

EPA Method 1613
PCDD/F



FAL ID: 6005-004-SA
Client ID: CB100022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.483 L

ICal: pcdffal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 18.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	3.14		-	0.212				
1,2,3,7,8-PeCDD	ND	4.03		-	0.302				
1,2,3,4,7,8-HxCDD	7.93	-	J	0.793	0.328				
1,2,3,6,7,8-HxCDD	20.5	-	J	2.05	0.381	Total TCDD	ND	3.14	
1,2,3,7,8,9-HxCDD	14.8	-	J	1.48	0.351	Total PeCDD	ND	4.03	
1,2,3,4,6,7,8-HpCDD	615	-		6.15	0.495	Total HxCDD	114	-	
OCDD	5430	-		1.63	1.02	Total HpCDD	1040	-	
2,3,7,8-TCDF	ND	1.68		-	0.112				
1,2,3,7,8-PeCDF	ND	3.31		-	0.219				
2,3,4,7,8-PeCDF	ND	3.51		-	0.232				
1,2,3,4,7,8-HxCDF	23.8	-	J	2.38	0.162				
1,2,3,6,7,8-HxCDF	16.1	-	J	1.61	0.167				
2,3,4,6,7,8-HxCDF	10.0	-	J	1.00	0.167				
1,2,3,7,8,9-HxCDF	ND	2.82		-	0.185	Total TCDF	28.9	-	D,M
1,2,3,4,6,7,8-HpCDF	154	-		1.54	0.251	Total PeCDF	96.0	-	D,M
1,2,3,4,7,8,9-HpCDF	15.8	-	J	0.158	0.280	Total HxCDF	365	-	D,M
OCDF	376	-		0.113	0.451	Total HpCDF	456	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	80.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	68.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	76.9	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	75.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	82.6	23.0 - 140	
13C-OCDD	84.9	17.0 - 157	
13C-2,3,7,8-TCDF	79.8	24.0 - 169	
13C-1,2,3,7,8-PeCDF	71.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	69.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	70.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	66.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	69.9	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	71.7	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	69.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	73.7	26.0 - 138	
13C-OCDF	70.0	17.0 - 157	

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.3 35.0 - 197

Analyst: [Signature]
Date: 3/25/10

Reviewed By: [Signature]
Date: 3/25/10



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

*60005
 Opc*

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

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: 03/09/10
 Fax Results (Y/N): email

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

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-4796-QL58A	CB31A022410Comp	02/24/10 14:14	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-4797-QL58B	CB4857022410Comp	02/24/10 17:38	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-4798-QL58C	CB1022410Comp	02/24/10 05:38	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-4799-QL58D	CB100022410Comp	02/24/10 15:00	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					

EDP & Full Package

Please hold samples, analysis pending on results of QL95
 Samples taken off hold 3/12/10. Sue to KATHY.

Carrier <i>UPS</i>	Airbill <i>128326450150869347</i>	Date <i>3/1/10</i>
Relinquished by <i>[Signature]</i>	Company <i>ARI</i>	Date <i>3/1/10</i>
Received by <i>Kathy Zep</i>	Company <i>Frontier</i>	Date <i>3-2-10</i>
		Time <i>1600</i>
		Time <i>9:55</i>

Frontier Analytical Laboratory

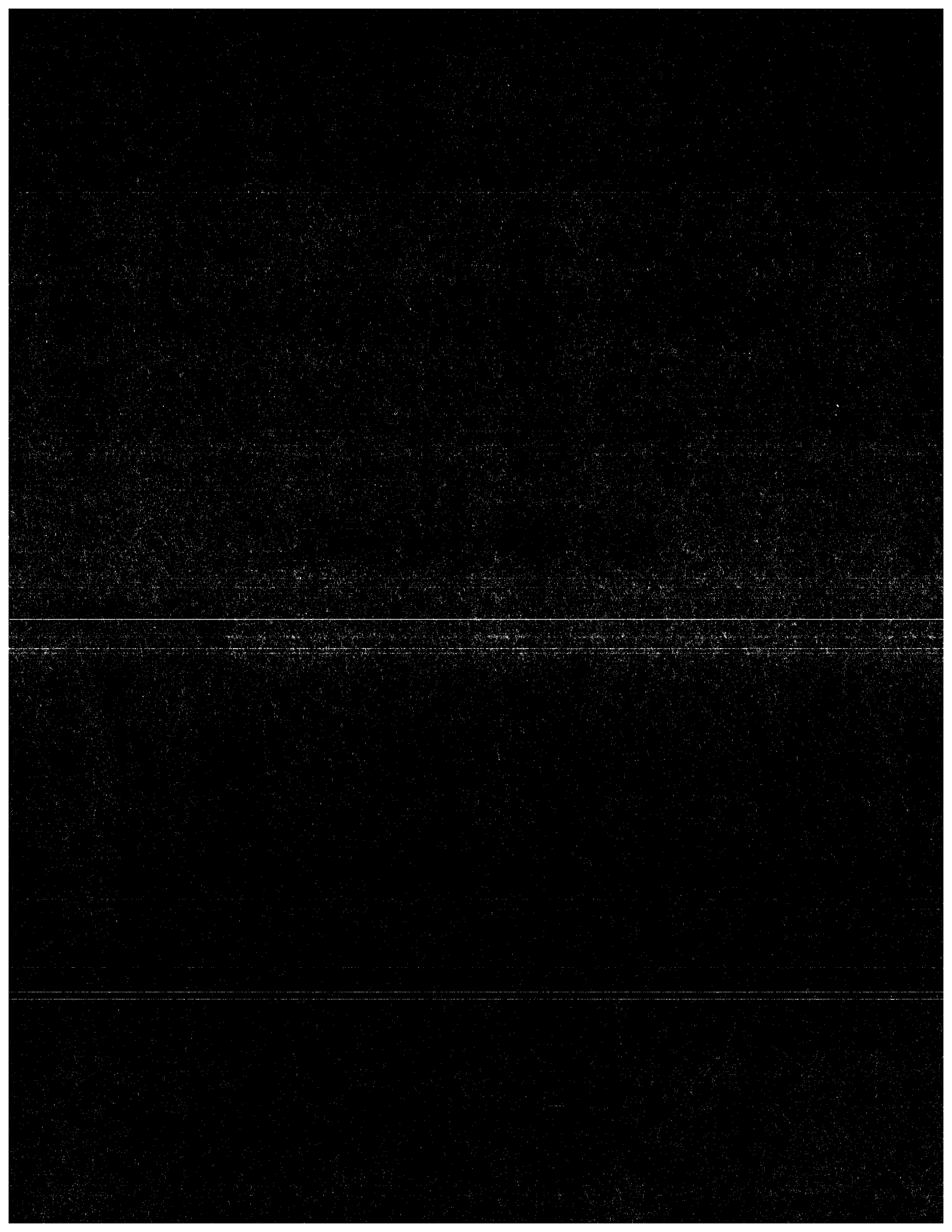
Sample Login Form

FAL Project ID: **6005**

Client:	Analytical Resources Inc. Sue Dunninghoo
Client Project ID:	QL58
Date Received:	03/02/2010
Time Received:	09:55 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	4
Duplicates:	4
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950150869347
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	02/24/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	





Frontier Analytical Laboratory
PROJECT REQUEST SHEET

Project #: 6005 Sample #: 1 - 4 Client Manager: BS
Client: Analytical Resources Inc. Sue Dunnihoo Hold Time: 02/24/2011
Matrix: Aqueous Extraction Batch: 1968 Due Date: 03/24/2010 ^{or} 3/15/10
Method: EPA 1613 D/F Storage: R1
SOP: SOPs: EP2A Rev.7 IP2A Rev.8

COMMENTS/INSTRUCTIONS:

Sample	Full Weight (g)	Empty Weight (g)
6005-001-0001-SA	745.21	259.20
6005-002-0001-SA	738.76	259.47
6005-003-0001-SA	746.49	260.94
6005-004-0001-SA	742.82	259.98

~~On Hold pending results on 6004~~ ^{or} 3/15/10
OFF Hold 3/15/2010
Level IV data package with EDD.

Results: 6005

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

Extract/s located in box: "Cowboy's From Hell"

Standards: 6005

Frontier Analytical Laboratory
 Percent Solids

FAL Project: 6005

	Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv
1.29	6005-001-0001-SA	GG	3/22/10	11.37	0.00	0.00	/
1.29	6005-002-0001-SA	↓	↓	11.61	0.00	0.00	
1.28	6005-003-0001-SA	↓	↓	9.69	0.00	0.00	
1.29	6005-004-0001-SA	↓	↓	13.78	0.00	0.00	

% Solids Summary:

Non-Filtered Determination

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

Filtered Determination

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

% Solids calculation

EXTRACTION SHEET

Project #: 6005 Extraction Date: 2010-03-22 Extraction Chemist: GG

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX

Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS	NS	CSS
			Amt: 10.0uL ID: 090918A Vial: 4 Chemist/Witness/Date	Amt: 10.0uL ID: 090918 Vial: 4 Chemist/Witness/Date	Amt: 10.0uL ID: 090918C Vial: 4 Chemist/Witness/Date
1968-001-0001-MB					
1968-001-0001-OPR					
6005-001-0001-SA	0.486L	/	GG GN 3/22/10	NA	GG GN 3/23/10
6005-002-0001-SA	0.479L		↓	↓	↓
6005-003-0001-SA	0.486L				
6005-004-0001-SA	0.483L				

6023

AX-21 Charcoal Cleaned	083109	Acetone	49317	Acid Alumina	08623DJ	Hexane	49272
Hydrochloric Acid	B08505	Methanol	096021	Methylene Chloride (DCM)	50022	Silica Gel	TA1593034
Sodium Hydroxide	9265	Sodium Sulfate	49009905	Sulfuric Acid	094134	Tetradecane	081394
Toluene	49161	Water	49315	C-18 Empore Discs	320504	Cyclohexane	48149

Comments:

CLEANUP SHEET

Project #: 6005

Method/Analysis: EPA 1613 D/F

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	<u>MSG/AA</u>	<u>NA</u>	<u>NA</u>	Amt: 10.0uL ID: 090918D Vial: 6
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
1968-001-0001-MB				
1968-001-0001-OPR				
6005-001-0001-SA	<u>GG 3/23/10</u>	<u>NA</u>	<u>NA</u>	<u>GG [initials] 3/23/10</u>
6005-002-0001-SA	↓	↓	↓	↓
6005-003-0001-SA				
6005-004-0001-SA				

6023

Comments:



Sample Results

FAL ID: 1968-001-0001-MB Filename: 24MAR10M Sam:3 Acquired: 24-MAR-10 11:21:58 ICal: pcddfal3-11-18-09
 Client ID: Method Blank ConCal: ST032410M1 EndCal: ST032410M2
 Results: 6005 GC Column: DB5 Amount: 1.000/

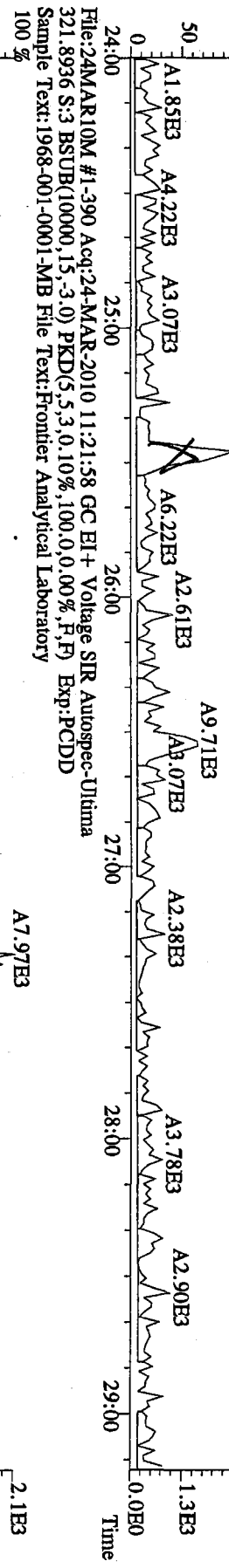
NATO 1989 Tox: 0.00 WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00
 Conc Qual Fac Noise-1 Noise-2 DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.02	*		2.50	267	347	0.781	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	*		2.50	556	271	1.48	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	451	414	1.70	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.34	*		2.50	451	414	2.03	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.37	*		2.50	451	414	1.85	0
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.17	*		2.50	434	302	2.63	0
OCDD	*	* n	NotFnd	1.21	*		2.50	308	402	4.43	0
2,3,7,8-TCDF	*	* n	NotFnd	1.29	*		2.50	456	615	0.637	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	476	535	1.27	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.91	*		2.50	476	535	1.34	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.00	*		2.50	483	386	1.52	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	483	386	1.59	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.99	*		2.50	483	386	1.59	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.09	*		2.50	483	386	1.92	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	287	523	2.09	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.61	*		2.50	287	523	2.53	0
OCDF	*	* n	NotFnd	0.84	*		2.50	286	375	3.83	0
13C-2,3,7,8-TCDD	1.73e+07	0.74 y	27:18	0.94	1670					83.6	
13C-1,2,3,7,8-PeCDD	1.45e+07	1.54 y	33:09	1.02	1300					64.8	
13C-1,2,3,4,7,8-HxCDD	9.02e+06	1.34 y	38:32	0.98	1530					76.6	
13C-1,2,3,6,7,8-HxCDD	8.48e+06	1.31 y	38:42	0.94	1510					75.6	
13C-1,2,3,4,6,7,8-HpCDD	6.81e+06	1.05 y	44:08	0.90	1270					63.3	
13C-OCDD	8.96e+06	0.97 y	49:42	0.67	2250					56.1	
13C-2,3,7,8-TCDF	2.76e+07	0.79 y	26:33	0.88	1610					80.6	
13C-1,2,3,7,8-PeCDF	2.18e+07	1.59 y	31:26	0.88	1280					63.8	
13C-2,3,4,7,8-PeCDF	2.06e+07	1.61 y	32:44	0.85	1250					62.3	
13C-1,2,3,4,7,8-HxCDF	1.46e+07	0.47 y	37:08	1.72	1420					71.0	
13C-1,2,3,6,7,8-HxCDF	1.64e+07	0.48 y	37:20	2.00	1360					68.2	
13C-2,3,4,6,7,8-HxCDF	1.48e+07	0.48 y	38:16	1.74	1420					71.0	
13C-1,2,3,7,8,9-HxCDF	1.19e+07	0.48 y	39:42	1.51	1330					66.3	
13C-1,2,3,4,6,7,8-HpCDF	7.80e+06	0.49 y	42:14	1.10	1190					59.3	
13C-1,2,3,4,7,8,9-HpCDF	5.88e+06	0.49 y	45:03	0.85	1160					58.0	
13C-OCDF	1.41e+07	0.88 y	50:04	1.17	2010					50.1	
37Cl-2,3,7,8-TCDD	8.00e+06		27:20	0.97	748					93.5	
13C-1,2,3,4-TCDD	2.20e+07	0.75 y	26:45	-	84.0						
13C-1,2,3,4-TCDF	3.90e+07	0.79 y	25:29	-	84.4						
13C-1,2,3,7,8,9-HxCDD	1.20e+07	1.32 y	39:08	-	58.4						
Total Tetra-Dioxins	*		NotFnd	1.02	*		2.50	267	347	0.781	0
Total Penta-Dioxins	*		NotFnd	0.96	*		2.50	556	271	1.48	0
Total Hexa-Dioxins	*		NotFnd	1.36	*		2.50	451	414	2.03	0
Total Hepta-Dioxins	*		NotFnd	1.17	*		2.50	434	302	2.63	0
Total Tetra-Furans	*		NotFnd	1.29	*		2.50	456	615	0.637	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.90	*		2.50	476	535	1.34	PeCDF 0
Total Penta-Furans	*		NotFnd	0.90	*		2.50	476	535	1.34	0.00 0
Total Hexa-Furans	*		NotFnd	0.99	*		2.50	483	386	1.92	0
Total Hepta-Furans	*		NotFnd	1.47	*		2.50	287	523	2.53	0

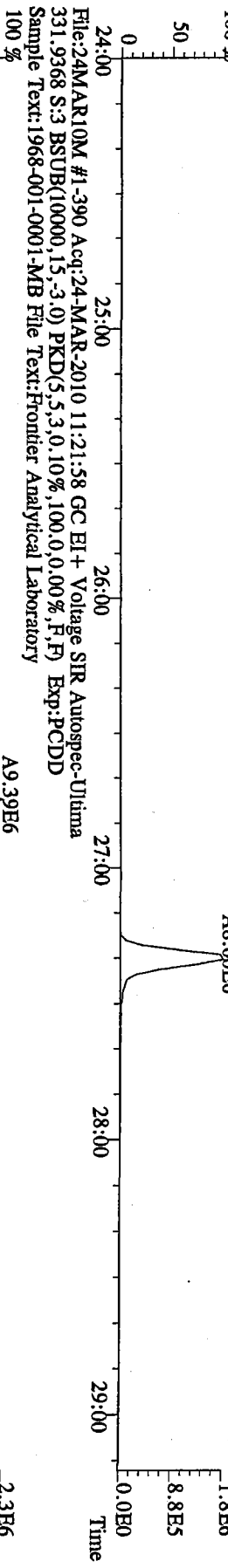
Analyst: 

Date: 3/24/10

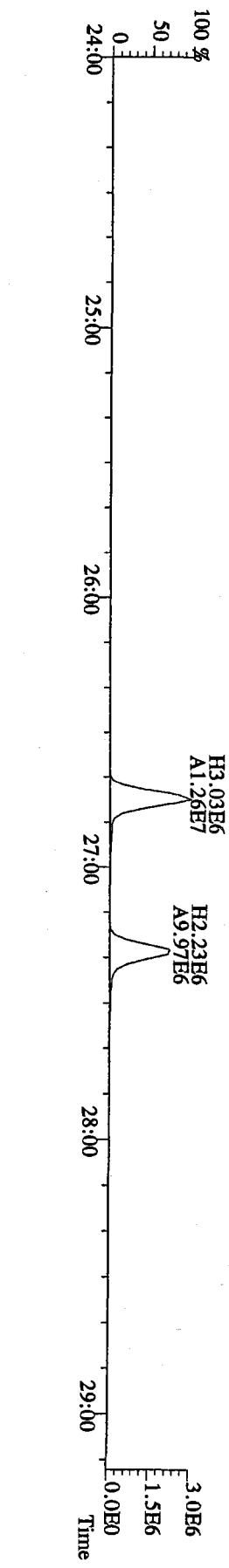
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 319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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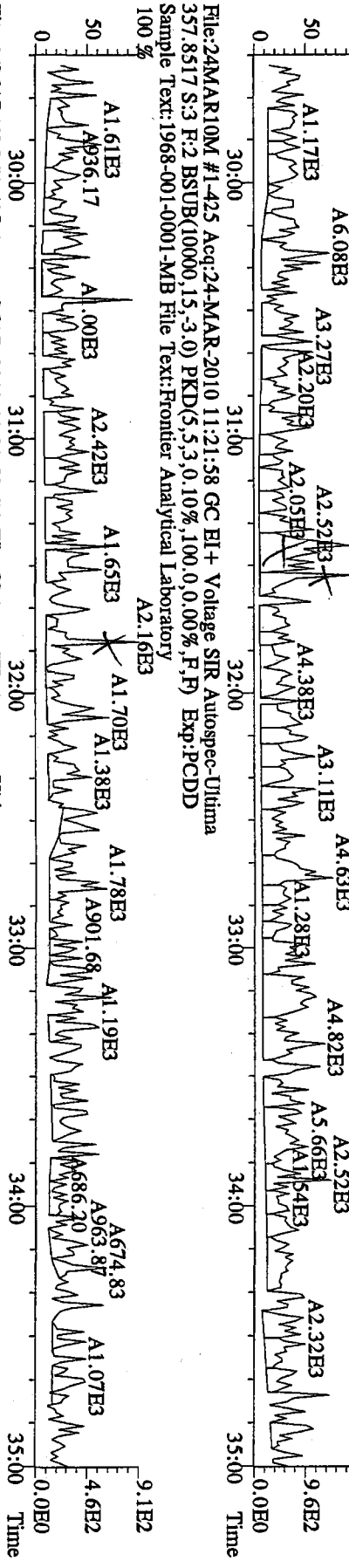
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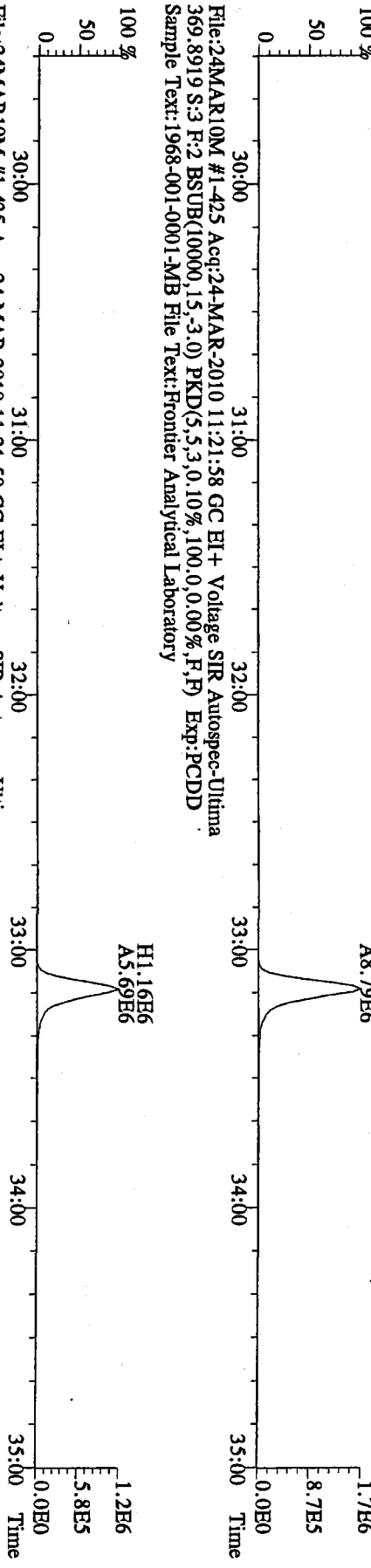
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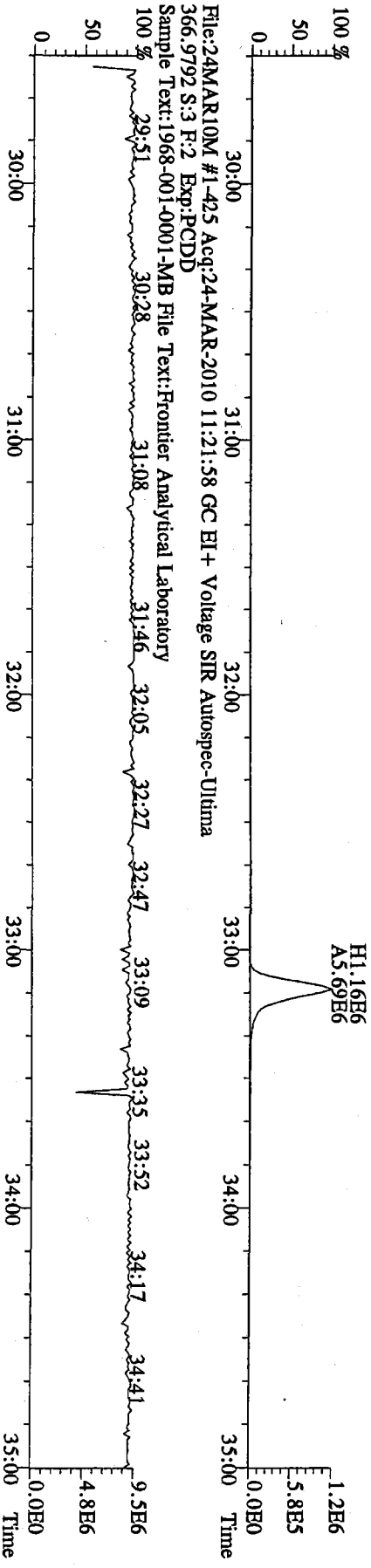
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 355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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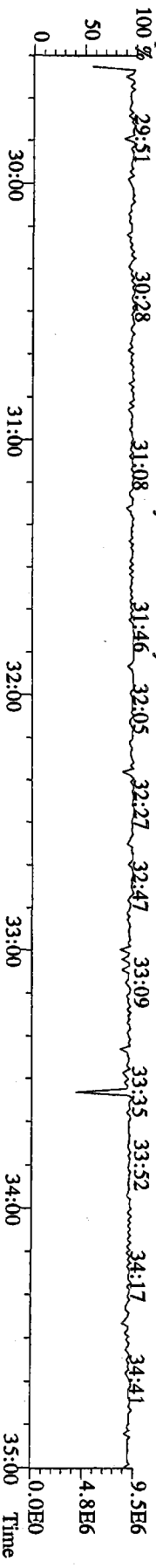
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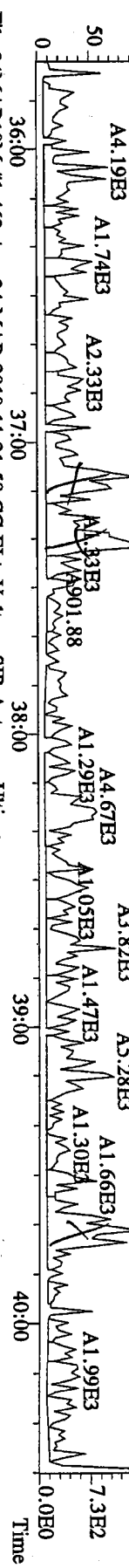
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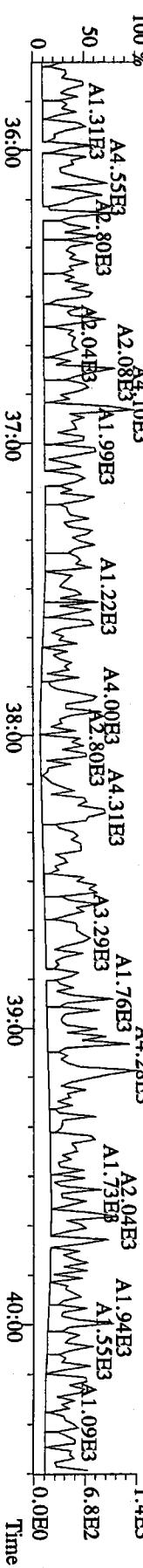
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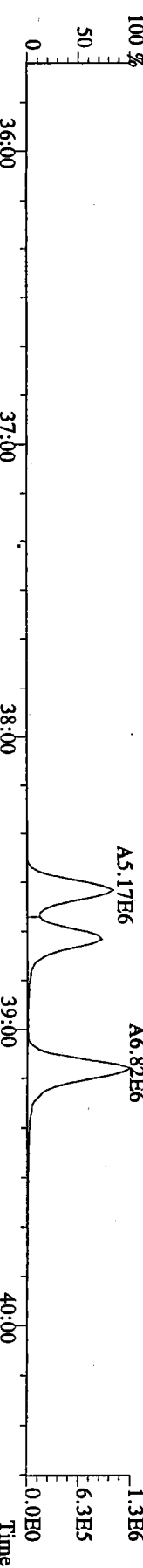
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 389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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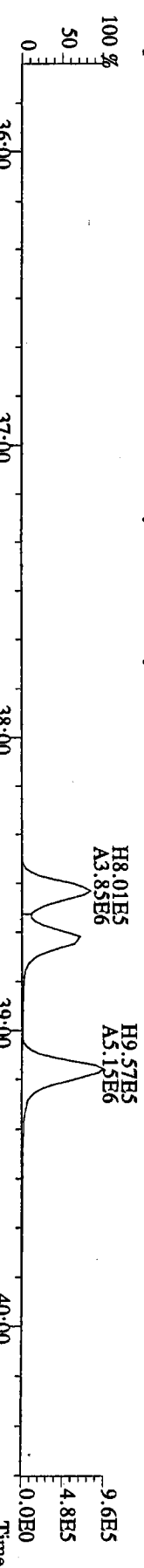
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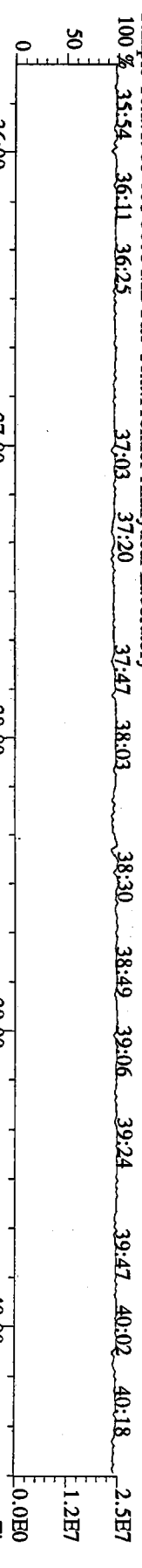
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 401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



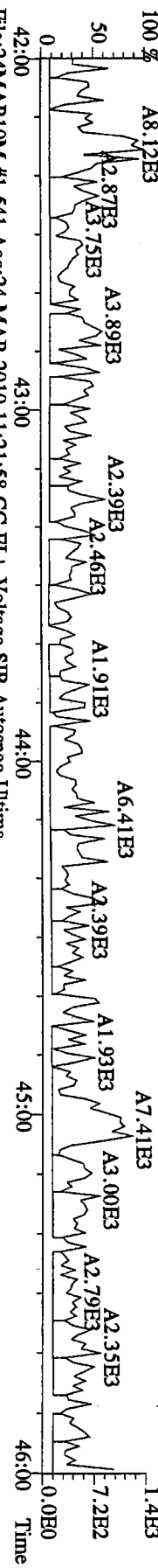
File:24MARIOM #1-463 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



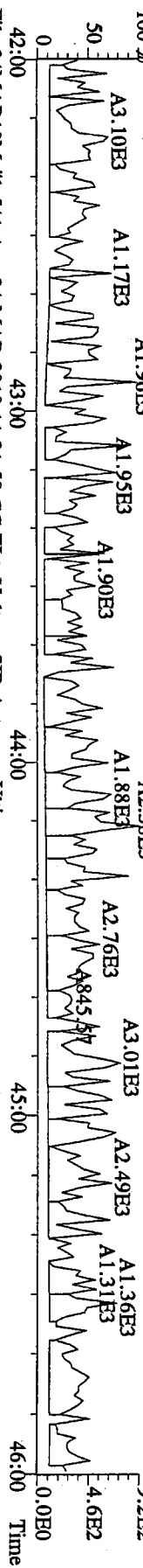
File:24MARIOM #1-463 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:3 F:3 Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



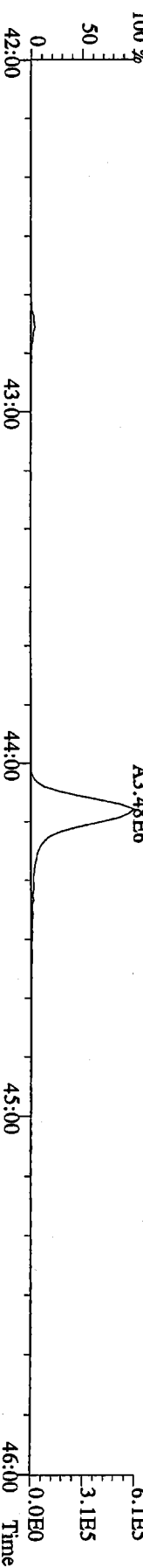
File:24MARIOM #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



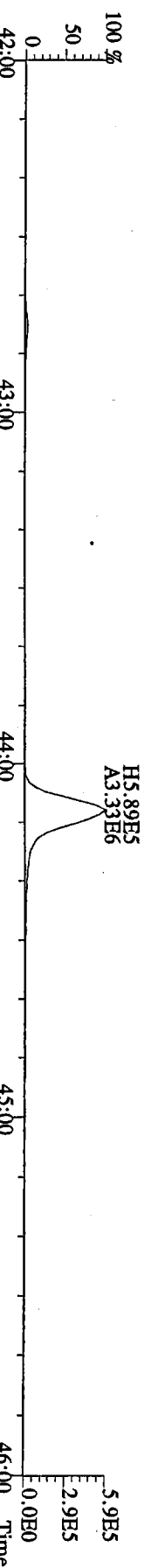
File:24MARIOM #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



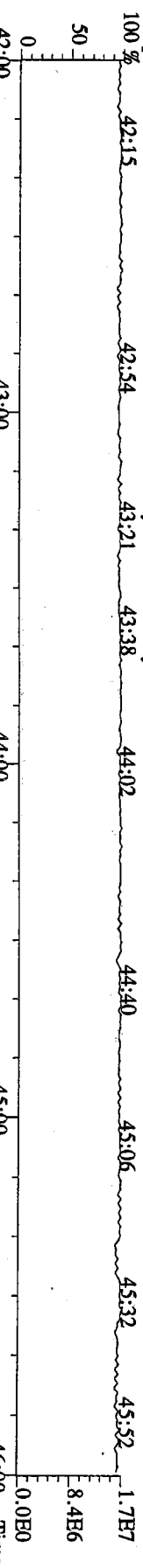
File:24MARIOM #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



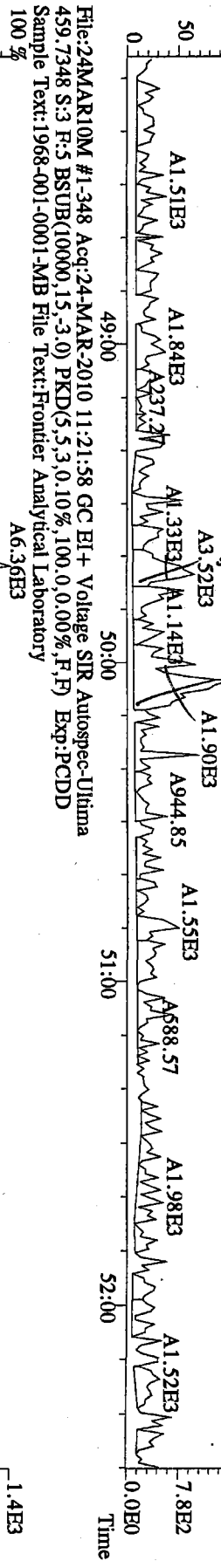
File:24MARIOM #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 430.9728 S:3 F:4 Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



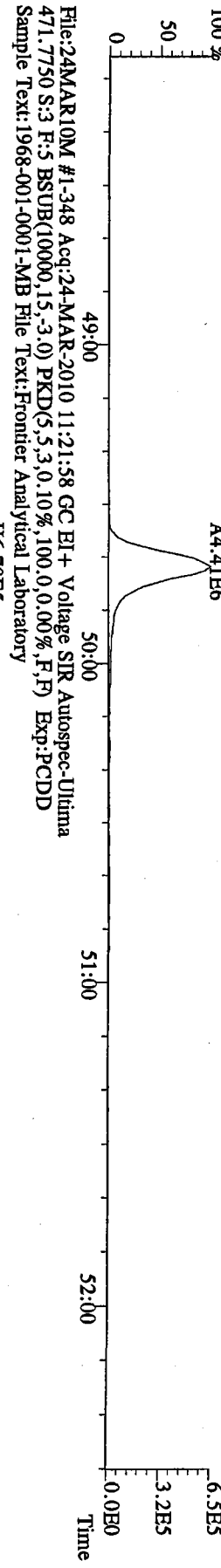
File:24MARIOM #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 421.15 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 430.9728 S:3 F:4 Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



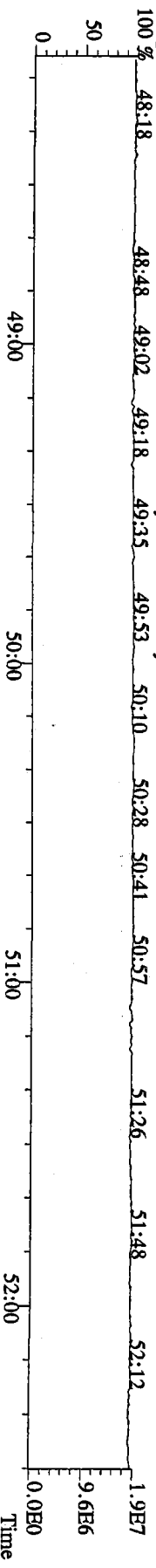
File:24MAR10M #1-348 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



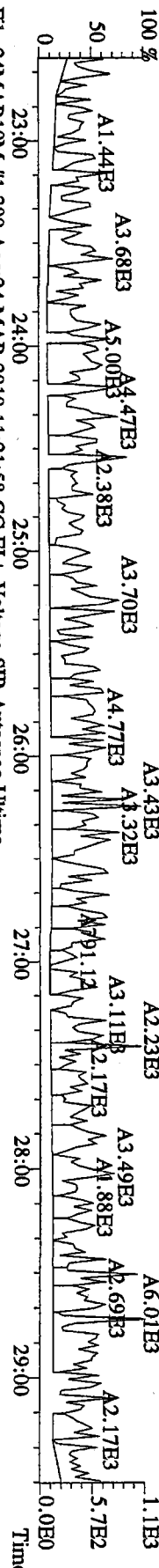
File:24MAR10M #1-348 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



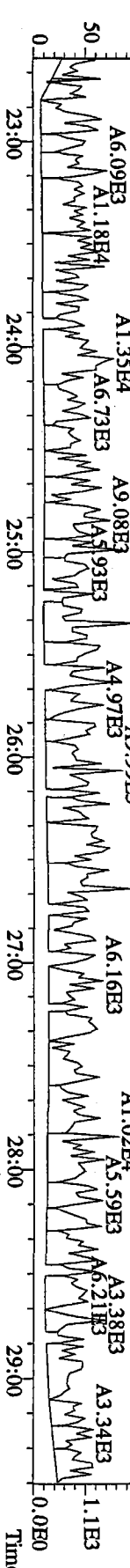
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 471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



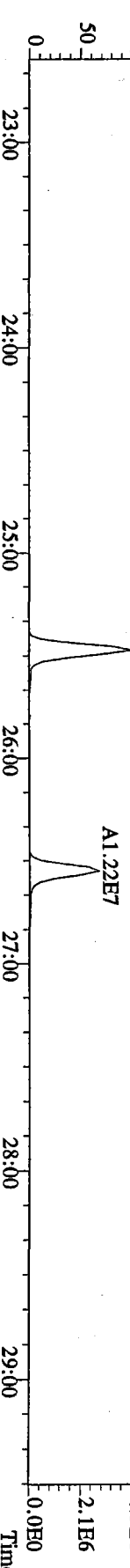
File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



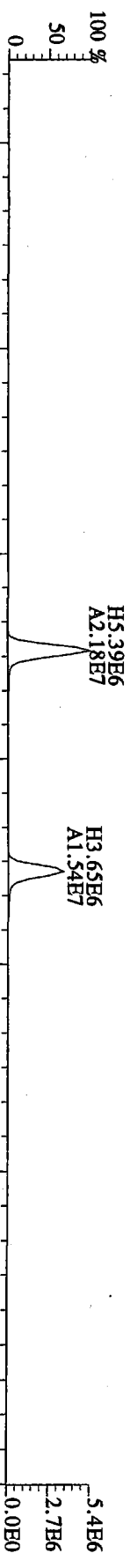
File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



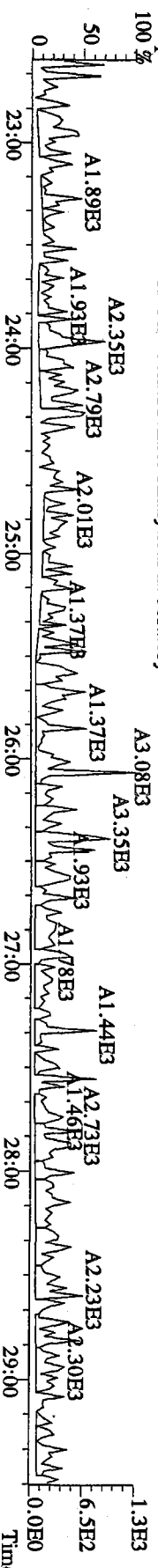
File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



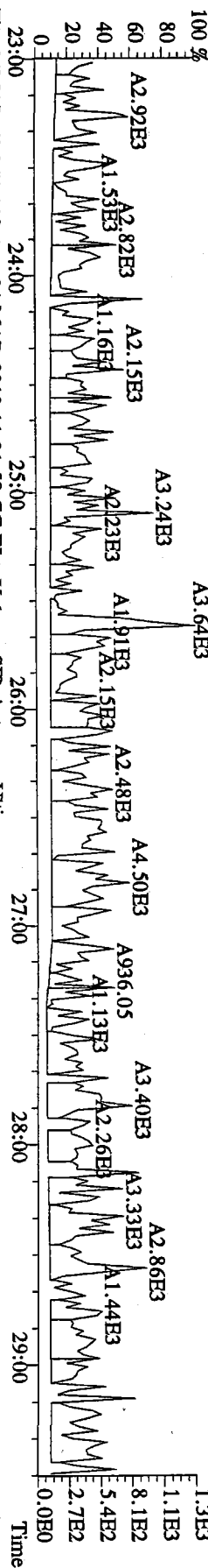
File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



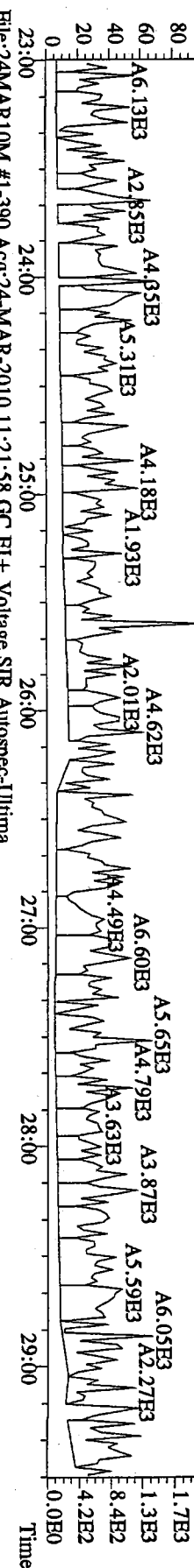
File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



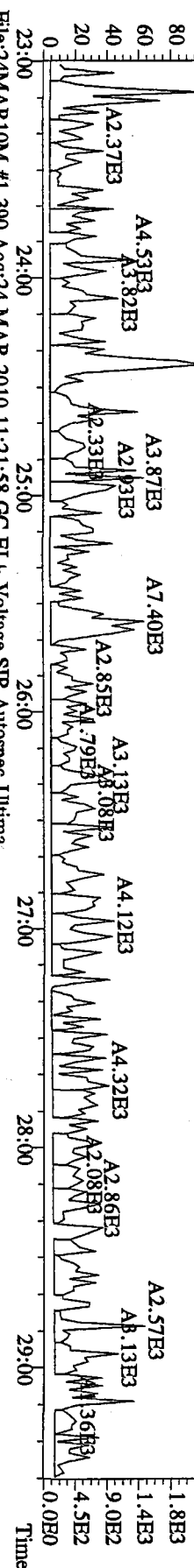
File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



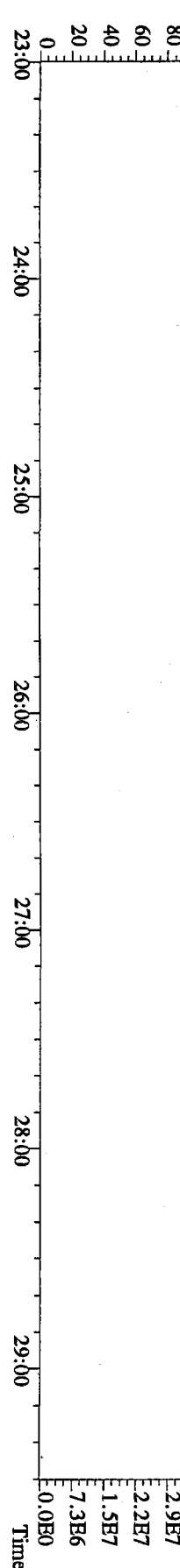
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 341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 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:1968-001-0001-MB File Text:Frontier Analytical Laboratory

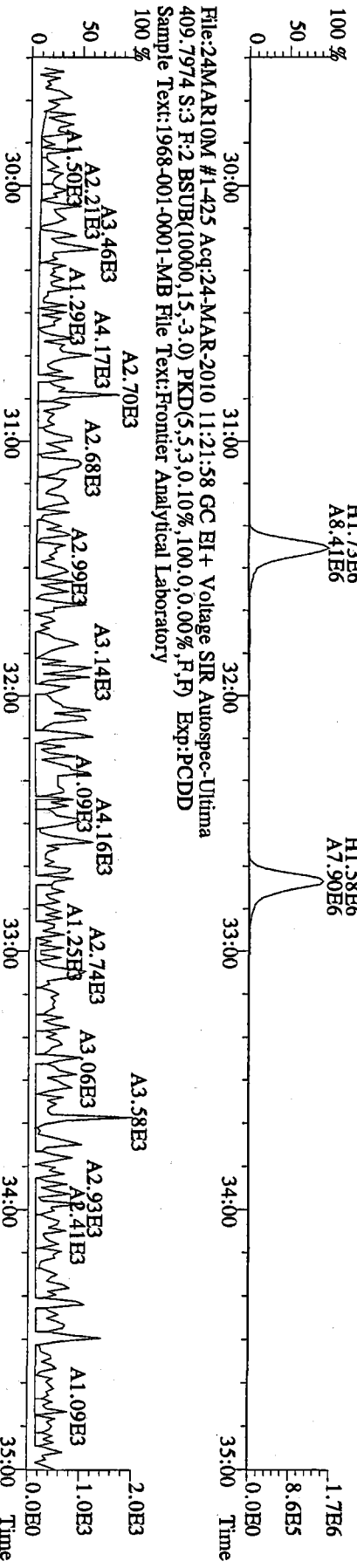
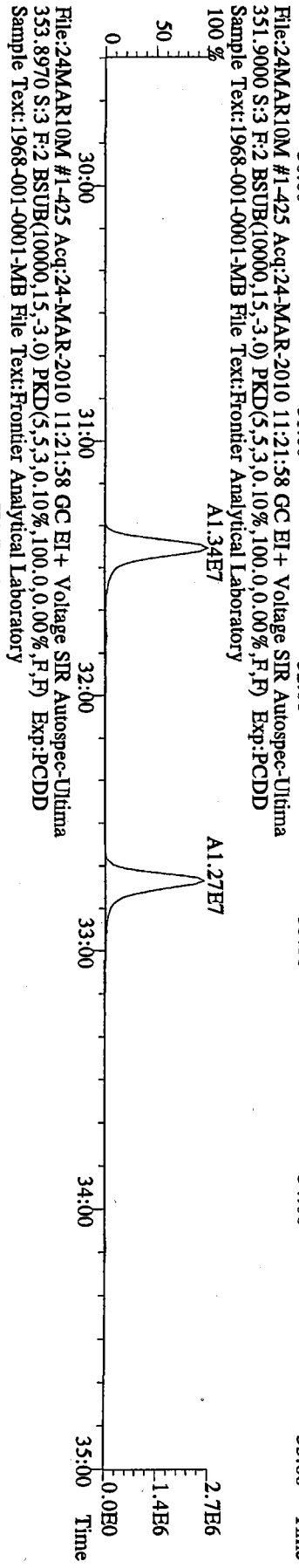
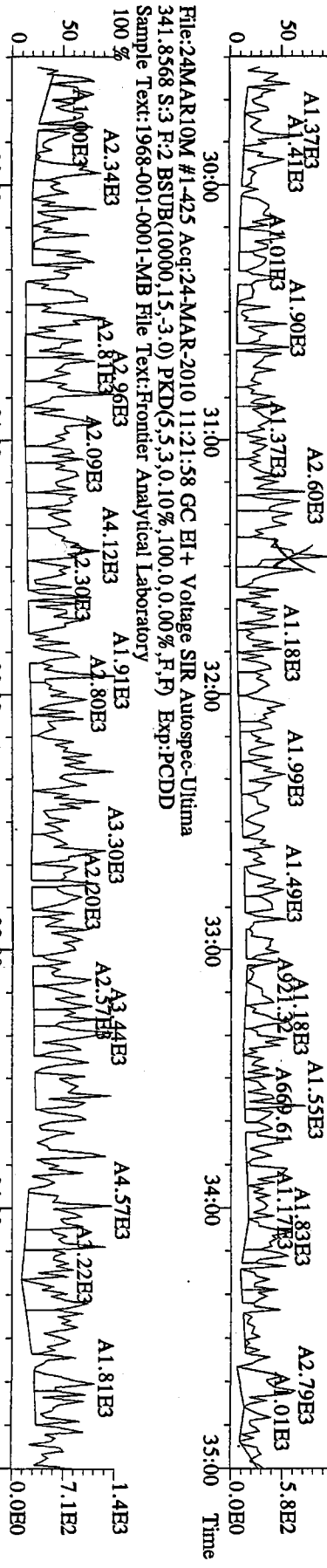


File:24MAR10M #1-390 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:3 Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory

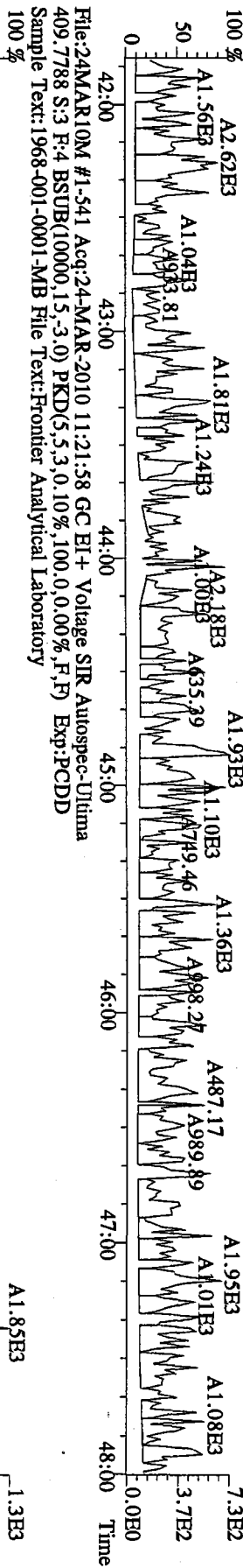


1999080513

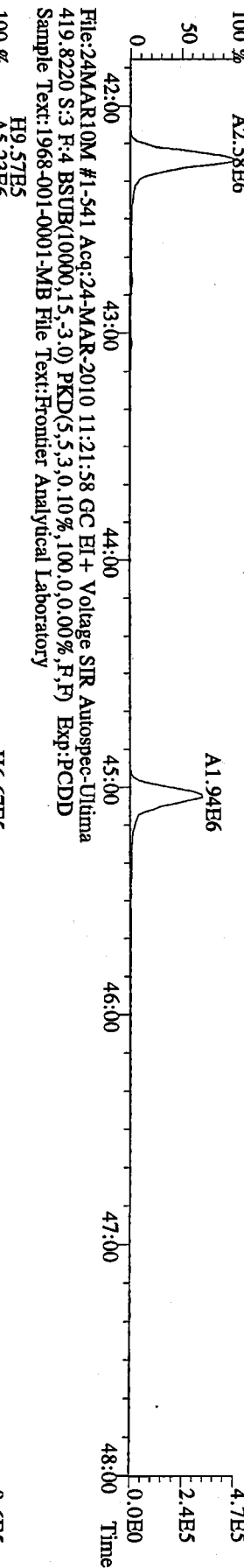
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 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



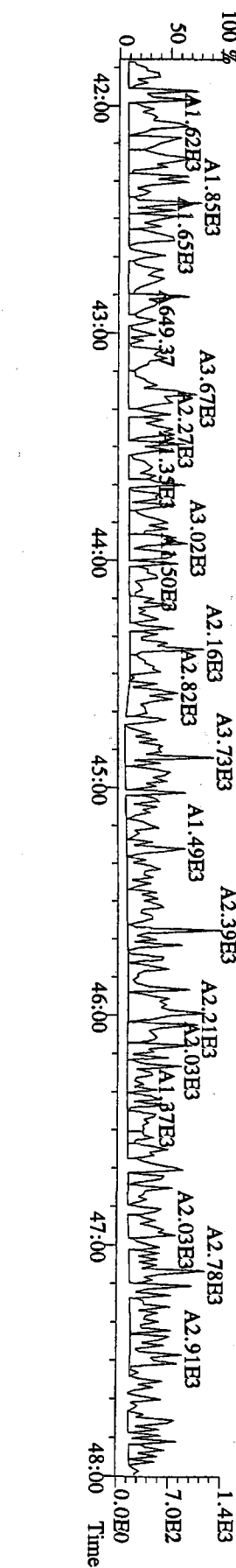
File:24MAR10M #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



File:24MAR10M #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



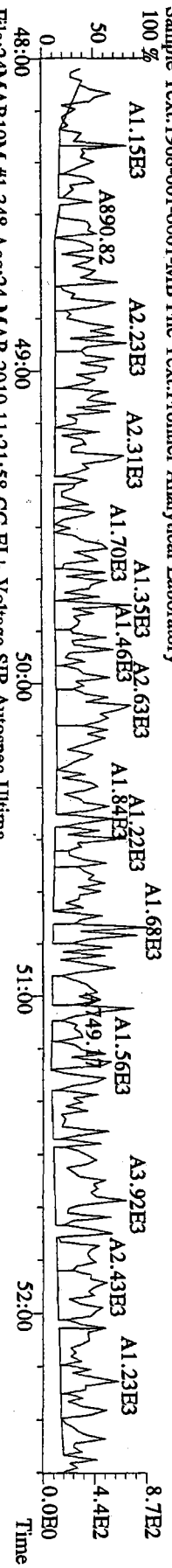
File:24MAR10M #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



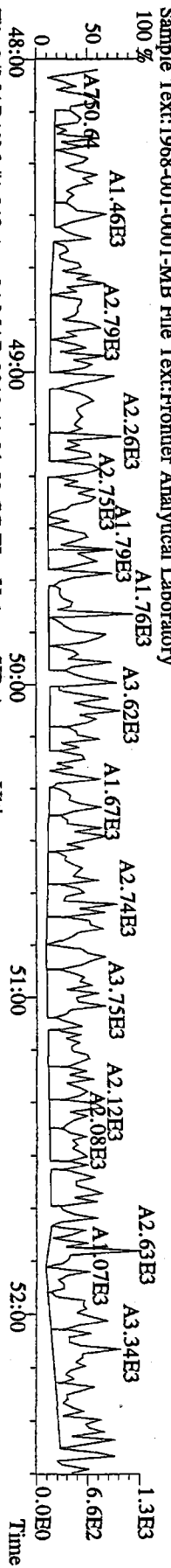
File:24MAR10M #1-541 Acq:24-MAR-2010 11:21:58 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



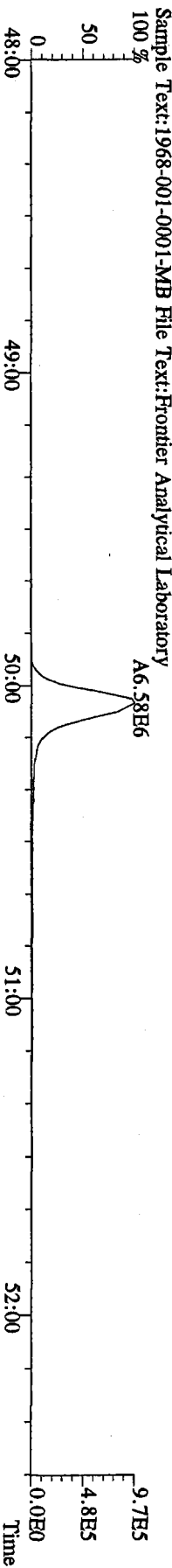
File:24MAR10M #1-348 Acq:24-MAR-2010 11:21:58 GC EI + Voltage SIR Autospec-Ultima
 441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



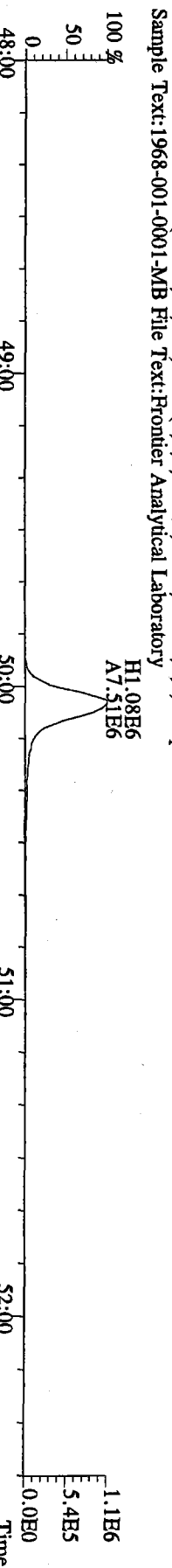
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 443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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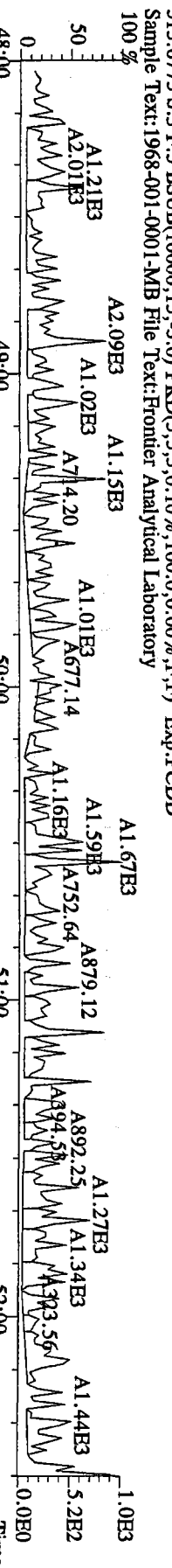
File:24MAR10M #1-348 Acq:24-MAR-2010 11:21:58 GC EI + Voltage SIR Autospec-Ultima
 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



File:24MAR10M #1-348 Acq:24-MAR-2010 11:21:58 GC EI + Voltage SIR Autospec-Ultima
 455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



File:24MAR10M #1-348 Acq:24-MAR-2010 11:21:58 GC EI + Voltage SIR Autospec-Ultima
 513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-MB File Text:Frontier Analytical Laboratory



1968-001-0061-OPR

USEPA - ITD


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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 24MAR10M Sam:2
Ext. Date: 3/22/10 Shift: Day Analysis Date: 24-MAR-10 10:26:40

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	10.6	6.70 - 15.8 ✓
1,2,3,7,8-PeCDD	50	49.1	35.0 - 71.0 ✓
1,2,3,4,7,8-HxCDD	50	50.4	35.0 - 82.0 ✓
1,2,3,6,7,8-HxCDD	50	48.5	38.0 - 67.0 ✓
1,2,3,7,8,9-HxCDD	50	46.7	32.0 - 81.0 ✓
1,2,3,4,6,7,8-HpCDD	50	49.4	35.0 - 70.0 ✓
OCDD	100	98.8	78.0 - 144 ✓
2,3,7,8-TCDF	10	9.76	7.50 - 15.8 ✓
1,2,3,7,8-PeCDF	50	49.3	40.0 - 67.0 ✓
2,3,4,7,8-PeCDF	50	49.3	34.0 - 80.0 ✓
1,2,3,4,7,8-HxCDF	50	50.3	36.0 - 67.0 ✓
1,2,3,6,7,8-HxCDF	50	50.7	42.0 - 65.0 ✓
2,3,4,6,7,8-HxCDF	50	49.8	35.0 - 78.0 ✓
1,2,3,7,8,9-HxCDF	50	48.8	39.0 - 65.0 ✓
1,2,3,4,6,7,8-HpCDF	50	49.0	41.0 - 61.0 ✓
1,2,3,4,7,8,9-HpCDF	50	48.6	39.0 - 69.0 ✓
OCDF	100	95.7	63.0 - 170 ✓

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

Analyst: 

Date: 3/24/10

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 24MAR10M Sam:2

Ext. Date: 3/22/10 Shift: Day Analysis Date: 24-MAR-10 10:26:40

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	86.2	20.0 - 175 ✓
13C-1,2,3,7,8-PeCDD	100	64.8	21.0 - 227 ✓
13C-1,2,3,4,7,8-HxCDD	100	73.4	21.0 - 193 ✓
13C-1,2,3,6,7,8-HxCDD	100	73.4	25.0 - 163 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	59.2	26.0 - 166 ✓
13C-OCDD	200	111	26.0 - 397 ✓
13C-2,3,7,8-TCDF	100	85.3	22.0 - 152 ✓
13C-1,2,3,7,8-PeCDF	100	62.7	21.0 - 192 ✓
13C-2,3,4,7,8-PeCDF	100	63.1	13.0 - 328 ✓
13C-1,2,3,4,7,8-HxCDF	100	68.0	19.0 - 202 ✓
13C-1,2,3,6,7,8-HxCDF	100	65.8	21.0 - 159 ✓
13C-2,3,4,6,7,8-HxCDF	100	70.5	22.0 - 176 ✓
13C-1,2,3,7,8,9-HxCDF	100	64.1	17.0 - 205 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	56.6	21.0 - 158 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	54.0	20.0 - 186 ✓
13C-OCDF	200	100	26.0 - 397 ✓
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	40.8	12.4 - 76.4 ✓

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

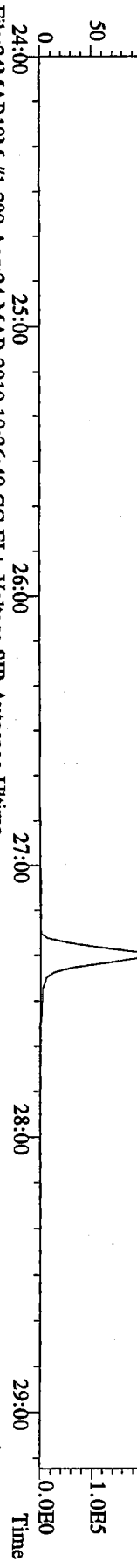
Analyst: Date: 3/24/10

FAL ID: 1968-001-0001-OPR Filename: 24MAR10M Sam:2 Acquired: 24-MAR-10 10:26:40 ICal: pcddfal3-11-18-09
 Client ID: OPR ConCal: ST032410M1 EndCal: ST032410M2
 Results: 1968 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 99.4

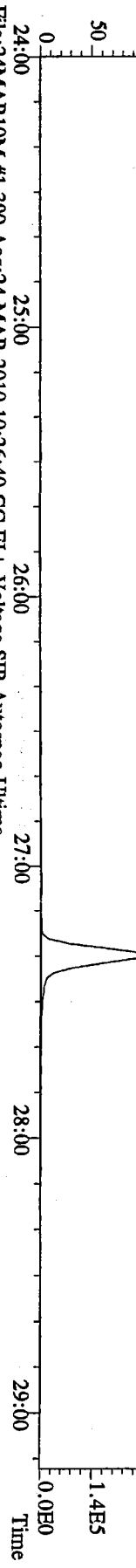
Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		113 DL	
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	2.14e+06	0.79 y	27:20	1.02	10.6	2.50	-	-	*	
1,2,3,7,8-PeCDD	7.64e+06	1.50 y	33:10	0.96	49.1	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	6.51e+06	1.27 y	38:33	1.37	50.4	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	5.83e+06	1.27 y	38:43	1.34	48.5	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	5.86e+06	1.27 y	39:09	1.37	46.7	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	4.00e+06	0.92 y	44:09	1.17	49.4	2.50	-	-	*	
OCDD	5.81e+06	0.90 y	49:43	1.21	98.8	2.50	-	-	*	
2,3,7,8-TCDF	4.04e+06	0.67 y	26:34	1.29	9.76	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.04e+07	1.57 y	31:26	0.89	49.3	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.03e+07	1.59 y	32:45	0.91	49.3	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	7.64e+06	1.25 y	37:09	1.00	50.3	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	7.98e+06	1.24 y	37:21	0.92	50.7	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	7.82e+06	1.24 y	38:17	0.99	49.8	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	6.68e+06	1.22 y	39:43	1.09	48.8	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	5.40e+06	1.03 y	42:15	1.36	49.0	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	4.65e+06	1.04 y	45:03	1.61	48.6	2.50	-	-	*	
OCDF	6.17e+06	0.89 y	50:04	0.84	95.7	2.50	-	-	*	
									Rec	
13C-2,3,7,8-TCDD	1.99e+07	0.73 y	27:18	0.94	86.2				86.2	
13C-1,2,3,7,8-PeCDD	1.62e+07	1.55 y	33:09	1.02	64.8				64.8	
13C-1,2,3,4,7,8-HxCDD	9.40e+06	1.32 y	38:32	0.98	73.4				73.4	
13C-1,2,3,6,7,8-HxCDD	8.95e+06	1.27 y	38:41	0.94	73.4				73.4	
13C-1,2,3,4,6,7,8-HpCDD	6.94e+06	1.04 y	44:07	0.90	59.2				59.2	
13C-OCDD	9.67e+06	0.95 y	49:41	0.67	111				55.7	
13C-2,3,7,8-TCDF	3.22e+07	0.80 y	26:33	0.88	85.3				85.3	
13C-1,2,3,7,8-PeCDF	2.36e+07	1.58 y	31:26	0.88	62.7				62.7	
13C-2,3,4,7,8-PeCDF	2.30e+07	1.59 y	32:43	0.85	63.1				63.1	
13C-1,2,3,4,7,8-HxCDF	1.52e+07	0.47 y	37:08	1.72	68.0				68.0	
13C-1,2,3,6,7,8-HxCDF	1.72e+07	0.49 y	37:20	2.00	65.8				65.8	
13C-2,3,4,6,7,8-HxCDF	1.59e+07	0.48 y	38:15	1.74	70.5				70.5	
13C-1,2,3,7,8,9-HxCDF	1.26e+07	0.49 y	39:41	1.51	64.1				64.1	
13C-1,2,3,4,6,7,8-HpCDF	8.10e+06	0.49 y	42:13	1.10	56.6				56.6	
13C-1,2,3,4,7,8,9-HpCDF	5.95e+06	0.49 y	45:02	0.85	54.0				54.0	
13C-OCDF	1.53e+07	0.89 y	50:04	1.17	100				50.1	
37Cl-2,3,7,8-TCDD	9.75e+06		27:20	0.97	40.8				102	
13C-1,2,3,4-TCDD	2.45e+07	0.74 y	26:45	-	93.8					
13C-1,2,3,4-TCDF	4.30e+07	0.79 y	25:29	-	93.0					
13C-1,2,3,7,8,9-HxCDD	1.30e+07	1.29 y	39:08	-	63.5					
						Fac Noise-1	Noise-2	DL	#Hom	
Total Tetra-Dioxins	2.30e+06		23:07	1.02	11.3	2.50	-	-	*	25
Total Penta-Dioxins	7.83e+06		31:25	0.96	50.3	2.50	-	-	*	20
Total Hexa-Dioxins	1.84e+07		37:08	1.36	147	2.50	-	-	*	16
Total Hepta-Dioxins	4.34e+06		42:13	1.17	53.7	2.50	-	-	*	32
Total Tetra-Furans	4.34e+06		23:49	1.29	10.5	2.50	-	-	*	23
1st Fn. Tot Penta-Furans	1.24e+05		22:47	0.90	0.591	2.50	-	-	*	PeCDF 31
Total Penta-Furans	2.13e+07		30:11	0.90	102	2.50	-	-	*	102 18
Total Hexa-Furans	3.03e+07		35:13	0.99	201	2.50	-	-	*	12
Total Hepta-Furans	1.04e+07		42:15	1.47	101	2.50	-	-	*	13

Analyst: [Signature] Date: 3/24/10

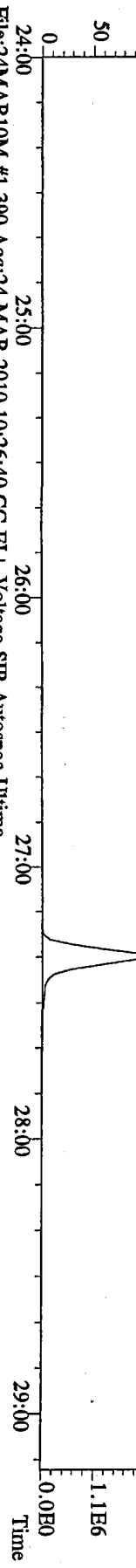
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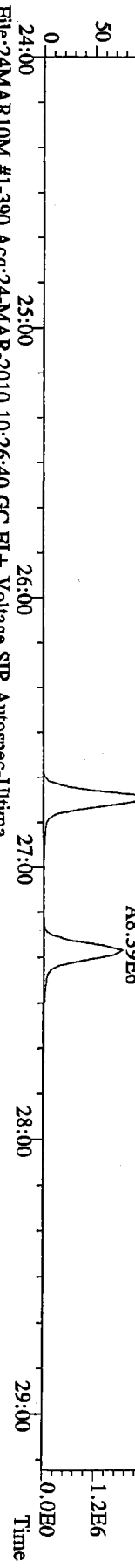
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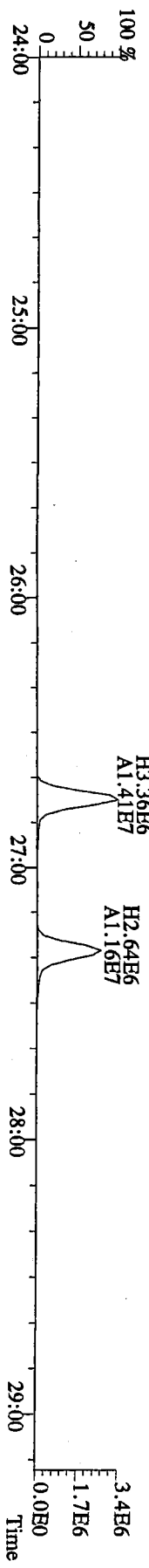
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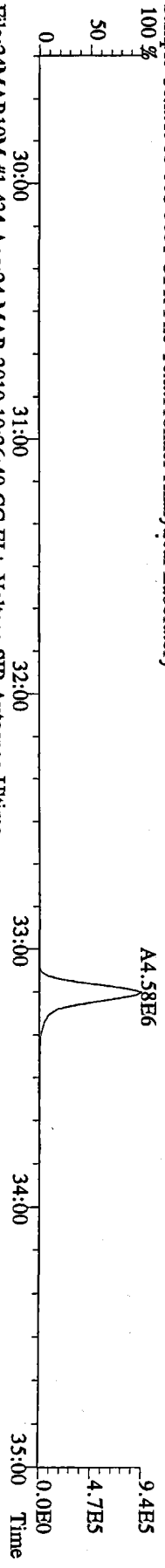
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100 %



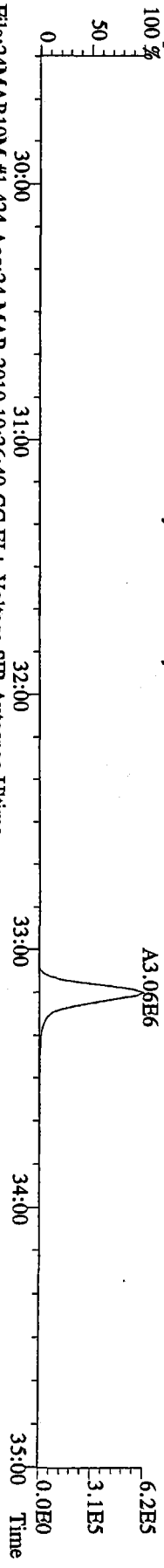
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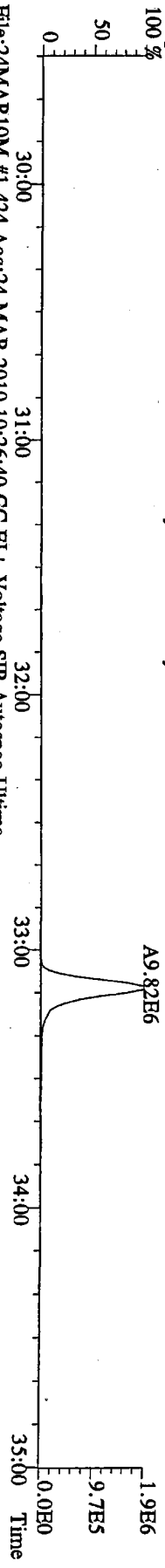
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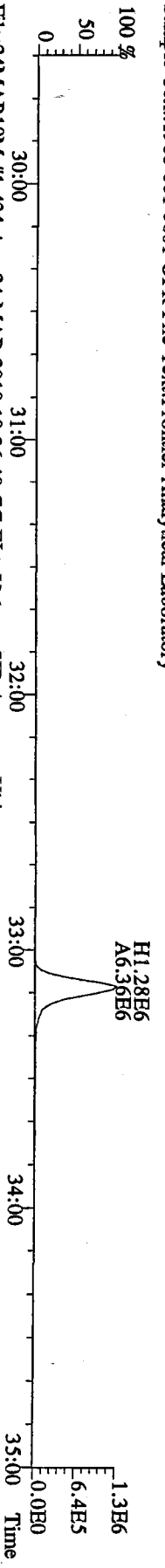
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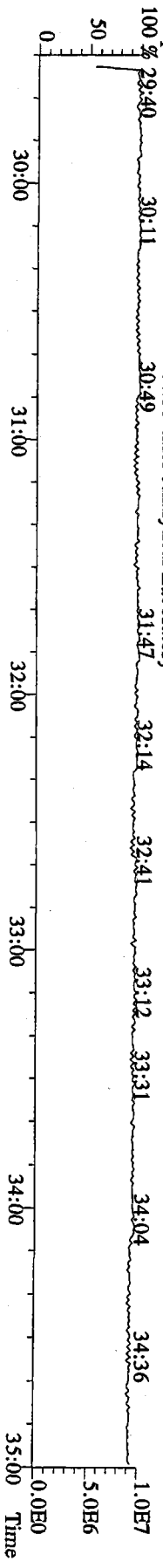
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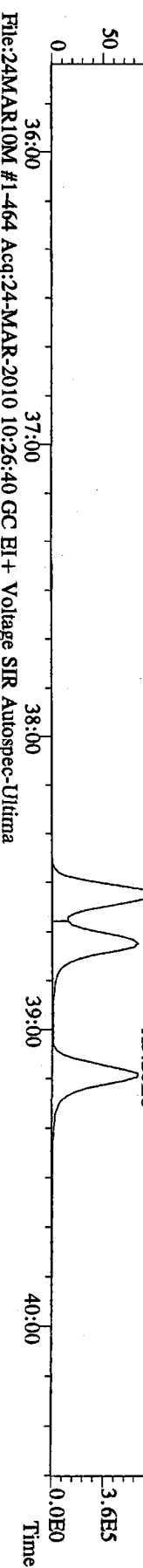
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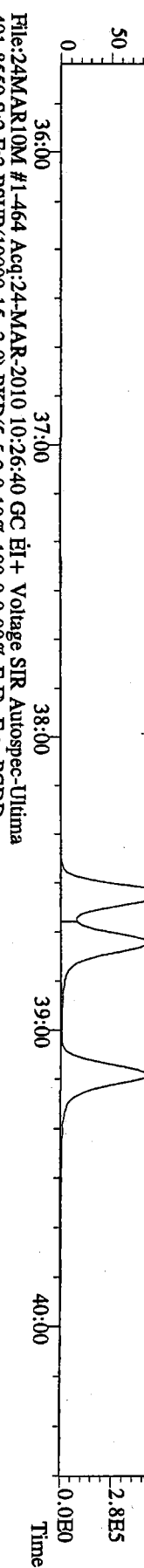
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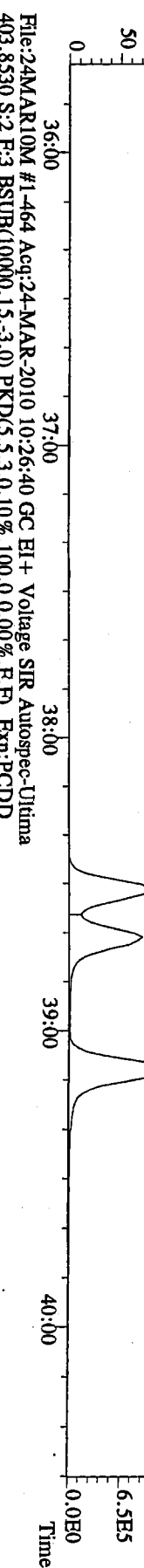
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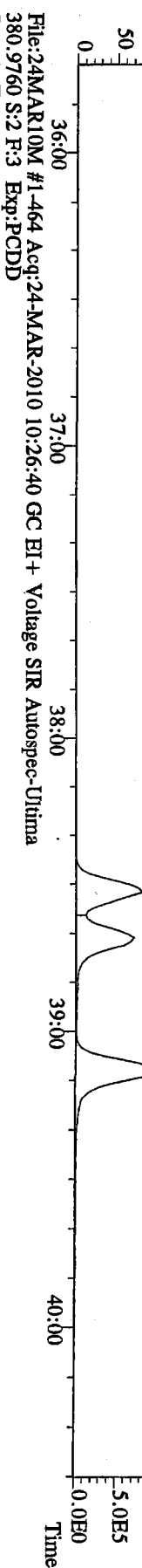
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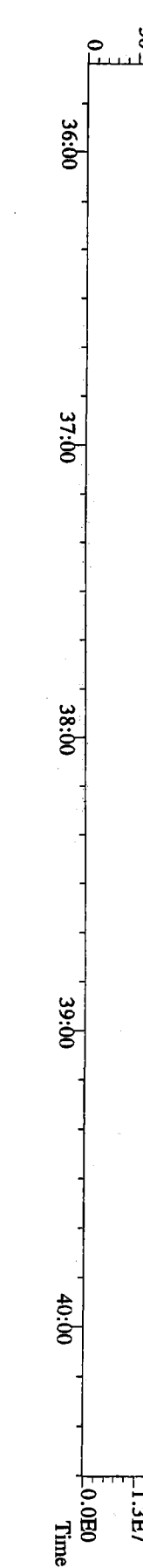
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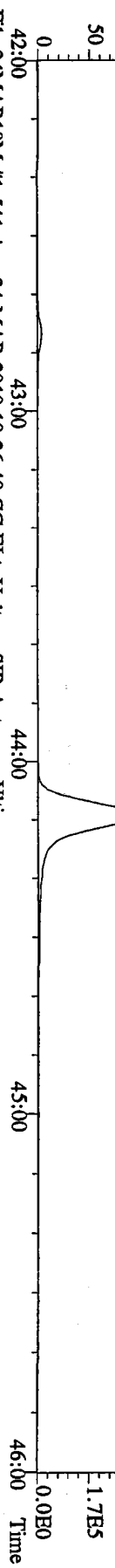
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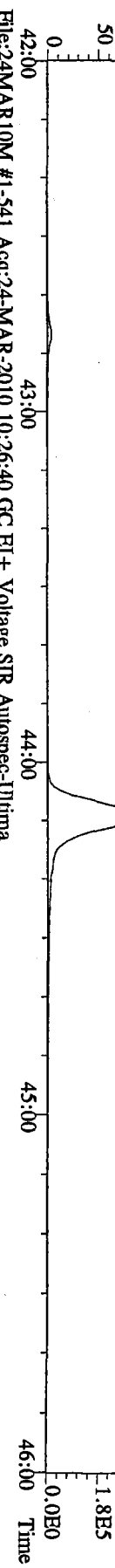
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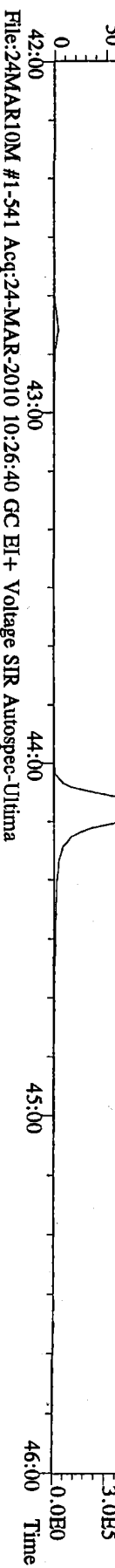
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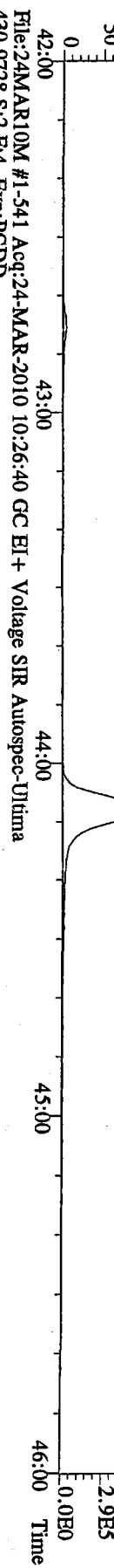
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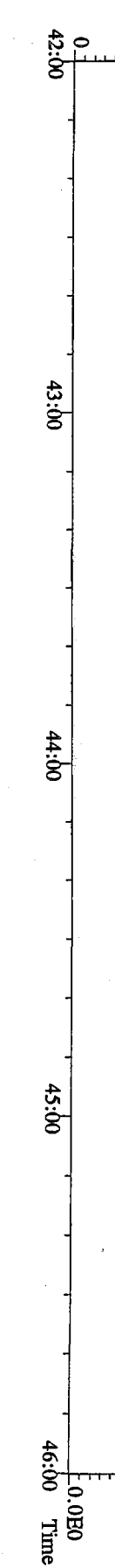
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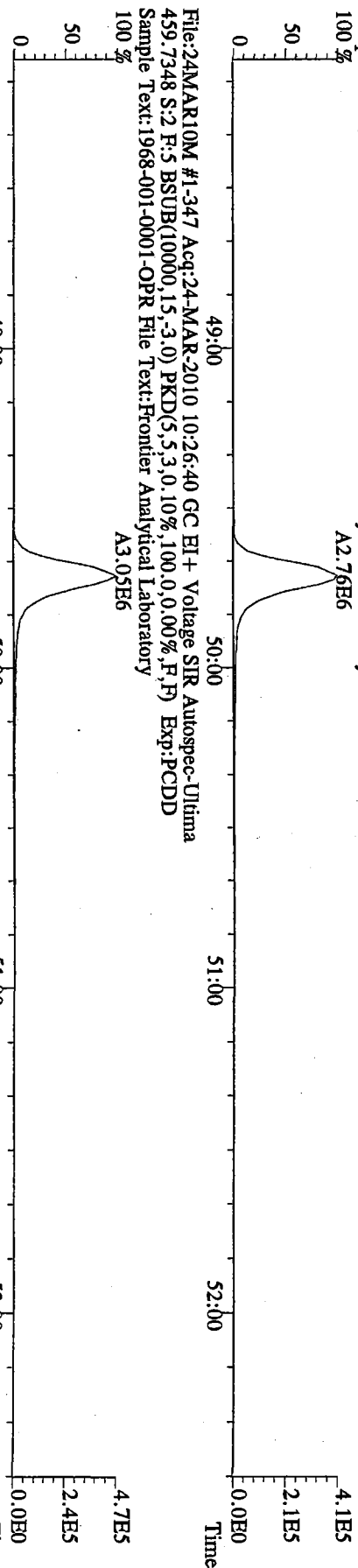
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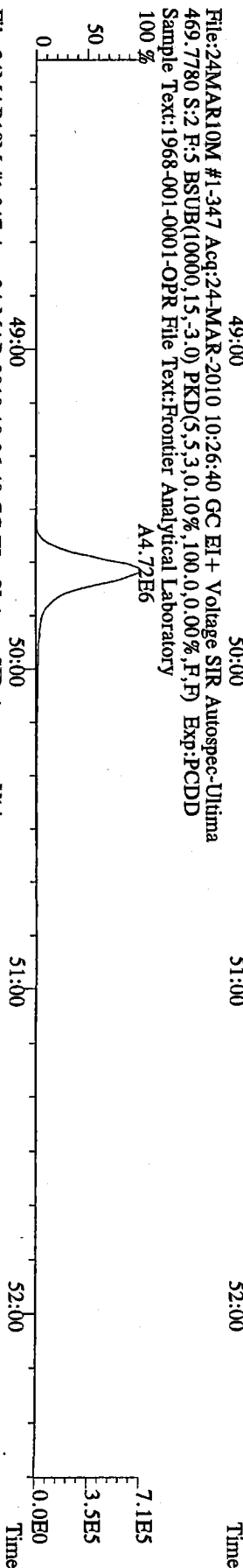
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100 %



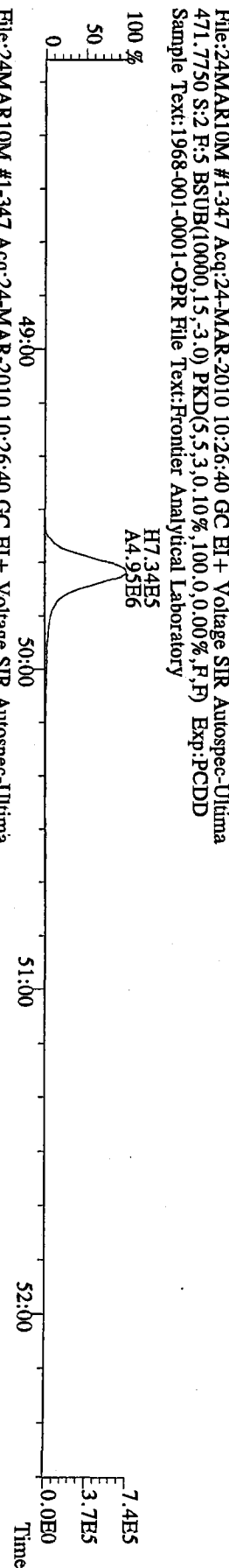
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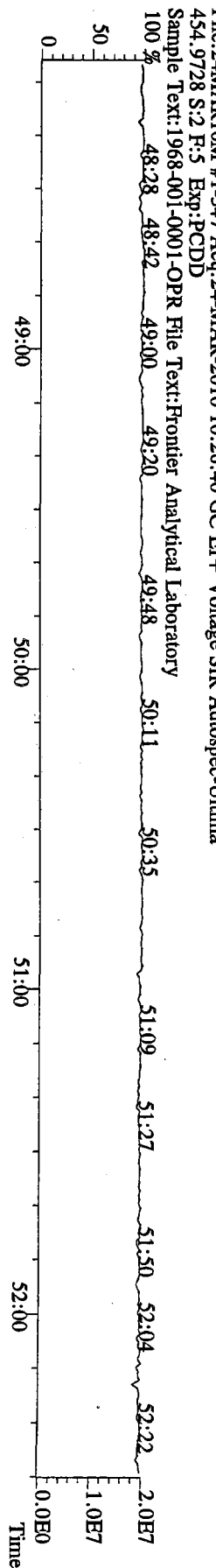
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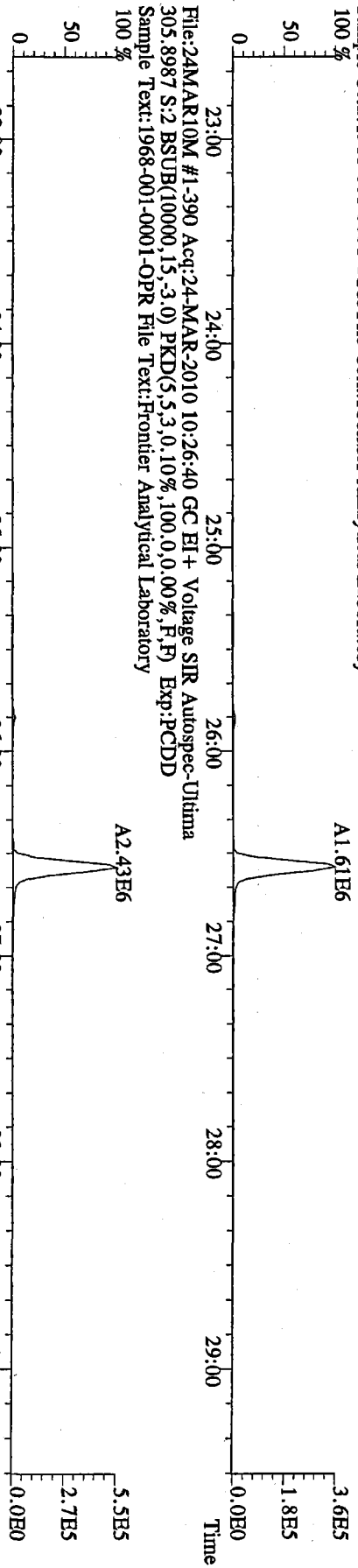
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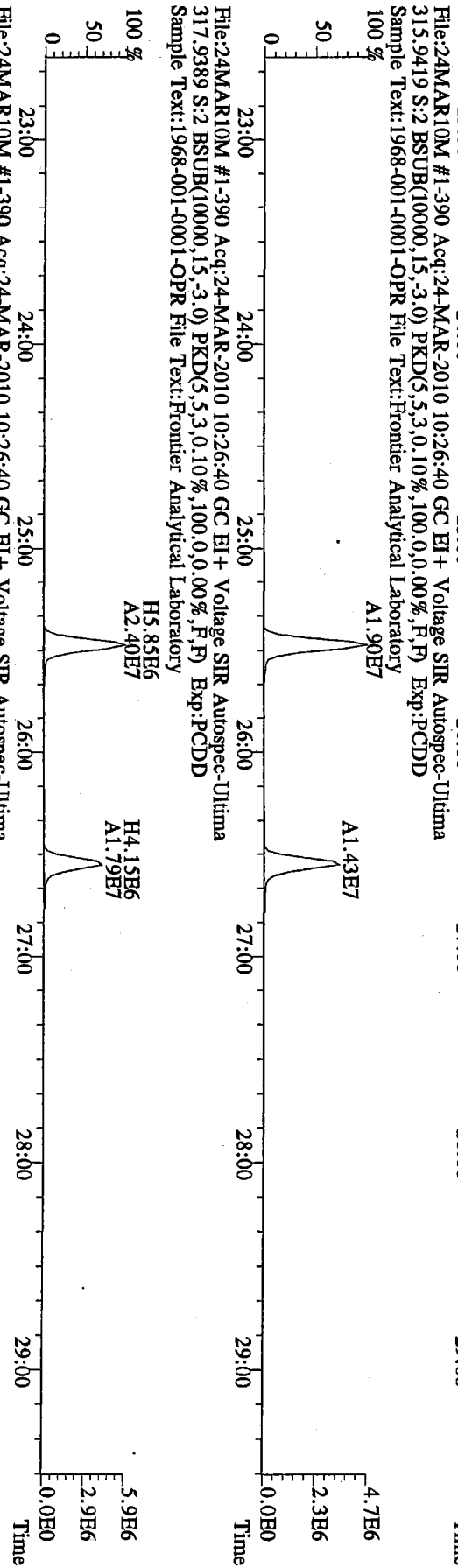
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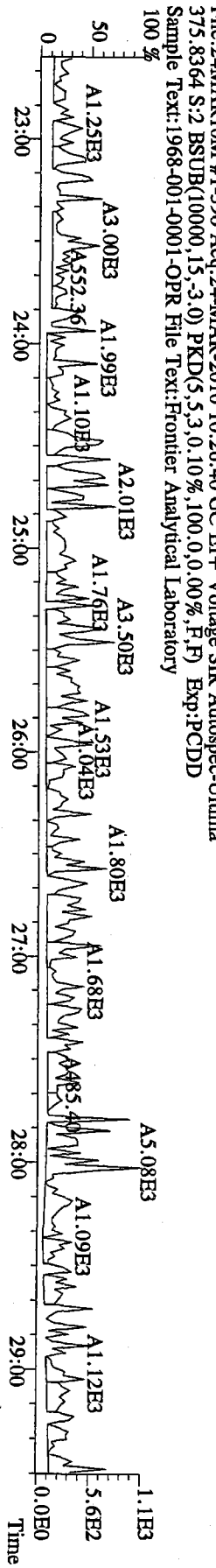
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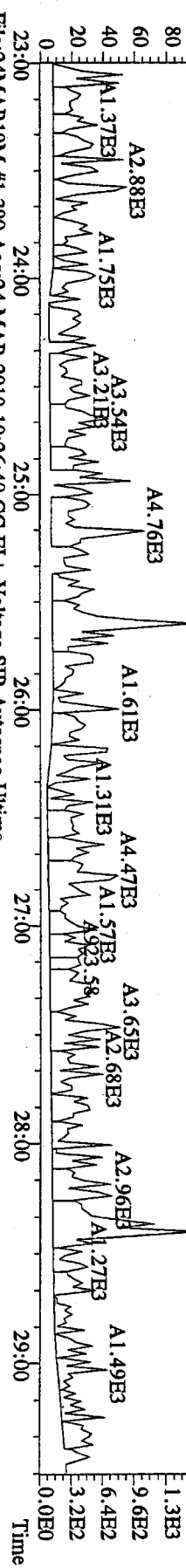


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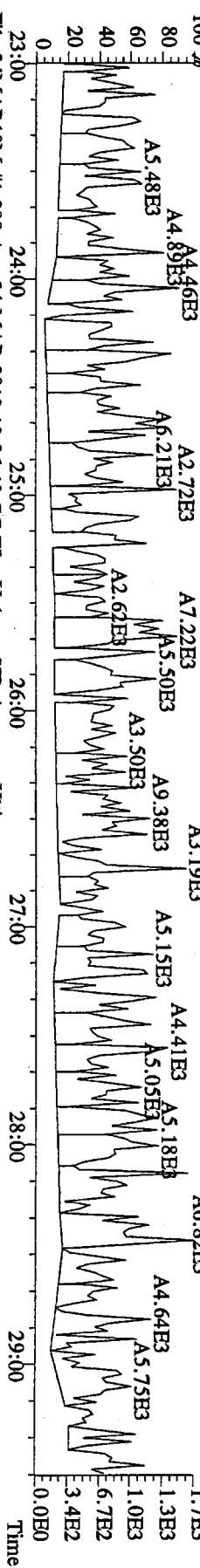


00550 : 00550

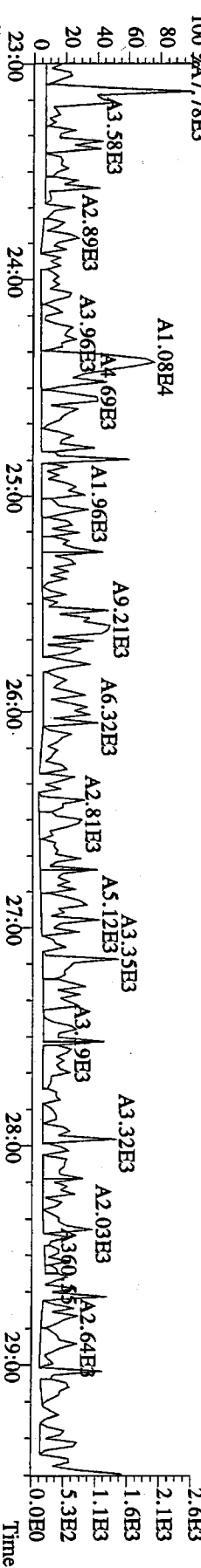
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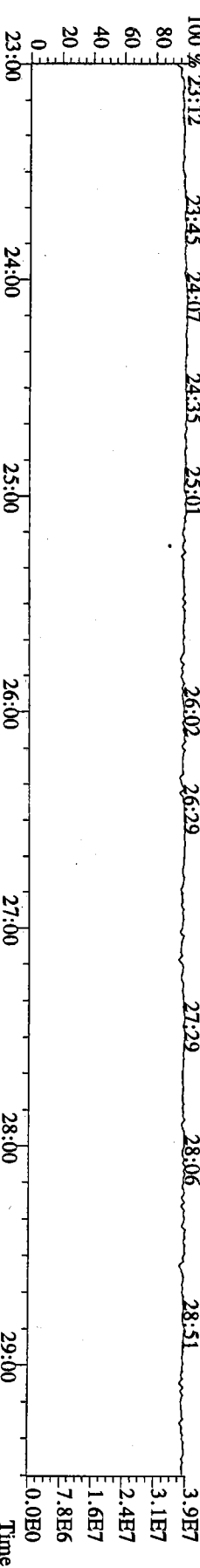
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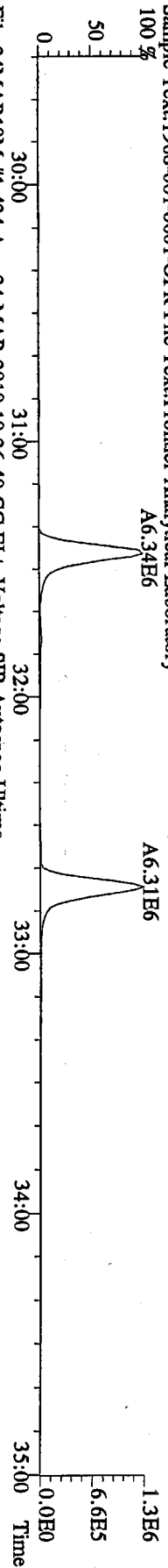
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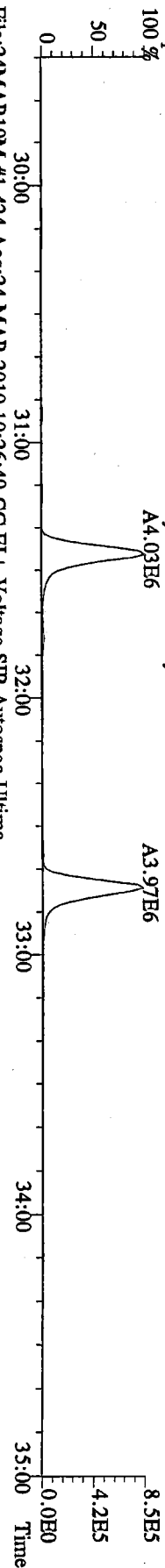
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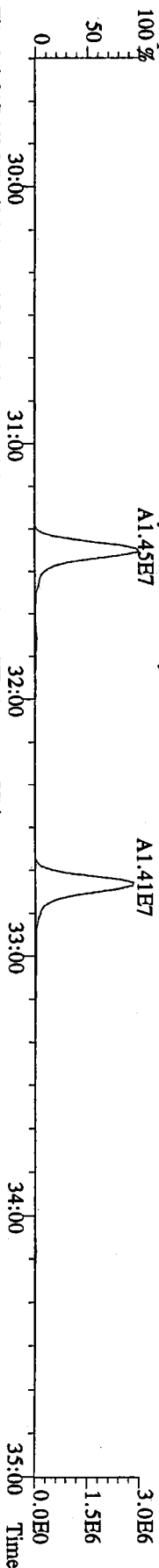
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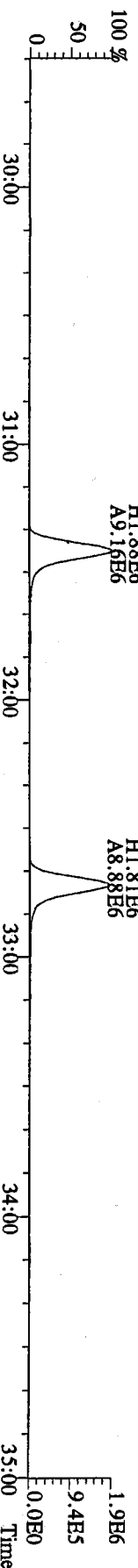
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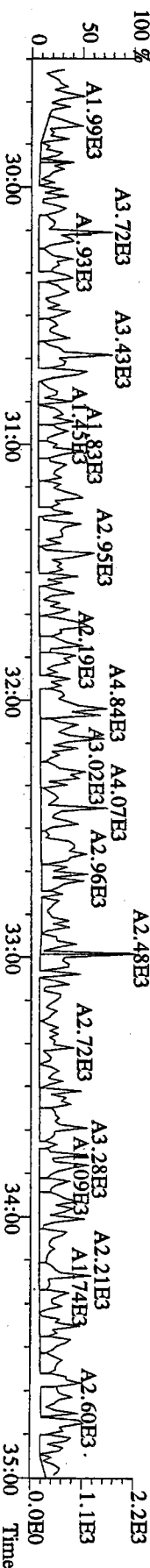
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351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



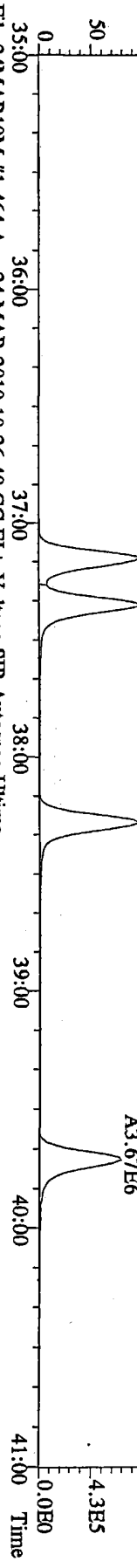
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353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



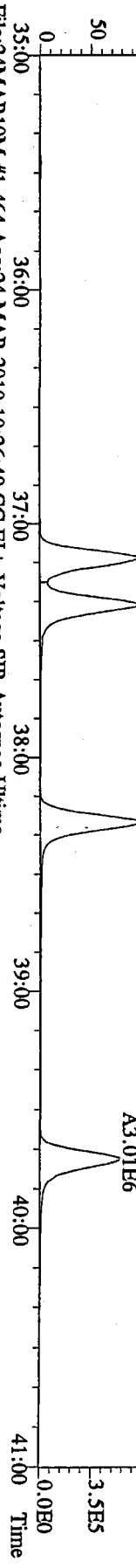
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409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



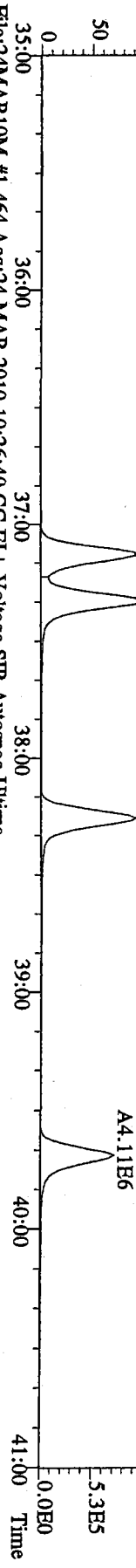
File:24MARIOM #1-464 Acq:24-MAR-2010 10:26:40 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



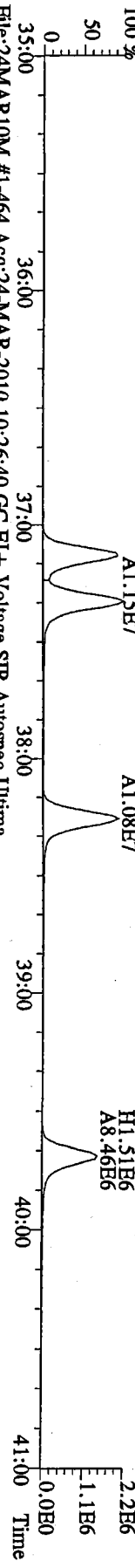
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 375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



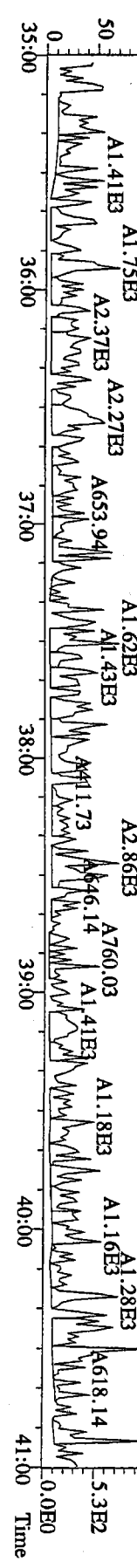
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 383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



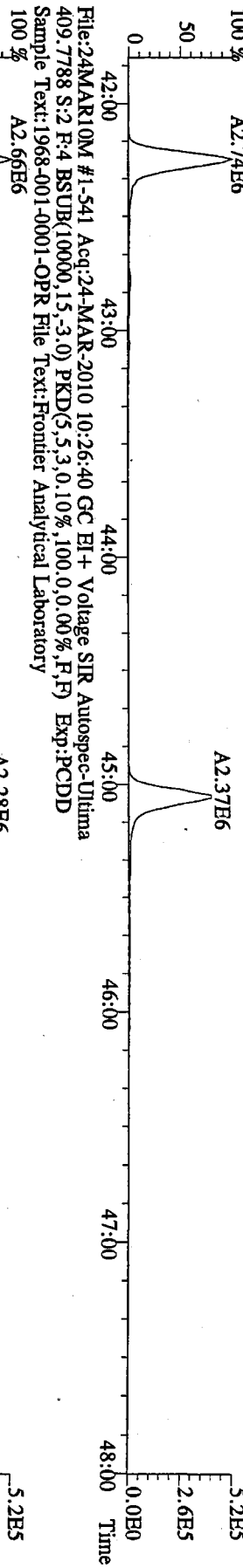
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 385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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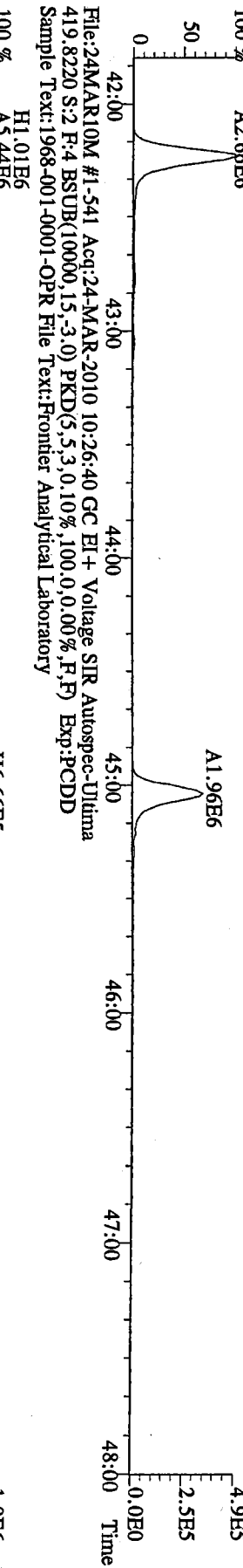
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 Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



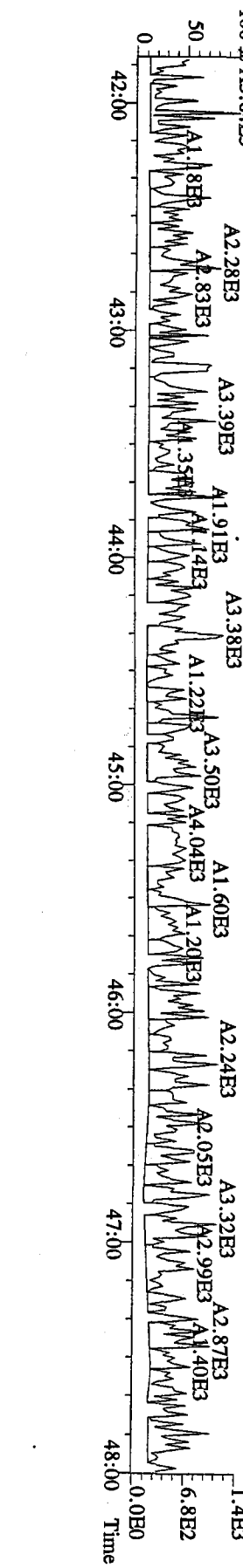
File:24MARIOM #1-541 Acq:24-MAR-2010 10:26:40 GC EI + Voltage SIR Autospec-Ultima
 407.7818 S.2.F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



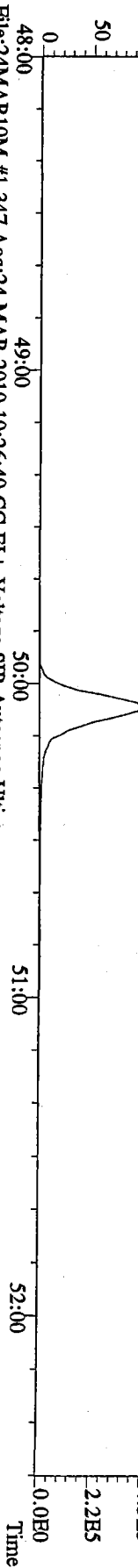
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 Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



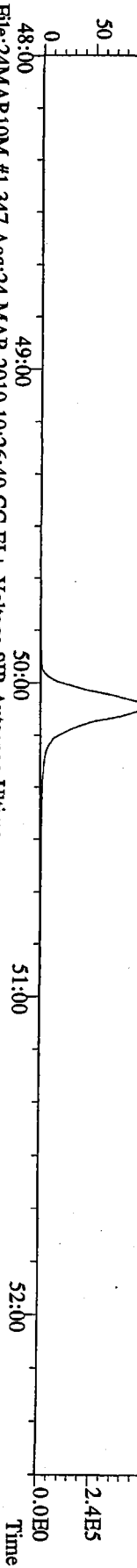
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 419.8220 S.2.F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



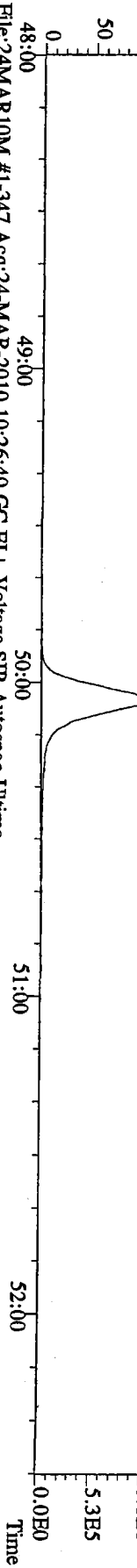
File:24MARIOM #1-347 Acq:24-MAR-2010 10:26:40 GC EI+ Voltage SIR Autospec-Utima
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



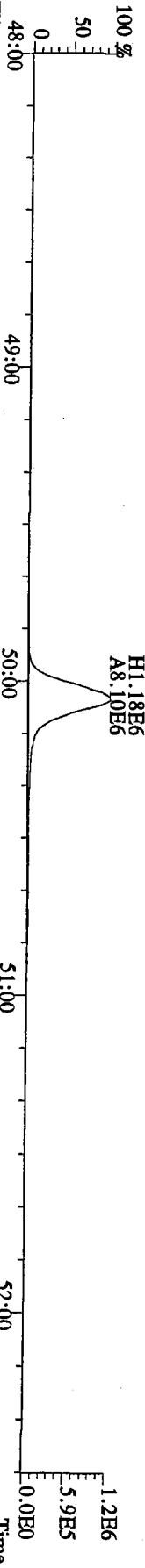
File:24MARIOM #1-347 Acq:24-MAR-2010 10:26:40 GC EI+ Voltage SIR Autospec-Utima
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



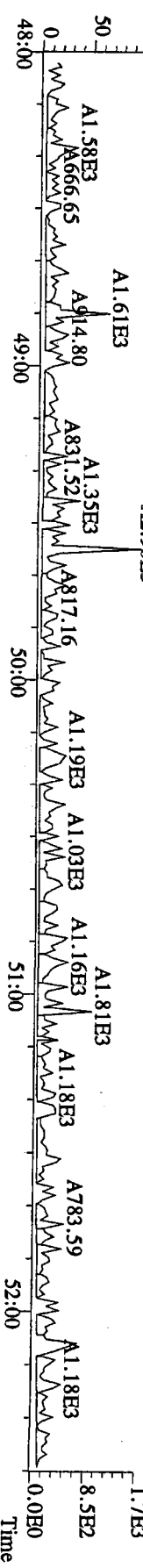
File:24MARIOM #1-347 Acq:24-MAR-2010 10:26:40 GC EI+ Voltage SIR Autospec-Utima
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %




File:24MARIOM #1-347 Acq:24-MAR-2010 10:26:40 GC EI+ Voltage SIR Autospec-Utima
455.7801 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:1968-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24MARIOM #1-347 Acq:24-MAR-2010 10:26:40 GC EI+ Voltage SIR Autospec-Utima
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1968-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.02	*		2.50	710	670	3.52	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	*		2.50	630	490	3.61	0
1,2,3,4,7,8-HxCDD	2.89e+04	1.09	y 38:35	1.37	7.11	J	2.50	-	-	*	6
1,2,3,6,7,8-HxCDD	6.66e+04	1.36	y 38:43	1.34	17.8	J	2.50	-	-	*	2
1,2,3,7,8,9-HxCDD	5.01e+04	1.24	y 39:10	1.37	12.8	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.69e+06	0.95	y 44:10	1.17	522		2.50	-	-	*	
OCDD	1.14e+07	0.90	y 49:44	1.21	4290		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.29	*		2.50	393	729	1.39	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	527	503	2.44	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.91	*		2.50	527	503	2.59	
1,2,3,4,7,8-HxCDF	9.56e+04	1.31	y 37:10	1.00	20.7	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	7.11e+04	1.32	y 37:21	0.92	14.6	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	4.19e+04	1.20	y 38:19	0.99	9.09	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.09	*		2.50	620	574	3.76	
1,2,3,4,6,7,8-HpCDF	5.47e+05	0.99	y 42:17	1.36	135		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	5.19e+04	1.13	y 45:05	1.61	13.6	J	2.50	-	-	*	
OCDF	8.56e+05	0.87	y 50:05	0.84	324		2.50	-	-	*	
13C-2,3,7,8-TCDD	1.79e+07	0.73	y 27:19	0.94	3390					82.4	
13C-1,2,3,7,8-PeCDD	1.71e+07	1.57	y 33:09	1.02	3000					72.8	
13C-1,2,3,4,7,8-HxCDD	1.22e+07	1.30	y 38:32	0.98	3380					82.1	
13C-1,2,3,6,7,8-HxCDD	1.14e+07	1.34	y 38:42	0.94	3330					81.0	
13C-1,2,3,4,6,7,8-HpCDD	1.14e+07	1.03	y 44:10	0.90	3460					84.2	
13C-OCDD	1.80e+07	0.97	y 49:44	0.67	7390					89.7	
13C-2,3,7,8-TCDF	2.65e+07	0.79	y 26:34	0.88	3330					81.0	
13C-1,2,3,7,8-PeCDF	2.45e+07	1.60	y 31:26	0.88	3080					74.8	
13C-2,3,4,7,8-PeCDF	2.29e+07	1.62	y 32:44	0.85	2980					72.3	
13C-1,2,3,4,7,8-HxCDF	1.90e+07	0.48	y 37:09	1.72	3030					73.5	
13C-1,2,3,6,7,8-HxCDF	2.18e+07	0.48	y 37:21	2.00	2980					72.3	
13C-2,3,4,6,7,8-HxCDF	1.92e+07	0.49	y 38:16	1.74	3030					73.5	
13C-1,2,3,7,8,9-HxCDF	1.70e+07	0.50	y 39:43	1.51	3080					74.9	
13C-1,2,3,4,6,7,8-HpCDF	1.22e+07	0.47	y 42:15	1.10	3040					73.8	
13C-1,2,3,4,7,8,9-HpCDF	9.81e+06	0.47	y 45:03	0.85	3160					76.9	
13C-OCDF	2.58e+07	0.89	y 50:05	1.17	6010					73.0	
37Cl-2,3,7,8-TCDD	7.64e+06		27:21	0.97	1400					85.0	
13C-1,2,3,4-TCDD	2.31e+07	0.74	y 26:45	-	182						
13C-1,2,3,4-TCDF	3.73e+07	0.80	y 25:29	-	166						
13C-1,2,3,7,8,9-HxCDD	1.51e+07	1.33	y 39:09	-	151						
Total Tetra-Dioxins	*		NotFnd	1.02	*		2.50	710	670	3.52	0
Total Penta-Dioxins	*		NotFnd	0.96	*		2.50	630	1150	5.74	0
Total Hexa-Dioxins	3.86e+05		36:07	1.36	99.3		2.50	-	-	*	6
Total Hepta-Dioxins	2.91e+06		42:48	1.17	898		2.50	-	-	*	2
Total Tetra-Furans	2.01e+05		25:45	1.29	24.3	D,M	2.50	-	-	*	3
1st Fn. Tot Penta-Furans	8.39e+04		28:24	0.90	16.2	D,M	2.50	-	-	*	PeCDF 1
Total Penta-Furans	3.65e+05		30:11	0.90	70.6	D,M	2.50	-	-	*	86.8 4
Total Hexa-Furans	1.47e+06		35:13	0.99	315	D,M	2.50	-	-	*	8
Total Hepta-Furans	1.54e+06		42:17	1.47	388		2.50	-	-	*	3

Analyst:  Date: 3/24/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 12

File: 24MAR10M

S: 6 I: 1 F: 3

Acquired: 24-MAR-10 14:08:02

Total Concentration: 99.3

Unnamed Concentration: 61.593

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:07	3.92e+04	3.03e+04	1.29 y	6.95e+04	17.8	
37:01	1.08e+04	8.44e+03	1.28 y	1.92e+04	4.92	
37:28	8.64e+04	6.56e+04	1.32 y	1.52e+05	38.9	
38:35	1.51e+04	1.39e+04	1.09 y	2.89e+04	7.11	1,2,3,4,7,8-HxCDD
38:43	3.84e+04	2.82e+04	1.36 y	6.66e+04	17.8	1,2,3,6,7,8-HxCDD
39:10	2.77e+04	2.24e+04	1.24 y	5.01e+04	12.8	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 12

File: 24MAR10M

S: 6 I: 1 F: 4

Acquired: 24-MAR-10 14:08:02

Total Concentration: 898

Unnamed Concentration: 375.943

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	5.81e+05	6.37e+05	0.91 y	1.22e+06	376	
44:10	8.22e+05	8.68e+05	0.95 y	1.69e+06	522	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 12

File: 24MAR10M

S: 6 I: 1 F: 1

Acquired: 24-MAR-10 14:08:02

Total Concentration: 24.3

Unnamed Concentration: 24.261

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
25:45	1.59e+04	2.38e+04	0.67 y	3.97e+04	4.79	
27:50	4.09e+04	5.73e+04	0.71 y	9.82e+04	11.8	
28:03	2.71e+04	3.61e+04	0.75 y	6.32e+04	7.63	

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

Run: 12 File: 24MAR10M S: 6 I: 1 F: 1
Acquired: 24-MAR-10 14:08:02

Total Concentration: 16.2 Unnamed Concentration: 16.222

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:24	4.91e+04	3.47e+04	1.41 y	8.39e+04	16.2	

Totals class: Total Penta-Furans

Entry #: 44

Run: 12

File: 24MAR10M

S: 6 I: 1 F: 2

Acquired: 24-MAR-10 14:08:02

Total Concentration: 70.6

Unnamed Concentration: 70.614

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:11	3.11e+04	2.15e+04	1.45 y	5.26e+04	10.2	
31:44	1.18e+05	7.35e+04	1.61 y	1.91e+05	37.0	
32:03	5.17e+04	3.31e+04	1.56 y	8.48e+04	16.4	
34:04	2.17e+04	1.45e+04	1.49 y	3.62e+04	7.00	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 12

File: 24MAR10M

S: 6 I: 1 F: 3

Acquired: 24-MAR-10 14:08:02

Total Concentration: 315

Unnamed Concentration: 270.690

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:13	3.02e+04	2.59e+04	1.17 y	5.61e+04	12.1	
35:29	1.21e+05	9.91e+04	1.22 y	2.20e+05	47.3	
36:24	1.63e+05	1.40e+05	1.17 y	3.03e+05	65.2	
36:42	4.32e+04	3.77e+04	1.15 y	8.09e+04	17.4	
37:10	5.42e+04	4.14e+04	1.31 y	9.56e+04	20.7	1,2,3,4,7,8-HxCDF
37:21	4.04e+04	3.07e+04	1.32 y	7.11e+04	14.6	1,2,3,6,7,8-HxCDF
38:05	3.26e+05	2.71e+05	1.20 y	5.97e+05	129	
38:19	2.28e+04	1.91e+04	1.20 y	4.19e+04	9.09	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 12

File: 24MAR10M

S: 6 I: 1 F: 4

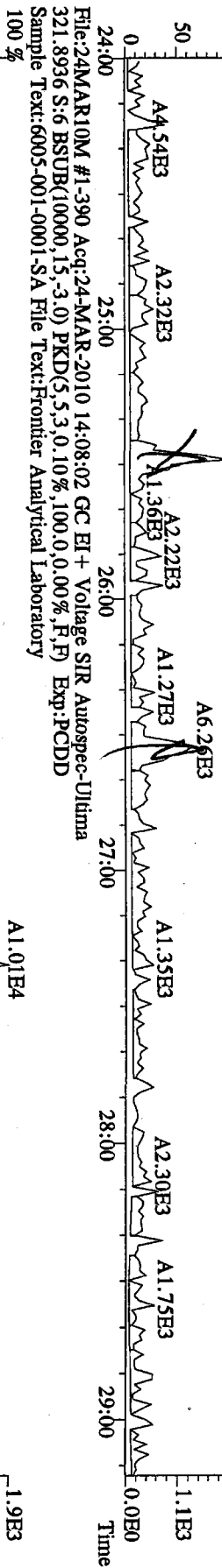
Acquired: 24-MAR-10 14:08:02

Total Concentration: 388

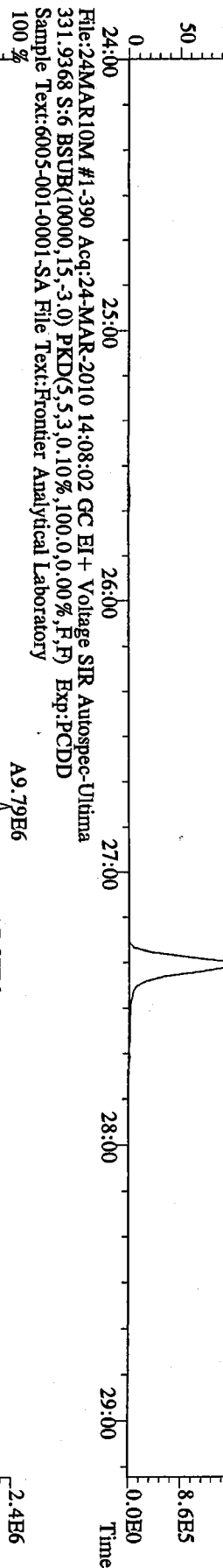
Unnamed Concentration: 238.998

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	2.72e+05	2.74e+05	0.99 y	5.47e+05	135	1,2,3,4,6,7,8-HpCDF
43:05	4.81e+05	4.58e+05	1.05 y	9.39e+05	239	
45:05	2.76e+04	2.43e+04	1.13 y	5.19e+04	13.6	1,2,3,4,7,8,9-HpCDF

File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



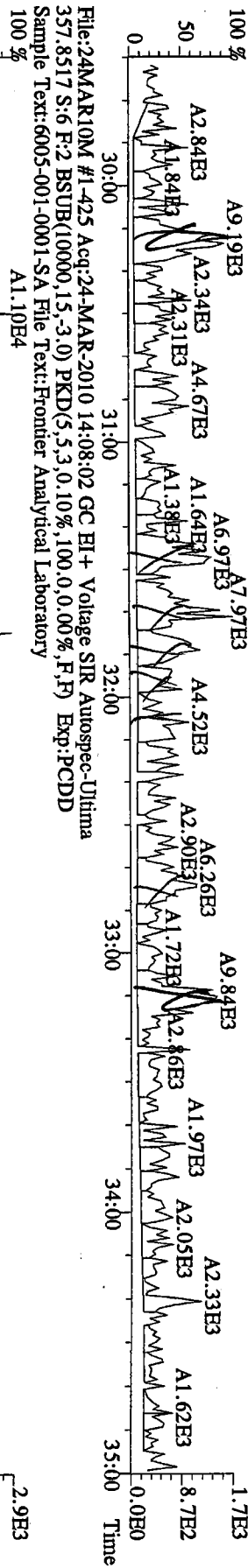
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



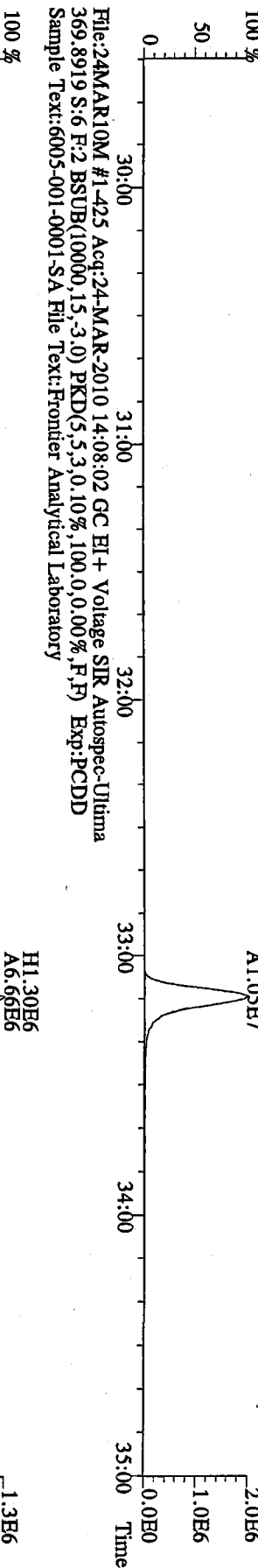
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



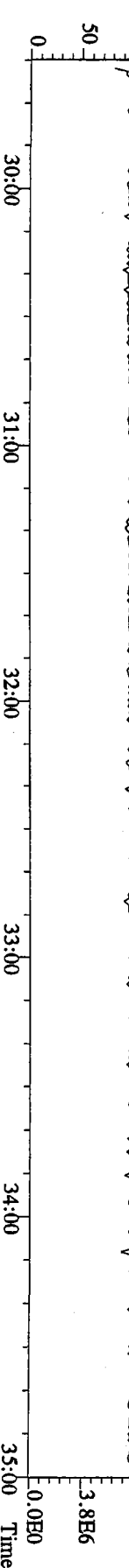
File:24MAR10M #1-425 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 355.8346 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



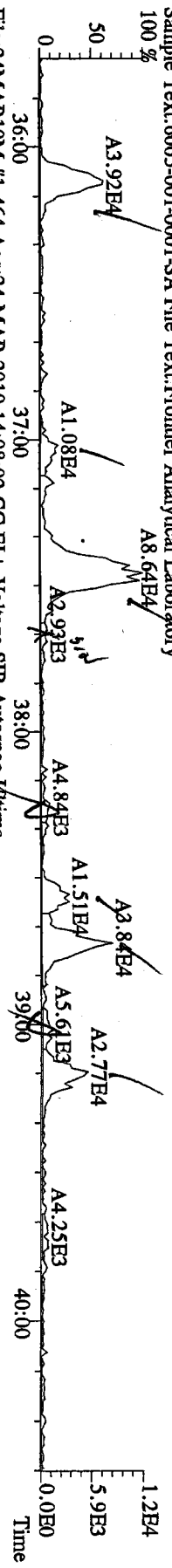
File:24MAR10M #1-425 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



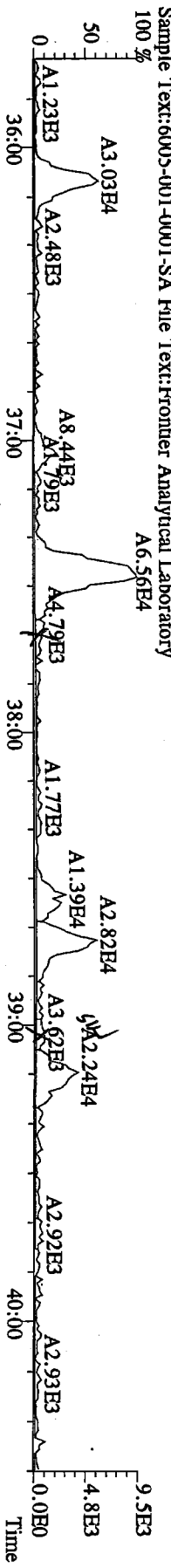
File:24MAR10M #1-425 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:6 F:2 Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



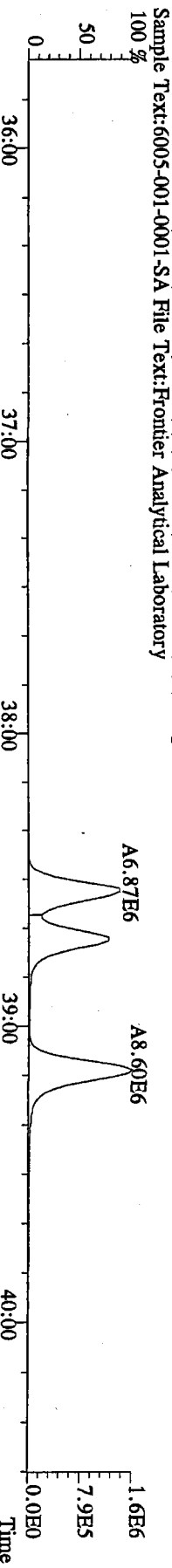
File:24MARI0M #1-464 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



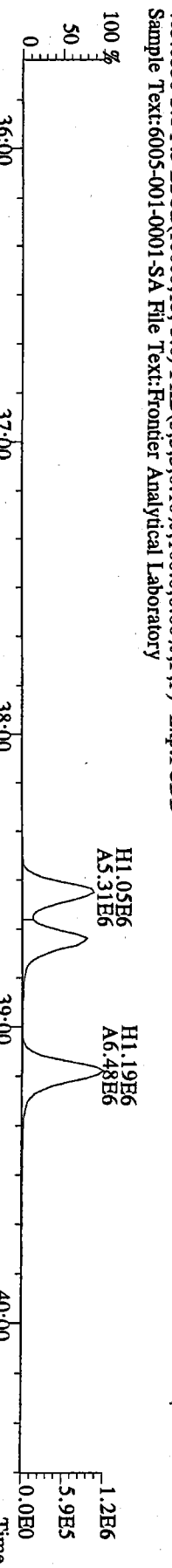
File:24MARI0M #1-464 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



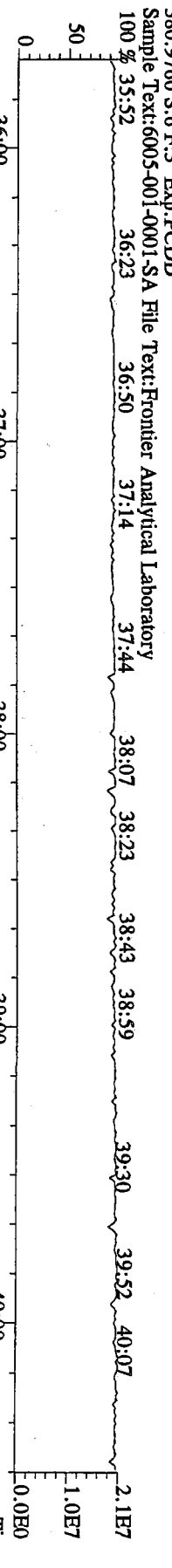
File:24MARI0M #1-464 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



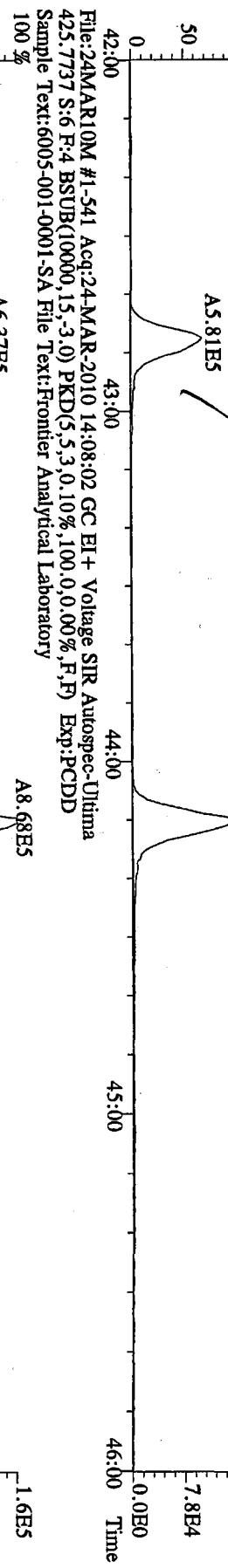
File:24MARI0M #1-464 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



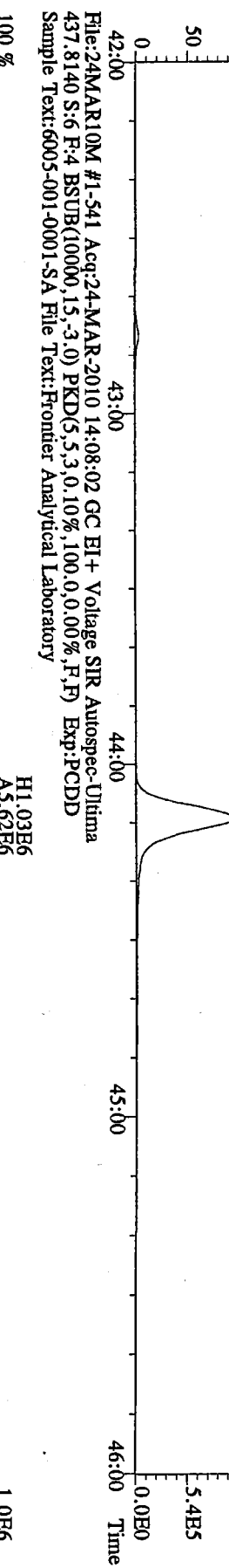
File:24MARI0M #1-464 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 380.9760 S:6 F:3 Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



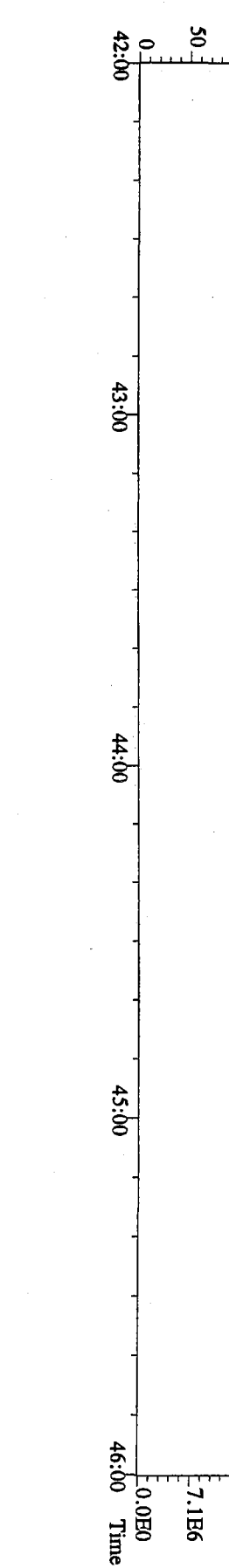
File:24MARIOM #1-541 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



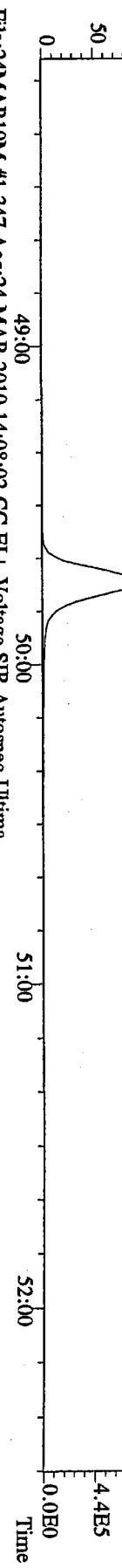
File:24MARIOM #1-541 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



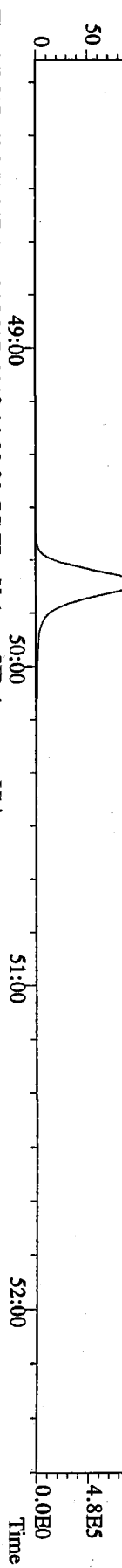
File:24MARIOM #1-541 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:6 F:4 Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



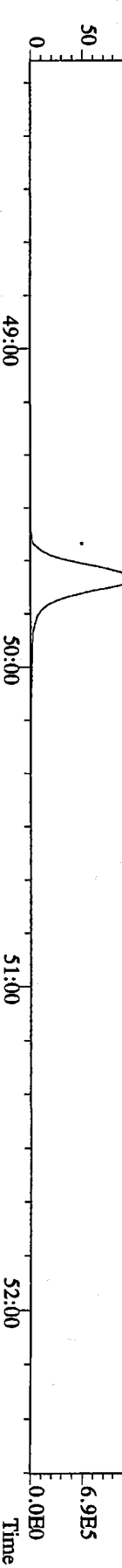
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



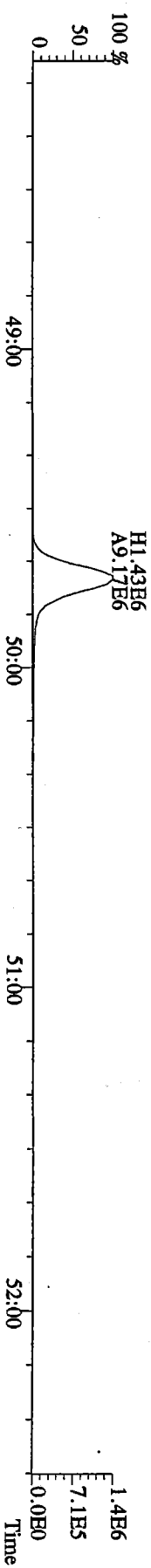
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



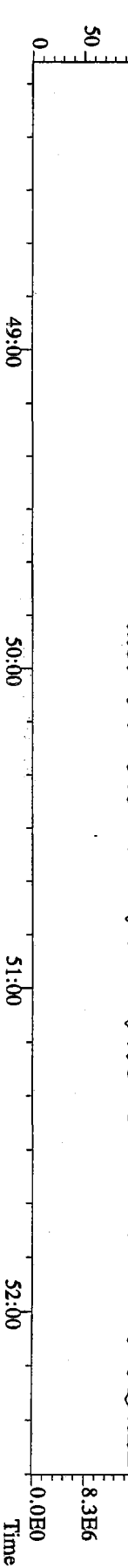
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



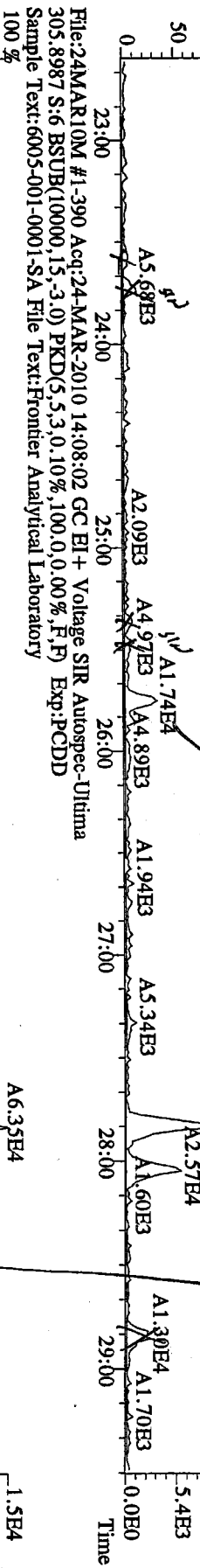
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



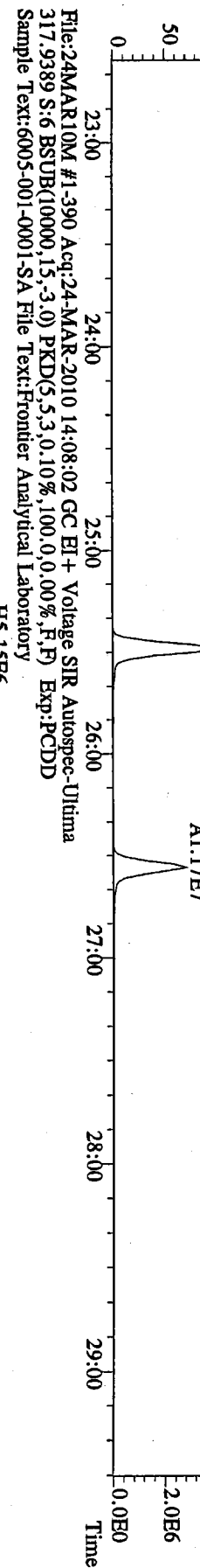
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:6 F:5 Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



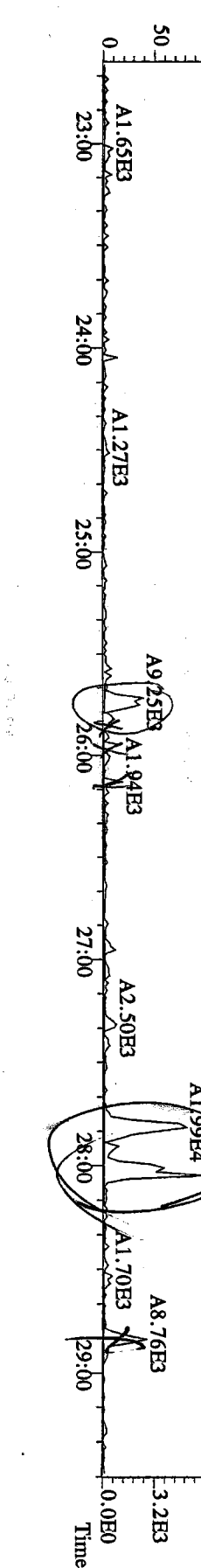
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



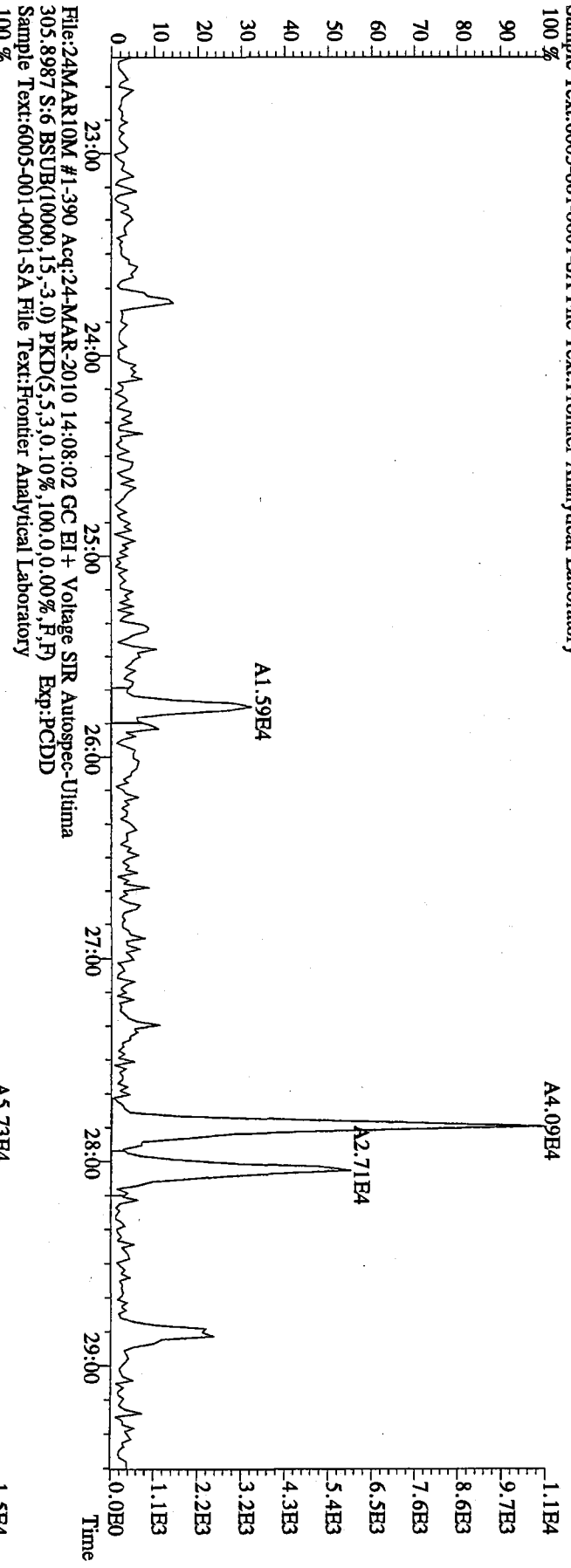
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



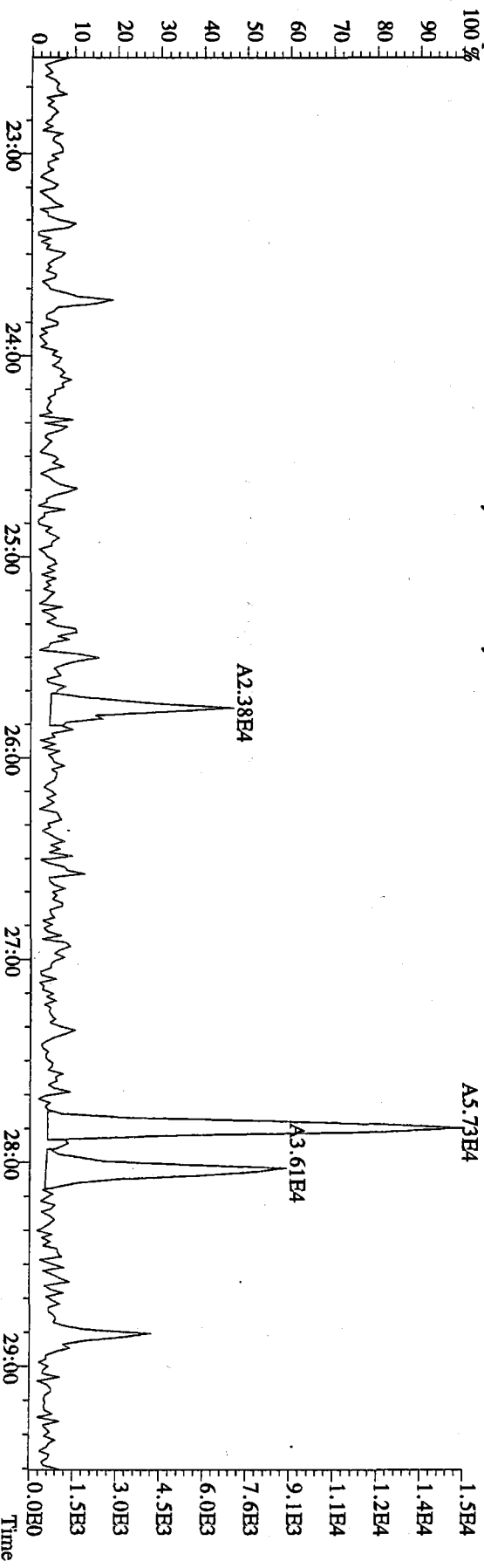
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



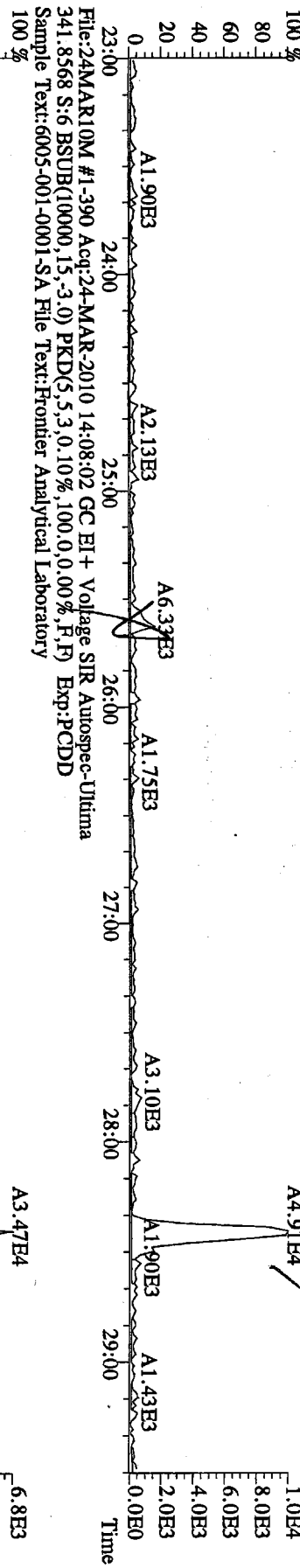
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



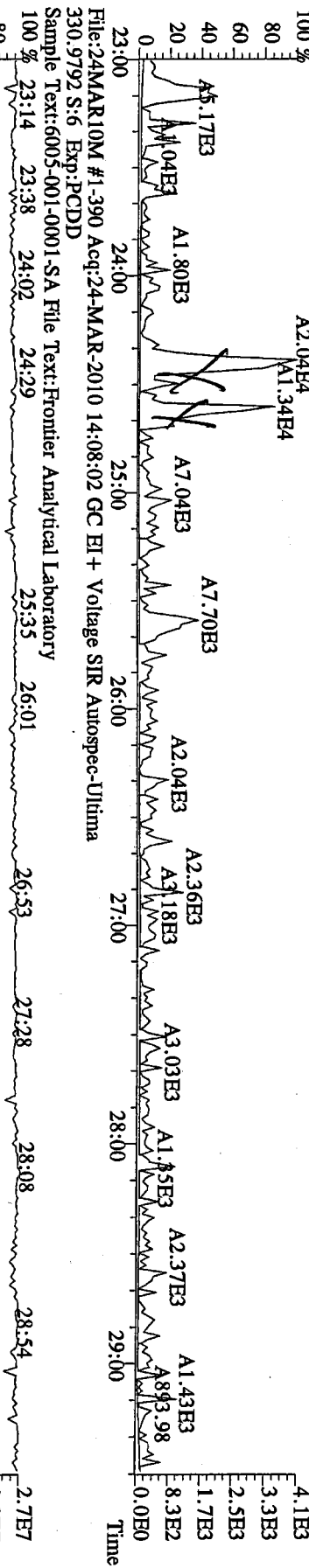
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



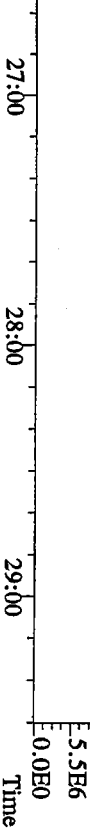
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



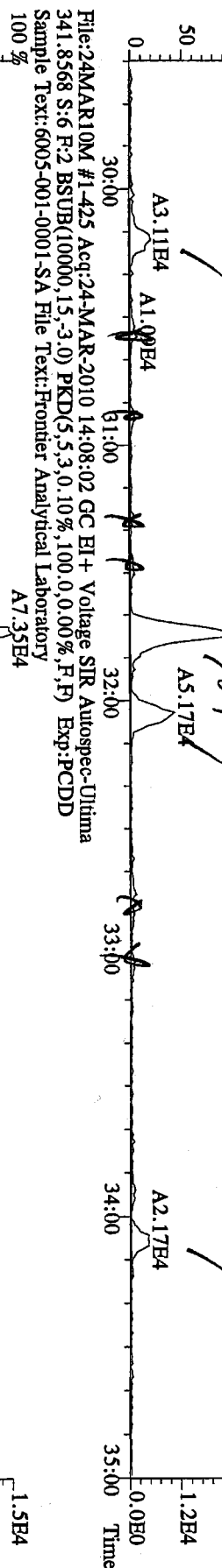
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



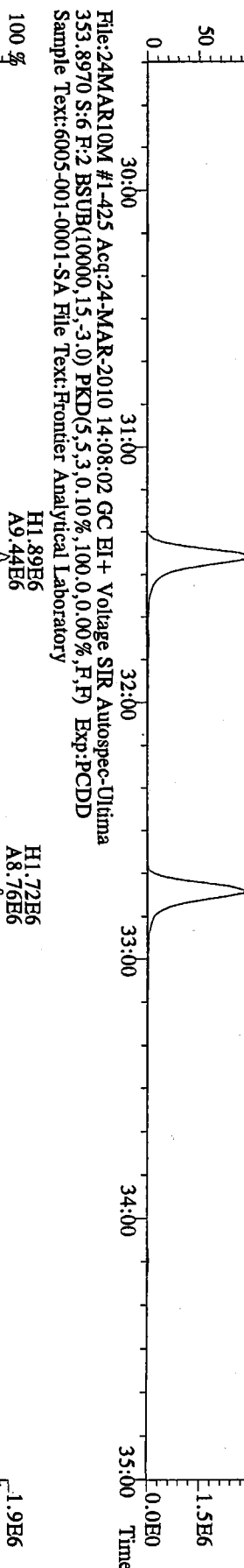
File:24MAR10M #1-390 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 330.9792 S:6 Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



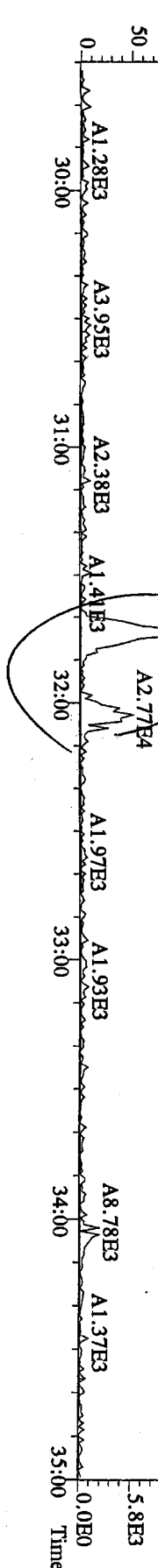
File:24MARIOM #1-425 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



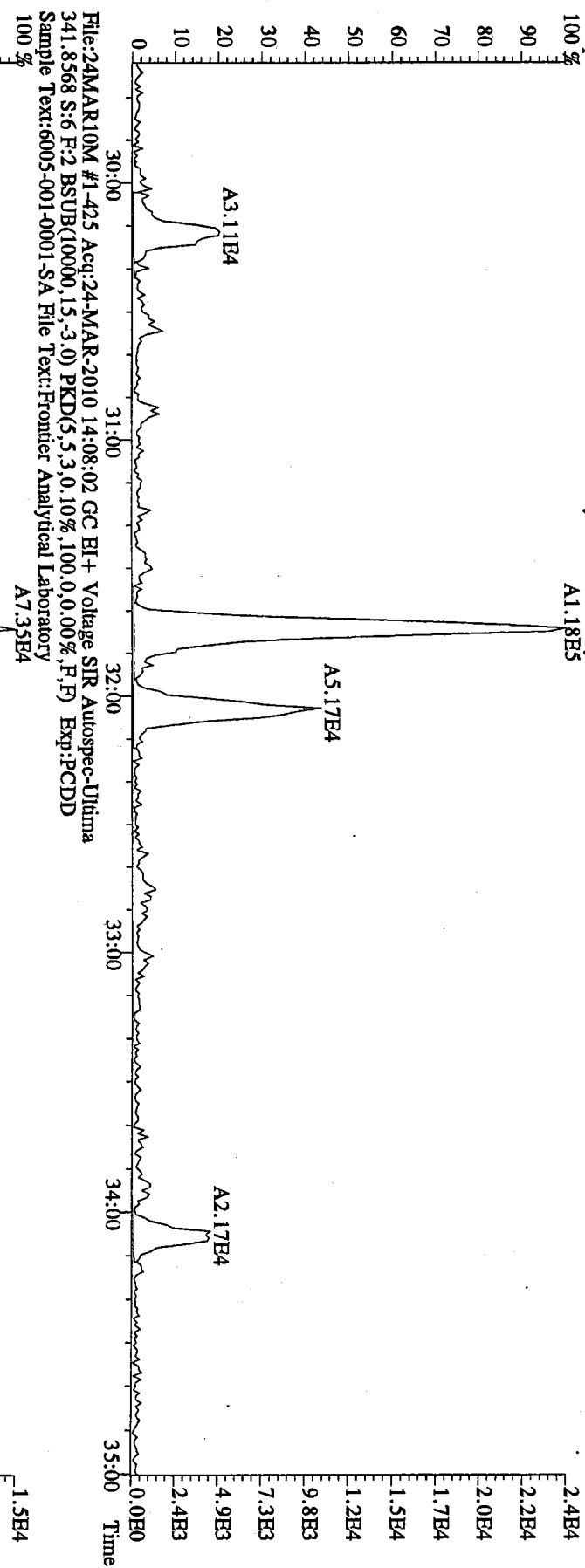
File:24MARIOM #1-425 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



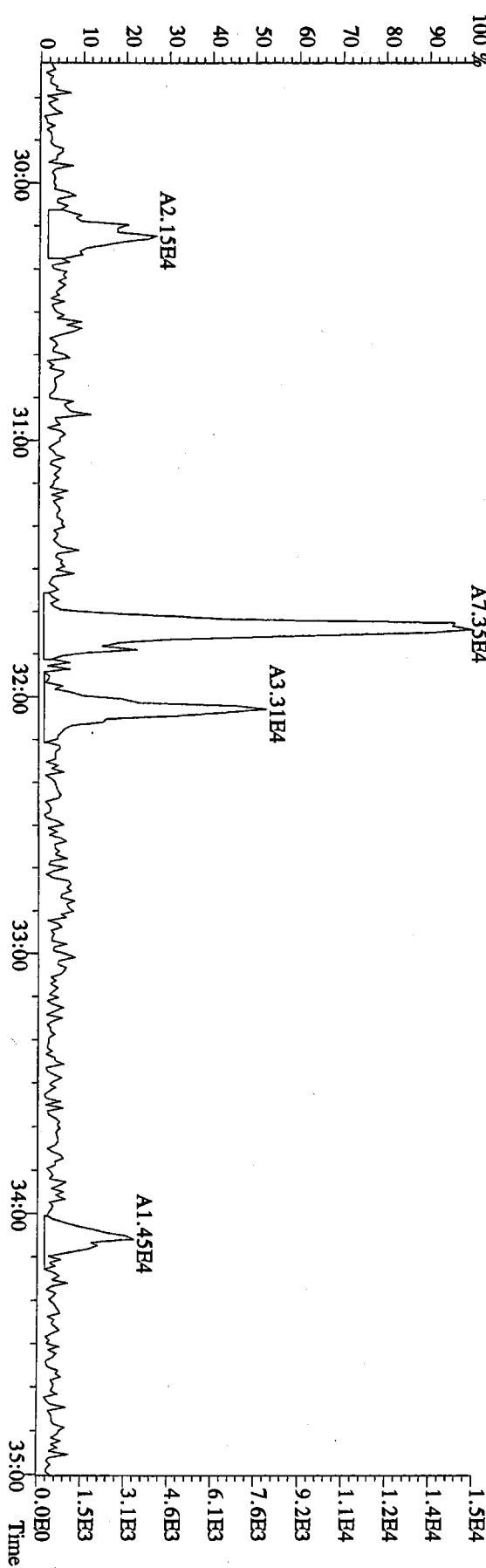
File:24MARIOM #1-425 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



File:24MAR10M #1-425 Acq:24-MAR-2010 14:08:02 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:6005-001-0001-SA File Text:Frontier Analytical Laboratory

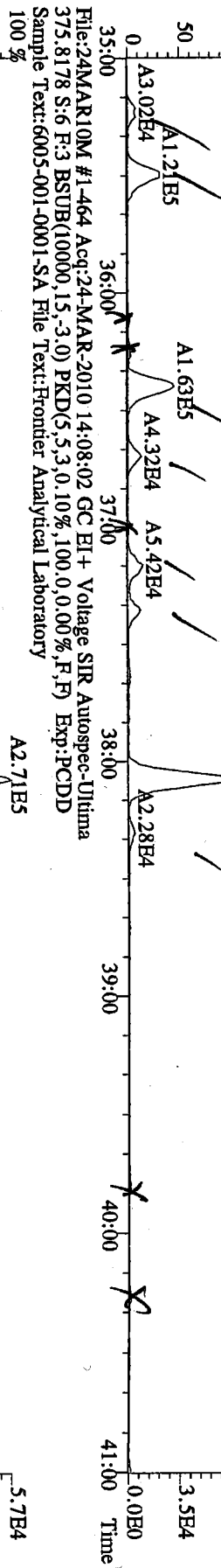


File:24MAR10M #1-425 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory

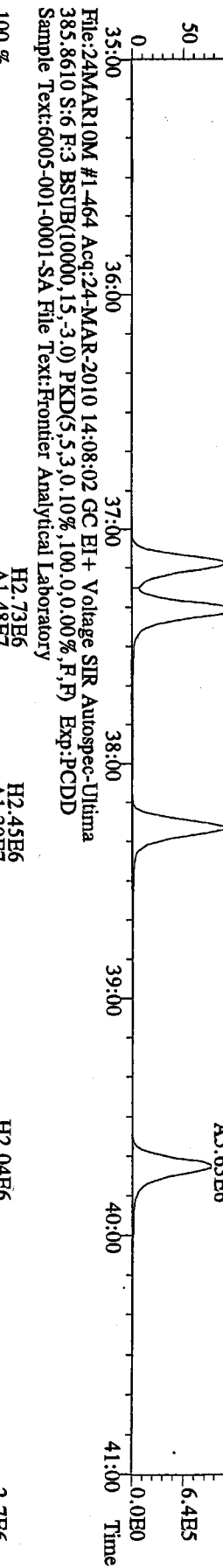


File:24MARIOM #1-464 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory

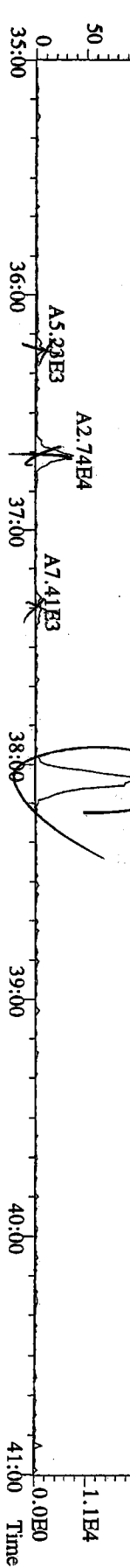
DM



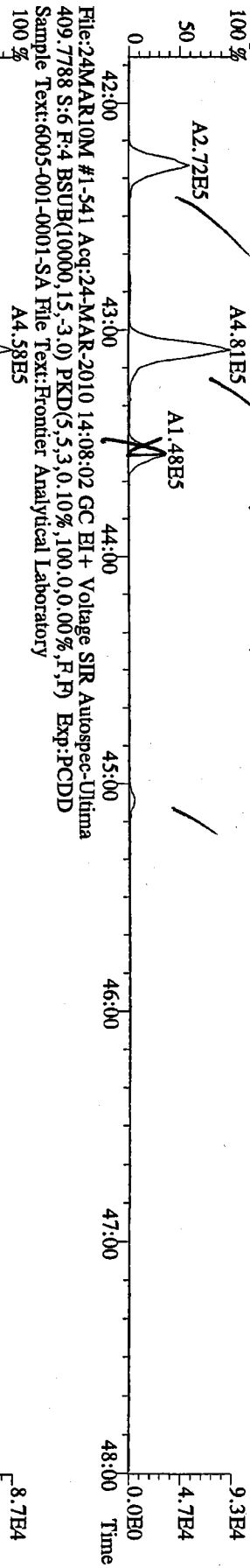
File:24MARIOM #1-464 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



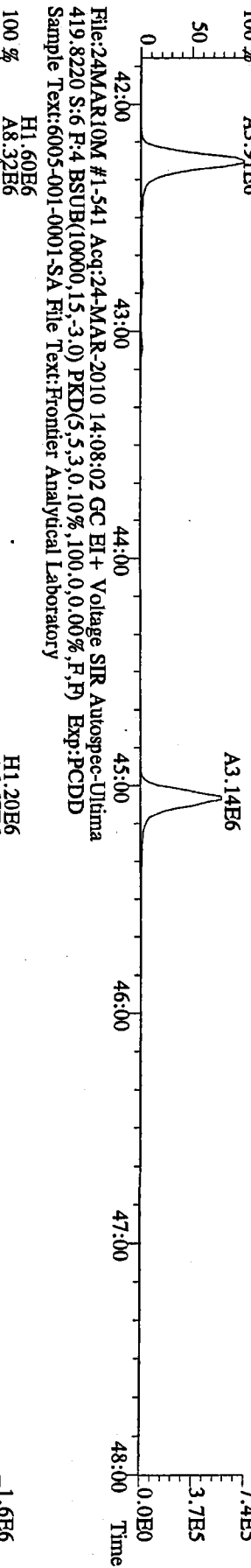
File:24MARIOM #1-464 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



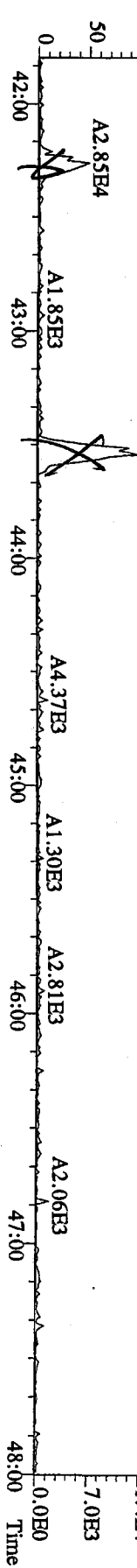
File:24MARIOM #1-541 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



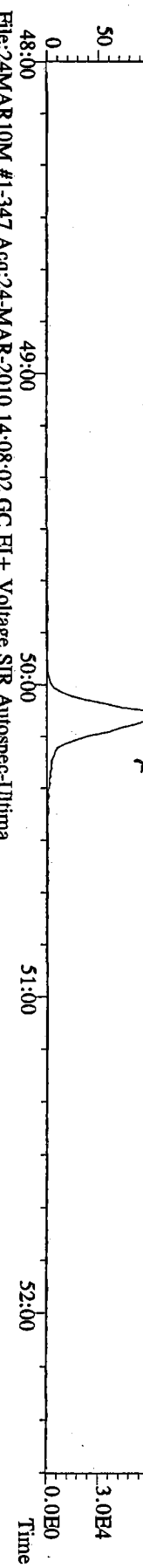
File:24MARIOM #1-541 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



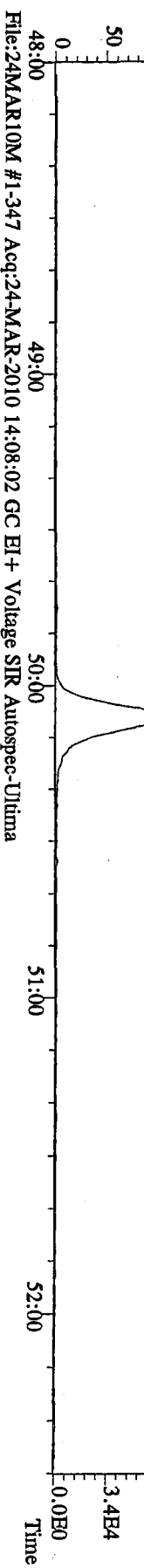
File:24MARIOM #1-541 Acq:24-MAR-2010 14:08:02 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory
100 %



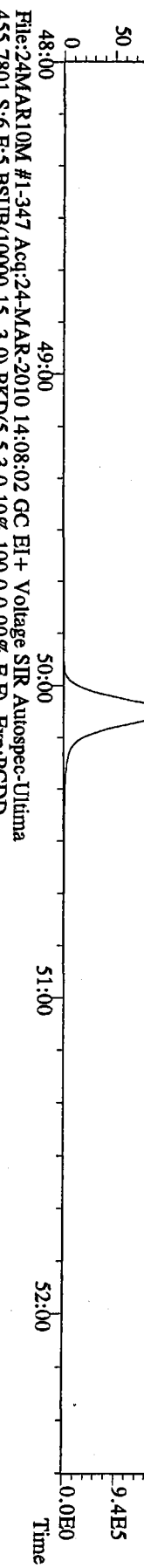
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



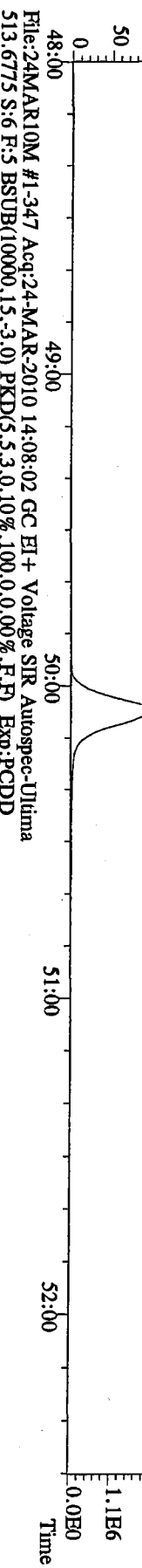
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory



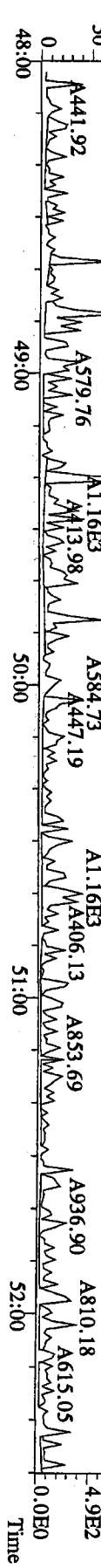
File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 GC EI + Voltage SIR Autospec-Ultima
 453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-001-0001-SA File Text:Frontier Analytical Laboratory




File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 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:6005-001-0001-SA File Text:Frontier Analytical Laboratory



