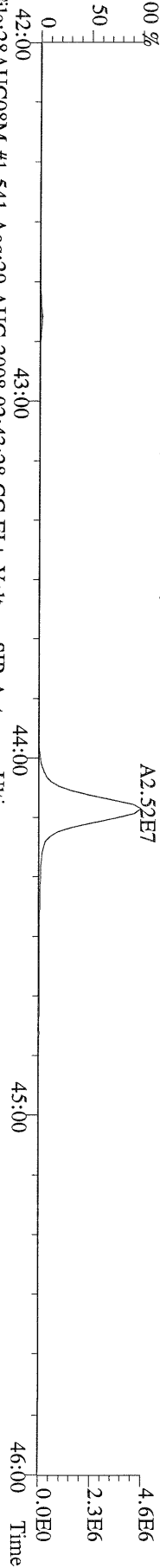
File:28AUG08M #1-463 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



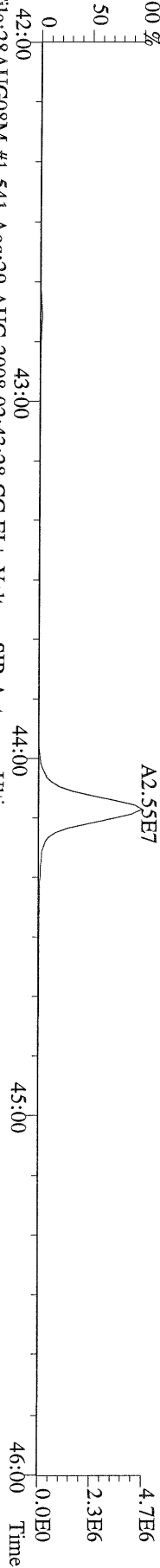
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380.9760 S:15 F:3 Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



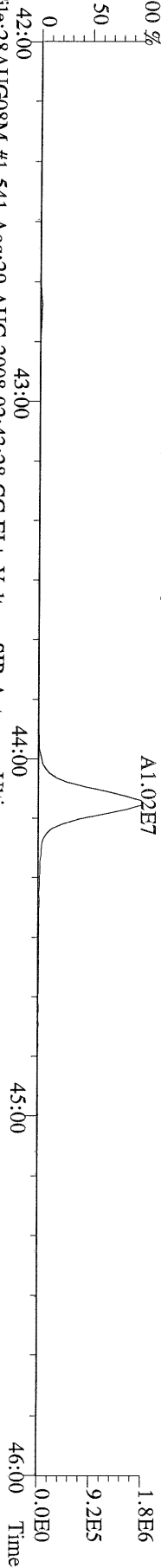
File:28AUG08M #1-541 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



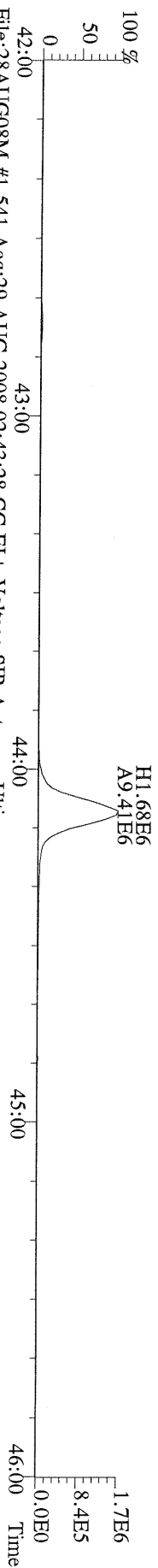
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425.7737 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



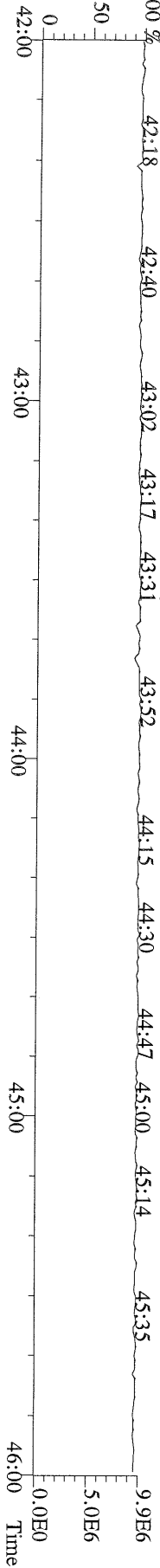
File:28AUG08M #1-541 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



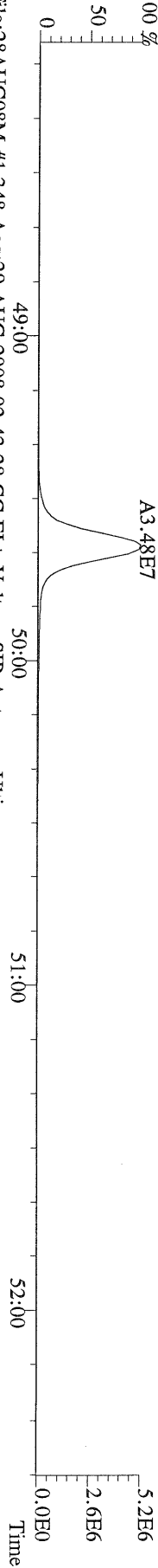
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437.8140 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



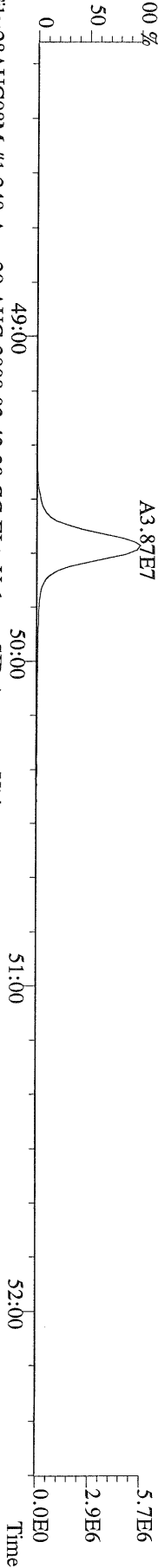
File:28AUG08M #1-541 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:15 F:4 Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



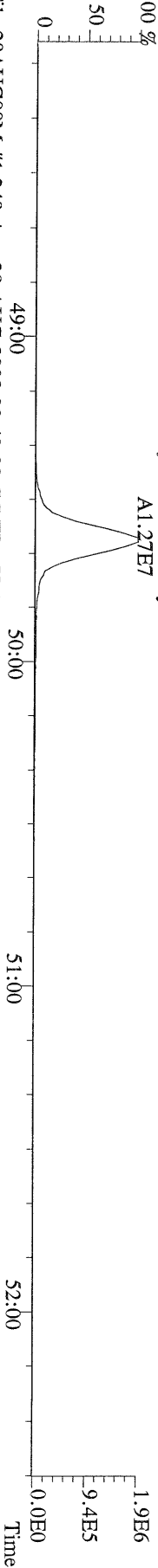
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457.7377 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



File:28AUG08M #1-348 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



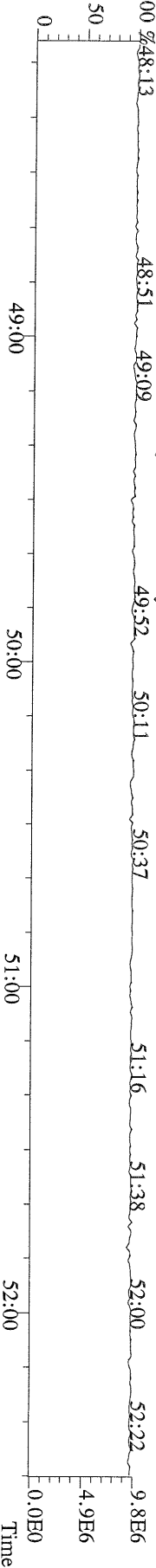
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



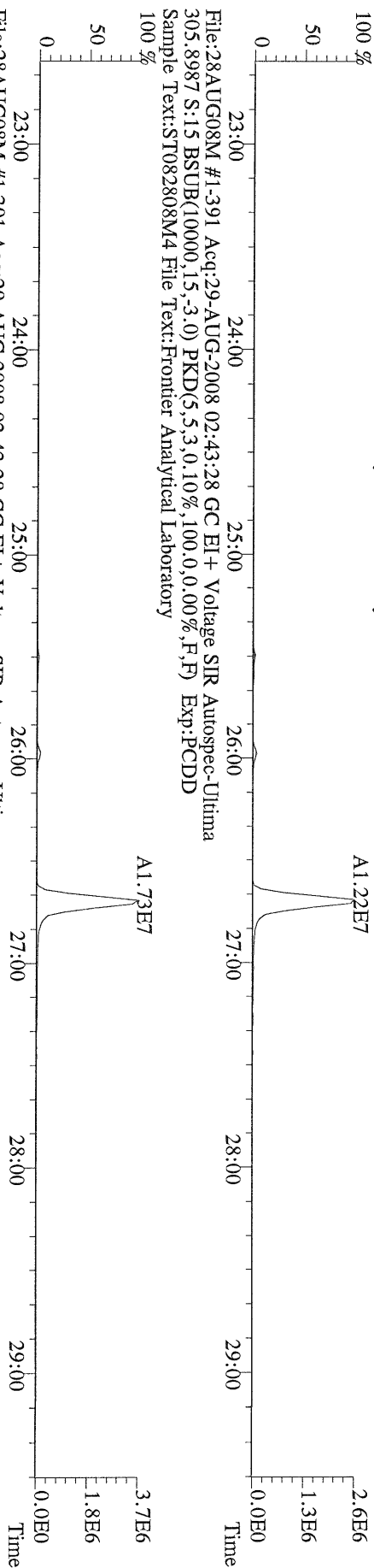
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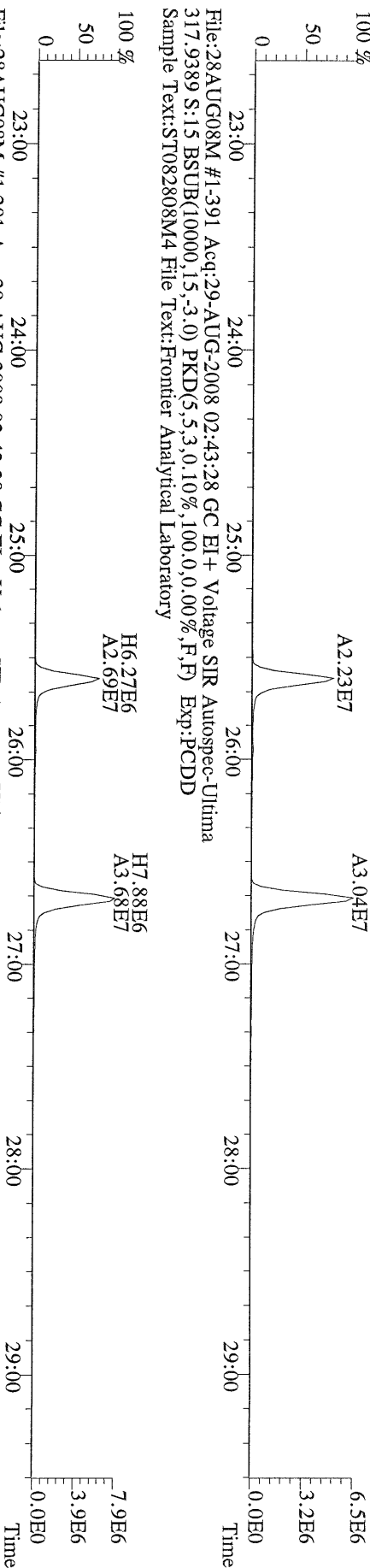
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



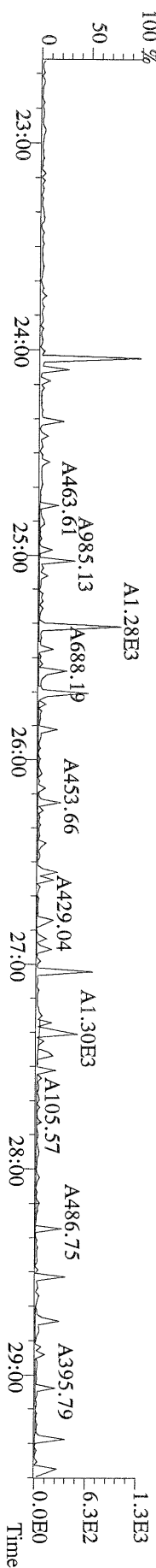
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303.9016 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



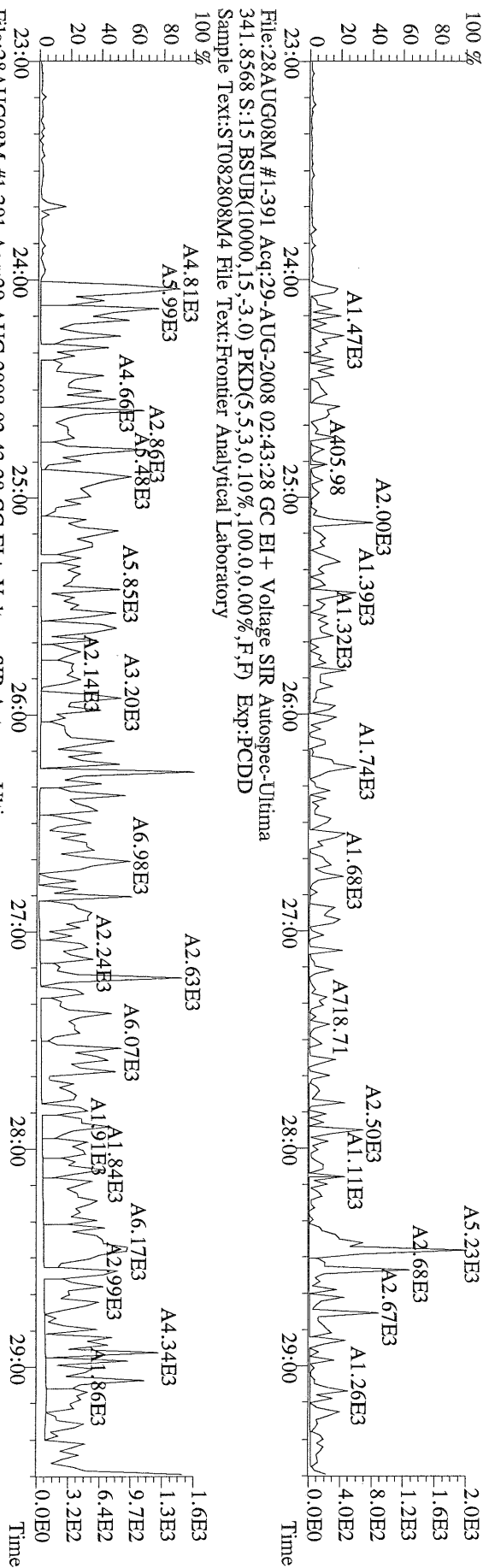
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315.9419 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



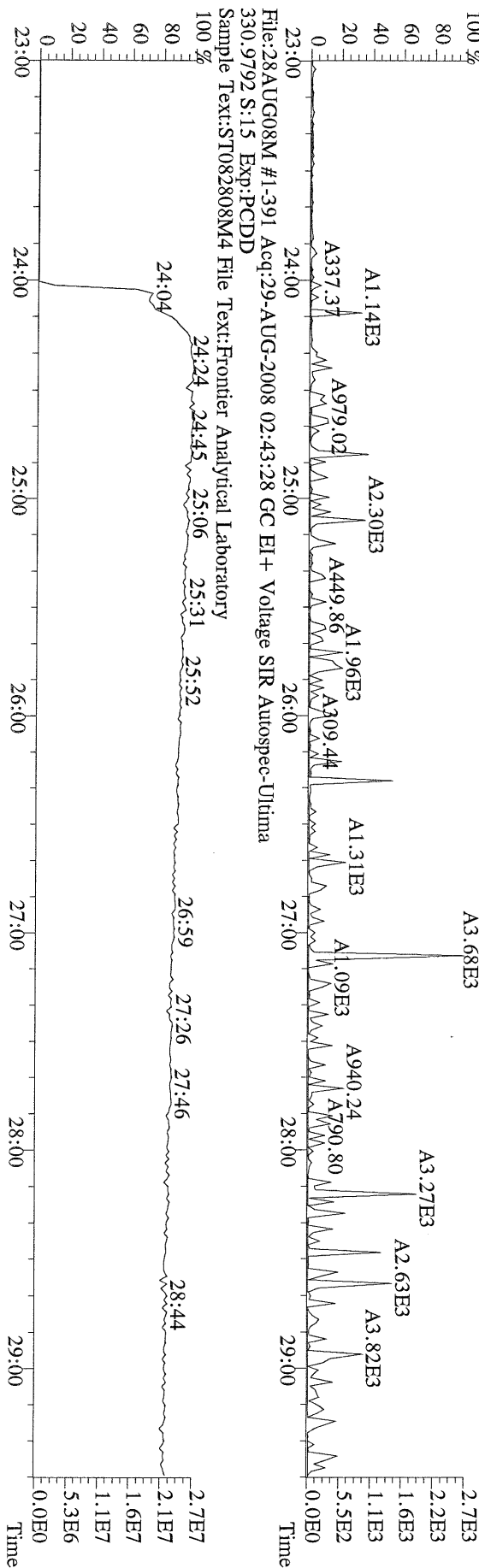
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317.9389 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



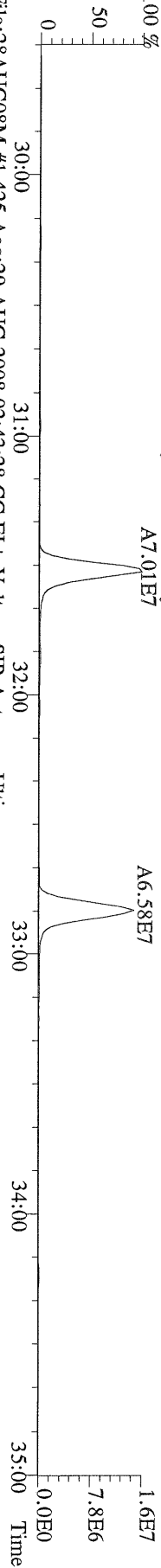
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339.8597 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



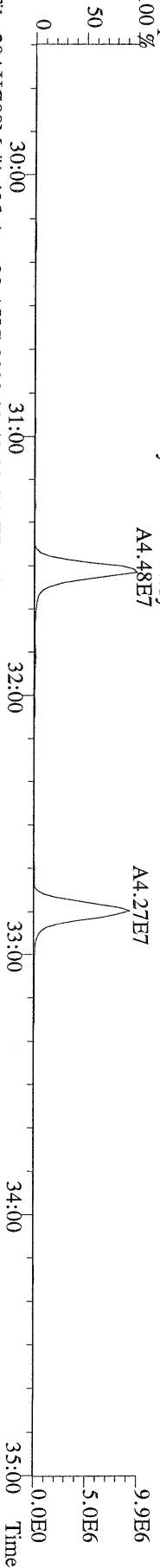
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409.7974 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



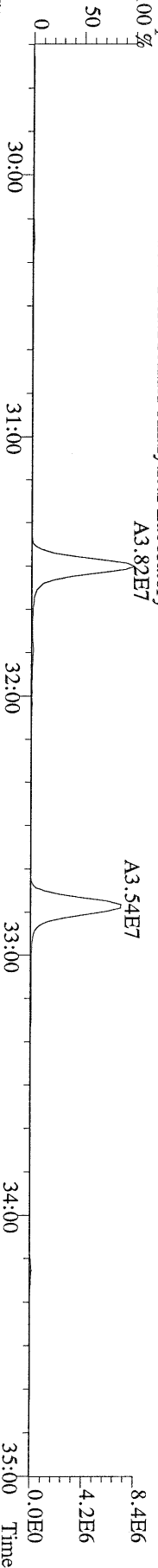
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



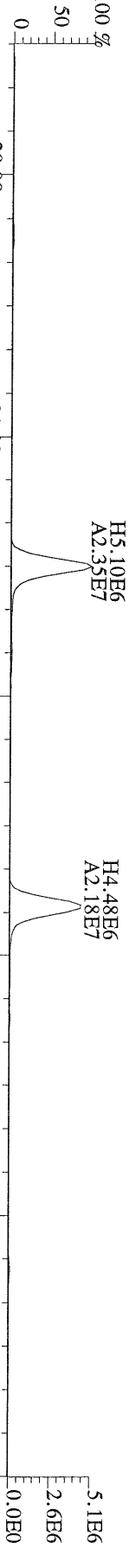
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341.8568 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



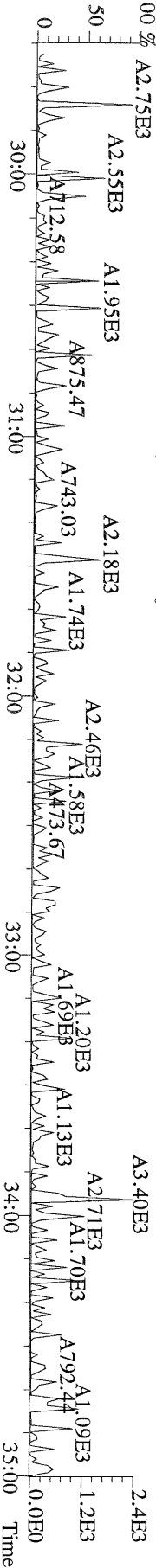
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351.9000 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



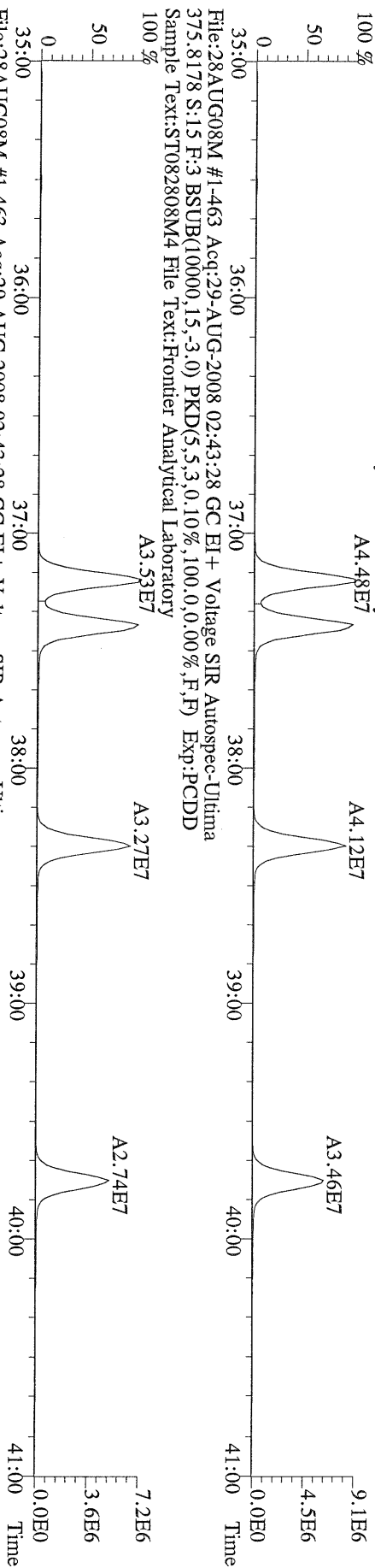
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353.8970 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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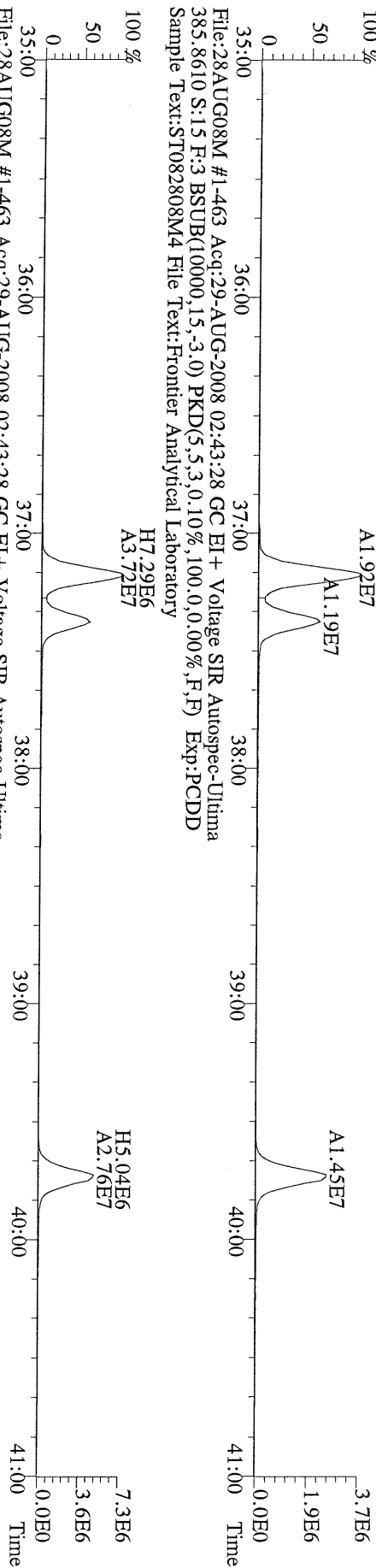
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409.7974 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



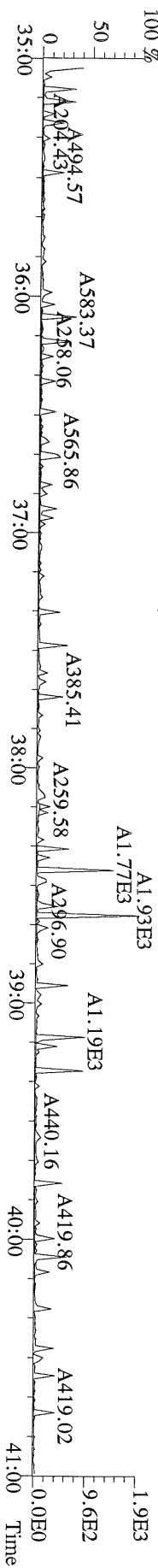
File:28AUG08M #1-463 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



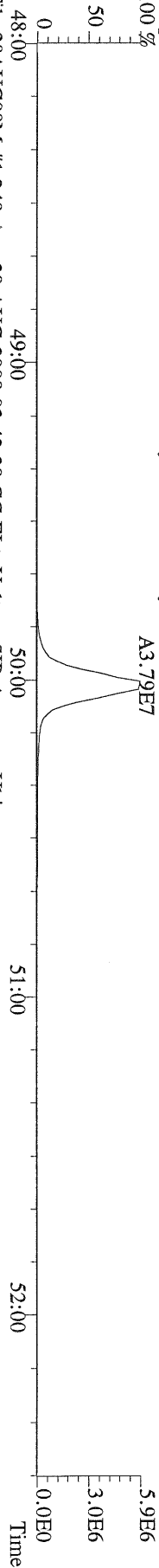
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383.8639 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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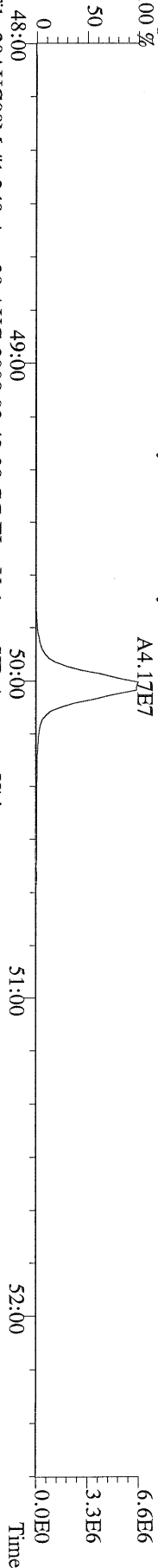
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445.7555 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



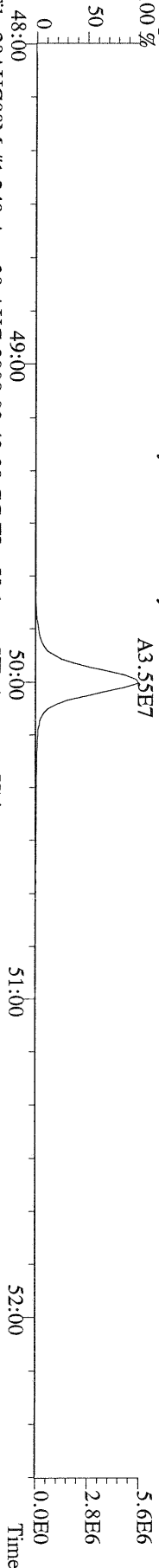
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441.7428 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



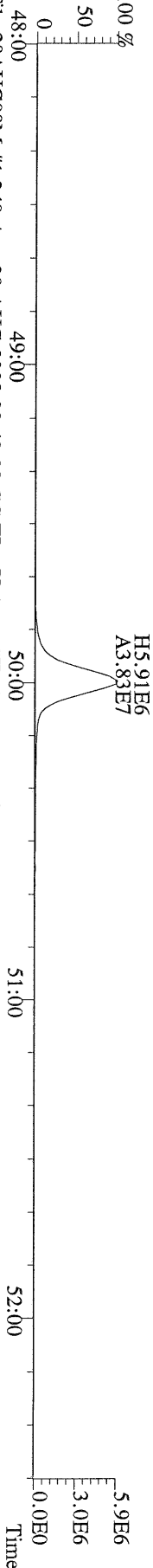
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



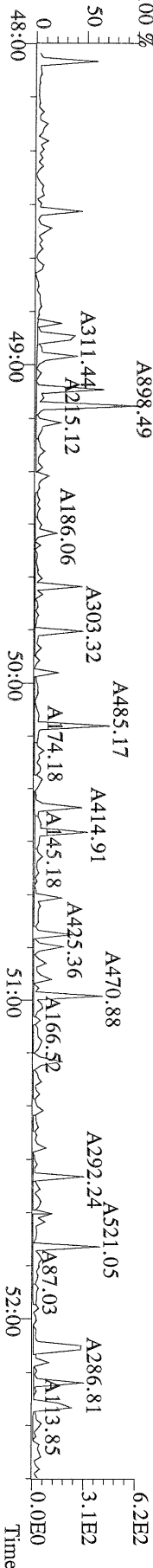
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453.7831 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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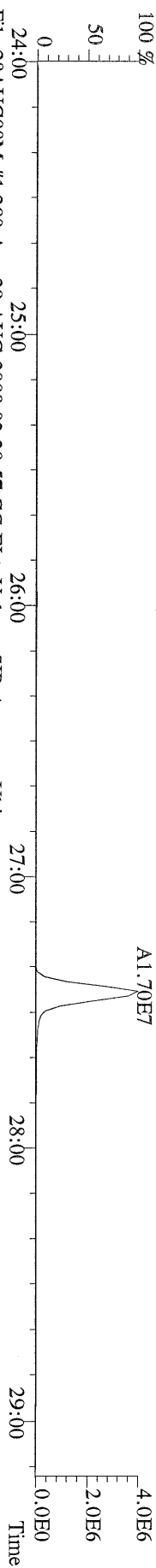
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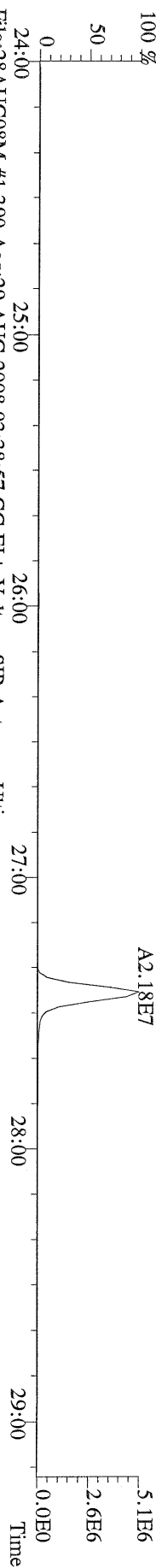
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513.6775 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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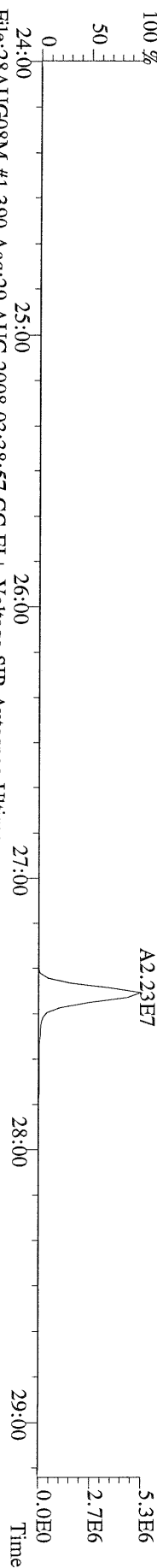
File:28AUG08M #1-390 Acq:29-AUG-2008 03:38:57 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



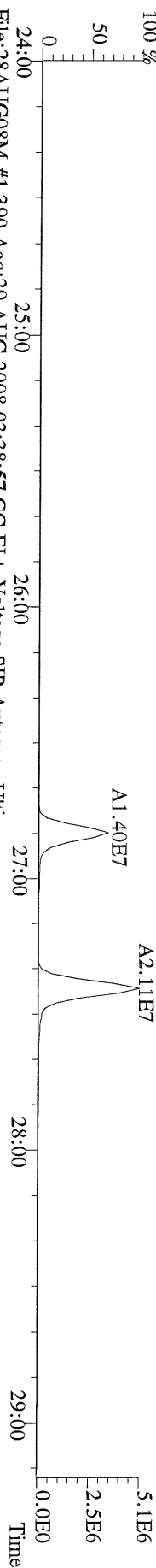
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321.8936 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



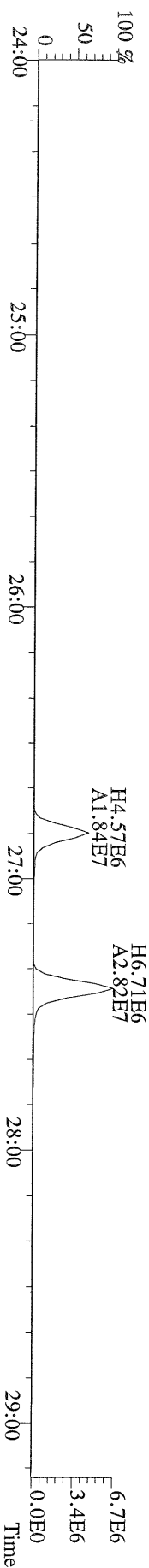
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327.8847 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



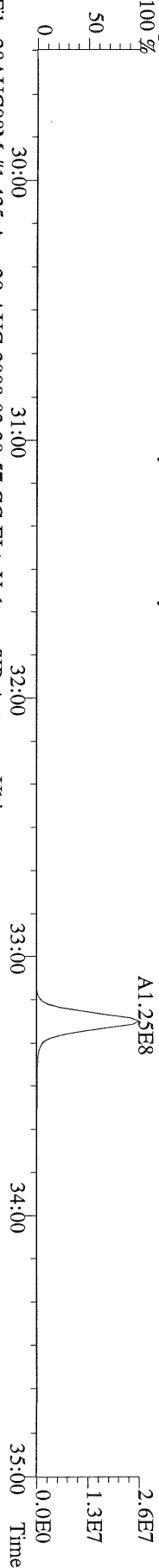
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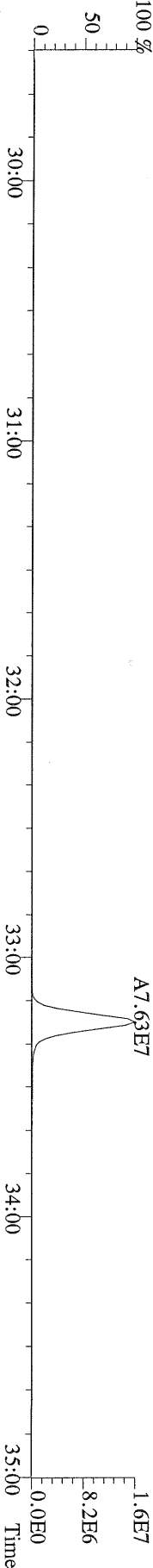
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333.9339 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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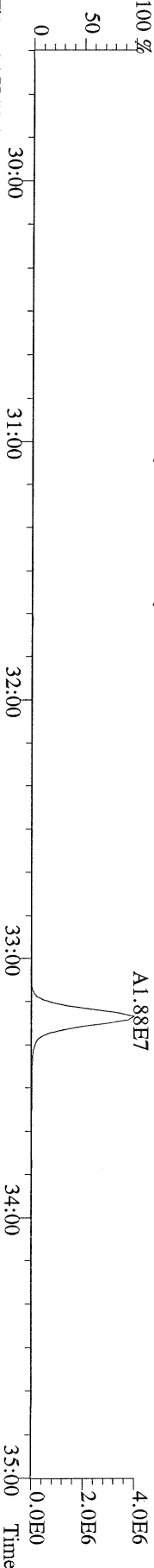
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355.8546 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
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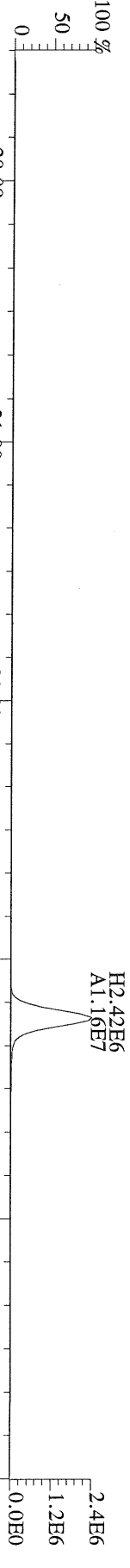
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357.8517 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



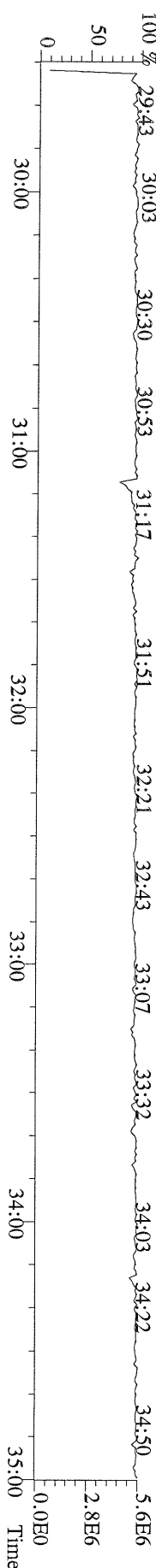
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367.8949 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



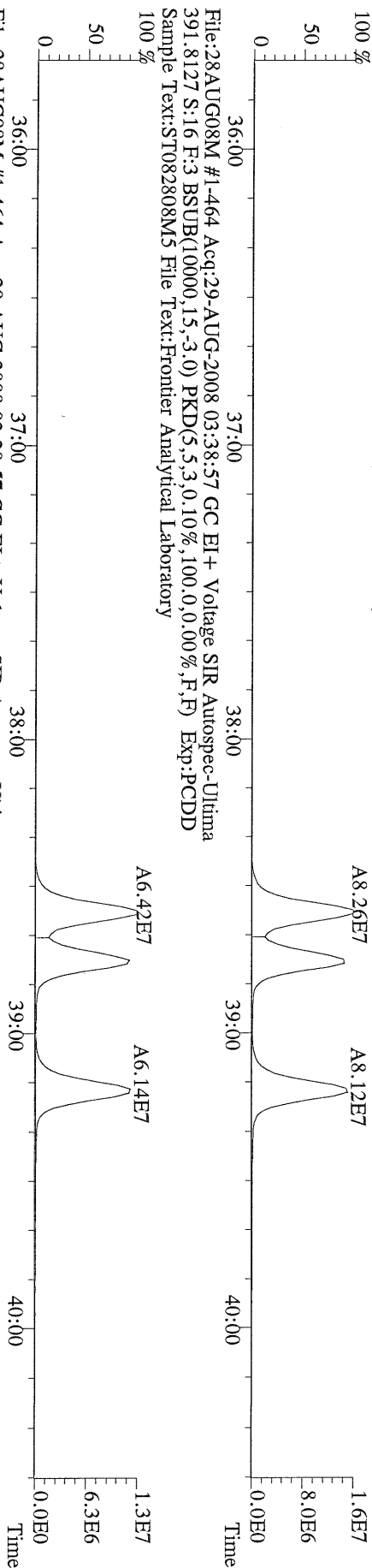
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369.8919 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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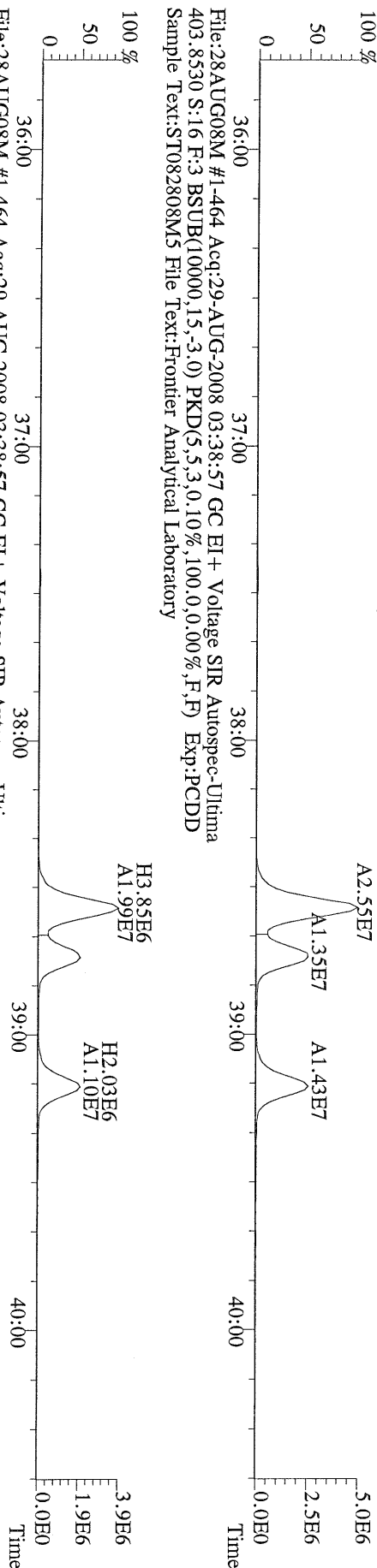
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366.9792 S:16 F:2 Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



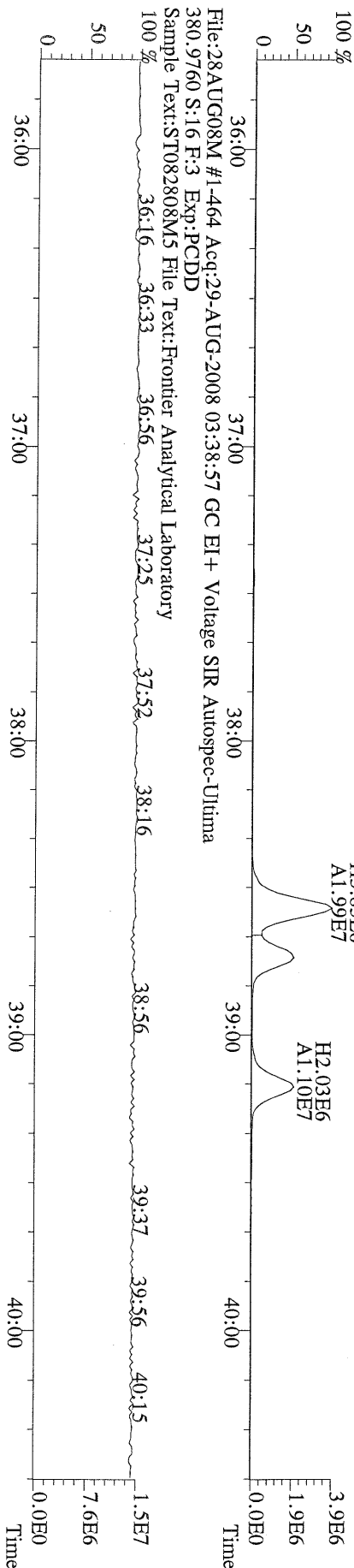
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389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



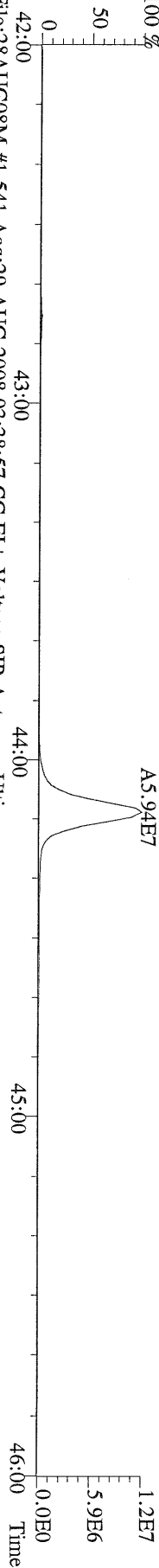
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401.8559 S:16 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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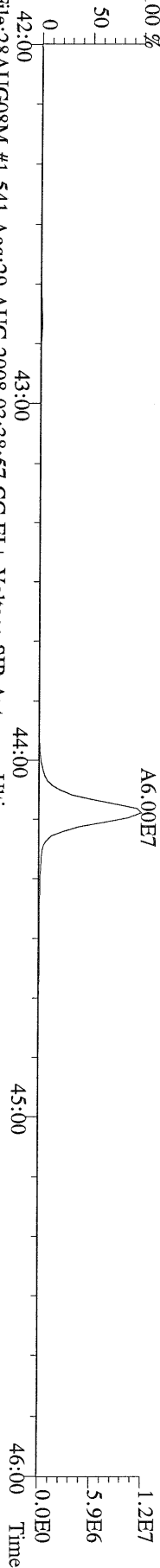
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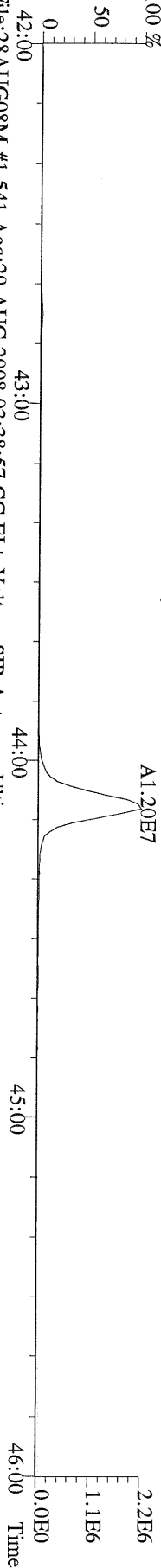
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423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



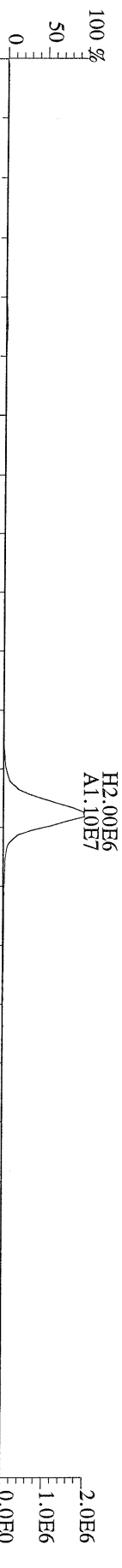
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425.7737 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



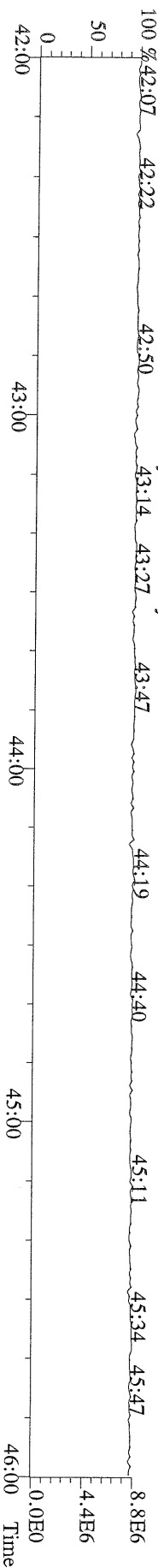
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435.8169 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



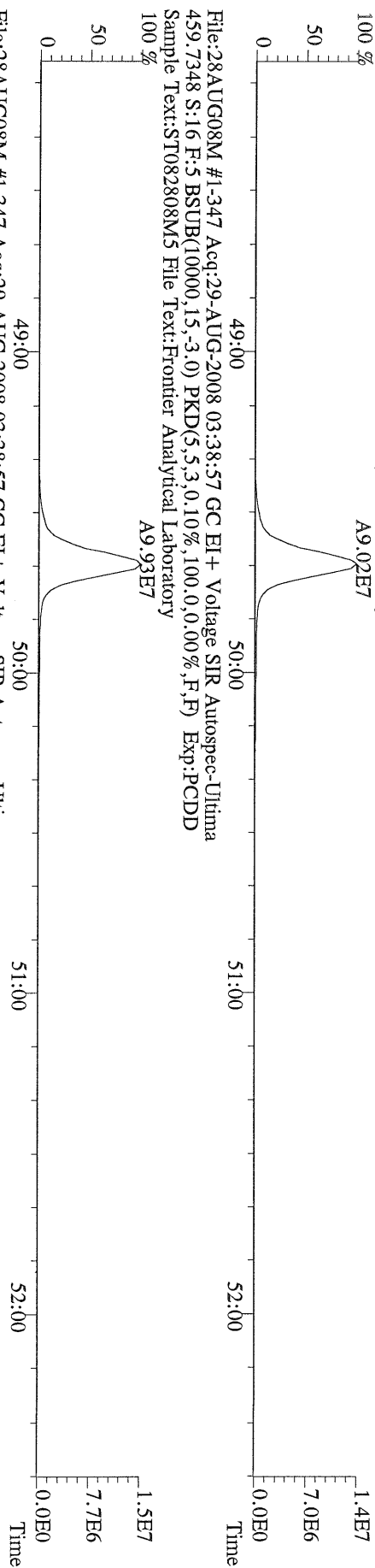
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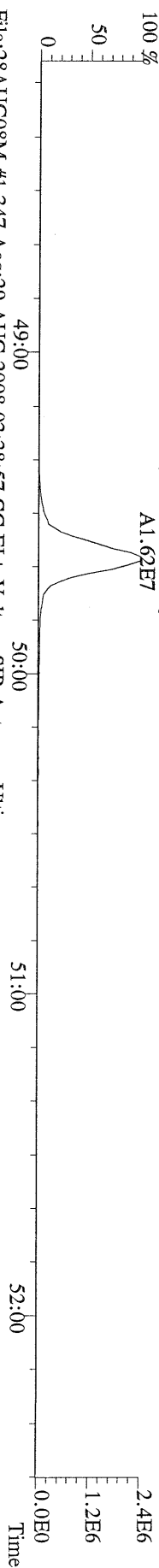
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430.9728 S:16 F:4 Exp:PCDD
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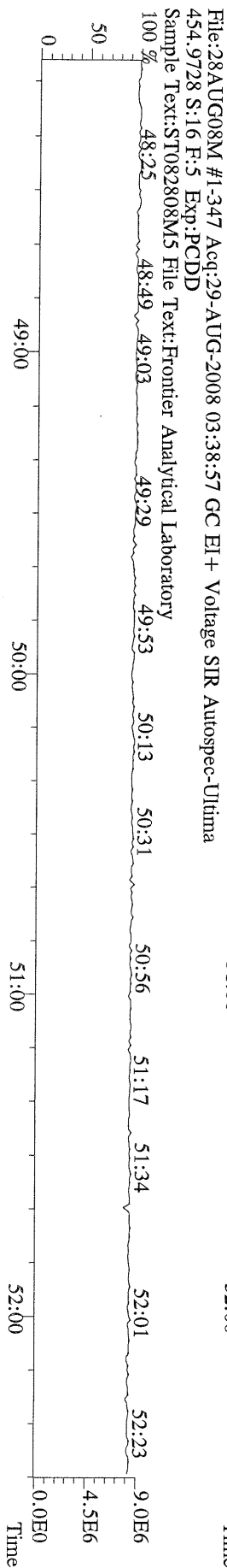
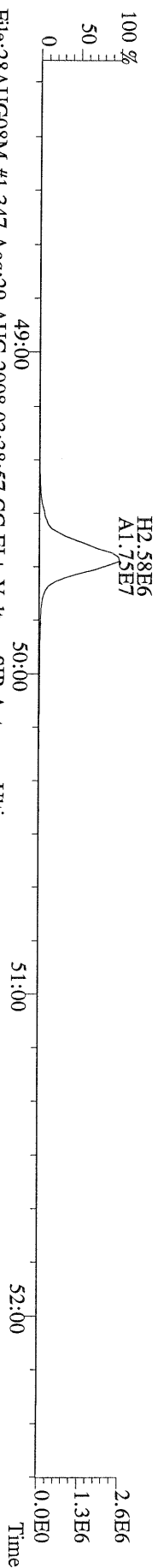
File:28AUG08M #1-347 Acq:29-AUG-2008 03:38:57 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



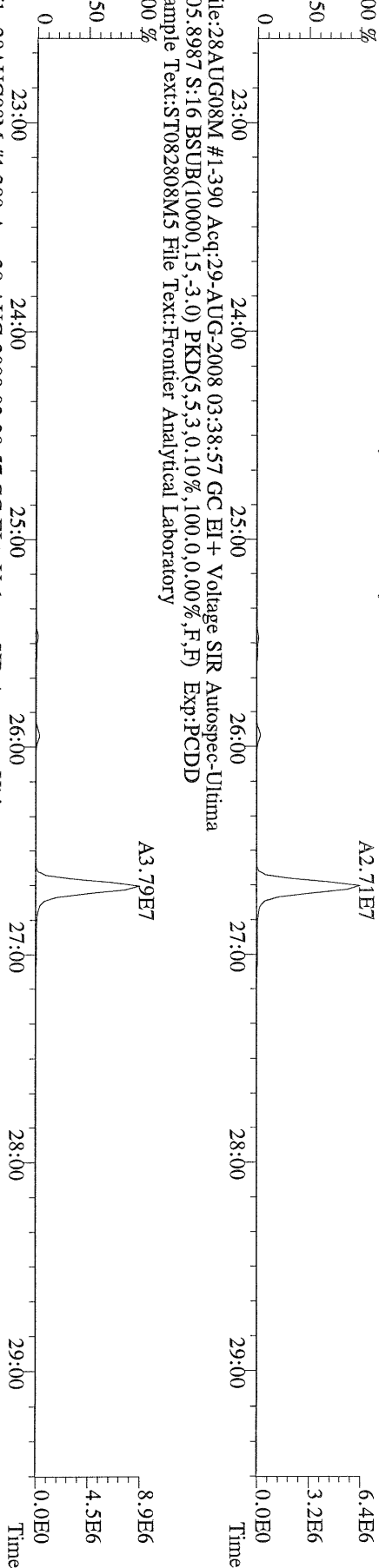
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469.7780 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



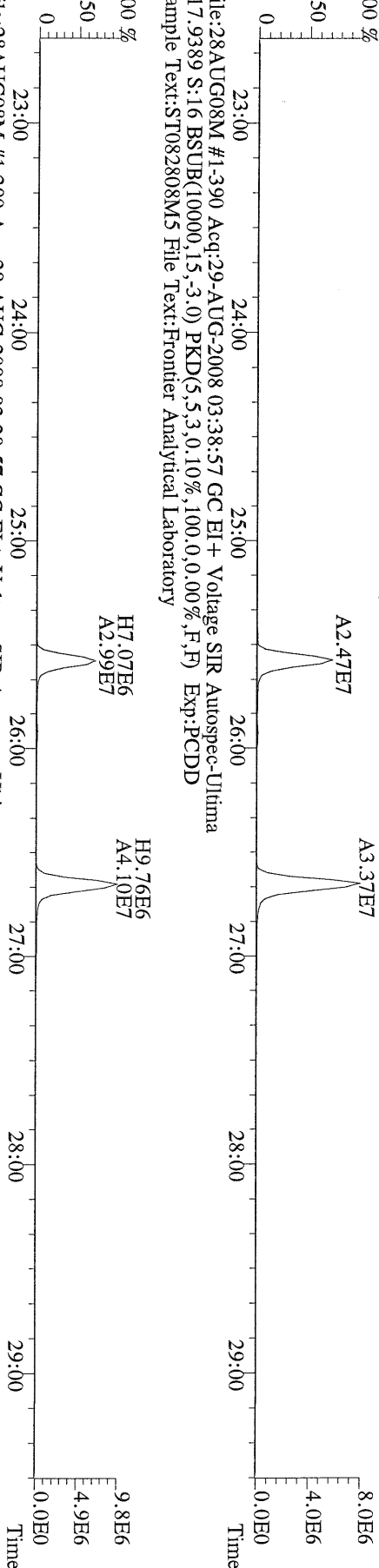
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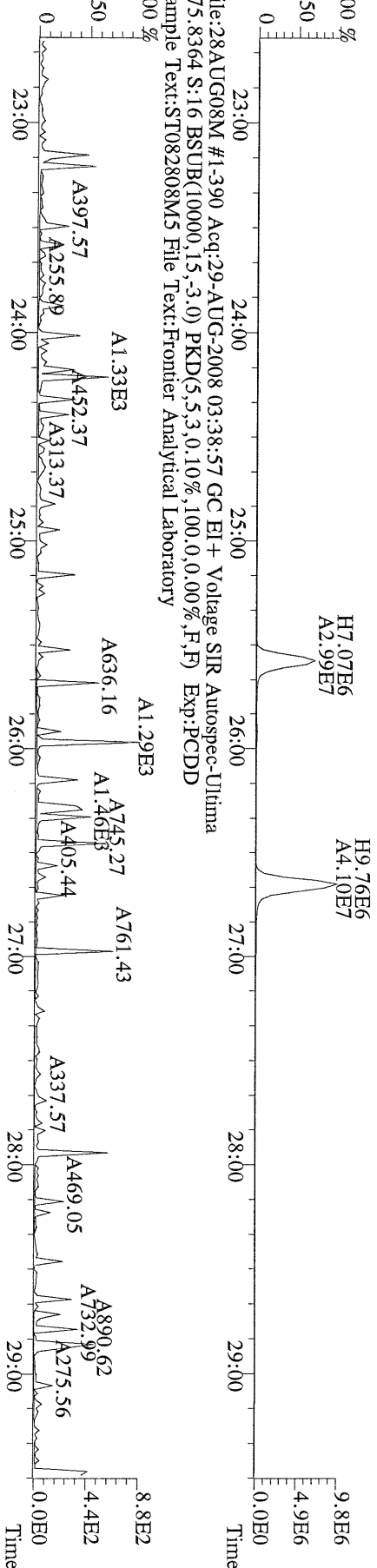
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303.9016 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-390 Acq:29-AUG-2008 03:38:57 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
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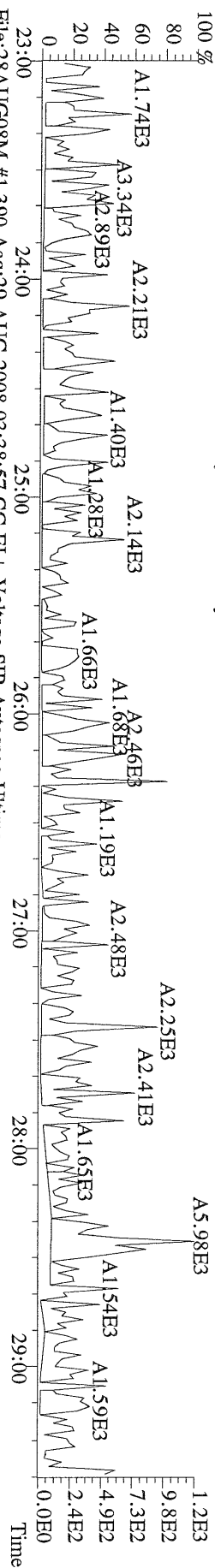


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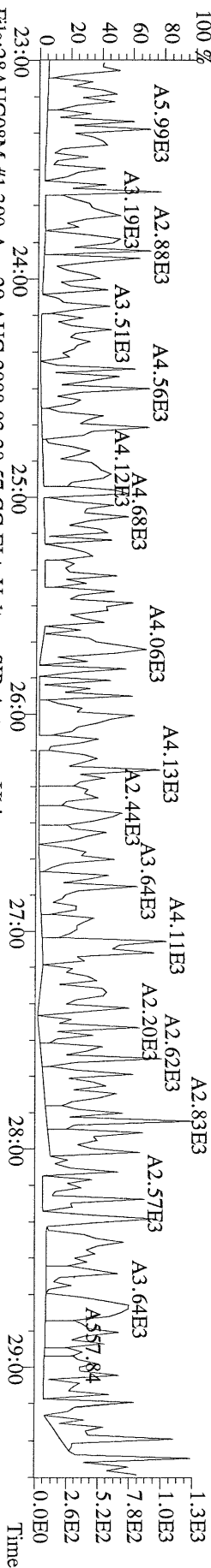


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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory

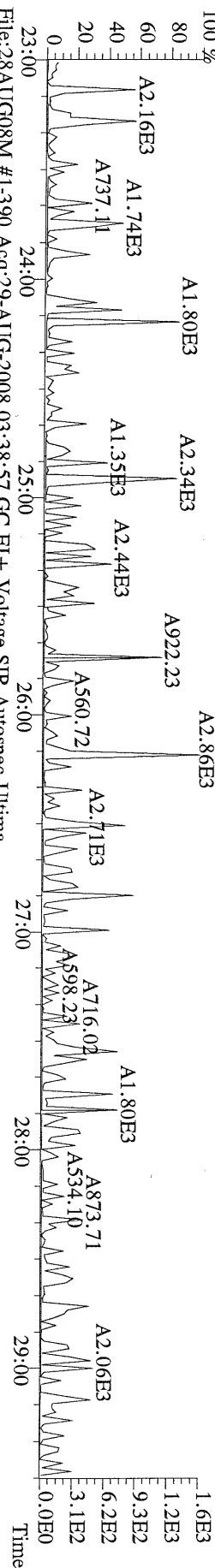
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



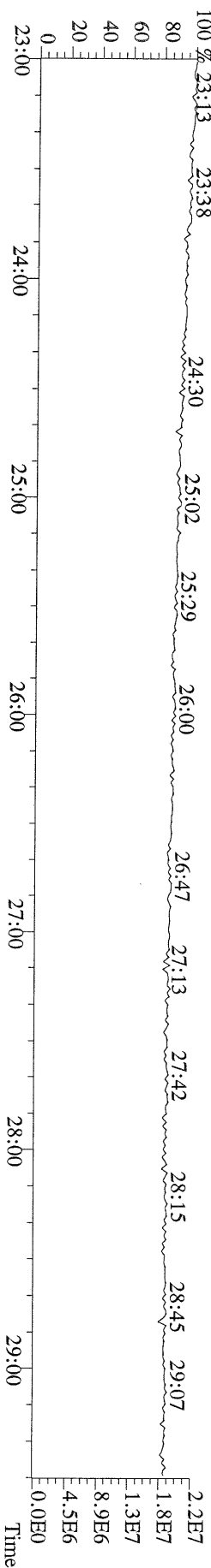
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



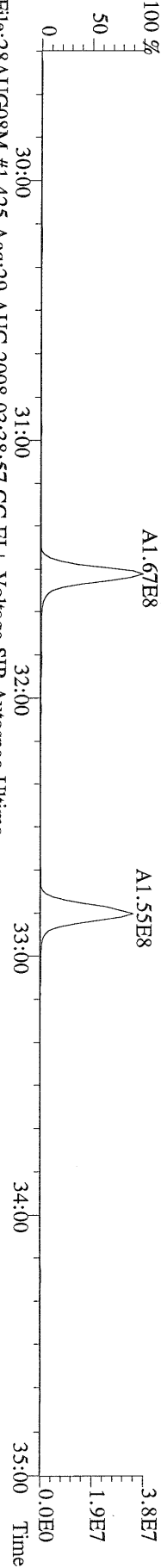
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409.7974 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



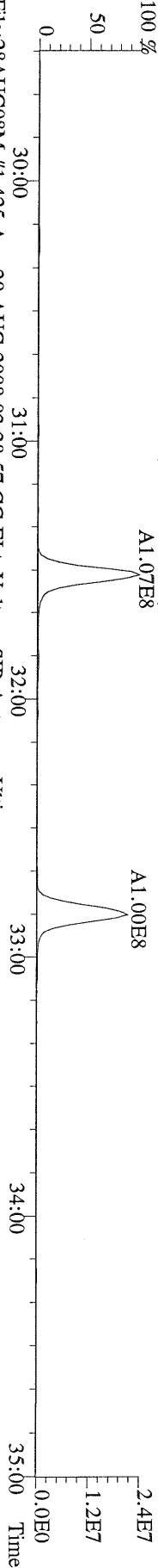
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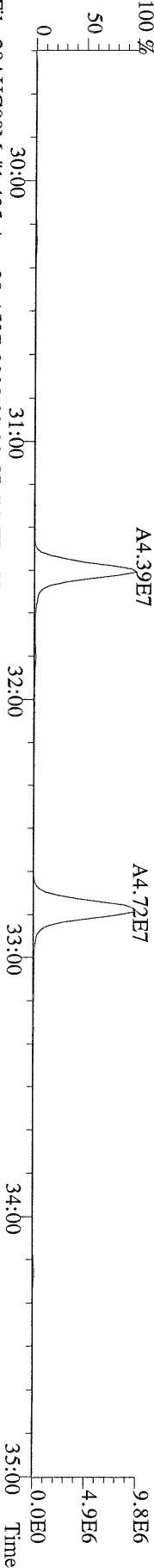
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



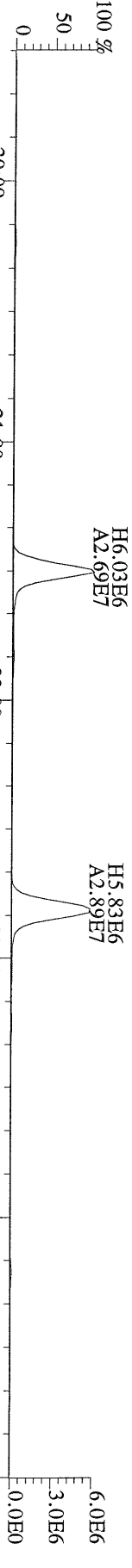
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



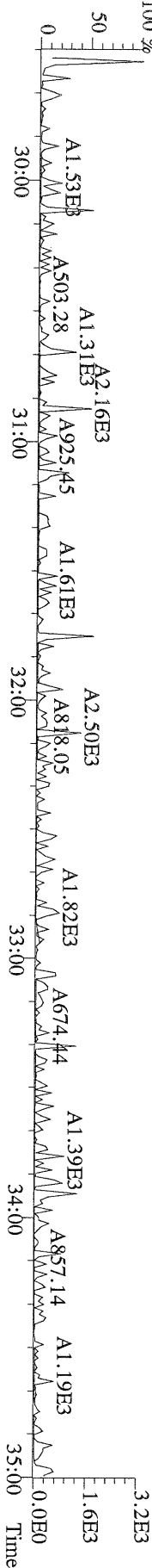
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351.9000 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



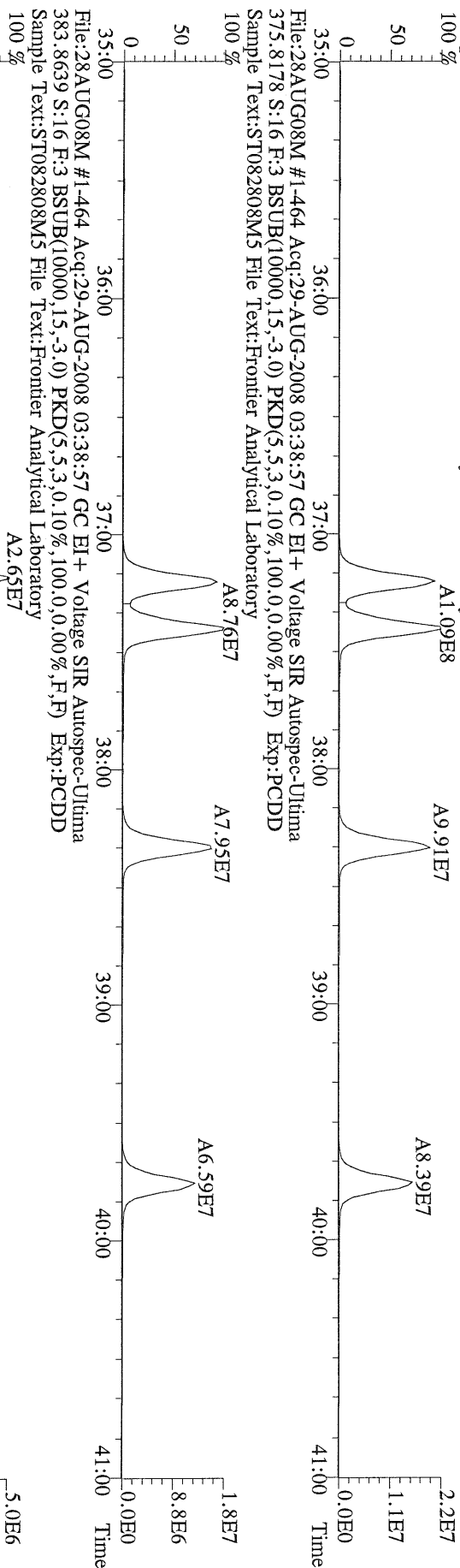
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



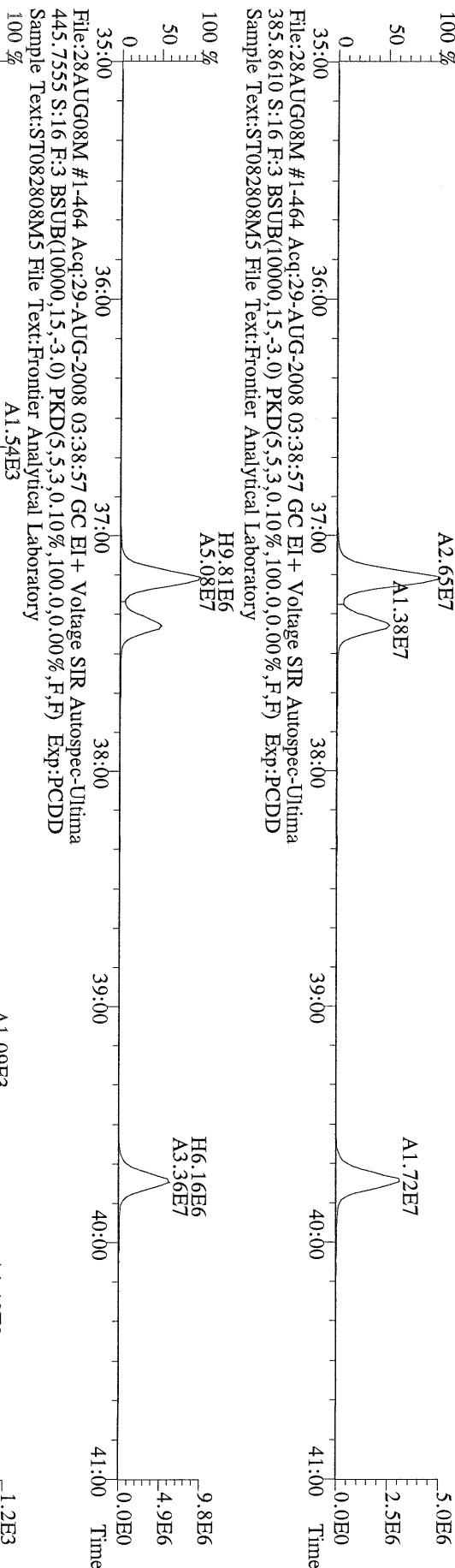
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



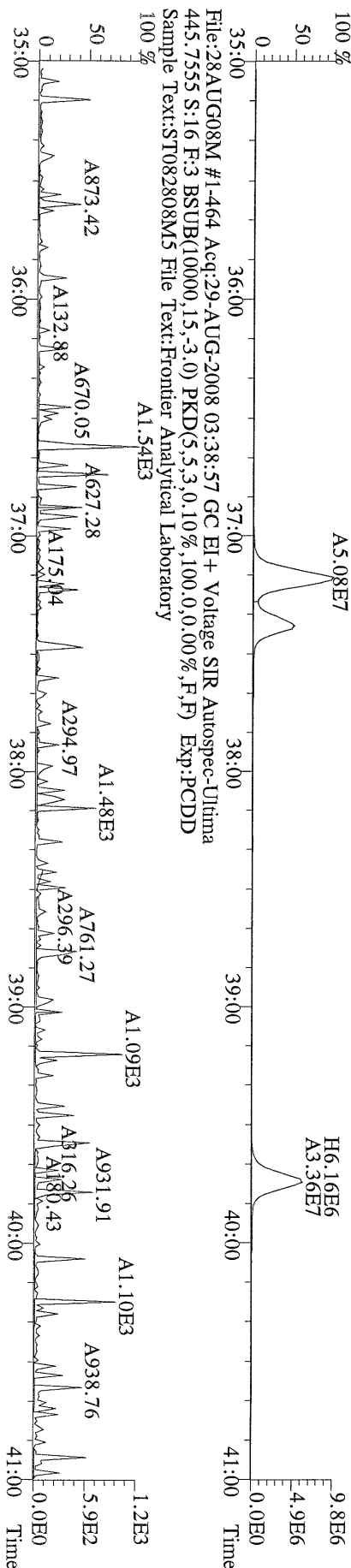
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373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



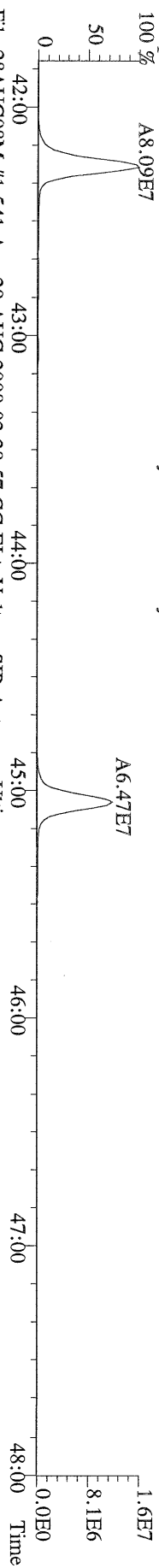
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383.8639 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



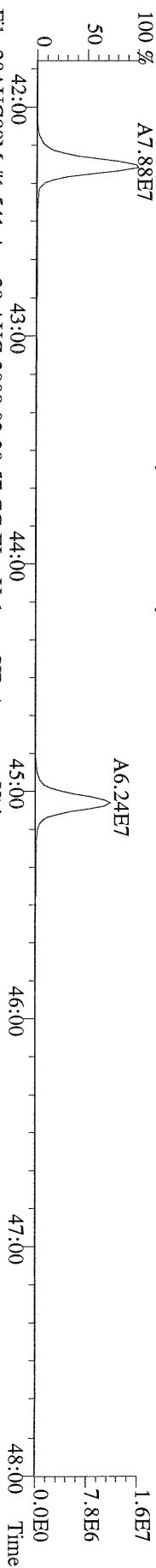
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445.7555 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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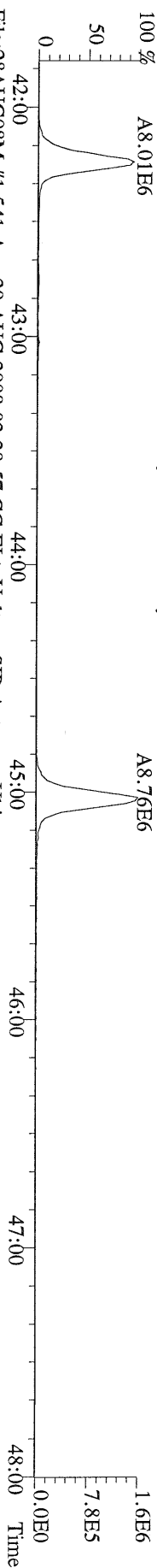
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407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