File:24MAR10M #1-347 Acq:24-MAR-2010 14:08:02 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:6005-001-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.02	*		2.50	727	677	2.88	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	*		2.50	1180	922	5.73	0
1,2,3,4,7,8-HxCDD	3.93e+04	1.38 y	38:34	1.37	8.14	J	2.50	-	-	*	6
1,2,3,6,7,8-HxCDD	8.36e+04	1.24 y	38:44	1.34	19.5	J	2.50	-	-	*	2
1,2,3,7,8,9-HxCDD	6.95e+04	1.20 y	39:11	1.37	15.2	J	2.50	-	-	*	3
1,2,3,4,6,7,8-HpCDD	2.42e+06	0.93 y	44:11	1.17	626		2.50	-	-	*	8
OCDD	2.26e+07	0.90 y	49:45	1.21	7060		2.50	-	-	*	3
2,3,7,8-TCDF	*	* n	NotFnd	1.29	*		2.50	471	1060	1.72	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	623	542	2.33	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.91	*		2.50	623	542	2.48	
1,2,3,4,7,8-HxCDF	1.28e+05	1.21 y	37:11	1.00	23.8	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	7.50e+04	1.22 y	37:21	0.92	13.4	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	4.75e+04	1.22 y	38:19	0.99	8.80	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.09	*		2.50	672	423	2.79	
1,2,3,4,6,7,8-HpCDF	6.53e+05	1.06 y	42:17	1.36	140		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	6.99e+04	1.08 y	45:05	1.61	15.3	J	2.50	-	-	*	
OCDF	1.10e+06	0.89 y	50:07	0.84	346		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.19e+07	0.73 y	27:20	0.94	4030					96.5	
13C-1,2,3,7,8-PeCDD	1.98e+07	1.57 y	33:10	1.02	3370					80.8	
13C-1,2,3,4,7,8-HxCDD	1.47e+07	1.32 y	38:33	0.98	4050					97.0	
13C-1,2,3,6,7,8-HxCDD	1.33e+07	1.33 y	38:43	0.94	3850					92.3	
13C-1,2,3,4,6,7,8-HpCDD	1.38e+07	1.04 y	44:10	0.90	4180					100	
13C-OCDD	2.20e+07	0.96 y	49:44	0.67	8940					107	
13C-2,3,7,8-TCDF	3.20e+07	0.80 y	26:33	0.88	3950					94.6	
13C-1,2,3,7,8-PeCDF	2.88e+07	1.61 y	31:27	0.88	3560					85.3	
13C-2,3,4,7,8-PeCDF	2.64e+07	1.58 y	32:45	0.85	3360					80.6	
13C-1,2,3,4,7,8-HxCDF	2.25e+07	0.47 y	37:09	1.72	3550					85.1	
13C-1,2,3,6,7,8-HxCDF	2.55e+07	0.47 y	37:21	2.00	3450					82.6	
13C-2,3,4,6,7,8-HxCDF	2.28e+07	0.49 y	38:17	1.74	3570					85.6	
13C-1,2,3,7,8,9-HxCDF	2.02e+07	0.48 y	39:43	1.51	3640					87.2	
13C-1,2,3,4,6,7,8-HpCDF	1.43e+07	0.48 y	42:16	1.10	3540					84.9	
13C-1,2,3,4,7,8,9-HpCDF	1.19e+07	0.48 y	45:04	0.85	3810					91.1	
13C-OCDF	3.14e+07	0.90 y	50:05	1.17	7270					87.1	
37Cl-2,3,7,8-TCDD	9.51e+06		27:21	0.97	1690					101	
13C-1,2,3,4-TCDD	2.41e+07	0.74 y	26:45	-	192						
13C-1,2,3,4-TCDF	3.85e+07	0.79 y	25:29	-	174						
13C-1,2,3,7,8,9-HxCDD	1.54e+07	1.32 y	39:09	-	157						
Total Tetra-Dioxins	*		NotFnd	1.02	*		2.50	727	677	2.88	0
Total Penta-Dioxins	*		NotFnd	0.96	*		2.50	1180	922	5.73	0
Total Hexa-Dioxins	5.03e+05		36:06	1.36	111		2.50	-	-	*	6
Total Hepta-Dioxins	4.22e+06		42:48	1.17	1090		2.50	-	-	*	2
Total Tetra-Furans	2.77e+05		25:46	1.29	28.1	D,M	2.50	-	-	*	3
1st Fn. Tot Penta-Furans	1.03e+05		28:25	0.90	17.4	D,M	2.50	-	-	*	PeCDF 1
Total Penta-Furans	4.40e+05		30:12	0.90	74.1	D,M	2.50	-	-	*	91.5 4
Total Hexa-Furans	1.73e+06		35:15	0.99	321	D,M	2.50	-	-	*	8
Total Hepta-Furans	1.90e+06		42:17	1.47	411		2.50	-	-	*	3

Analyst:  Date: 3/26/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 13

File: 24MAR10M

S: 7 I: 1 F: 3

Acquired: 24-MAR-10 15:03:20

Total Concentration: 111

Unnamed Concentration: 68.153

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:06	4.89e+04	3.80e+04	1.29 y	8.69e+04	19.0	
37:03	1.66e+04	1.23e+04	1.35 y	2.89e+04	6.33	
37:28	1.12e+05	8.31e+04	1.35 y	1.95e+05	42.8	
38:34	2.28e+04	1.65e+04	1.38 y	3.93e+04	8.14	1,2,3,4,7,8-HxCDD
38:44	4.63e+04	3.73e+04	1.24 y	8.36e+04	19.5	1,2,3,6,7,8-HxCDD
39:11	3.80e+04	3.15e+04	1.20 y	6.95e+04	15.2	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 13

File: 24MAR10M

S: 7 I: 1 F: 4

Acquired: 24-MAR-10 15:03:20

Total Concentration: 1090

Unnamed Concentration: 464.192

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	8.64e+05	9.30e+05	0.93 y	1.79e+06	464	
44:11	1.17e+06	1.26e+06	0.93 y	2.42e+06	626	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 13

File: 24MAR10M

S: 7 I: 1 F: 1

Acquired: 24-MAR-10 15:03:20

Total Concentration: 28.1

Unnamed Concentration: 28.103

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
25:46	2.09e+04	3.04e+04	0.69 y	5.12e+04	5.20	
27:50	5.57e+04	8.21e+04	0.68 y	1.38e+05	14.0	
28:03	3.51e+04	5.28e+04	0.66 y	8.79e+04	8.92	

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

Run: 13 File: 24MAR10M S: 7 I: 1 F: 1
Acquired: 24-MAR-10 15:03:20

Total Concentration: 17.4 Unnamed Concentration: 17.382

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:25	6.18e+04	4.13e+04	1.50 y	1.03e+05	17.4	

Totals class: Total Penta-Furans

Entry #: 44

Run: 13

File: 24MAR10M

S: 7 I: 1 F: 2

Acquired: 24-MAR-10 15:03:20

Total Concentration: 74.1

Unnamed Concentration: 74.121

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:12	4.35e+04	2.90e+04	1.50 y	7.25e+04	12.2	
31:44	1.37e+05	8.61e+04	1.59 y	2.23e+05	37.6	
32:04	5.68e+04	3.84e+04	1.48 y	9.52e+04	16.0	
34:05	2.86e+04	2.06e+04	1.39 y	4.92e+04	8.29	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 13

File: 24MAR10M

S: 7 I: 1 F: 3

Acquired: 24-MAR-10 15:03:20

Total Concentration: 321

Unnamed Concentration: 274.923

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:15	4.20e+04	3.16e+04	1.33 y	7.37e+04	13.6	
35:29	1.58e+05	1.26e+05	1.26 y	2.84e+05	52.6	
36:24	1.99e+05	1.63e+05	1.22 y	3.61e+05	67.0	
36:42	3.35e+04	2.81e+04	1.20 y	6.16e+04	11.4	
37:11	7.02e+04	5.78e+04	1.21 y	1.28e+05	23.8	1,2,3,4,7,8-HxCDF
37:21	4.13e+04	3.37e+04	1.22 y	7.50e+04	13.4	1,2,3,6,7,8-HxCDF
38:05	3.87e+05	3.16e+05	1.22 y	7.03e+05	130	
38:19	2.61e+04	2.14e+04	1.22 y	4.75e+04	8.80	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 13

File: 24MAR10M

S: 7 I: 1 F: 4

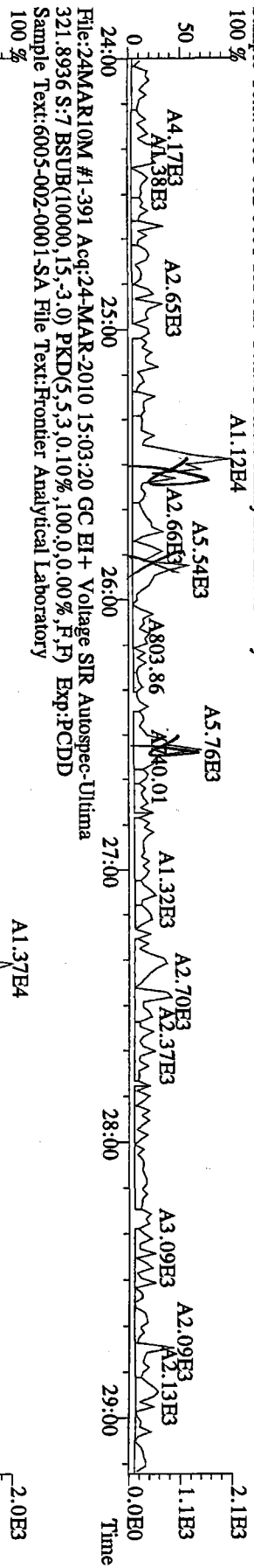
Acquired: 24-MAR-10 15:03:20

Total Concentration: 411

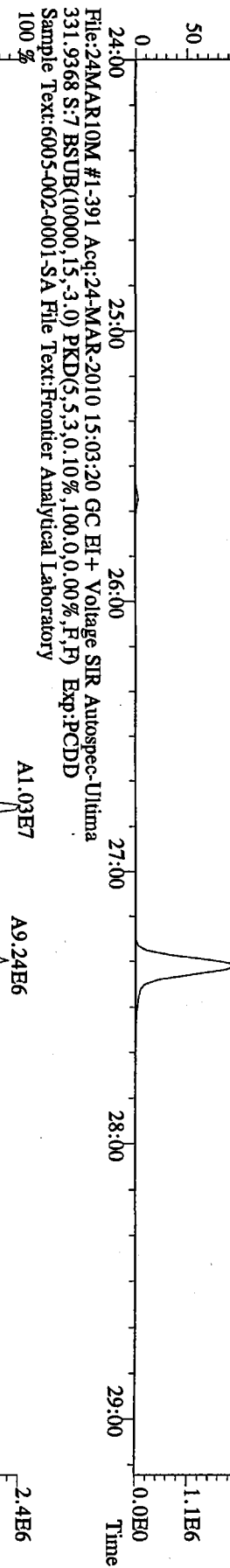
Unnamed Concentration: 255.513

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	3.36e+05	3.17e+05	1.06 y	6.53e+05	140	1,2,3,4,6,7,8-HpCDF
43:05	6.04e+05	5.73e+05	1.05 y	1.18e+06	256	
45:05	3.62e+04	3.36e+04	1.08 y	6.99e+04	15.3	1,2,3,4,7,8,9-HpCDF

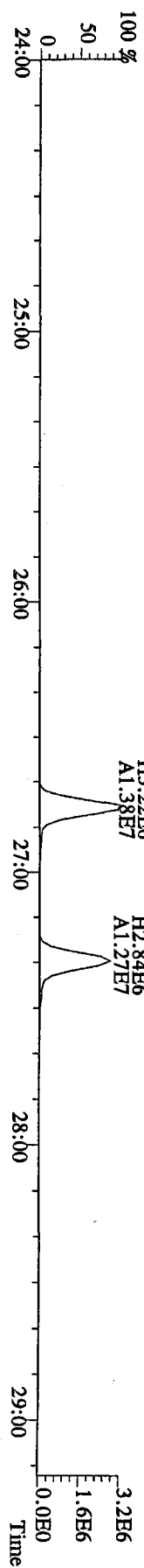
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319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



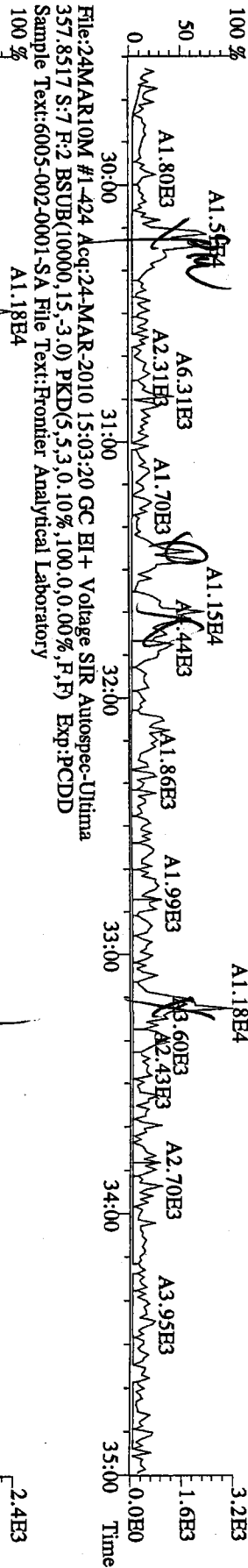
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327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



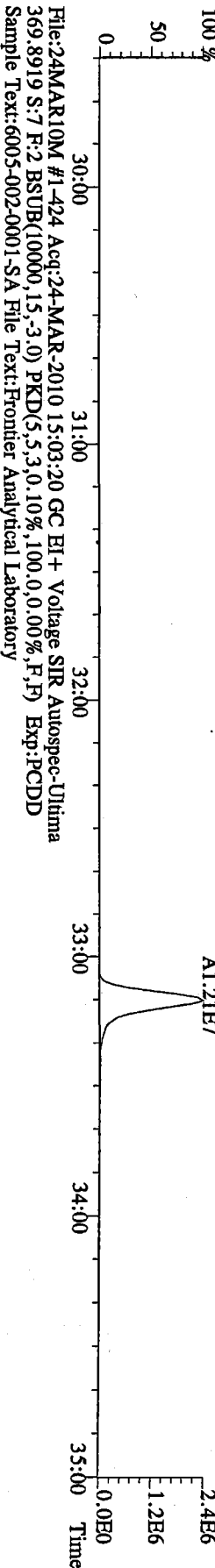
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331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



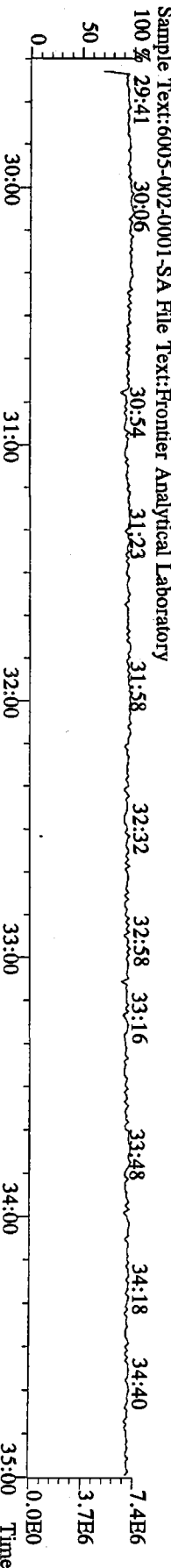
File:24MARIOM #1-424 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



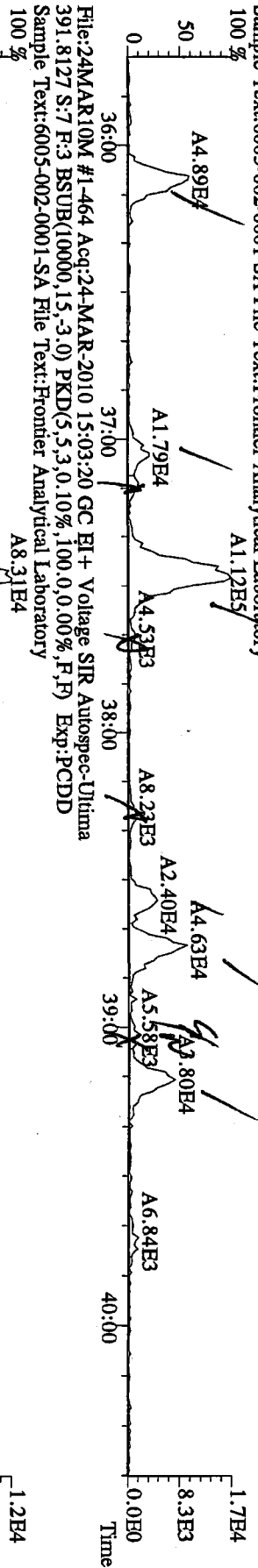
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 367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



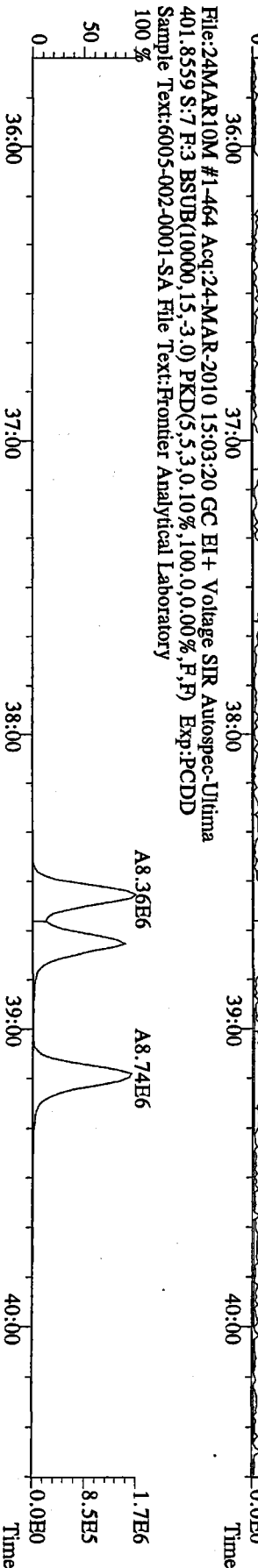
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 369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



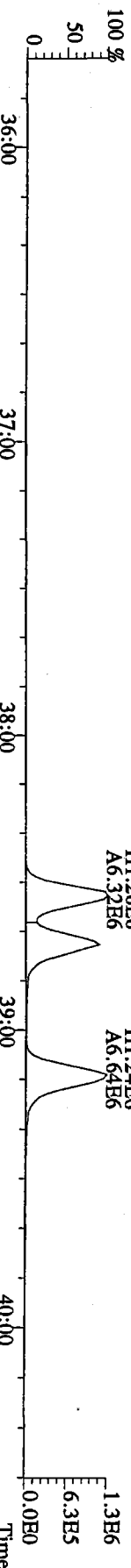
File:24MAR10M #1-464 Acq:24-MAR-2010 15:03:20 GC EI + Voltage SIR Autospec-Ultima
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



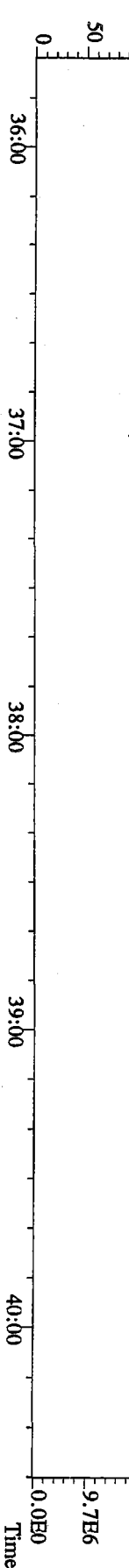
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 401.8359 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



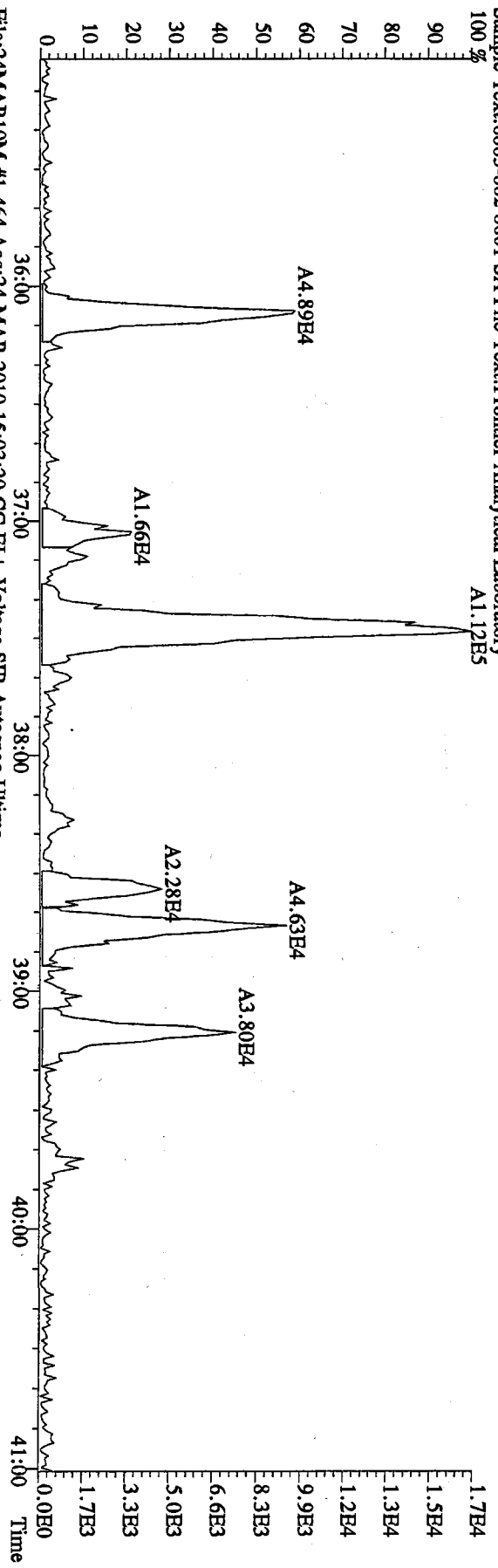
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 403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



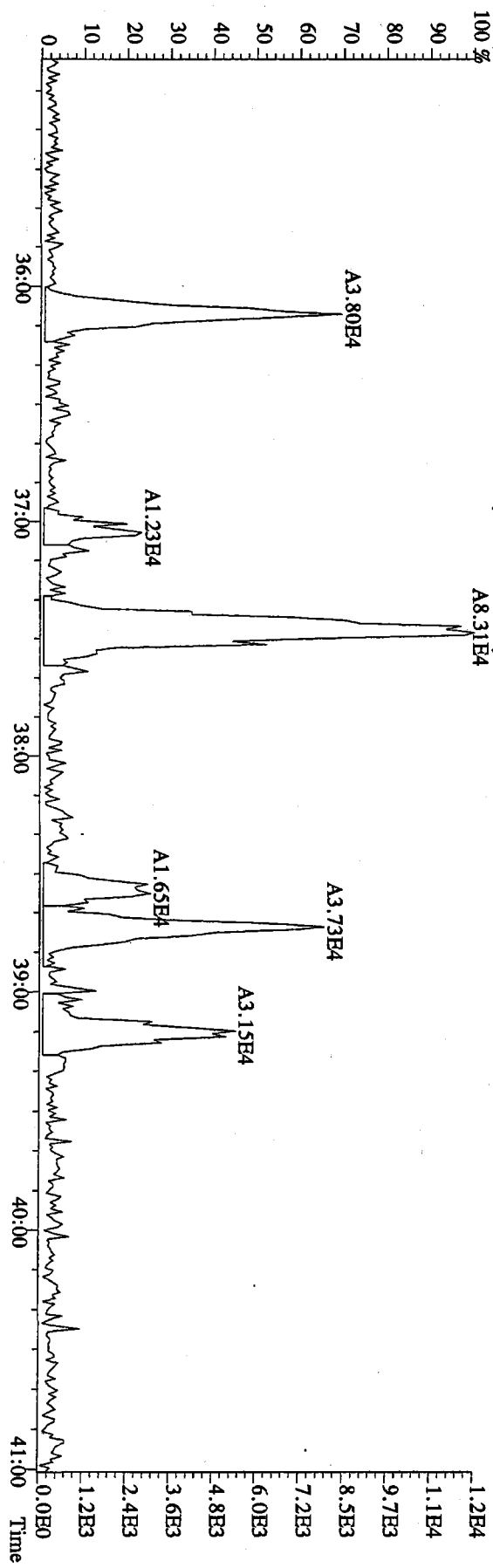
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 380.9760 S:7 F:3 Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



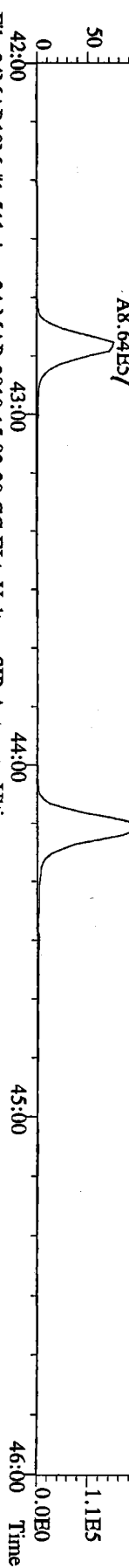
File:24MAR10M #1-464 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



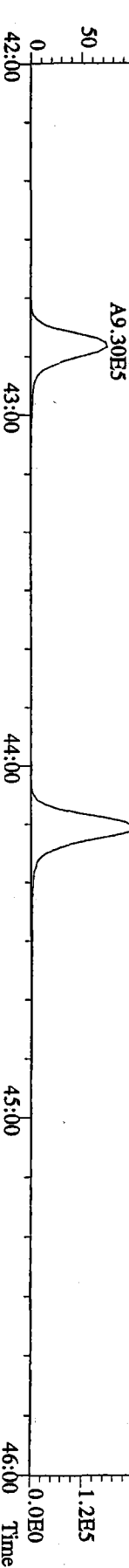
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 391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



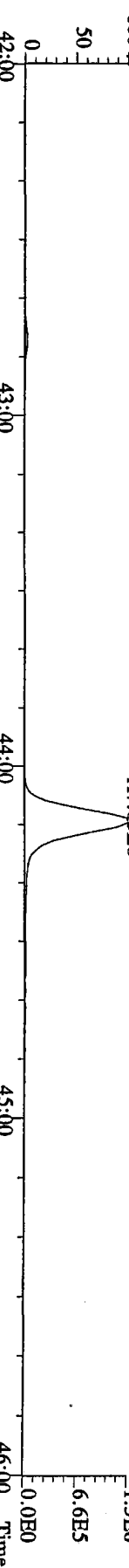
File:24MARIOM #1-541 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Fronier Analytical Laboratory
 100 %



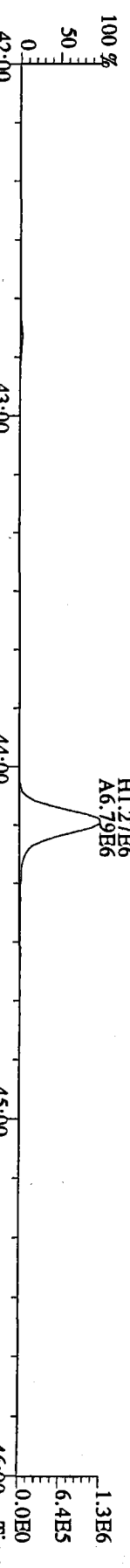
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 425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Fronier Analytical Laboratory
 100 %



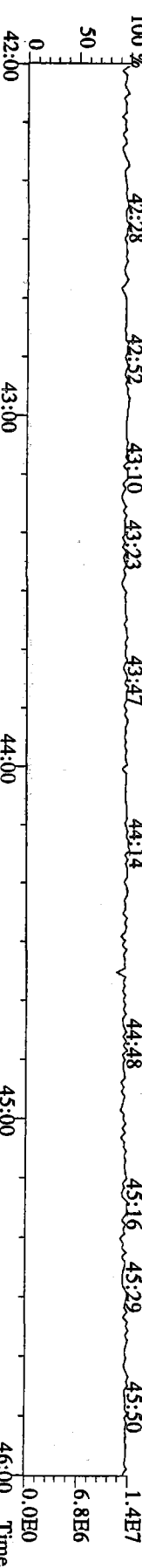
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 435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Fronier Analytical Laboratory
 100 %



File:24MARIOM #1-541 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 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:6005-002-0001-SA File Text:Fronier Analytical Laboratory
 100 %

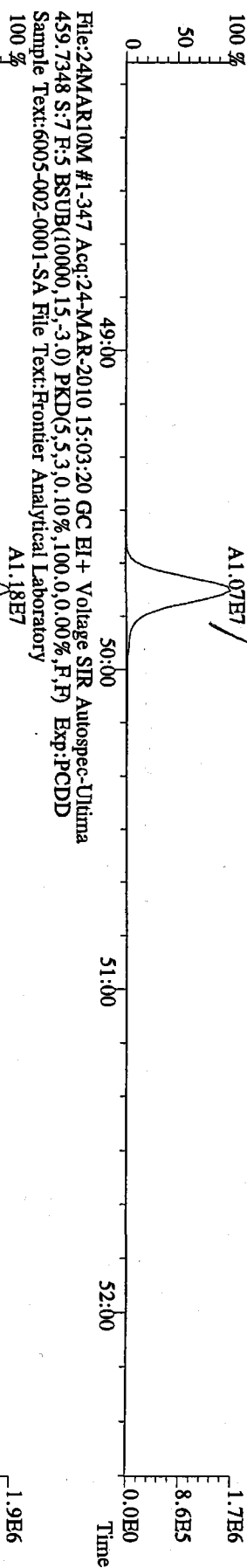


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 430.9728 S:7 F:4 Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Fronier Analytical Laboratory
 100 %

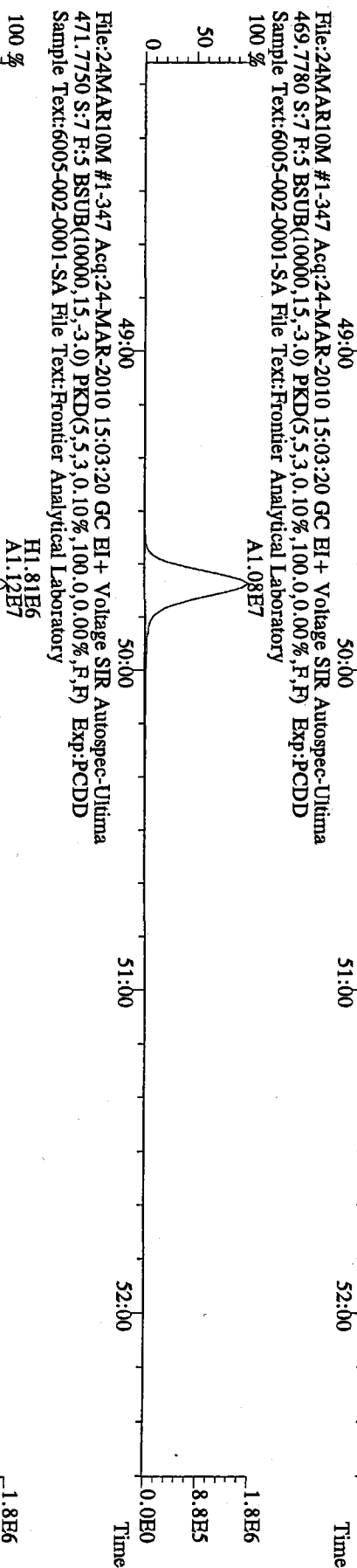


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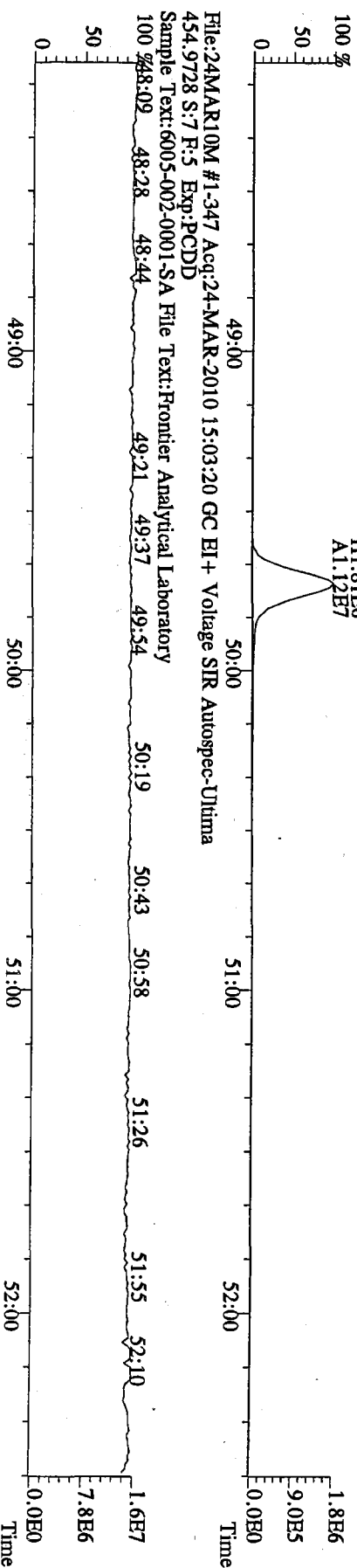
File:24MAR10M #1-347 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



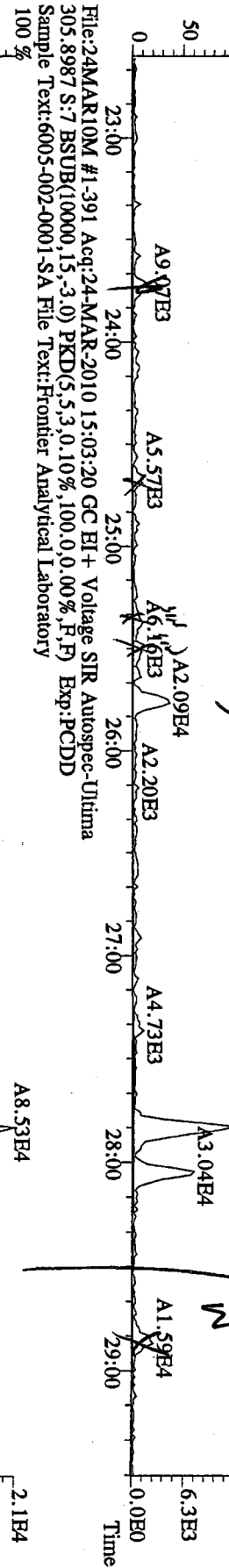
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 469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



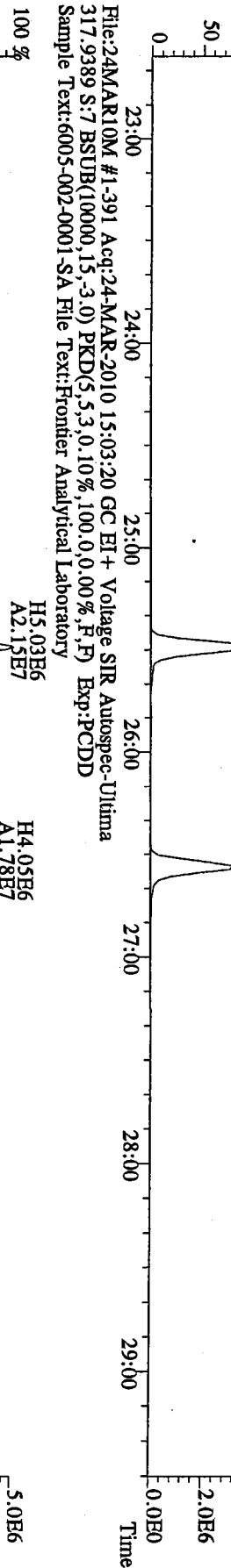
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 471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



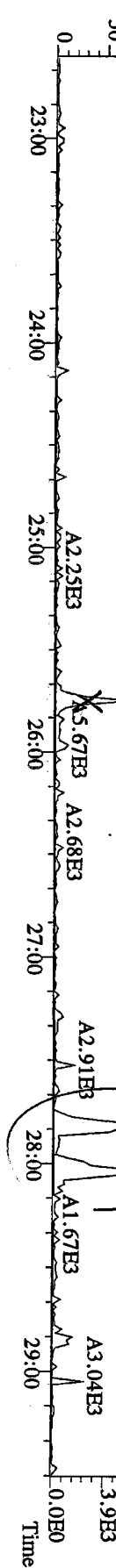
File:24MARI0M #1-391 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



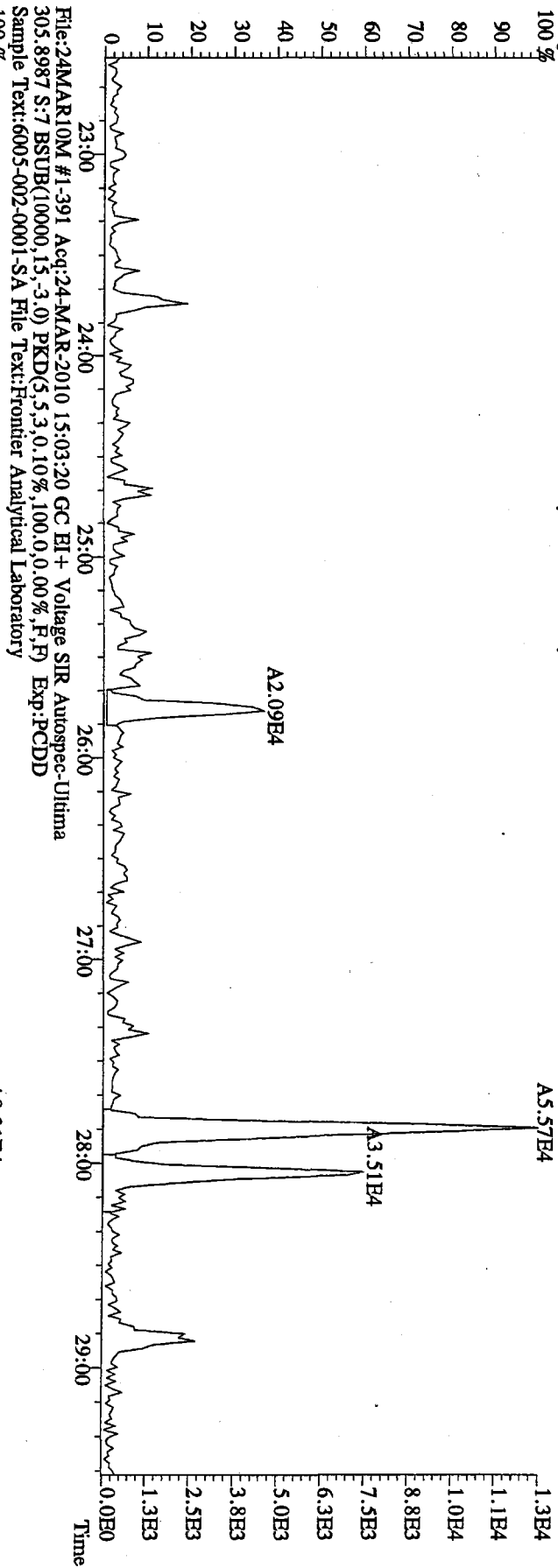
File:24MARI0M #1-391 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



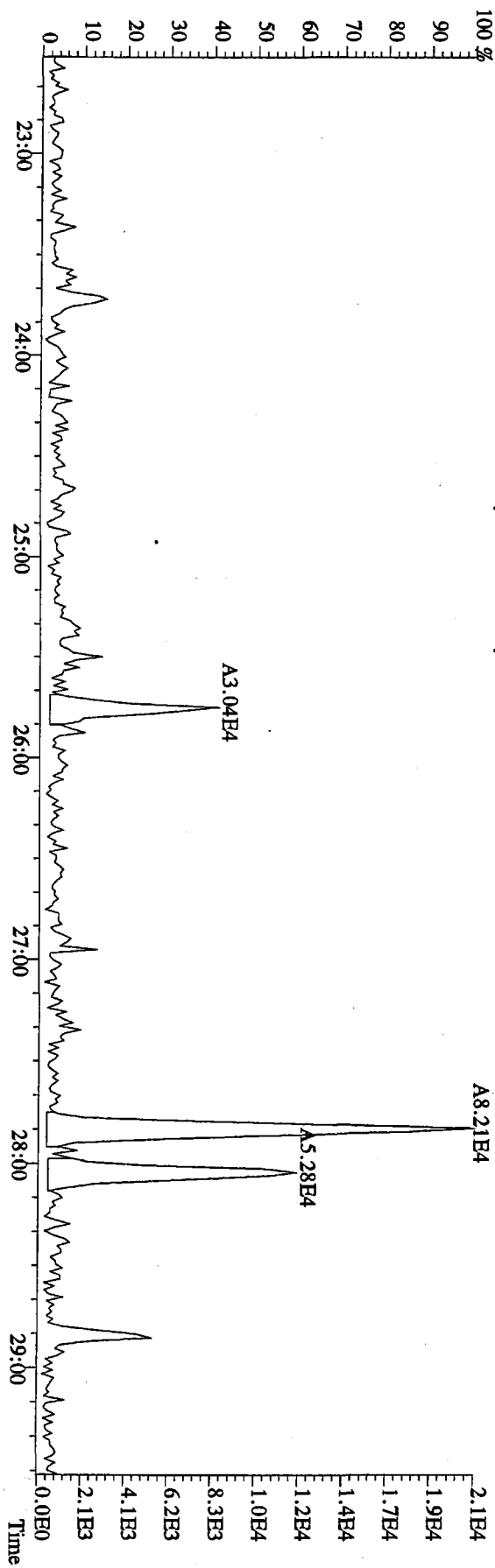
File:24MARI0M #1-391 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



File:24MAR10M #1-391 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory

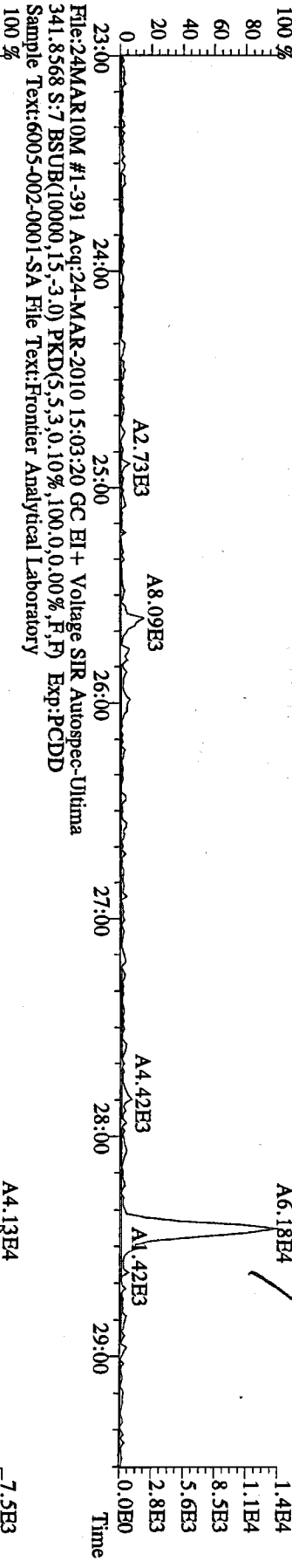


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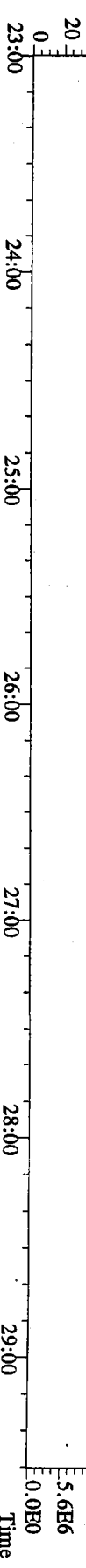
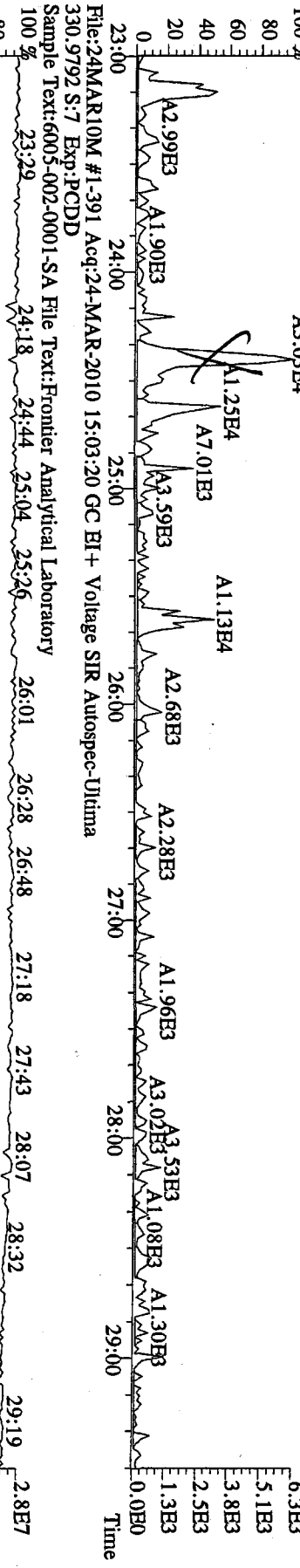


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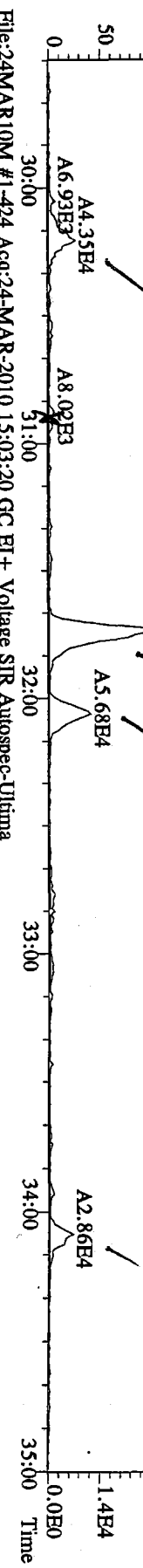
File:24MAR10M #1-391 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



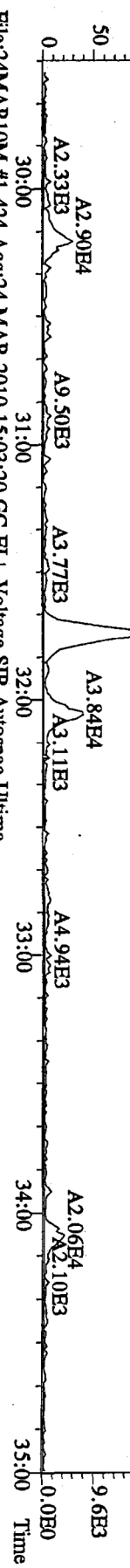
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 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



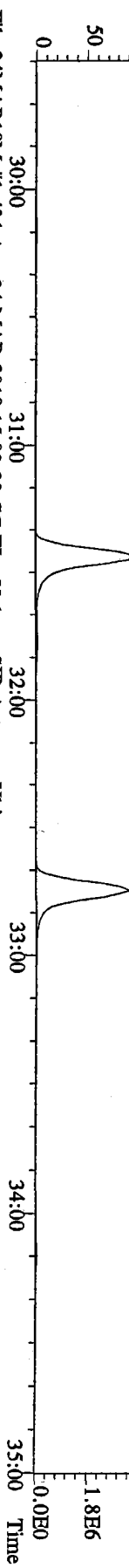
File:24MAR10M #1-424 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



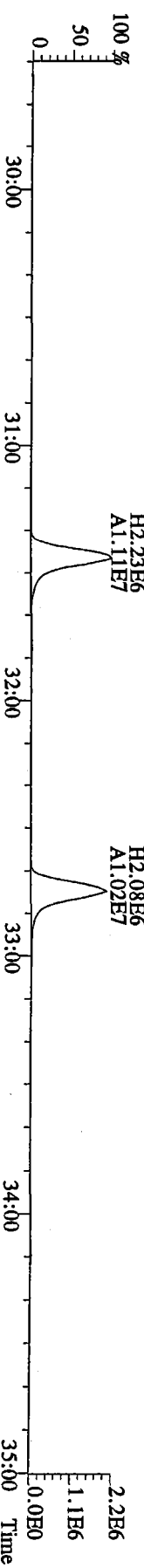
File:24MAR10M #1-424 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



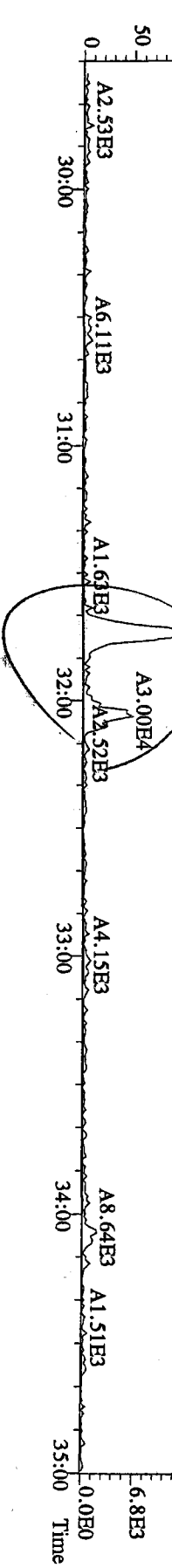
File:24MAR10M #1-424 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



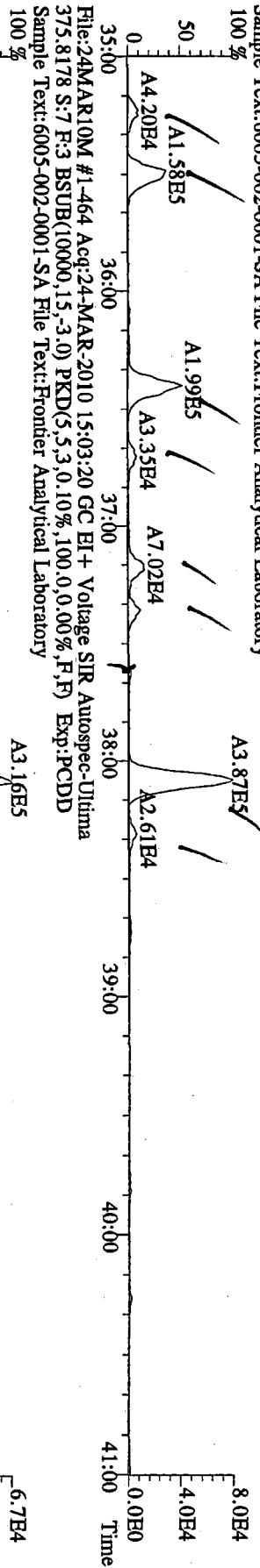
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 353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



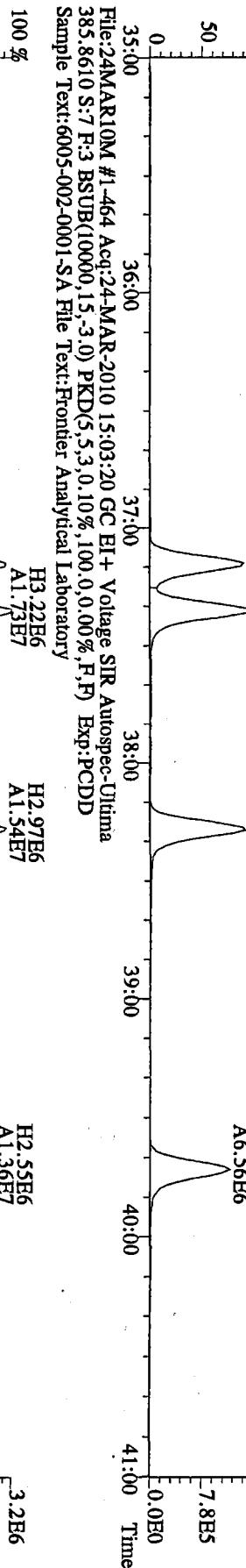
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 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



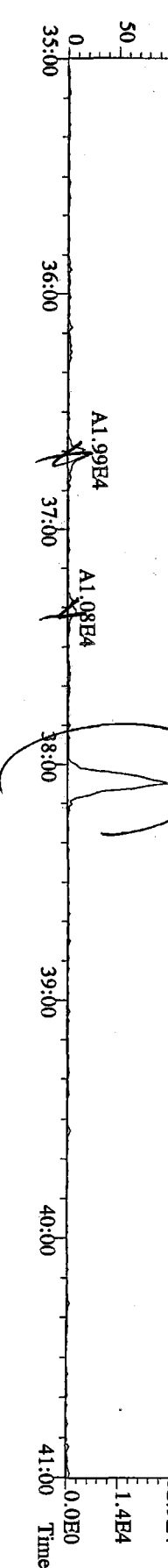
File:24MARIOM #1-464 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



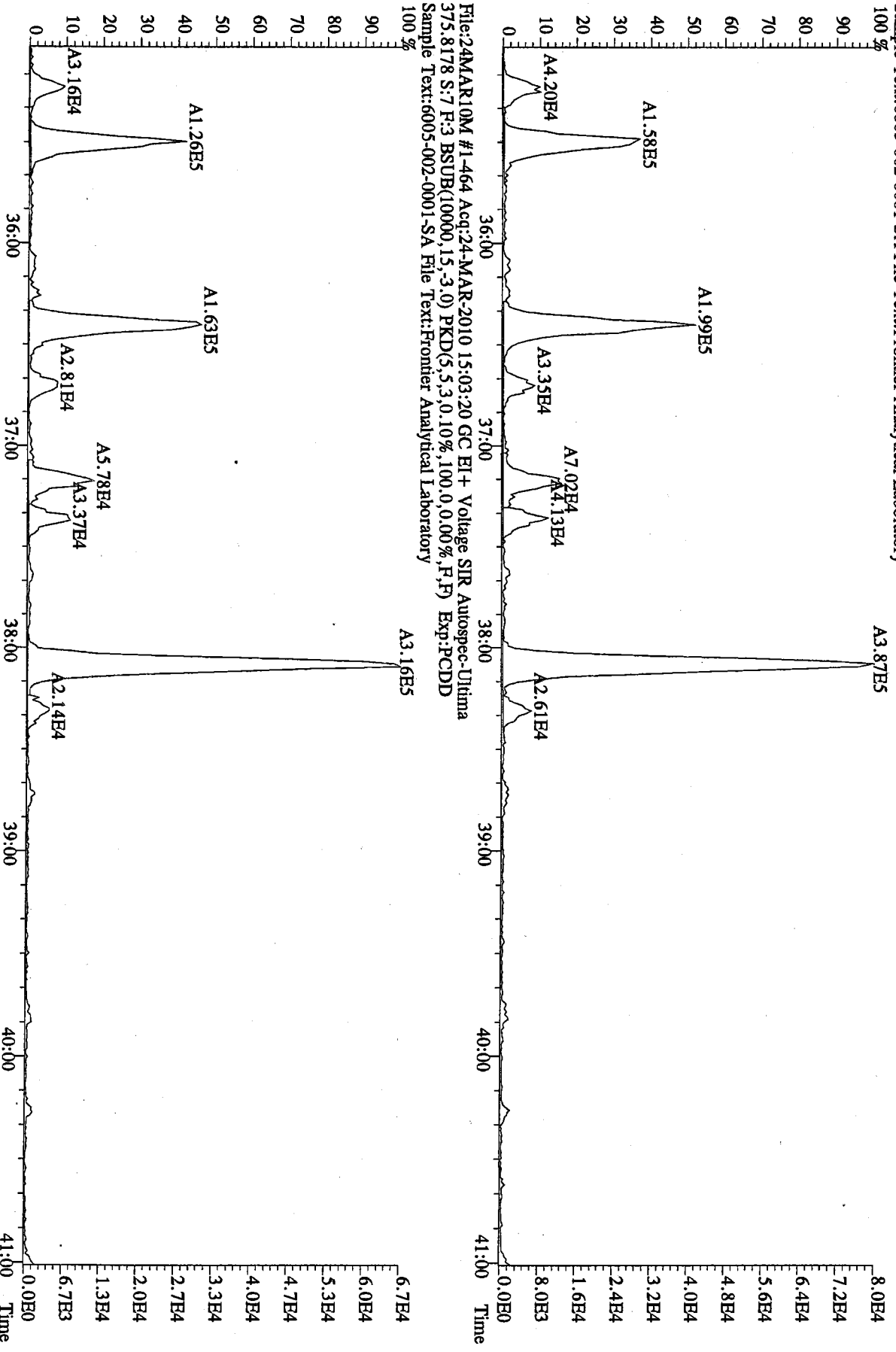
File:24MARIOM #1-464 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



File:24MARIOM #1-464 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory

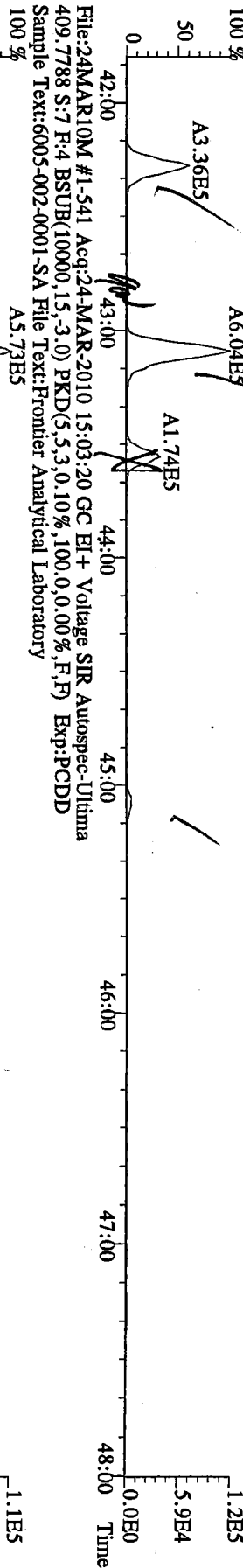


File:24MAR10M #1-464 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory

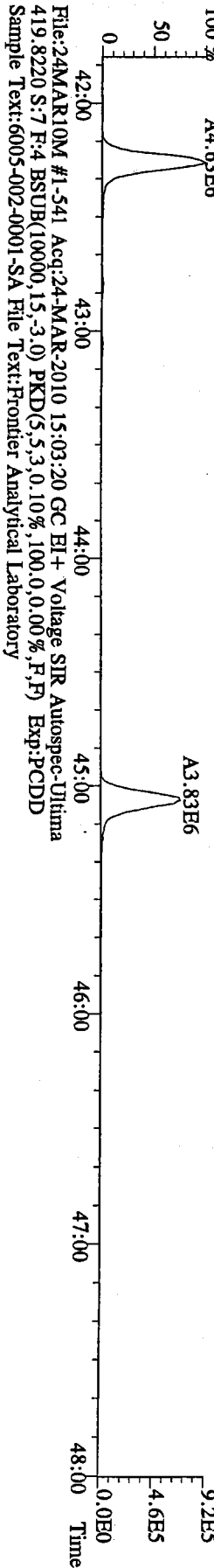


File:24MAR10M #1-464 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory

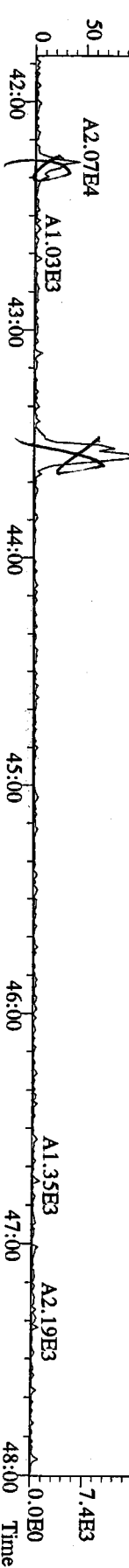
File:24MARIOM #1-541 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



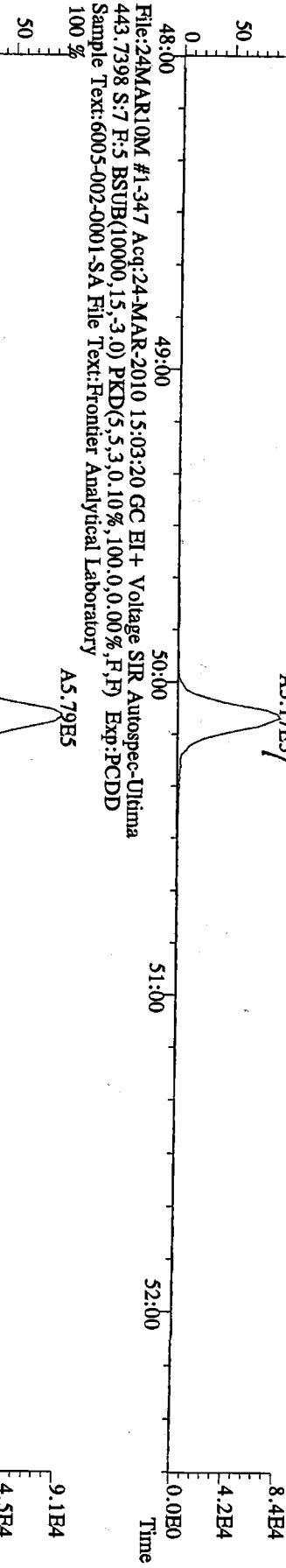
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417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



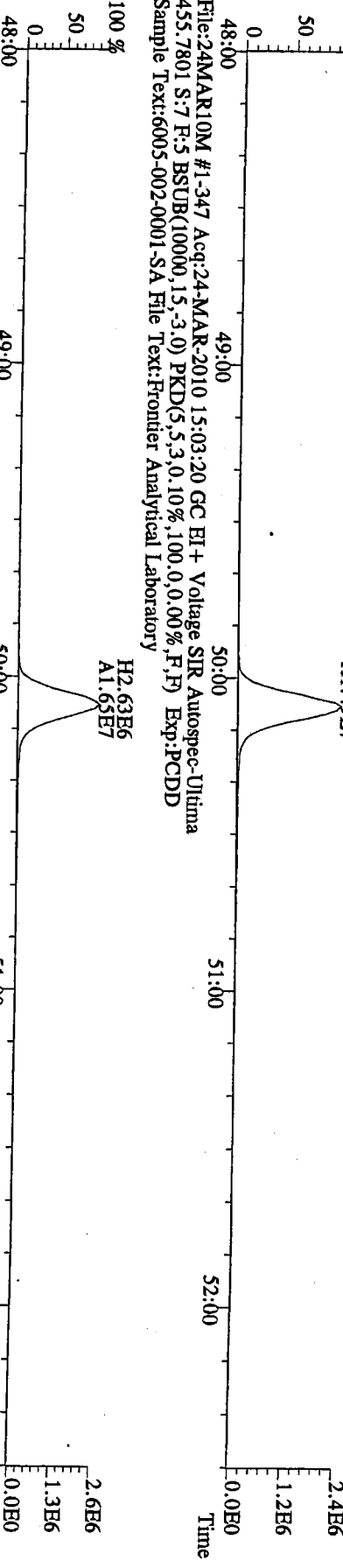
File:24MARIOM #1-541 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



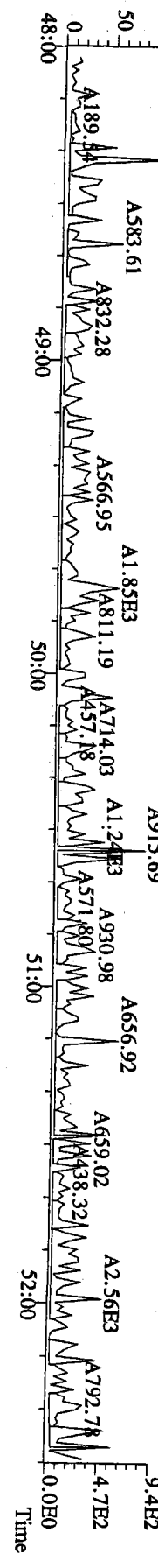
File:24MARIOM #1-347 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Utima
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-002-0001-SA File Text:Frontier Analytical Laboratory



File:24MARIOM #1-347 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Utima
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:6005-002-0001-SA File Text:Frontier Analytical Laboratory



File:24MARIOM #1-347 Acq:24-MAR-2010 15:03:20 GC EI+ Voltage SIR Autospec-Utima
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:6005-002-0001-SA File Text:Frontier Analytical Laboratory




01 15 28 : 005508

FAL ID: 6005-003-0001-SA Filename: 24MAR10M Sam:8 Acquired: 24-MAR-10 15:58:43 ICal: pcddfal3-11-18-09
 Client ID: CB1022410Comp ConCal: ST032410M1 EndCal: ST032410M2
 Results: 6005 GC Column: DB5 Amount: 0.4860

NATO 1989 Tox: 0.379
 WHO 1998 Tox: 0.250 WHO 2005 Tox: 0.279

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.02	*		2.50	630	592	2.74	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	*		2.50	486	273	2.31	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	638	544	3.55	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.34	*		2.50	638	544	4.14	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.37	*		2.50	638	544	3.81	0
1,2,3,4,6,7,8-HpCDD	5.80e+04	0.96 y	44:10	1.17	18.7	J	2.50	-	-	*	2
OCDD	3.34e+05	0.94 y	49:45	1.21	132		2.50	-	-	*	2
2,3,7,8-TCDF	*	* n	NotFnd	1.29	*		2.50	341	600	1.22	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	444	558	2.24	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.91	*		2.50	444	558	2.30	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.00	*		2.50	790	546	3.70	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	790	546	3.81	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.99	*		2.50	790	546	3.85	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.09	*		2.50	790	546	4.16	0
1,2,3,4,6,7,8-HpCDF	1.92e+04	1.01 y	42:17	1.36	4.88	J	2.50	-	-	*	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.61	*		2.50	280	213	1.83	0
OCDF	2.75e+04	0.91 y	50:07	0.84	10.7	J	2.50	-	-	*	0
13C-2,3,7,8-TCDD	1.92e+07	0.73 y	27:20	0.94	3850					93.5	0
13C-1,2,3,7,8-PeCDD	1.75e+07	1.60 y	33:10	1.02	3250					79.0	0
13C-1,2,3,4,7,8-HxCDD	1.22e+07	1.31 y	38:33	0.98	3790					92.1	0
13C-1,2,3,6,7,8-HxCDD	1.15e+07	1.31 y	38:43	0.94	3750					91.1	0
13C-1,2,3,4,6,7,8-HpCDD	1.09e+07	1.06 y	44:09	0.90	3720					90.5	0
13C-OCDD	1.71e+07	0.97 y	49:43	0.67	7840					95.3	0
13C-2,3,7,8-TCDF	2.69e+07	0.78 y	26:34	0.88	3730					90.5	0
13C-1,2,3,7,8-PeCDF	2.53e+07	1.62 y	31:26	0.88	3500					85.1	0
13C-2,3,4,7,8-PeCDF	2.30e+07	1.61 y	32:45	0.85	3280					79.8	0
13C-1,2,3,4,7,8-HxCDF	1.84e+07	0.48 y	37:09	1.72	3270					79.5	0
13C-1,2,3,6,7,8-HxCDF	2.09e+07	0.48 y	37:20	2.00	3190					77.5	0
13C-2,3,4,6,7,8-HxCDF	1.83e+07	0.48 y	38:16	1.74	3230					78.6	0
13C-1,2,3,7,8,9-HxCDF	1.60e+07	0.49 y	39:42	1.51	3260					79.2	0
13C-1,2,3,4,6,7,8-HpCDF	1.19e+07	0.47 y	42:15	1.10	3310					80.5	0
13C-1,2,3,4,7,8,9-HpCDF	9.36e+06	0.47 y	45:03	0.85	3380					82.2	0
13C-OCDF	2.51e+07	0.91 y	50:04	1.17	6550					79.6	0
37Cl-2,3,7,8-TCDD	8.43e+06		27:21	0.97	1640					99.5	0
13C-1,2,3,4-TCDD	2.18e+07	0.74 y	26:46	-	171						0
13C-1,2,3,4-TCDF	3.39e+07	0.79 y	25:30	-	151						0
13C-1,2,3,7,8,9-HxCDD	1.34e+07	1.32 y	39:09	-	135						0
Total Tetra-Dioxins	*		NotFnd	1.02	*		2.50	630	592	2.74	0
Total Penta-Dioxins	*		NotFnd	0.96	*		2.50	486	273	2.31	0
Total Hexa-Dioxins	*		NotFnd	1.36	*		2.50	638	544	4.14	0
Total Hepta-Dioxins	1.16e+05		42:47	1.17	37.5	J	2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.29	*		2.50	341	600	1.22	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.90	*		2.50	444	558	2.30	0
Total Penta-Furans	*		NotFnd	0.90	*		2.50	444	558	2.30	0
Total Hexa-Furans	*		NotFnd	0.99	*		2.50	790	546	4.16	0
Total Hepta-Furans	3.94e+04		42:17	1.47	10.2	J	2.50	-	-	*	2

Analyst: 

Date: 3/25/10

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 14

File: 24MAR10M

S: 8 I: 1 F: 4

Acquired: 24-MAR-10 15:58:43

Total Concentration: 37.5

Unnamed Concentration: 18.829

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	2.74e+04	3.10e+04	0.88 y	5.84e+04	18.8	
44:10	2.84e+04	2.96e+04	0.96 y	5.80e+04	18.7	1,2,3,4,6,7,8-HpCDD

Totals class: Total Hepta-Furans

Entry #: 46

Run: 14

File: 24MAR10M

S: 8 I: 1 F: 4

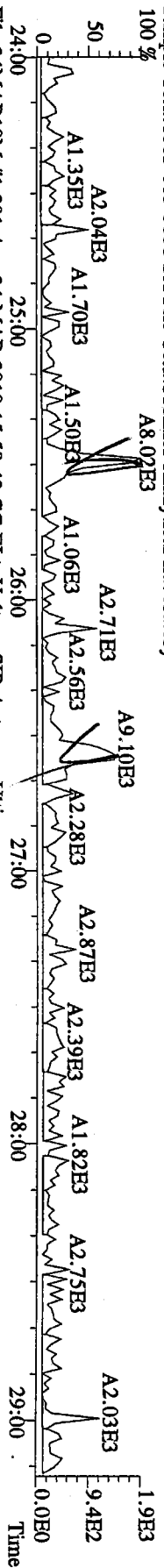
Acquired: 24-MAR-10 15:58:43

Total Concentration: 10.2

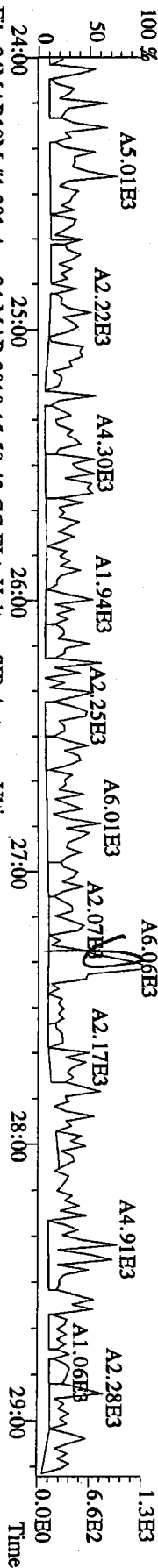
Unnamed Concentration: 5.318

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	9.64e+03	9.56e+03	1.01 y	1.92e+04	4.88	1,2,3,4,6,7,8-HpCDF
43:05	9.54e+03	1.06e+04	0.90 y	2.02e+04	5.32	

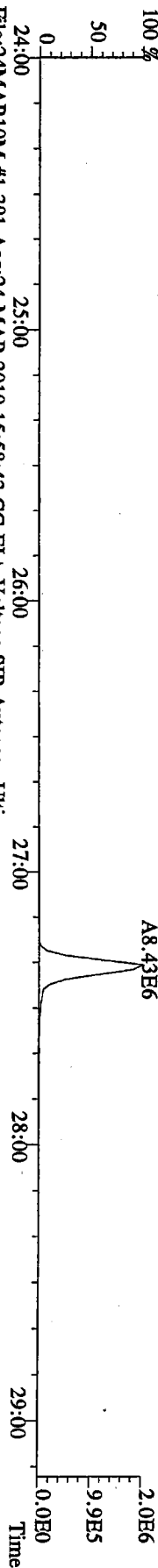
File:24MAR10M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



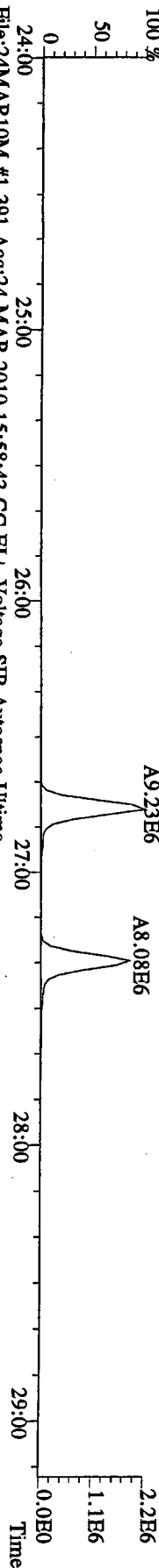
File:24MAR10M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



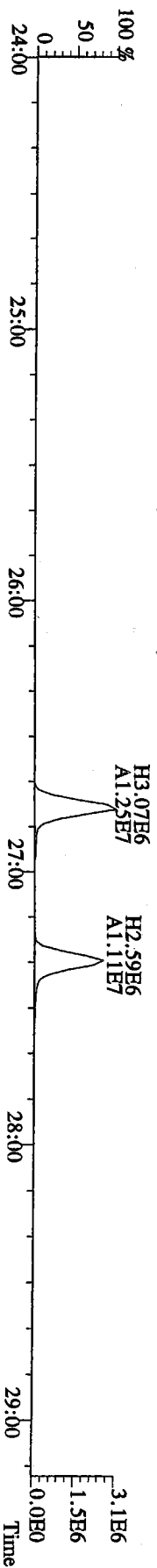
File:24MAR10M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory

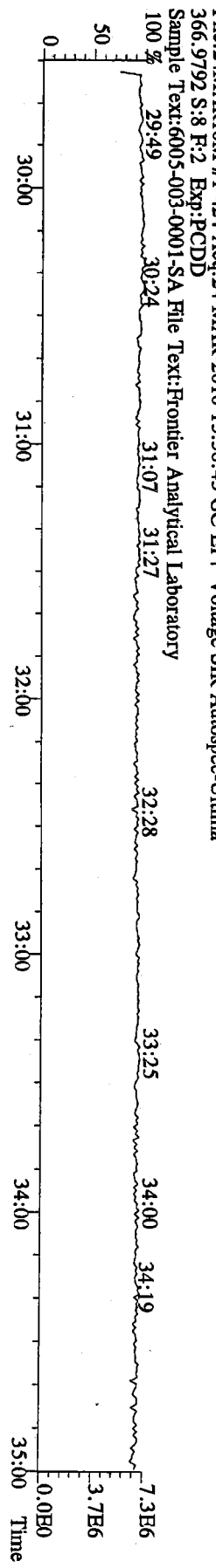
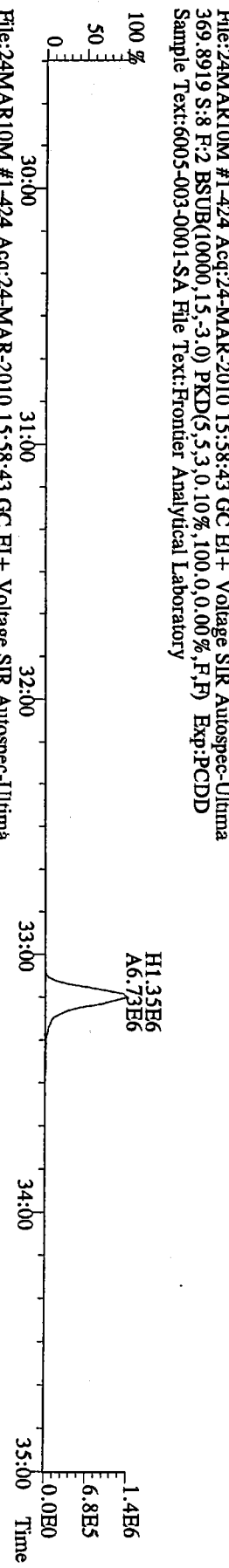
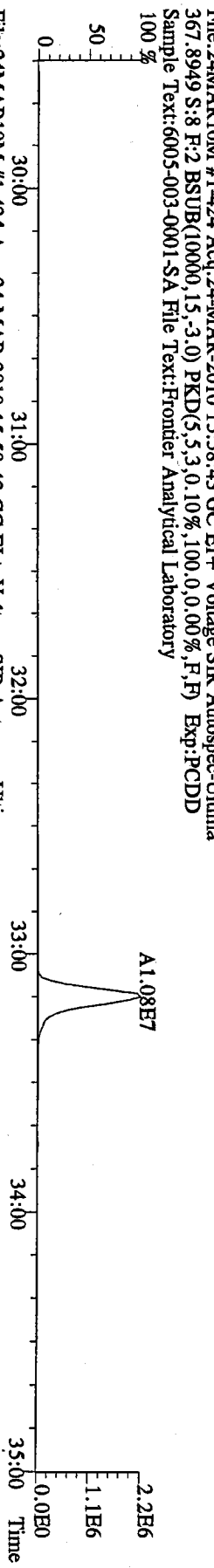
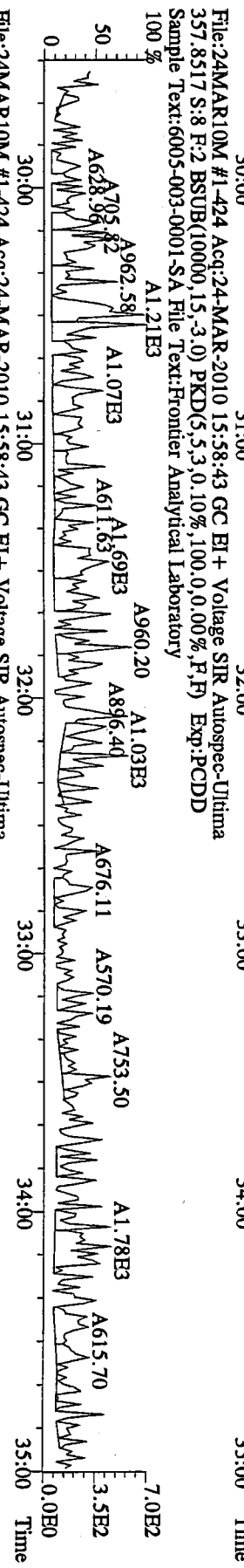
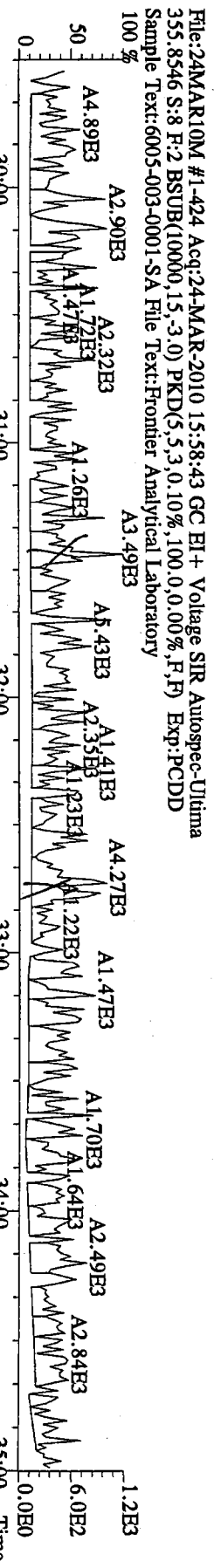


File:24MAR10M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory

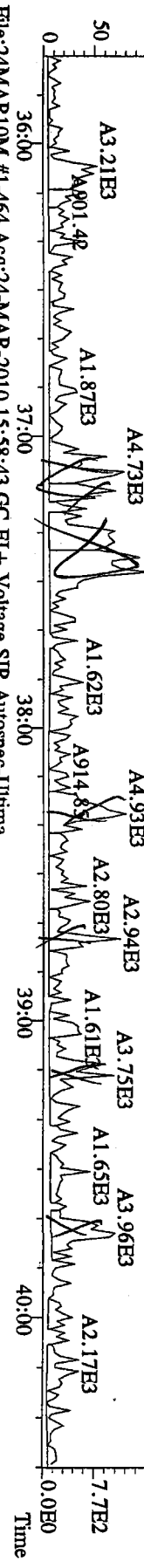


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 333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory

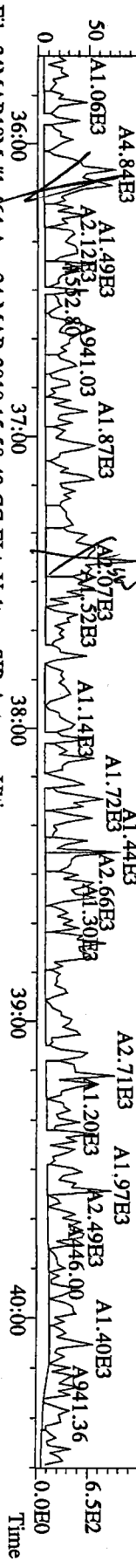




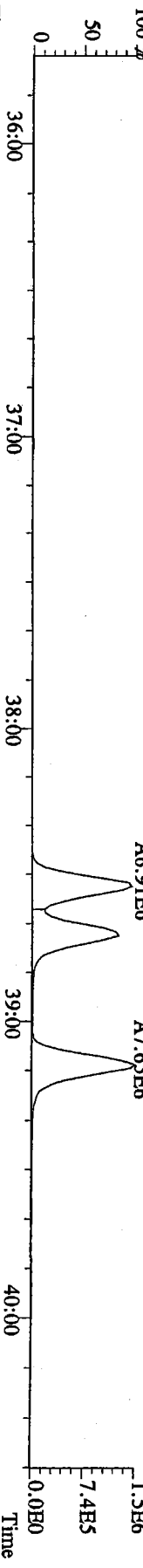
File:24MARIOM #1-464 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



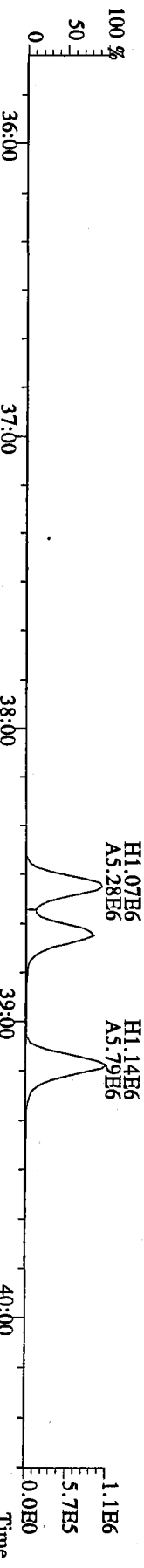
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391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



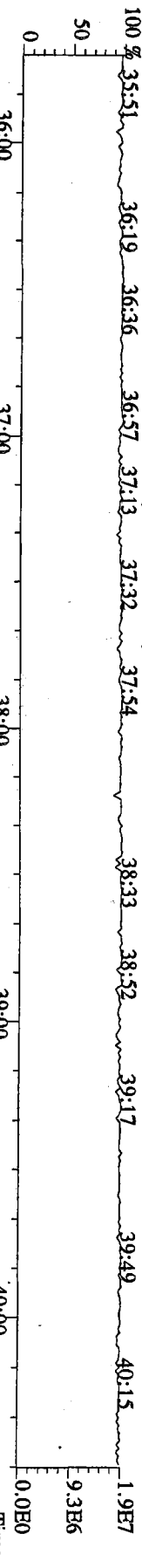
File:24MARIOM #1-464 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



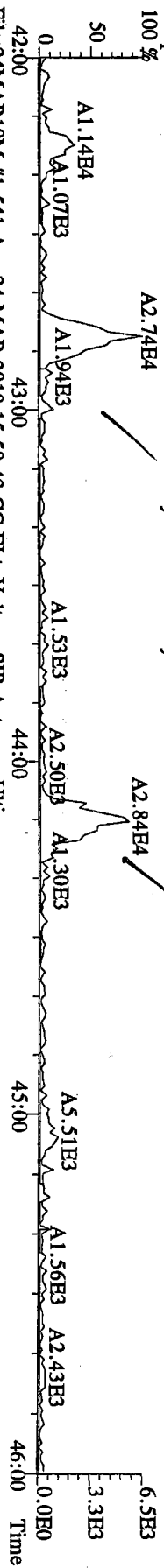
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403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



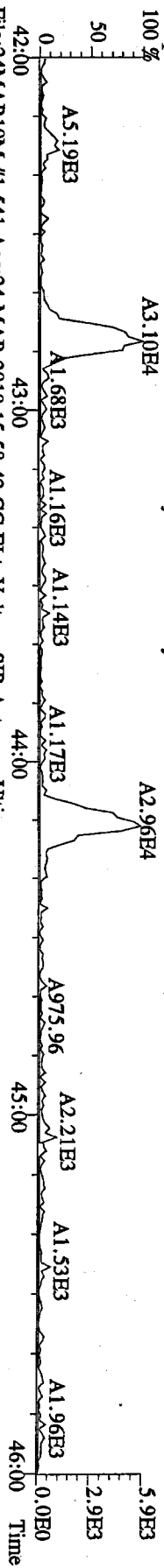
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380.9760 S:8 F:3 Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



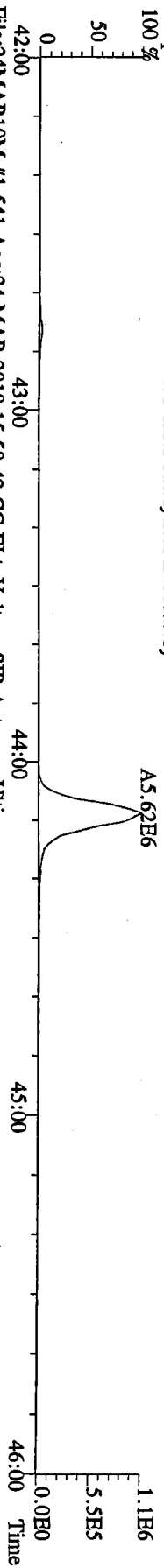
File:24MARIOM #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
 423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



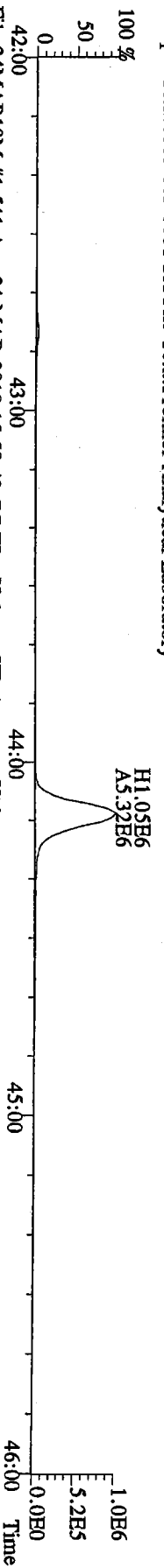
File:24MARIOM #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
 425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



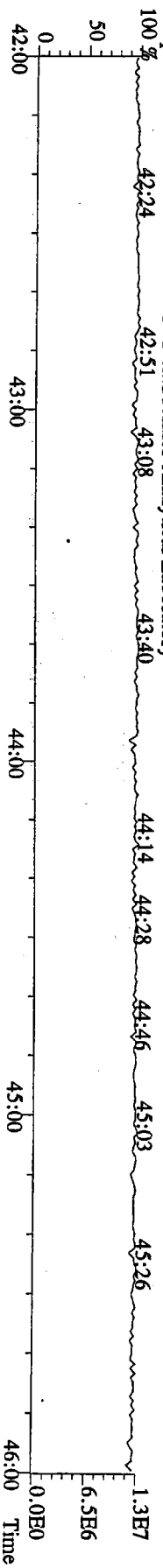
File:24MARIOM #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
 437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



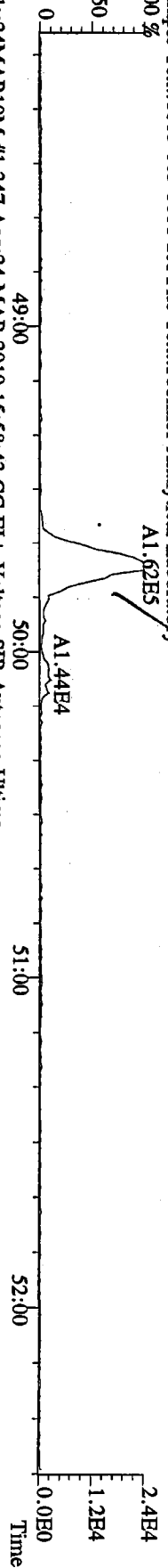
File:24MARIOM #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
 430.9728 S:8 F:4 Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



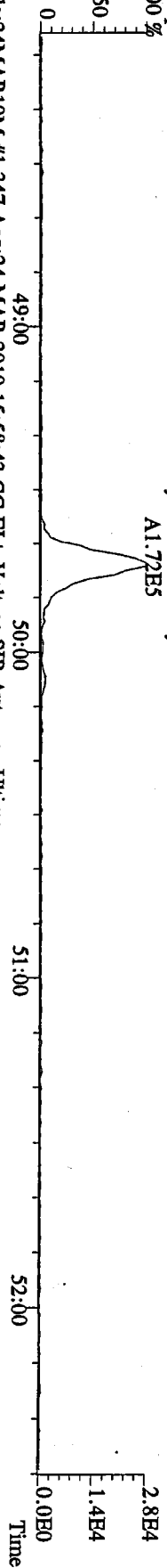
File:24MARIOM #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
 430.9728 S:8 F:4 Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



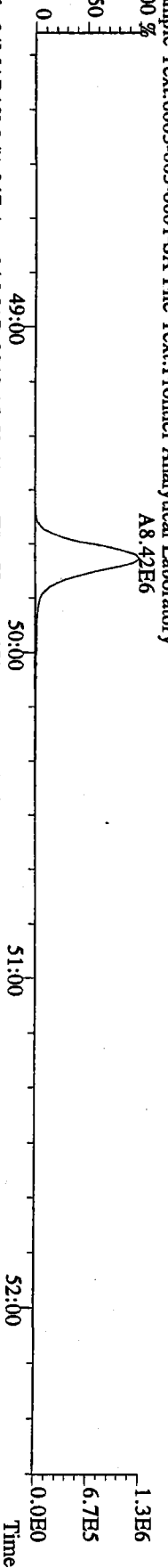
File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



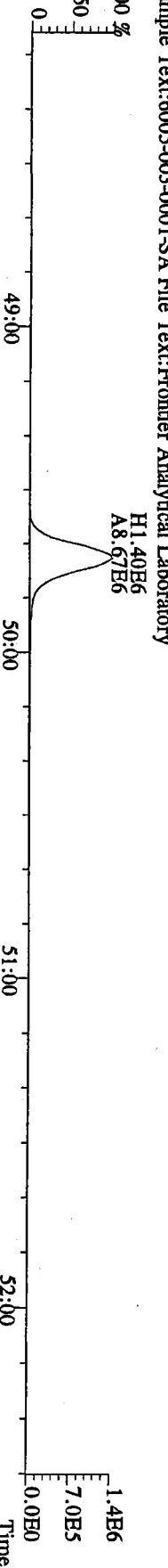
File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



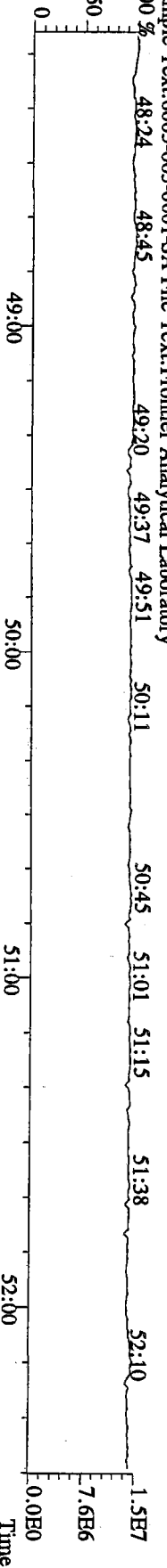
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469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



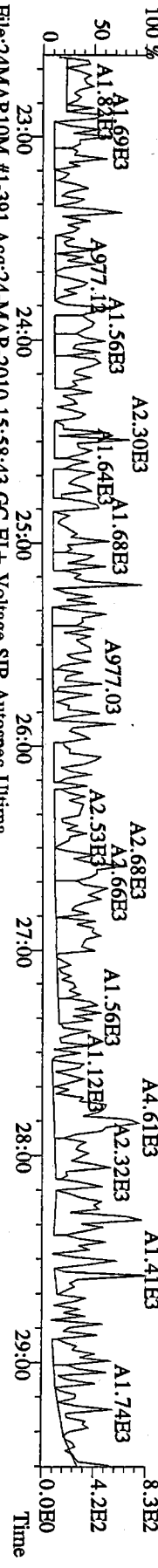
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471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



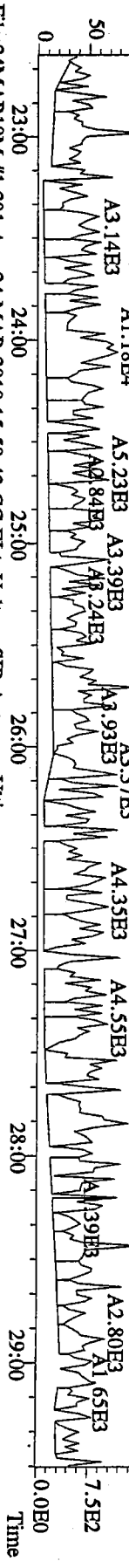
File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:8 F:5 Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:24MARI0M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



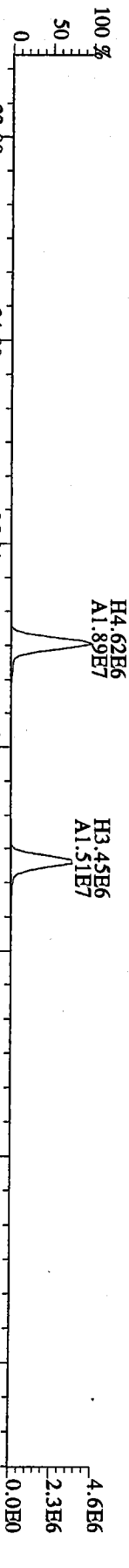
File:24MARI0M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



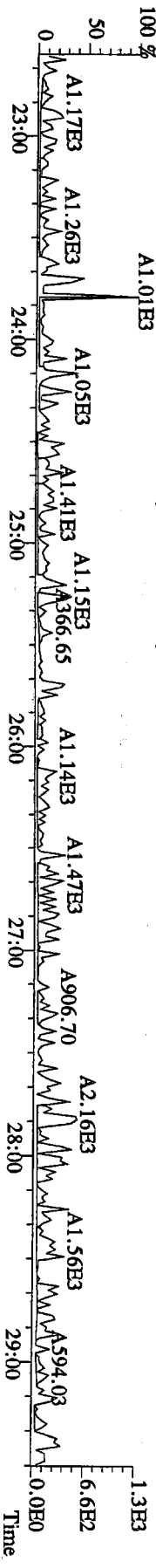
File:24MARI0M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



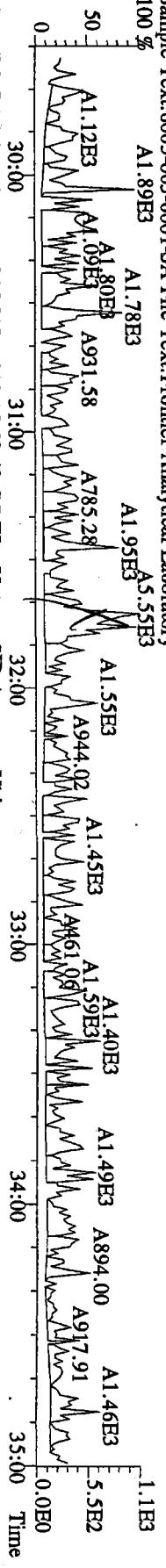
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317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



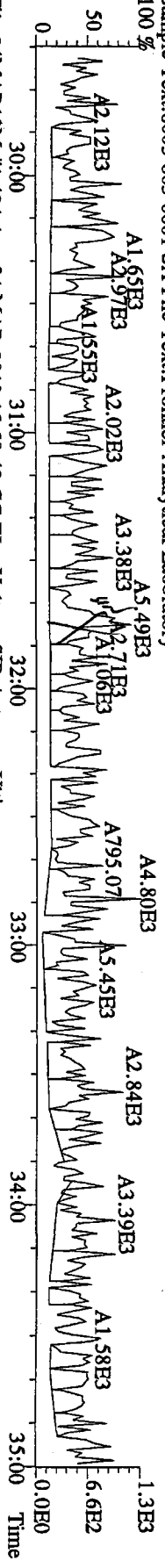
File:24MARI0M #1-391 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



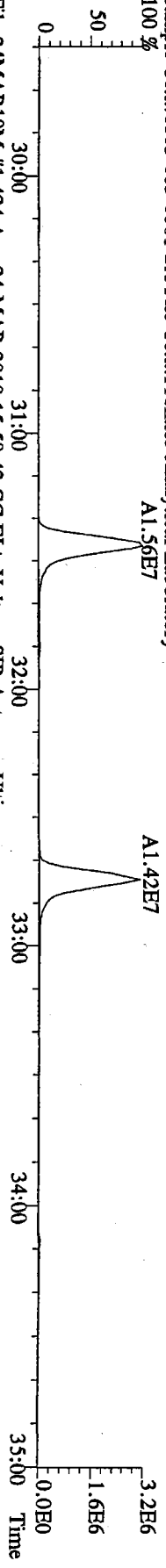
File:24MAR10M #1-424 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



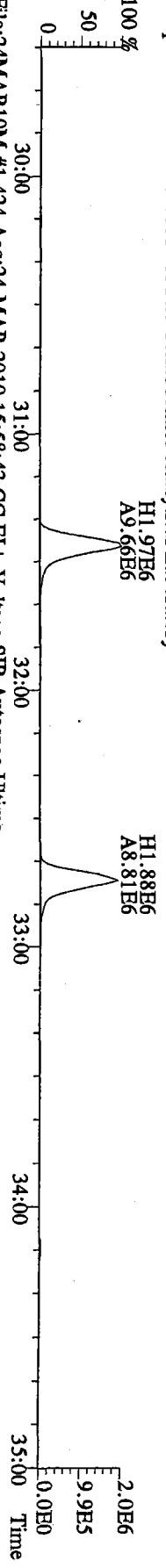
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341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



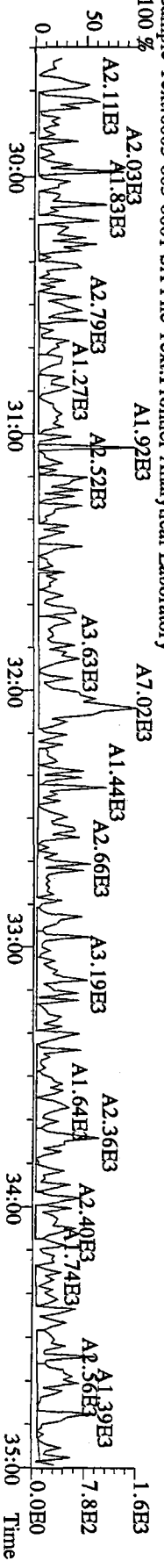
File:24MAR10M #1-424 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



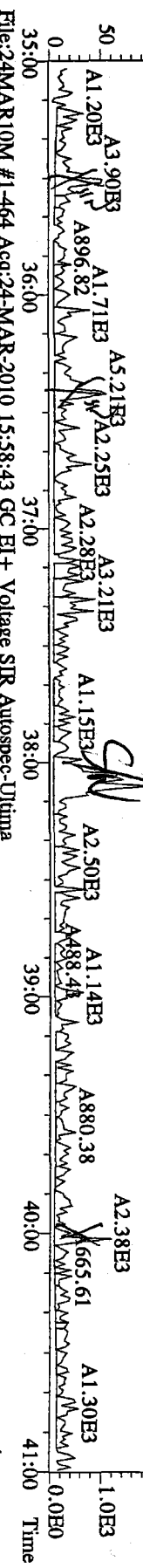
File:24MAR10M #1-424 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



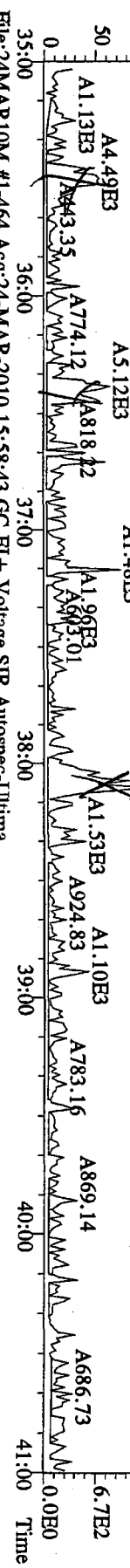
File:24MAR10M #1-424 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



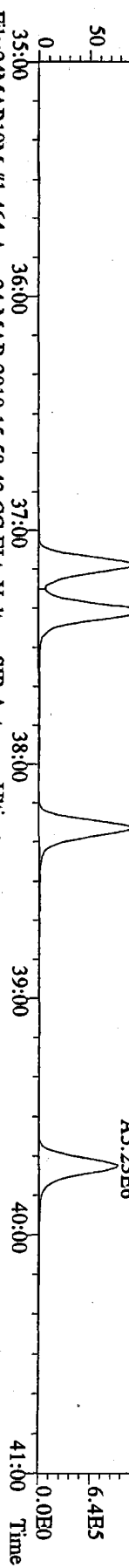
File:24MAR10M #1-464 Acq:24-MAR-2010 15:58:43 GC EI + Voltage SIR Autospec-Ultima
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



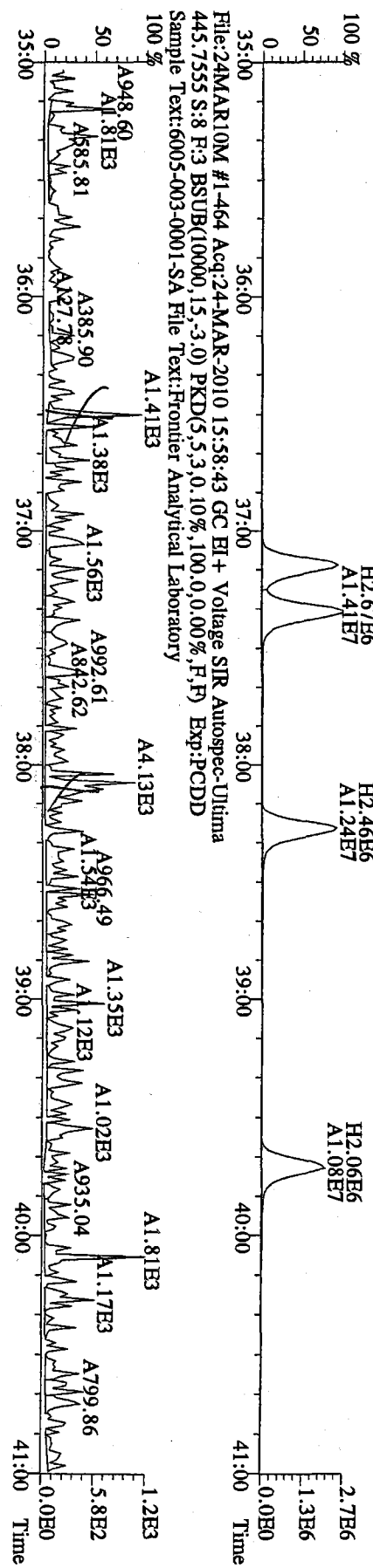
File:24MAR10M #1-464 Acq:24-MAR-2010 15:58:43 GC EI + Voltage SIR Autospec-Ultima
 375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



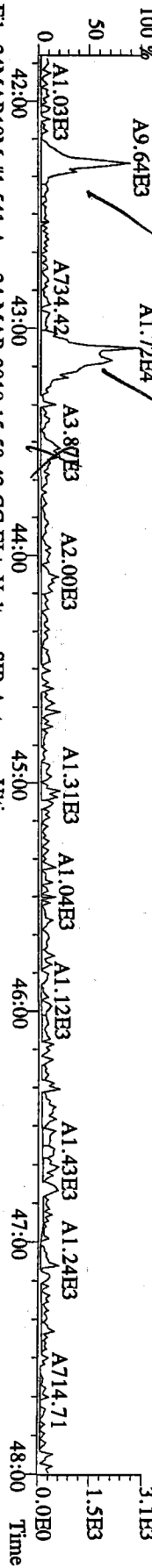
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 385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



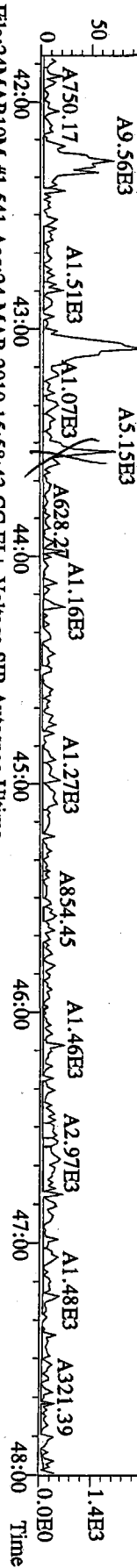
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 445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



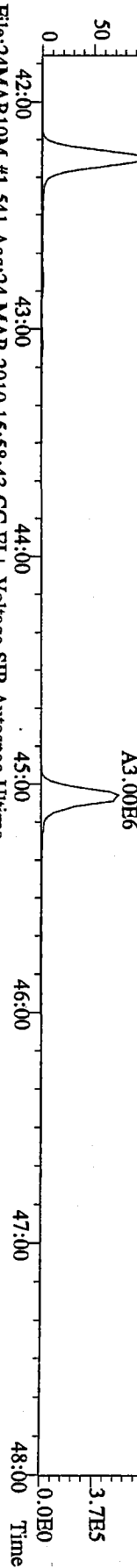
File:24MARI0M #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



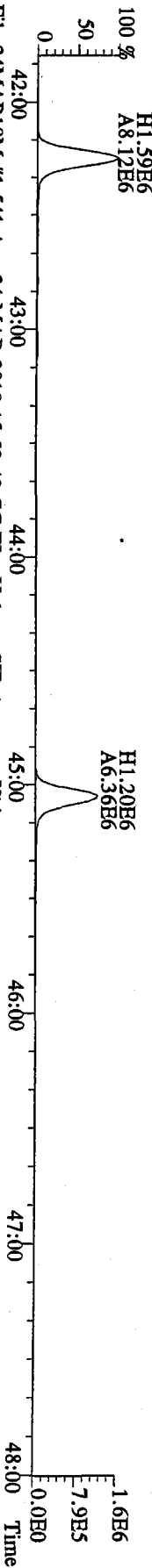
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 409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



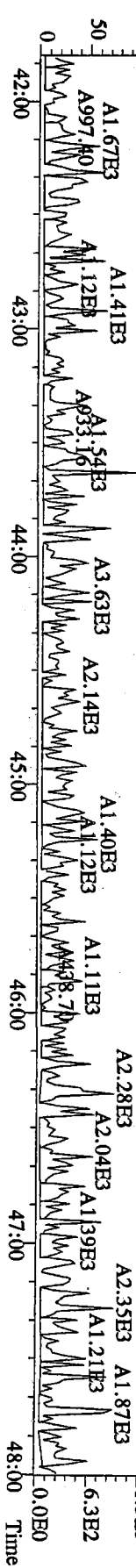
File:24MARI0M #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



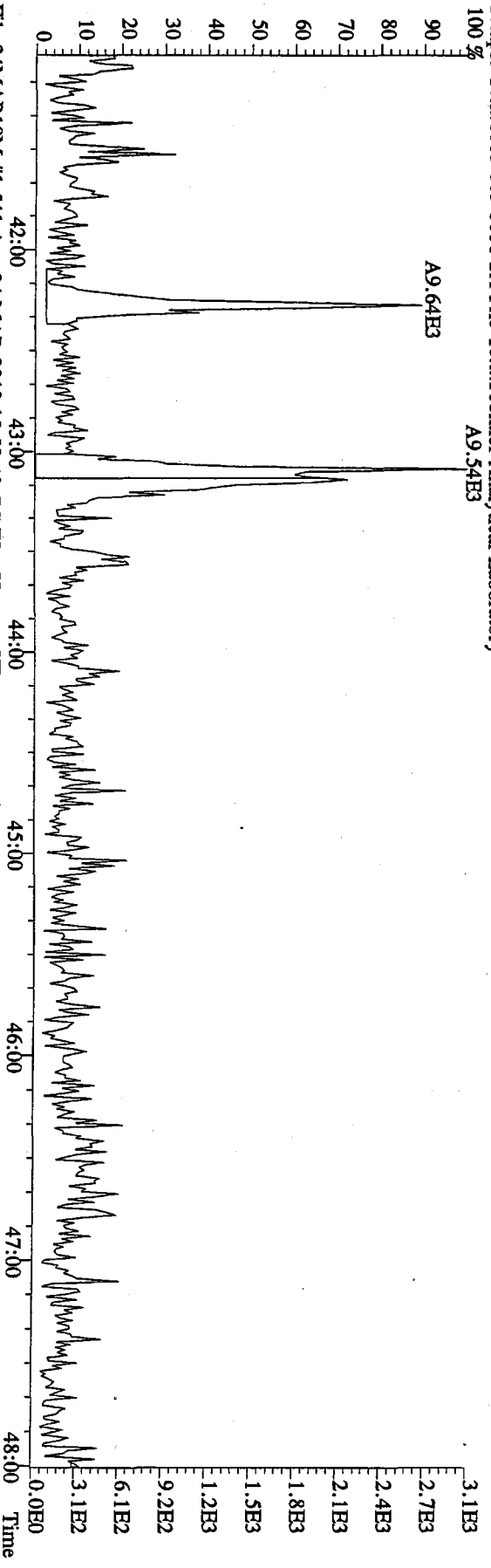
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 419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



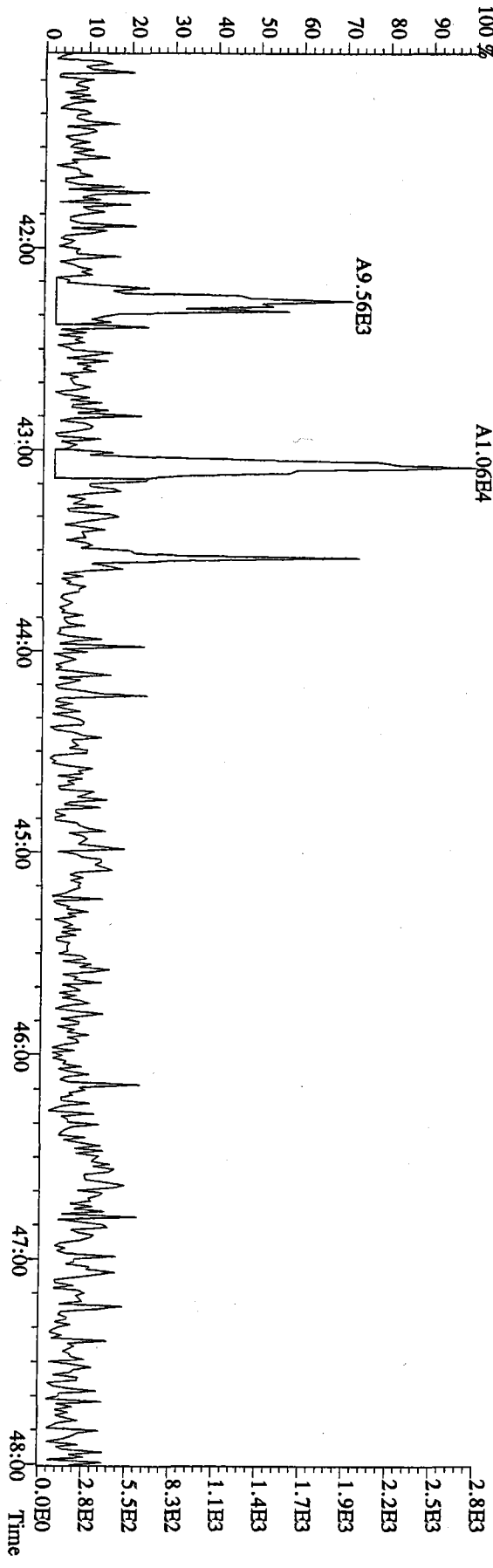
File:24MARI0M #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



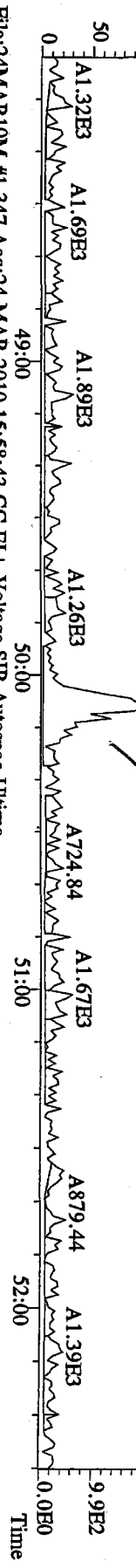
File:24MAR10M #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



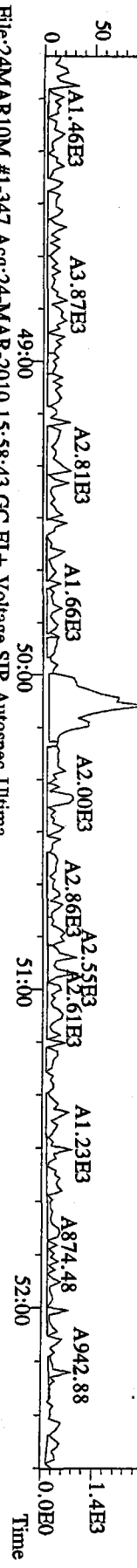
File:24MAR10M #1-541 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



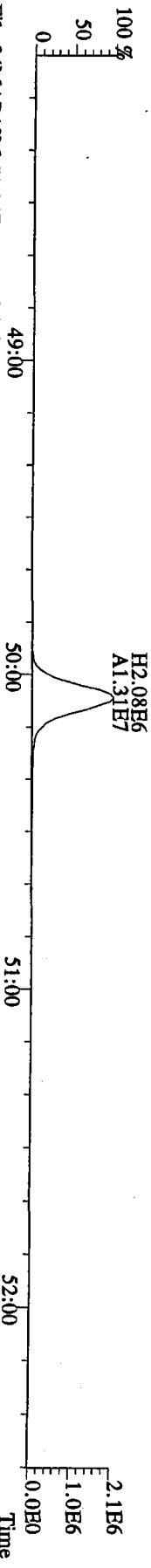
File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



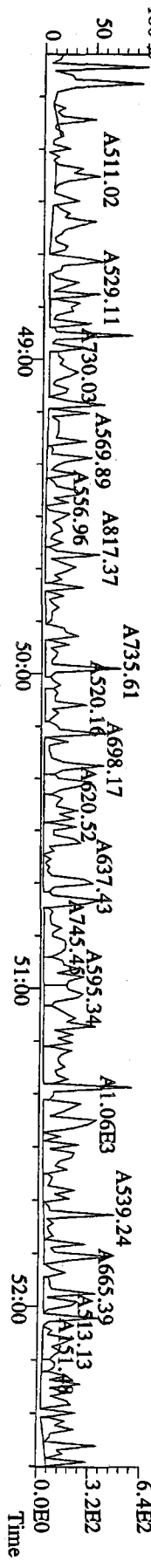
File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory




File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



File:24MAR10M #1-347 Acq:24-MAR-2010 15:58:43 GC EI+ Voltage SIR Autospec-Utima
513.6775 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-003-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.02	*		2.50	625	572	3.14	
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	*		2.50	757	425	4.03	
1,2,3,4,7,8-HxCDD	2.99e+04	1.07	y 38:33	1.37	7.93	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	7.05e+04	1.39	y 38:43	1.34	20.5	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	5.38e+04	1.08	y 39:12	1.37	14.8	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.94e+06	0.90	y 44:11	1.17	615		2.50	-	-	*	
OCDD	1.35e+07	0.92	y 49:45	1.21	5430		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.29	*		2.50	405	788	1.68	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	734	576	3.31	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.91	*		2.50	734	576	3.51	
1,2,3,4,7,8-HxCDF	1.05e+05	1.24	y 37:11	1.00	23.8	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	7.14e+04	1.31	y 37:23	0.92	16.1	J	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	4.36e+04	1.15	y 38:19	0.99	10.0	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.09	*		2.50	443	459	2.82	
1,2,3,4,6,7,8-HpCDF	5.77e+05	1.01	y 42:17	1.36	154		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	5.76e+04	1.11	y 45:06	1.61	15.8	J	2.50	-	-	*	
OCDF	9.45e+05	0.91	y 50:07	0.84	376		2.50	-	-	*	
Rec											
13C-2,3,7,8-TCDD	1.75e+07	0.74	y 27:20	0.94	3340					80.6	
13C-1,2,3,7,8-PeCDD	1.62e+07	1.56	y 33:11	1.02	2850					68.9	
13C-1,2,3,4,7,8-HxCDD	1.14e+07	1.33	y 38:33	0.98	3180					76.9	
13C-1,2,3,6,7,8-HxCDD	1.06e+07	1.34	y 38:43	0.94	3120					75.3	
13C-1,2,3,4,6,7,8-HpCDD	1.12e+07	1.06	y 44:10	0.90	3420					82.6	
13C-OCDD	1.70e+07	0.95	y 49:44	0.67	7030					84.9	
13C-2,3,7,8-TCDF	2.51e+07	0.80	y 26:34	0.88	3300					79.8	
13C-1,2,3,7,8-PeCDF	2.25e+07	1.60	y 31:27	0.88	2950					71.4	
13C-2,3,4,7,8-PeCDF	2.12e+07	1.60	y 32:46	0.85	2880					69.5	
13C-1,2,3,4,7,8-HxCDF	1.83e+07	0.49	y 37:10	1.72	2930					70.7	
13C-1,2,3,6,7,8-HxCDF	2.01e+07	0.48	y 37:21	2.00	2760					66.7	
13C-2,3,4,6,7,8-HxCDF	1.82e+07	0.48	y 38:17	1.74	2890					69.9	
13C-1,2,3,7,8,9-HxCDF	1.62e+07	0.48	y 39:44	1.51	2970					71.7	
13C-1,2,3,4,6,7,8-HpCDF	1.14e+07	0.47	y 42:16	1.10	2870					69.3	
13C-1,2,3,4,7,8,9-HpCDF	9.38e+06	0.47	y 45:05	0.85	3050					73.7	
13C-OCDF	2.47e+07	0.89	y 50:05	1.17	5800					70.0	
37Cl-2,3,7,8-TCDD	7.74e+06		27:22	0.97	1430					86.3	
13C-1,2,3,4-TCDD	2.30e+07	0.74	y 26:46	-	182						
13C-1,2,3,4-TCDF	3.59e+07	0.80	y 25:30	-	161						
13C-1,2,3,7,8,9-HxCDD	1.50e+07	1.37	y 39:10	-	152						
Total Tetra-Dioxins	*		NotFnd	1.02	*		2.50	625	572	3.14	0
Total Penta-Dioxins	*		NotFnd	0.96	*		2.50	757	425	4.03	0
Total Hexa-Dioxins	4.11e+05		36:07	1.36	114		2.50	-	-	*	6
Total Hepta-Dioxins	3.28e+06		42:48	1.17	1040		2.50	-	-	*	2
Total Tetra-Furans	2.25e+05		25:46	1.29	28.9	D,M	2.50	-	-	*	3
1st Fn. Tot Penta-Furans	8.14e+04		28:26	0.90	17.2	D,M	2.50	-	-	*	PeCDF 1
Total Penta-Furans	3.72e+05		30:14	0.90	78.8	D,M	2.50	-	-	*	96.0 4
Total Hexa-Furans	1.59e+06		35:15	0.99	365	D,M	2.50	-	-	*	8
Total Hepta-Furans	1.69e+06		42:17	1.47	456		2.50	-	-	*	4

Analyst: 

Date: 3/25/10

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 15

File: 24MAR10M

S: 9 I: 1 F: 3

Acquired: 24-MAR-10 16:54:10

Total Concentration: 114

Unnamed Concentration: 70.984

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:07	4.01e+04	3.27e+04	1.23 y	7.28e+04	20.2	
37:03	1.43e+04	1.04e+04	1.38 y	2.48e+04	6.85	
37:28	9.22e+04	6.68e+04	1.38 y	1.59e+05	44.0	
38:33	1.55e+04	1.44e+04	1.07 y	2.99e+04	7.93	1,2,3,4,7,8-HxCDD
38:43	4.09e+04	2.96e+04	1.39 y	7.05e+04	20.5	1,2,3,6,7,8-HxCDD
39:12	2.79e+04	2.59e+04	1.08 y	5.38e+04	14.8	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 15

File: 24MAR10M

S: 9 I: 1 F: 4

Acquired: 24-MAR-10 16:54:10

Total Concentration: 1040

Unnamed Concentration: 428.221

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	6.51e+05	6.97e+05	0.93 y	1.35e+06	428	
44:11	9.16e+05	1.02e+06	0.90 y	1.94e+06	615	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 15

File: 24MAR10M

S: 9 I: 1 F: 1

Acquired: 24-MAR-10 16:54:10

Total Concentration: 28.9

Unnamed Concentration: 28.904

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
25:46	1.72e+04	2.41e+04	0.71 y	4.13e+04	5.29	
27:51	4.45e+04	6.76e+04	0.66 y	1.12e+05	14.4	
28:04	2.92e+04	4.29e+04	0.68 y	7.21e+04	9.25	

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

Run: 15 File: 24MAR10M S: 9 I: 1 F: 1
Acquired: 24-MAR-10 16:54:10

Total Concentration: 17.2 Unnamed Concentration: 17.218

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
28:26	5.08e+04	3.06e+04	1.66 y	8.14e+04	17.2

Totals class: Total Penta-Furans

Entry #: 44

Run: 15

File: 24MAR10M

S: 9 I: 1 F: 2

Acquired: 24-MAR-10 16:54:10

Total Concentration: 78.8

Unnamed Concentration: 78.784

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:14	3.47e+04	2.27e+04	1.53 y	5.74e+04	12.1	
31:44	1.20e+05	7.53e+04	1.59 y	1.95e+05	41.4	
32:04	4.35e+04	3.14e+04	1.39 y	7.48e+04	15.8	
34:06	2.57e+04	1.90e+04	1.35 y	4.46e+04	9.45	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 15

File: 24MAR10M

S: 9 I: 1 F: 3

Acquired: 24-MAR-10 16:54:10

Total Concentration: 365

Unnamed Concentration: 315.550

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:15	3.68e+04	2.99e+04	1.23 y	6.67e+04	15.3	
35:31	1.40e+05	1.20e+05	1.17 y	2.60e+05	59.7	
36:24	1.84e+05	1.47e+05	1.25 y	3.31e+05	76.1	
36:43	4.75e+04	3.47e+04	1.37 y	8.22e+04	18.9	
37:11	5.80e+04	4.68e+04	1.24 y	1.05e+05	23.8	1,2,3,4,7,8-HxCDF
37:23	4.06e+04	3.08e+04	1.31 y	7.14e+04	16.1	1,2,3,6,7,8-HxCDF
38:06	3.48e+05	2.87e+05	1.21 y	6.34e+05	146	
38:19	2.33e+04	2.03e+04	1.15 y	4.36e+04	10.0	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 15

File: 24MAR10M

S: 9 I: 1 F: 4

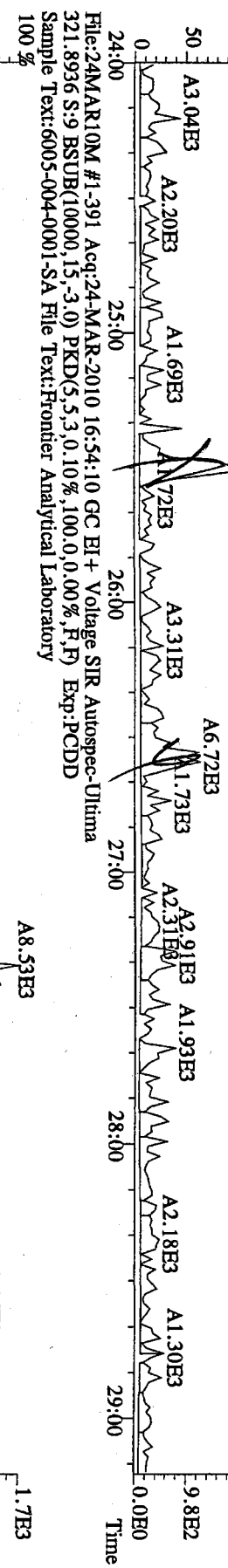
Acquired: 24-MAR-10 16:54:10

Total Concentration: 456

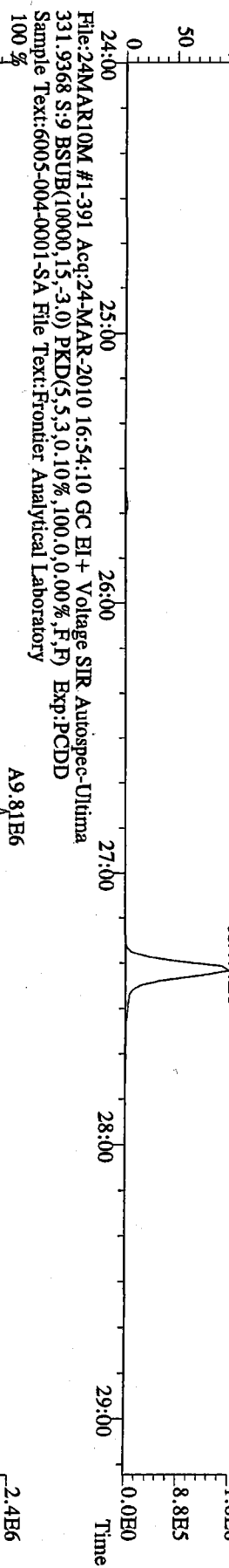
Unnamed Concentration: 286.891

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:17	2.90e+05	2.87e+05	1.01 y	5.77e+05	154	1,2,3,4,6,7,8-HpCDF
42:49	1.09e+04	1.00e+04	1.09 y	2.09e+04	5.68	
43:06	5.29e+05	5.09e+05	1.04 y	1.04e+06	281	
45:06	3.03e+04	2.73e+04	1.11 y	5.76e+04	15.8	1,2,3,4,7,8,9-HpCDF

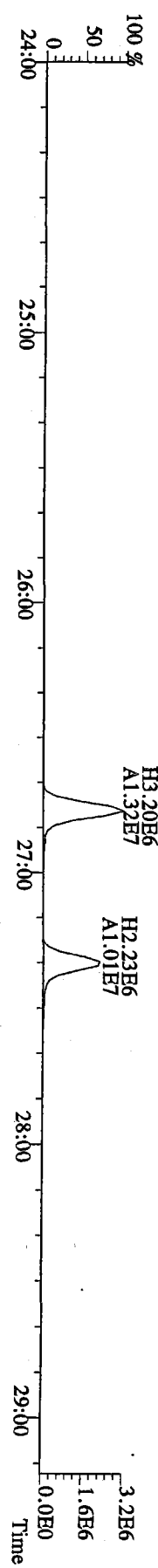
File:24MARI0M #1-391 Acq:24-MAR-2010 16:54:10 GC EI + Voltage SIR Autospec-Utima
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



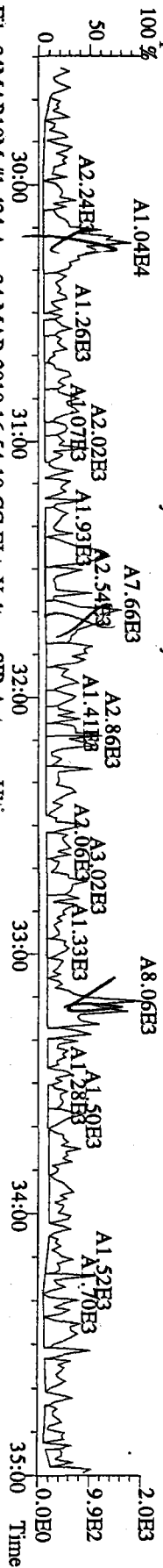
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327.8847 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



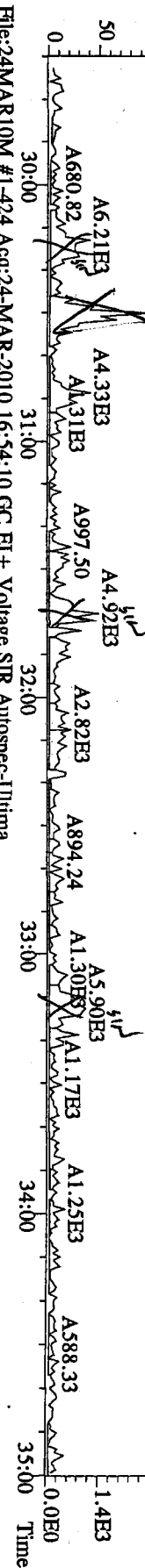
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333.9339 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



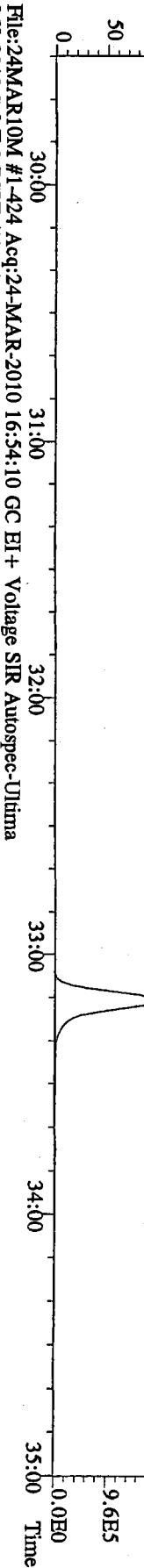
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 355.8546 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



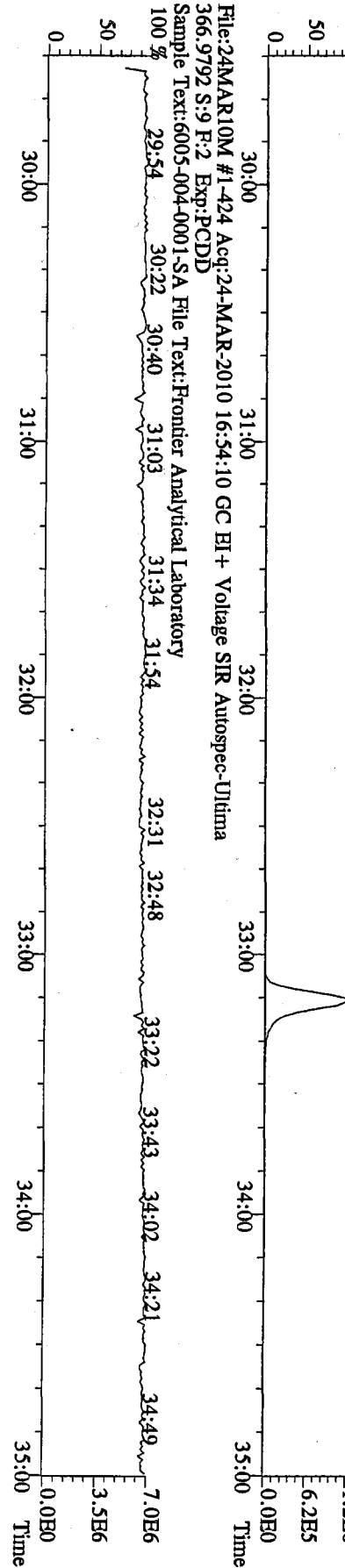
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 357.8517 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



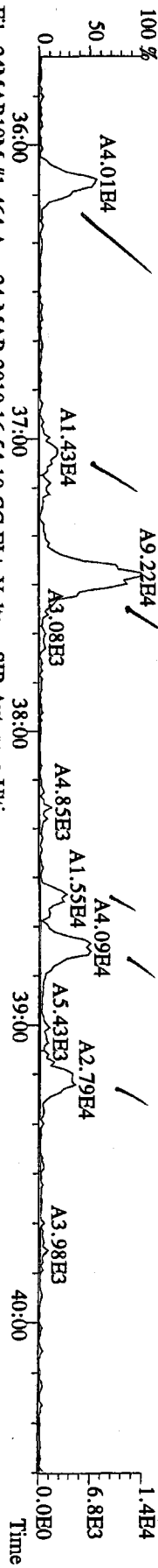
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 369.8919 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



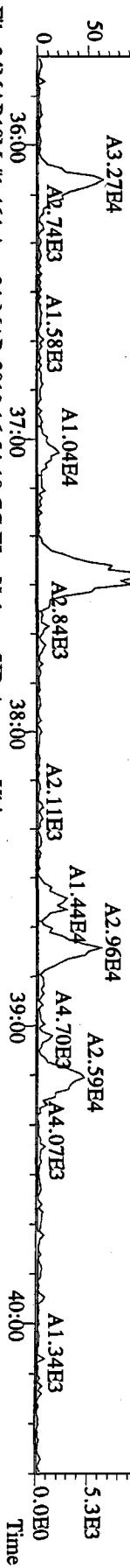
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 366.9792 S:9 F:2 Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



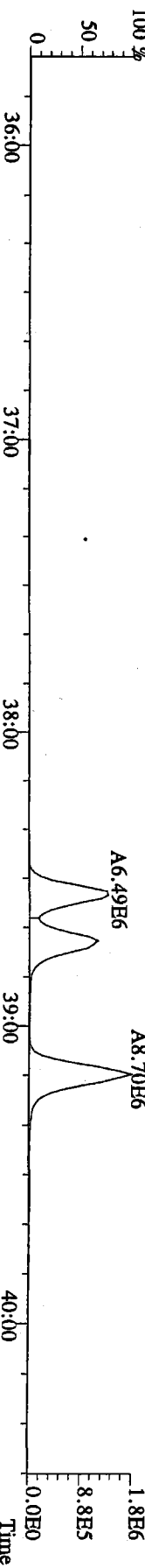
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 389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



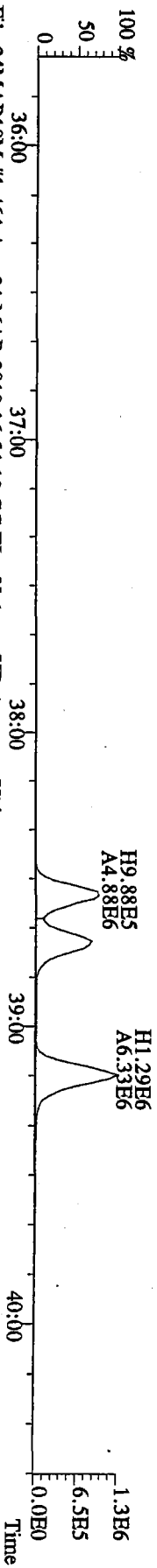
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 391.8127 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



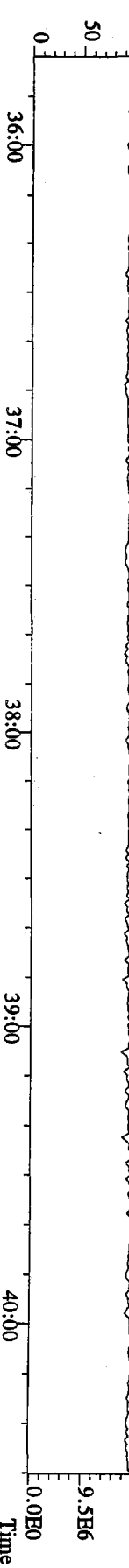
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 401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



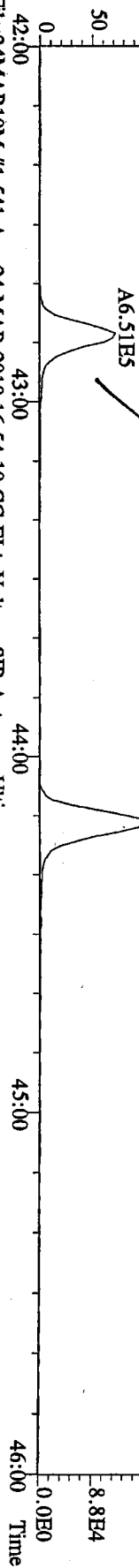
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 403.8530 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



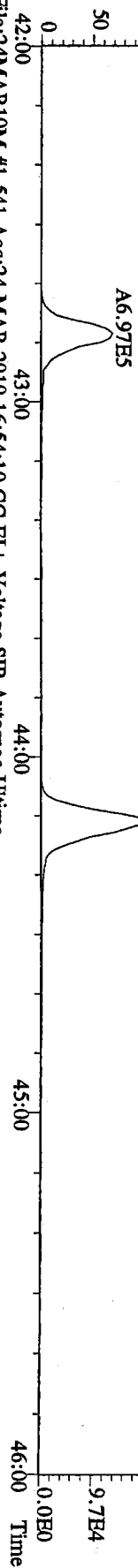
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 380.9760 S:9 F:3 Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



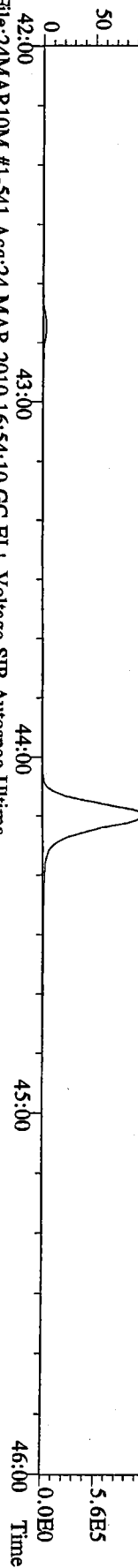
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423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



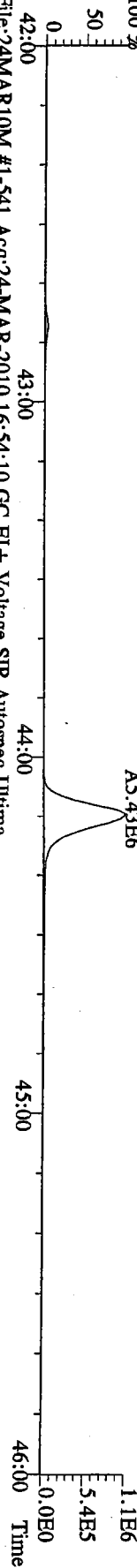
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425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



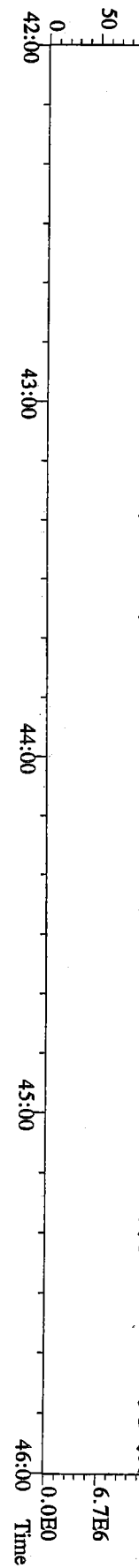
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437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



File:24MARIOM #1-541 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:9 F:4 Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



File:24MARIOM #1-541 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:9 F:4 Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



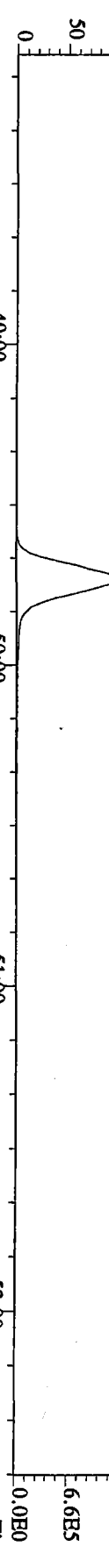
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 457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory
 100 %



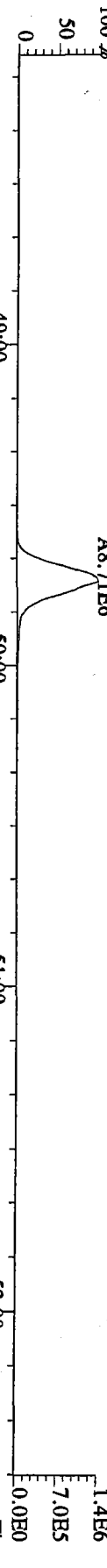
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 459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory
 100 %



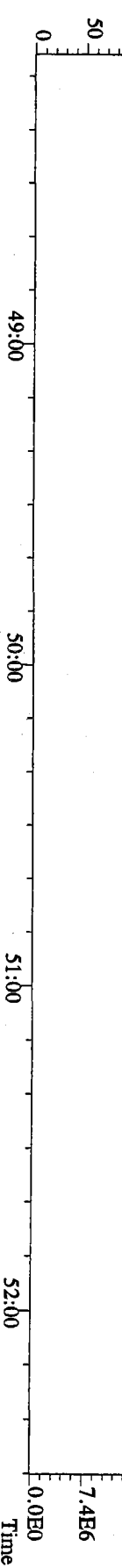
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 469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory
 100 %



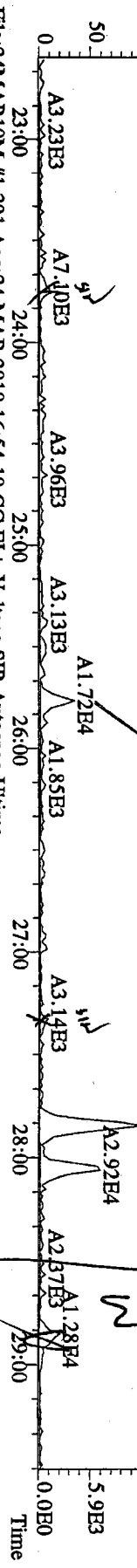
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 471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory
 100 %



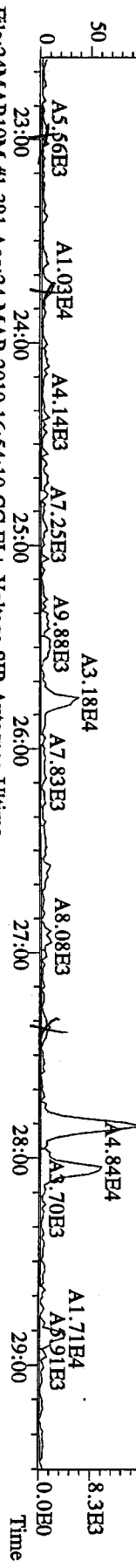
File:24MARI0M #1-347 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:9 F:5 Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory
 100 %



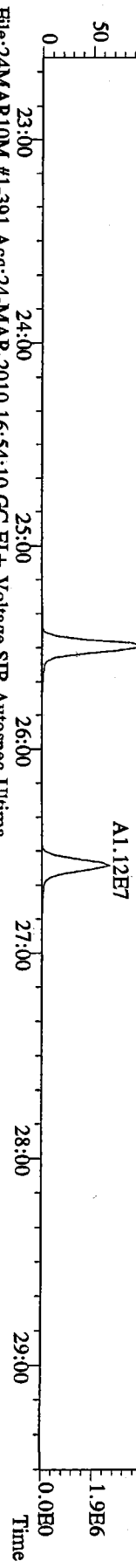
File:24MARIOM #1-391 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Utima
 303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



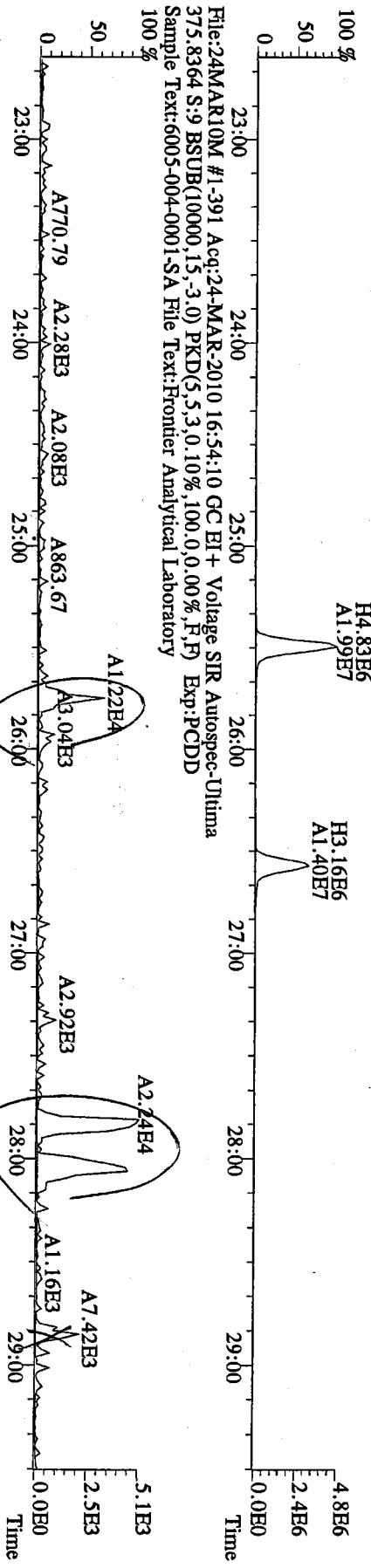
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 305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



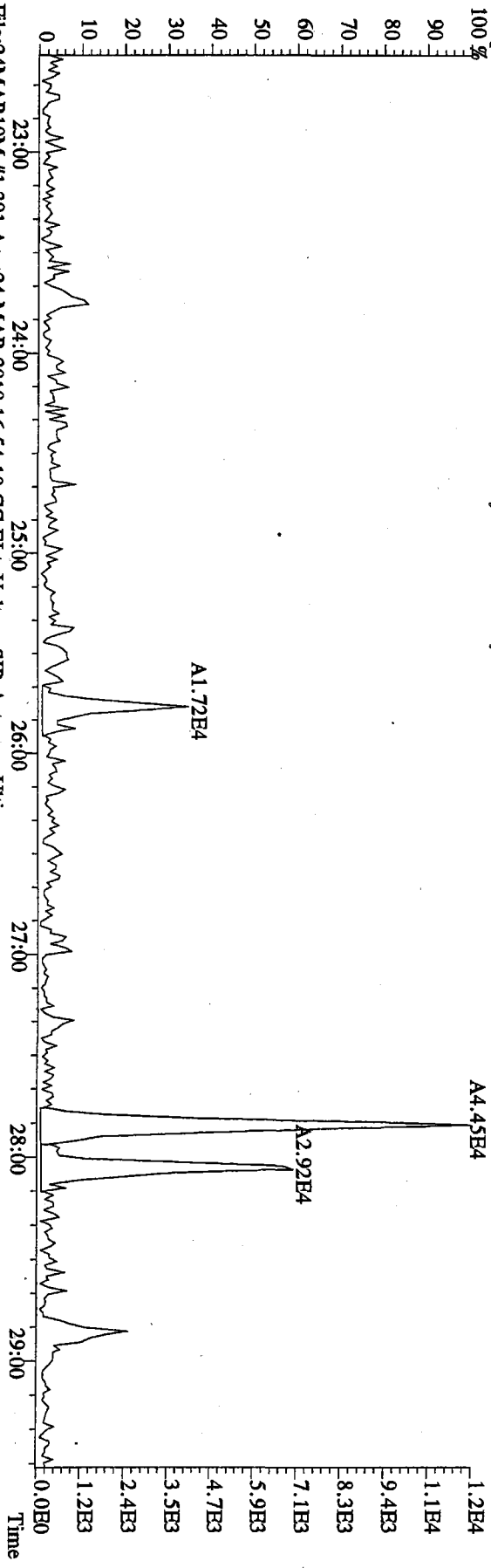
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 317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



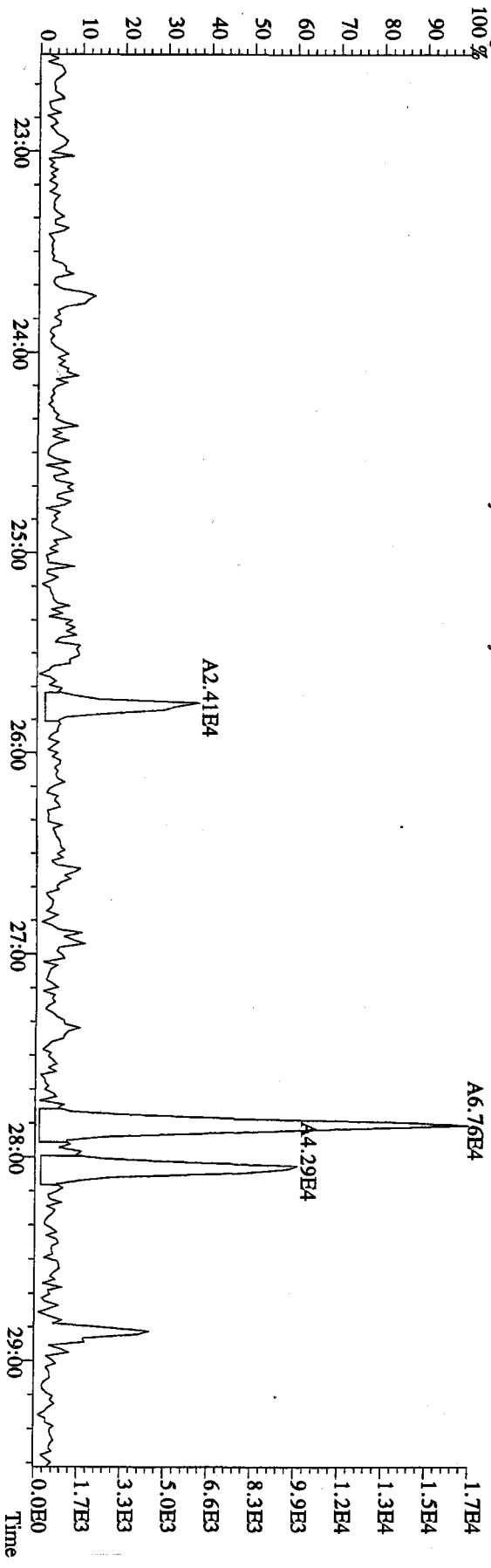
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 375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



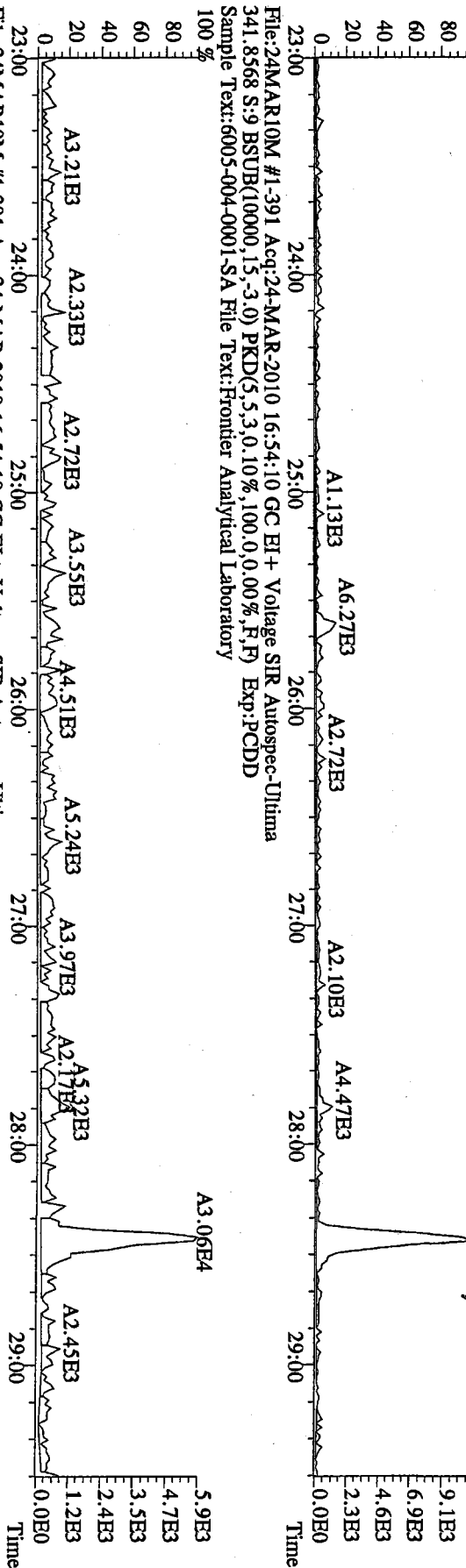
File:24MAR10M #1-391 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:9 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Fronter Analytical Laboratory



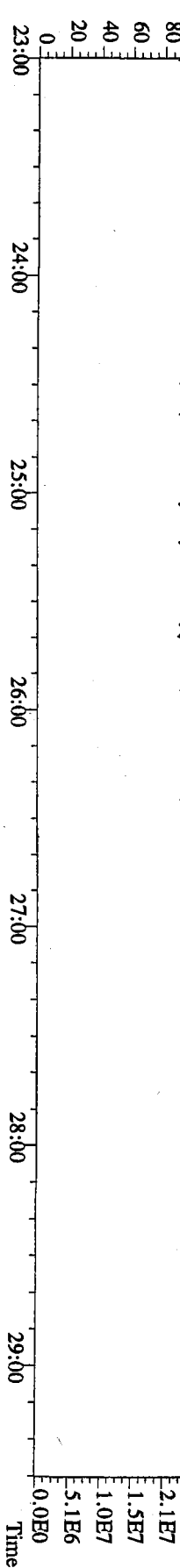
File:24MAR10M #1-391 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:9 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Fronter Analytical Laboratory



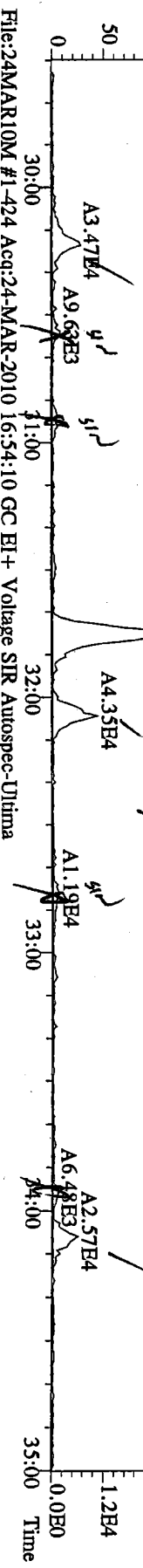
File:24MAR10M #1-391 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory
 100%



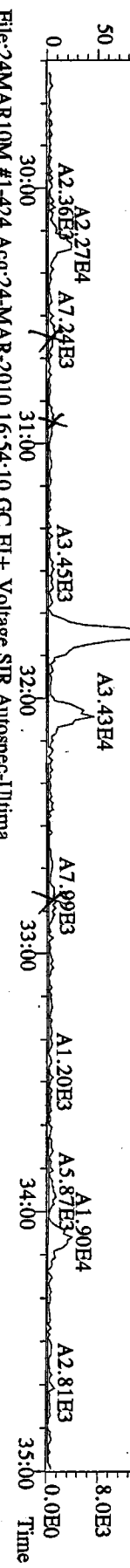
File:24MAR10M #1-391 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory
 100%



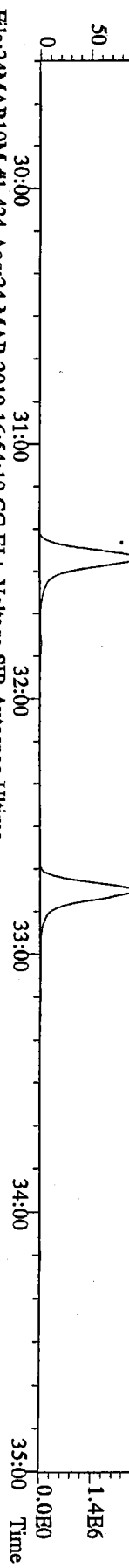
File:24MAR10M #1-424 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



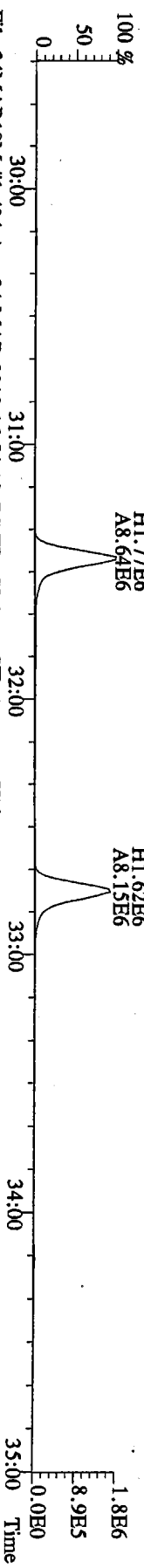
File:24MAR10M #1-424 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



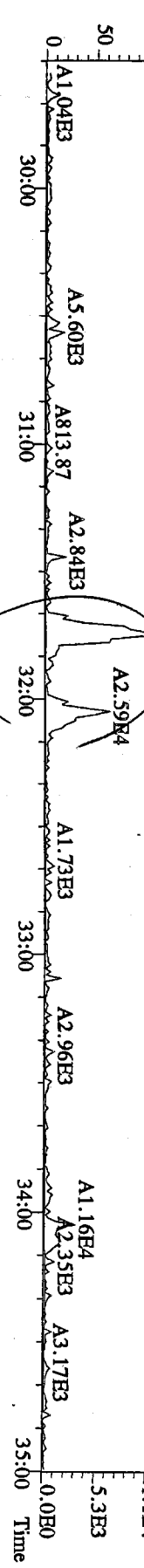
File:24MAR10M #1-424 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



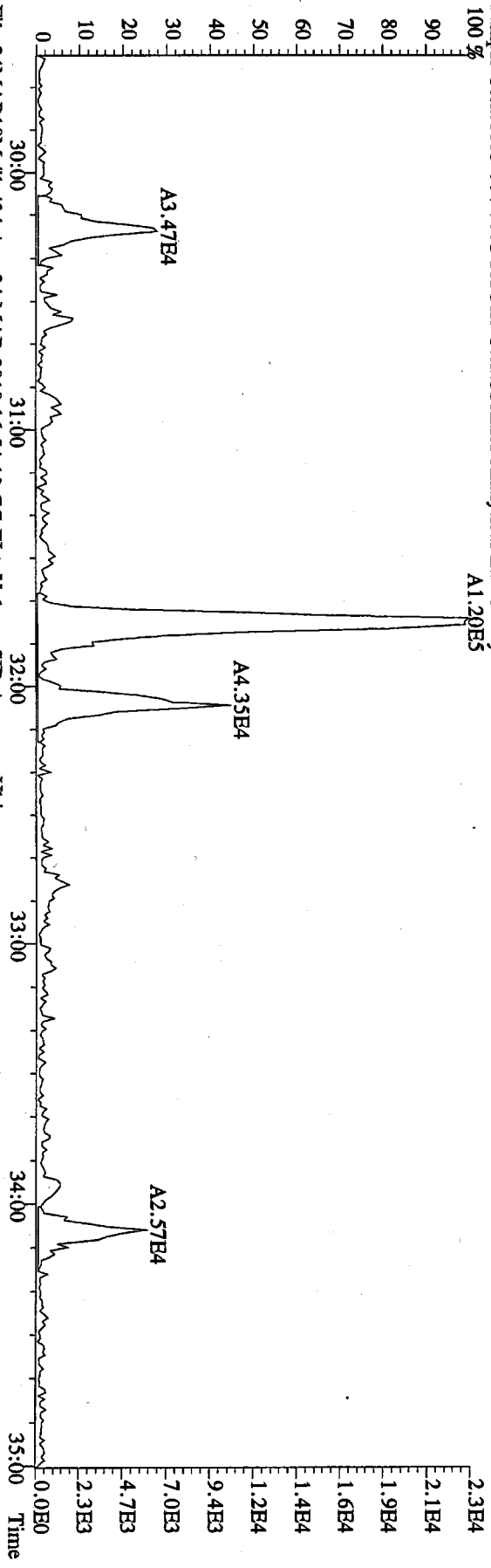
File:24MAR10M #1-424 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



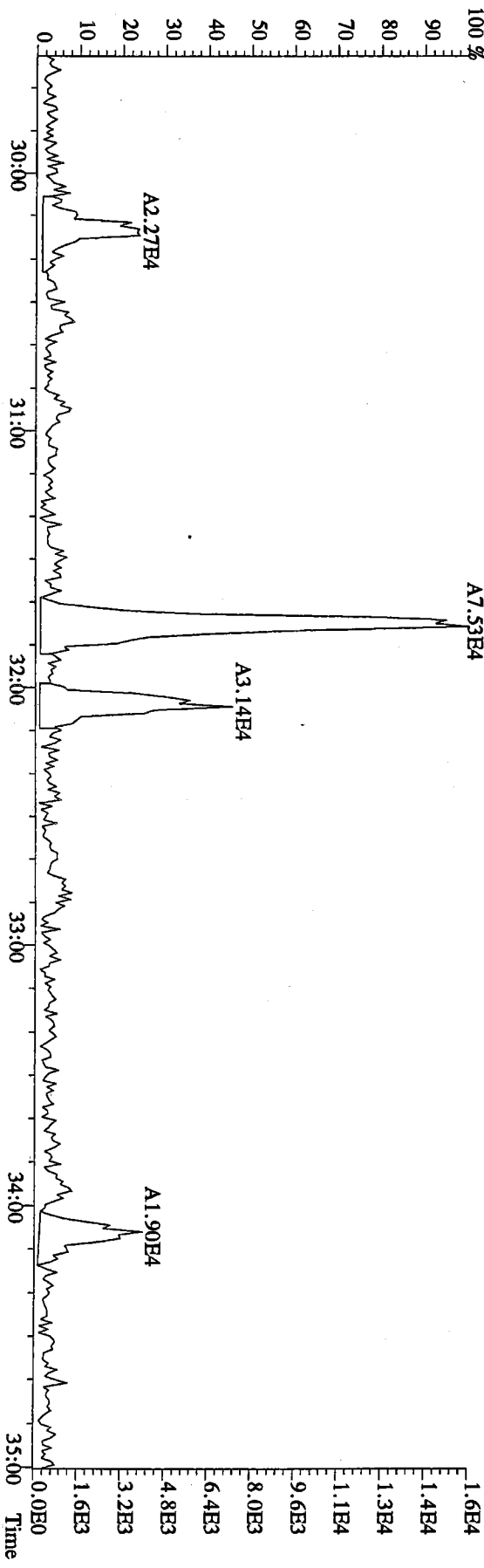
File:24MAR10M #1-424 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



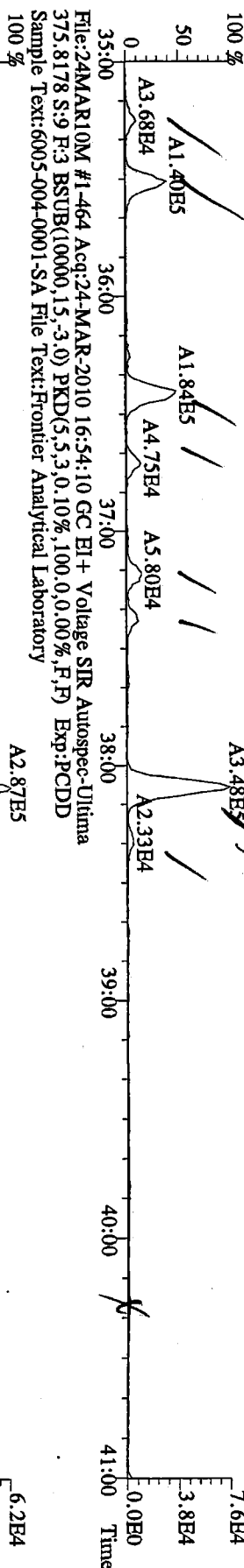
File:24MAR10M #1-424 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:9 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Fronter Analytical Laboratory
 A1.20E5



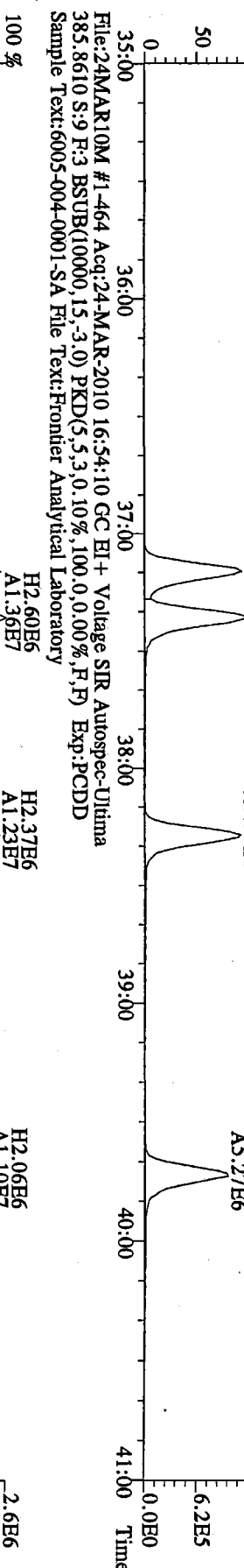
File:24MAR10M #1-424 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Utima
 341.8568 S:9 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Fronter Analytical Laboratory
 A7.53E4



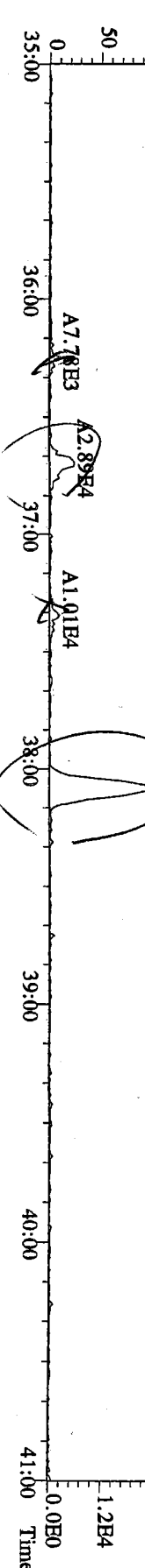
File:24MAR10M #1-464 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



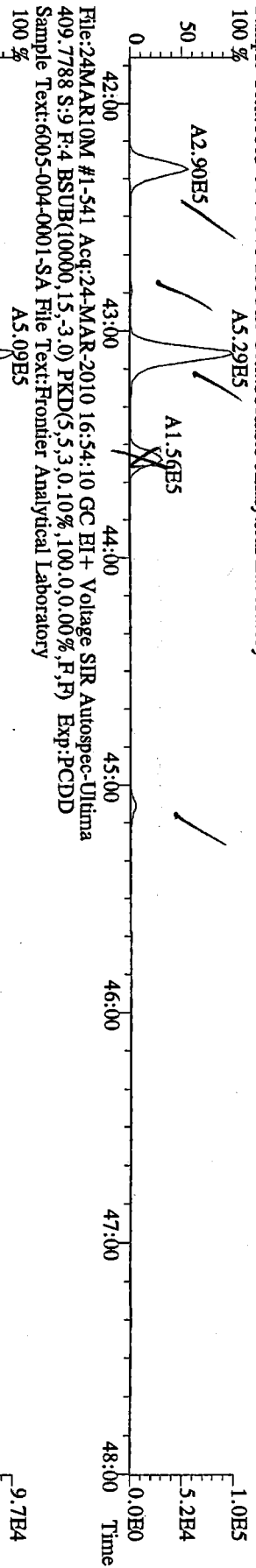
File:24MAR10M #1-464 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



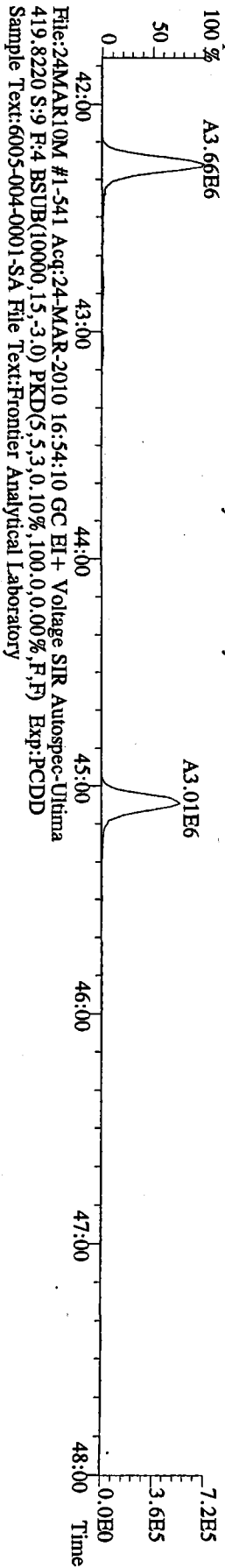
File:24MAR10M #1-464 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



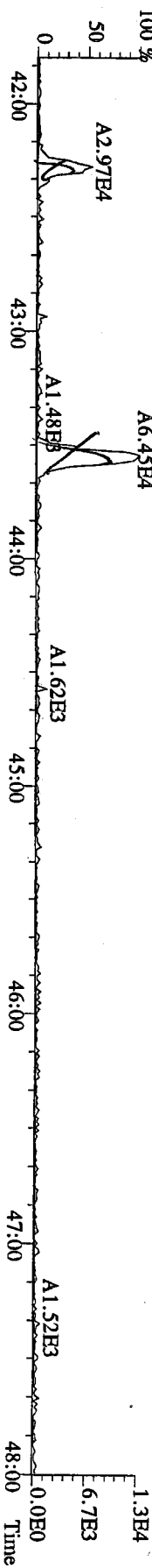
File:24MARI0M #1-541 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



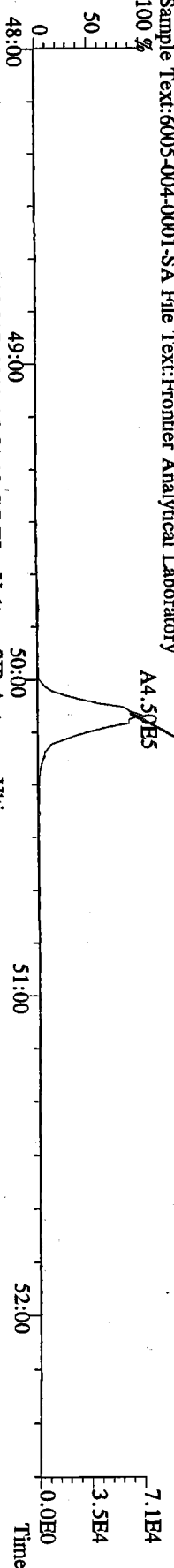
File:24MARI0M #1-541 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



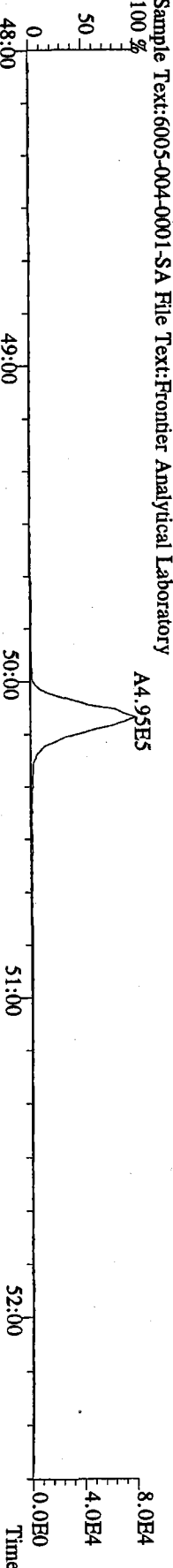
File:24MARI0M #1-541 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



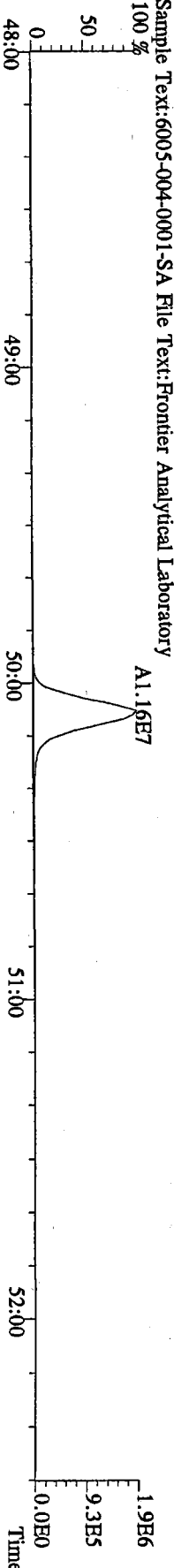
File:24MAR10M #1-347 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



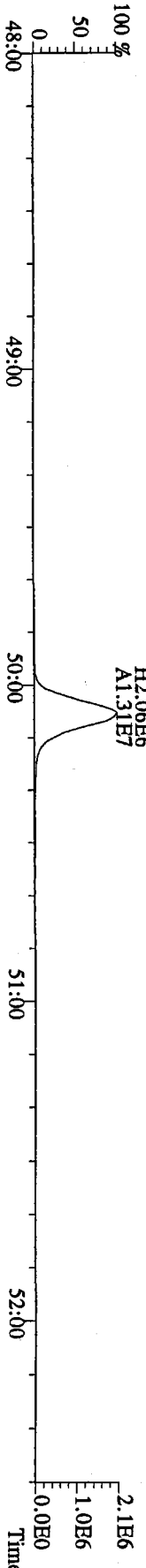
File:24MAR10M #1-347 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



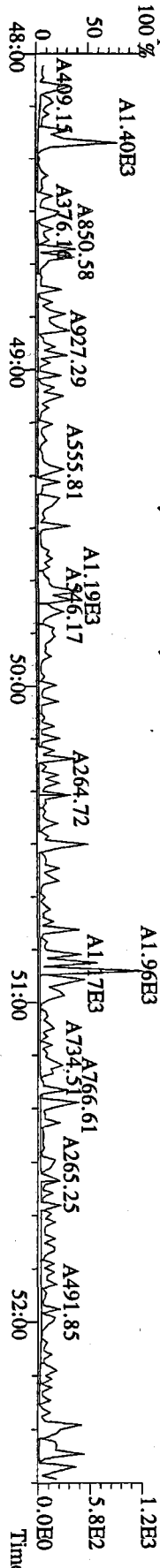
File:24MAR10M #1-347 Acq:24-MAR-2010 16:54:10 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6005-004-0001-SA File Text:Frontier Analytical Laboratory



File:24MAR10M #1-347 Acq:24-MAR-2010 16:54:10 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:6005-004-0001-SA File Text:Frontier Analytical Laboratory



File:24MAR10M #1-347 Acq:24-MAR-2010 16:54:10 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:6005-004-0001-SA File Text:Frontier Analytical Laboratory



Initial Calibration Results

Frontier Analytical Laboratory

Data Filename: 18NOV09M

Analyte: PCDDFAL3-11-18-09

Cal: PCDDFAL3-11-18-09

Name	RRF	S. D.	%RSD	S2 RRF#1	S3 RRF#2	S4 RRF#3	S1 RRF#4	S5 RRF#5	S6 RRF#6
2,3,7,8-TCDD	1.02	0.0735	7.22 %	1.00	0.93	0.95	1.04	1.07	1.12
1,2,3,7,8-PeCDD	0.96	0.0778	8.09 %	0.88	0.88	0.93	0.99	1.02	1.07
1,2,3,4,7,8-HxCDD	1.37	0.110	8.00 %	1.26	1.27	1.31	1.41	1.48	1.52
1,2,3,6,7,8-HxCDD	1.34	0.0611	4.55 %	1.26	1.33	1.30	1.35	1.40	1.42
1,2,3,7,8,9-HxCDD	1.37	0.0751	5.49 %	1.32	1.27	1.32	1.40	1.43	1.47
1,2,3,4,6,7,8-HpCDD	1.17	0.0712	6.10 %	1.12	1.09	1.12	1.16	1.25	1.26
OCDD	1.21	0.113	9.27 %	1.09	1.11	1.17	1.23	1.34	1.35
2,3,7,8-TCDF	1.29	0.0564	4.39 %	1.22	1.28	1.25	1.26	1.31	1.38
1,2,3,7,8-PeCDF	0.89	0.0808	9.08 %	0.79	0.81	0.85	0.94	0.96	0.98
2,3,4,7,8-PeCDF	0.91	0.0710	7.85 %	0.83	0.84	0.87	0.92	0.98	1.00
1,2,3,4,7,8-HxCDF	1.00	0.0925	9.26 %	0.89	0.91	0.97	1.03	1.08	1.11
1,2,3,6,7,8-HxCDF	0.92	0.0747	8.16 %	0.82	0.86	0.88	0.93	0.99	1.01
2,3,4,6,7,8-HxCDF	0.99	0.0785	7.97 %	0.91	0.90	0.95	1.00	1.06	1.09
1,2,3,7,8,9-HxCDF	1.09	0.0901	8.28 %	1.06	1.01	1.06	1.11	1.17	1.20
1,2,3,4,6,7,8-HpCDF	1.36	0.131	9.61 %	1.22	1.22	1.31	1.39	1.50	1.51
1,2,3,4,7,8,9-HpCDF	1.61	0.159	9.90 %	1.49	1.44	1.50	1.62	1.77	1.82
OCDF	0.84	0.0791	9.39 %	0.75	0.76	0.81	0.86	0.93	0.93
13C-2,3,7,8-TCDD	0.94	0.0249	2.65 %	0.92	0.91	0.93	0.96	0.95	0.98
13C-1,2,3,7,8-PeCDD	1.02	0.0718	7.06 %	0.99	0.93	1.00	1.00	1.02	1.15
13C-1,2,3,4,7,8-HxCDD	0.98	0.0126	1.28 %	0.99	0.97	1.00	0.99	0.98	0.97
13C-1,2,3,6,7,8-HxCDD	0.94	0.0188	2.01 %	0.93	0.93	0.96	0.94	0.95	0.91
13C-1,2,3,4,6,7,8-HpCDD	0.90	0.0218	2.42 %	0.92	0.89	0.87	0.91	0.89	0.92
13C-OCDD	0.67	0.0306	4.59 %	0.69	0.66	0.62	0.69	0.64	0.70
13C-2,3,7,8-TCDF	0.88	0.0307	3.49 %	0.85	0.85	0.86	0.88	0.92	0.91
13C-1,2,3,7,8-PeCDF	0.88	0.0612	6.98 %	0.83	0.79	0.87	0.88	0.92	0.96
13C-2,3,4,7,8-PeCDF	0.85	0.0560	6.60 %	0.83	0.76	0.85	0.85	0.88	0.93
13C-1,2,3,4,7,8-HxCDF	1.72	0.0550	3.20 %	1.74	1.75	1.75	1.71	1.75	1.61
13C-1,2,3,6,7,8-HxCDF	2.00	0.0743	3.71 %	2.01	2.02	2.06	2.01	2.05	1.86
13C-2,3,4,6,7,8-HxCDF	1.74	0.0562	3.24 %	1.74	1.73	1.79	1.77	1.75	1.63
13C-1,2,3,7,8,9-HxCDF	1.51	0.0258	1.71 %	1.51	1.47	1.48	1.54	1.53	1.51
13C-1,2,3,4,6,7,8-HpCDF	1.10	0.0153	1.39 %	1.12	1.10	1.08	1.10	1.08	1.11
13C-1,2,3,4,7,8,9-HpCDF	0.85	0.0310	3.67 %	0.82	0.84	0.81	0.87	0.84	0.89
13C-OCDF	1.17	0.0555	4.73 %	1.18	1.15	1.10	1.21	1.14	1.26
37Cl-2,3,7,8-TCDD	0.97	0.0838	8.61 %	0.90	0.93	0.90	0.98	1.03	1.11
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
Total Tetra-Dioxins	1.02	0.0735	7.22 %	1.00	0.93	0.95	1.04	1.07	1.12
Total Penta-Dioxins	0.96	0.0778	8.09 %	0.88	0.88	0.93	0.99	1.02	1.07
Total Hexa-Dioxins	1.36	0.0803	5.89 %	1.28	1.29	1.31	1.38	1.44	1.47
Total Hepta-Dioxins	1.17	0.0712	6.10 %	1.12	1.09	1.12	1.16	1.25	1.26
Total Tetra-Furans	1.29	0.0564	4.39 %	1.22	1.28	1.25	1.26	1.31	1.38
1st Fn. Tot Penta-Furans	0.90	0.0756	8.43 %	0.81	0.82	0.86	0.93	0.97	0.99
Total Penta-Furans	0.90	0.0756	8.43 %	0.81	0.82	0.86	0.93	0.97	0.99
Total Hexa-Furans	0.99	0.0838	8.45 %	0.89	0.91	0.96	1.01	1.07	1.10
Total Hepta-Furans	1.47	0.144	9.82 %	1.33	1.32	1.39	1.49	1.62	1.65

Analyst: 

Date: 11/19/05

000121 of 000302

QL58 : 00636

Run #1 Filename 18NOV09M
 Client ID: ST111809M

S: 2 Acquired: 18-NOV-09 14:40:53 Cal: PCDDFAL3-11-18-09
 Analyte: FAL ID: 1613 CSO 090918G

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	0.25	6.29e+04	0.72 y	27:25	-	0.999 y
2	Unk 1,2,3,7,8-PeCDD	1.25	2.97e+05	1.58 y	33:14	-	0.878 y
3	Unk 1,2,3,4,7,8-HxCDD	1.25	3.17e+05	1.22 y	38:36	-	1.26 y
4	Unk 1,2,3,6,7,8-HxCDD	1.25	2.97e+05	1.25 y	38:46	-	1.26 y
5	Unk 1,2,3,7,8,9-HxCDD	1.25	3.23e+05	1.29 y	39:13	-	1.32 y
6	Unk 1,2,3,4,6,7,8-HpCDD	1.25	2.62e+05	0.93 y	44:14	-	1.12 y
7	Unk OCDD	2.50	3.81e+05	0.92 y	49:49	-	1.09 y
8	Unk 2,3,7,8-TCDF	0.25	1.27e+05	0.69 y	26:39	-	1.22 y
9	Unk 1,2,3,7,8-PeCDF	1.25	4.03e+05	1.75 y	31:30	-	0.794 y
10	Unk 2,3,4,7,8-PeCDF	1.25	4.20e+05	1.65 y	32:49	-	0.830 y
11	Unk 1,2,3,4,7,8-HxCDF	1.25	3.91e+05	1.24 y	37:13	-	0.887 y
12	Unk 1,2,3,6,7,8-HxCDF	1.25	4.20e+05	1.21 y	37:26	-	0.822 y
13	Unk 2,3,4,6,7,8-HxCDF	1.25	4.00e+05	1.29 y	38:21	-	0.906 y
14	Unk 1,2,3,7,8,9-HxCDF	1.25	3.77e+05	1.28 y	39:47	-	0.981 y
15	Unk 1,2,3,4,6,7,8-HpCDF	1.25	3.46e+05	1.00 y	42:19	-	1.22 y
16	Unk 1,2,3,4,7,8,9-HpCDF	1.25	3.09e+05	1.00 y	45:08	-	1.49 y
17	Unk OCDF	2.50	4.50e+05	0.88 y	50:10	-	0.754 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	2.52e+07	0.73 y	27:23	-	0.925 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	2.71e+07	1.63 y	33:13	-	0.994 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.02e+07	1.31 y	38:35	-	0.994 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	1.89e+07	1.33 y	38:45	-	0.930 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	1.87e+07	1.06 y	44:12	-	0.922 y
23	IS 13C-OCDD	200.00	2.79e+07	1.01 y	49:47	-	0.689 y
24	IS 13C-2,3,7,8-TCDF	100.00	4.15e+07	0.81 y	26:38	-	0.852 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	4.06e+07	1.67 y	31:28	-	0.835 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	4.04e+07	1.68 y	32:48	-	0.831 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	3.52e+07	0.48 y	37:12	-	1.74 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	4.09e+07	0.48 y	37:24	-	2.01 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	3.53e+07	0.49 y	38:20	-	1.74 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	3.07e+07	0.49 y	39:47	-	1.51 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.27e+07	0.46 y	42:18	-	1.12 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.66e+07	0.46 y	45:07	-	0.821 y
33	IS 13C-OCDF	200.00	4.77e+07	0.92 y	50:10	-	1.18 y
34	C/Up 37Cl-2,3,7,8-TCDD	0.25	6.12e+04		27:25	-	0.900 y
35	RS 13C-1,2,3,4-TCDD	100.00	2.72e+07	0.74 y	26:49	2.72e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	4.87e+07	0.81 y	25:33	4.87e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.03e+07	1.33 y	39:12	2.03e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	0.999 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	0.878 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.28 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.12 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.22 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.812 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.812 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.893 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.33 y

Analyst:

Date: 11/19/09

Run #2 Filename 18NOV09M
Client ID: ST111809M1

S: 3 Acquired: 18-NOV-09 15:36:11 Cal: PCDDFAL3-11-18-09
Analyte: FAL ID: 1613 CS1 090918H

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	0.50	1.11e+05	0.75 y	27:24	-	0.929 y
2 Unk	1,2,3,7,8-PeCDD	2.50	5.36e+05	1.55 y	33:13	-	0.880 y
3 Unk	1,2,3,4,7,8-HxCDD	2.50	5.91e+05	1.24 y	38:36	-	1.27 y
4 Unk	1,2,3,6,7,8-HxCDD	2.50	5.90e+05	1.34 y	38:46	-	1.33 y
5 Unk	1,2,3,7,8,9-HxCDD	2.50	5.76e+05	1.27 y	39:13	-	1.27 y
6 Unk	1,2,3,4,6,7,8-HpCDD	2.50	4.64e+05	0.91 y	44:14	-	1.09 y
7 Unk	OCDD	5.00	7.02e+05	0.93 y	49:48	-	1.11 y
8 Unk	2,3,7,8-TCDF	0.50	2.57e+05	0.66 y	26:38	-	1.28 y
9 Unk	1,2,3,7,8-PeCDF	2.50	7.54e+05	1.68 y	31:29	-	0.811 y
10 Unk	2,3,4,7,8-PeCDF	2.50	7.51e+05	1.69 y	32:48	-	0.839 y
11 Unk	1,2,3,4,7,8-HxCDF	2.50	7.60e+05	1.28 y	37:12	-	0.906 y
12 Unk	1,2,3,6,7,8-HxCDF	2.50	8.29e+05	1.28 y	37:25	-	0.857 y
13 Unk	2,3,4,6,7,8-HxCDF	2.50	7.51e+05	1.20 y	38:21	-	0.905 y
14 Unk	1,2,3,7,8,9-HxCDF	2.50	7.09e+05	1.26 y	39:47	-	1.01 y
15 Unk	1,2,3,4,6,7,8-HpCDF	2.50	6.45e+05	1.00 y	42:19	-	1.22 y
16 Unk	1,2,3,4,7,8,9-HpCDF	2.50	5.81e+05	0.96 y	45:08	-	1.44 y
17 Unk	OCDF	5.00	8.42e+05	0.93 y	50:11	-	0.763 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	2.38e+07	0.73 y	27:22	-	0.913 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	2.44e+07	1.69 y	33:12	-	0.934 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.86e+07	1.36 y	38:35	-	0.969 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.78e+07	1.31 y	38:44	-	0.928 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.70e+07	1.07 y	44:12	-	0.886 y
23 IS	13C-OCDD	200.00	2.54e+07	1.00 y	49:47	-	0.662 y
24 IS	13C-2,3,7,8-TCDF	100.00	4.01e+07	0.81 y	26:37	-	0.850 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	3.72e+07	1.68 y	31:28	-	0.790 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	3.58e+07	1.71 y	32:47	-	0.759 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.36e+07	0.48 y	37:11	-	1.75 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.87e+07	0.48 y	37:23	-	2.02 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.32e+07	0.49 y	38:20	-	1.73 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	2.82e+07	0.49 y	39:46	-	1.47 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.11e+07	0.45 y	42:17	-	1.10 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.61e+07	0.45 y	45:07	-	0.842 y
33 IS	13C-OCDF	200.00	4.41e+07	0.92 y	50:09	-	1.15 y
34 C/Up	37Cl-2,3,7,8-TCDD	0.50	1.21e+05		27:24	-	0.926 y
35 RS	13C-1,2,3,4-TCDD	100.00	2.61e+07	0.73 y	26:48	2.61e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	4.71e+07	0.81 y	25:32	4.71e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.92e+07	1.31 y	39:11	1.92e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.929 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.880 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.29 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.09 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.28 y
43 Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.824 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.824 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.913 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.32 y

Analyst: J

Date: 11/19/09

Run #4 Filename 18NOV09M

S: 1


Acquired: 18-NOV-09 13:45:10 Cal: PCDDFAL3-11-18-09

Client ID: ST111809M3

Analyte:

FAL ID: 1613 CS3 090918J

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	10.00	2.56e+06	0.76 y	27:24	-	1.04 y
2 Unk	1,2,3,7,8-PeCDD	50.00	1.28e+07	1.56 y	33:14	-	0.993 y
3 Unk	1,2,3,4,7,8-HxCDD	50.00	1.38e+07	1.29 y	38:36	-	1.41 y
4 Unk	1,2,3,6,7,8-HxCDD	50.00	1.26e+07	1.28 y	38:47	-	1.35 y
5 Unk	1,2,3,7,8,9-HxCDD	50.00	1.34e+07	1.27 y	39:14	-	1.40 y
6 Unk	1,2,3,4,6,7,8-HpCDD	50.00	1.05e+07	0.95 y	44:14	-	1.16 y
7 Unk	OCDD	100.00	1.68e+07	0.91 y	49:49	-	1.23 y
8 Unk	2,3,7,8-TCDF	10.00	5.06e+06	0.66 y	26:38	-	1.26 y
9 Unk	1,2,3,7,8-PeCDF	50.00	1.89e+07	1.72 y	31:30	-	0.936 y
10 Unk	2,3,4,7,8-PeCDF	50.00	1.80e+07	1.72 y	32:49	-	0.923 y
11 Unk	1,2,3,4,7,8-HxCDF	50.00	1.75e+07	1.25 y	37:13	-	1.03 y
12 Unk	1,2,3,6,7,8-HxCDF	50.00	1.87e+07	1.25 y	37:25	-	0.930 y
13 Unk	2,3,4,6,7,8-HxCDF	50.00	1.77e+07	1.26 y	38:21	-	1.00 y
14 Unk	1,2,3,7,8,9-HxCDF	50.00	1.70e+07	1.24 y	39:48	-	1.11 y
15 Unk	1,2,3,4,6,7,8-HpCDF	50.00	1.53e+07	1.01 y	42:19	-	1.39 y
16 Unk	1,2,3,4,7,8,9-HpCDF	50.00	1.40e+07	0.99 y	45:09	-	1.62 y
17 Unk	OCDF	100.00	2.08e+07	0.92 y	50:11	-	0.863 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	2.46e+07	0.74 y	27:22	-	0.959 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	2.58e+07	1.60 y	33:13	-	1.00 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.96e+07	1.34 y	38:36	-	0.985 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.88e+07	1.34 y	38:45	-	0.943 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.81e+07	1.09 y	44:13	-	0.909 y
23 IS	13C-OCDD	200.00	2.74e+07	1.02 y	49:48	-	0.689 y
24 IS	13C-2,3,7,8-TCDF	100.00	4.03e+07	0.82 y	26:37	-	0.883 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	4.03e+07	1.68 y	31:28	-	0.884 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	3.90e+07	1.69 y	32:47	-	0.854 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.40e+07	0.49 y	37:11	-	1.71 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.01e+07	0.49 y	37:24	-	2.01 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.52e+07	0.49 y	38:20	-	1.77 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	3.06e+07	0.49 y	39:46	-	1.54 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.19e+07	0.46 y	42:18	-	1.10 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.74e+07	0.44 y	45:08	-	0.872 y
33 IS	13C-OCDF	200.00	4.82e+07	0.94 y	50:10	-	1.21 y
34 C/Up	37Cl-2,3,7,8-TCDD	10.00	2.51e+06		27:24	-	0.978 y
35 RS	13C-1,2,3,4-TCDD	100.00	2.57e+07	0.74 y	26:48	2.57e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	4.56e+07	0.81 y	25:32	4.56e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.99e+07	1.34 y	39:12	1.99e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.04 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.993 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.38 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.16 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.26 y
43 Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.930 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.930 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.01 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.49 y

Analyst: 

Date: 11/19/09

Run #5 Filename 18NOV09M
Client ID: ST111809M4

S: 5 Acquired: 18-NOV-09 17:26:40 Cal: PCDDFAL3-11-18-09
Analyte: FAL ID: 1613 CS4 090918K

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	40.00	1.15e+07	0.78 y	27:23	-	1.07 y
2	Unk 1,2,3,7,8-PeCDD	200.00	5.92e+07	1.60 y	33:13	-	1.02 y
3	Unk 1,2,3,4,7,8-HxCDD	200.00	6.29e+07	1.27 y	38:35	-	1.48 y
4	Unk 1,2,3,6,7,8-HxCDD	200.00	5.74e+07	1.28 y	38:46	-	1.40 y
5	Unk 1,2,3,7,8,9-HxCDD	200.00	5.95e+07	1.26 y	39:13	-	1.43 y
6	Unk 1,2,3,4,6,7,8-HpCDD	200.00	4.77e+07	0.95 y	44:13	-	1.25 y
7	Unk OCDD	400.00	7.39e+07	0.92 y	49:48	-	1.34 y
8	Unk 2,3,7,8-TCDF	40.00	2.33e+07	0.66 y	26:37	-	1.31 y
9	Unk 1,2,3,7,8-PeCDF	200.00	8.59e+07	1.69 y	31:29	-	0.964 y
10	Unk 2,3,4,7,8-PeCDF	200.00	8.30e+07	1.71 y	32:48	-	0.978 y
11	Unk 1,2,3,4,7,8-HxCDF	200.00	8.21e+07	1.25 y	37:12	-	1.08 y
12	Unk 1,2,3,6,7,8-HxCDF	200.00	8.80e+07	1.25 y	37:24	-	0.991 y
13	Unk 2,3,4,6,7,8-HxCDF	200.00	8.00e+07	1.23 y	38:21	-	1.06 y
14	Unk 1,2,3,7,8,9-HxCDF	200.00	7.74e+07	1.25 y	39:47	-	1.17 y
15	Unk 1,2,3,4,6,7,8-HpCDF	200.00	7.01e+07	1.02 y	42:18	-	1.50 y
16	Unk 1,2,3,4,7,8,9-HpCDF	200.00	6.47e+07	1.02 y	45:08	-	1.77 y
17	Unk OCDF	400.00	9.18e+07	0.92 y	50:11	-	0.930 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	2.70e+07	0.73 y	27:22	-	0.950 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	2.91e+07	1.73 y	33:12	-	1.02 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.13e+07	1.33 y	38:35	-	0.983 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.05e+07	1.33 y	38:44	-	0.946 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	1.91e+07	1.06 y	44:12	-	0.885 y
23	IS 13C-OCDD	200.00	2.76e+07	0.99 y	49:47	-	0.638 y
24	IS 13C-2,3,7,8-TCDF	100.00	4.44e+07	0.82 y	26:36	-	0.918 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	4.45e+07	1.70 y	31:27	-	0.921 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	4.24e+07	1.70 y	32:47	-	0.877 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	3.79e+07	0.50 y	37:11	-	1.75 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	4.44e+07	0.49 y	37:23	-	2.05 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	3.79e+07	0.49 y	38:19	-	1.75 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	3.30e+07	0.48 y	39:46	-	1.53 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.33e+07	0.47 y	42:17	-	1.08 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.82e+07	0.46 y	45:07	-	0.843 y
33	IS 13C-OCDF	200.00	4.94e+07	0.92 y	50:09	-	1.14 y
34	C/Up 37Cl-2,3,7,8-TCDD	40.00	1.17e+07		27:23	-	1.03 y
35	RS 13C-1,2,3,4-TCDD	100.00	2.85e+07	0.74 y	26:47	2.85e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	4.84e+07	0.82 y	25:32	4.84e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.16e+07	1.31 y	39:12	2.16e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.07 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.02 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.44 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.25 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.31 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.971 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.971 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.07 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.62 y

Analyst: J

Date: 11/19/09

Run #6 Filename 18NOV09M
Client ID: ST111809M5

S: 6 Acquired: 18-NOV-09 18:21:58 Cal: PCDDFAL3-11-18-09
Analyte: PCDDFAL3-11-18-09 FAL ID: 1613 CS5 090918L

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	200.00	4.98e+07	0.78 y	27:23	-	1.12 y
2	Unk 1,2,3,7,8-PeCDD	1000.00	2.79e+08	1.55 y	33:13	-	1.07 y
3	Unk 1,2,3,4,7,8-HxCDD	1000.00	3.29e+08	1.27 y	38:36	-	1.52 y
4	Unk 1,2,3,6,7,8-HxCDD	1000.00	2.88e+08	1.27 y	38:46	-	1.42 y
5	Unk 1,2,3,7,8,9-HxCDD	1000.00	3.07e+08	1.25 y	39:13	-	1.47 y
6	Unk 1,2,3,4,6,7,8-HpCDD	1000.00	2.60e+08	0.97 y	44:13	-	1.26 y
7	Unk OCDD	2000.00	4.20e+08	0.91 y	49:49	-	1.35 y
8	Unk 2,3,7,8-TCDF	200.00	1.00e+08	0.68 y	26:38	-	1.38 y
9	Unk 1,2,3,7,8-PeCDF	1000.00	3.75e+08	1.67 y	31:29	-	0.979 y
10	Unk 2,3,4,7,8-PeCDF	1000.00	3.68e+08	1.68 y	32:48	-	0.995 y
11	Unk 1,2,3,4,7,8-HxCDF	1000.00	3.99e+08	1.26 y	37:12	-	1.11 y
12	Unk 1,2,3,6,7,8-HxCDF	1000.00	4.18e+08	1.25 y	37:24	-	1.01 y
13	Unk 2,3,4,6,7,8-HxCDF	1000.00	3.97e+08	1.25 y	38:20	-	1.09 y
14	Unk 1,2,3,7,8,9-HxCDF	1000.00	4.04e+08	1.24 y	39:47	-	1.20 y
15	Unk 1,2,3,4,6,7,8-HpCDF	1000.00	3.72e+08	1.01 y	42:18	-	1.51 y
16	Unk 1,2,3,4,7,8,9-HpCDF	1000.00	3.62e+08	1.01 y	45:08	-	1.82 y
17	Unk OCDF	2000.00	5.23e+08	0.93 y	50:12	-	0.933 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	2.22e+07	0.74 y	27:22	-	0.980 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	2.61e+07	1.65 y	33:12	-	1.15 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.17e+07	1.33 y	38:35	-	0.972 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.02e+07	1.33 y	38:44	-	0.909 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.06e+07	1.07 y	44:12	-	0.923 y
23	IS 13C-OCDD	200.00	3.11e+07	1.02 y	49:48	-	0.698 y
24	IS 13C-2,3,7,8-TCDF	100.00	3.62e+07	0.83 y	26:37	-	0.911 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	3.83e+07	1.66 y	31:27	-	0.963 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	3.70e+07	1.70 y	32:46	-	0.930 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	3.59e+07	0.49 y	37:11	-	1.61 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	4.14e+07	0.50 y	37:23	-	1.86 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	3.63e+07	0.49 y	38:20	-	1.63 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	3.35e+07	0.48 y	39:46	-	1.51 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.47e+07	0.46 y	42:17	-	1.11 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.99e+07	0.47 y	45:06	-	0.892 y
33	IS 13C-OCDF	200.00	5.61e+07	0.94 y	50:10	-	1.26 y
34	C/Up 37Cl-2,3,7,8-TCDD	200.00	5.04e+07		27:23	-	1.11 y
35	RS 13C-1,2,3,4-TCDD	100.00	2.27e+07	0.74 y	26:47	2.27e+05	- n
36	RS 13C-1,2,3,4-TCDD	100.00	3.98e+07	0.82 y	25:31	3.98e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.23e+07	1.31 y	39:11	2.23e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.12 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.07 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.47 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.26 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.38 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.987 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.987 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.10 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.65 y

Analyst: J Date: 11/19/09

USEPA - ITD

FORM 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS3 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.00	0.93	0.95	1.04	1.07	1.12	1.02	7.22
1,2,3,7,8-PeCDD	0.88	0.88	0.93	0.99	1.02	1.07	0.96	8.09
1,2,3,4,7,8-HxCDD	1.26	1.27	1.31	1.41	1.48	1.52	1.37	8.00
1,2,3,6,7,8-HxCDD	1.26	1.33	1.30	1.35	1.40	1.42	1.34	4.55
1,2,3,7,8,9-HxCDD	1.32	1.27	1.32	1.40	1.43	1.47	1.37	5.49
1,2,3,4,6,7,8-HpCDD	1.12	1.09	1.12	1.16	1.25	1.26	1.17	6.10
OCDD	1.09	1.11	1.17	1.23	1.34	1.35	1.21	9.27
2,3,7,8-TCDF	1.22	1.28	1.25	1.26	1.31	1.38	1.29	4.39
1,2,3,7,8-PeCDF	0.79	0.81	0.85	0.94	0.96	0.98	0.89	9.08
2,3,4,7,8-PeCDF	0.83	0.84	0.87	0.92	0.98	1.00	0.91	7.85
1,2,3,4,7,8-HxCDF	0.89	0.91	0.97	1.03	1.08	1.11	1.00	9.26
1,2,3,6,7,8-HxCDF	0.82	0.86	0.88	0.93	0.99	1.01	0.92	8.16
2,3,4,6,7,8-HxCDF	0.91	0.90	0.95	1.00	1.06	1.09	0.99	7.97
1,2,3,7,8,9-HxCDF	0.98	1.01	1.06	1.11	1.17	1.20	1.09	8.28
1,2,3,4,6,7,8-HpCDF	1.22	1.22	1.31	1.39	1.50	1.51	1.36	9.61
1,2,3,4,7,8,9-HpCDF	1.49	1.44	1.50	1.62	1.77	1.82	1.61	9.90
OCDF	0.75	0.76	0.81	0.86	0.93	0.93	0.84	9.39

Analyst: JDate: 11/19/09

USEPA - ITD

FORM 3B
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS4 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	0.92	0.91	0.93	0.96	0.95	0.98	0.94	2.65
13C-1,2,3,7,8-PeCDD	0.99	0.93	1.00	1.00	1.02	1.15	1.02	7.06
13C-1,2,3,4,7,8-HxCDD	0.99	0.97	1.00	0.99	0.98	0.97	0.98	1.28
13C-1,2,3,6,7,8-HxCDD	0.93	0.93	0.96	0.94	0.95	0.91	0.94	2.01
13C-1,2,3,4,6,7,8-HpCDD	0.92	0.89	0.87	0.91	0.89	0.92	0.90	2.42
13C-OCDD	0.69	0.66	0.62	0.69	0.64	0.70	0.67	4.59
13C-2,3,7,8-TCDF	0.85	0.85	0.86	0.88	0.92	0.91	0.88	3.49
13C-1,2,3,7,8-PeCDF	0.83	0.79	0.87	0.88	0.92	0.96	0.88	6.98
13C-2,3,4,7,8-PeCDF	0.83	0.76	0.85	0.85	0.88	0.93	0.85	6.60
13C-1,2,3,4,7,8-HxCDF	1.74	1.75	1.75	1.71	1.75	1.61	1.72	3.20
13C-1,2,3,6,7,8-HxCDF	2.01	2.02	2.06	2.01	2.05	1.86	2.00	3.71
13C-2,3,4,6,7,8-HxCDF	1.74	1.73	1.79	1.77	1.75	1.63	1.74	3.24
13C-1,2,3,7,8,9-HxCDF	1.51	1.47	1.48	1.54	1.53	1.51	1.51	1.71
13C-1,2,3,4,6,7,8-HpCDF	1.12	1.10	1.08	1.10	1.08	1.11	1.10	1.39
13C-1,2,3,4,7,8,9-HpCDF	0.82	0.84	0.81	0.87	0.84	0.89	0.85	3.67
13C-OCDF	1.18	1.15	1.10	1.21	1.14	1.26	1.17	4.73
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.90	0.93	0.90	0.98	1.03	1.11	0.97	8.61

Analyst: 

Date: 11/19/09

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USEPA - ITD

FORM 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS3 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.72	0.75	0.80	0.76	0.78	0.78	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.55	1.55	1.56	1.60	1.55	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.24	1.24	1.29	1.27	1.27	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.34	1.24	1.28	1.28	1.27	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.27	1.27	1.27	1.26	1.25	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.93	0.91	0.91	0.95	0.95	0.97	0.88-1.20
OCDD	M+2/M+4	0.92	0.93	0.92	0.91	0.92	0.91	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.69	0.66	0.66	0.66	0.66	0.68	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.75	1.68	1.71	1.72	1.69	1.67	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.69	1.69	1.72	1.71	1.68	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.28	1.23	1.25	1.25	1.26	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.28	1.22	1.25	1.25	1.25	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.29	1.20	1.24	1.26	1.23	1.25	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.26	1.21	1.24	1.25	1.24	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	1.00	1.00	1.01	1.02	1.01	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.00	0.96	1.01	0.99	1.02	1.01	0.88-1.20
OCDF	M+2/M+4	0.88	0.93	0.91	0.92	0.92	0.93	0.76-1.02

Analyst: 6 Date: 11/19/05

USEPA - ITD

FORM 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 18NOV09M S2 CS3 Data Filename: 18NOV09M S1

CS1 Data Filename: 18NOV09M S3 CS4 Data Filename: 18NOV09M S5

CS2 Data Filename: 18NOV09M S4 CS5 Data Filename: 18NOV09M S6

Labeled Compounds	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
13C-2,3,7,8-TCDD	M/M+2	0.73	0.73	0.73	0.74	0.73	0.74	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.63	1.69	1.66	1.60	1.73	1.65	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.36	1.32	1.34	1.33	1.33	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.33	1.31	1.31	1.34	1.33	1.33	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	1.07	1.06	1.09	1.06	1.07	0.88-1.20
13C-OCDD	M+2/M+4	1.01	1.00	0.98	1.02	0.99	1.02	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.81	0.81	0.82	0.82	0.82	0.83	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.67	1.68	1.68	1.68	1.70	1.66	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.68	1.71	1.66	1.69	1.70	1.70	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.48	0.48	0.49	0.49	0.50	0.49	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.48	0.48	0.50	0.49	0.49	0.50	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.49	0.49	0.50	0.49	0.49	0.49	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.49	0.49	0.49	0.49	0.48	0.48	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.45	0.46	0.46	0.47	0.46	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.46	0.45	0.46	0.44	0.46	0.47	0.37-0.51
13C-OCDF	M+2/M+4	0.92	0.92	0.93	0.94	0.92	0.94	0.76-1.02

Analyst: 8Date: 11/19/09

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 18NOV09M Sam:1

Analysis Date: 18-NOV-09 13:45:10

	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	0.76	0.65-0.89	y	10.2	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.56	1.32-1.78	y	51.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	51.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.1	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.95	0.88-1.20	y	49.5	43.0 - 58.0
OCDD	M+2/M+4	0.91	0.76-1.02	y	101	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.66	0.65-0.89	y	9.77	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.72	1.32-1.78	y	52.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.72	1.32-1.78	y	50.9	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	51.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	50.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.9	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	51.1	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	51.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	0.88-1.20	y	50.3	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	102	63.0 - 159

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

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

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

Analyst: Date: 11/19/09

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 18NOV09M Sam:1

Analysis Date: 18-NOV-09 13:45:10

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.74	0.65-0.89	y	102	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.32-1.78	y	98.5	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.34	1.05-1.43	y	100	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.34	1.05-1.43	y	101	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.09	0.88-1.20	y	101	72.0 - 138
13C-OCDD	M+2/M+4	1.02	0.76-1.02	y	207	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.82	0.65-0.89	y	100	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	101	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.69	1.32-1.78	y	101	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	99.5	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	101	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	102	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.49	0.43-0.59	y	102	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.37-0.51	y	100	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	103	77.0 - 129
13C-OCDF	M+2/M+4	0.94	0.76-1.02	y	206	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.0	7.80 - 12.8

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

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

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

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

Analyst: Date: 11/18/09

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: 11/18/09
RT Window Data Filename: 18NOV09M Sam:1 Analysis Date: 18-NOV-09 Time: 13:45:10
DB-5 IS Data Filename: 18NOV09M Sam:1 Analysis Date: 18-NOV-09 Time: 13:45:10
DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:23	1,3,6,8-TCDF (F)	23:02
1,2,8,9-TCDD (L)	28:20	1,2,8,9-TCDF (L)	28:33
1,2,4,7,9-PeCDD (F)	30:15	1,3,4,6,8-PeCDF (F)	28:26
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)	39:14	1,2,3,7,8,9-HxCDF (L)	39:48
1,2,3,4,6,7,9-HpCDD (F)	42:51	1,2,3,4,6,7,8-HpCDF (F)	42:19
1,2,3,4,6,7,8-HpCDD (L)	44:14	1,2,3,4,7,8,9-HpCDF (L)	45:09

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

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst: J

Date: 11/19/05

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 18-NOV-09 13:45:10

CS3 or VER Data Filename: 18NOV09M

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

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

Analyst: _____

Date: _____

USEPA - ITD

FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 18-NOV-09 13:45:10

CS3 or VER Data Filename: 18NOV09M


Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.001	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.985	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154
13C-OCDD		1.270	1.032-1.311
13C-OCDF		1.280	1.000-1.311

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

Analyst: JDate: 11/19/09

Results:		GC Column: DB5			Amount: 1.000		NATO 1989 Tox:		103		WHO 1998 Tox:		128		WHO 2005 Tox:		117	
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL									
2,3,7,8-TCDD	2.56e+06	0.76 y	27:24	1.02	10.2		2.50	-	*									
1,2,3,7,8-PeCDD	1.28e+07	1.56 y	33:14	0.96	51.6		2.50	-	*									
1,2,3,4,7,8-HxCDD	1.38e+07	1.29 y	38:36	1.37	51.2		2.50	-	*									
1,2,3,6,7,8-HxCDD	1.26e+07	1.28 y	38:47	1.34	50.1		2.50	-	*									
1,2,3,7,8,9-HxCDD	1.34e+07	1.27 y	39:14	1.37	51.1		2.50	-	*									
1,2,3,4,6,7,8-HpCDD	1.05e+07	0.95 y	44:14	1.17	49.5		2.50	-	*									
OCDD	1.68e+07	0.91 y	49:49	1.21	101		2.50	-	*									
2,3,7,8-TCDF	5.06e+06	0.66 y	26:38	1.29	9.77		2.50	-	*									
1,2,3,7,8-PeCDF	1.89e+07	1.72 y	31:30	0.89	52.6		2.50	-	*									
2,3,4,7,8-PeCDF	1.80e+07	1.72 y	32:49	0.91	50.9		2.50	-	*									
1,2,3,4,7,8-HxCDF	1.75e+07	1.25 y	37:13	1.00	51.5		2.50	-	*									
1,2,3,6,7,8-HxCDF	1.87e+07	1.25 y	37:25	0.92	50.8		2.50	-	*									
2,3,4,6,7,8-HxCDF	1.77e+07	1.26 y	38:21	0.99	50.9		2.50	-	*									
1,2,3,7,8,9-HxCDF	1.70e+07	1.24 y	39:48	1.09	51.1		2.50	-	*									
1,2,3,4,6,7,8-HpCDF	1.53e+07	1.01 y	42:19	1.36	51.3		2.50	-	*									
1,2,3,4,7,8,9-HpCDF	1.40e+07	0.99 y	45:09	1.61	50.3		2.50	-	*									
OCDF	2.08e+07	0.92 y	50:11	0.84	102		2.50	-	*									
Rec																		
13C-2,3,7,8-TCDD	2.46e+07	0.74 y	27:22	0.94	102													102
13C-1,2,3,7,8-PeCDD	2.58e+07	1.60 y	33:13	1.02	98.5													98.5
13C-1,2,3,4,7,8-HxCDD	1.96e+07	1.34 y	38:36	0.98	100													100
13C-1,2,3,6,7,8-HxCDD	1.88e+07	1.34 y	38:45	0.94	101													101
13C-1,2,3,4,6,7,8-HpCDD	1.81e+07	1.09 y	44:13	0.90	101													101
13C-OCDD	2.74e+07	1.02 y	49:48	0.67	207													103
13C-2,3,7,8-TCDF	4.03e+07	0.82 y	26:37	0.88	100													100
13C-1,2,3,7,8-PeCDF	4.03e+07	1.68 y	31:28	0.88	101													101
13C-2,3,4,7,8-PeCDF	3.90e+07	1.69 y	32:47	0.85	101													101
13C-1,2,3,4,7,8-HxCDF	3.40e+07	0.49 y	37:11	1.72	99.5													99.5
13C-1,2,3,6,7,8-HxCDF	4.01e+07	0.49 y	37:24	2.00	101													101
13C-2,3,4,6,7,8-HxCDF	3.52e+07	0.49 y	38:20	1.74	102													102
13C-1,2,3,7,8,9-HxCDF	3.06e+07	0.49 y	39:46	1.51	102													102
13C-1,2,3,4,6,7,8-HpCDF	2.19e+07	0.46 y	42:18	1.10	100													100
13C-1,2,3,4,7,8,9-HpCDF	1.74e+07	0.44 y	45:08	0.85	103													103
13C-OCDF	4.82e+07	0.94 y	50:10	1.17	206													103
37Cl-2,3,7,8-TCDD	2.51e+06		27:24	0.97	10.0													100
13C-1,2,3,4-TCDD	2.57e+07	0.74 y	26:48	-	98.3													
13C-1,2,3,4-TCDF	4.56e+07	0.81 y	25:32	-	98.8													
13C-1,2,3,7,8,9-HxCDD	1.99e+07	1.34 y	39:12	-	97.0													
										Fac Noise-1	Noise-2	DL	#Hom					
Total Tetra-Dioxins	1.39e+07		24:23	1.02	55.3		2.50	-	*									20
Total Penta-Dioxins	2.72e+07		30:15	0.96	110		2.50	-	*									13
Total Hexa-Dioxins	4.52e+07		36:09	1.36	173		2.50	-	*									14
Total Hepta-Dioxins	2.21e+07		42:51	1.17	105		2.50	-	*									10
Total Tetra-Furans	2.16e+07		23:02	1.29	41.7		2.50	-	*									18
1st Fn. Tot Penta-Furans	1.85e+07		28:26	0.90	51.9		2.50	-	*	PeCDF								1
Total Penta-Furans	5.36e+07		30:11	0.90	151		2.50	-	*	203								9
Total Hexa-Furans	8.22e+07		35:16	0.99	237		2.50	-	*									15
Total Hepta-Furans	2.95e+07		42:19	1.47	102		2.50	-	*									4

Analyst: 

Date: 11/19/09

Frontier Analytical Laboratory - Acquisition Log

Run Name: 18NOV09M

Instrument: FAL3

GC: DB5

Experiment: PCDD

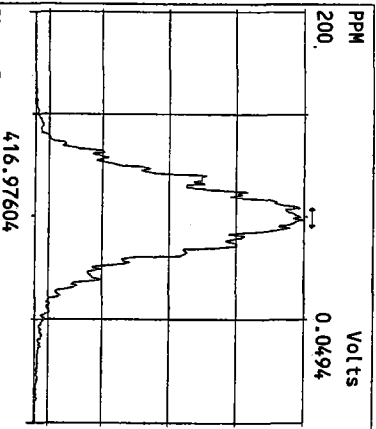
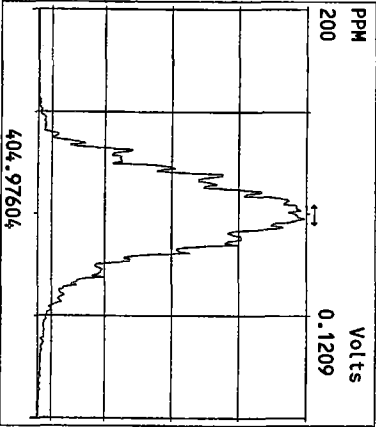
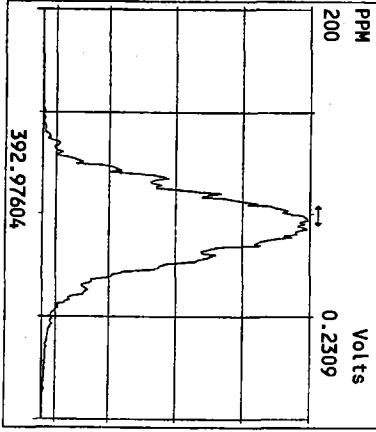
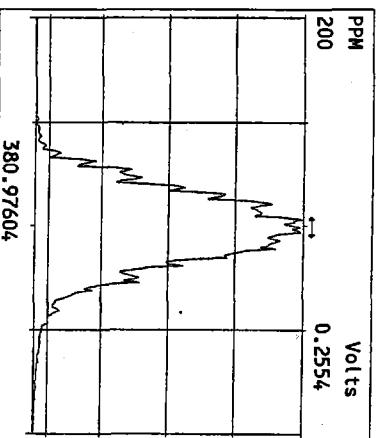
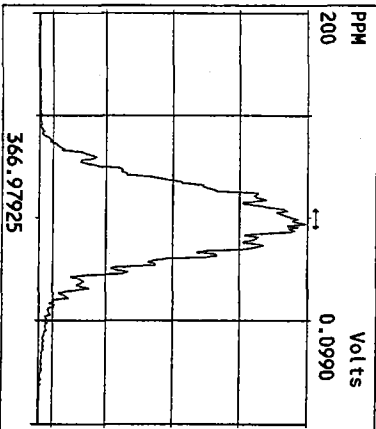
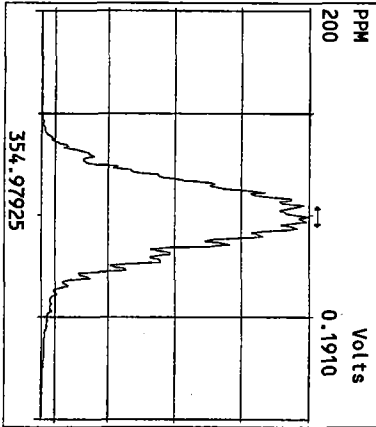
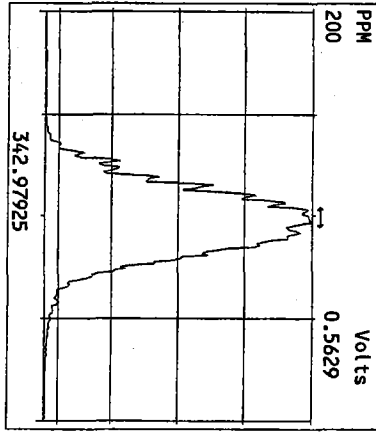
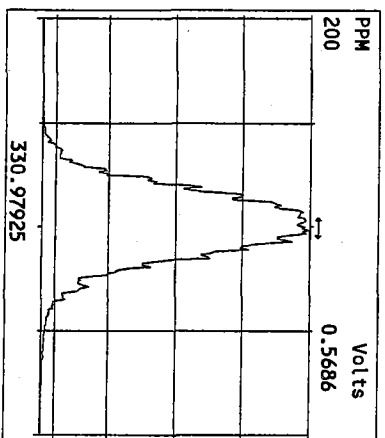
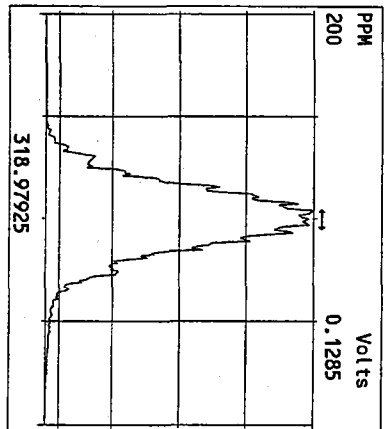
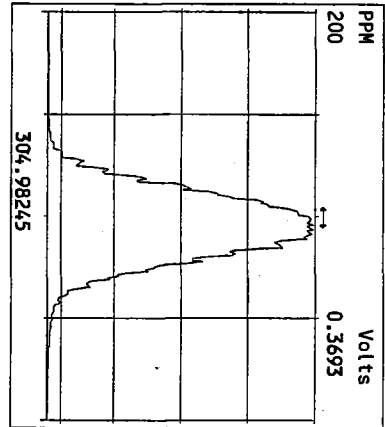
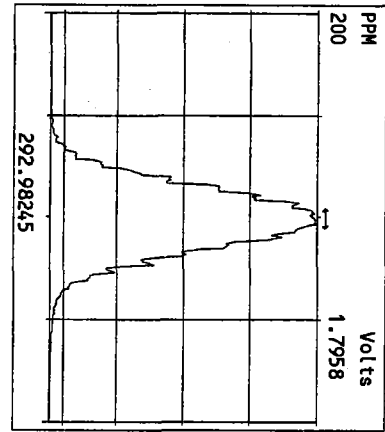
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18NOV09M	3	ST111809M1	1613 CS1 090918H	18-NOV-09 15:36:11	ST111809M3	ST111809M6	BS
18NOV09M	4	ST111809M2	1613 CS2 090918I	18-NOV-09 16:31:26	ST111809M3	ST111809M6	BS
18NOV09M	5	ST111809M4	1613 CS4 090918K	18-NOV-09 17:26:40	ST111809M3	ST111809M6	BS
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18NOV09M	7	SB111809M1	Solvent Blank	18-NOV-09 19:17:18	ST111809M3	ST111809M6	BS
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18NOV09M	14	SB111809M2	Solvent Blank	19-NOV-09 01:44:25	ST111809M3	ST111809M6	BS
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18NOV09M	22	5820-004-0001-SA	EDS-107-106+69-W4-7.5	19-NOV-09 09:06:32	ST111809M6	ST111809M7	BS
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18NOV09M	26	SB111809M5	Solvent Blank	19-NOV-09 12:47:43	ST111809M6	ST111809M7	BS
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DN 11/19/09

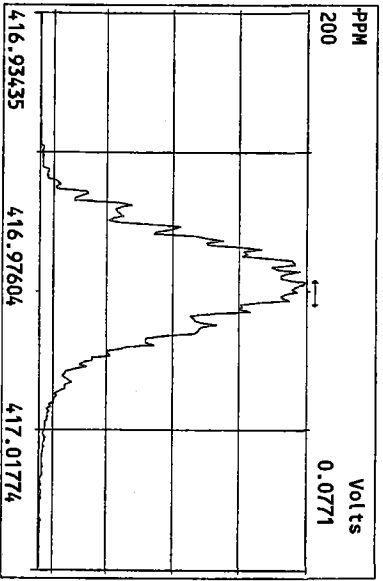
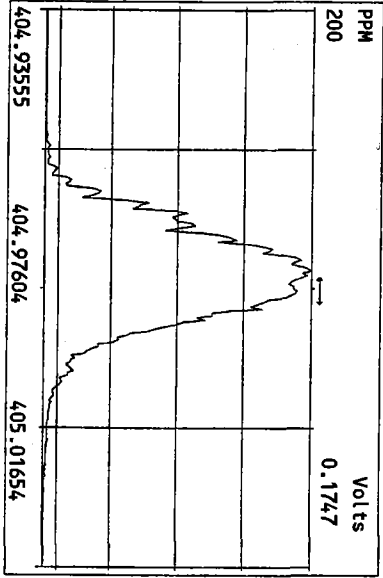
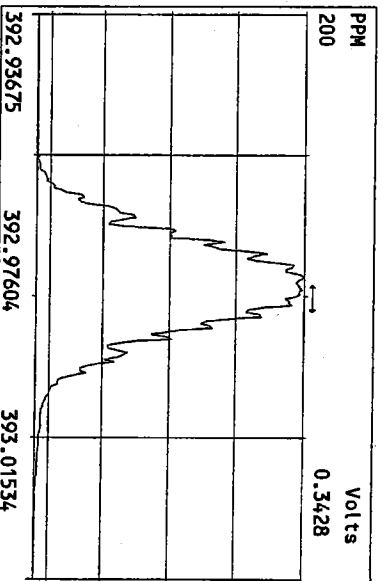
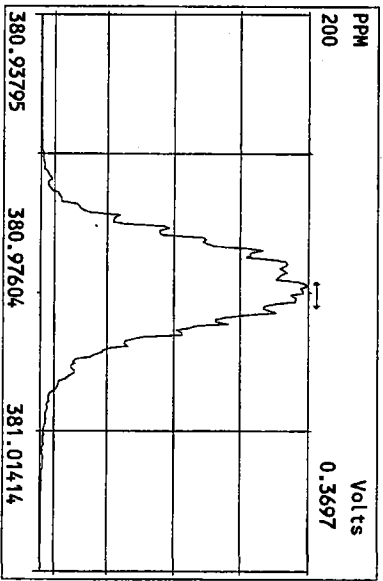
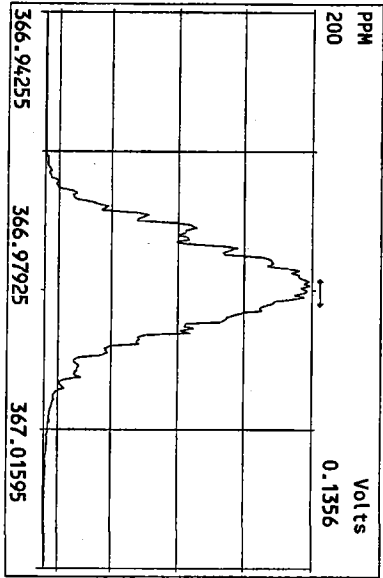
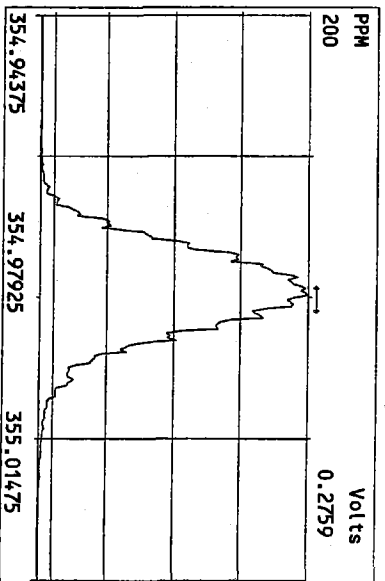
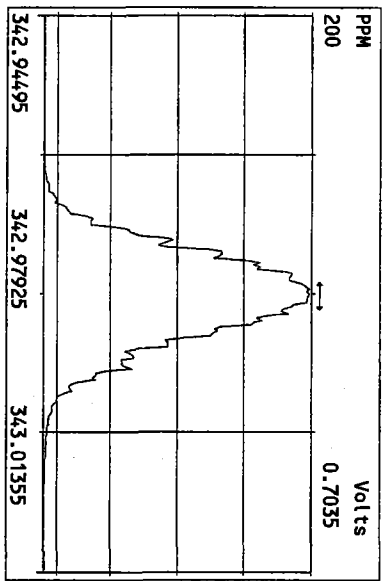
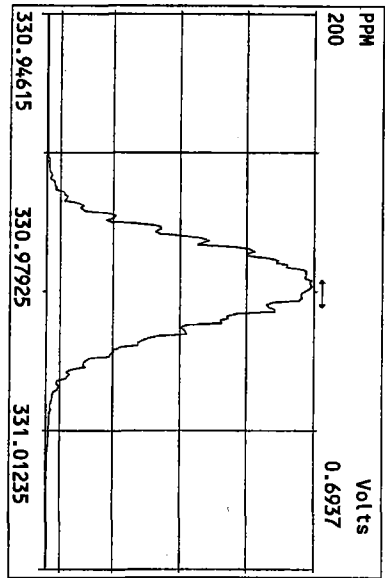
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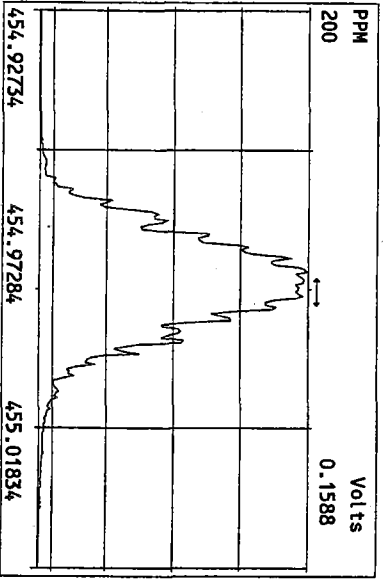
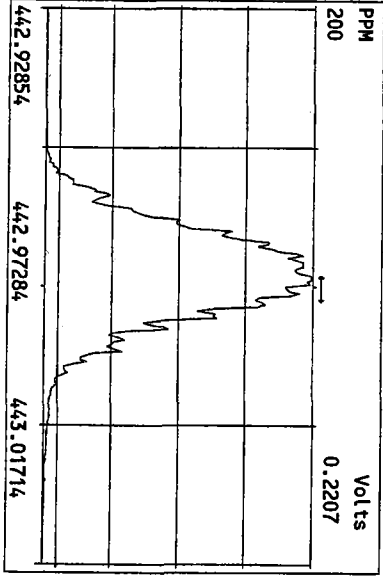
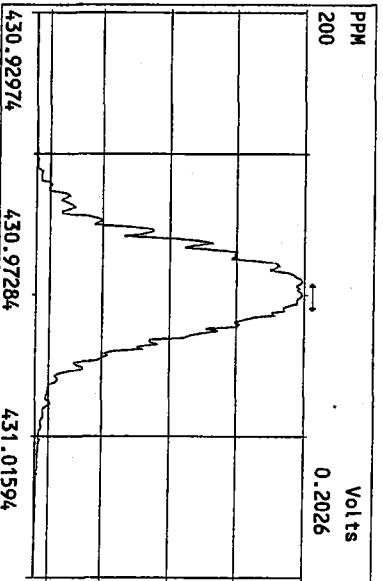
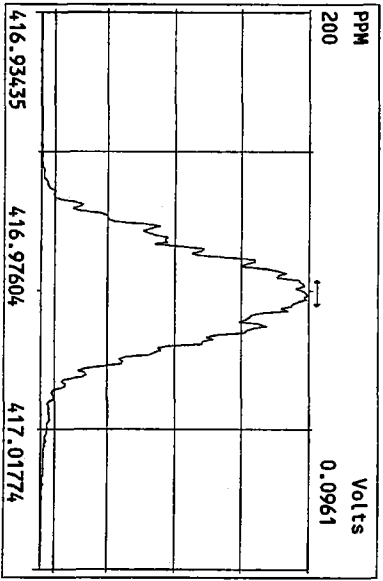
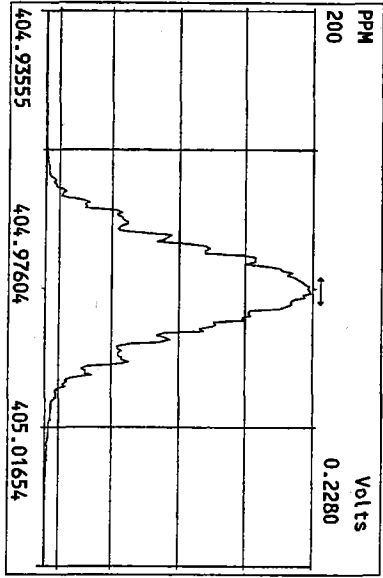
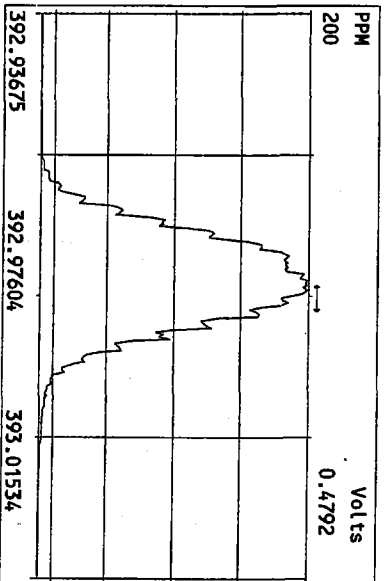
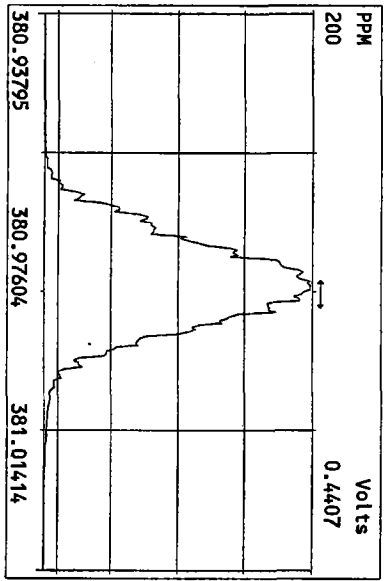
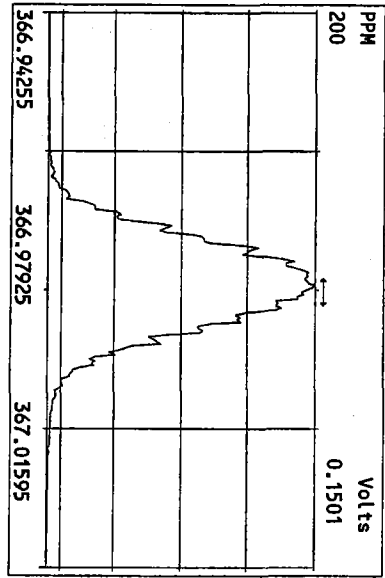
Date: _____

Peak Locate Examination:18-NOV-2009:13:42 File:18NOV09M
Experiment:PCDD Function:1 Reference:PFK

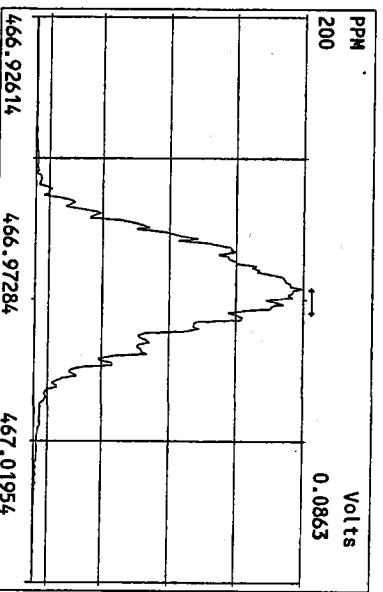
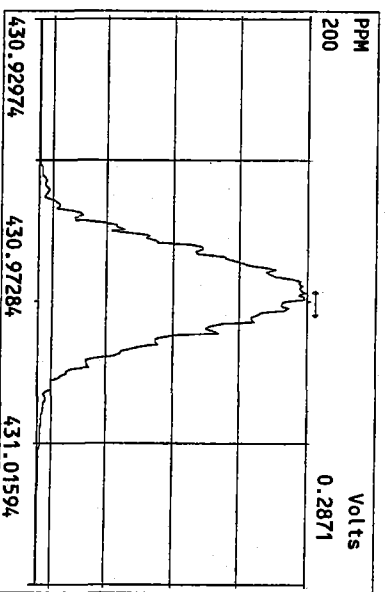
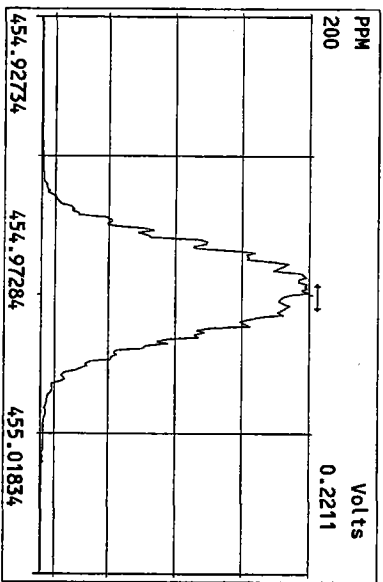
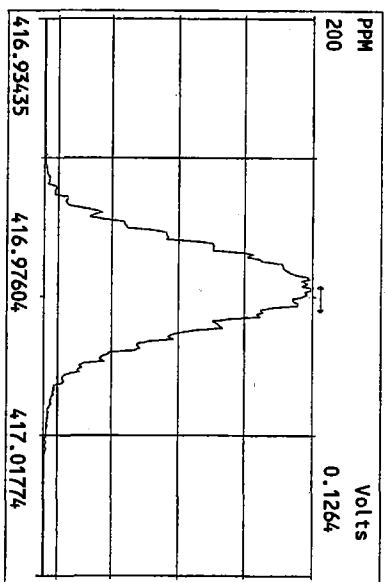
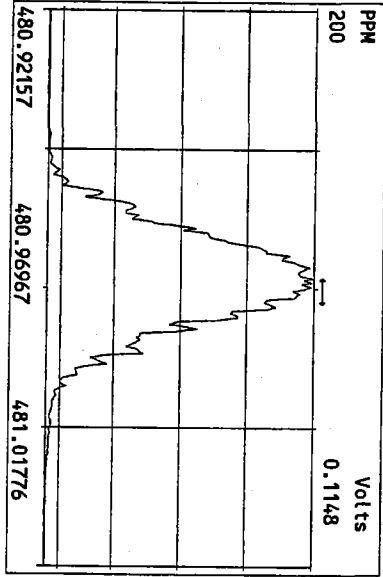
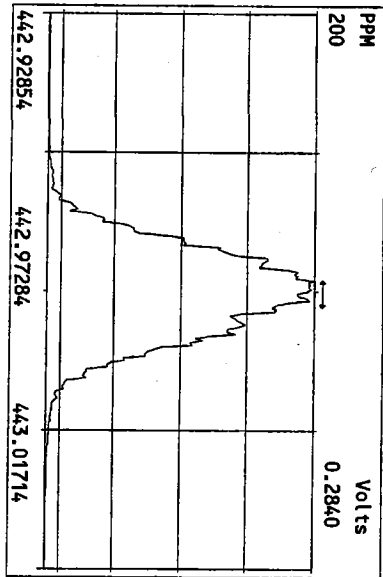
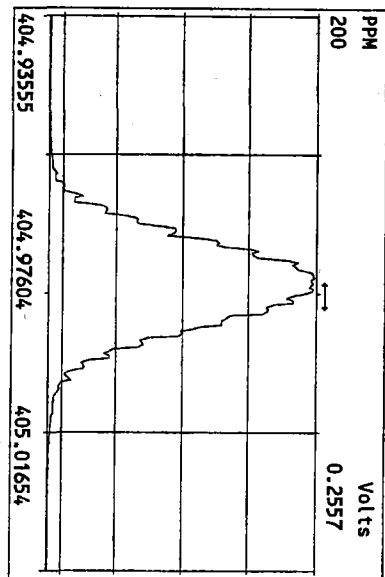


Peak Locate Examination:18-NOV-2009:13:43 File:18NOV09M
 Experiment:PCDD Function:2 Reference:PFK

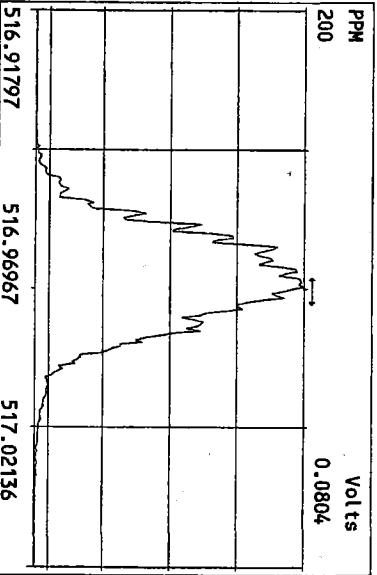
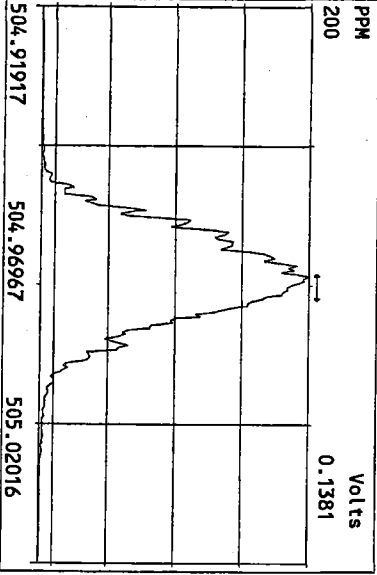
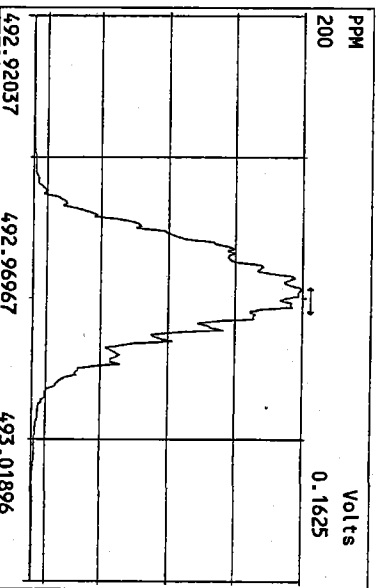
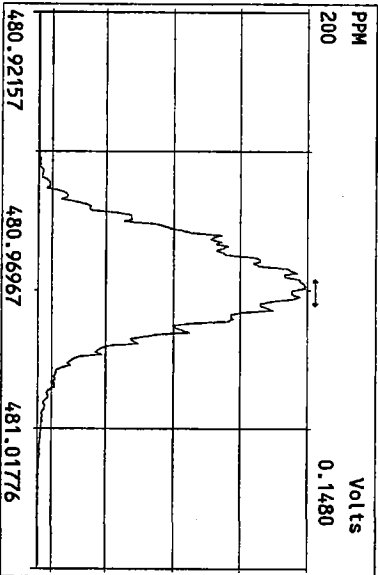
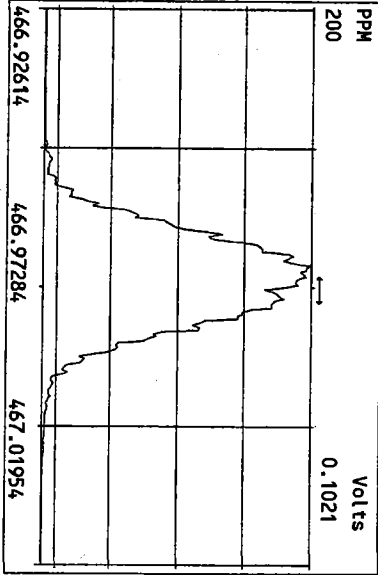
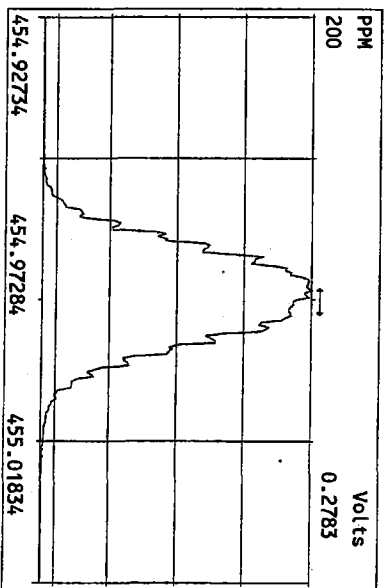
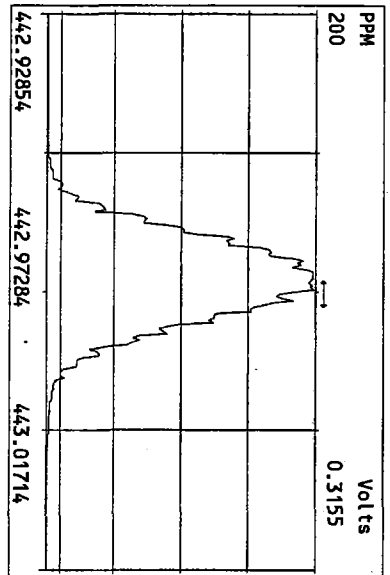
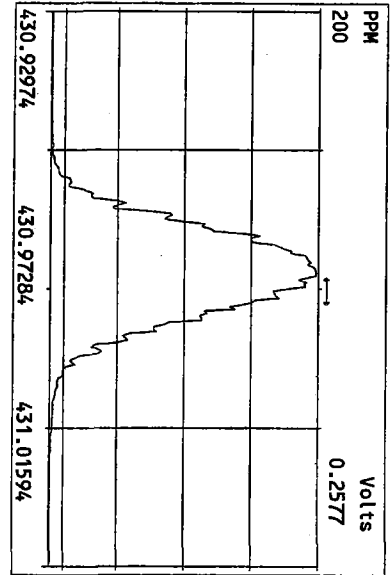




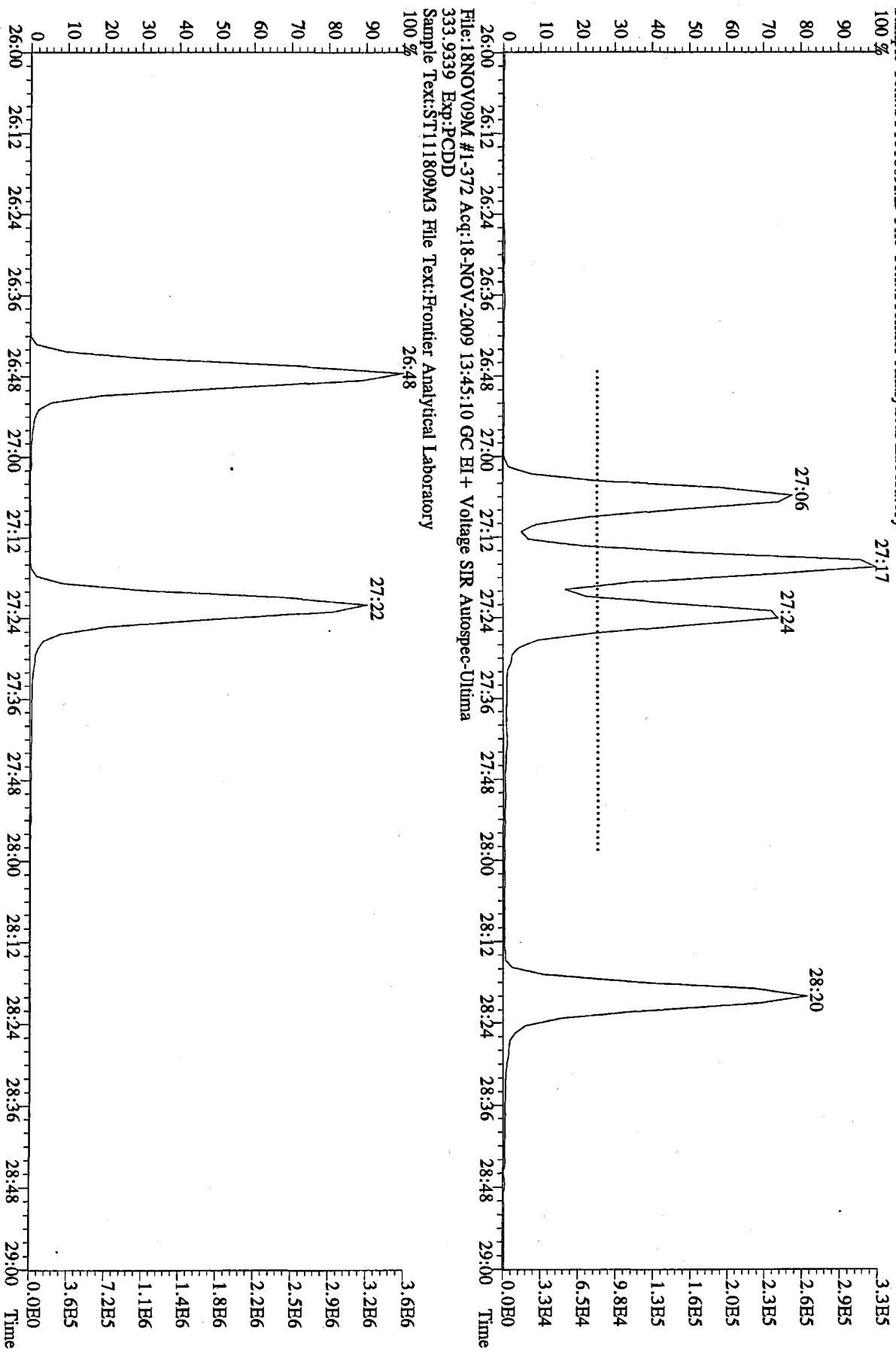
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Experiment: PCDD Function: 4 Reference: PKR



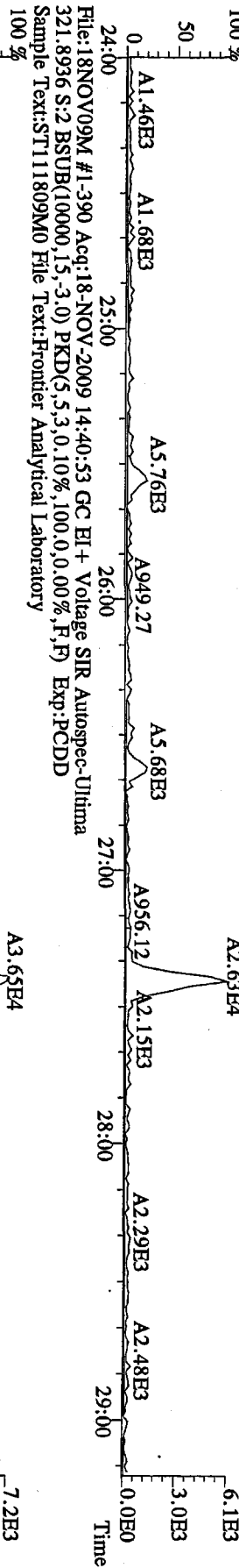
Peak Locate Examination:18-NOV-2009:13:44 File:18NOV09M
 Experiment:PCDD Function:5 Reference:PFK



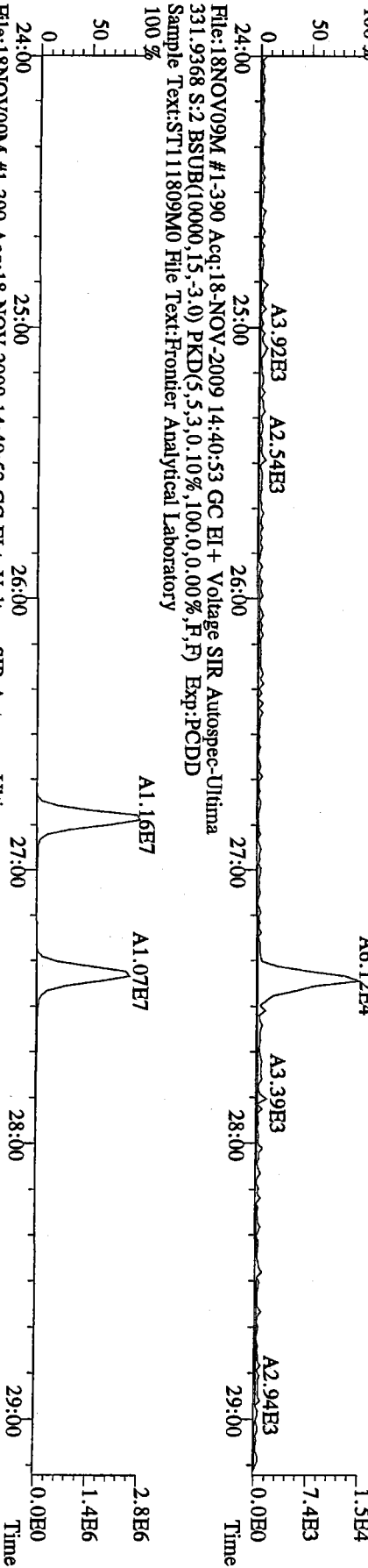
File:18NOV09M #1-372 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
319.8965 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory
100 %



File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



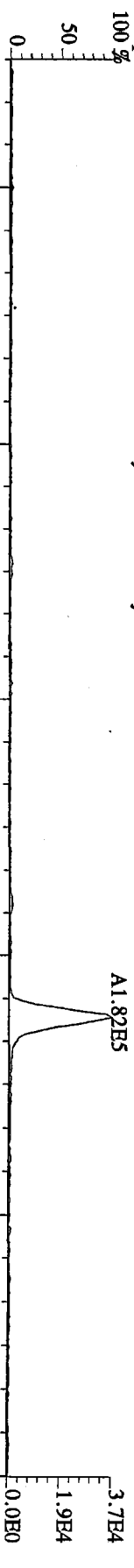
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



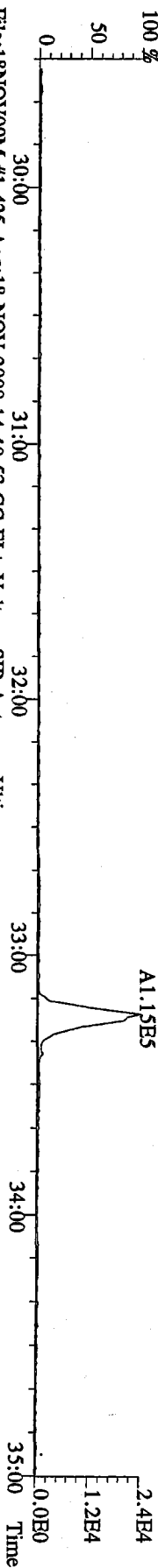
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
 333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



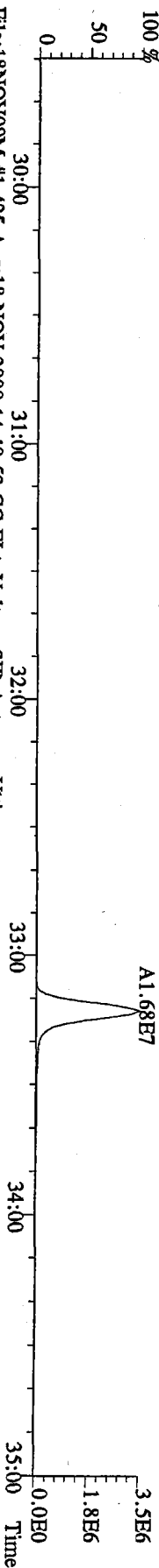
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI + Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



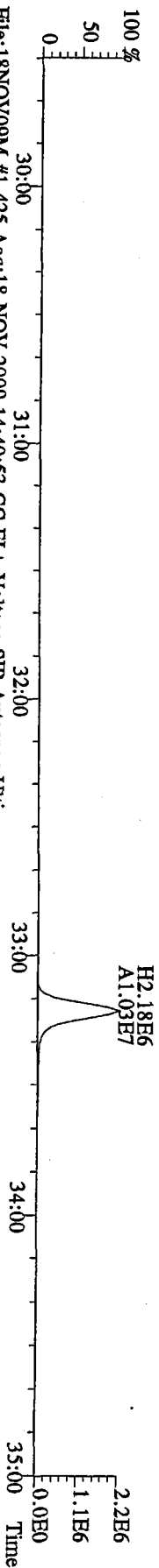
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357.8517 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



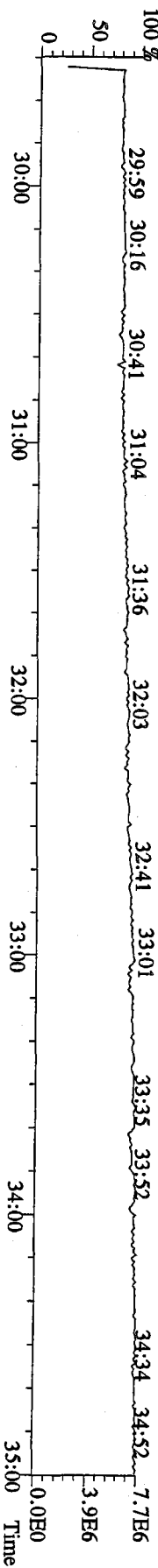
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI + Voltage SIR Autospec-Ultima
367.8949 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



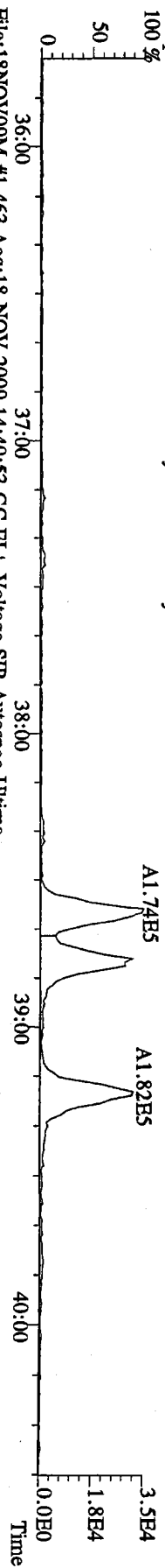
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI + Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



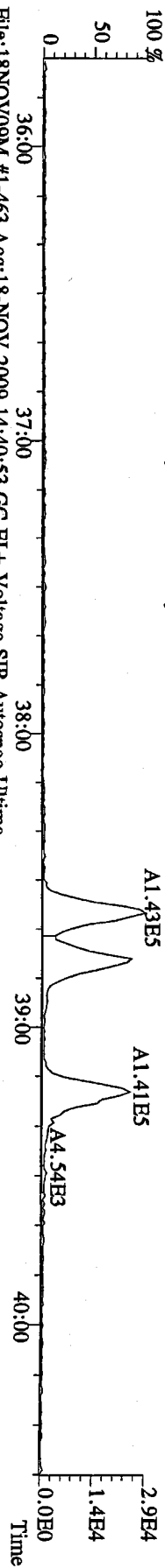
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI + Voltage SIR Autospec-Ultima
366.9792 S:2 F:2 Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



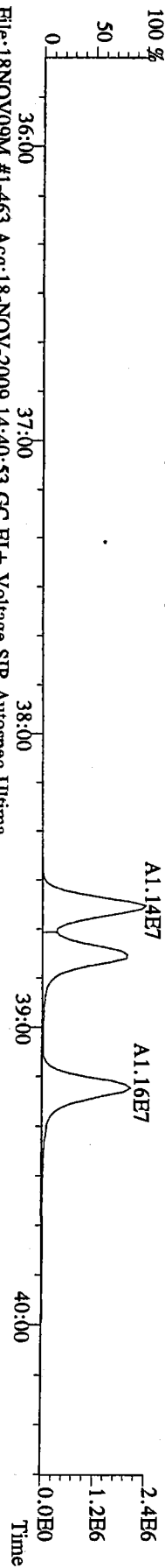
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



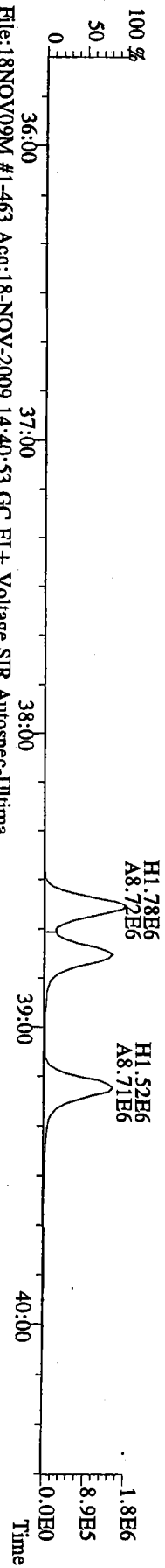
File:18NOV09M #1-463 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



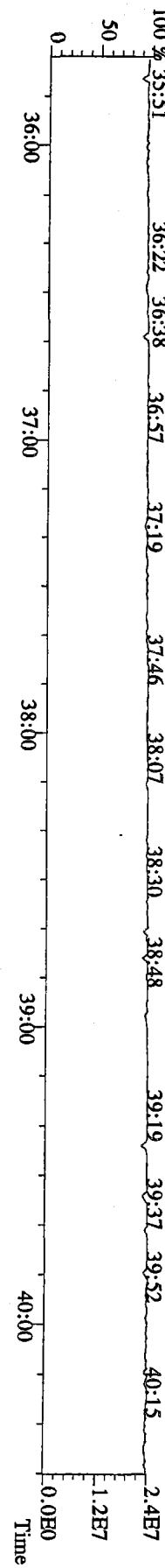
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 401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



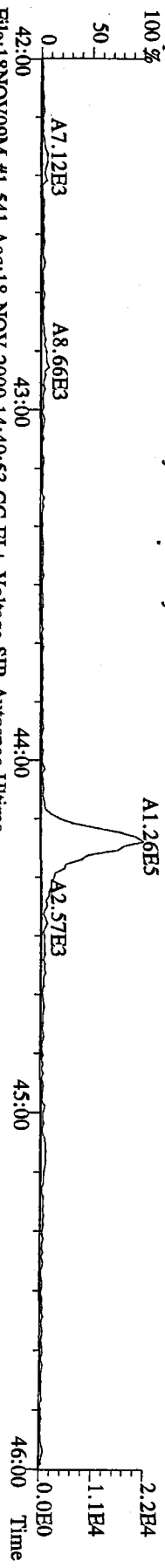
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 403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



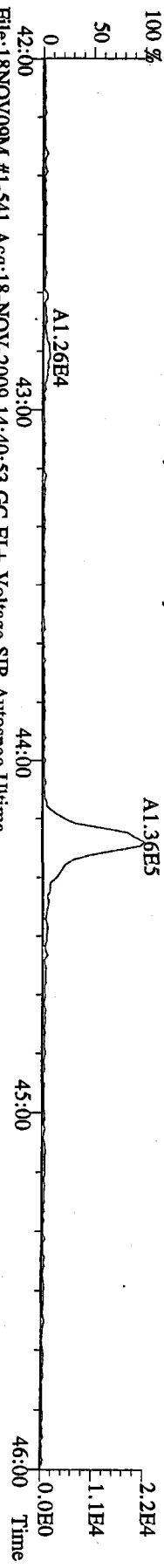
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 380.9760 S:2 F:3 Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



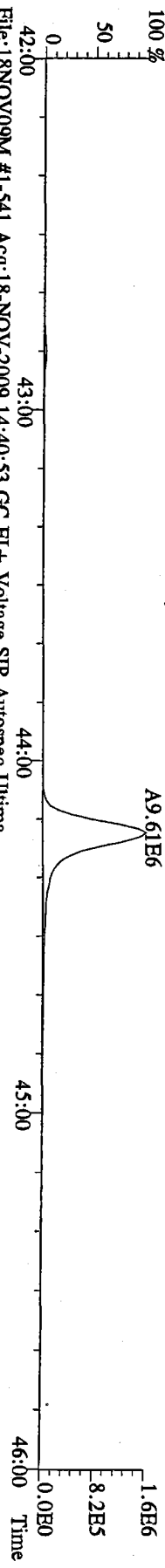
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
100 %



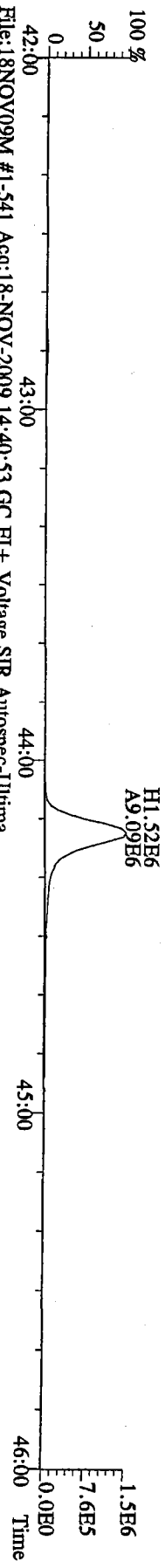
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
100 %



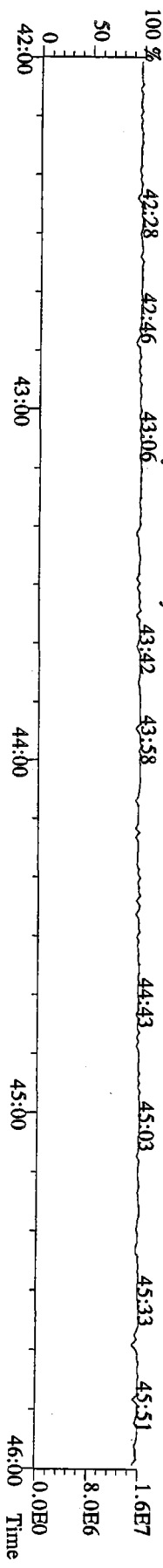
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
100 %



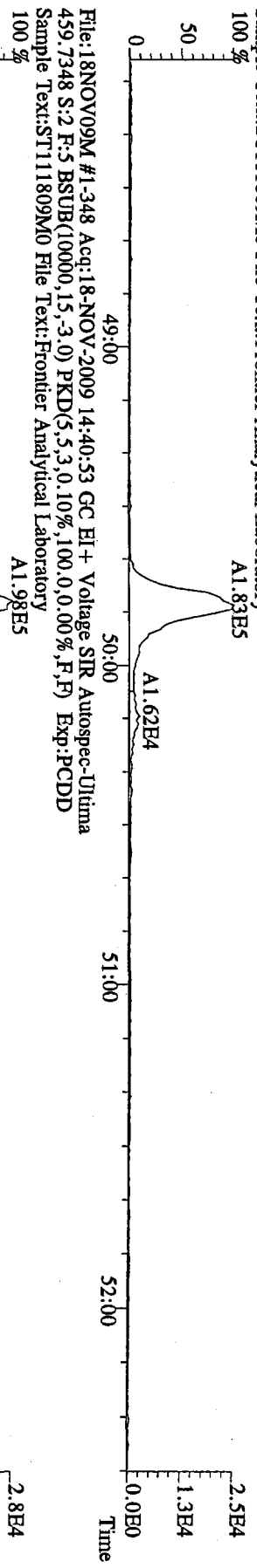
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437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



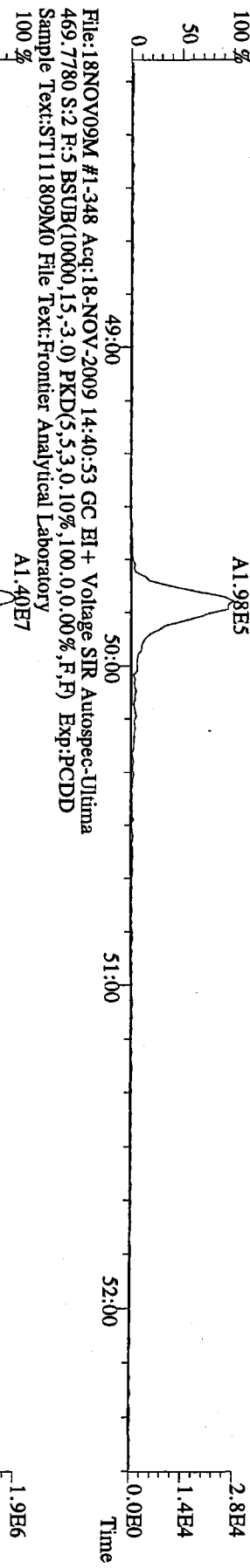
File:18NOV09M #1-541 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:2 F:4 Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



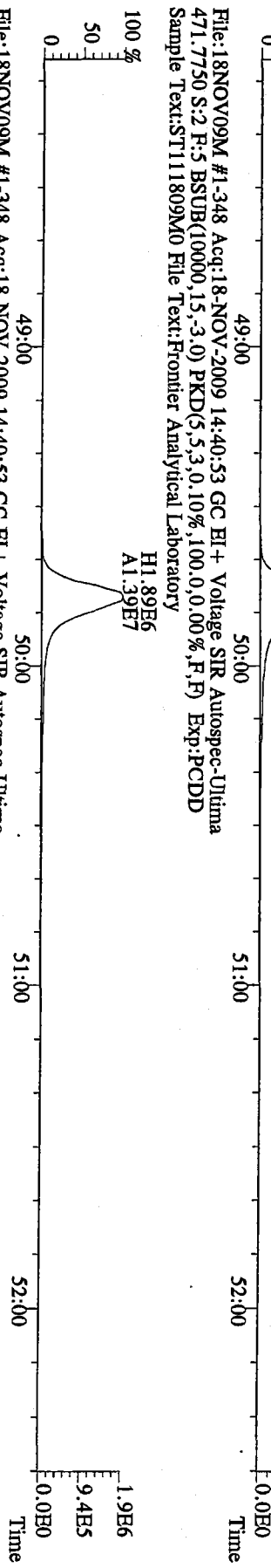
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Utima
 457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
 100 %



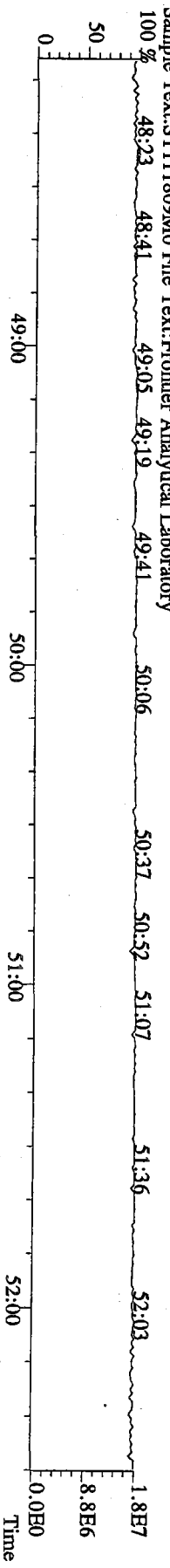
File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Utima
 459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
 100 %



File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Utima
 471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
 100 %



File:18NOV09M #1-348 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Utima
 454.9728 S:2 F:5 Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
 100 %

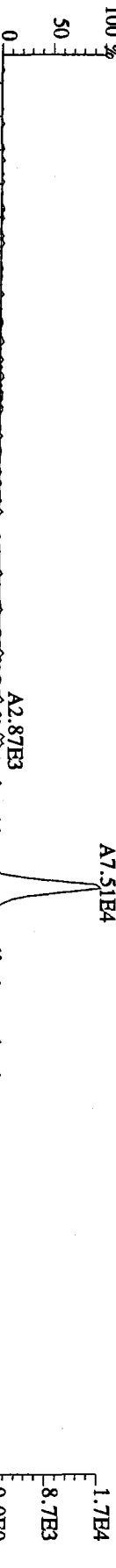


18NOV09M

File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:2 BSUB(10000,15,0,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



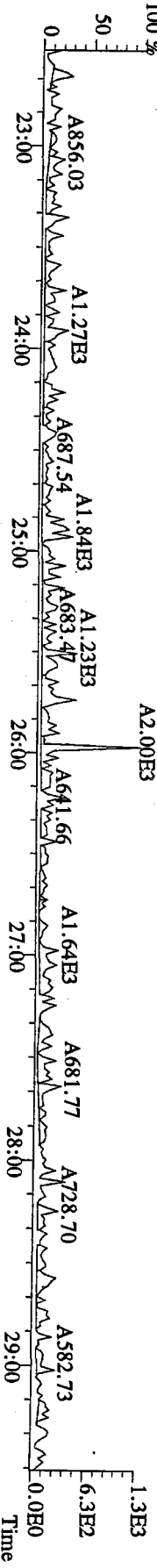
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



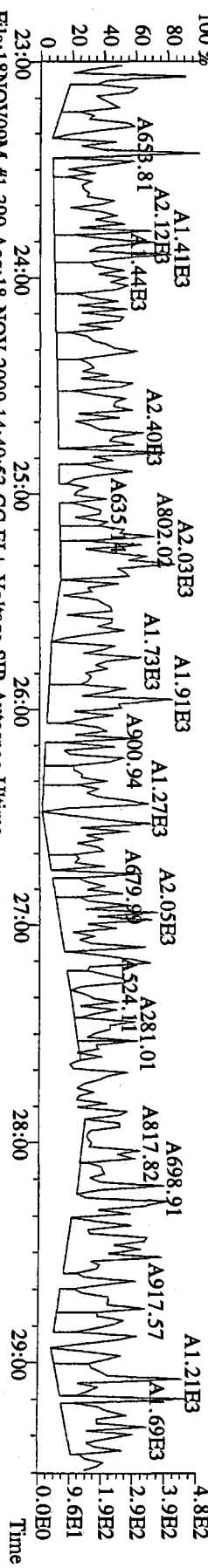
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



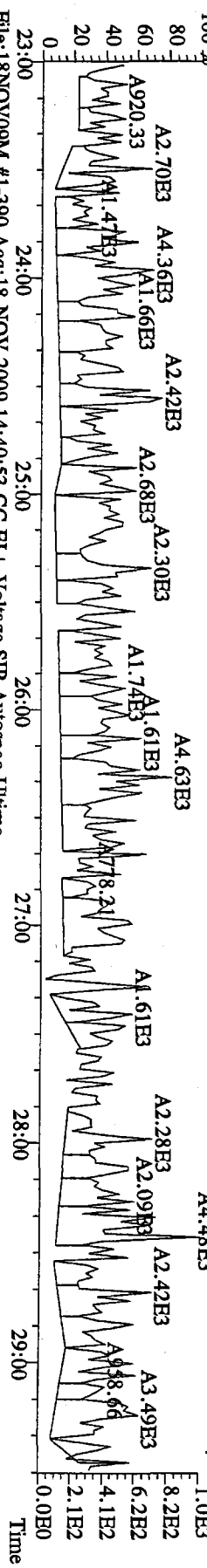
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



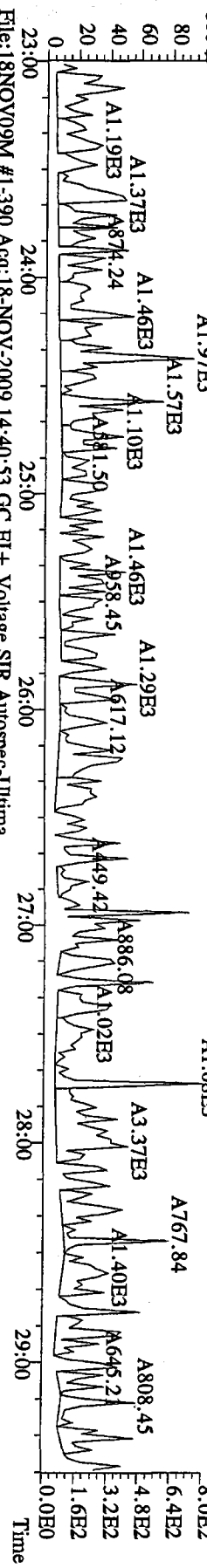
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



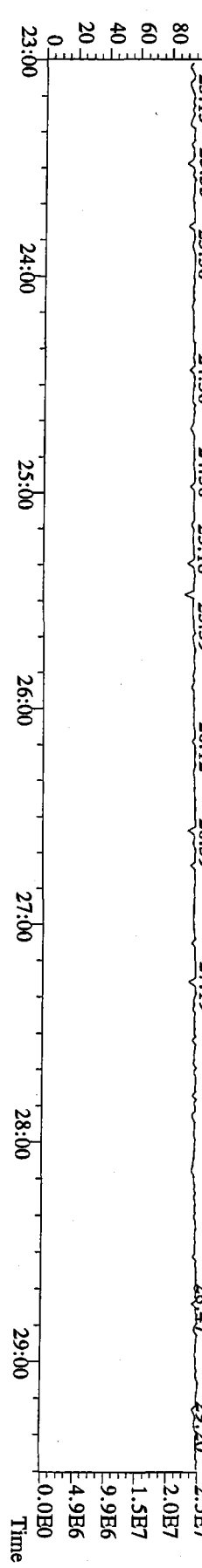
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



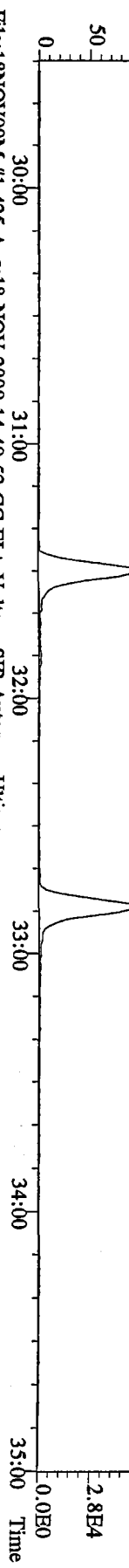
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 409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



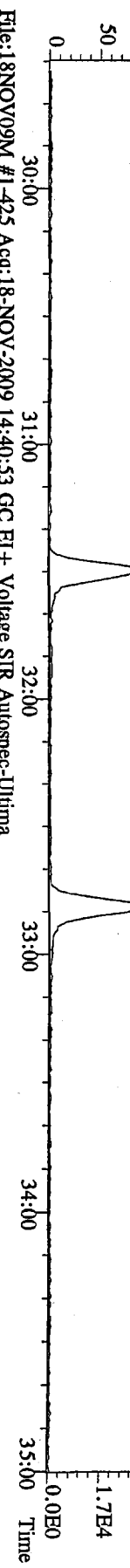
File:18NOV09M #1-390 Acq:18-NOV-2009 14:40:53 GC EI + Voltage SIR Autospec-Ultima
 330.9792 S:2 Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



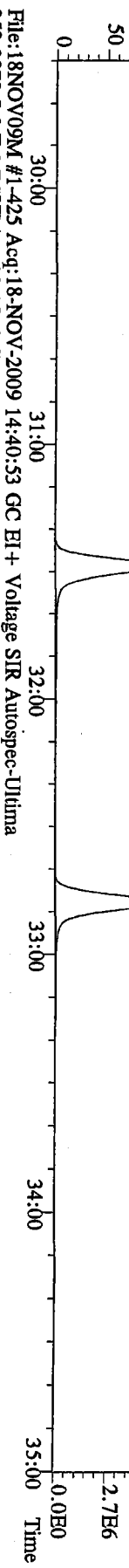
File:18NOV09M #1-425 Acq:18-NOV-2009 14:40:53 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



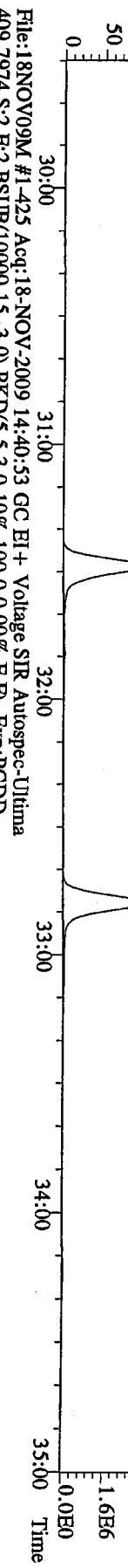
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 341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



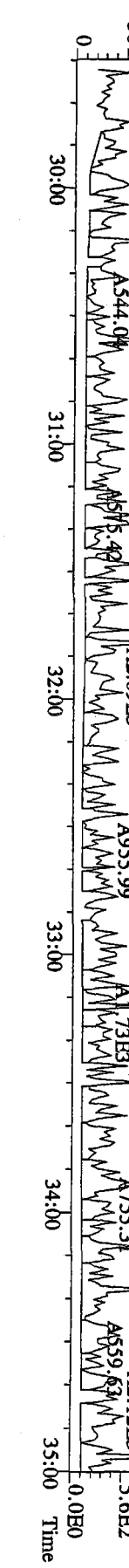
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 351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



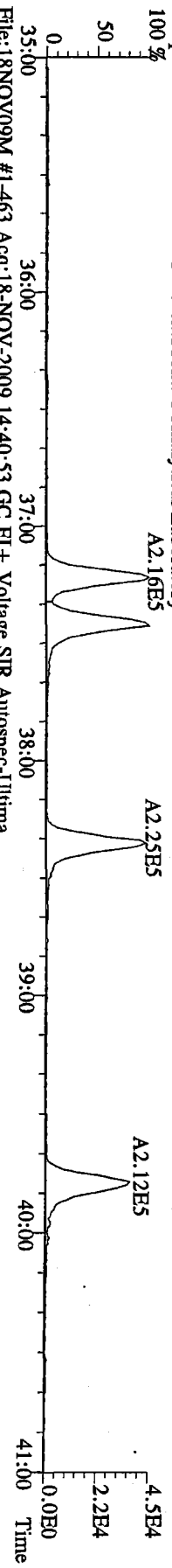
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 353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



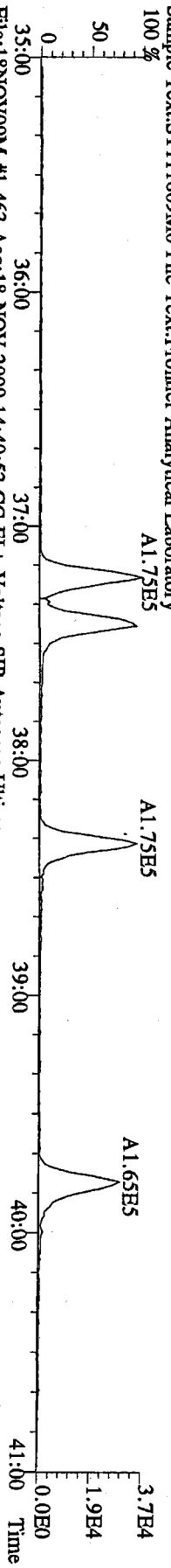
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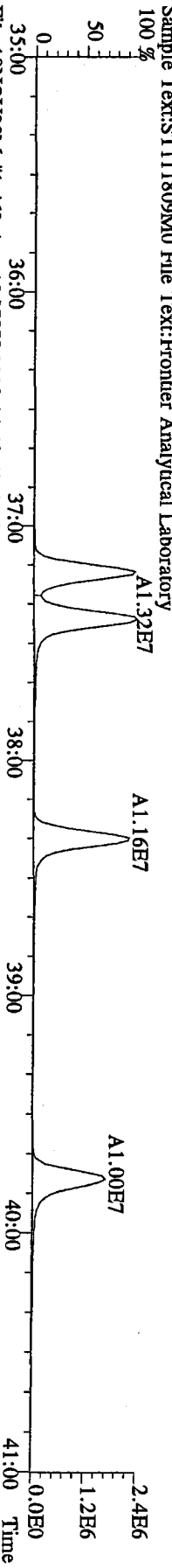
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Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
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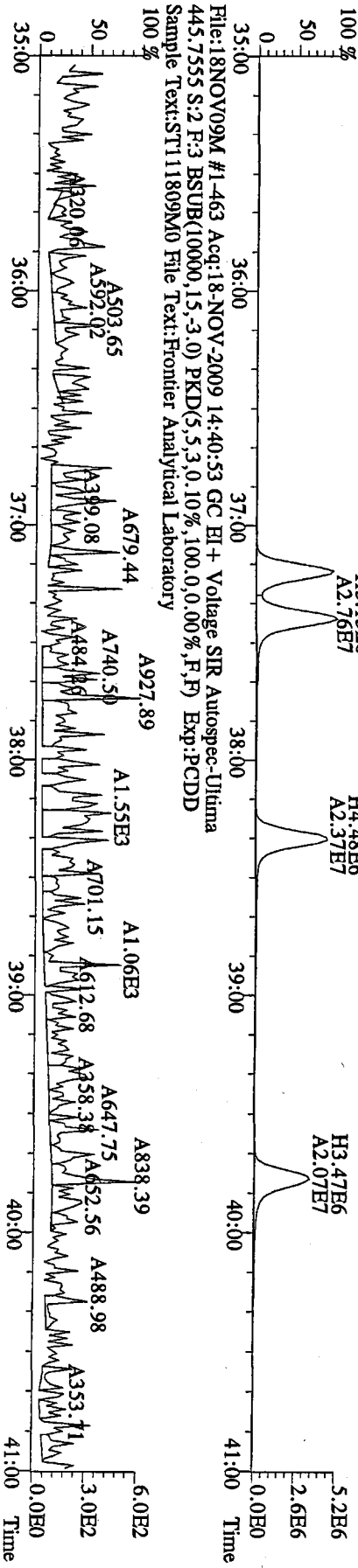
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Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
100 %



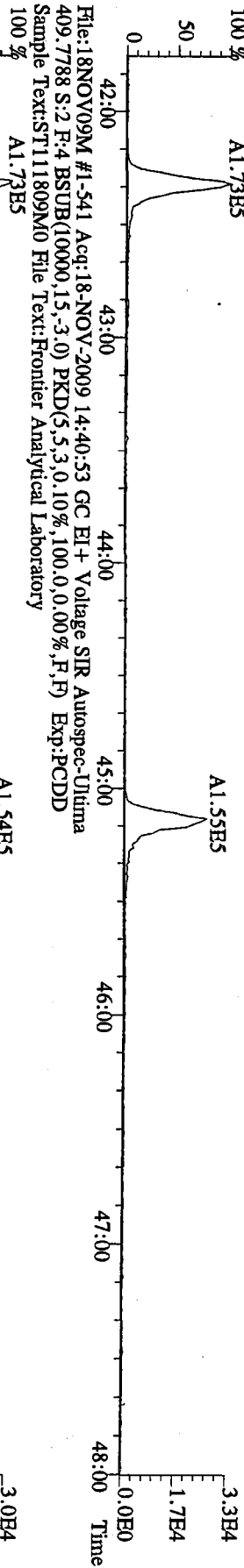
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Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
100 %



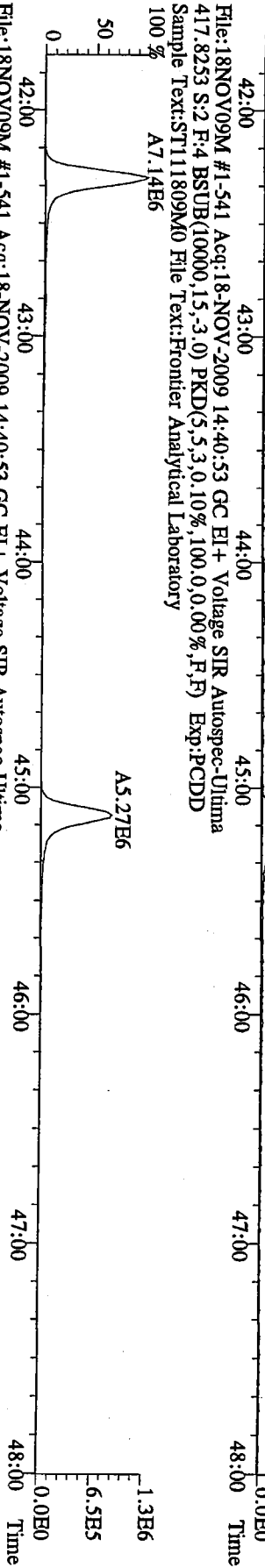
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Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
100 %



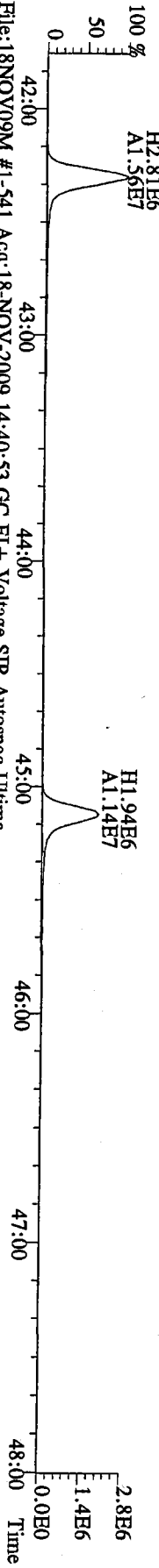
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407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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100 % A1.73B5



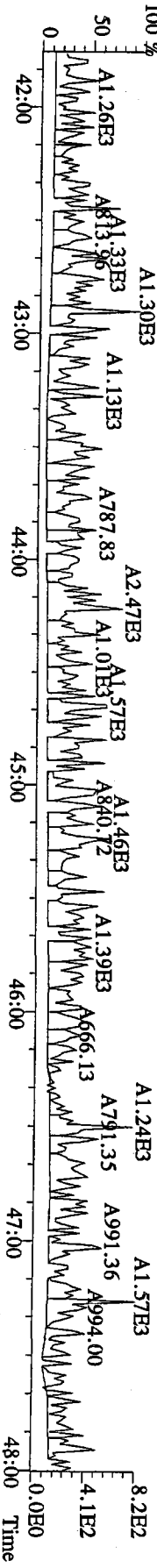
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Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
100 % A7.14B6



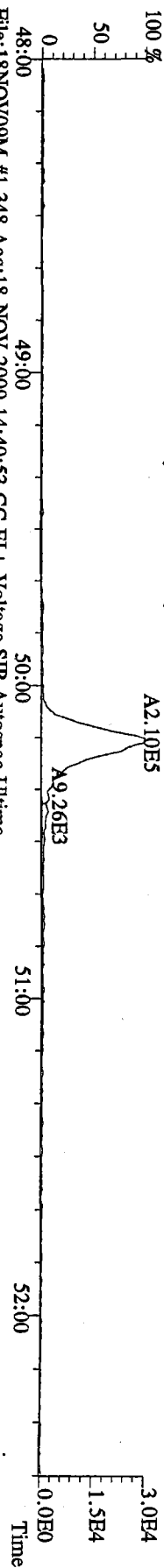
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Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



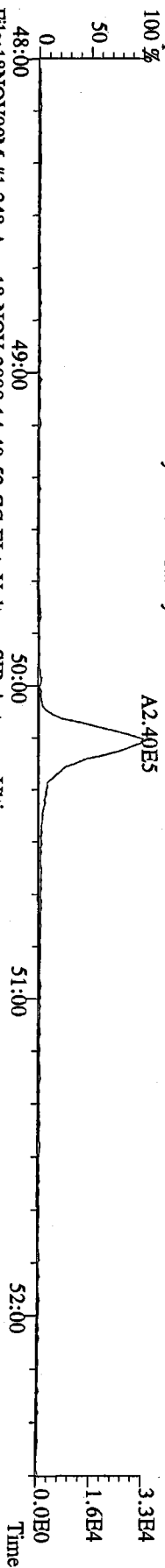
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479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



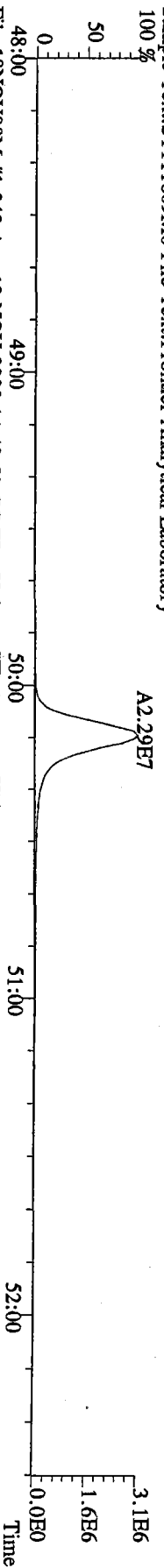
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 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
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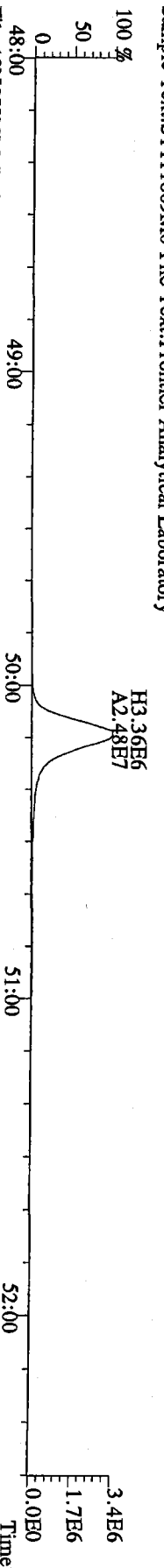
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 443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
 100 %



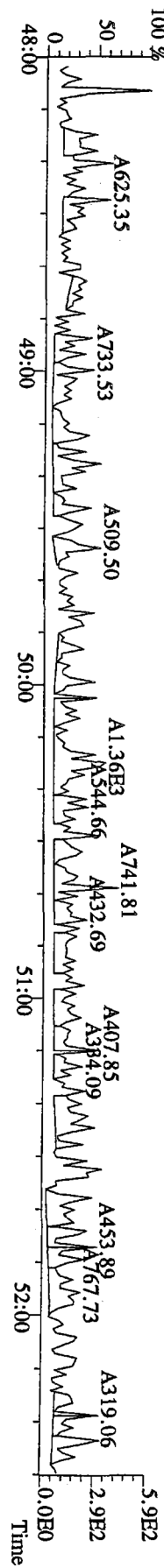
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 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory
 100 %



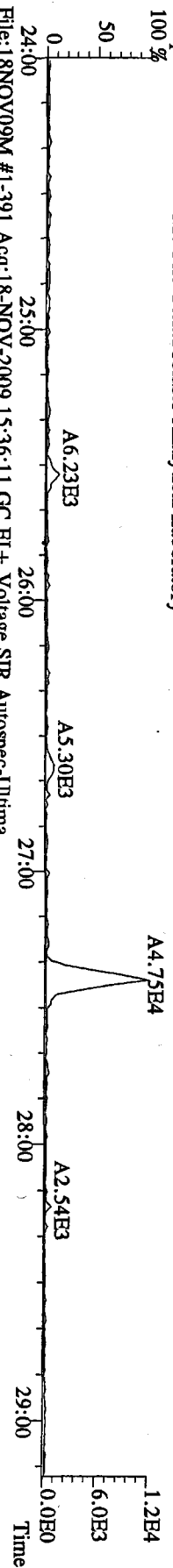
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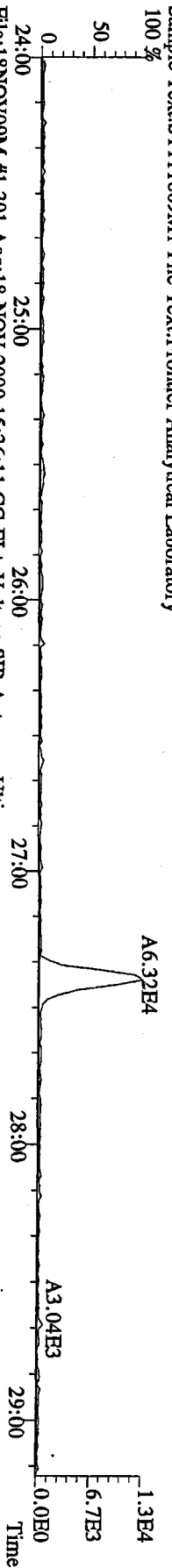
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 513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M0 File Text:Frontier Analytical Laboratory



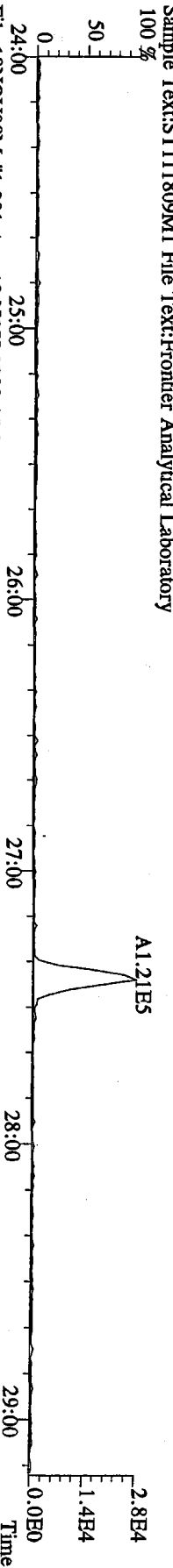
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319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



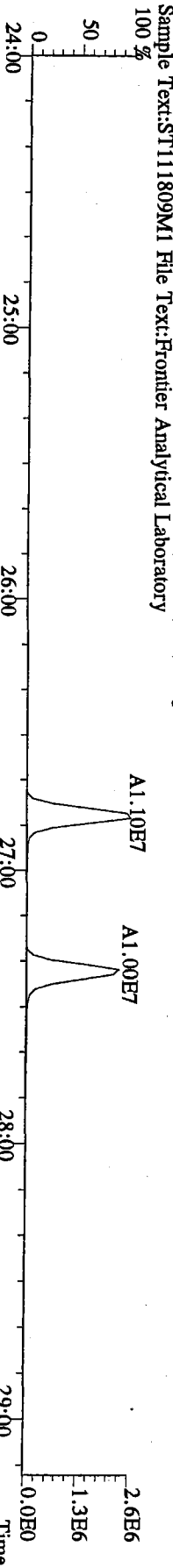
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Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



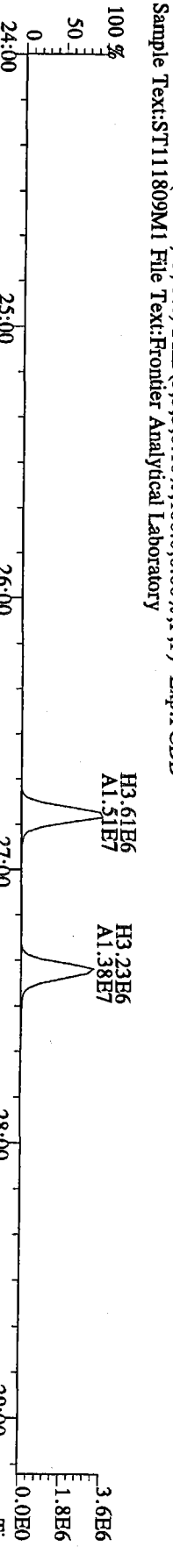
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327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



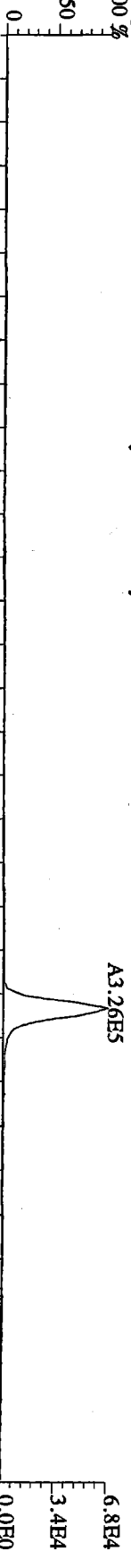
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Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



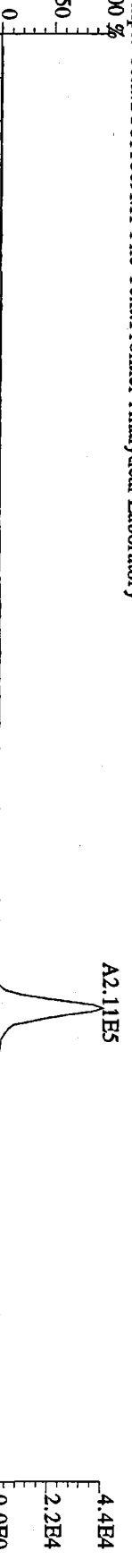
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Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-424 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



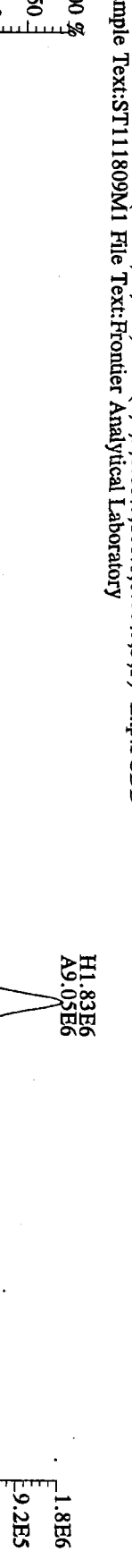
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357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
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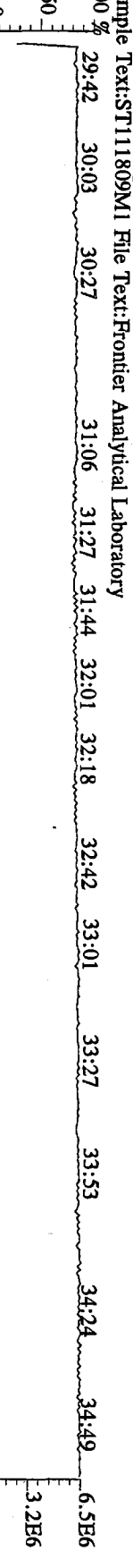
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367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
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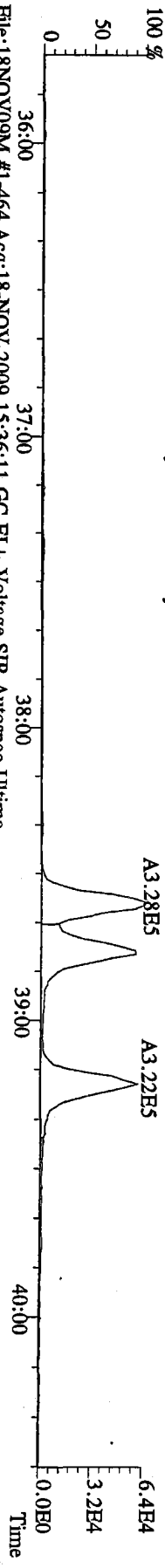
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369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



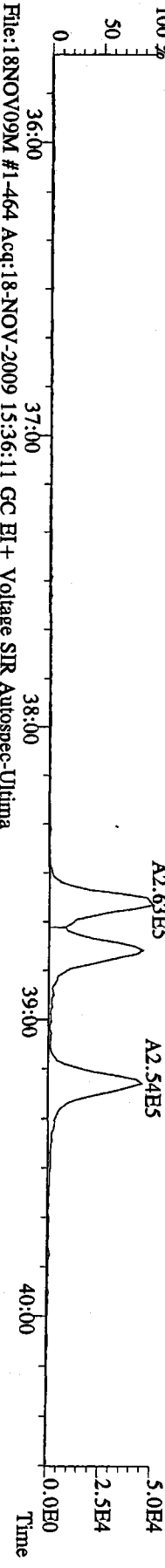
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366.9792 S:3 F:2 Exp:PCDD
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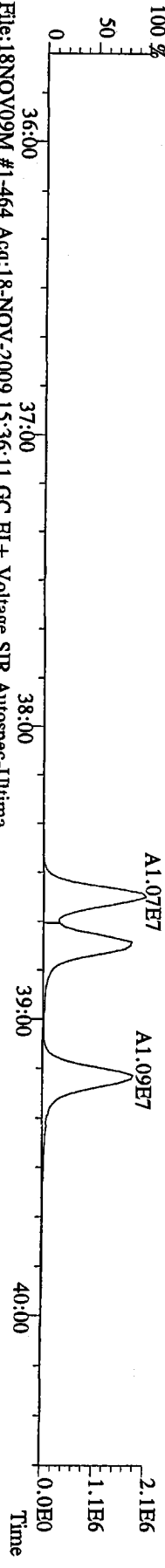
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 389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
 100 %



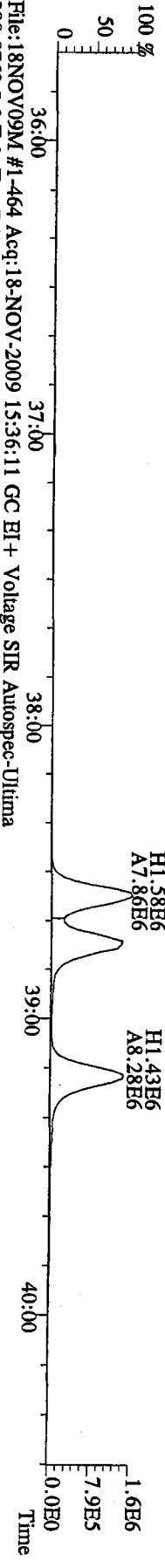
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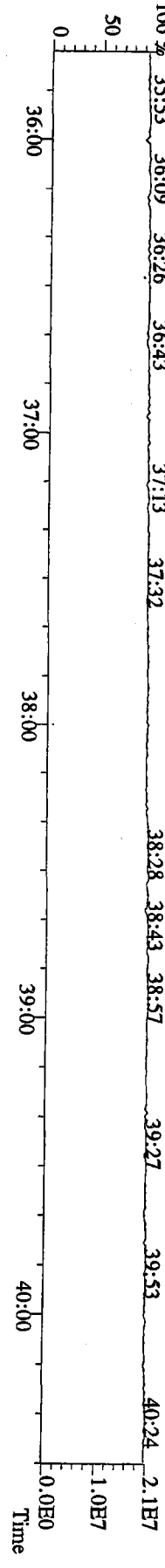
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 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
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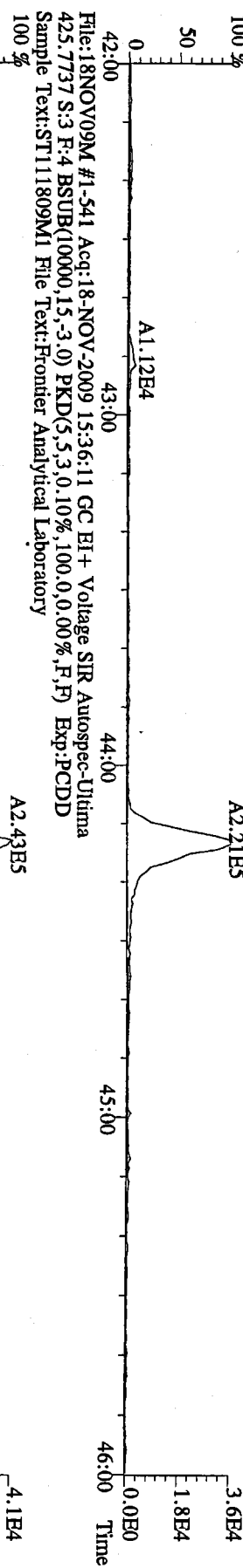
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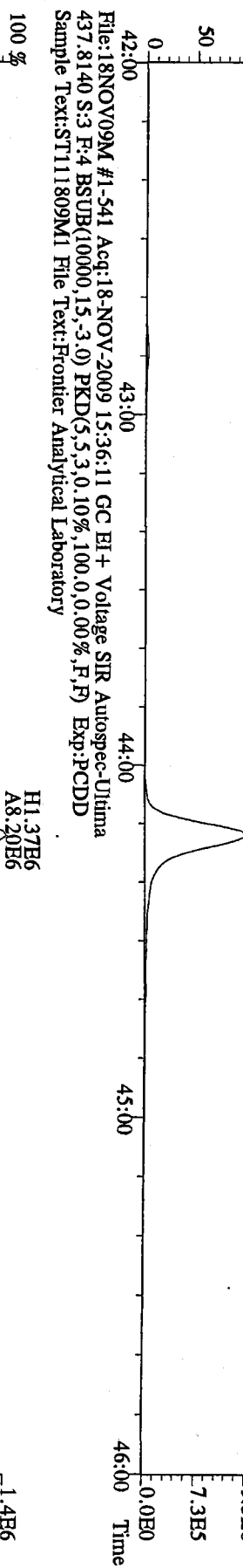
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 380.9760 S:3 F:3 Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
 100 %



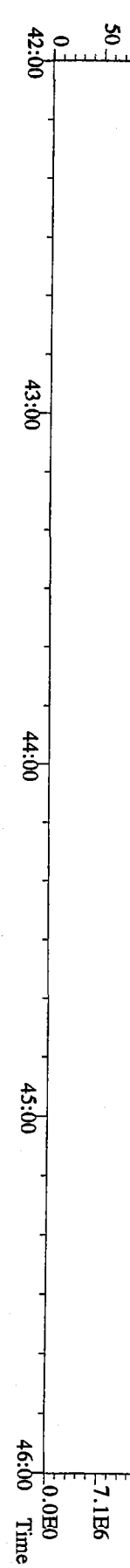
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423.7767 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



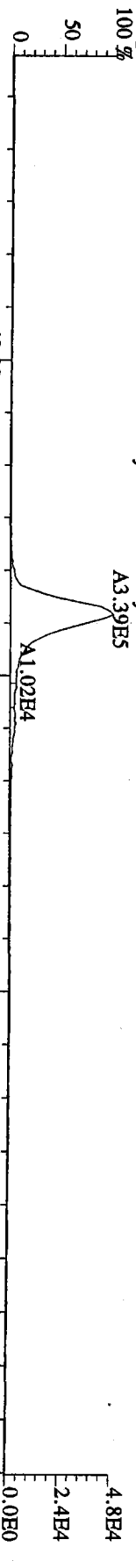
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435.8169 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



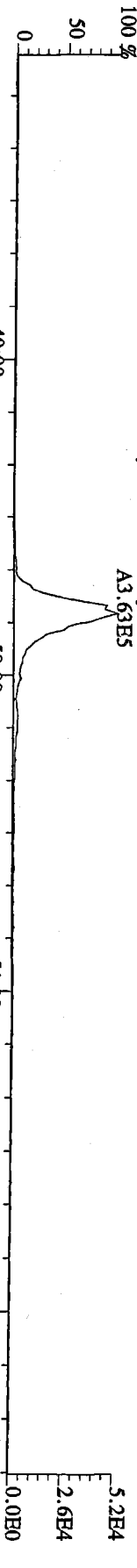
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430.9728 S:3 F:4 Exp.:PCDD
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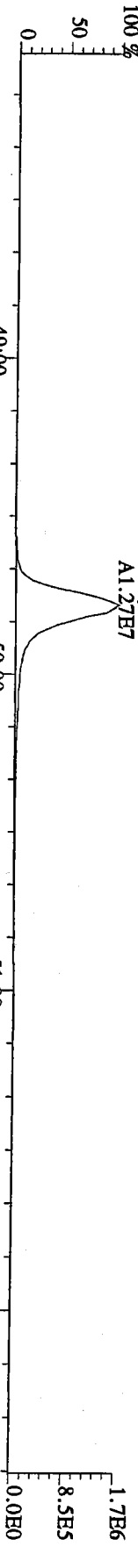
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457.7377 S.3 F.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



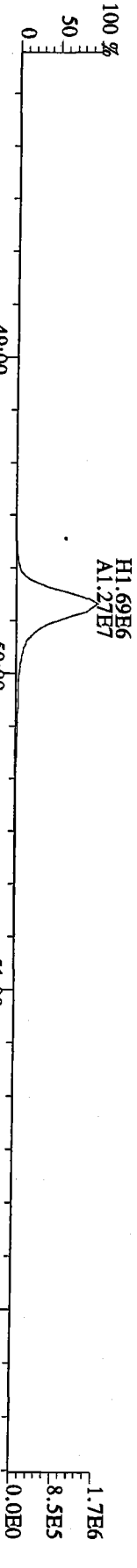
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456.7348 S.3 F.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



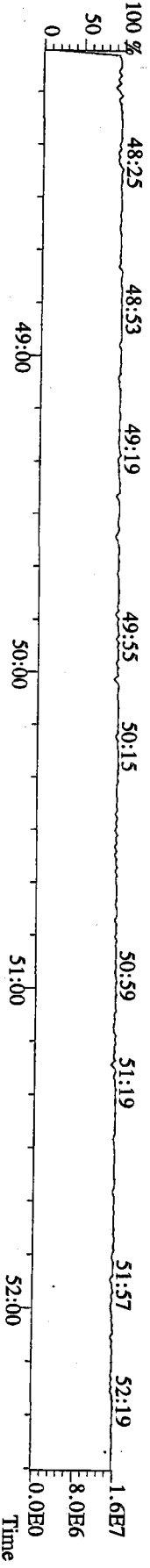
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469.7780 S.3 F.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
100 %



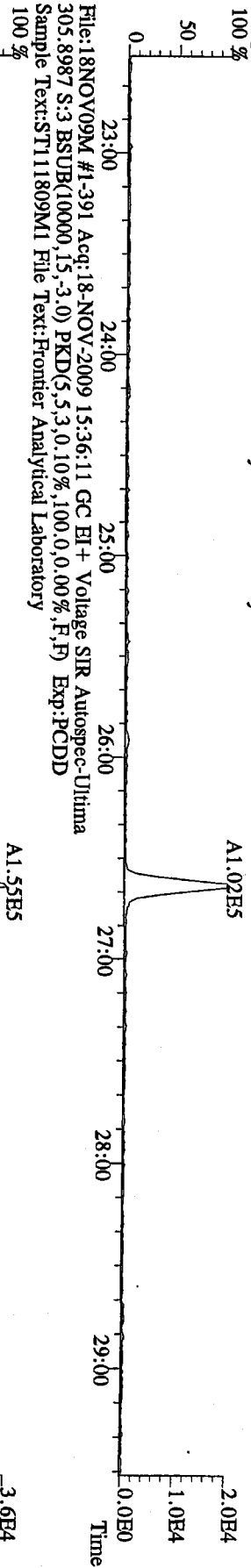
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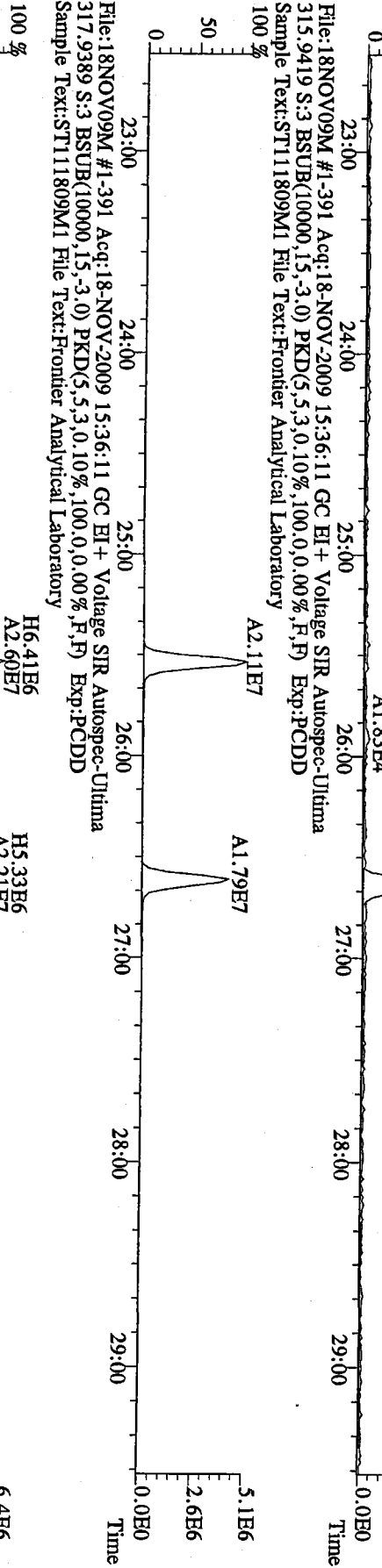
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454.9728 S.3 F.5 Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



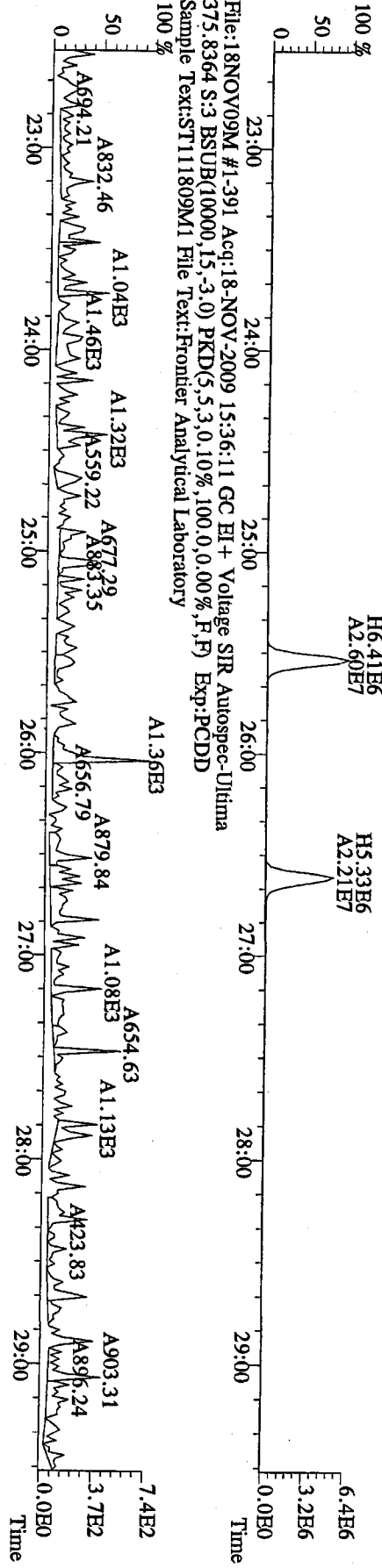
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305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



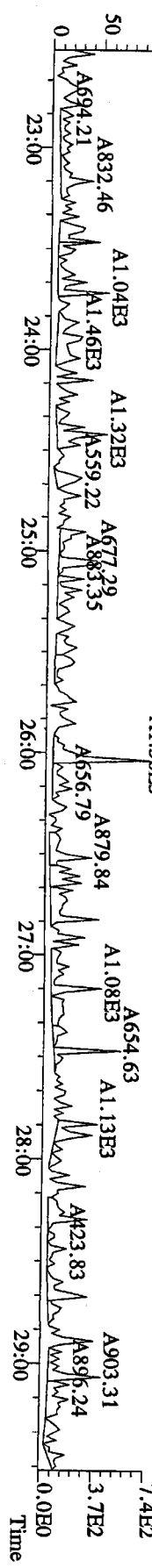
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315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



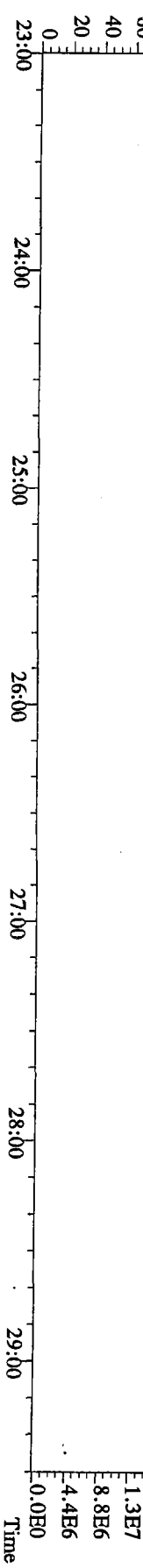
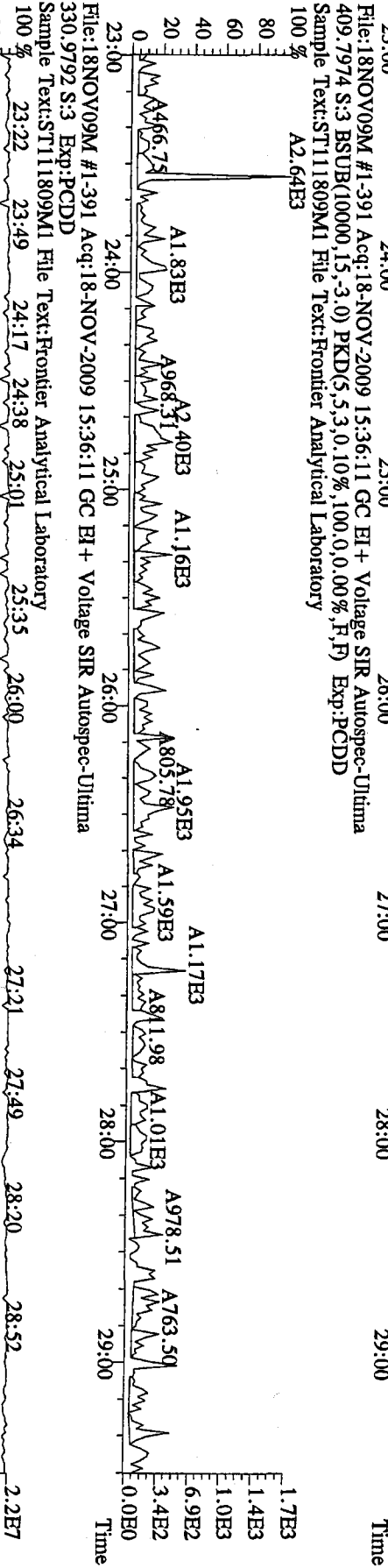
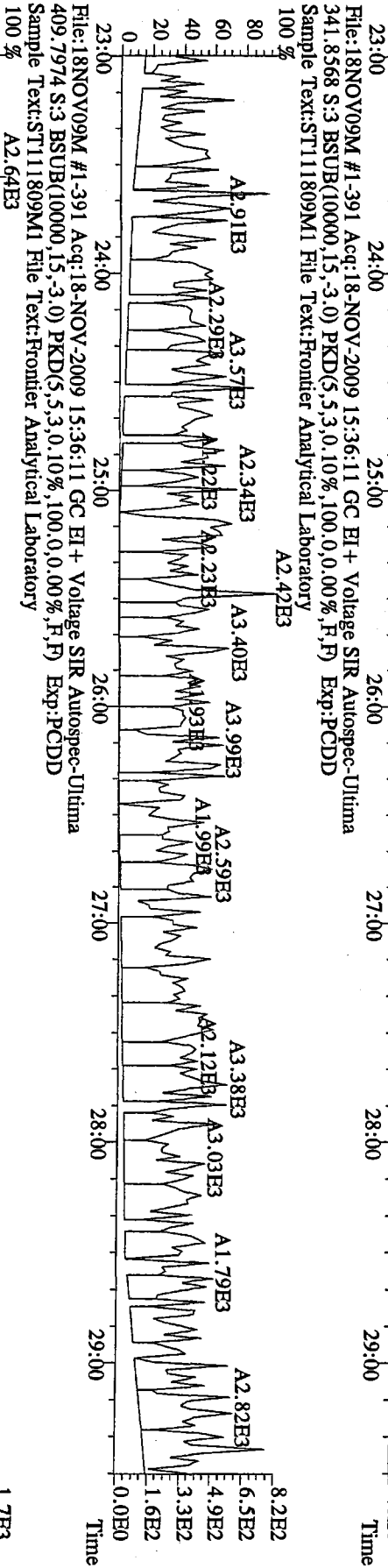
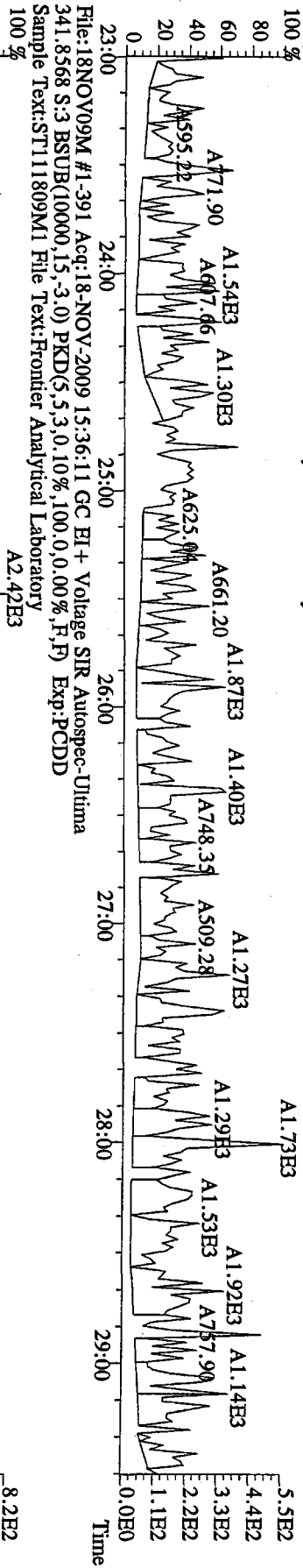
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317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



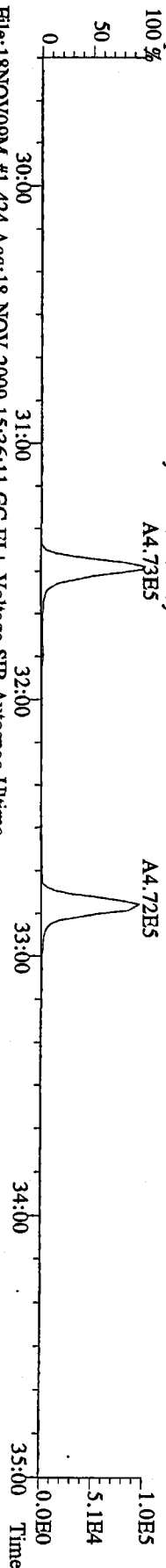
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375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



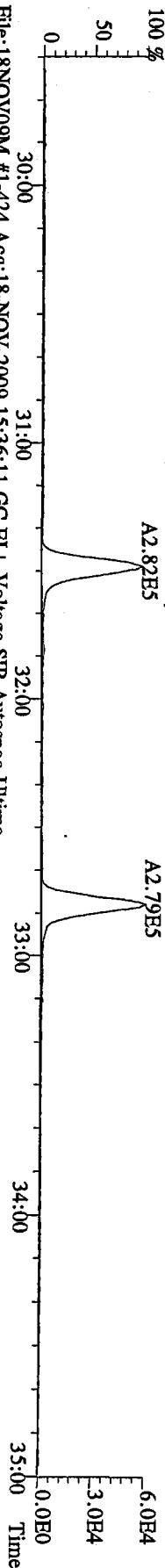
File:18NOV09M #1-391 Acq:18-NOV-2009 15:36:11 GC BI+ Voltage SIR Autospec-Ultima
 339.8597 S.3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



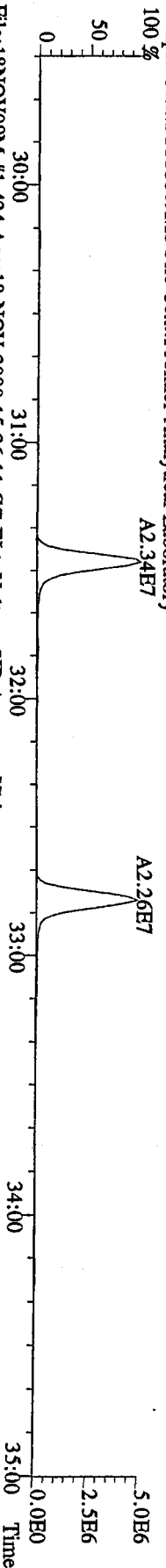
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 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



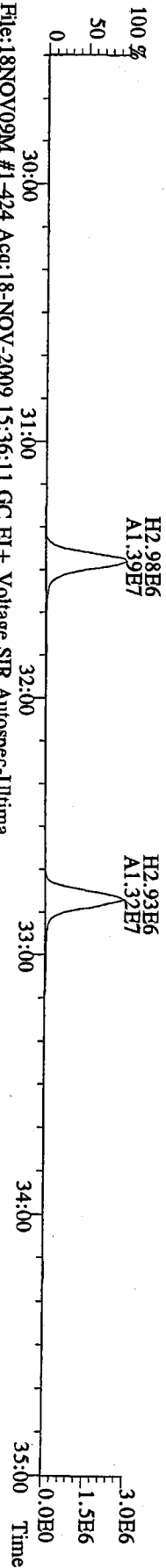
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 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



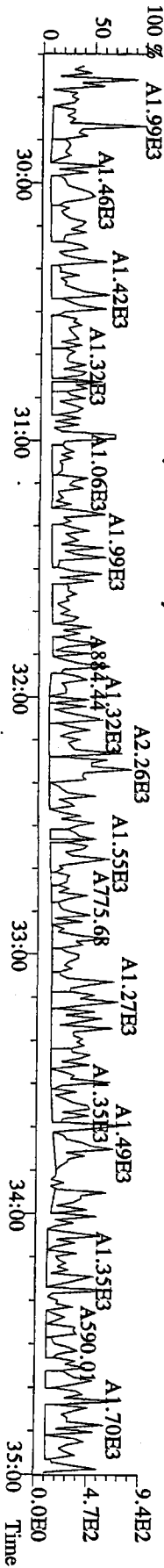
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 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



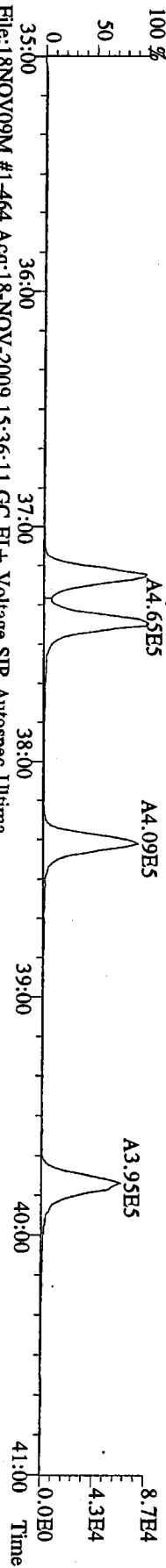
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 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



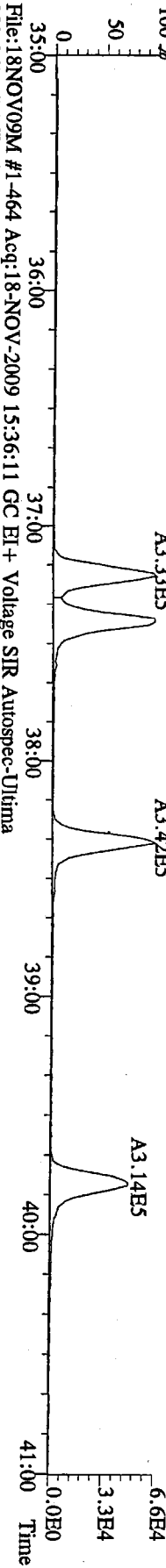
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 409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



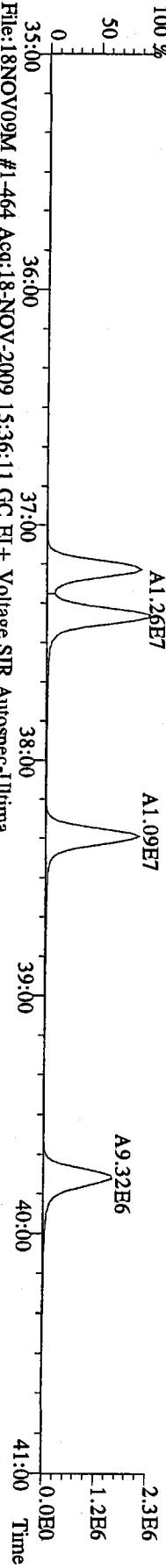
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 373.8207 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



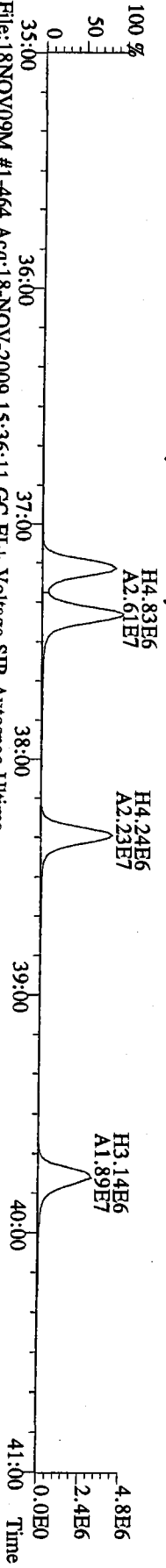
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 375.8178 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



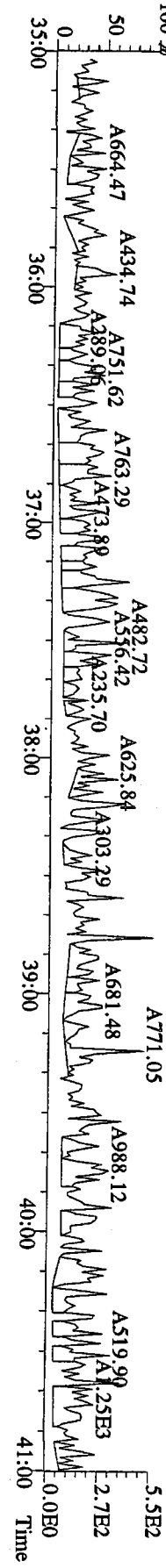
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 383.8639 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



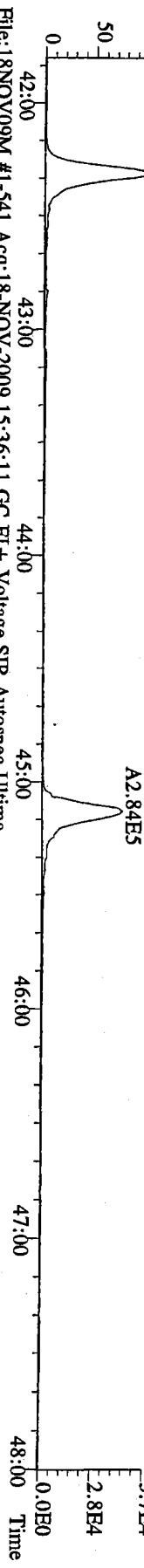
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 385.8610 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



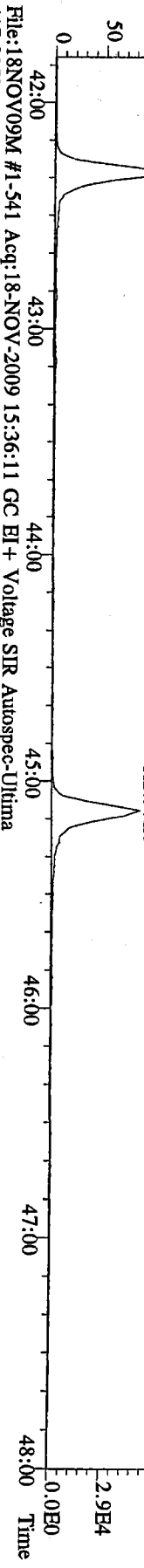
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 445.7555 S:3 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



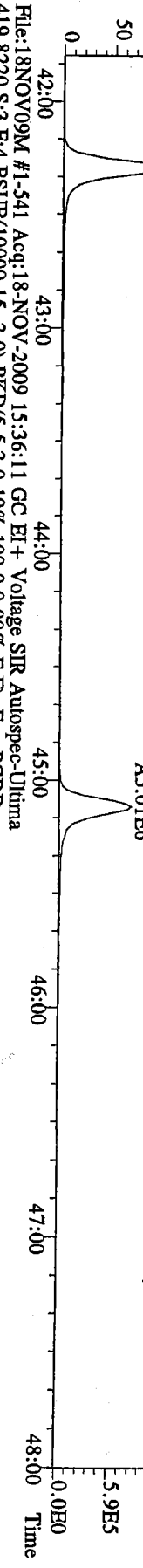
File:18NOV09M #1-541 Acq:18-NOV-2009 15:36:11 GC EI + Voltage SIR Autospec-Ultima
 407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



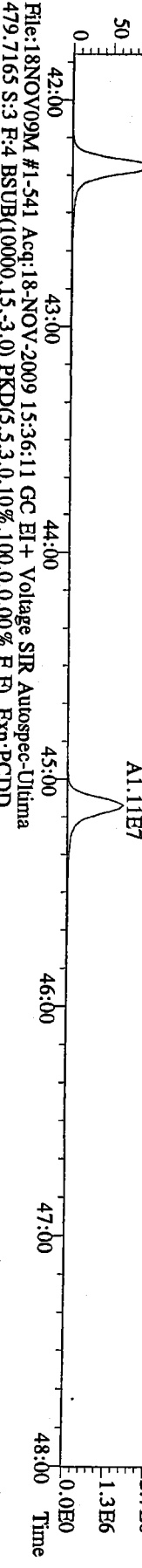
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 409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



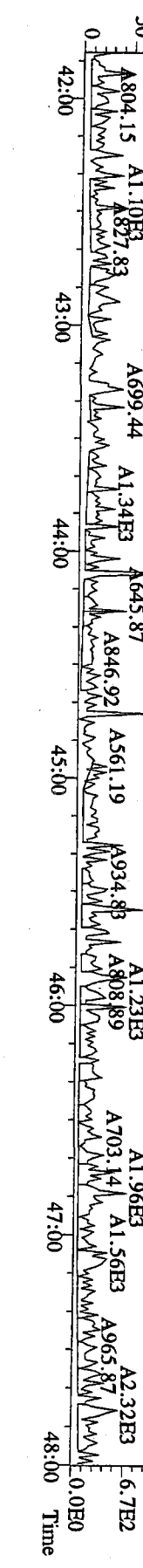
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 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



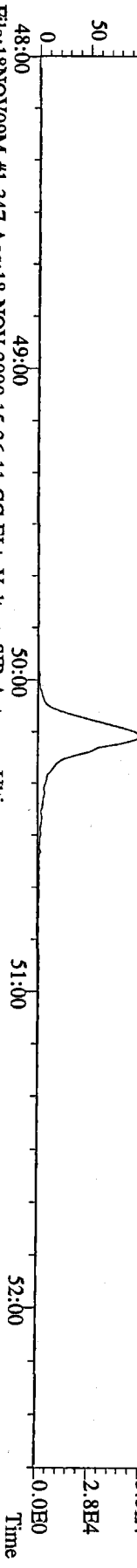
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 419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



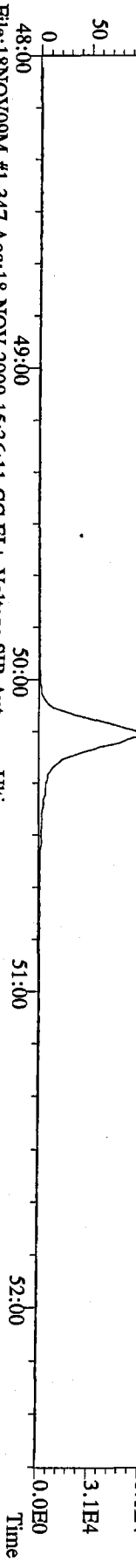
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 479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



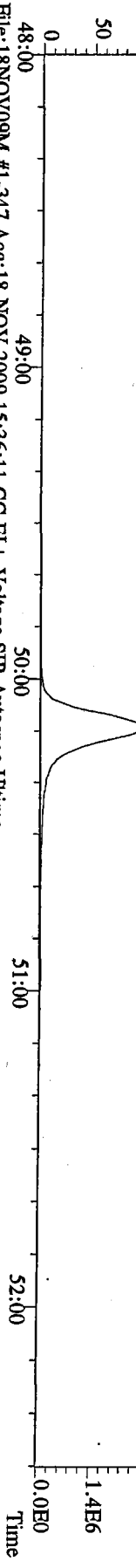
File:18NOV09M #1-347 Acq:18-NOV-2009 15:36:11 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
 100 %



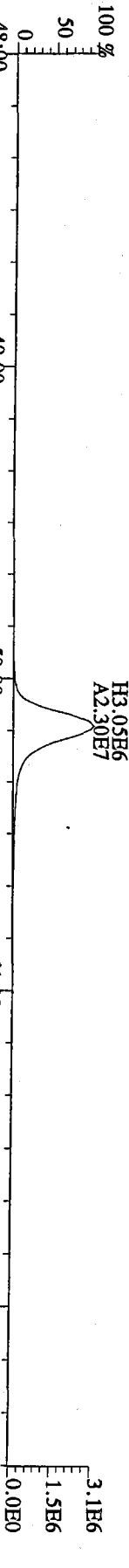
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 443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
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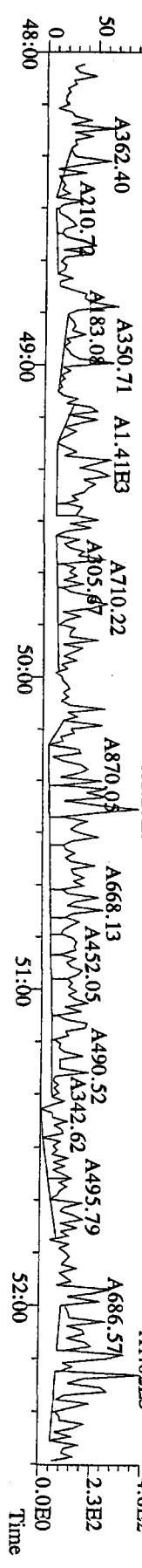
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 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
 100 %



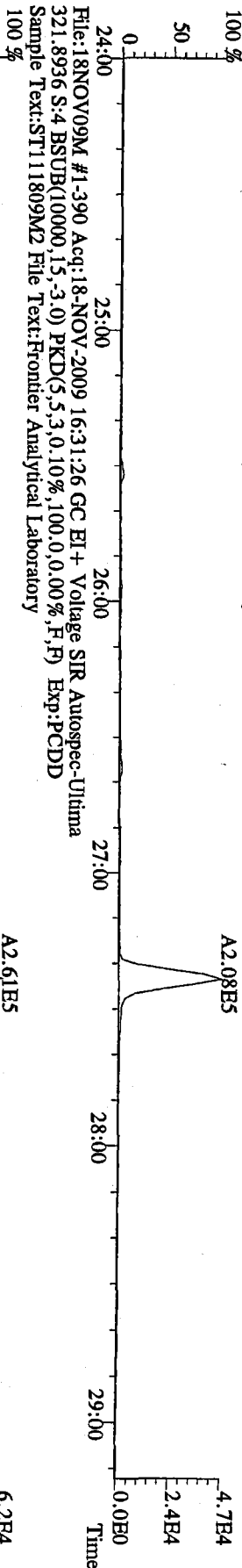
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 455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory



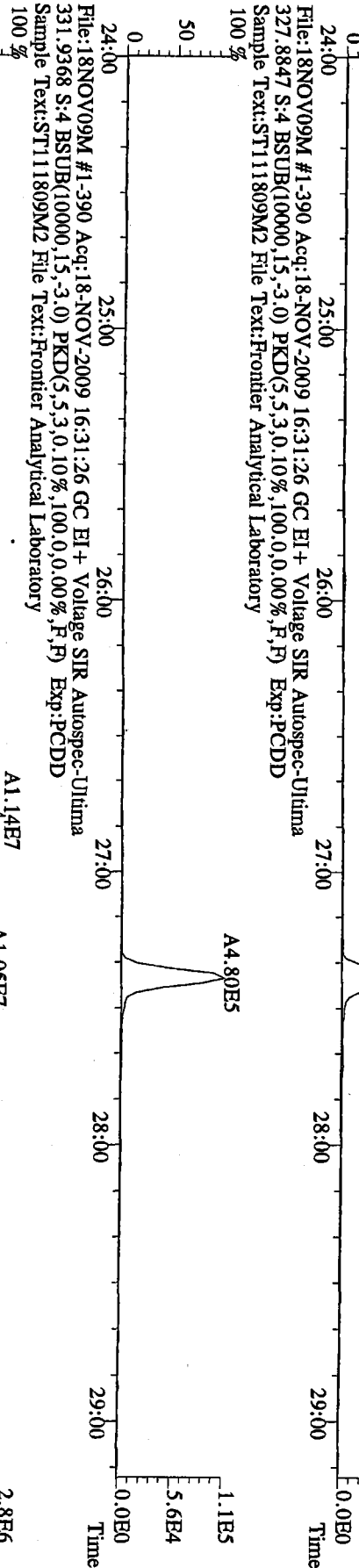
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 Sample Text:ST111809M1 File Text:Frontier Analytical Laboratory
 100 %



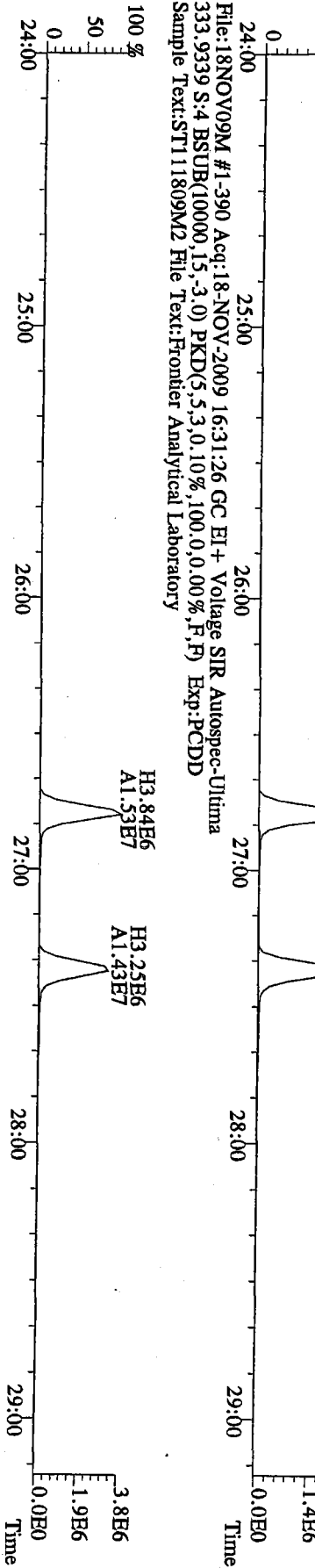
File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