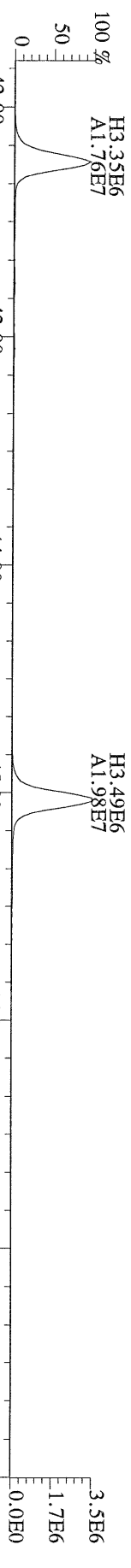
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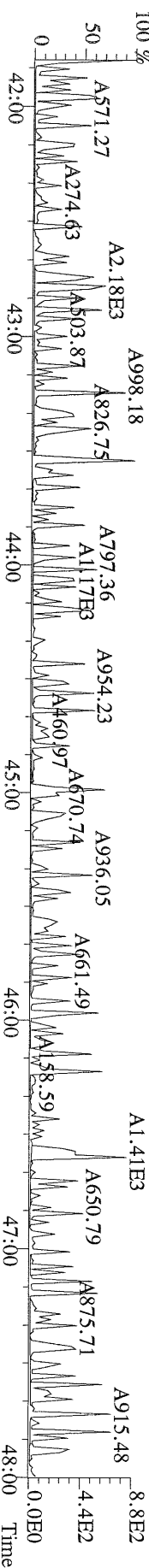
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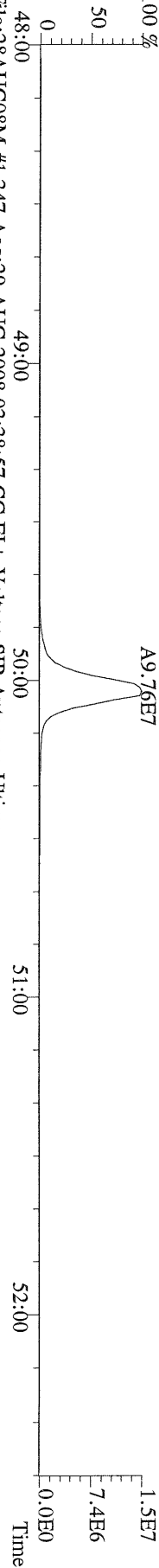
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



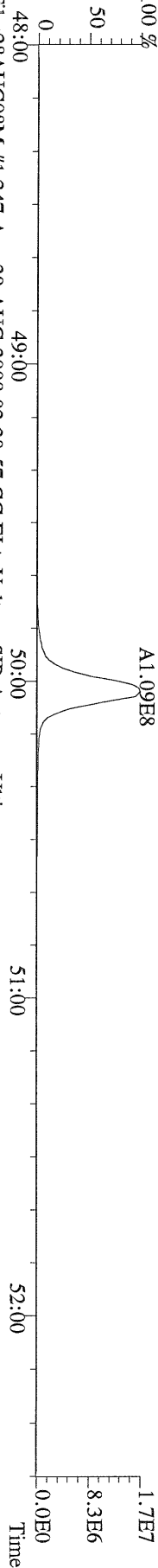
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



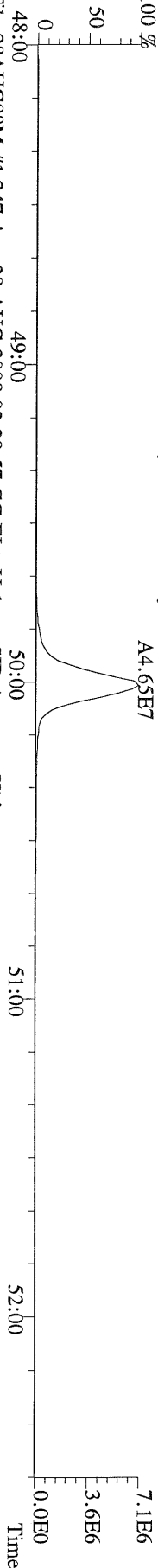
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



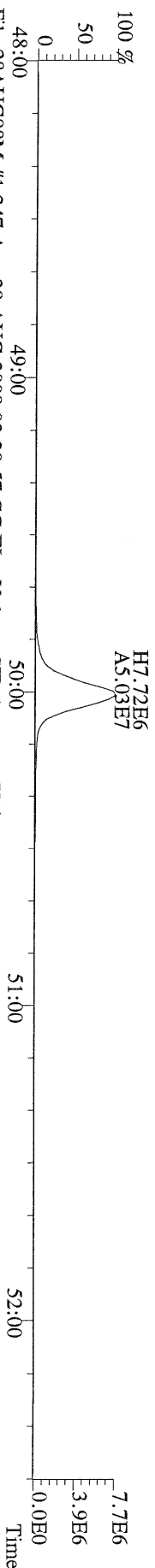
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



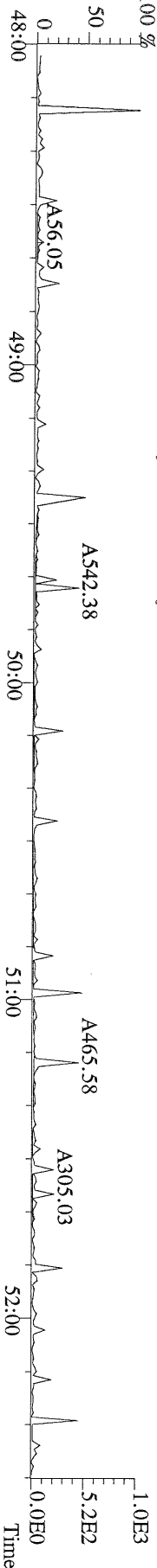
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %

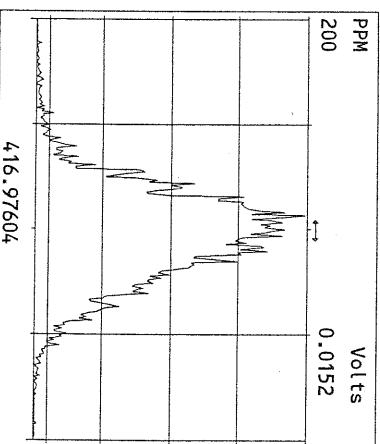
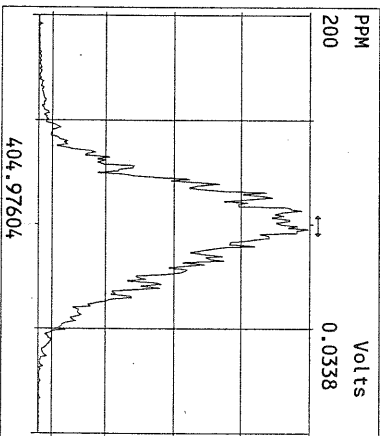
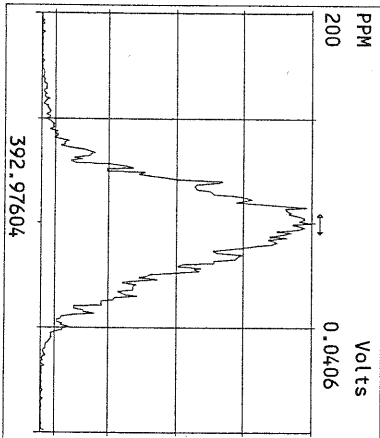
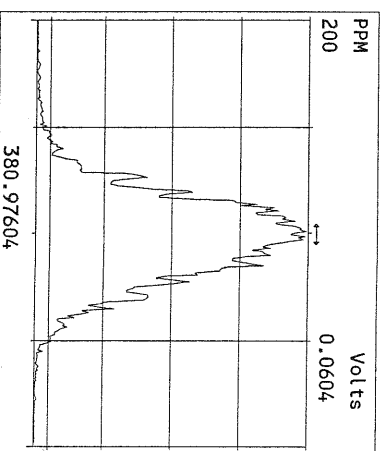
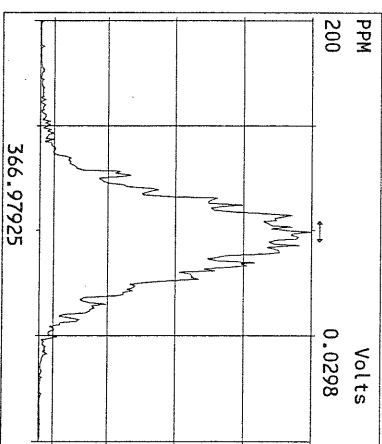
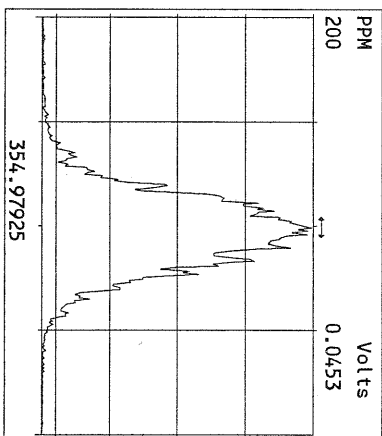
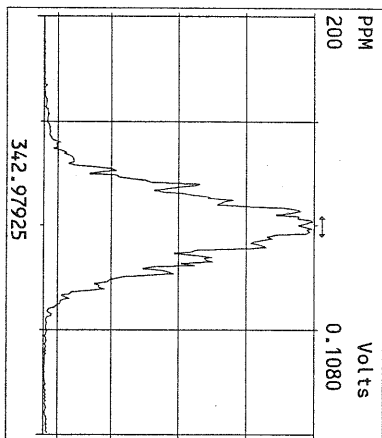
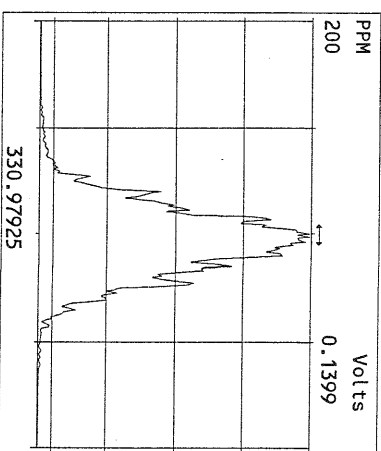
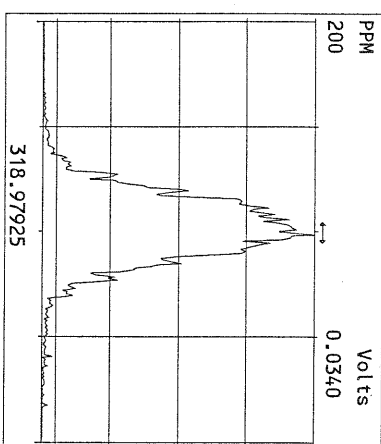
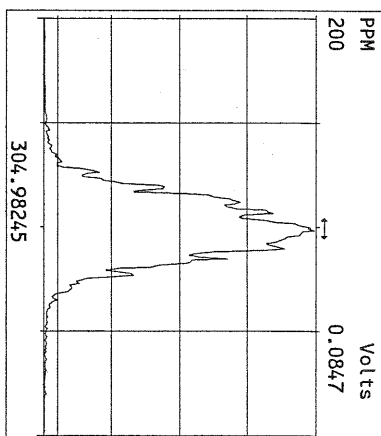
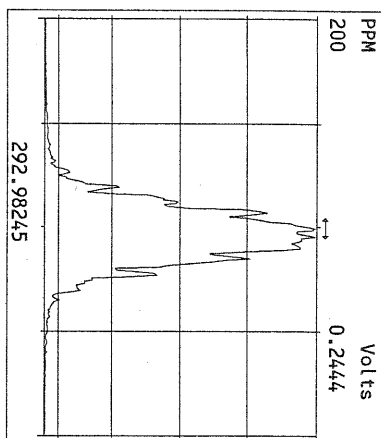


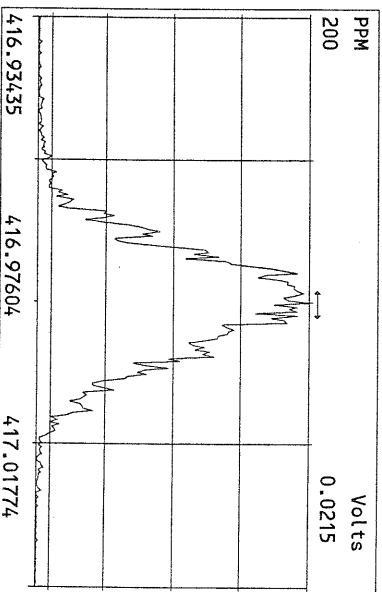
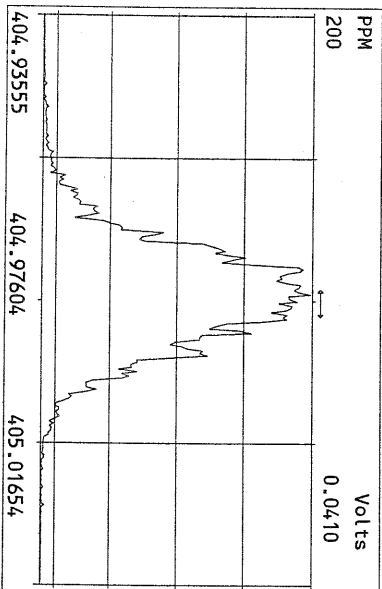
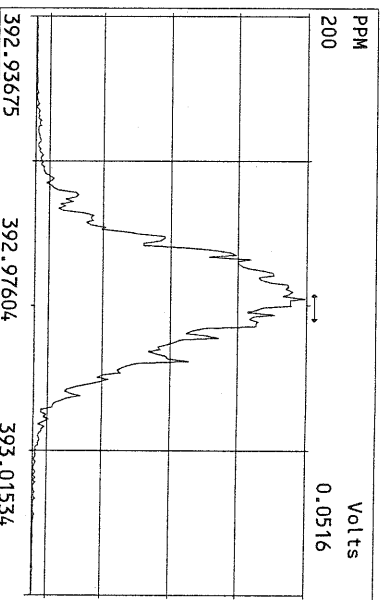
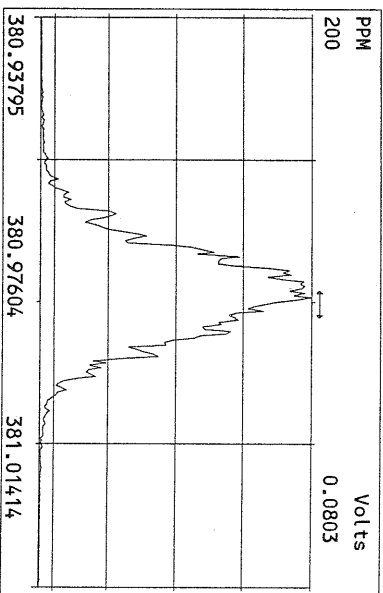
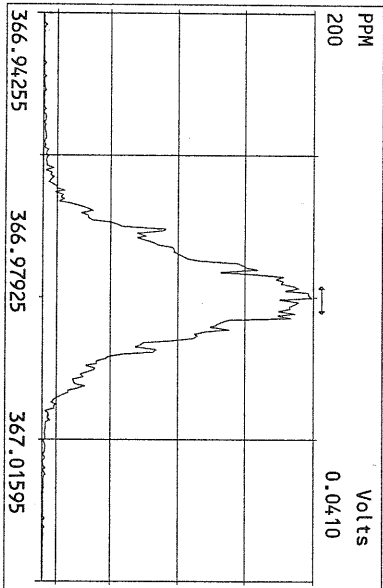
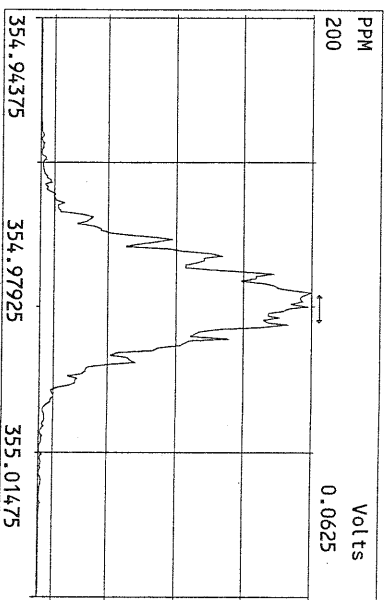
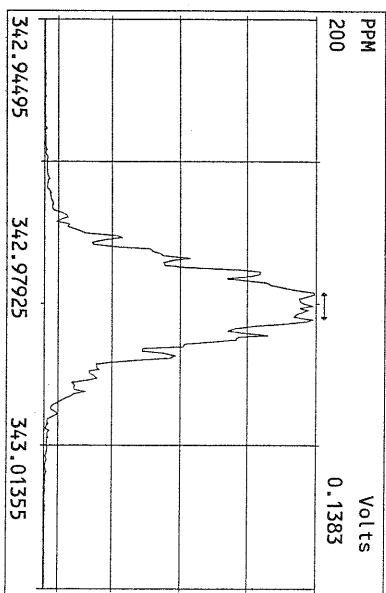
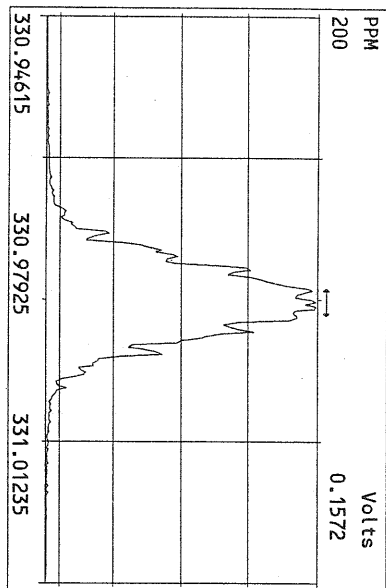
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory

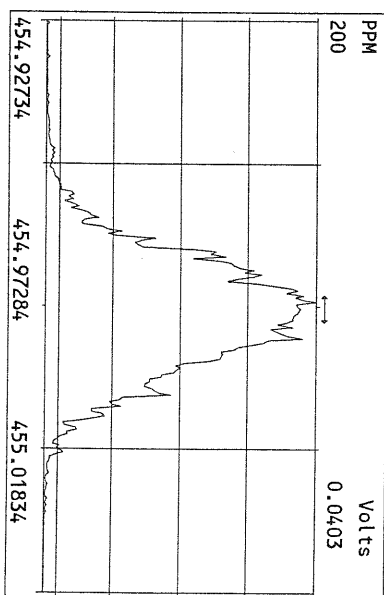
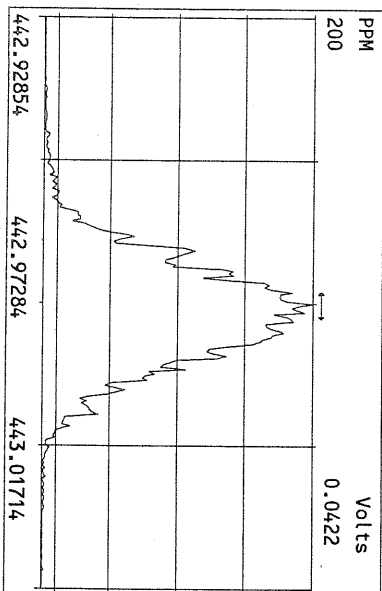
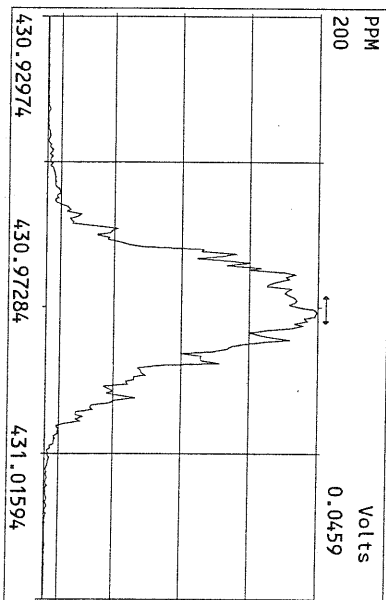
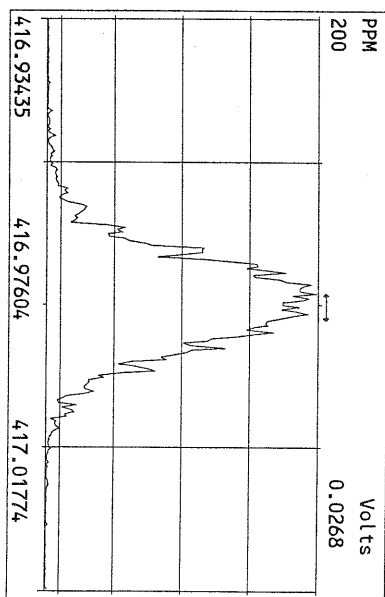
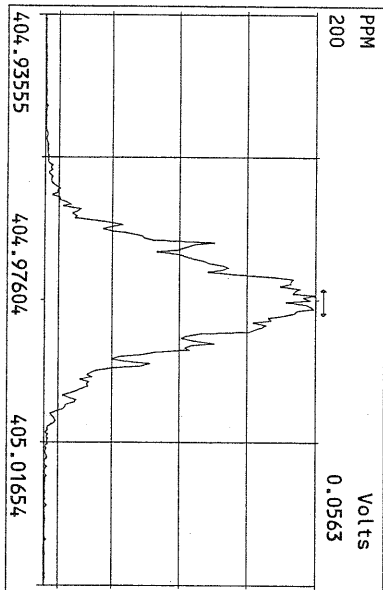
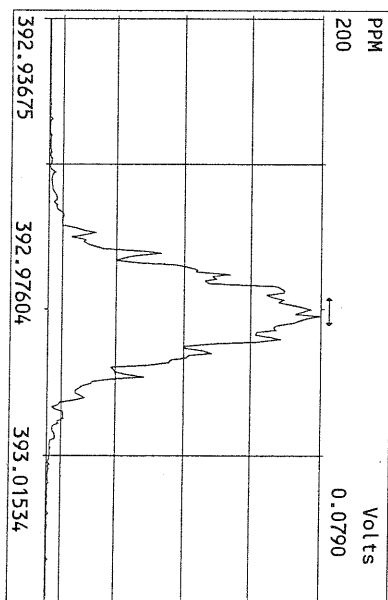
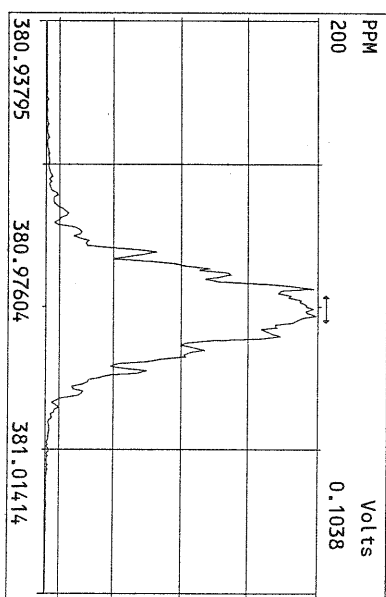
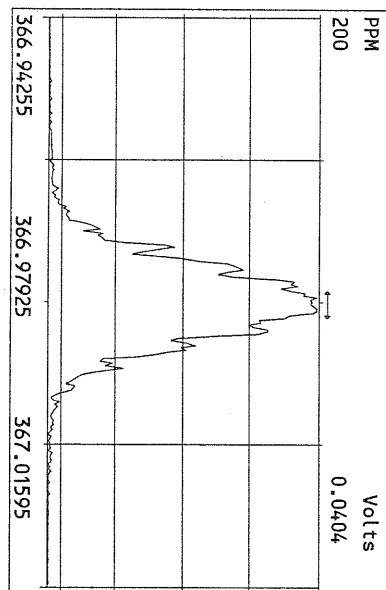


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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %

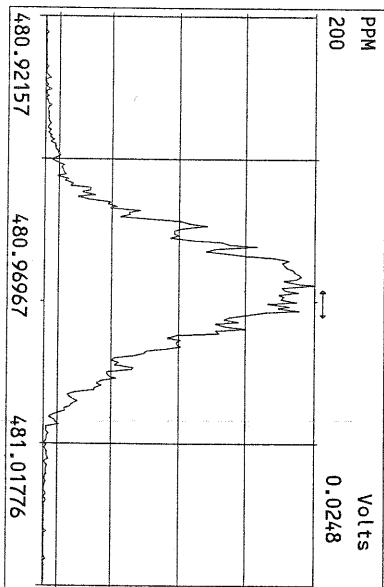
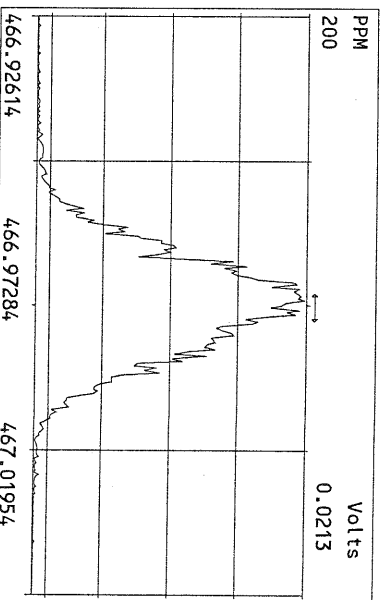
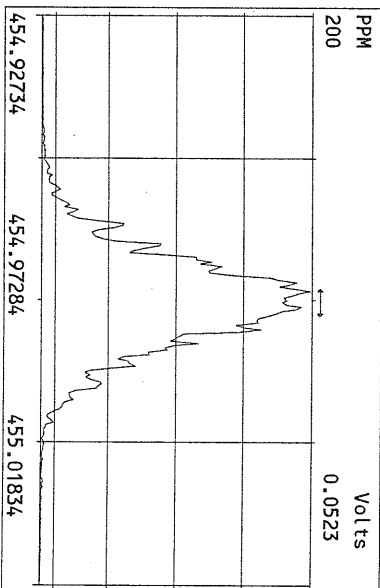
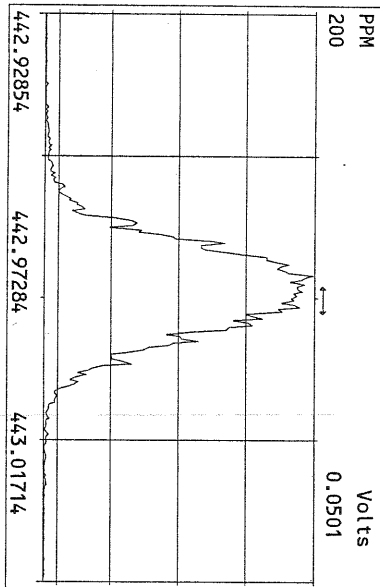
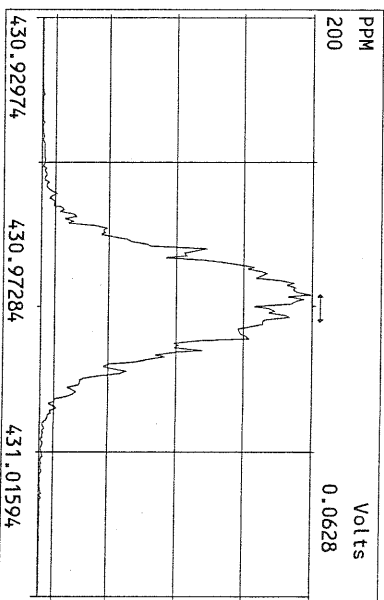
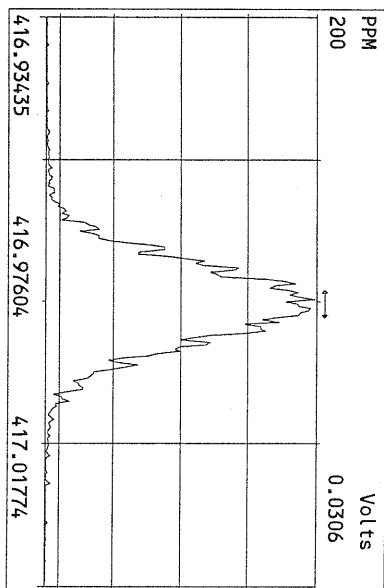
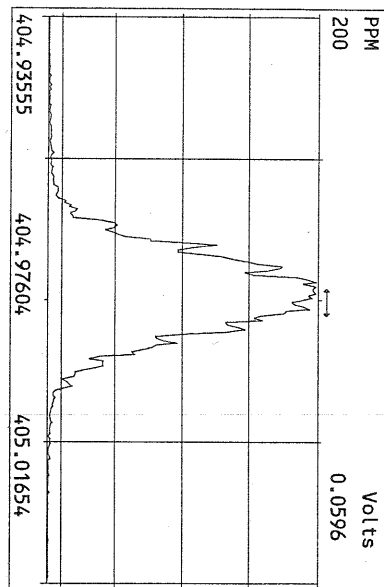


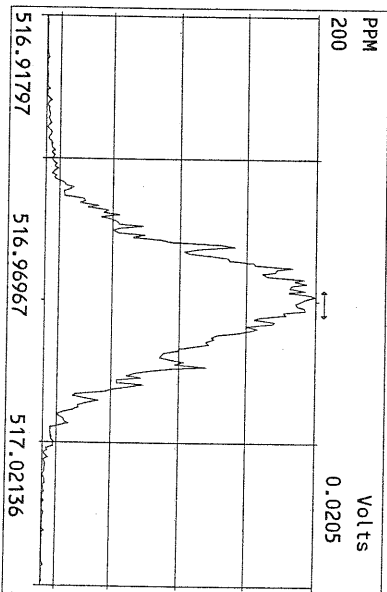
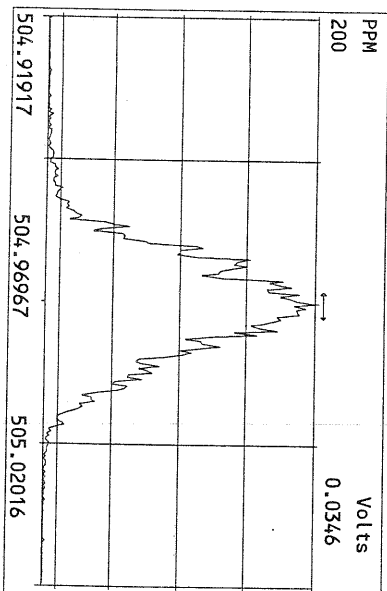
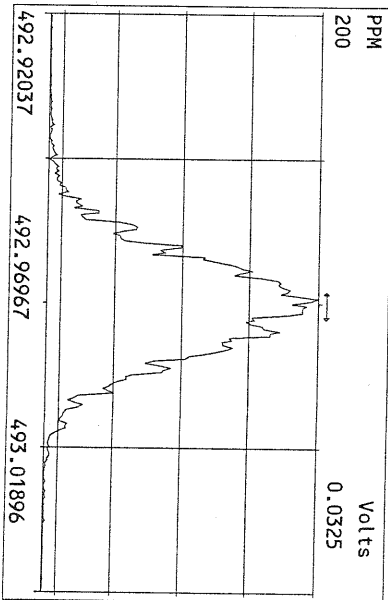
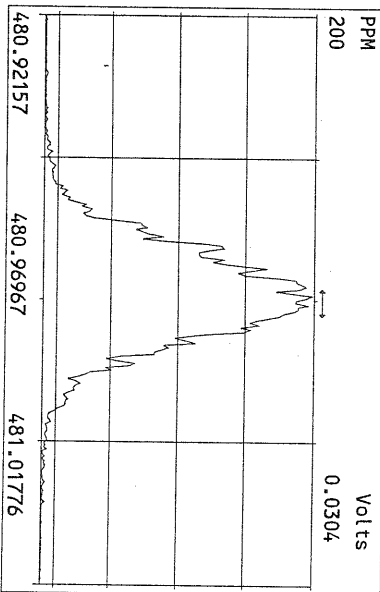
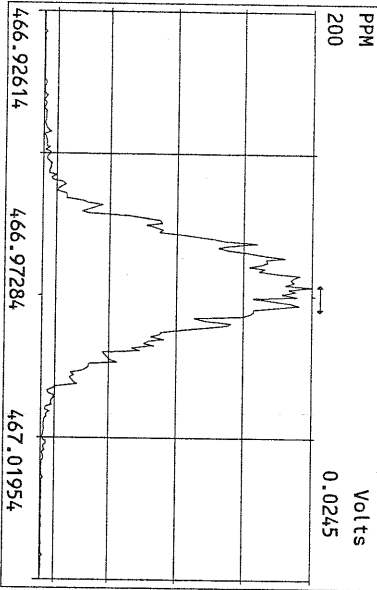
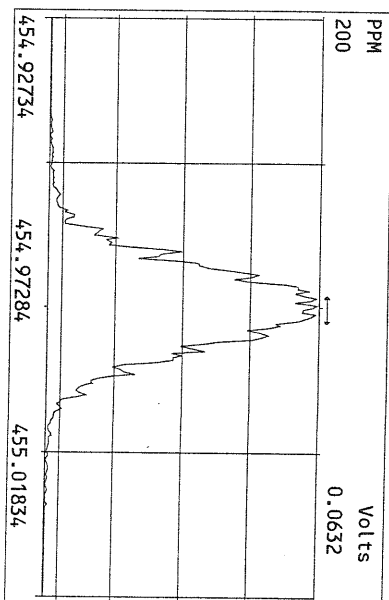
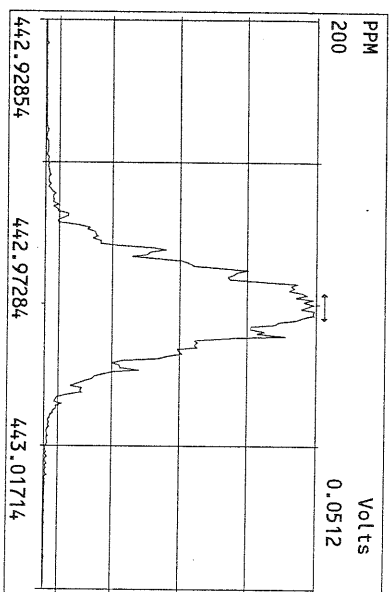
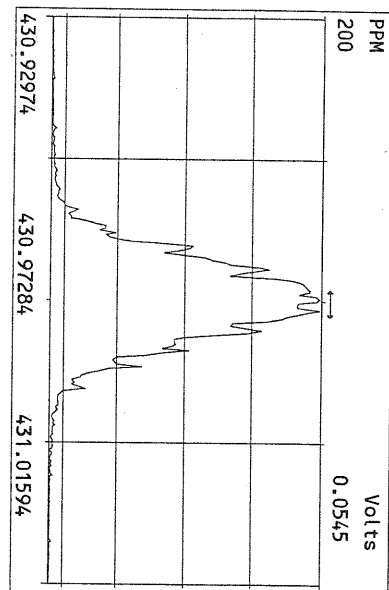






Peak Locate Examination: 29-AUG-2008:04:41 File: 28AUG08M_RES_CHECK
 Experiment: PCD Function: 4 Reference: PFK





AIR FORM 4A
 PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08


Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 14NOV08M Sam:1

Analysis Date: 14-NOV-08 16:13:41

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	3.97	3.75 - 6.25 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.68	1.32-1.78	y	20.5	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	20.7	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.32	1.05-1.43	y	22.6	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	21.9	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.97	0.88-1.20	y	23.1	18.7 - 31.2 ✓
OCDD	M+2/M+4	0.92	0.76-1.02	y	49.5	37.5 - 62.5 ✓
2,3,7,8-TCDF	M/M+2	0.67	0.65-0.89	y	4.39	3.75 - 6.25 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	23.2	18.7 - 31.2 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	22.6	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	18.8	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	20.2	18.7 - 31.2 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	19.5	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.30	1.05-1.43	y	18.8	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	22.4	18.7 - 31.2 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88-1.20	y	21.8	18.7 - 31.2 ✓
OCDF	M+2/M+4	0.90	0.76-1.02	y	38.9	35.0 - 65.0 ✓

Analyst: 

Date: 11/17/08

USEPA - ITD

AIR FORM 4B
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 14NOV08M Sam:1

Analysis Date: 14-NOV-08 16:13:41

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	95.2	75.0 - 125 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.32-1.78	y	85.1	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	107	75.0 - 125 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.11	0.88-1.20	y	98.1	70.0 - 130 ✓
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	186	140 - 260 ✓
13C-2,3,7,8-TCDF	M/M+2	0.82	0.65-0.89	y	92.1	70.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.67	1.32-1.78	y	85.4	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	114	70.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.40	0.37-0.51	y	91.3	70.0 - 130 ✓
13C-OCDF	M+2/M+4	0.92	0.76-1.02	y	206	140 - 260 ✓
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	99.9	75.0 - 125 ✓
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					97.7	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	93.4	75.0 - 125 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	106	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	93.3	75.0 - 125 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.40	0.37-0.51	y	96.3	75.0 - 125 ✓

Analyst: Date: 11/17/08

Air Form 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 8/29/08
RT Window Data Filename: 14NOV08M Sam:1 Analysis Date: 14-NOV-08 Time: 16:13:41
DB-5 IS Data Filename: 14NOV08M Sam:1 Analysis Date: 14-NOV-08 Time: 16:13:41
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:32 ✓	1,3,6,8-TCDF (F)	23:11 ✓
1,2,8,9-TCDD (L)	28:31 ✓	1,2,8,9-TCDF (L)	28:44 ✓
1,2,4,7,9-PeCDD (F)	30:25 ✓	1,3,4,6,8-PeCDF (F)	28:35 ✓
1,2,3,8,9-PeCDD (L)	33:57 ✓	1,2,3,8,9-PeCDF (L)	34:22 ✓
1,2,4,6,7,9-HxCDD (F)	36:16 ✓	1,2,3,4,6,8-HxCDF (F)	35:24 ✓
1,2,3,7,8,9-HxCDD (L)	39:21 ✓	1,2,3,7,8,9-HxCDF (L)	39:55 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:56 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:24 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:18 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:13 ✓

(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%.