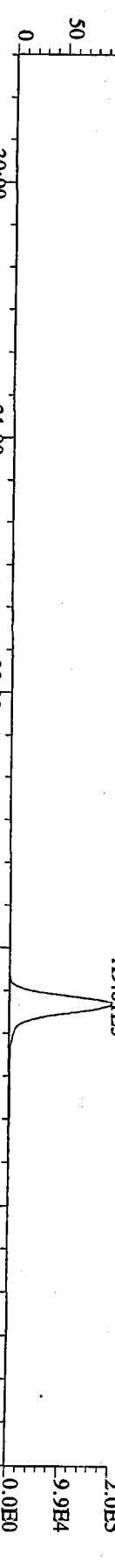
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



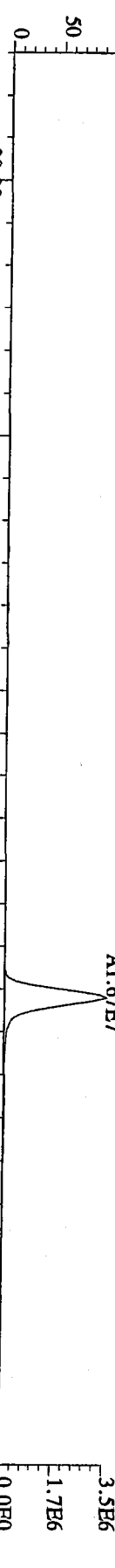
File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory
 100 %



File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
 357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory
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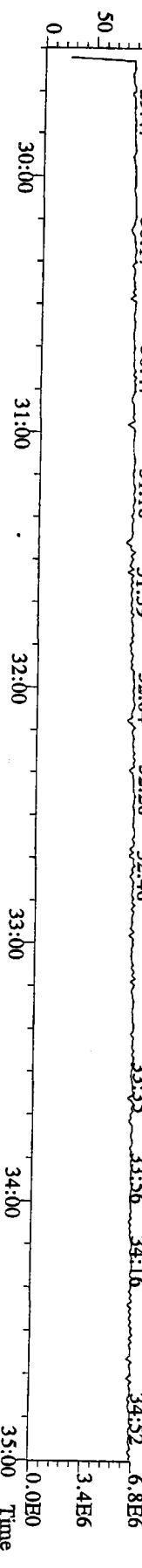
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 367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory
 100 %



File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
 369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory

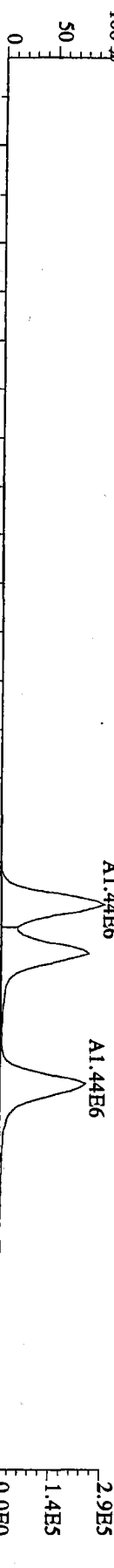


File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:4 F:2 Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



0158 : 000003

File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI + Voltage SIR Autospec-Ultima
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-463 Acq:18-NOV-2009 16:31:26 GC EI + Voltage SIR Autospec-Ultima
 391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



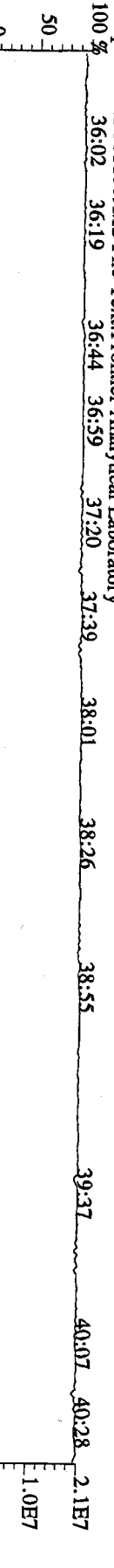
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 401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



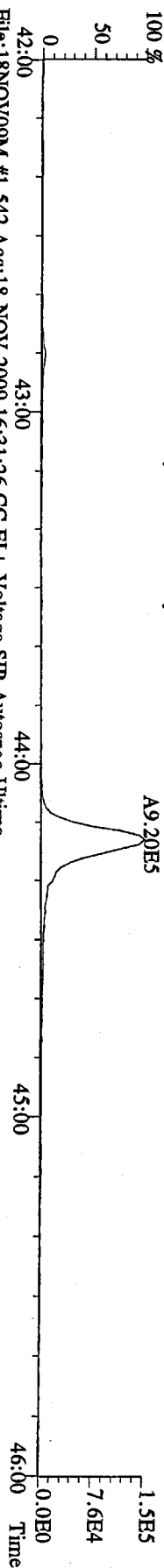
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 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



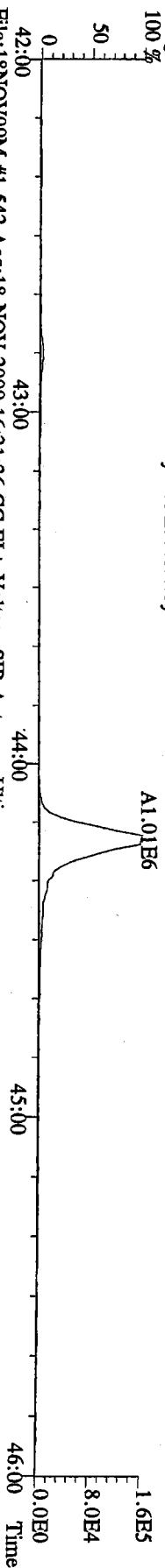
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 380.9760 S:4 F:3 Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



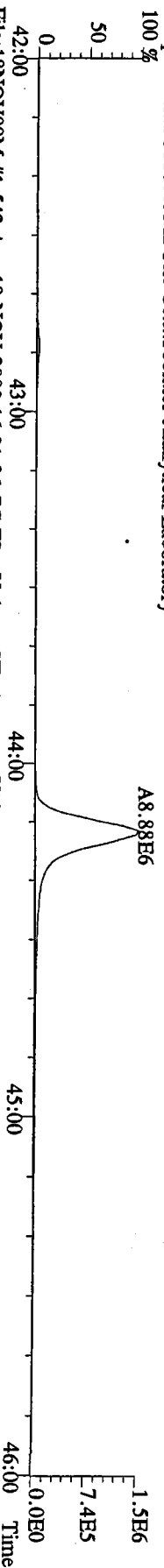
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory
100 %



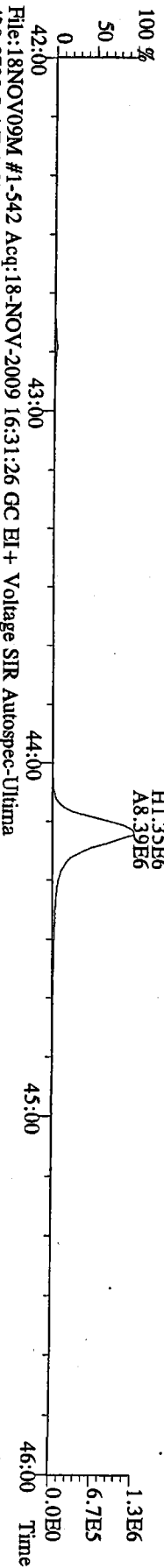
File:18NOV09M #1-542 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory
100 %



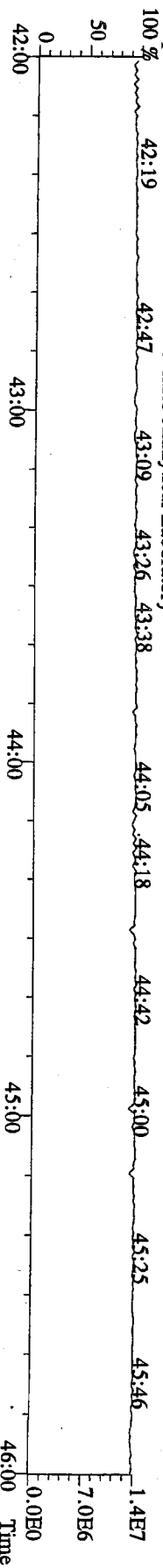
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435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory
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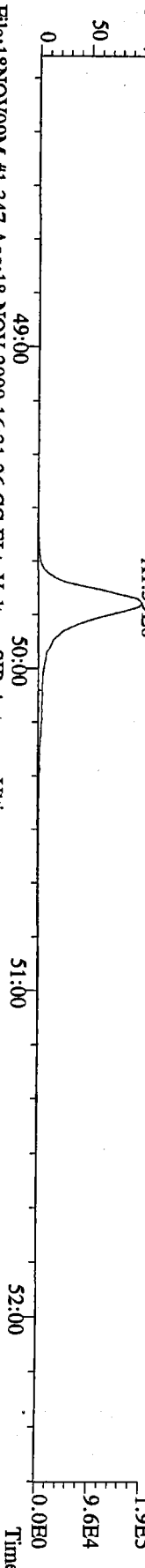
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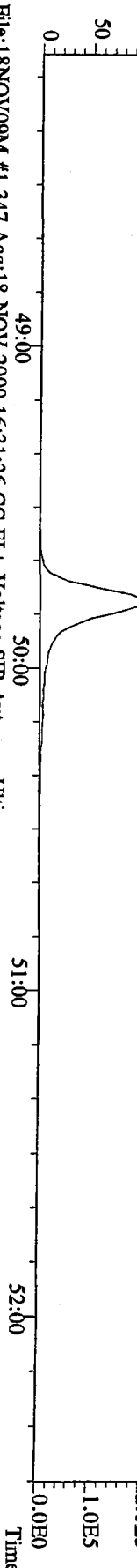
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430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



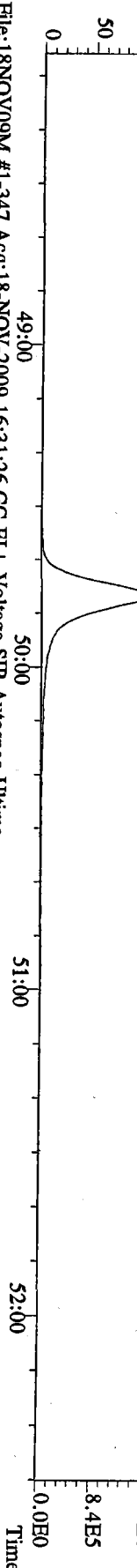
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 457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory
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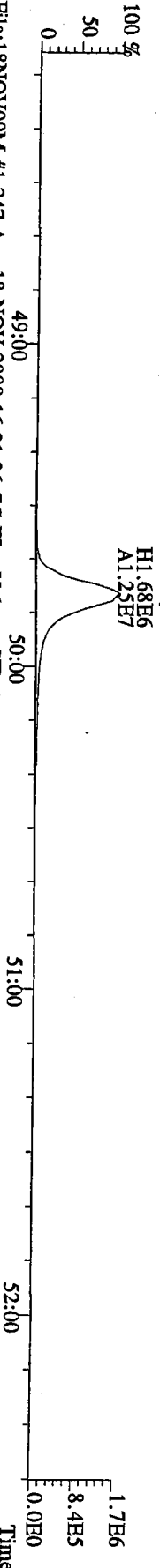
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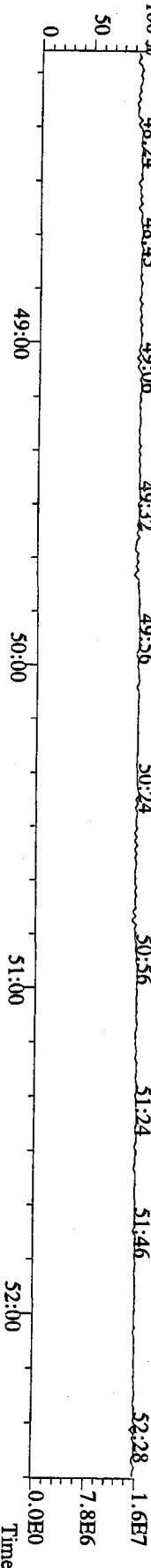
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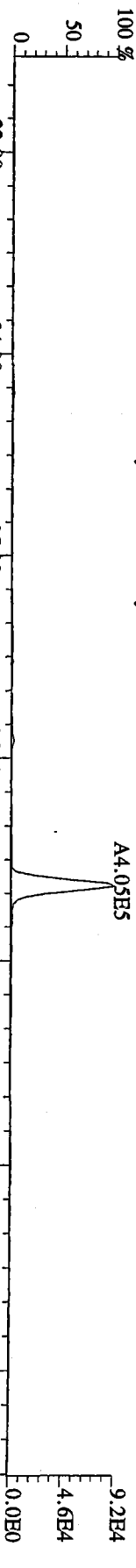
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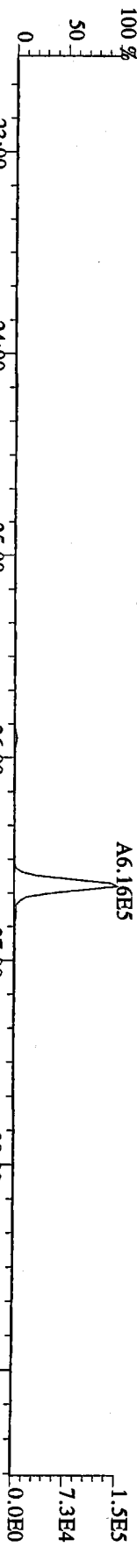
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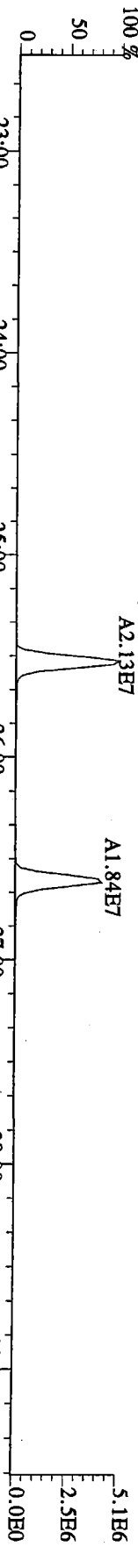
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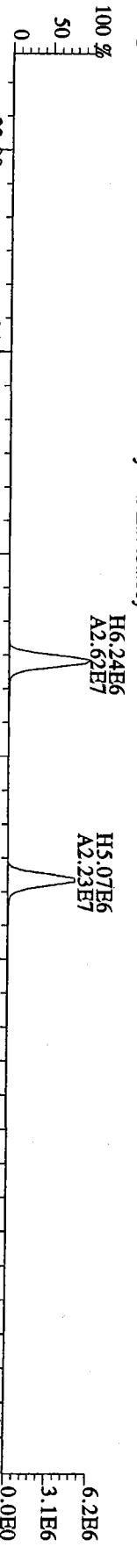
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 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



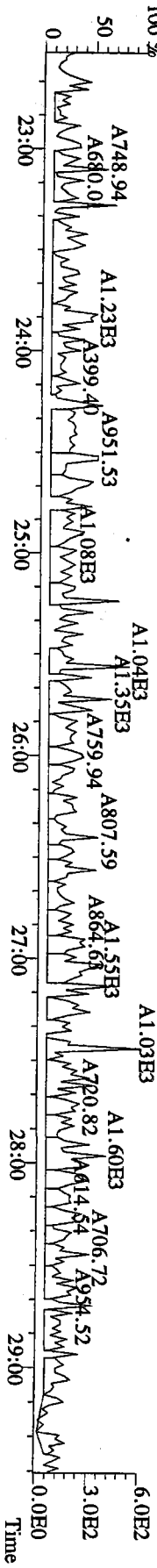
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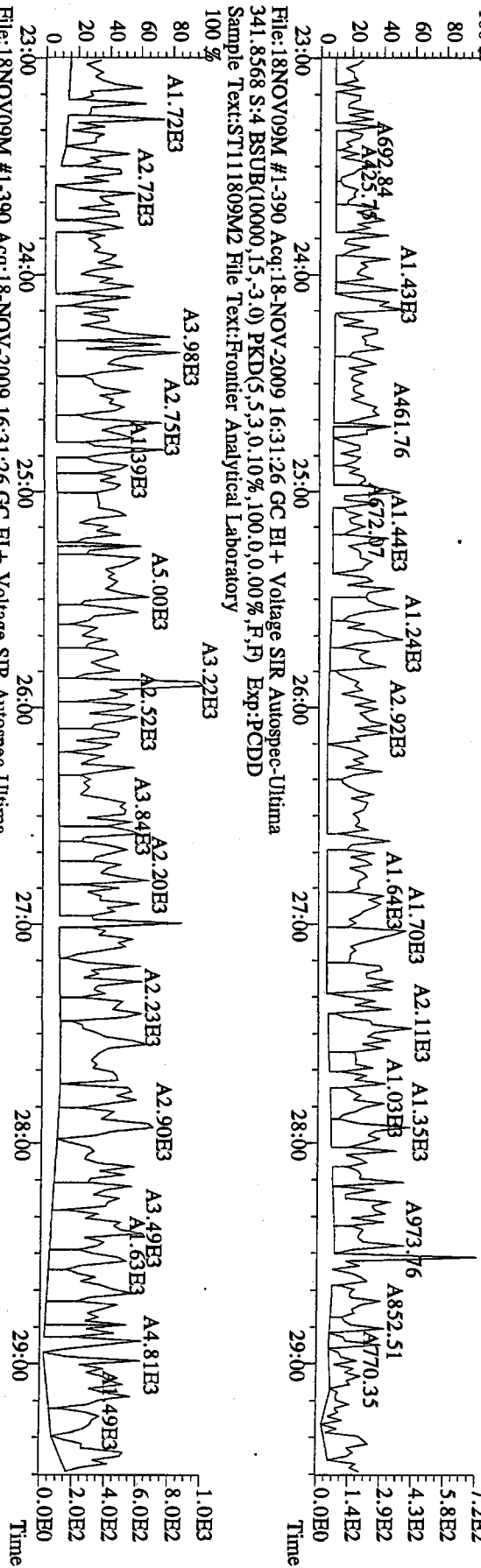
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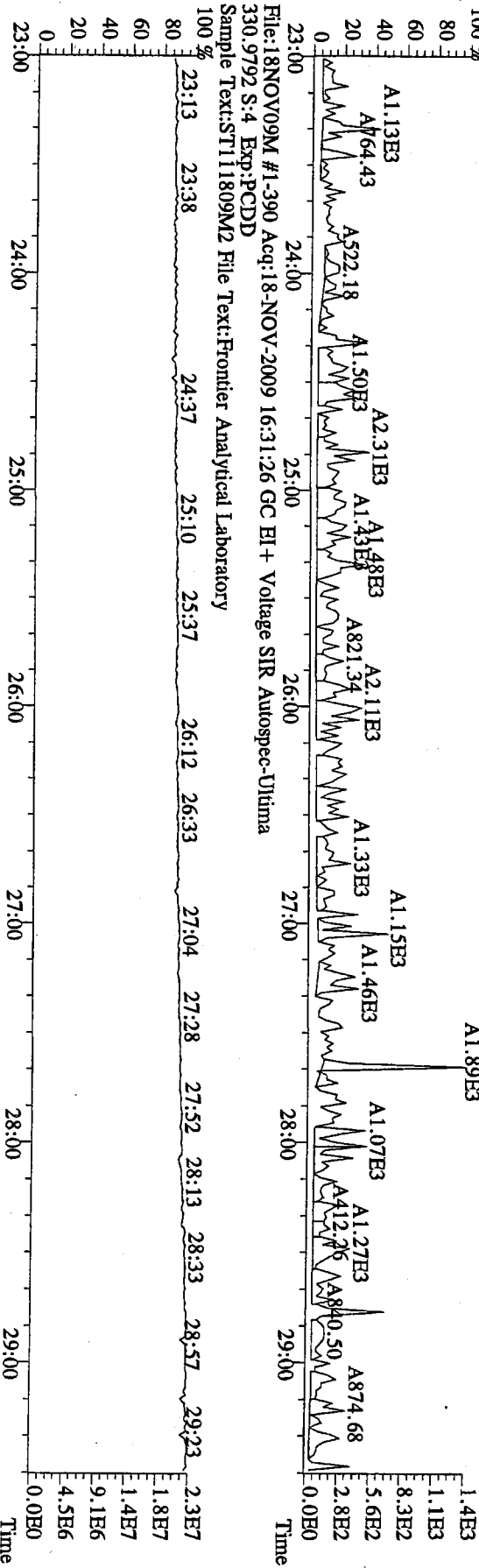
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 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-390 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Utlima
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory

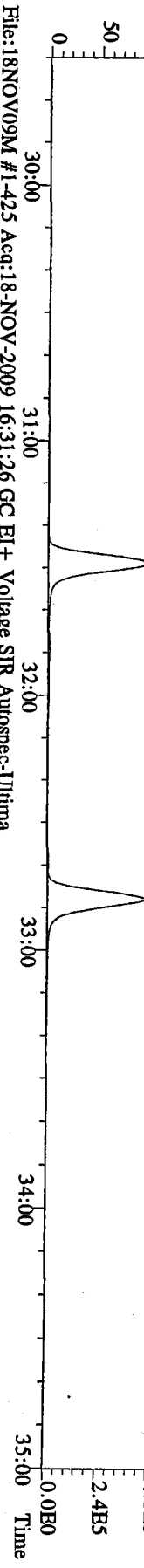


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409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory

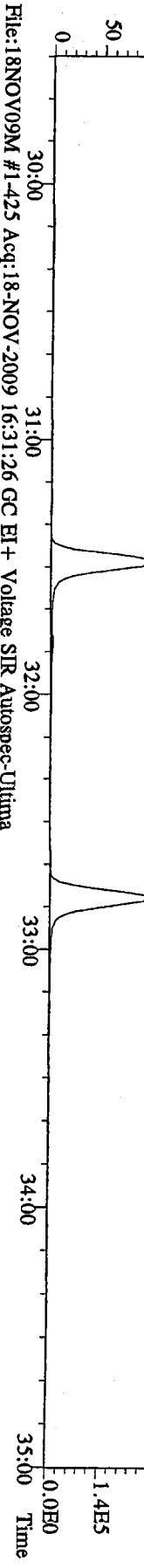


88888888 : 0015 70

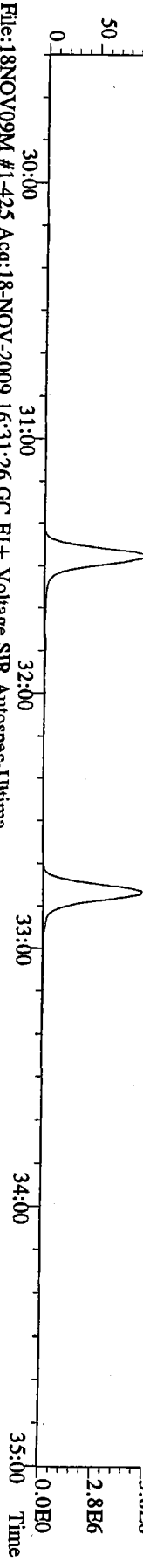
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 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



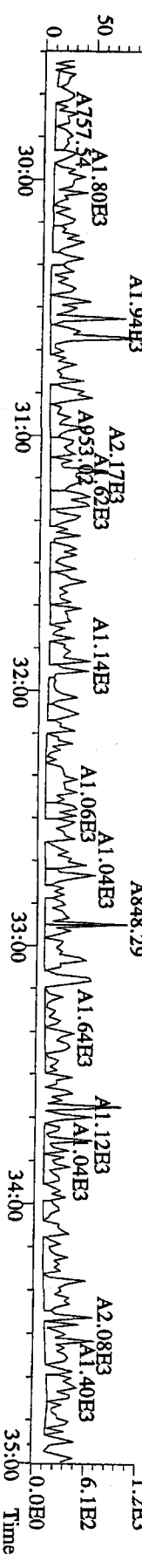
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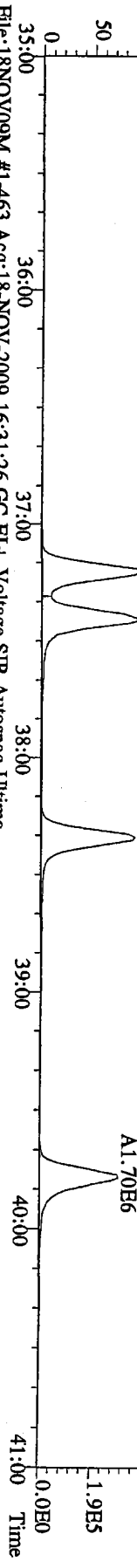
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 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-425 Acq:18-NOV-2009 16:31:26 GC EI+ Voltage SIR Autospec-Ultima
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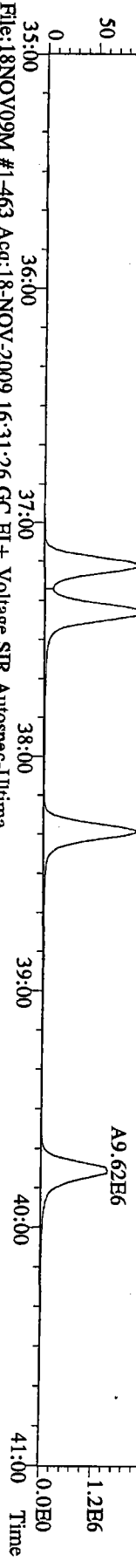
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 Sample Text:ST111809M2 File Text:Frontier Analytical Laboratory



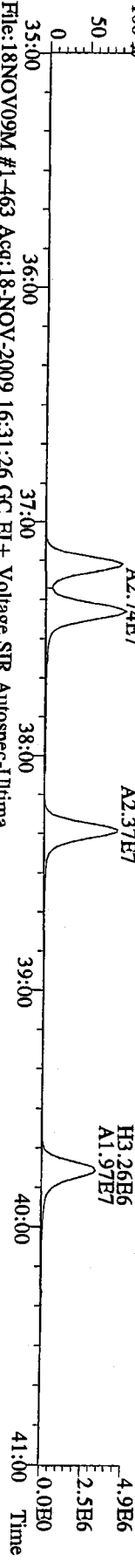
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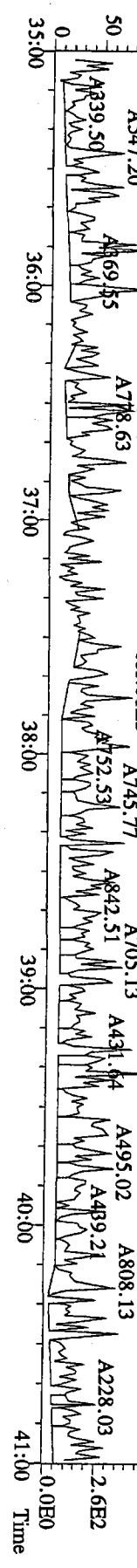
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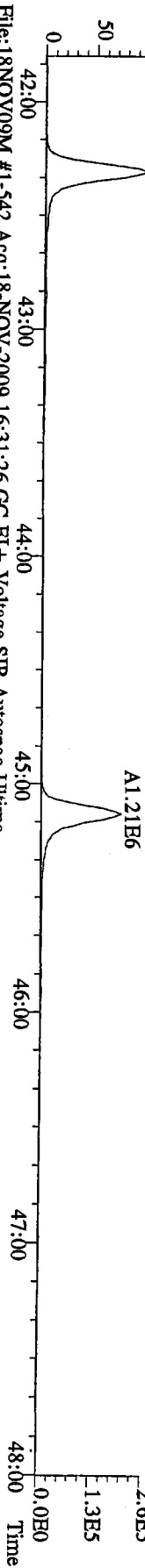
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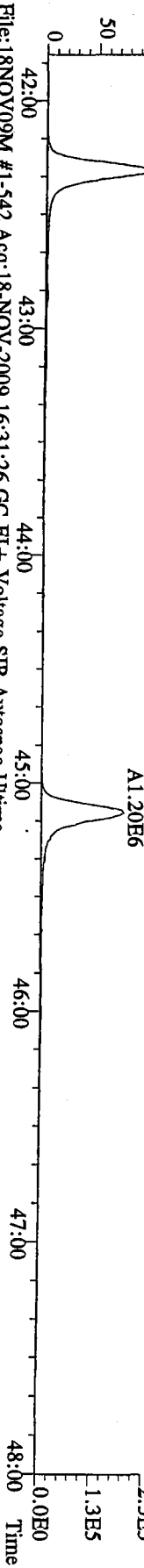
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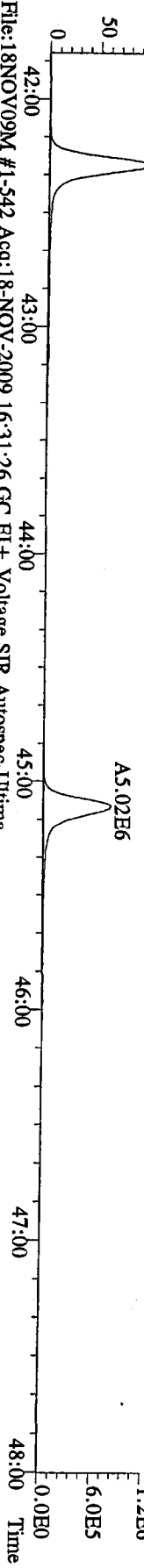
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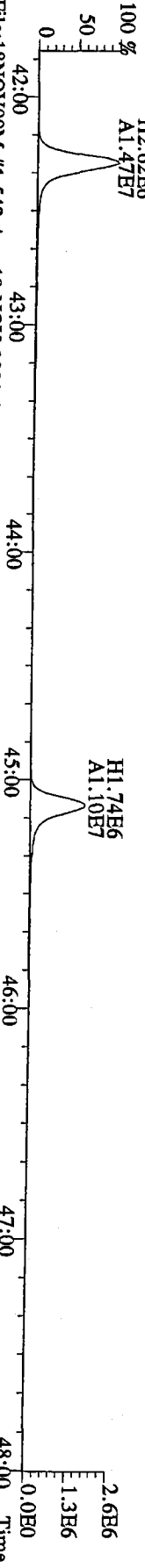
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 100 % A1.41E6



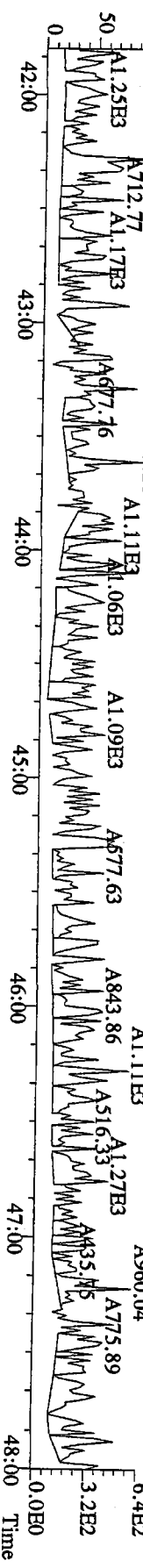
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 100 % A6.77E6



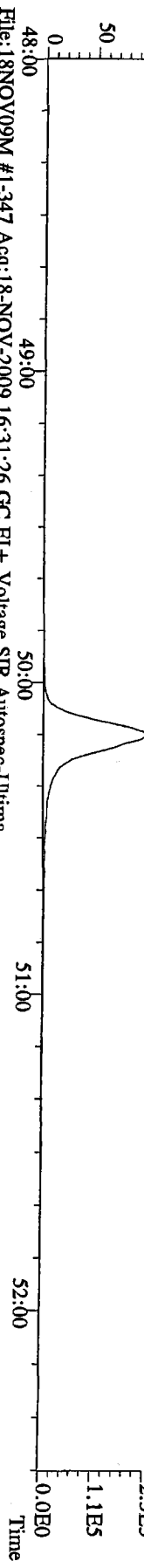
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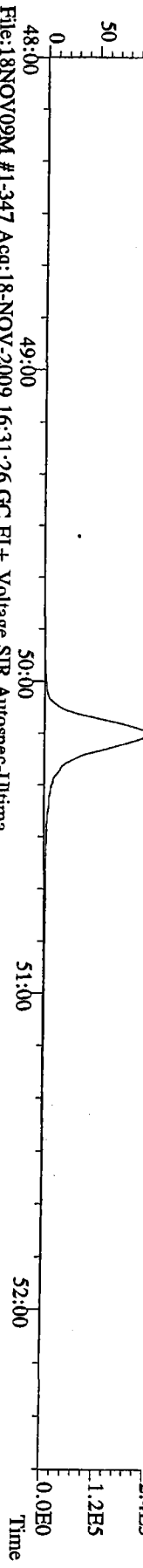
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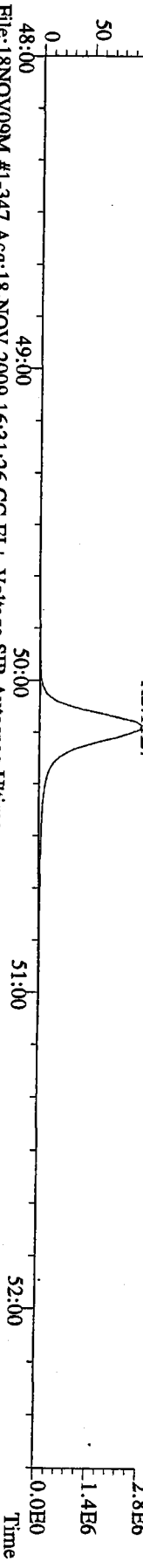
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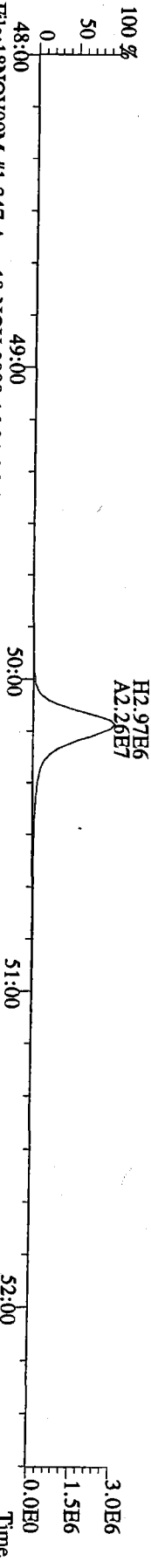
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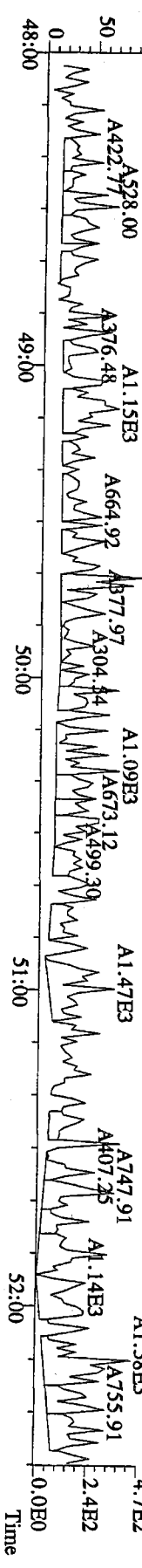
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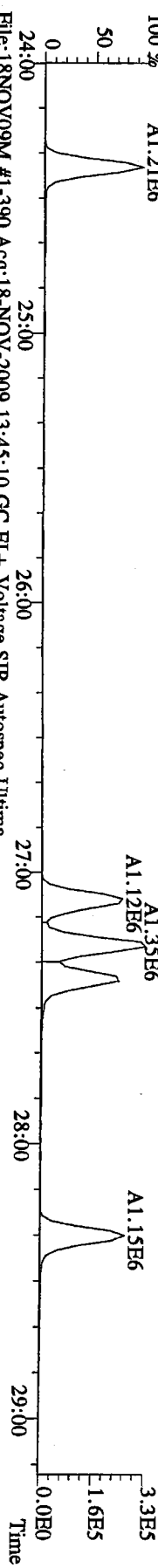
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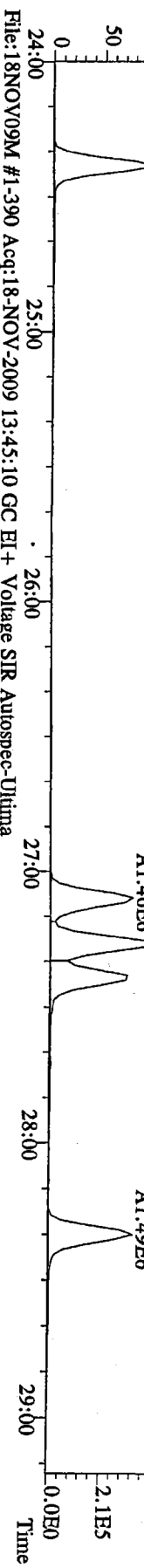
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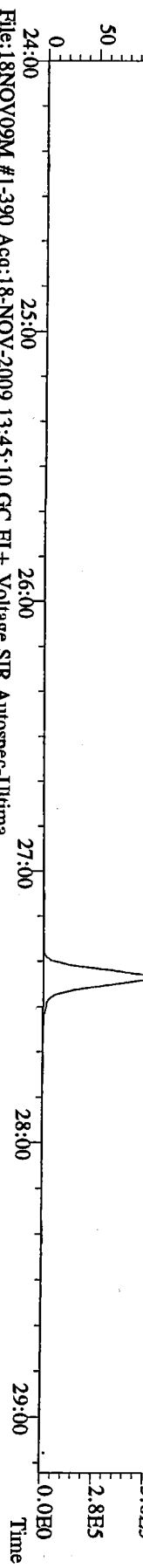
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Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



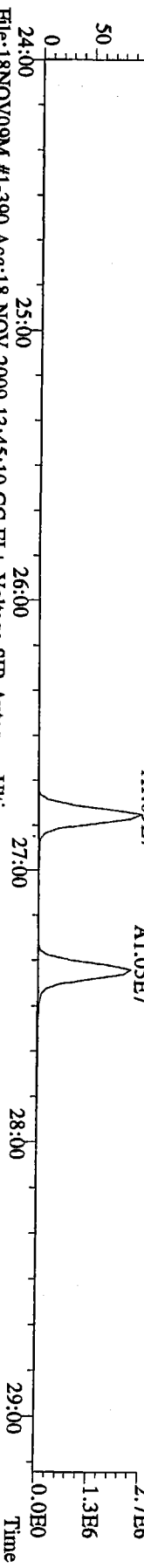
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Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



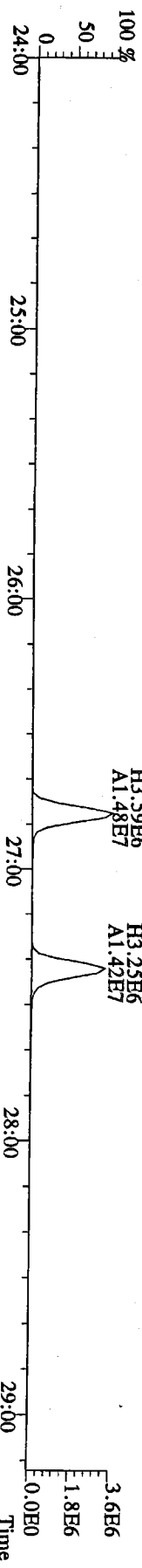
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Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



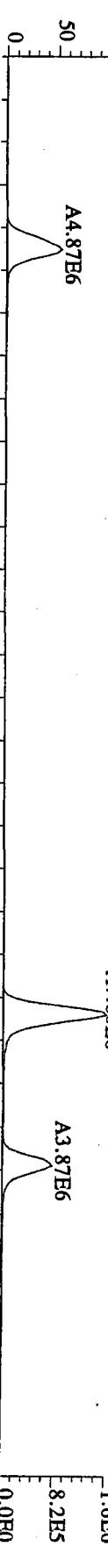
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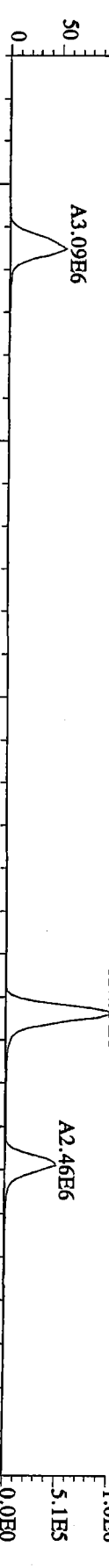
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Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
 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:ST111809M3 File Text:Frontier Analytical Laboratory
 100 %



File:18NOV09M #1-425 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
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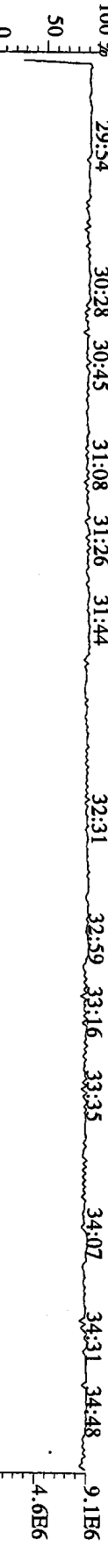
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 Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory
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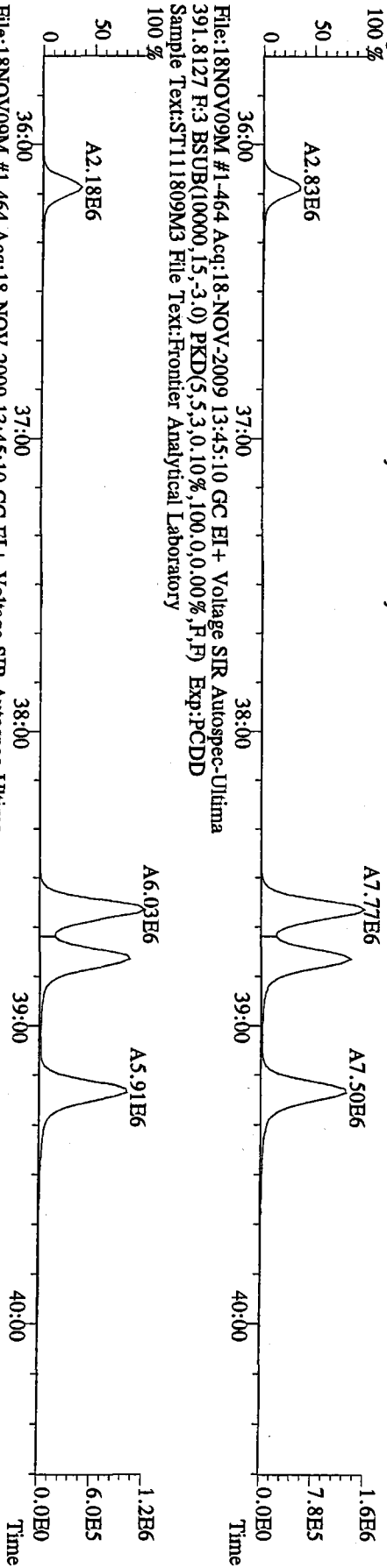
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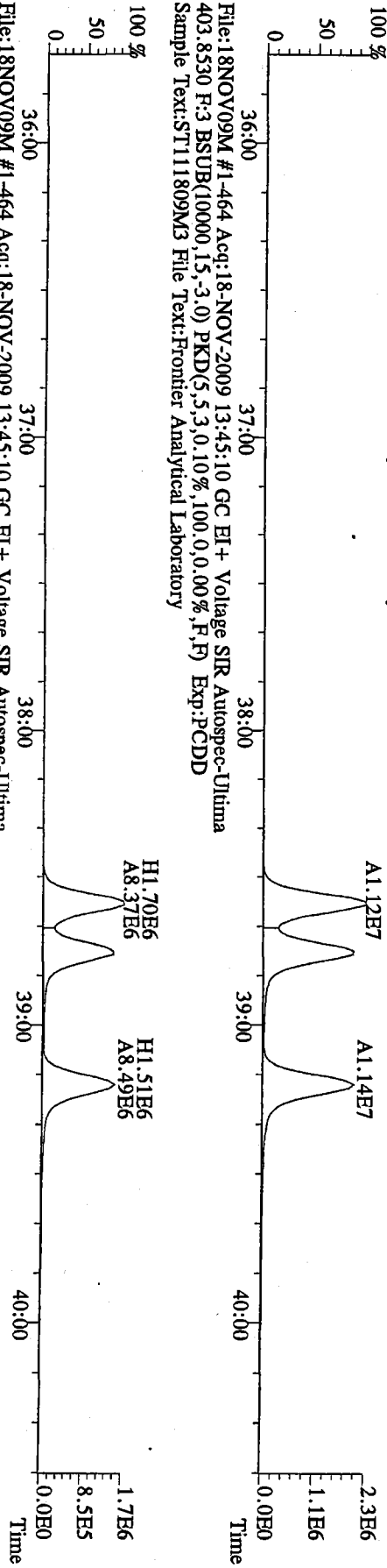
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 366.9792 F:2 Exp:PCDD
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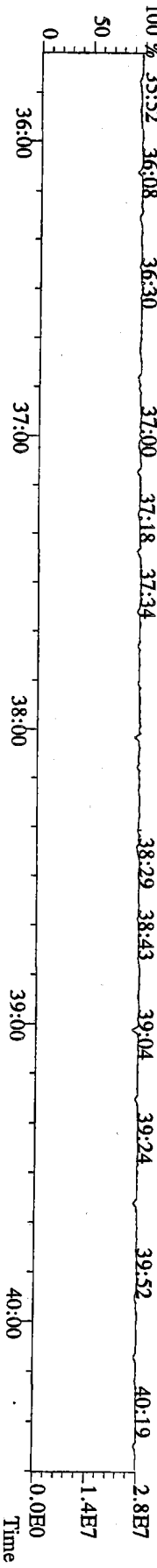
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389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory
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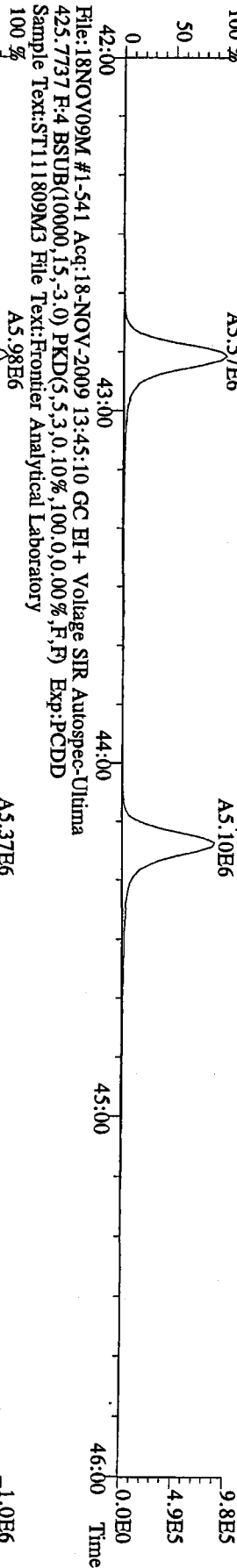
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401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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100 %



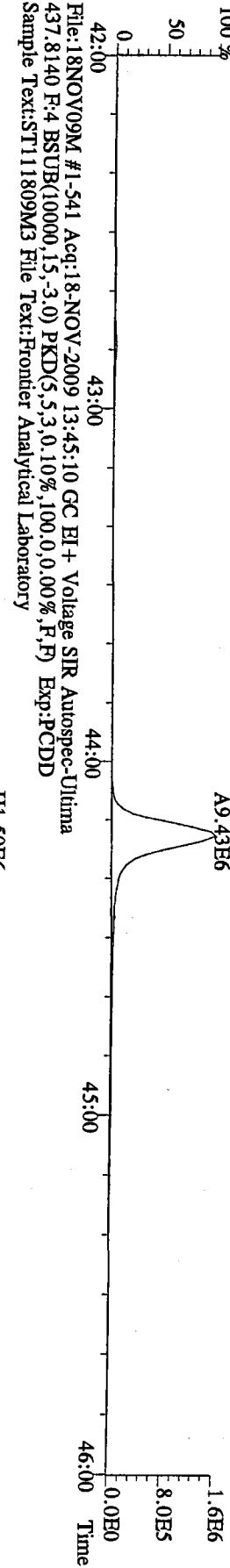
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100 %



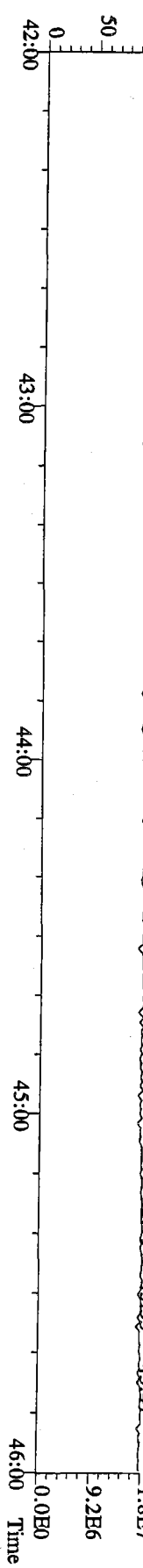
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423.7767 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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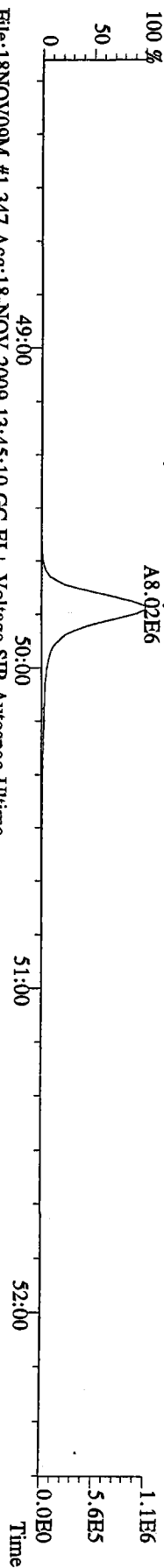
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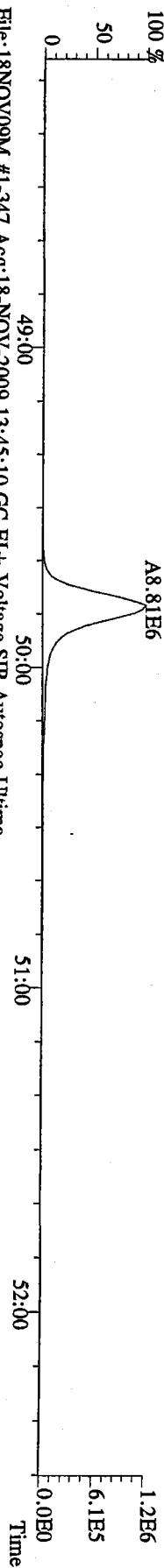
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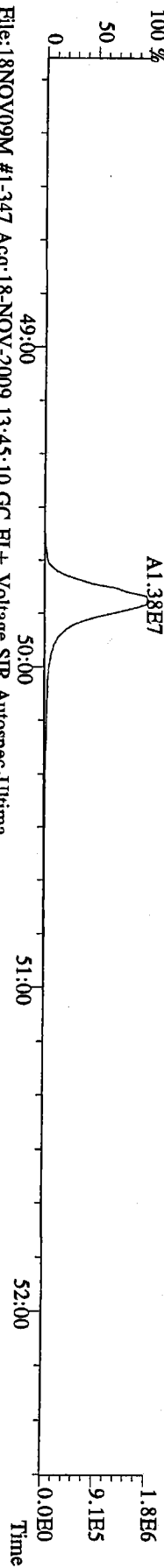
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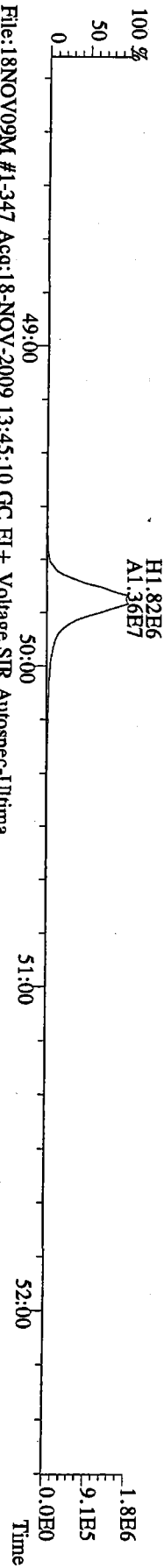
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100 %



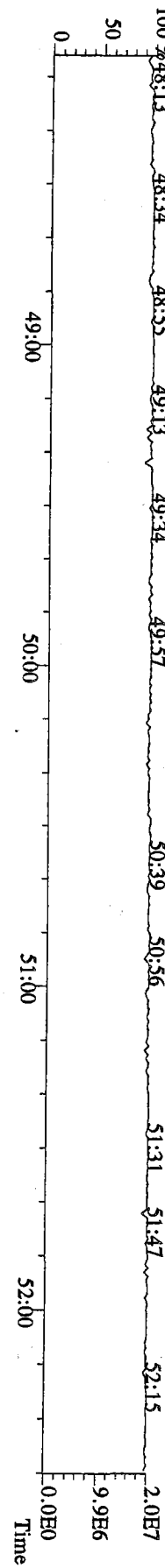
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100 %



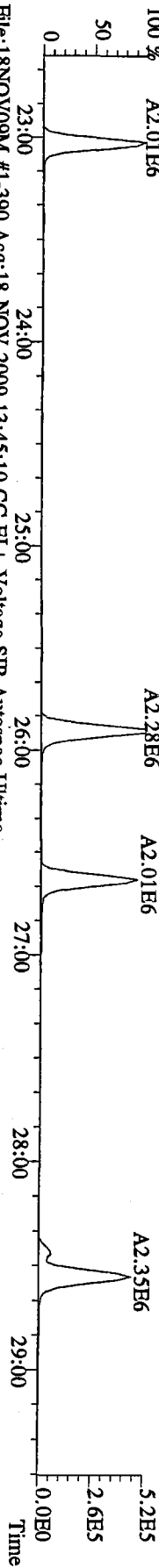
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Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory
100 %



File:18NOV09M #1-347 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory
100 %



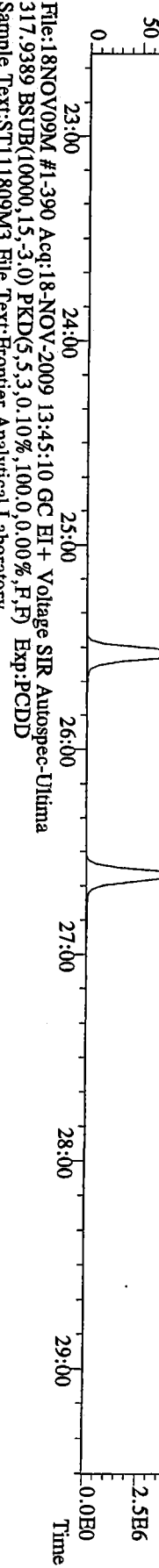
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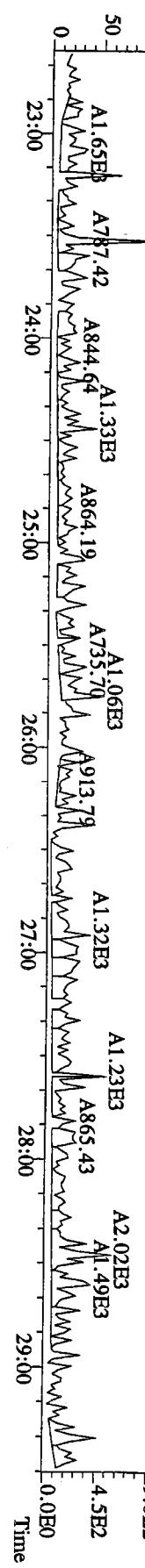
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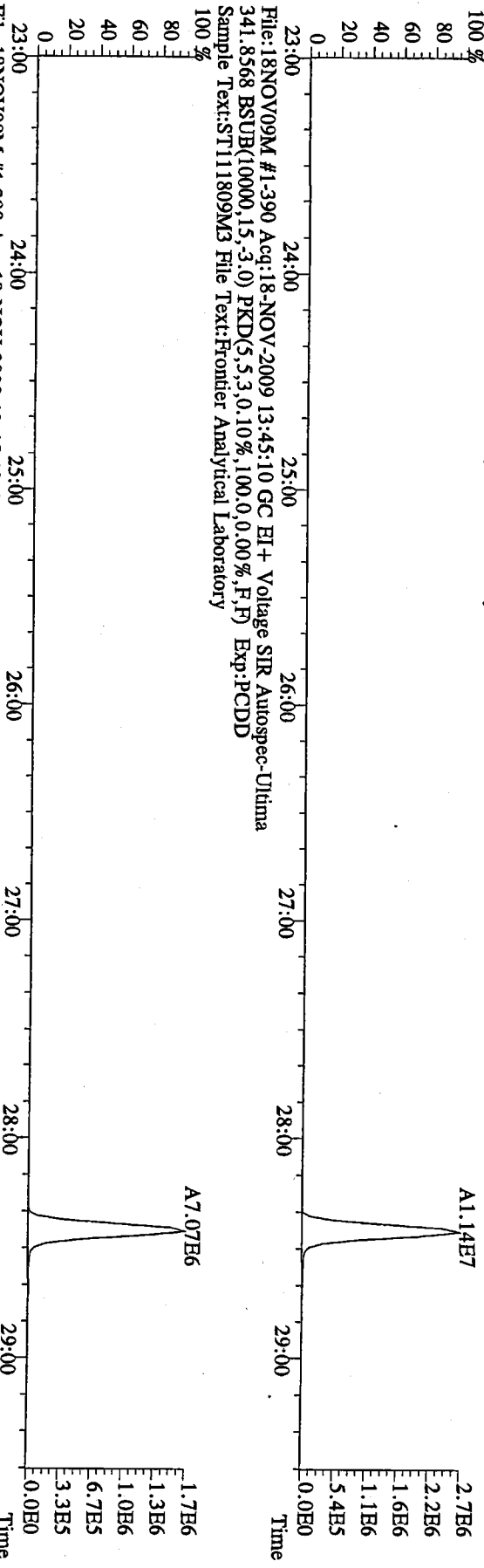
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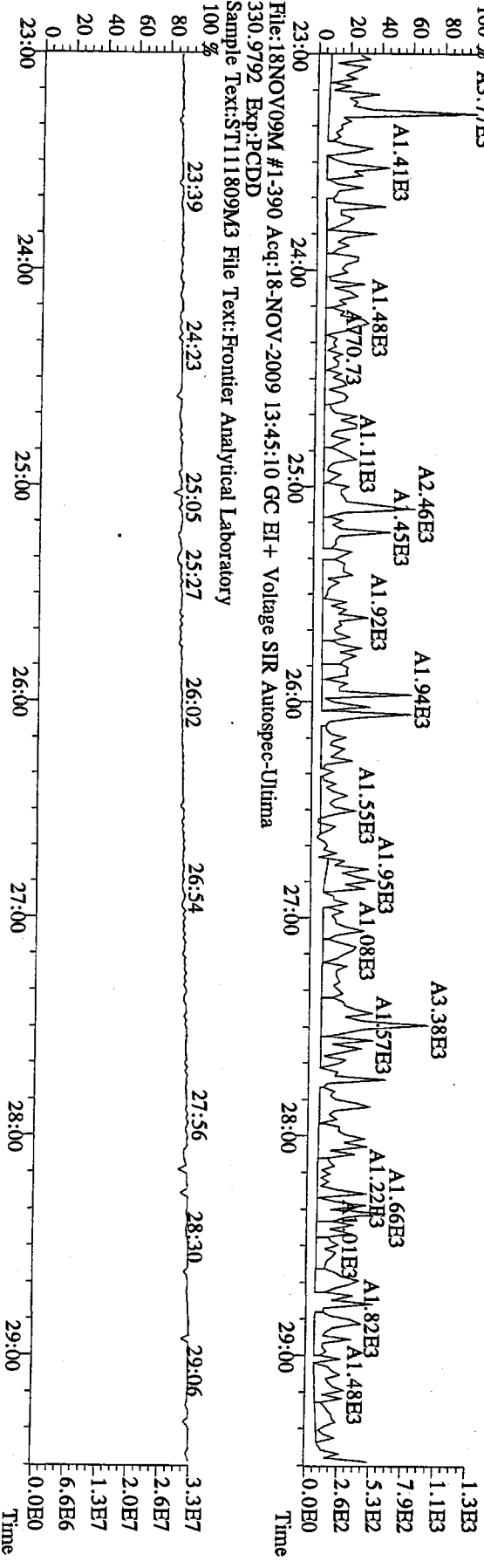
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 Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-390 Acq:18-NOV-2009 13:45:10 GC EI+ Voltage SIR Autospec-Ultima
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 Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory

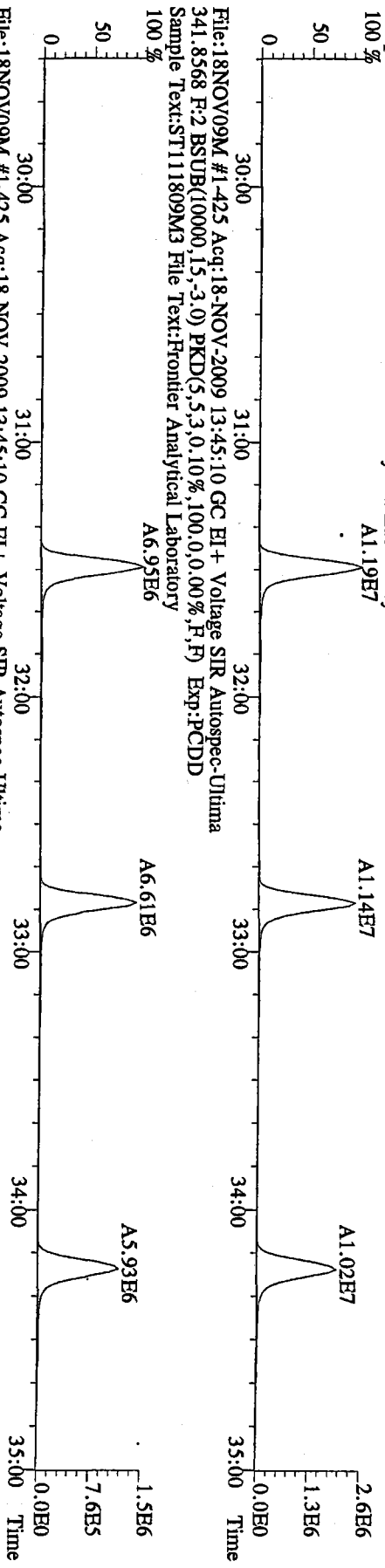


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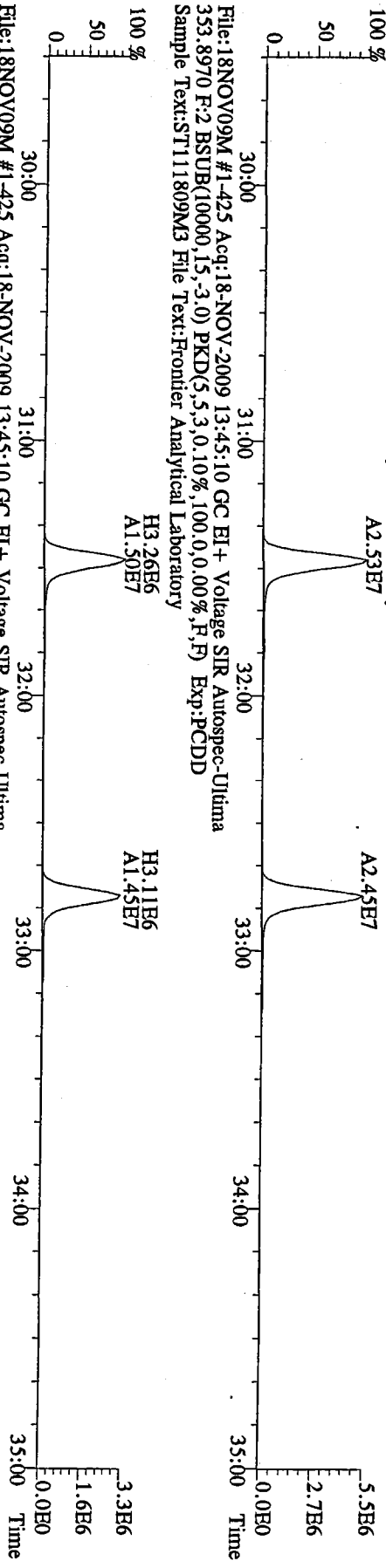


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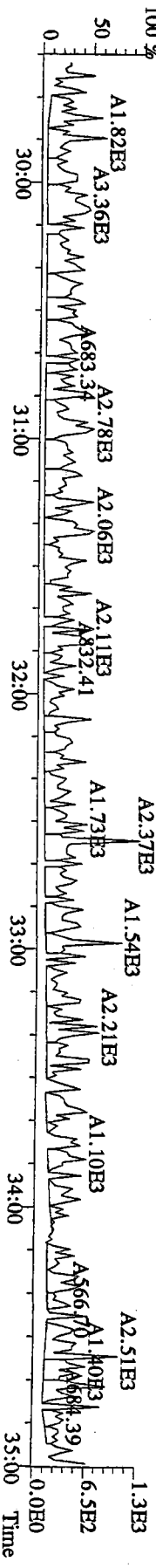
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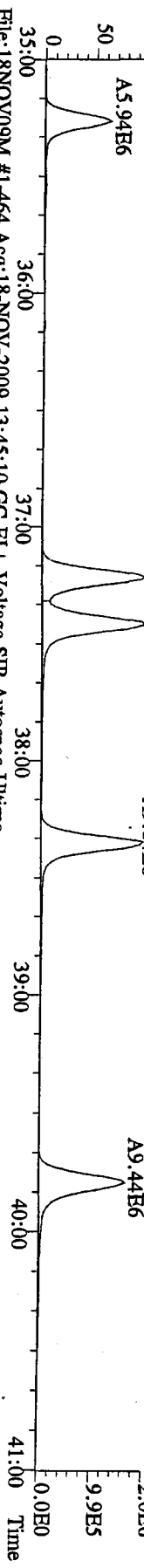
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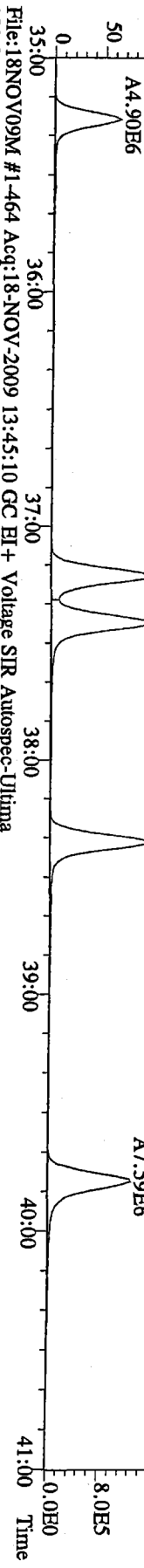
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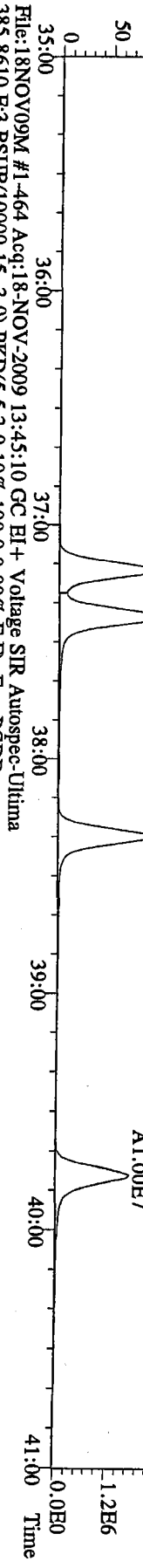
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Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



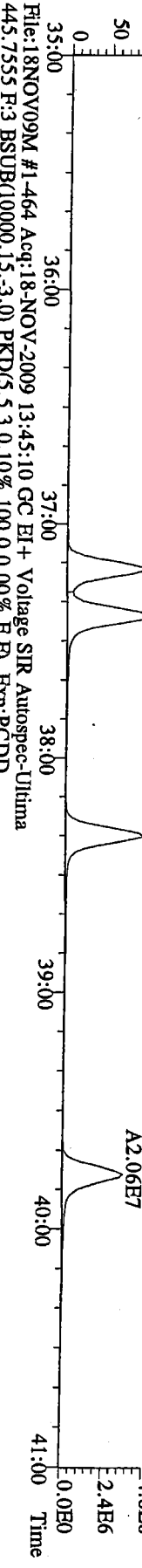
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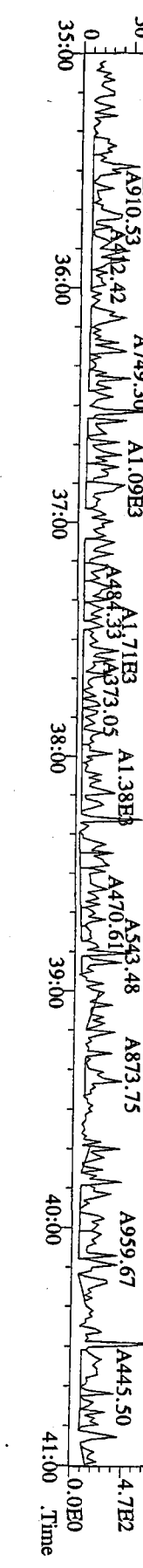
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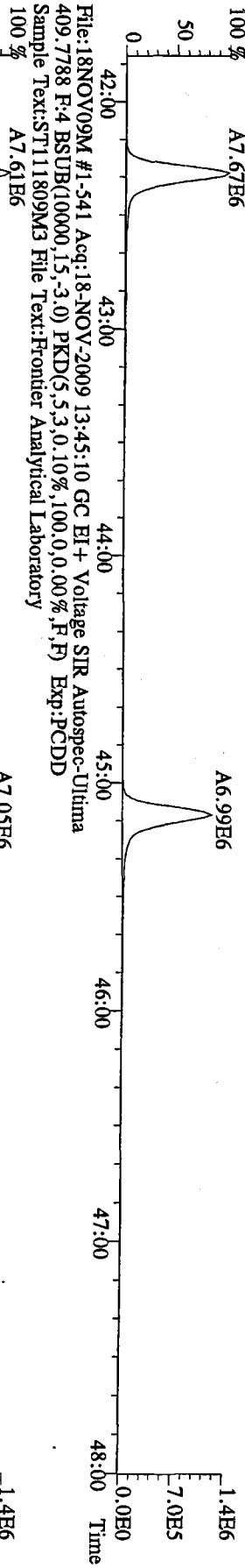
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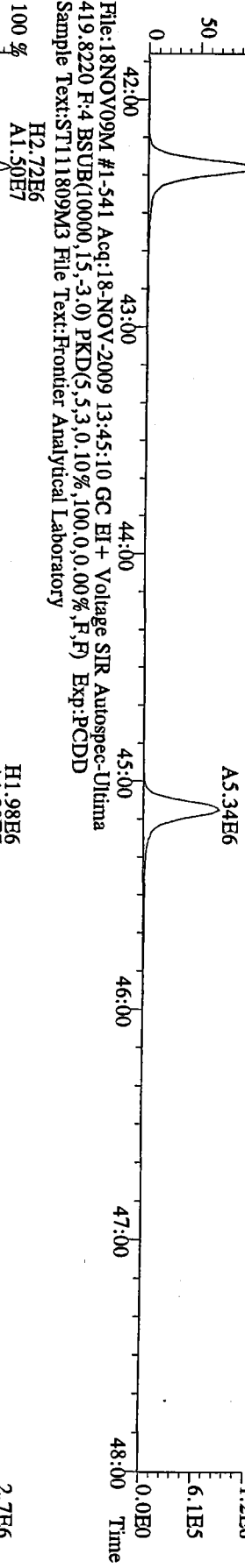
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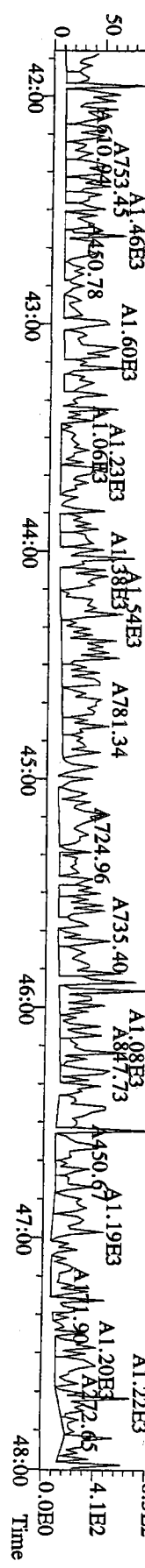
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407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M3 File Text:Frontier Analytical Laboratory



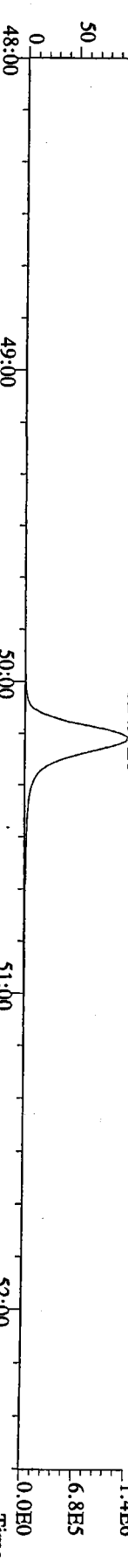
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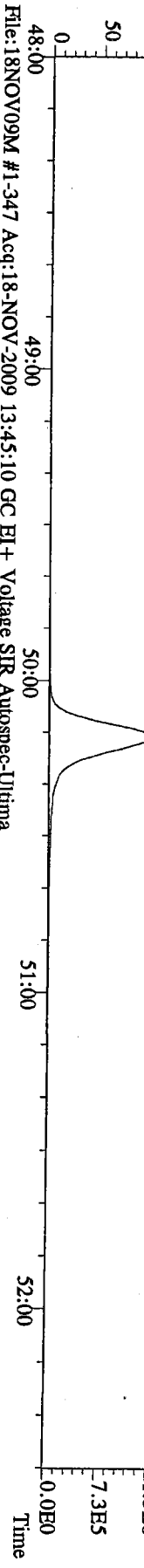
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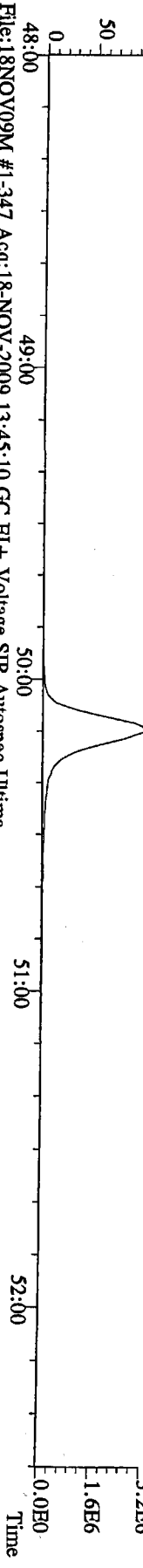
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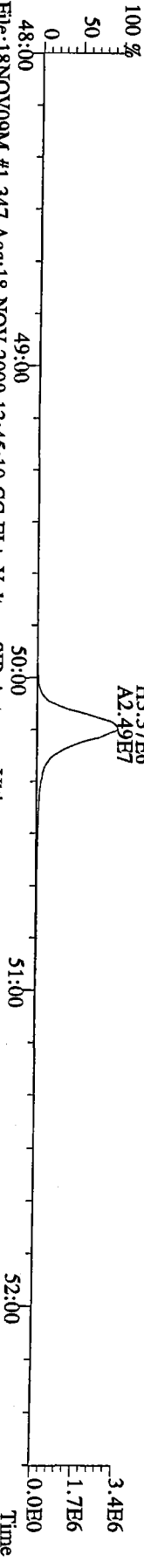
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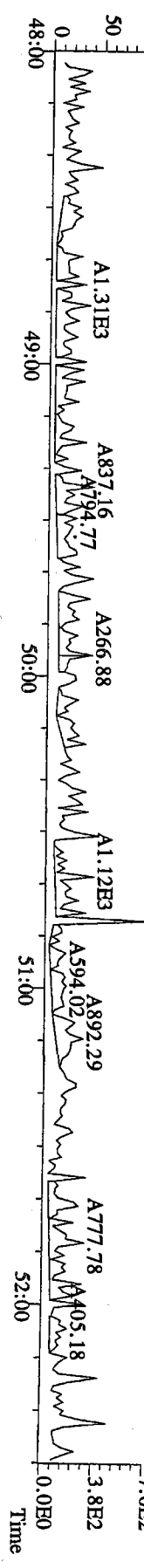
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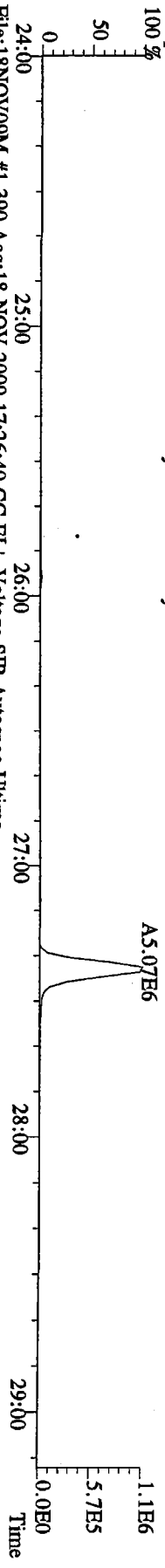
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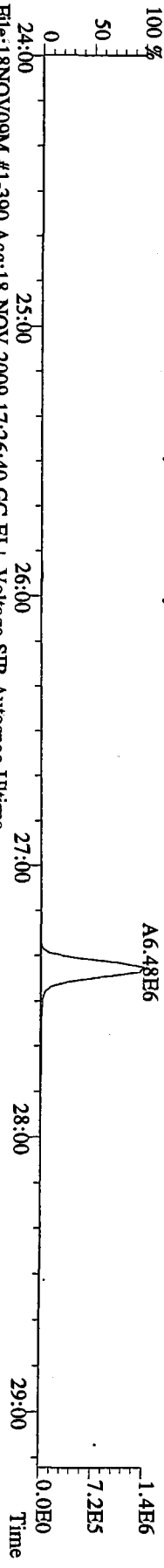
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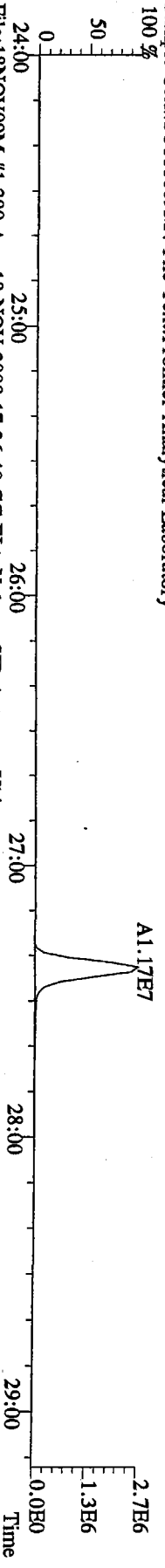
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319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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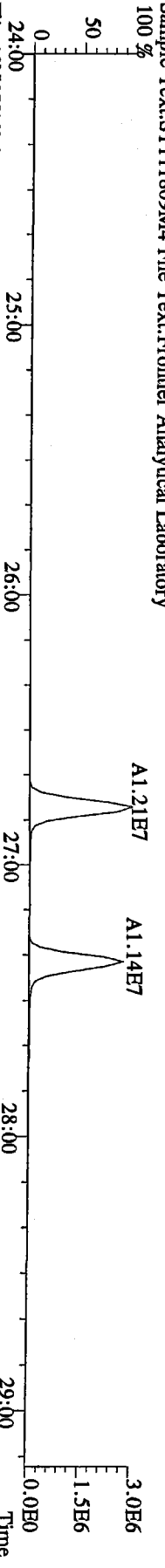
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Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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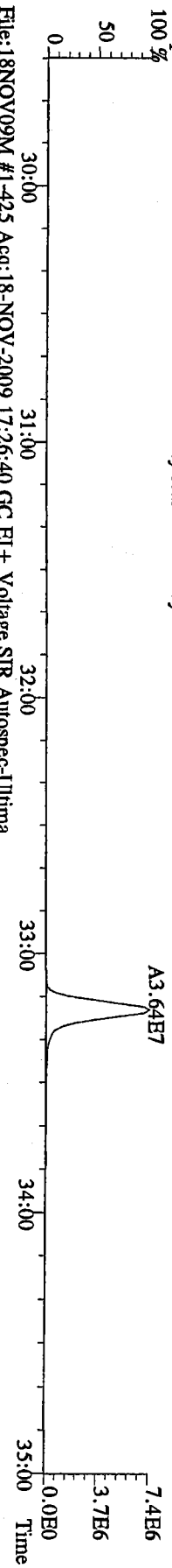
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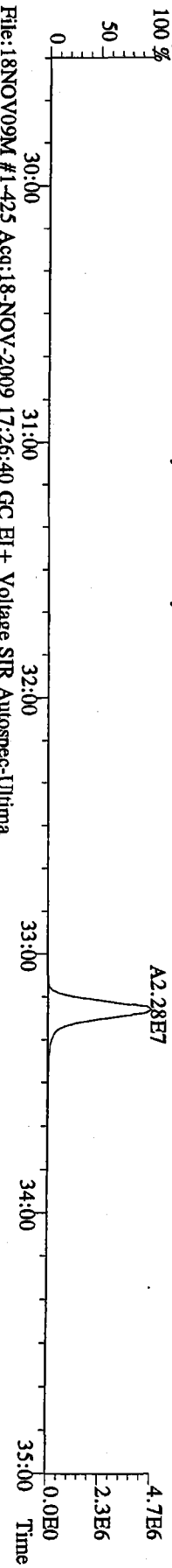
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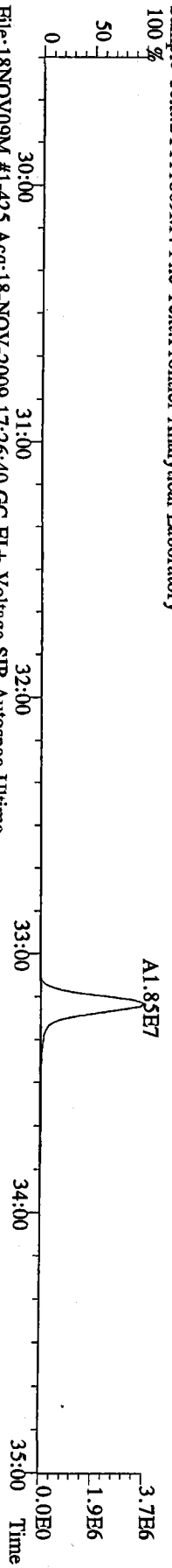
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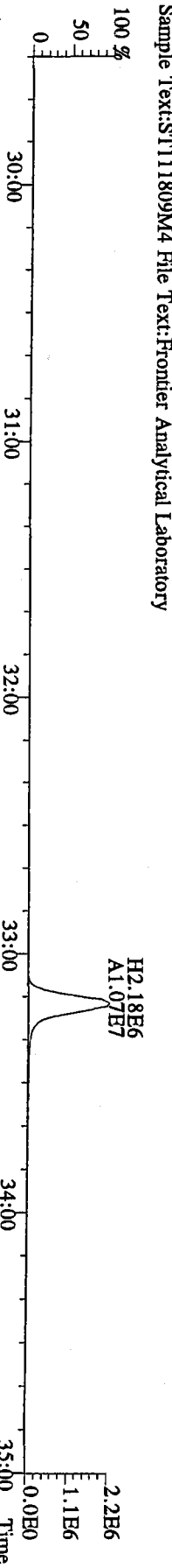
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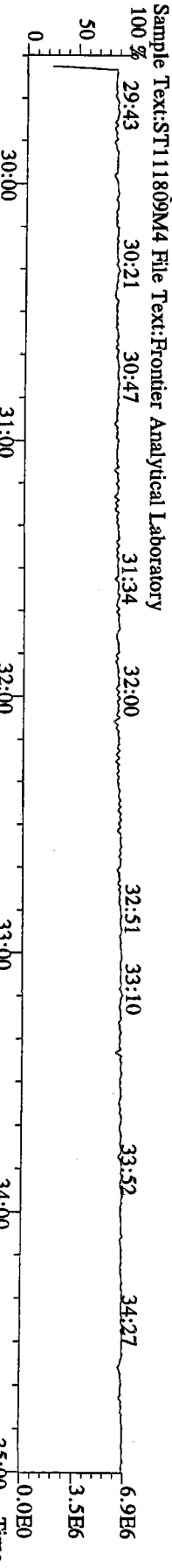
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367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
100 %



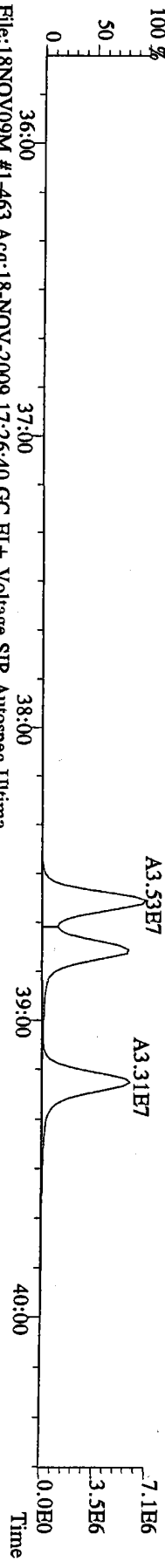
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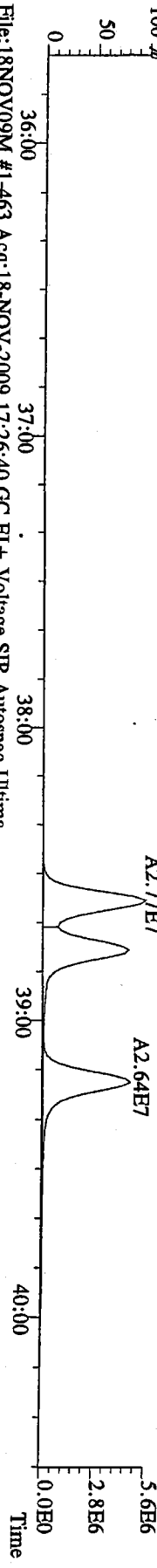
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366.9792 S:5 F:2 Exp:PCDD
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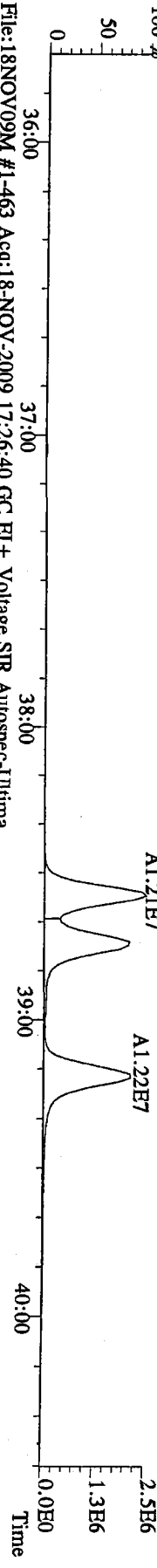
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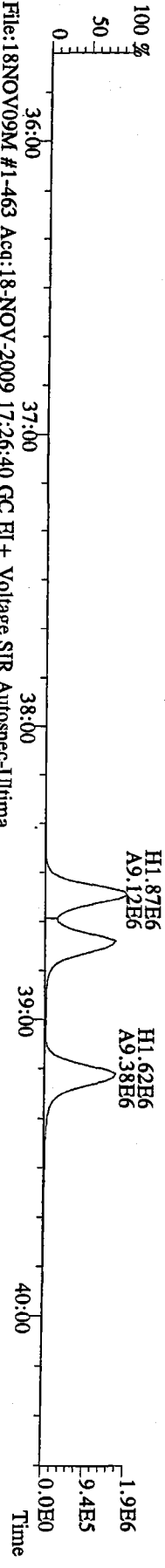
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391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



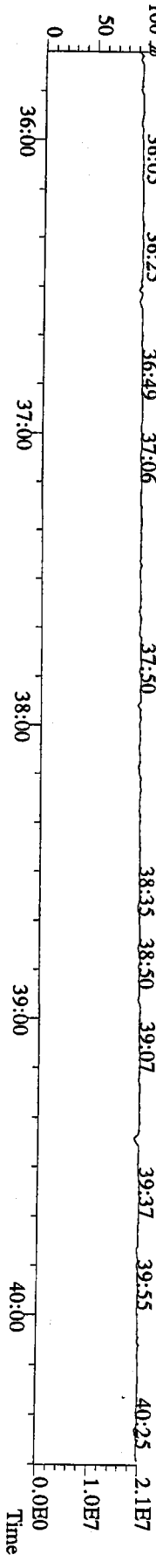
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401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



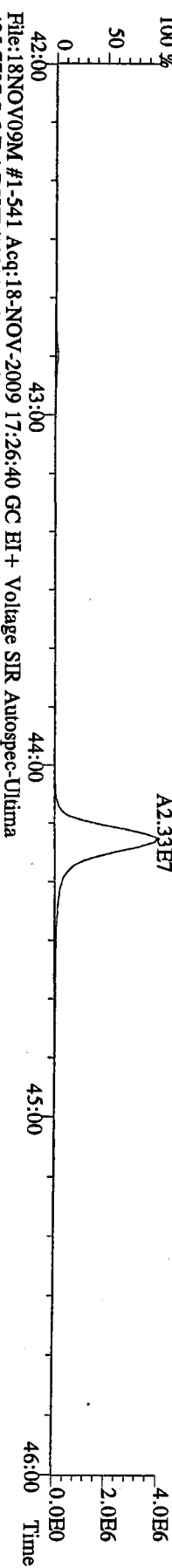
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403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



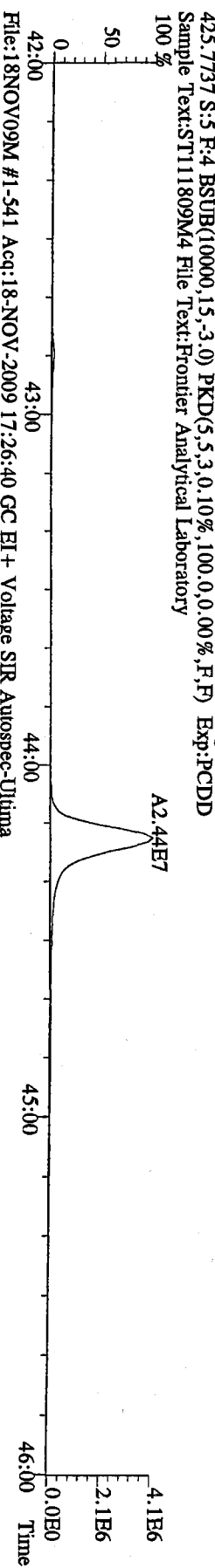
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380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



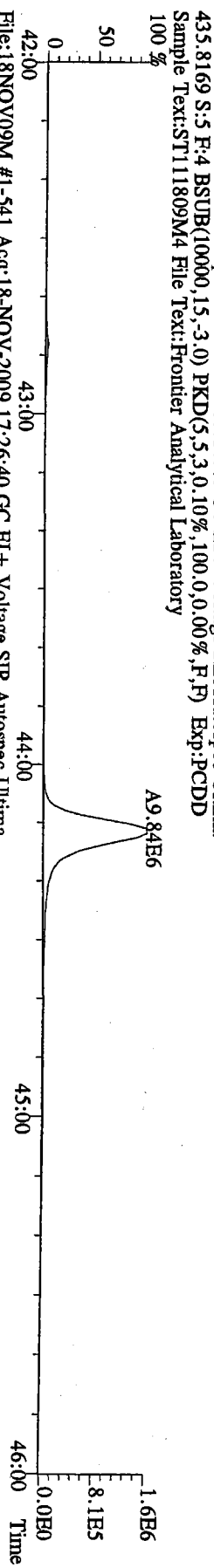
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423.7767 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
100 %



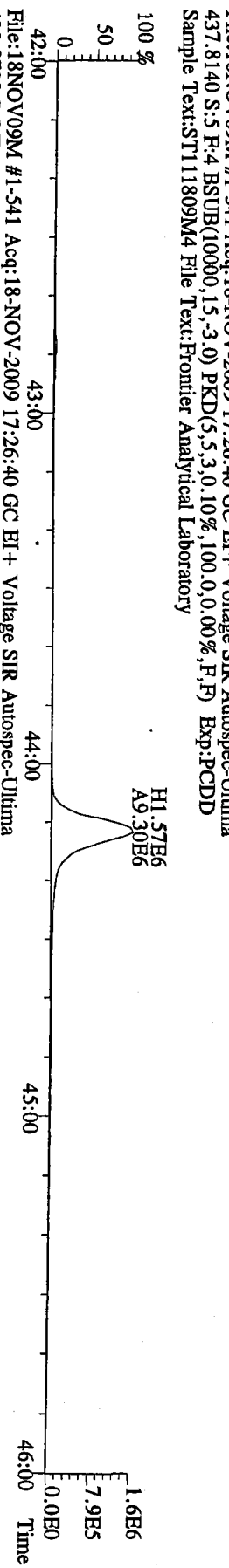
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425.7737 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
100 %



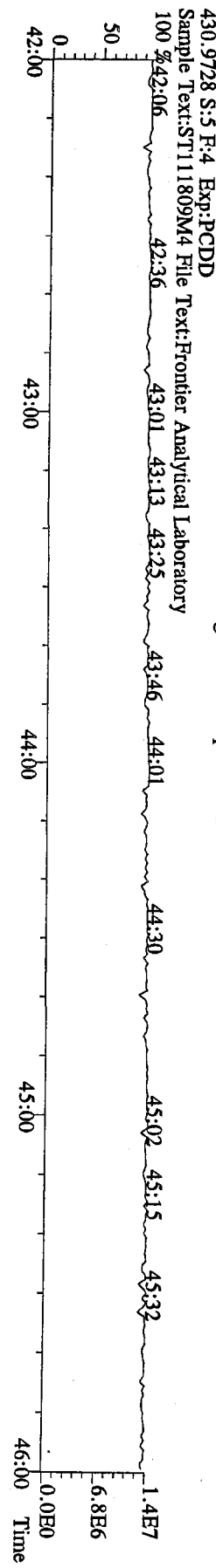
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435.8169 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
100 %



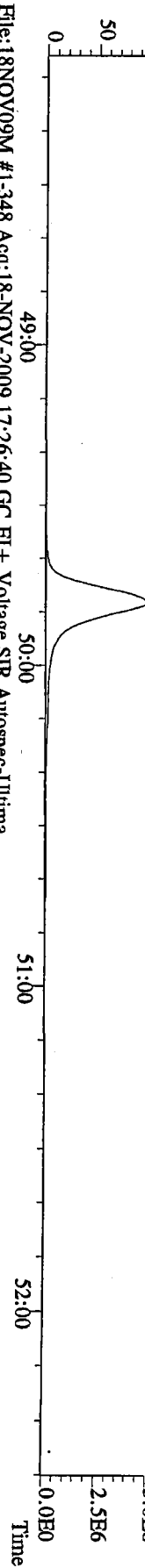
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437.8140 S:5 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



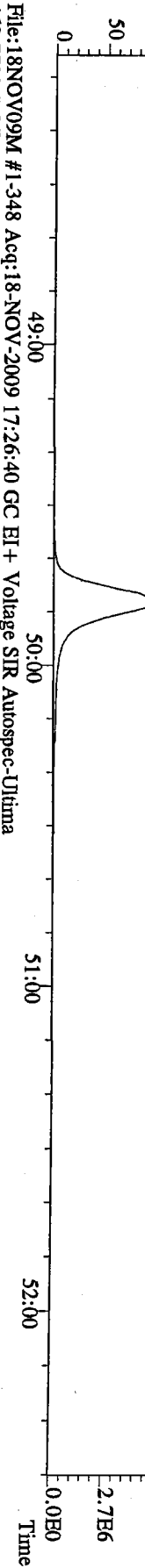
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430.9728 S:5 F:4 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



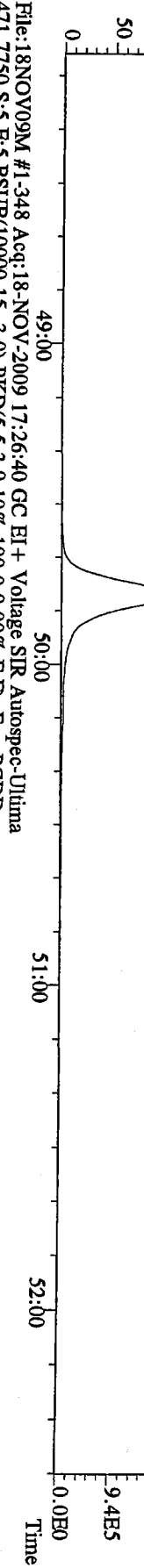
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 457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



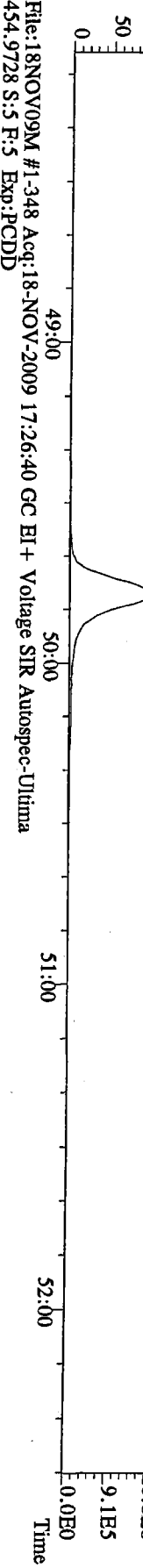
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 459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



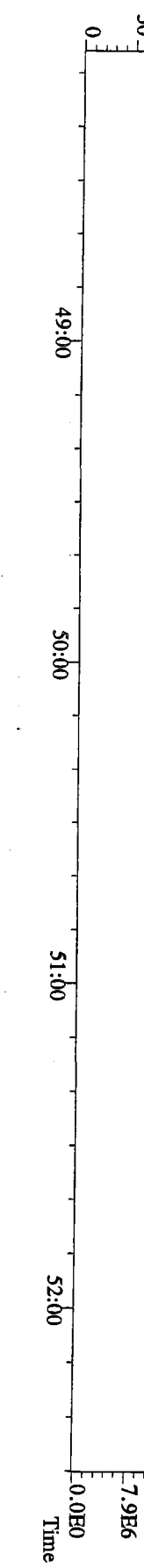
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 469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



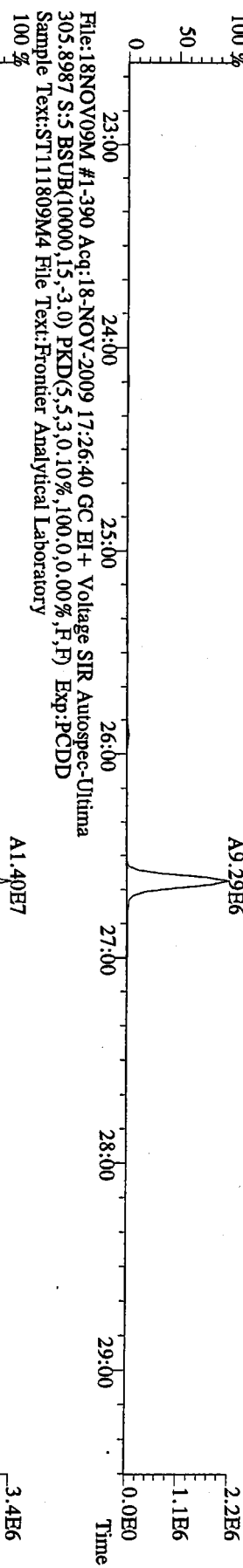
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 471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



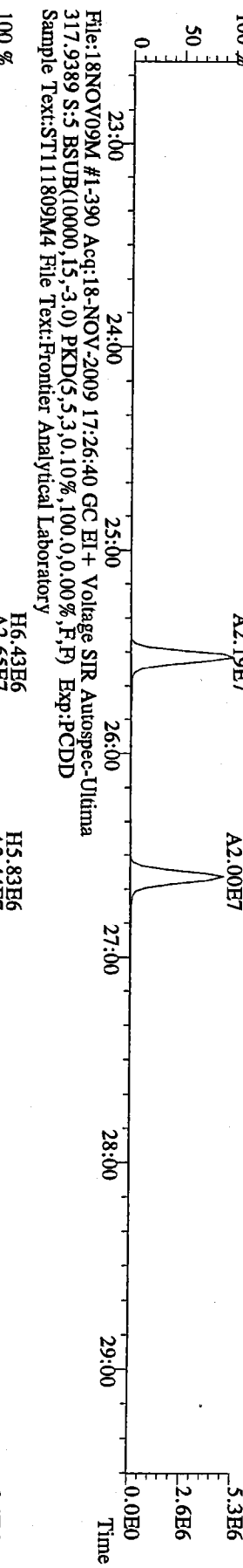
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:5 F:5 Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



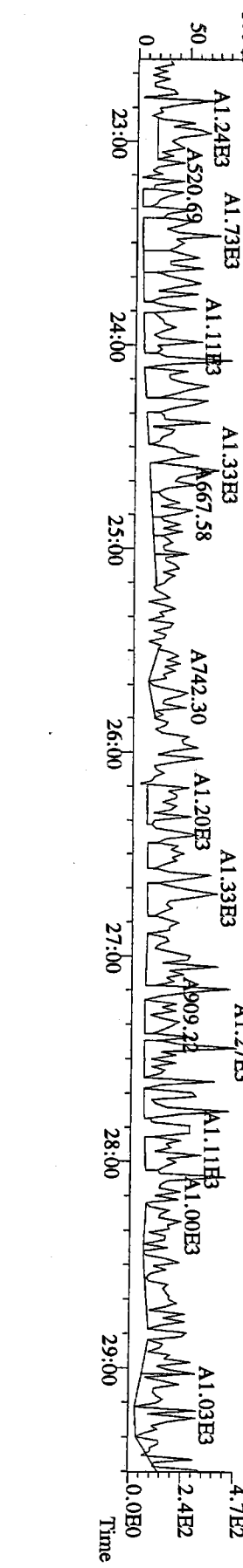
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



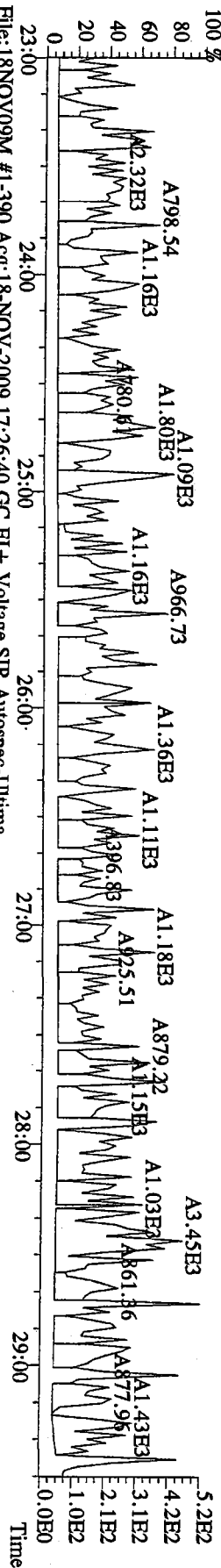
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 315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



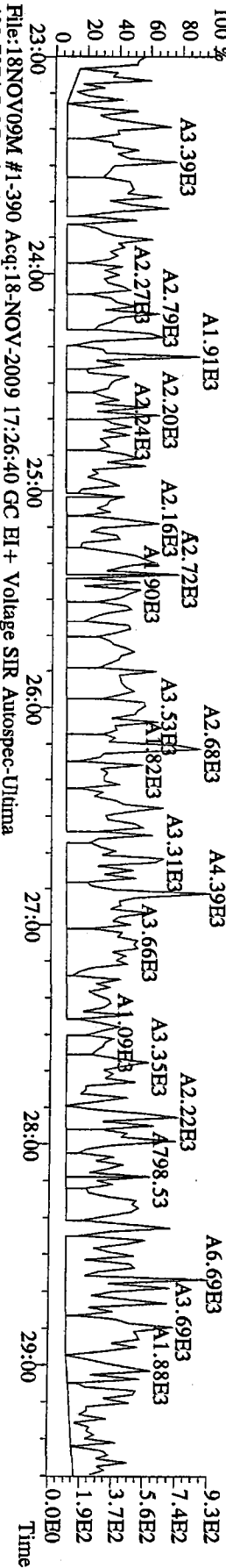
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



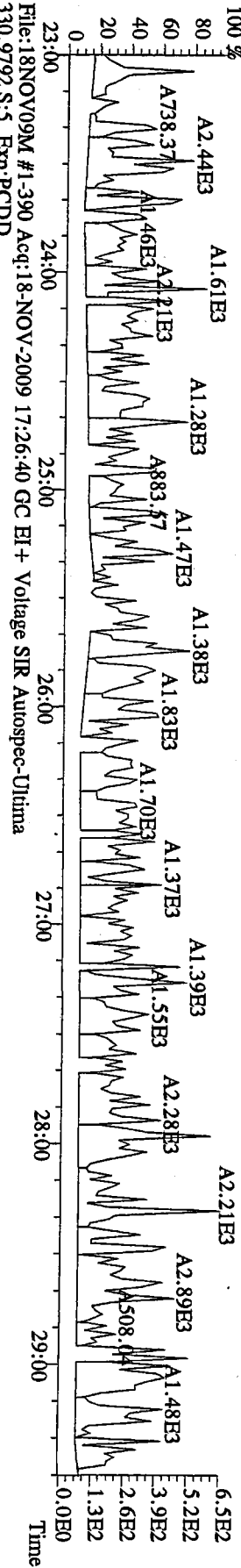
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



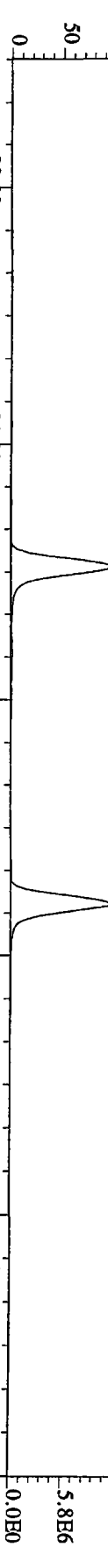
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409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



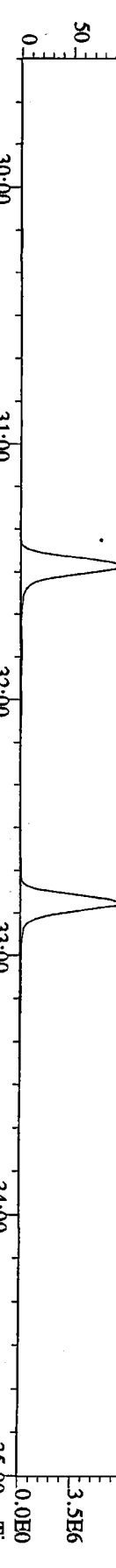
File:18NOV09M #1-390 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:5 Exp:PCDD
Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



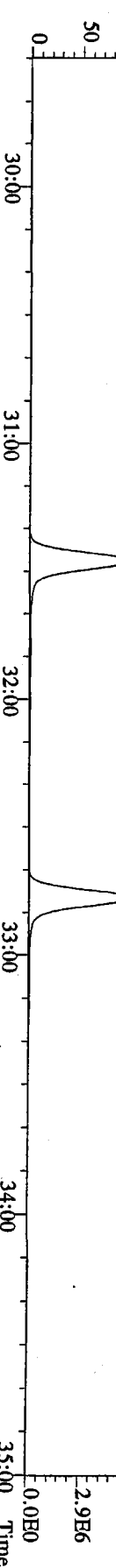
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



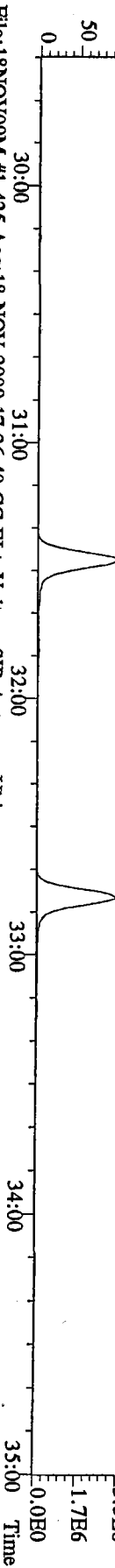
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



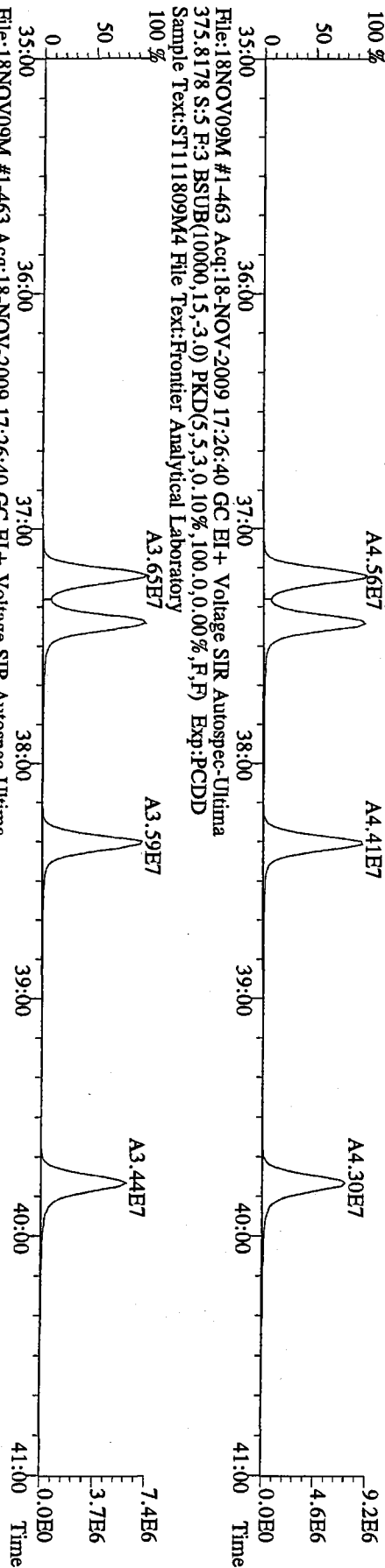
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 353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



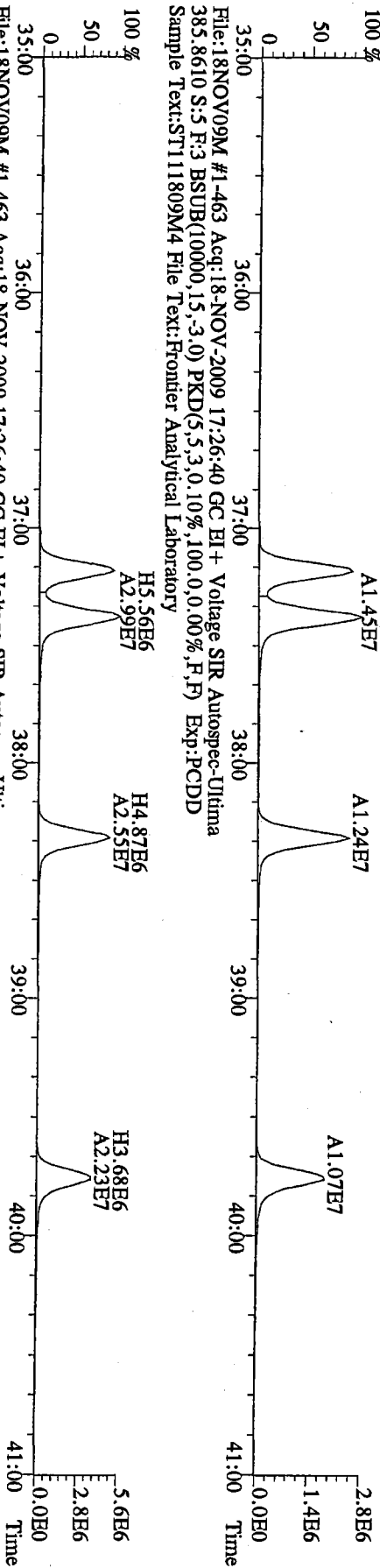
File:18NOV09M #1-425 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



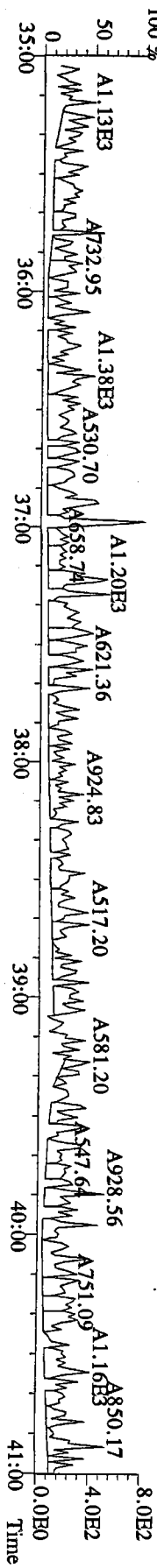
File:18NOV09M #1-463 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



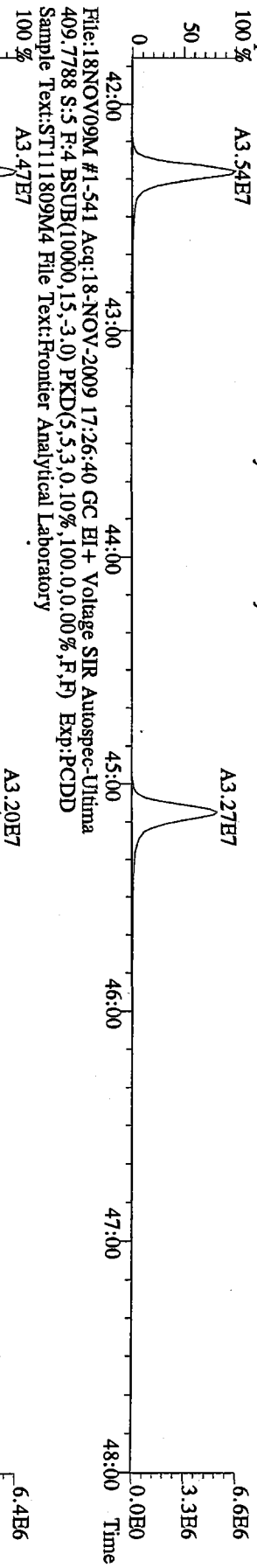
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 383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



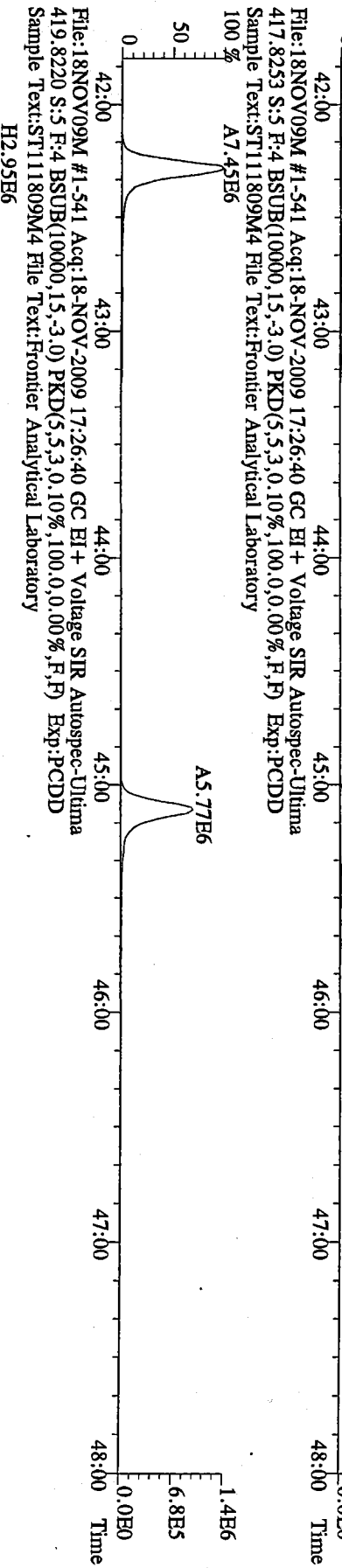
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 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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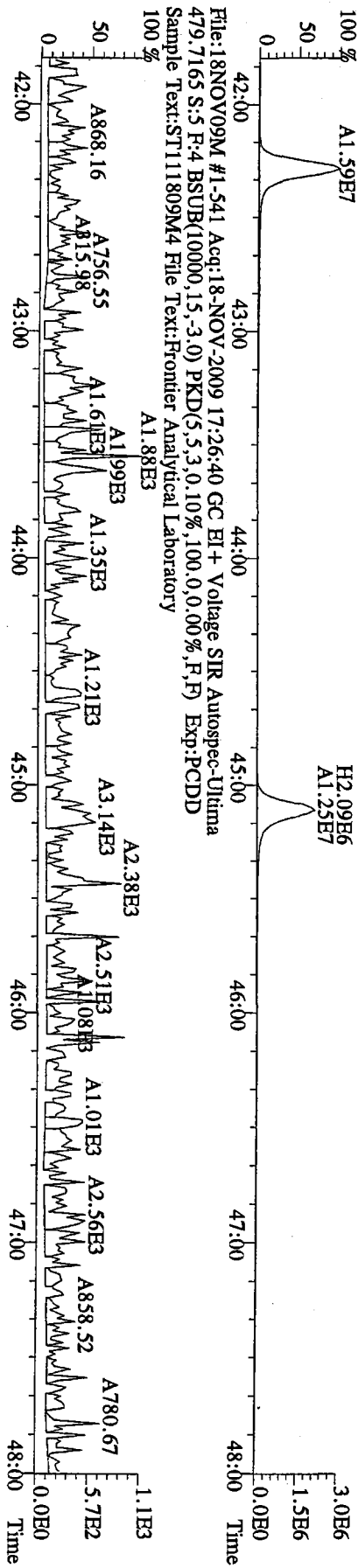
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 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 % A3.54E7



File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI + Voltage SIR Autospec-Ultima
 417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 % A7.45E6

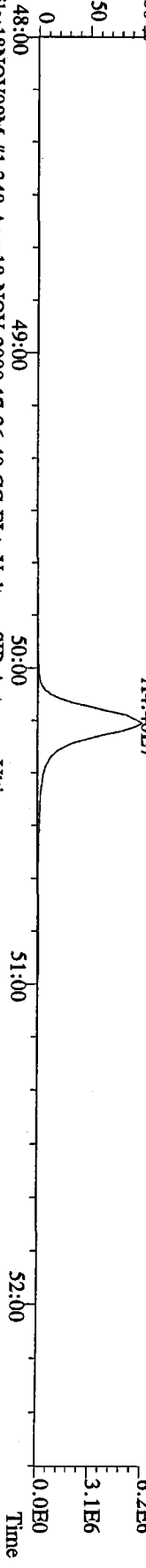


File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI + Voltage SIR Autospec-Ultima
 419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 % H2.95E6
 A1.59E7

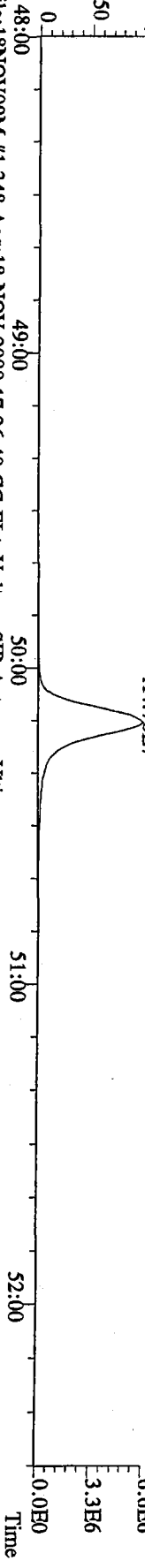


File:18NOV09M #1-541 Acq:18-NOV-2009 17:26:40 GC EI + Voltage SIR Autospec-Ultima
 479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 % A868.16
 A756.55
 A815.98
 A1.61E3
 A1.99E3
 A1.35E3
 A1.21E3
 A3.14E3
 A2.38E3
 A2.51E3
 A1.08E3
 A1.01E3
 A2.56E3
 A858.52
 A780.67

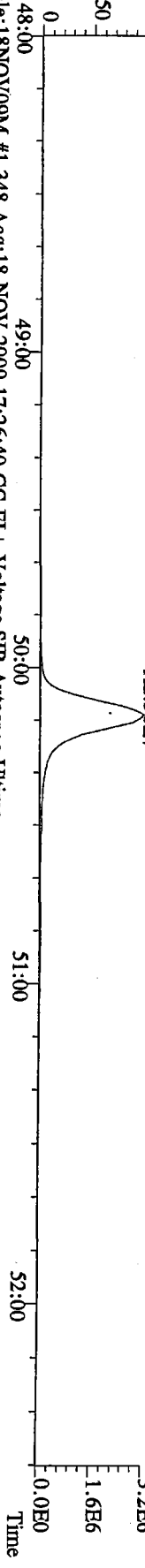
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 441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 %



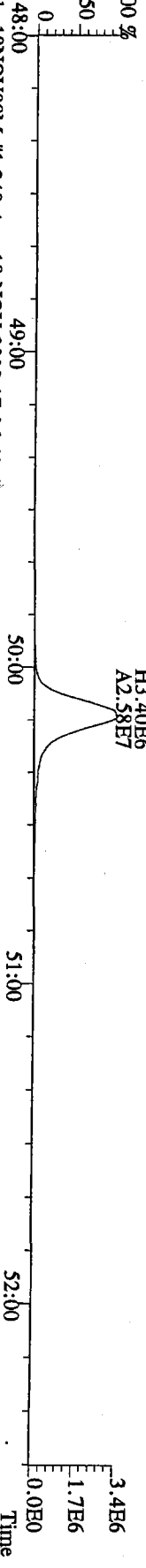
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 443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 %



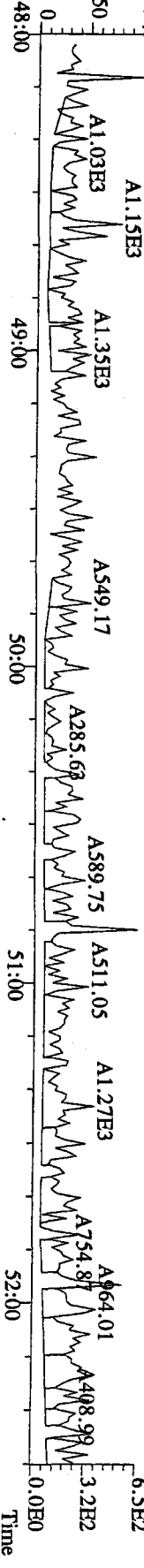
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 %



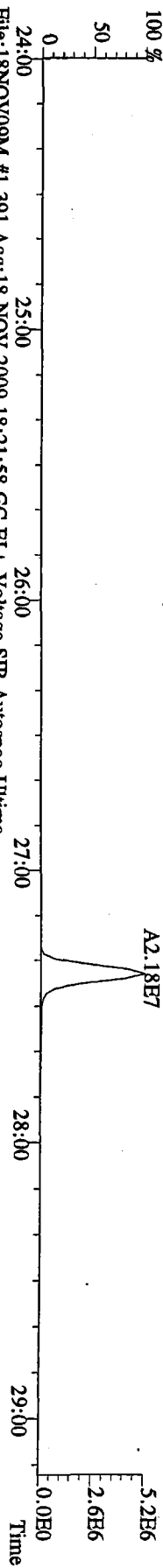
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 455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory



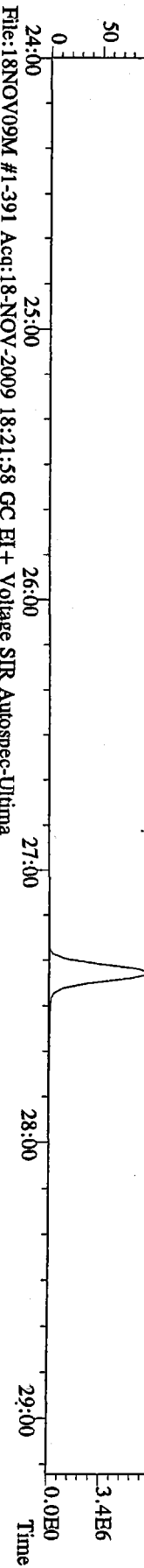
File:18NOV09M #1-348 Acq:18-NOV-2009 17:26:40 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M4 File Text:Frontier Analytical Laboratory
 100 %



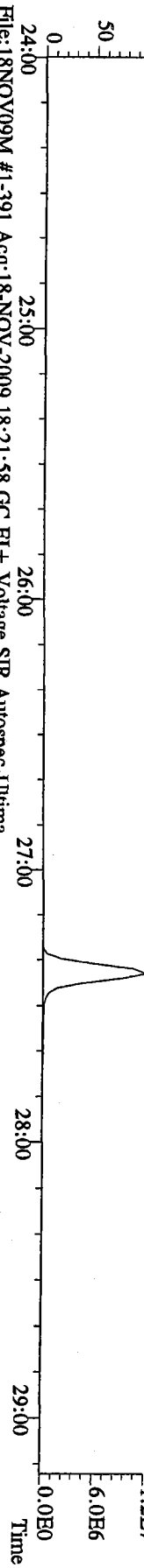
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



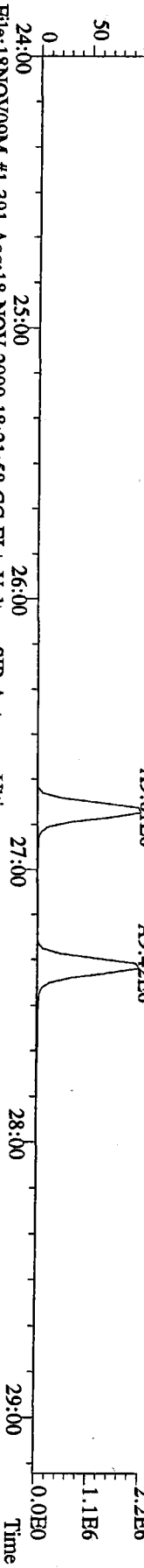
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



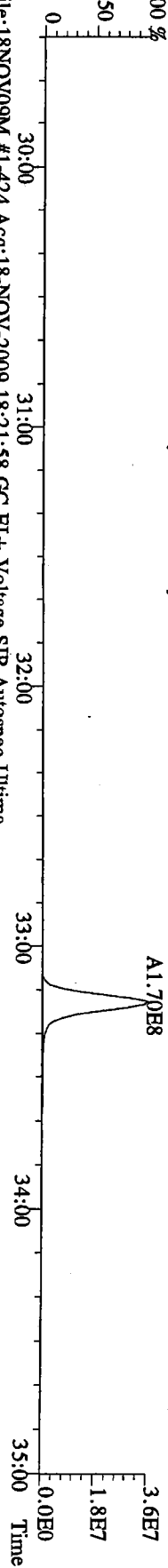
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



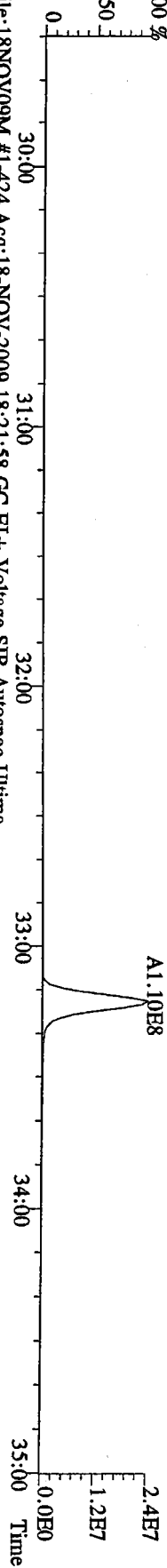
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333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



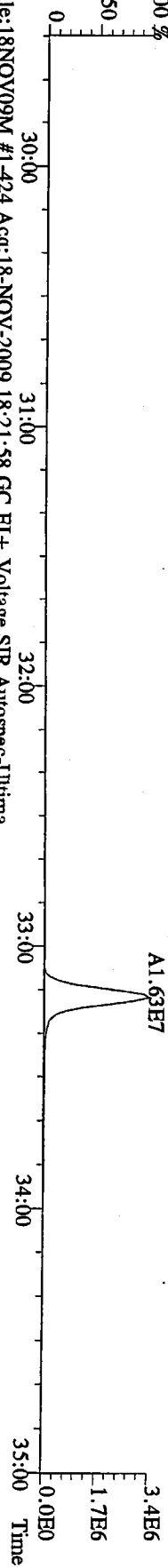
File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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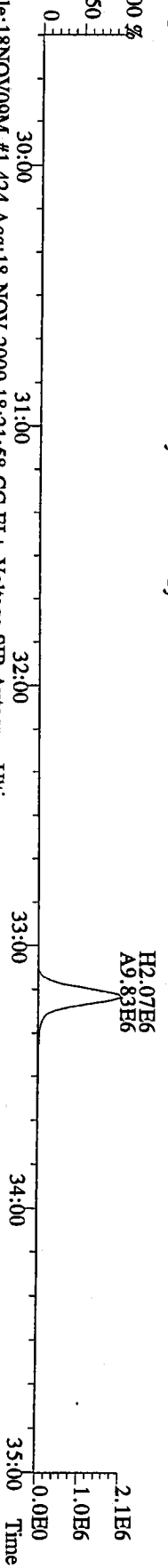
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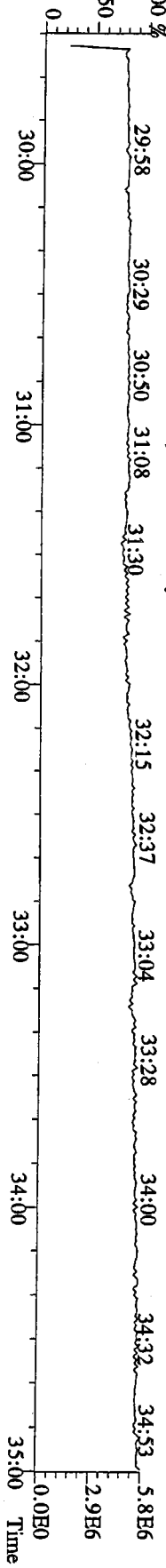
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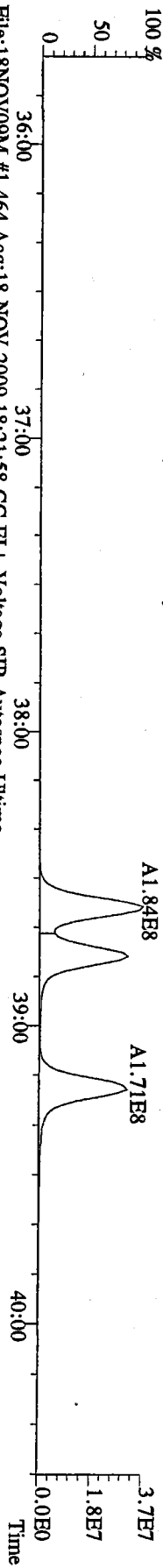
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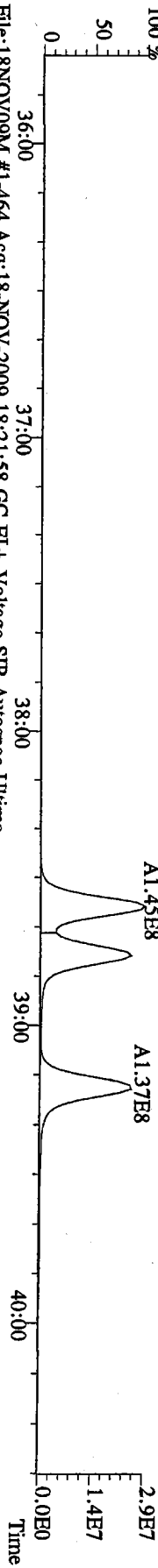
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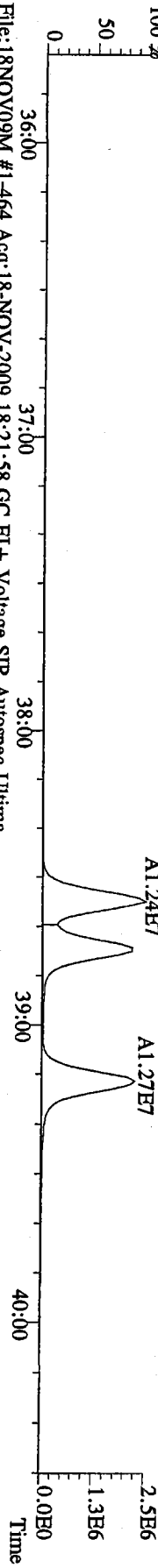
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389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



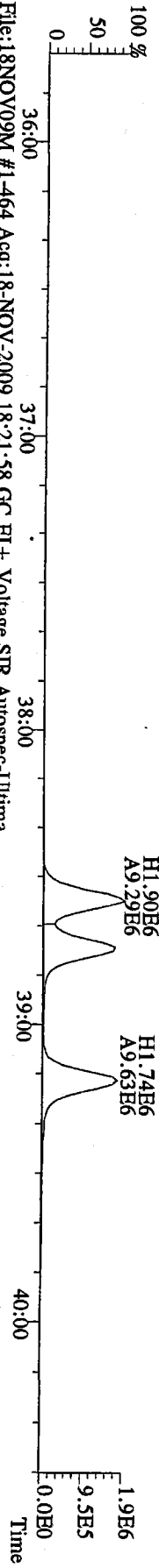
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391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



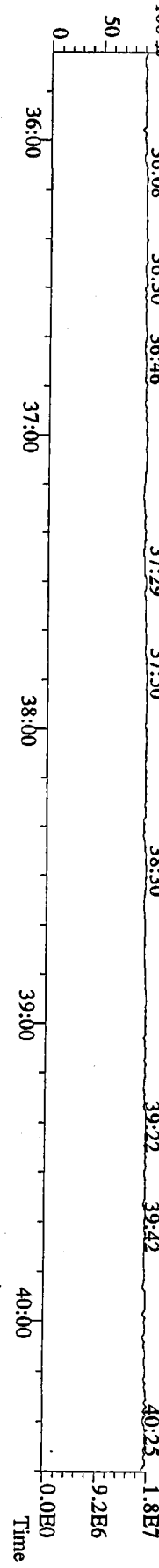
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401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



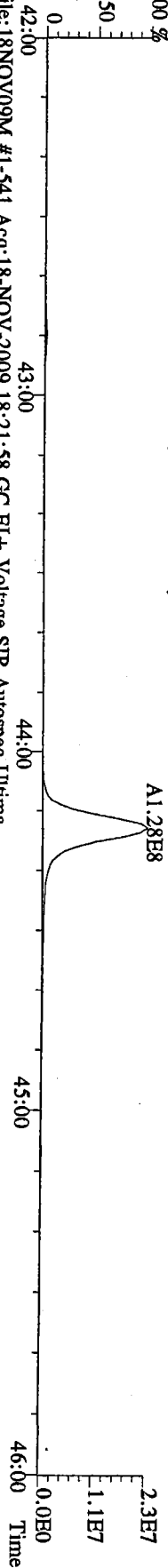
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Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



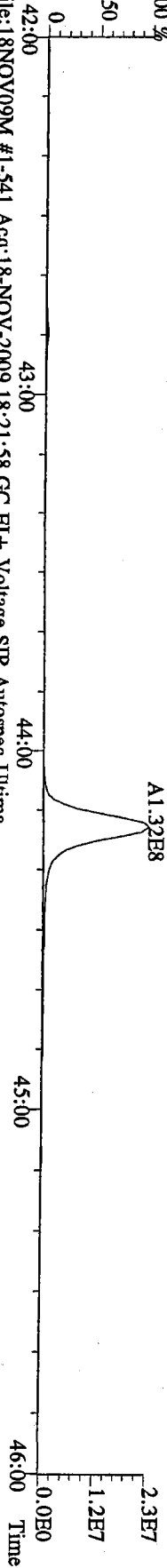
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Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



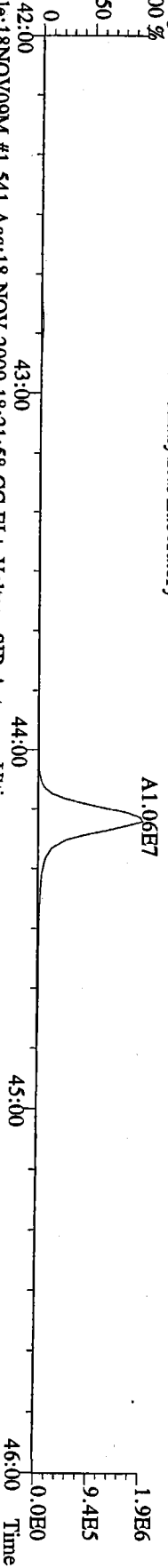
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423.7767 S:6 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



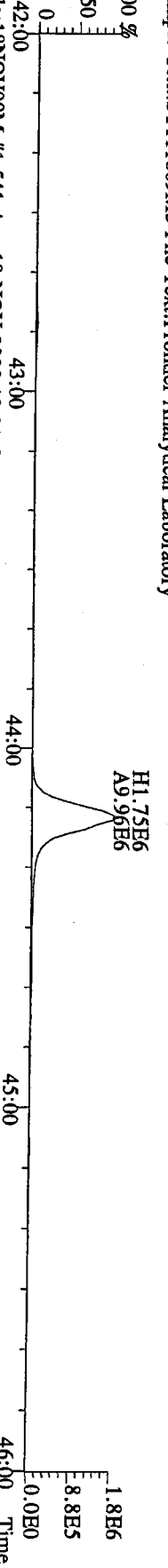
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425.7737 S:6 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



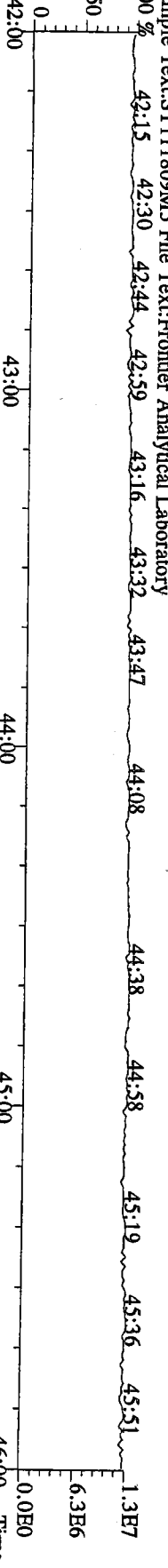
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Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



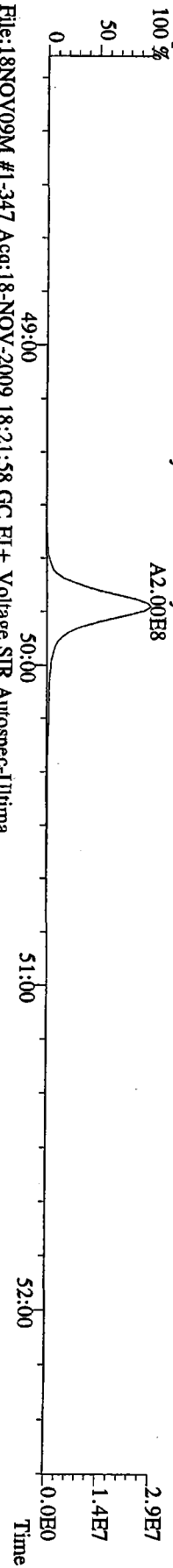
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437.8140 S:6 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



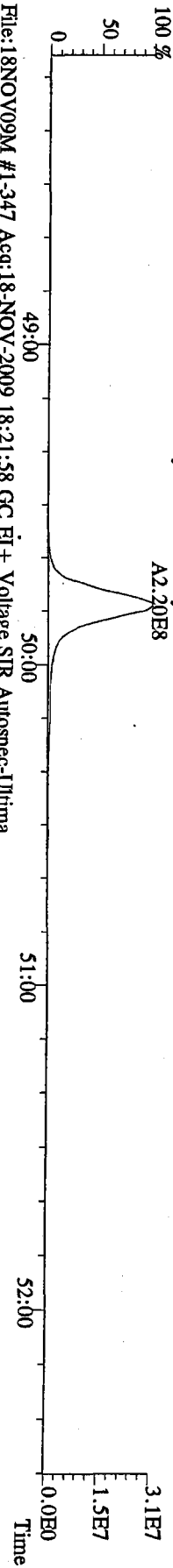
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430.9728 S:6 F:4 Exp:PCDD
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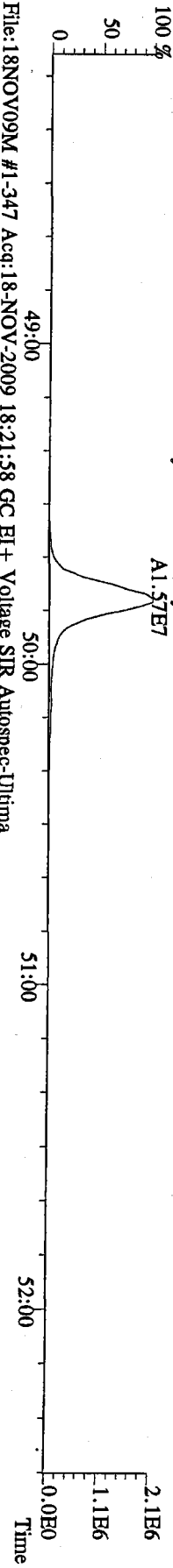
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457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



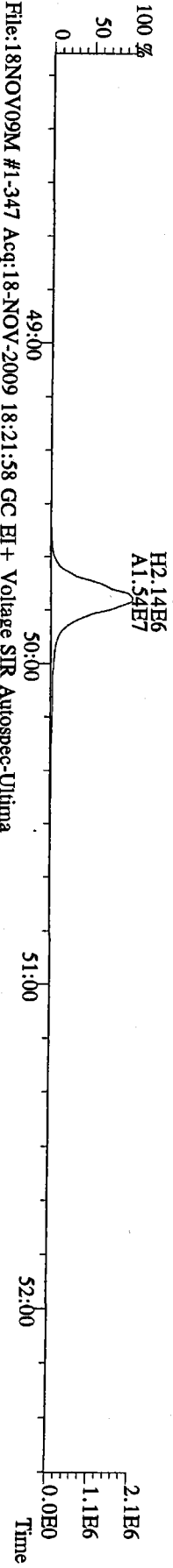
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459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



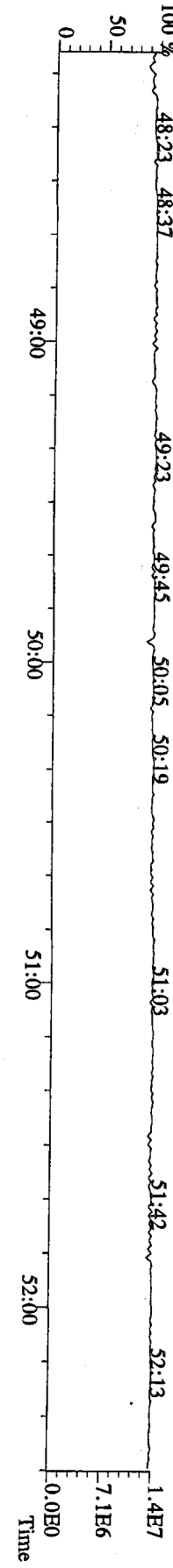
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Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



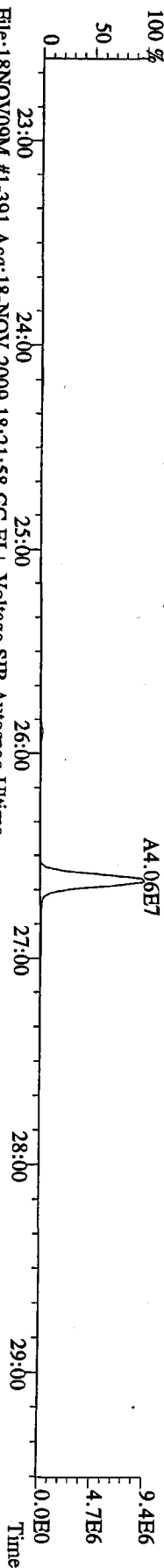
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Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
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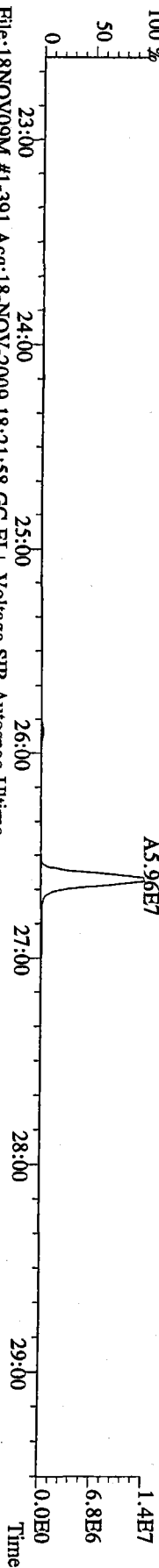
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Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



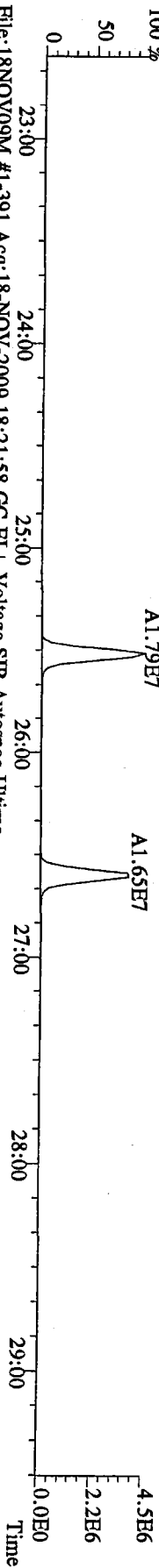
File:18NOV09M #1-391 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
 305.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD
 Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



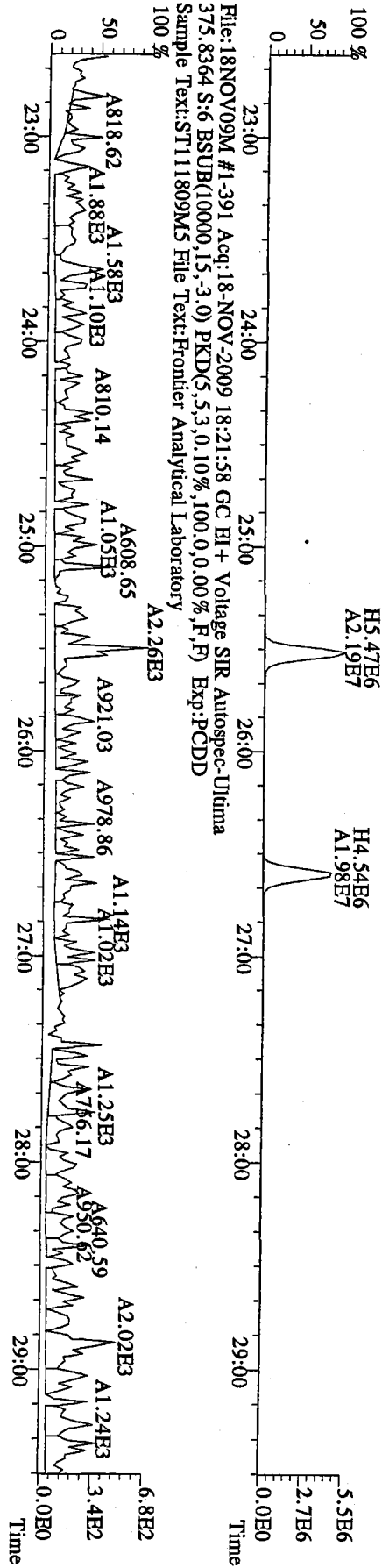
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 315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD
 Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



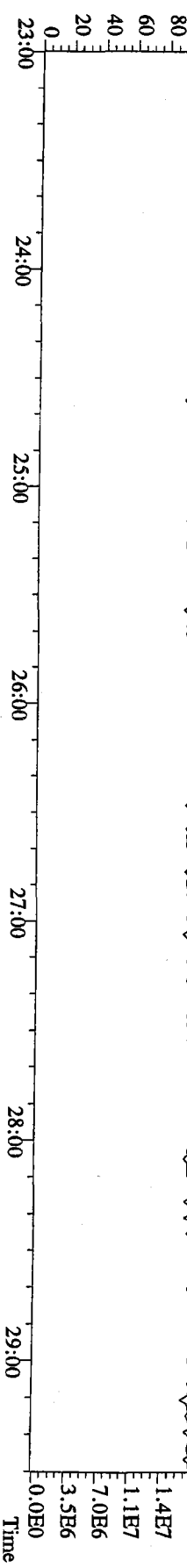
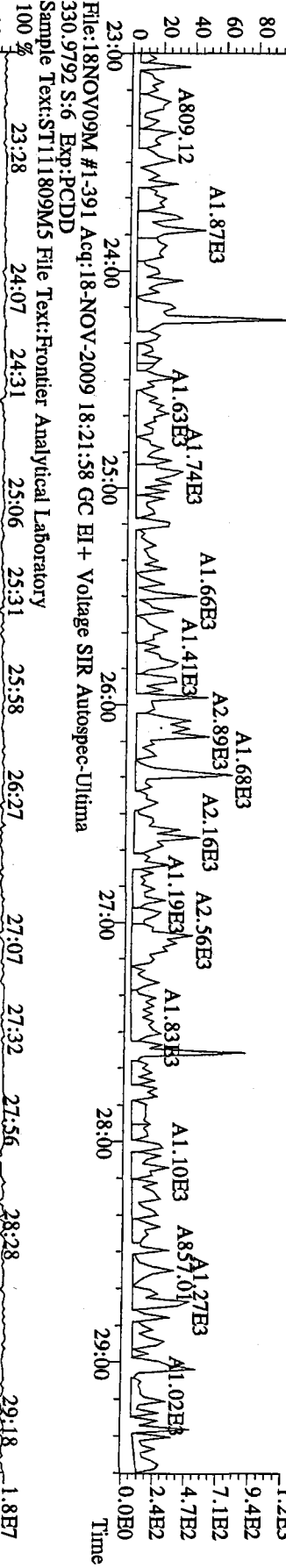
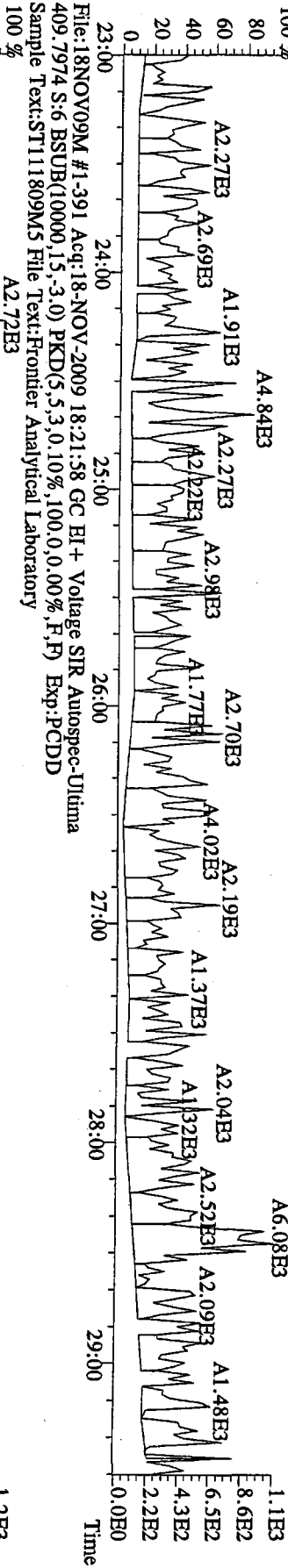
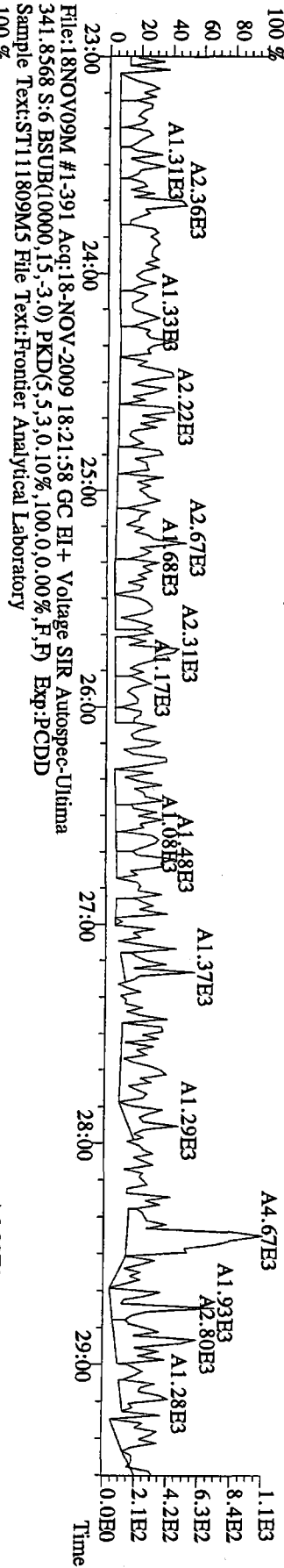
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 317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD
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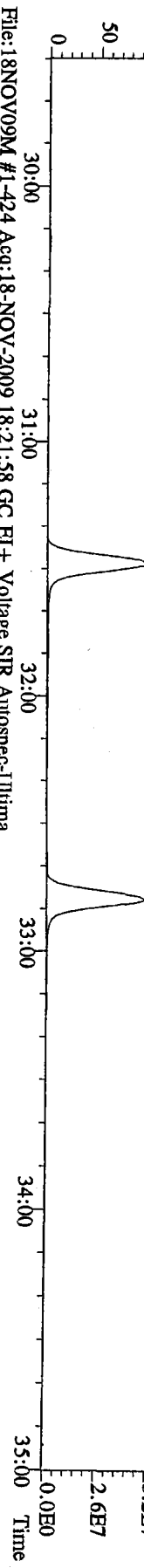
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 375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:PCDD
 Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



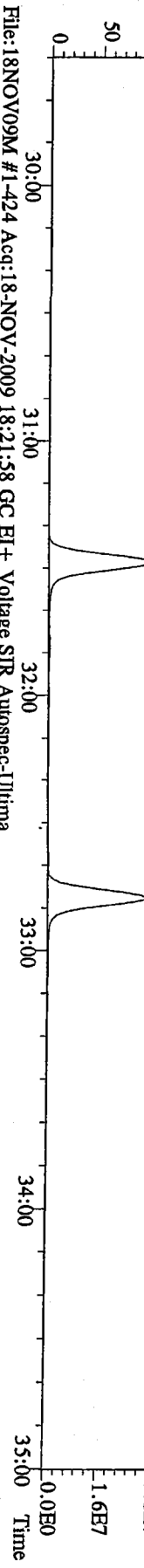
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 339.8597 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



File:18NOV09M #1-424 Acq:18-NOV-2009 18:21:58 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
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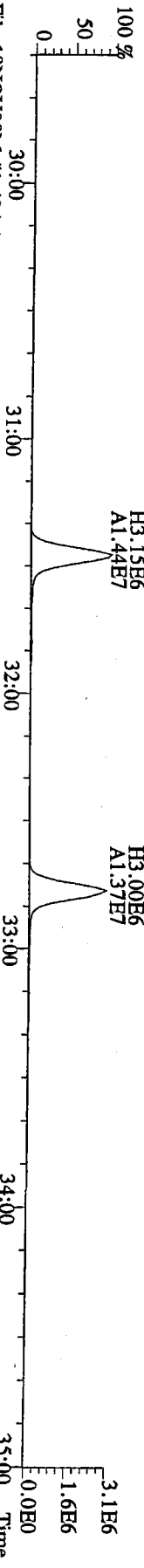
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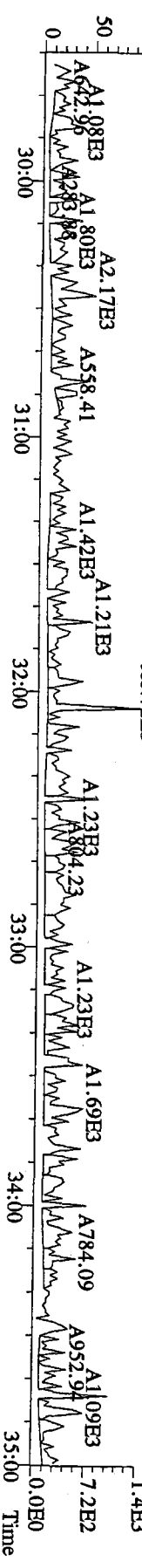
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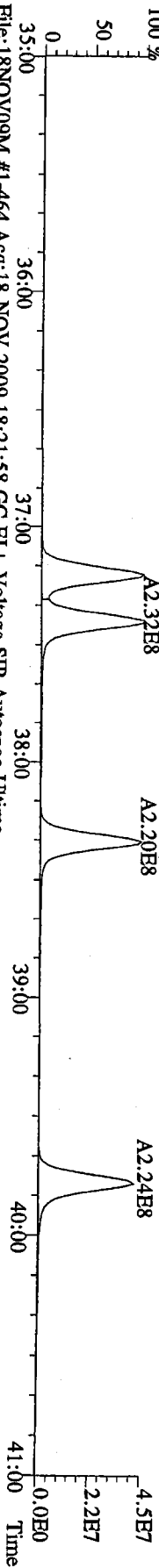
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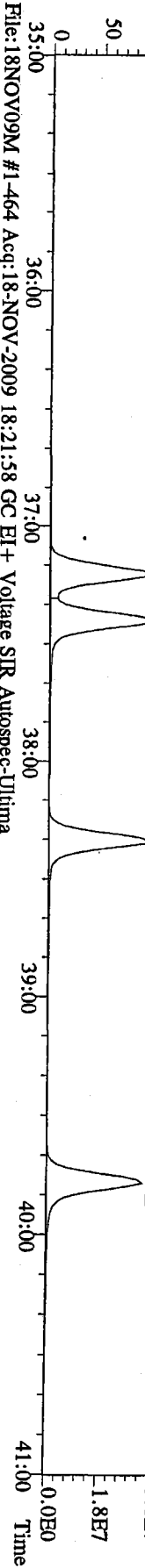
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 409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



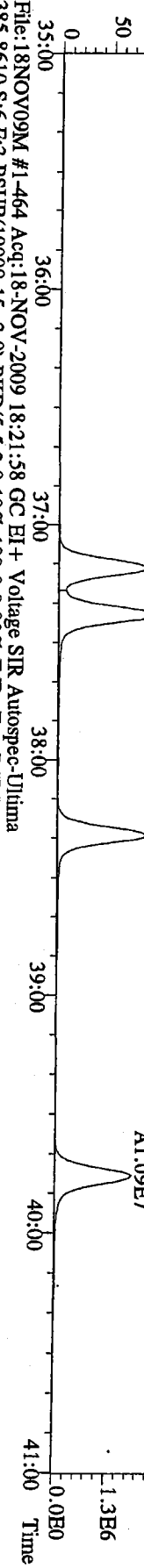
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373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



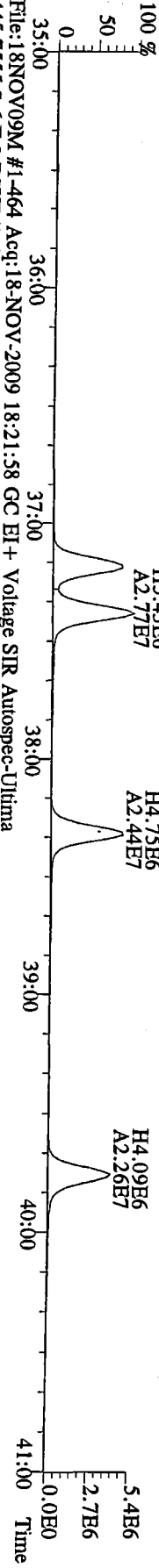
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Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



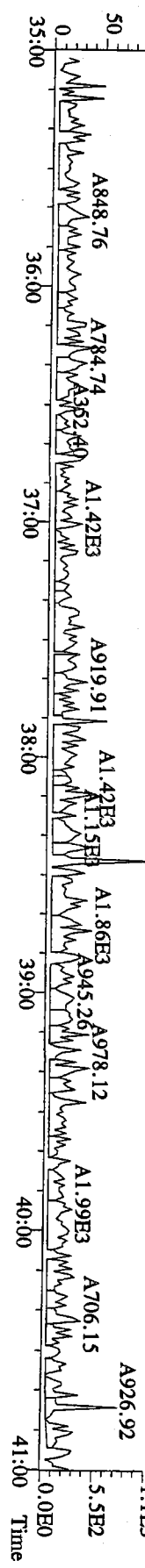
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383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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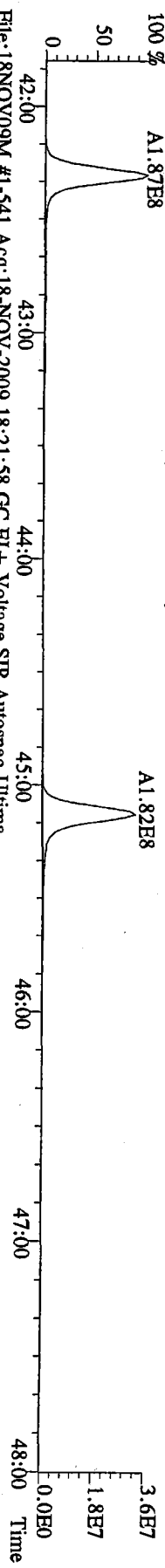
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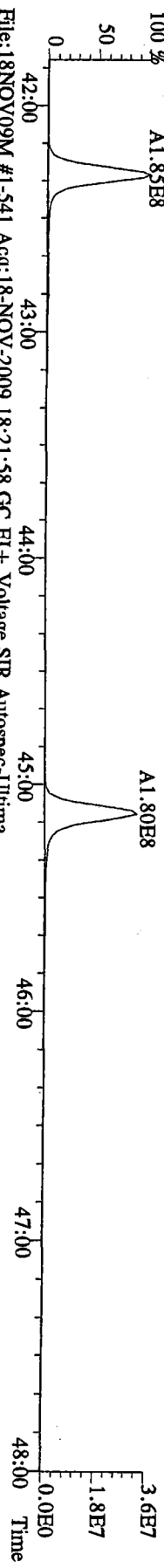
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445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



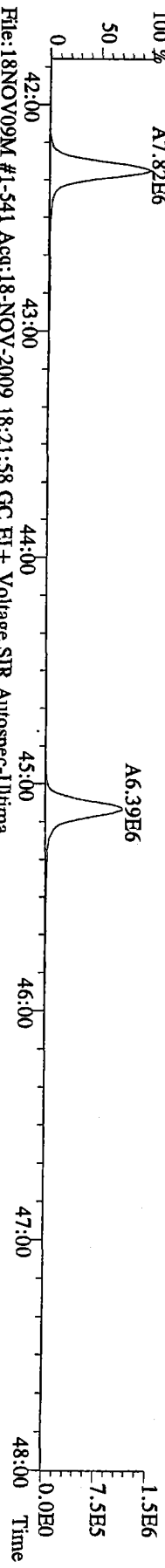
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 407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



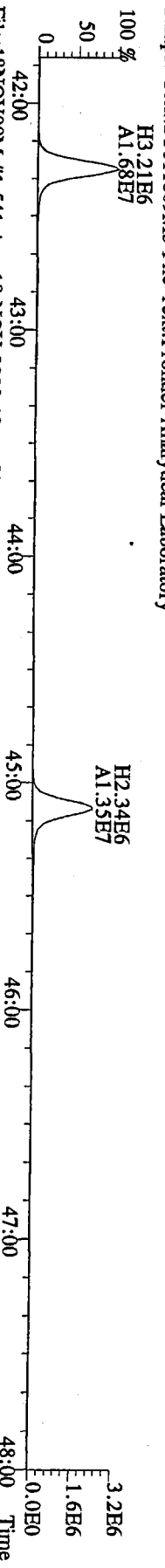
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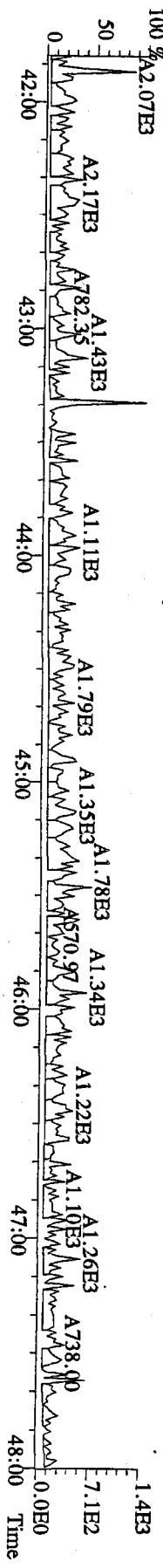
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 417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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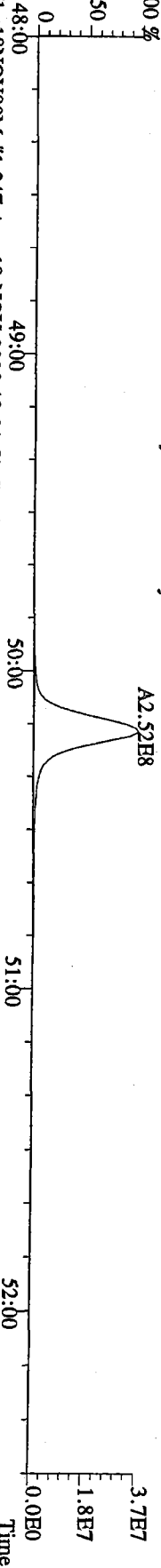
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 419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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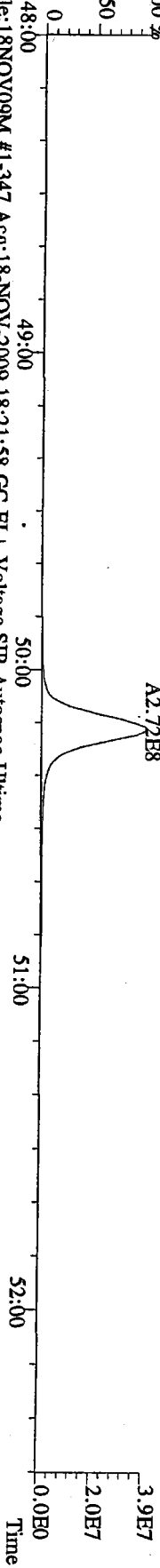
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 479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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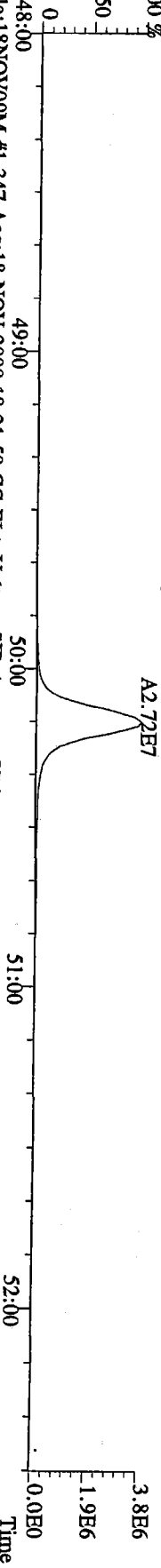
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441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



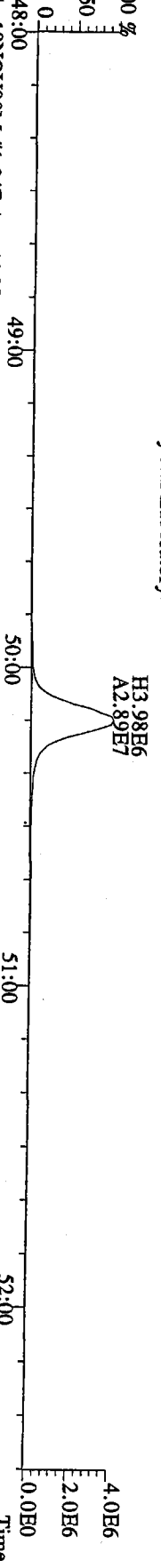
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



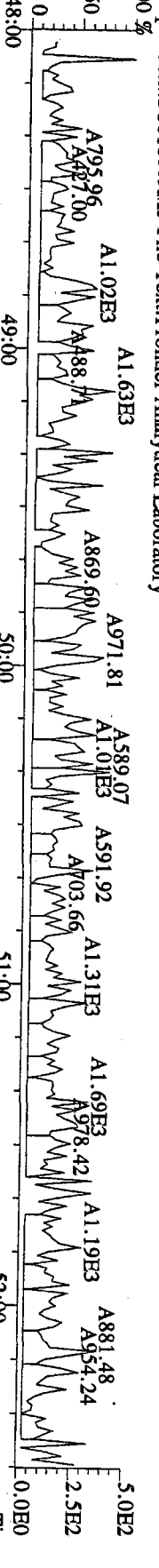
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory
100 %



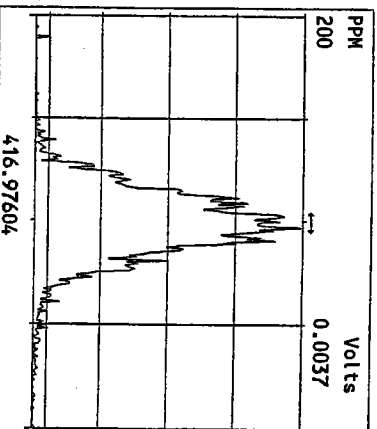
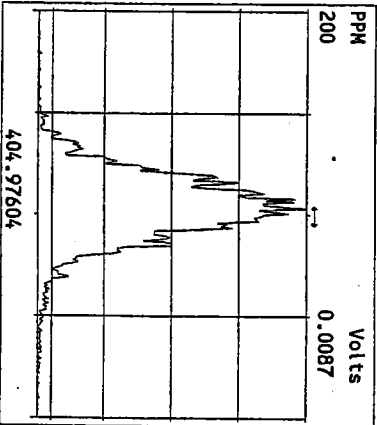
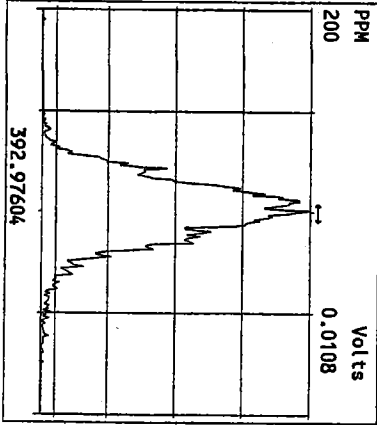
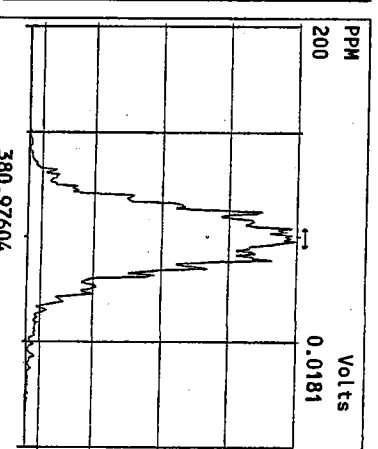
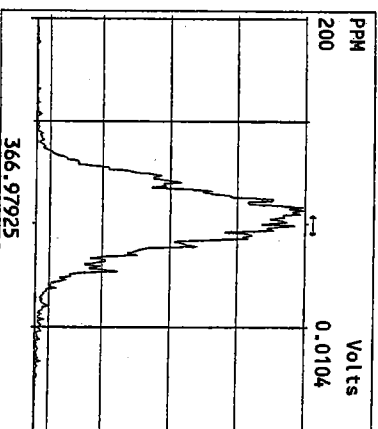
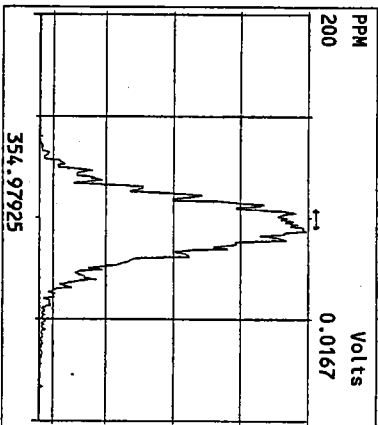
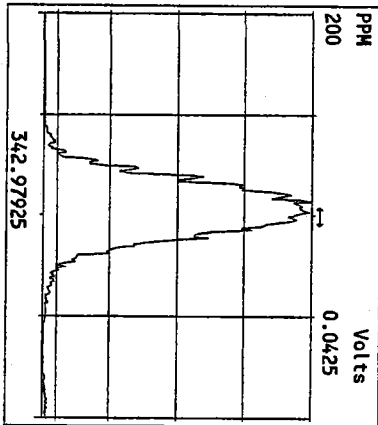
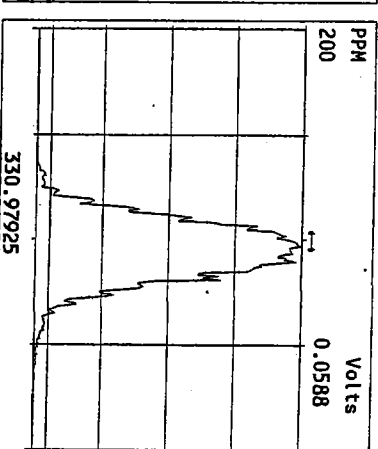
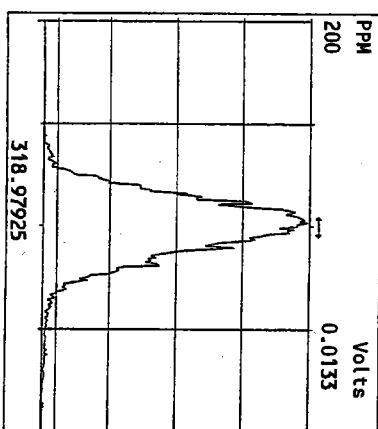
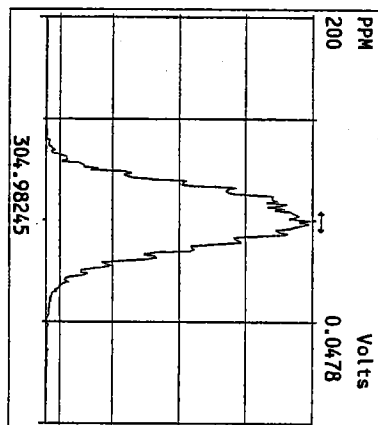
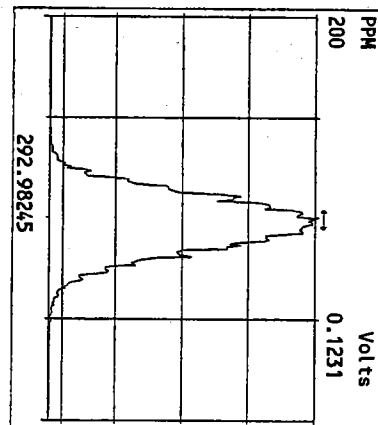
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455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory



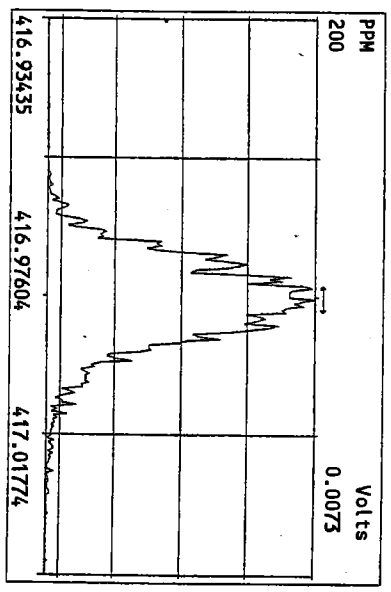
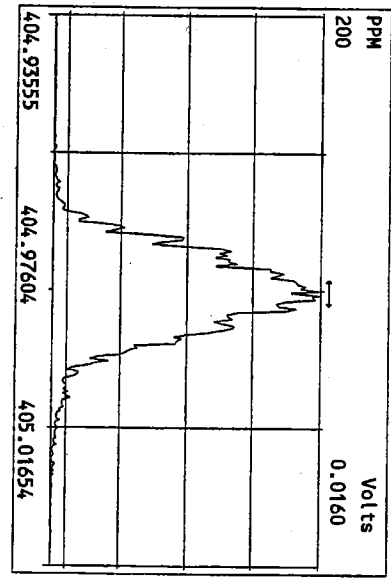
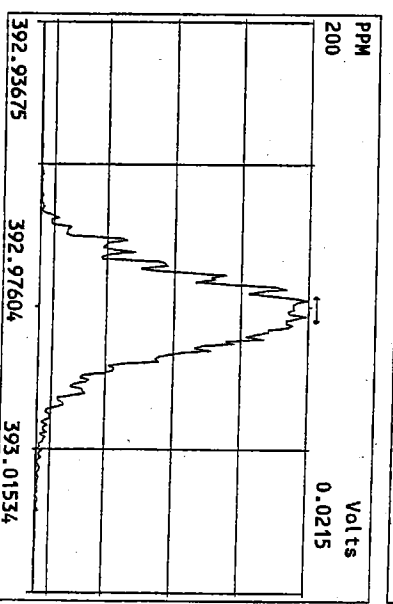
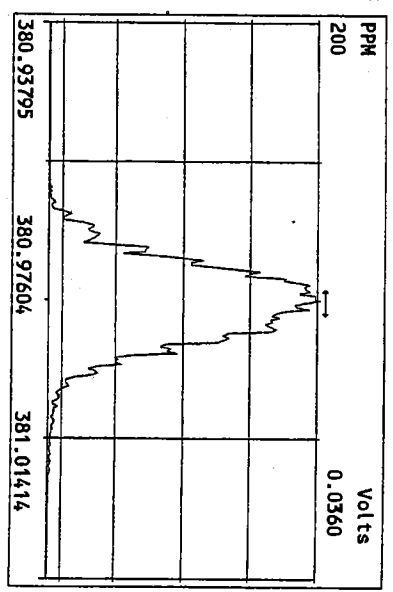
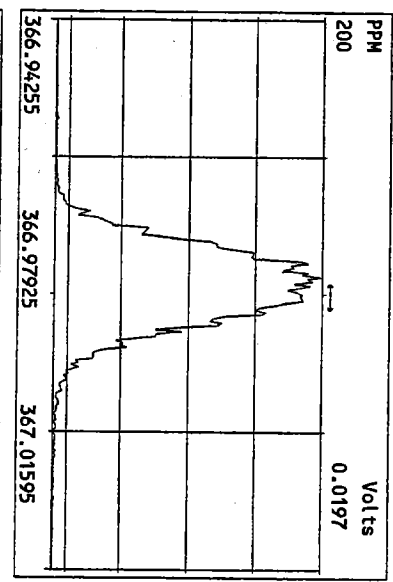
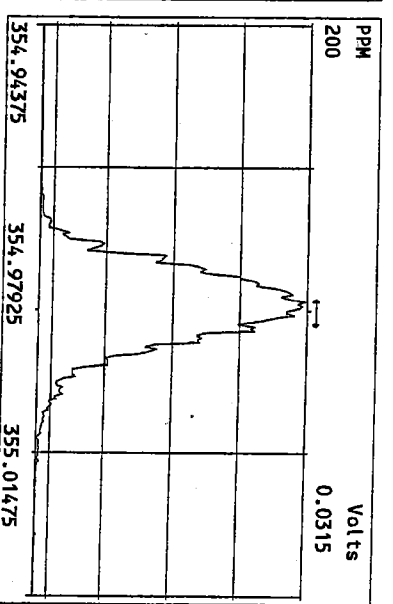
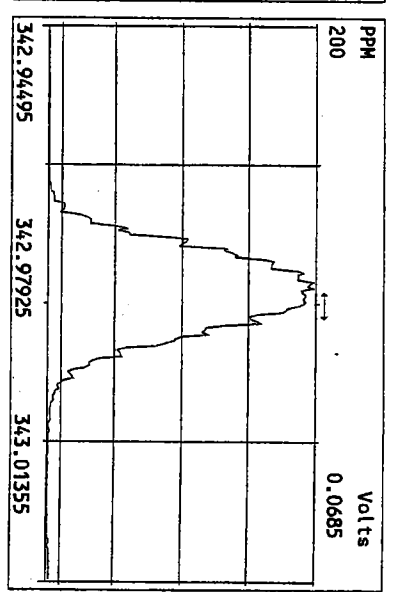
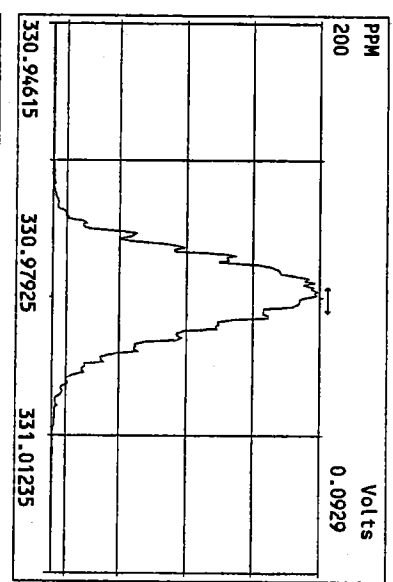
File:18NOV09M #1-347 Acq:18-NOV-2009 18:21:58 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST111809M5 File Text:Frontier Analytical Laboratory

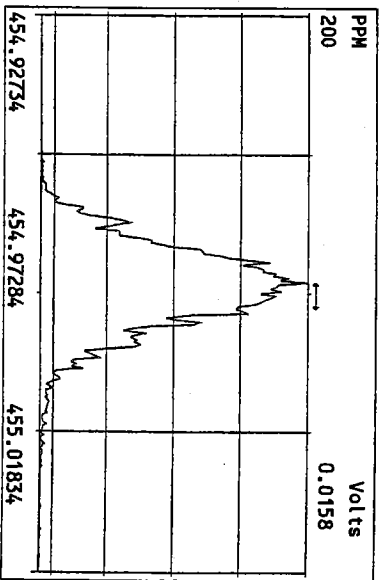
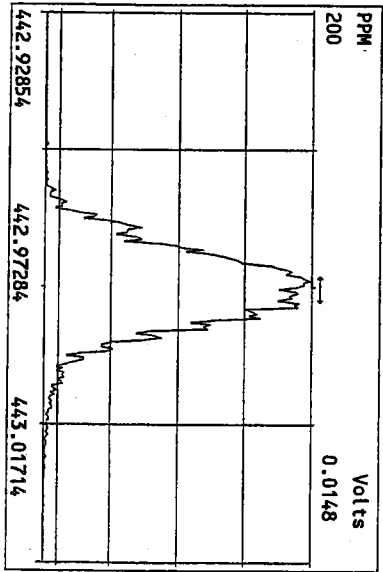
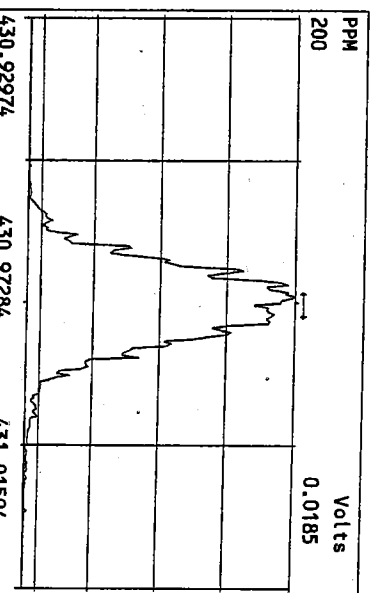
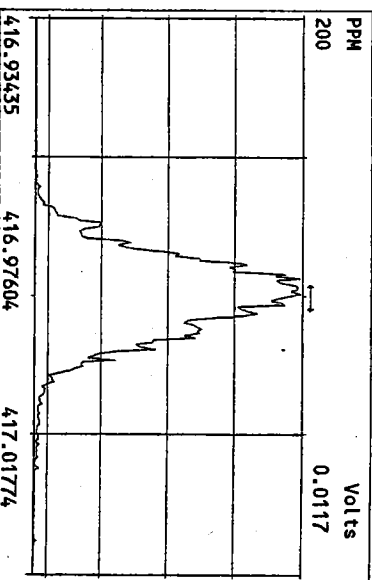
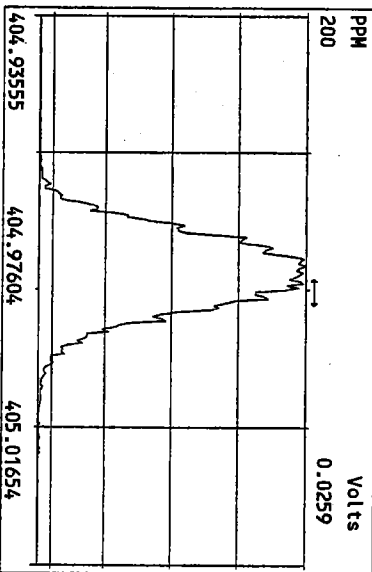
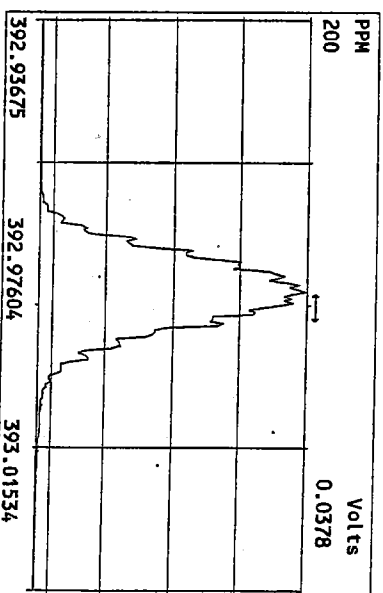
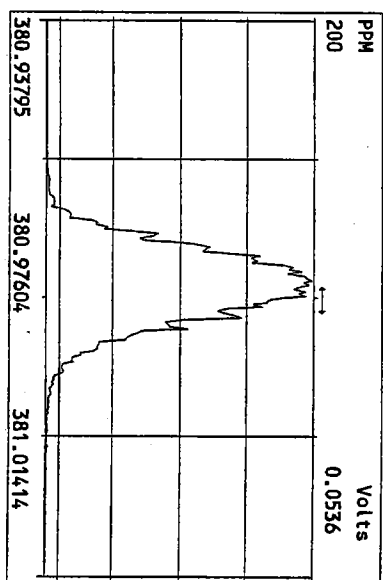
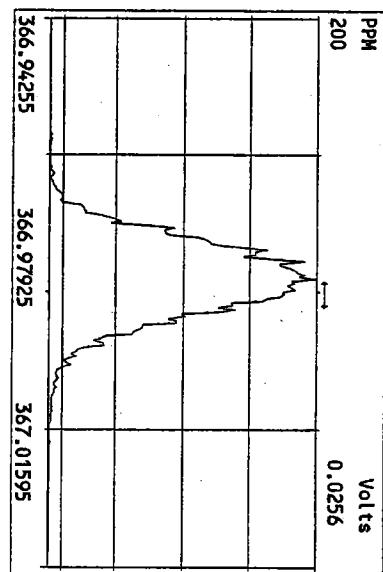


Peak Locate Examination: 19-NOV-2009:14:42 File: 18NOV09M_RES_CHECK
Experiment: PCDD Function: 1 Reference: PFK

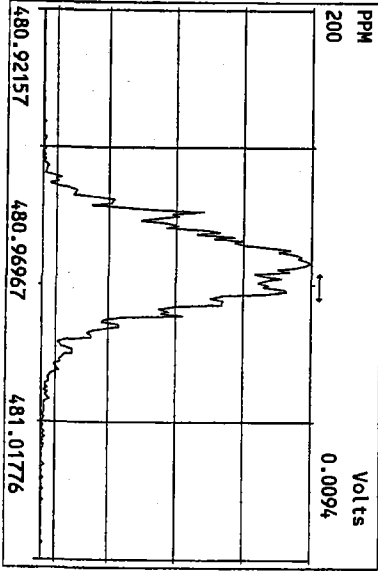
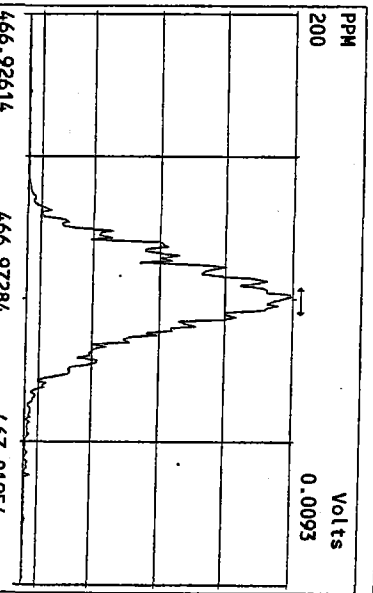
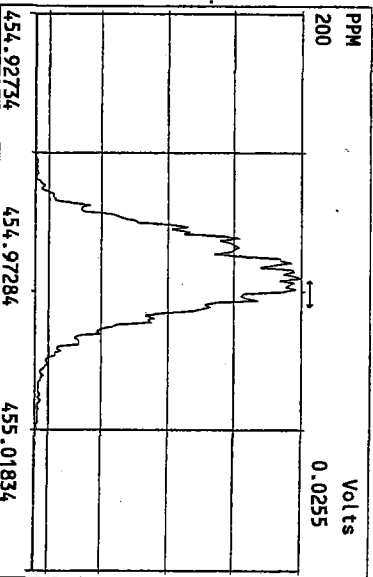
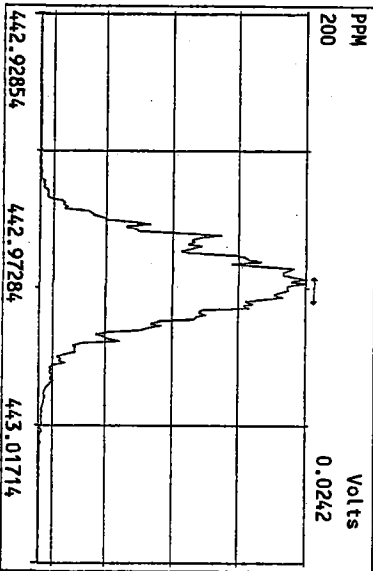
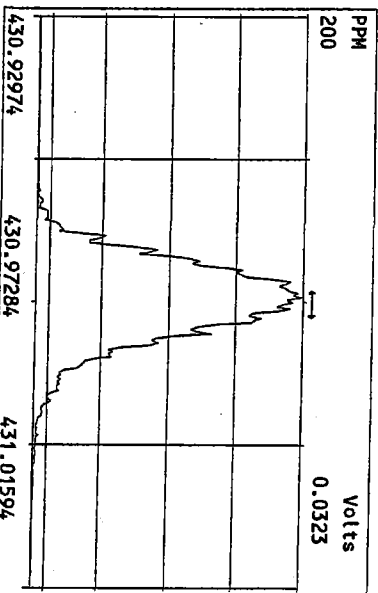
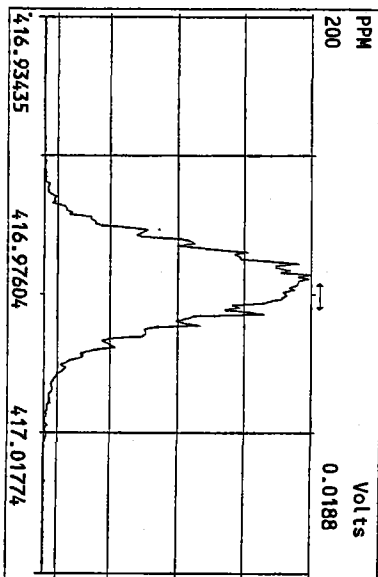
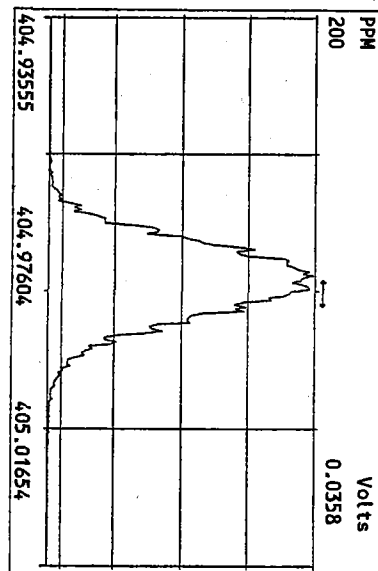


Peak Locate Examination: 19-NOV-2009: 14:42 File: 18NOV09M_RES_CHECK
Experiment: PCDD Function: 2 Reference: PFK

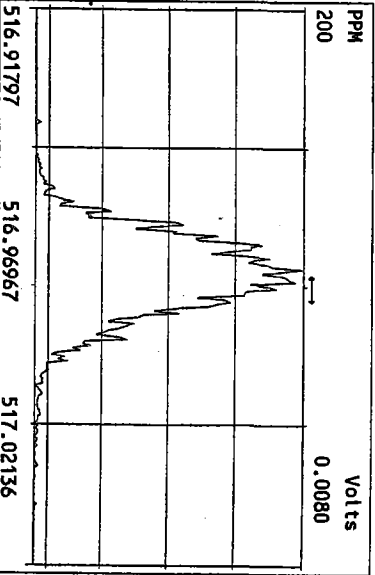
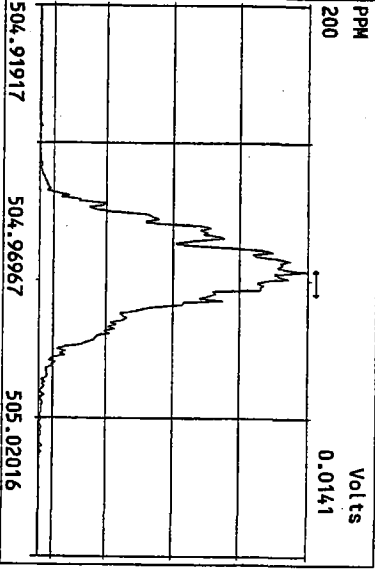
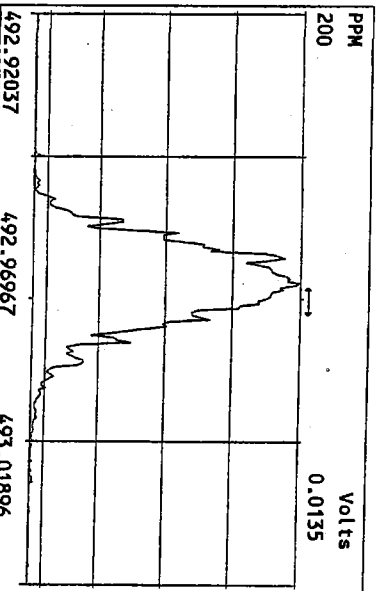
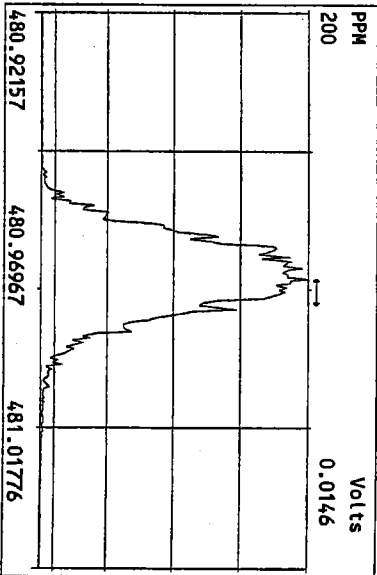
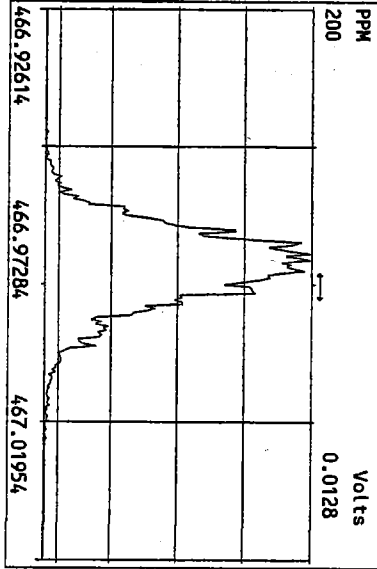
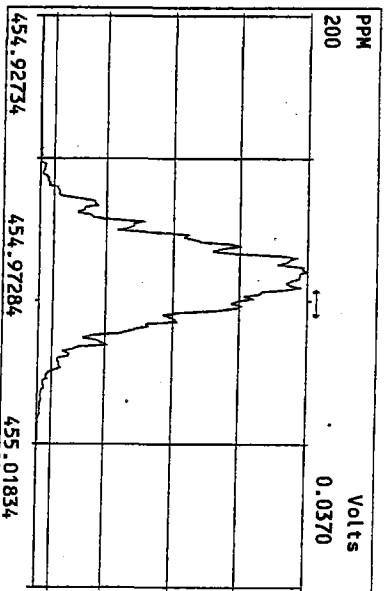
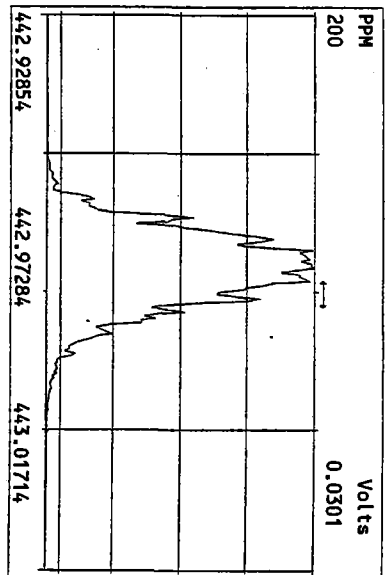
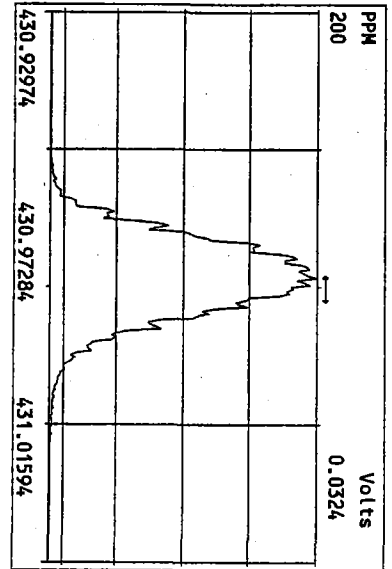




Peak Locate Examination: 19-NOV-2009: 14:43 File: 18NOV09M_RES_CHECK
 Experiment: PCDD Function: 4 Reference: PFK



Peak Locate Examination:19-NOV-2009:14:43 File:18NOV09M_RES_CHECK
Experiment:PCDD Function:5 Reference:PK



Continuing/Ending Calibration Results

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 24MAR10M Sam:1

Analysis Date: 24-MAR-10 09:31:26

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	11.2	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.47	1.32-1.78	y	48.7	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	48.2	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.3	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	47.7	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.92	0.88-1.20	y	49.2	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.90	0.76-1.02	y	96.9	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.66	0.65-0.89	y	10.1	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	50.6	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	48.7	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	50.1	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	50.4	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	50.3	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	50.3	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88-1.20	y	49.2	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	48.8	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.90	0.76-1.02	y	97.0	63.0 - 159 ✓

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

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

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

Analyst: Date: 3/24/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 24MAR10M Sam:1

Analysis Date: 24-MAR-10 09:31:26

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	.0.73	0.65-0.89	y	100	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.52	1.32-1.78	y	91.2	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	103	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.33	1.05-1.43	y	100	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	93.3	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.96	0.76-1.02	y	192	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	101	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	94.6	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	89.6	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.48	0.43-0.59	y	98.0	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.47	0.43-0.59	y	95.8	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.48	0.43-0.59	y	92.5	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.47	0.43-0.59	y	87.5	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.49	0.37-0.51	y	88.5	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.49	0.37-0.51	y	82.7	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	166	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.8	7.80 - 12.8 ✓

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

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

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

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

Analyst: Date: 3/29/10

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 11/18/09
RT Window Data Filename: 24MAR10M Sam:1 Analysis Date: 24-MAR-10 Time: 09:31:26
DB-5 IS Data Filename: 24MAR10M Sam:1 Analysis Date: 24-MAR-10 Time: 09:31:26
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)	24:19 ✓	1,3,6,8-TCDF (F)	22:58 ✓
1,2,8,9-TCDD (L)	28:16 ✓	1,2,8,9-TCDF (L)	28:28 ✓
1,2,4,7,9-PeCDD (F)	30:12 ✓	1,3,4,6,8-PeCDF (F)	28:22 ✓
1,2,3,8,9-PeCDD (L)	33:45 ✓	1,2,3,8,9-PeCDF (L)	34:09 ✓
1,2,4,6,7,9-HxCDD (F)	36:05 ✓	1,2,3,4,6,8-HxCDF (F)	35:12 ✓
1,2,3,7,8,9-HxCDD (L)	39:09 ✓	1,2,3,7,8,9-HxCDF (L)	39:43 ✓
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)	44:08 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:03 ✓

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

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst:

Date: 3/24/10

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 24-MAR-10 09:31:26

CS3 or VER Data Filename: 24MAR10M

Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	RRT
	REFERENCE			QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD		1.001	0.999-1.002 ✓
2,3,7,8-TCDF	13C-2,3,7,8-TCDF		1.001	0.999-1.003 ✓
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD		1.001	0.999-1.002 ✓
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF		1.001	0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF		1.001	0.999-1.002 ✓
LABELED COMPOUNDS				
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD		1.021	0.989-1.052 ✓
13C-2,3,7,8-TCDD			1.021	0.976-1.043 ✓
13C-2,3,7,8-TCDF			0.992	0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD			1.239	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF			1.174	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF			1.223	0.923-1.303 ✓

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

Analyst: JEDate: 3/29/10

USEPA - ITD

FORM 68
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 24-MAR-10 09:31:26

CS3 or VER Data Filename: 24MAR10M

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001 ✓
OCDD	13C-OCDD	1.000	0.999-1.001 ✓
OCDF	13C-OCDF	1.000	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.989	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF		1.080	1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154 ✓
13C-OCDD		1.270	1.032-1.311 ✓
13C-OCDF		1.280	1.000-1.311 ✓

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

Analyst: ADate: 3/24/10

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		113 DL	
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	2.51e+06	0.76 y	27:19	1.02	11.2	2.50	-	-	*	
1,2,3,7,8-PeCDD	1.01e+07	1.47 y	33:10	0.96	48.7	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	9.67e+06	1.25 y	38:32	1.37	48.2	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	9.12e+06	1.28 y	38:41	1.34	50.3	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	9.16e+06	1.26 y	39:09	1.37	47.7	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	6.93e+06	0.92 y	44:08	1.17	49.2	2.50	-	-	*	
OCDD	1.08e+07	0.90 y	49:42	1.21	96.9	2.50	-	-	*	
2,3,7,8-TCDF	4.56e+06	0.66 y	26:34	1.29	10.1	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.48e+07	1.59 y	31:26	0.89	50.6	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.33e+07	1.59 y	32:44	0.91	48.7	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.21e+07	1.23 y	37:09	1.00	50.1	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.28e+07	1.24 y	37:21	0.92	50.4	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.15e+07	1.22 y	38:16	0.99	50.3	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.04e+07	1.25 y	39:43	1.09	50.3	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	9.35e+06	1.05 y	42:15	1.36	49.2	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	7.89e+06	1.04 y	45:03	1.61	48.8	2.50	-	-	*	
OCDF	1.14e+07	0.90 y	50:04	0.84	97.0	2.50	-	-	*	
									Rec	
13C-2,3,7,8-TCDD	2.20e+07	0.73 y	27:18	0.94	100				100	
13C-1,2,3,7,8-PeCDD	2.16e+07	1.52 y	33:08	1.02	91.2				91.2	
13C-1,2,3,4,7,8-HxCDD	1.46e+07	1.30 y	38:31	0.98	103				103	
13C-1,2,3,6,7,8-HxCDD	1.35e+07	1.33 y	38:41	0.94	100				100	
13C-1,2,3,4,6,7,8-HpCDD	1.21e+07	1.05 y	44:08	0.90	93.3				93.3	
13C-OCDD	1.84e+07	0.96 y	49:42	0.67	192				96.0	
13C-2,3,7,8-TCDF	3.51e+07	0.78 y	26:32	0.88	101				101	
13C-1,2,3,7,8-PeCDF	3.29e+07	1.61 y	31:25	0.88	94.6				94.6	
13C-2,3,4,7,8-PeCDF	3.01e+07	1.60 y	32:43	0.85	89.6				89.6	
13C-1,2,3,4,7,8-HxCDF	2.42e+07	0.48 y	37:08	1.72	98.0				98.0	
13C-1,2,3,6,7,8-HxCDF	2.76e+07	0.47 y	37:19	2.00	95.8				95.8	
13C-2,3,4,6,7,8-HxCDF	2.31e+07	0.48 y	38:15	1.74	92.5				92.5	
13C-1,2,3,7,8,9-HxCDF	1.89e+07	0.47 y	39:41	1.51	87.5				87.5	
13C-1,2,3,4,6,7,8-HpCDF	1.40e+07	0.49 y	42:14	1.10	88.5				88.5	
13C-1,2,3,4,7,8,9-HpCDF	1.01e+07	0.49 y	45:02	0.85	82.7				82.7	
13C-OCDF	2.80e+07	0.89 y	50:03	1.17	166				82.9	
37Cl-2,3,7,8-TCDD	2.45e+06		27:19	0.97	10.8				108	
13C-1,2,3,4-TCDD	2.33e+07	0.74 y	26:45	-	89.0					
13C-1,2,3,4-TCDF	3.96e+07	0.79 y	25:28	-	85.6					
13C-1,2,3,7,8,9-HxCDD	1.44e+07	1.32 y	39:07	-	70.1					
Total Tetra-Dioxins	1.35e+07		22:54	1.02	60.3	2.50	-	-	*	22
Total Penta-Dioxins	2.28e+07		30:12	0.96	110	2.50	-	-	*	11
Total Hexa-Dioxins	3.24e+07		36:05	1.36	170	2.50	-	-	*	17
Total Hepta-Dioxins	1.52e+07		42:12	1.17	108	2.50	-	-	*	41
Total Tetra-Furans	1.95e+07		22:58	1.29	43.2	2.50	-	-	*	18
1st Fn. Tot Penta-Furans	1.71e+07		28:22	0.90	60.6	2.50	-	-	*	PeCDF 1
Total Penta-Furans	4.01e+07		30:09	0.90	142	2.50	-	-	*	203 10
Total Hexa-Furans	5.54e+07		35:12	0.99	238	2.50	-	-	*	18
Total Hepta-Furans	1.77e+07		42:15	1.47	101	2.50	-	-	*	22

Analyst: 

Date: 3/29/10

Frontier Analytical Laboratory - Acquisition Log

Run Name: 24MAR10M

Instrument: FAL3

GC: DB5

Experiment: PCDD

Data File S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
24MAR10M 1	ST032410M1	1613 CS3 (090918J)	24-MAR-10 09:31:26	ST032410M1	ST032410M2	TC
24MAR10M 2	1968-001-0001-OPR	OPR	24-MAR-10 10:26:40	ST032410M1	ST032410M2	TC
24MAR10M 3	1968-001-0001-MB	Method Blank	24-MAR-10 11:21:58	ST032410M1	ST032410M2	TC
24MAR10M 4	6028-001-0001-SA	0030508-01	24-MAR-10 12:17:21	ST032410M1	ST032410M2	TC
24MAR10M 5	6023-001-0001-SA	E-001D (Final EFF)	24-MAR-10 13:12:43	ST032410M1	ST032410M2	TC
24MAR10M 6	6005-001-0001-SA	CB31A022410Comp	24-MAR-10 14:08:02	ST032410M1	ST032410M2	TC
24MAR10M 7	6005-002-0001-SA	CB4857022410Comp	24-MAR-10 15:03:20	ST032410M1	ST032410M2	TC
24MAR10M 8	6005-003-0001-SA	CB1022410Comp	24-MAR-10 15:58:43	ST032410M1	ST032410M2	TC
24MAR10M 9	6005-004-0001-SA	CB100022410Comp	24-MAR-10 16:54:10	ST032410M1	ST032410M2	TC
24MAR10M 10	6043-001-0001-SA	RRSW	24-MAR-10 17:49:37	ST032410M1	ST032410M2	TC
24MAR10M 11	SB032410M1	Solvent Blank	24-MAR-10 18:45:00	ST032410M1	ST032410M2	TC
24MAR10M 12	ST032410M2	1613 CS3 (090918J)	24-MAR-10 19:40:23	ST032410M1	ST032410M2	TC
24MAR10M 13	1969-001-0001-OPR	OPR	24-MAR-10 20:35:49	ST032410M2	ST032410M3	TC
24MAR10M 14	1969-001-0001-MB	Method Blank	24-MAR-10 21:31:15	ST032410M2	ST032410M3	TC
24MAR10M 15	6035-001-0001-SA	RM-51172 LOT-818833	24-MAR-10 22:26:38	ST032410M2	ST032410M3	TC
24MAR10M 16	6038-001-0001-SA	RM #51173 #816790	24-MAR-10 23:22:03	ST032410M2	ST032410M3	TC
24MAR10M 17	6038-002-0001-SA	RM #51173 #818787	25-MAR-10 00:17:26	ST032410M2	ST032410M3	TC
24MAR10M 18	6038-003-0001-SA	RM #51173 #818715	25-MAR-10 01:12:49	ST032410M2	ST032410M3	TC
24MAR10M 19	6038-004-0001-SA	RM #51173 #817599	25-MAR-10 02:08:12	ST032410M2	ST032410M3	TC
24MAR10M 20	6048-001-0001-SA	D/F Fortified Cod Liver	25-MAR-10 03:03:34	ST032410M2	ST032410M3	TC
24MAR10M 21	SB032410M2	Solvent Blank	25-MAR-10 03:58:56	ST032410M2	ST032410M3	TC
24MAR10M 22	SB032410M3	Solvent Blank	25-MAR-10 04:54:19	ST032410M2	ST032410M3	TC
24MAR10M 23	SB032410M4	Solvent Blank	25-MAR-10 05:49:42	ST032410M2	ST032410M3	TC
24MAR10M 24	ST032410M3	1613 CS3 (090918J)	25-MAR-10 06:45:00	ST032410M2	ST032410M3	TC

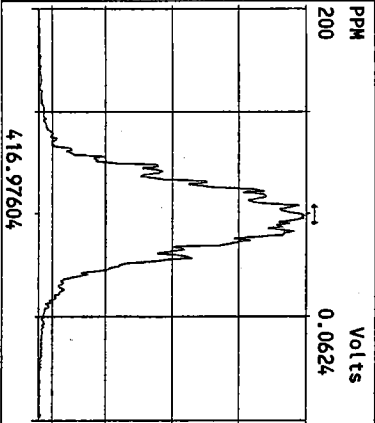
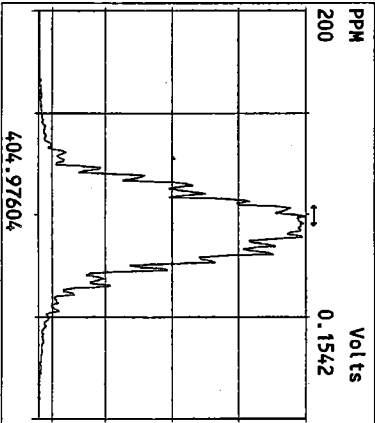
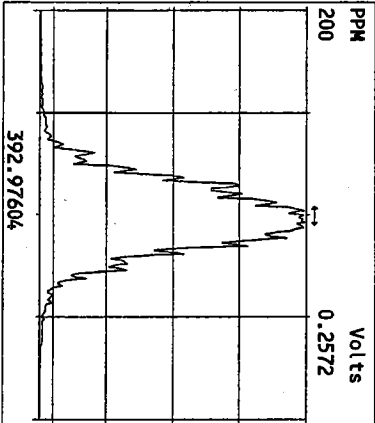
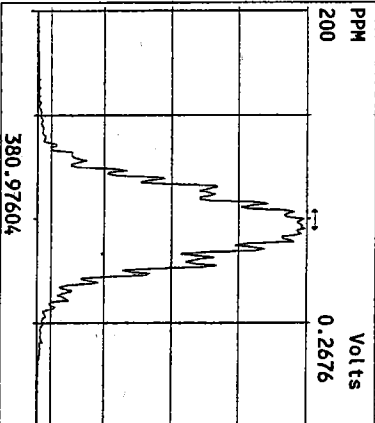
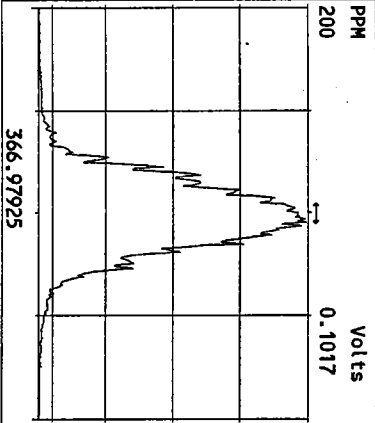
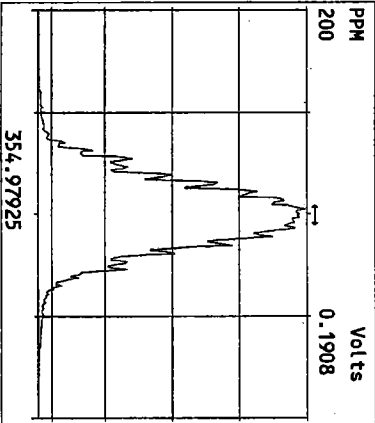
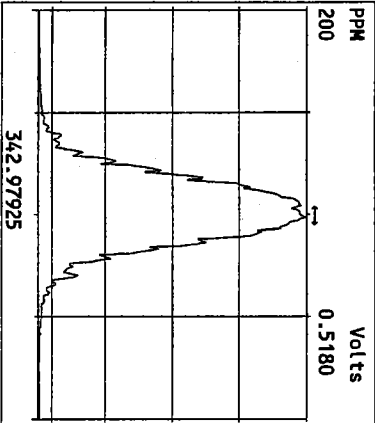
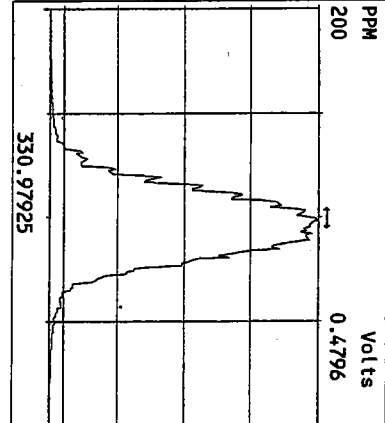
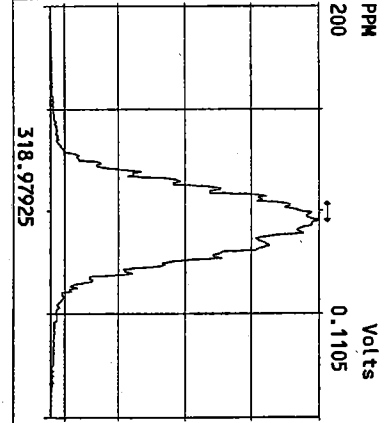
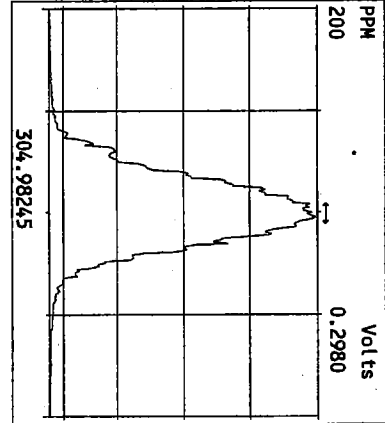
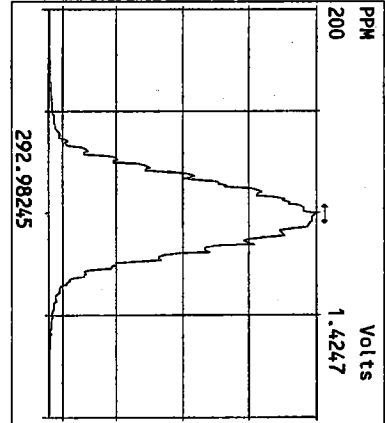
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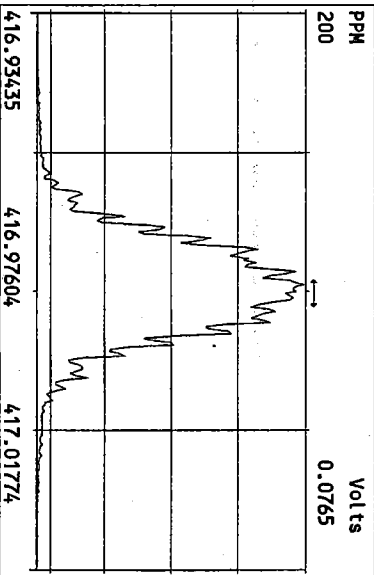
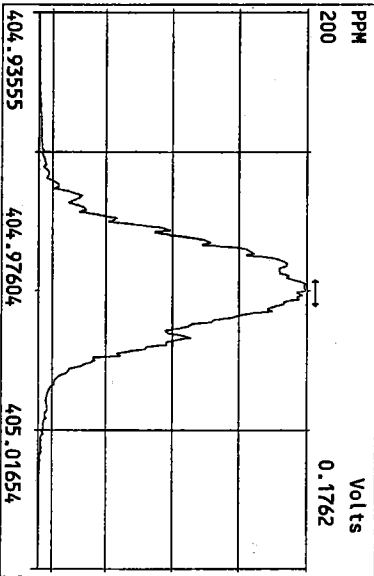
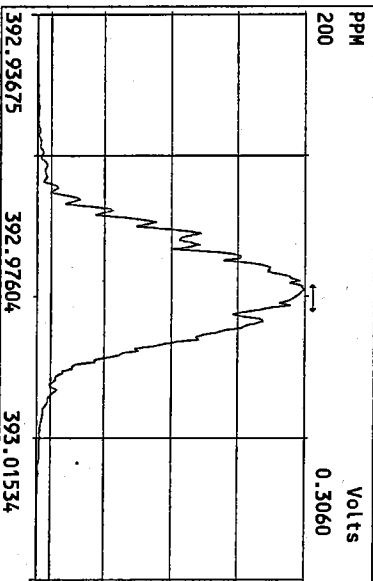
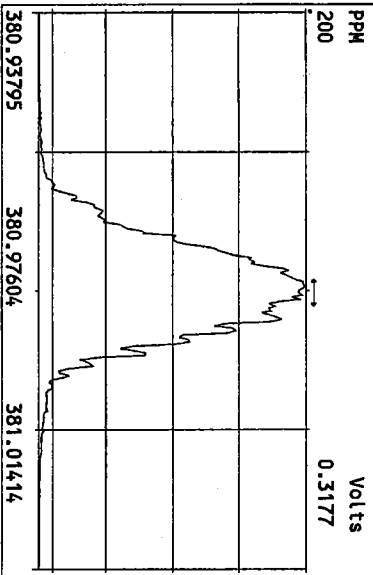
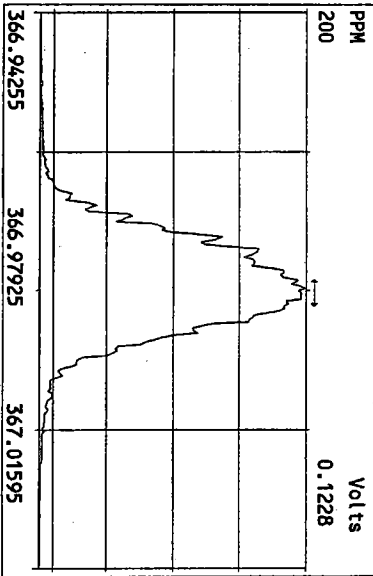
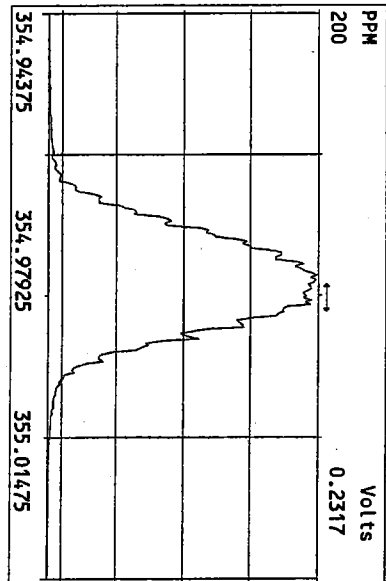
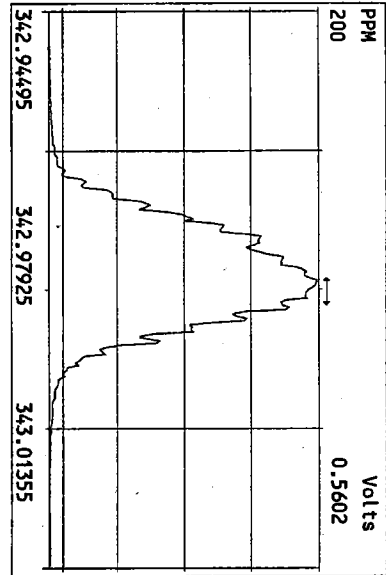
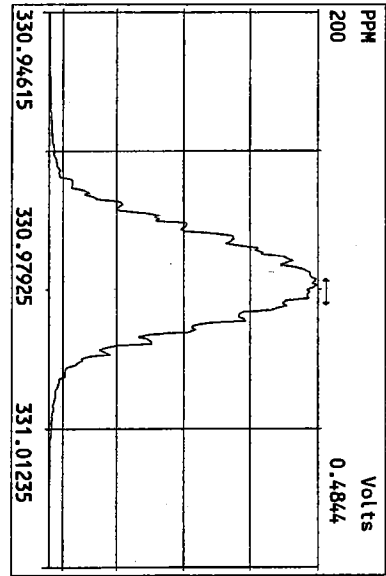
3/25/10

Data Backed Up: _____

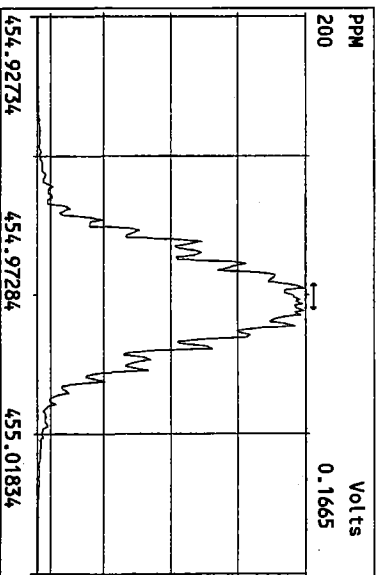
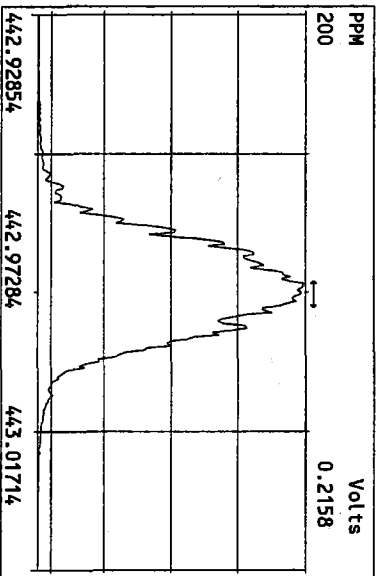
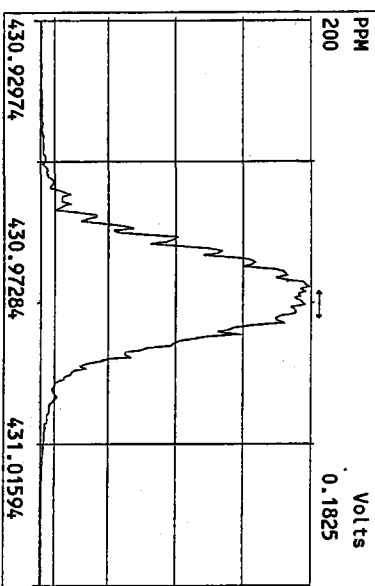
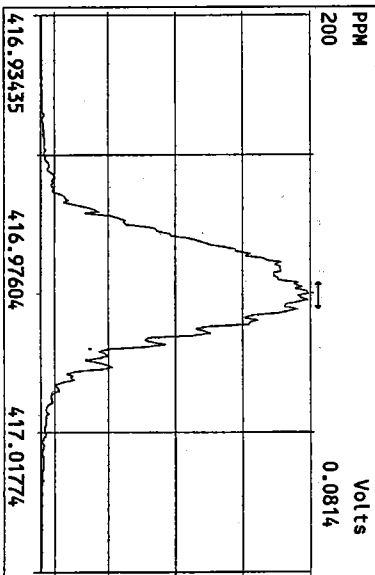
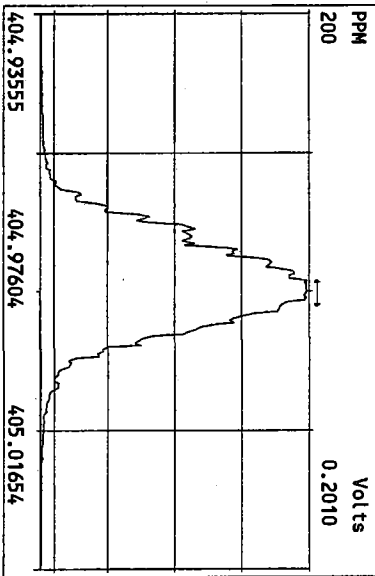
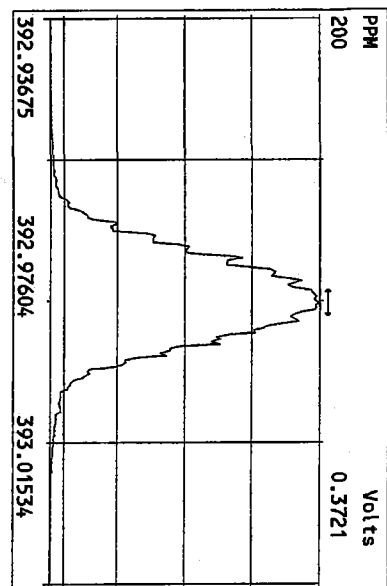
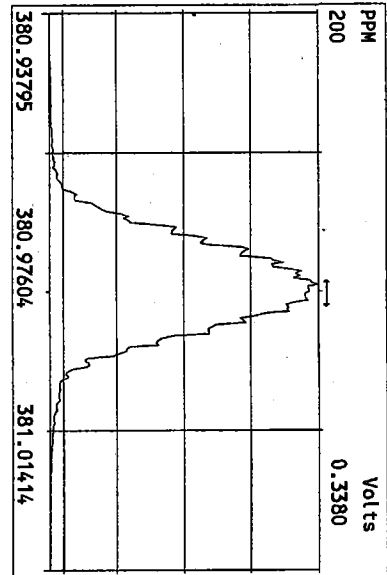
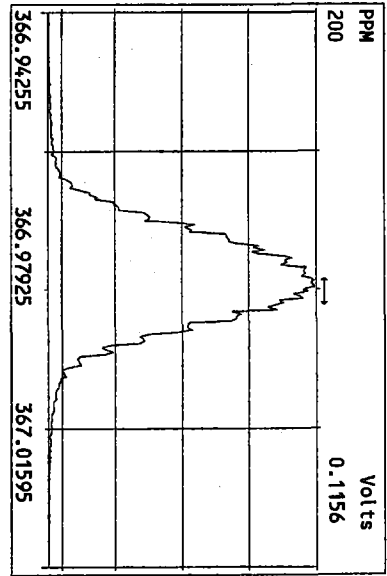
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Peak Locate Examination:24-MAR-2010:09:29 File:24MAR10M
Experiment:PCDD Functions:1 Reference:PFK

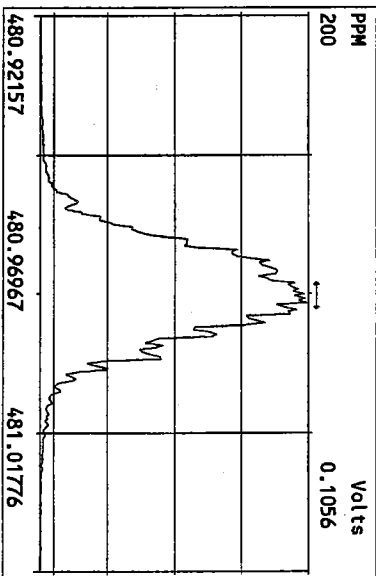
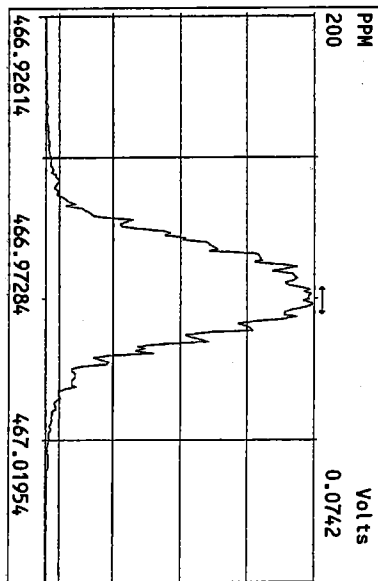
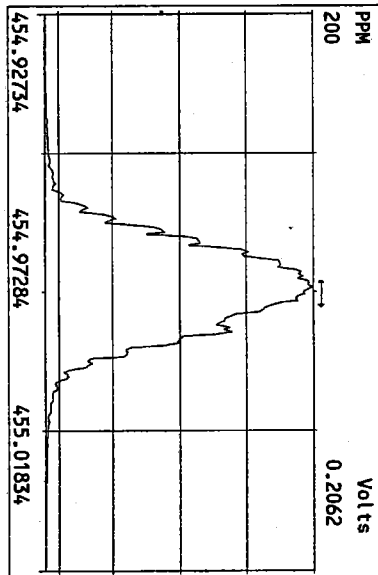
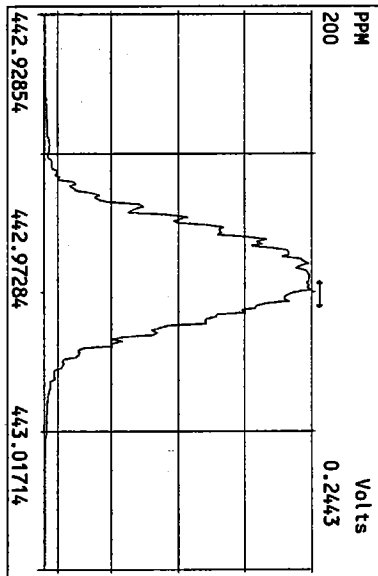
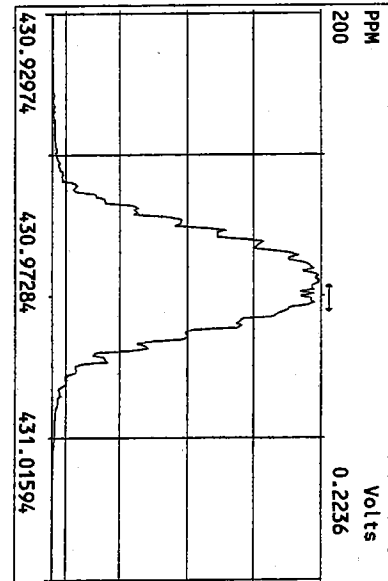
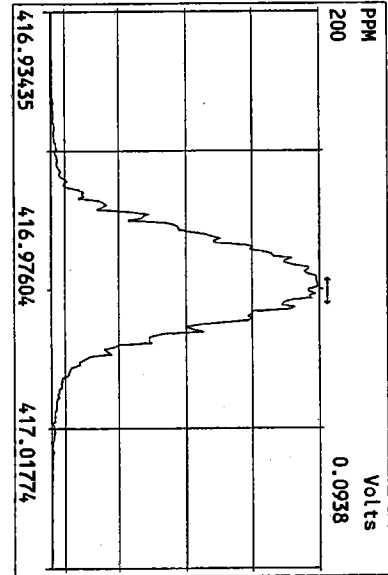
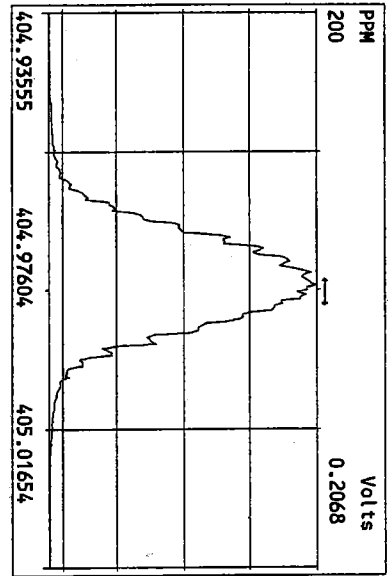


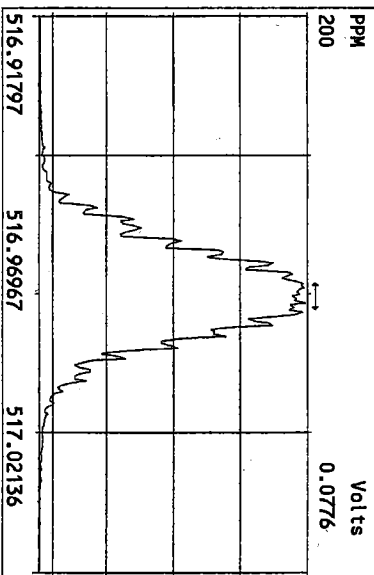
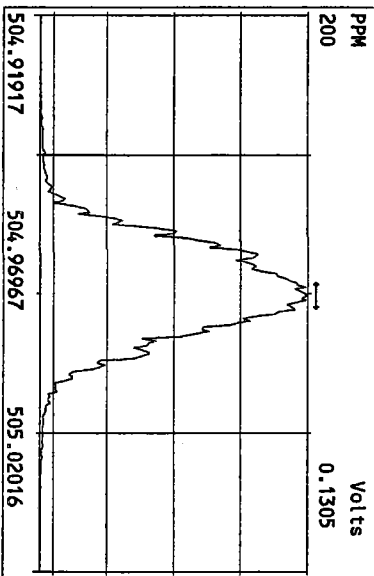
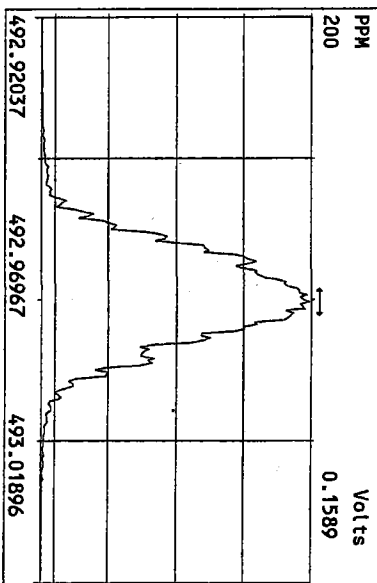
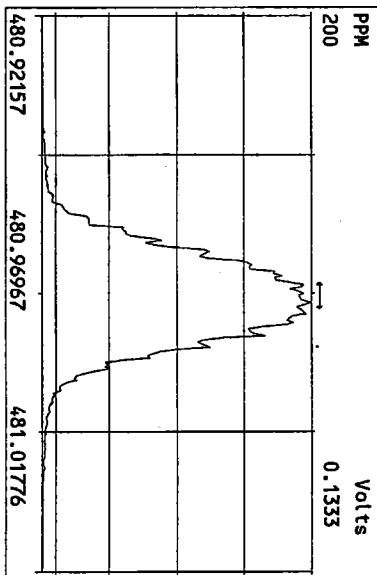
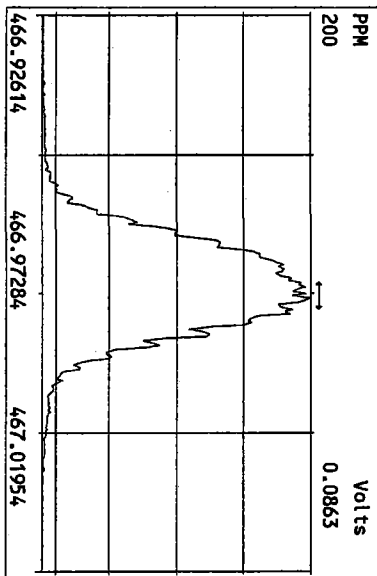
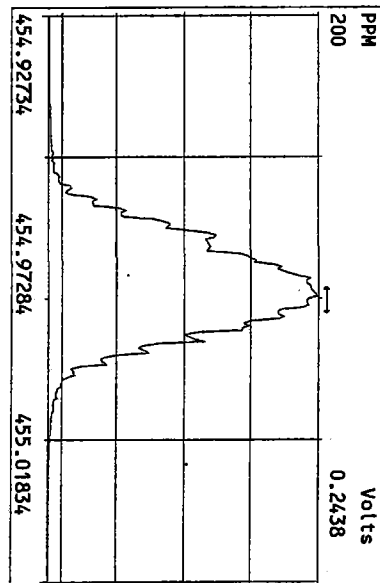
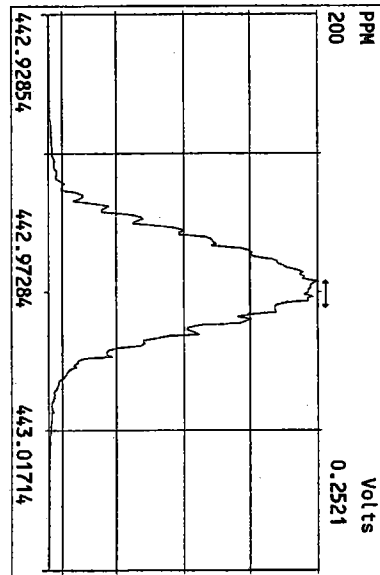
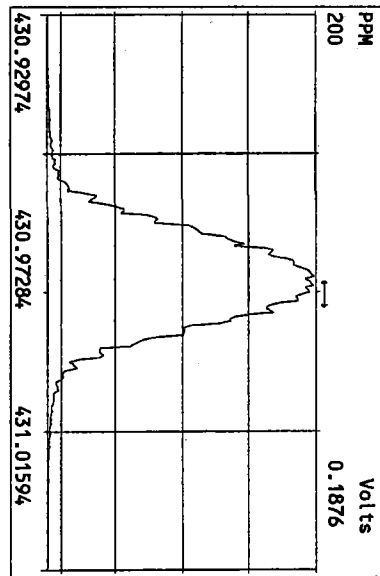


Peak Locate Examination:24-MAR-2010:09:30 File:24MAR10M
Experiment:PCDD Function:3 Reference:PFK

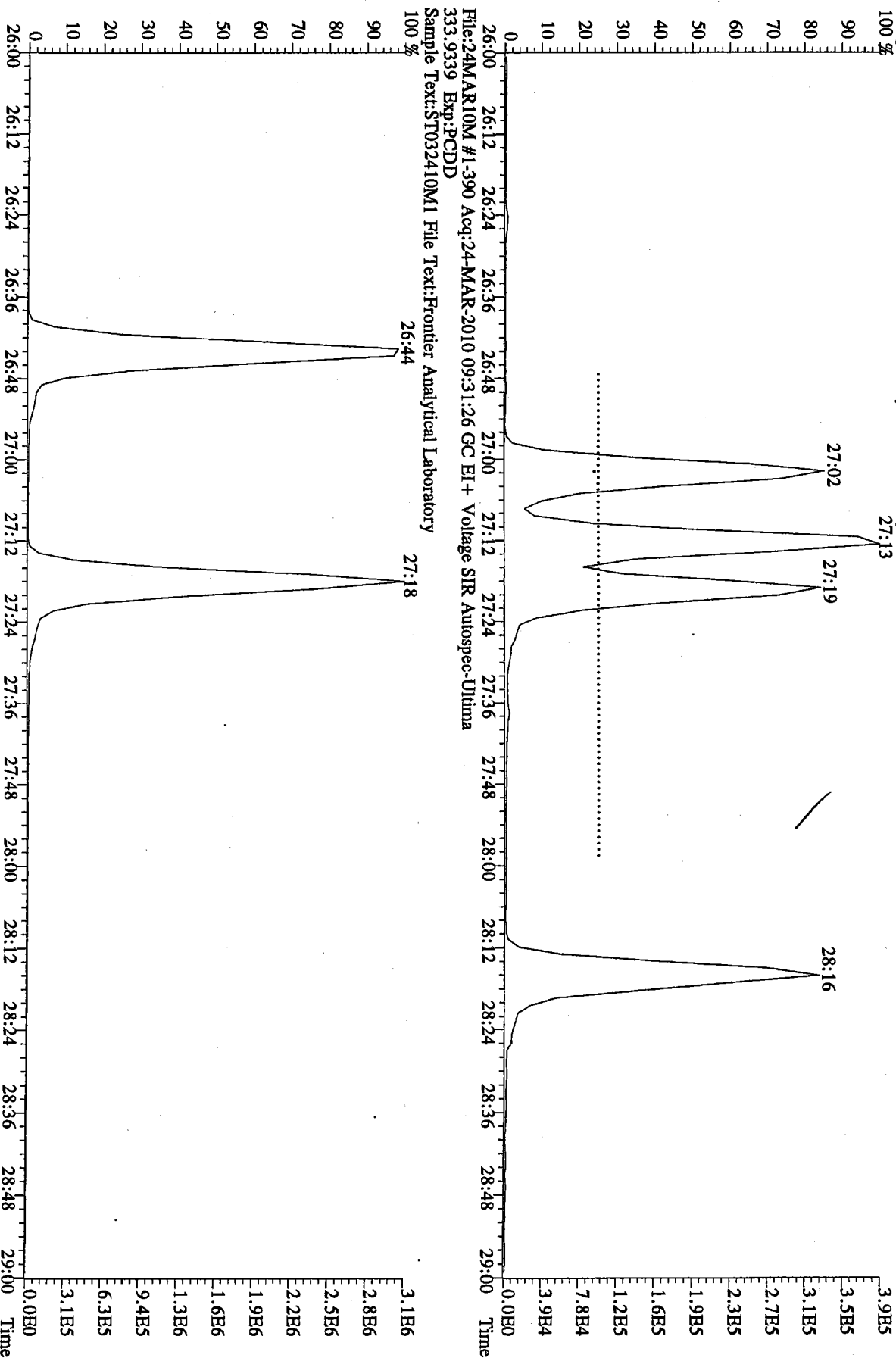


Peak Locate Examination:24-MAR-2010:09:30 File:24MAR10M
 Experiment:PCDD Function:4 Reference:PFK

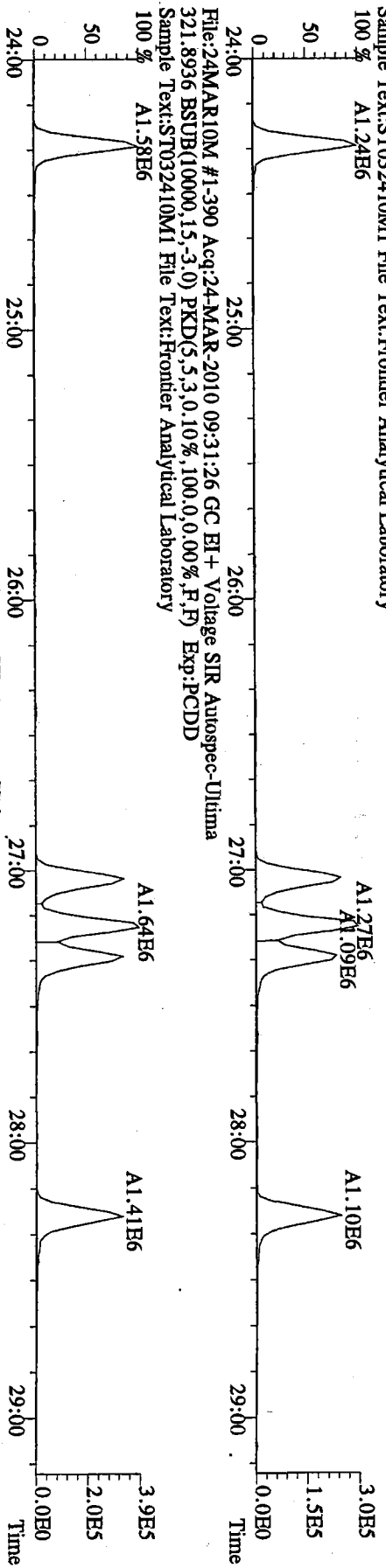




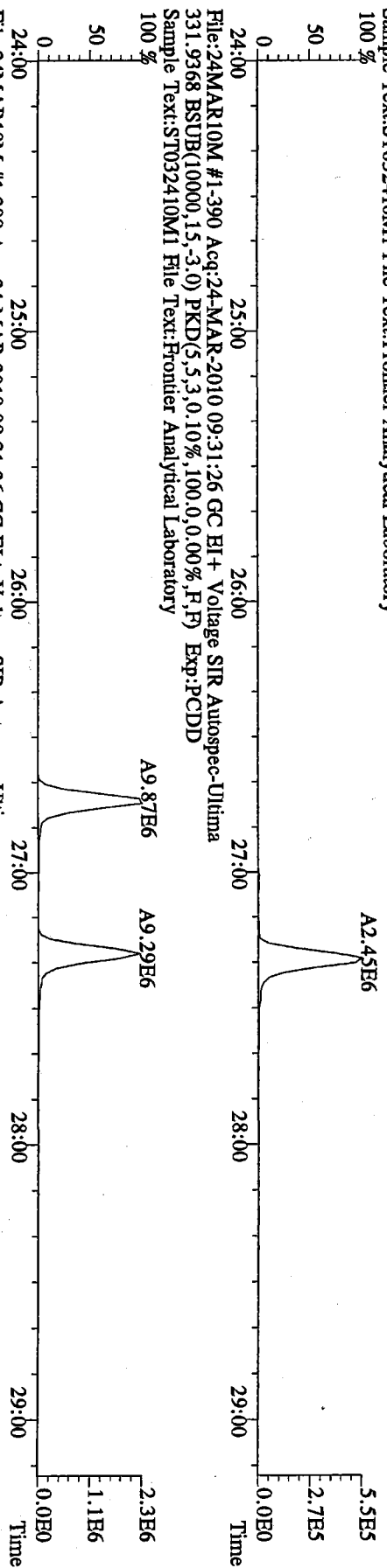
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 321.8936 Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



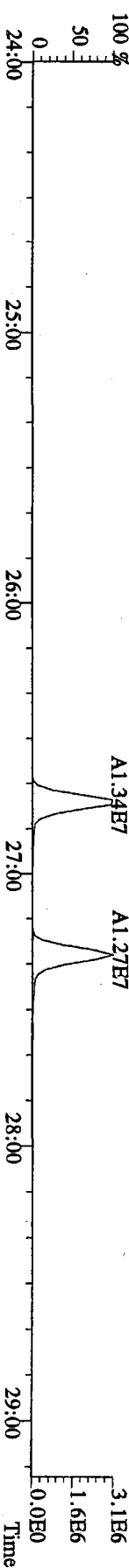
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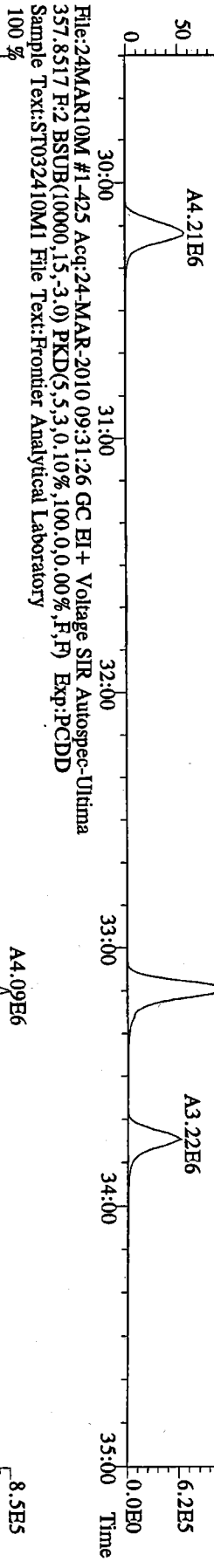
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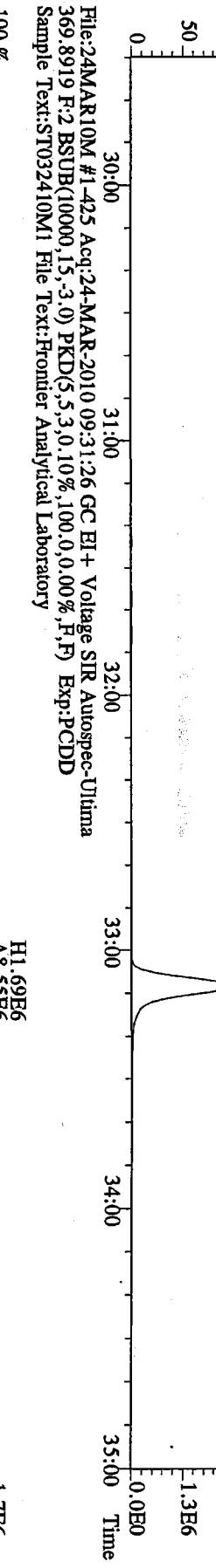
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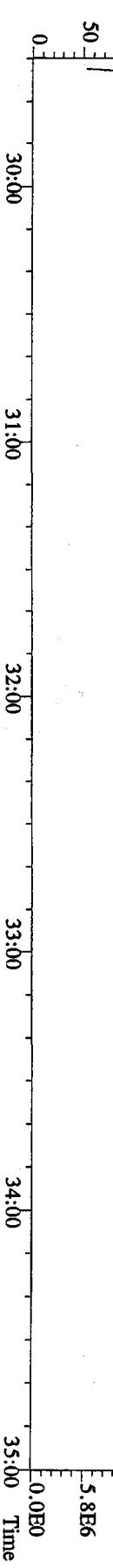
File:24MAR10M1 #1-425 Acq:24-MAR-2010 09:31:26 GC EI+ Voltage SIR Autospec-Utima
 355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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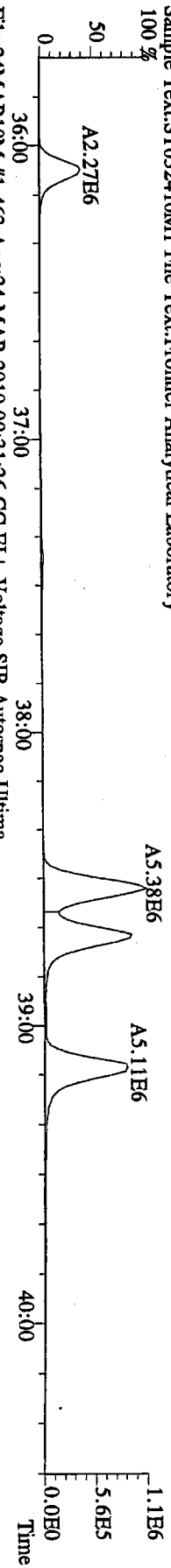
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 367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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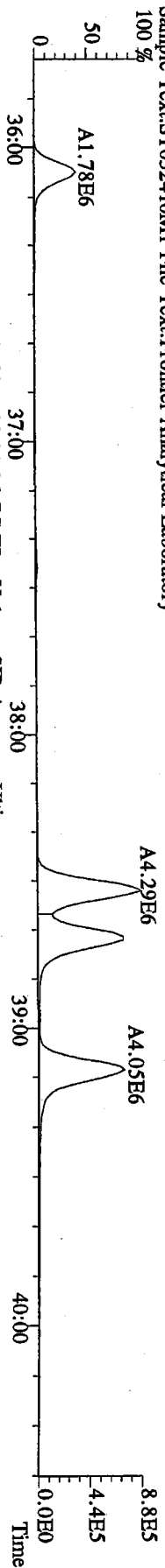
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 366.9792 F:2 Exp:PCDD
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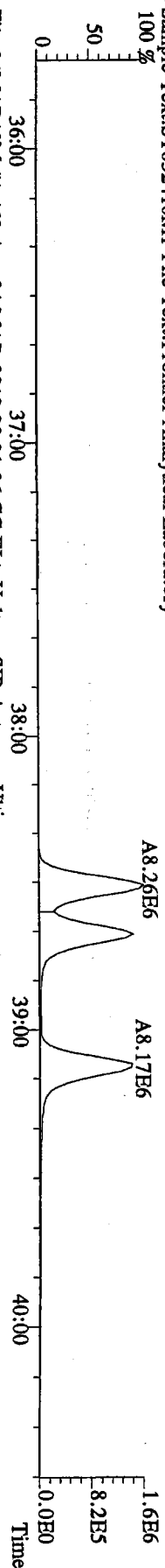
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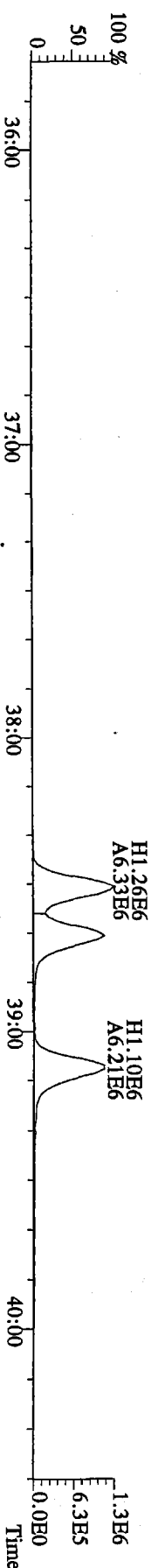
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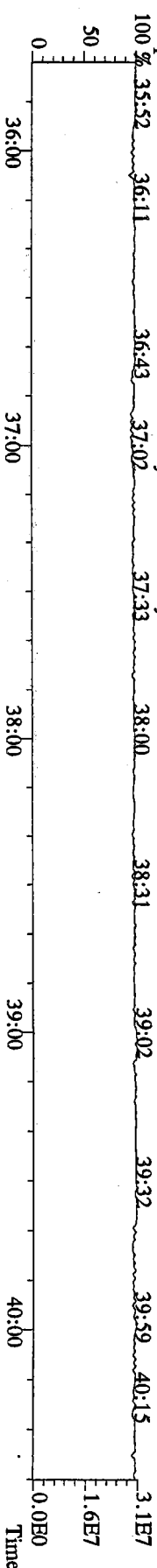
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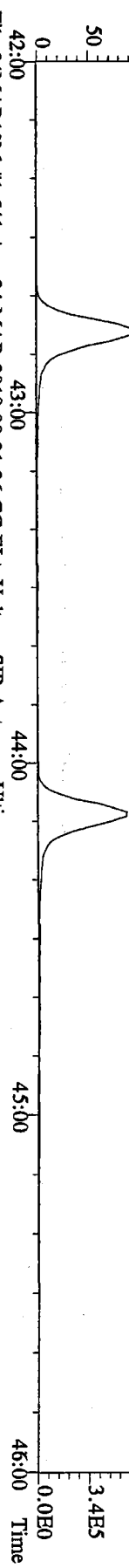
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 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



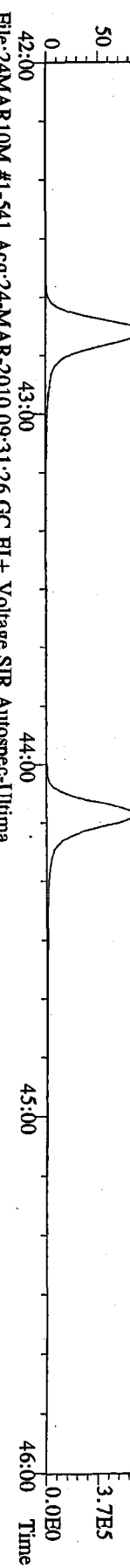
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 380.9760 F:3 Exp:PCDD
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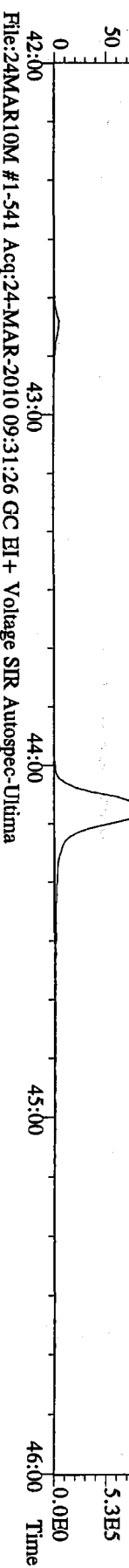
File:24MARIOM #1-541 Acq:24-MAR-2010 09:31:26 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
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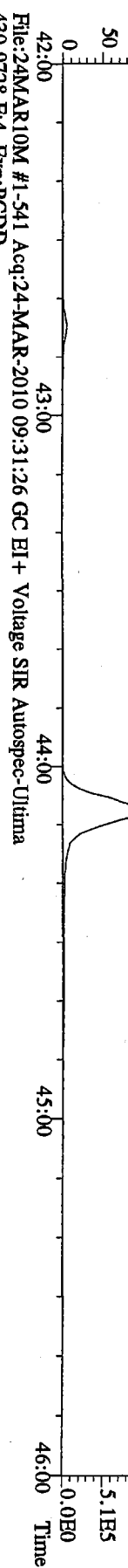
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425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



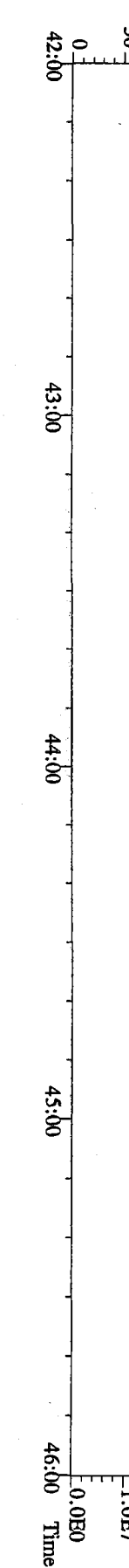
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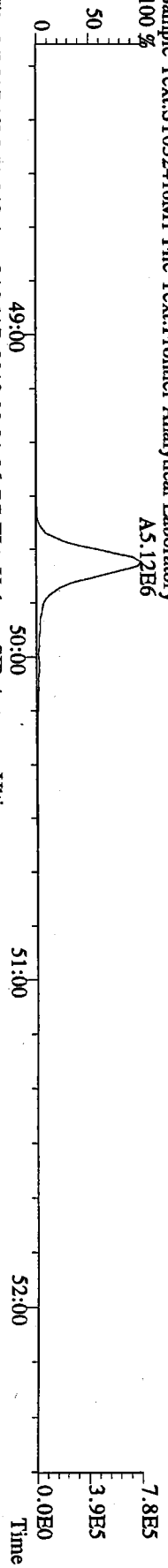
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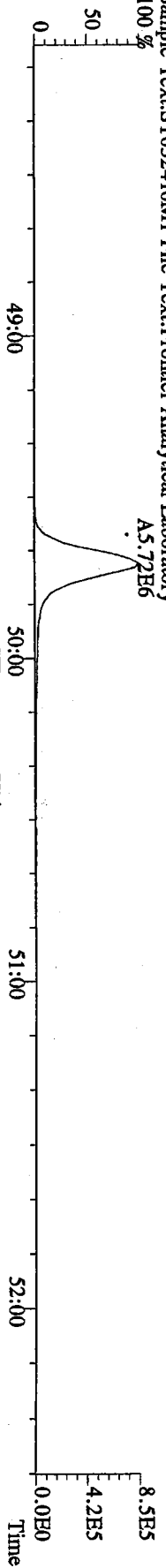
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430.9728 F:4 Exp:PCDD
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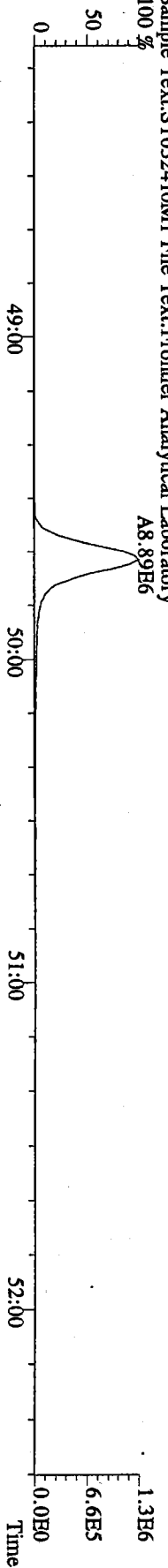
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 457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0) Exp:PCDD
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 100 %



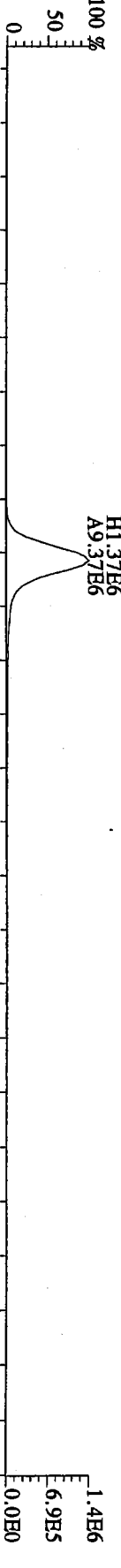
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 459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0) Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory
 100 %



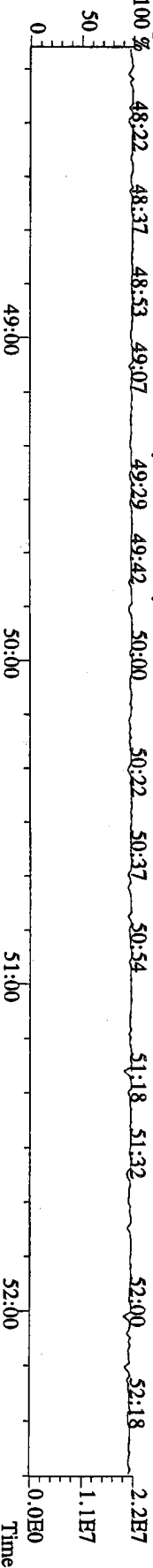
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 469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0) Exp:PCDD
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 100 %



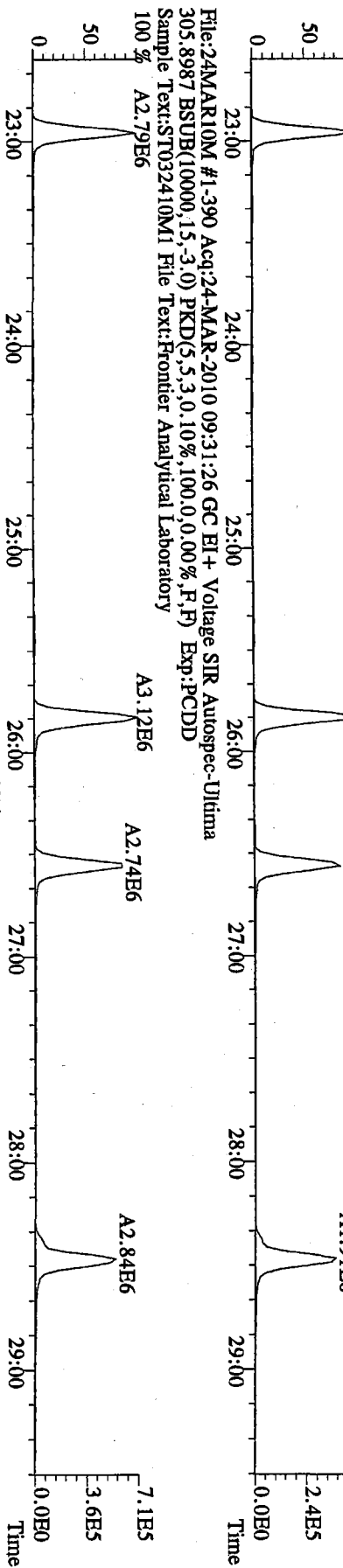
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 471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0) Exp:PCDD
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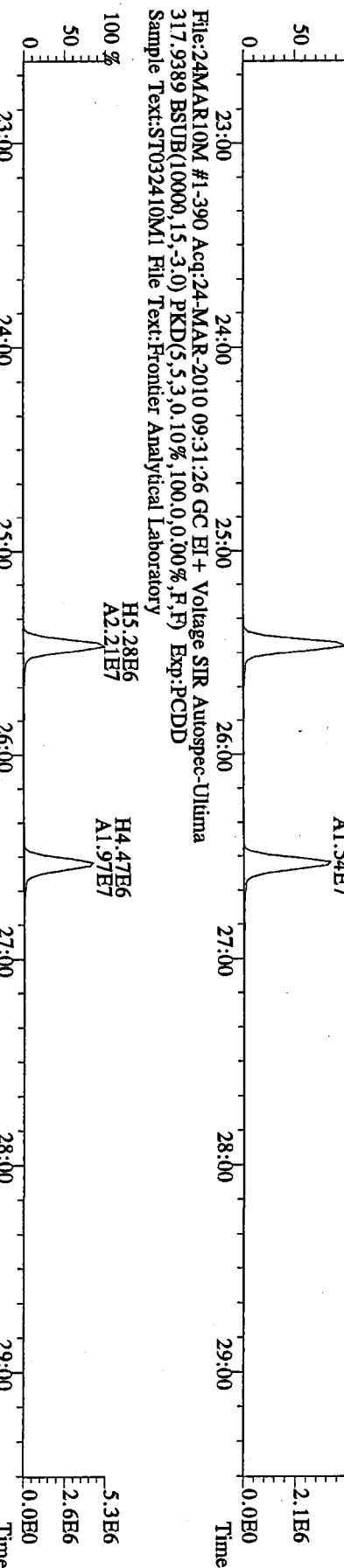
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 454.9728 F:5 Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



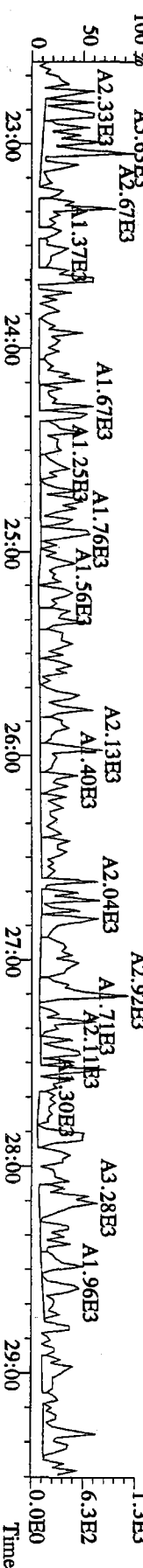
File:24MAR10M #1-390 Acq:24-MAR-2010 09:31:26 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory
 100 % A1.88E6



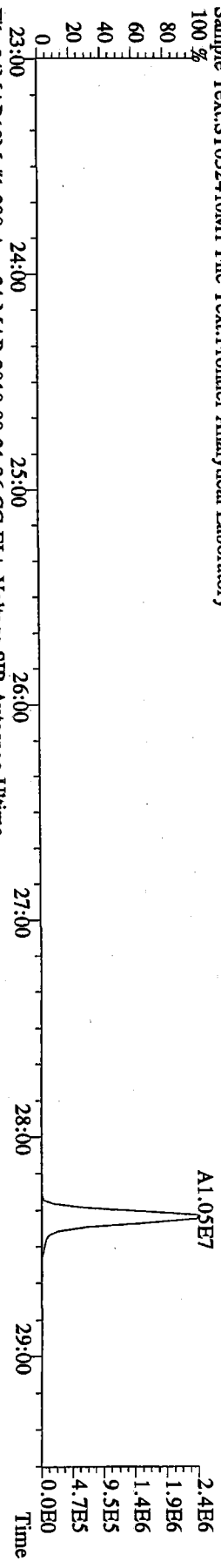
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 100 % A1.75E7



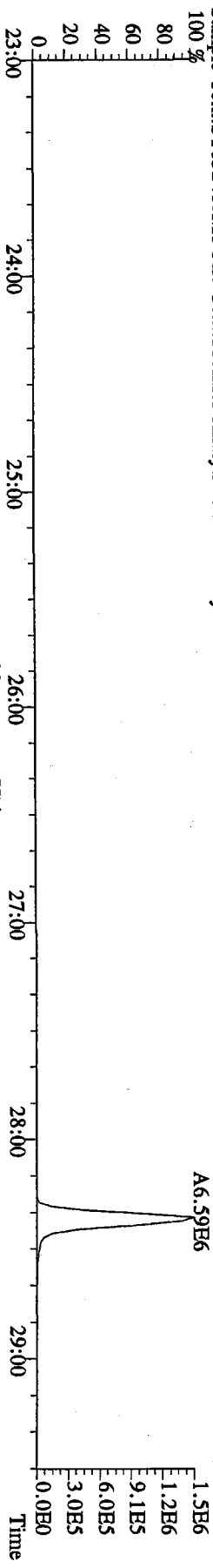
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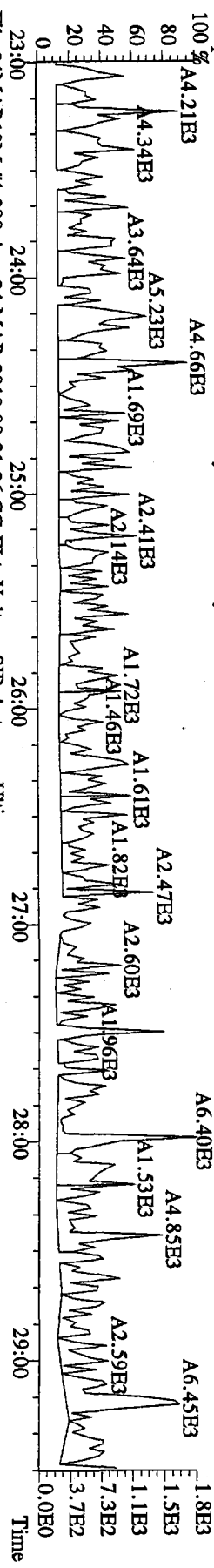
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 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



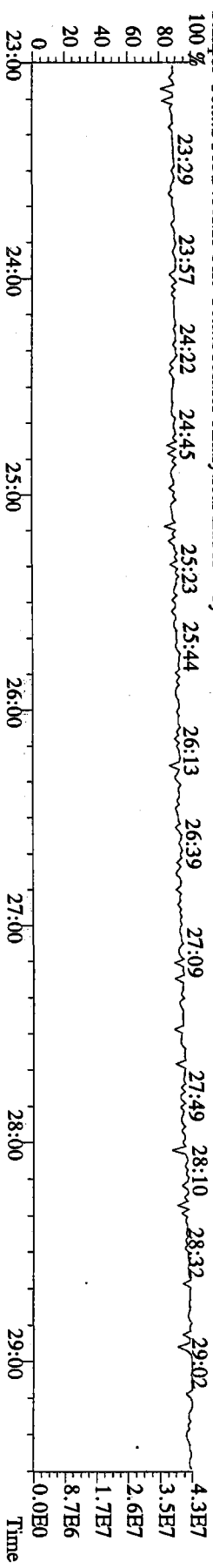
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 341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



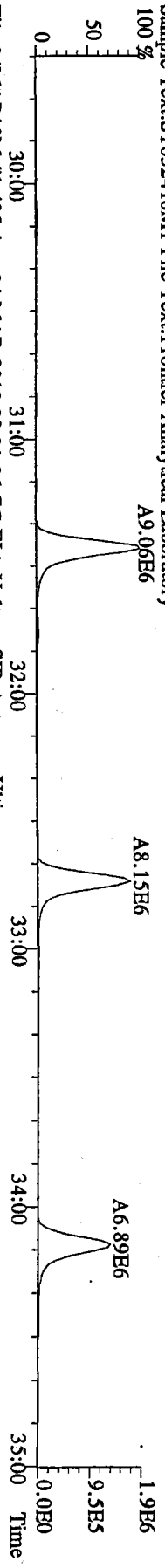
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 409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



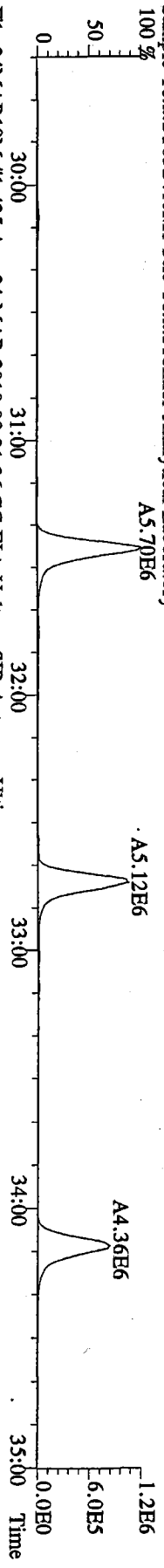
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 330.9792 Exp:PCDD
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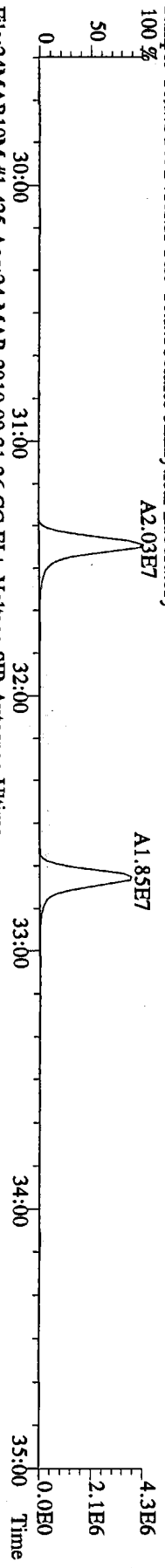
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 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



File:24MAR10M #1-425 Acq:24-MAR-2010 09:31:26 GC EI+ Voltage SIR Autospec-Utima
 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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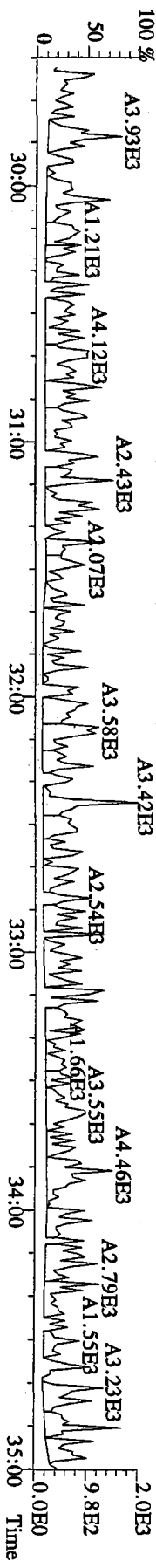
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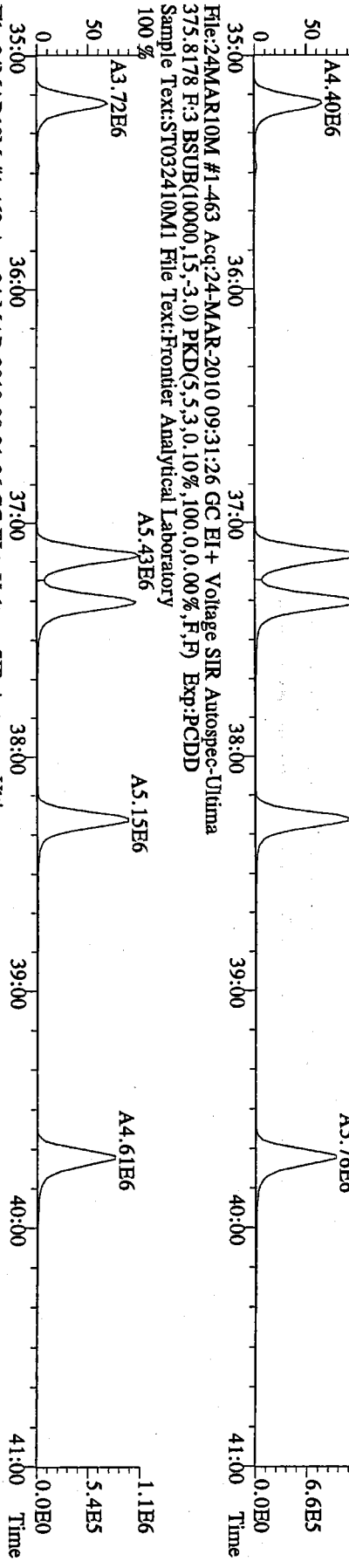
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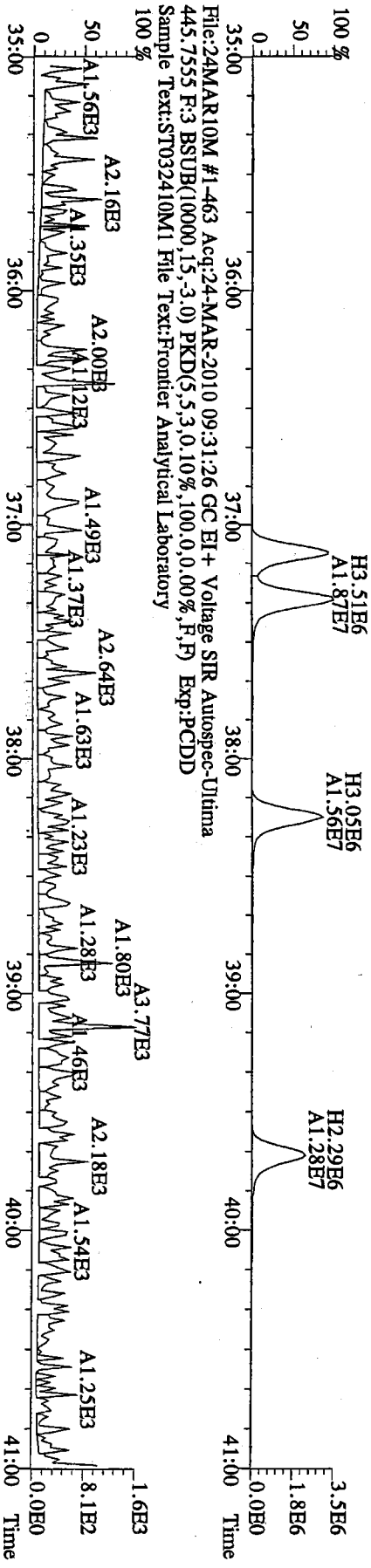
File:24MAR10M #1-425 Acq:24-MAR-2010 09:31:26 GC EI+ Voltage SIR Autospec-Utima
 409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



File:24MAR10M #1-463 Acq:24-MAR-2010 09:31:26 GC EI+ Voltage SIR Autospec-Utima
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory

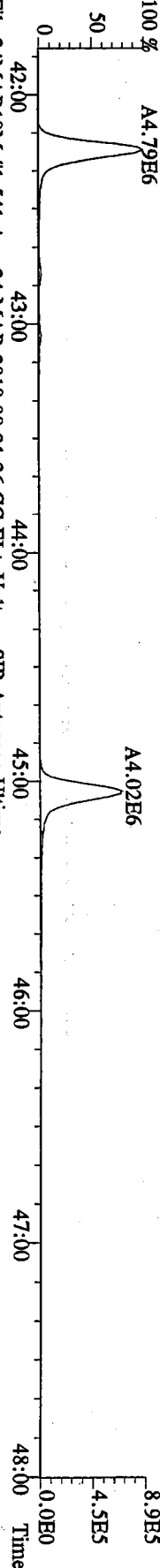


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383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
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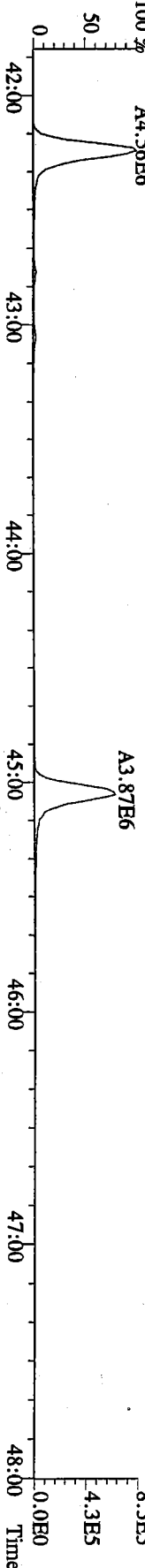


File:24MAR10M #1-463 Acq:24-MAR-2010 09:31:26 GC EI+ Voltage SIR Autospec-Utima
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory

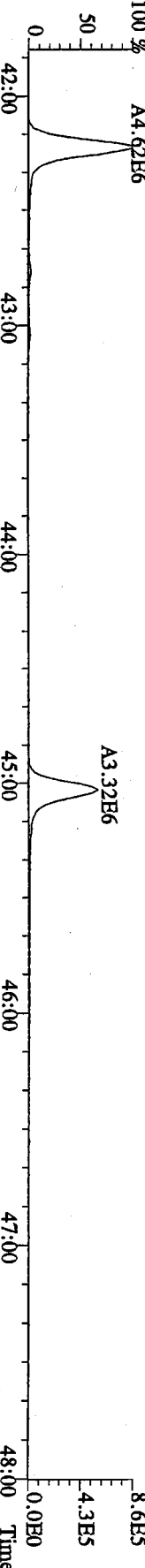
File:24MARI0M #1-541 Acq:24-MAR-2010 09:31:26 GC BI + Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
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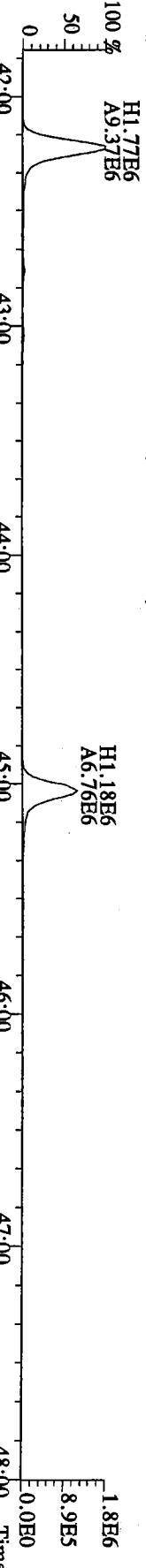
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Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



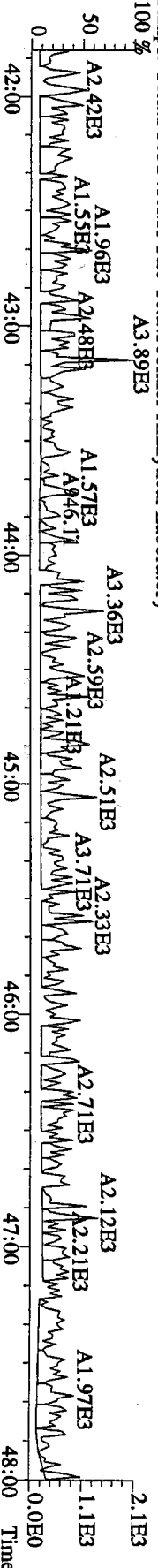
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417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



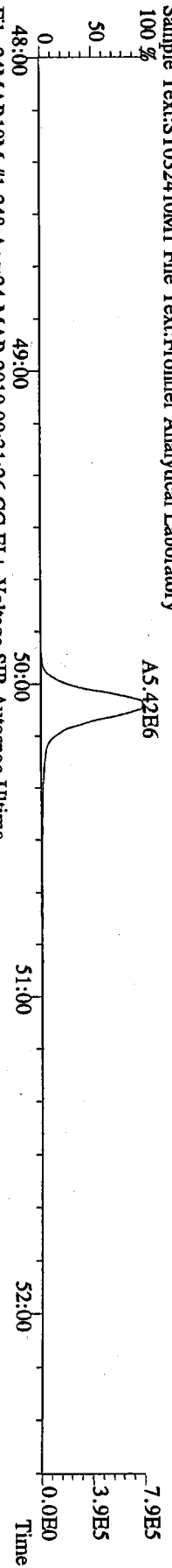
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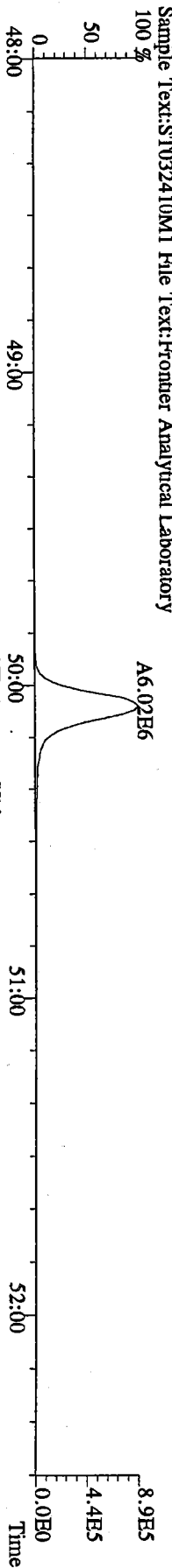
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479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



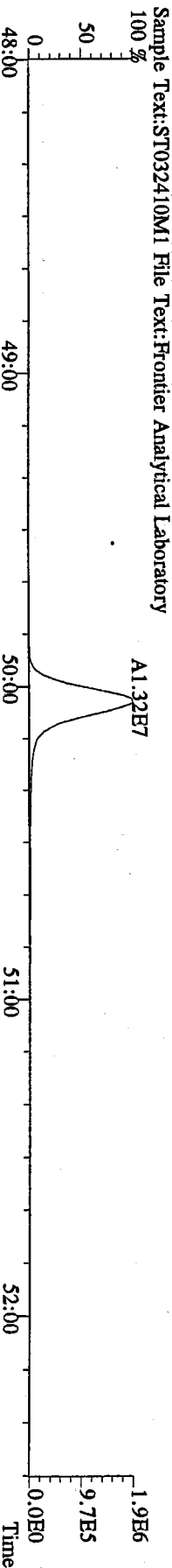
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441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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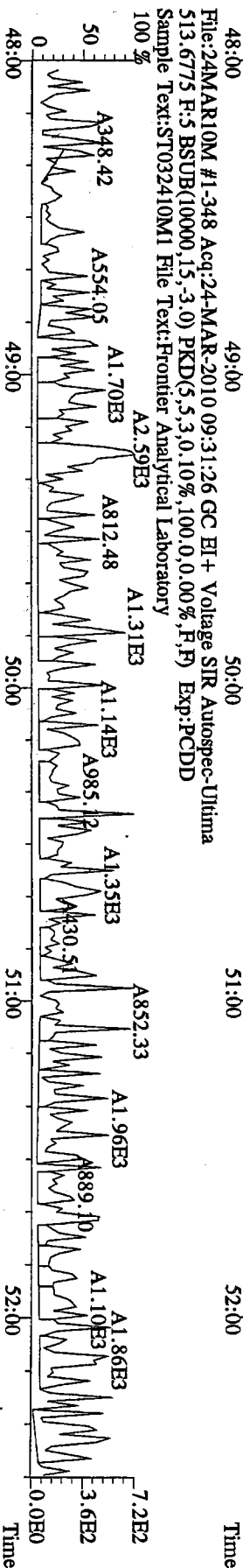
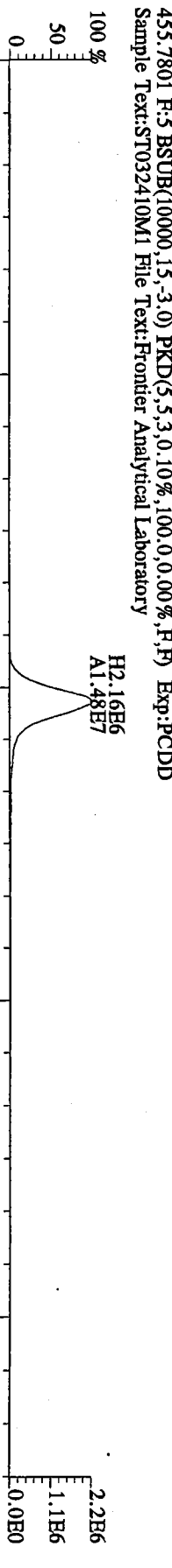
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443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



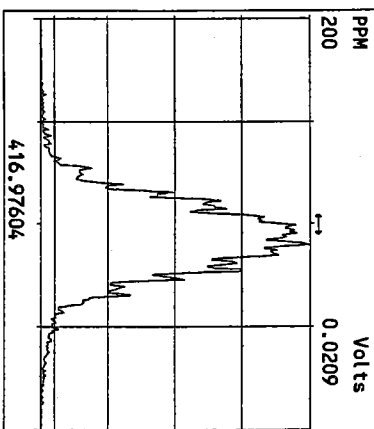
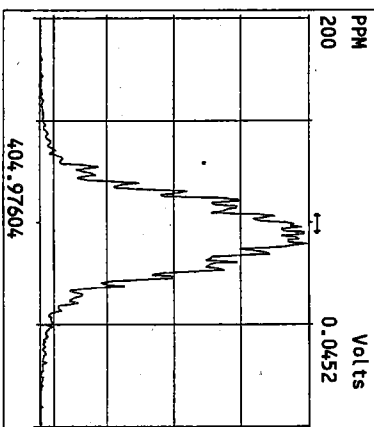
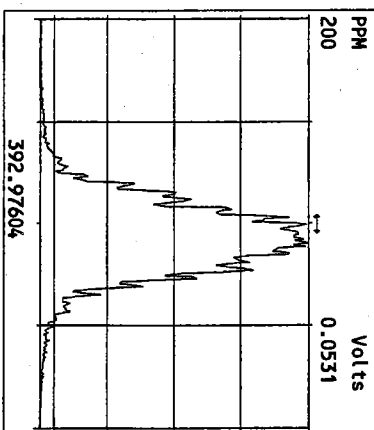
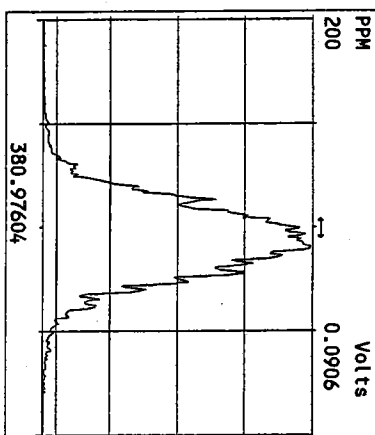
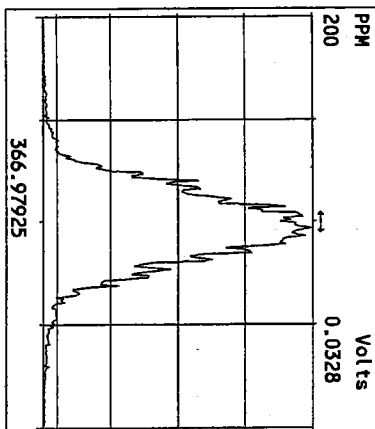
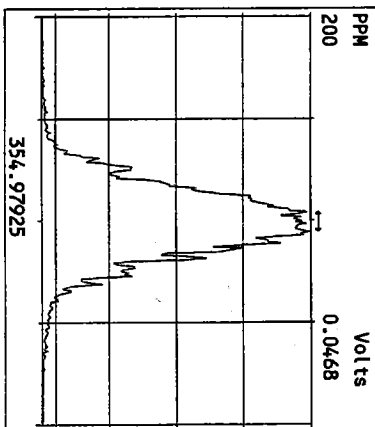
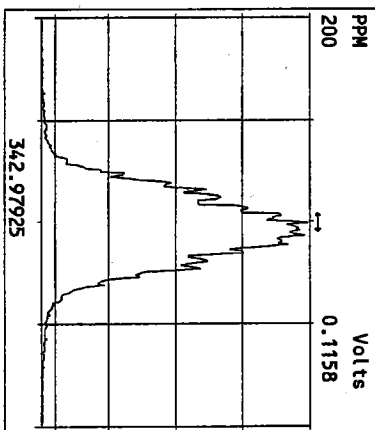
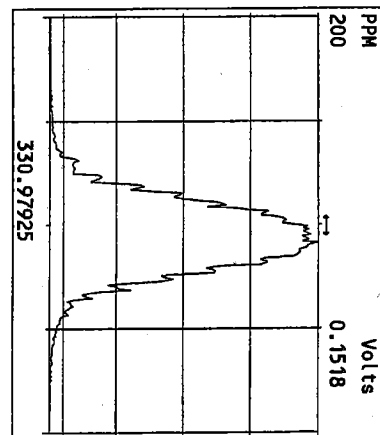
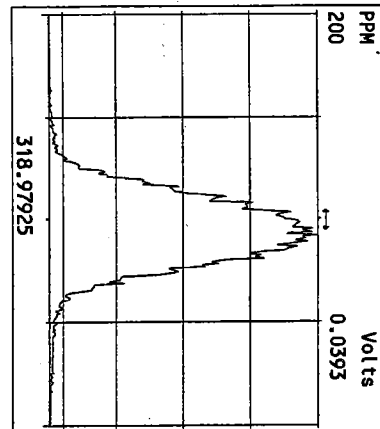
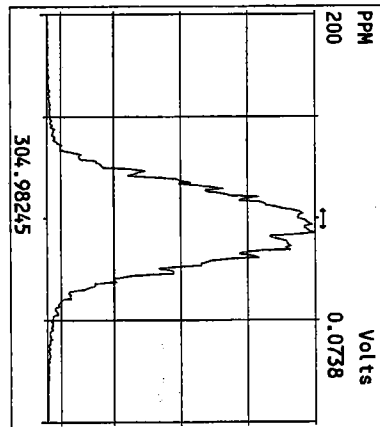
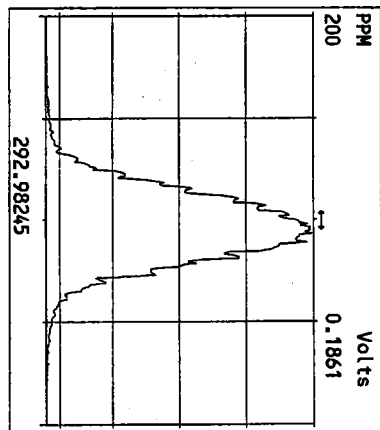
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453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory

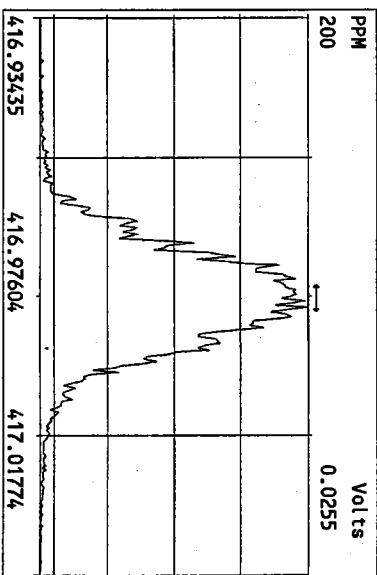
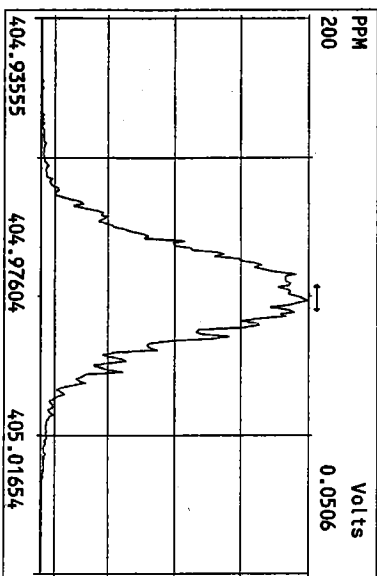
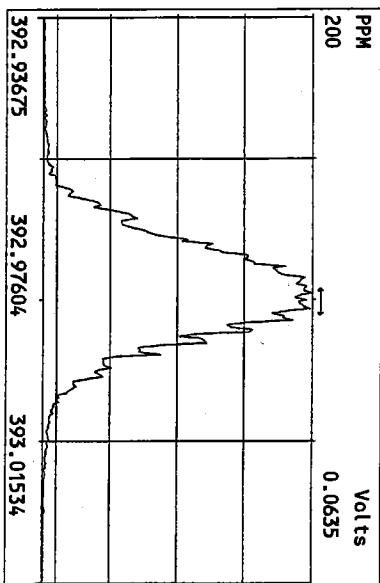
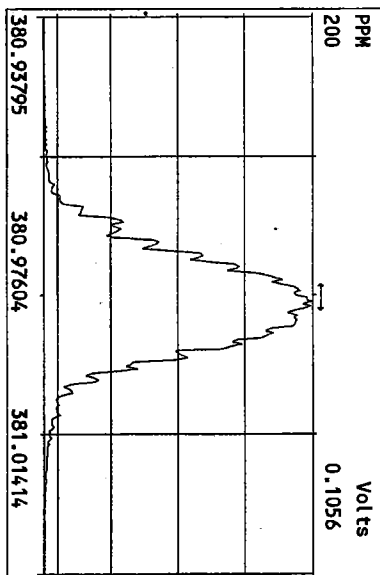
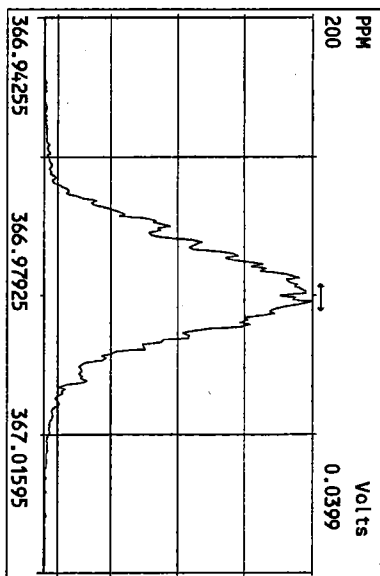
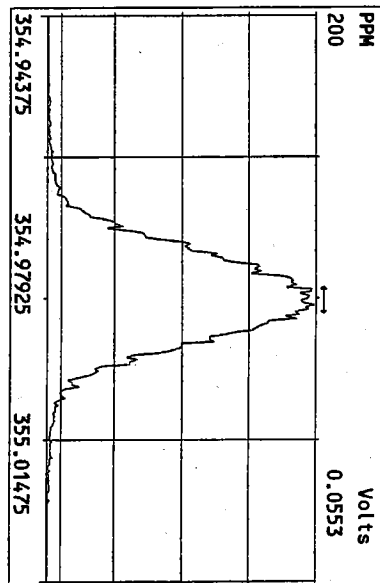
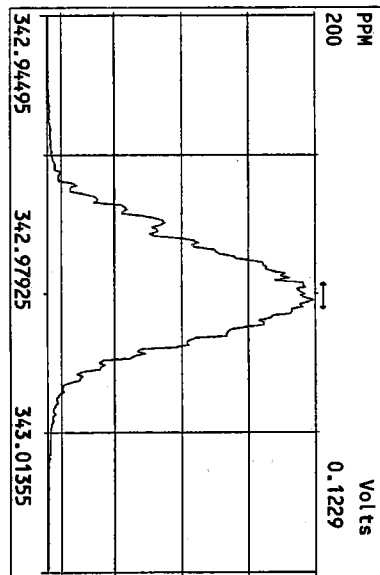
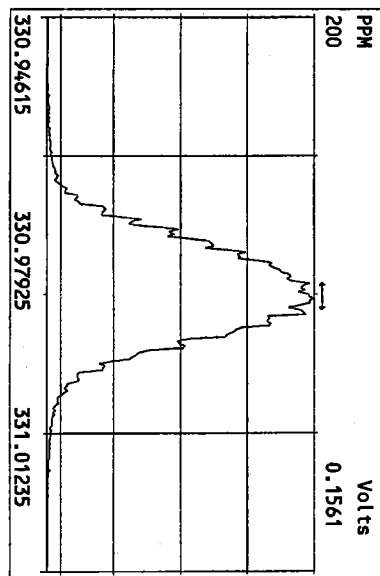


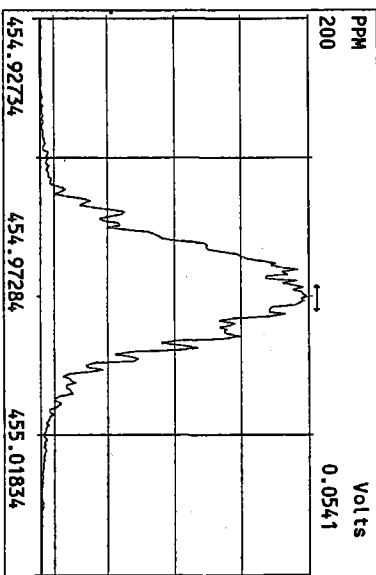
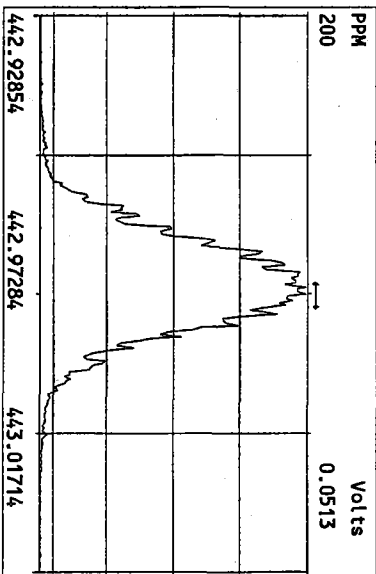
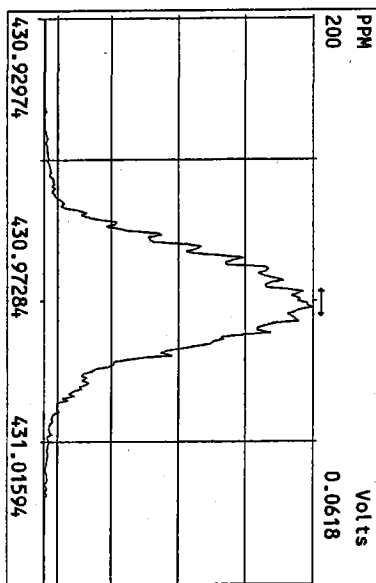
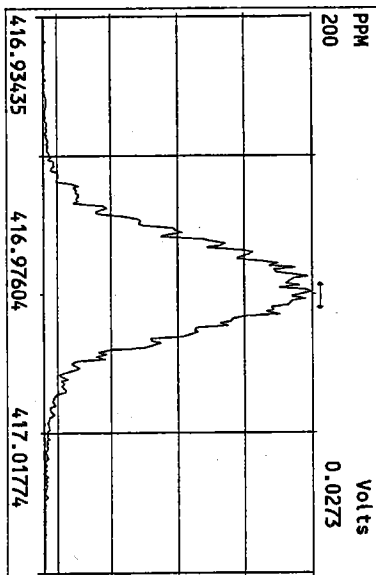
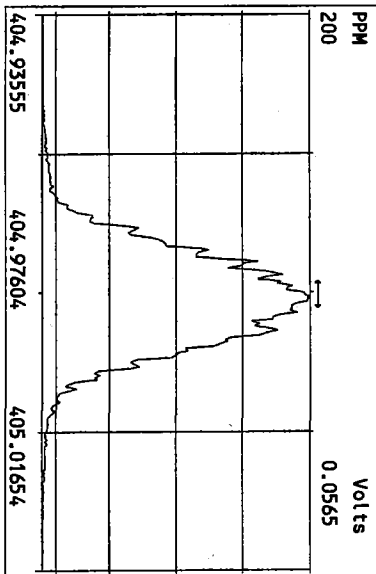
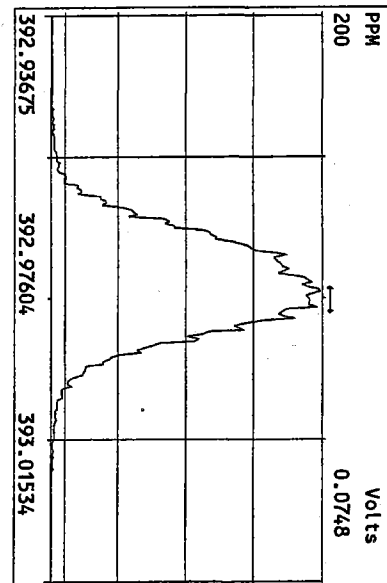
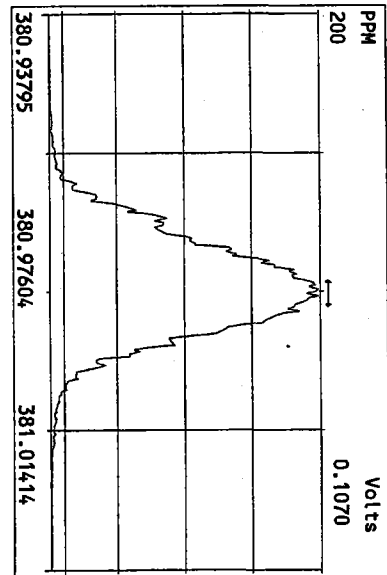
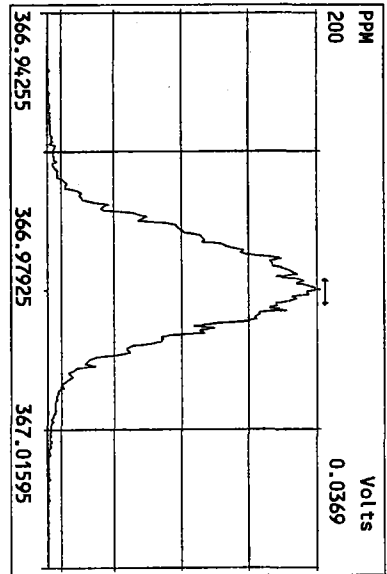
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Sample Text:ST032410M1 File Text:Frontier Analytical Laboratory



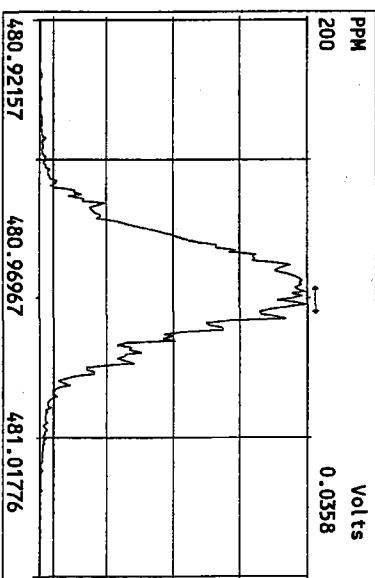
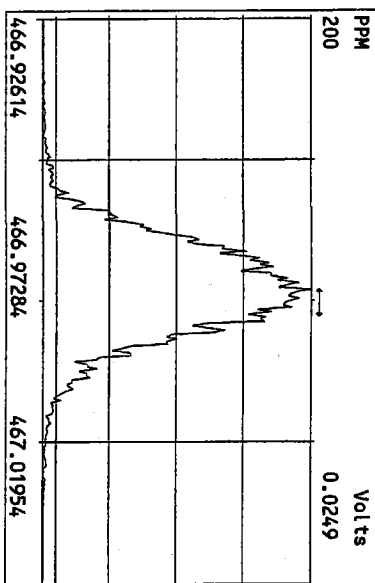
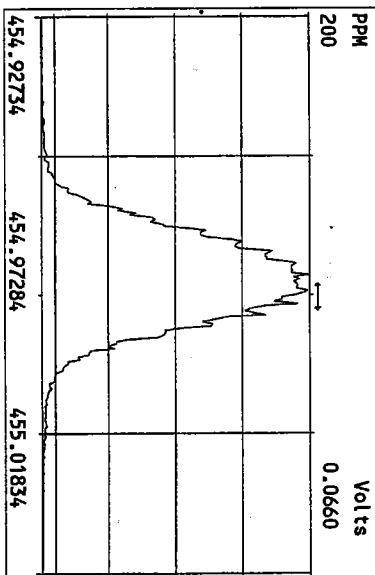
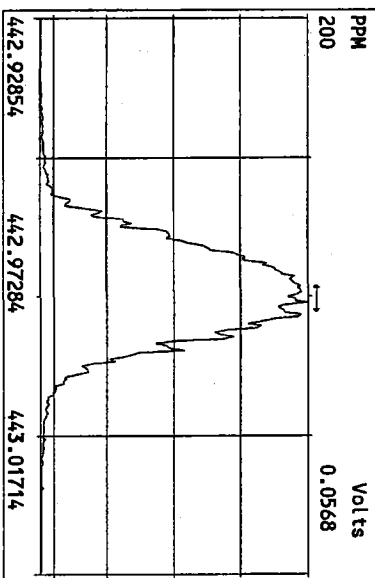
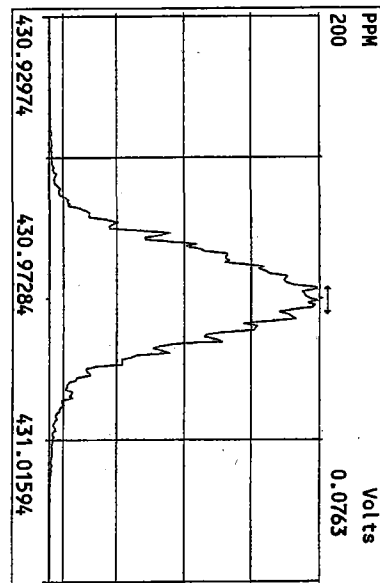
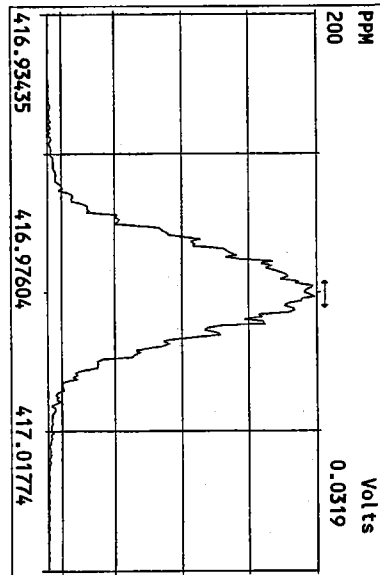
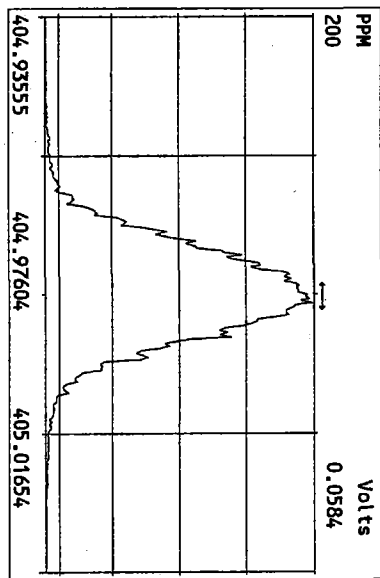
Peak Locate Examination:25-MAR-2010:07:43 File:24MART0M_RES_CHECK
Experiment:PCDD Function:1 Reference:PFK



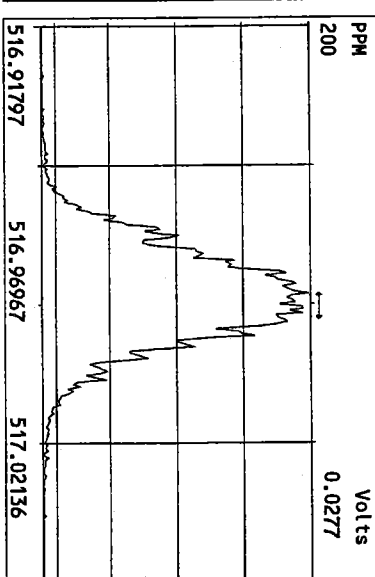
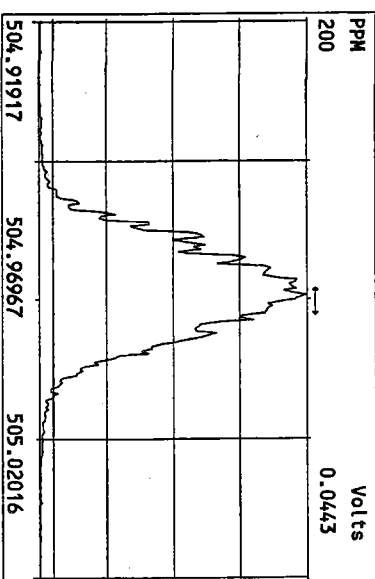
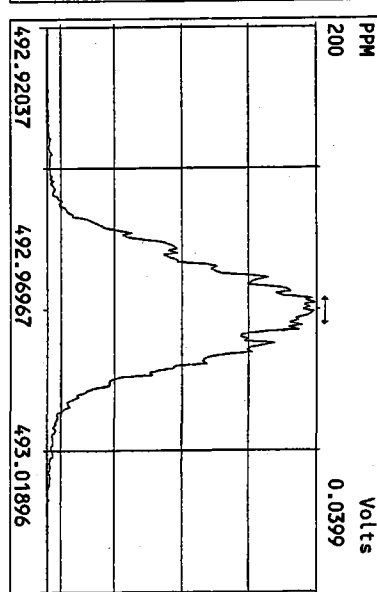
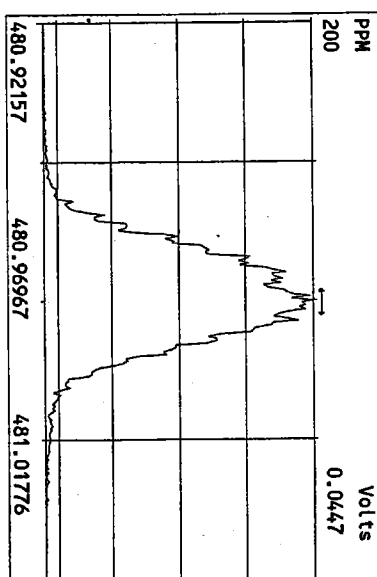
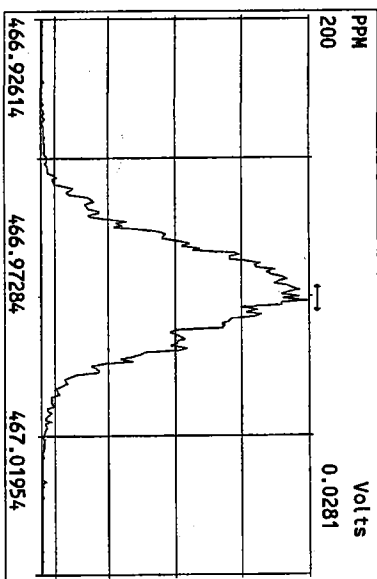
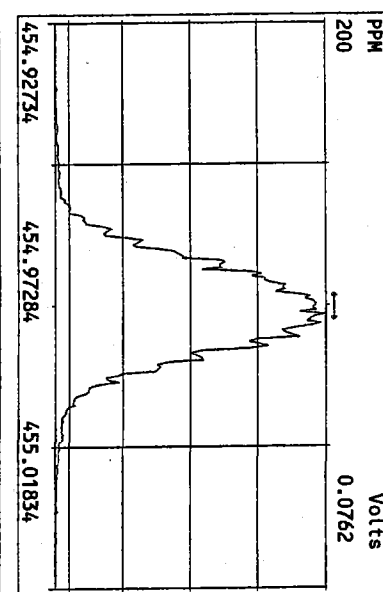
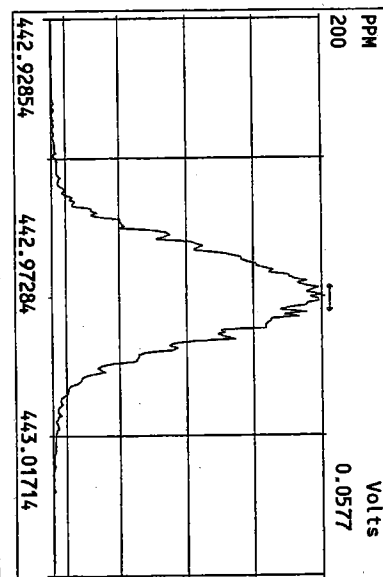
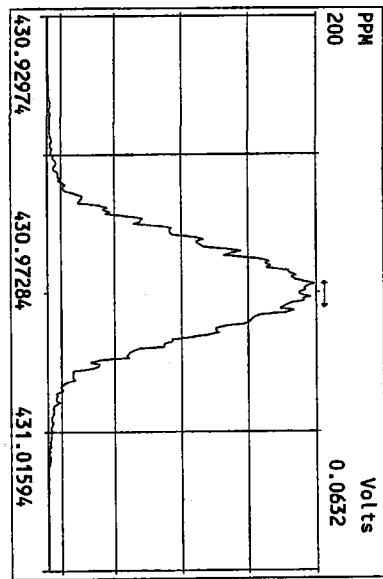




Peak Locate Examination: 25-MAR-2010:07:45 File: 24MART0M_RES_CHECK
 Experiment: PCDD Function: 4 Reference: PFK



Peak Locate Examination: 25-MAR-2010:07:45 File: 24MAR10M_RES_CHECK
 Experiment: PCDD Function: 5 Reference: PFK



USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

VER Data Filename: 24MAR10M Sam:12 Analysis Date: 24-MAR-10 19:40:23

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	0.78	0.65-0.89	y	10.2	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.50	1.32-1.78	y	47.7	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	48.0	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.1	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	48.1	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.95	0.88-1.20	y	49.1	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.91	0.76-1.02	y	95.3	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.67	0.65-0.89	y	9.99	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	50.2	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	48.3	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	49.2	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.20	1.05-1.43	y	49.9	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	49.0	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.8	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	49.3	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.2	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	94.2	63.0 - 159 ✓

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

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

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

Analyst: [Signature]

Date: 3/25/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 24MAR10M Sam:12

Analysis Date: 24-MAR-10 19:40:23

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	92.3	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32-1.78	y	79.2	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	109	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	99.1	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	103	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.97	0.76-1.02	y	216	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	101	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	82.9	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	79.4	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.48	0.43-0.59	y	93.7	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.48	0.43-0.59	y	88.7	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	92.8	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.47	0.43-0.59	y	89.5	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.47	0.37-0.51	y	89.0	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	92.8	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	175	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.2	7.80 - 12.8 ✓

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

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

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

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

Analyst: 

Date: 3/25/10

000246 of 000302

QL58:00762

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: 11/18/09
RT Window Data Filename: 24MAR10M Sam:12 Analysis Date: 24-MAR-10 Time: 19:40:23
DB-5 IS Data Filename: 24MAR10M Sam:12 Analysis Date: 24-MAR-10 Time: 19:40:23
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)	24:21 ✓	1,3,6,8-TCDF (F)	22:60 ✓
1,2,8,9-TCDD (L)	28:18 ✓	1,2,8,9-TCDF (L)	28:30 ✓
1,2,4,7,9-PeCDD (F)	30:14 ✓	1,3,4,6,8-PeCDF (F)	28:24 ✓
1,2,3,8,9-PeCDD (L)	33:46 ✓	1,2,3,8,9-PeCDF (L)	34:10 ✓
1,2,4,6,7,9-HxCDD (F)	36:06 ✓	1,2,3,4,6,8-HxCDF (F)	35:14 ✓
1,2,3,7,8,9-HxCDD (L)	39:10 ✓	1,2,3,7,8,9-HxCDF (L)	39:43 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:47 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:16 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:10 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:04 ✓

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

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst:

Date: 3/25/10

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 24-MAR-10 19:40:23

CS3 or VER Data Filename: 24MAR10M

Sam:12

NATIVE ANALYTES	RETENTION TIME		RRT	RRT
	REFERENCE			QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD		1.001	0.999-1.002 ✓
2,3,7,8-TCDF	13C-2,3,7,8-TCDF		1.000	0.999-1.003 ✓
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD		1.001	0.999-1.002 ✓
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF		1.001	0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF		1.000	0.999-1.002 ✓
LABELED COMPOUNDS				
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD		1.021	0.989-1.052 ✓
13C-2,3,7,8-TCDD			1.021	0.976-1.043 ✓
13C-2,3,7,8-TCDF			0.993	0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD			1.238	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF			1.174	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF			1.223	0.923-1.303 ✓

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

Analyst: EDate: 3/25/10

USEPA - ITD

FORM 68

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 24-MAR-10 19:40:23

CS3 or VER Data Filename: 24MAR10M

Sam:12

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001✓
OCDD	13C-OCDD	1.001	0.999-1.001✓
OCDF	13C-OCDF	1.001	0.999-1.001✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.985	0.977-1.000✓
13C-1,2,3,6,7,8-HxCDD		0.989	0.981-1.003✓
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970✓
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975✓
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021✓
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130✓
13C-1,2,3,4,6,7,8-HpCDF		1.080	1.043-1.085✓
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154✓
13C-OCDD		1.270	1.032-1.311✓
13C-OCDF		1.279	1.000-1.311✓

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

Analyst: 

Date: 3/25/10

000249 of 000302

QL58 : 00765

FAL ID: ST032410M2 Filename: 24MAR10M Sam:12 Acquired: 24-MAR-10 19:40:23 ICal: pcddfal3-11-18-09
 Client ID: 1613 CS3 (090918J) ConCal: ST032410M1 EndCal: ST032410M2
 Results: 6005 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 97.7

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		111 DL	
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	2.62e+06	0.78 y	27:21	1.02	10.2	2.50	-	-	*	
1,2,3,7,8-PeCDD	9.95e+06	1.50 y	33:11	0.96	47.7	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	9.99e+06	1.27 y	38:34	1.37	48.0	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	8.85e+06	1.27 y	38:44	1.34	50.1	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	9.32e+06	1.27 y	39:10	1.37	48.1	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	7.49e+06	0.95 y	44:10	1.17	49.1	2.50	-	-	*	
OCDD	1.18e+07	0.91 y	49:44	1.21	95.3	2.50	-	-	*	
2,3,7,8-TCDF	4.78e+06	0.67 y	26:35	1.29	9.99	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.36e+07	1.62 y	31:27	0.89	50.2	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.24e+07	1.60 y	32:46	0.91	48.3	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.12e+07	1.24 y	37:10	1.00	49.2	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.15e+07	1.20 y	37:22	0.92	49.9	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.10e+07	1.22 y	38:17	0.99	49.0	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.01e+07	1.24 y	39:43	1.09	48.8	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	9.29e+06	1.03 y	42:16	1.36	49.3	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	8.63e+06	1.03 y	45:04	1.61	48.2	2.50	-	-	*	
OCDF	1.16e+07	0.91 y	50:05	0.84	94.2	2.50	-	-	*	
									Rec	
13C-2,3,7,8-TCDD	2.52e+07	0.73 y	27:20	0.94	99.3				99.3	
13C-1,2,3,7,8-PeCDD	2.17e+07	1.59 y	33:10	1.02	79.2				79.2	
13C-1,2,3,4,7,8-HxCDD	1.52e+07	1.31 y	38:32	0.98	109				109	
13C-1,2,3,6,7,8-HxCDD	1.32e+07	1.30 y	38:42	0.94	99.1				99.1	
13C-1,2,3,4,6,7,8-HpCDD	1.31e+07	1.02 y	44:09	0.90	103				103	
13C-OCDD	2.04e+07	0.97 y	49:42	0.67	216				108	
13C-2,3,7,8-TCDF	3.72e+07	0.78 y	26:35	0.88	101				101	
13C-1,2,3,7,8-PeCDF	3.05e+07	1.60 y	31:26	0.88	82.9				82.9	
13C-2,3,4,7,8-PeCDF	2.83e+07	1.61 y	32:45	0.85	79.4				79.4	
13C-1,2,3,4,7,8-HxCDF	2.28e+07	0.48 y	37:08	1.72	93.7				93.7	
13C-1,2,3,6,7,8-HxCDF	2.52e+07	0.48 y	37:20	2.00	88.7				88.7	
13C-2,3,4,6,7,8-HxCDF	2.28e+07	0.50 y	38:17	1.74	92.8				92.8	
13C-1,2,3,7,8,9-HxCDF	1.91e+07	0.47 y	39:42	1.51	89.5				89.5	
13C-1,2,3,4,6,7,8-HpCDF	1.39e+07	0.47 y	42:15	1.10	89.0				89.0	
13C-1,2,3,4,7,8,9-HpCDF	1.11e+07	0.47 y	45:03	0.85	92.8				92.8	
13C-OCDF	2.91e+07	0.90 y	50:04	1.17	175				87.6	
37Cl-2,3,7,8-TCDD	2.67e+06		27:21	0.97	10.2				102	
13C-1,2,3,4-TCDD	2.69e+07	0.75 y	26:47	-	103					
13C-1,2,3,4-TCDF	4.20e+07	0.80 y	25:30	-	90.8					
13C-1,2,3,7,8,9-HxCDD	1.42e+07	1.30 y	39:08	-	69.1					
Total Tetra-Dioxins	1.42e+07		24:06	1.02	55.3	2.50	-	-	*	22
Total Penta-Dioxins	2.22e+07		30:14	0.96	106	2.50	-	-	*	8
Total Hexa-Dioxins	3.23e+07		36:06	1.36	168	2.50	-	-	*	17
Total Hepta-Dioxins	1.59e+07		42:14	1.17	104	2.50	-	-	*	10
Total Tetra-Furans	1.97e+07		23:00	1.29	41.1	2.50	-	-	*	18
1st Fn. Tot Penta-Furans	1.82e+07		28:24	0.90	68.9	2.50	-	-	*	PeCDF 1
Total Penta-Furans	3.81e+07		30:08	0.90	145	2.50	-	-	*	213 21
Total Hexa-Furans	5.20e+07		35:14	0.99	233	2.50	-	-	*	13
Total Hepta-Furans	1.82e+07		42:16	1.47	99.3	2.50	-	-	*	10

Analyst: [Signature] Date: 3/25/10

Frontier Analytical Laboratory - Acquisition Log

Run Name: 24MAR10M Instrument: FAL3 GC: DB5 Experiment: PCDD

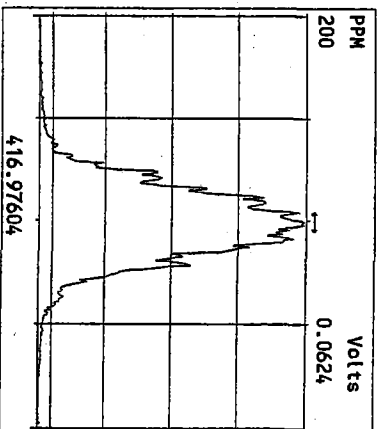
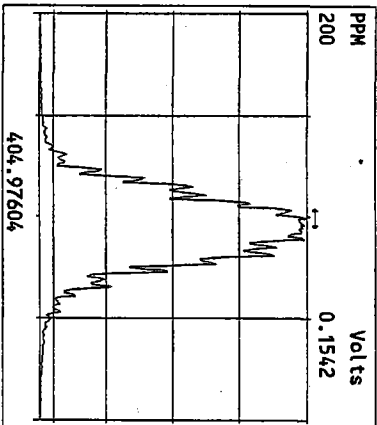
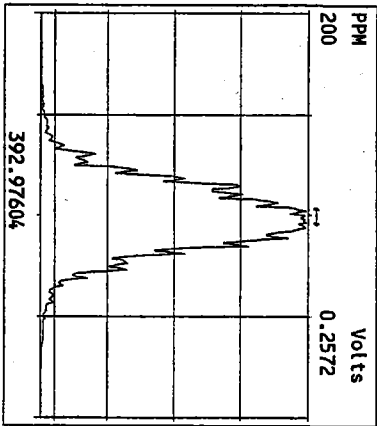
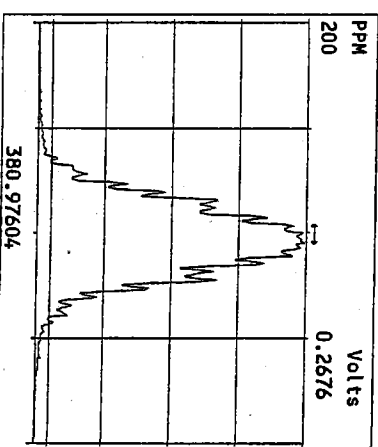
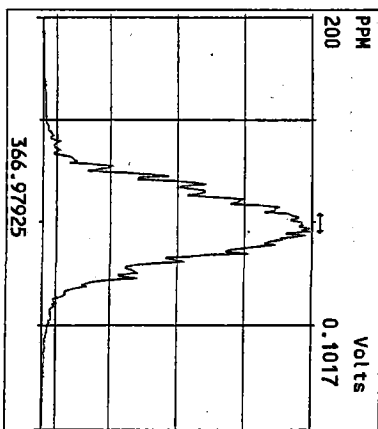
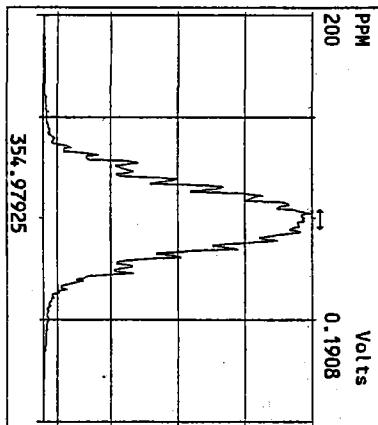
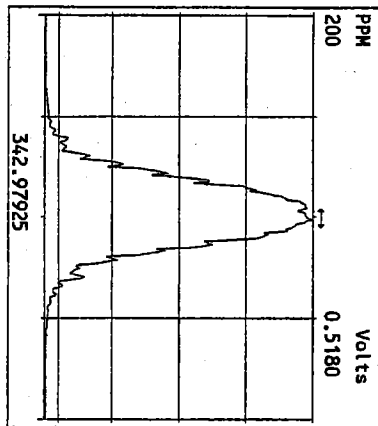
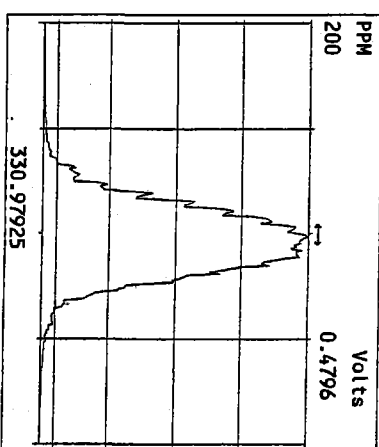
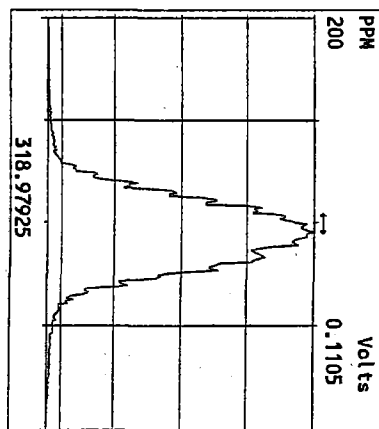
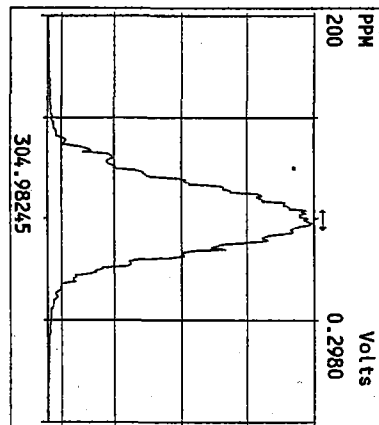
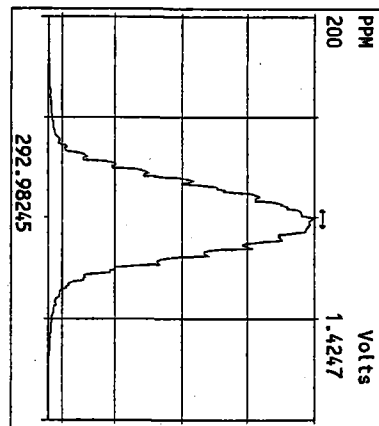
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24MAR10M	2	1968-001-0001-OPR	OPR	24-MAR-10 10:26:40	ST032410M1	ST032410M2	TC
24MAR10M	3	1968-001-0001-MB	Method Blank	24-MAR-10 11:21:58	ST032410M1	ST032410M2	TC
24MAR10M	4	6028-001-0001-SA	0030508-01	24-MAR-10 12:17:21	ST032410M1	ST032410M2	TC
24MAR10M	5	6023-001-0001-SA	E-001D (Final EFF)	24-MAR-10 13:12:43	ST032410M1	ST032410M2	TC
24MAR10M	6	6005-001-0001-SA	CB31A022410Comp	24-MAR-10 14:08:02	ST032410M1	ST032410M2	TC
24MAR10M	7	6005-002-0001-SA	CB4857022410Comp	24-MAR-10 15:03:20	ST032410M1	ST032410M2	TC
24MAR10M	8	6005-003-0001-SA	CB1022410Comp	24-MAR-10 15:58:43	ST032410M1	ST032410M2	TC
24MAR10M	9	6005-004-0001-SA	CB100022410Comp	24-MAR-10 16:54:10	ST032410M1	ST032410M2	TC
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24MAR10M	11	SB032410M1	Solvent Blank	24-MAR-10 18:45:00	ST032410M1	ST032410M2	TC
24MAR10M	12	ST032410M2	1613 CS3 (090918J)	24-MAR-10 19:40:23	ST032410M1	ST032410M2	TC
24MAR10M	13	1969-001-0001-OPR	OPR	24-MAR-10 20:35:49	ST032410M2	ST032410M3	TC
24MAR10M	14	1969-001-0001-MB	Method Blank	24-MAR-10 21:31:15	ST032410M2	ST032410M3	TC
24MAR10M	15	6035-001-0001-SA	RM-51172 LOT-818833	24-MAR-10 22:26:38	ST032410M2	ST032410M3	TC
24MAR10M	16	6038-001-0001-SA	RM #51173 #816790	24-MAR-10 23:22:03	ST032410M2	ST032410M3	TC
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24MAR10M	18	6038-003-0001-SA	RM #51173 #818715	25-MAR-10 01:12:49	ST032410M2	ST032410M3	TC
24MAR10M	19	6038-004-0001-SA	RM #51173 #817599	25-MAR-10 02:08:12	ST032410M2	ST032410M3	TC
24MAR10M	20	6048-001-0001-SA	D/F Fortified Cod Livery	25-MAR-10 03:03:34	ST032410M2	ST032410M3	TC
24MAR10M	21	SB032410M2	Solvent Blank	25-MAR-10 03:58:56	ST032410M2	ST032410M3	TC
24MAR10M	22	SB032410M3	Solvent Blank	25-MAR-10 04:54:19	ST032410M2	ST032410M3	TC
24MAR10M	23	SB032410M4	Solvent Blank	25-MAR-10 05:49:42	ST032410M2	ST032410M3	TC
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[Handwritten signature] 3/25/10

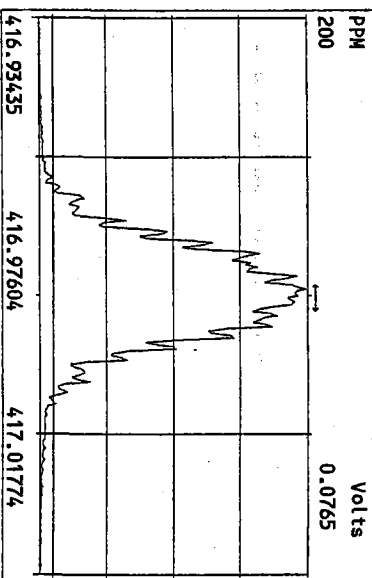
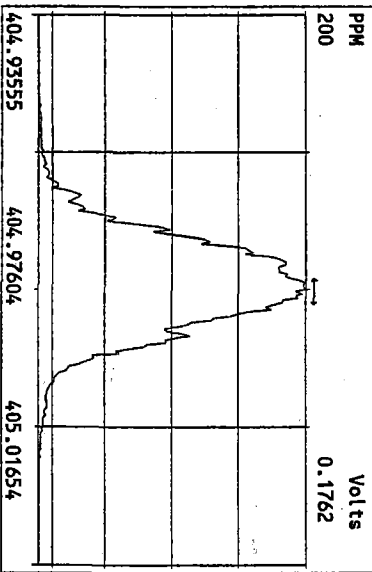
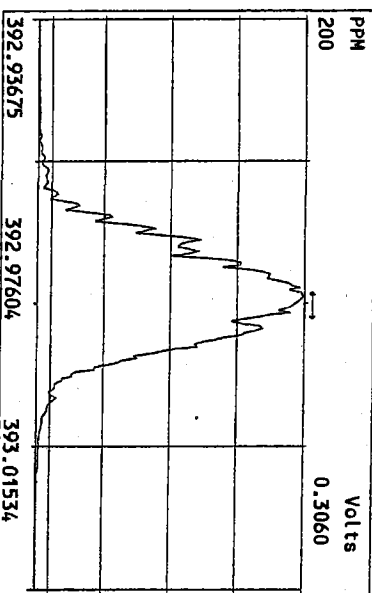
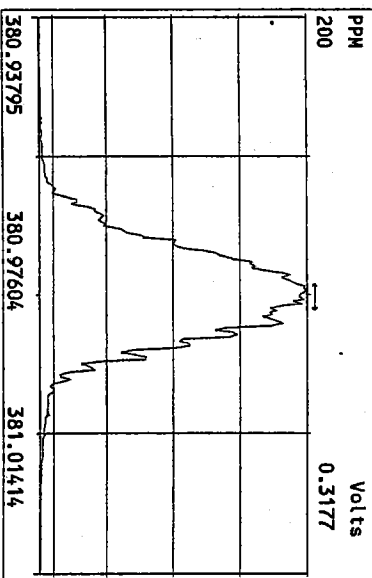
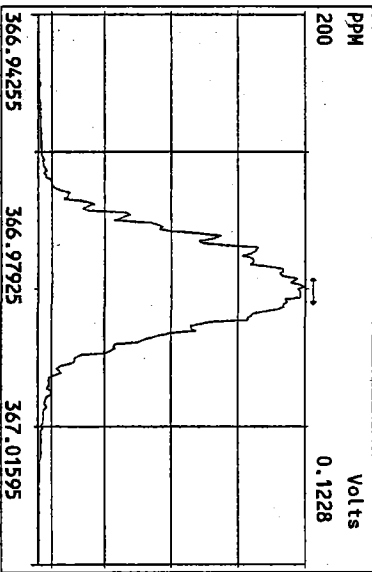
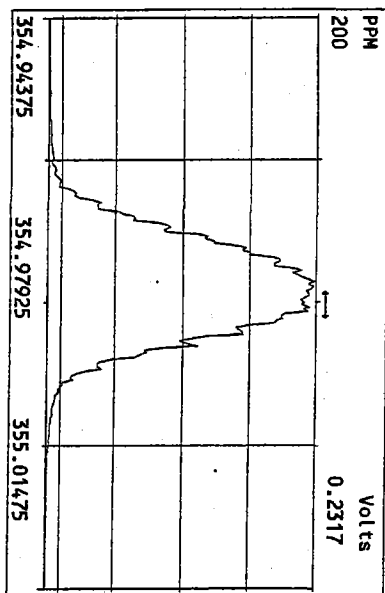
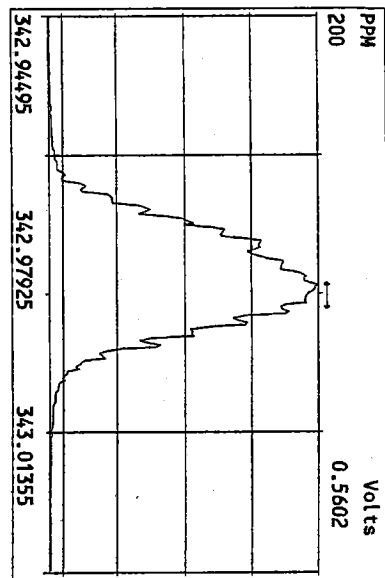
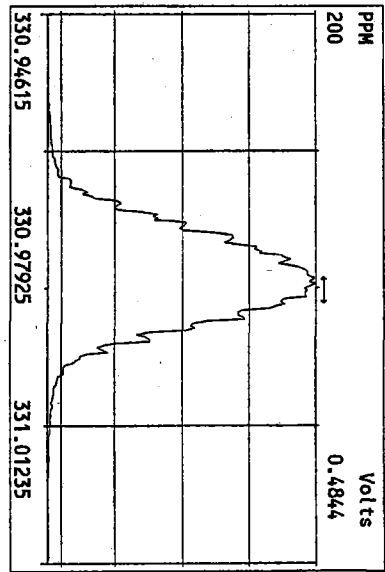
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Date: _____