Analyst:

Date: 11/17/08

Results:	GC Column: DB5	Amount: 1.000	NATO 1989 Tox: 42.1
			WHO 1998 Tox: 52.3

Analyst:

4/17/08

Frontier Analytical Laboratory - Acquisition Log

Run Name:14NOV08M Instrument: FAL3 GC: DB5 Experiment:PCDD

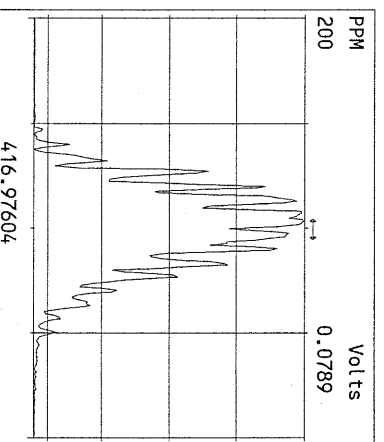
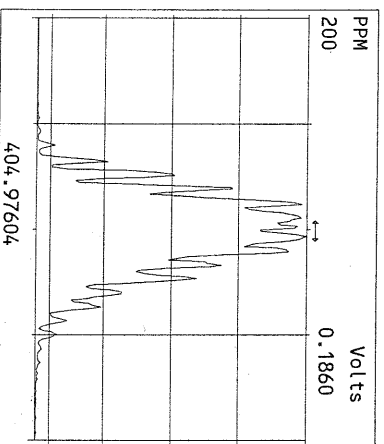
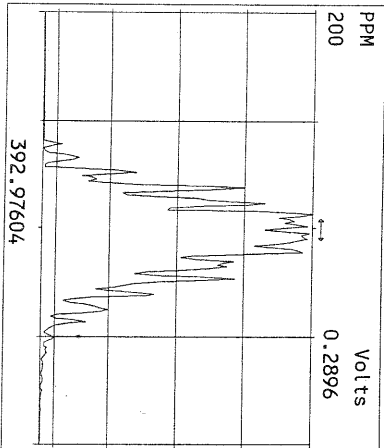
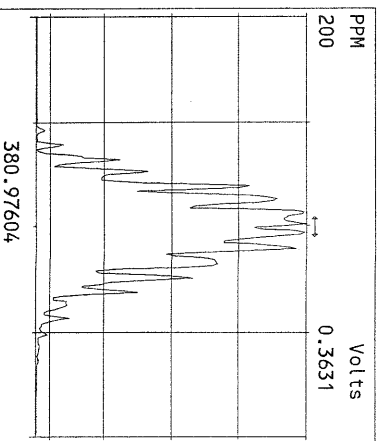
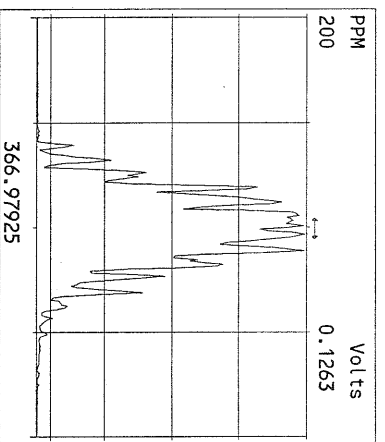
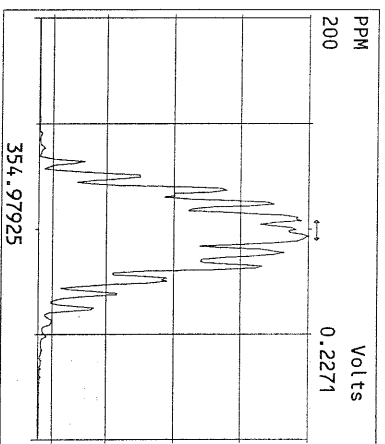
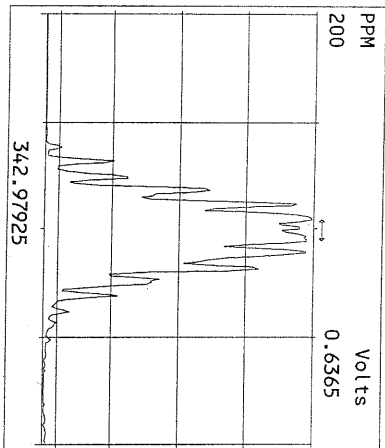
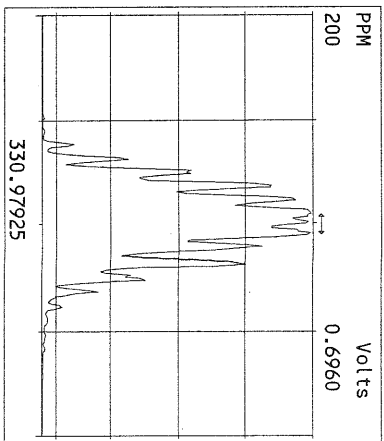
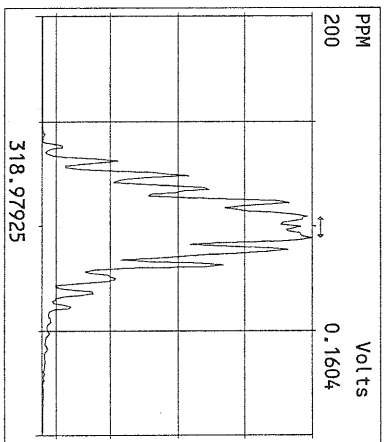
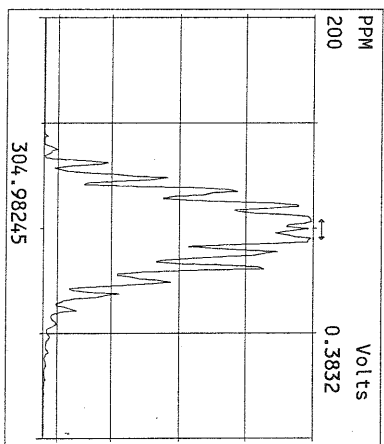
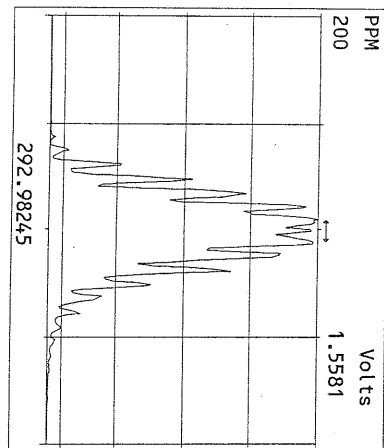
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14NOV08M 3	1565-001-0001-LC2	LCS2	14-NOV-08 18:04:10	ST111408M1	ST111408M2	TC
14NOV08M 4	QC111408M1	QC1	14-NOV-08 18:59:24	ST111408M1	ST111408M2	TC
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14NOV08M 6	5175-001-0001-SA	OFF01-110408	14-NOV-08 20:49:53	ST111408M1	ST111408M2	TC
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14NOV08M 8	SB111408M1	Solvent Blank	14-NOV-08 22:40:23	ST111408M1	ST111408M2	TC
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14NOV08M 10	ST111408M3	1613 CS3 (080827J)	15-NOV-08 00:30:50	ST111408M3	ST111408M4	TC
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14NOV08M 24	SB111408M2	Solvent Blank	15-NOV-08 13:24:11	ST111408M3	ST111408M4	TC
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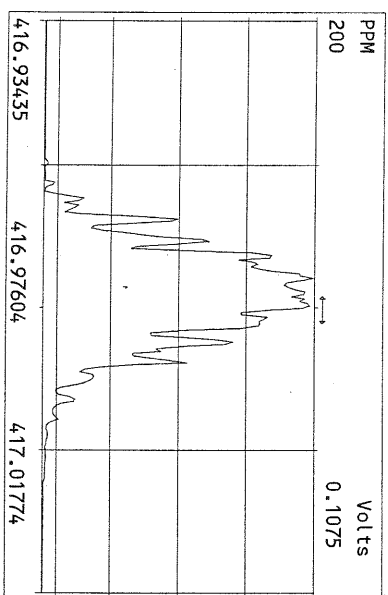
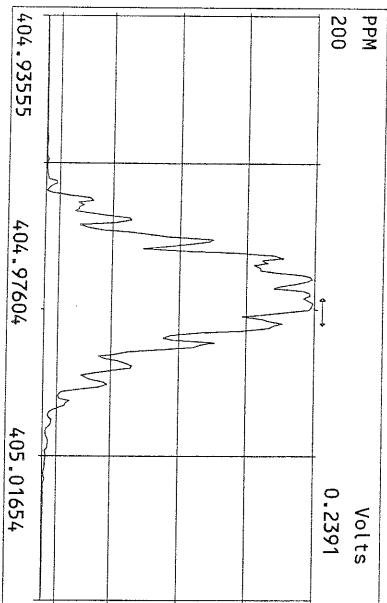
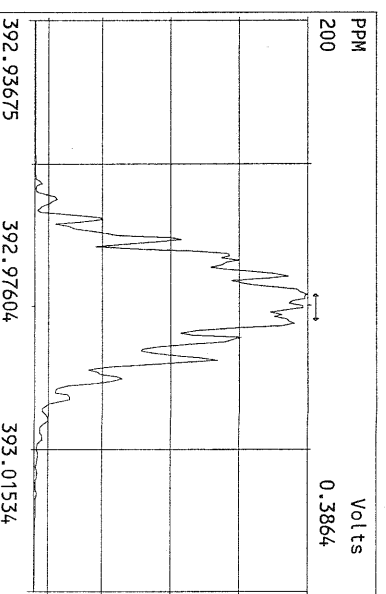
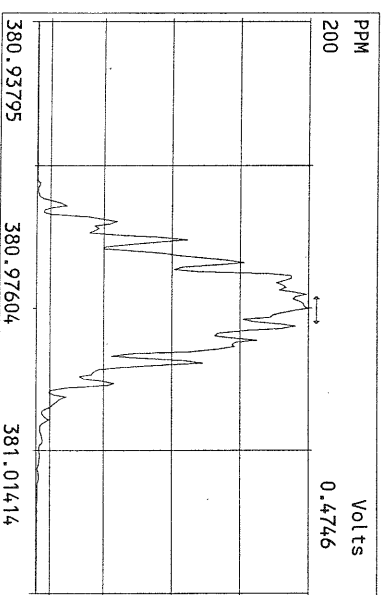
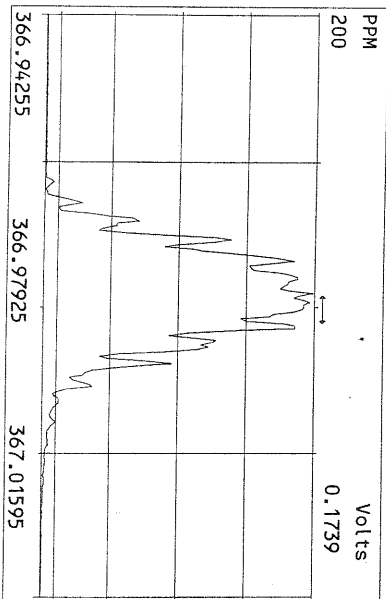
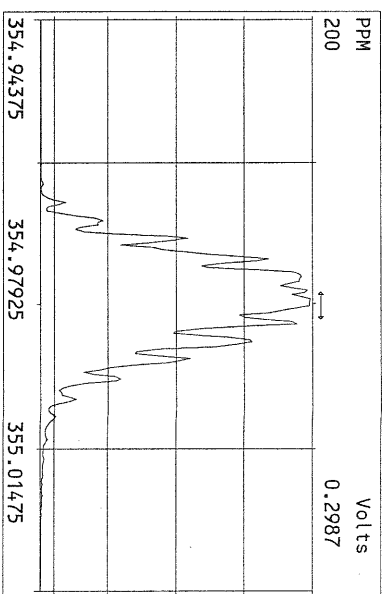
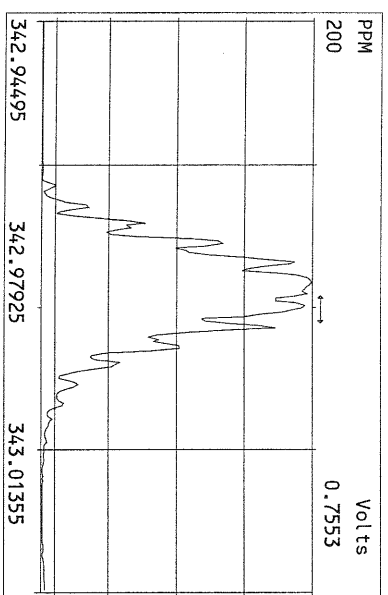
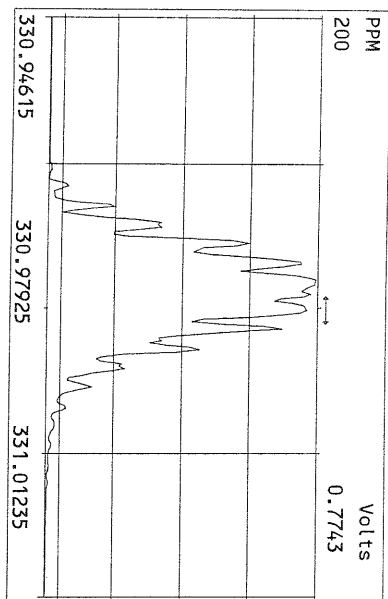


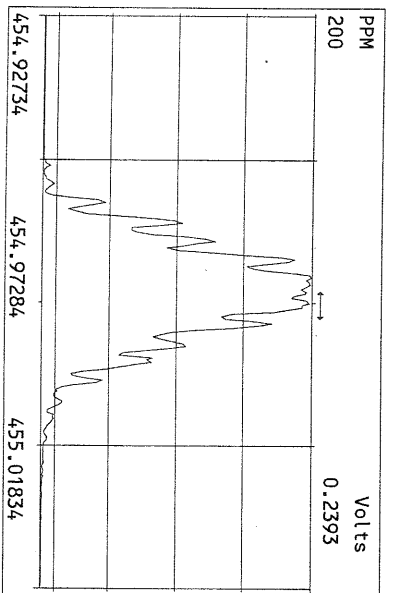
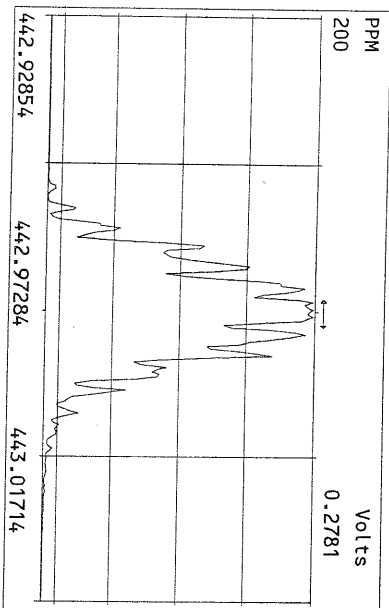
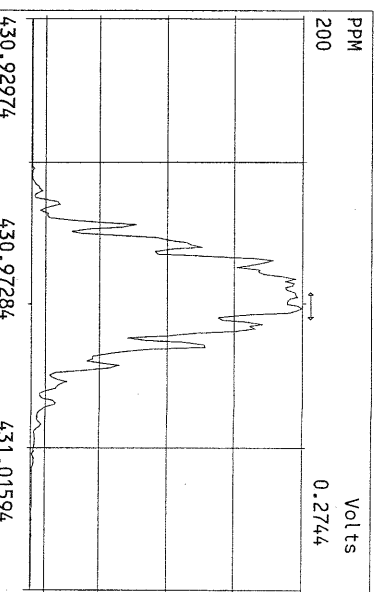
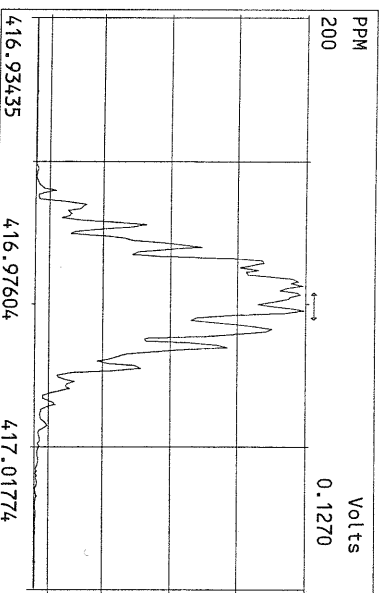
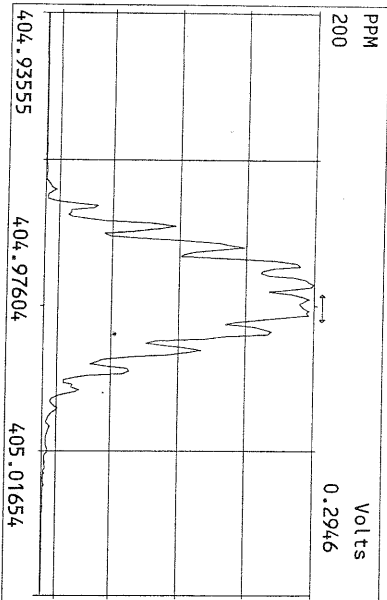
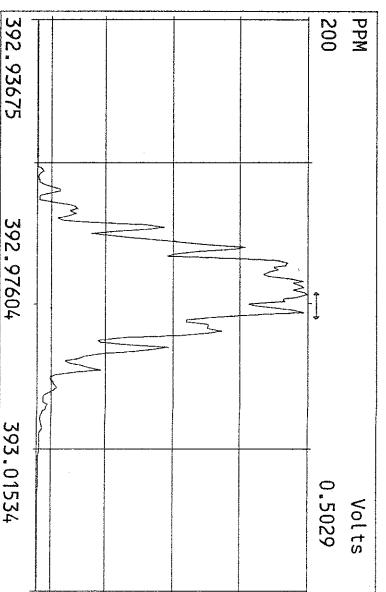
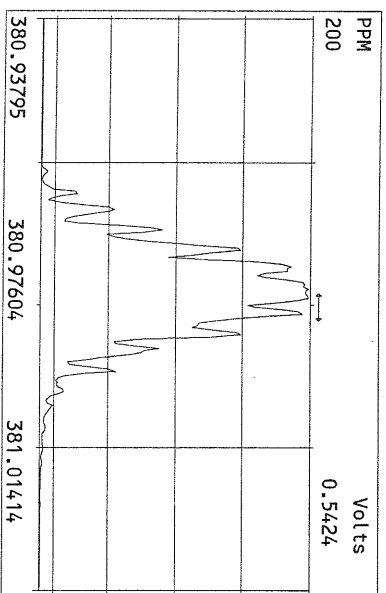
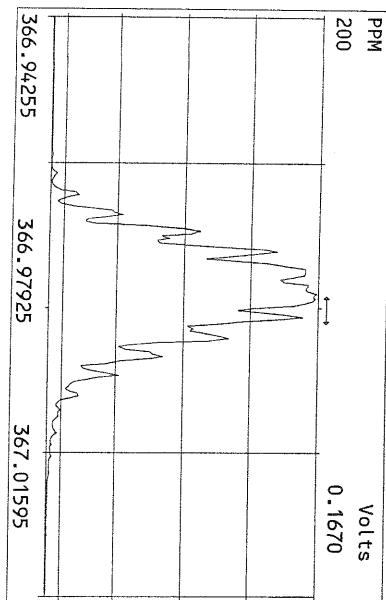
11/17/08

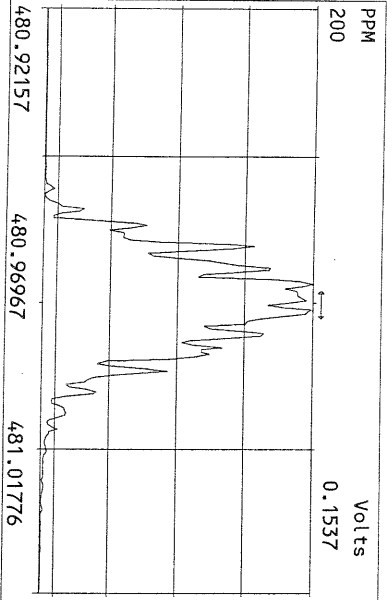
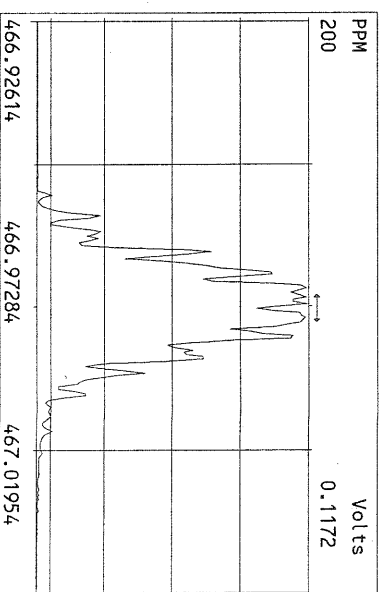
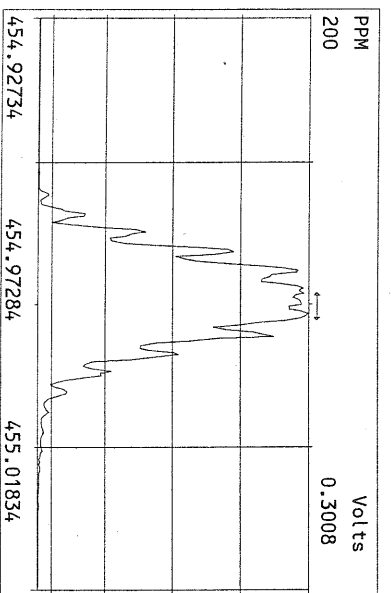
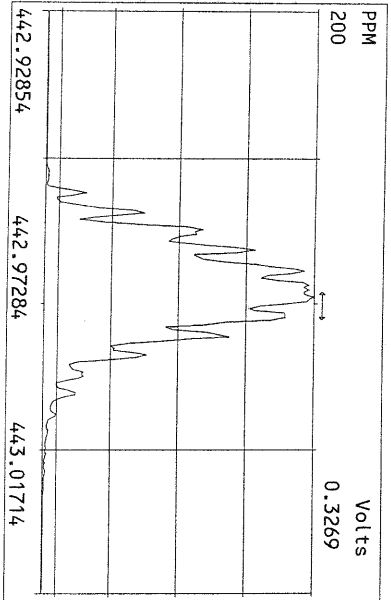
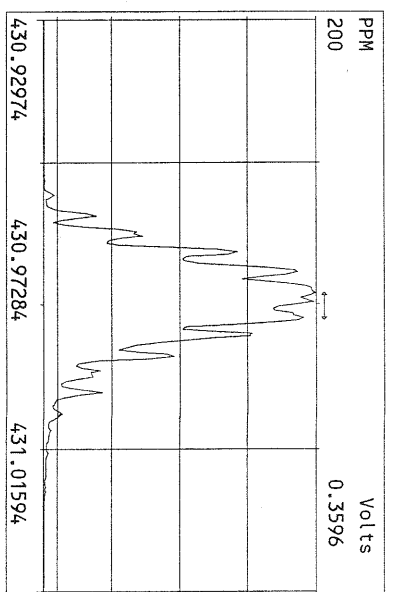
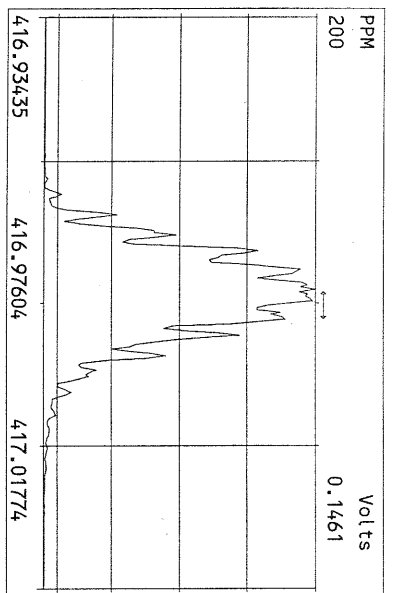
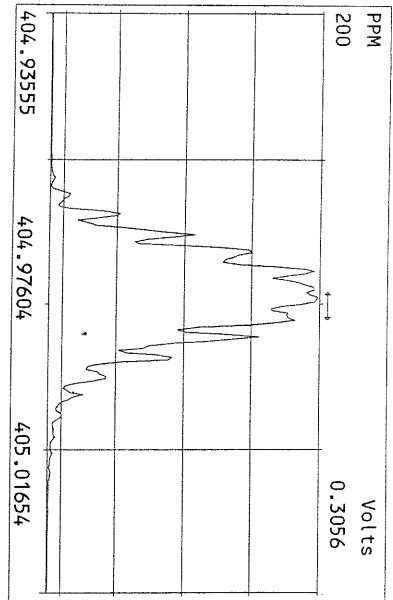
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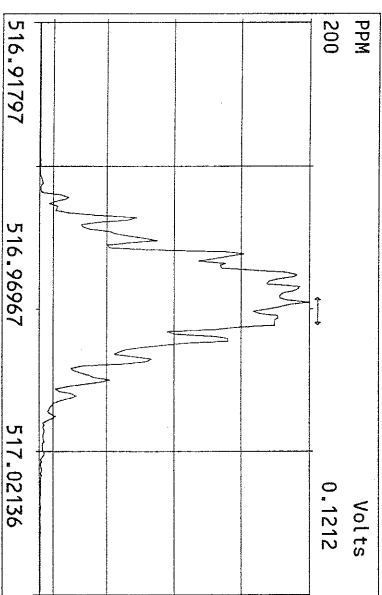
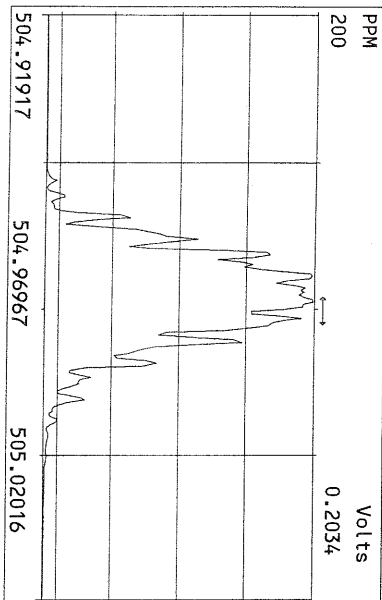
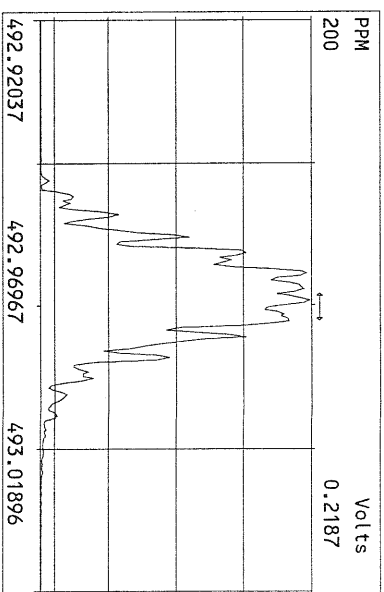
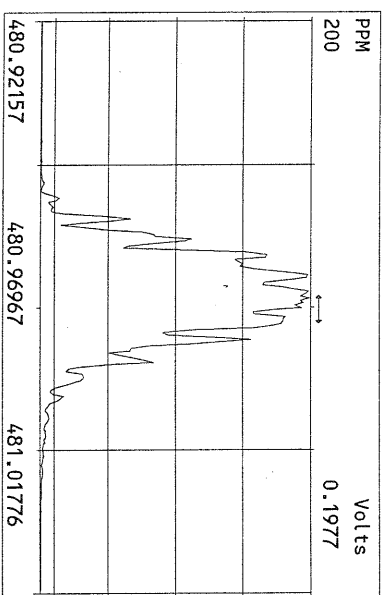
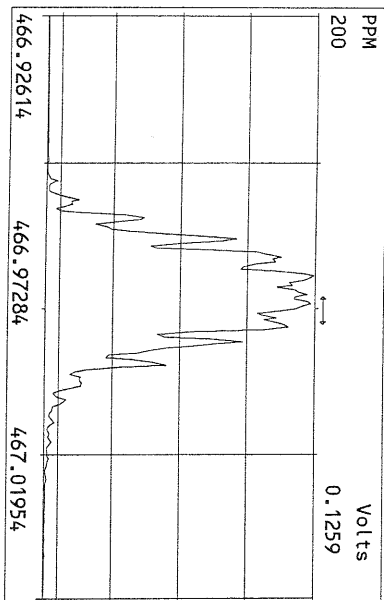
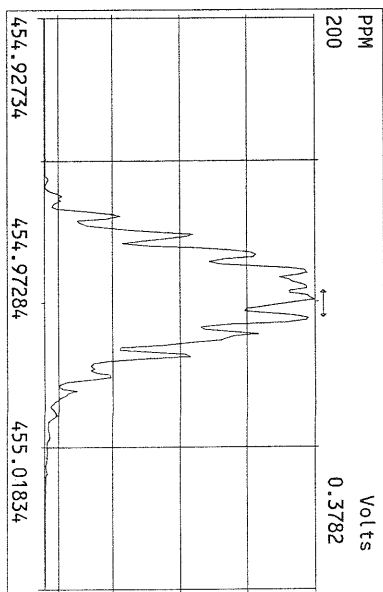
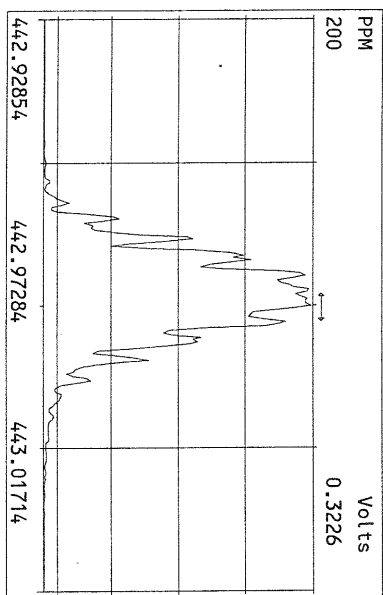
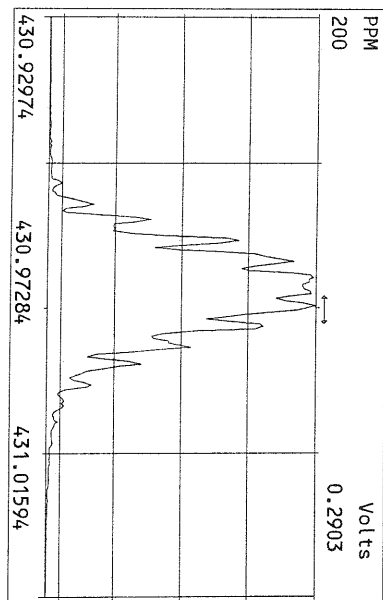
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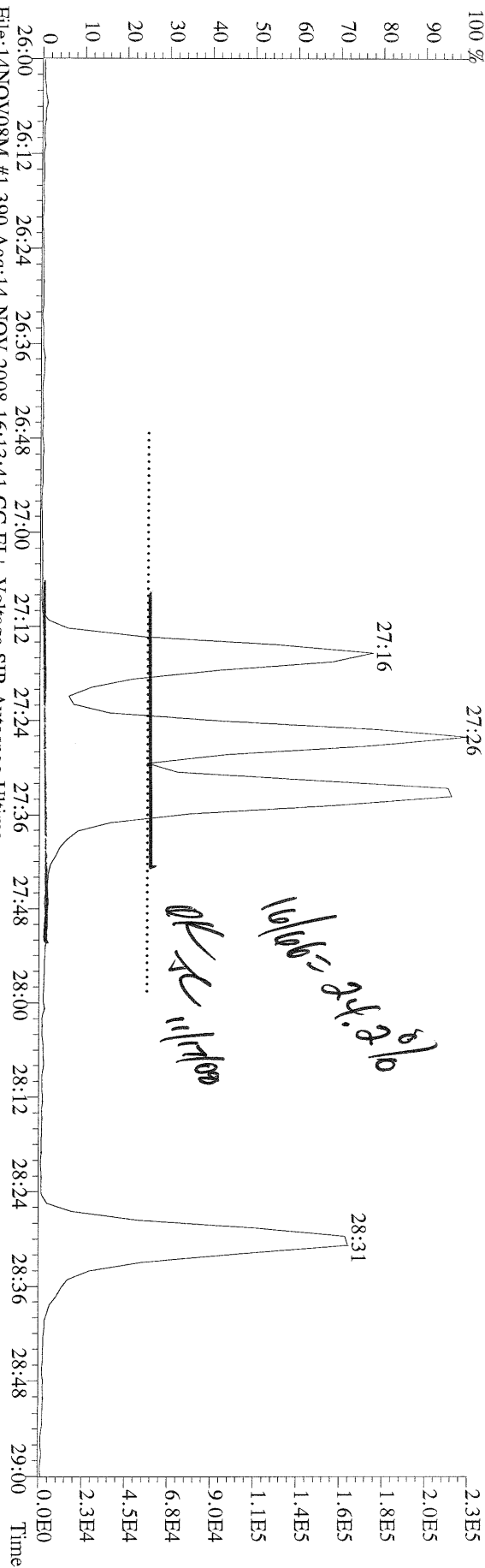




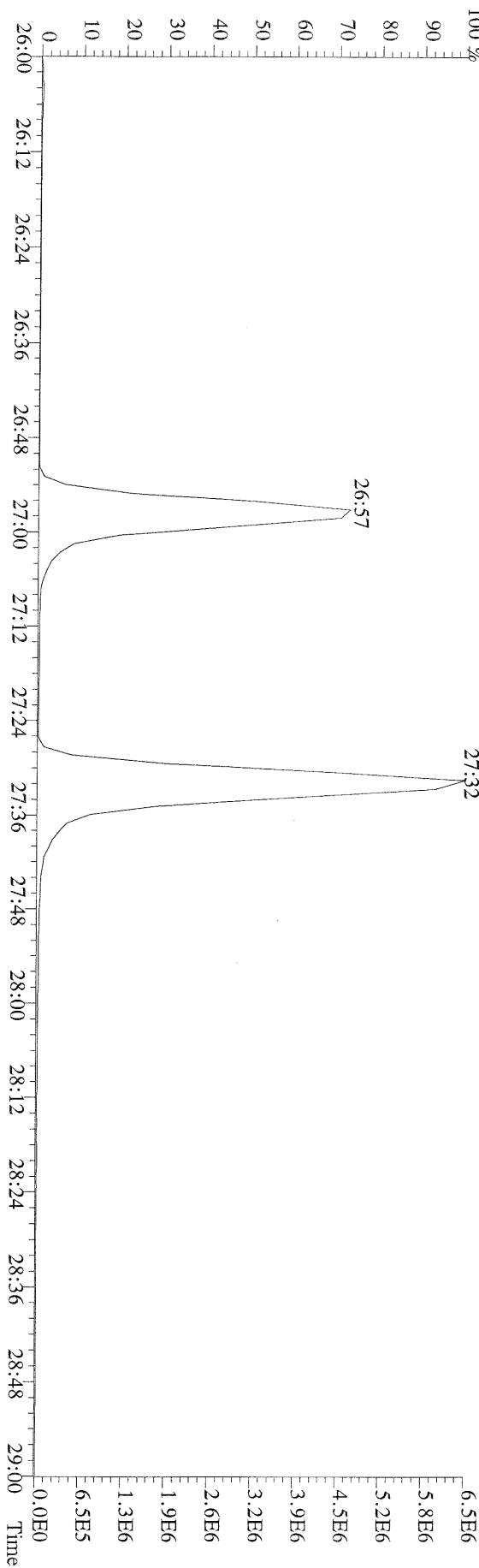




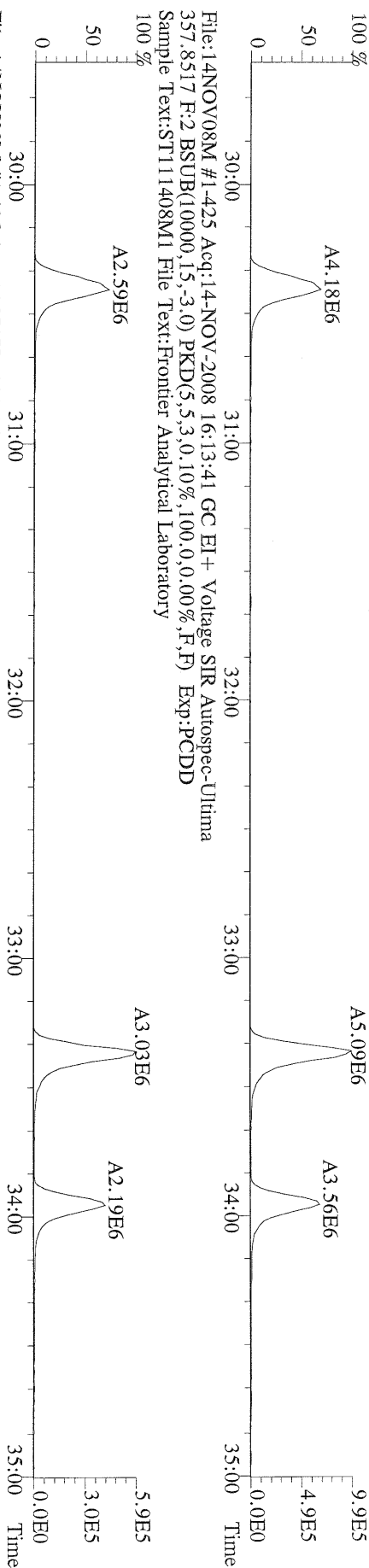
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321.8936 Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



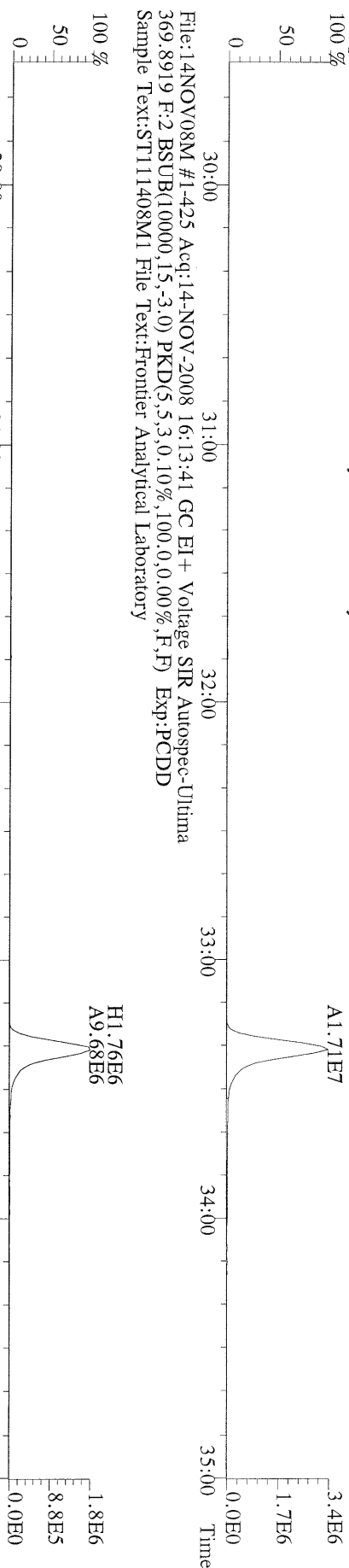
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333.9339 Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



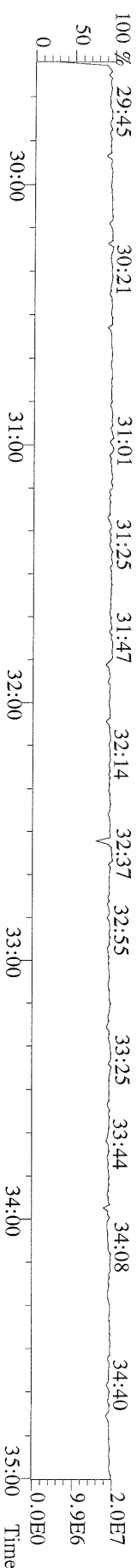
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355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



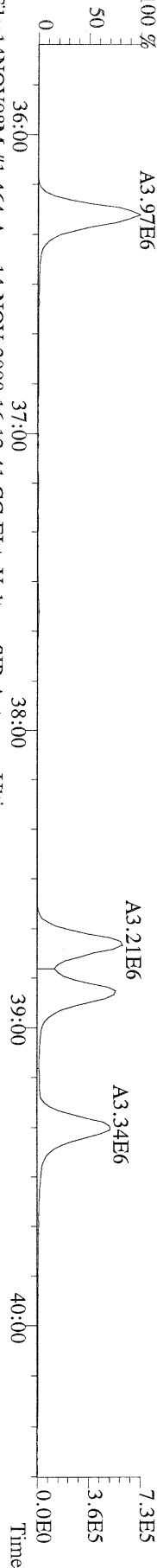
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367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