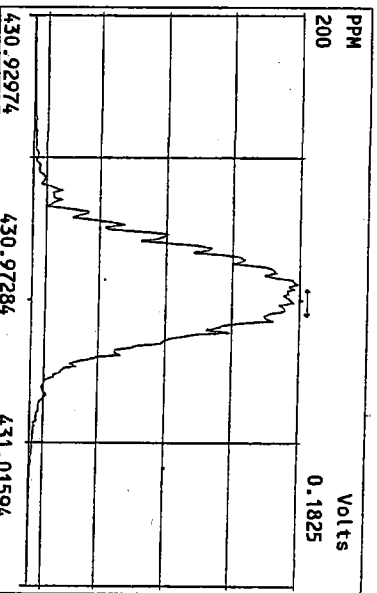
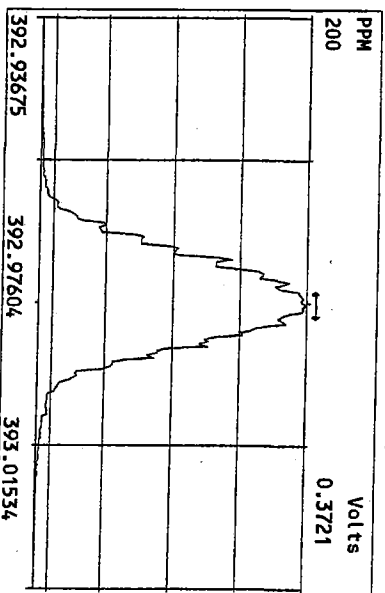
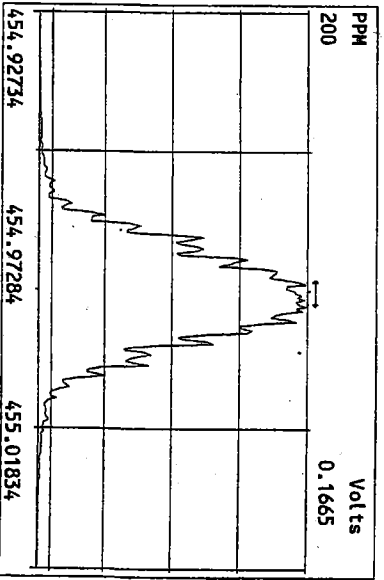
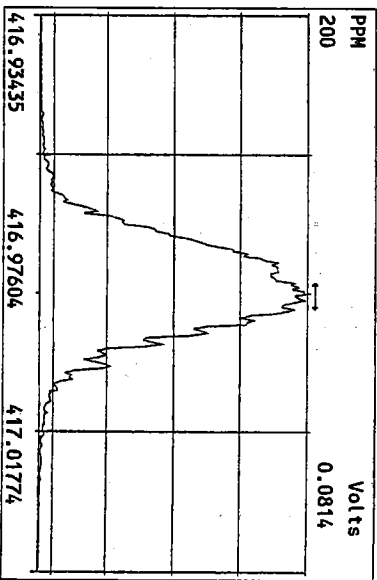
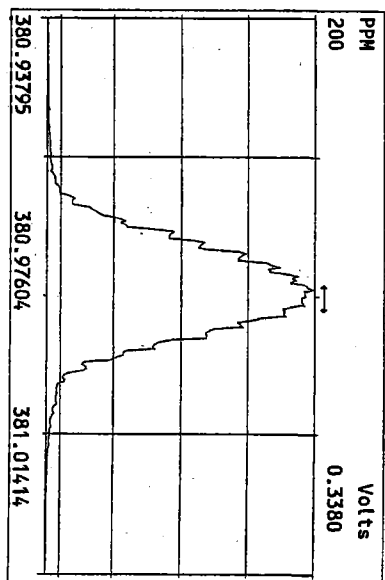
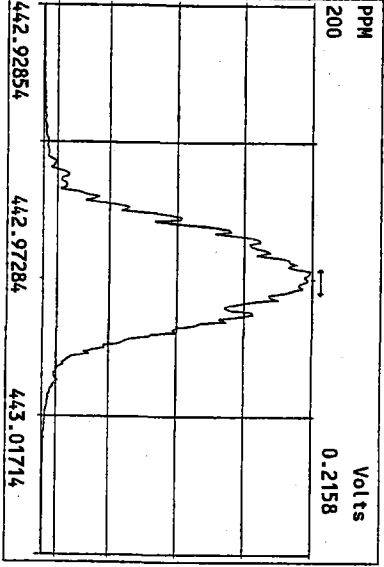
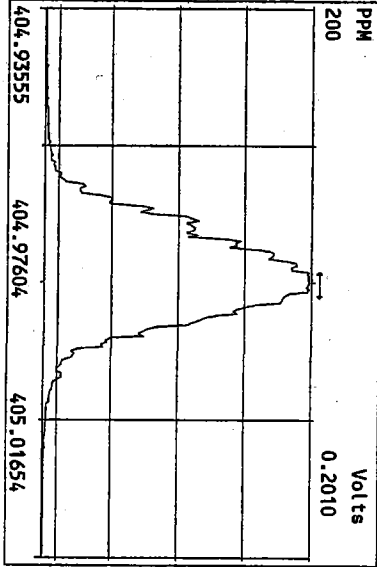
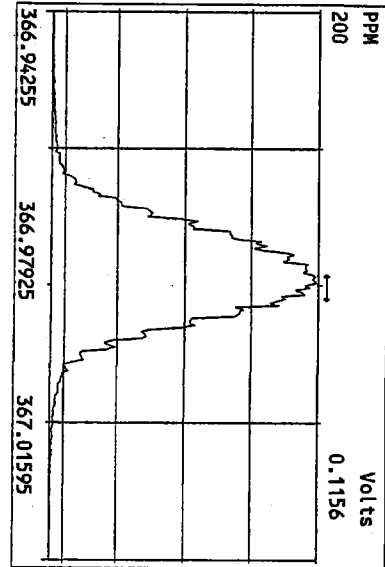
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Experiment:PCDD Function:1 Reference:PFK

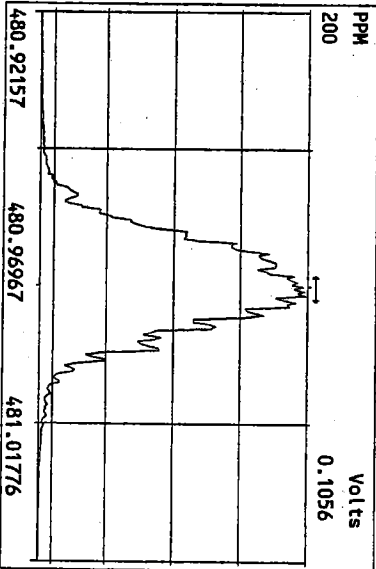
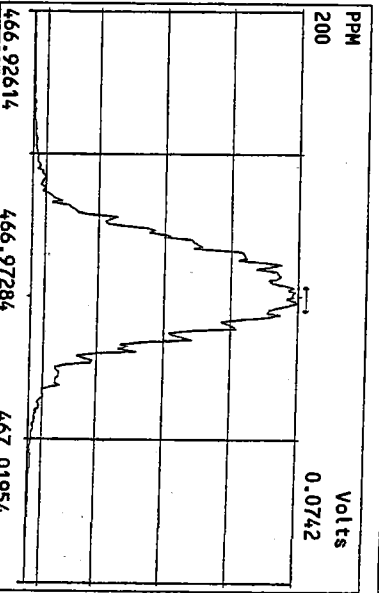
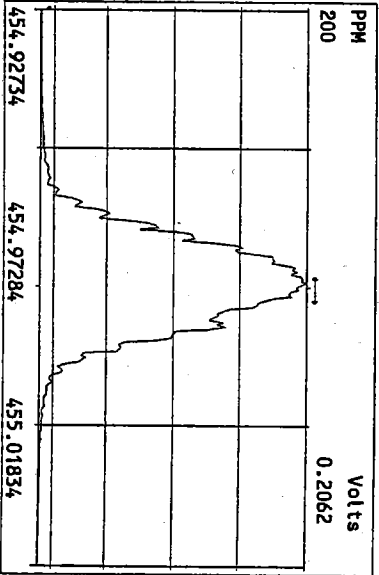
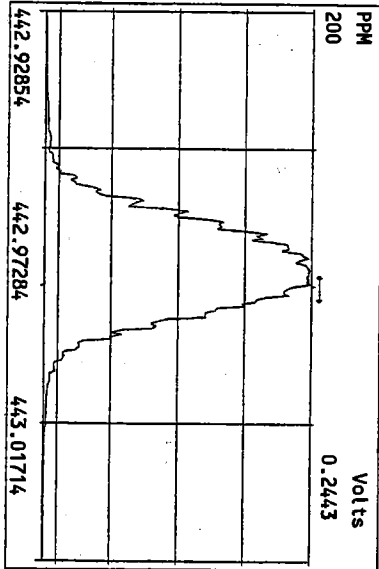
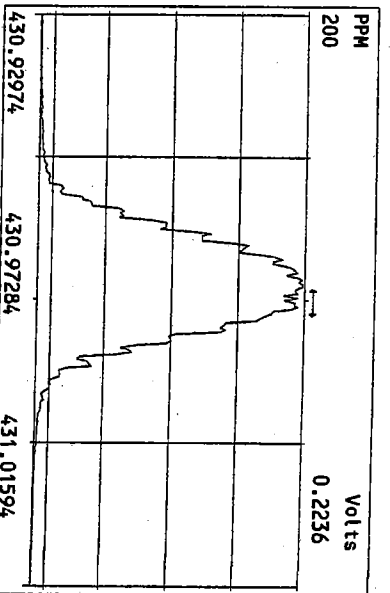
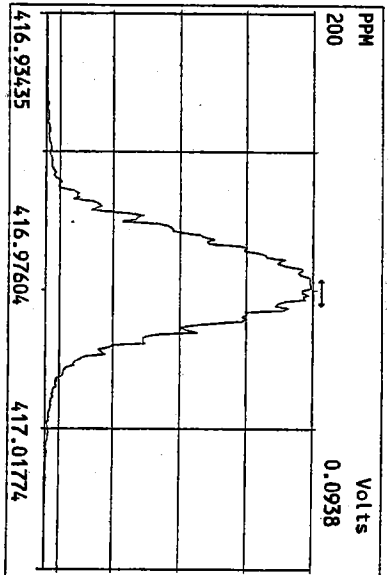
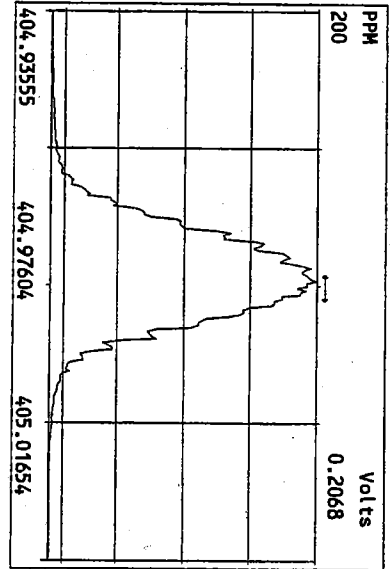


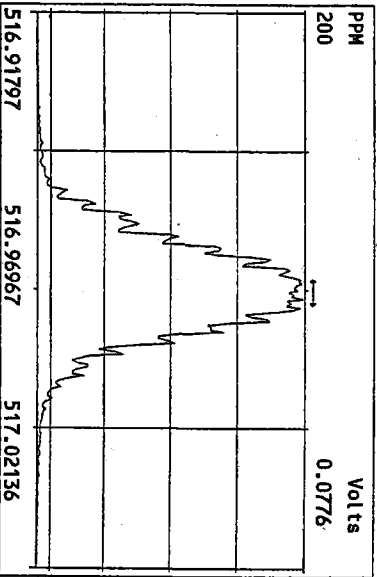
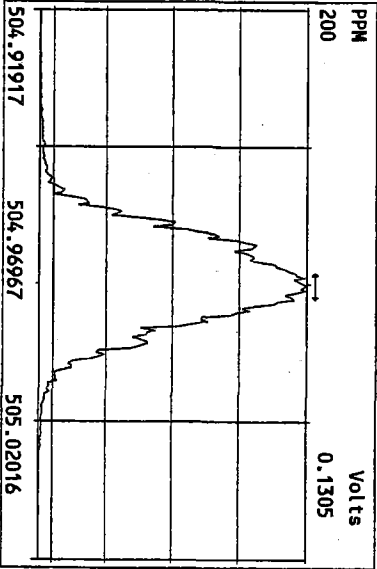
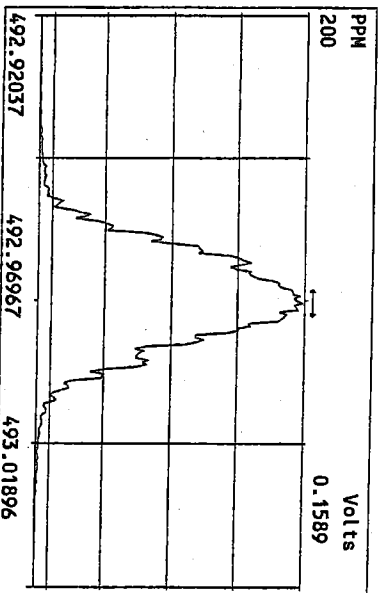
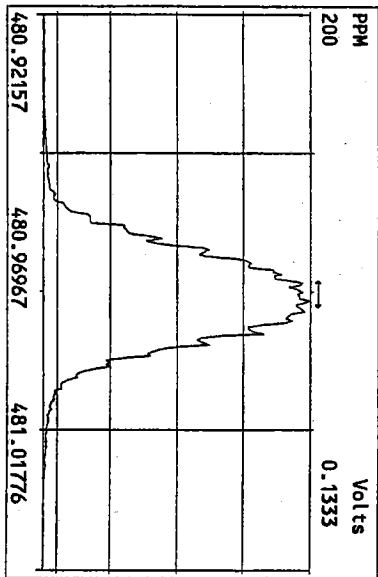
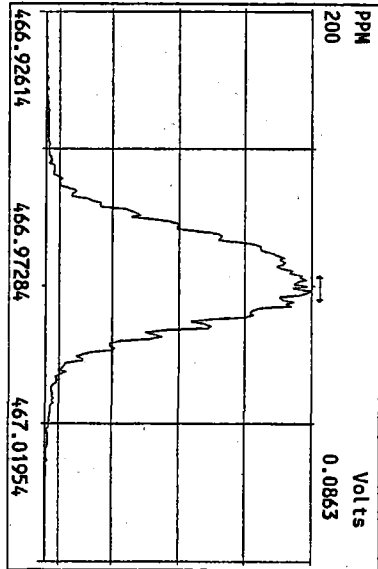
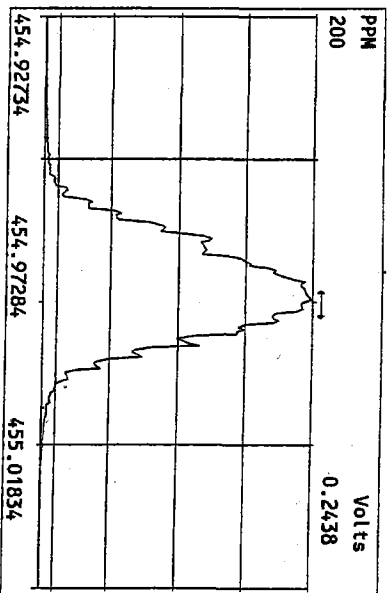
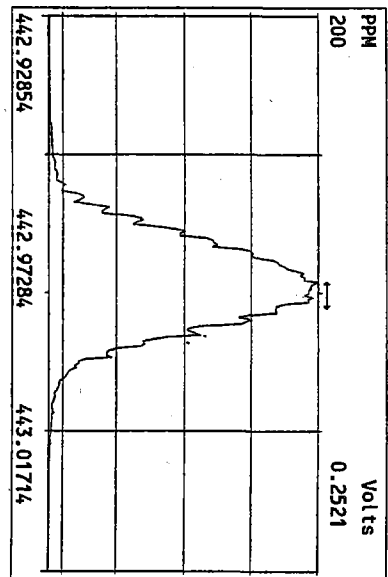
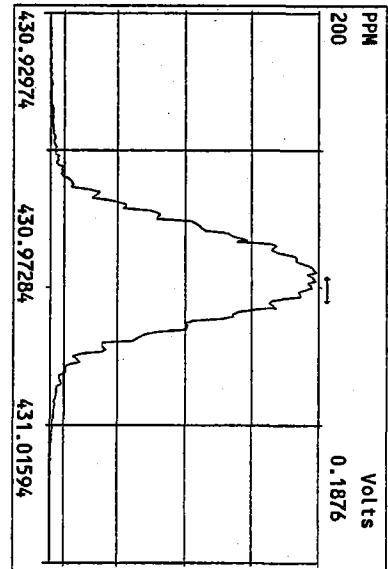
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 Experiment:PCDD Function:2 Reference:PKF



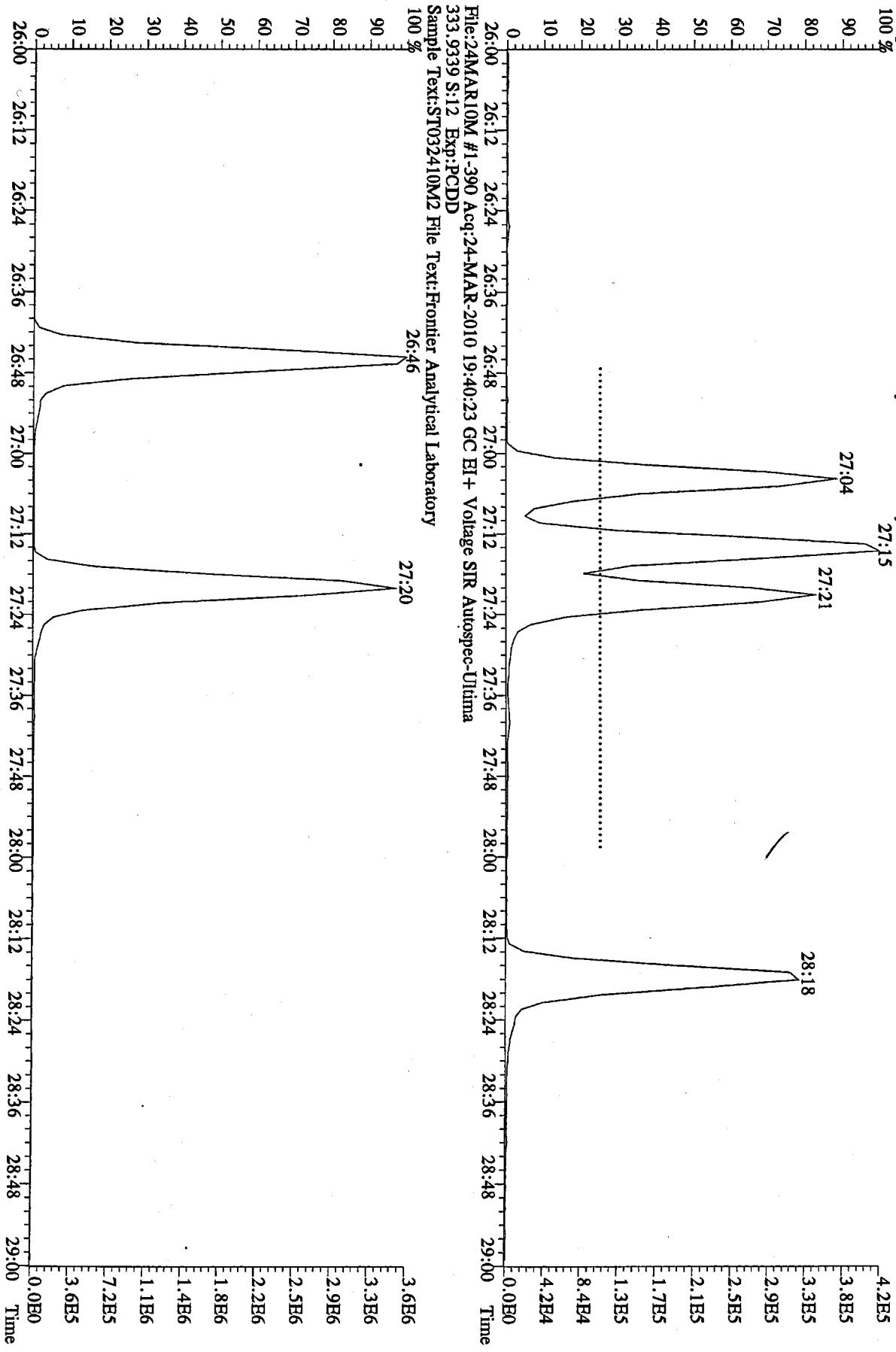
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Experiment:PCDD Function:3 Reference:PFK



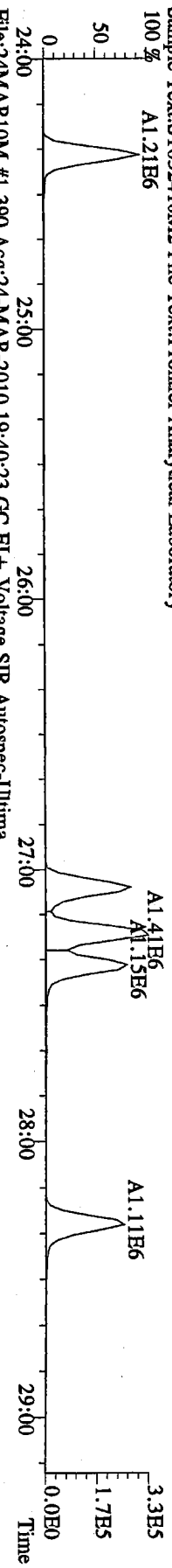




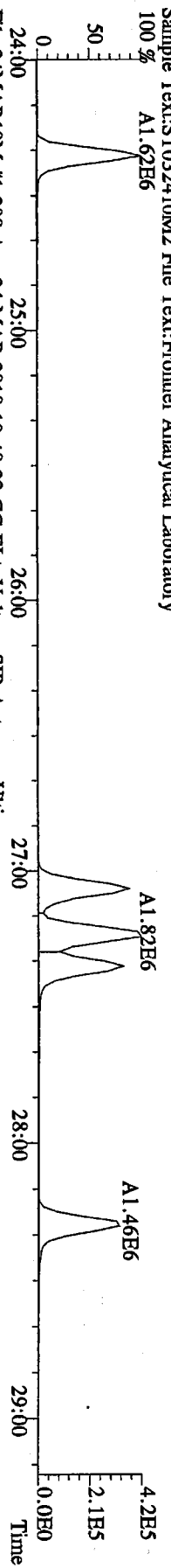
File:24MARI0M #1-390 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Utima
321.8936 S:12 Exp:PCDD
Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



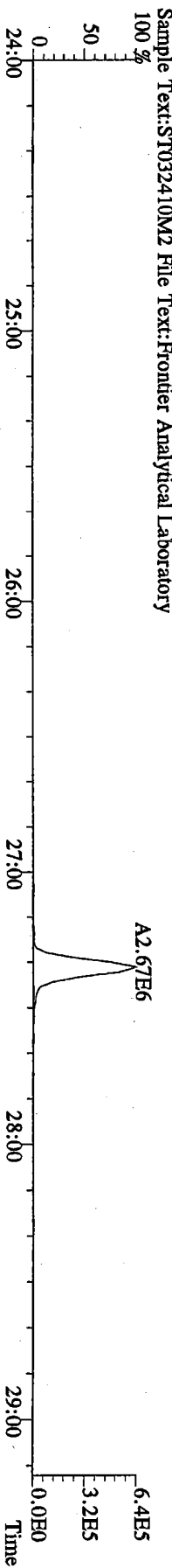
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319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



File:24MARI0M #1-390 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



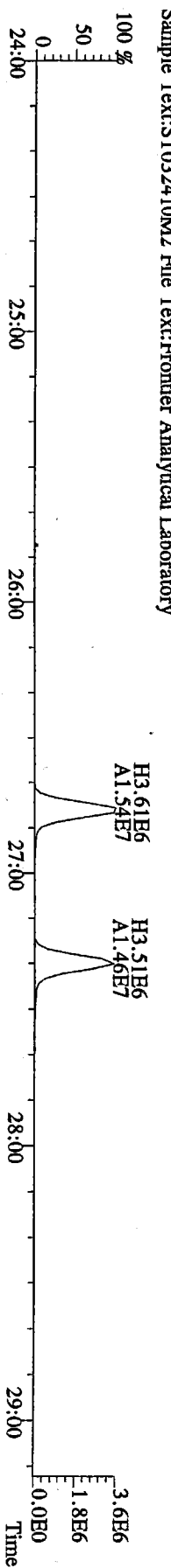
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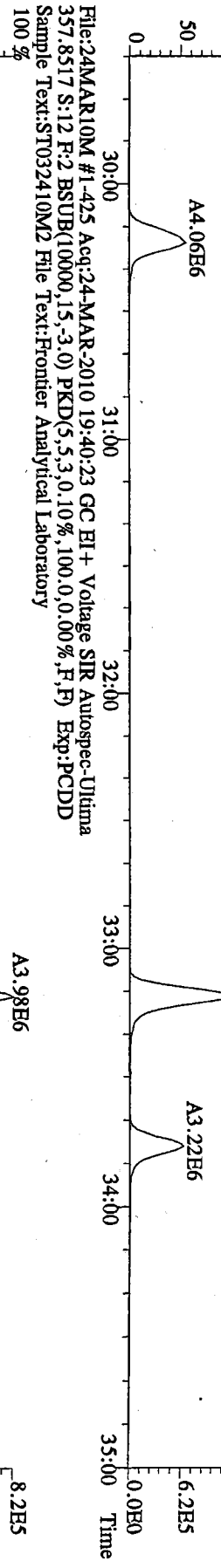
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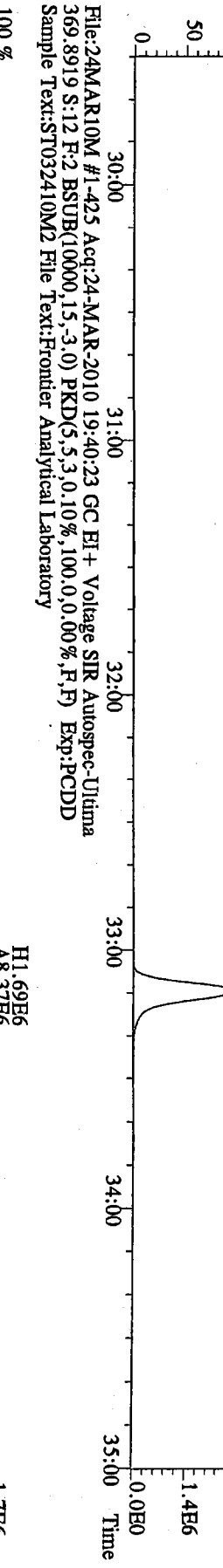
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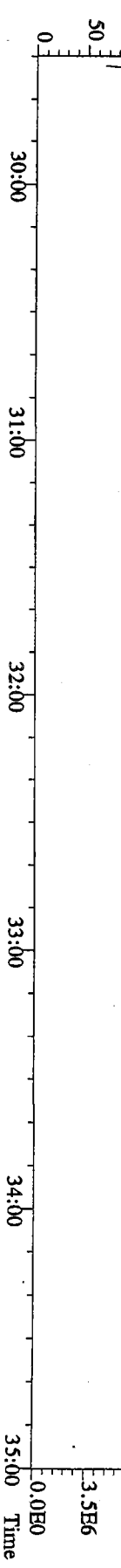
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Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



File:24MAR10M #1-425 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory

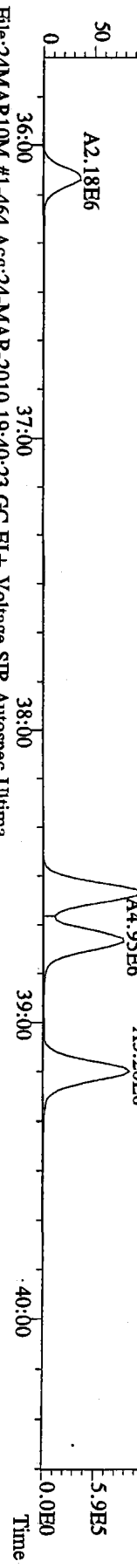


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366.9792 S:12 F:2 Exp:PCDD
Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory

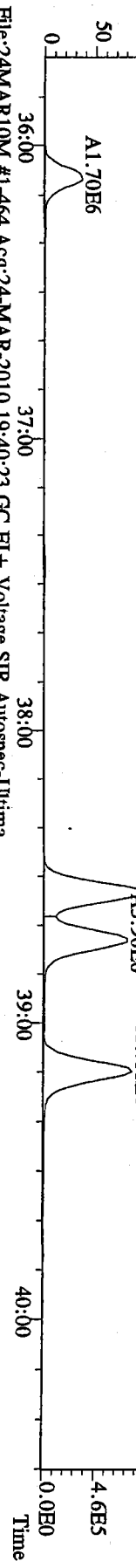


0158 : 00775

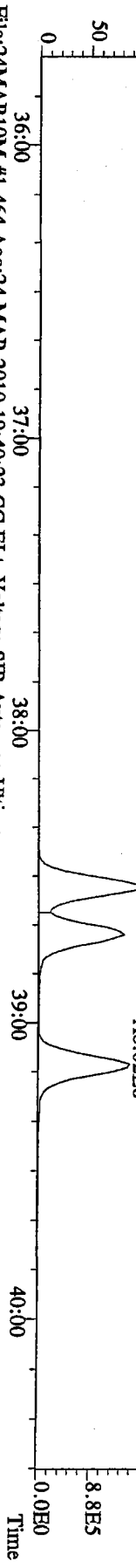
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 389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



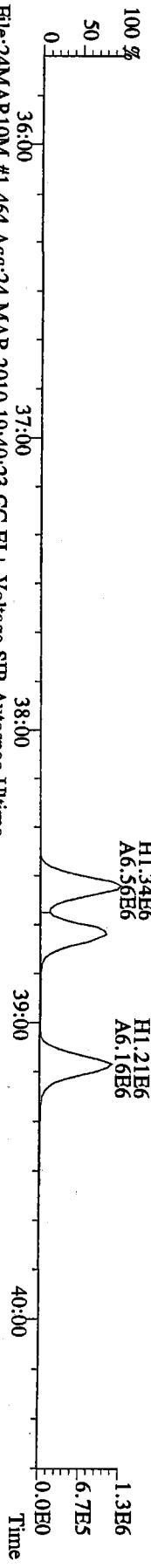
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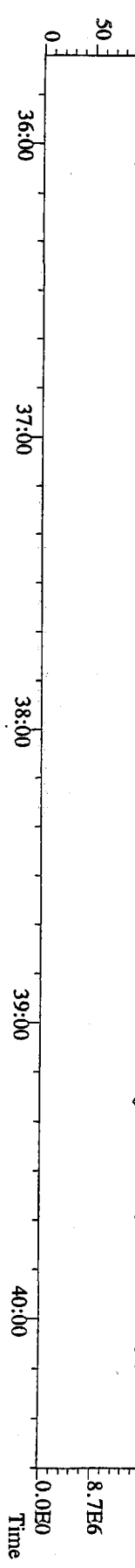
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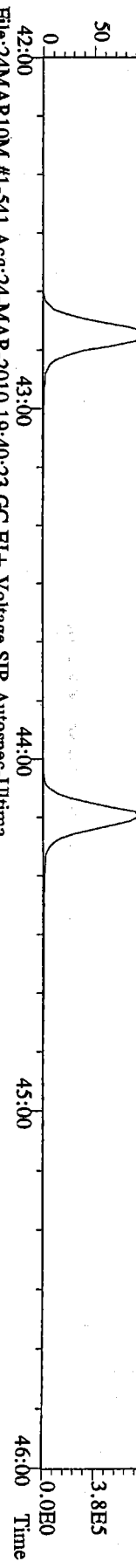
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 403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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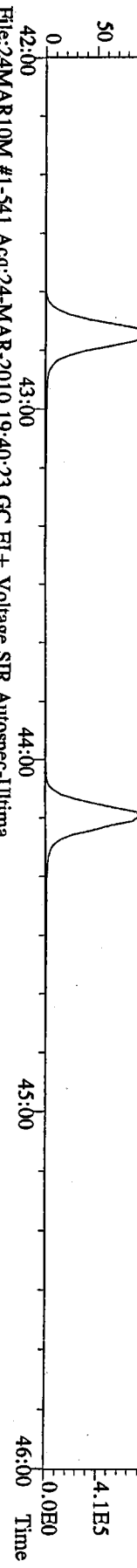
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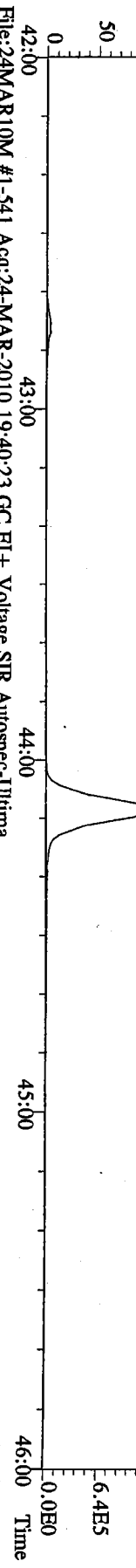
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 423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



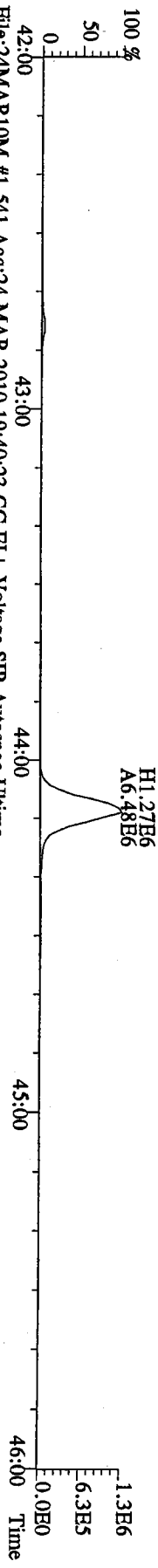
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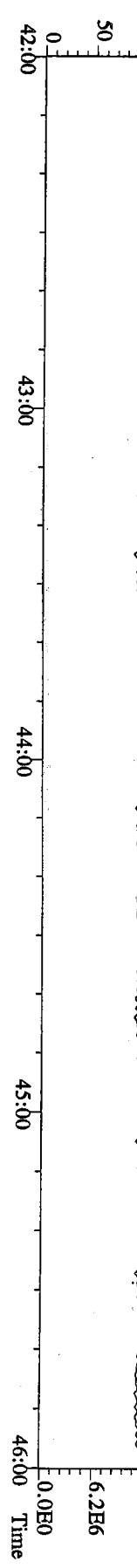
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 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



File:24MAR10M #1-541 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Utima
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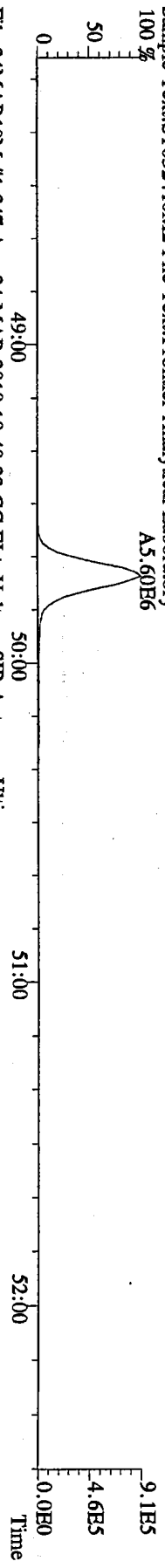


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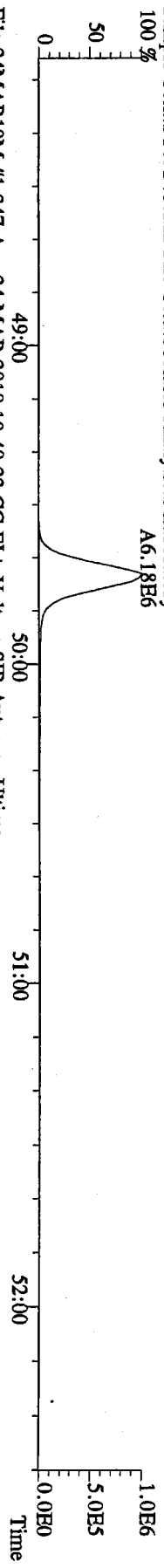


07:58:00777

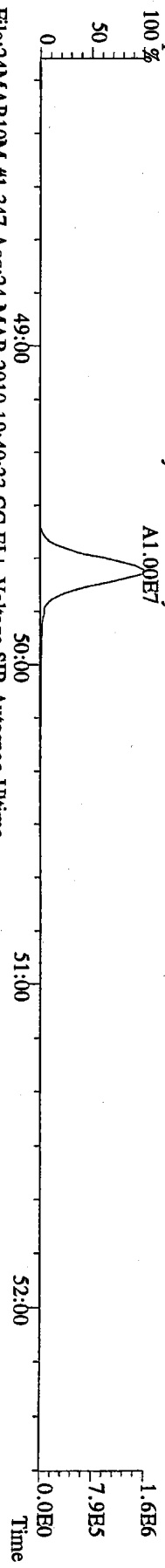
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 457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory
 100 %



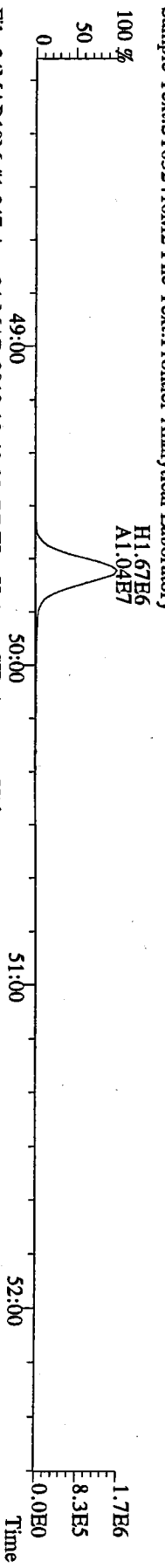
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 459.7348 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory
 100 %



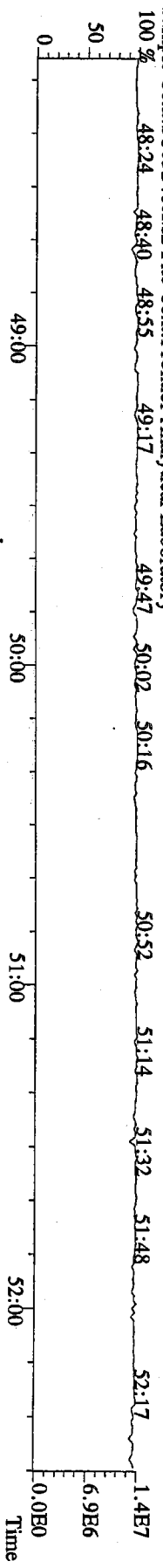
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 469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory
 100 %



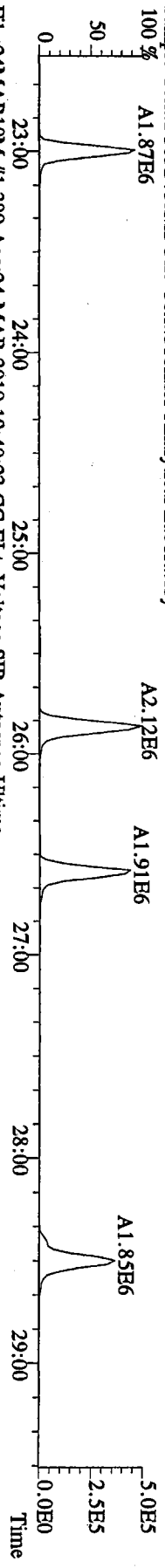
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 471.7750 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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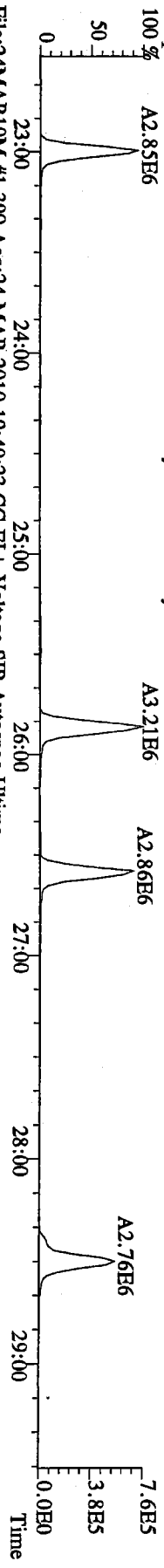
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 100 %



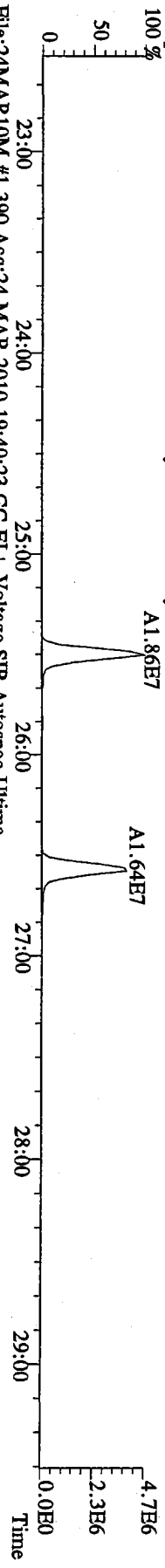
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 303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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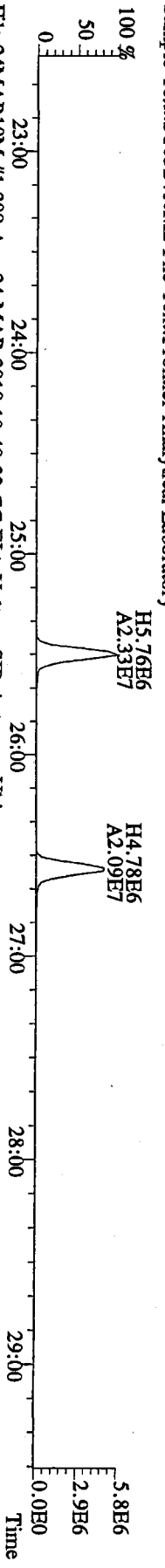
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 305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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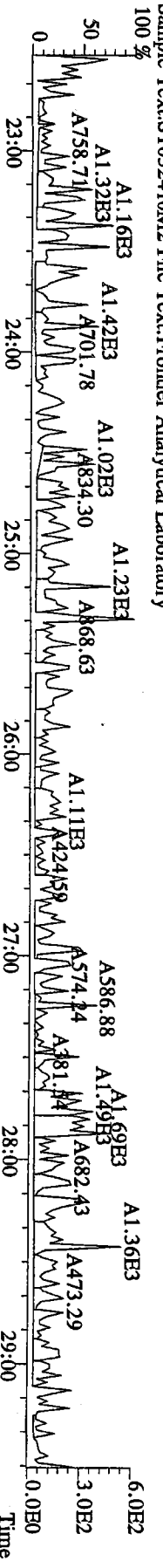
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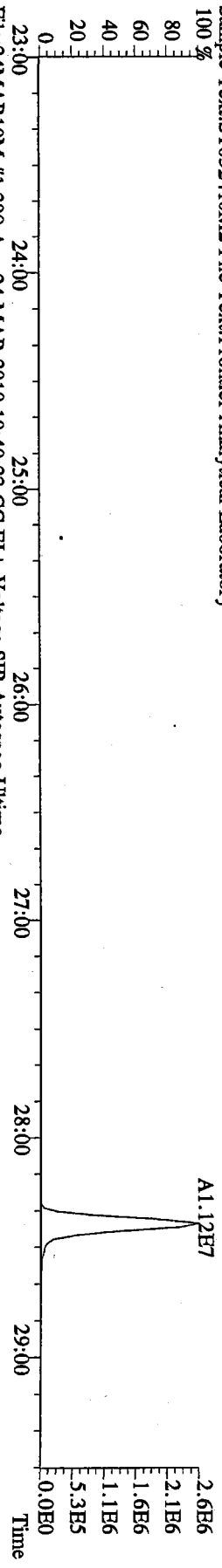
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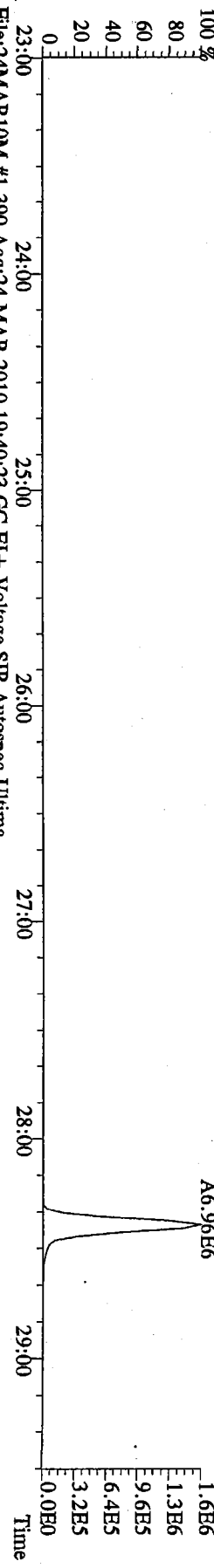
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 375.8364 S:12 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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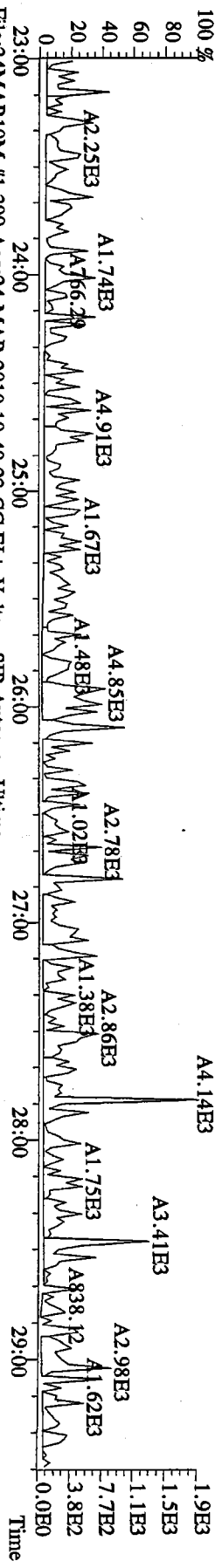
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 339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
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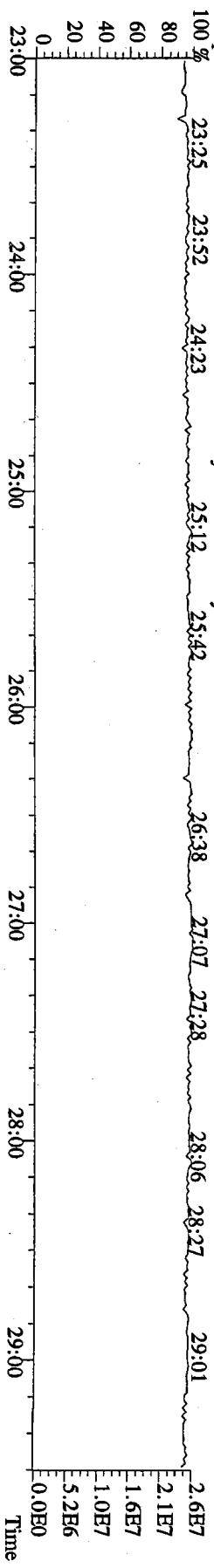
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 341.8568 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
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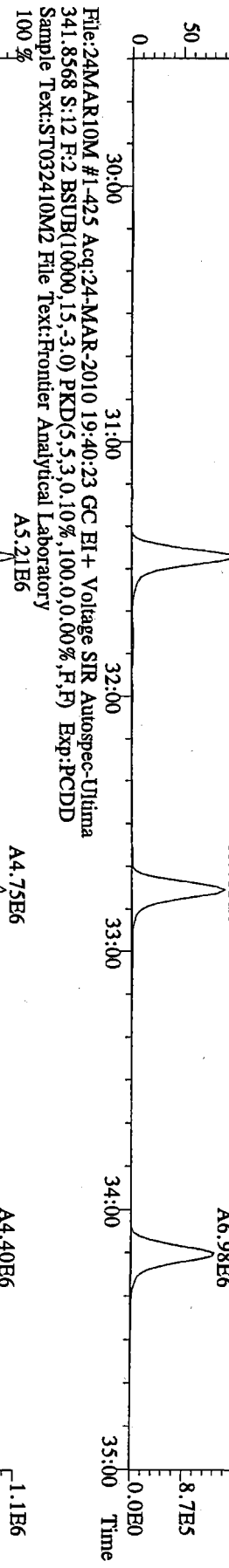
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 409.7974 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
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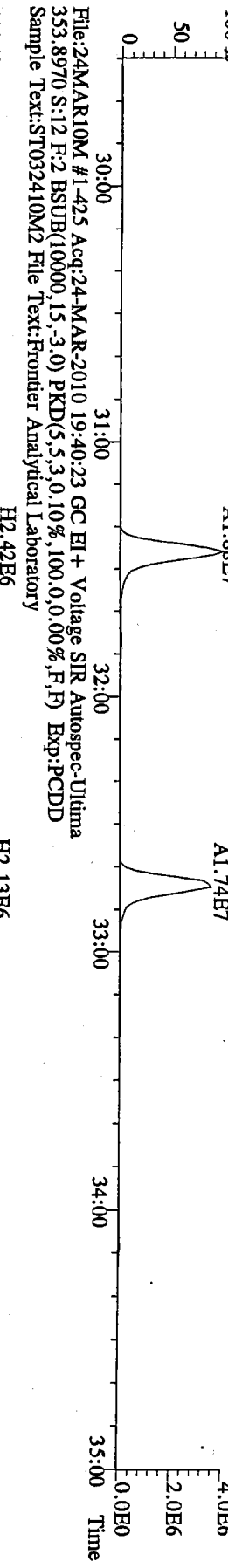
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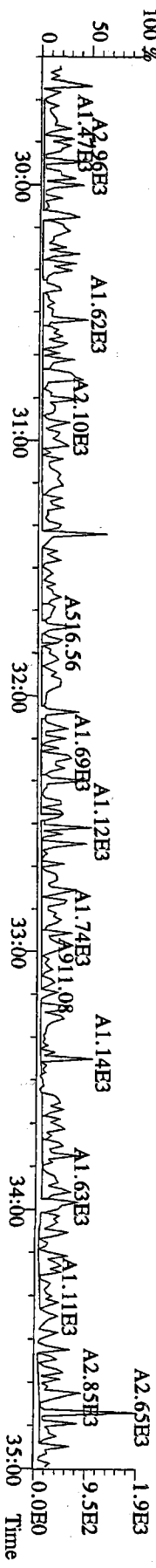
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 339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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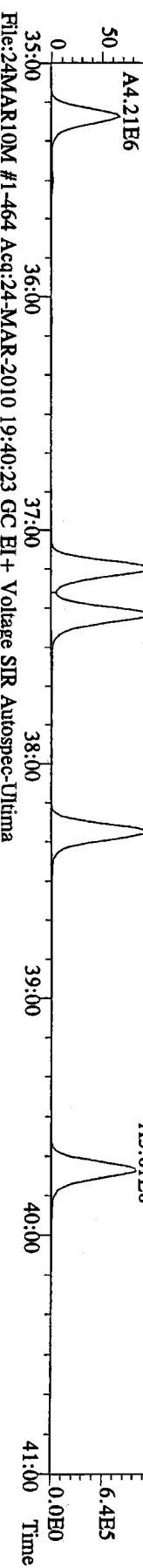
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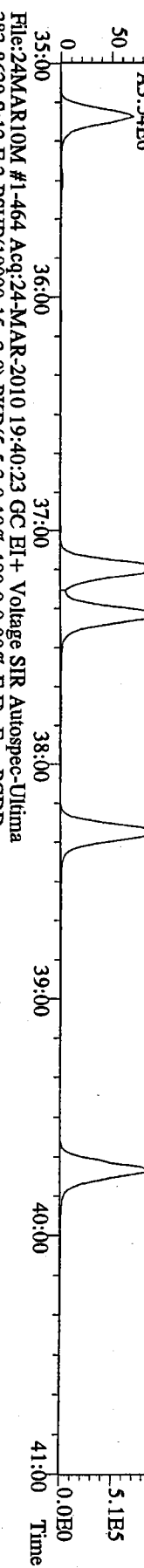
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 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



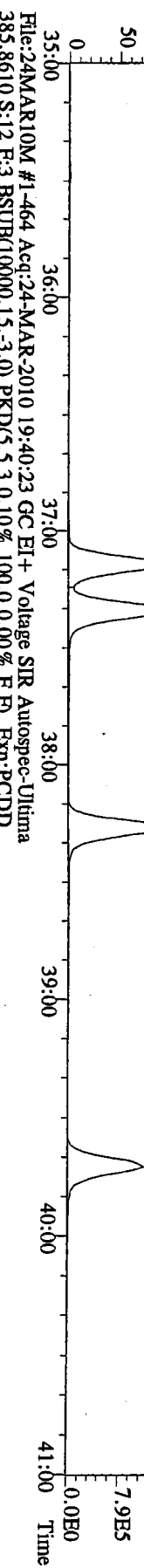
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 373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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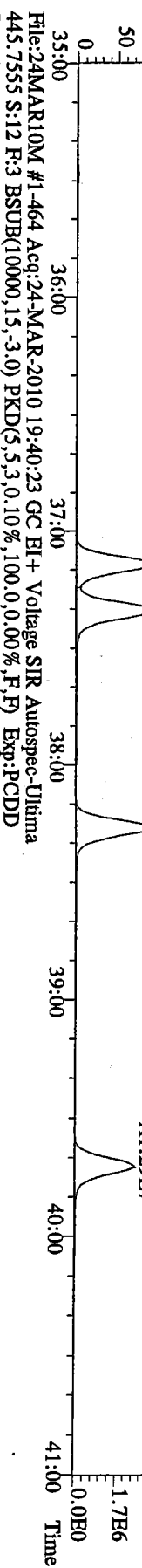
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 375.8178 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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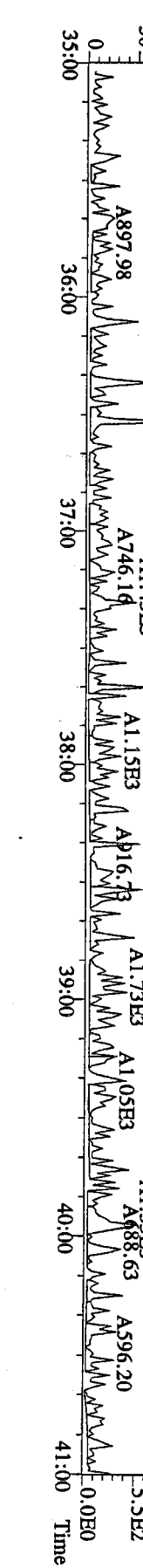
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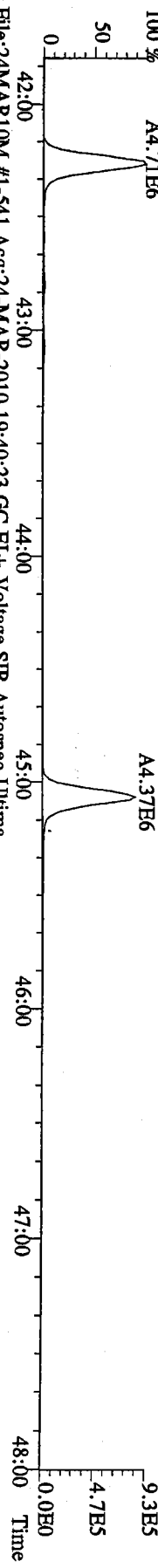
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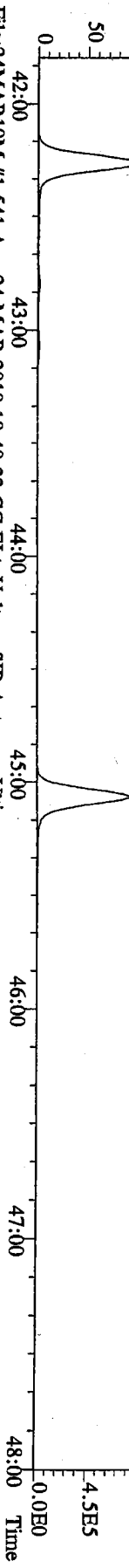
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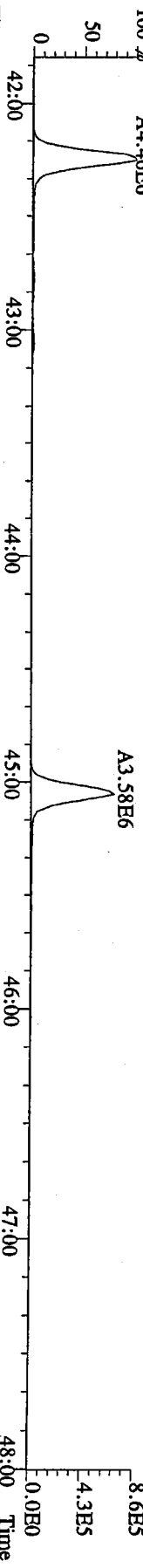
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 407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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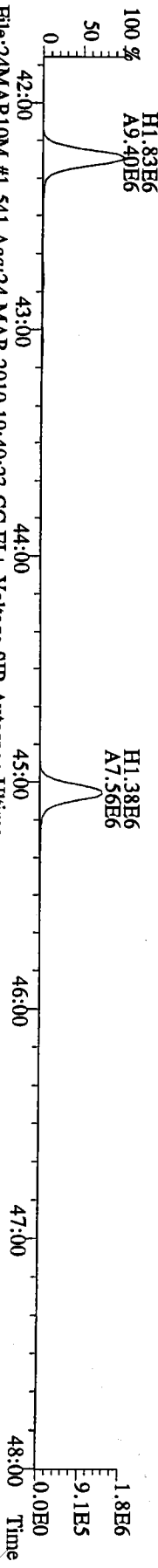
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 409.7788 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



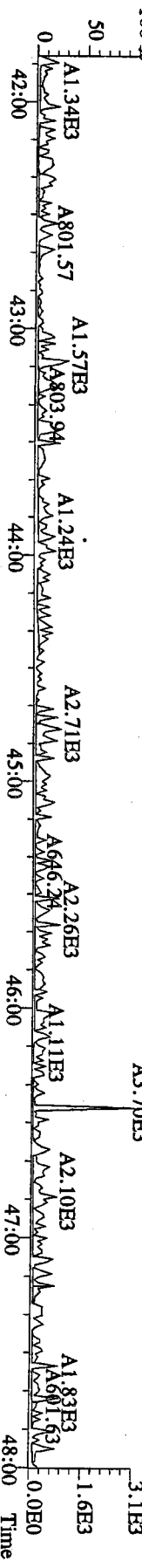
File:24MARI10M #1-541 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Utima
 417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



File:24MARI10M #1-541 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Utima
 419.8220 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:ST032410M2 File Text:Frontier Analytical Laboratory



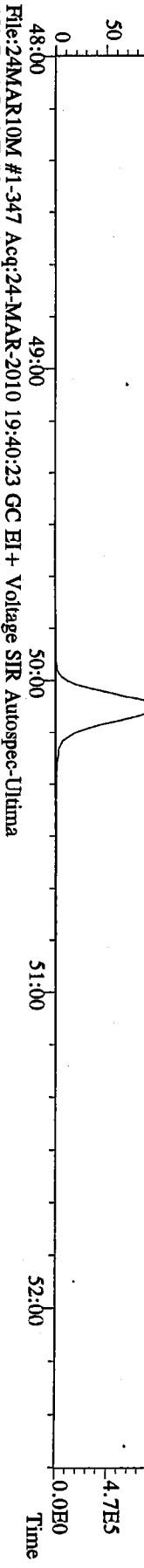
File:24MARI10M #1-541 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Utima
 479.7165 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



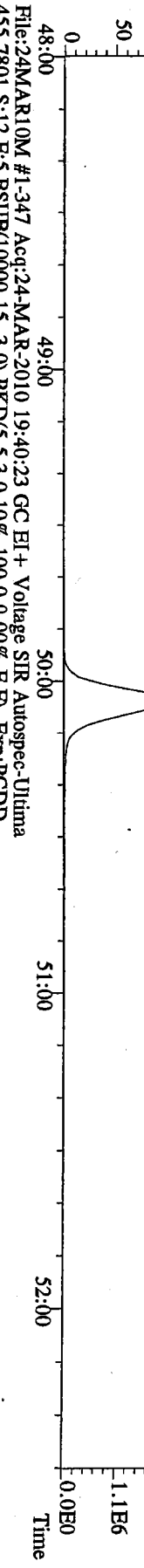
File:24MARI0M #1-347 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



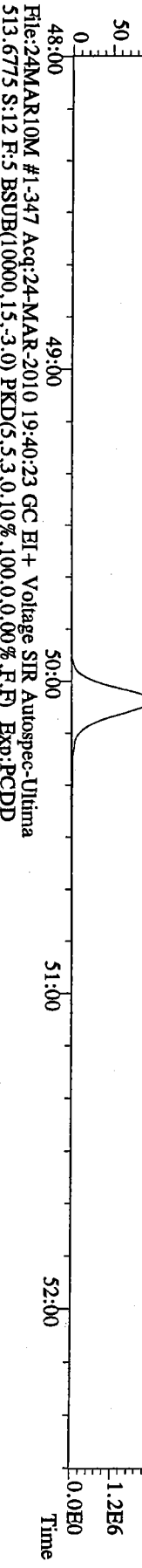
File:24MARI0M #1-347 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Ultima
 443.7398 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



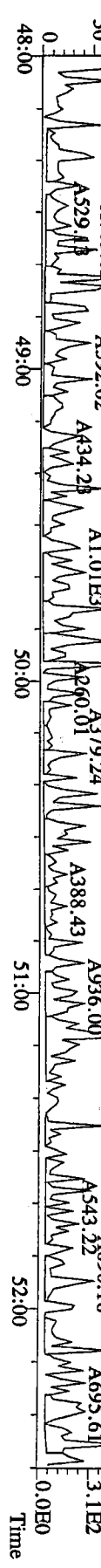
File:24MARI0M #1-347 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory



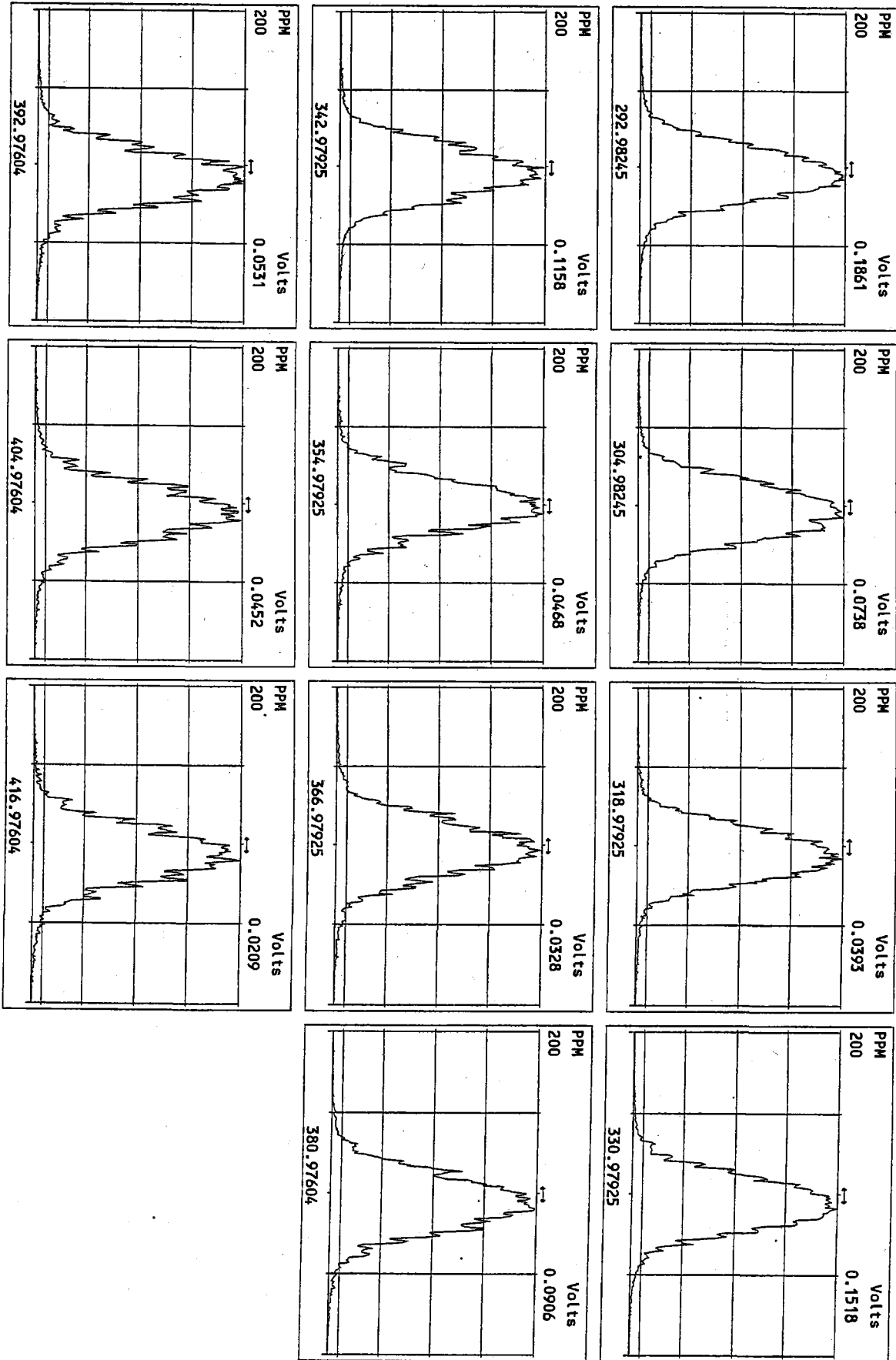
File:24MARI0M #1-347 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory

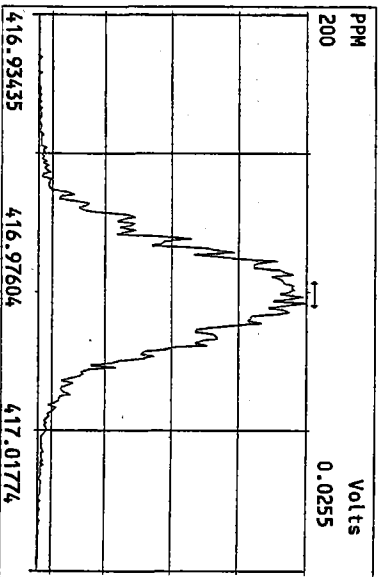
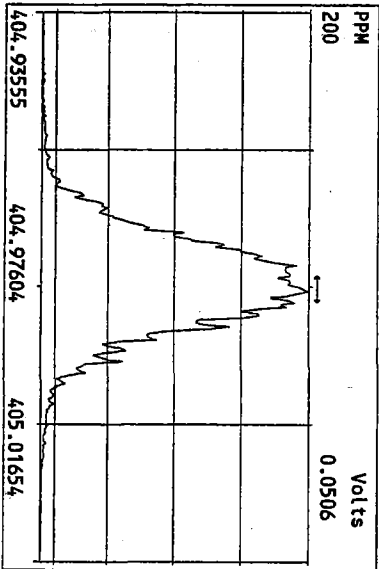
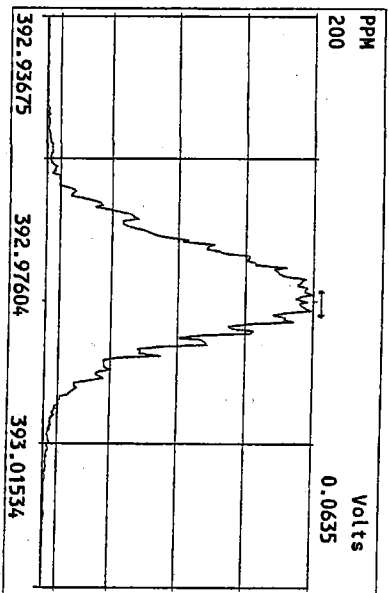
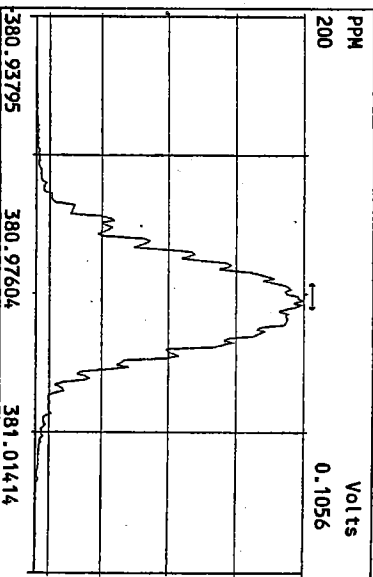
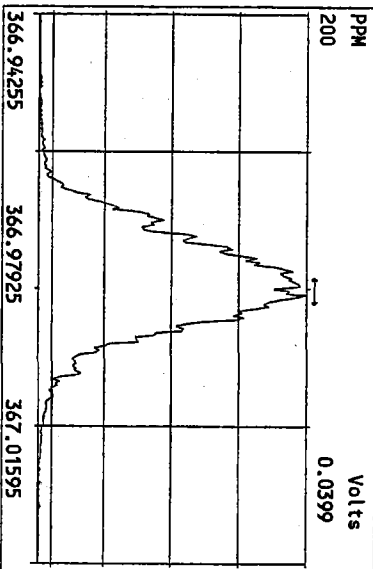
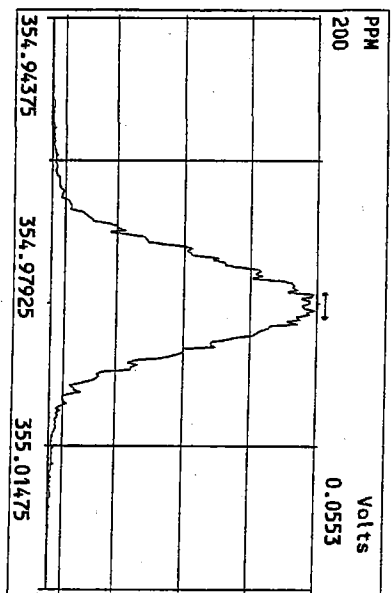
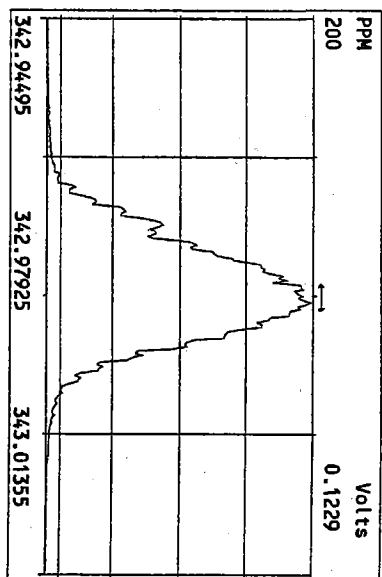
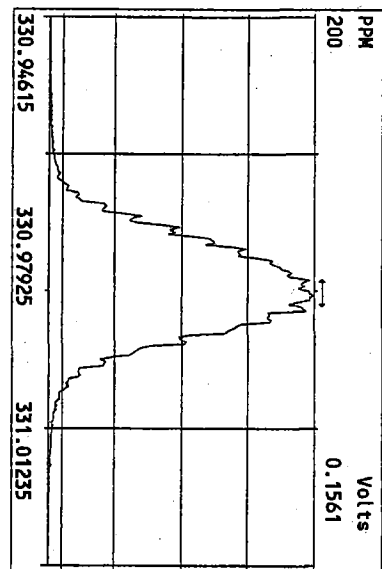


File:24MARI0M #1-347 Acq:24-MAR-2010 19:40:23 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:12 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M2 File Text:Frontier Analytical Laboratory

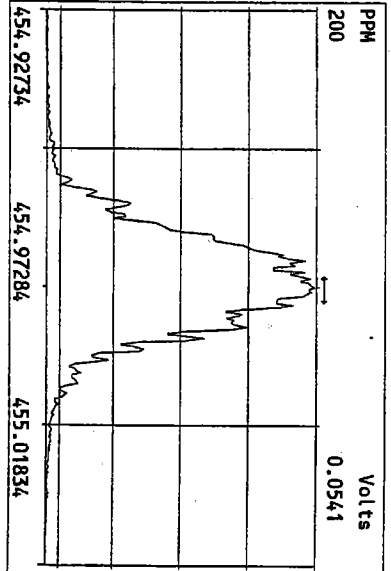
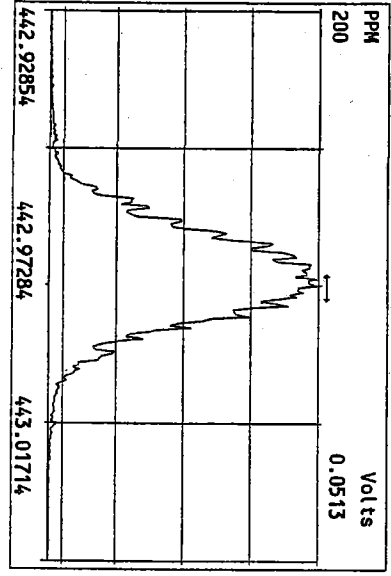
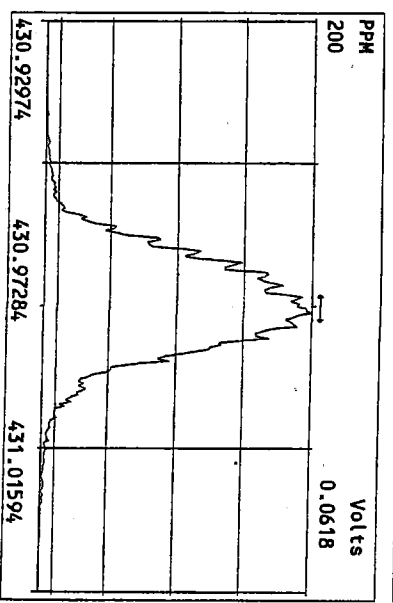
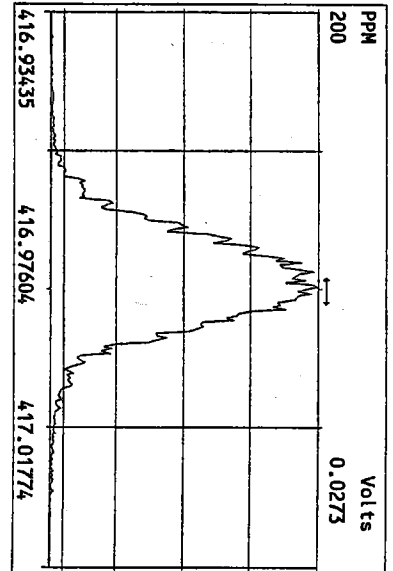
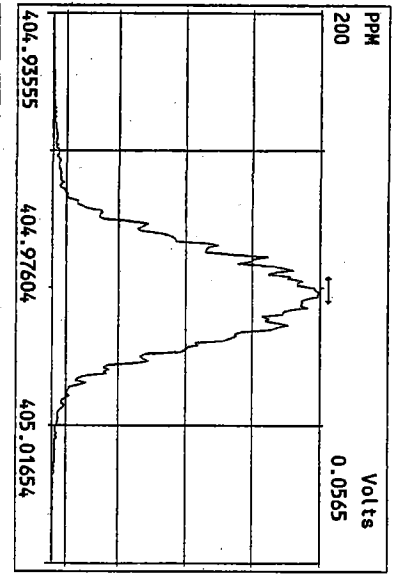
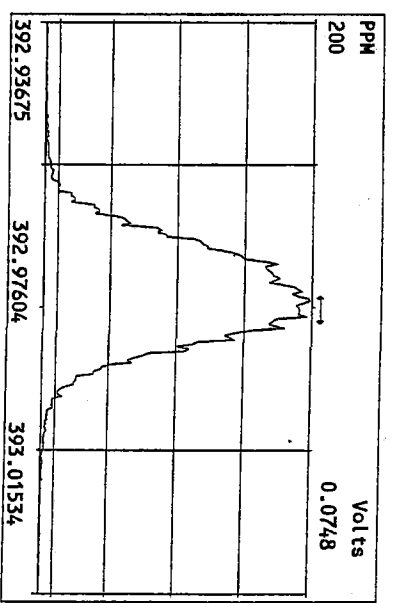
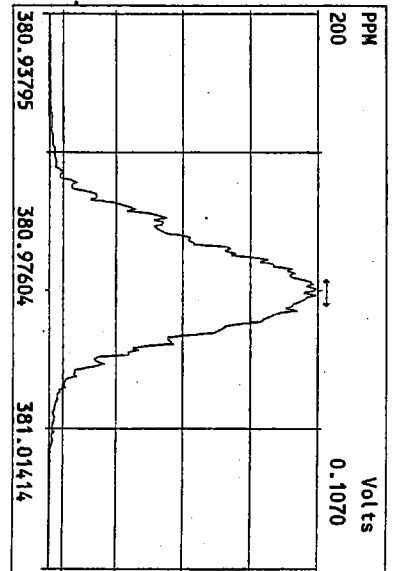
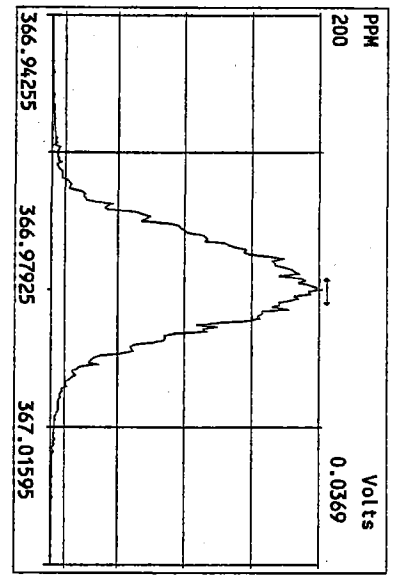


Peak Locate Examination: 25-MAR-2010:07:43 File: 24MAR10M_RES_CHECK
Experiment: PCD0 Function: 1 Reference: PFK

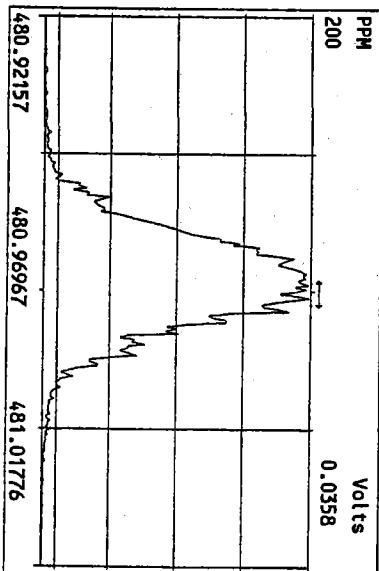
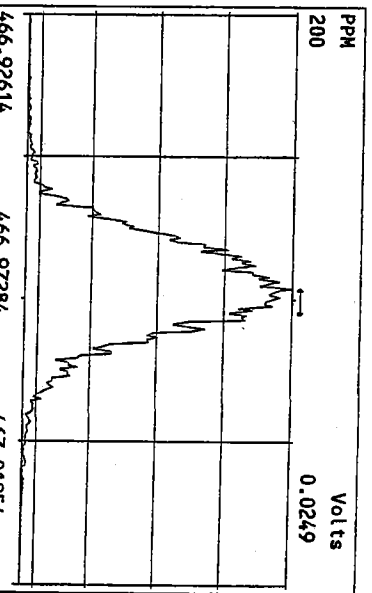
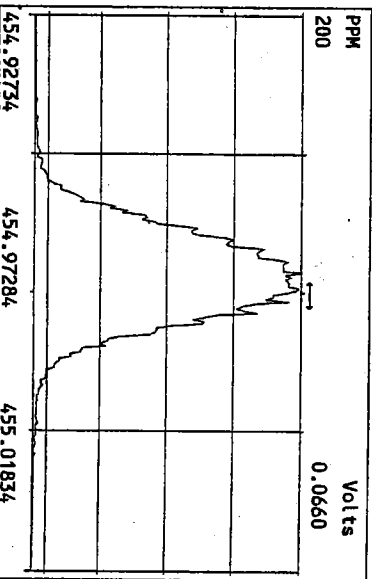
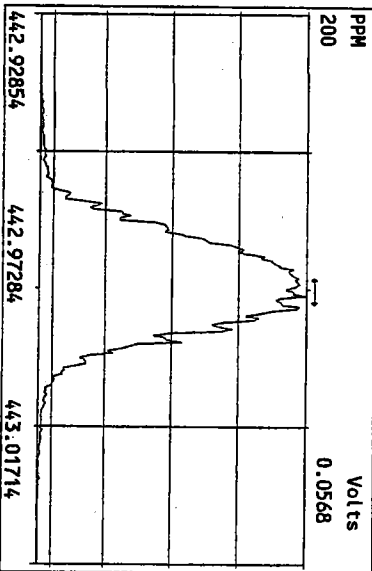
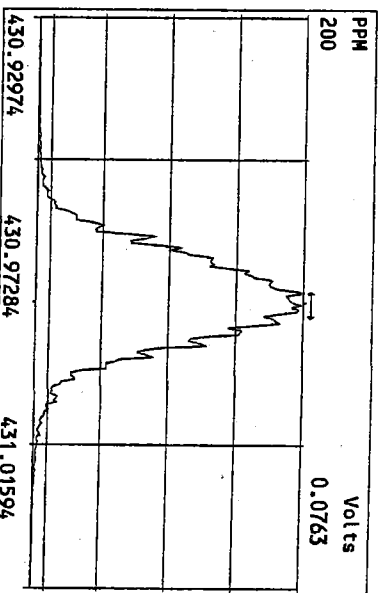
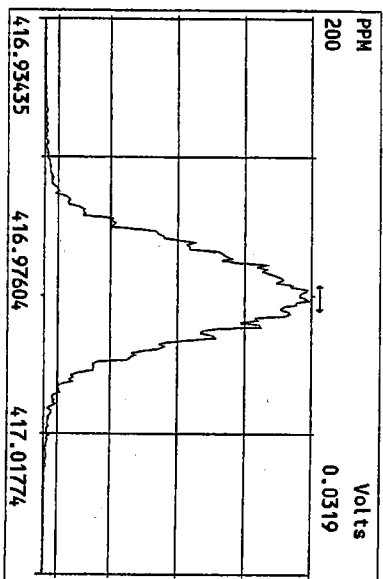
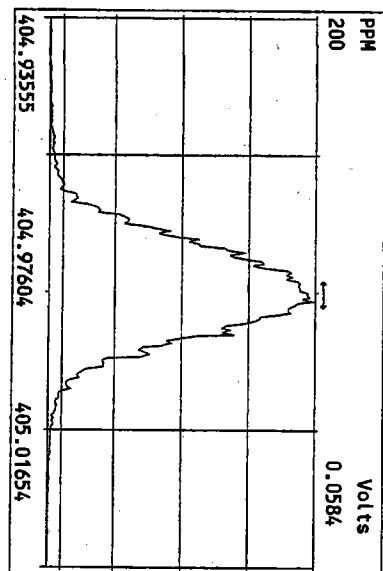




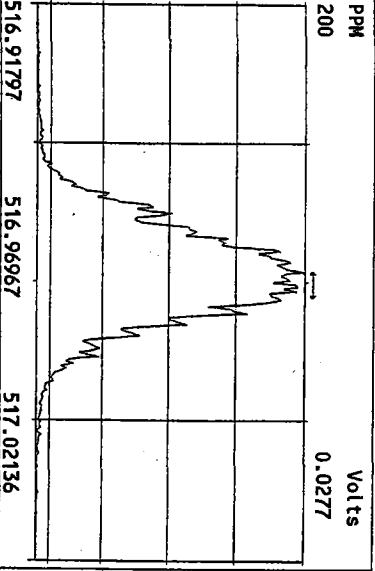
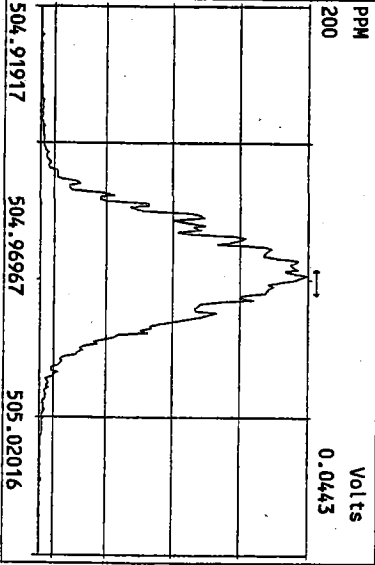
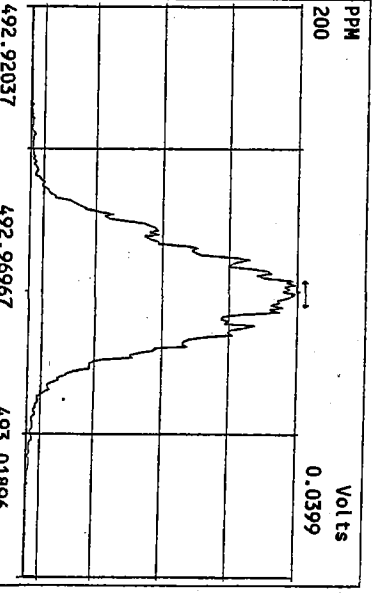
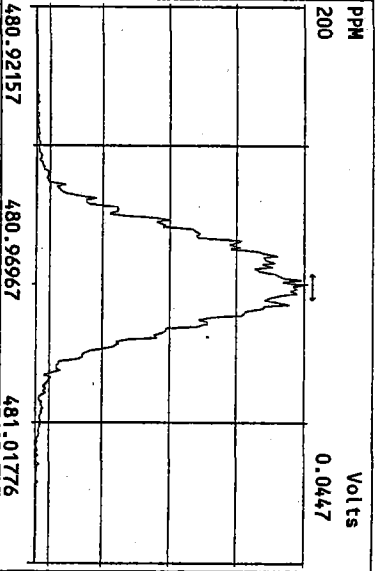
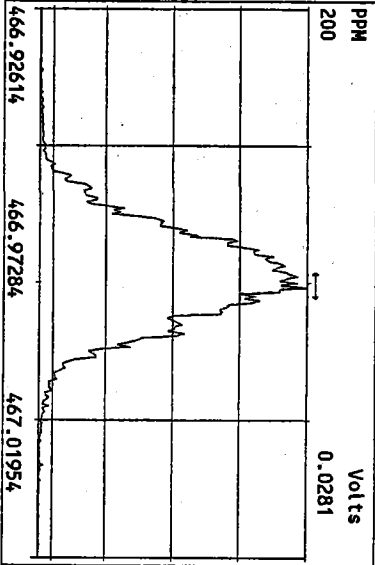
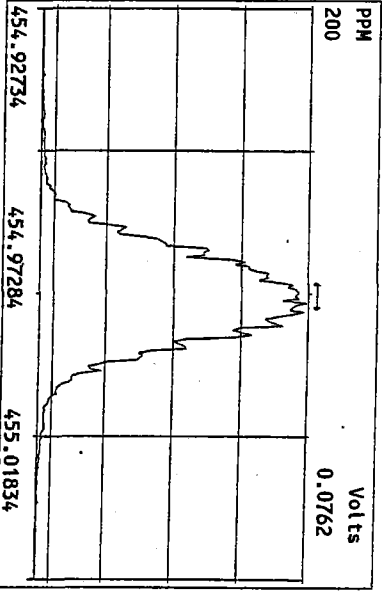
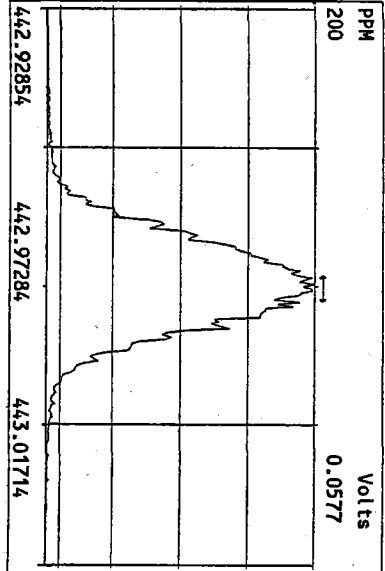
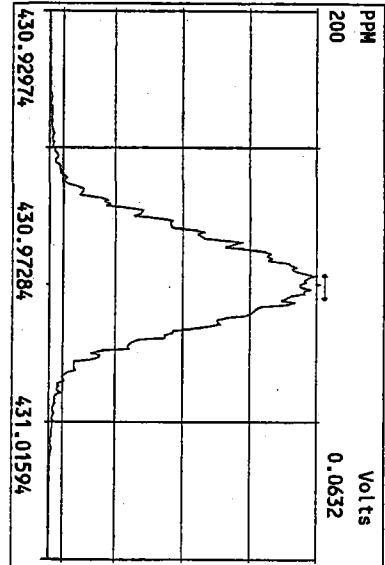
Peak Locate Examination:25-MAR-2010:07:44 File:24MAR10M_RES_CHECK
 Experiment:PCDD Function:3 Reference:PFK



Peak Locate Examination:25-MAR-2010:07:45 File:24MART0M_RES_CHECK
 Experiment::PCDD Function:4 Reference:PK



Peak Locate Examination:25-MAR-2010:07:45 File:24MAR10M_RES_CHECK
Experiment:PCDD Function:5 Reference:PFK



USEPA - ITD

FORM 4A

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 24MAR10M Sam:24

Analysis Date: 25-MAR-10 06:45:00

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	0.72	0.65-0.89	y	10.3	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.50	1.32-1.78	y	48.2	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.2	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	48.9	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	48.8	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.95	0.88-1.20	y	49.3	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.91	0.76-1.02	y	95.6	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.66	0.65-0.89	y	9.94	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	50.1	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	48.8	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.6	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	49.3	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	49.2	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.4	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	49.2	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.0	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	93.9	63.0 - 159 ✓

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

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

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

Analyst: Date: 3/25/10

USEPA - ITD

FORM 4B

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 11/18/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 24MAR10M Sam:24

Analysis Date: 25-MAR-10 06:45:00

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	97.9	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32-1.78	y	80.0	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	103	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.33	1.05-1.43	y	101	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	101	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.96	0.76-1.02	y	199	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	102	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	87.9	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	82.0	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.48	0.43-0.59	y	97.8	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	93.7	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	92.5	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.49	0.43-0.59	y	91.0	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.47	0.37-0.51	y	90.9	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	87.2	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.92	0.76-1.02	y	172	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.84	7.80 - 12.8 ✓

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

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

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

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

Analyst: Date: 3/25/10

000275 of 000302

QL58: 00791

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: 11/18/09
RT Window Data Filename: 24MAR10M Sam:24 Analysis Date: 25-MAR-10 Time: 06:45:00
DB-5 IS Data Filename: 24MAR10M Sam:24 Analysis Date: 25-MAR-10 Time: 06:45:00
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)	24:20 ✓	1,3,6,8-TCDF (F)	22:58 ✓
1,2,8,9-TCDD (L)	28:15 ✓	1,2,8,9-TCDF (L)	28:28 ✓
1,2,4,7,9-PeCDD (F)	30:11 ✓	1,3,4,6,8-PeCDF (F)	28:22 ✓
1,2,3,8,9-PeCDD (L)	33:44 ✓	1,2,3,8,9-PeCDF (L)	34:08 ✓
1,2,4,6,7,9-HxCDD (F)	36:05 ✓	1,2,3,4,6,8-HxCDF (F)	35:11 ✓
1,2,3,7,8,9-HxCDD (L)	39:07 ✓	1,2,3,7,8,9-HxCDF (L)	39:41 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:45 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:13 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:08 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:01 ✓

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

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst: *AE*

Date: 3/25/10

000276 of 000302

QL58 : 00792

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 25-MAR-10 06:45:00 CS3 or VER Data Filename: 24MAR10M Sam:24

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002✓
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003✓
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002✓
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002✓
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052✓
13C-2,3,7,8-TCDD		1.021	0.976-1.043✓
13C-2,3,7,8-TCDF		0.993	0.923-1.103✓
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567✓
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203✓
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303✓

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

Analyst: Date: 3/25/10

USEPA - ITD

FORM 68
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.: Init. Cal. Date: 11/18/09

Instrument ID: FAL3 GC Column ID: DB5

Analysis Date: 25-MAR-10 06:45:00 CS3 or VER Data Filename: 24MAR10M Sam:24

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001 ✓
OCDD	13C-OCDD	1.000	0.999-1.001 ✓
OCDF	13C-OCDF	1.001	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF		1.014	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154 ✓
13C-OCDD		1.270	1.032-1.311 ✓
13C-OCDF		1.279	1.000-1.311 ✓

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

Analyst: Date: 3/25/10

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QL58 : 00794

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		112 DL	
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	2.28e+06	0.72 y	27:19	1.02	10.3		2.50	-	*	
1,2,3,7,8-PeCDD	8.91e+06	1.50 y	33:09	0.96	48.2		2.50	-	*	
1,2,3,4,7,8-HxCDD	8.82e+06	1.28 y	38:31	1.37	50.2		2.50	-	*	
1,2,3,6,7,8-HxCDD	7.81e+06	1.27 y	38:41	1.34	48.9		2.50	-	*	
1,2,3,7,8,9-HxCDD	8.23e+06	1.27 y	39:07	1.37	48.8		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	6.57e+06	0.95 y	44:08	1.17	49.3		2.50	-	*	
OCDD	9.72e+06	0.91 y	49:40	1.21	95.6		2.50	-	*	
2,3,7,8-TCDF	4.22e+06	0.66 y	26:33	1.29	9.94		2.50	-	*	
1,2,3,7,8-PeCDF	1.27e+07	1.63 y	31:25	0.89	50.1		2.50	-	*	
2,3,4,7,8-PeCDF	1.14e+07	1.59 y	32:43	0.91	48.8		2.50	-	*	
1,2,3,4,7,8-HxCDF	1.03e+07	1.23 y	37:07	1.00	48.6		2.50	-	*	
1,2,3,6,7,8-HxCDF	1.07e+07	1.26 y	37:20	0.92	49.3		2.50	-	*	
2,3,4,6,7,8-HxCDF	9.82e+06	1.24 y	38:15	0.99	49.2		2.50	-	*	
1,2,3,7,8,9-HxCDF	9.11e+06	1.24 y	39:41	1.09	48.4		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	8.42e+06	1.01 y	42:13	1.36	49.2		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	7.18e+06	1.02 y	45:01	1.61	48.0		2.50	-	*	
OCDF	1.01e+07	0.91 y	50:03	0.84	93.9		2.50	-	*	
13C-2,3,7,8-TCDD	2.18e+07	0.73 y	27:17	0.94	97.9				Rec 97.9	
13C-1,2,3,7,8-PeCDD	1.92e+07	1.59 y	33:08	1.02	80.0				80.0	
13C-1,2,3,4,7,8-HxCDD	1.28e+07	1.31 y	38:30	0.98	103				103	
13C-1,2,3,6,7,8-HxCDD	1.19e+07	1.33 y	38:39	0.94	101				101	
13C-1,2,3,4,6,7,8-HpCDD	1.14e+07	1.03 y	44:06	0.90	101				101	
13C-OCDD	1.68e+07	0.96 y	49:40	0.67	199				99.7	
13C-2,3,7,8-TCDF	3.30e+07	0.79 y	26:32	0.88	102				102	
13C-1,2,3,7,8-PeCDF	2.85e+07	1.60 y	31:24	0.88	87.9				87.9	
13C-2,3,4,7,8-PeCDF	2.58e+07	1.58 y	32:42	0.85	82.0				82.0	
13C-1,2,3,4,7,8-HxCDF	2.12e+07	0.48 y	37:06	1.72	97.8				97.8	
13C-1,2,3,6,7,8-HxCDF	2.37e+07	0.49 y	37:18	2.00	93.7				93.7	
13C-2,3,4,6,7,8-HxCDF	2.03e+07	0.49 y	38:14	1.74	92.5				92.5	
13C-1,2,3,7,8,9-HxCDF	1.73e+07	0.49 y	39:40	1.51	91.0				91.0	
13C-1,2,3,4,6,7,8-HpCDF	1.26e+07	0.47 y	42:13	1.10	90.9				90.9	
13C-1,2,3,4,7,8,9-HpCDF	9.31e+06	0.47 y	45:01	0.85	87.2				87.2	
13C-OCDF	2.55e+07	0.92 y	50:01	1.17	172				86.1	
37Cl-2,3,7,8-TCDD	2.26e+06		27:19	0.97	9.84				98.4	
13C-1,2,3,4-TCDD	2.36e+07	0.73 y	26:44	-	90.2					
13C-1,2,3,4-TCDF	3.70e+07	0.80 y	25:28	-	80.1					
13C-1,2,3,7,8,9-HxCDD	1.26e+07	1.33 y	39:06	-	61.5					
Total Tetra-Dioxins	1.22e+07		24:20	1.02	55.1		2.50	-	*	18
Total Penta-Dioxins	1.99e+07		30:11	0.96	108		2.50	-	*	16
Total Hexa-Dioxins	2.86e+07		36:05	1.36	170		2.50	-	*	20
Total Hepta-Dioxins	1.42e+07		42:45	1.17	107		2.50	-	*	29
Total Tetra-Furans	1.80e+07		22:58	1.29	42.4		2.50	-	*	16
1st Fn. Tot Penta-Furans	1.63e+07		28:22	0.90	66.8		2.50	-	*	1
Total Penta-Furans	3.44e+07		30:07	0.90	141		2.50	-	*	208
Total Hexa-Furans	4.71e+07		35:11	0.99	231		2.50	-	*	18
Total Hepta-Furans	1.58e+07		42:13	1.47	98.7		2.50	-	*	12

Analyst: Date: 3/25/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:24MAR10M

Instrument: FAL3

GC: DB5

Experiment:PCDD

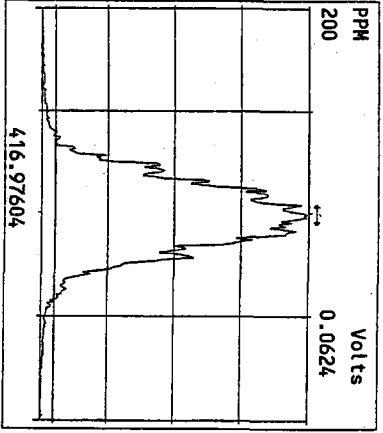
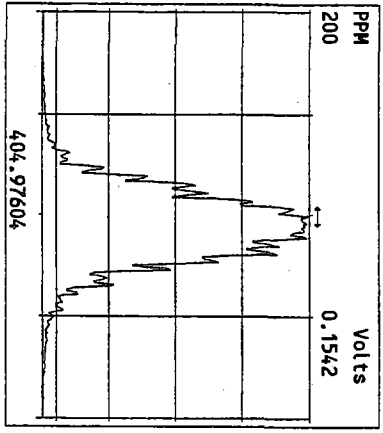
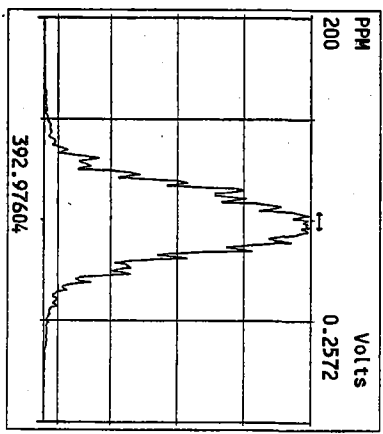
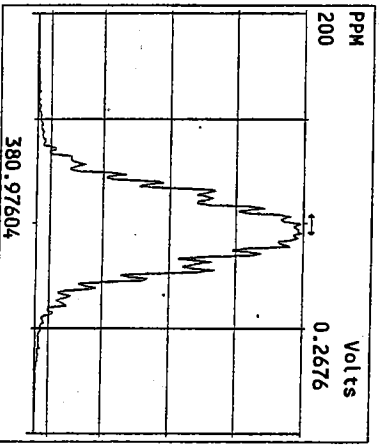
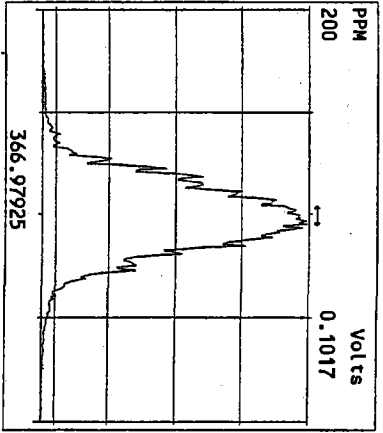
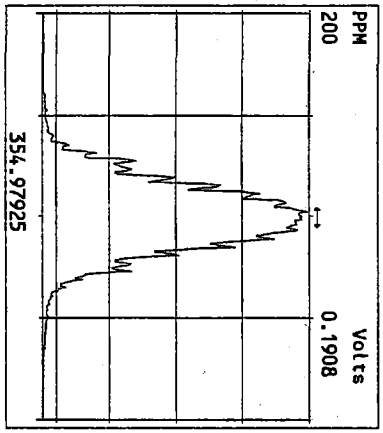
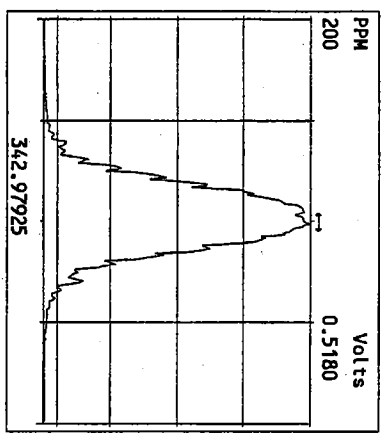
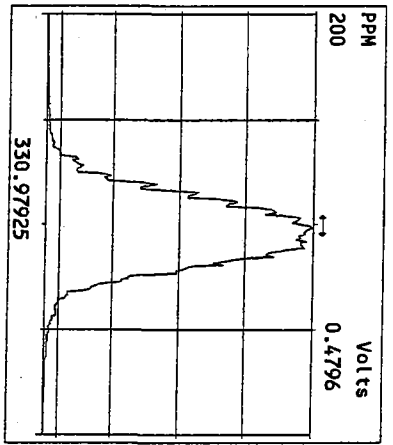
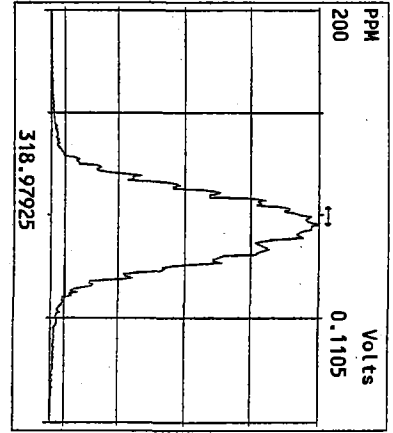
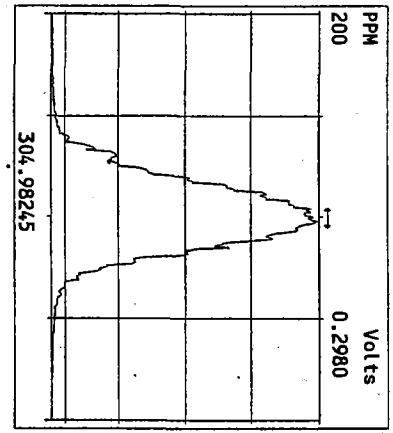
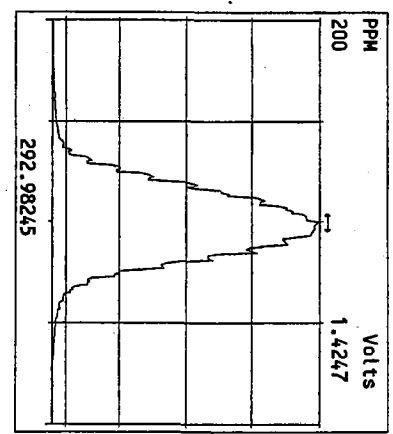
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24MAR10M 4	6028-001-0001-SA	0030508-01	24-MAR-10 12:17:21	ST032410M1	ST032410M2	TC
24MAR10M 5	6023-001-0001-SA	E-001D (Final EFF)	24-MAR-10 13:12:43	ST032410M1	ST032410M2	TC
24MAR10M 6	6005-001-0001-SA	CB31A022410Comp	24-MAR-10 14:08:02	ST032410M1	ST032410M2	TC
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24MAR10M 10	6043-001-0001-SA	RRSW	24-MAR-10 17:49:37	ST032410M1	ST032410M2	TC
24MAR10M 11	SB032410M1	Solvent Blank	24-MAR-10 18:45:00	ST032410M1	ST032410M2	TC
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24MAR10M 15	6035-001-0001-SA	RM-51172 LOT-818833	24-MAR-10 22:26:38	ST032410M2	ST032410M3	TC
24MAR10M 16	6038-001-0001-SA	RM #51173 #816790	24-MAR-10 23:22:03	ST032410M2	ST032410M3	TC
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24MAR10M 21	SB032410M2	Solvent Blank	25-MAR-10 03:58:56	ST032410M2	ST032410M3	TC
24MAR10M 22	SB032410M3	Solvent Blank	25-MAR-10 04:54:19	ST032410M2	ST032410M3	TC
24MAR10M 23	SB032410M4	Solvent Blank	25-MAR-10 05:49:42	ST032410M2	ST032410M3	TC
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[Handwritten signature] 3/25/10

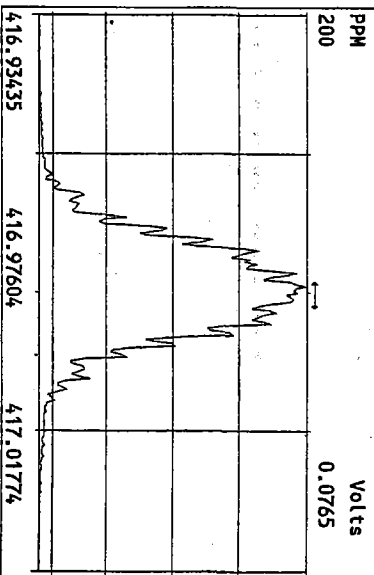
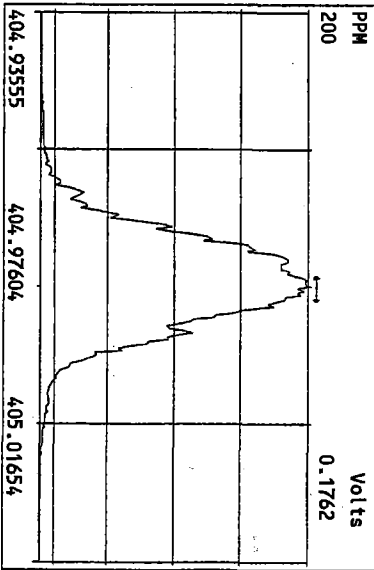
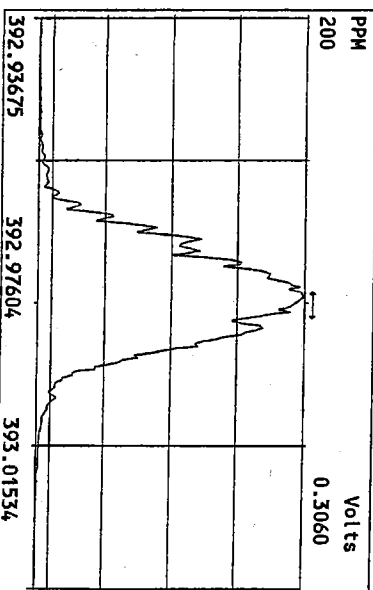
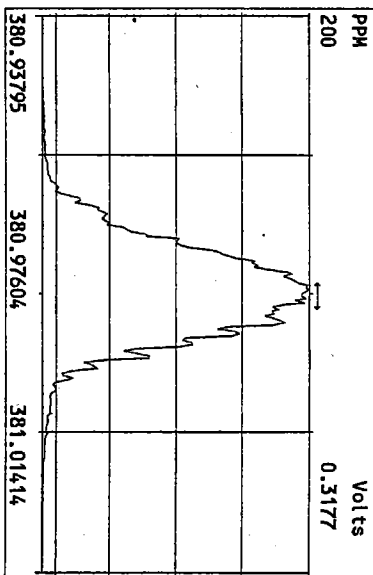
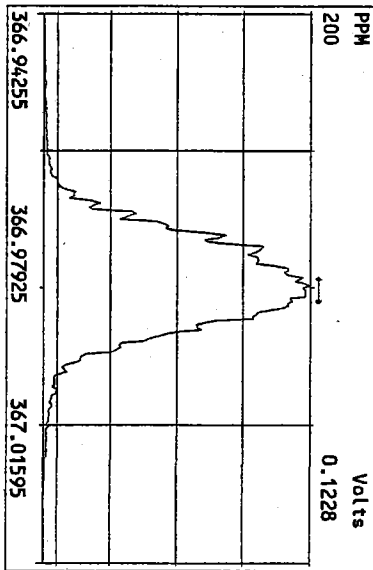
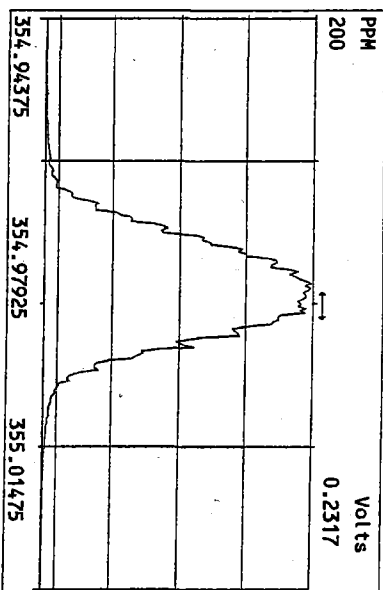
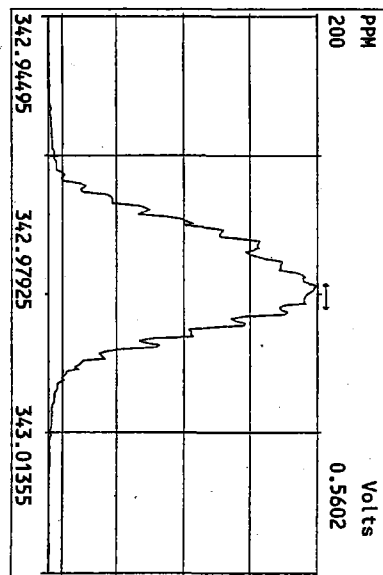
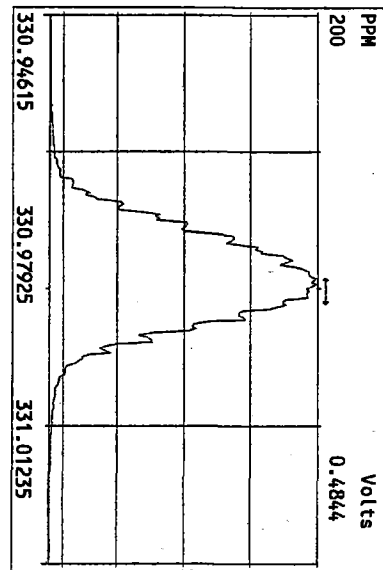
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Date: _____

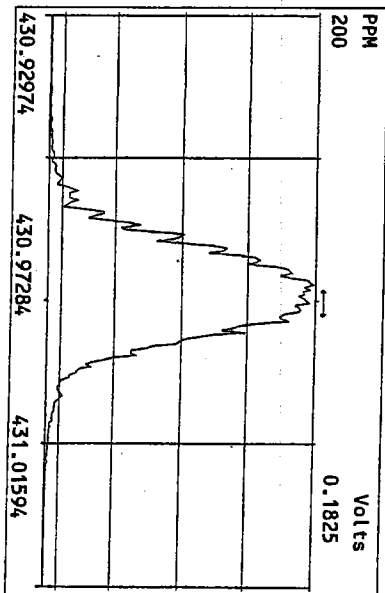
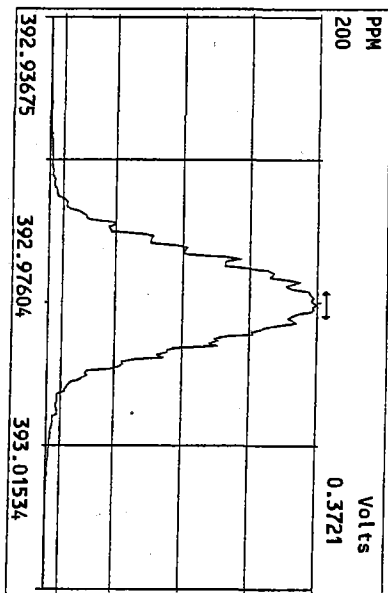
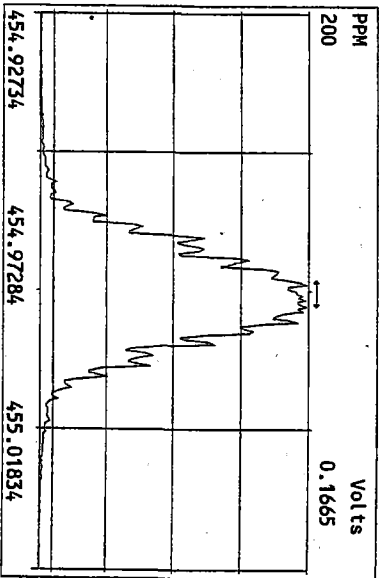
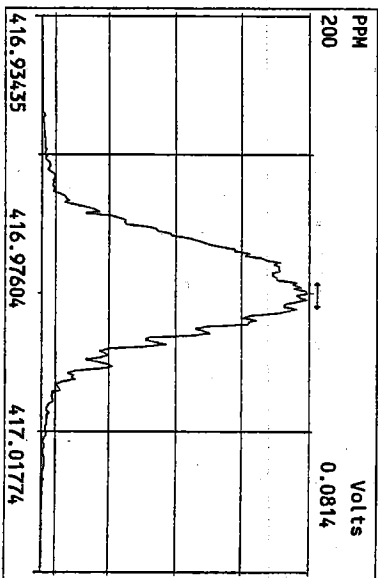
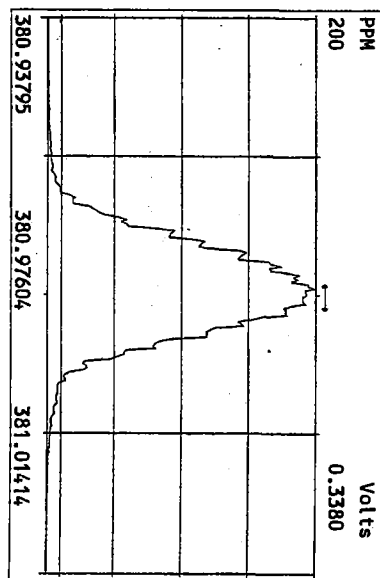
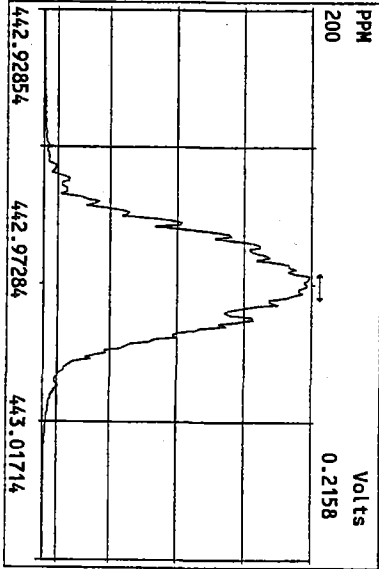
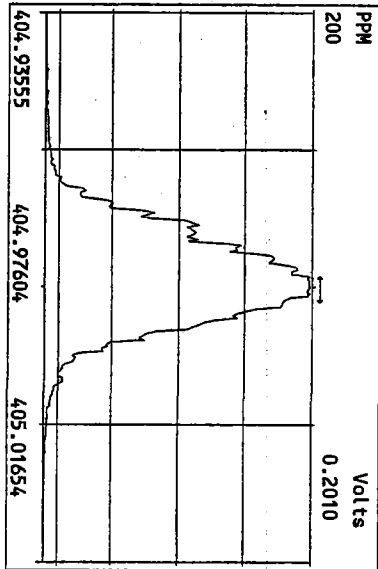
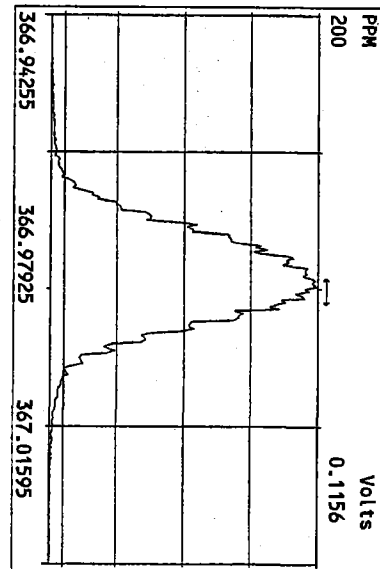
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Experiment:PCDD Function:1 Reference:PFK



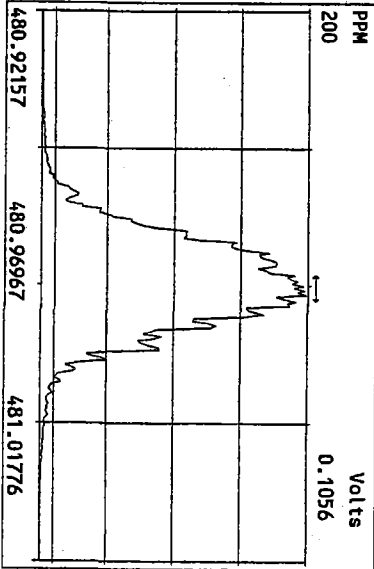
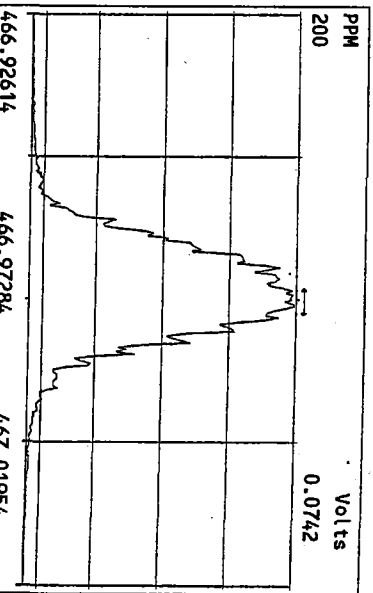
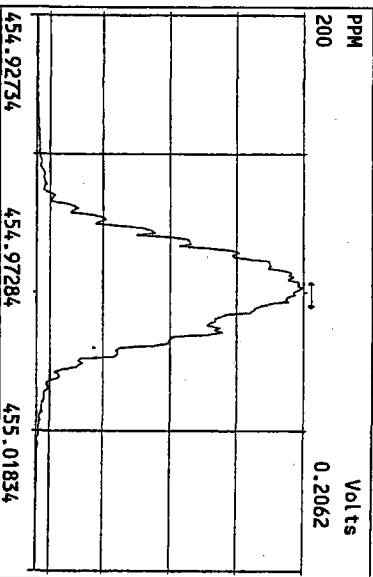
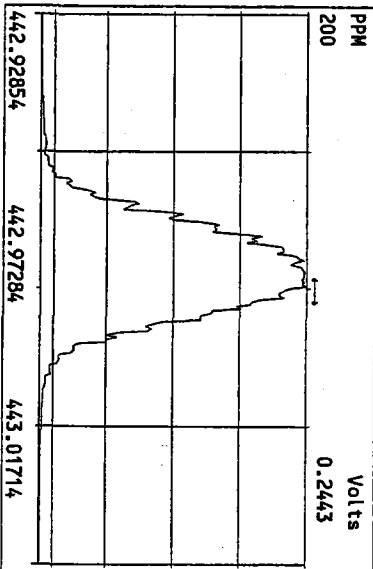
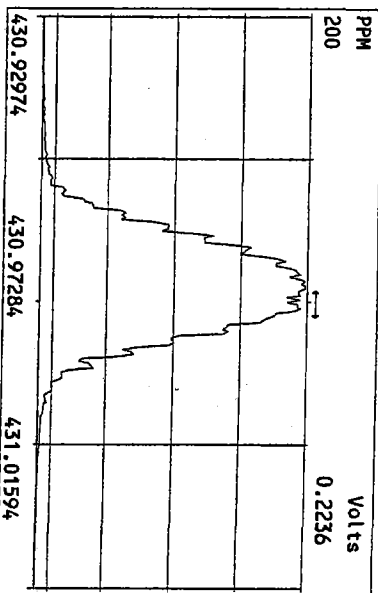
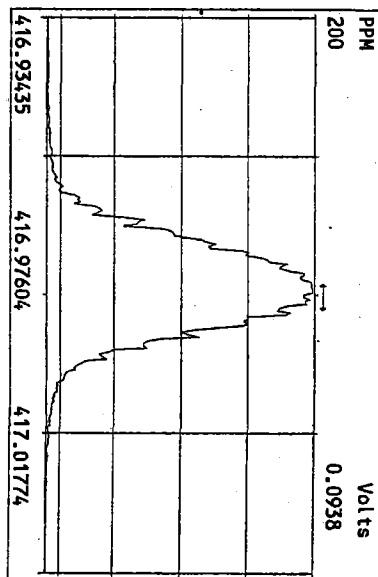
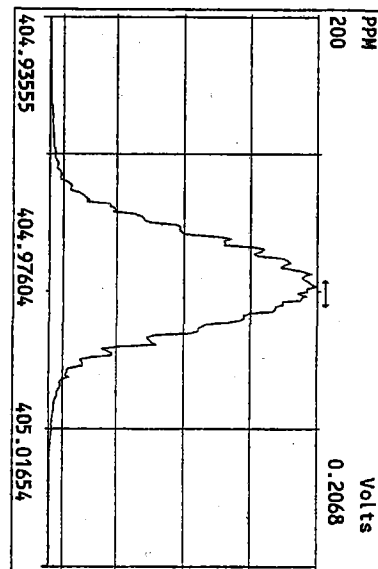
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Experiment::PCDD Function:2 Reference:PK

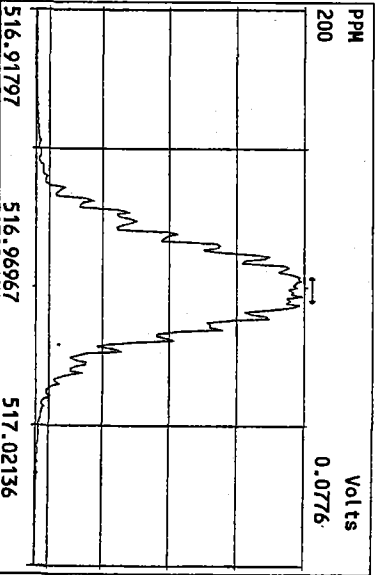
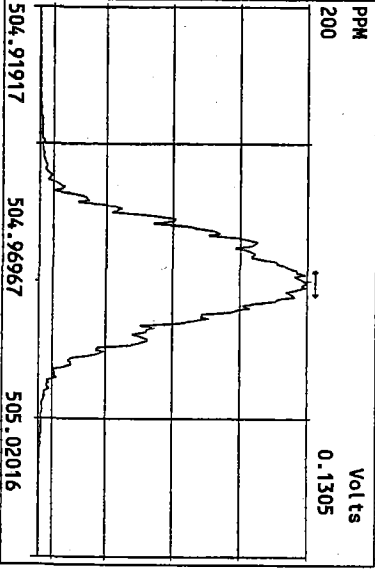
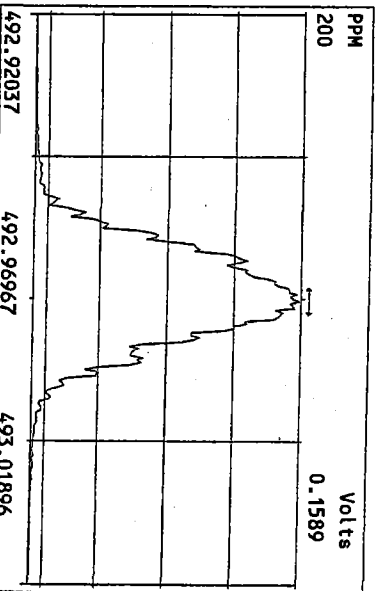
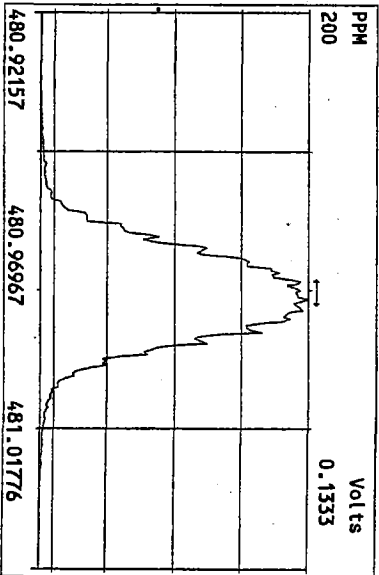
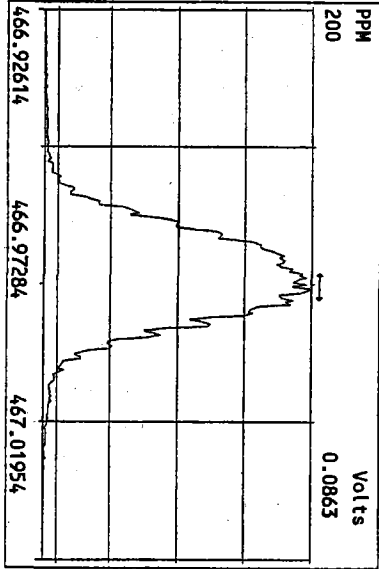
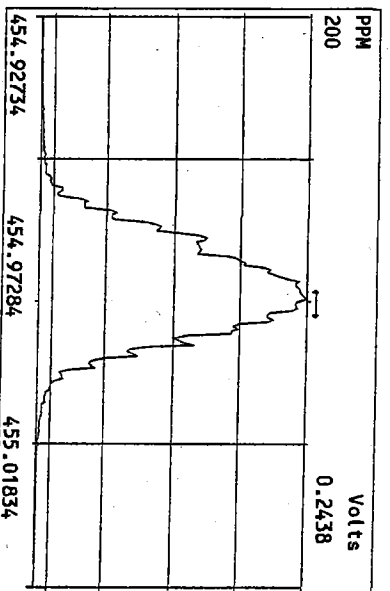
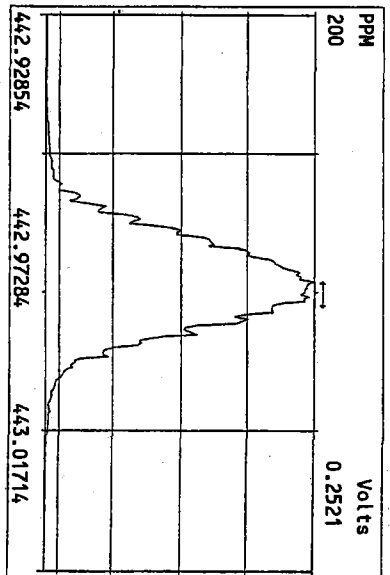
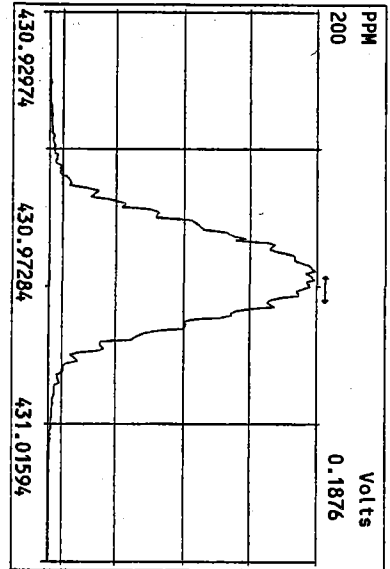


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 Experiment:PCDD Function:3 Reference:PFK

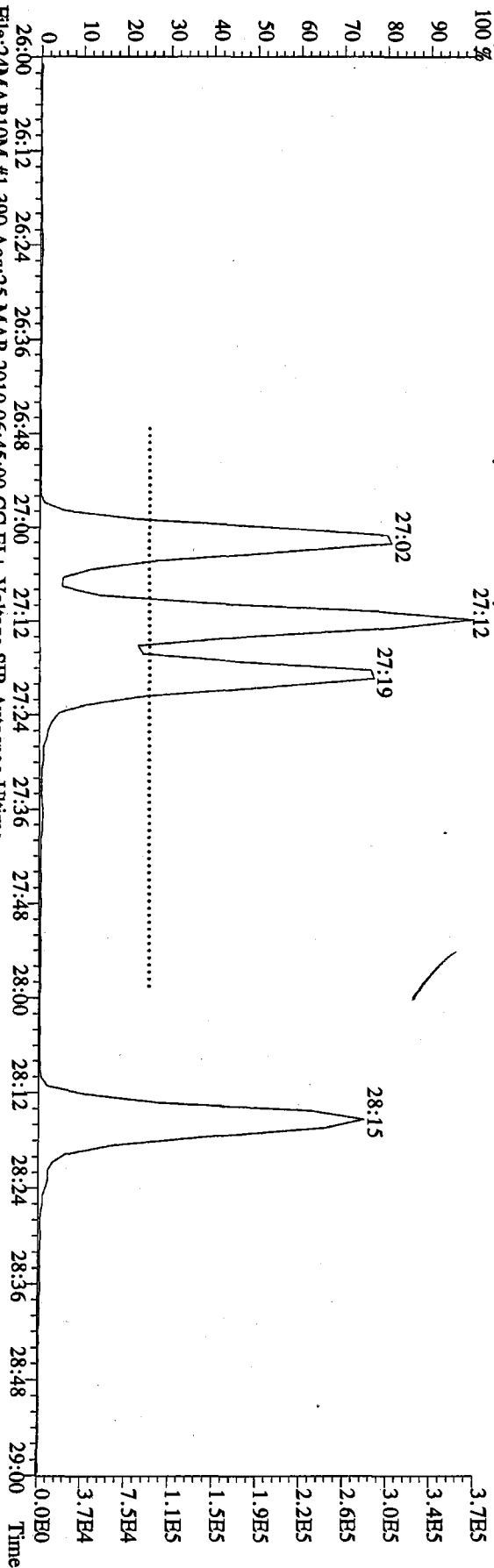


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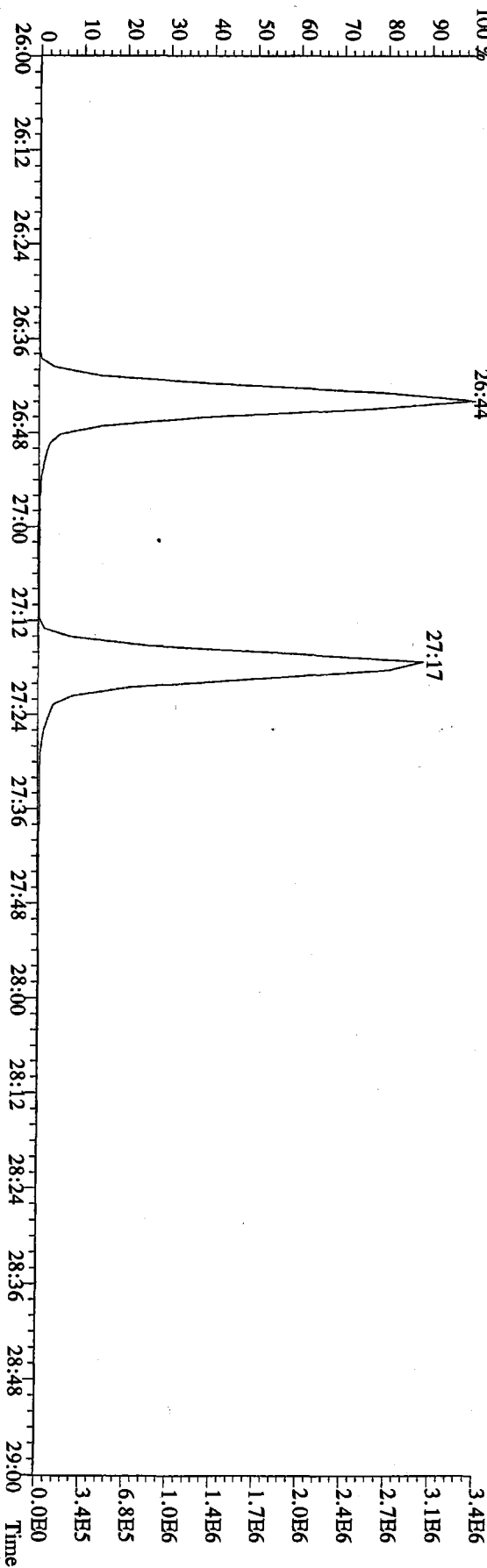




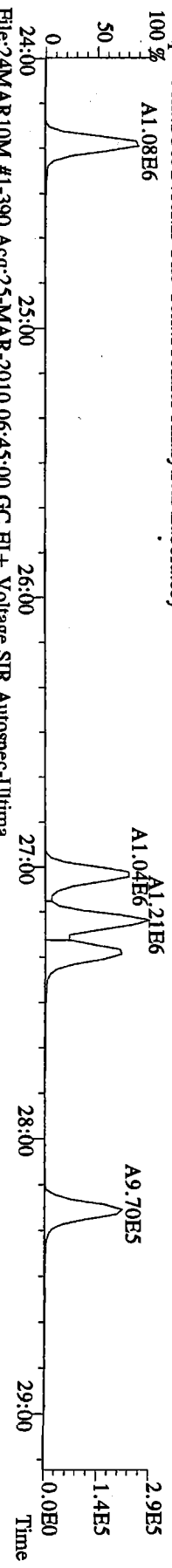
File:24MAR10M #1-390 Acq:25-MAR-2010 06:45:00 GC EI + Voltage SIR Autospec-Ultima
321.8936 S:24 Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



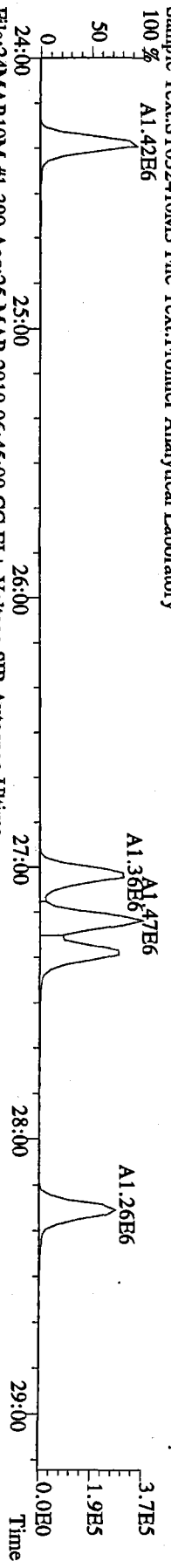
File:24MAR10M #1-390 Acq:25-MAR-2010 06:45:00 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:24 Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



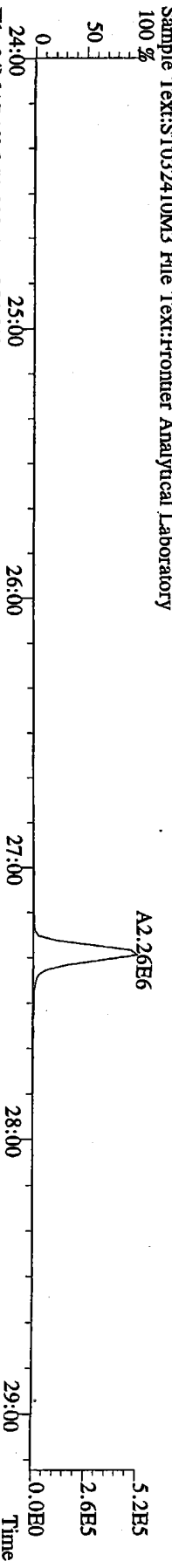
File:24MAR10M #1-390 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 319.8965 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



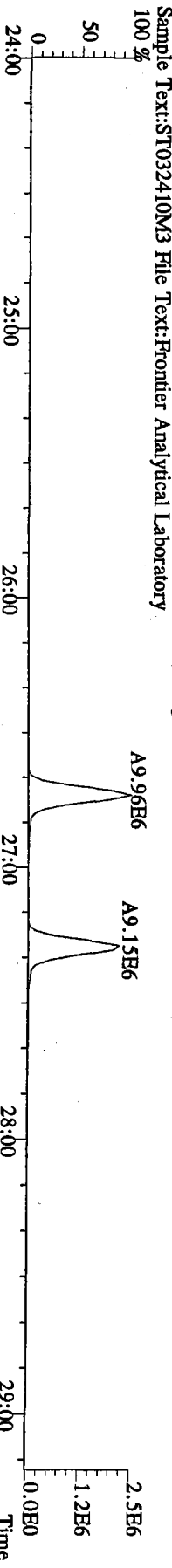
File:24MAR10M #1-390 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 321.8936 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



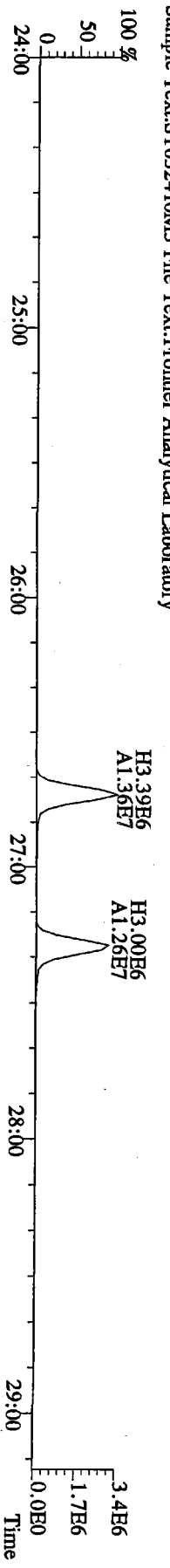
File:24MAR10M #1-390 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 327.8847 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



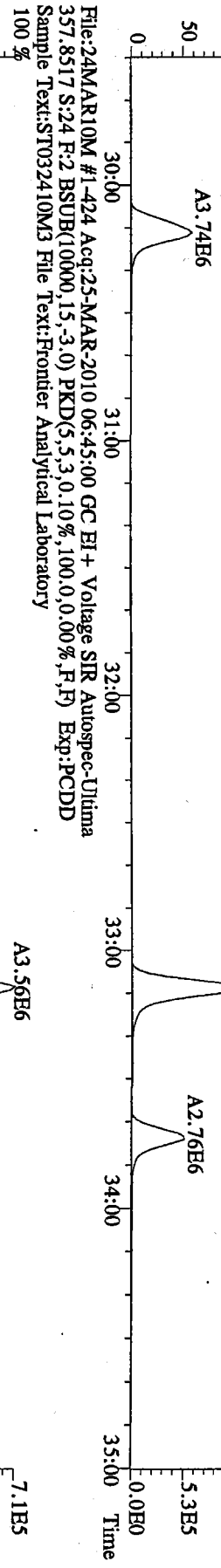
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 331.9368 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



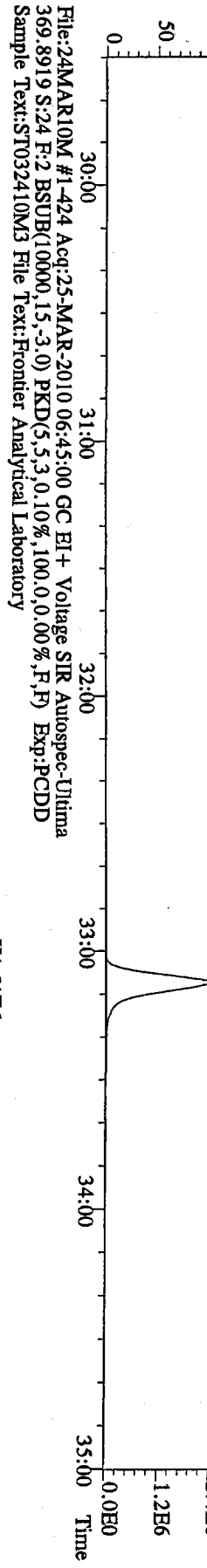
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 333.9339 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



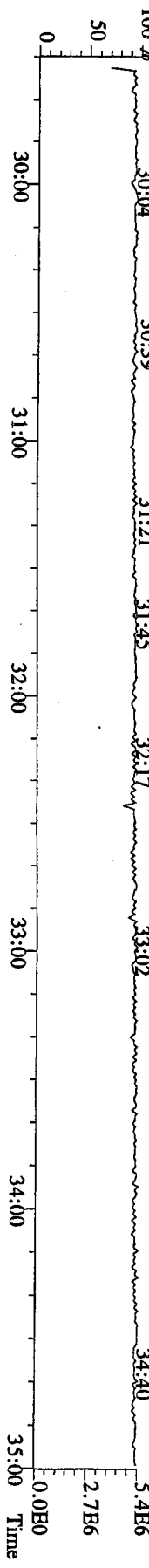
File:24MAR10M #1-424 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 355.8546 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



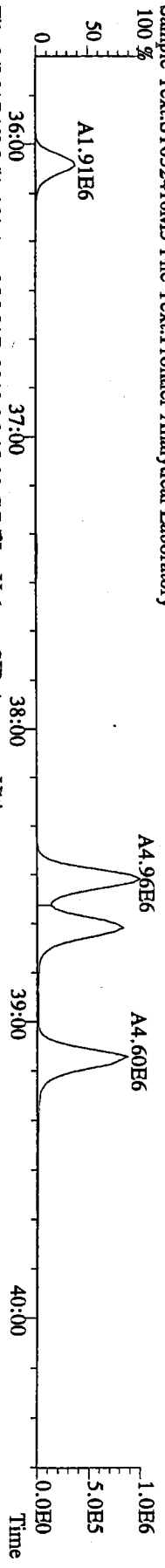
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 367.8949 S:24 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



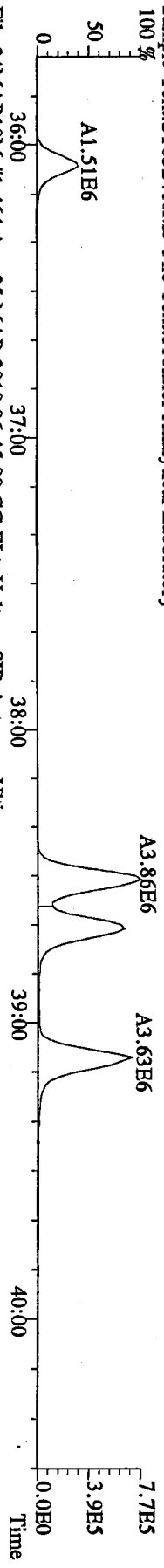
File:24MAR10M #1-424 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 366.9792 S:24 F:2 Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



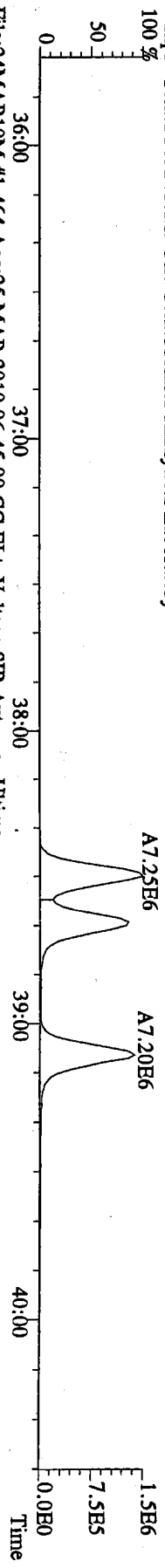
File:24MAR10M #1-464 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 389.8156 S:24 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



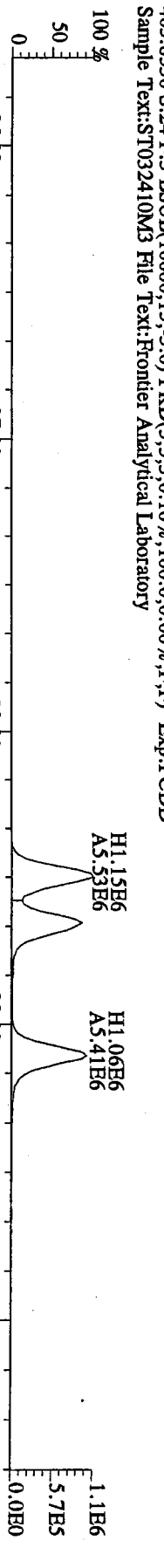
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 391.8127 S:24 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



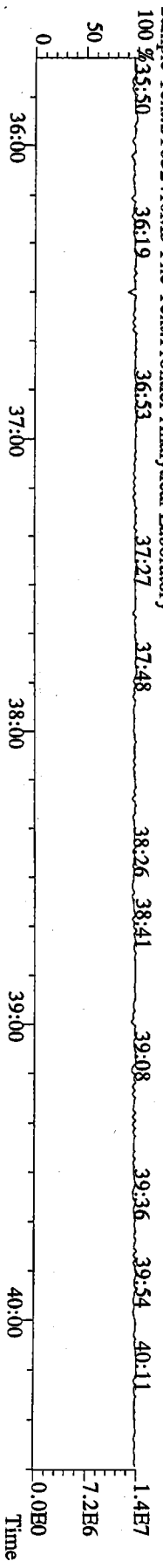
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 401.8559 S:24 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



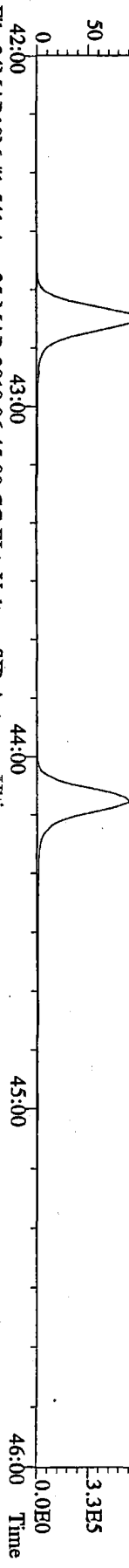
File:24MAR10M #1-464 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 403.8530 S:24 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



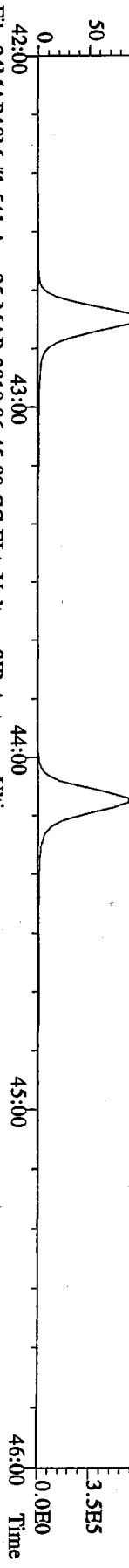
File:24MAR10M #1-464 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 380.9760 S:24 F:3 Exp:PCDD
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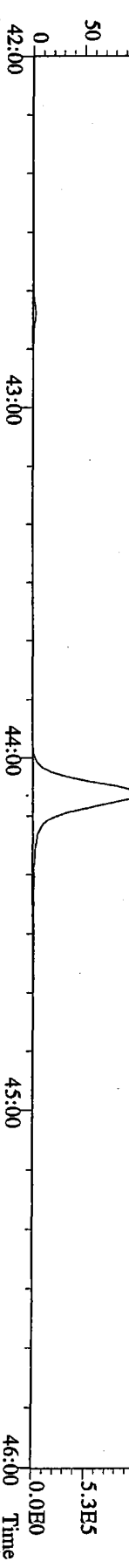
File:24MARI10M #1-541 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



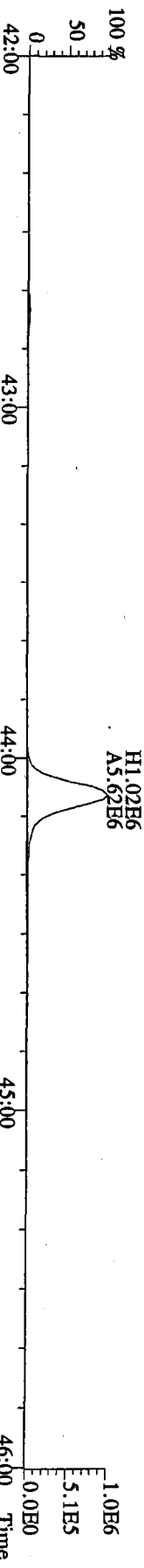
File:24MARI10M #1-541 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 425.7737 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



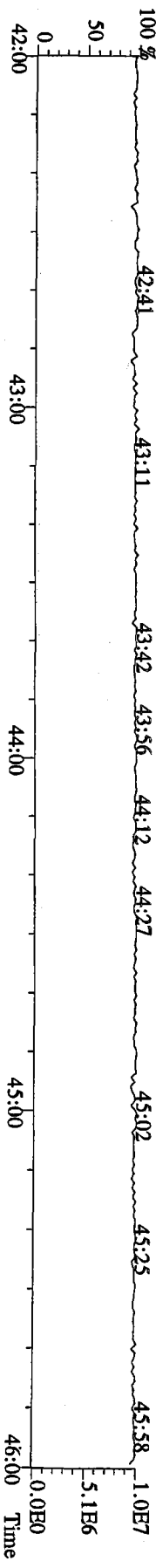
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 435.8169 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



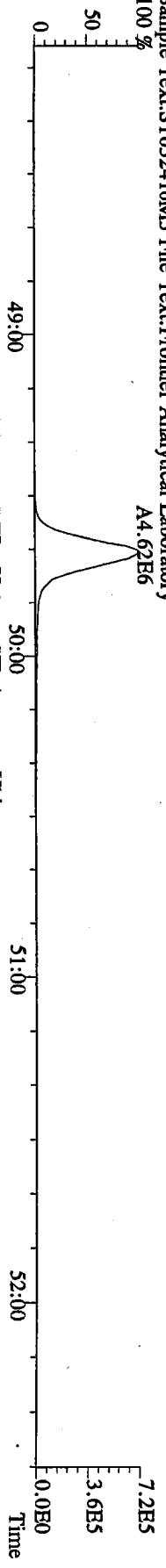
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 437.8140 S:24 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



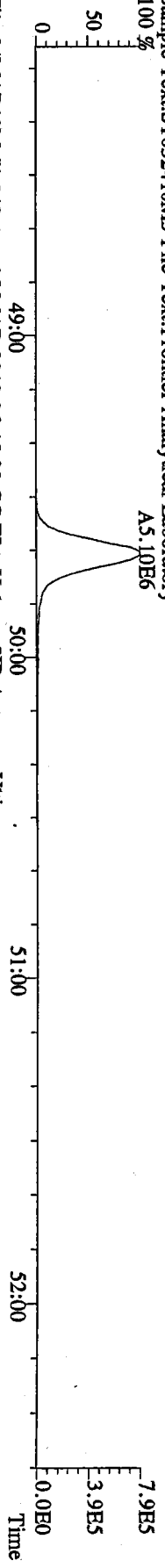
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 430.9728 S:24 F:4 Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



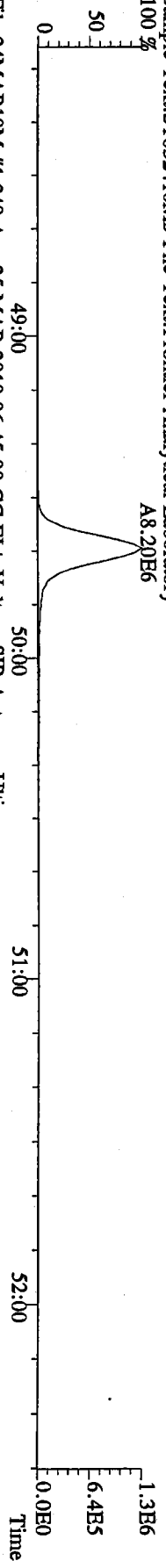
File:24MAR10M #1-348 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 457.7377 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



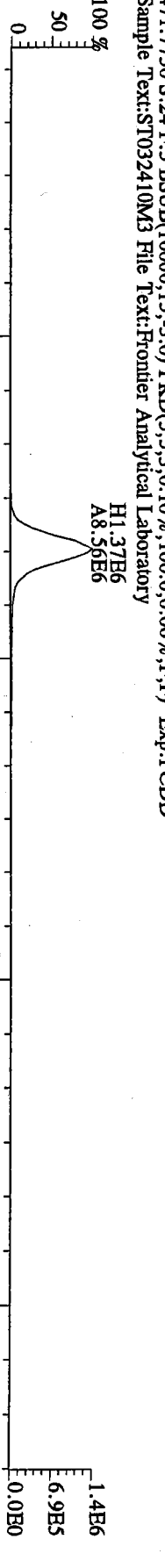
File:24MAR10M #1-348 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 459.7348 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



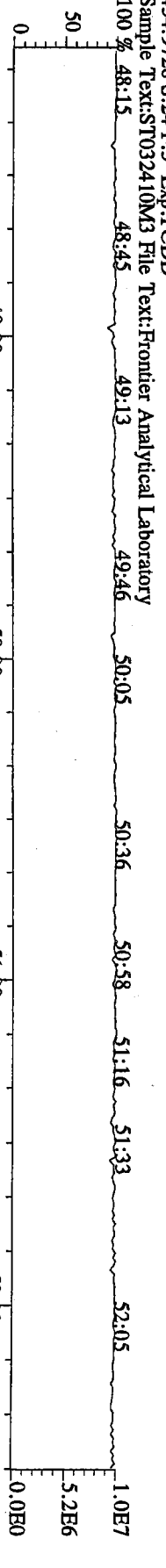
File:24MAR10M #1-348 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 469.7780 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



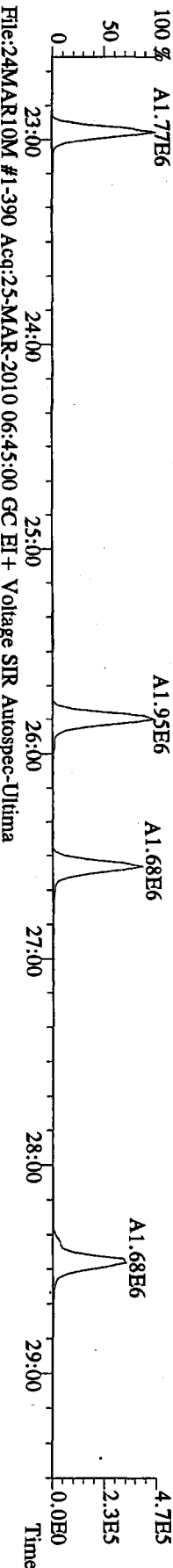
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 471.7750 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



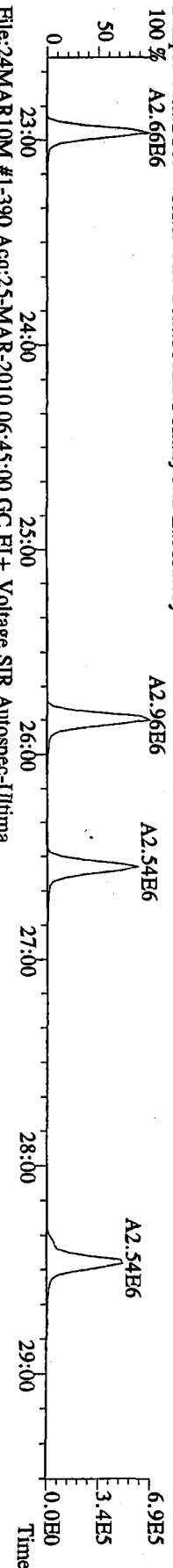
File:24MAR10M #1-348 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 454.9728 S:24 F:5 Exp:PCDD
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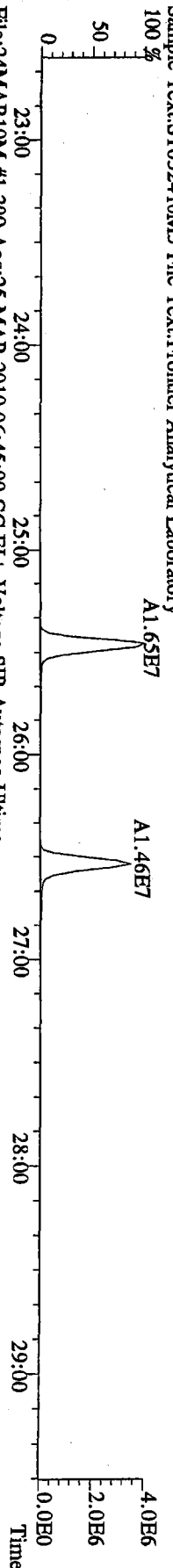
File:24MARI0M #1-390 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 303.9016 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



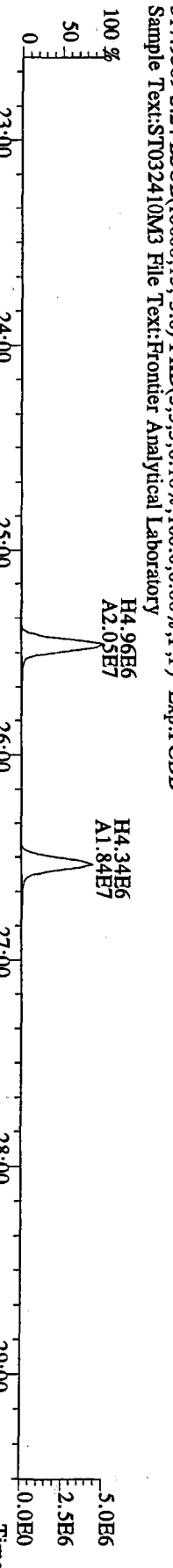
File:24MARI0M #1-390 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 305.8987 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



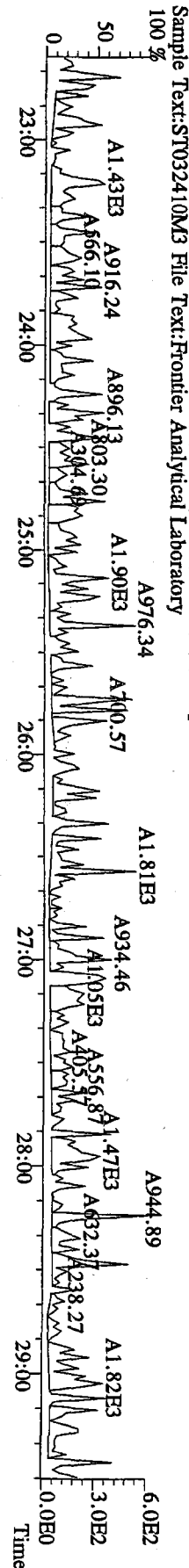
File:24MARI0M #1-390 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
 315.9419 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



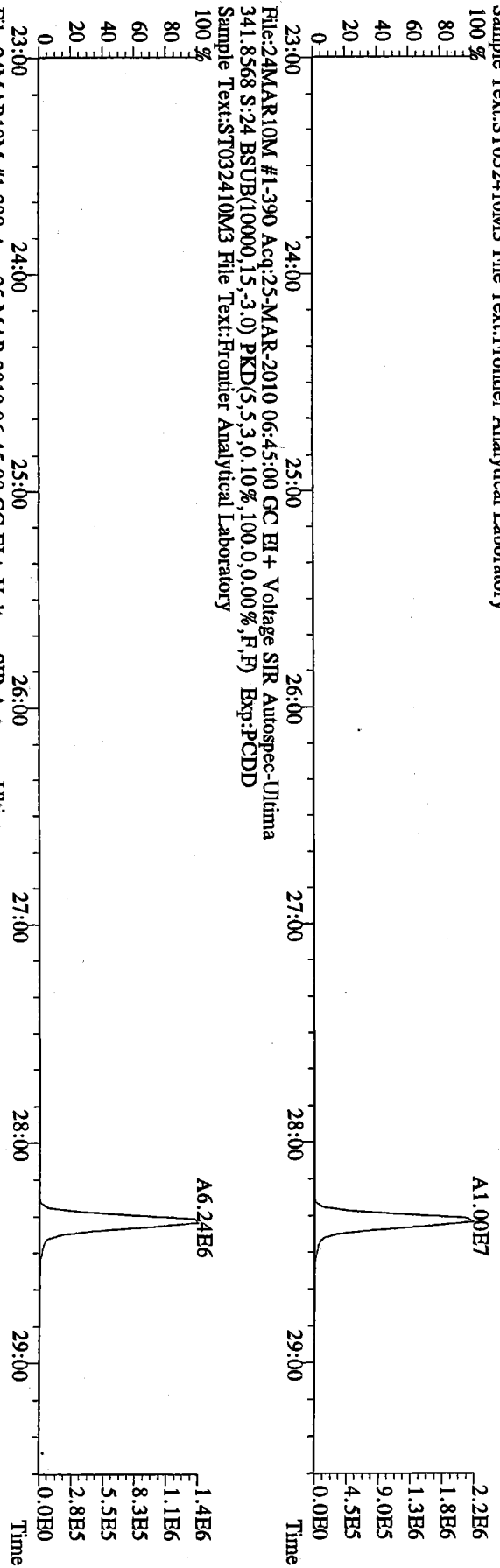
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 317.9389 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



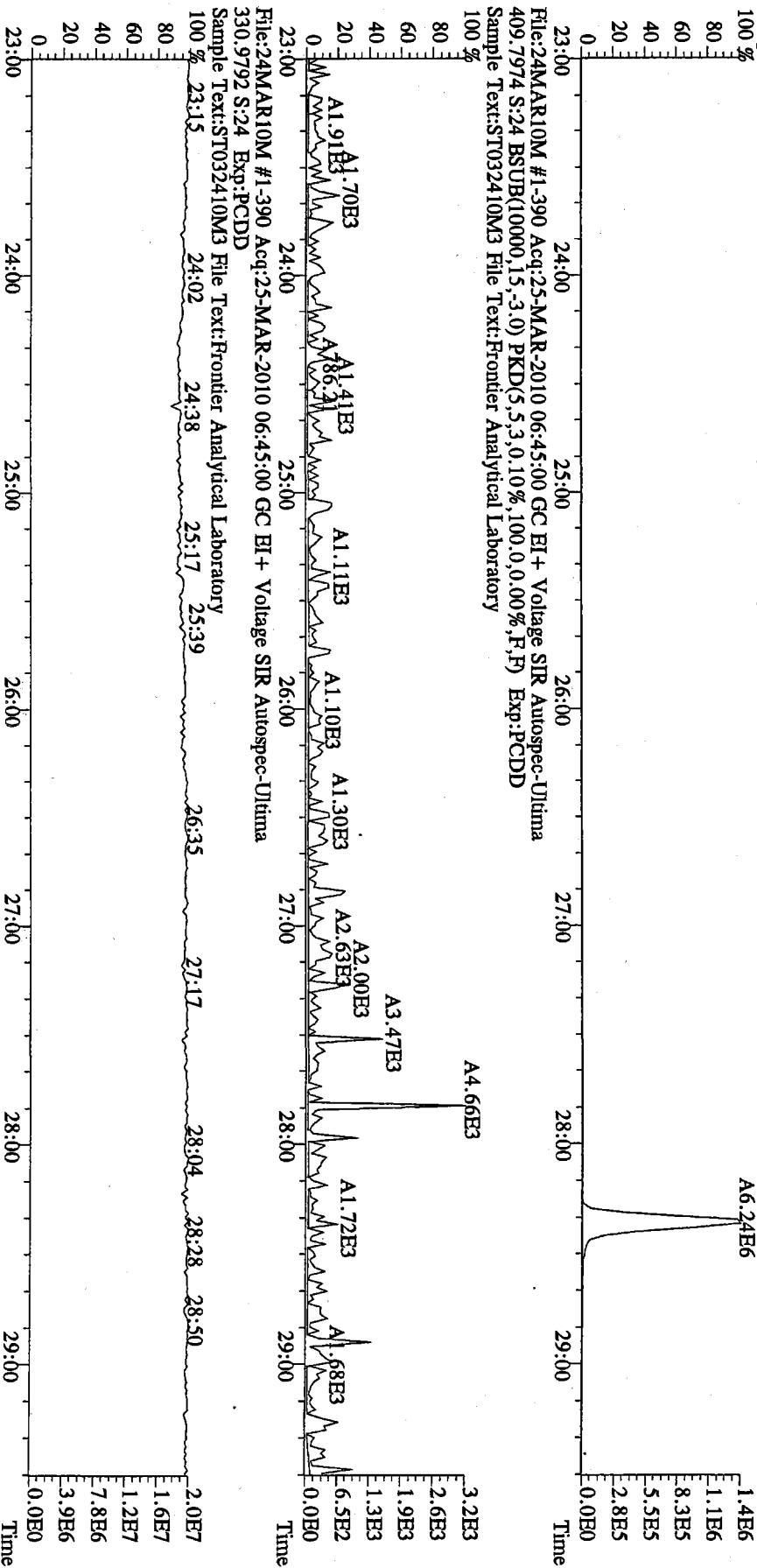
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 375.8364 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



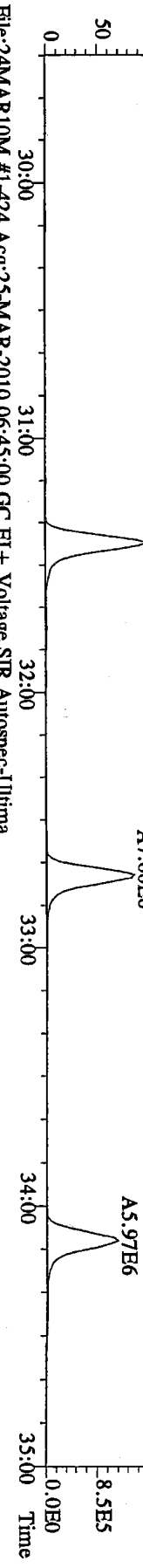
File:24MAR10M #1-390 Acq:25-MAR-2010 06:45:00 GC EI + Voltage SIR Autospec-Utima
 339.8597 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



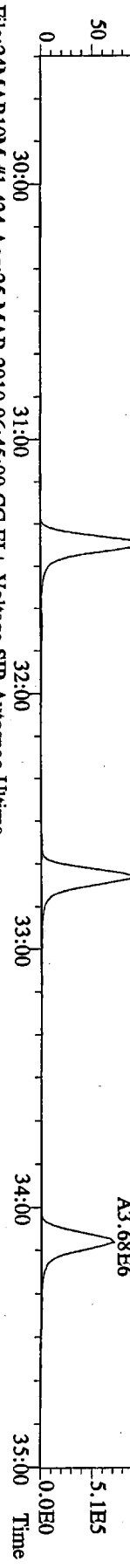
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 341.8568 S:24 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



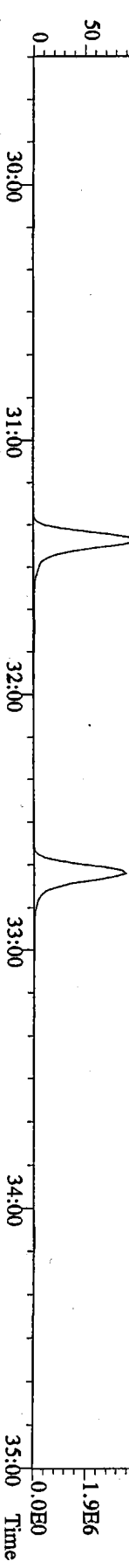
File:24MAR10M #1-424 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



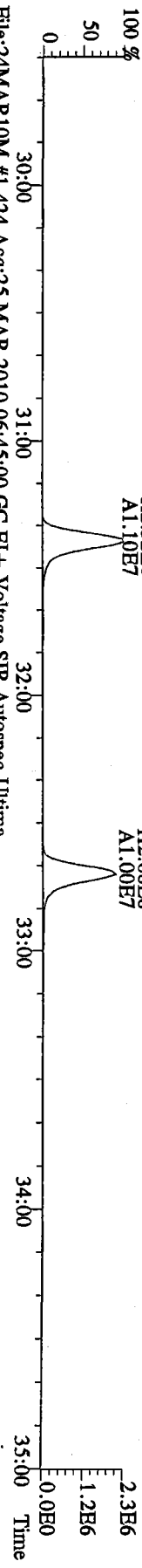
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 341.8568 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



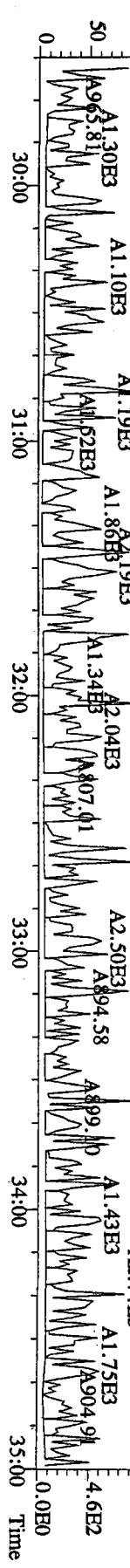
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 351.9000 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



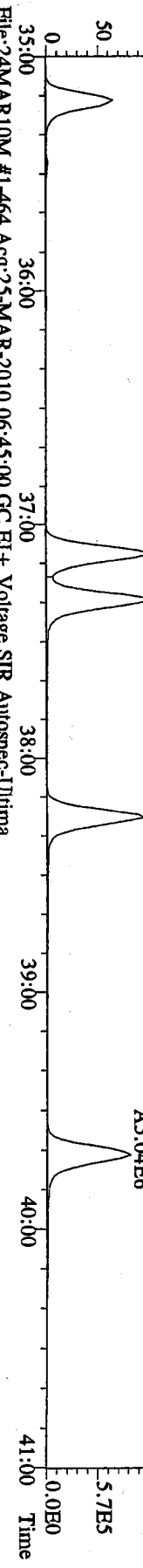
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 353.8970 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



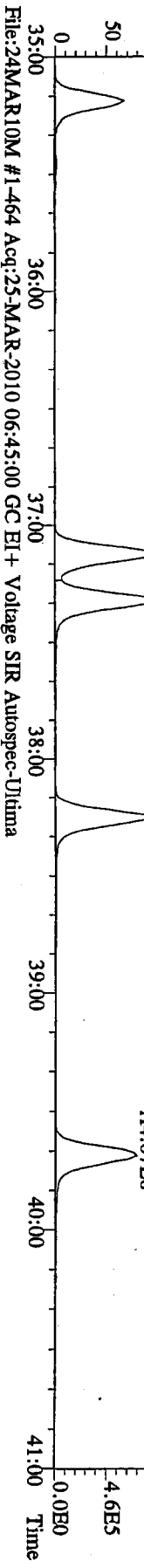
File:24MAR10M #1-424 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



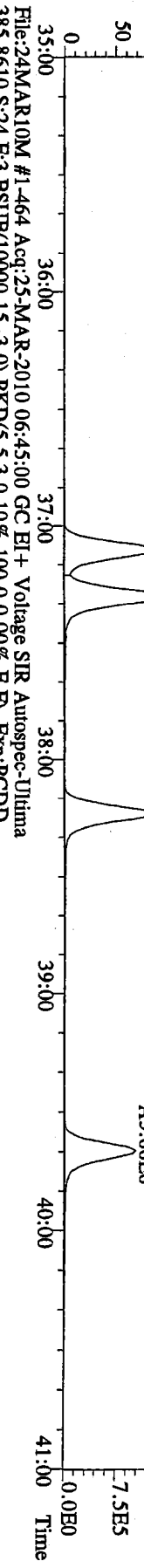
File:24MAR10M #1-464 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



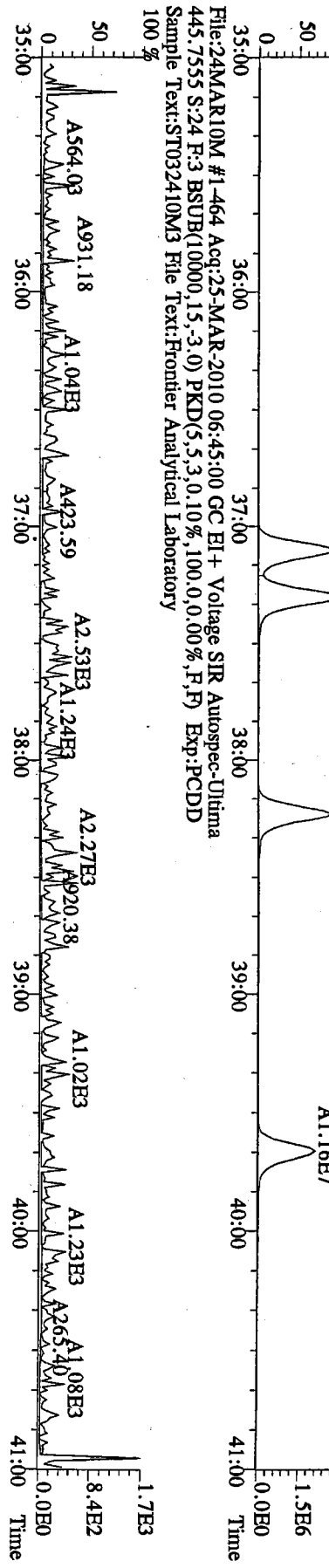
File:24MAR10M #1-464 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



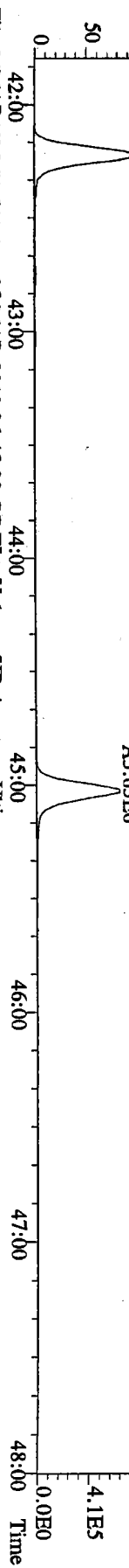
File:24MAR10M #1-464 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



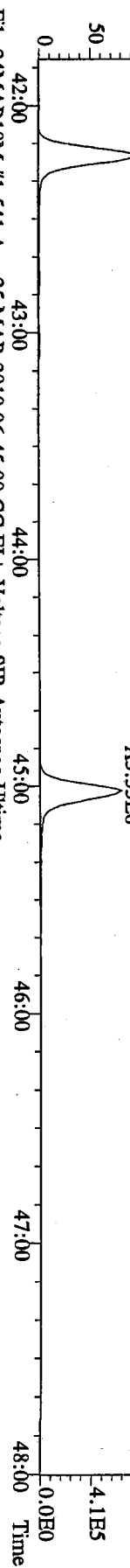
File:24MAR10M #1-464 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



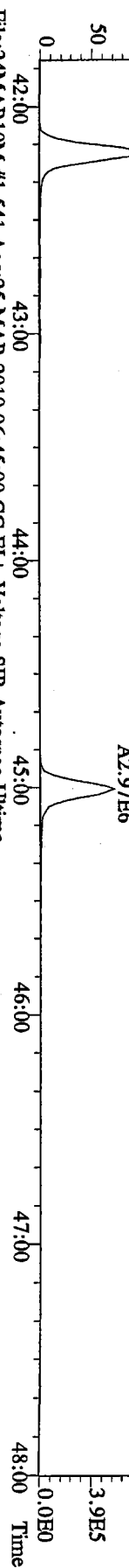
File:24MARI0M #1-541 Acq:25-MAR-2010 06:45:00 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory
100 % A4.24E6



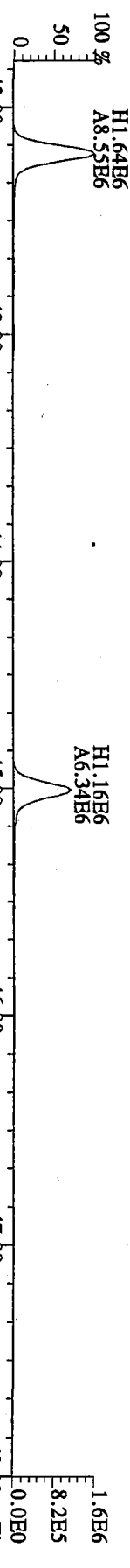
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409.7788 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory
100 % A4.18E6



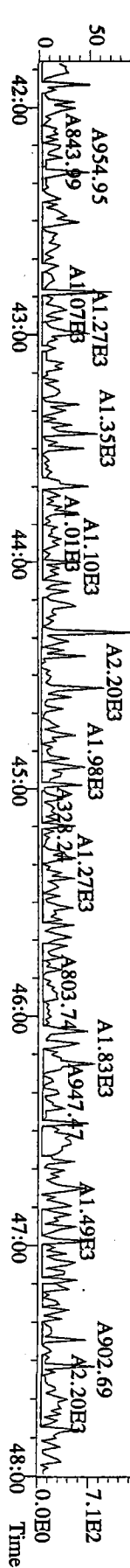
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417.8253 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory
100 % A4.05E6



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419.8220 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



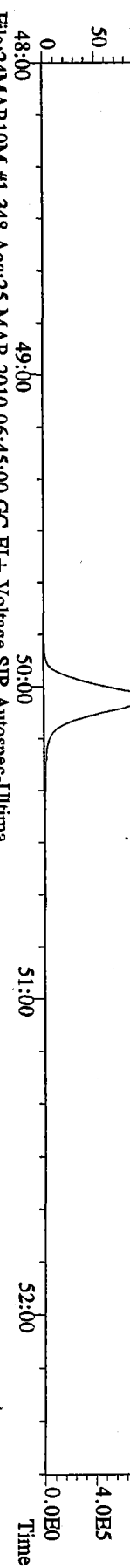
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Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory
100 % A1.80E3



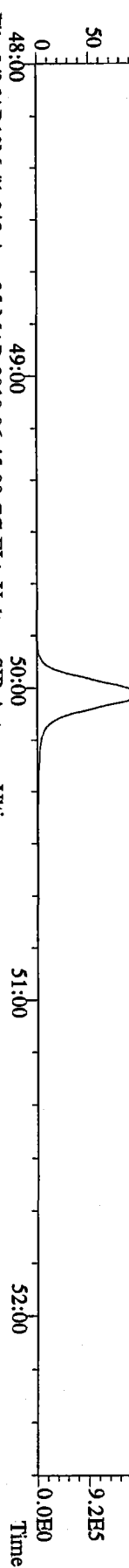
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441.7428 S:24 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



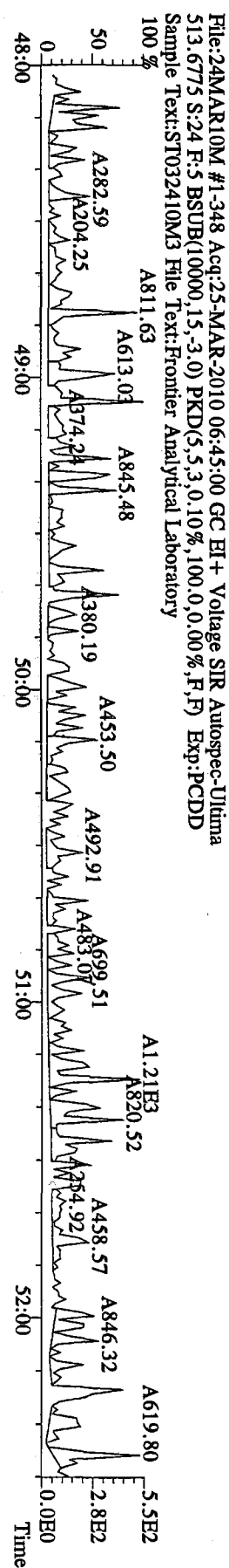
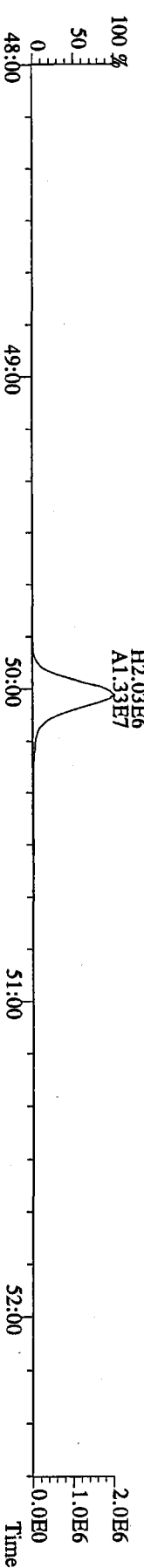
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Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



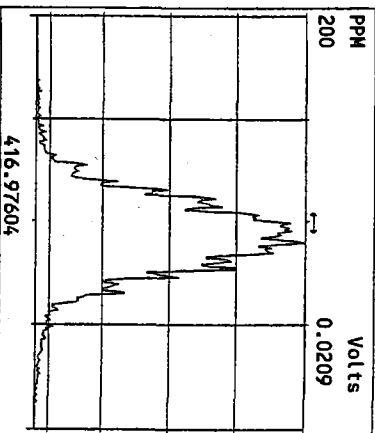
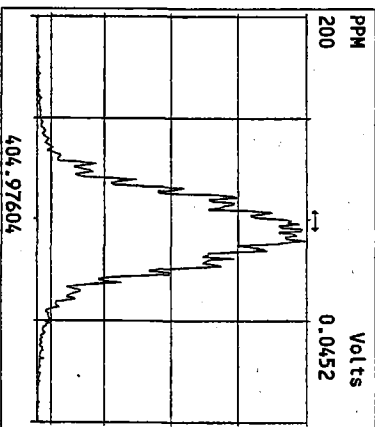
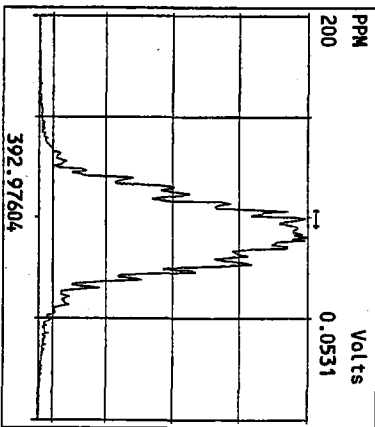
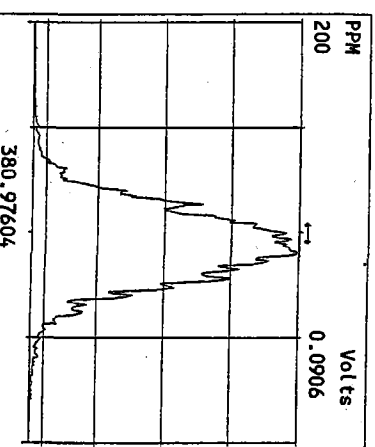
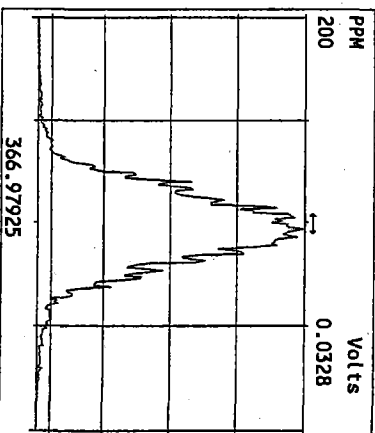
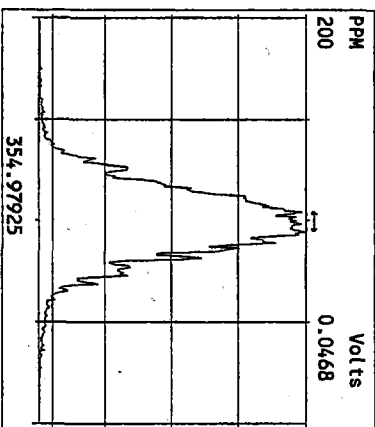
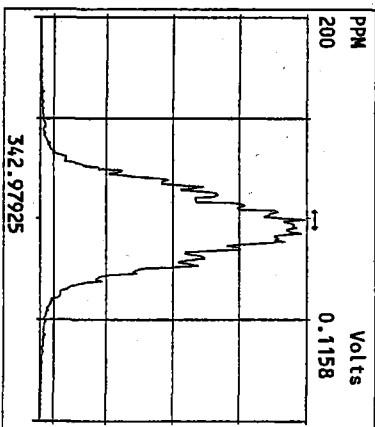
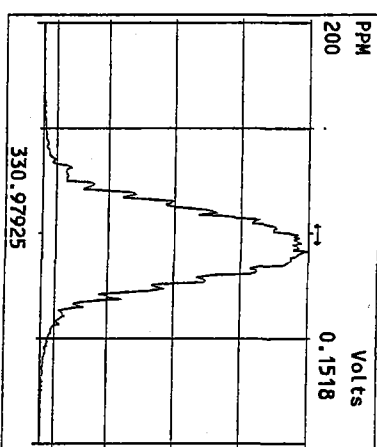
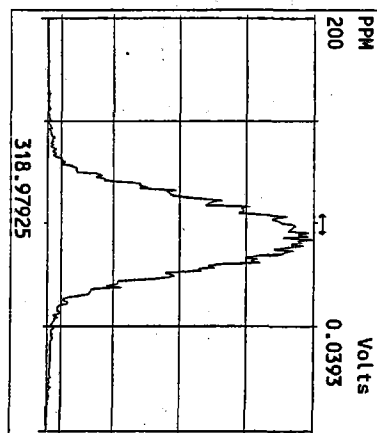
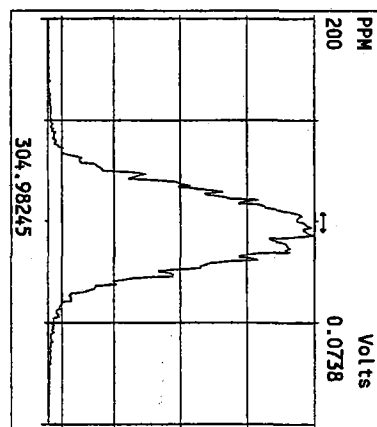
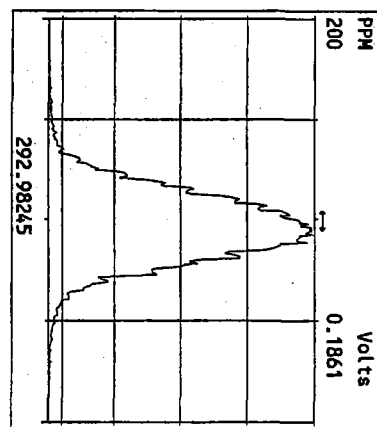
File:24MAR10M #1-348 Acq:25-MAR-2010 06:45:00 GC EI + Voltage SIR Autospec-Ultima
453.7831 S:24 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



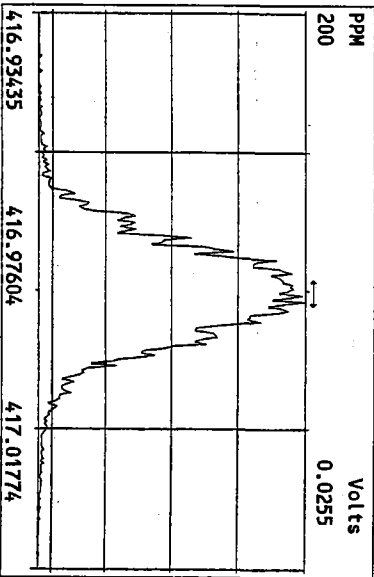
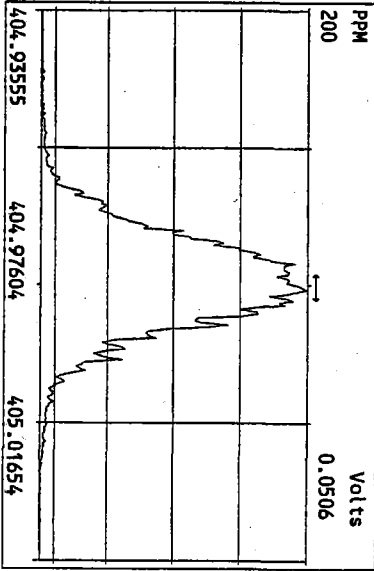
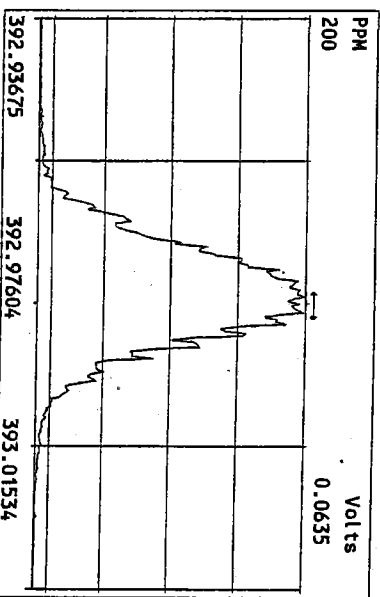
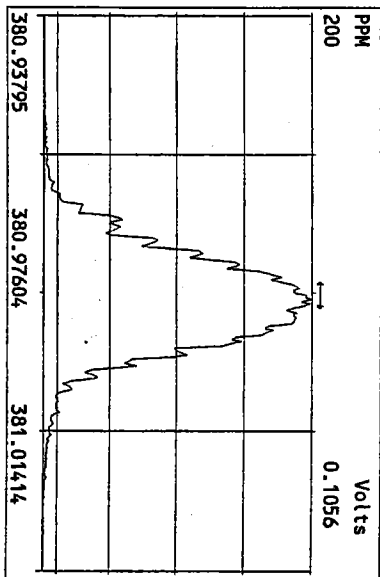
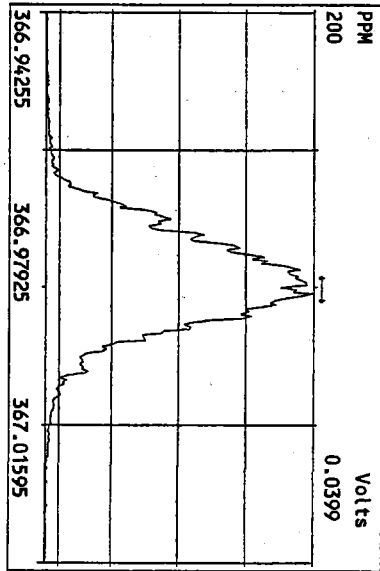
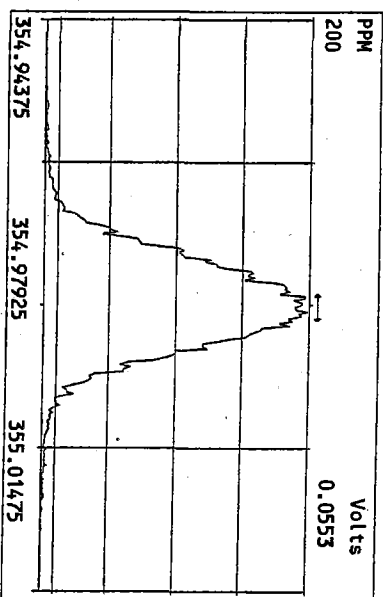
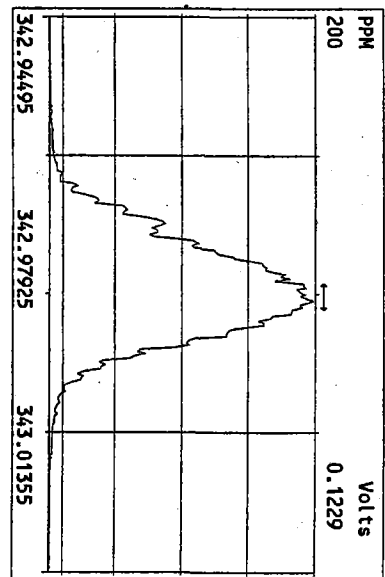
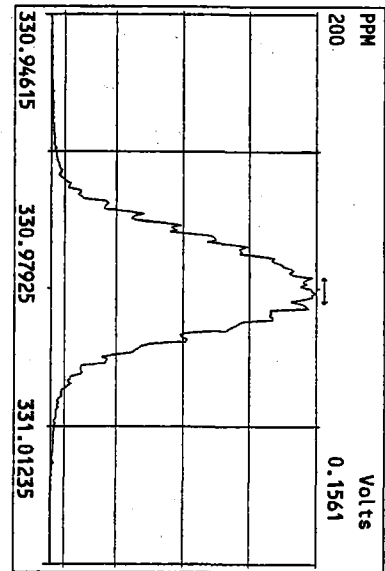
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Sample Text:ST032410M3 File Text:Frontier Analytical Laboratory



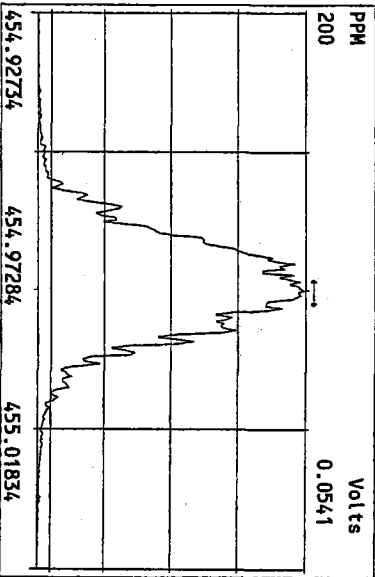
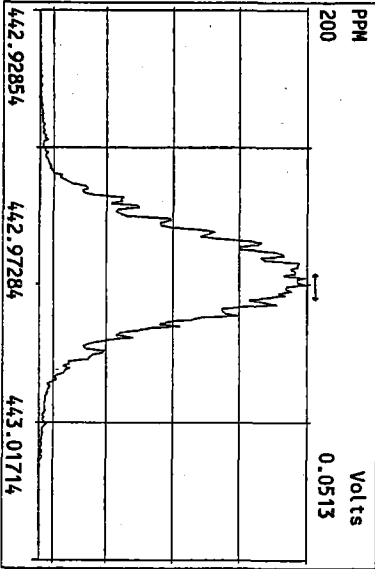
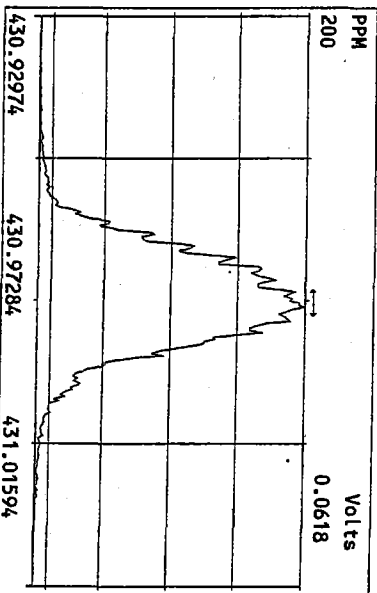
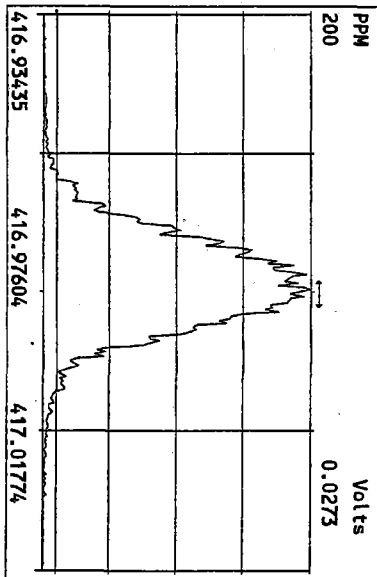
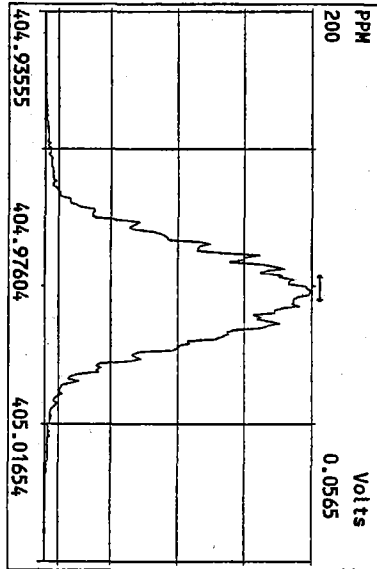
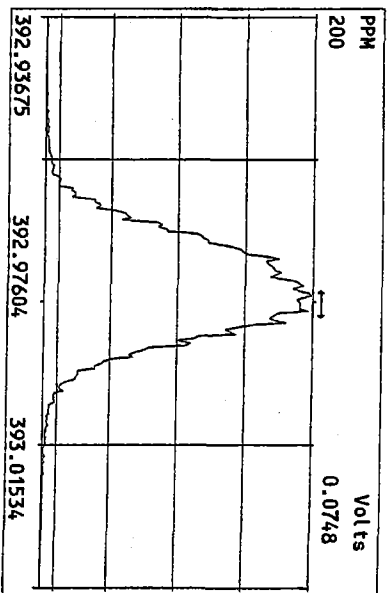
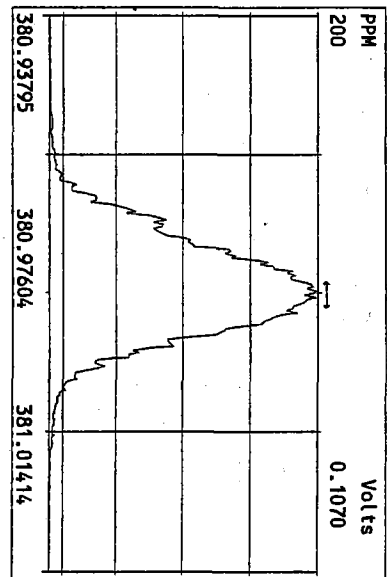
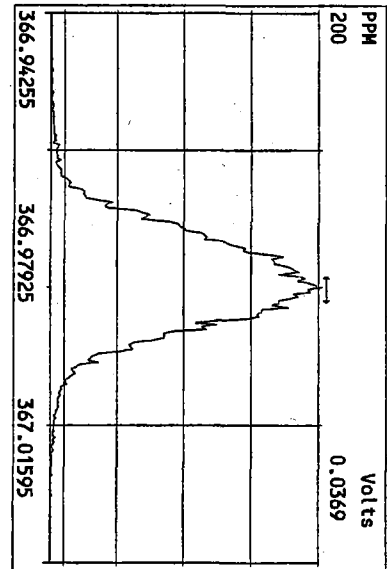
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Experiment:PCDD Function:1 Reference:PFK



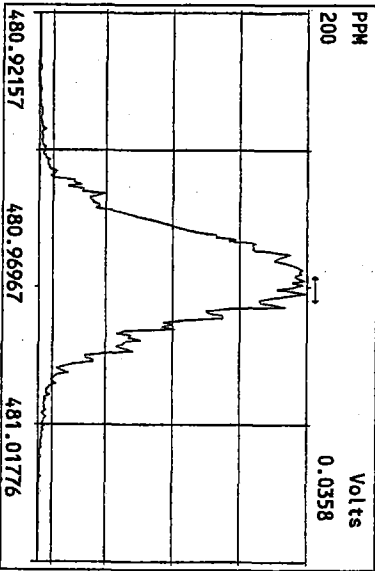
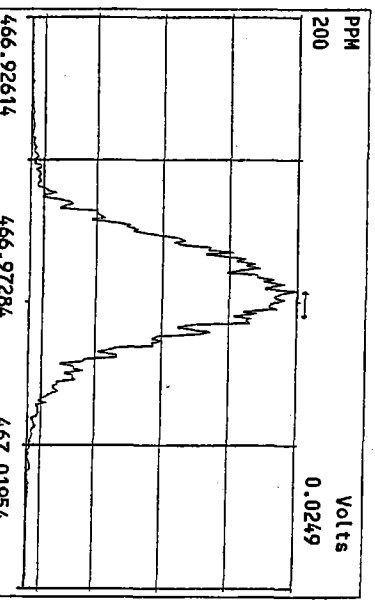
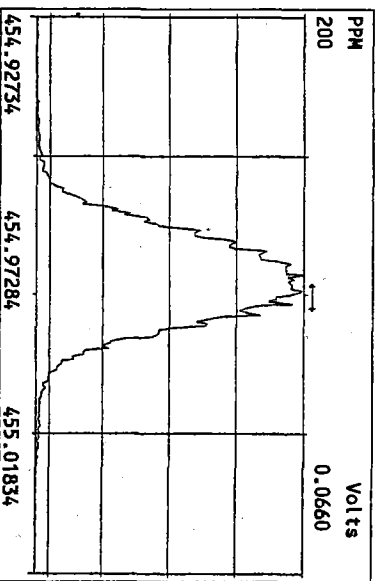
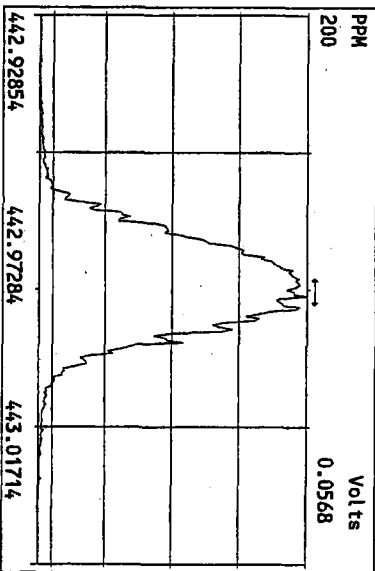
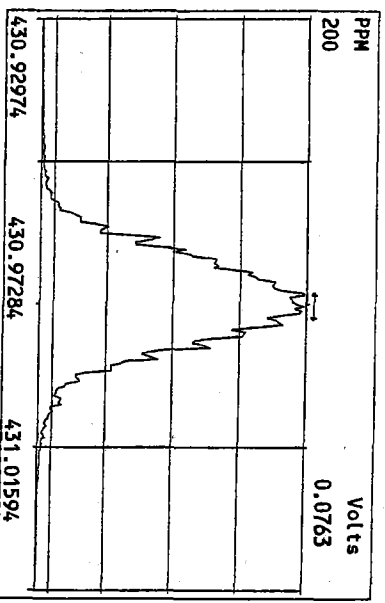
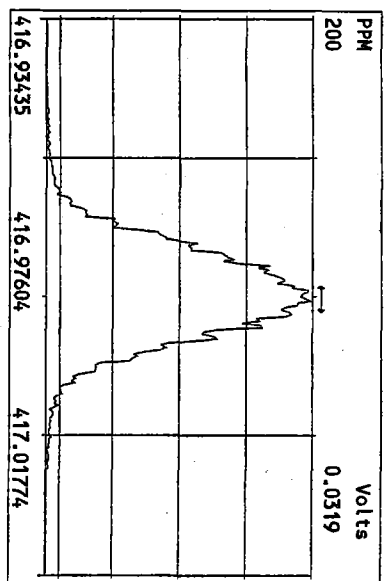
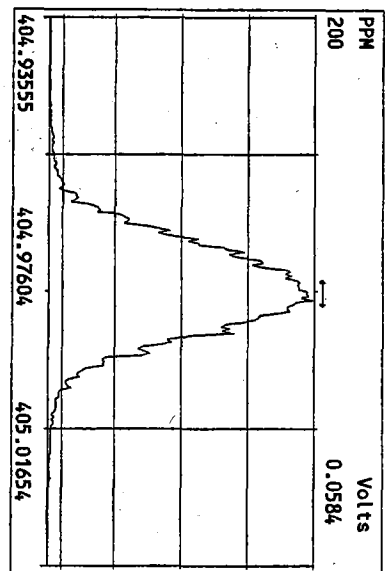
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 Experiment:PCDD Function:2 Reference:PFK



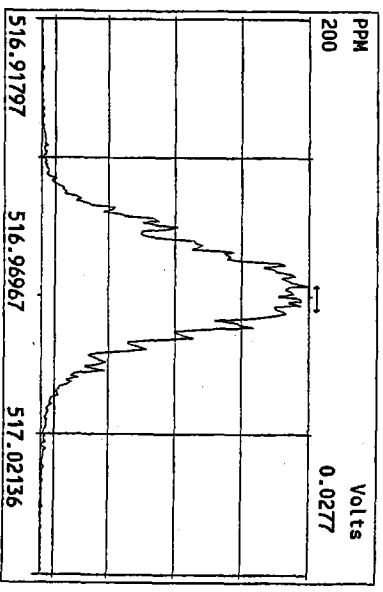
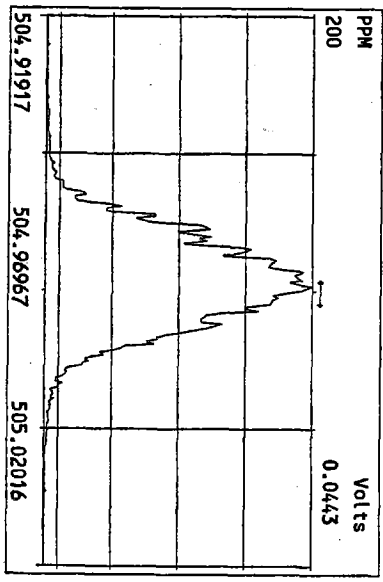
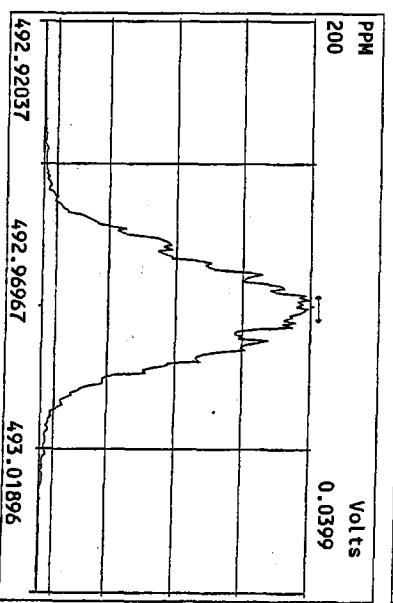
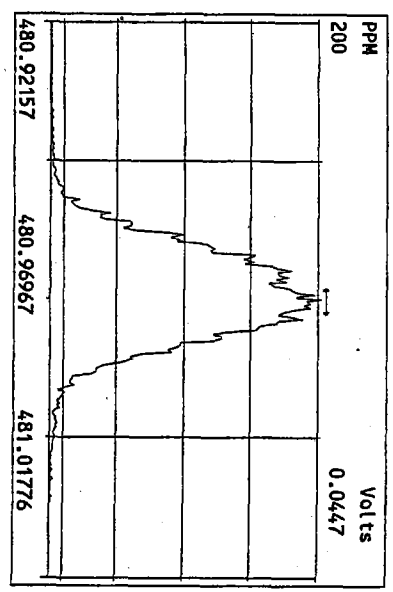
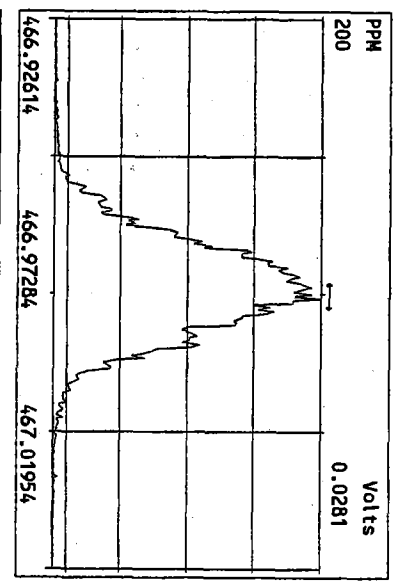
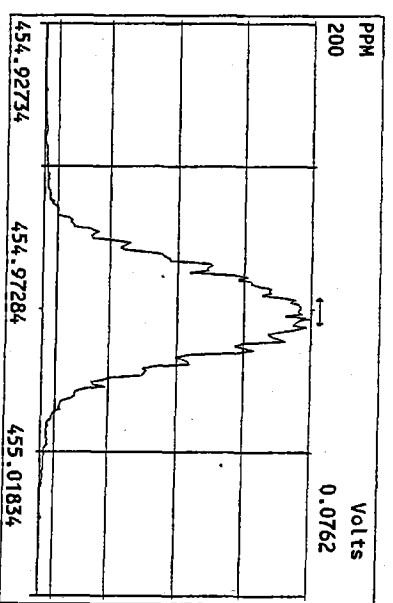
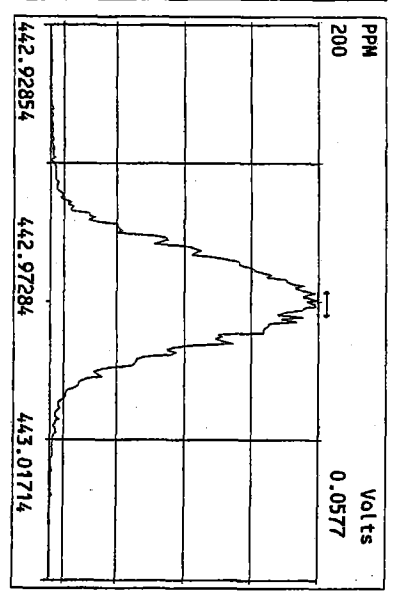
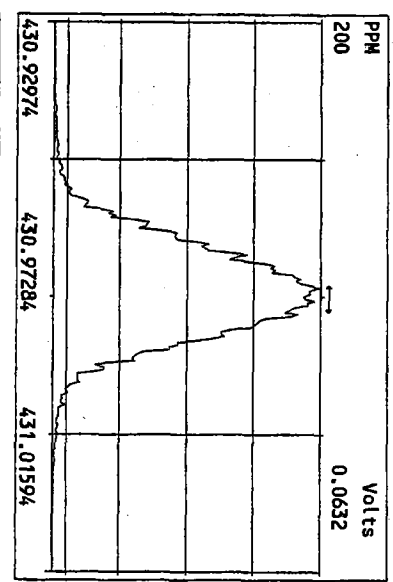
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 Experiment:PCDD Function:3 Reference:PFK



Peak Locate Examination: 25-MAR-2010-07:45 File: 24MAR10M_RES_CHECK
Experiment: PCD0 Function: 4 Reference: PFK



Peak Locate Examination: 25-MAR-2010:07:45 File: 24MART0M_RES_CHECK
 Experiment: PCDD Function: 5 Reference: PK





Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 15, 2010

Jessi Massingale
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Client Project: Lora Lake Apartments, POS-LLA
ARI Job No: QL34

Dear Ms. Massingale:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Susan D. Dunnihoo".

Susan D. Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile QL34

Chain of Custody
Documentation

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

Port of Seattle

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Date: **2-23-2010**
Page: **1** of **1**
No. of Coolers: **1**
Cooler Temp: **22**

ARI Assigned Number: **Standard**
Turn-around Requested:
ARI Client Company: **Floyd / Swider** Phone: **206-292-2078**
Client Contact: **Matt Wolfman / Jessi Massingale**
Client Project Name: **Lora Lake Apartments**

Client Project #: **POS-LLA**
Samplers: **D. Metello B. Kwasnowski**

Sample ID	Date	Time	Matrix	No. Containers
CB31A022310GRAB	2-23-10	1450	W	13
CB100022310GRAB	2-23-10	1550	W	5
CB4857022310GRAB	2-23-10	1815	W	5
CB1022310GRAB	2-23-10	1540	W	5
TB022310	2-23-10	1400	W	3

Analysis Requested	Notes/Comments
NW-TPH-DX VOC 8260 SIM	Run MS/MSD

Comments/Special Instructions	Received by (Signature)	Printed Name	Company	Date & Time
① Acid/silica gel clean up for TPH-DX	<i>[Signature]</i>	Dave Metello	TAI	2-24-10 (1430)
	<i>[Signature]</i>	Peter Heltzel	TAI	2-24-10 (1430)
	<i>[Signature]</i>	Peter Heltzel	TAI	2-24-10 (1500)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

0207 0000



Cooler Receipt Form

ARI Client: Floyd Snider
 COC No(s): _____ (NA)
 Assigned ARI Job No: QL34

Project Name: Lorra Lake Apts
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 2.2 Temp Gun ID#: 90941109

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: JP Date: 2/24/10 Time: 1500
Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? SW YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

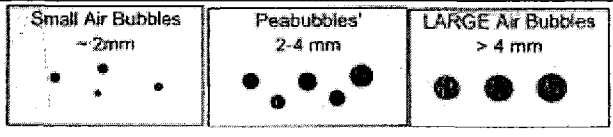
Date VOC Trip Blank was made at ARI: SW NA 2/23/10

Samples Logged by: SW Date: 2/24/10 Time: 1630
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm"
 Peabubbles → "pb"
 Large → "lg"
 Headspace → "hs"

Case Narrative

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.



Case Narrative

Client: Floyd Snider
Project: Lora Lake Apartments, POS-LLA
Matrix: Sediment
ARI Job No.: QL34

Sample receipt

Analytical Resources, Inc. (ARI) accepted four water samples and a trip blank on February 24, 2010 under ARI job QL34. The cooler temperature measured by IR thermometer following ARI SOP was 2.2°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Volatiles by SW8260C

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations for the target compound were within limits. Internal standards were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS and LCSD percent recoveries and RPD were within control limits.

The matrix spike/matrix spike duplicate were run on a separate day, to assure volume was available to complete QC for the SIM analysis. All matrix spike and matrix spike duplicate percent recoveries and RPD were within limits.

Water sample preservation was confirmed within limits after analysis.

Volatiles by SW8260C SIM

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations were within limits. Internal standards were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS and LCSD percent recoveries and RPD were within control limits.



All matrix spike and matrix spike duplicate percent recoveries were within limits.

Water sample preservation was confirmed within limits after analysis.

NW-TPHDx with Acid Silica cleanups

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS percent recovery was within control limits.

The matrix spike and matrix spike duplicate percent recovery and RPD of Diesel was within limits.



Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte



- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

2/2/2010

LABL SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1686-1	PCB 1660	20	ACETONE 09/01/10
2#	1472-3	BCOC PEST	10	ACETONE NA
3	1620-4	PEST	02/04/20	ACETONE 06/26/10
4	1667-1	LOW PEST	0.2/0.4/2	ACETONE 06/26/10
5	1677-1	EPH	1500	MECL2 11/12/10
6	1655-3	PCP	12.5/125	ACETONE 09/24/10
7	1697-2	ABN	100	ACETONE 01/27/11
8	1681-4	TBT	2.5	MECL2 12/01/10
9	1682-2	PORE TBT	.125/.25	MECL2 12/01/10
10	1698-2	ABN ACID	100/200	MECL2 07/14/10
11	1642-2	TPHD	15000	ACETONE 09/07/10
12	1698-1	ABN BASE	200	MEOH 07/24/10
13	1613-1	LOW PCB	2	ACETONE 06/08/10
14*	1547-1	LOW ABN ACID	10/20	MEOH 04/10/10
15*	1591-3	SIM PNA	15/75	MEOH 08/28/10
16	1602-3	DIOXANE	100	MEOH 03/20/10
17	1644-1	1248 PCB	10	ACETONE 09/10/10
18*	1591-4	LOW SIM PNA	1.5	ACETONE 08/28/10
19	1685-3	AK103	7500	ACETONE 09/03/10
20	1682-4	PNA	100	ACETONE 12/04/10
21	1593-3	SKY/BHT	100	MEOH 03/31/10
22	1675-1	HERB	12.5/12500	MEOH 02/19/10
23*	1505-1	LW ABN BASE	20	MEOH 03/20/10
24	1696-1	LOW ABN	10	ACETONE 01/13/11
25#	1481-1	DIPHENYL	100	MEOH NA
26*	1545-2	OP-PEST	25	MEOH 02/16/10
27	1668-3	STEROLS	200	MEOH 10/30/10
28#	1684-1	ADD. PEST	4	ACETONE 03/25/10
29#	1496-3	DECANES	100	MEOH NA
30	1620-1	EDB/DBCP	0.2	MEOH 06/22/10

LCS SOLUTIONS

2/2/2010

31	1596-1	TERPINEOL	100	MEOH	04/03/10
32	1619-3	GUAIACOL	50-200	ACETONE	04/30/10
33	1639-3	RETENE	100	MEOH	09/03/10
34	1633-1	CONGENERS	2.5	ACETONE	08/11/10
35	1674-3	ALKYL PNA A	10	MEOH	10/28/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1617-1	FULL RESIN	250	ACETONE	06/17/10
51	1696-3	DDTS	2.5	ACETONE	06/03/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
		*=REVERIFIED SOLUTION			
		#=PROJECT SPECIFIC SOLUTION			

SURR SOLUTIONS

2/2/2010

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1662-3	ABN	100/150	MEOH	10/08/10
B	1633-3	SIM PNA	15/75	MEOH	08/12/10
C*	1559-1	SIM ABN	25/37.5	MEOH	03/13/10
D	1689-2	LOW PCB	0.2	ACETONE	12/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1683-3	PCP	12.5	ACETONE	12/09/10
G*	1534-1	1,4DIOXANE	100	MEOH	02/20/10
H	1594-1	OP-PEST	25	MEOH	04/01/10
I	1634-1	LOW S. PNA	1.5	MEOH	08/12/10
J	1681-2	TBT-PORE	0.125	MECL2	12/01/10
K	1689-1	MED PCB	20	ACETONE	12/29/10
L	1681-1	TBT	2.5	MECL2	12/01/10
M	1682-1	EPH	1500	MECL2	09/17/10
N	1689-3	PCB	2	ACETONE	12/29/10
O	1699-1	TPH	450	MECL2	07/02/10
P	1666-3	HCID	2250	MECL2	05/06/10
Q	1620-2	EDB	1	MEOH	06/22/10
R	1615-1	RESIN ACID	250	ACETONE	06/17/10
S#	1568-5	PBDE	.25	MEOH	NA
T	1674-2	ALKYL PNA	10	MEOH	07/30/10
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
		*reverified solution			
		#project specific			
Y					
Z					



**Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID)
and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) ⁽¹⁾**
Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Method:	NWTPH-HCID ⁽²⁾	NWTPH-D		AK102 ⁽²⁾
Sample Matrix:	Water & Soil	Water	Soil	Water & Soil
Preparation:	500 to 1 mL	500 to 1 mL	10g to 1 mL	500 to 1 mL or 10g to 1 mL
LCS Spike Recovery ⁽³⁾				
Diesel	-- - --	56 - 103	55 - 104	75 - 125
Diesel with Acid & Silica Clean-up	-- - --	43 - 100	54 - 96	(4)
Diesel with Silica Clean-up	-- --	43 - 100	54 - 96	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-- - --	57 - 120	58 - 121	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-- - --	51 - 120	63 - 115	(4)
o-Terphenyl Silica Clean-up		51 - 120	63 - 115	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	35 - 131	53 - 118	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-- - --	41 - 121	49 - 120	(4)
o-Terphenyl with Silica Clean-up		41 - 121	49 - 120	50 - 150

- Control Limits calculated using all data generated 1/1/08 through 12/31/08
- Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
- Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
- Alaska State UST Methods do not allow acid cleanup of sample extracts.



**Spike Recovery Control Limits for Analysis of Aqueous Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
10 mL Purge Volume ^(1,7)**

Effective: 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	ARI Control Limits	ARI ME Control Limits ⁽²⁾
LCS Spike Recovery ⁽⁶⁾		
<i>tert</i> -Butanol	49 - 150	32 - 167
Metyl- <i>tert</i> -butylether	47 - 154	29 - 172
Di- <i>iso</i> -propylether	43 - 149	25 - 167
Ethyl- <i>tert</i> -butylether	45 - 155	27 - 173
<i>tert</i> -Amyl methylether	52 - 151	35 - 168
Dichlorodifluoromethane	59 - 129	47 - 141
Chloromethane	66 - 123	57 - 133
Vinyl Chloride	68 - 121	59 - 130
Bromomethane	55 - 148	40 - 164
Chloroethane	47 - 155	29 - 173
Trichlorofluoromethane	70 - 129	60 - 139
Acrolein	24 - 170	10 - 194
Trichlorotrifluoroethane	74 - 127	65 - 136
Acetone	70 - 130	60 - 140
1,1-Dichloroethene	72 - 120	64 - 127
Bromoethane	73 - 131	63 - 141
Methyl Iodide	34 - 183	10 - 208
Methylene Chloride	70 - 124	61 - 133
Acrylonitrile	71 - 135	60 - 146
Methyl <i>tert</i> -Butyl Ether	78 - 120	72 - 122
Carbon Disulfide	66 - 129	56 - 140
<i>trans</i> -1,2-Dichloroethene	76 - 120	70 - 120
Vinyl Acetate	49 - 134	35 - 148
1,1-Dichloroethane	75 - 120	68 - 124
2-Butanone	78 - 131	69 - 140
2,2-Dichloropropane	68 - 121	59 - 130
<i>cis</i> -1,2-Dichloroethene	80 - 120	75 - 120
Chloroform	78 - 120	72 - 121
Bromodichloromethane	79 - 120	73 - 120
1,1,1-Trichloroethane	76 - 120	69 - 123
1,1-Dichloropropene	78 - 120	72 - 120
Carbon Tetrachloride	70 - 126	61 - 135
1,2-Dichloroethane	78 - 120	72 - 120
Benzene	79 - 120	73 - 120
Trichloroethene	78 - 120	72 - 122
1,2-Dichloropropane	80 - 120	75 - 120
Bromochloromethane	78 - 120	72 - 124



Dibromomethane	80 - 120	75 - 120
2-Chloroethylvinylether	68 - 134	57 - 145
4-Methyl-2-Pentanone	73 - 131	63 - 141
cis-1,3-Dichloropropene	78 - 120	72 - 121
Toluene	79 - 120	74 - 120
trans-1,3-Dichloropropene	75 - 120	68 - 124
2-Hexanone	75 - 130	66 - 139
1,1,2-Trichloroethane	79 - 120	74 - 120
1,3-Dichloropropane	78 - 120	72 - 120
Tetrachloroethene	72 - 120	65 - 125
Dibromochloromethane	78 - 120	71 - 125
Ethylene Dibromide	75 - 120	68 - 125
Chlorobenzene	79 - 120	73 - 120
Ethylbenzene	78 - 121	71 - 128
1,1,2,2-Tetrachloroethane	72 - 120	64 - 127
m,p-Xylene	65 - 129	54 - 140
o-Xylene	76 - 120	69 - 127
Styrene	74 - 121	66 - 129
Isopropylbenzene	74 - 120	66 - 128
Bromoform	71 - 120	63 - 128
1,1,1,2-Tetrachloroethane	75 - 120	68 - 126
1,2,3-Trichloropropane	73 - 120	65 - 128
trans-1,4-Dichloro-2-butene	65 - 135	53 - 147
n-Propylbenzene	76 - 121	69 - 129
Bromobenzene	72 - 120	64 - 126
1,3,5-Trimethylbenzene	74 - 123	66 - 131
2-Chlorotoluene	74 - 120	67 - 127
4-Chlorotoluene	75 - 120	68 - 125
tert-Butylbenzene	73 - 121	65 - 129
1,2,4-Trimethylbenzene	73 - 124	65 - 133
sec-Butylbenzene	75 - 123	67 - 131
4-Isopropyltoluene	71 - 125	62 - 134
1,3-Dichlorobenzene	72 - 120	64 - 127
1,4-Dichlorobenzene	76 - 120	69 - 123
n-Butylbenzene	72 - 124	63 - 133
1,2-Dichlorobenzene	75 - 120	68 - 124
1,2-Dibromo-3-chloropropane	67 - 121	58 - 130
1,2,4-Trichlorobenzene	71 - 120	63 - 128
Hexachloro-1,3-butadiene	67 - 124	58 - 134
Naphthalene	71 - 125	62 - 134
1,2,3-Trichlorobenzene	61 - 134	49 - 146
MB/LCS Surrogate Recovery		
Dibromofluoromethane	64 - 133	(3)
d4-1,2-Dichloroethane	70 - 132	(3)
d8-Toluene	80 - 120	(3)



4-Bromofluorobenzene	80 - 120	(3)
d4-1,2-Dichlorobenzene	80 - 120	(3)
Sample Surrogate Recovery		
Dibromofluoromethane	30 - 160 ⁽⁵⁾	(3)
d4-1,2-Dichloroethane	80 - 143	(3)
d8-Toluene	80 - 120	(3)
4-Bromofluorobenzene	80 - 120	(3)
D4-1,2-Dichlorobenzene	80 - 120	(3)

(1) Control Limits calculated using all data generated 1/1/08 through 4/15/09.

(2) **ME** = A **marginal exceedance** defined in the NELAC Standard⁽⁴⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of four marginal exceedances are acceptable. Five or more marginal exceedances require corrective action.

(3) Marginal Exceedances not allowed for surrogate standards.

(4) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.

(5) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses

(6) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

(7) Highlighted control limits (**bold font**) are adjusted from the calculated values as follows:

a) ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.



Spike Recovery Control Limits for SIM VOA EPA Method SW-846-8260C ^(1,2) Effective 12/24/07	
Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip	
Sample Matrix:	Water
Purge Volume:	10 mL
LCS Spike Recovery ⁽³⁾	
Vinyl Chloride	76 - 120
1,1-Dichloroethene	79 - 126
<i>cis</i> -1,2-Dichloroethene	76 - 127
Trichloroethene	79 - 120
Benzene	75 - 121
Tetrachloroethene	75 - 123
1,1,2,2-Tetrachloroethane	72 - 129
Method Blank/LCS Surrogate Recovery	
d4-1,2-Dichloroethane	80 - 133
d8-Toluene	80 - 121
Sample Surrogate Recovery	
d4-1,2-Dichloroethane	80 - 136
d8-Toluene	80 - 120

(1) Control limits calculated using historic data collected from 4/1/05 to 11/15/07

(2) Highlighted control limits (**bold font**) adjusted from the calculated values as follows:

- a) ARI does not use control limits < 10
- b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

Data Summary Package

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

VOLATILE ANALYSIS

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: CB31A022310GRAB

Page 1 of 1

SAMPLE

Lab Sample ID: QL34A

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *B*

Date Sampled: 02/23/10

Reported: 03/05/10

Date Received: 02/24/10

Instrument/Analyst: NT5/PKC

Sample Amount: 10.0 mL

Date Analyzed: 02/25/10 19:09

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 112%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB100022310GRAB
SAMPLE

Lab Sample ID: QL34B

LIMS ID: 10-4686

Matrix: Water

Data Release Authorized: 

Reported: 03/05/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: 02/23/10

Date Received: 02/24/10

Instrument/Analyst: NT5/PKC

Date Analyzed: 02/25/10 19:35

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 110%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB4857022310GRAB
SAMPLE

Lab Sample ID: QL34C


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4687

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/05/10

Date Received: 02/24/10

Instrument/Analyst: NT5/PKC

Sample Amount: 10.0 mL

Date Analyzed: 02/25/10 20:01

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 109%

ORGANICS ANALYSIS DATA SHEET


Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB1022310GRAB
SAMPLE

Lab Sample ID: QL34D

LIMS ID: 10-4688

Matrix: Water

Data Release Authorized: 

Reported: 03/05/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: 02/23/10

Date Received: 02/24/10

Instrument/Analyst: NT5/PKC

Date Analyzed: 02/25/10 20:26

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 109%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: TB022310
Trip Blank

Lab Sample ID: QL34E

LIMS ID: 10-4689

Matrix: Water

Data Release Authorized: *AS*

Reported: 03/05/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: 02/23/10

Date Received: 02/24/10

Instrument/Analyst: NT5/PKC

Date Analyzed: 02/25/10 13:07

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 105%

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-022510	Method Blank	10	109%	NA	NA	NA	0
LCS-022510	Lab Control	10	110%	NA	NA	NA	0
LCSD-022510	Lab Control Dup	10	105%	NA	NA	NA	0
QL34A	CB31A022310GRAB	10	112%	NA	NA	NA	0
QL34AMS	CB31A022310GRAB	10	110%	NA	NA	NA	0
QL34AMSD	CB31A022310GRAB	10	111%	NA	NA	NA	0
MB-030210	Method Blank	10	103%	NA	NA	NA	0
LCS-030210	Lab Control	10	105%	NA	NA	NA	0
LCSD-030210	Lab Control Dup	10	107%	NA	NA	NA	0
QL34B	CB100022310GRAB	10	110%	NA	NA	NA	0
QL34C	CB4857022310GRAB	10	109%	NA	NA	NA	0
QL34D	CB1022310GRAB	10	109%	NA	NA	NA	0
QL34E	TB022310	10	105%	NA	NA	NA	0

LCS/MB LIMITS

QC LIMITS

SW8260C

(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene
(BFB) = Bromofluorobenzene
(DCB) = d4-1,2-Dichlorobenzene

70-132
80-120
80-120
80-120


80-143
80-120
80-120
80-120

Prep Method: SW5030B
Log Number Range: 10-4685 to 10-4689

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A022310GRAB
MATRIX SPIKE

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: 
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst MS: NT10/AAR
MSD: NT10/AAR
Date Analyzed MS: 03/02/10 20:02
MSD: 03/02/10 20:32

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2-Dichloroethane	< 0.2 U	11.1	10.0	111%	11.1	10.0	111%	0.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A022310GRAB
MATRIX SPIKE

Lab Sample ID: QL34A

LIMS ID: 10-4685

Matrix: Water

Data Release Authorized: *BS*

Reported: 03/05/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: 02/23/10

Date Received: 02/24/10

Instrument/Analyst: NT10/AAR

Date Analyzed: 03/02/10 20:02

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 110%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A022310GRAB
MATRIX SPIKE DUP

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: *RB*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/02/10 20:32

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 111%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-022510

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-022510


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 03/05/10

Date Received: NA

Instrument/Analyst LCS: NT5/PKC

Sample Amount LCS: 10.0 mL

LCS: NT5/PKC

LCS: 10.0 mL

Date Analyzed LCS: 02/25/10 10:26

Purge Volume LCS: 10.0 mL

LCS: 02/25/10 10:51

LCS: 10.0 mL

Analyte	LCS	Spike	LCS	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery			Added-LCS	Recovery	
1,2-Dichloroethane	10.1	10.0	101%	9.6	10.0	96.0%	5.1%	

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	110%	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-030210

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030210

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4686

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 03/05/10

Date Received: NA

Instrument/Analyst LCS: NT10/AAR

Sample Amount LCS: 10.0 mL

LCS: NT10/AAR

LCS: 10.0 mL

Date Analyzed LCS: 03/02/10 16:00

Purge Volume LCS: 10.0 mL

LCS: 03/02/10 16:29

LCS: 10.0 mL

Analyte	LCS		LCS		LCS		RPD
	Added	Recovery	Added	Recovery	Added	Recovery	
1,2-Dichloroethane	10.7	107%	10.0	107%	10.7	107%	0.0%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	105%	107%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0225A

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QL34
 Lab File ID: 02251006
 Date Analyzed: 02/25/10
 Instrument ID: NT5

Client: FLOYD-SNIDER
 Project: LORA LAKE APARTMENTS
 Lab Sample ID: MB0225A
 Time Analyzed: 1143
 Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0225	LCS0225	02251003	1026
02	LCSD0225	LCSD0225	02251004	1051
03	TB022310	QL34E	02251009	1307
04	CB31A022310G	QL34A	02251023	1909
05	CB100022310G	QL34B	02251024	1935
06	CB4857022310	QL34C	02251025	2001
07	CB1022310GRA	QL34D	02251026	2026
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09				
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-022510

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-022510

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 03/05/10

Date Received: NA

Instrument/Analyst: NT5/PKC

Sample Amount: 10.0 mL

Date Analyzed: 02/25/10 11:43

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 109%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0302

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QL34
 Lab File ID: MB0302
 Date Analyzed: 03/02/10
 Instrument ID: NT10

Client: FLOYD-SNIDER
 Project: LORA LAKE APARTMENTS
 Lab Sample ID: MB0302
 Time Analyzed: 1659
 Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0302	LCS0302	LCS0302A	1600
02	LCS0302	LCS0302	LCS0302B	1629
03	CB31A022310G	QL34A	QL34AMS	2002
04	CB31A022310G	QL34A	QL34AMSD	2032
05				
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-030210

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-030210


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4686

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 03/05/10

Date Received: NA

Instrument/Analyst: NT10/AAR

Sample Amount: 10.0 mL

Date Analyzed: 03/02/10 16:59

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 103%

SIM VOLATILE ANALYSIS

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QL34A


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 11:37

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	99.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB100022310GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QL34B


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4686

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 12:07

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB4857022310GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QL34C

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4687

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *RB*

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 12:38

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB1022310GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QL34D

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4688

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 13:08

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	99.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB022310
Page 1 of 1 Trip Blank

Lab Sample ID: QL34E


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4689

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 10:37

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	98.0%

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LIA

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-030510	104%	99.0%	0
LCS-030510	96.6%	104%	0
LCSD-030510	97.5%	101%	0
CB31A022310GRAB	105%	99.9%	0
CB31A022310GRAB-MS	97.1%	100%	0
CB31A022310GRAB-MSD	98.9%	101%	0
CB100022310GRAB	105%	100%	0
CB4857022310GRAB	107%	99.8%	0
CB1022310GRAB	108%	99.2%	0
TB022310	100%	98.0%	0


LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (80-133) (80-136)
(TOL) = d8-Toluene (80-121) (80-120)

Prep Method: SW5030
Log Number Range: 10-4685 to 10-4689

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: 
Reported: 03/09/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst MS: NT10/MH
MSD: NT10/MH
Date Analyzed MS: 03/05/10 18:08
MSD: 03/05/10 18:38

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
cis-1,2-Dichloroethene	< 0.020 U	1.12	1.00	112%	1.08	1.00	108%	3.6%
trans-1,2-Dichloroethene	< 0.020 U	0.925	1.00	92.5%	0.920	1.00	92.0%	0.5%
Trichloroethene	< 0.020 U	1.13	1.00	113%	1.08	1.00	108%	4.5%
Tetrachloroethene	< 0.020 U	1.13	1.00	113%	1.08	1.00	108%	4.5%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QL34A


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 18:08

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.1%
d8-Toluene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB
Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: QL34A

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 18:38

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.9%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-030510

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030510

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: NA

Reported: 03/09/10

Date Received: NA

Instrument/Analyst LCS: NT10/MH

Sample Amount LCS: 10.0 mL

LCS: NT10/MH

LCS: 10.0 mL

Date Analyzed LCS: 03/05/10 08:51

Purge Volume LCS: 10.0 mL

LCS: 03/05/10 09:21

LCS: 10.0 mL

Analyte	Spike		LCS		Spike		LCSD		RPD
	LCS	Added-LCS	Recovery	LCSD	Added-LCS	Recovery	LCSD		
cis-1,2-Dichloroethene	1.10	1.00	110%	1.09	1.00	109%	0.9%		
trans-1,2-Dichloroethene	0.965	1.00	96.5%	0.952	1.00	95.2%	1.4%		
Trichloroethene	1.13	1.00	113%	1.08	1.00	108%	4.5%		
Tetrachloroethene	1.16	1.00	116%	1.12	1.00	112%	3.5%		

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	96.6%	97.5%
d8-Toluene	104%	101%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QL34
 Lab File ID: 03050306
 Date Analyzed: 03/05/10
 Instrument ID: NT10

Client: FLOYD-SNIDER
 Project: POS-LLA
 Lab Sample ID: MB0305
 Time Analyzed: 0951
 Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0305	03050304	0851
02	LCSD0305	03050305	0921
03	TB022310	QL34E	1037
04	CB31A022310G	QL34A	1137
05	CB100022310G	QL34B	1207
06	CB4857022310	QL34C	1238
07	CB1022310GRA	QL34D	1308
08	CB31A022310G	QL34AMS	1808
09	CB31A022310G	QL34AMSD	1838
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18			

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-030510


Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-030510

LIMS ID: 10-4685

Matrix: Water

Data Release Authorized: 

Reported: 03/09/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT10/MH

Date Analyzed: 03/05/10 09:51

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	99.0%

TPHD ANALYSIS

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned


Page 1 of 1

Matrix: Water

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Data Release Authorized: 

Reported: 03/01/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-022510 10-4685	Method Blank HC ID: ---	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 72.5%
QL34A 10-4685	CB31A022310GRAB HC ID: DRO/MOTOR OIL	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	0.40 1.8 76.8%
QL34B 10-4686	CB100022310GRAB HC ID: DRO/MOTOR OIL	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	0.44 2.0 73.2%
QL34C 10-4687	CB4857022310GRAB HC ID: DRO/MOTOR OIL	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	0.29 1.3 76.7%
QL34D 10-4688	CB1022310GRAB HC ID: ---	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 78.8%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-022510	72.5%	0
LCS-022510	86.6%	0
CB31A022310GRAB	76.8%	0
CB31A022310GRAB MS	81.8%	0
CB31A022310GRAB MSD	81.3%	0
CB100022310GRAB	73.2%	0
CB4857022310GRAB	76.7%	0
CB1022310GRAB	78.8%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(51-120)

(41-121)

Prep Method: SW3510C
Log Number Range: 10-4685 to 10-4688

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1


Sample ID: CB31A022310GRAB

MS/MSD

Lab Sample ID: QL34A

LIMS ID: 10-4685

Matrix: Water

Data Release Authorized: 

Reported: 03/01/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: 02/23/10

Date Received: 02/24/10

Date Extracted MS/MSD: 02/25/10

Sample Amount MS: 500 mL

MSD: 500 mL

Date Analyzed MS: 02/26/10 17:34

Final Extract Volume MS: 1.0 mL

MSD: 02/26/10 17:59

MSD: 1.0 mL

Instrument/Analyst MS: FID/MS

Dilution Factor MS: 1.00

MSD: FID/MS

MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	0.40	2.43	3.00	67.7%	2.44	3.00	68.0%	0.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	81.8%	81.3%

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-022510

Page 1 of 1

LAB CONTROL

Lab Sample ID: LCS-022510

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/01/10

Date Received: 02/24/10

Date Extracted: 02/25/10

Sample Amount: 500 mL

Date Analyzed: 02/26/10 19:41

Final Extract Volume: 1.0 mL

Instrument/Analyst: FID/MS

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.15	3.00	71.7%

TPHD Surrogate Recovery

o-Terphenyl	86.6%
-------------	-------

Results reported in mg/L

4
TPH METHOD BLANK SUMMARY

BLANK NO.

QL34MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QL34

Project No.: LORA LAKE APTS.

Date Extracted: 02/25/10

Matrix: LIQUID

Date Analyzed : 02/26/10

Instrument ID : FID4A

Time Analyzed : 2007

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	CB31A022310G	QL34A	02/26/10
02	CB31A022310G	QL34AMS	02/26/10
03	CB31A022310G	QL34AMSD	02/26/10
04	CB100022310G	QL34B	02/26/10
05	CB4857022310	QL34C	02/26/10
06	CB1022310GRA	QL34D	02/26/10
07	QL34LCSW1	QL34LCSW1	02/26/10
08			
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Laboratory Data Package

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

Volatile Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-022510	Method Blank	10	109%	NA	NA	NA	0
LCS-022510	Lab Control	10	110%	NA	NA	NA	0
LCSD-022510	Lab Control Dup	10	105%	NA	NA	NA	0
QL34A	CB31A022310GRAB	10	112%	NA	NA	NA	0
QL34AMS	CB31A022310GRAB	10	110%	NA	NA	NA	0
QL34AMSD	CB31A022310GRAB	10	111%	NA	NA	NA	0
MB-030210	Method Blank	10	103%	NA	NA	NA	0
LCS-030210	Lab Control	10	105%	NA	NA	NA	0
LCSD-030210	Lab Control Dup	10	107%	NA	NA	NA	0
QL34B	CB100022310GRAB	10	110%	NA	NA	NA	0
QL34C	CB4857022310GRAB	10	109%	NA	NA	NA	0
QL34D	CB1022310GRAB	10	109%	NA	NA	NA	0
QL34E	TB022310	10	105%	NA	NA	NA	0

LCS/MB LIMITS

QC LIMITS

SW8260C

(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene
(BFB) = Bromofluorobenzene
(DCB) = d4-1,2-Dichlorobenzene

70-132
80-120
80-120
80-120

80-143
80-120
80-120
80-120

Prep Method: SW5030B
Log Number Range: 10-4685 to 10-4689

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A022310GRAB
MATRIX SPIKE

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: *B*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst MS: NT10/AAR
MSD: NT10/AAR
Date Analyzed MS: 03/02/10 20:02
MSD: 03/02/10 20:32

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2-Dichloroethane	< 0.2 U	11.1	10.0	111%	11.1	10.0	111%	0.0%


Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: LCS-022510
LAB CONTROL SAMPLE

Lab Sample ID: LCS-022510
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: 
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PKC
LCS: NT5/PKC
Date Analyzed LCS: 02/25/10 10:26
LCS: 02/25/10 10:51
Sample Amount LCS: 10.0 mL
LCS: 10.0 mL
Purge Volume LCS: 10.0 mL
LCS: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCS	LCS	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dichloroethane	10.1	10.0	101%	9.6	10.0	96.0%	5.1%	

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	110%	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-030210

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030210


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4686

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 03/05/10

Date Received: NA

Instrument/Analyst LCS: NT10/AAR

Sample Amount LCS: 10.0 mL

LCS: NT10/AAR

LCS: 10.0 mL

Date Analyzed LCS: 03/02/10 16:00

Purge Volume LCS: 10.0 mL

LCS: 03/02/10 16:29

LCS: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCS	LCS	Spike Added-LCS	LCS Recovery	RPD
1,2-Dichloroethane	10.7	10.0	107%	10.7	10.0	107%	0.0%	

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	105%	107%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0225A

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: QL34
 Lab File ID: 02251006
 Date Analyzed: 02/25/10
 Instrument ID: NT5

Client: FLOYD-SNIDER
 Project: LORA LAKE APARTMENTS
 Lab Sample ID: MB0225A
 Time Analyzed: 1143
 Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	-----	-----	-----	-----
01	LCS0225	LCS0225	02251003	1026
02	LCSD0225	LCSD0225	02251004	1051
03	TB022310	QL34E	02251009	1307
04	CB31A022310G	QL34A	02251023	1909
05	CB100022310G	QL34B	02251024	1935
06	CB4857022310	QL34C	02251025	2001
07	CB1022310GRA	QL34D	02251026	2026
08				
09				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0302

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Lab File ID: MB0302

Lab Sample ID: MB0302

Date Analyzed: 03/02/10

Time Analyzed: 1659

Instrument ID: NT10

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0302	LCS0302	LCS0302A	1600
02	LCS0302	LCS0302	LCS0302B	1629
03	CB31A022310G	QL34A	QL34AMS	2002
04	CB31A022310G	QL34A	QL34AMSD	2032
05				
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS SDG No.: QL34

Lab File ID: 01281004 BFB Injection Date: 01/28/10

Instrument ID: NT5 BFB Injection Time: 1417

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	13.2
75	30.0 - 66.0% of mass 95	41.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 101.0% of mass 95	84.0
175	4.0 - 9.0% of mass 174	5.7 (6.8)1
176	93.0 - 101.0% of mass 174	81.7 (97.2)1
177	5.0 - 9.0% of mass 176	5.5 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.2 PPB	0.2 0127	01281005	01/28/10	1506
02	0.5 PPB	0.5 0127	01281006	01/28/10	1532
03	1 PPB	1.0 0127	01281007	01/28/10	1557
04	2 PPB	2.0 0127	01281008	01/28/10	1623
05	10 PPB	10 0127	01281009	01/28/10	1648
06	20 PPB	20 0127	01281010	01/28/10	1714
07	40 PPB	40 0127	01281011	01/28/10	1740
08	60 PPB	60 0127	01281012	01/28/10	1805
09	ICV	ICV 0127	01281014	01/28/10	1857
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS SDG No.: QL34

Lab File ID: 02251001 BFB Injection Date: 02/25/10

Instrument ID: NT5 BFB Injection Time: 0924

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	13.8
75	30.0 - 66.0% of mass 95	42.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.4 (0.5)1
174	50.0 - 101.0% of mass 95	83.0
175	4.0 - 9.0% of mass 174	5.9 (7.1)1
176	93.0 - 101.0% of mass 174	78.7 (94.9)1
177	5.0 - 9.0% of mass 176	5.0 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0225	CC0225	02251002	02/25/10	1000
02	LCS0225	LCS0225	02251003	02/25/10	1026
03	LCSD0225	LCSD0225	02251004	02/25/10	1051
04	MB0225A	MB0225A	02251006	02/25/10	1143
05	TB022310	QL34E	02251009	02/25/10	1307
06	CB31A022310GRAB	QL34A	02251023	02/25/10	1909
07	CB100022310GRAB	QL34B	02251024	02/25/10	1935
08	CB4857022310GRAB	QL34C	02251025	02/25/10	2001
09	CB1022310GRAB	QL34D	02251026	02/25/10	2026
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS SDG No.: QL34

Lab File ID: BFB0302 BFB Injection Date: 03/02/10

Instrument ID: NT10 BFB Injection Time: 0945

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.5
75	30.0 - 66.0% of mass 95	52.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 101.0% of mass 95	77.6
175	4.0 - 9.0% of mass 174	5.8 (7.5)1
176	93.0 - 101.0% of mass 174	75.6 (97.4)1
177	5.0 - 9.0% of mass 176	5.1 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0302	CC0302	1000302A	03/02/10	1530
02	LCS0302	LCS0302	LCS0302A	03/02/10	1600
03	LCS0302	LCS0302	LCS0302B	03/02/10	1629
04	MB0302	MB0302	MB0302	03/02/10	1659
05	CB31A022310GRAB	QL34A	QL34AMS	03/02/10	2002
06	CB31A022310GRAB	QL34A	QL34AMSD	03/02/10	2032
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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Ical Midpoint ID: 01281009

Ical Date: 01/28/10

Instrument ID: NT5

Project Run Date: 01/28/10

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	471555	4.74	723083	5.19	624979	7.65
UPPER LIMIT	943110	5.24	1446166	5.69	1249958	8.15
LOWER LIMIT	235778	4.24	361542	4.69	312490	7.15
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 ICV	482476	4.74	734098	5.19	616173	7.65
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IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Ical Midpoint ID: 01281009

Ical Date: 01/28/10

Instrument ID: NT5

Project Run Date: 01/28/10

	IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	328841	9.71				
UPPER LIMIT	657682	10.21				
LOWER LIMIT	164420	9.21				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 ICV	324256	9.71				
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IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Ical Midpoint ID: 01281009

Ical Date: 01/28/10

Instrument ID: NT5

Project Run Date: 02/25/10

	IS1 (PFB)		IS2 (DFB)		IS3 (CLB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	471555	4.74	723083	5.19	624979	7.65
UPPER LIMIT	943110	5.24	1446166	5.69	1249958	8.15
LOWER LIMIT	235778	4.24	361542	4.69	312490	7.15
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0225	403290	4.75	630744	5.19	558517	7.65
02 LCSD0225	419100	4.75	636309	5.19	566441	7.65
03 MB0225A	393036	4.75	609469	5.19	552757	7.65
04 TB022310	394943	4.74	596312	5.19	546827	7.65
05 CB31A022310G	362813	4.75	561208	5.19	498907	7.65
06 CB100022310G	364961	4.75	560935	5.19	504636	7.65
07 CB4857022310	362678	4.75	554030	5.19	484865	7.65
08 CB1022310GRA	357592	4.74	550543	5.19	497570	7.65
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IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Ical Midpoint ID: 01281009

Ical Date: 01/28/10

Instrument ID: NT5

Project Run Date: 02/25/10

	IS4 (DCB)					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	328841	9.71				
UPPER LIMIT	657682	10.21				
LOWER LIMIT	164420	9.21				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0225	292453	9.71				
02 LCSD0225	294461	9.71				
03 MB0225A	269849	9.71				
04 TB022310	269394	9.71				
05 CB31A022310G	249211	9.71				
06 CB100022310G	258227	9.71				
07 CB4857022310	252262	9.71				
08 CB1022310GRA	251415	9.71				
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IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Ical Midpoint ID: 1000222

Ical Date: 02/22/10

Instrument ID: NT10

Project Run Date: 02/22/10

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
ICL MIDPT	456228	5.27	740651	5.66	686240	7.72
UPPER LIMIT	912456	5.77	1481302	6.16	1372480	8.22
LOWER LIMIT	228114	4.77	370326	5.16	343120	7.22
Sample ID						
01 ICV0222	431492	5.27	702592	5.66	655186	7.72
02						
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22						

IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: QL34
Ical Midpoint ID: 1000222
Instrument ID: NT10

Client: FLOYD-SNIDER
Project: LORA LAKE APARTMENTS
Ical Date: 02/22/10
Project Run Date: 02/22/10

	IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	249963	9.41				
UPPER LIMIT	499926	9.91				
LOWER LIMIT	124982	8.91				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 ICV0222	236007	9.40				
02						
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IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Ical Midpoint ID: 0400222

Ical Date: 02/22/10

Instrument ID: NT10

Project Run Date: 03/02/10

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	405719	5.27	648113	5.65	610243	7.72
UPPER LIMIT	811438	5.77	1296226	6.15	1220486	8.22
LOWER LIMIT	202860	4.77	324056	5.15	305122	7.22
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0302	452805	5.27	744237	5.66	710268	7.71
02 LCS0302	459238	5.27	763493	5.66	728056	7.72
03 MB0302	462398	5.27	765064	5.66	692991	7.72
04 CB31A022310G	405694	5.27	675231	5.66	652008	7.72
05 CB31A022310G	442086	5.27	740077	5.66	713599	7.72
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: QL34
Ical Midpoint ID: 0400222
Instrument ID: NT10

Client: FLOYD-SNIDER
Project: LORA LAKE APARTMENTS
Ical Date: 02/22/10
Project Run Date: 03/02/10

	IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	240346	9.41				
UPPER LIMIT	480692	9.91				
LOWER LIMIT	120173	8.91				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0302	288090	9.40				
02 LCS0302	291941	9.40				
03 MB0302	246407	9.40				
04 CB31A022310G	283924	9.40				
05 CB31A022310G	284772	9.40				
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

Volatile Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A022310GRAB
SAMPLE

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 02/25/10 19:09

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 112%

PC
3/1/10

Data File: /chem1/nt5.i/25FEB10.b/02251023.d
Report Date: 01-Mar-2010 10:38

Page 1

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/25FEB10.b/02251023.d
Lab Smp Id: QL34A Client Smp ID: CB31A022310GRAB
Inj Date : 25-FEB-2010 19:09
Operator : PC Inst ID: nt5.i
Smp Info : QL34A,10,10,0,
Misc Info : 10-4685
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:58 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85						
2 Chloromethane	50	1.170	1.164	(0.247)	3267	0.18245	0.1824 (M)
3 Vinyl Chloride	62						
4 Bromomethane	94						
5 Chloroethane	64						
6 Trichlorofluoromethane	101						
12 Acrolein	56	2.324	2.324	(0.490)	1543	1.60884	1.609
9 112Trichloro122Trifluoroethane	101						
14 Acetone	43	2.601	2.584	(0.548)	21416	11.7587	11.759
7 1,1-Dichloroethene	96						
11 Bromoethane	108						
10 Iodomethane	142						
13 Methylene Chloride	84						
18 Acrylonitrile	53						
16 Methyl tert butyl ether	73						
8 Carbon Disulfide	76						

QL34: 00075

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
15 Trans-1,2-Dichloroethene	96				Compound Not Detected.		
19 Vinyl Acetate	43				Compound Not Detected.		
17 1,1-Dichloroethane	63				Compound Not Detected.		
29 2-Butanone	72	4.411	4.400	(0.930)	2558	2.21340	2.213 (QM)
21 2,2-Dichloropropane	77				Compound Not Detected.		
20 Cis-1,2-Dichloroethene	96				Compound Not Detected.		
* 32 Pentafluorobenzene	168	4.745	4.740	(1.000)	362813	10.0000	
23 Chloroform	83				Compound Not Detected.		
22 Bromochloromethane	128				Compound Not Detected.		
\$ 25 Dibromofluoromethane	111	4.270	4.264	(0.900)	119102	9.29161	9.292
26 1,1,1-Trichloroethane	97				Compound Not Detected.		
28 1,1-Dichloropropene	75				Compound Not Detected.		
24 Carbon Tetrachloride	117				Compound Not Detected.		
\$ 31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	128485	11.2254	11.225
33 1,2-Dichloroethane	62				Compound Not Detected.		
30 Benzene	78	4.609	4.609	(0.889)	23188	0.27761	0.2776
* 35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	561208	10.0000	
34 Trichloroethene	130				Compound Not Detected.		
38 1,2-Dichloropropane	63				Compound Not Detected.		
39 Bromodichloromethane	83				Compound Not Detected.		
37 Dibromomethane	93				Compound Not Detected.		
40 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.		
45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	21918	6.68803	6.688 (Q)
41 Cis 1,3-dichloropropene	75				Compound Not Detected.		
\$ 42 d8-Toluene	98	6.352	6.352	(1.225)	593166	9.71665	9.717
43 Toluene	92	6.391	6.391	(1.232)	6721	0.12056	0.1206
46 Trans 1,3-Dichloropropene	75				Compound Not Detected.		
51 2-Hexanone	43				Compound Not Detected.		
47 1,1,2-Trichloroethane	97				Compound Not Detected.		
49 1,3-Dichloropropane	76				Compound Not Detected.		
44 Tetrachloroethene	166				Compound Not Detected.		
48 Chlorodibromomethane	129				Compound Not Detected.		
50 1,2-Dibromoethane	107				Compound Not Detected.		
* 52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	498907	10.0000	
53 Chlorobenzene	112				Compound Not Detected.		
54 Ethyl Benzene	91				Compound Not Detected.		
55 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
56 m,p-xylene	106				Compound Not Detected.		
57 o-Xylene	106				Compound Not Detected.		
58 Styrene	104				Compound Not Detected.		
60 Isopropyl Benzene	105				Compound Not Detected.		
59 Bromoform	173				Compound Not Detected.		
64 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	203767	9.07636	9.076
66 1,2,3-Trichloropropane	110				Compound Not Detected.		
68 Trans-1,4-Dichloro 2-Butene	53				Compound Not Detected.		
63 N-Propyl Benzene	91				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
62 Bromobenzene	156						
67 1,3,5-Trimethyl Benzene	105						
65 2-Chloro Toluene	91						
69 4-Chloro Toluene	91						
70 T-Butyl Benzene	119						
71 1,2,4-Trimethylbenzene	105						
72 S-Butyl Benzene	105						
73 4-Isopropyl Toluene	119						
74 1,3-Dichlorobenzene	146						
* 75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	249211	10.0000	
76 1,4-Dichlorobenzene	146						
77 N-Butyl Benzene	91						
\$ 78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	229385	10.4245	10.424
79 1,2-Dichlorobenzene	146						
81 1,2-Dibromo 3-Chloropropane	75						
83 1,2,4-Trichlorobenzene	180						
82 Hexachloro 1,3-Butadiene	225						
84 Naphthalene	128						
85 1,2,3-Trichlorobenzene	180						

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 02251023.d
 Lab Smp Id: QL34A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
 Misc Info: 10-4685

Calibration Date: 25-FEB-2010
 Calibration Time: 10:00
 Client Smp ID: CB31A022310GRAB
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	362813	-23.06
35 1,4-Difluorobenze	723083	361542	1446166	561208	-22.39
52 d5-Chlorobenzene	624979	312490	1249958	498907	-20.17
75 d4-1,4-Dichlorobe	328841	164420	657682	249211	-24.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34A
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-4685

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB31A022310GRAB
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.292	92.92	64-133
\$ 31 d4-1,2-Dichloroeth	10.000	11.225	112.25	80-132
\$ 42 d8-Toluene	10.000	9.717	97.17	80-120
\$ 61 4-Bromofluorobenze	10.000	9.076	90.76	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.424	104.24	80-120

Data File: /chemd/nt5.1/25FEB10.b/02251023.d

Date: 25-FEB-2010 19:09

Client ID: CB314022310GRAB

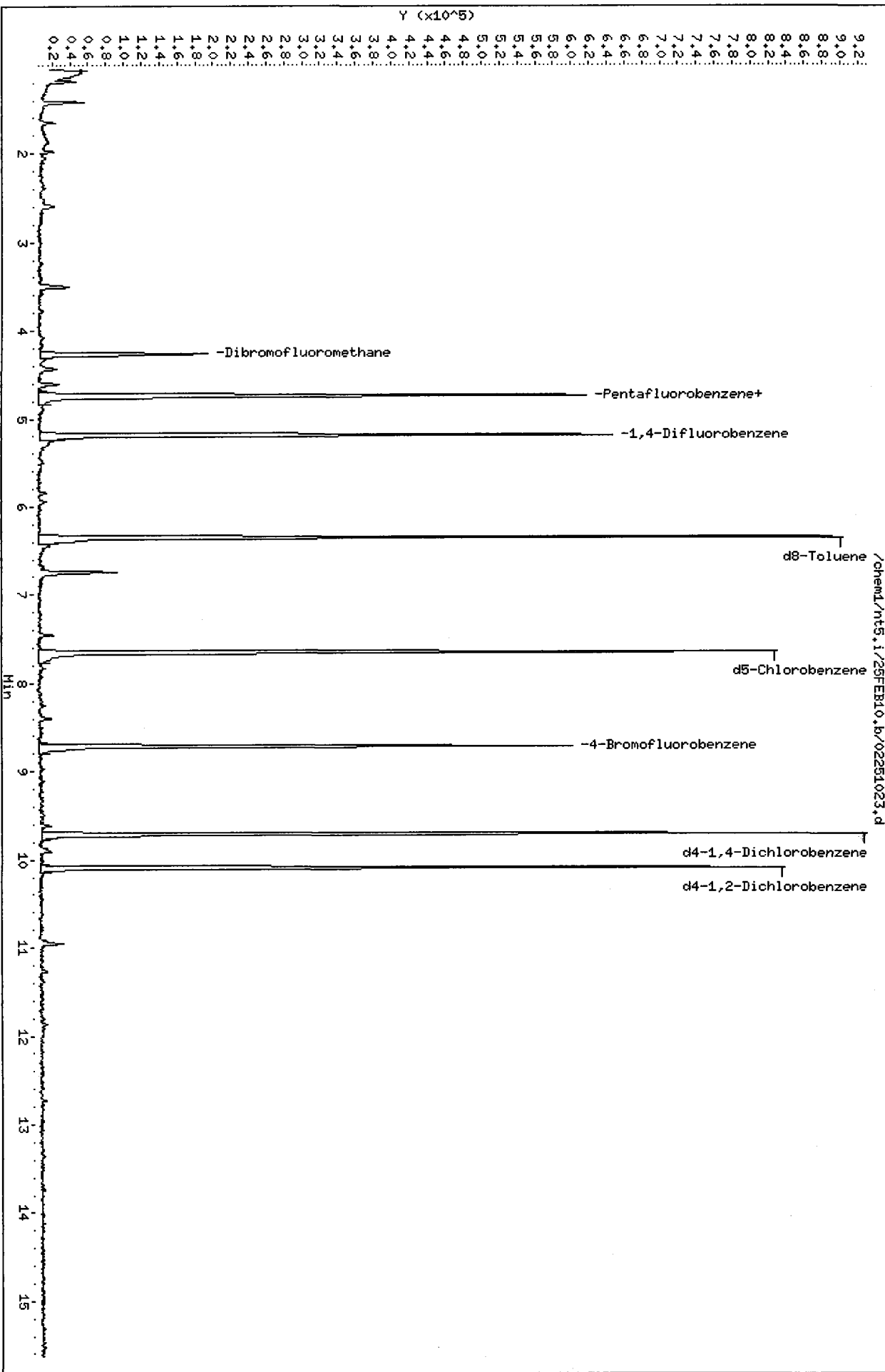
Sample Info: QL344.10.10.0,

Column phase: RTXVMS

Instrument: nt5.1

Operator: PC

Column diameter: 0.18



000000 : : 4334

ORGANICS ANALYSIS DATA SHEET


Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB100022310GRAB
SAMPLE

Lab Sample ID: QL34B

LIMS ID: 10-4686

Matrix: Water

Data Release Authorized: 

Reported: 03/05/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: 02/23/10

Date Received: 02/24/10

Instrument/Analyst: NT5/PKC

Date Analyzed: 02/25/10 19:35

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 110%

PC
3/1/10

Data File: /chem1/nt5.i/25FEB10.b/02251024.d
Report Date: 01-Mar-2010 10:38

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/25FEB10.b/02251024.d
Lab Smp Id: QL34B Client Smp ID: CB100022310GRAB
Inj Date : 25-FEB-2010 19:35
Operator : PC Inst ID: nt5.i
Smp Info : QL34B,10,10,0,
Misc Info : 10-4686
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:58 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85						
2 Chloromethane	50	1.164	1.164	(0.245)	2998	0.16641	0.1664 (M)
3 Vinyl Chloride	62						
4 Bromomethane	94						
5 Chloroethane	64						
6 Trichlorofluoromethane	101						
12 Acrolein	56	2.318	2.324	(0.489)	1685	1.74709	1.747 (M)
9 112Trichloro122Trifluoroethane	101						
14 Acetone	43	2.595	2.584	(0.547)	21300	11.6262	11.626
7 1,1-Dichloroethene	96						
11 Bromoethane	108						
10 Iodomethane	142						
13 Methylene Chloride	84						
18 Acrylonitrile	53						
16 Methyl tert butyl ether	73						
8 Carbon Disulfide	76						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
15 Trans-1,2-Dichloroethene	96				Compound Not Detected.		
19 Vinyl Acetate	43				Compound Not Detected.		
17 1,1-Dichloroethane	63				Compound Not Detected.		
29 2-Butanone	72	4.411	4.400	(0.930)	2504	2.15319	2.153(Q)
21 2,2-Dichloropropane	77				Compound Not Detected.		
20 Cis-1,2-Dichloroethene	96				Compound Not Detected.		
* 32 Pentafluorobenzene	168	4.745	4.740	(1.000)	364961	10.0000	
23 Chloroform	83				Compound Not Detected.		
22 Bromochloromethane	128				Compound Not Detected.		
\$ 25 Dibromofluoromethane	111	4.264	4.264	(0.899)	123146	9.55056	9.551
26 1,1,1-Trichloroethane	97				Compound Not Detected.		
28 1,1-Dichloropropane	75	4.179	4.389	(0.806)	3385	0.12229	0.1223(Q)
24 Carbon Tetrachloride	117				Compound Not Detected.		
\$ 31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	127197	11.0475	11.047
33 1,2-Dichloroethane	62				Compound Not Detected.		
30 Benzene	78	4.609	4.609	(0.889)	18418	0.22061	0.2206
* 35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	560935	10.0000	
34 Trichloroethene	130				Compound Not Detected.		
38 1,2-Dichloropropane	63				Compound Not Detected.		
39 Bromodichloromethane	83				Compound Not Detected.		
37 Dibromomethane	93				Compound Not Detected.		
40 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.		
45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	21982	6.71082	6.711
41 Cis 1,3-dichloropropene	75				Compound Not Detected.		
\$ 42 d8-Toluene	98	6.352	6.352	(1.225)	597429	9.79125	9.791
43 Toluene	92	6.391	6.391	(1.232)	7370	0.13227	0.1323(H)
46 Trans 1,3-Dichloropropene	75				Compound Not Detected.		
51 2-Hexanone	43				Compound Not Detected.		
47 1,1,2-Trichloroethane	97				Compound Not Detected.		
49 1,3-Dichloropropane	76				Compound Not Detected.		
44 Tetrachloroethene	166				Compound Not Detected.		
48 Chlorodibromomethane	129				Compound Not Detected.		
50 1,2-Dibromoethane	107				Compound Not Detected.		
* 52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	504636	10.0000	
53 Chlorobenzene	112				Compound Not Detected.		
54 Ethyl Benzene	91				Compound Not Detected.		
55 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
56 m,p-xylene	106				Compound Not Detected.		
57 o-Xylene	106				Compound Not Detected.		
58 Styrene	104				Compound Not Detected.		
60 Isopropyl Benzene	105				Compound Not Detected.		
59 Bromoform	173				Compound Not Detected.		
64 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	209732	9.23600	9.236
66 1,2,3-Trichloropropane	110				Compound Not Detected.		
68 Trans-1,4-Dichloro 2-Butene	53				Compound Not Detected.		
63 N-Propyl Benzene	91				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
62 Bromobenzene	156						
67 1,3,5-Trimethyl Benzene	105						
65 2-Chloro Toluene	91						
69 4-Chloro Toluene	91						
70 T-Butyl Benzene	119						
71 1,2,4-Trimethylbenzene	105						
72 S-Butyl Benzene	105						
73 4-Isopropyl Toluene	119						
74 1,3-Dichlorobenzene	146						
* 75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	258227	10.0000	
76 1,4-Dichlorobenzene	146						
77 N-Butyl Benzene	91						
\$ 78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	228904	10.0394	10.039
79 1,2-Dichlorobenzene	146						
81 1,2-Dibromo 3-Chloropropane	75						
83 1,2,4-Trichlorobenzene	180						
82 Hexachloro 1,3-Butadiene	225						
84 Naphthalene	128						
85 1,2,3-Trichlorobenzene	180						

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 02251024.d
Lab Smp Id: QL34B
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-4686

Calibration Date: 25-FEB-2010
Calibration Time: 10:00
Client Smp ID: CB100022310GRAB
Level: LOW
Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	364961	-22.60
35 1,4-Difluorobenze	723083	361542	1446166	560935	-22.42
52 d5-Chlorobenzene	624979	312490	1249958	504636	-19.26
75 d4-1,4-Dichlorobe	328841	164420	657682	258227	-21.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34B
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-4686

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB100022310GRAB
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.551	95.51	64-133
\$ 31 d4-1,2-Dichloroeth	10.000	11.047	110.47	80-132
\$ 42 d8-Toluene	10.000	9.791	97.91	80-120
\$ 61 4-Bromofluorobenze	10.000	9.236	92.36	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.039	100.39	80-120

Data File: /chem1/nt5.1/25FEB10,bv02251024.d

Date: 25-FEB-2010 19:35

Client ID: CB100022310GRAB

Sample Info: QL34B,10,10,0,

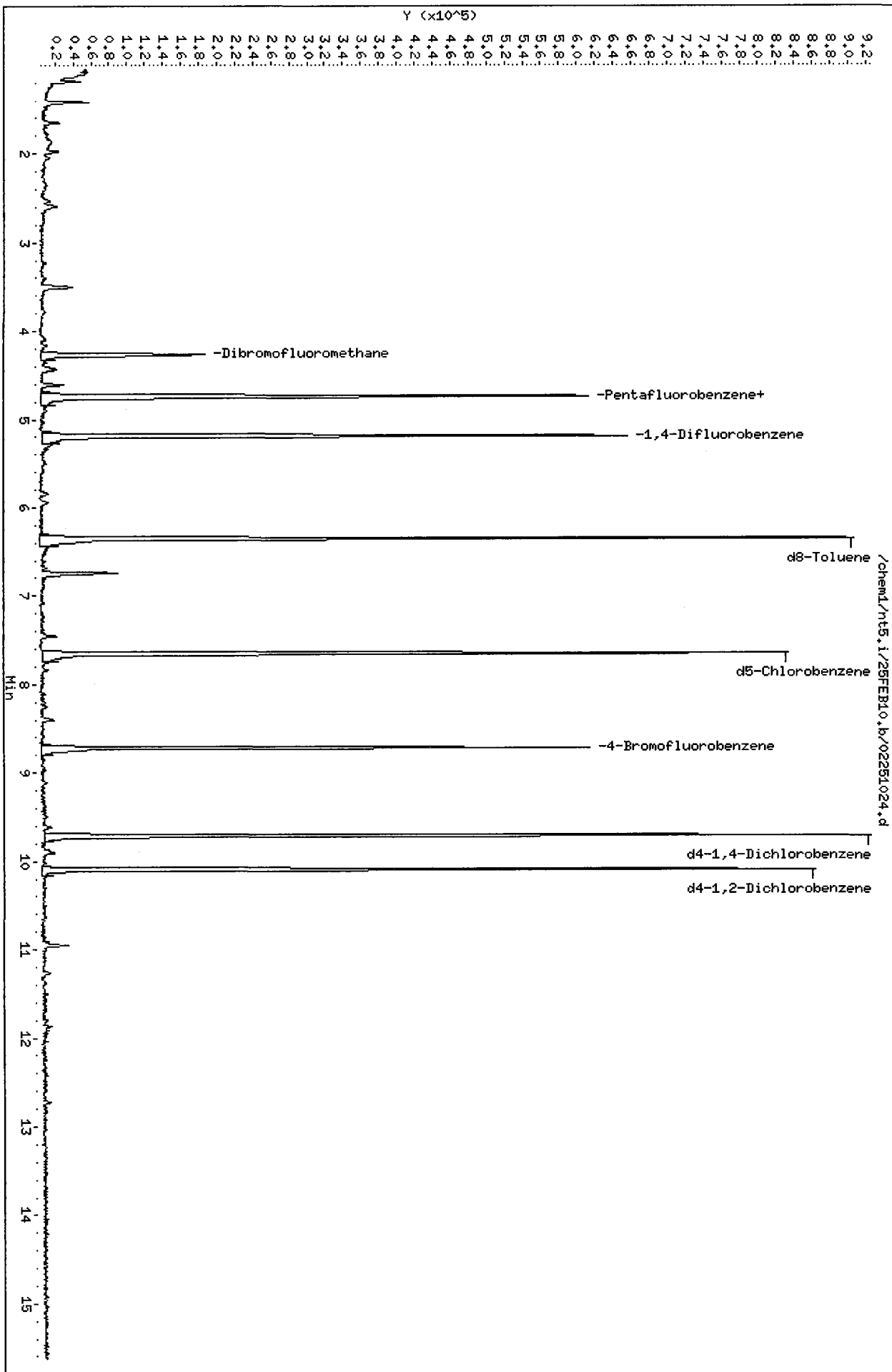
Page 6

Instrument: nt5.1

Operator: PC

Column diameter: 0.18

Column phase: RTXVMS




QL34 : 00007

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB4857022310GRAB
SAMPLE

Lab Sample ID: QL34C
LIMS ID: 10-4687
Matrix: Water
Data Release Authorized: 
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 02/25/10 20:01

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 109%

PC
3/1/10

Data File: /chem1/nt5.i/25FEB10.b/02251025.d
Report Date: 01-Mar-2010 10:38

Page 1

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/25FEB10.b/02251025.d
Lab Smp Id: QL34C Client Smp ID: CB4857022310GRAB
Inj Date : 25-FEB-2010 20:01
Operator : PC Inst ID: nt5.i
Smp Info : QL34C,10,10,0,
Misc Info : 10-4687
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:58 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85						
2 Chloromethane	50	1.164	1.164	(0.245)	3244	0.18118	0.1812
3 Vinyl Chloride	62						
4 Bromomethane	94						
5 Chloroethane	64						
6 Trichlorofluoromethane	101						
12 Acrolein	56	2.318	2.324	(0.489)	732	0.76352	0.7635
9 112Trichloro122Trifluoroethane	101						
14 Acetone	43	2.590	2.584	(0.546)	16926	9.29689	9.297
7 1,1-Dichloroethene	96						
11 Bromoethane	108						
10 Iodomethane	142						
13 Methylene Chloride	84						
18 Acrylonitrile	53						
16 Methyl tert butyl ether	73						
8 Carbon Disulfide	76						

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
15 Trans-1,2-Dichloroethene	96				Compound Not Detected.		
19 Vinyl Acetate	43				Compound Not Detected.		
17 1,1-Dichloroethane	63				Compound Not Detected.		
29 2-Butanone	72	4.417	4.400	(0.931)	1843	1.59480	1.595(M)
21 2,2-Dichloropropane	77				Compound Not Detected.		
20 Cis-1,2-Dichloroethene	96				Compound Not Detected.		
* 32 Pentafluorobenzene	168	4.745	4.740	(1.000)	362678	10.0000	
23 Chloroform	83				Compound Not Detected.		
22 Bromochloromethane	128				Compound Not Detected.		
\$ 25 Dibromofluoromethane	111	4.270	4.264	(0.900)	122506	9.56073	9.561
26 1,1,1-Trichloroethane	97				Compound Not Detected.		
28 1,1-Dichloropropene	75				Compound Not Detected.		
24 Carbon Tetrachloride	117				Compound Not Detected.		
\$ 31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	124843	10.9113	10.911
33 1,2-Dichloroethane	62				Compound Not Detected.		
30 Benzene	78	4.609	4.609	(0.889)	16095	0.19519	0.1952
* 35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	554030	10.0000	
34 Trichloroethene	130				Compound Not Detected.		
38 1,2-Dichloropropane	63				Compound Not Detected.		
39 Bromodichloromethane	83				Compound Not Detected.		
37 Dibromomethane	93				Compound Not Detected.		
40 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.		
45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	15571	4.81287	4.813(Q)
41 Cis 1,3-dichloropropene	75				Compound Not Detected.		
\$ 42 d8-Toluene	98	6.352	6.352	(1.225)	586240	9.72762	9.728
43 Toluene	92				Compound Not Detected.		
46 Trans 1,3-Dichloropropene	75				Compound Not Detected.		
51 2-Hexanone	43				Compound Not Detected.		
47 1,1,2-Trichloroethane	97				Compound Not Detected.		
49 1,3-Dichloropropane	76				Compound Not Detected.		
44 Tetrachloroethene	166				Compound Not Detected.		
48 Chlorodibromomethane	129				Compound Not Detected.		
50 1,2-Dibromoethane	107				Compound Not Detected.		
* 52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	484865	10.0000	
53 Chlorobenzene	112				Compound Not Detected.		
54 Ethyl Benzene	91				Compound Not Detected.		
55 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
56 m,p-xylene	106				Compound Not Detected.		
57 o-Xylene	106				Compound Not Detected.		
58 Styrene	104				Compound Not Detected.		
60 Isopropyl Benzene	105				Compound Not Detected.		
59 Bromoform	173				Compound Not Detected.		
64 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	201042	9.21433	9.214
66 1,2,3-Trichloropropane	110				Compound Not Detected.		
68 Trans-1,4-Dichloro 2-Butene	53				Compound Not Detected.		
63 N-Propyl Benzene	91				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
62 Bromobenzene	156				Compound Not Detected.		
67 1,3,5-Trimethyl Benzene	105				Compound Not Detected.		
65 2-Chloro Toluene	91				Compound Not Detected.		
69 4-Chloro Toluene	91				Compound Not Detected.		
70 T-Butyl Benzene	119				Compound Not Detected.		
71 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
72 S-Butyl Benzene	105				Compound Not Detected.		
73 4-Isopropyl Toluene	119				Compound Not Detected.		
74 1,3-Dichlorobenzene	146				Compound Not Detected.		
* 75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	252262	10.0000	
76 1,4-Dichlorobenzene	146				Compound Not Detected.		
77 N-Butyl Benzene	91				Compound Not Detected.		
§ 78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	226091	10.1505	10.150
79 1,2-Dichlorobenzene	146				Compound Not Detected.		
81 1,2-Dibromo 3-Chloropropane	75				Compound Not Detected.		
83 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
82 Hexachloro 1,3-Butadiene	225				Compound Not Detected.		
84 Naphthalene	128				Compound Not Detected.		
85 1,2,3-Trichlorobenzene	180				Compound Not Detected.		

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt5.i
Lab File ID: 02251025.d
Lab Smp Id: QL34C
Analysis Type: VOA
Quant Type: ISTD
Operator: PC
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-4687

Calibration Date: 25-FEB-2010
Calibration Time: 10:00
Client Smp ID: CB4857022310GRAB
Level: LOW
Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	362678	-23.09
35 1,4-Difluorobenze	723083	361542	1446166	554030	-23.38
52 d5-Chlorobenzene	624979	312490	1249958	484865	-22.42
75 d4-1,4-Dichlorobe	328841	164420	657682	252262	-23.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

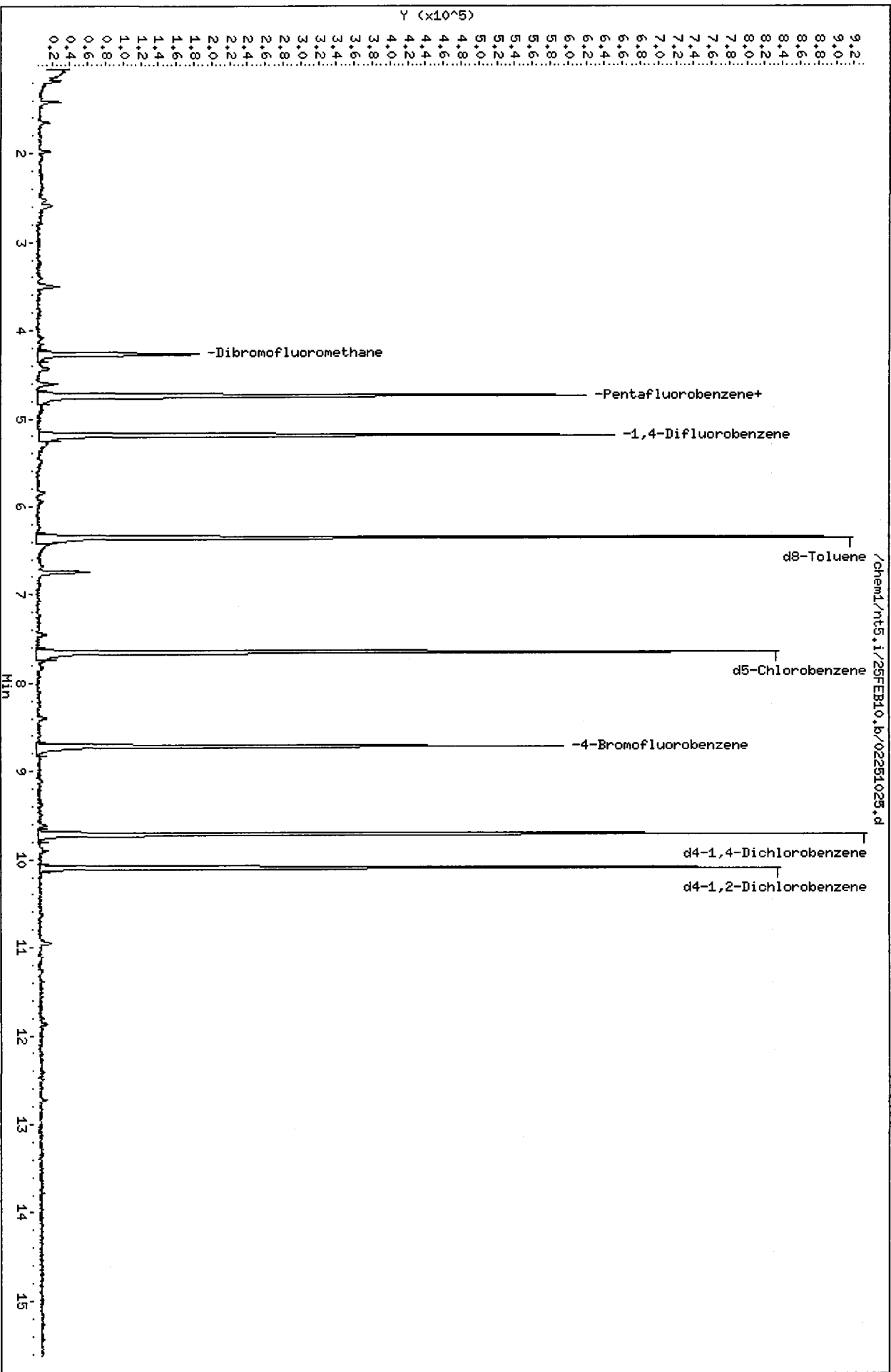
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34C
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-4687

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB4857022310GRAB
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.561	95.61	64-133
\$ 31 d4-1,2-Dichloroeth	10.000	10.911	109.11	80-132
\$ 42 d8-Toluene	10.000	9.728	97.28	80-120
\$ 61 4-Bromofluorobenze	10.000	9.214	92.14	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.150	101.50	80-120

Data File: /chemd/nt5.1/25FEB10.b/02251025.d
 Date : 25-FEB-2010 20:01
 Client ID: CB4857022310GRAB
 Sample Info: QL34C,10,10,0,
 Column phase: RTXVMS

Instrument: nt5.i
 Operator: PC
 Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB1022310GRAB
SAMPLE

Lab Sample ID: QL34D
LIMS ID: 10-4688
Matrix: Water
Data Release Authorized: *AS*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 02/25/10 20:26

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 109%

PC
3/11/10

Data File: /chem1/nt5.i/25FEB10.b/02251026.d
Report Date: 01-Mar-2010 10:38

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/25FEB10.b/02251026.d
Lab Smp Id: QL34D Client Smp ID: CB1022310GRAB
Inj Date : 25-FEB-2010 20:26
Operator : PC Inst ID: nt5.i
Smp Info : QL34D,10,10,0,
Misc Info : 10-4688
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:58 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85						
2 Chloromethane	50						
3 Vinyl Chloride	62						
4 Bromomethane	94						
5 Chloroethane	64						
6 Trichlorofluoromethane	101						
12 Acrolein	56						
9 112Trichloro122Trifluoroethane	101						
14 Acetone	43	2.601	2.584	(0.548)	7420	4.13353	4.134
7 1,1-Dichloroethene	96						
11 Bromoethane	108						
10 Iodomethane	142						
13 Methylene Chloride	84						
18 Acrylonitrile	53						
16 Methyl tert butyl ether	73						
8 Carbon Disulfide	76						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
15 Trans-1,2-Dichloroethene	96				Compound Not Detected.		
19 Vinyl Acetate	43				Compound Not Detected.		
17 1,1-Dichloroethane	63				Compound Not Detected.		
29 2-Butanone	72				Compound Not Detected.		
21 2,2-Dichloropropane	77				Compound Not Detected.		
20 Cis-1,2-Dichloroethene	96				Compound Not Detected.		
* 32 Pentafluorobenzene	168	4.745	4.740	(1.000)	357592	10.0000	
23 Chloroform	83				Compound Not Detected.		
22 Bromochloromethane	128				Compound Not Detected.		
\$ 25 Dibromofluoromethane	111	4.270	4.264	(0.900)	119126	9.42917	9.429
26 1,1,1-Trichloroethane	97				Compound Not Detected.		
28 1,1-Dichloropropene	75				Compound Not Detected.		
24 Carbon Tetrachloride	117				Compound Not Detected.		
\$ 31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	123285	10.9284	10.928
33 1,2-Dichloroethane	62				Compound Not Detected.		
30 Benzene	78				Compound Not Detected.		
* 35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	550543	10.0000	
34 Trichloroethene	130				Compound Not Detected.		
38 1,2-Dichloropropane	63				Compound Not Detected.		
39 Bromodichloromethane	83				Compound Not Detected.		
37 Dibromomethane	93				Compound Not Detected.		
40 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.		
45 4-Methyl-2-Pentanone	58				Compound Not Detected.		
41 Cis 1,3-dichloropropene	75				Compound Not Detected.		
\$ 42 d8-Toluene	98	6.352	6.352	(1.225)	601961	10.0517	10.052
43 Toluene	92				Compound Not Detected.		
46 Trans 1,3-Dichloropropene	75				Compound Not Detected.		
51 2-Hexanone	43				Compound Not Detected.		
47 1,1,2-Trichloroethane	97				Compound Not Detected.		
49 1,3-Dichloropropane	76				Compound Not Detected.		
44 Tetrachloroethene	166				Compound Not Detected.		
48 Chlorodibromomethane	129				Compound Not Detected.		
50 1,2-Dibromoethane	107				Compound Not Detected.		
* 52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	497570	10.0000	
53 Chlorobenzene	112				Compound Not Detected.		
54 Ethyl Benzene	91				Compound Not Detected.		
55 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
56 m,p-xylene	106				Compound Not Detected.		
57 o-Xylene	106				Compound Not Detected.		
58 Styrene	104				Compound Not Detected.		
60 Isopropyl Benzene	105				Compound Not Detected.		
59 Bromoform	173				Compound Not Detected.		
64 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	209725	9.36685	9.367
66 1,2,3-Trichloropropane	110				Compound Not Detected.		
68 Trans-1,4-Dichloro 2-Butene	53				Compound Not Detected.		
63 N-Propyl Benzene	91				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
62 Bromobenzene	156				Compound Not Detected.		
67 1,3,5-Trimethyl Benzene	105				Compound Not Detected.		
65 2-Chloro Toluene	91				Compound Not Detected.		
69 4-Chloro Toluene	91				Compound Not Detected.		
70 T-Butyl Benzene	119				Compound Not Detected.		
71 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
72 S-Butyl Benzene	105				Compound Not Detected.		
73 4-Isopropyl Toluene	119				Compound Not Detected.		
74 1,3-Dichlorobenzene	146				Compound Not Detected.		
* 75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	251415	10.0000	
76 1,4-Dichlorobenzene	146				Compound Not Detected.		
77 N-Butyl Benzene	91				Compound Not Detected.		
\$ 78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	224745	10.1241	10.124
79 1,2-Dichlorobenzene	146				Compound Not Detected.		
81 1,2-Dibromo 3-Chloropropane	75				Compound Not Detected.		
83 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
82 Hexachloro 1,3-Butadiene	225				Compound Not Detected.		
84 Naphthalene	128				Compound Not Detected.		
85 1,2,3-Trichlorobenzene	180				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 02251026.d
 Lab Smp Id: QL34D
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
 Misc Info: 10-4688

Calibration Date: 25-FEB-2010
 Calibration Time: 10:00
 Client Smp ID: CB1022310GRAB
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	357592	-24.17
35 1,4-Difluorobenze	723083	361542	1446166	550543	-23.86
52 d5-Chlorobenzene	624979	312490	1249958	497570	-20.39
75 d4-1,4-Dichlorobe	328841	164420	657682	251415	-23.55

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34D
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-4688

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB1022310GRAB
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.429	94.29	64-133
\$ 31 d4-1,2-Dichloroeth	10.000	10.928	109.28	80-132
\$ 42 d8-Toluene	10.000	10.052	100.52	80-120
\$ 61 4-Bromofluorobenze	10.000	9.367	93.67	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.124	101.24	80-120

Data File: /chem1/nt5.1/25FEB10.b/02251026.d

Date: 25-FEB-2010 20:26

Client ID: CB1022310GRAB

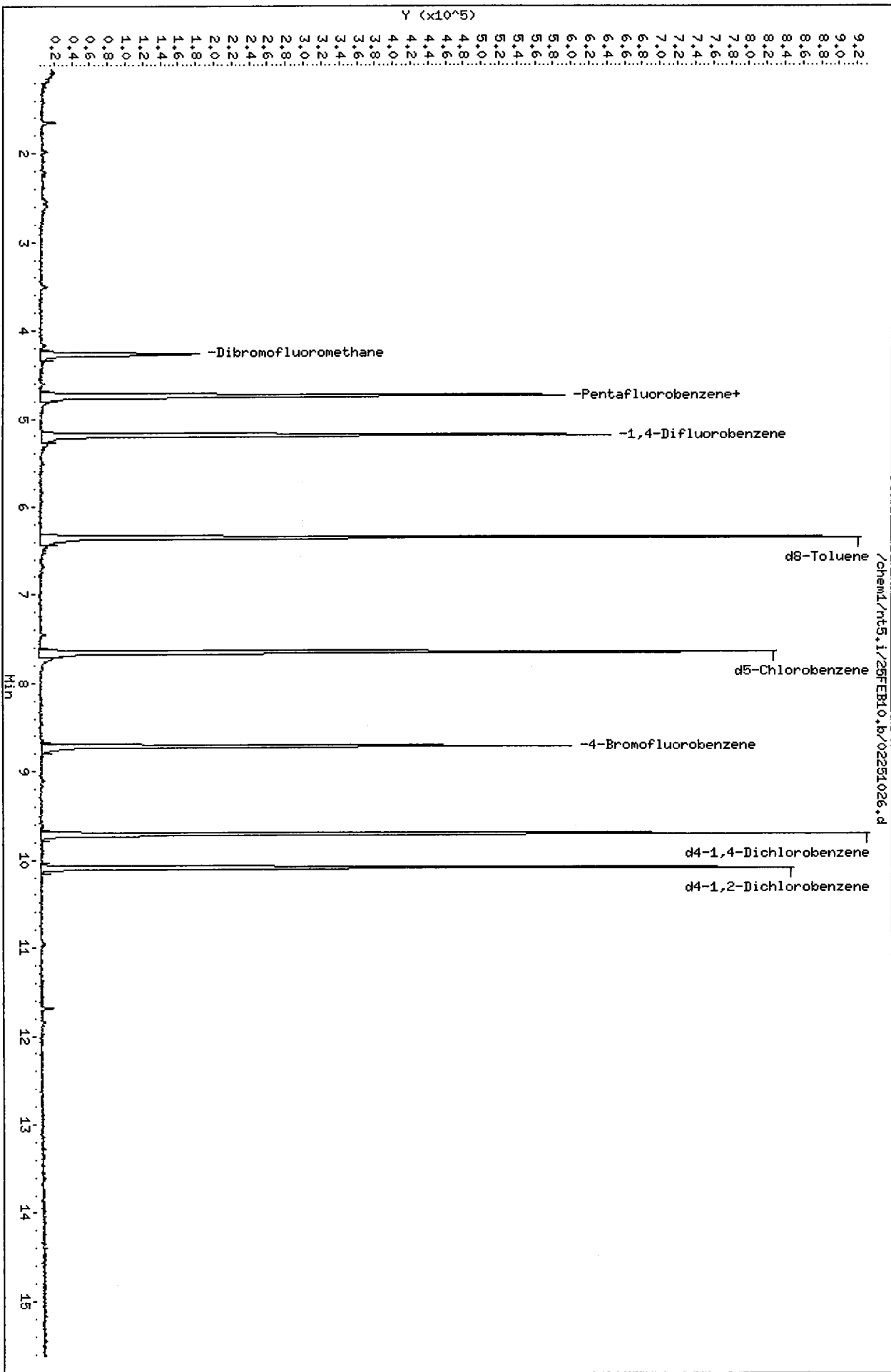
Sample Info: QL34D.10.10.0,

Column phase: RTXVHS

Instrument: nt5.1

Operator: PC

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: TB022310
Trip Blank

Lab Sample ID: QL34E

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4689

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *B*

Date Sampled: 02/23/10

Reported: 03/05/10

Date Received: 02/24/10

Instrument/Analyst: NT5/PKC

Sample Amount: 10.0 mL

Date Analyzed: 02/25/10 13:07

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 105%

PK
3/1/10

Data File: /chem1/nt5.i/25FEB10.b/02251009.d
Report Date: 01-Mar-2010 10:38

Page 1

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/25FEB10.b/02251009.d
Lab Smp Id: QL34E Client Smp ID: TB022310
Inj Date : 25-FEB-2010 13:07
Operator : PC Inst ID: nt5.i
Smp Info : QL34E,10,10,0,
Misc Info : 10-4689
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:58 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85						
2 Chloromethane	50						
3 Vinyl Chloride	62						
4 Bromomethane	94						
5 Chloroethane	64						
6 Trichlorofluoromethane	101						
12 Acrolein	56						
9 112Trichloro122Trifluoroethane	101						
14 Acetone	43	2.607	2.584	(0.549)	2365	1.19307	1.193 (M)
7 1,1-Dichloroethene	96						
11 Bromoethane	108						
10 Iodomethane	142						
13 Methylene Chloride	84						
18 Acrylonitrile	53						
16 Methyl tert butyl ether	73						
8 Carbon Disulfide	76						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
15 Trans-1,2-Dichloroethene	96				Compound Not Detected.		
19 Vinyl Acetate	43				Compound Not Detected.		
17 1,1-Dichloroethane	63				Compound Not Detected.		
29 2-Butanone	72				Compound Not Detected.		
21 2,2-Dichloropropane	77				Compound Not Detected.		
20 Cis-1,2-Dichloroethene	96				Compound Not Detected.		
* 32 Pentafluorobenzene	168	4.745	4.740	(1.000)	394943	10.0000	
23 Chloroform	83				Compound Not Detected.		
22 Bromochloromethane	128				Compound Not Detected.		
\$ 25 Dibromofluoromethane	111	4.270	4.264	(0.900)	130293	9.33773	9.338
26 1,1,1-Trichloroethane	97				Compound Not Detected.		
28 1,1-Dichloropropane	75				Compound Not Detected.		
24 Carbon Tetrachloride	117				Compound Not Detected.		
\$ 31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	130552	10.4781	10.478
33 1,2-Dichloroethane	62				Compound Not Detected.		
30 Benzene	78				Compound Not Detected.		
* 35 1,4-Difluorobenzene	114	5.192	5.186	(1.000)	596312	10.0000	
34 Trichloroethene	130				Compound Not Detected.		
38 1,2-Dichloropropane	63				Compound Not Detected.		
39 Bromodichloromethane	83				Compound Not Detected.		
37 Dibromomethane	93				Compound Not Detected.		
40 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.		
45 4-Methyl-2-Pentanone	58				Compound Not Detected.		
41 Cis 1,3-dichloropropene	75				Compound Not Detected.		
\$ 42 d8-Toluene	98	6.351	6.352	(1.223)	658600	10.1534	10.153
43 Toluene	92				Compound Not Detected.		
46 Trans 1,3-Dichloropropene	75				Compound Not Detected.		
51 2-Hexanone	43				Compound Not Detected.		
47 1,1,2-Trichloroethane	97				Compound Not Detected.		
49 1,3-Dichloropropane	76				Compound Not Detected.		
44 Tetrachloroethene	166				Compound Not Detected.		
48 Chlorodibromomethane	129				Compound Not Detected.		
50 1,2-Dibromoethane	107				Compound Not Detected.		
* 52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	546827	10.0000	
53 Chlorobenzene	112				Compound Not Detected.		
54 Ethyl Benzene	91				Compound Not Detected.		
55 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
56 m,p-xylene	106				Compound Not Detected.		
57 o-Xylene	106				Compound Not Detected.		
58 Styrene	104				Compound Not Detected.		
60 Isopropyl Benzene	105				Compound Not Detected.		
59 Bromoform	173				Compound Not Detected.		
64 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	217814	8.85184	8.852
66 1,2,3-Trichloropropane	110				Compound Not Detected.		
68 Trans-1,4-Dichloro 2-Butene	53				Compound Not Detected.		
63 N-Propyl Benzene	91				Compound Not Detected.		

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
62 Bromobenzene	156							
67 1,3,5-Trimethyl Benzene	105							
65 2-Chloro Toluene	91							
69 4-Chloro Toluene	91							
70 T-Butyl Benzene	119							
71 1,2,4-Trimethylbenzene	105							
72 S-Butyl Benzene	105							
73 4-Isopropyl Toluene	119							
74 1,3-Dichlorobenzene	146							
* 75 d4-1,4-Dichlorobenzene	152		9.712	9.712	(1.000)	269394	10.0000	
76 1,4-Dichlorobenzene	146							
77 N-Butyl Benzene	91							
\$ 78 d4-1,2-Dichlorobenzene	152		10.091	10.091	(1.039)	239398	10.0644	10.064
79 1,2-Dichlorobenzene	146							
81 1,2-Dibromo 3-Chloropropane	75							
83 1,2,4-Trichlorobenzene	180							
82 Hexachloro 1,3-Butadiene	225							
84 Naphthalene	128							
85 1,2,3-Trichlorobenzene	180							

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 02251009.d
 Lab Smp Id: QL34E
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
 Misc Info: 10-4689

Calibration Date: 25-FEB-2010
 Calibration Time: 10:00
 Client Smp ID: TB022310
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	394943	-16.25
35 1,4-Difluorobenze	723083	361542	1446166	596312	-17.53
52 d5-Chlorobenzene	624979	312490	1249958	546827	-12.50
75 d4-1,4-Dichlorobe	328841	164420	657682	269394	-18.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.11
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.10
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34E
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-4689

Client SDG: QL34
Fraction: VOA
Client Smp ID: TB022310
Operator: PC
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.338	93.38	64-133
\$ 31 d4-1,2-Dichloroeth	10.000	10.478	104.78	80-132
\$ 42 d8-Toluene	10.000	10.153	101.53	80-120
\$ 61 4-Bromofluorobenze	10.000	8.852	88.52	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.064	100.64	80-120

Data File: /chem1/nt5.1/25FEB10.b/02251009.d

Date: 25-FEB-2010 13:07

Client ID: TB022310

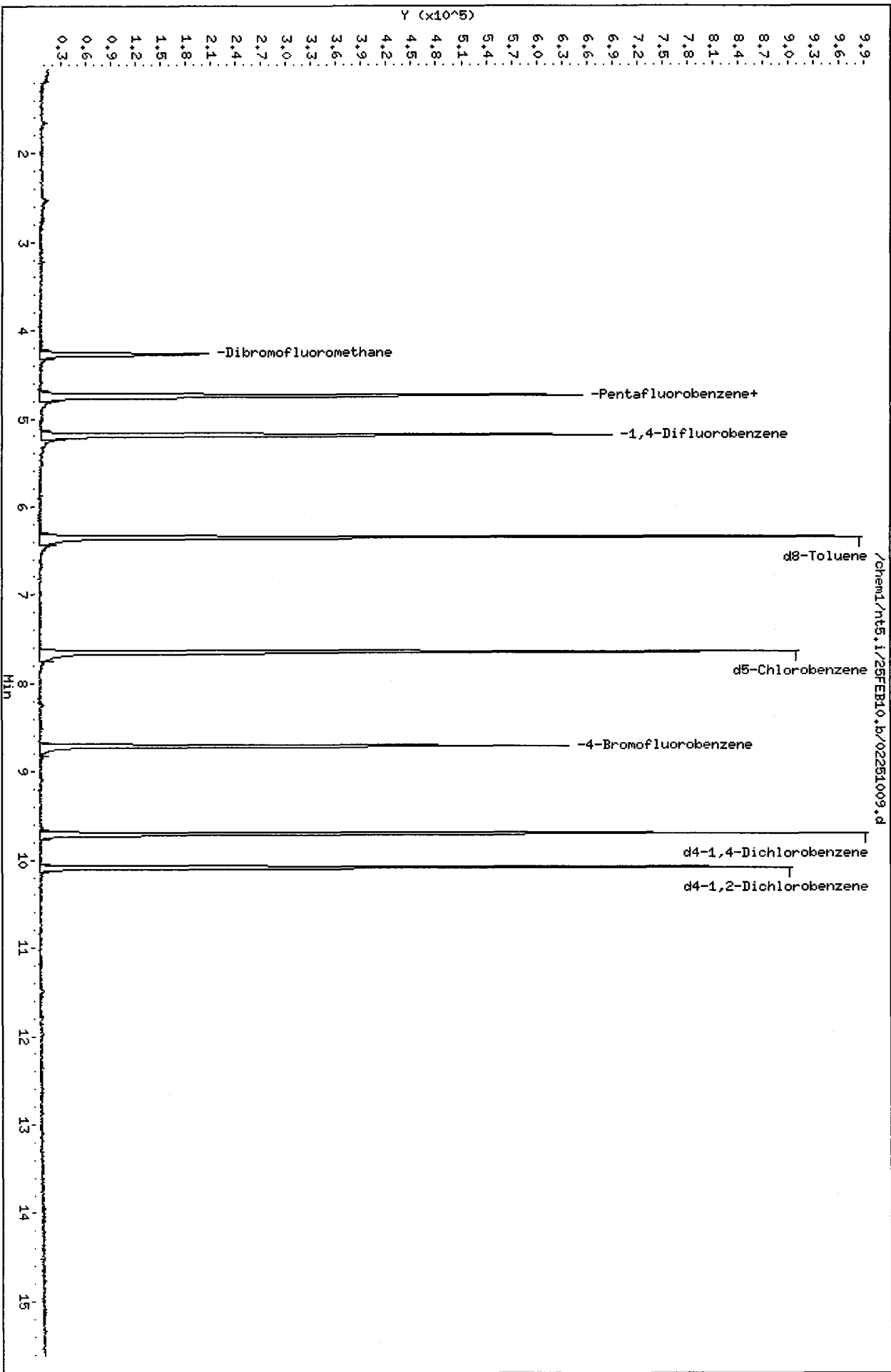
Sample Info: QL34E,10,10,0,

Column phase: RTXVMS

Instrument: nt5.1

Operator: PC

Column diameter: 0.18



Volatile Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

LAB FILE ID: RF0.2: 01281005 RF0.5: 01281006 RF1: 01281007
RF2: 01281008 RF10: 01281009

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF10
Chloromethane	0.496	0.454	0.459	0.503	0.501
Vinyl Chloride	0.574	0.573	0.548	0.624	0.602
Bromomethane	0.364	0.376	0.338	0.374	0.398
Chloroethane	0.449	0.405	0.381	0.405	0.382
Trichlorofluoromethane	0.607	0.707	0.702	0.721	0.716
Acrolein			0.024	0.024	0.023
1,1,2-Trichloroethane	0.532	0.522	0.510	0.532	0.527
Acetone		0.052	0.054	0.048	0.048
1,1-Dichloroethene	0.616	0.542	0.530	0.557	0.547
Bromoethane	0.440	0.399	0.380	0.395	0.396
Iodomethane		0.807	0.791	0.834	0.799
Methylene Chloride		0.525	0.557	0.551	0.536
Acrylonitrile			0.085	0.083	0.076
Carbon Disulfide	1.751	1.719	1.759	1.829	1.799
Trans-1,2-Dichloroethene	0.613	0.574	0.624	0.594	0.593
Vinyl Acetate			0.494	0.516	0.517
1,1-Dichloroethane	0.916	0.879	0.865	0.877	0.878
2-Butanone		0.030	0.035	0.030	0.031
2,2-Dichloropropane	0.811	0.764	0.770	0.770	0.770
Cis-1,2-Dichloroethene	0.642	0.595	0.602	0.591	0.580
Chloroform	0.924	0.839	0.836	0.855	0.831
Bromochloromethane	0.240	0.240	0.242	0.240	0.246
1,1,1-Trichloroethane	0.755	0.776	0.769	0.762	0.790
1,1-Dichloropropene	0.529	0.492	0.495	0.485	0.470
Carbon Tetrachloride	0.378	0.375	0.408	0.424	0.426
1,2-Dichloroethane	0.334	0.330	0.290	0.316	0.318
Benzene	1.547	1.513	1.465	1.479	1.452
Trichloroethene	0.452	0.405	0.388	0.404	0.398
1,2-Dichloropropane	0.328	0.331	0.323	0.331	0.313
Bromodichloromethane	0.389	0.379	0.348	0.374	0.367
Dibromomethane	0.158	0.135	0.138	0.143	0.137
2-Chloroethyl Vinyl Ether			0.113	0.113	0.114
4-Methyl-2-Pentanone		0.055	0.057	0.062	0.057
Cis 1,3-dichloropropene	0.505	0.524	0.516	0.523	0.503
Toluene	1.083	0.981	0.979	0.980	0.965
Trans 1,3-Dichloropropene	0.568	0.396	0.372	0.387	0.398
2-Hexanone		0.100	0.087	0.094	0.092

FORM VI VOA

QL34:00110

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

LAB FILE ID: RF0.2: 01281005 RF0.5: 01281006 RF1: 01281007

RF2: 01281008 RF10: 01281009

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF10
1,1,2-Trichloroethane	0.223	0.219	0.217	0.215	0.217
1,3-Dichloropropane	0.480	0.437	0.448	0.442	0.442
Tetrachloroethene	0.500	0.506	0.476	0.506	0.483
Chlorodibromomethane	0.320	0.279	0.284	0.296	0.296
1,2-Dibromoethane	0.233	0.204	0.214	0.213	0.205
Chlorobenzene	1.210	1.122	1.180	1.218	1.173
Ethyl Benzene	2.425	2.156	2.187	2.193	2.151
1,1,1,2-Tetrachloroethane	0.424	0.369	0.388	0.400	0.378
m,p-xylene	0.897	0.820	0.838	0.845	0.808
o-Xylene	0.819	0.778	0.787	0.817	0.798
Styrene	1.545	1.262	1.228	1.266	1.277
Bromoform	0.276	0.268	0.301	0.289	0.273
1,1,2,2-Tetrachloroethane	0.610	0.488	0.446	0.446	0.443
1,2,3-Trichloropropane		0.152	0.131	0.138	0.126
Trans-1,4-Dichloro 2-Butene		0.128	0.127	0.142	0.125
N-Propyl Benzene	4.806	4.498	4.437	4.411	4.135
Bromobenzene	1.047	0.921	0.928	0.930	0.881
Isopropyl Benzene	3.972	4.044	3.886	3.985	3.738
2-Chloro Toluene	2.982	2.604	2.655	2.578	2.507
4-Chloro Toluene	3.056	2.712	2.590	2.630	2.542
T-Butyl Benzene	2.951	2.785	2.738	2.844	2.595
1,3,5-Trimethyl Benzene	3.524	3.208	3.188	3.267	3.017
1,2,4-Trimethylbenzene	3.591	3.255	3.178	3.239	3.090
S-Butyl Benzene	4.288	4.183	4.010	4.037	3.660
4-Isopropyl Toluene	3.746	3.291	3.366	3.352	3.100
1,3-Dichlorobenzene	2.444	1.806	1.792	1.761	1.669
1,4-Dichlorobenzene	2.439	1.964	1.797	1.832	1.673
N-Butyl Benzene	3.478	2.904	2.876	2.823	2.571
1,2-Dichlorobenzene	1.937	1.666	1.556	1.572	1.482
1,2-Dibromo 3-Chloropropane		0.099	0.090	0.084	0.070
1,2,4-Trichlorobenzene		1.273	1.081	1.092	0.999
Hexachloro 1,3-Butadiene		0.442	0.434	0.442	0.317
Naphthalene		2.021	1.877	1.983	1.833
1,2,3-Trichlorobenzene		0.961	0.938	0.894	0.781
Methyl tert butyl ether	1.038	1.055	1.035	1.090	1.063
Dichlorodifluoromethane	0.339	0.319	0.299	0.371	0.358
Hexane	0.871	0.706	0.706	0.674	0.628

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

LAB FILE ID: RF0.2: 01281005 RF0.5: 01281006 RF1: 01281007
RF2: 01281008 RF10: 01281009

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF10
d4-1,2-Dichloroethane	0.307	0.315	0.324	0.312	0.324
d8-Toluene	1.064	1.082	1.097	1.091	1.095
4-Bromofluorobenzene	0.442	0.433	0.445	0.448	0.450
d4-1,2-Dichlorobenzene	0.885	0.885	0.896	0.878	0.876
Dibromofluoromethane	0.350	0.350	0.354	0.344	0.360

FORM VI VOA

QL34:00112

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

LAB FILE ID: RF20: 01281010

RF40: 01281011

RF60: 01281012

COMPOUND	RF20	RF40	RF60
Chloromethane	0.494	0.503	0.540
Vinyl Chloride	0.587	0.594	0.640
Bromomethane	0.415	0.426	0.470
Chloroethane	0.377	0.352	0.362
Trichlorofluoromethane	0.704	0.700	0.730
Acrolein	0.025	0.028	0.034
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.534	0.533	0.563
Acetone	0.048	0.049	0.053
1,1-Dichloroethene	0.535	0.536	0.566
Bromoethane	0.380	0.392	0.430
Iodomethane	0.787	0.794	0.831
Methylene Chloride	0.538	0.541	0.594
Acrylonitrile	0.076	0.076	0.086
Carbon Disulfide	1.796	1.775	1.880
Trans-1,2-Dichloroethene	0.594	0.590	0.651
Vinyl Acetate	0.521	0.533	0.583
1,1-Dichloroethane	0.866	0.858	0.937
2-Butanone	0.031	0.032	0.034
2,2-Dichloropropane	0.760	0.758	0.816
Cis-1,2-Dichloroethene	0.588	0.590	0.632
Chloroform	0.849	0.852	0.931
Bromochloromethane	0.244	0.246	0.262
1,1,1-Trichloroethane	0.774	0.780	0.846
1,1-Dichloropropene	0.477	0.477	0.522
Carbon Tetrachloride	0.436	0.432	0.471
1,2-Dichloroethane	0.312	0.317	0.344
Benzene	1.469	1.437	1.544
Trichloroethene	0.416	0.415	0.446
1,2-Dichloropropane	0.320	0.318	0.340
Bromodichloromethane	0.382	0.381	0.423
Dibromomethane	0.144	0.142	0.156
2-Chloroethyl Vinyl Ether	0.119	0.117	0.130
4-Methyl-2-Pentanone	0.058	0.057	0.063
Cis 1,3-dichloropropene	0.520	0.515	0.556
Toluene	0.972	0.957	1.029
Trans 1,3-Dichloropropene	0.405	0.398	0.436
2-Hexanone	0.095	0.098	0.103

FORM VI VOA

QL34: 00113

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

LAB FILE ID: RF20: 01281010

RF40: 01281011

RF60: 01281012

COMPOUND	RF20	RF40	RF60
1,1,2-Trichloroethane	0.222	0.222	0.242
1,3-Dichloropropane	0.445	0.453	0.480
Tetrachloroethene	0.472	0.486	0.510
Chlorodibromomethane	0.293	0.312	0.333
1,2-Dibromoethane	0.213	0.215	0.235
Chlorobenzene	1.172	1.174	1.216
Ethyl Benzene	2.137	2.184	2.096
1,1,1,2-Tetrachloroethane	0.381	0.390	0.416
m,p-xylene	0.807	0.812	0.820
o-Xylene	0.791	0.795	0.843
Styrene	1.277	1.296	1.340
Bromoform	0.286	0.283	0.305
1,1,2,2-Tetrachloroethane	0.461	0.448	0.480
1,2,3-Trichloropropane	0.134	0.127	0.136
Trans-1,4-Dichloro 2-Butene	0.109	0.114	0.135
N-Propyl Benzene	4.241	3.961	3.909
Bromobenzene	0.882	0.850	0.899
Isopropyl Benzene	3.869	3.572	3.567
2-Chloro Toluene	2.586	2.449	2.540
4-Chloro Toluene	2.589	2.491	2.609
T-Butyl Benzene	2.723	2.614	2.693
1,3,5-Trimethyl Benzene	3.152	2.988	3.074
1,2,4-Trimethylbenzene	3.153	3.041	3.106
S-Butyl Benzene	3.830	3.633	3.645
4-Isopropyl Toluene	3.228	3.137	3.162
1,3-Dichlorobenzene	1.718	1.705	1.797
1,4-Dichlorobenzene	1.730	1.715	1.807
N-Butyl Benzene	2.740	2.680	2.702
1,2-Dichlorobenzene	1.543	1.524	1.610
1,2-Dibromo 3-Chloropropane	0.076	0.078	0.083
1,2,4-Trichlorobenzene	1.052	1.039	1.064
Hexachloro 1,3-Butadiene	0.386	0.398	0.390
Naphthalene	1.940	1.877	1.912
1,2,3-Trichlorobenzene	0.843	0.822	0.831
Methyl tert butyl ether	1.042	1.065	1.122
Dichlorodifluoromethane	0.358	0.360	0.384
Hexane	0.619	0.623	0.659

FORM VI VOA

QL34 : 00114

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

LAB FILE ID: RF20: 01281010 RF40: 01281011 RF60: 01281012

COMPOUND	RF20	RF40	RF60
d4-1,2-Dichloroethane	0.311	0.317	0.314
d8-Toluene	1.084	1.078	1.111
4-Bromofluorobenzene	0.446	0.463	0.472
d4-1,2-Dichlorobenzene	0.883	0.869	0.893
Dibromofluoromethane	0.349	0.361	0.357

FORM VI VOA

QL34:00115

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
Chloromethane	AVRG	0.494	5.5
Vinyl Chloride	AVRG	0.593	5.0
Bromomethane	AVRG	0.395	10.4
Chloroethane	AVRG	0.389	7.8
Trichlorofluoromethane	AVRG	0.698	5.5
Acrolein	AVRG	0.026	15.4
112Trichloro122Trifluoroetha	AVRG	0.532	2.8
Acetone	AVRG	0.050	5.1
1,1-Dichloroethene	AVRG	0.554	5.0
Bromoethane	AVRG	0.401	5.5
Iodomethane	AVRG	0.806	2.4
Methylene Chloride	AVRG	0.549	4.1
Acrylonitrile	AVRG	0.080	6.4
Carbon Disulfide	AVRG	1.788	2.8
Trans-1,2-Dichloroethene	AVRG	0.604	4.0
Vinyl Acetate	AVRG	0.527	5.7
1,1-Dichloroethane	AVRG	0.885	3.1
2-Butanone	AVRG	0.032	5.8
2,2-Dichloropropane	AVRG	0.777	2.9
Cis-1,2-Dichloroethene	AVRG	0.602	3.7
Chloroform	AVRG	0.865	4.6
Bromochloromethane	AVRG	0.245	3.0
1,1,1-Trichloroethane	AVRG	0.782	3.6
1,1-Dichloropropene	AVRG	0.493	4.3
Carbon Tetrachloride	AVRG	0.419	7.5
1,2-Dichloroethane	AVRG	0.320	5.1
Benzene	AVRG	1.488	2.8
Trichloroethene	AVRG	0.415	5.4
1,2-Dichloropropane	AVRG	0.326	2.6
Bromodichloromethane	AVRG	0.380	5.6
Dibromomethane	AVRG	0.144	6.0
2-Chloroethyl Vinyl Ether	AVRG	0.117	5.4
4-Methyl-2-Pentanone	AVRG	0.058	4.6
Cis 1,3-dichloropropene	AVRG	0.520	3.2
Toluene	AVRG	0.993	4.2
Trans 1,3-Dichloropropene	AVRG	0.420	14.8
2-Hexanone	AVRG	0.096	5.7

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM VI VOA

QL34:00116

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
1,1,2-Trichloroethane	AVRG	0.222	3.9
1,3-Dichloropropane	AVRG	0.453	3.8
Tetrachloroethene	AVRG	0.492	3.0
Chlorodibromomethane	AVRG	0.302	6.2
1,2-Dibromoethane	AVRG	0.216	5.3
Chlorobenzene	AVRG	1.183	2.7
Ethyl Benzene	AVRG	2.191	4.6
1,1,1,2-Tetrachloroethane	AVRG	0.393	4.8
m,p-xylene	AVRG	0.831	3.6
o-Xylene	AVRG	0.804	2.6
Styrene	AVRG	1.312	7.6
Bromoform	AVRG	0.285	4.5
1,1,2,2-Tetrachloroethane	AVRG	0.478	11.8
1,2,3-Trichloropropane	AVRG	0.135	6.5
Trans-1,4-Dichloro 2-Butene	AVRG	0.126	9.0
N-Propyl Benzene	AVRG	4.300	6.9
Bromobenzene	AVRG	0.917	6.5
Isopropyl Benzene	AVRG	3.829	4.8
2-Chloro Toluene	AVRG	2.612	6.2
4-Chloro Toluene	AVRG	2.653	6.6
T-Butyl Benzene	AVRG	2.743	4.3
1,3,5-Trimethyl Benzene	AVRG	3.178	5.3
1,2,4-Trimethylbenzene	AVRG	3.206	5.3
S-Butyl Benzene	AVRG	3.911	6.6
4-Isopropyl Toluene	AVRG	3.298	6.2
1,3-Dichlorobenzene	AVRG	1.836	13.6
1,4-Dichlorobenzene	AVRG	1.870	13.2
N-Butyl Benzene	AVRG	2.847	9.7
1,2-Dichlorobenzene	AVRG	1.611	8.9
1,2-Dibromo 3-Chloropropane	AVRG	0.083	11.6
1,2,4-Trichlorobenzene	AVRG	1.086	8.1
Hexachloro 1,3-Butadiene	AVRG	0.402	11.1
Naphthalene	AVRG	1.920	3.4
1,2,3-Trichlorobenzene	AVRG	0.867	7.6
Methyl tert butyl ether	AVRG	1.064	2.8
Dichlorodifluoromethane	AVRG	0.349	8.0
Hexane	AVRG	0.686	12.1

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM VI VOA

QL34:00117

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Calibration Date: 01/28/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
d4-1,2-Dichloroethane	AVRG	0.315	1.8
d8-Toluene	AVRG	1.088	1.3
4-Bromofluorobenzene	AVRG	0.450	2.7
d4-1,2-Dichlorobenzene	AVRG	0.883	1.0
Dibromofluoromethane	AVRG	0.353	1.7

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM VI VOA

QL34:00118

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JAN-2010 15:06
 End Cal Date : 28-JAN-2010 18:05
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/nt5.i/28JAN10.b/01281005.d
 Level 2: /chem1/nt5.i/28JAN10.b/01281006.d
 Level 3: /chem1/nt5.i/28JAN10.b/01281007.d
 Level 4: /chem1/nt5.i/28JAN10.b/01281008.d
 Level 5: /chem1/nt5.i/28JAN10.b/01281009.d
 Level 6: /chem1/nt5.i/28JAN10.b/01281010.d
 Level 7: /chem1/nt5.i/28JAN10.b/01281011.d
 Level 8: /chem1/nt5.i/28JAN10.b/01281012.d

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
1 Dichlorodifluoromethane	0.33890 0.35970	0.31934 0.38391	0.29932	0.37132	0.35794	0.35852	0.34862	8.004
172 Hexane	0.87147 0.62301	0.70588 0.65881	0.70573	0.67447	0.62760	0.61892	0.68573	12.067
2 Chloromethane	0.49562 0.50280	0.45390 0.54039	0.45901	0.50333	0.50095	0.49352	0.49369	5.520
3 Vinyl Chloride	0.57419 0.59362	0.57321 0.64015	0.54751	0.62423	0.60203	0.58681	0.59272	4.994
4 Bromomethane	0.36415 0.42559	0.37641 0.46951	0.33855	0.37391	0.39831	0.41470	0.39514	10.397
5 Chloroethane	0.44898 0.35217	0.40507 0.36249	0.38146	0.40496	0.38218	0.37677	0.38926	7.781

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JAN-2010 15:06
 End Cal Date : 28-JAN-2010 18:05
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
6 Trichlorofluoromethane	0.60738 0.70019	0.70701 0.73005	0.70175	0.72125	0.71625	0.70395	0.69848	5.478
7 1,1-Dichloroethene	0.61593 0.53645	0.54236 0.56660	0.52987	0.55670	0.54669	0.53546	0.55376	5.027
8 Carbon Disulfide	1.75076 1.77487	1.71865 1.88048	1.75942	1.82932	1.79899	1.79598	1.78856	2.806
9 112Trichloro122Trifluoroethane	0.53214 0.53333	0.52236 0.56264	0.50975	0.53213	0.52724	0.53399	0.53170	2.803
10 Iodomethane	+++++ 0.79416	0.80749 0.83115	0.79077	0.83424	0.79923	0.78741	0.80635	2.372
11 Bromoethane	0.43970 0.39152	0.39948 0.42964	0.37960	0.39473	0.39569	0.37960	0.40125	5.487
12 Acrolein	+++++ 0.02832	+++++ 0.03393	0.02360	0.02460	0.02332	0.02484	0.02643	15.457
13 Methylene Chloride	+++++ 0.54148	0.52505 0.59447	0.55693	0.55131	0.53620	0.53837	0.54912	4.101
14 Acetone	+++++ 0.04861	0.05226 0.05262	0.05372	0.04756	0.04818	0.04844	0.05020	5.090

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JAN-2010 15:06
 End Cal Date : 28-JAN-2010 18:05
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
15 Trans-1,2-Dichloroethene	0.61291	0.57392	0.62386	0.59432	0.59270	0.59410		
	0.58951	0.65144					0.60410	4.035
16 Methyl tert butyl ether	1.03831	1.05539	1.03542	1.08963	1.06345	1.04220		
	1.06482	1.12226					1.06393	2.770
17 1,1-Dichloroethane	0.91602	0.87910	0.86492	0.87703	0.87844	0.86601		
	0.85821	0.93740					0.88464	3.119
18 Acrylonitrile	+++++	+++++	0.08515	0.08319	0.07612	0.07570		
	0.07560	0.08656					0.08039	6.386
19 Vinyl Acetate	+++++	+++++	0.49369	0.51614	0.51703	0.52116		
	0.53309	0.58334					0.52741	5.733
20 Cis-1,2-Dichloroethene	0.64202	0.59506	0.60249	0.59115	0.57977	0.58814		
	0.59006	0.63167					0.60254	3.697
21 2,2-Dichloropropane	0.81095	0.76404	0.76967	0.77019	0.77011	0.75958		
	0.75842	0.81595					0.77736	2.930
22 Bromochloromethane	0.23967	0.24025	0.24236	0.24002	0.24612	0.24377		
	0.24580	0.26237					0.24505	3.038
23 Chloroform	0.92447	0.83863	0.83633	0.85467	0.83117	0.84944		
	0.85187	0.93094					0.86469	4.598

Analytical Resources, Inc.