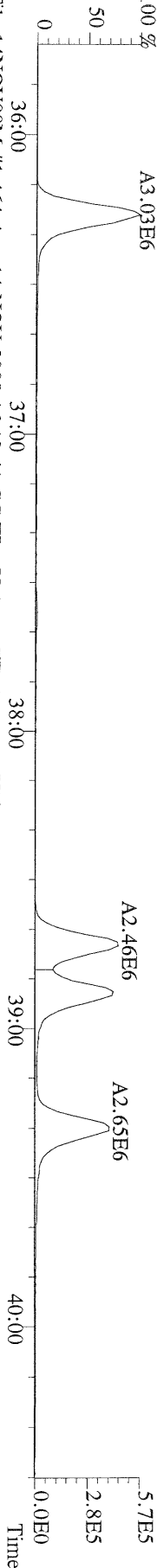
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366.9792 F:2 Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



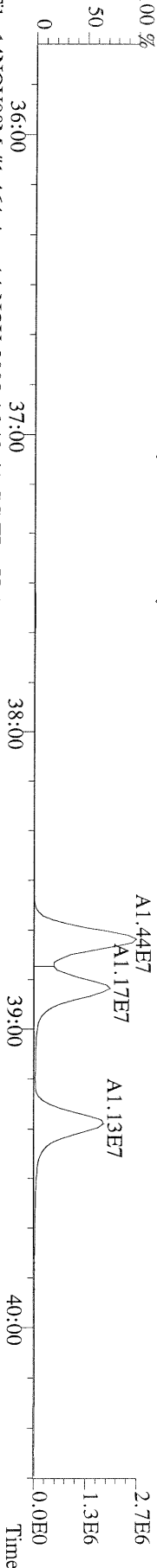
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389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



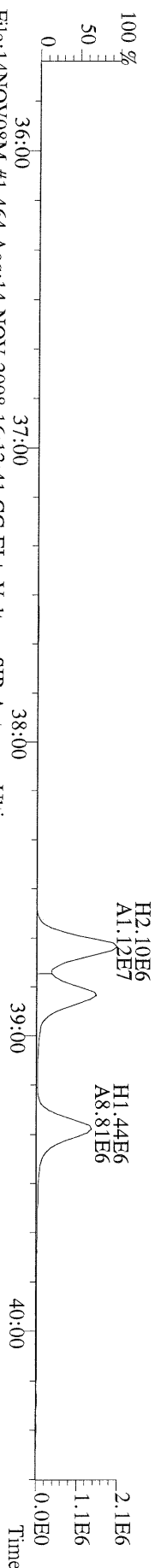
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



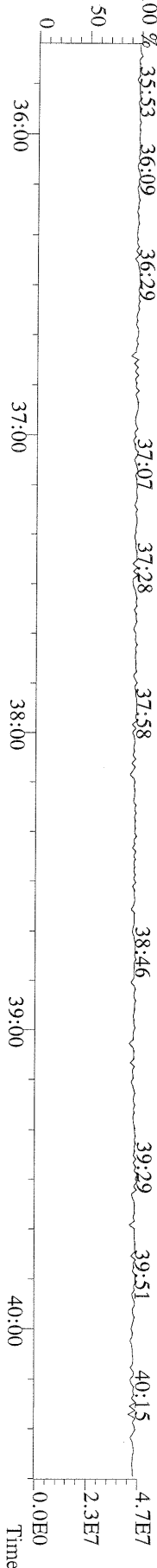
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401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



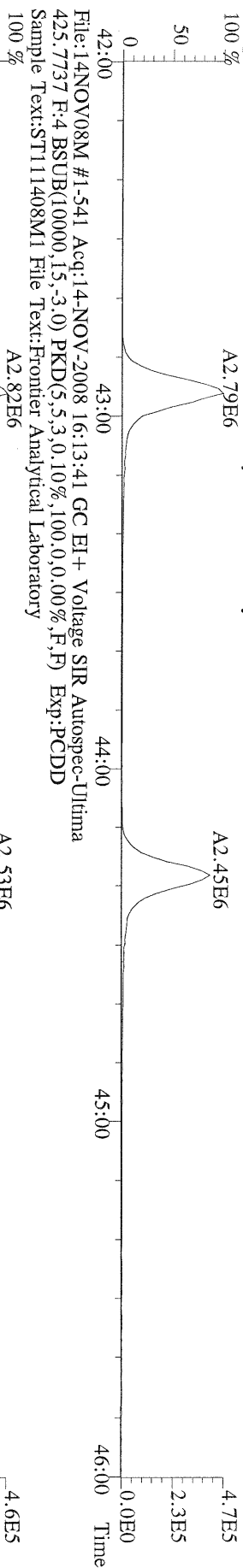
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



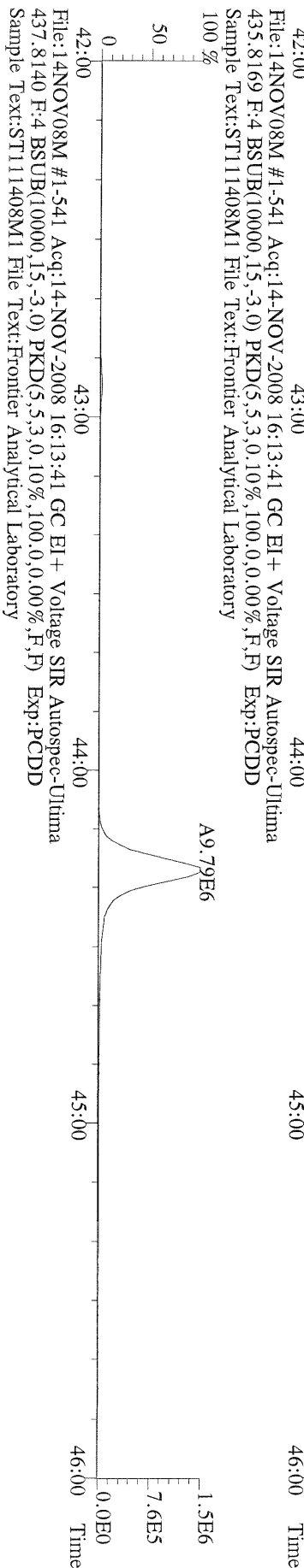
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380.9760 F:3 Exp:PCDD
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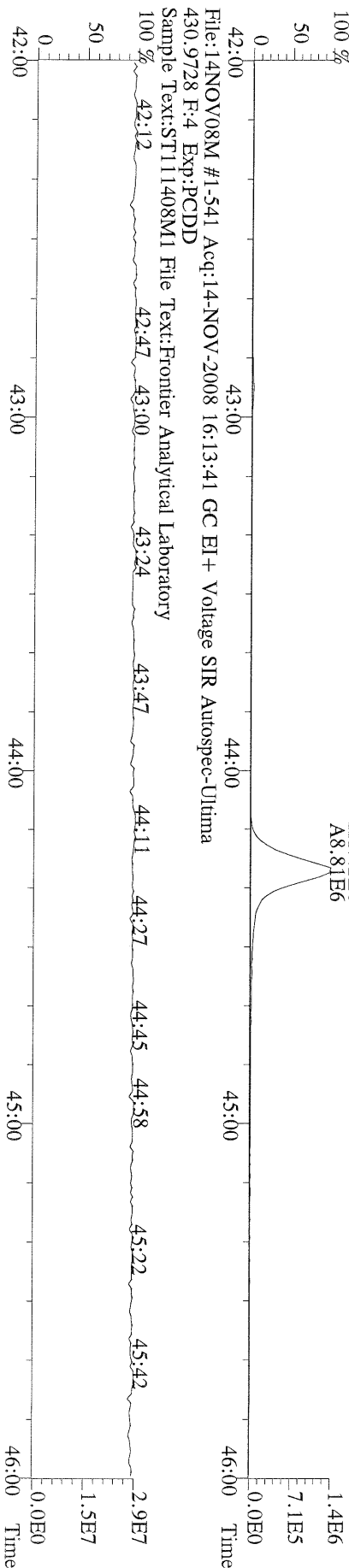
File:14NOV08M #1-541 Acq:14-NOV-2008 16:13:41 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



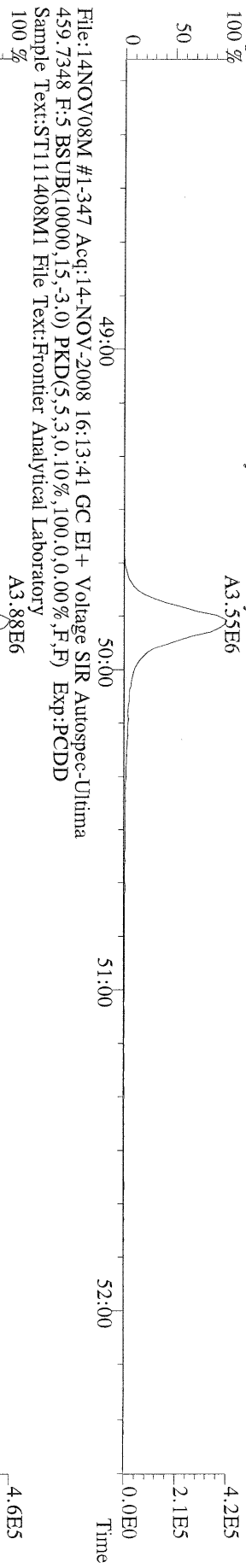
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



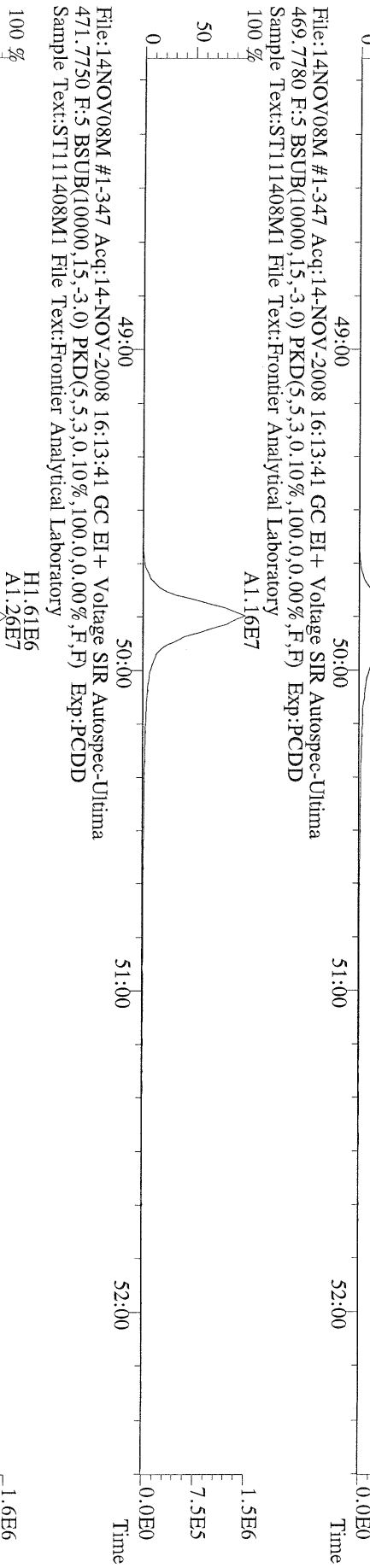
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430.9728 F:4 Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



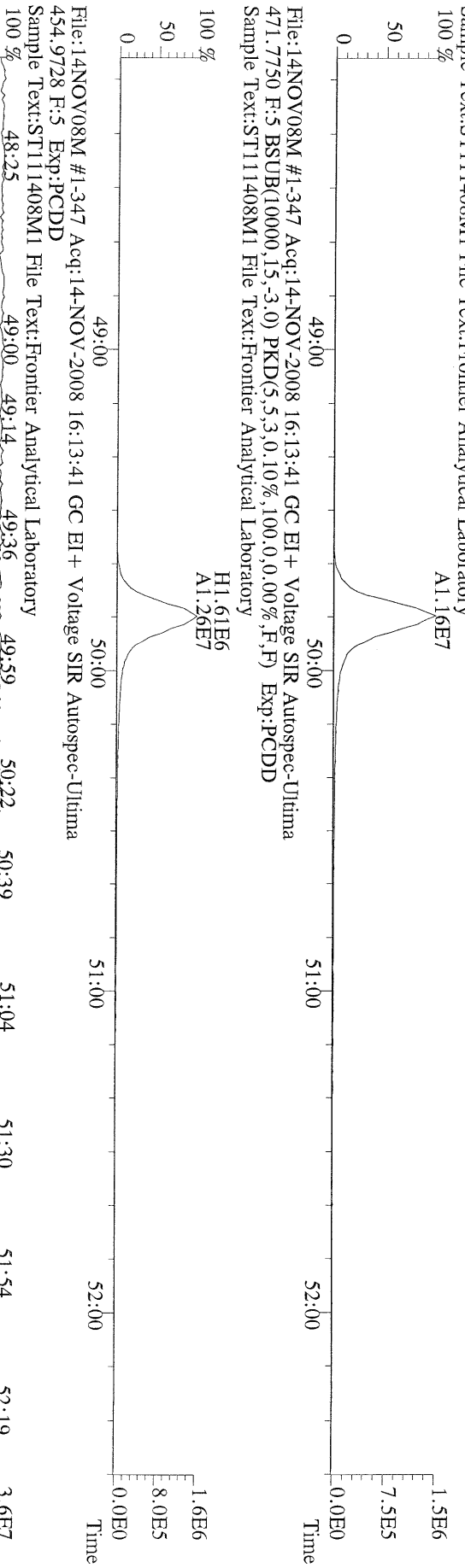
File:14NOV08M #1-347 Acq:14-NOV-2008 16:13:41 GC EI+ Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



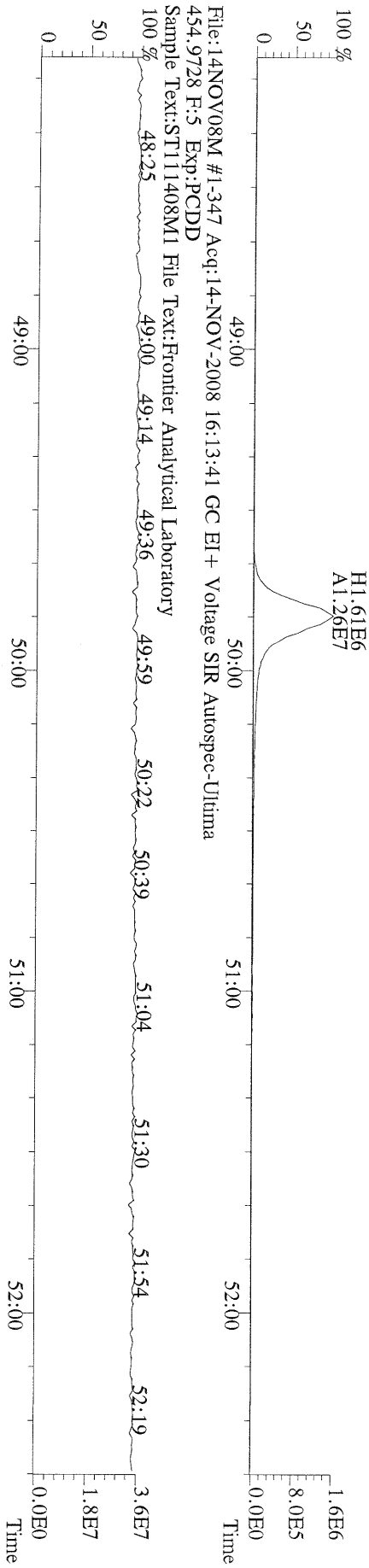
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459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



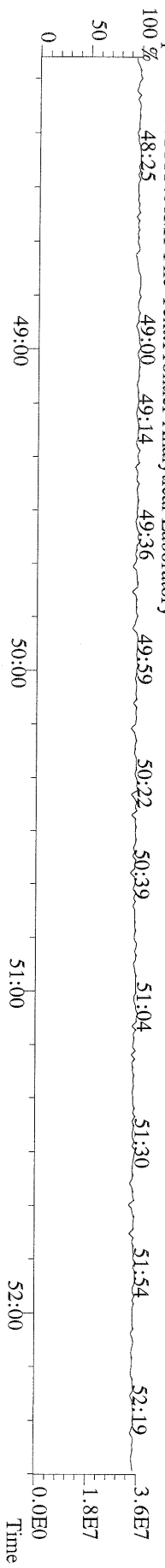
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469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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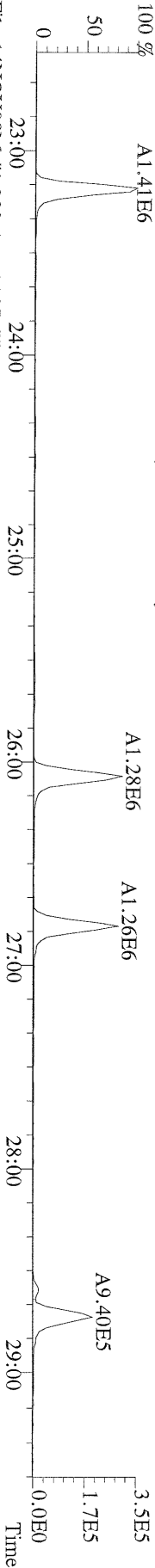
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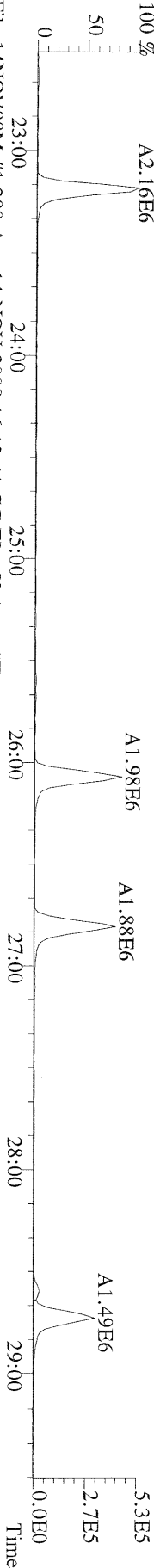
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454.9728 F:5 Exp:PCDD
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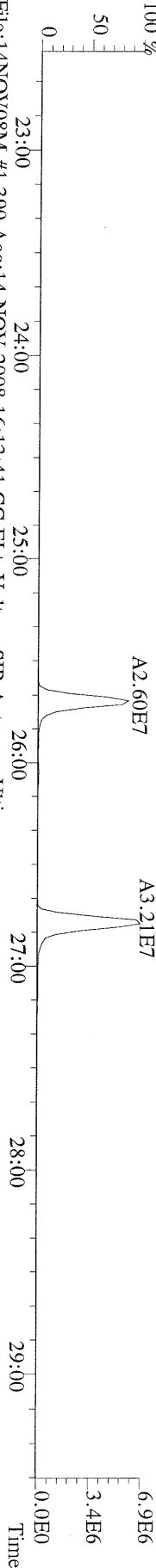
File:14NOV08M #1-390 Acq:14-NOV-2008 16:13:41 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



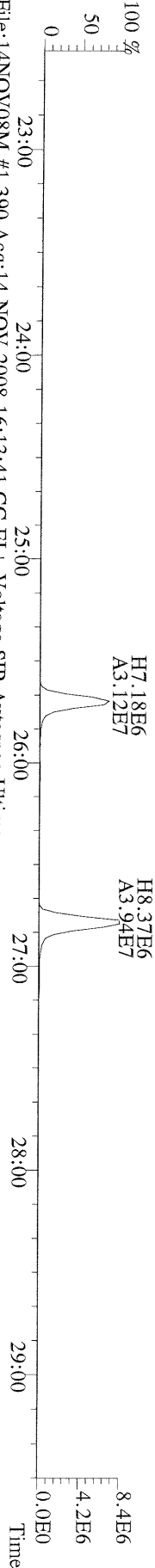
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305.8987 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



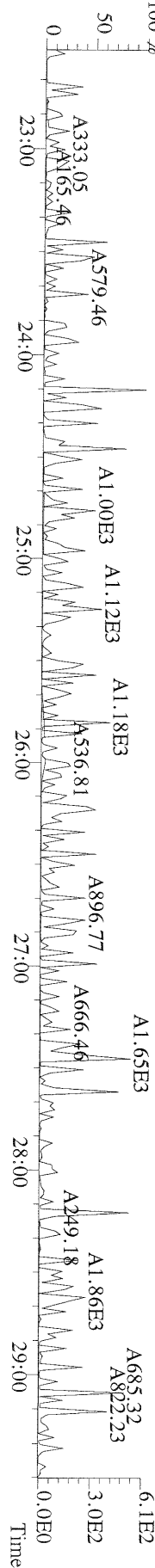
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315.9419 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



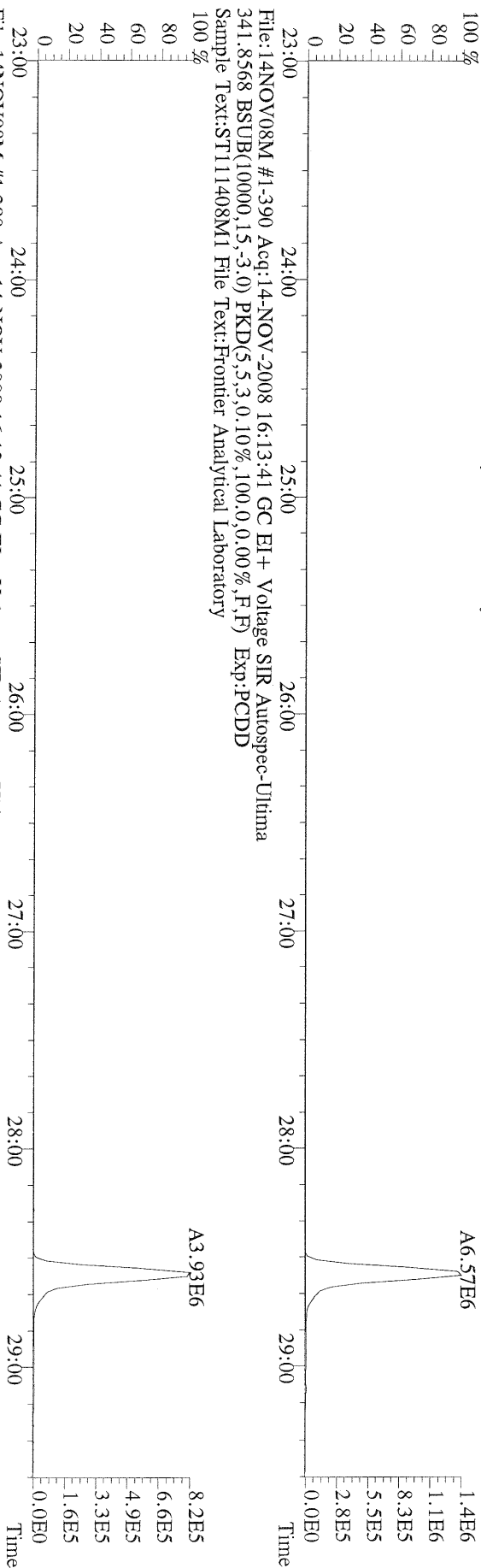
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



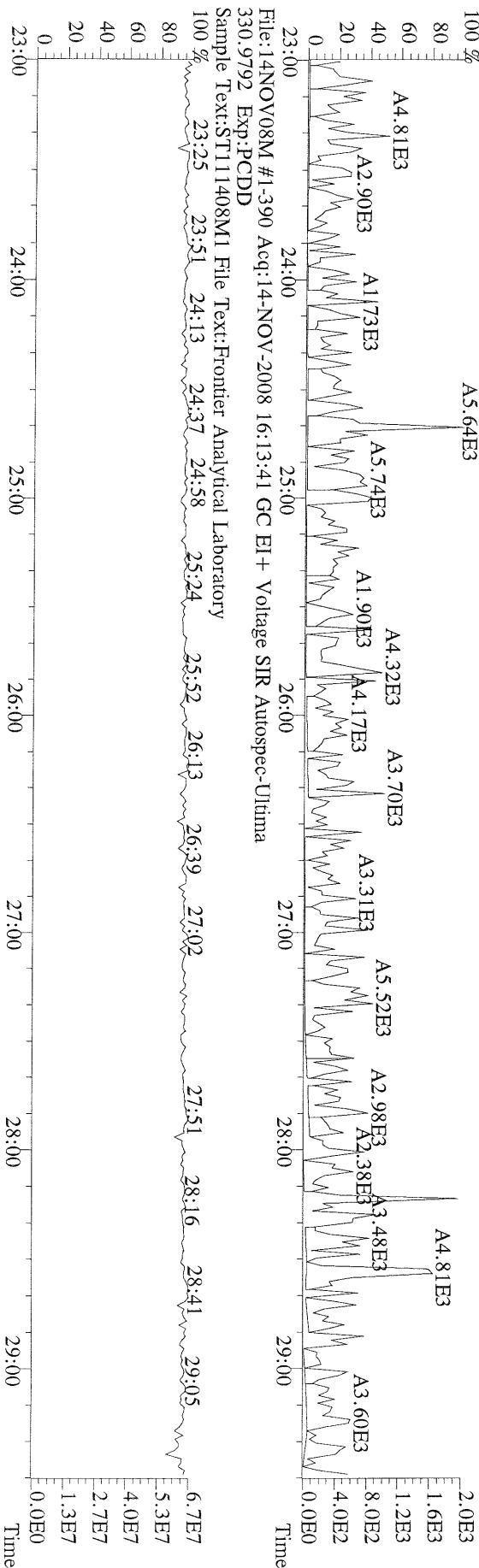
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



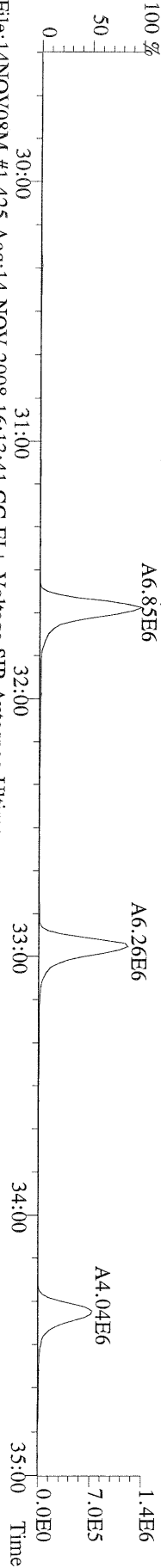
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339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



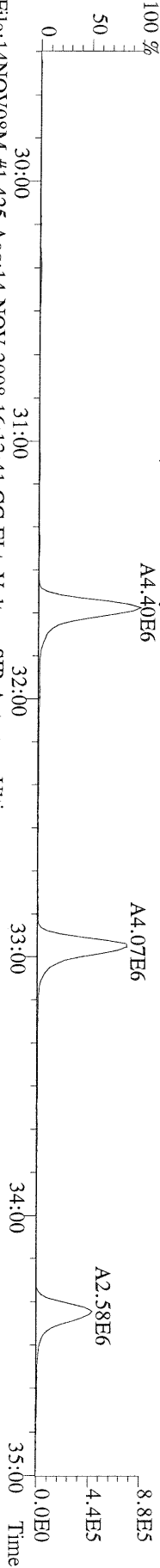
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409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



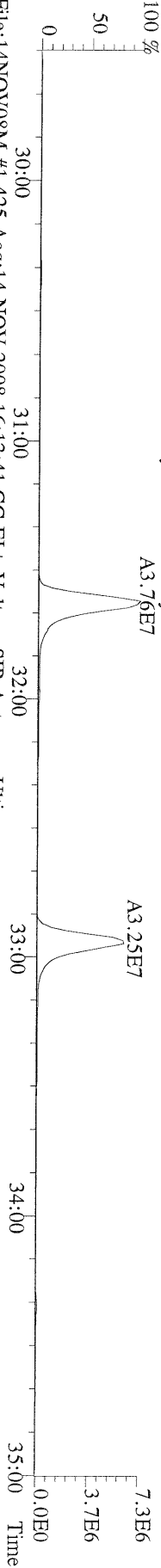
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



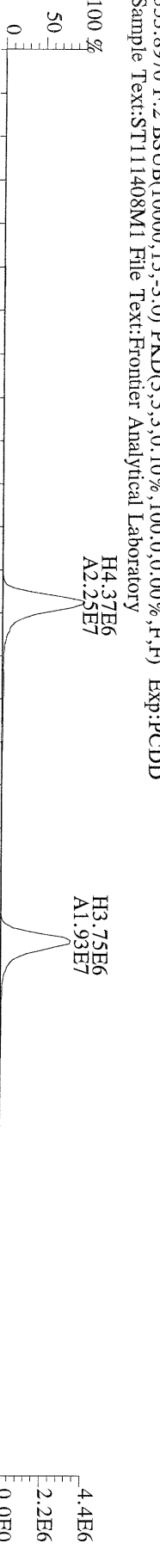
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341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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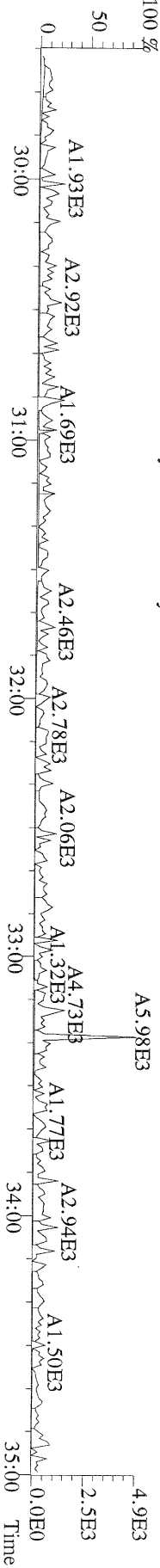
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351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



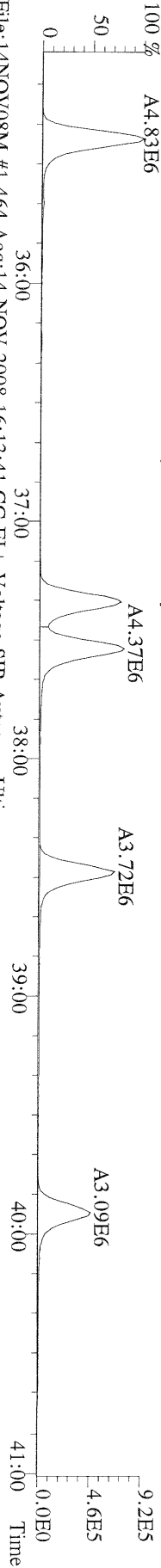
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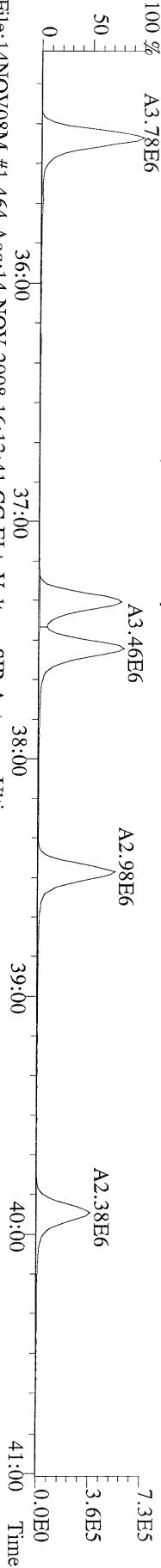
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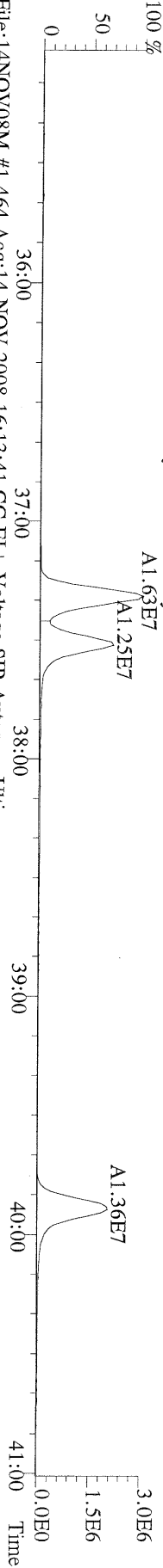
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373.8207 F:3 BSUB(10000,15,-3.0) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



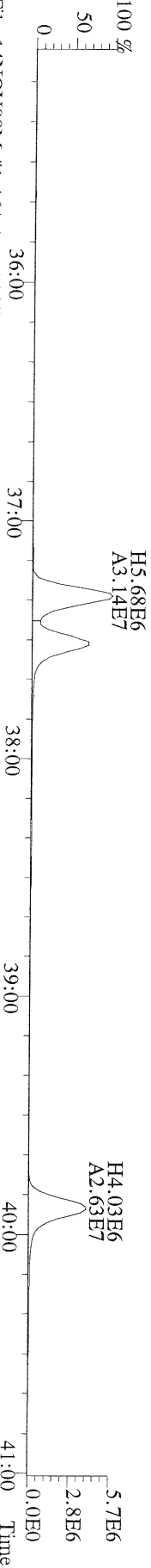
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



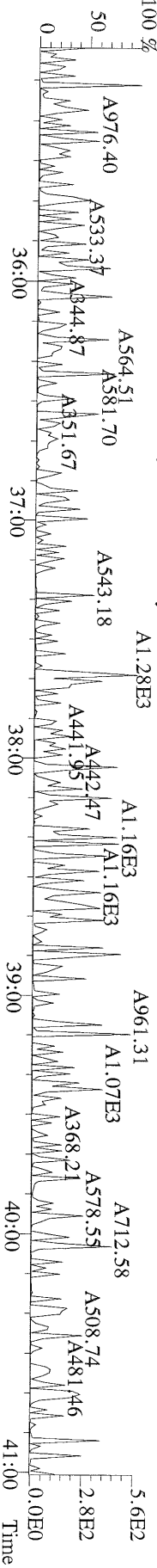
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383.8639 F:3 BSUB(10000,15,-3.0) BSUB(10000,15,-3.0) BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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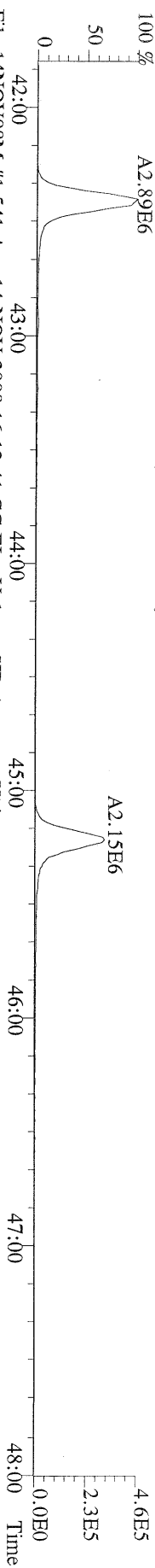
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



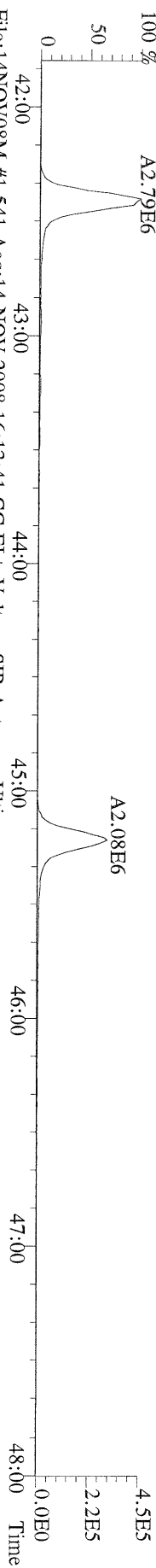
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



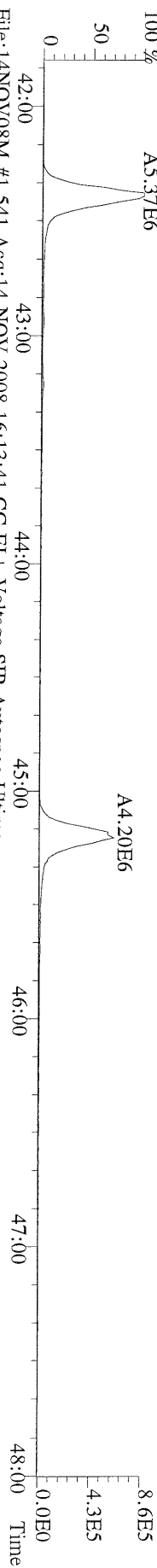
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407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



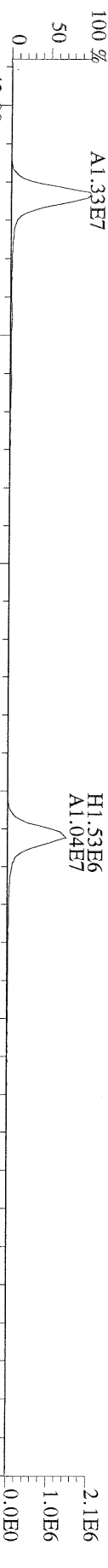
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



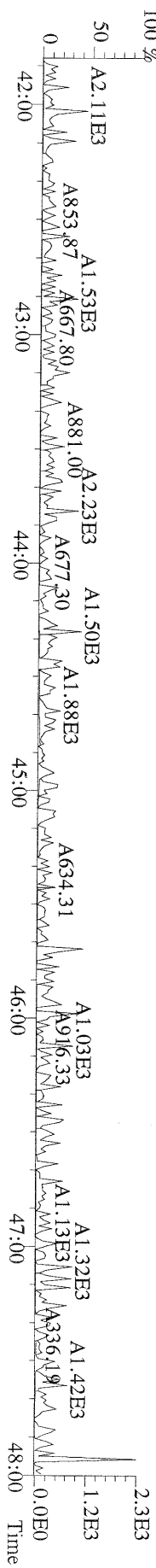
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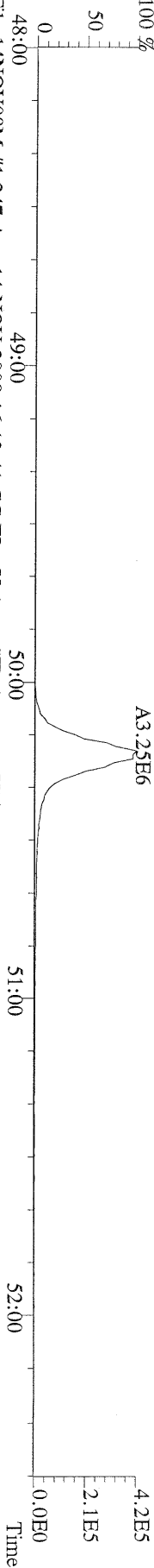
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419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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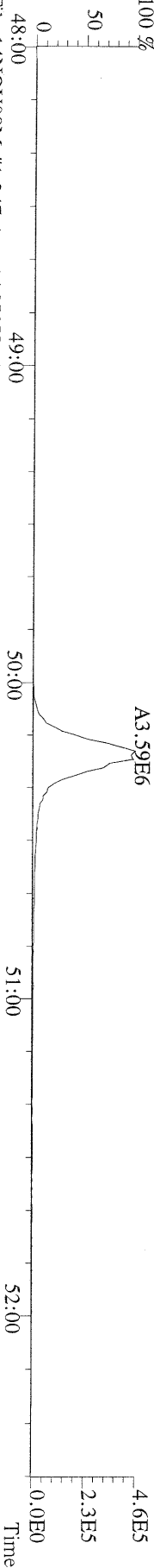
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



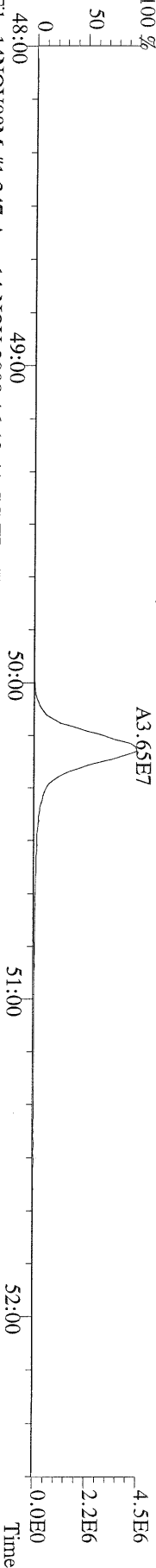
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441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



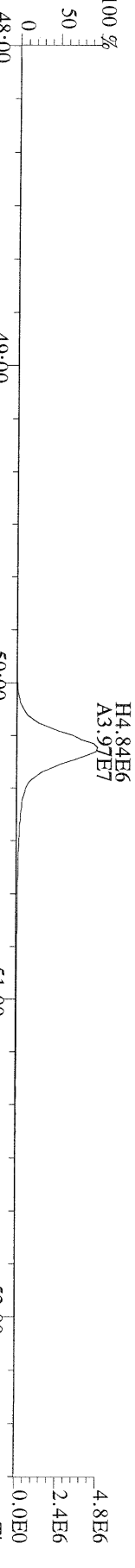
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory



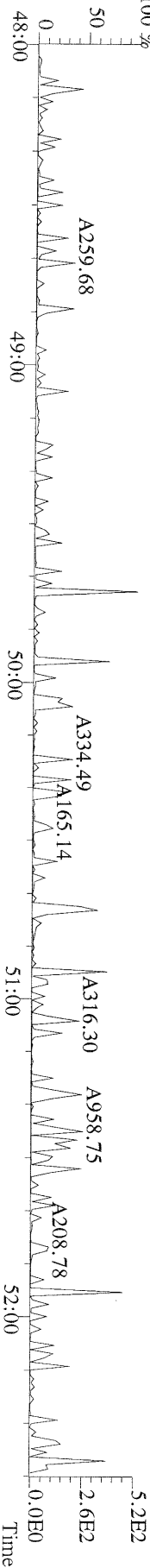
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory

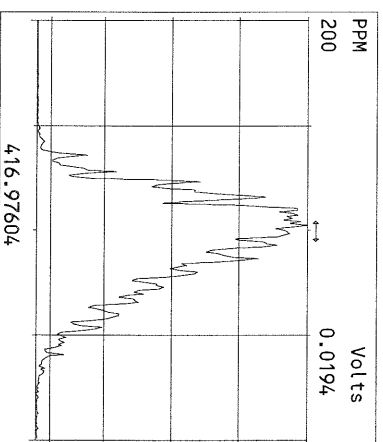
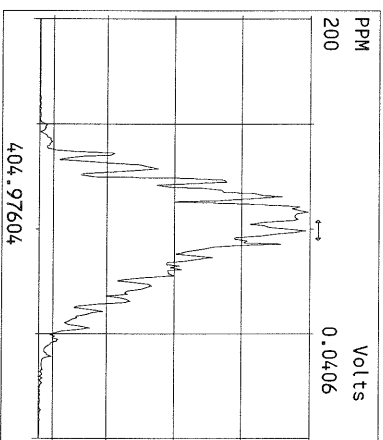
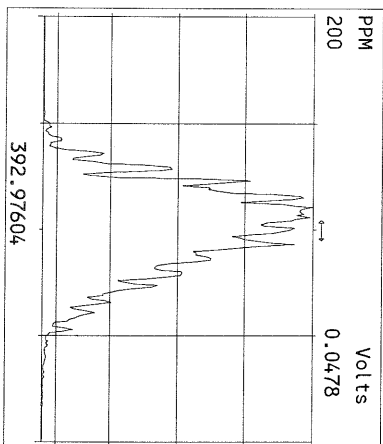
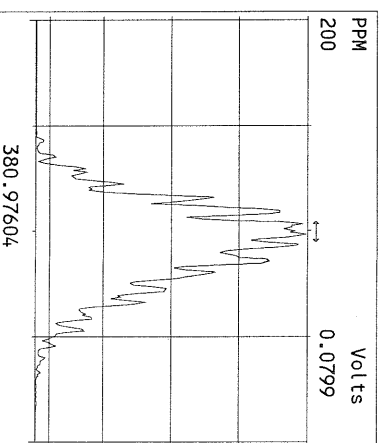
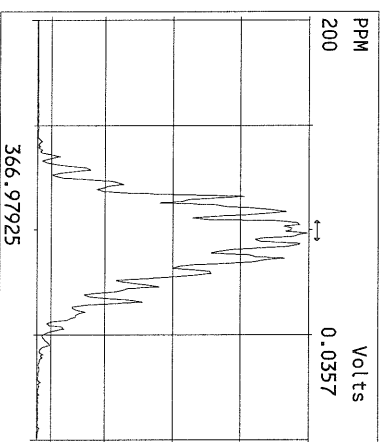
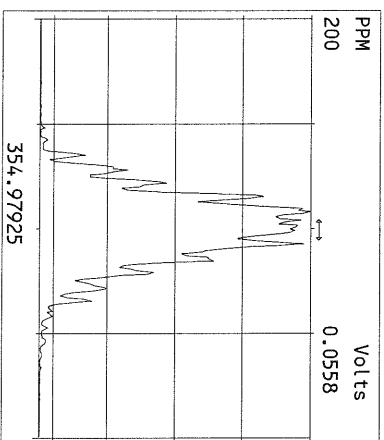
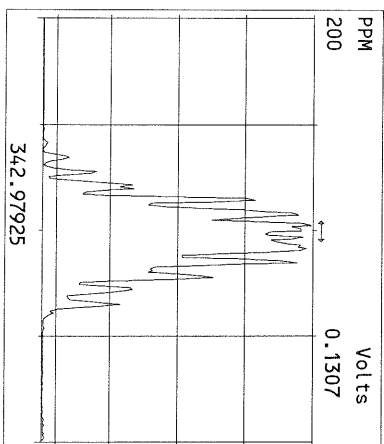
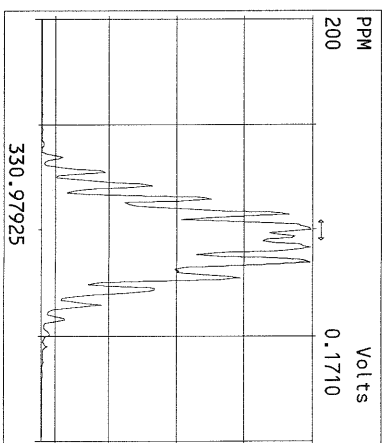
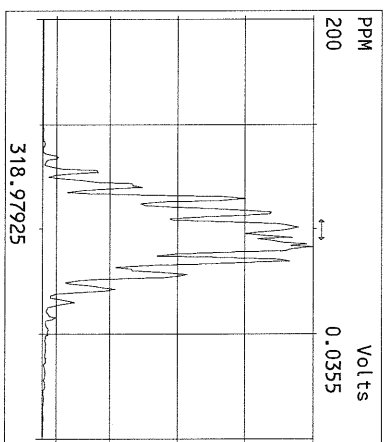
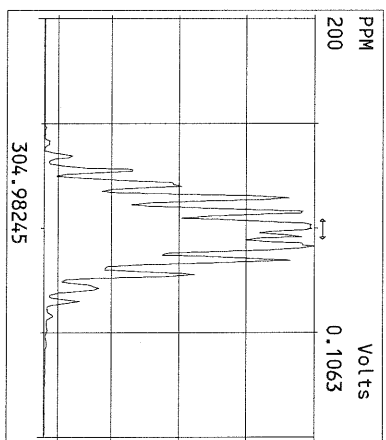
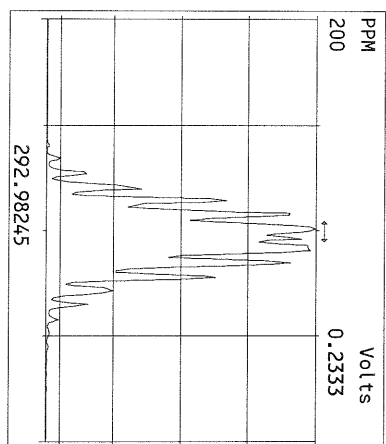


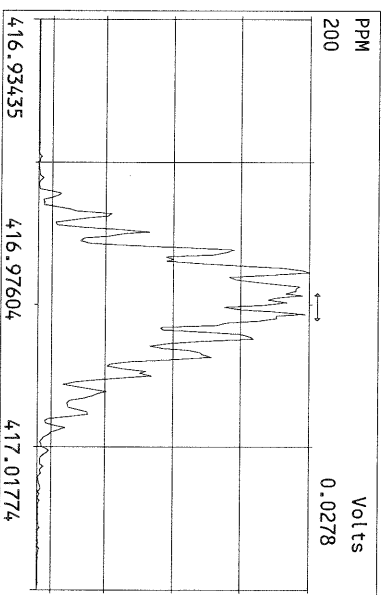
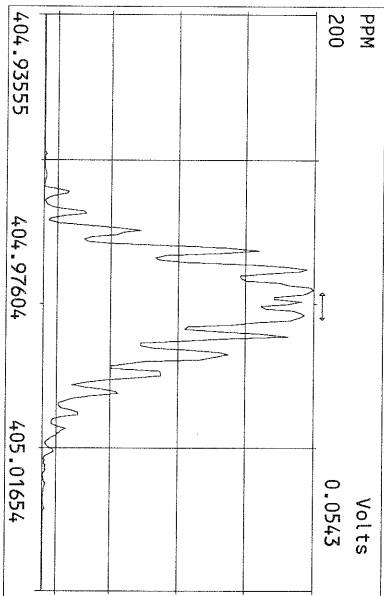
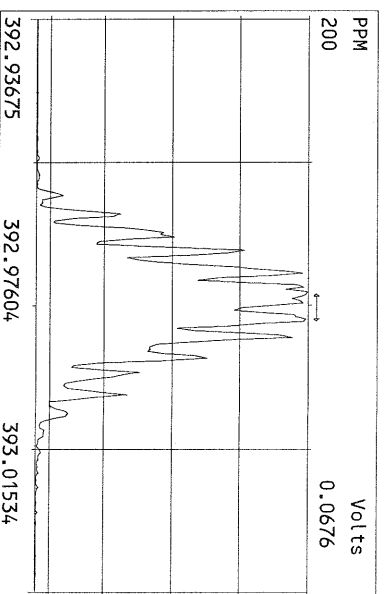
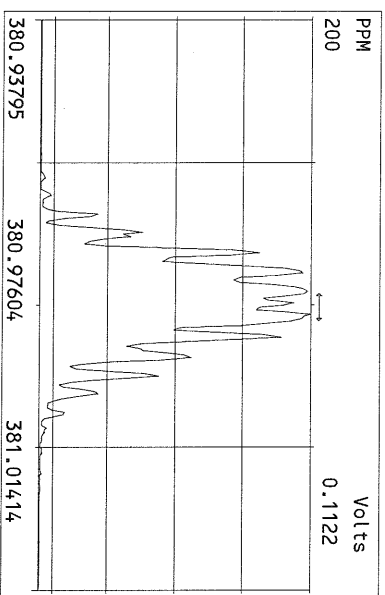
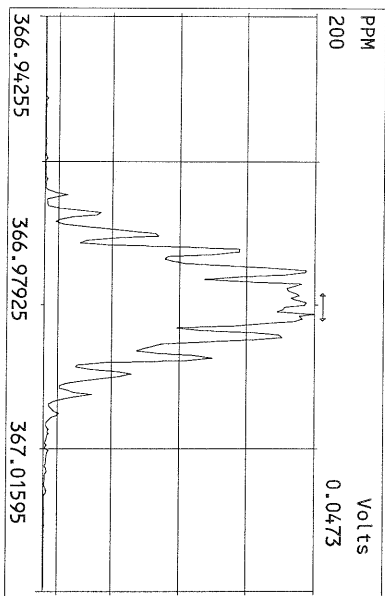
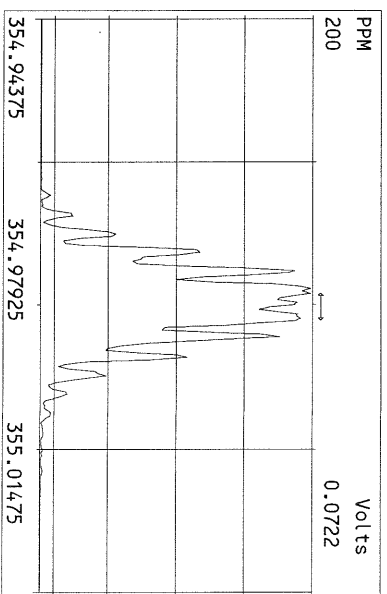
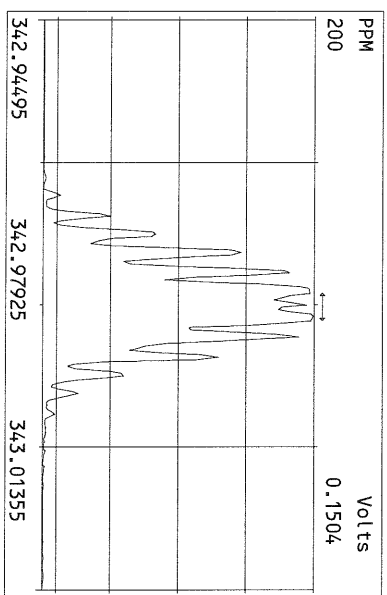
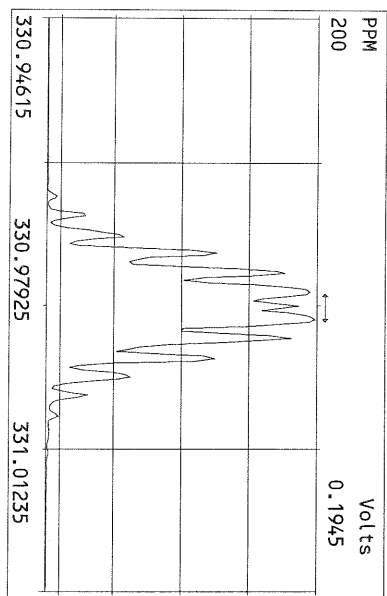
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory

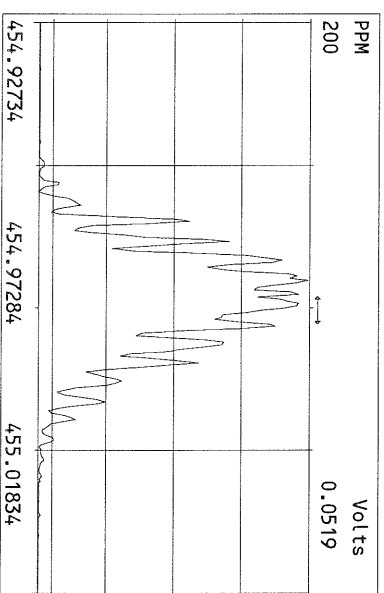
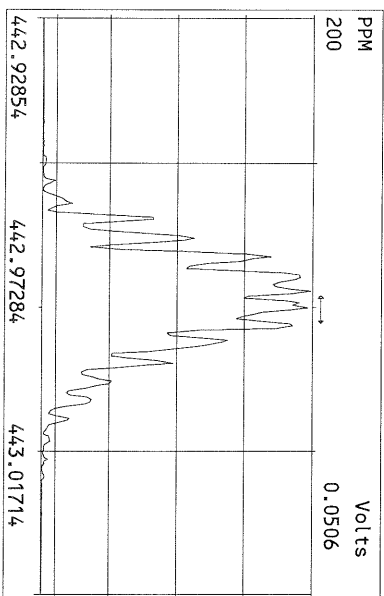
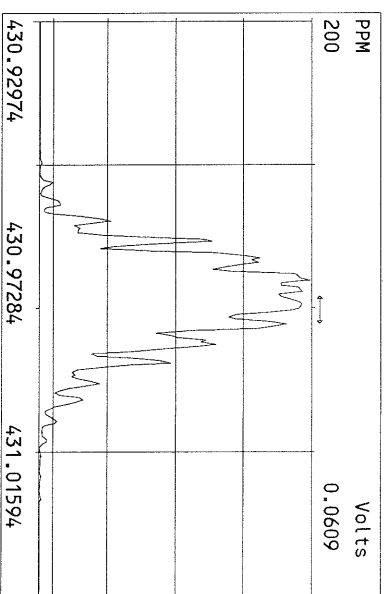
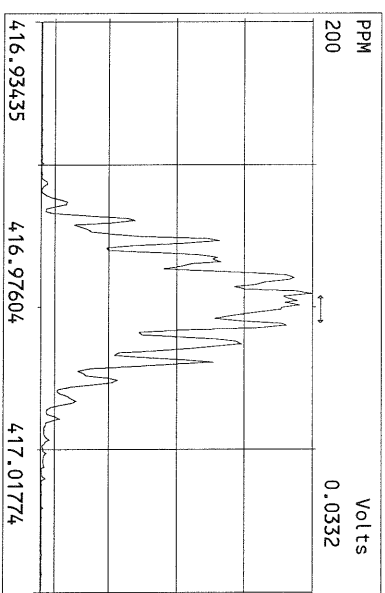
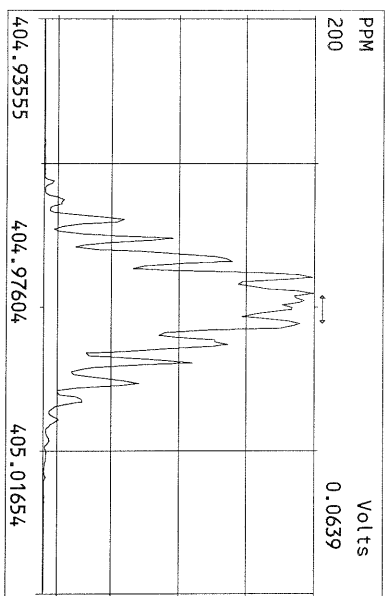
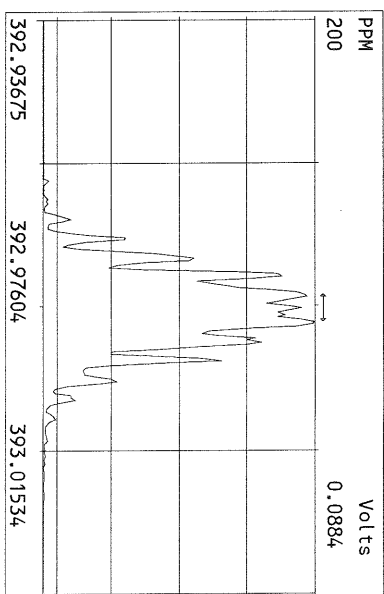
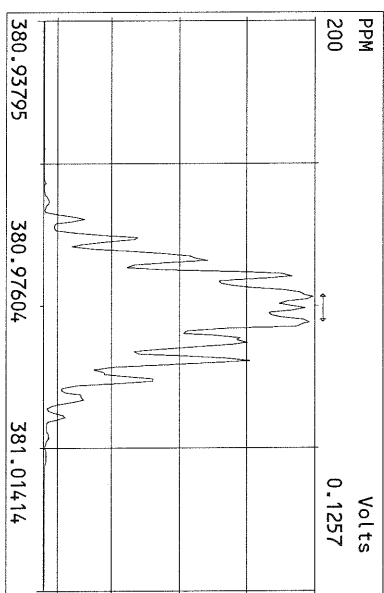
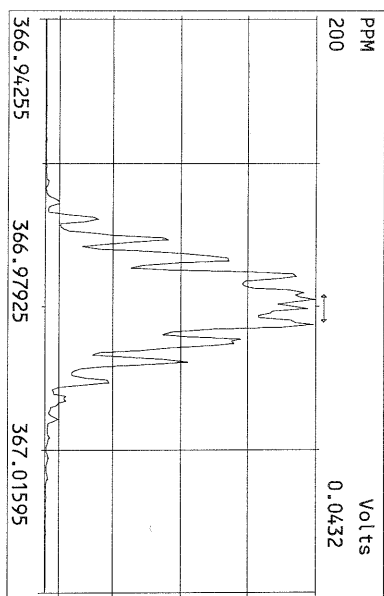


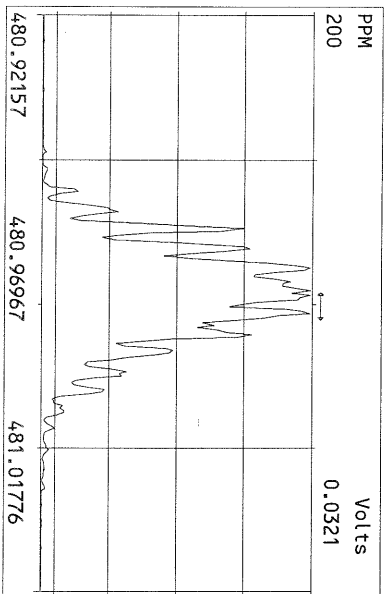
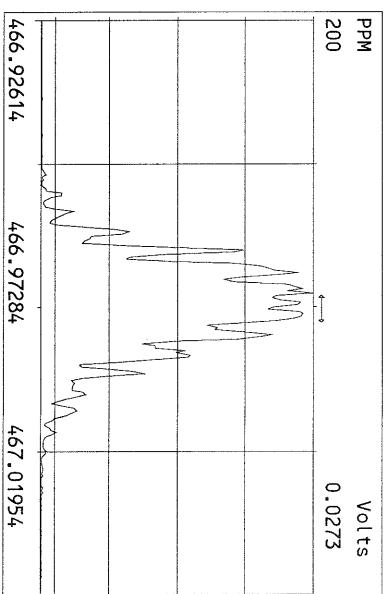
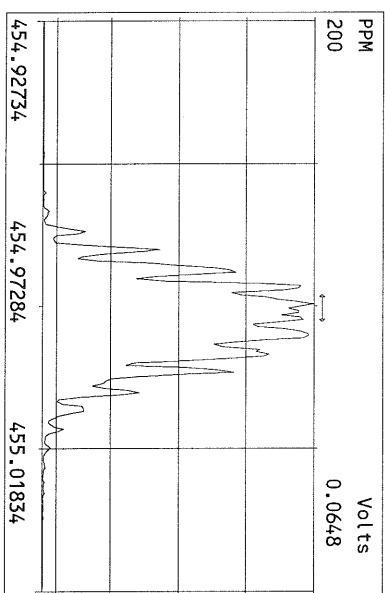
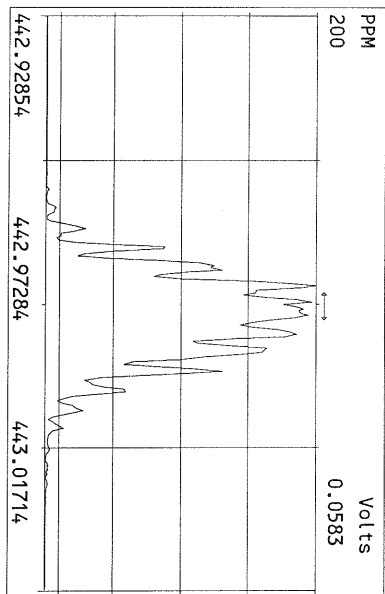
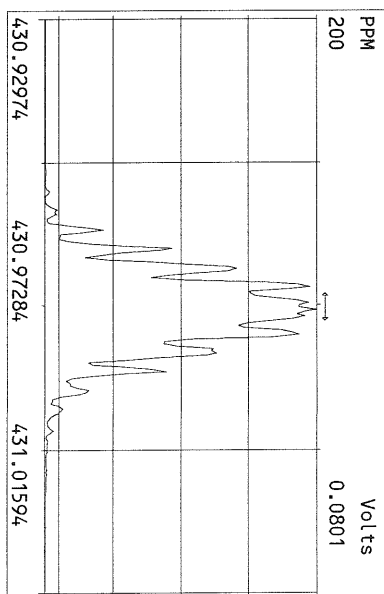
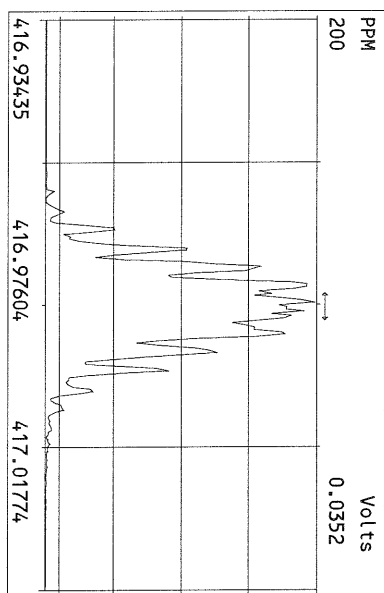
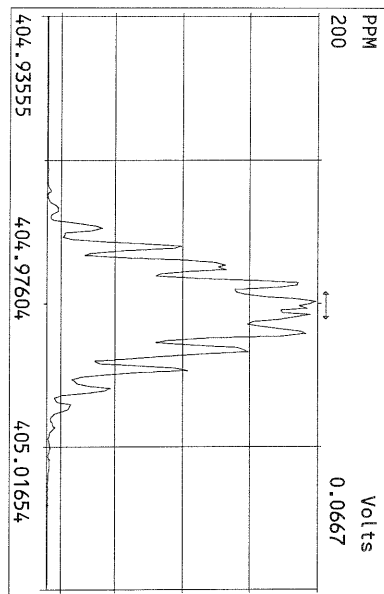
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Sample Text:ST111408M1 File Text:Frontier Analytical Laboratory

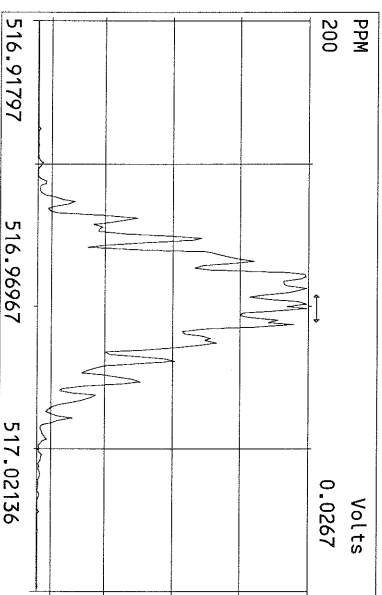
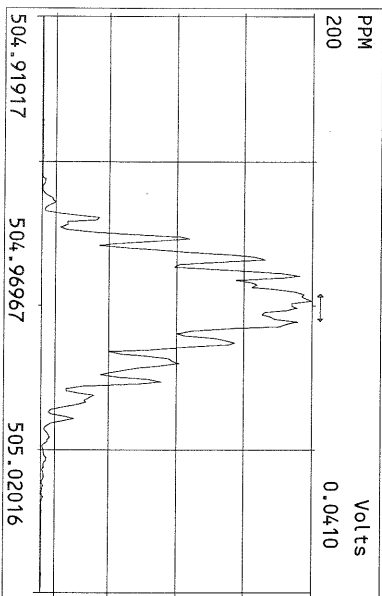
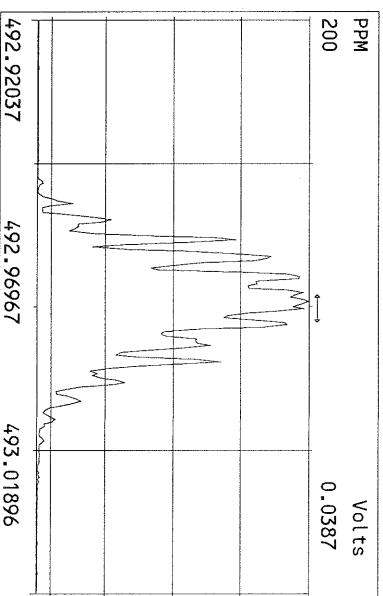
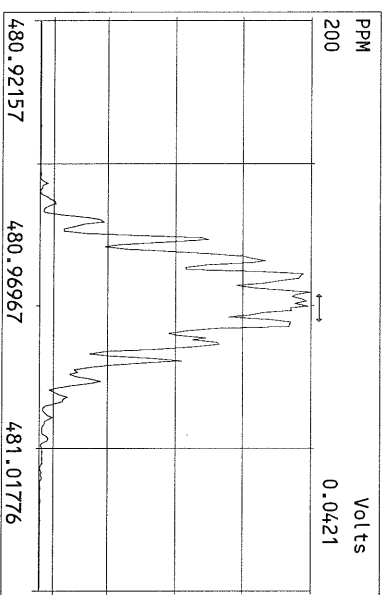
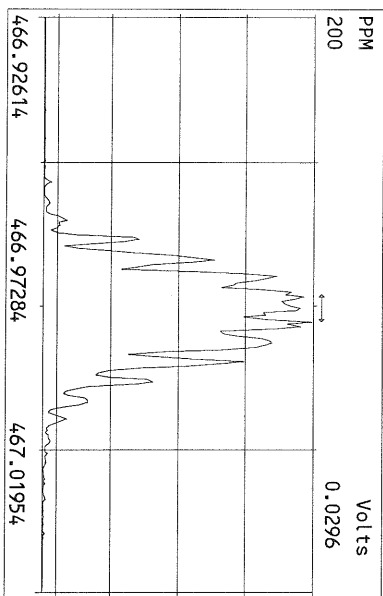
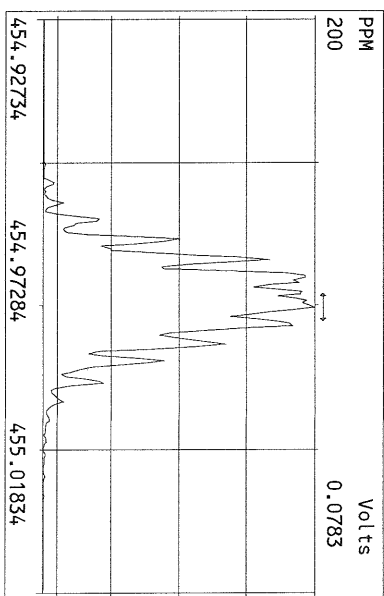
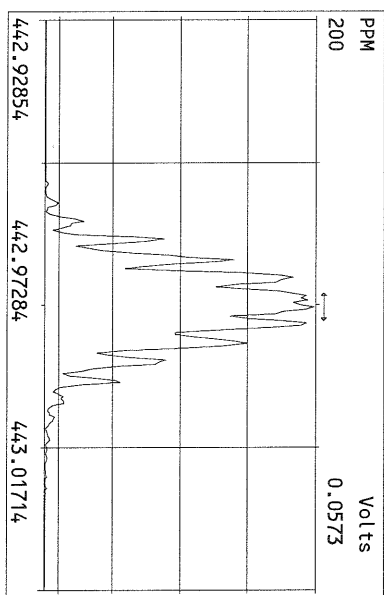
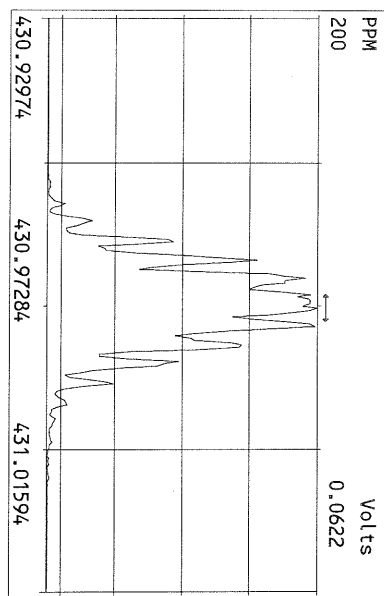












AIR FORM 4A
 PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08


Instrument ID: FAL3

GC Column ID: db5

VER Data Filename: 14NOV08M Sam:9

Analysis Date: 14-NOV-08 23:35:35

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	0.75	0.65-0.89	y	3.82	3.75 - 6.25 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.66	1.32-1.78	y	20.7	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	19.6	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	22.9	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.34	1.05-1.43	y	20.6	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	24.0	18.7 - 31.2 ✓
OCDD	M+2/M+4	0.92	0.76-1.02	y	50.8	37.5 - 62.5 ✓
2,3,7,8-TCDF	M/M+2	0.66	0.65-0.89	y	4.31	3.75 - 6.25 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.32-1.78	y	23.3	18.7 - 31.2 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	22.2	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	18.8	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	20.6	18.7 - 31.2 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	19.3	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.22	1.05-1.43	y	18.8	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88-1.20	y	21.8	18.7 - 31.2 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88-1.20	y	20.9	18.7 - 31.2 ✓
OCDF	M+2/M+4	0.92	0.76-1.02	y	38.8	35.0 - 65.0 ✓

Analyst: 

Date: 11/17/08

USEPA - ITD

AIR FORM 4B
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 14NOV08M Sam:9

Analysis Date: 14-NOV-08 23:35:35

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	93.1	75.0 - 125 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.75	1.32-1.78	y	80.4	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	110	75.0 - 125 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.12	0.88-1.20	y	85.7	70.0 - 130 ✓
13C-OCDD	M+2/M+4	0.94	0.76-1.02	y	165	140 - 260 ✓
13C-2,3,7,8-TCDF	M/M+2	0.82	0.65-0.89	y	88.0	70.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	77.1	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	120	70.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.41	0.37-0.51	y	94.5	70.0 - 130 ✓
13C-OCDF	M+2/M+4	0.95	0.76-1.02	y	188	140 - 260 ✓
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	102	75.0 - 125 ✓
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					97.0	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	87.9	75.0 - 125 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.67	1.32-1.78	y	99.6	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	93.6	75.0 - 125 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.41	0.37-0.51	y	84.5	75.0 - 125 ✓

Analyst: 

Date: 11/17/08

Air Form 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 8/29/08
RT Window Data Filename: 14NOV08M Sam:9 Analysis Date: 14-NOV-08 Time: 23:35:35
DB-5 IS Data Filename: 14NOV08M Sam:9 Analysis Date: 14-NOV-08 Time: 23:35:35
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:32 ✓	1,3,6,8-TCDF (F)	23:11 ✓
1,2,8,9-TCDD (L)	28:30 ✓	1,2,8,9-TCDF (L)	28:43 ✓
1,2,4,7,9-PeCDD (F)	30:22 ✓	1,3,4,6,8-PeCDF (F)	28:34 ✓
1,2,3,8,9-PeCDD (L)	33:56 ✓	1,2,3,8,9-PeCDF (L)	34:22 ✓
1,2,4,6,7,9-HxCDD (F)	36:15 ✓	1,2,3,4,6,8-HxCDF (F)	35:22 ✓
1,2,3,7,8,9-HxCDD (L)	39:20 ✓	1,2,3,7,8,9-HxCDF (L)	39:54 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:55 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:24 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:17 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:12 ✓

(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%.

Analyst: _____

Date: _____

11/17/08

NATO 1989 Tox:	41.6
WHO 1998 Tox:	51.9

Analyst:

Date:

Frontier Analytical Laboratory - Acquisition Log

Run Name:14NOV08M

Instrument: FAL3

GC: DB5

Experiment:PCDD

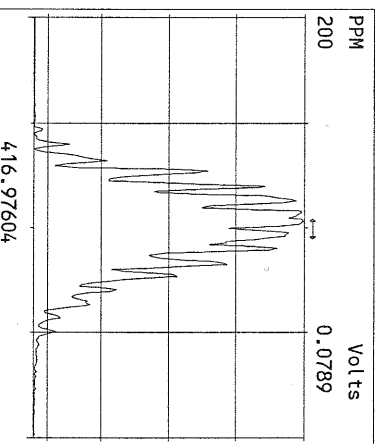
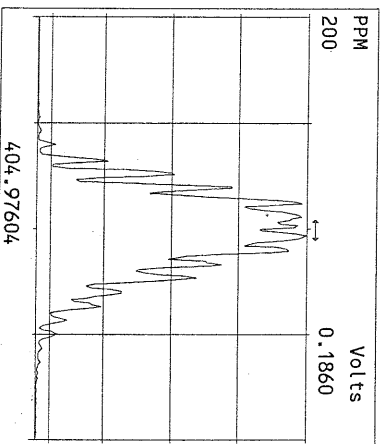
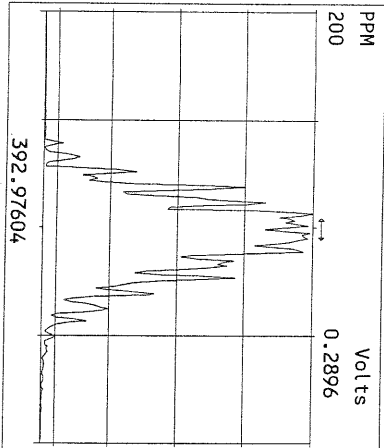
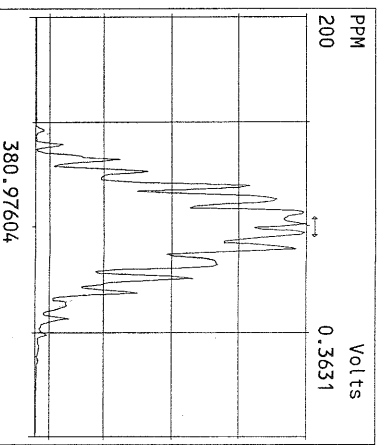
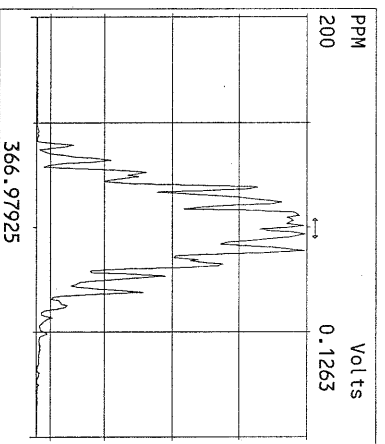
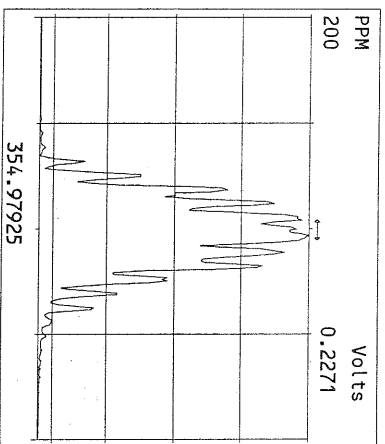
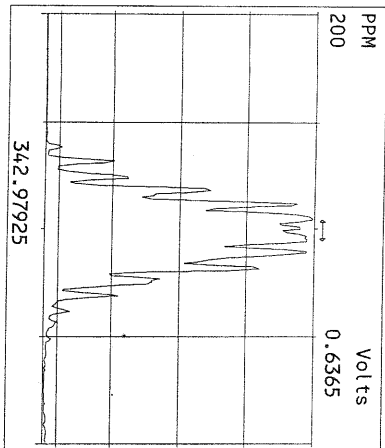
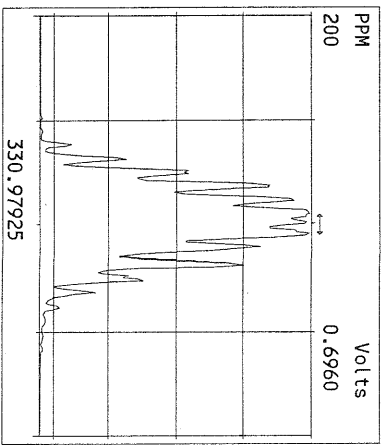
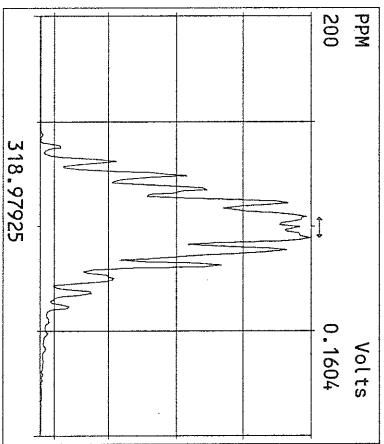
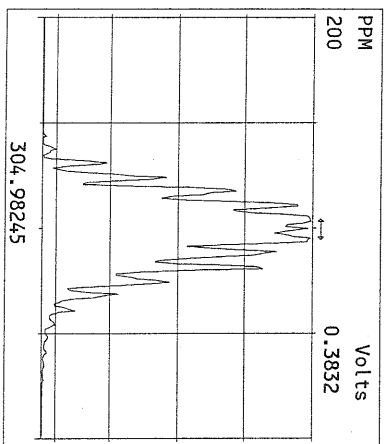
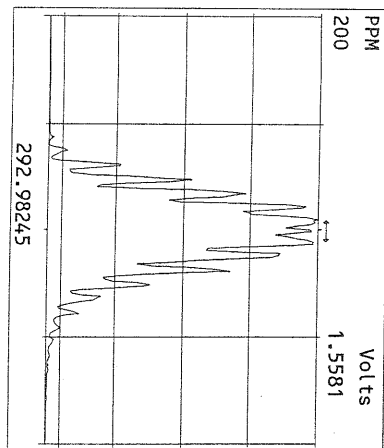
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14NOV08M	3	1565-001-0001-LC2	LCS2	14-NOV-08 18:04:10	ST111408M1	ST111408M2	TC
14NOV08M	4	QC111408M1	QC1	14-NOV-08 18:59:24	ST111408M1	ST111408M2	TC
14NOV08M	5	1565-001-0001-MB	Method Blank	14-NOV-08 19:54:39	ST111408M1	ST111408M2	TC
14NOV08M	6	5175-001-0001-SA	OFF01-110408	14-NOV-08 20:49:53	ST111408M1	ST111408M2	TC
14NOV08M	7	5175-002-0001-SA	OFF02-110408	14-NOV-08 21:45:08	ST111408M1	ST111408M2	TC
14NOV08M	8	SB111408M1	Solvent Blank	14-NOV-08 22:40:23	ST111408M1	ST111408M2	TC
14NOV08M	9	ST111408M2	AIR CS3 (061228I)	14-NOV-08 23:35:35	ST111408M1	ST111408M2	TC
14NOV08M	10	ST111408M3	1613 CS3 (080827J)	15-NOV-08 00:30:50	ST111408M3	ST111408M4	TC
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14NOV08M	12	QC111408M2	QC2	15-NOV-08 02:21:23	ST111408M3	ST111408M4	TC
14NOV08M	13	1562-001-0001-MB	Method Blank	15-NOV-08 03:16:34	ST111408M3	ST111408M4	TC
14NOV08M	14	5165-004-0001-SA	RG-5B-01	15-NOV-08 04:11:49	ST111408M3	ST111408M4	TC
14NOV08M	15	5165-005-0001-SA	RIMW-1-01	15-NOV-08 05:07:03	ST111408M3	ST111408M4	TC
14NOV08M	16	5165-006-0001-SA	RIMW-1-02	15-NOV-08 06:02:17	ST111408M3	ST111408M4	TC
14NOV08M	17	5165-007-0001-SA	RIMW-1-05	15-NOV-08 06:57:28	ST111408M3	ST111408M4	TC
14NOV08M	18	5165-011-0001-SA	RIMW-10-01	15-NOV-08 07:52:39	ST111408M3	ST111408M4	TC
14NOV08M	19	5165-012-0001-SA	SW-29-01	15-NOV-08 08:47:49	ST111408M3	ST111408M4	TC
14NOV08M	20	5165-008-0001-SA	RIMW-7-01	15-NOV-08 09:43:05	ST111408M3	ST111408M4	TC
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14NOV08M	23	5165-005-0002-MSD	RIMW-1-01	15-NOV-08 12:28:57	ST111408M3	ST111408M4	TC
14NOV08M	24	SB111408M2	Solvent Blank	15-NOV-08 13:24:11	ST111408M3	ST111408M4	TC
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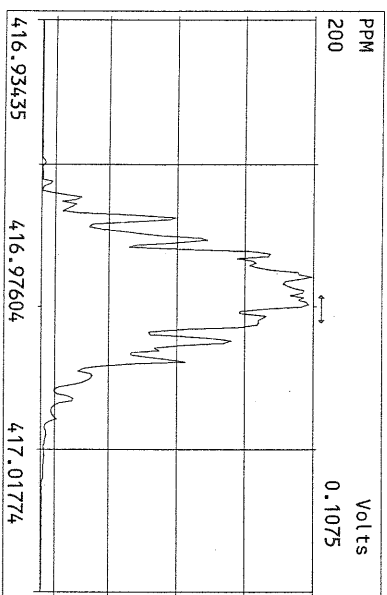
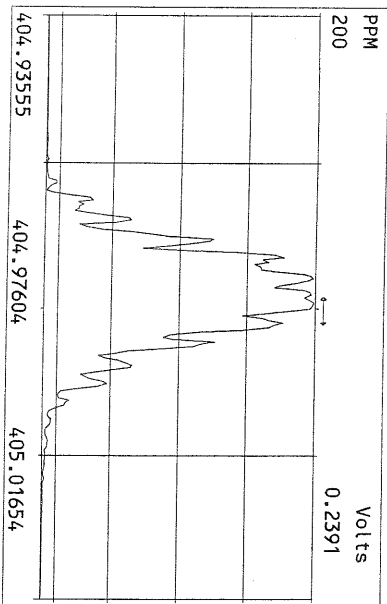
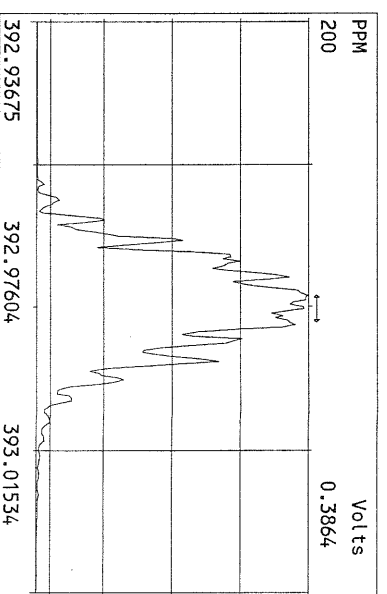
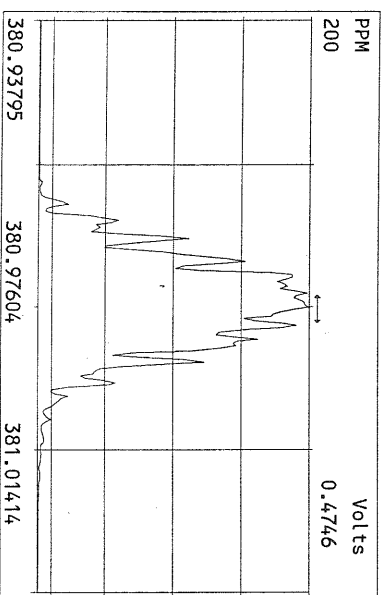
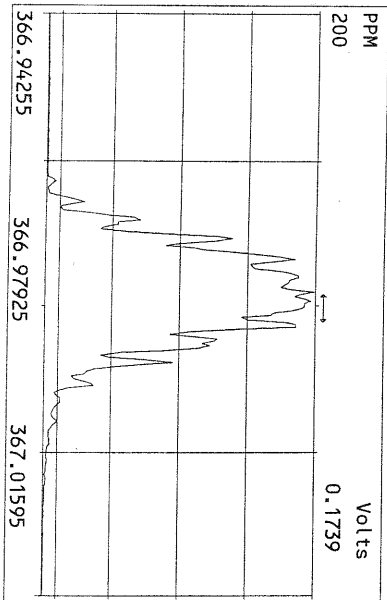
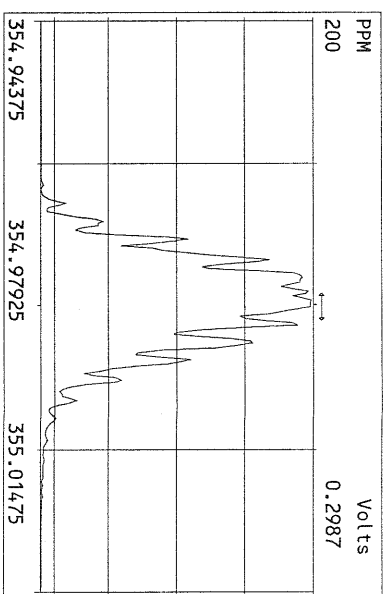
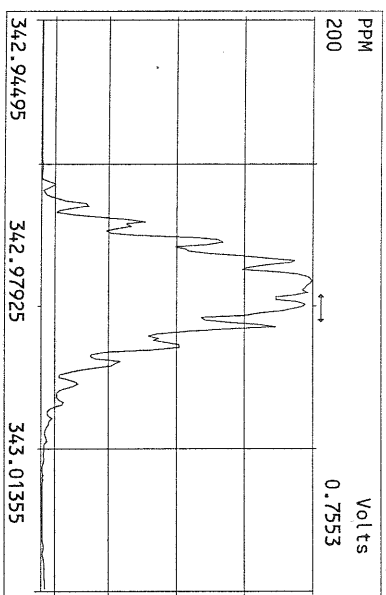
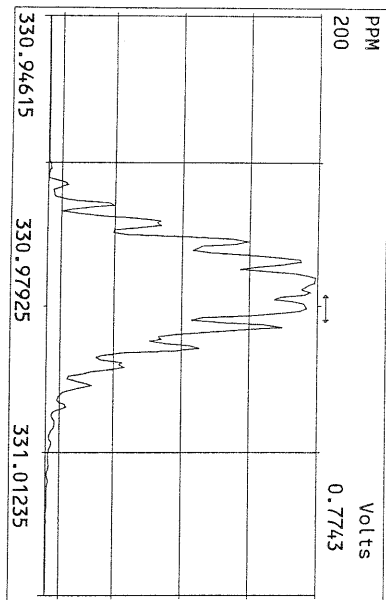


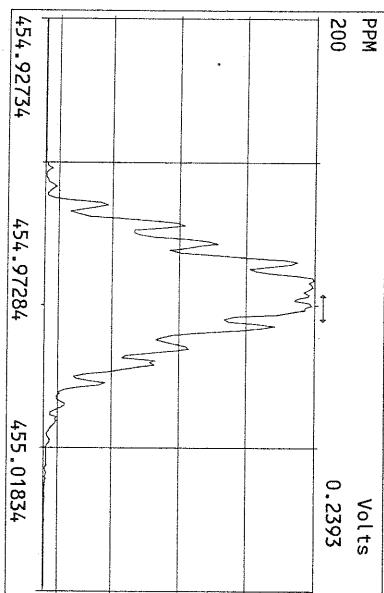
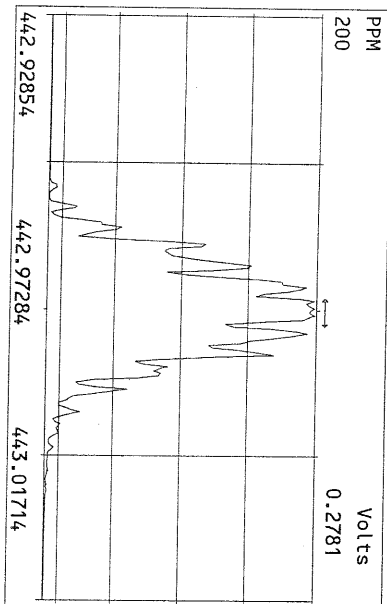
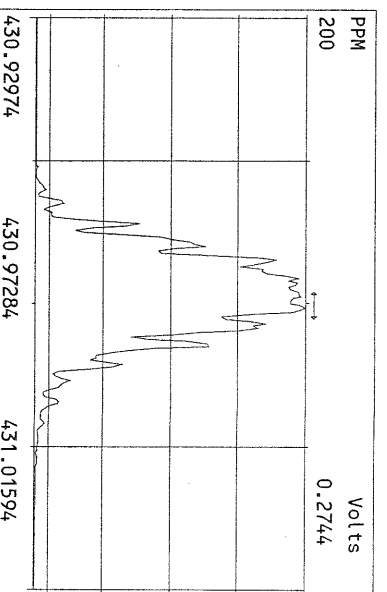
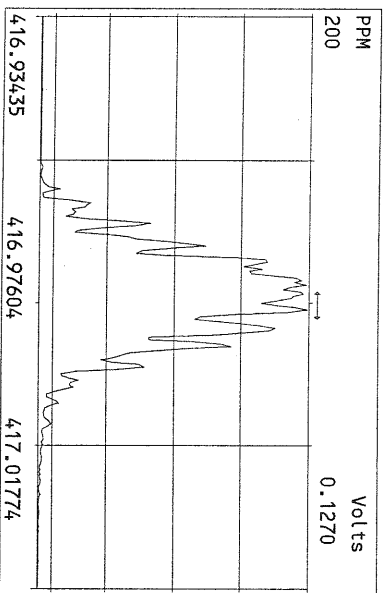
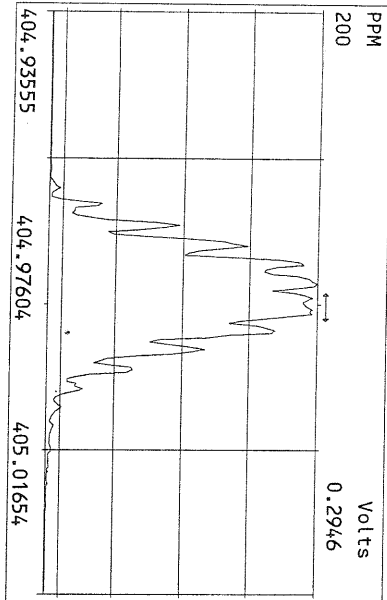
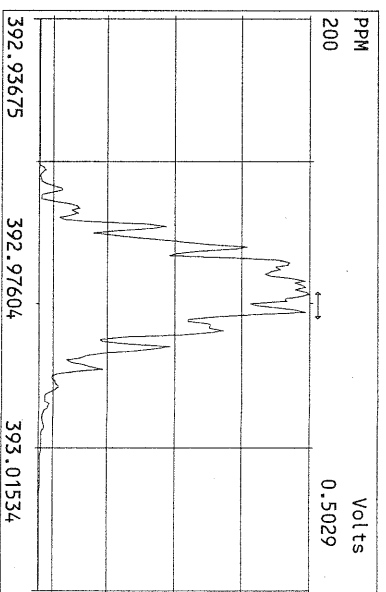
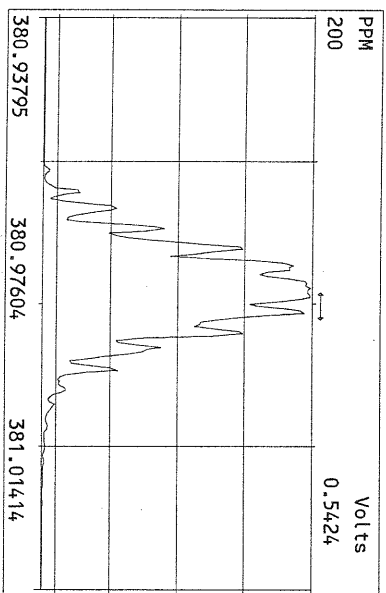
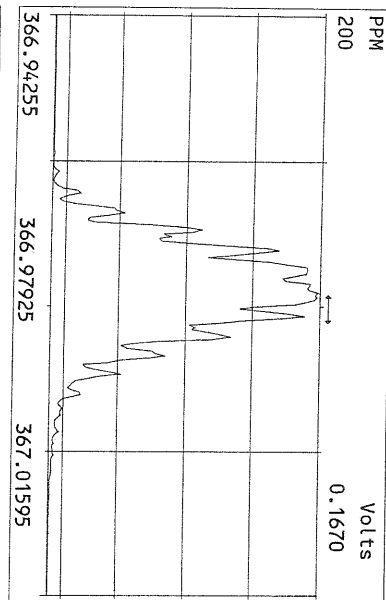
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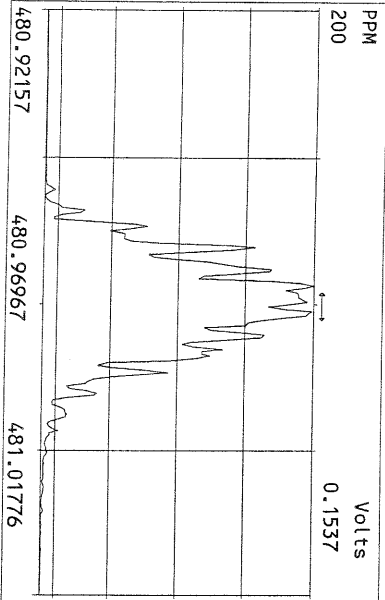
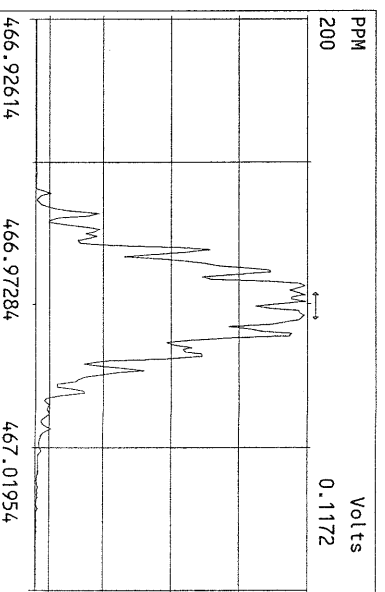
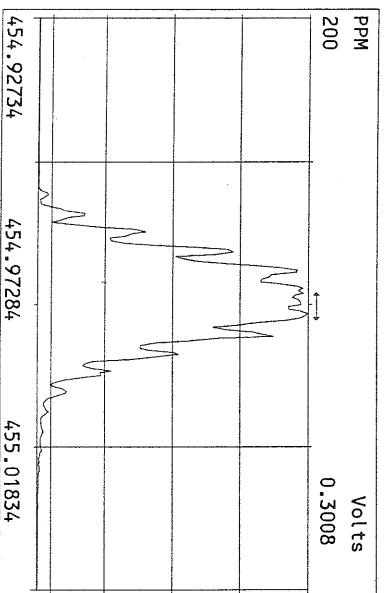
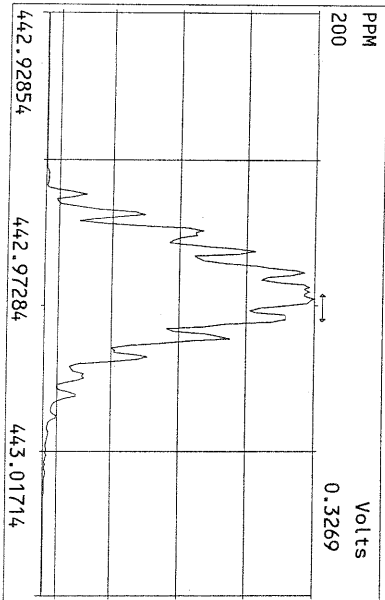
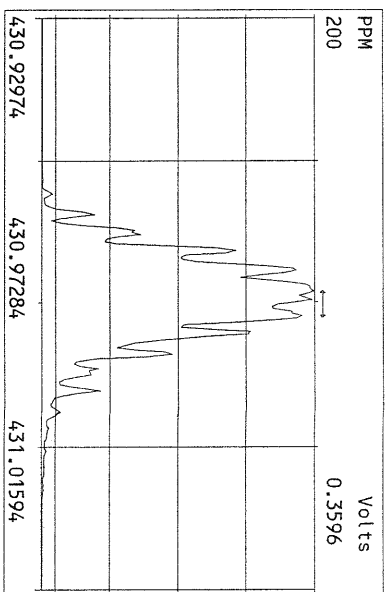
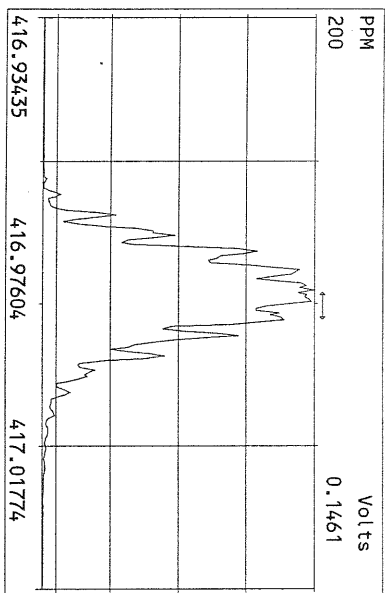
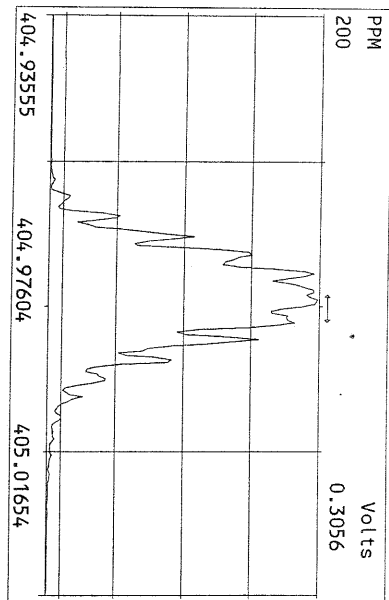
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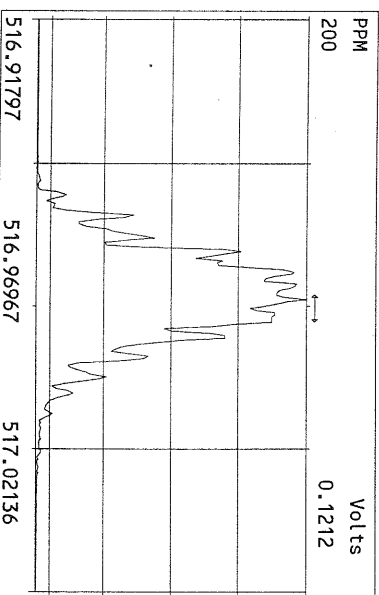
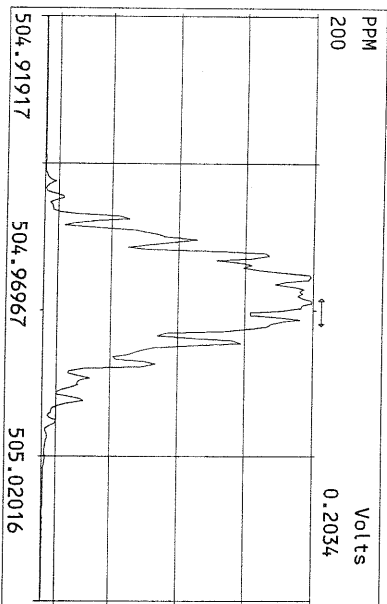
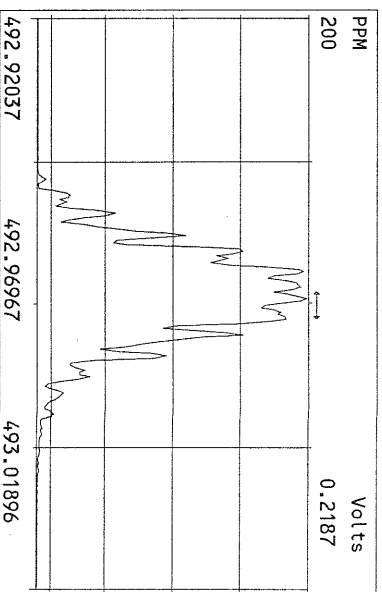
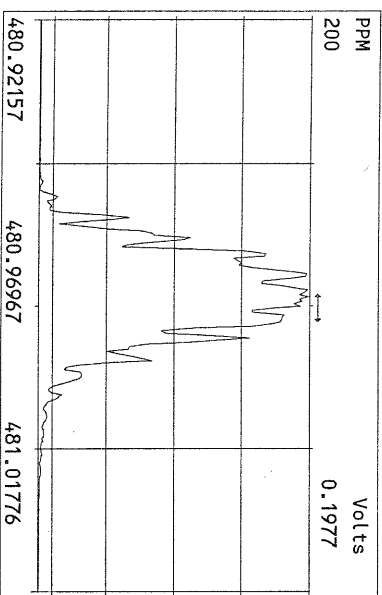
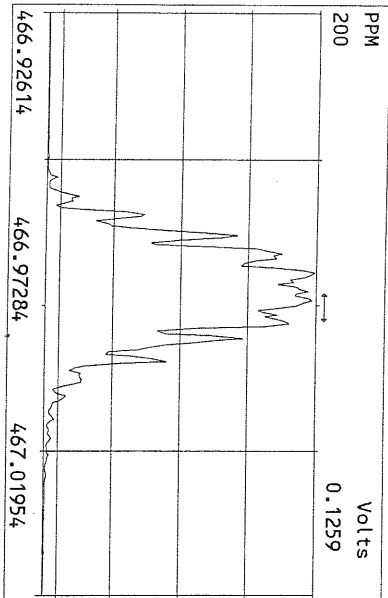
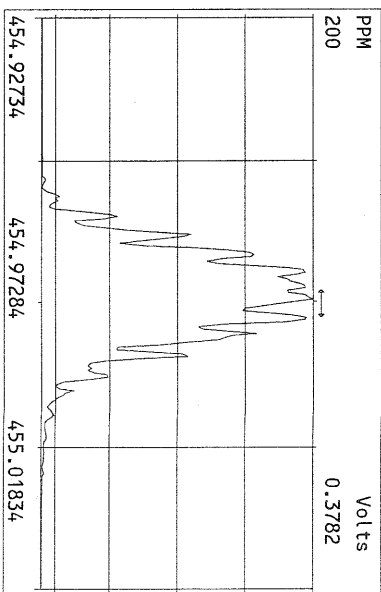
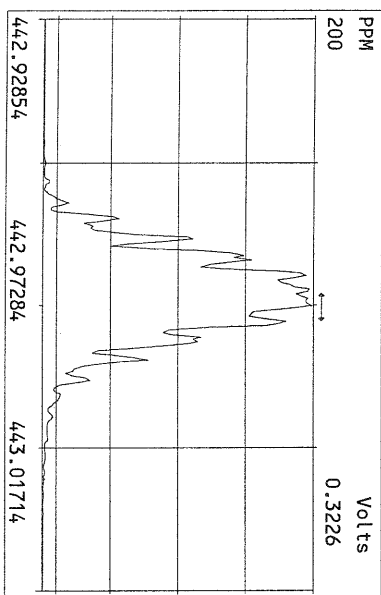
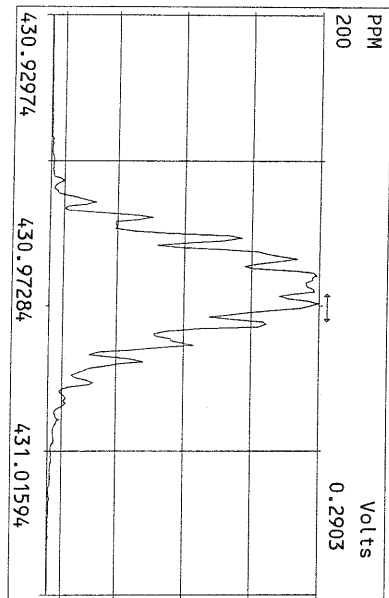
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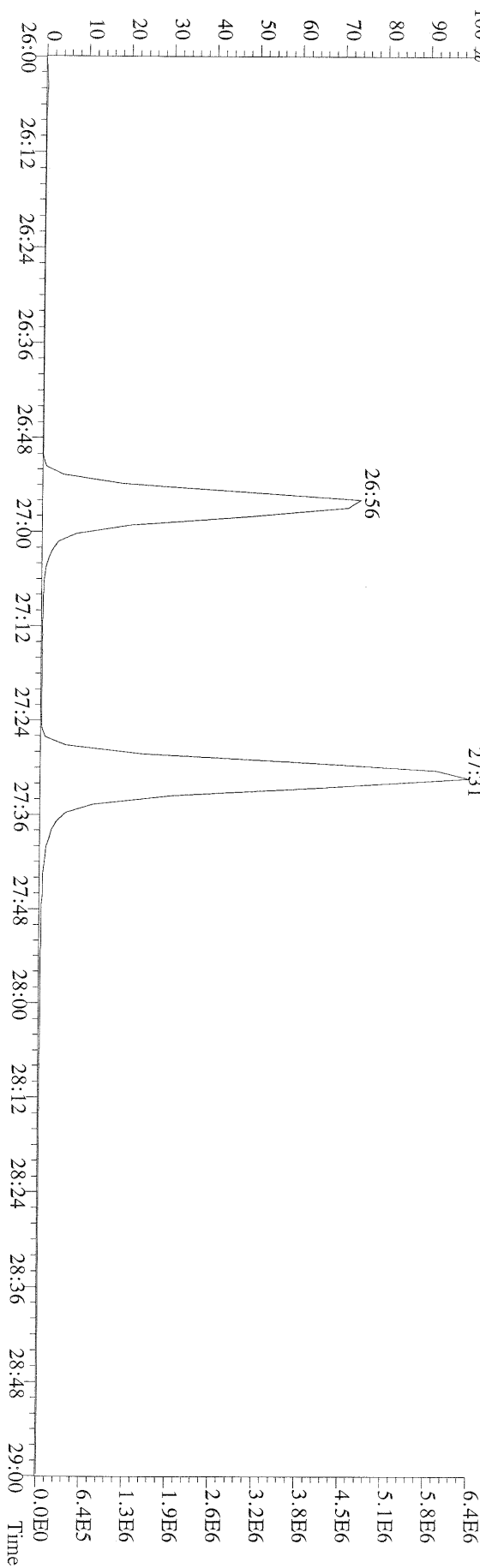
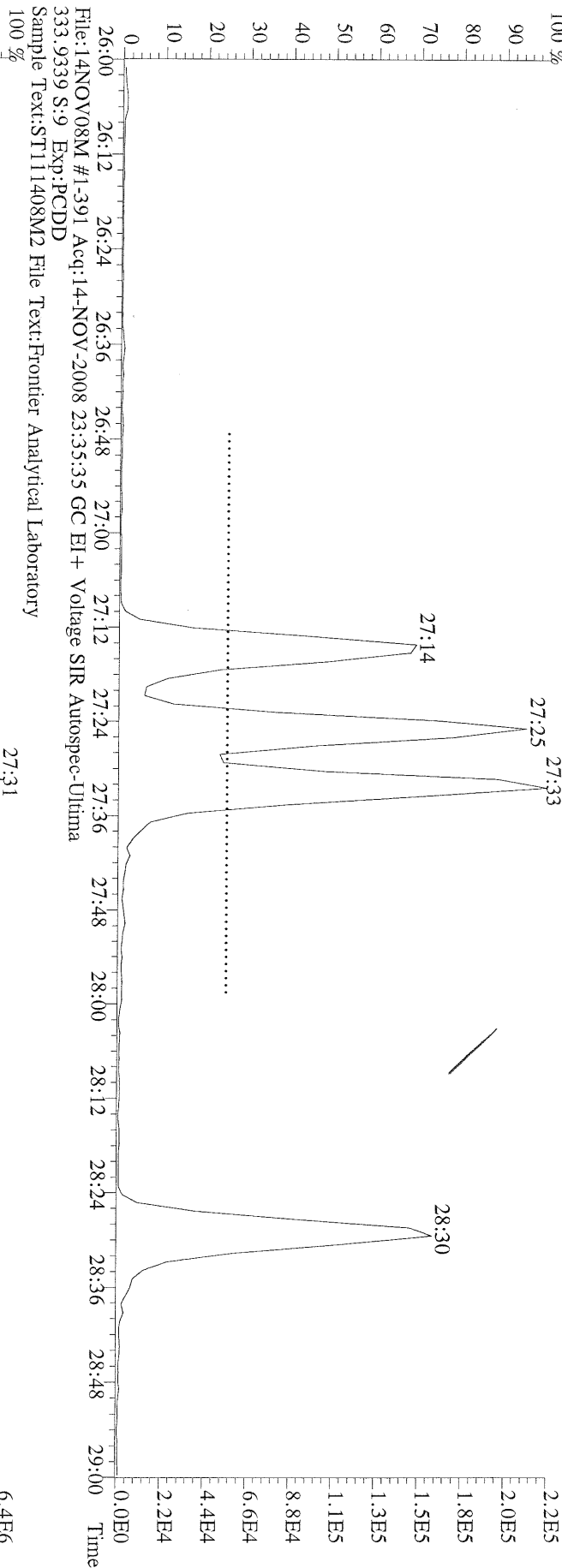




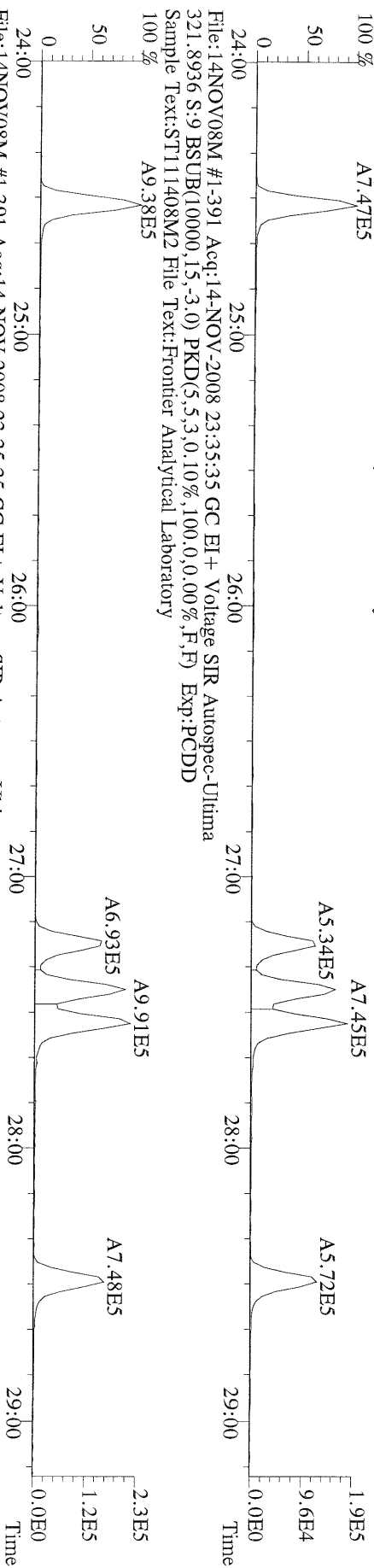




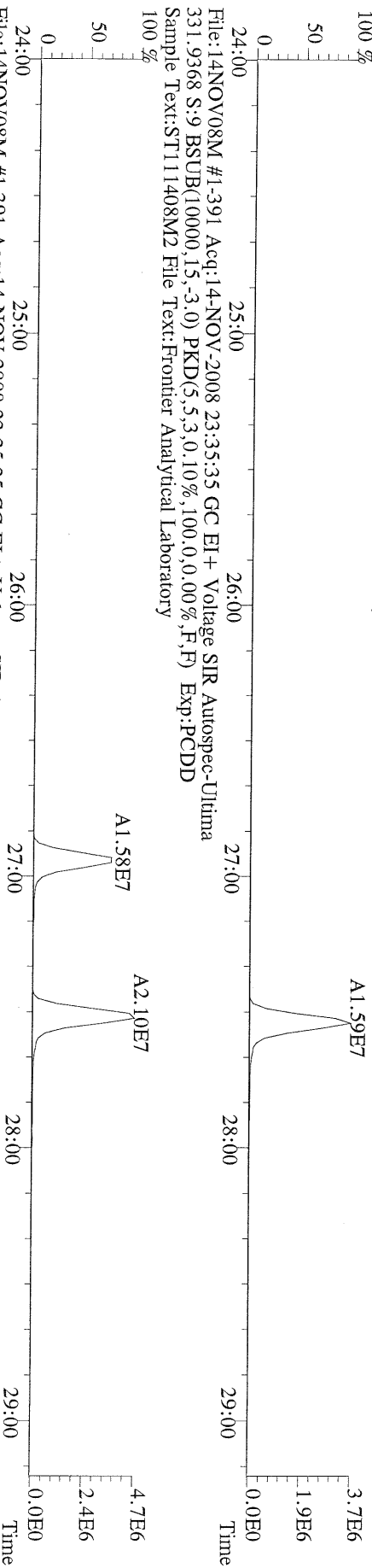
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321.8936 S:9 Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory
100 %



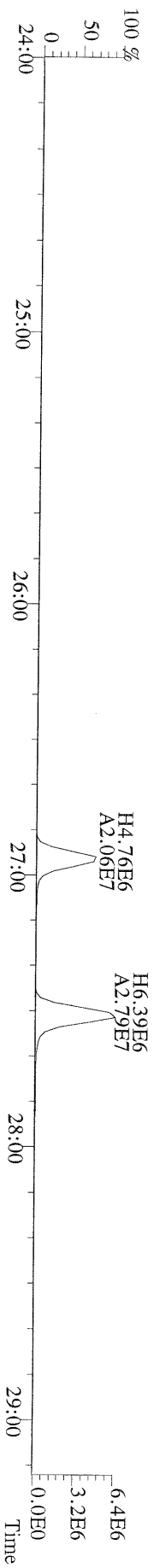
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319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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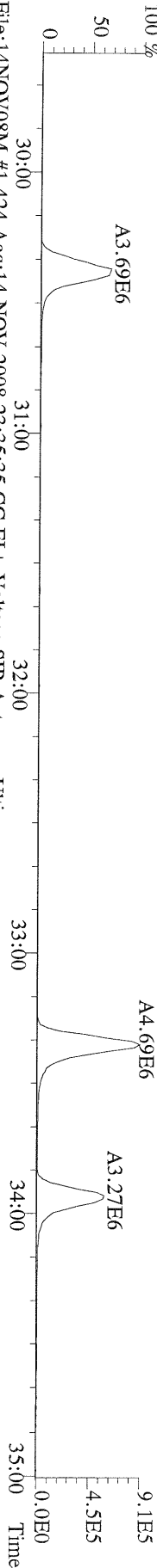
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Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



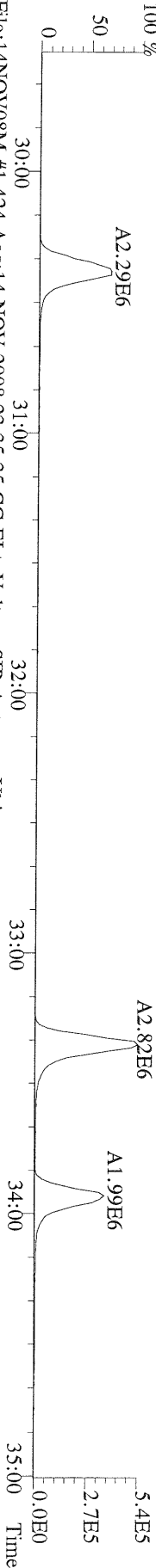
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333.9339 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



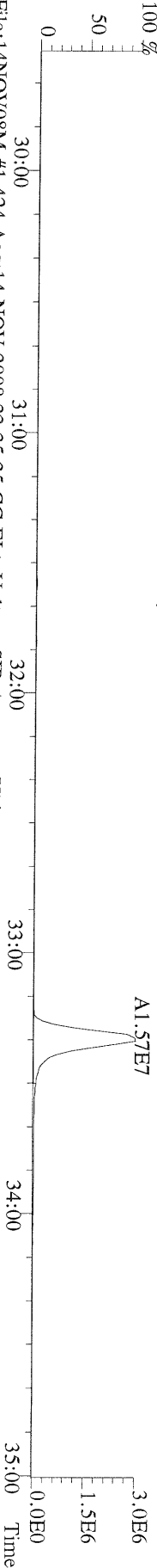
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355.8546 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



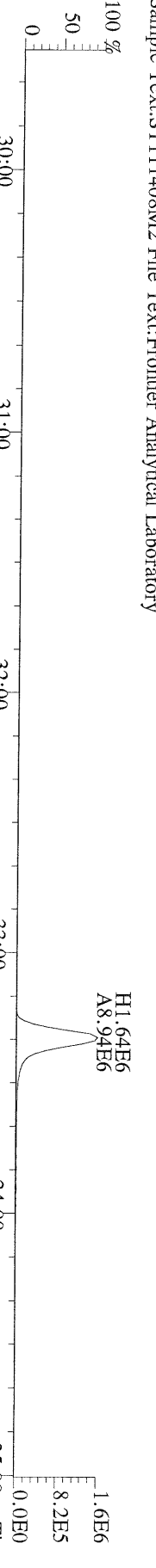
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357.8517 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



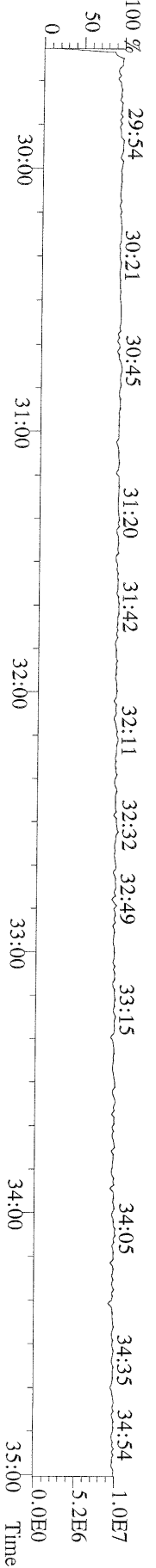
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367.8949 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,100.0,0.00%,F,F) Exp:PCDD
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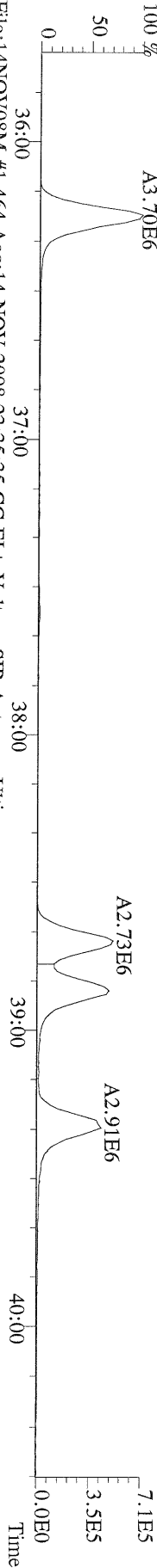
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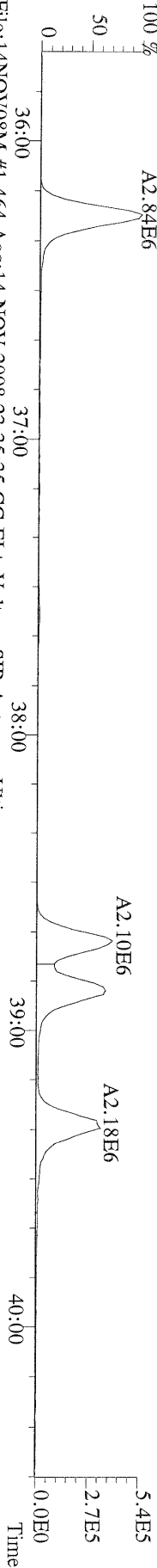
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LOCK MASS CHECK S:9 F:2 Exp:PCDD
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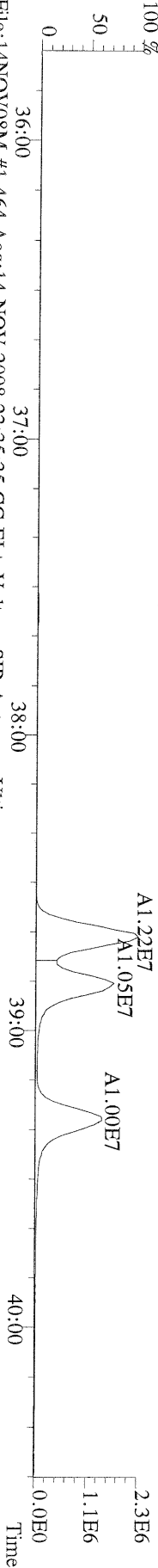
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389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



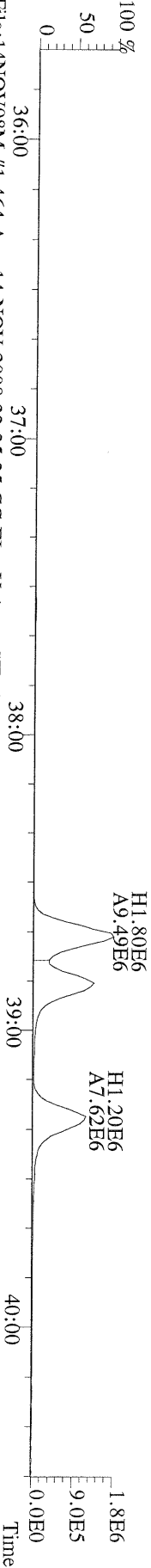
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391.8127 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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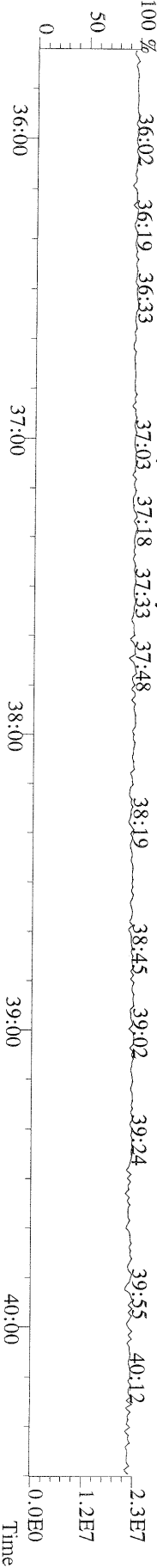
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401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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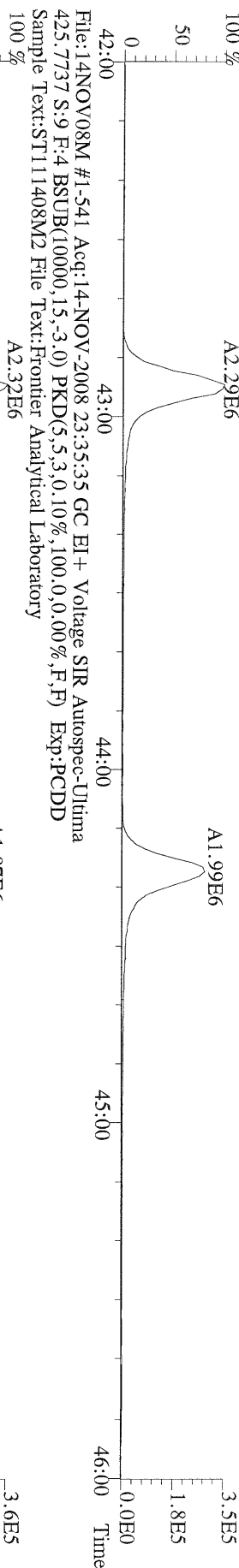
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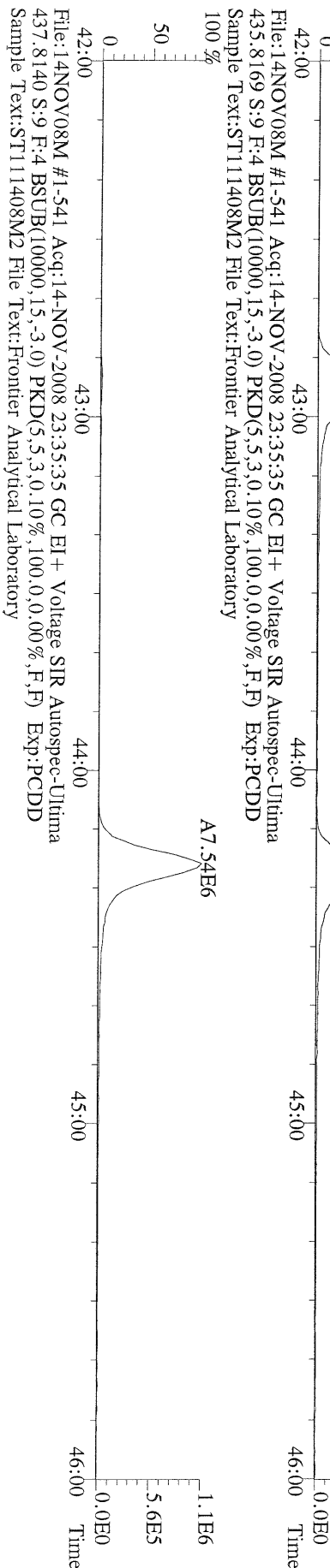
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Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



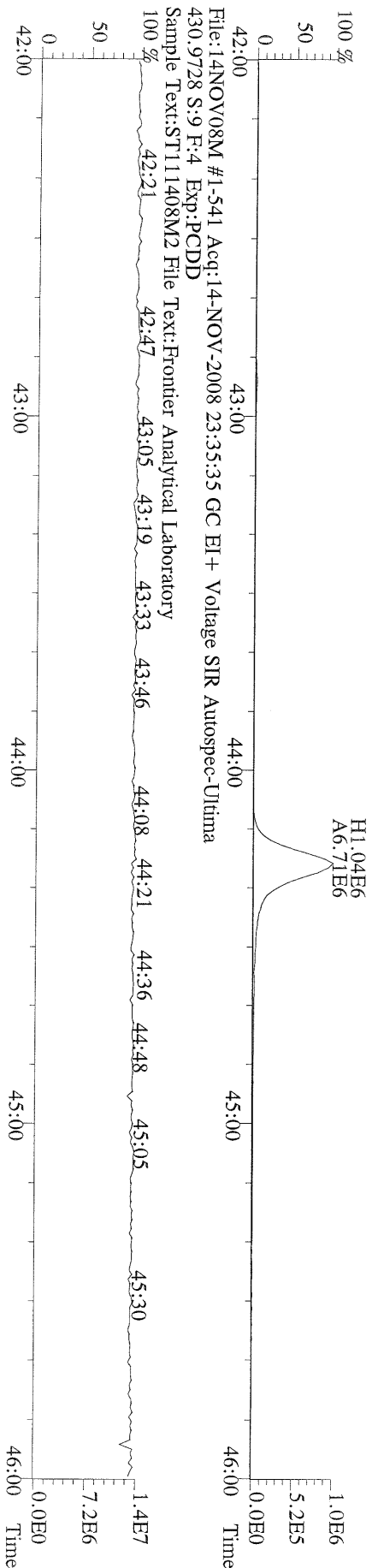
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423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



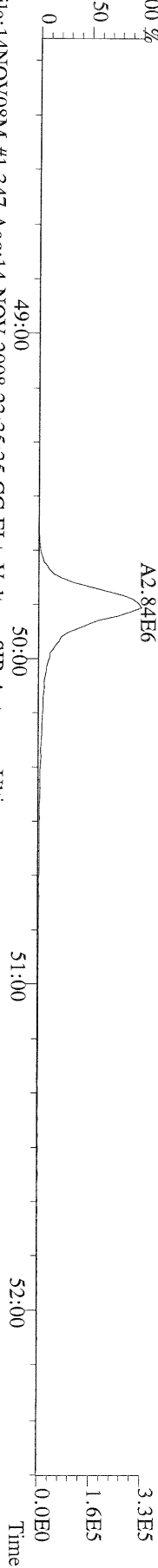
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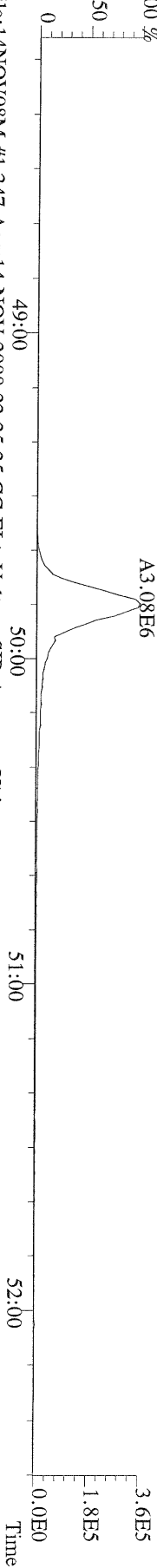
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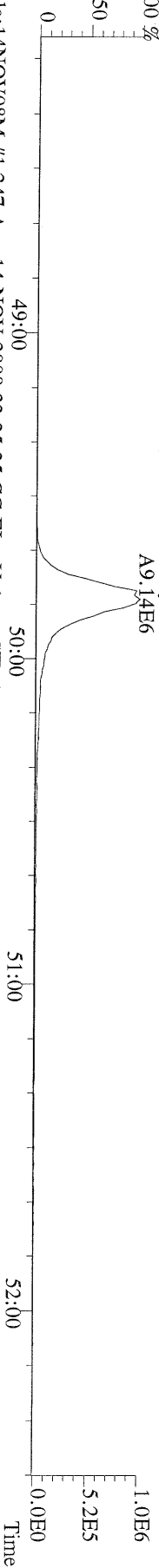
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457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



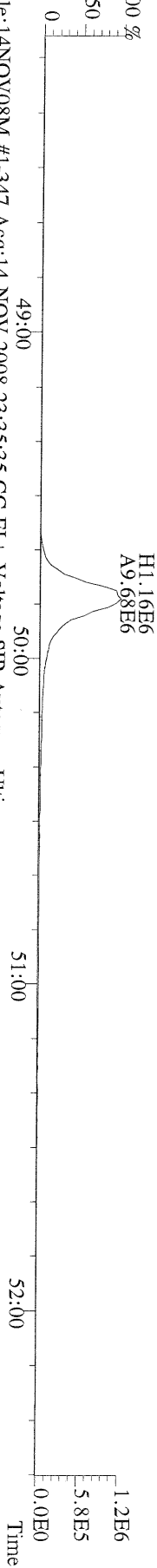
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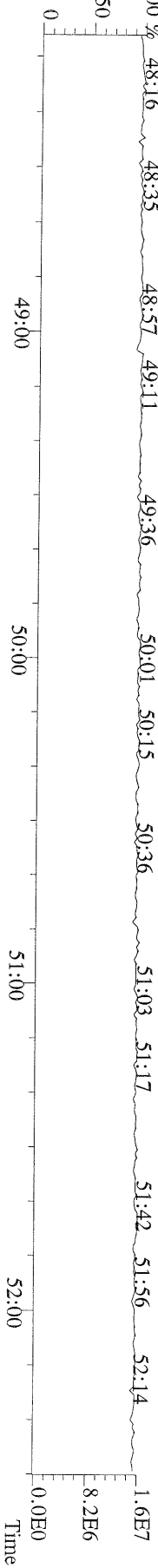
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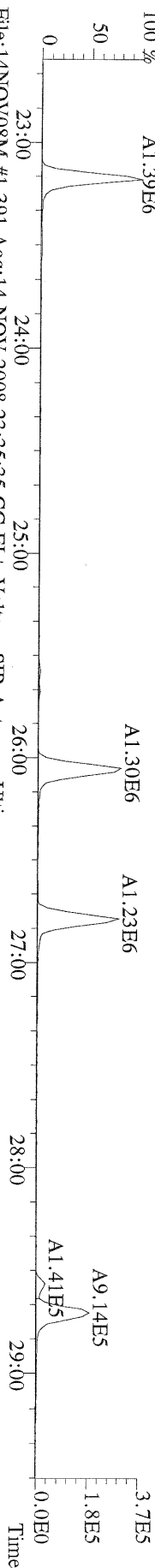
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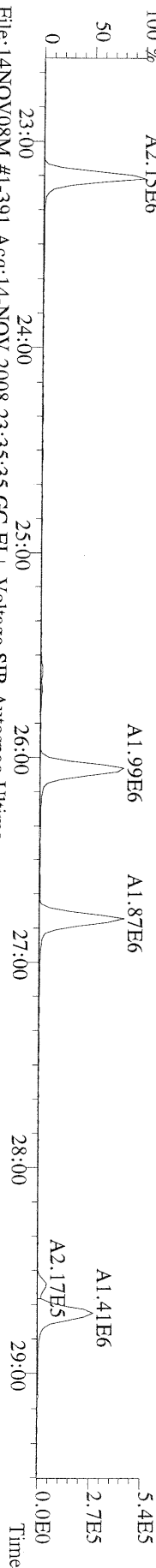
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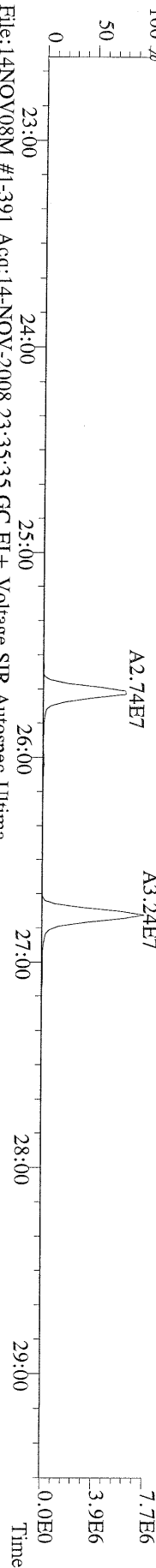
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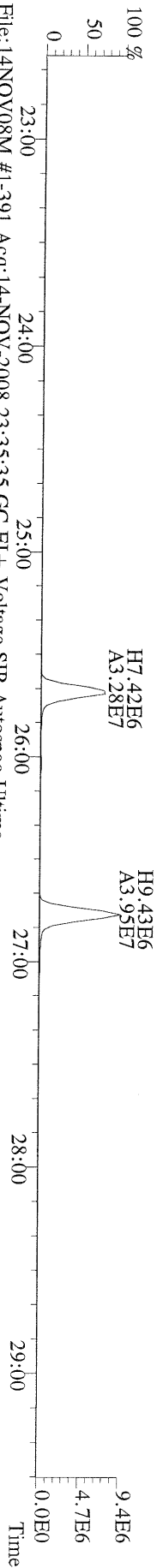
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305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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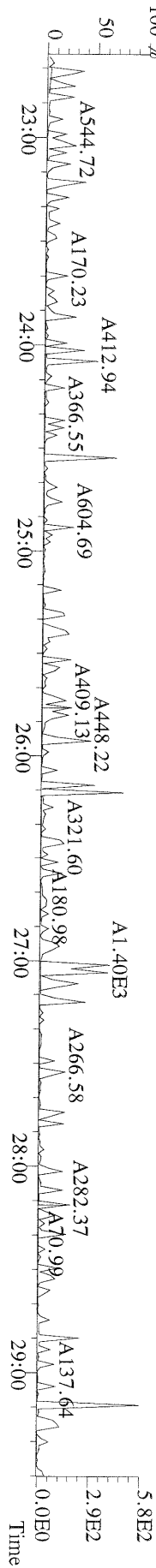
File:14NOV08M #1-391 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



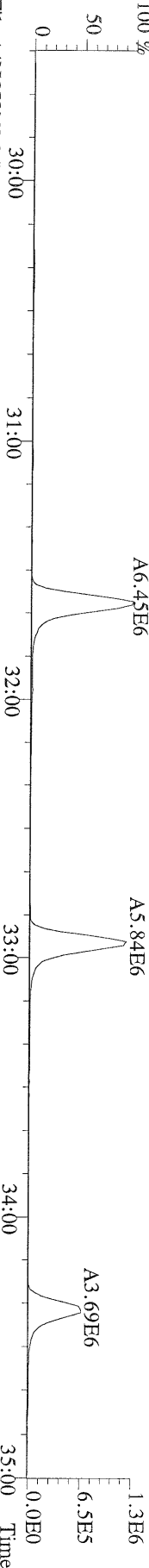
File:14NOV08M #1-391 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



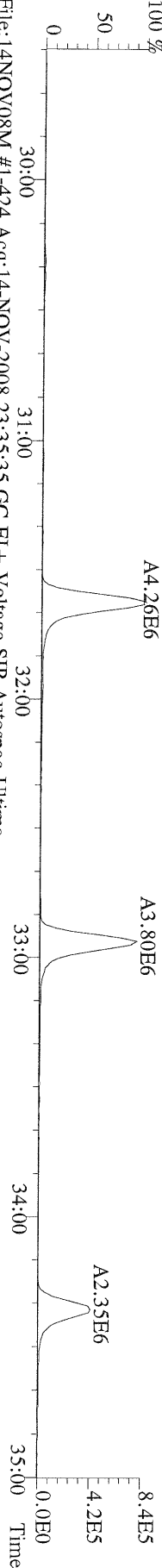
File:14NOV08M #1-391 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



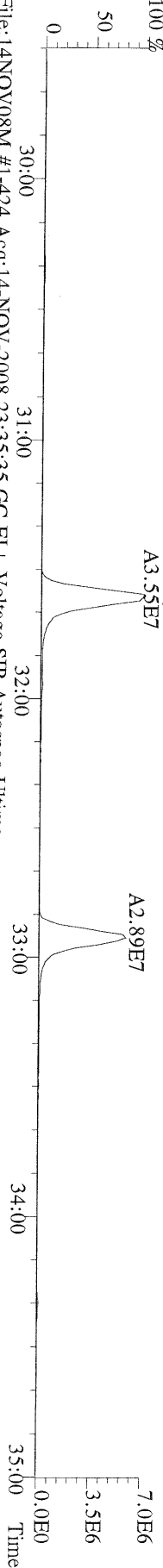
File:14NOV08M #1-424 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



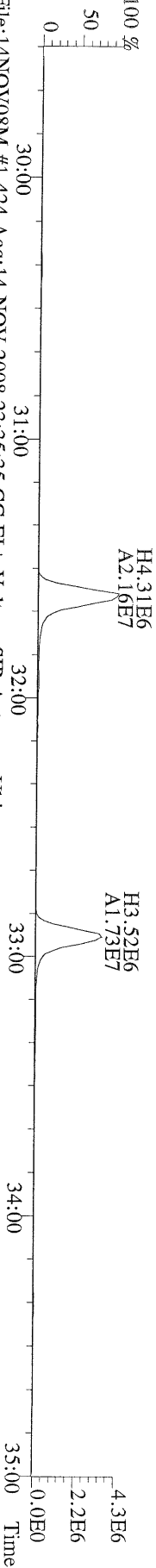
File:14NOV08M #1-424 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



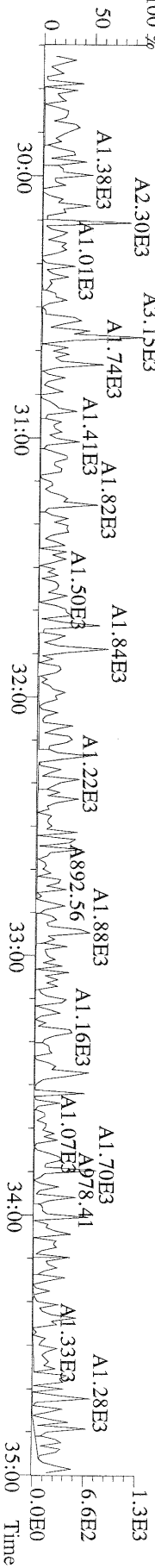
File:14NOV08M #1-424 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



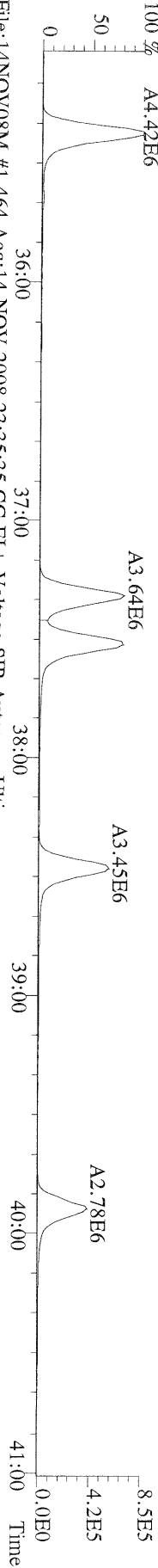
File:14NOV08M #1-424 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



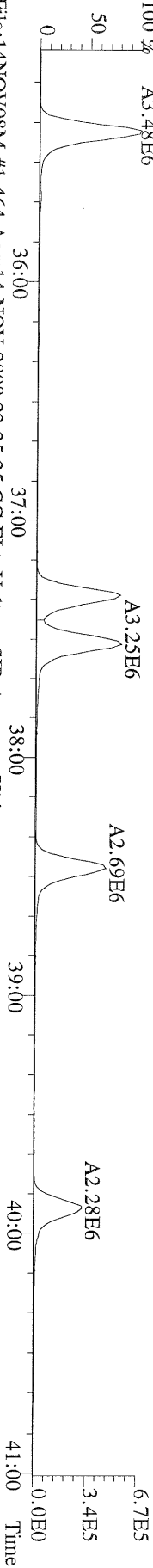
File:14NOV08M #1-424 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



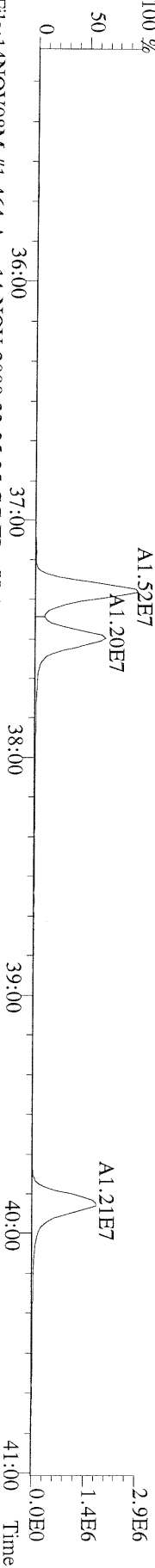
File:14NOV08M #1-464 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



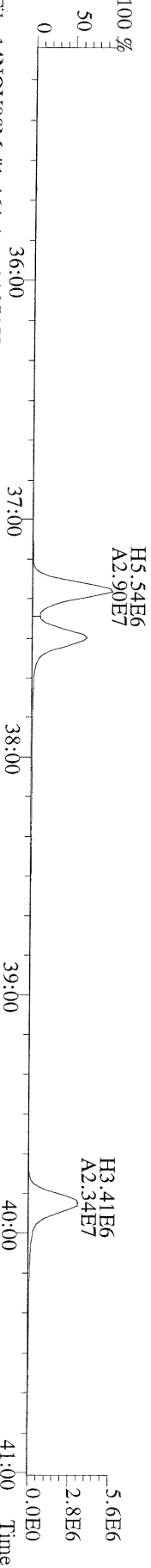
File:14NOV08M #1-464 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



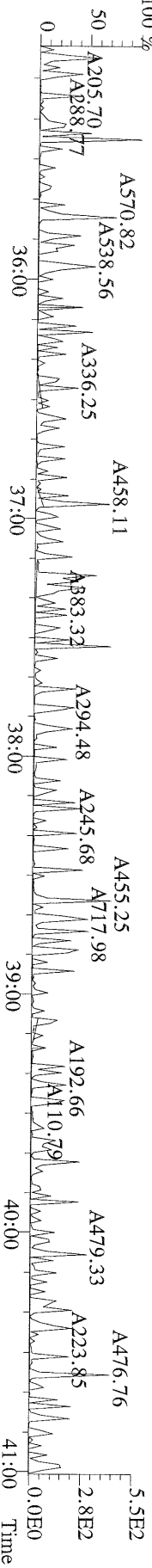
File:14NOV08M #1-464 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



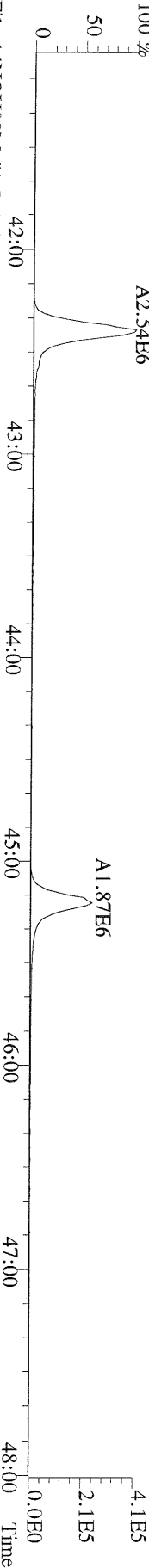
File:14NOV08M #1-464 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



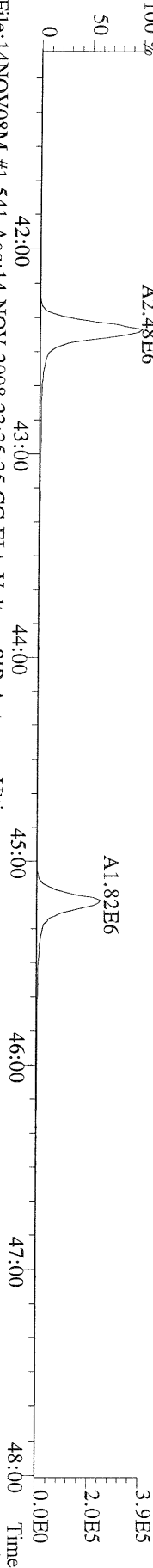
File:14NOV08M #1-464 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



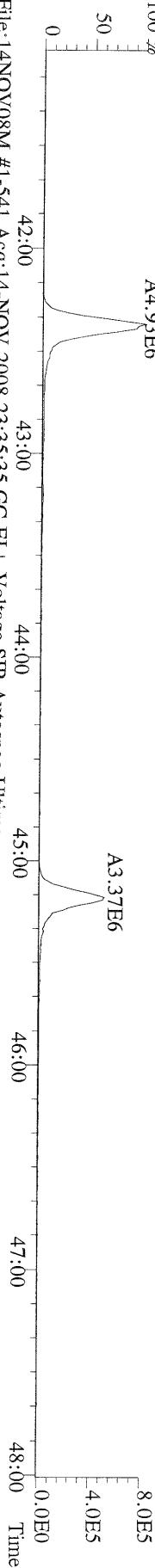
File:14NOV08M #1-541 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



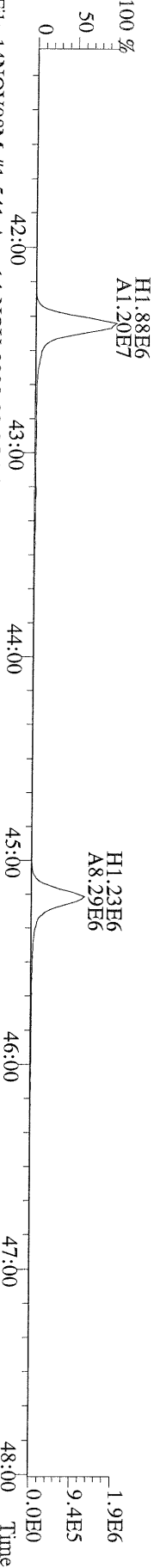
File:14NOV08M #1-541 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



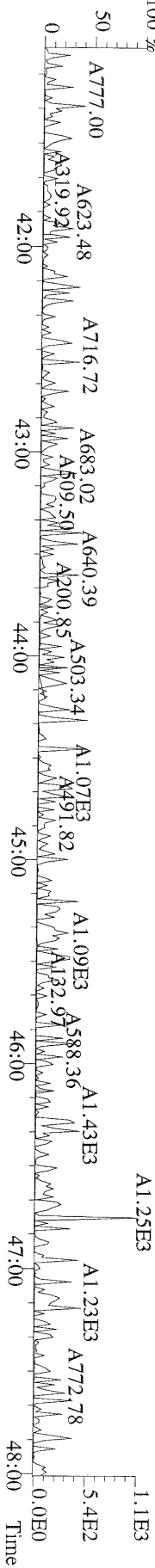
File:14NOV08M #1-541 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



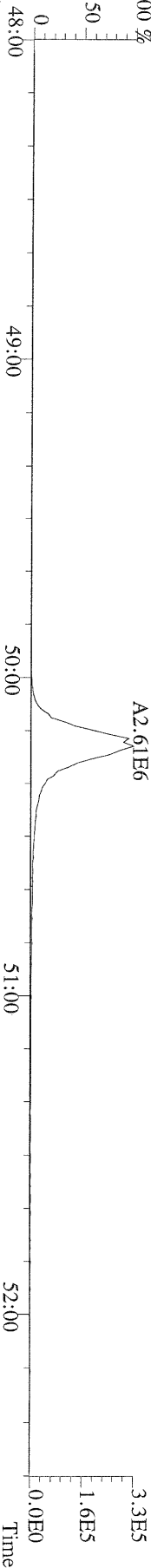
File:14NOV08M #1-541 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



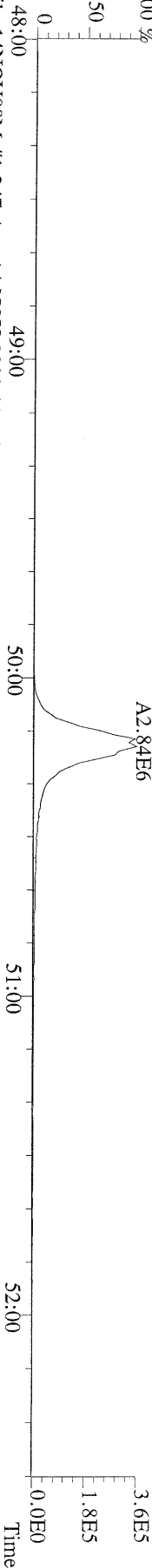
File:14NOV08M #1-541 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



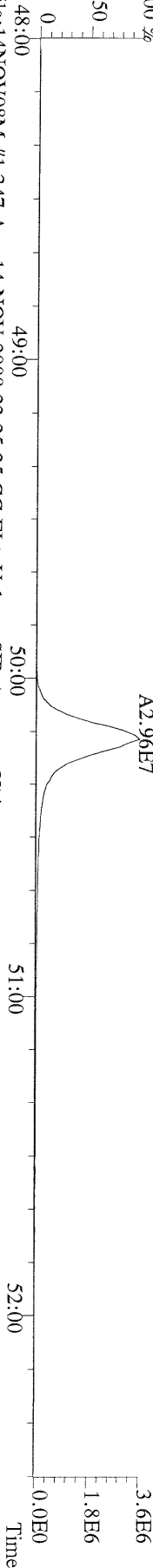
File:14NOV08M #1-347 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory
100 %



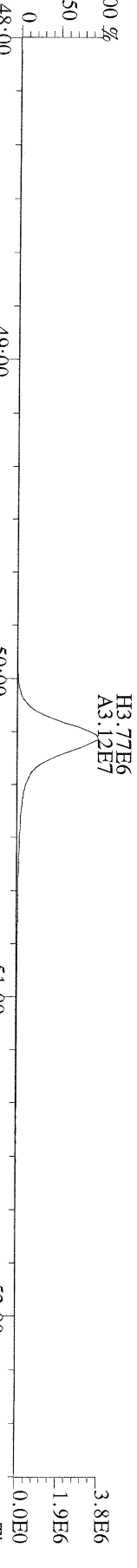
File:14NOV08M #1-347 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory
100 %



File:14NOV08M #1-347 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory
100 %



File:14NOV08M #1-347 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory



File:14NOV08M #1-347 Acq:14-NOV-2008 23:35:35 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111408M2 File Text:Frontier Analytical Laboratory
100 %