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 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
24 Carbon Tetrachloride	0.37851 0.43180	0.37538 0.47091	0.40848	0.42439	0.42562	0.43559	0.41883	7.474
26 1,1,1-Trichloroethane	0.75512 0.77951	0.77652 0.84624	0.76943	0.76159	0.78977	0.77458	0.78160	3.610
28 1,1-Dichloropropene	0.52869 0.47701	0.49255 0.52156	0.49479	0.48529	0.47060	0.47721	0.49346	4.304
29 2-Butanone	++++ 0.03179	0.03011 0.03374	0.03500	0.03009	0.03138	0.03094	0.03186	5.827
30 Benzene	1.54667 1.43721	1.51317 1.54414	1.46519	1.47948	1.45155	1.46931	1.48834	2.791
33 1,2-Dichloroethane	0.33422 0.31667	0.33044 0.34415	0.29021	0.31621	0.31855	0.31197	0.32030	5.107
27 Allyl Chloride	++++ ++++	++++ ++++	++++	++++	++++	++++	++++	++++
34 Trichloroethene	0.45163 0.41530	0.40525 0.44622	0.38751	0.40391	0.39832	0.41552	0.41546	5.434
37 Dibromomethane	0.15838 0.14204	0.13518 0.15603	0.13794	0.14315	0.13662	0.14363	0.14412	6.010

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
38 1,2-Dichloropropane	0.32843	0.33130	0.32349	0.33141	0.31347	0.32027		
	0.31816	0.33964					0.32577	2.611
40 2-Chloroethyl Vinyl Ether	+++++	+++++	0.11260	0.11296	0.11385	0.11878		
	0.11694	0.12957					0.11745	5.460
39 Bromodichloromethane	0.38920	0.37921	0.34787	0.37417	0.36711	0.38191		
	0.38103	0.42342					0.38049	5.625
36 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
41 Cis 1,3-dichloropropene	0.50509	0.52446	0.51567	0.52284	0.50309	0.52020		
	0.51536	0.55624					0.52037	3.157
43 Toluene	1.08296	0.98139	0.97864	0.98054	0.96505	0.97241		
	0.95699	1.02864					0.99333	4.230
44 Tetrachloroethene	0.49985	0.50579	0.47583	0.50582	0.48290	0.47203		
	0.48640	0.51038					0.49237	3.026
45 4-Methyl-2-Pentanone	+++++	0.05549	0.05712	0.06168	0.05714	0.05751		
	0.05719	0.06263					0.05840	4.563
46 Trans 1,3-Dichloropropene	0.56814	0.39557	0.37222	0.38746	0.39850	0.40547		
	0.39844	0.43626					0.42026	14.856

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Integrator : HP RTE
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 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
47 1,1,2-Trichloroethane	0.22261	0.21865	0.21708	0.21495	0.21685	0.22250		
	0.22211	0.24223					0.22212	3.885
48 Chlorodibromomethane	0.32052	0.27871	0.28450	0.29563	0.29587	0.29332		
	0.31177	0.33330					0.30170	6.163
49 1,3-Dichloropropane	0.48001	0.43708	0.44805	0.44160	0.44178	0.44521		
	0.45321	0.48040					0.45342	3.796
50 1,2-Dibromoethane	0.23275	0.20366	0.21411	0.21297	0.20541	0.21346		
	0.21470	0.23510					0.21652	5.319
51 2-Hexanone	+++++	0.10038	0.08671	0.09444	0.09230	0.09474		
	0.09845	0.10295					0.09571	5.673
53 Chlorobenzene	1.20951	1.12193	1.17973	1.21837	1.17278	1.17188		
	1.17431	1.21612					1.18308	2.691
54 Ethyl Benzene	2.42499	2.15651	2.18679	2.19275	2.15091	2.13689		
	2.18359	2.09588					2.19104	4.551
55 1,1,1,2-Tetrachloroethane	0.42430	0.36895	0.38852	0.40039	0.37848	0.38126		
	0.39009	0.41597					0.39349	4.817
56 m,p-xylene	0.89742	0.81974	0.83809	0.84549	0.80830	0.80686		
	0.81197	0.82024					0.83101	3.631

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JAN-2010 15:06
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
57 o-Xylene	0.81932	0.77850	0.78697	0.81734	0.79800	0.79144		
	0.79527	0.84289					0.80372	2.633
59 Bromoform	0.27644	0.26855	0.30079	0.28903	0.27275	0.28577		
	0.28286	0.30511					0.28516	4.531
58 Styrene	1.54543	1.26233	1.22832	1.26578	1.27669	1.27732		
	1.29658	1.33976					1.31153	7.600
60 Isopropyl Benzene	3.97215	4.04384	3.88653	3.98512	3.73801	3.86897		
	3.57208	3.56696					3.82921	4.824
62 Bromobenzene	1.04734	0.92144	0.92855	0.92958	0.88079	0.88169		
	0.84974	0.89943					0.91732	6.474
63 N-Propyl Benzene	4.80567	4.49848	4.43682	4.41067	4.13524	4.24113		
	3.96130	3.90895					4.29978	6.946
64 1,1,2,2-Tetrachloroethane	0.61049	0.48821	0.44611	0.44629	0.44284	0.46079		
	0.44840	0.47985					0.47787	11.756
65 2-Chloro Toluene	2.98178	2.60388	2.65523	2.57774	2.50683	2.58554		
	2.44950	2.54017					2.61258	6.192
66 1,2,3-Trichloropropane	+++++	0.15206	0.13138	0.13859	0.12591	0.13356		
	0.12717	0.13614					0.13497	6.516

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
67 1,3,5-Trimethyl Benzene	3.52417 2.98798	3.20852 3.07455	3.18857	3.26717	3.01735	3.15204	3.17754	5.348
68 Trans-1,4-Dichloro 2-Butene	++++ 0.11450	0.12822 0.13517	0.12750	0.14209	0.12460	0.10913	0.12589	8.991
69 4-Chloro Toluene	3.05650 2.49087	2.71223 2.60895	2.59057	2.62996	2.54243	2.58932	2.65260	6.611
70 T-Butyl Benzene	2.95144 2.61357	2.78516 2.69261	2.73776	2.84396	2.59537	2.72326	2.74289	4.290
71 1,2,4-Trimethylbenzene	3.59082 3.04113	3.25485 3.10554	3.17772	3.23892	3.09010	3.15277	3.20648	5.349
72 S-Butyl Benzene	4.28797 3.63295	4.18289 3.64493	4.01002	4.03689	3.65989	3.82972	3.91066	6.551
73 4-Isopropyl Toluene	3.74574 3.13694	3.29112 3.16195	3.36597	3.35252	3.09950	3.22801	3.29772	6.245
74 1,3-Dichlorobenzene	2.44374 1.70523	1.80598 1.79720	1.79213	1.76071	1.66902	1.71782	1.83648	13.625
76 1,4-Dichlorobenzene	2.43906 1.71532	1.96380 1.80716	1.79721	1.83180	1.67339	1.72981	1.86969	13.188

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JAN-2010 15:06
 End Cal Date : 28-JAN-2010 18:05
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
77 N-Butyl Benzene	3.47785 2.68012	2.90364 2.70178	2.87655	2.82291	2.57133	2.74006	2.84678	9.747
79 1,2-Dichlorobenzene	1.93718 1.52386	1.66584 1.61033	1.55553	1.57234	1.48258	1.54297	1.61133	8.860
81 1,2-Dibromo 3-Chloropropane	++++ 0.07766	0.09906 0.08279	0.08950	0.08365	0.06966	0.07620	0.08265	11.611
80 Cyclohexanone	++++ ++++	++++ ++++	++++	++++	++++	++++	++++	++++
82 Hexachloro 1,3-Butadiene	++++ 0.39854	0.44240 0.39043	0.43460	0.44212	0.31736	0.38640	0.40169	11.067
83 1,2,4-Trichlorobenzene	++++ 1.03891	1.27330 1.06383	1.08117	1.09225	0.99919	1.05212	1.08582	8.111
84 Naphthalene	++++ 1.87694	2.02102 1.91250	1.87737	1.98332	1.83273	1.93983	1.92053	3.424
85 1,2,3-Trichlorobenzene	++++ 0.82217	0.96130 0.83095	0.93818	0.89387	0.78120	0.84337	0.86729	7.577
25 Dibromofluoromethane	0.34962 0.36132	0.35051 0.35743	0.35412	0.34411	0.35985	0.34944	0.35330	1.677

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JAN-2010 15:06
 End Cal Date : 28-JAN-2010 18:05
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Cal Date : 29-Jan-2010 10:01 paul
 Curve Type : Average

Compound	0.20000	0.50000	1.000	2.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
\$ 31 d4-1,2-Dichloroethane	0.30732	0.31514	0.32359	0.31220	0.32378	0.31095		
	0.31671	0.31412					0.31548	1.841
\$ 42 d8-Toluene	1.06378	1.08231	1.09675	1.09110	1.09533	1.08451		
	1.07753	1.11081					1.08777	1.300
\$ 61 4-Bromofluorobenzene	0.44173	0.43314	0.44479	0.44849	0.45041	0.44625		
	0.46321	0.47190					0.44999	2.723
\$ 78 d4-1,2-Dichlorobenzene	0.88473	0.88538	0.89550	0.87794	0.87568	0.88271		
	0.86902	0.89276					0.88297	0.990

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/28JAN10.b/01281005.d
 Lab Smp Id: 0.2 0127 Client Smp ID: 0.2 ppb
 Inj Date : 28-JAN-2010 15:06
 Operator : PC Inst ID: nt5.i
 Smp Info : 0.2 0127,10,10,0,
 Misc Info : 10-
 Comment :
 Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Meth Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
 Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa+hex.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	3248	0.20000	0.1944 (M)
172 Hexane	41	2.777	2.771	(0.586)	8352	0.20000	0.2542 (M)
2 Chloromethane	50	1.170	1.164	(0.247)	4750	0.20000	0.2008
3 Vinyl Chloride	62	1.232	1.226	(0.260)	5503	0.20000	0.1937 (M)
4 Bromomethane	94	1.453	1.453	(0.307)	3490	0.20000	0.1843 (M)
5 Chloroethane	64	1.543	1.543	(0.326)	4303	0.20000	0.2307 (M)
6 Trichlorofluoromethane	101	1.657	1.651	(0.350)	5821	0.20000	0.1739 (Q)
12 Acrolein	56	2.330	2.318	(0.492)	1349	1.00000	1.065 (M)
9 112Trichloro122Trifluoroethane	101	2.086	2.092	(0.440)	5100	0.20000	0.2002 (M)
14 Acetone	43	2.601	2.590	(0.549)	3628	1.00000	1.508
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	5903	0.20000	0.2225 (Q)
11 Bromoethane	108	2.250	2.250	(0.475)	4214	0.20000	0.2192 (M)
10 Iodomethane	142	2.149	2.148	(0.453)	7479	0.20000	0.1936 (M)
13 Methylene Chloride	84	2.528	2.527	(0.533)	6375	0.20000	0.2423 (QM)
18 Acrylonitrile	53	3.348	3.348	(0.706)	429	0.20000	0.1114 (Q)
16 Methyl tert butyl ether	73	2.822	2.805	(0.595)	9951	0.20000	0.1952 (QM)

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	
8 Carbon Disulfide	76	2.052	2.052	(0.433)	16779	0.20000	0.1958
15 Trans-1,2-Dichloroethene	96	2.680	2.680	(0.566)	5874	0.20000	0.2029
19 Vinyl Acetate	43	3.597	3.597	(0.759)	5596	0.20000	0.2214 (M)
17 1,1-Dichloroethane	63	3.297	3.291	(0.696)	8779	0.20000	0.2071
29 2-Butanone	72	4.417	4.405	(0.932)	2394	1.00000	1.568 (QM)
21 2,2-Dichloropropane	77	3.919	3.925	(0.827)	7772	0.20000	0.2086
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.808)	6153	0.20000	0.2131
32 Pentafluorobenzene	168	4.740	4.739	(1.000)	479193	10.0000	
23 Chloroform	83	4.106	4.106	(0.866)	8860	0.20000	0.2138
22 Bromochloromethane	128	3.998	4.004	(0.844)	2297	0.20000	0.1956 (M)
25 Dibromofluoromethane	111	4.264	4.270	(0.900)	167534	10.0000	9.896
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	7237	0.20000	0.1932
28 1,1-Dichloropropene	75	4.389	4.388	(0.846)	7664	0.20000	0.2143
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	5487	0.20000	0.1807 (M)
31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.999)	147267	10.0000	9.742
33 1,2-Dichloroethane	62	4.796	4.790	(0.925)	4845	0.20000	0.2087
30 Benzene	78	4.609	4.609	(0.889)	22421	0.20000	0.2078
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	724817	10.0000	
34 Trichloroethene	130	5.130	5.135	(0.989)	6547	0.20000	0.2174
38 1,2-Dichloropropane	63	5.588	5.576	(1.077)	4761	0.20000	0.2016
39 Bromodichloromethane	83	5.656	5.650	(1.091)	5642	0.20000	0.2046
37 Dibromomethane	93	5.492	5.486	(1.059)	2296	0.20000	0.2198 (Q)
40 2-Chloroethyl Vinyl Ether	63	6.176	6.170	(1.191)	1920	0.20000	0.2255 (M)
45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	4264	1.00000	1.007
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	7322	0.20000	0.1941
42 d8-Toluene	98	6.346	6.346	(1.224)	771049	10.0000	9.780
43 Toluene	92	6.391	6.391	(1.232)	15699	0.20000	0.2180
46 Trans 1,3-Dichloropropene	75	6.748	6.753	(1.301)	8236	0.20000	0.2704
51 2-Hexanone	43	7.455	7.455	(0.975)	7198	1.00000	1.213
47 1,1,2-Trichloroethane	97	6.878	6.883	(1.326)	3227	0.20000	0.2004 (Q)
49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	5953	0.20000	0.2117
44 Tetrachloroethene	166	6.708	6.708	(0.877)	6199	0.20000	0.2030
48 Chlorodibromomethane	129	7.019	7.019	(0.918)	3975	0.20000	0.2125
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	3374	0.20000	0.2150
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	620086	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.002)	15000	0.20000	0.2045 (Q)
54 Ethyl Benzene	91	7.709	7.709	(1.008)	30074	0.20000	0.2214 (M)
55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	5262	0.20000	0.2157
56 m,p-xylene	106	7.840	7.839	(1.025)	22259	0.40000	0.4320
57 o-Xylene	106	8.202	8.201	(1.072)	10161	0.20000	0.2039
58 Styrene	104	8.252	8.252	(1.079)	19166	0.20000	0.2357
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	24614	0.20000	0.2075
59 Bromoform	173	8.247	8.247	(0.849)	1713	0.20000	0.1939
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	3783	0.20000	0.2555
61 4-Bromofluorobenzene	95	8.711	8.716	(1.139)	273911	10.0000	9.816
66 1,2,3-Trichloropropane	110	9.027	9.021	(0.930)	1261	0.20000	0.3015 (QM)
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	1456	0.20000	0.3733 (QM)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
63 N-Propyl Benzene	91	8.846	8.852	(0.911)	29779	0.20000	0.2235
62 Bromobenzene	156	8.790	8.790	(0.905)	6490	0.20000	0.2283
67 1,3,5-Trimethyl Benzene	105	9.039	9.038	(0.931)	21838	0.20000	0.2218
65 2-Chloro Toluene	91	8.971	8.965	(0.924)	18477	0.20000	0.2283
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	18940	0.20000	0.2305
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	18289	0.20000	0.2152
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	22251	0.20000	0.2240
72 S-Butyl Benzene	105	9.469	9.468	(0.975)	26571	0.20000	0.2193
73 4-Isopropyl Toluene	119	9.616	9.610	(0.990)	23211	0.20000	0.2272
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	15143	0.20000	0.2661
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	309832	10.0000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	15114	0.20000	0.2609(Q)
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	21551	0.20000	0.2443
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	274117	10.0000	10.020(Q)
79 1,2-Dichlorobenzene	146	10.102	10.096	(1.040)	12004	0.20000	0.2404(Q)
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	900	0.20000	0.3515(QM)
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	10496	0.20000	0.3120
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	3340	0.20000	0.2684
84 Naphthalene	128	11.799	11.799	(1.215)	18164	0.20000	0.3053
85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	7427	0.20000	0.2764

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 01281005.d
 Lab Smp Id: 0.2 0127
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Misc Info: 10-

Calibration Date: 28-JAN-2010
 Calibration Time: 16:48
 Client Smp ID: 0.2 ppb
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	479193	1.62
35 1,4-Difluorobenze	723083	361542	1446166	724817	0.24
52 d5-Chlorobenzene	624979	312490	1249958	620086	-0.78
75 d4-1,4-Dichlorobe	328841	164420	657682	309832	-5.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.01
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.01
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/28JAN10.b/01281005.d

Date: 28-JAN-2010 15:06

Client ID: 0.2 ppb

Sample Info: 0.2 0127,10,10,0,

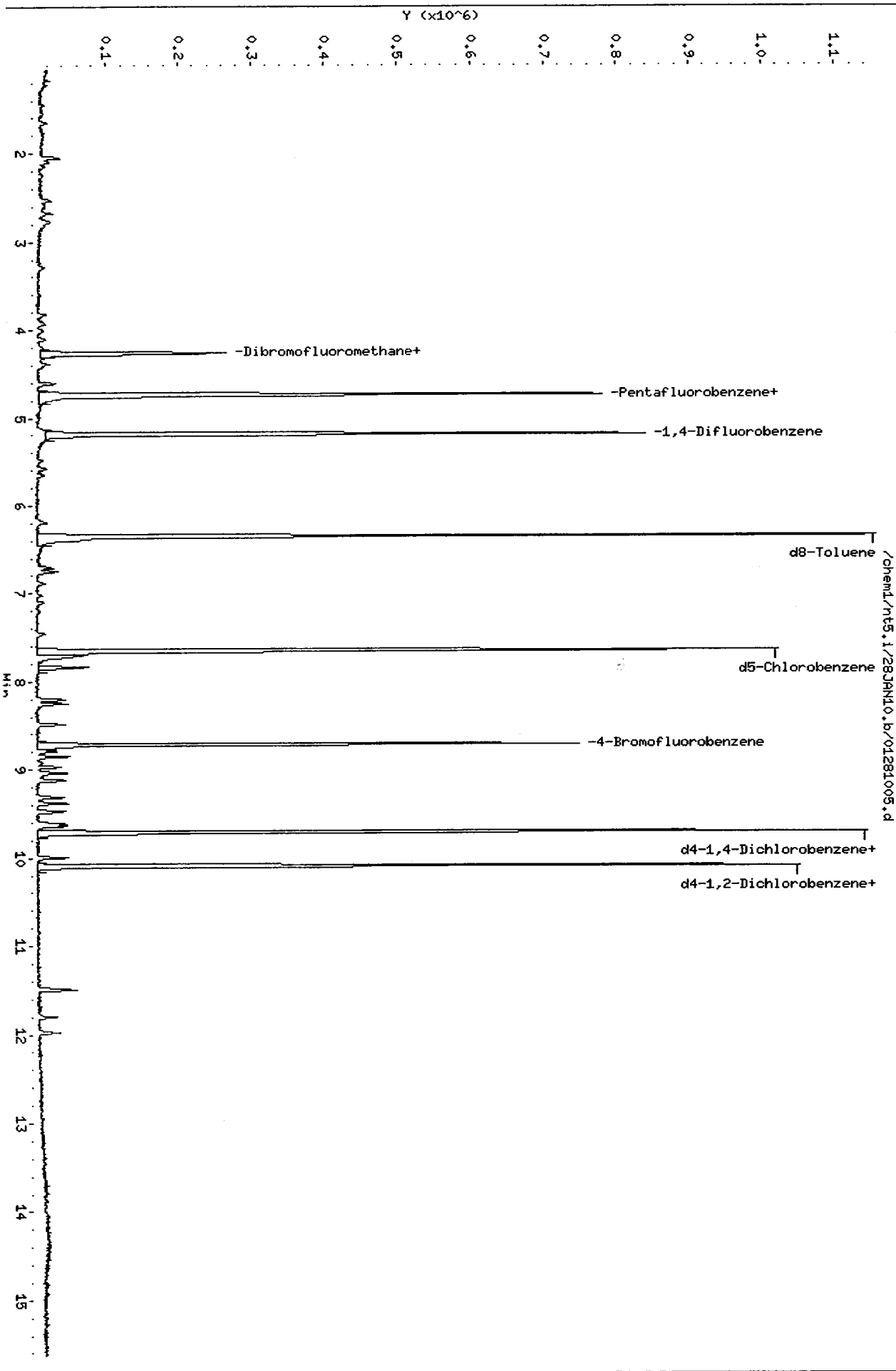
Column phase: RTXVHS

Instrument: nt5.i

Operator: PC

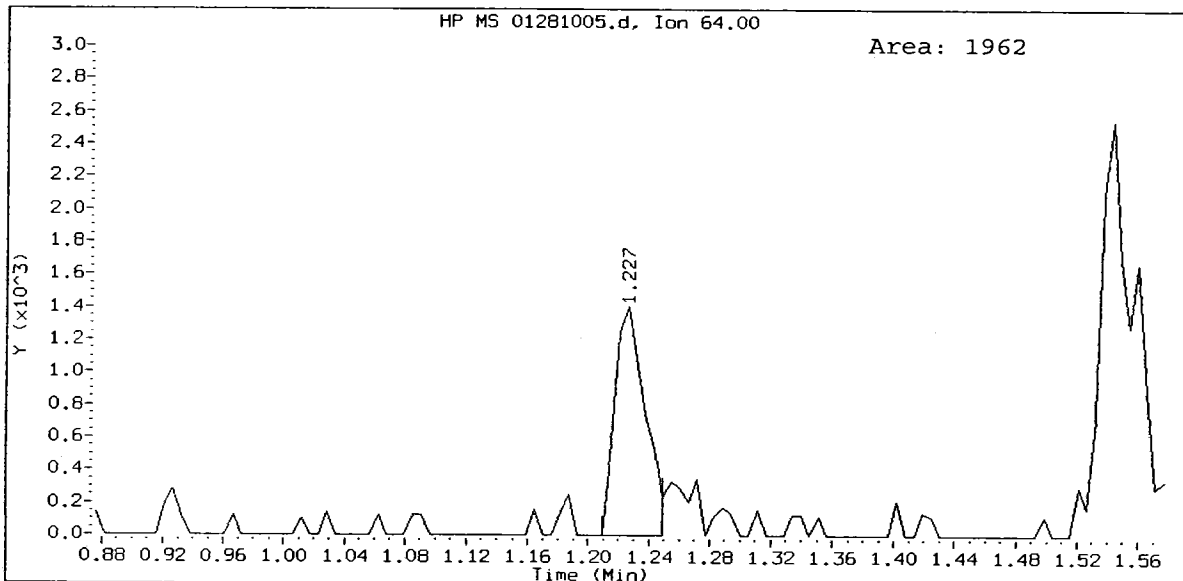
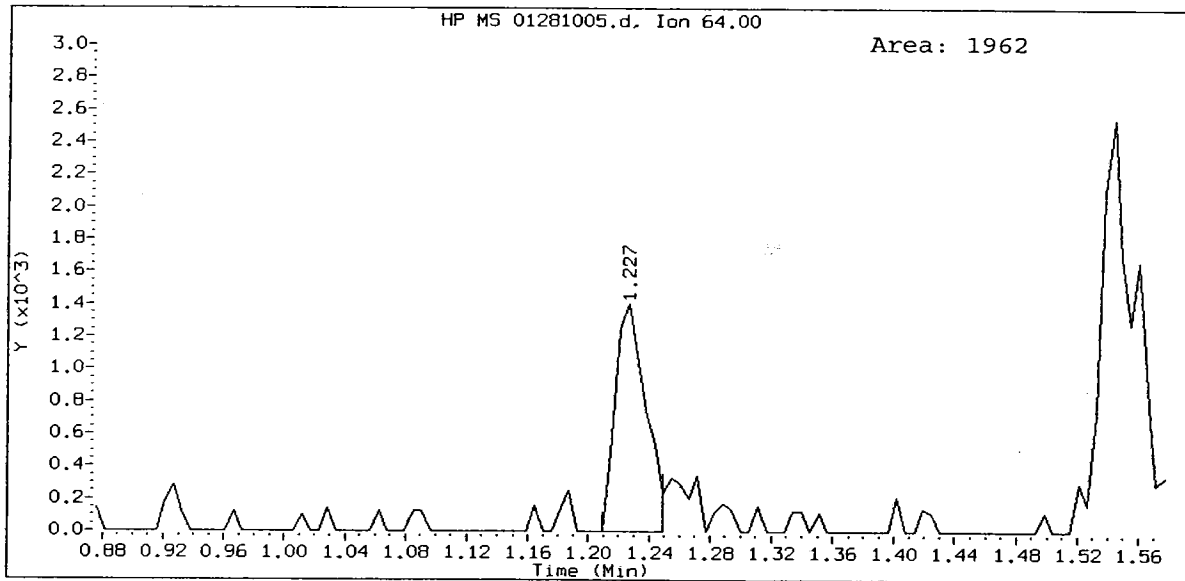
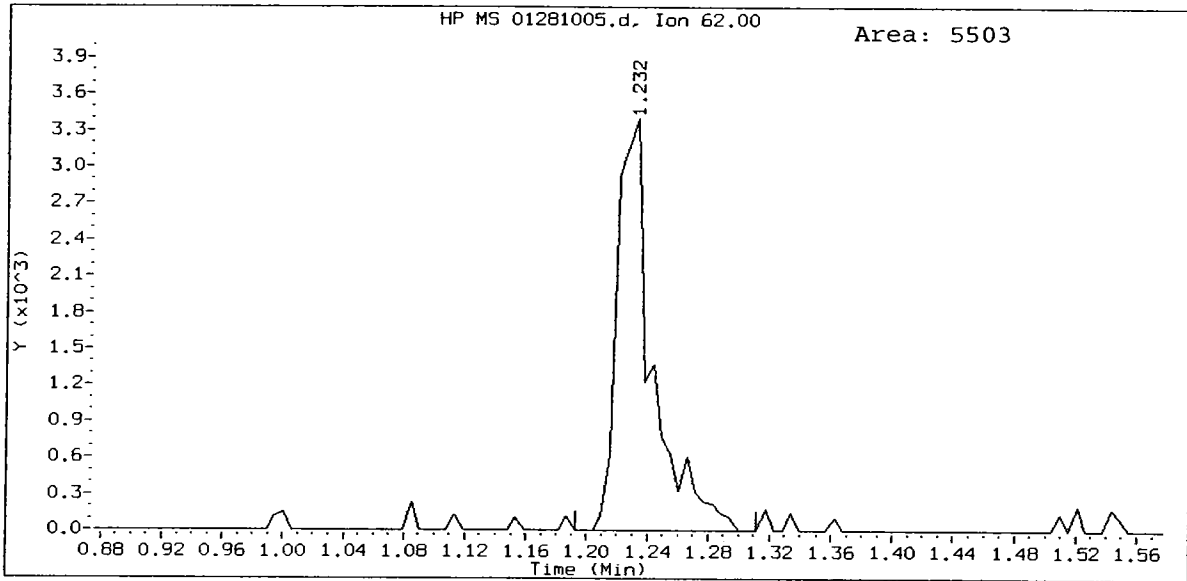
Column diameter: 0.18

Page 5



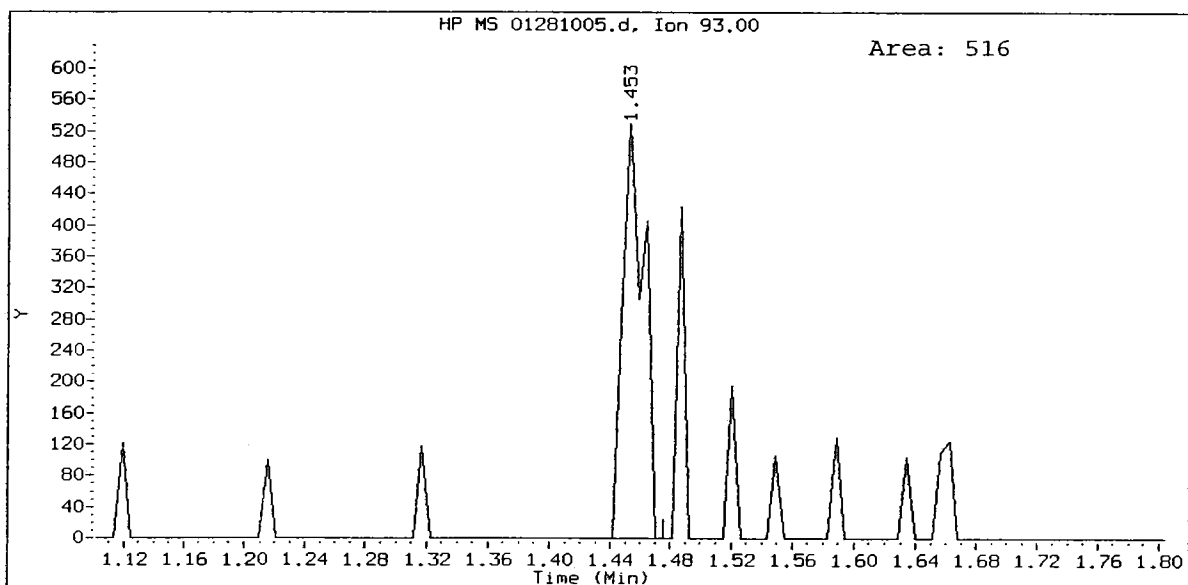
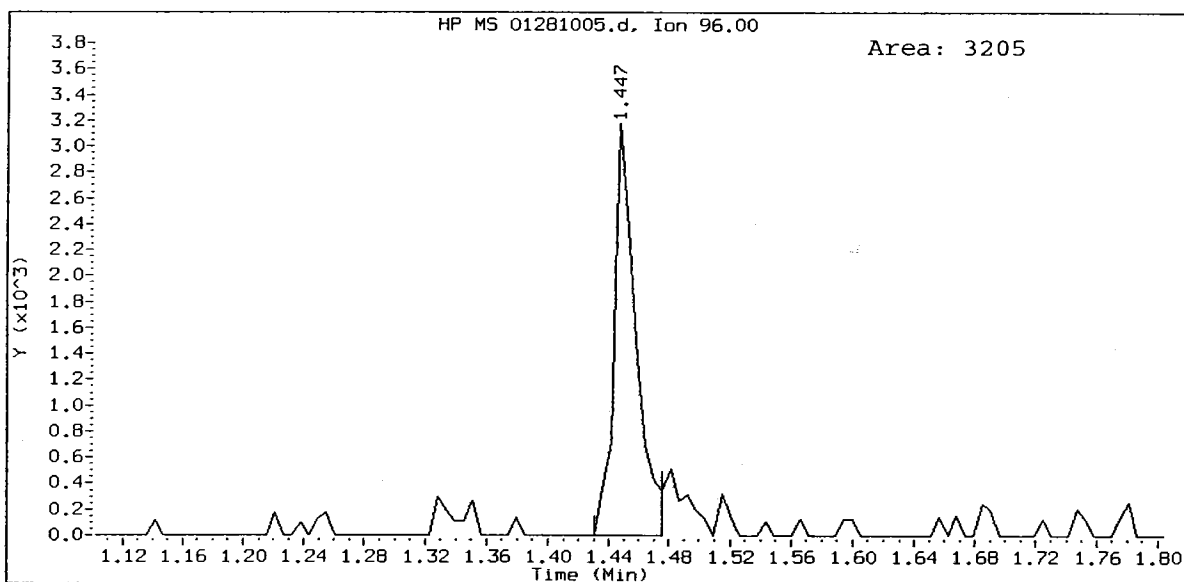
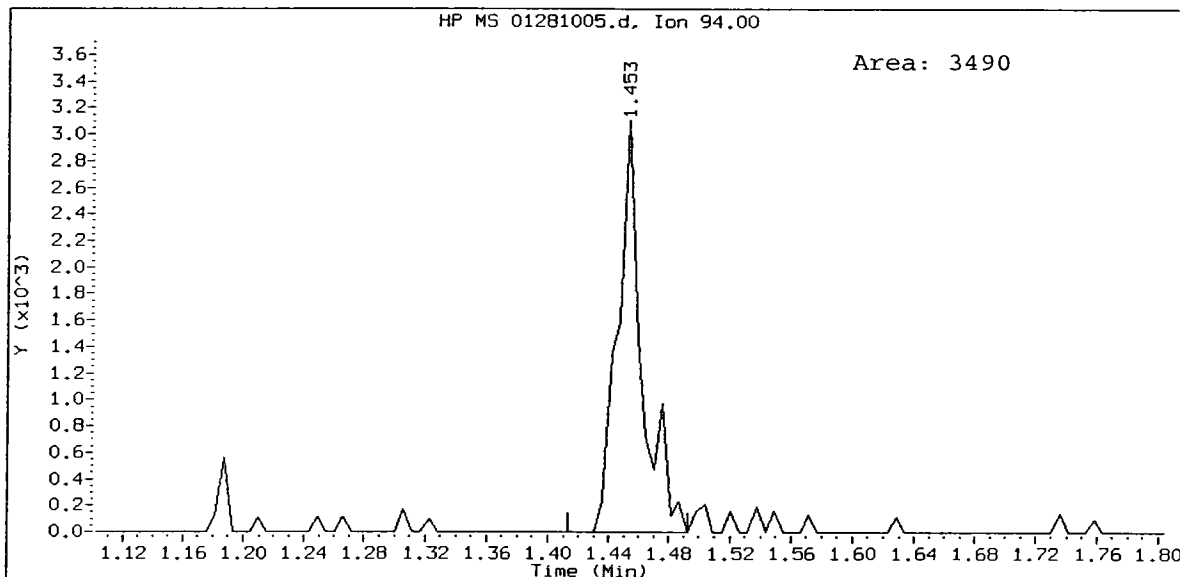
01281005.d

0.2 0127, /chem1/nt5.i/28JAN10.b/01281005.d
Vinyl Chloride Amount: 0.19

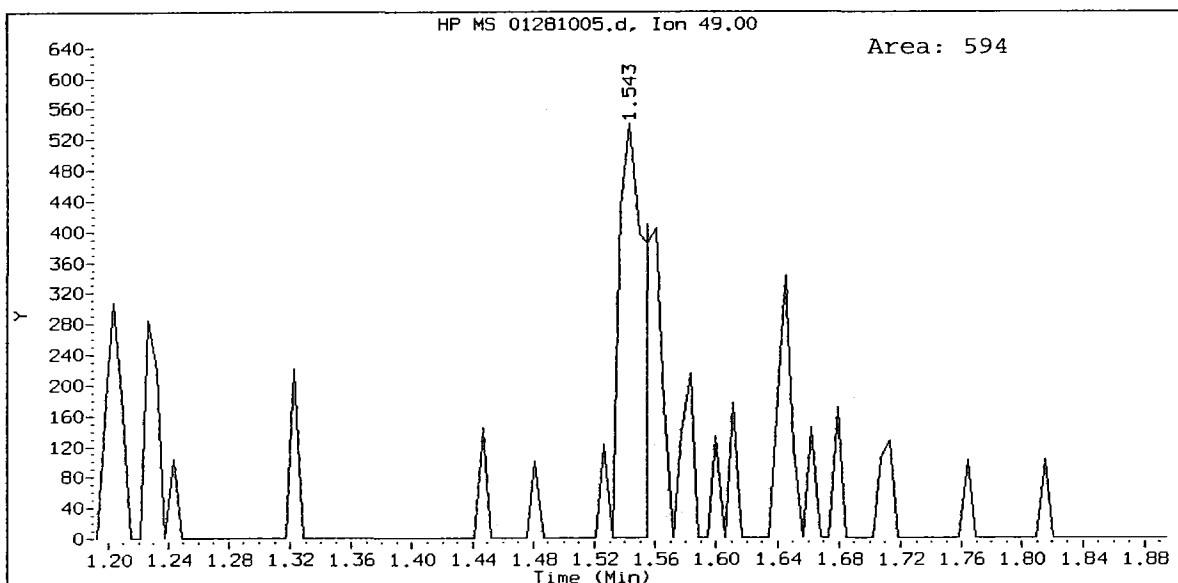
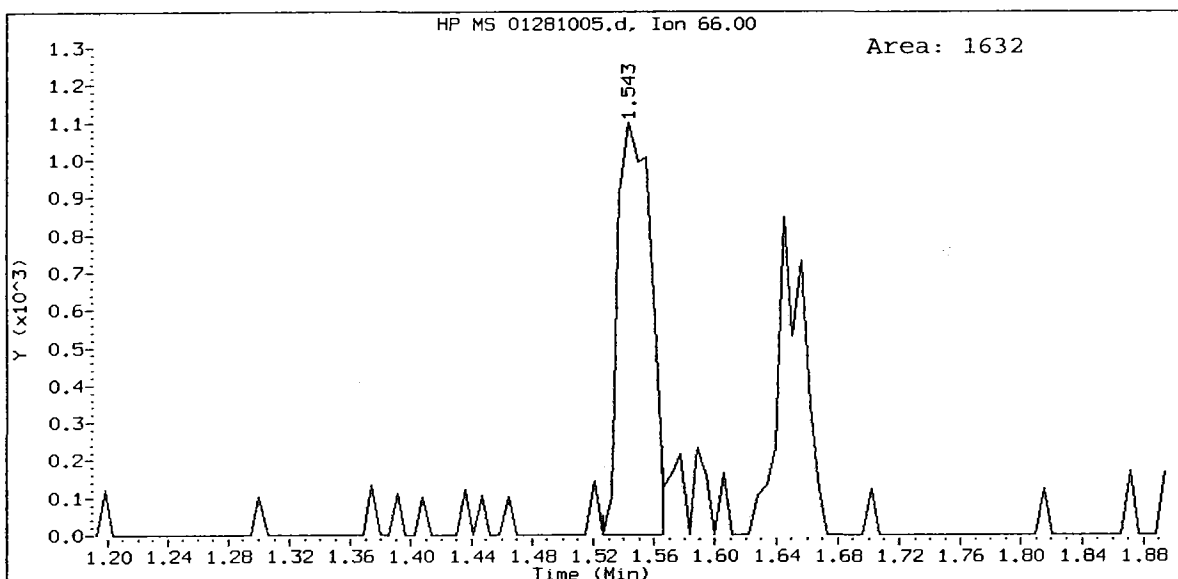
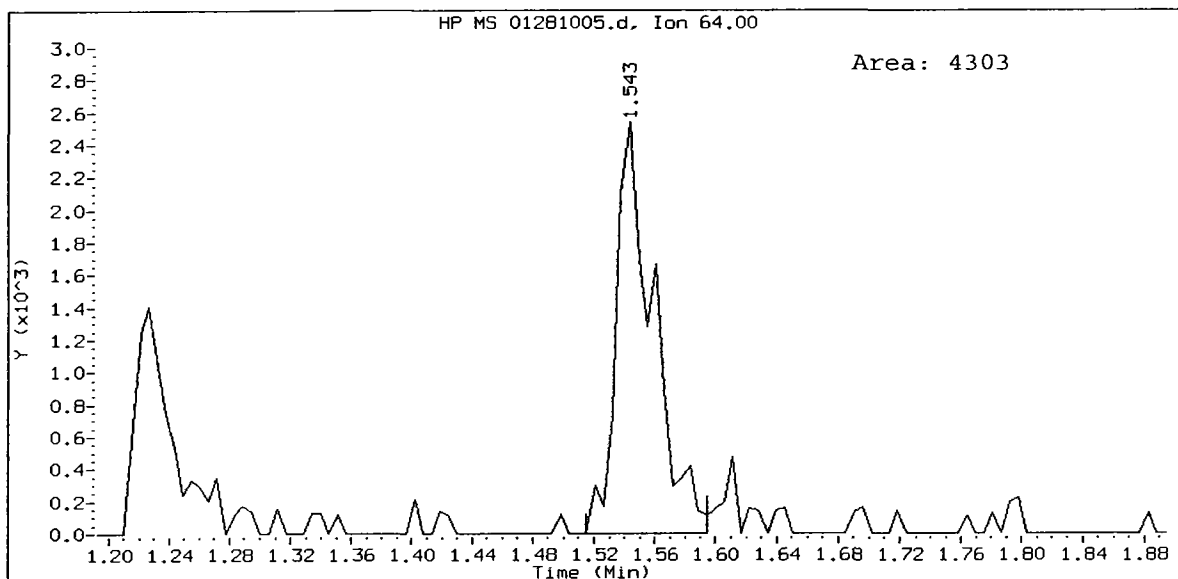


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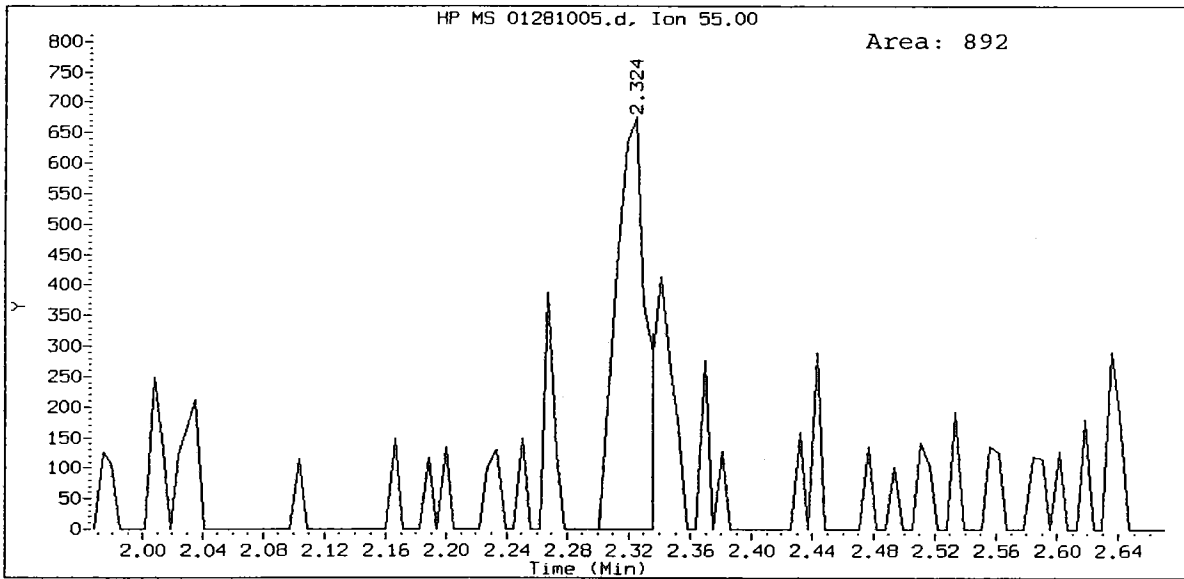
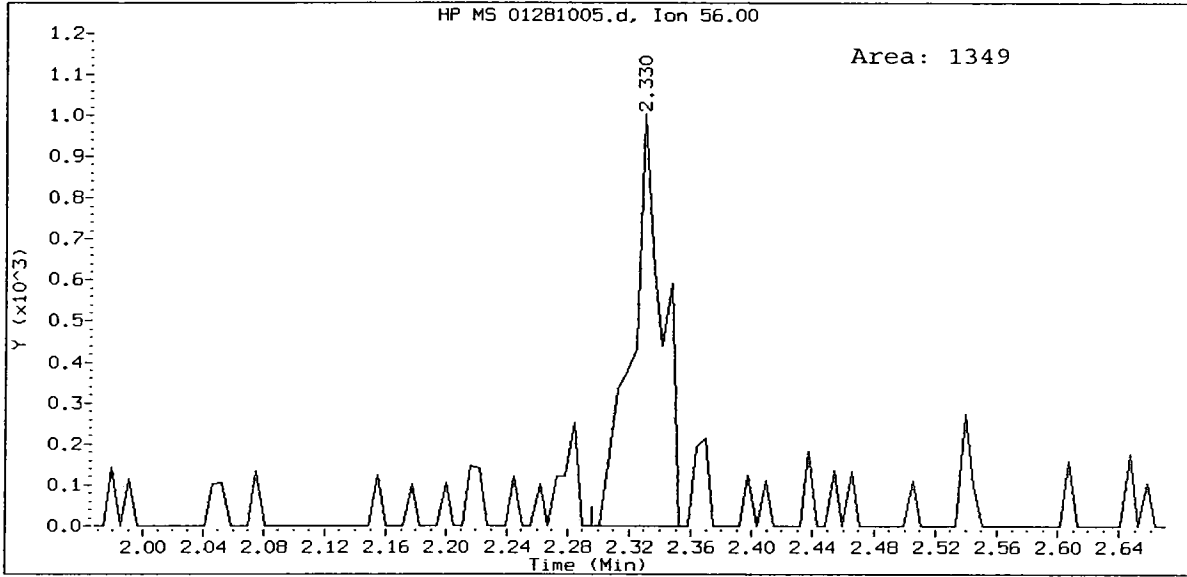
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Bromomethane Amount: 0.18



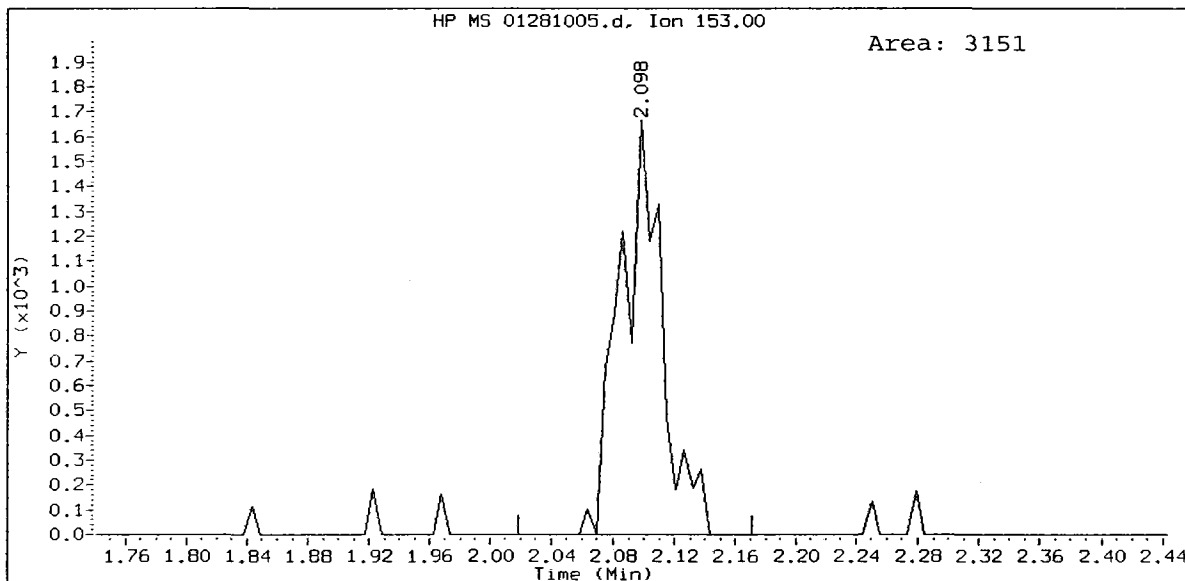
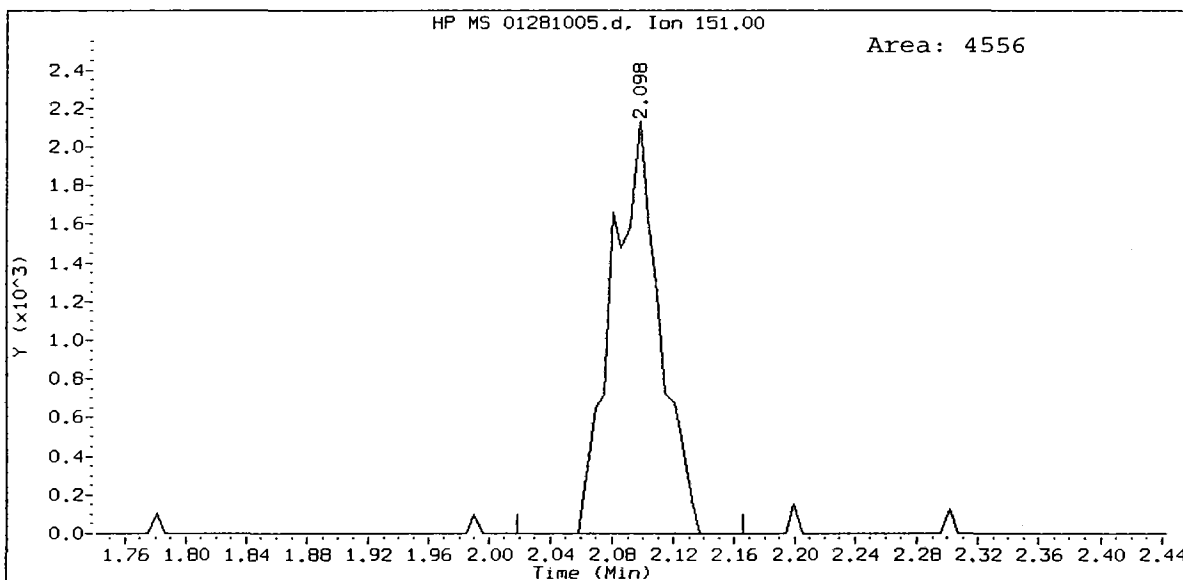
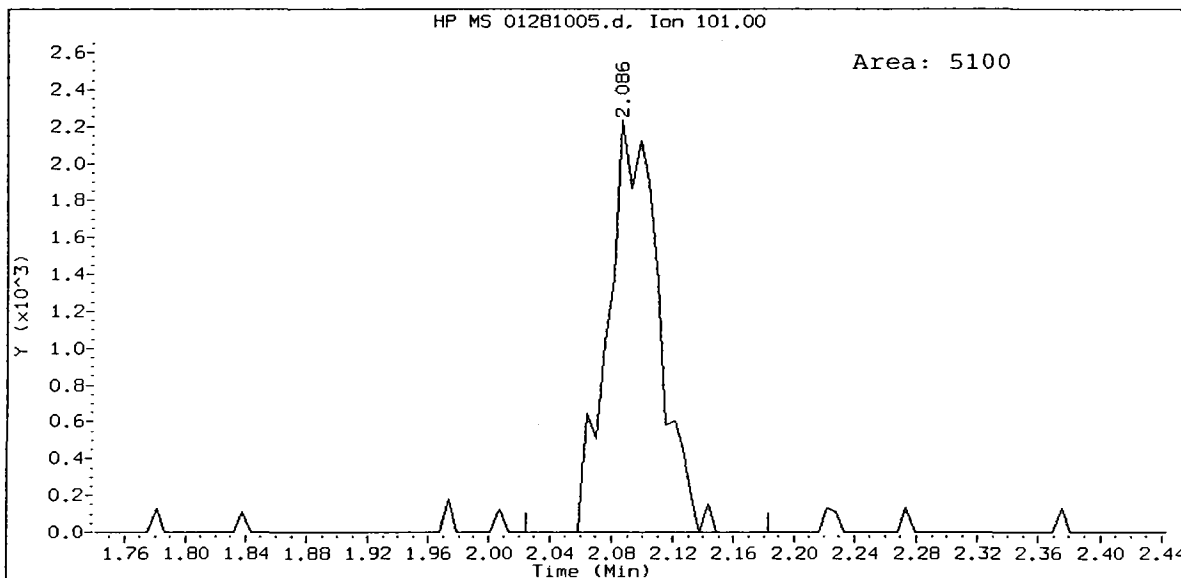
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Chloroethane Amount: 0.23



0.2 0127, /chem1/nt5.i/28JAN10.b/01281005.d
Acrolein Amount: 1.06



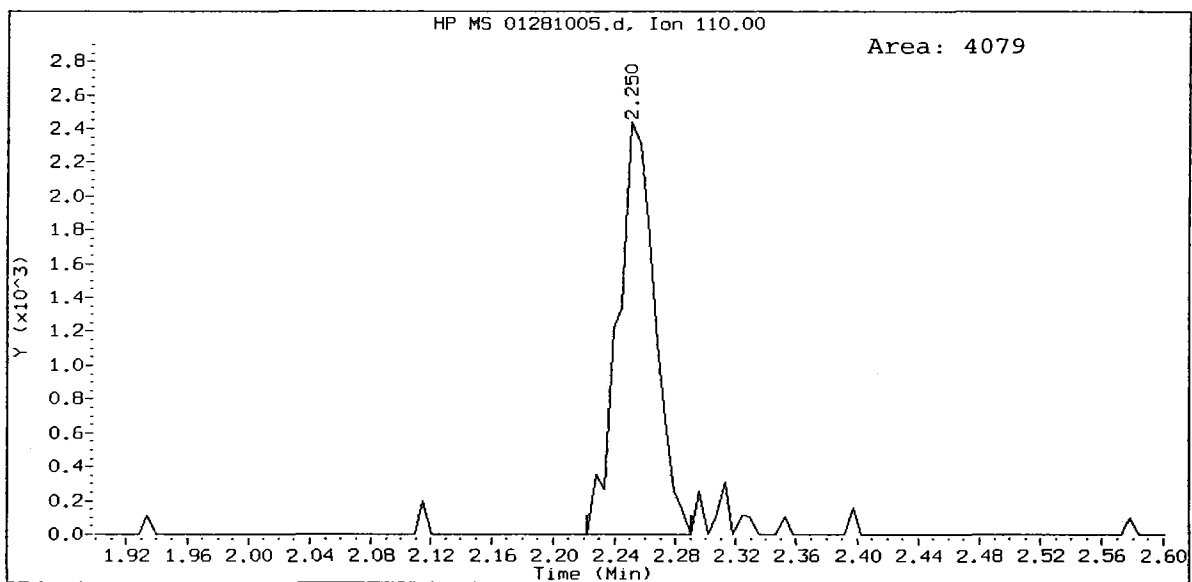
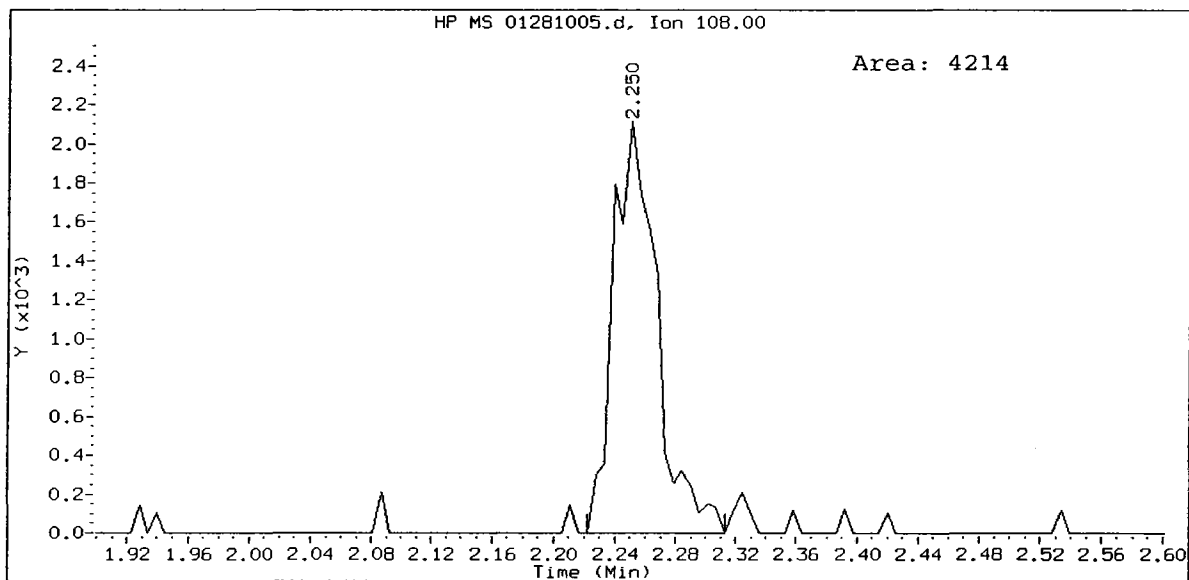
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112Trichloro122Trifluoroethane Amount: 0.20



QL34: 00138

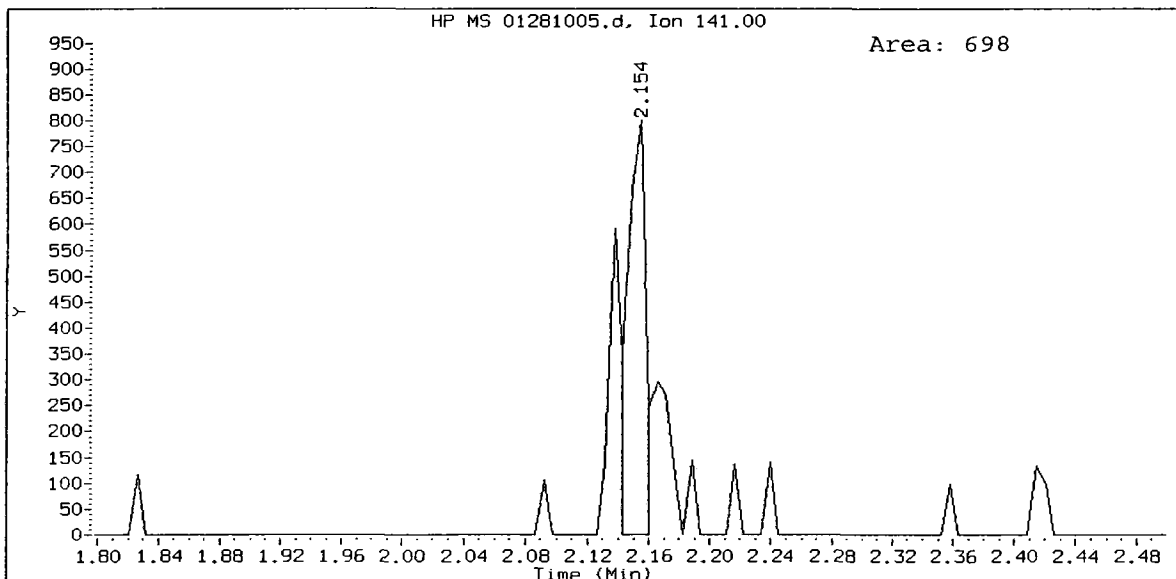
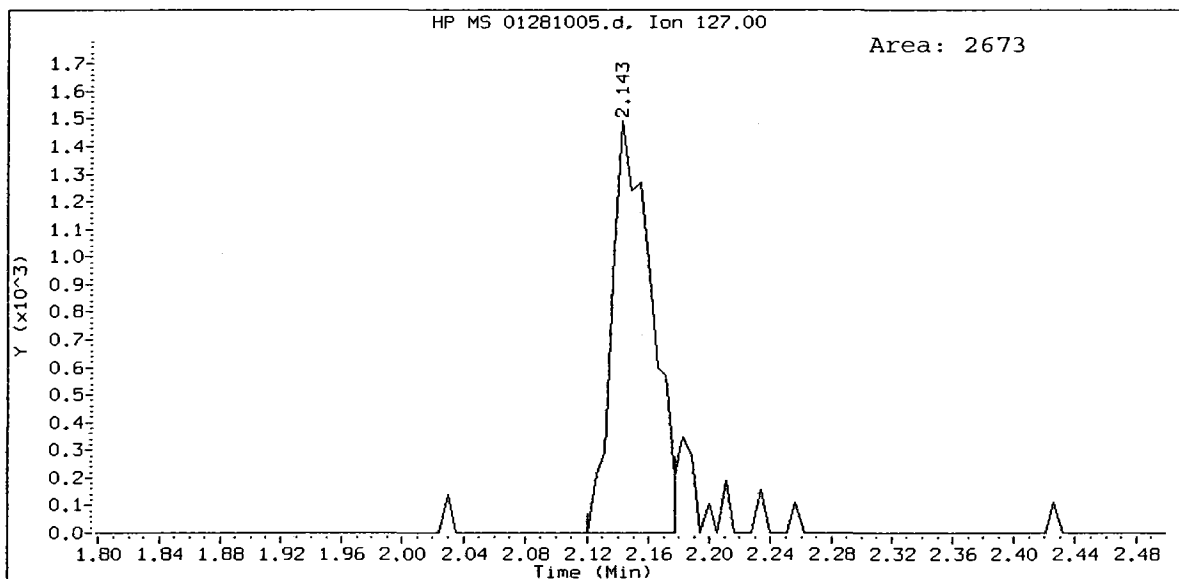
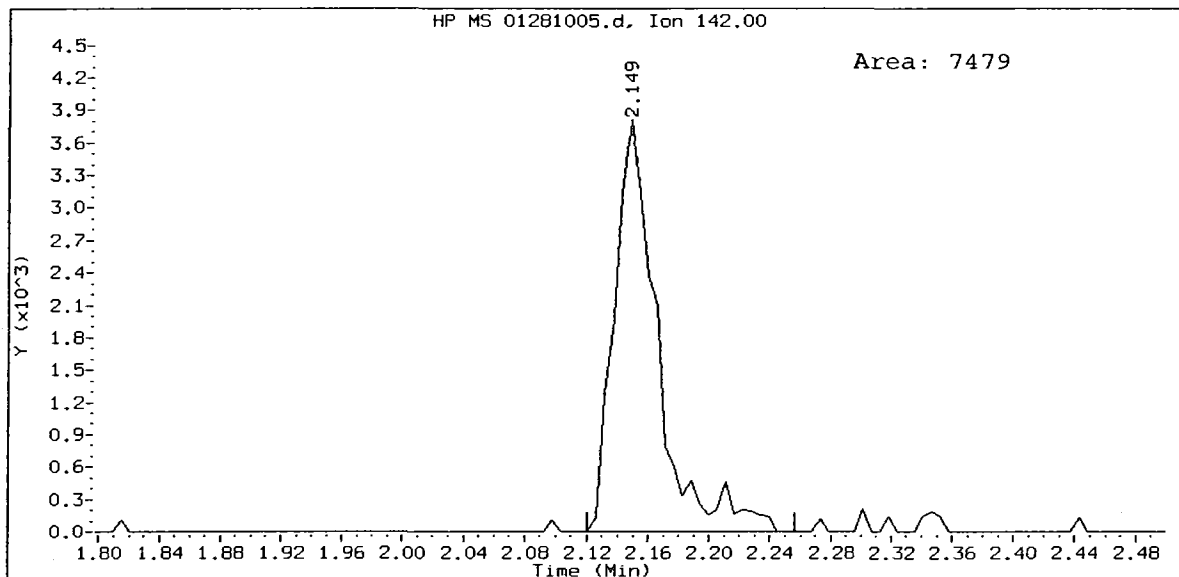
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Bromoethane Amount: 0.22

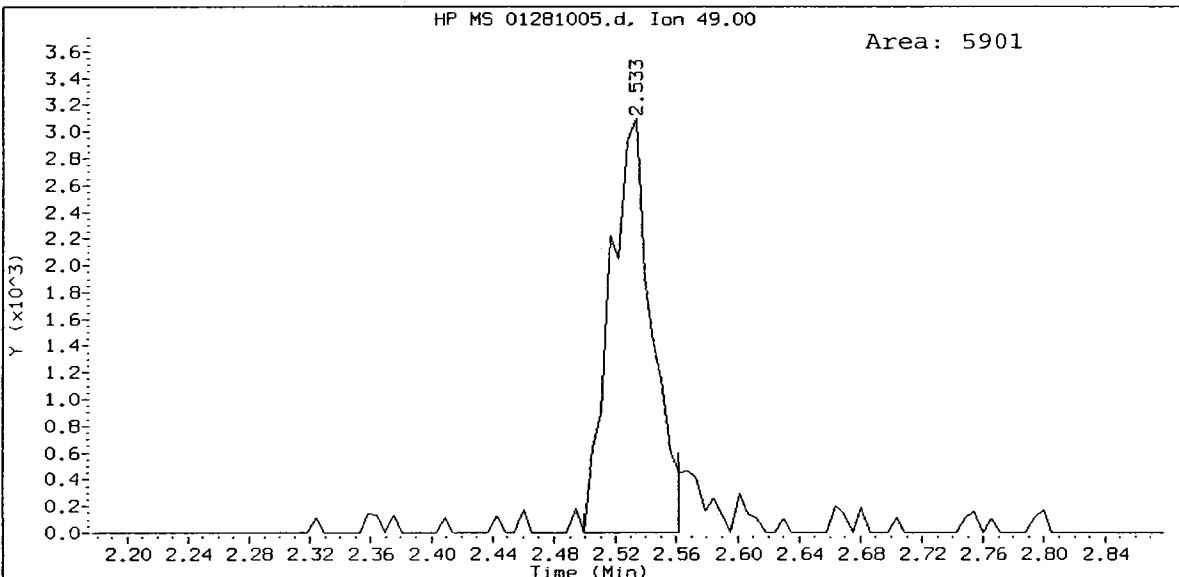
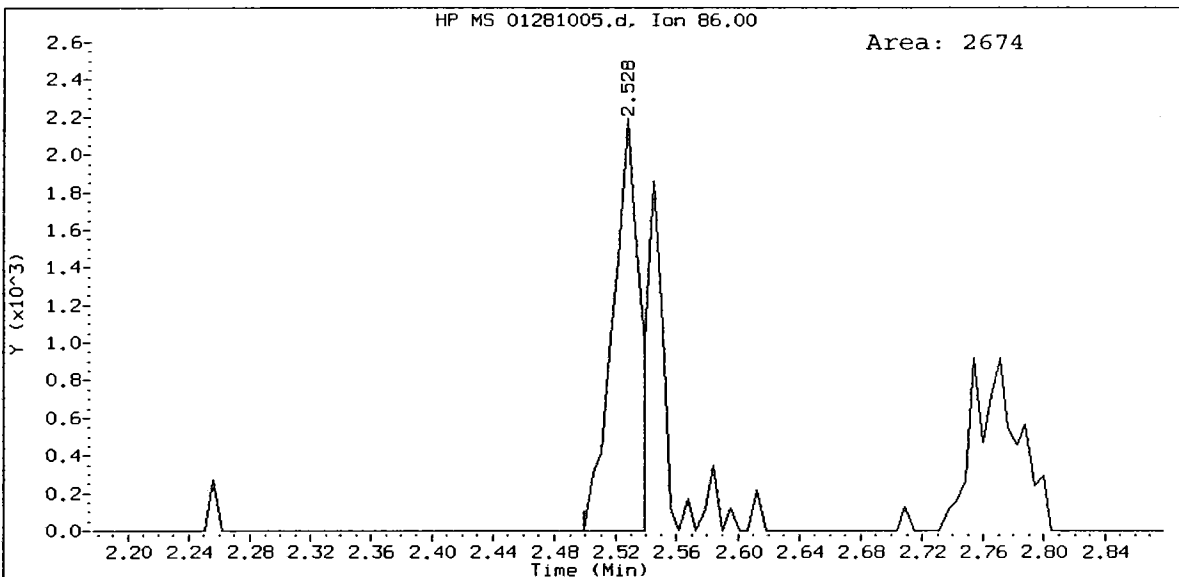
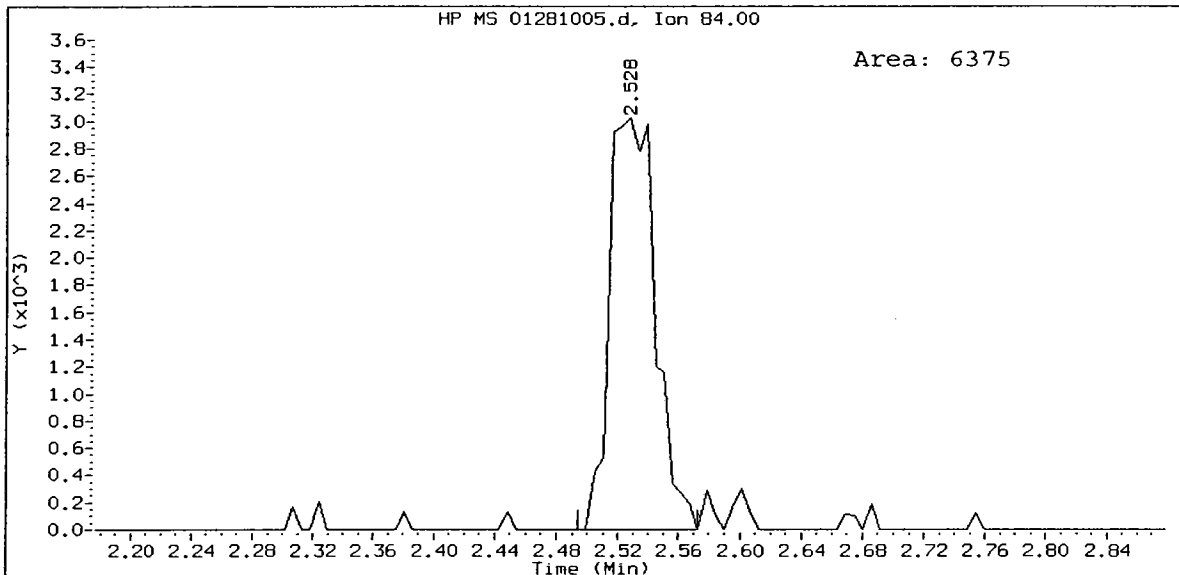


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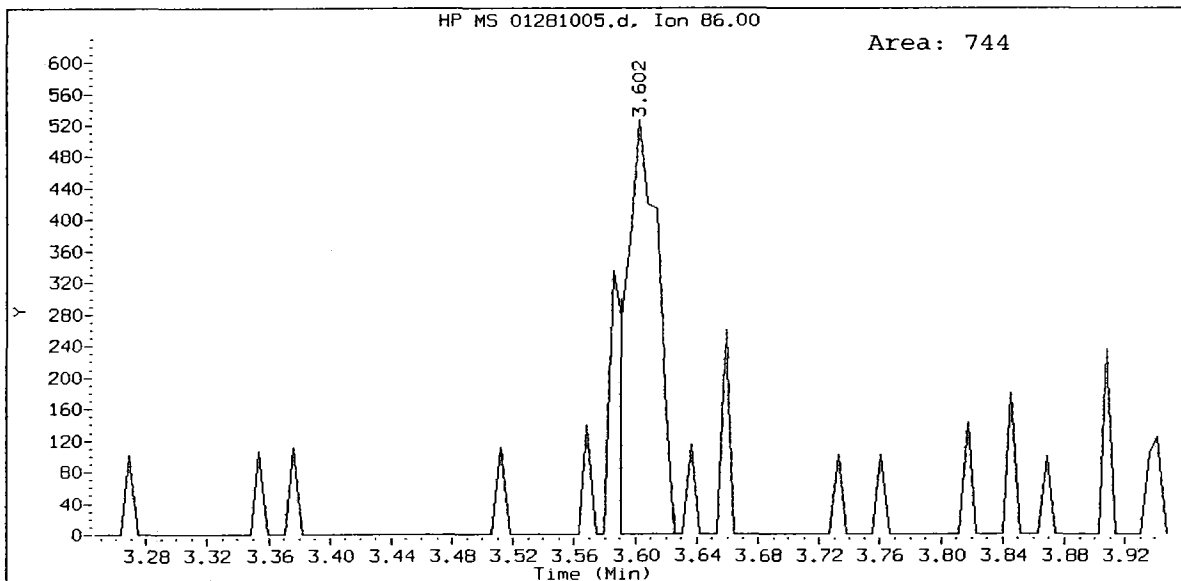
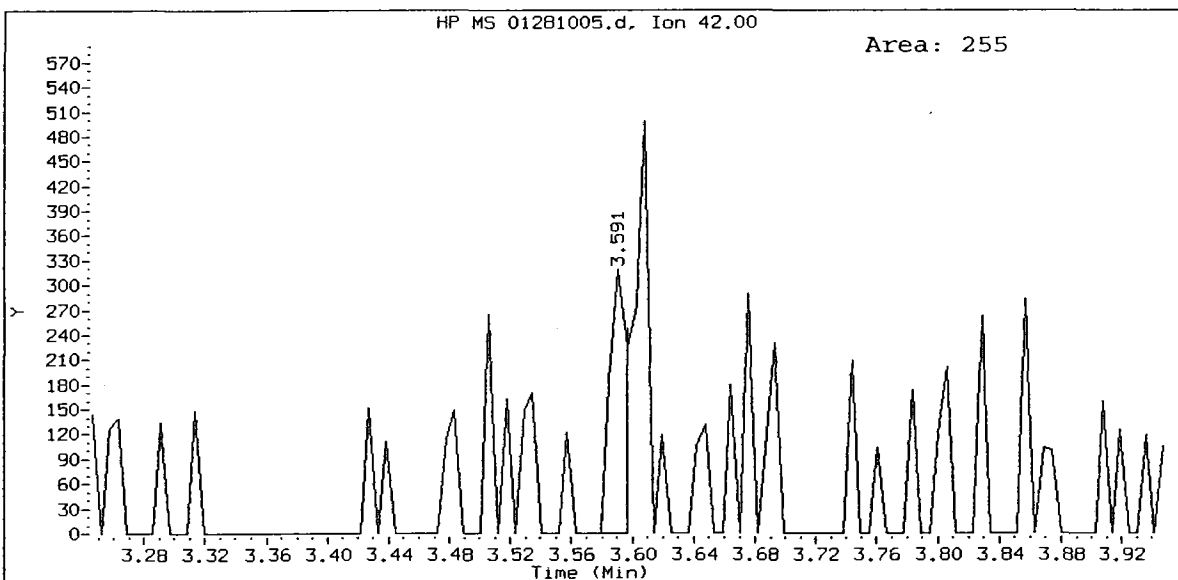
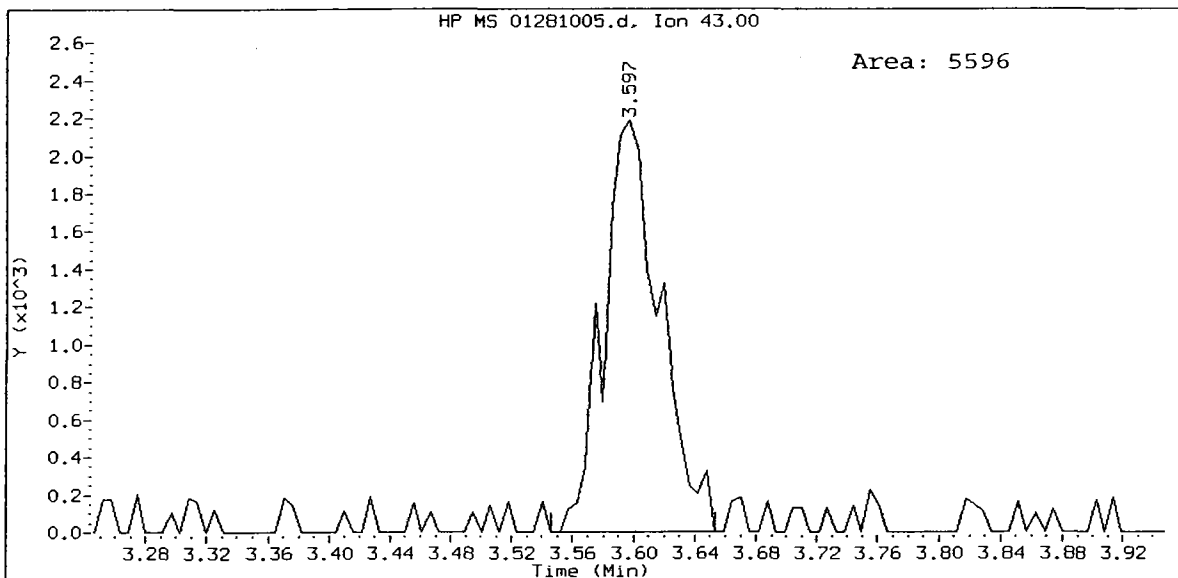
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Iodomethane Amount: 0.19



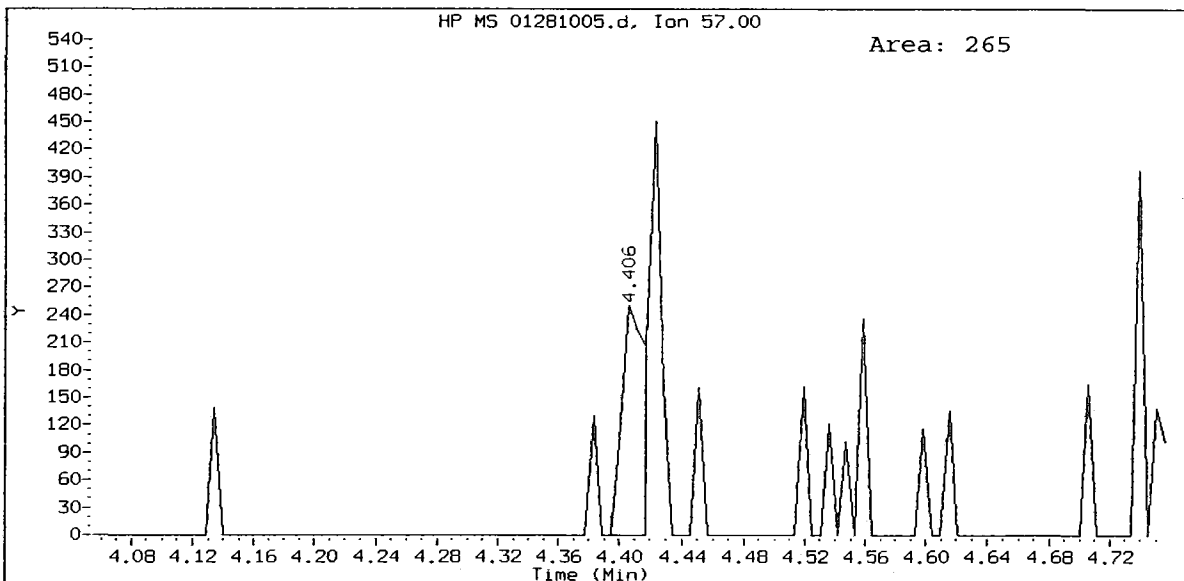
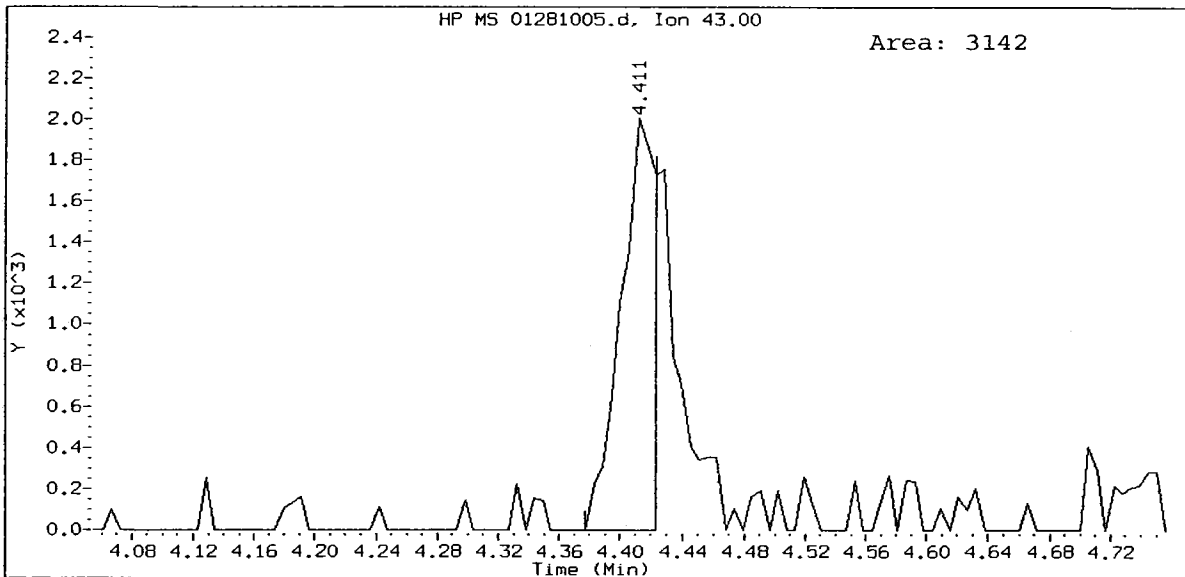
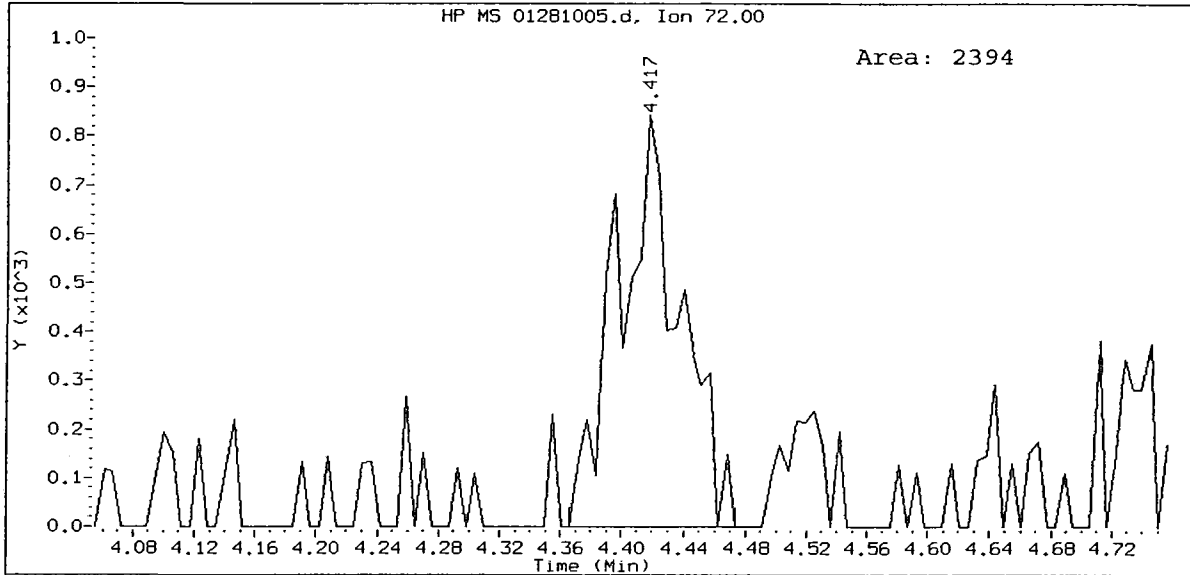
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Methylene Chloride Amount: 0.24



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Vinyl Acetate Amount: 0.22

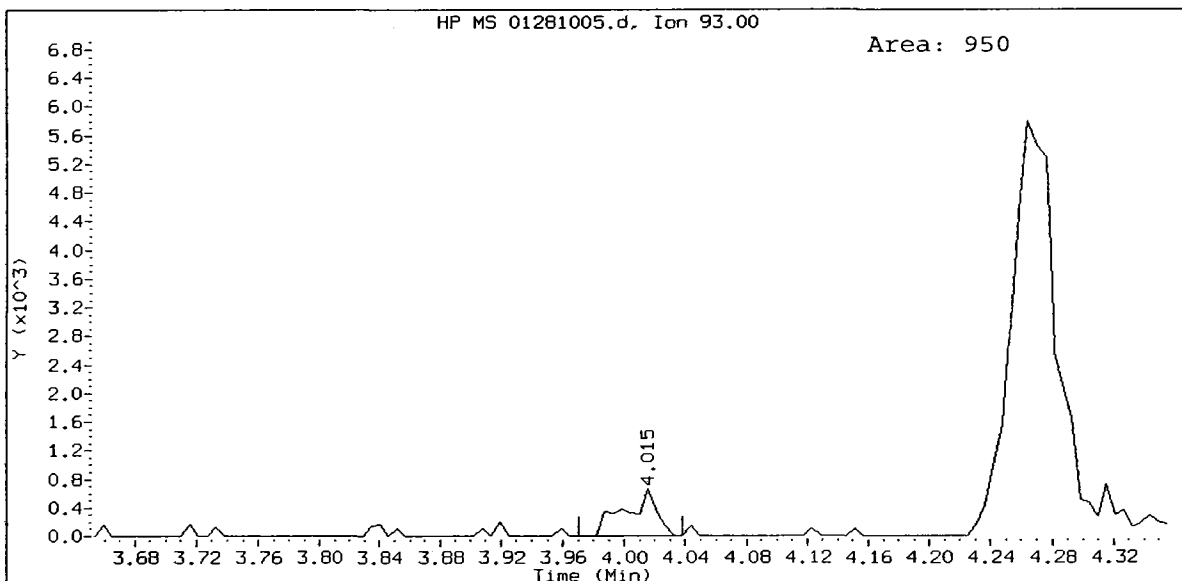
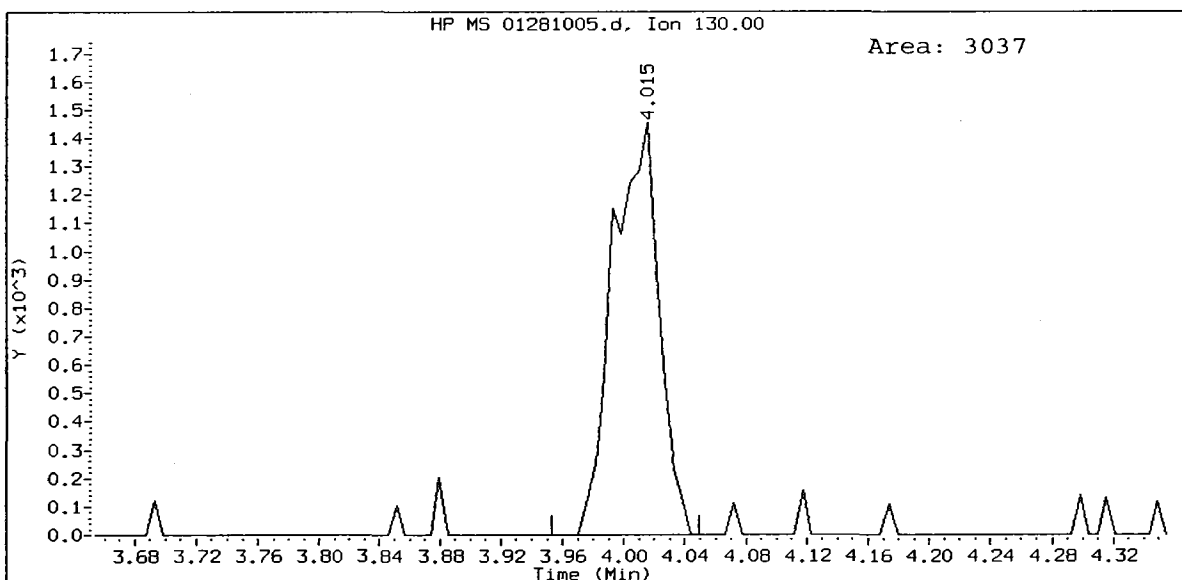
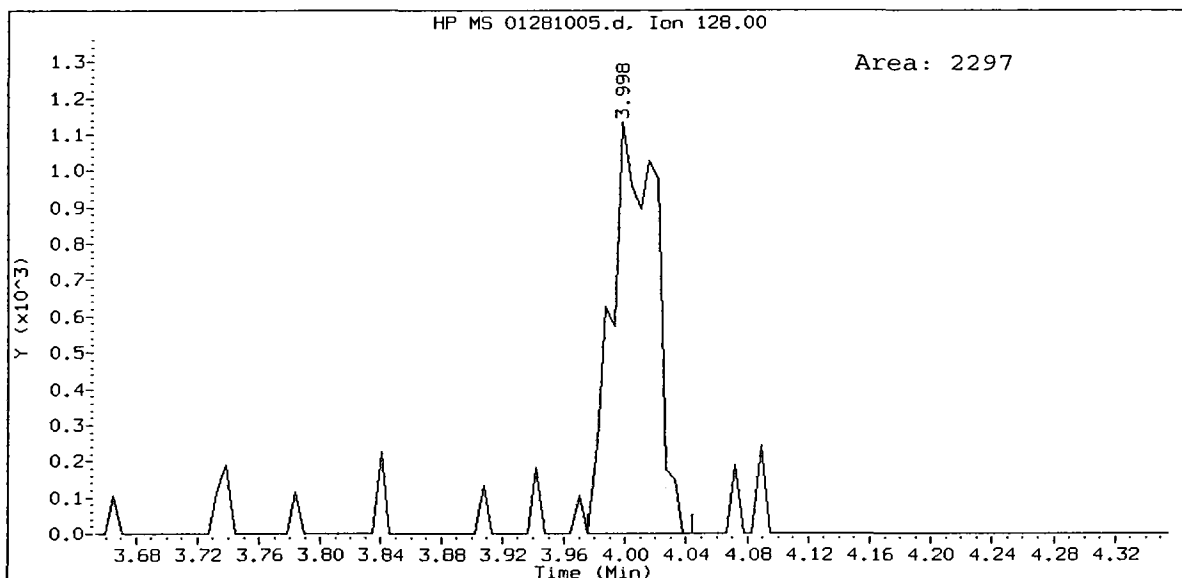


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2-Butanone Amount: 1.57

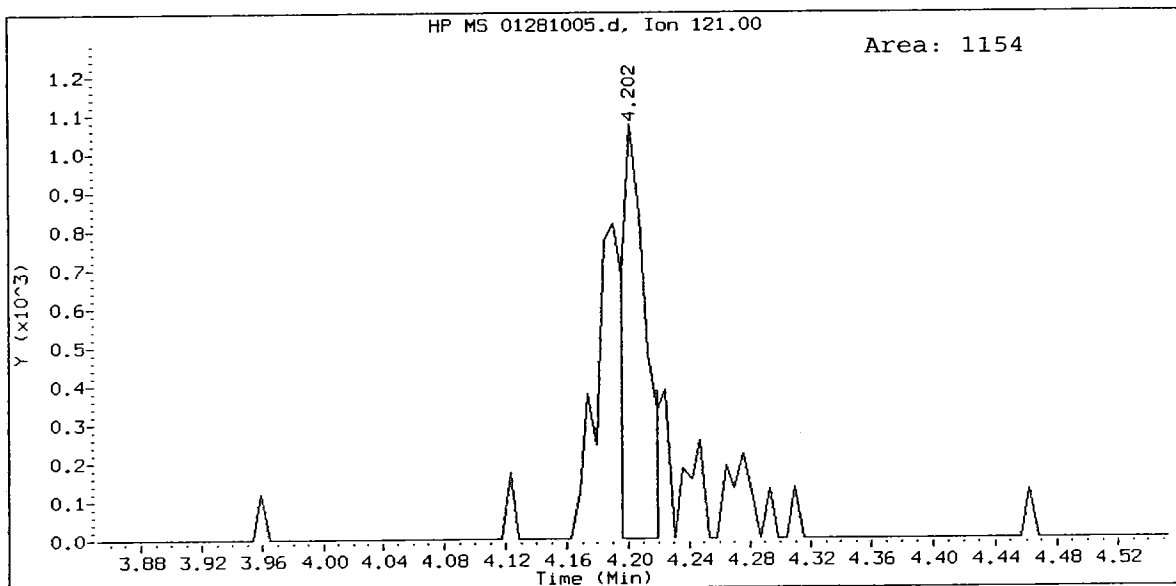
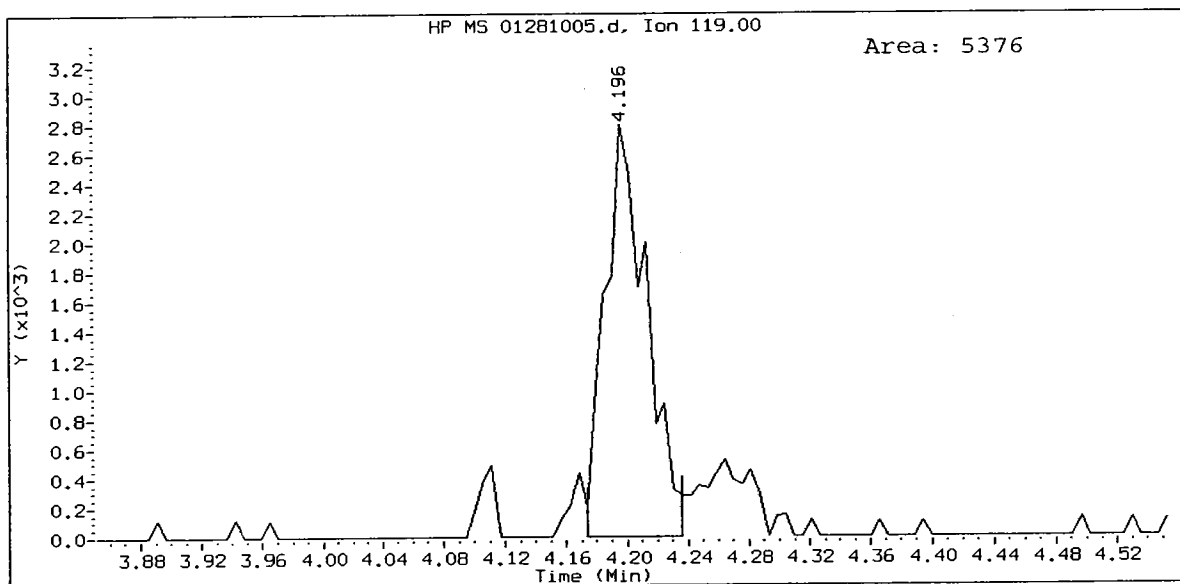
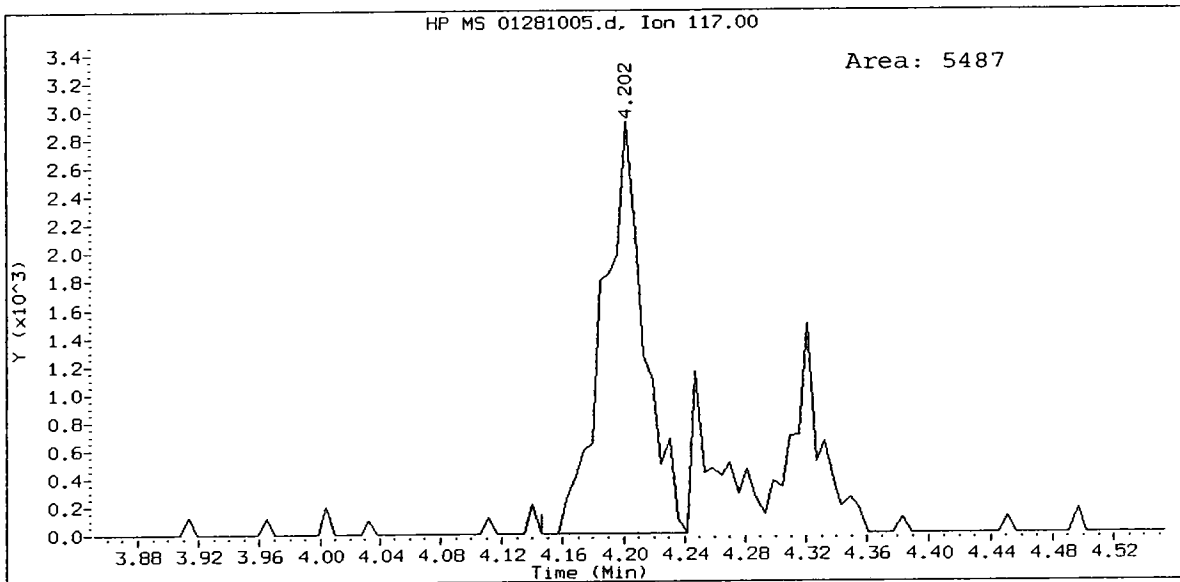


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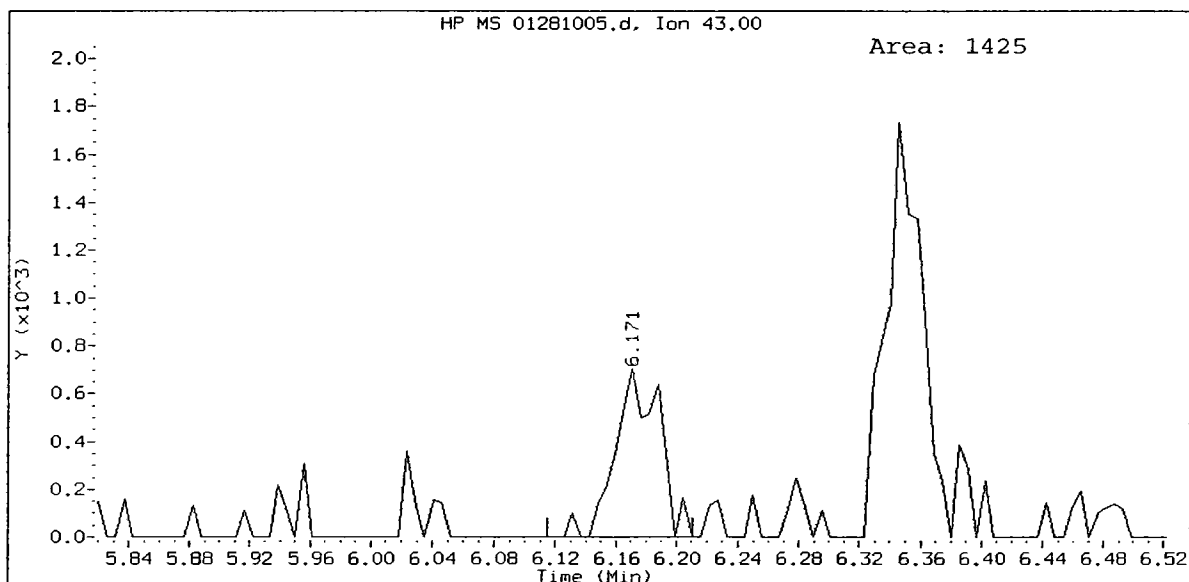
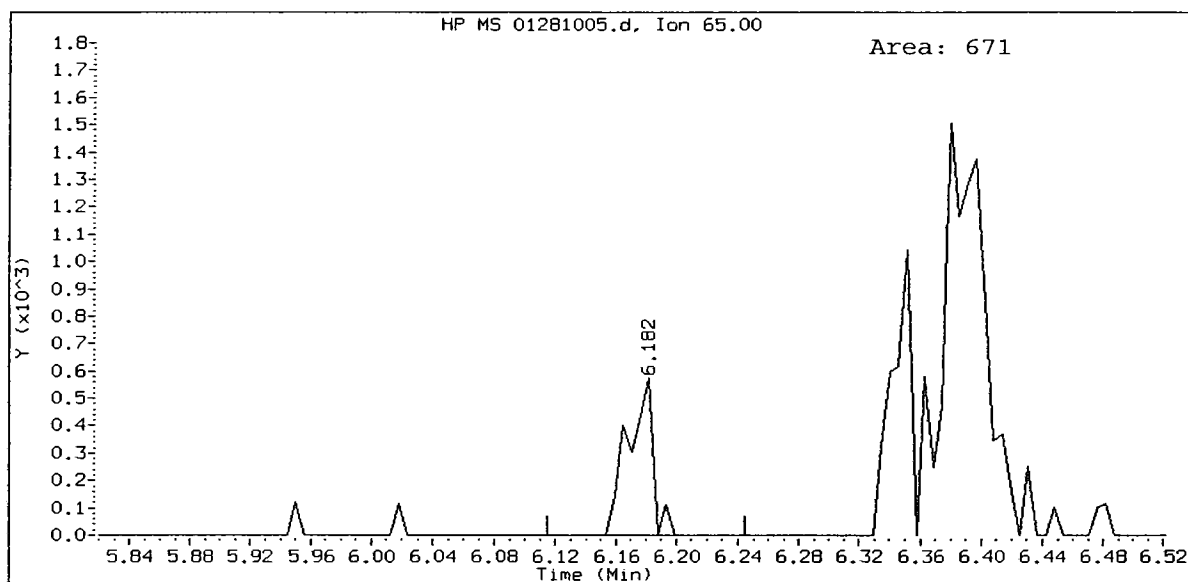
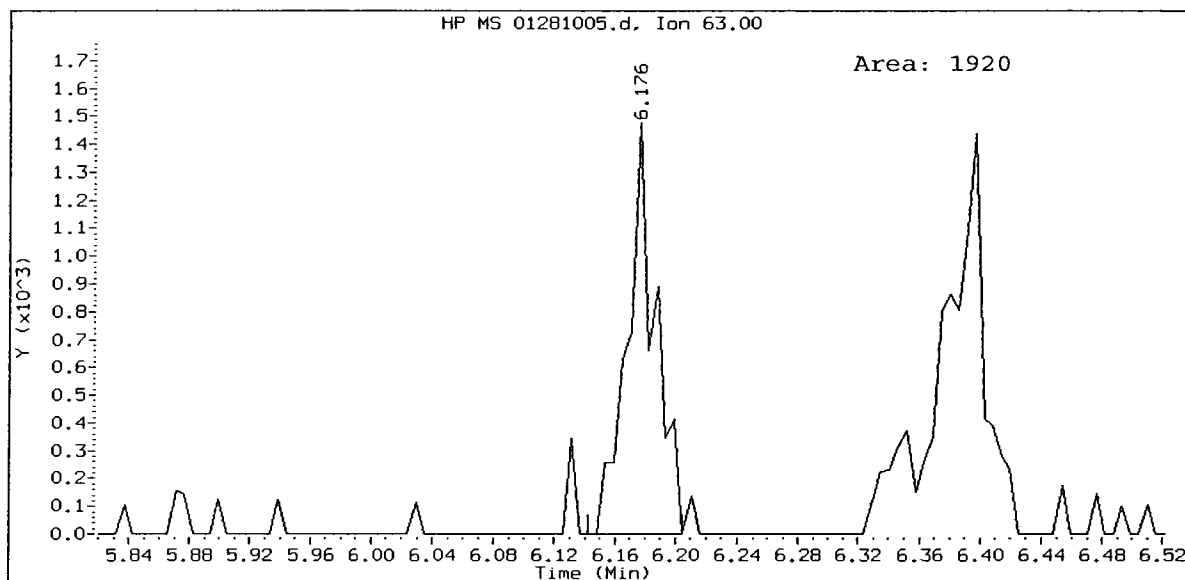
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Bromochloromethane Amount: 0.20



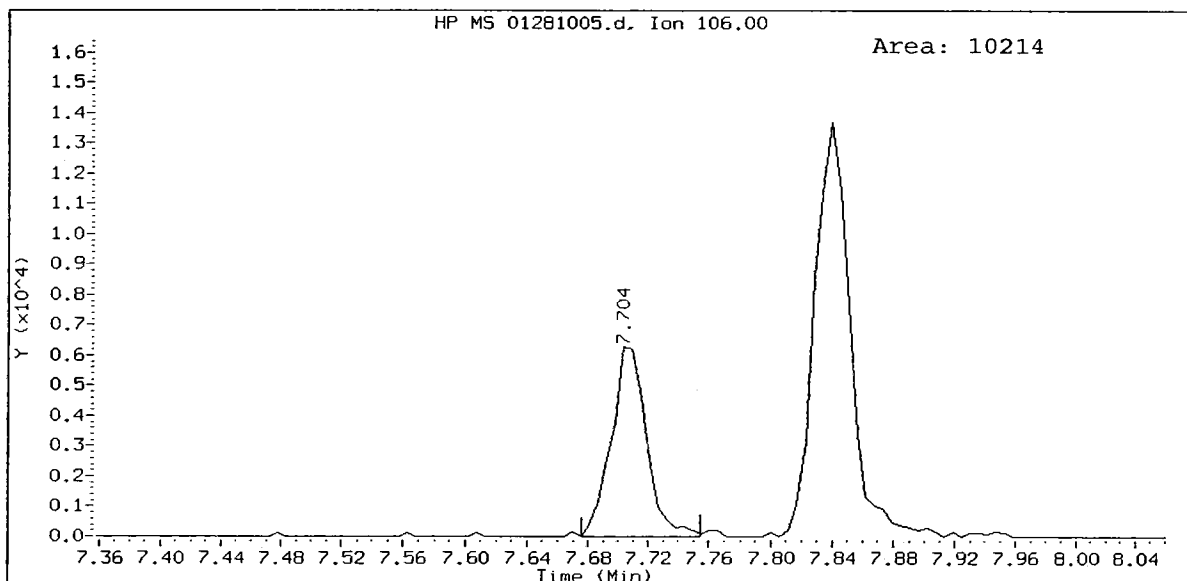
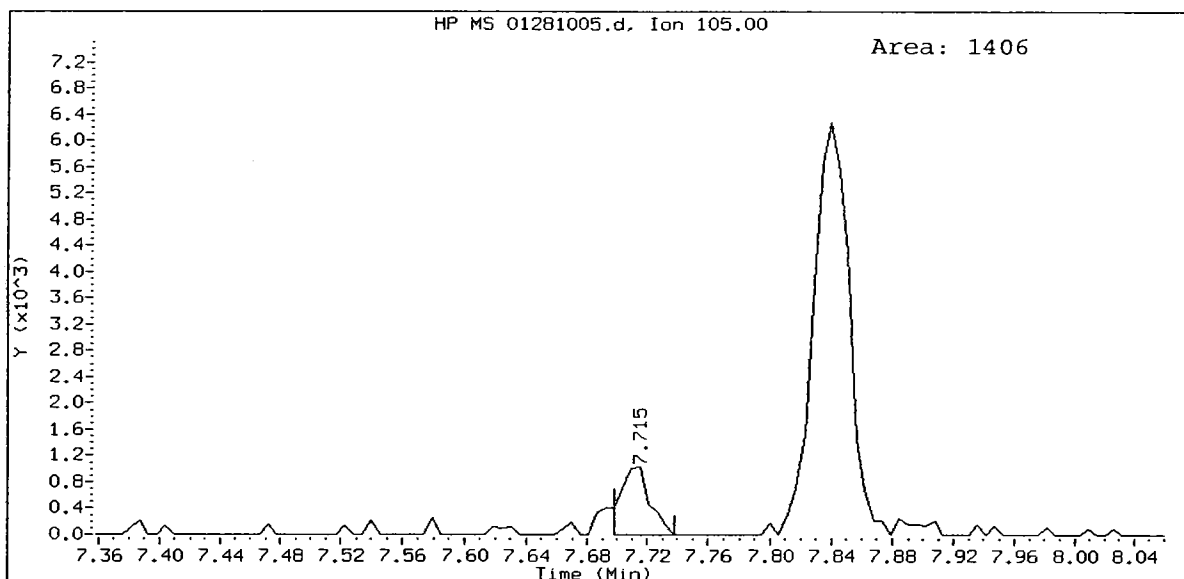
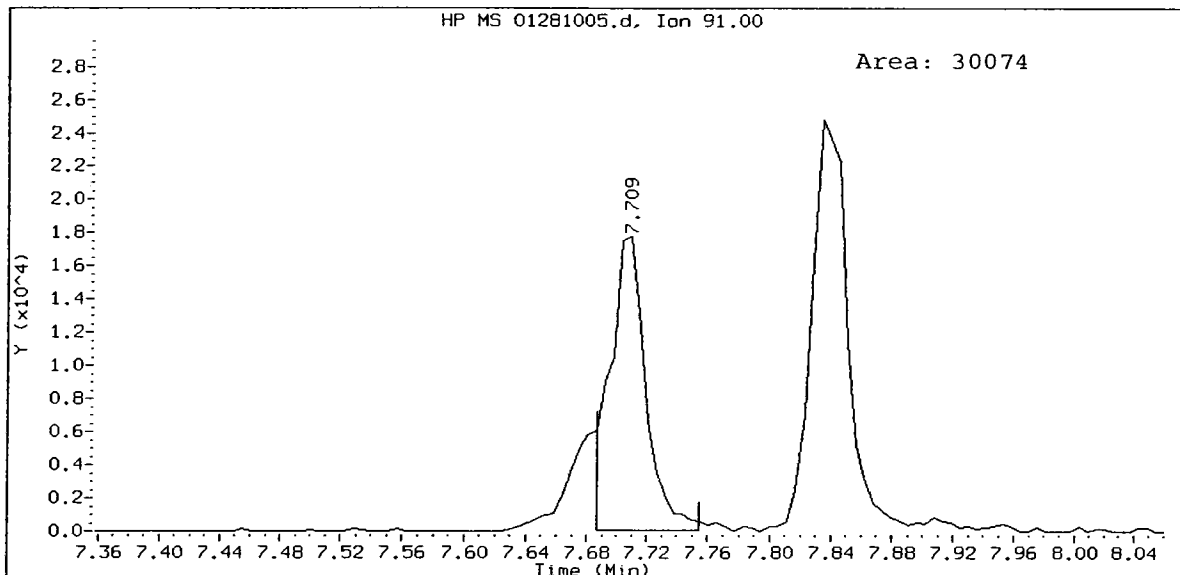
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Carbon Tetrachloride Amount: 0.18



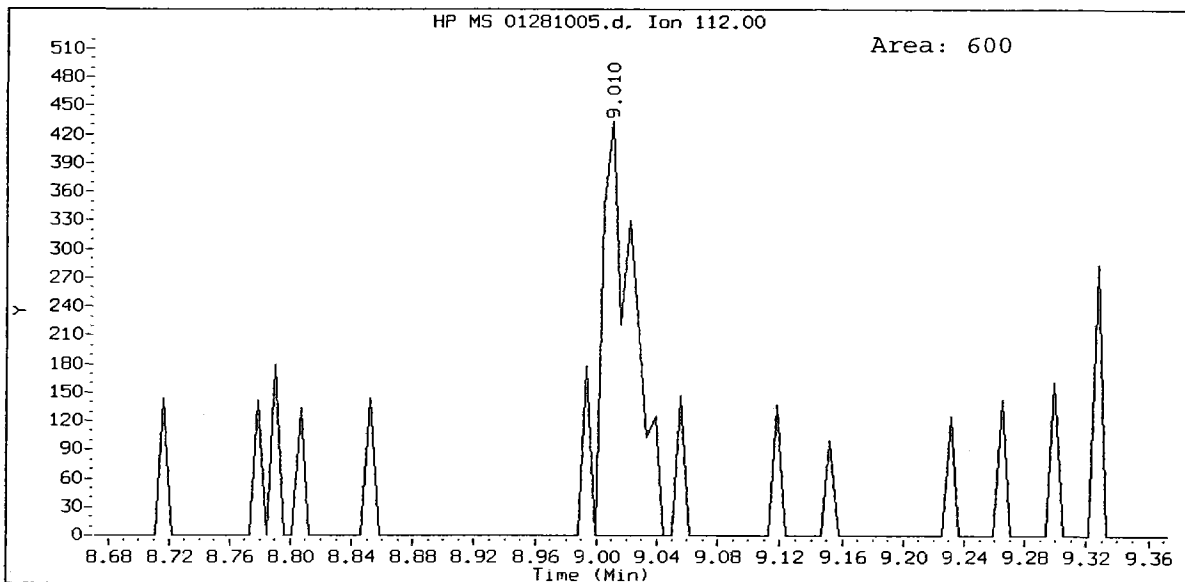
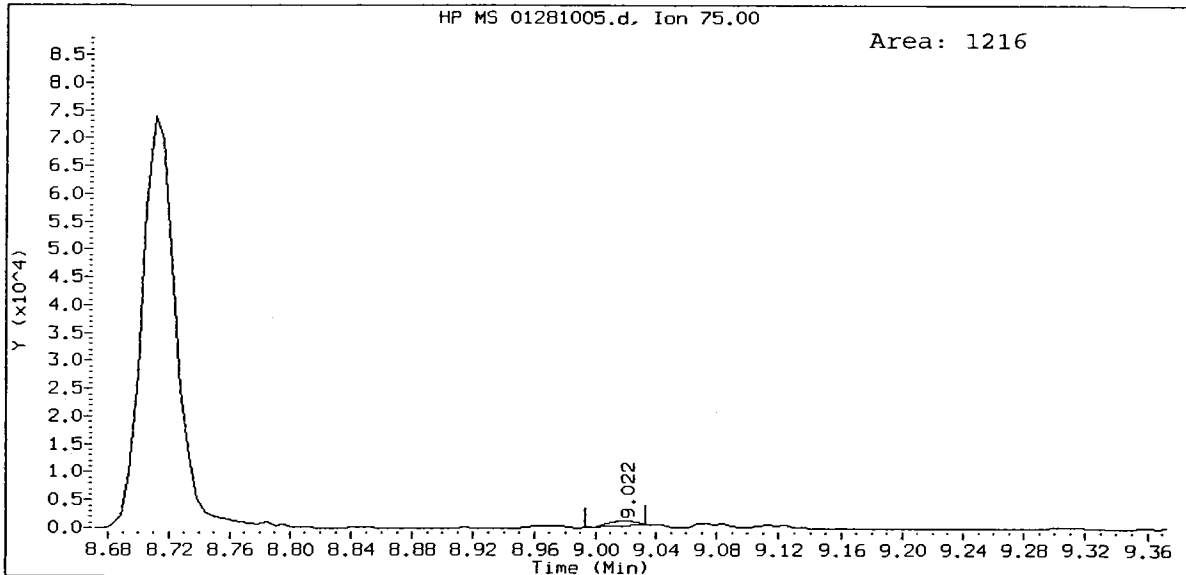
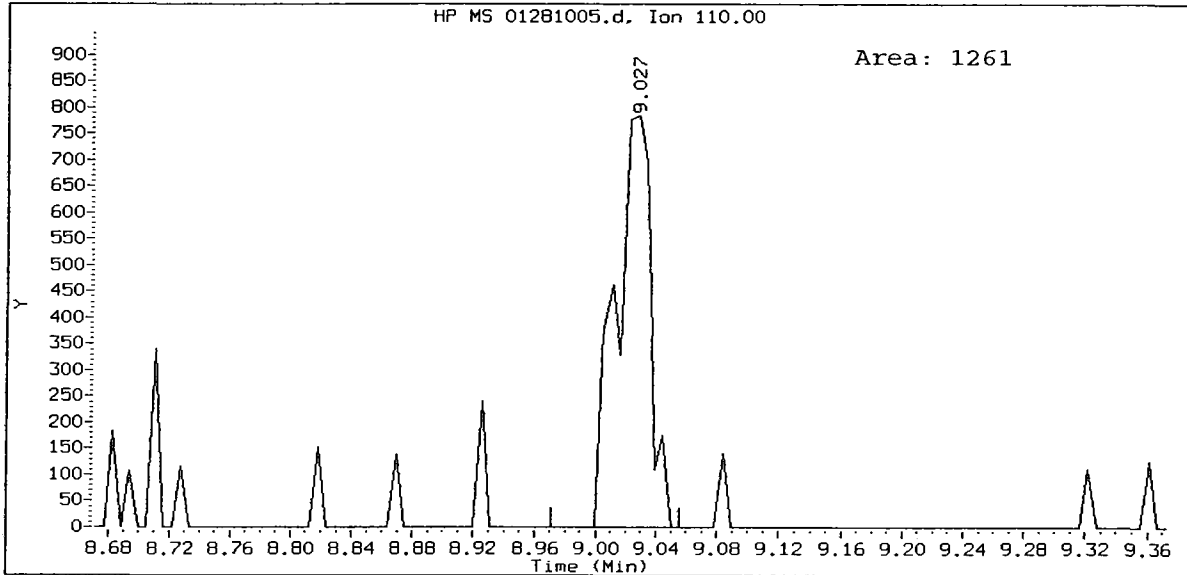
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2-Chloroethyl Vinyl Ether Amount: 0.23



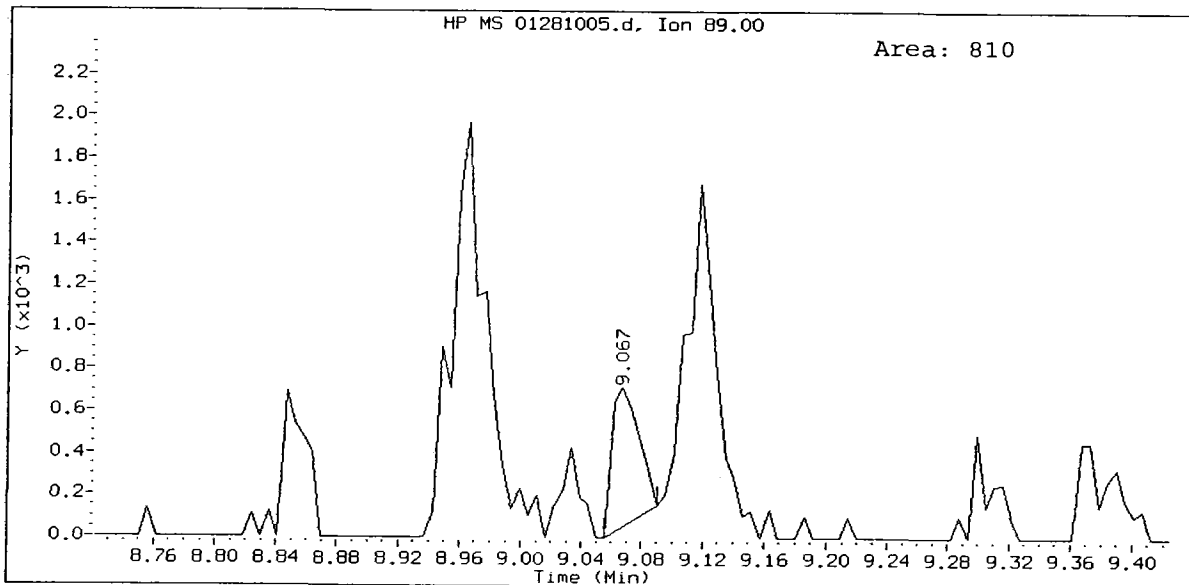
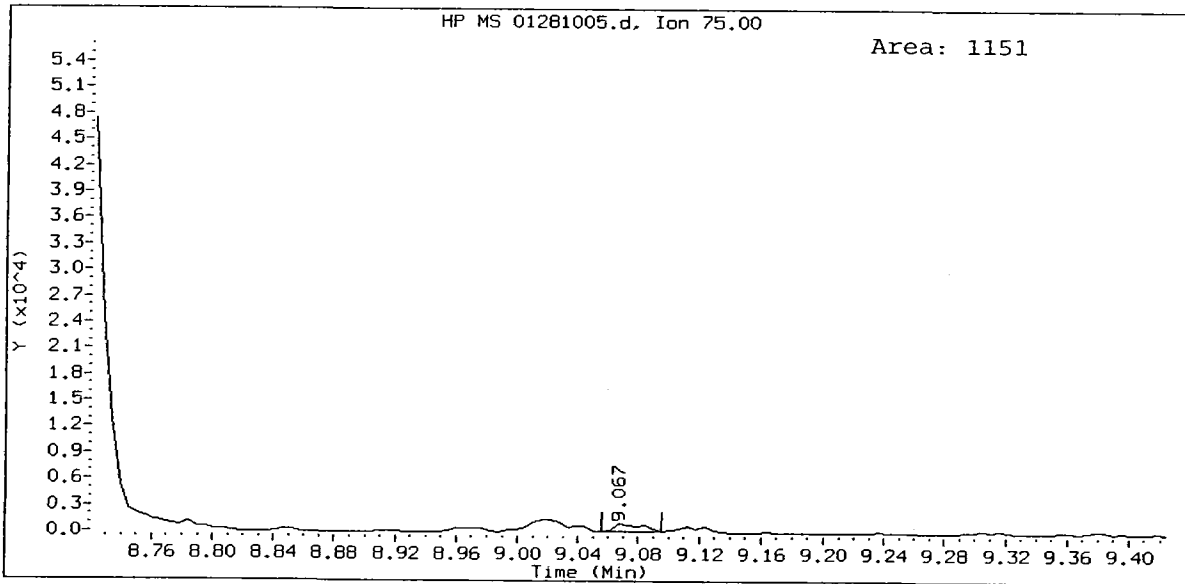
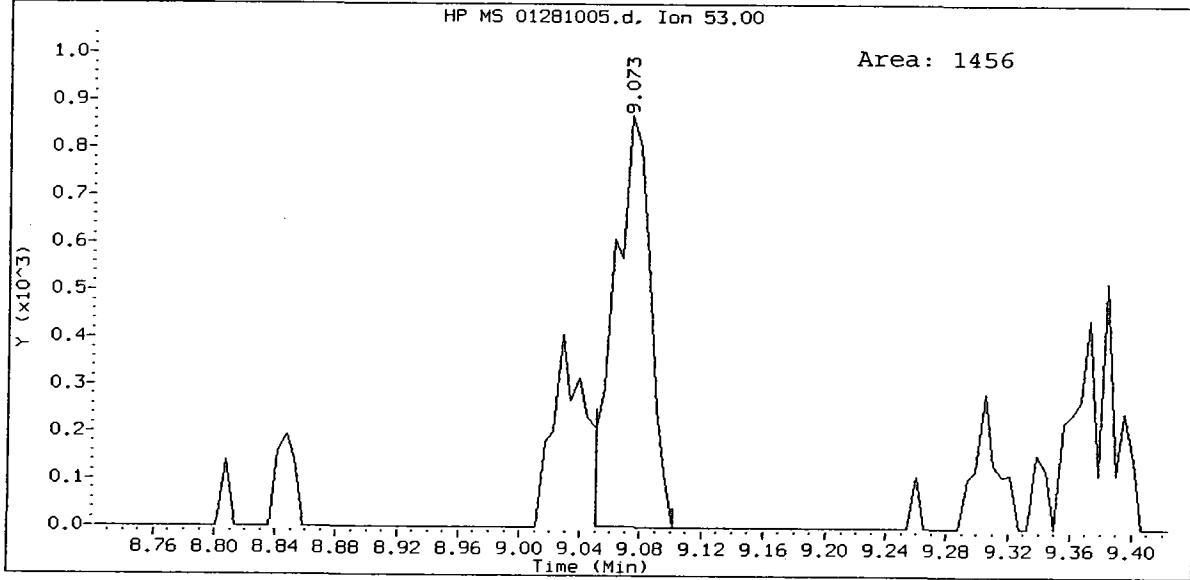
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Ethyl Benzene Amount: 0.22



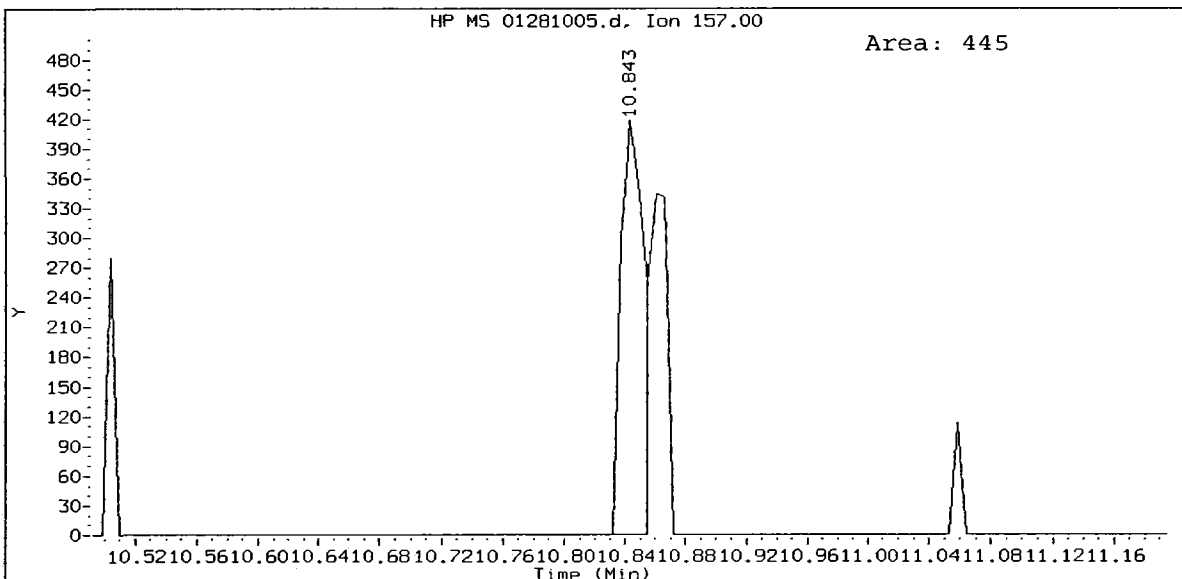
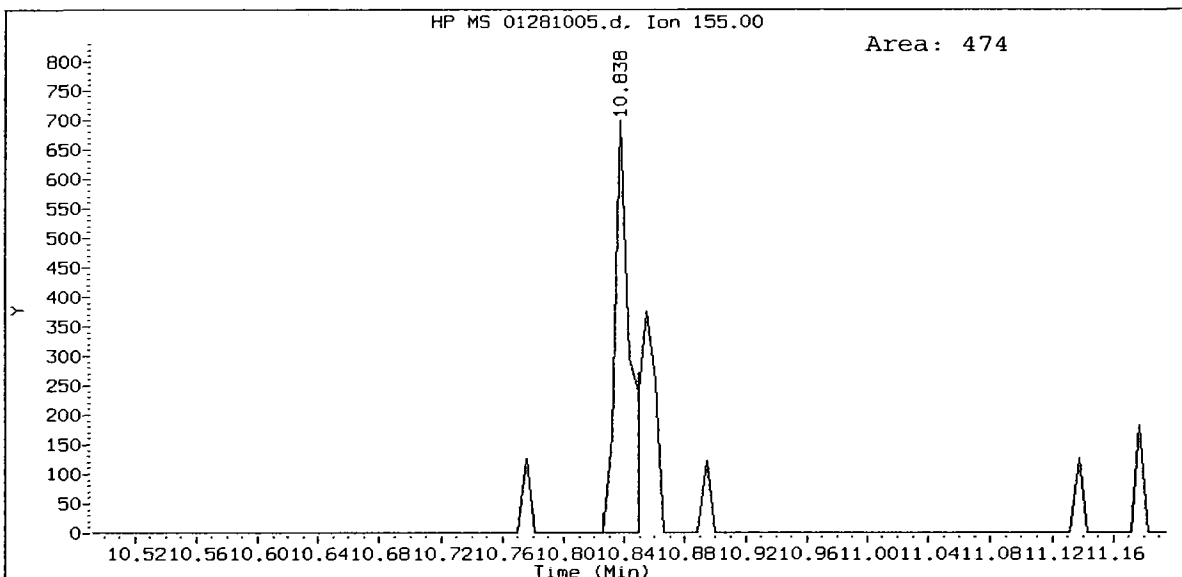
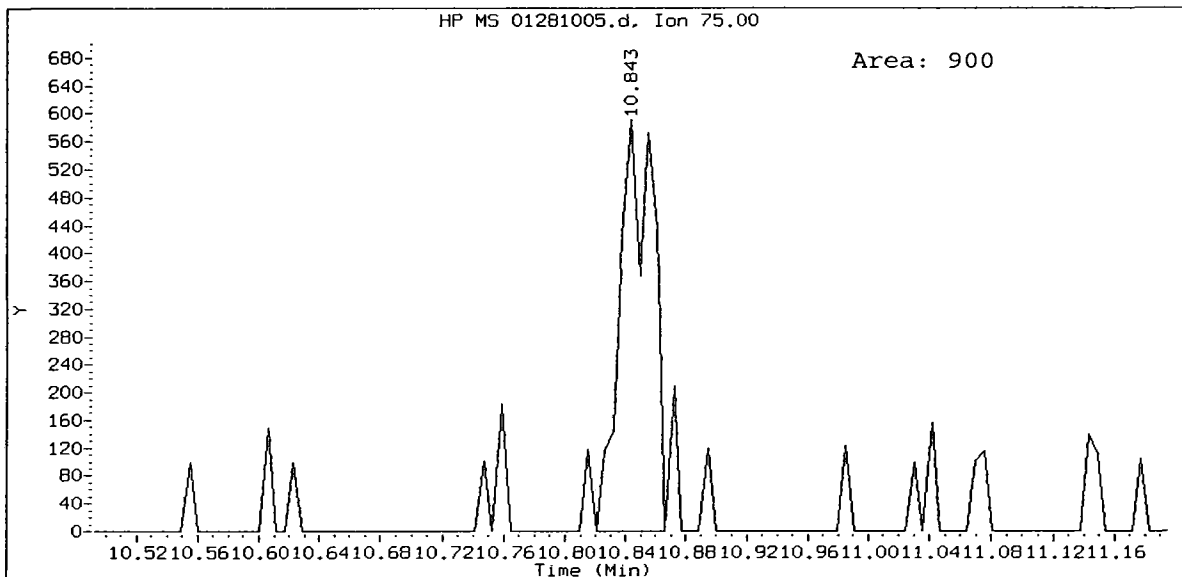
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1,2,3-Trichloropropane Amount: 0.30



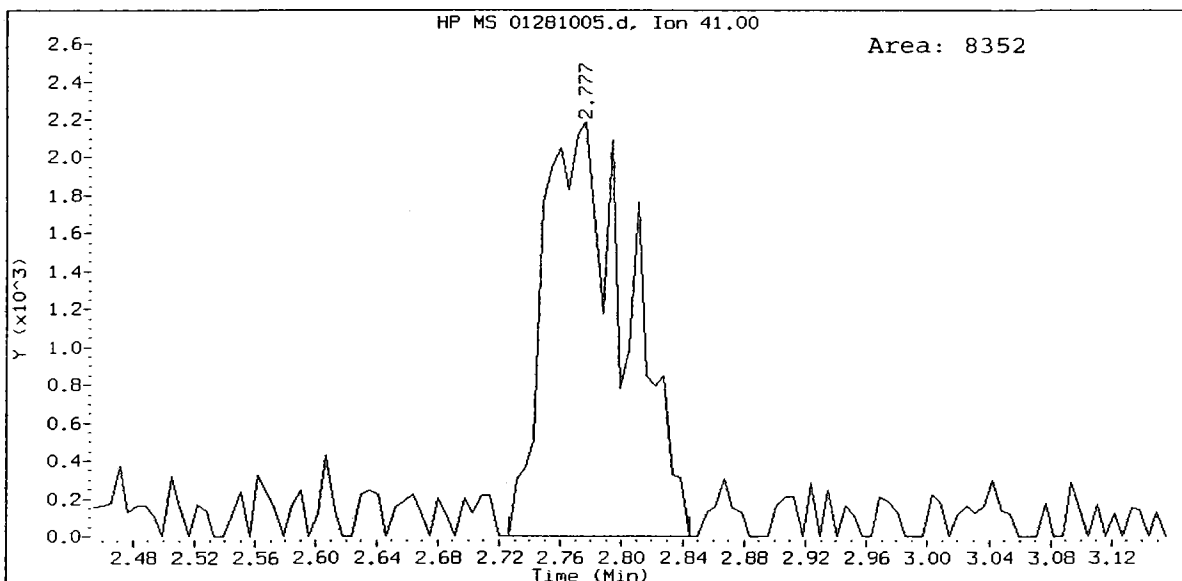
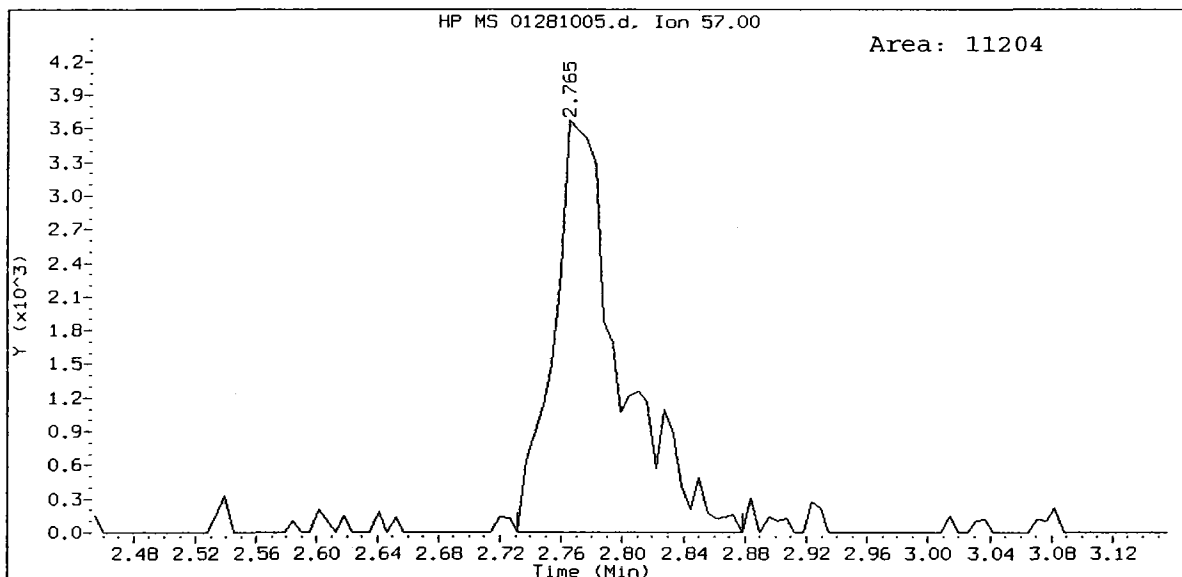
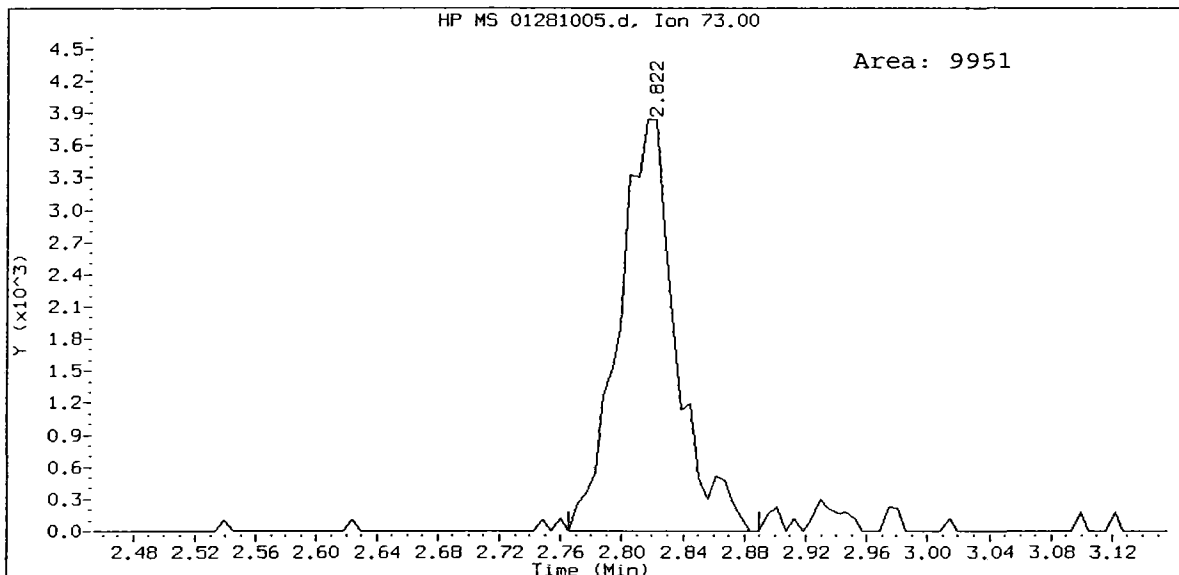
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Trans-1,4-Dichloro 2-Butene Amount: 0.37



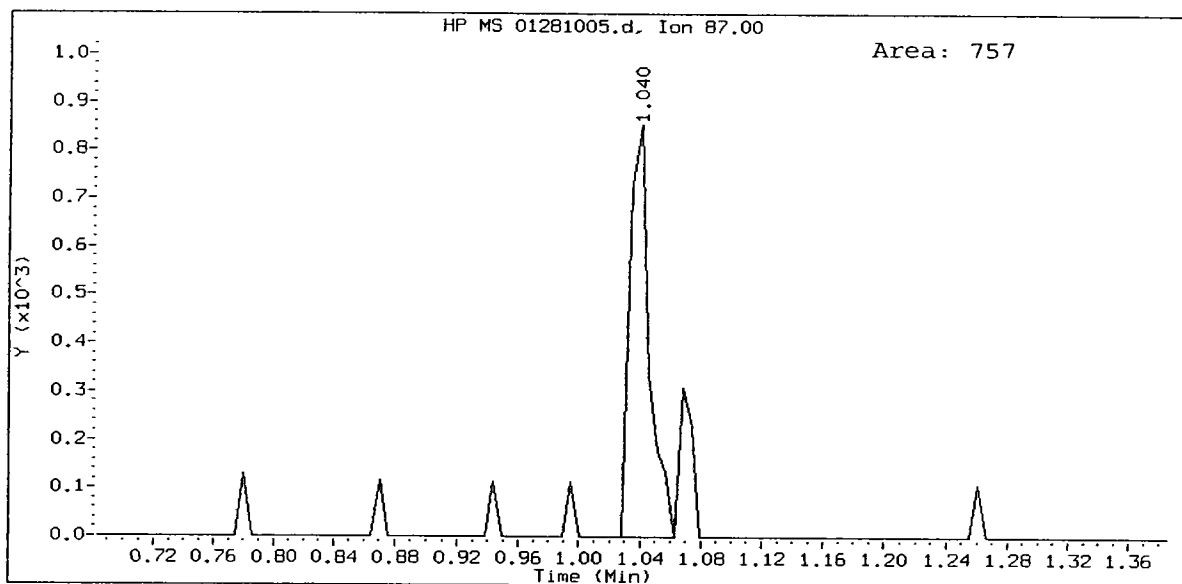
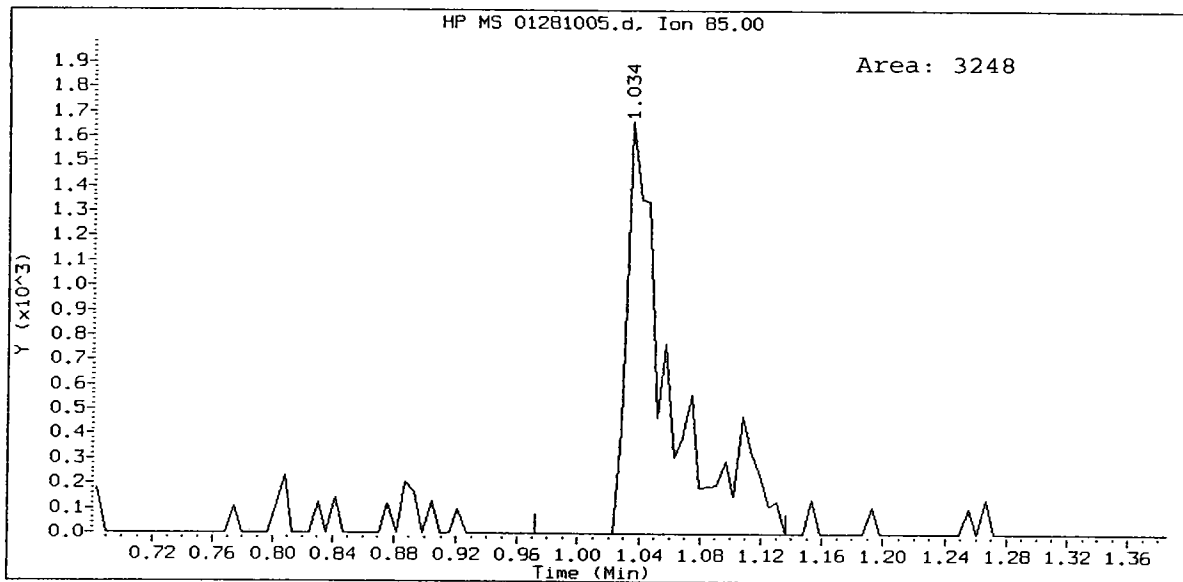
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1,2-Dibromo 3-Chloropropane Amount: 0.35



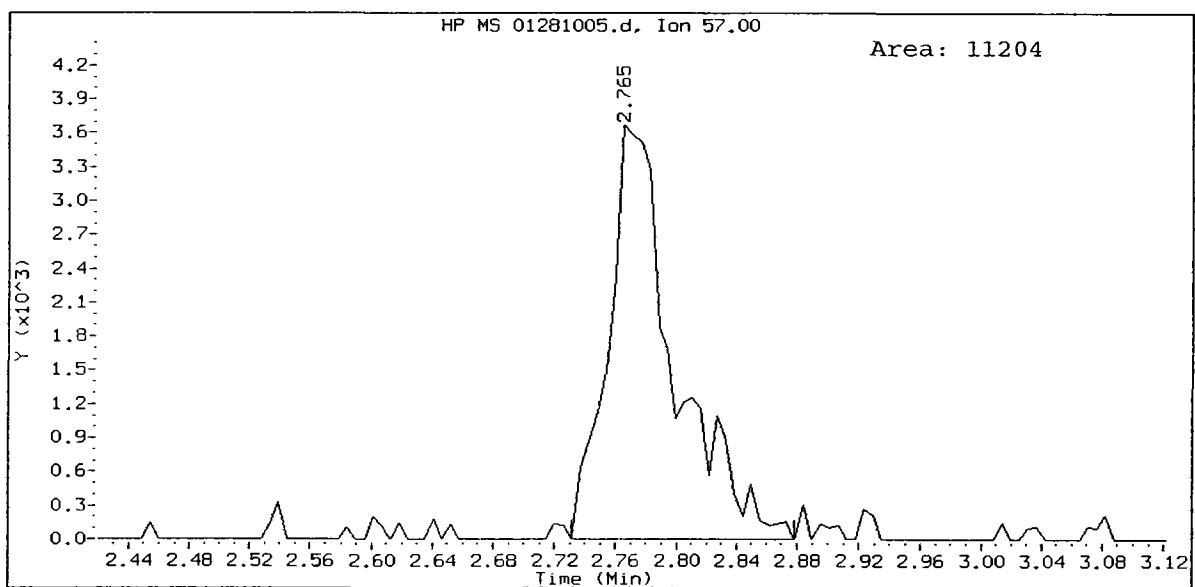
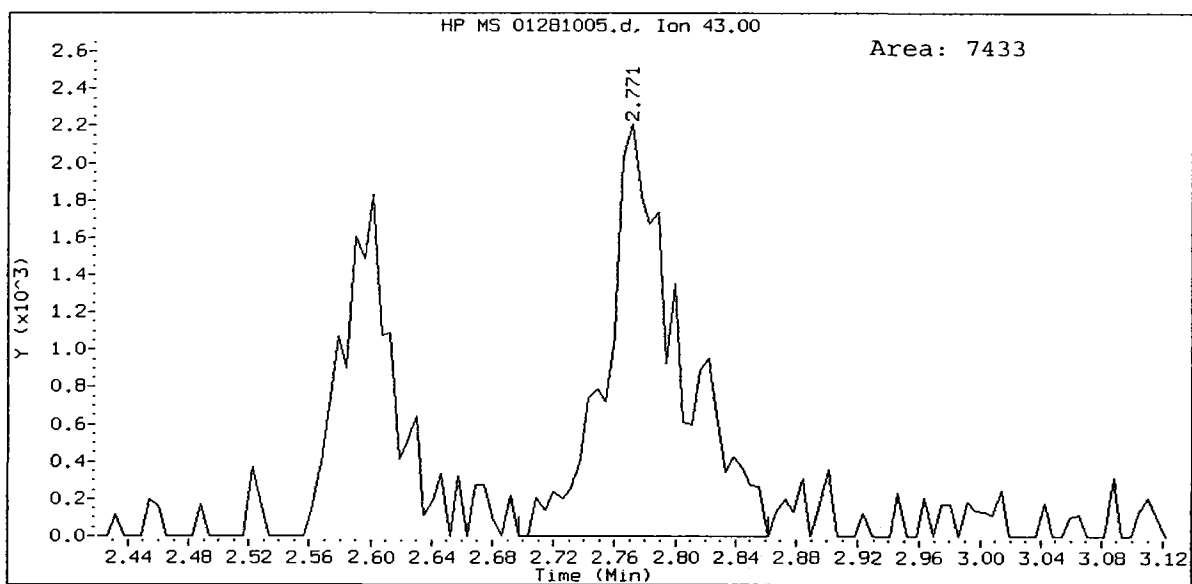
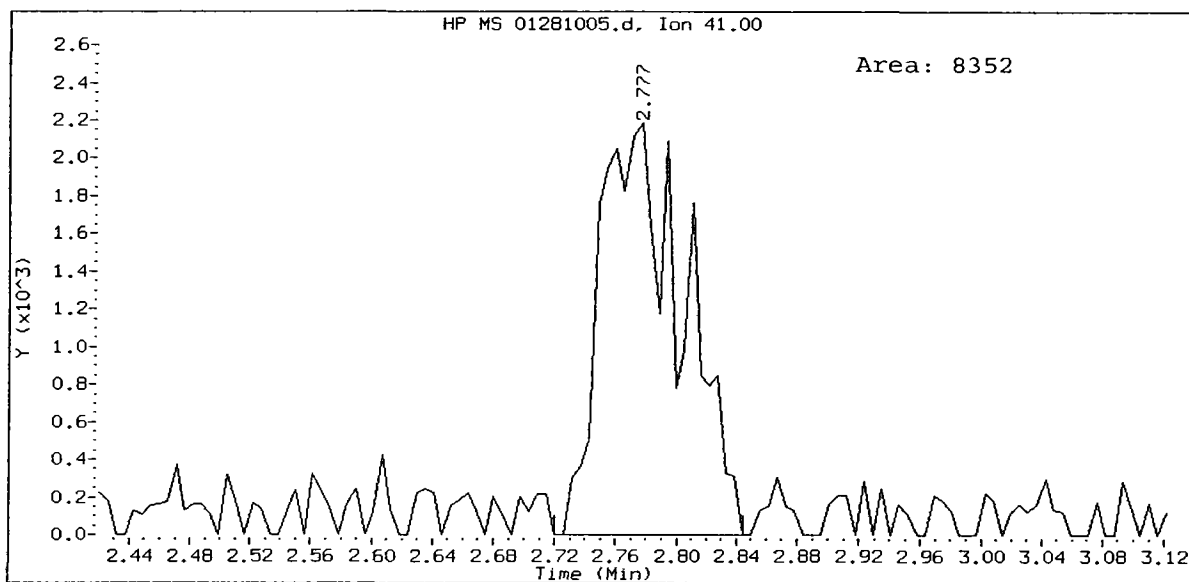
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Methyl tert butyl ether Amount: 0.20



0.2 0127, /chem1/nt5.i/28JAN10.b/01281005.d
Dichlorodifluoromethane Amount: 0.19



0.2 0127, /chem1/nt5.i/28JAN10.b/01281005.d
Hexane Amount: 0.25



PC
1/29/10

Data File: /chem1/nt5.i/28JAN10.b/01281006.d
Report Date: 29-Jan-2010 10:36

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/28JAN10.b/01281006.d
Lab Smp Id: 0.5 0127 Client Smp ID: 0.5 ppb
Inj Date : 28-JAN-2010 15:32
Operator : PC Inst ID: nt5.i
Smp Info : 0.5 0127,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
Meth Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vls bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000 Compound Sublist: voa+hex.sub
Integrator: HP RTE
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
1 Dichlorodifluoromethane	85		1.040	1.034	(0.219)	7599	0.50000	0.4580 (M)
172 Hexane	41		2.765	2.771	(0.583)	16797	0.50000	0.5147 (M)
2 Chloromethane	50		1.164	1.164	(0.246)	10801	0.50000	0.4597
3 Vinyl Chloride	62		1.226	1.226	(0.259)	13640	0.50000	0.4835 (M)
4 Bromomethane	94		1.453	1.453	(0.306)	8957	0.50000	0.4763 (M)
5 Chloroethane	64		1.543	1.543	(0.326)	9639	0.50000	0.5203 (M)
6 Trichlorofluoromethane	101		1.651	1.651	(0.348)	16824	0.50000	0.5061
12 Acrolein	56		2.324	2.318	(0.490)	3543	2.50000	2.816 (M)
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101		2.098	2.092	(0.443)	12430	0.50000	0.4912
14 Acetone	43		2.595	2.590	(0.548)	6218	2.50000	2.603 (M)
7 1,1-Dichloroethene	96		2.041	2.041	(0.431)	12906	0.50000	0.4897
11 Bromoethane	108		2.256	2.250	(0.476)	9506	0.50000	0.4978 (M)
10 Iodomethane	142		2.148	2.148	(0.453)	19215	0.50000	0.5007 (M)
13 Methylene Chloride	84		2.533	2.527	(0.534)	12494	0.50000	0.4781
18 Acrylonitrile	53		3.359	3.348	(0.709)	1744	0.50000	0.4559 (TQM)
16 Methyl tert butyl ether	73		2.810	2.805	(0.593)	25114	0.50000	0.4960 (M)

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
8 Carbon Disulfide	76	2.052	2.052	(0.433)	40897	0.50000	0.4805
15 Trans-1,2-Dichloroethene	96	2.680	2.680	(0.566)	13657	0.50000	0.4750
19 Vinyl Acetate	43	3.597	3.597	(0.759)	13370	0.50000	0.5327
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	20919	0.50000	0.4969
29 2-Butanone	72	4.406	4.405	(0.930)	3583	2.50000	2.363 (Q)
21 2,2-Dichloropropane	77	3.925	3.925	(0.828)	18181	0.50000	0.4914
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.808)	14160	0.50000	0.4938
32 Pentafluorobenzene	168	4.739	4.739	(1.000)	475919	10.0000	
23 Chloroform	83	4.106	4.106	(0.866)	19956	0.50000	0.4849
22 Bromochloromethane	128	4.010	4.004	(0.846)	5717	0.50000	0.4902
25 Dibromofluoromethane	111	4.264	4.270	(0.900)	166814	10.0000	9.921
26 1,1,1-Trichloroethane	97	4.270	4.264	(0.901)	18478	0.50000	0.4968
28 1,1-Dichloropropene	75	4.383	4.388	(0.845)	17643	0.50000	0.4991 (M)
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	13446	0.50000	0.4481
31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	149982	10.0000	9.989
33 1,2-Dichloroethane	62	4.796	4.790	(0.925)	11836	0.50000	0.5158
30 Benzene	78	4.609	4.609	(0.889)	54201	0.50000	0.5083
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	716389	10.0000	
34 Trichloroethene	130	5.135	5.135	(0.990)	14516	0.50000	0.4877 (Q)
38 1,2-Dichloropropane	63	5.588	5.576	(1.077)	11867	0.50000	0.5085 (M)
39 Bromodichloromethane	83	5.656	5.650	(1.091)	13583	0.50000	0.4983
37 Dibromomethane	93	5.486	5.486	(1.058)	4842	0.50000	0.4690
40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	4159	0.50000	0.4943 (QH)
45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	9939	2.50000	2.376
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	18786	0.50000	0.5039
42 d8-Toluene	98	6.352	6.346	(1.225)	775358	10.0000	9.950
43 Toluene	92	6.391	6.391	(1.232)	35153	0.50000	0.4940
46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	14169	0.50000	0.4706
51 2-Hexanone	43	7.455	7.455	(0.975)	15750	2.50000	2.622 (M)
47 1,1,2-Trichloroethane	97	6.878	6.883	(1.326)	7832	0.50000	0.4922
49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	13716	0.50000	0.4820
44 Tetrachloroethene	166	6.702	6.708	(0.876)	15872	0.50000	0.5136
48 Chlorodibromomethane	129	7.025	7.019	(0.919)	8746	0.50000	0.4619
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	7295	0.50000	0.4703
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	627615	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.002)	35207	0.50000	0.4742
54 Ethyl Benzene	91	7.709	7.709	(1.008)	67673	0.50000	0.4921 (M)
55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	11578	0.50000	0.4688
56 m,p-xylene	106	7.839	7.839	(1.025)	51448	1.00000	0.9864
57 o-Xylene	106	8.201	8.201	(1.072)	24430	0.50000	0.4843
58 Styrene	104	8.247	8.252	(1.078)	39613	0.50000	0.4812
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	63108	0.50000	0.5280
59 Bromoform	173	8.252	8.247	(0.850)	4191	0.50000	0.4709
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	7619	0.50000	0.5108
61 4-Bromofluorobenzene	95	8.710	8.716	(1.139)	271843	10.0000	9.625
66 1,2,3-Trichloropropane	110	9.022	9.021	(0.929)	2373	0.50000	0.5633 (QM)
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	2001	0.50000	0.5093 (QM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	70203	0.50000	0.5231
62 Bromobenzene	156	8.790	8.790	(0.905)	14380	0.50000	0.5022
67 1,3,5-Trimethyl Benzene	105	9.033	9.038	(0.930)	50072	0.50000	0.5049
65 2-Chloro Toluene	91	8.965	8.965	(0.923)	40636	0.50000	0.4983
69 4-Chloro Toluene	91	9.112	9.118	(0.938)	42327	0.50000	0.5112
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	43465	0.50000	0.5077
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	50795	0.50000	0.5075
72 S-Butyl Benzene	105	9.469	9.468	(0.975)	65278	0.50000	0.5348
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	51361	0.50000	0.4990
74 1,3-Dichlorobenzene	146	9.644	9.638	(0.993)	28184	0.50000	0.4917
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	312119	10.0000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	30647	0.50000	0.5252(Q)
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	45314	0.50000	0.5100
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	276345	10.0000	10.027(Q)
79 1,2-Dichlorobenzene	146	10.102	10.096	(1.040)	25997	0.50000	0.5169
81 1,2-Dibromo 3-Chloropropane	75	10.854	10.843	(1.118)	1546	0.50000	0.5993(Q)
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	19871	0.50000	0.5863
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	6904	0.50000	0.5507
84 Naphthalene	128	11.799	11.799	(1.215)	31540	0.50000	0.5262
85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	15002	0.50000	0.5542

QC Flag Legend

- Γ - Target compound detected outside RT window.
- Q - Qualifier signal failed the ratio test.
- 4 - Compound response manually integrated.
- i - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 01281006.d
 Lab Smp Id: 0.5 0127
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Misc Info: 10-

Calibration Date: 28-JAN-2010
 Calibration Time: 16:48
 Client Smp ID: 0.5 ppb
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

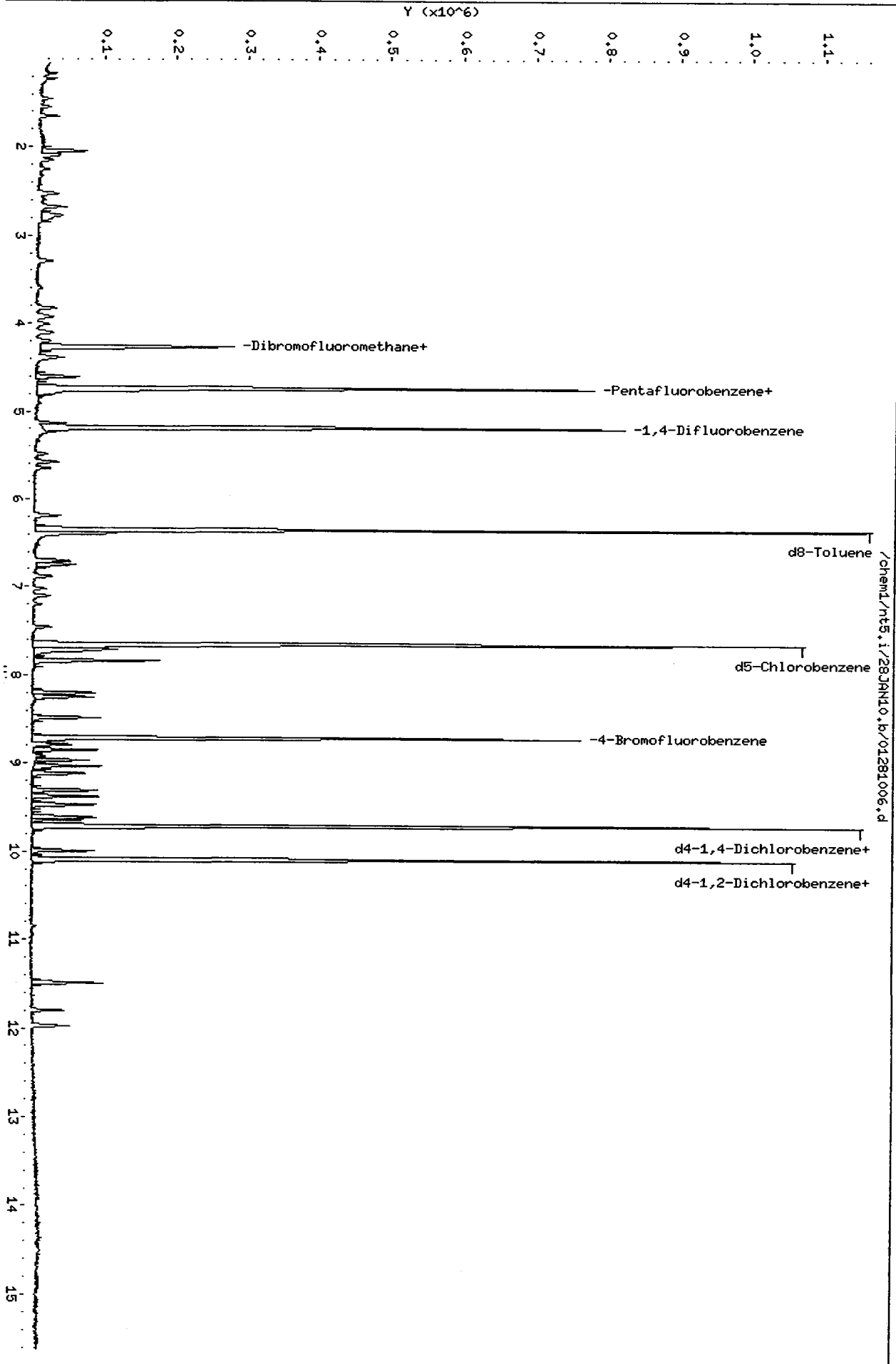
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		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	475919	0.93
35 1,4-Difluorobenze	723083	361542	1446166	716389	-0.93
52 d5-Chlorobenzene	624979	312490	1249958	627615	0.42
75 d4-1,4-Dichlorobe	328841	164420	657682	312119	-5.09

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

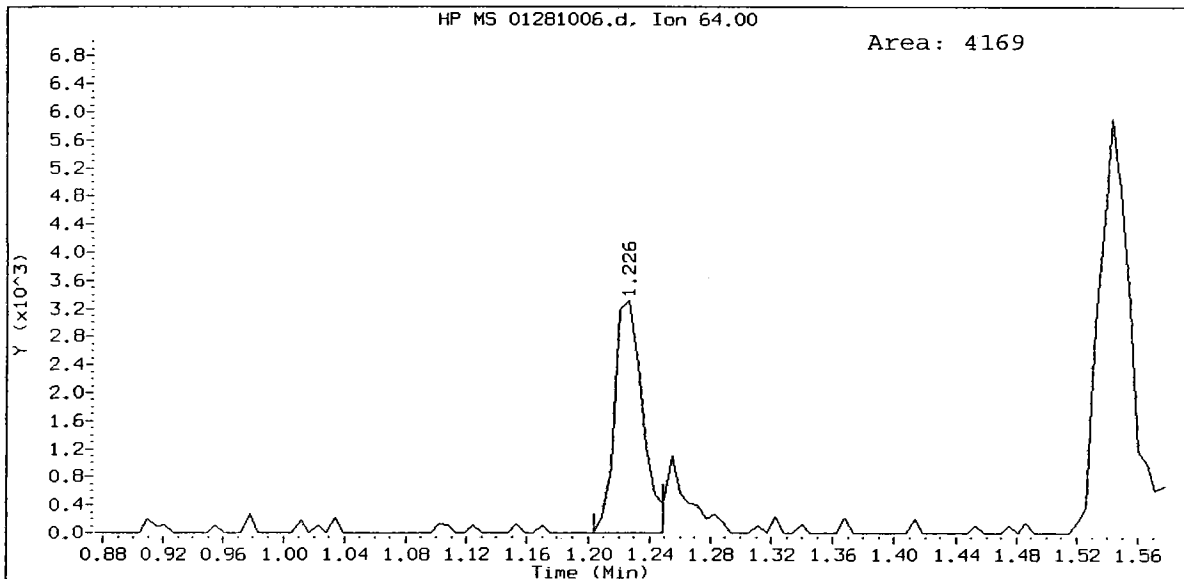
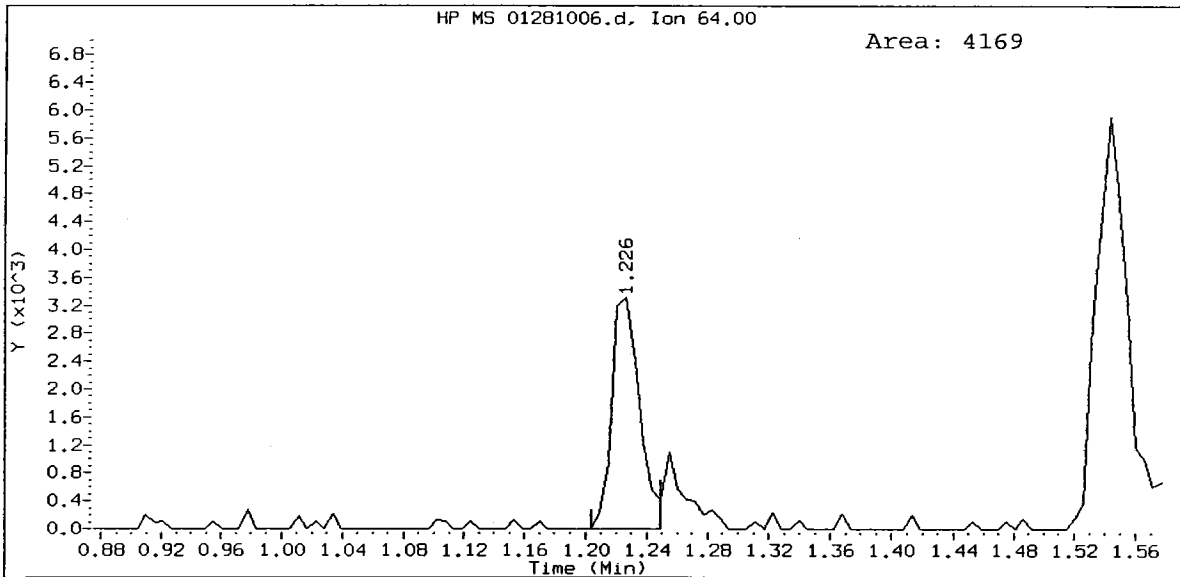
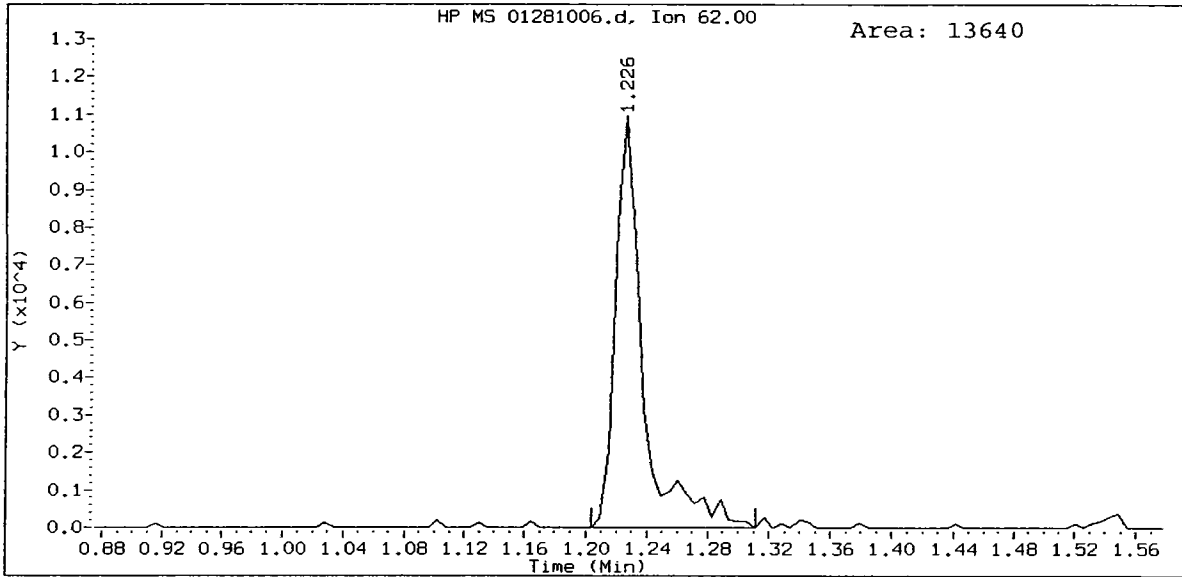
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/28JAN10.b/01281006.d
Date: 28-JAN-2010 15:32
Client ID: 0.5 ppb
Sample Info: 0.5 0127,10,10,0,
Column phase: RTXVMS

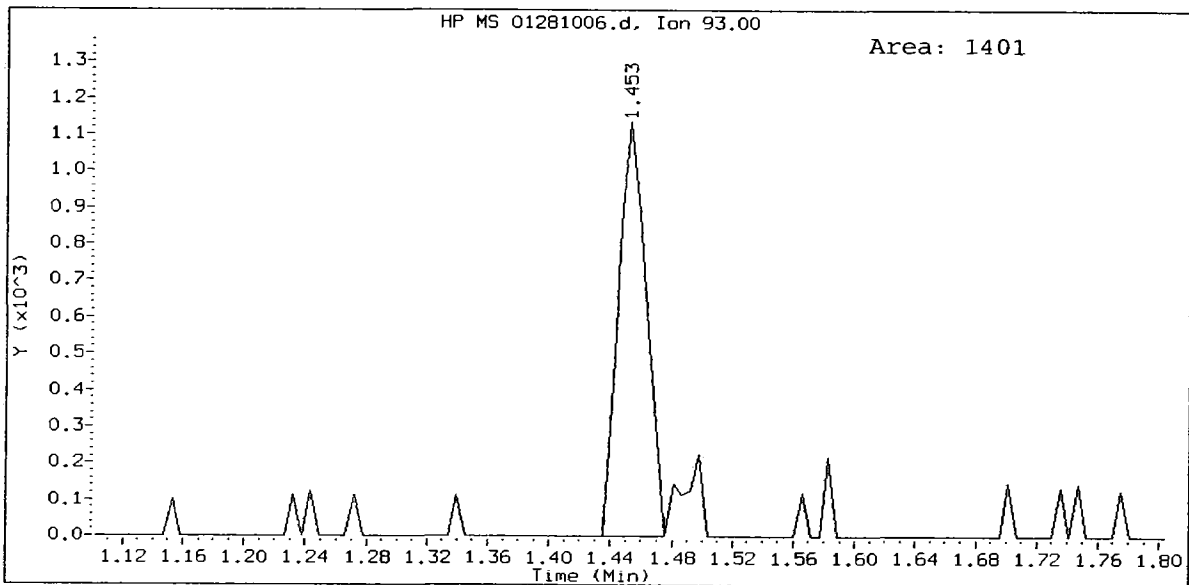
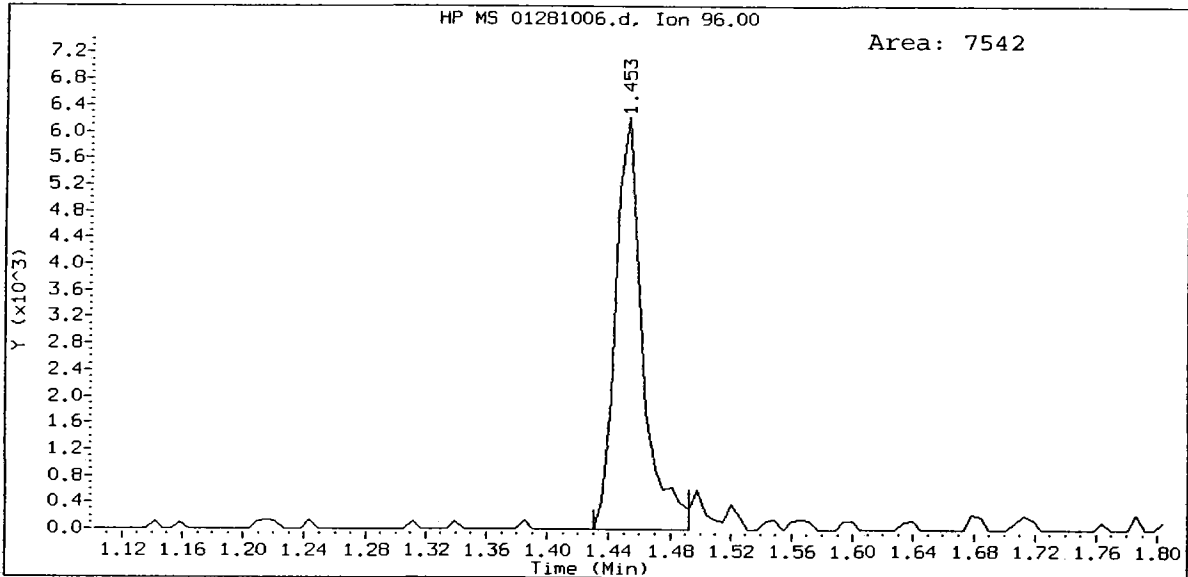
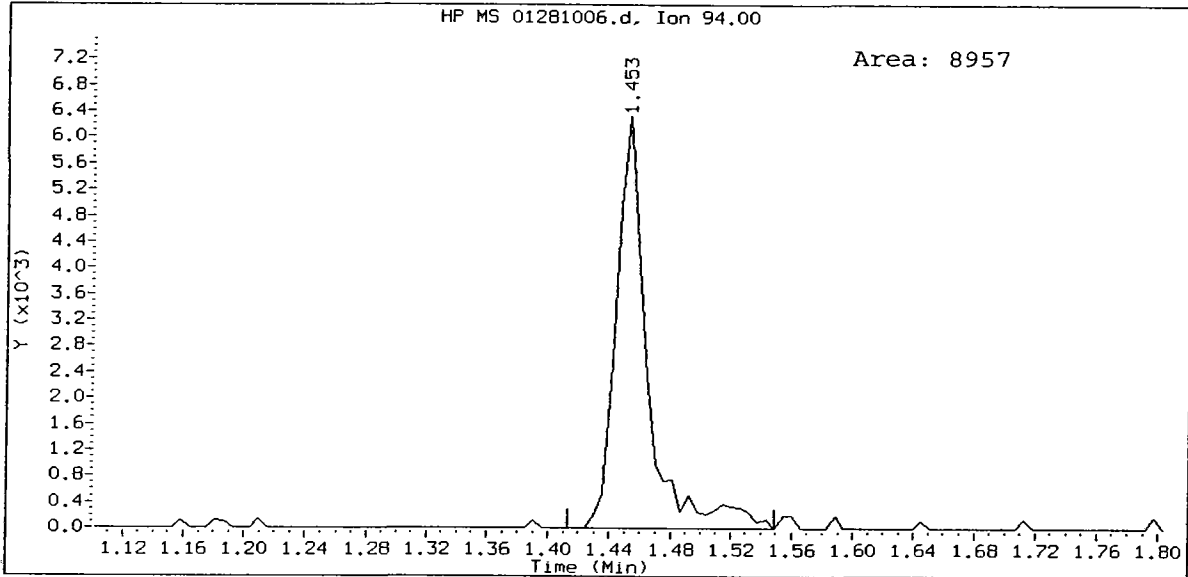
Instrument: nt5.i
Operator: PC
Column diameter: 0.18



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Vinyl Chloride Amount: 0.48

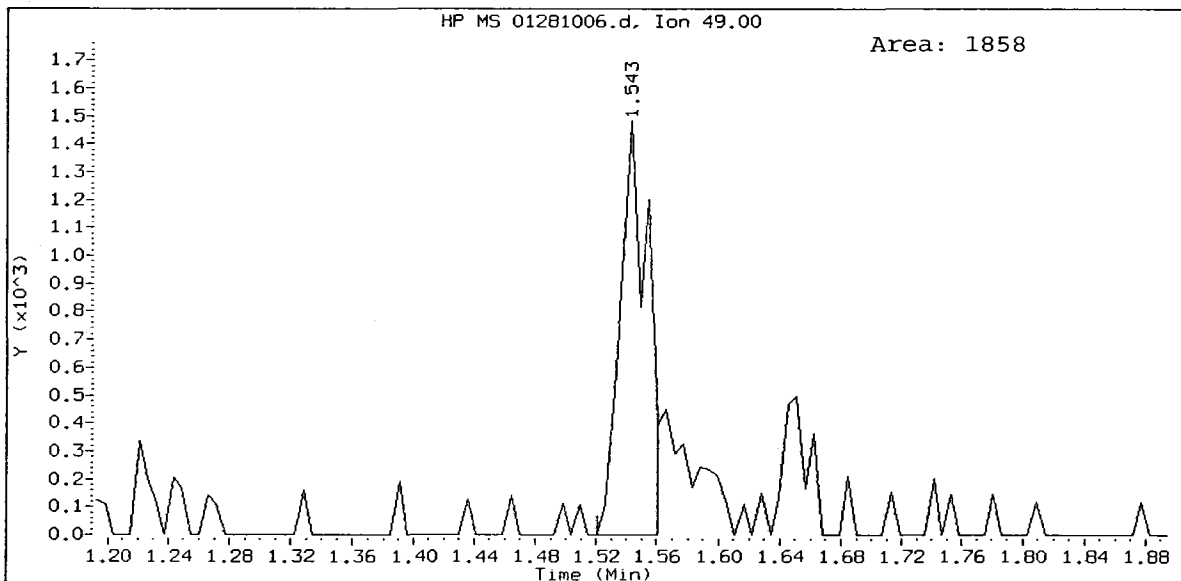
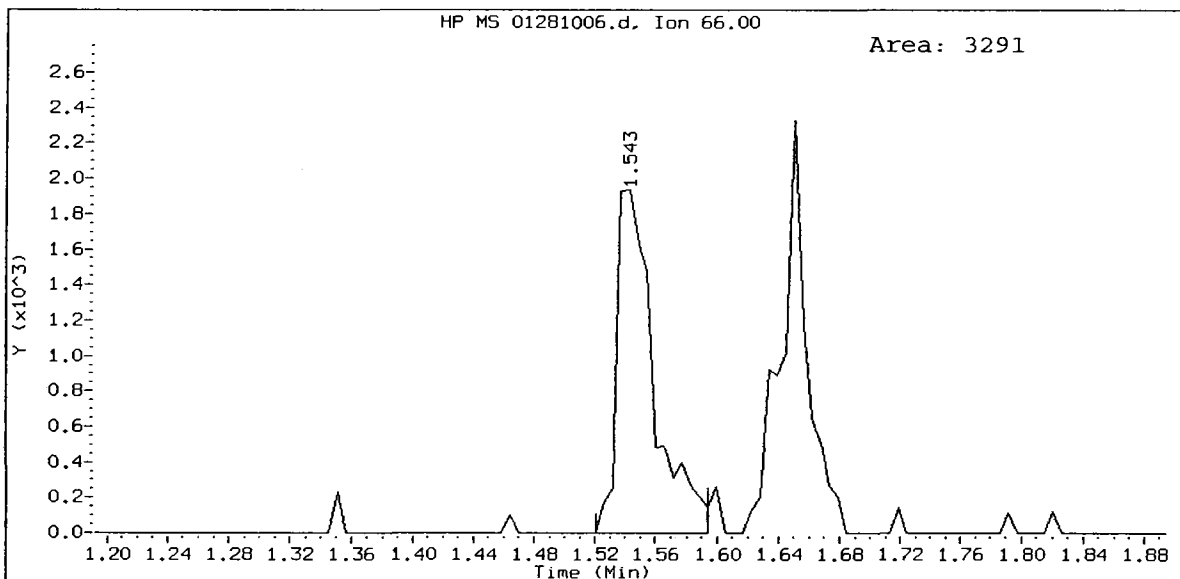
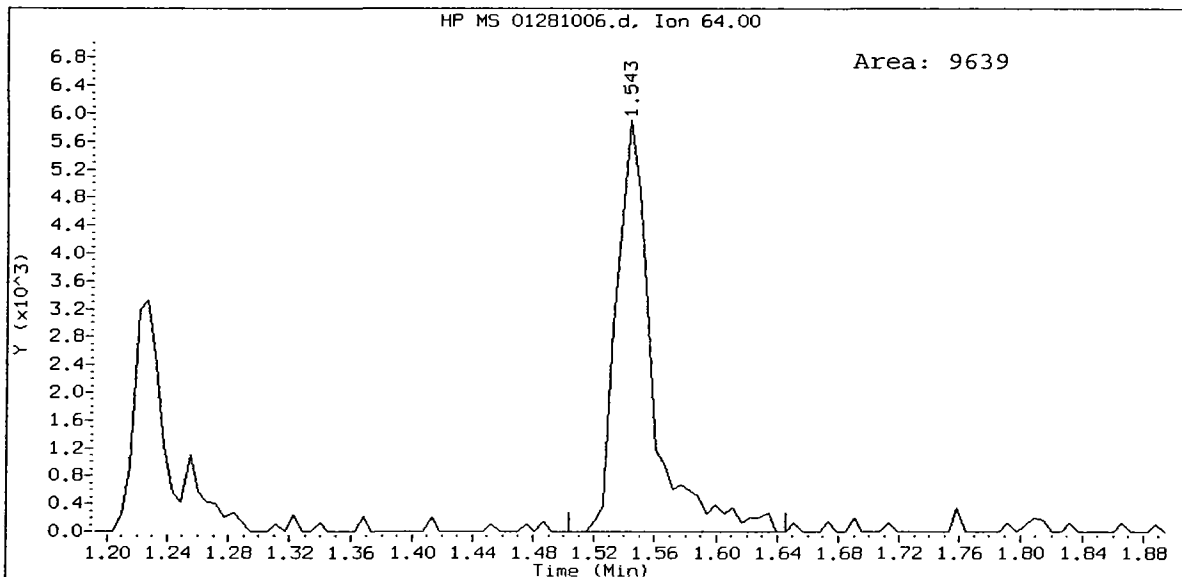


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Bromomethane Amount: 0.48

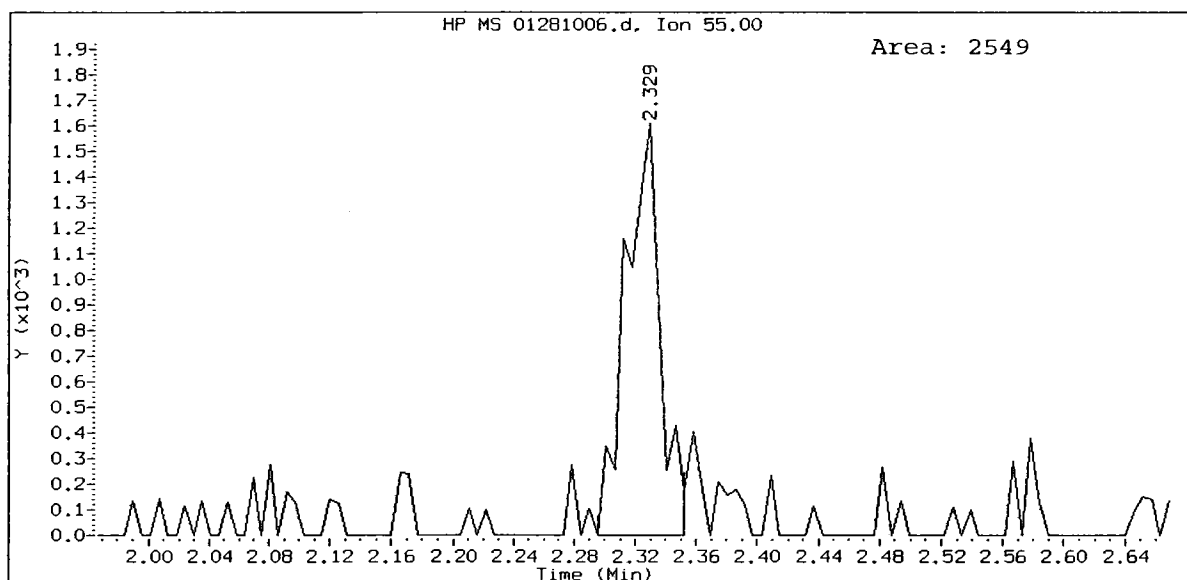
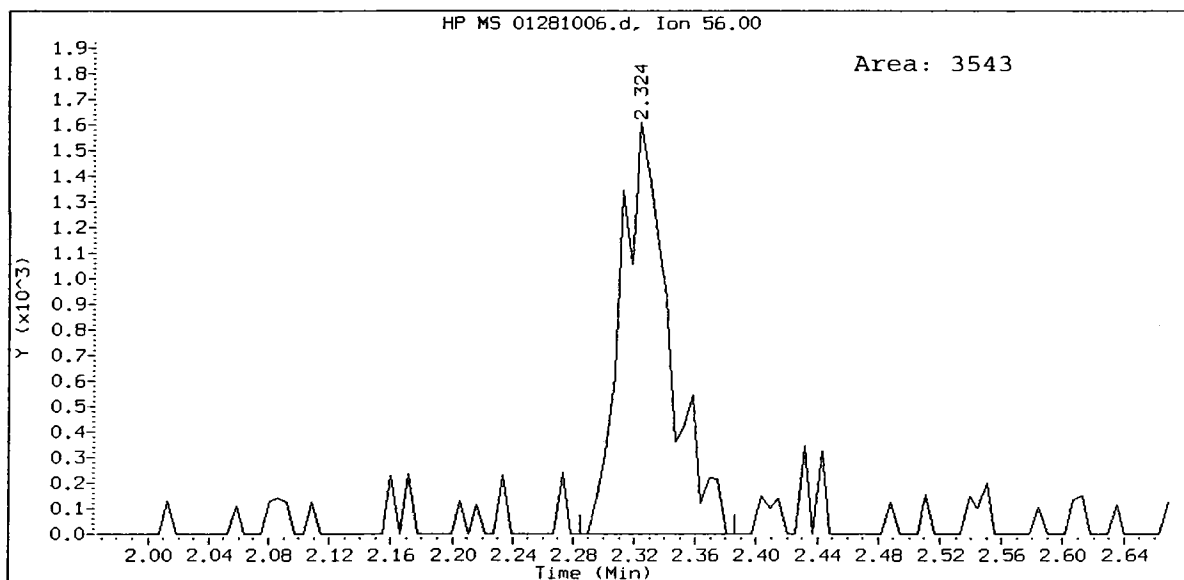


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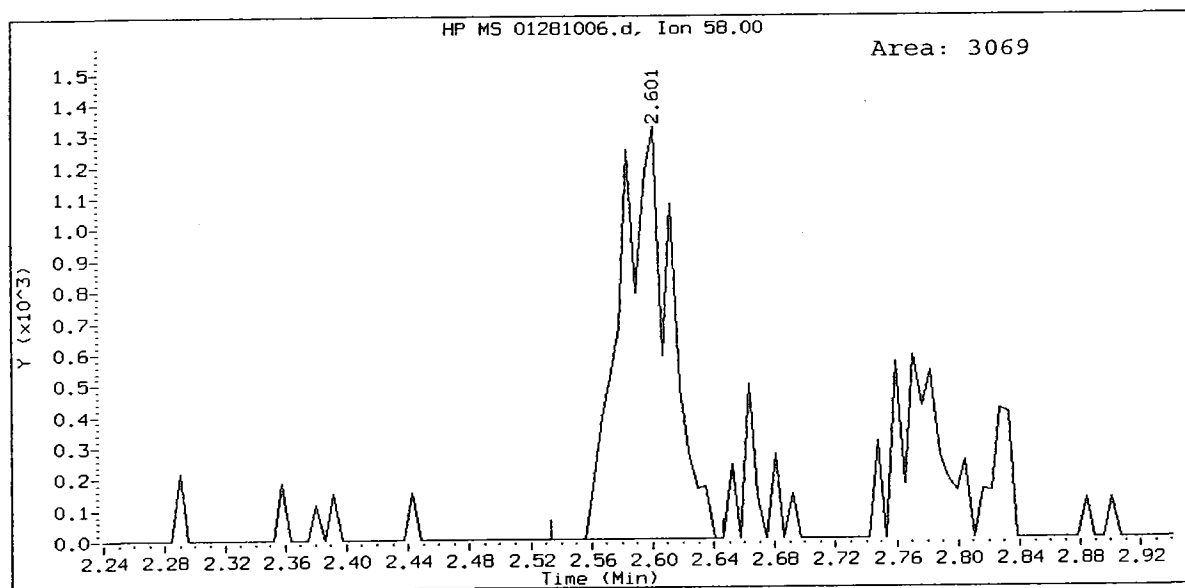
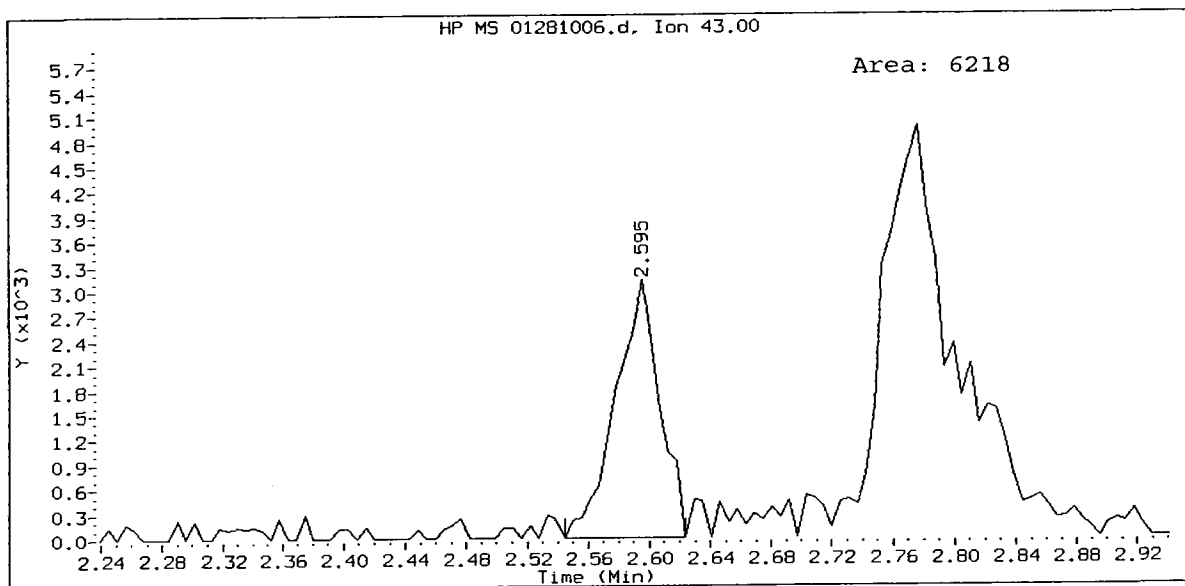
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Chloroethane Amount: 0.52



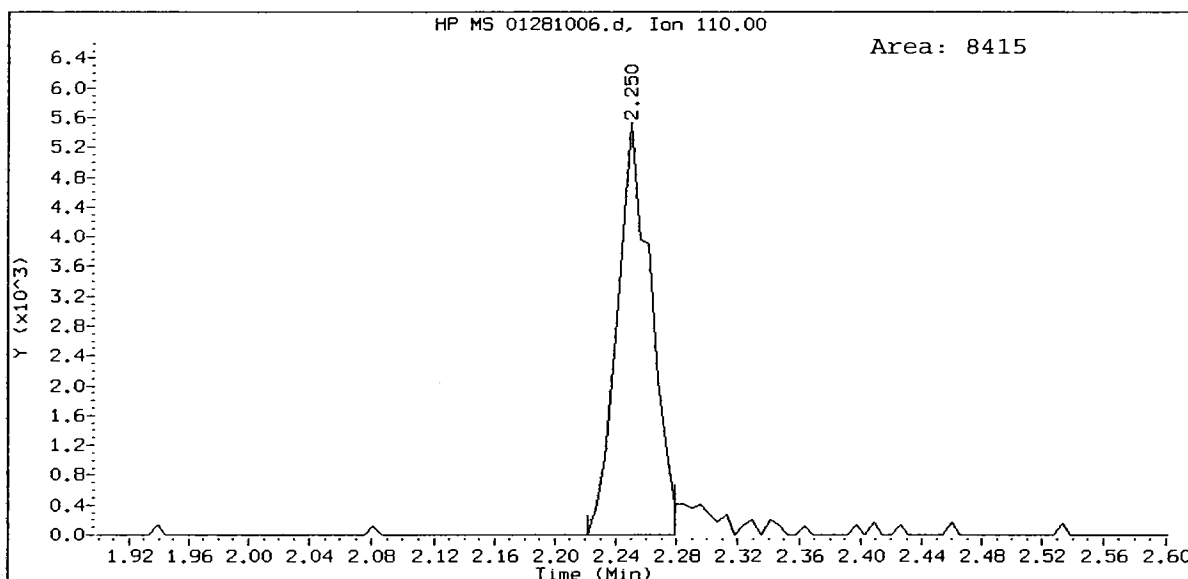
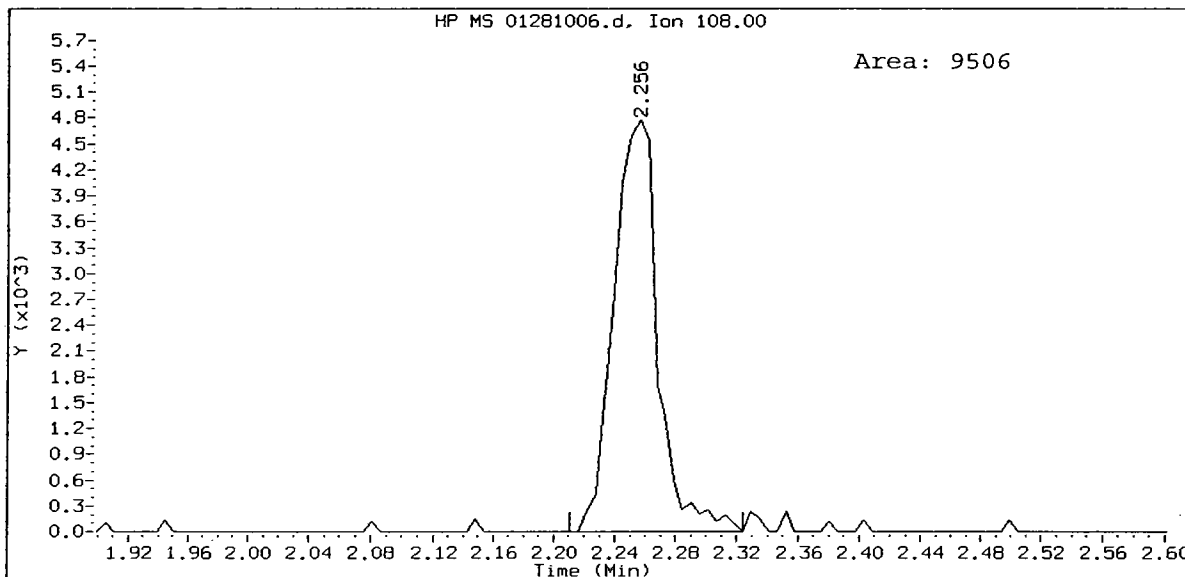
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Acrolein Amount: 2.82



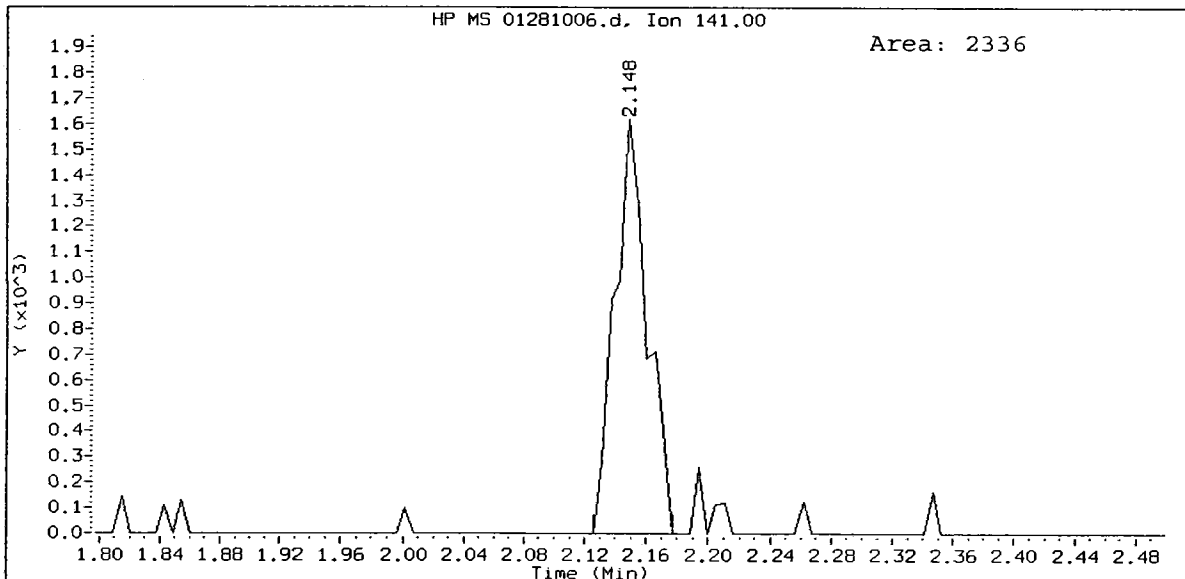
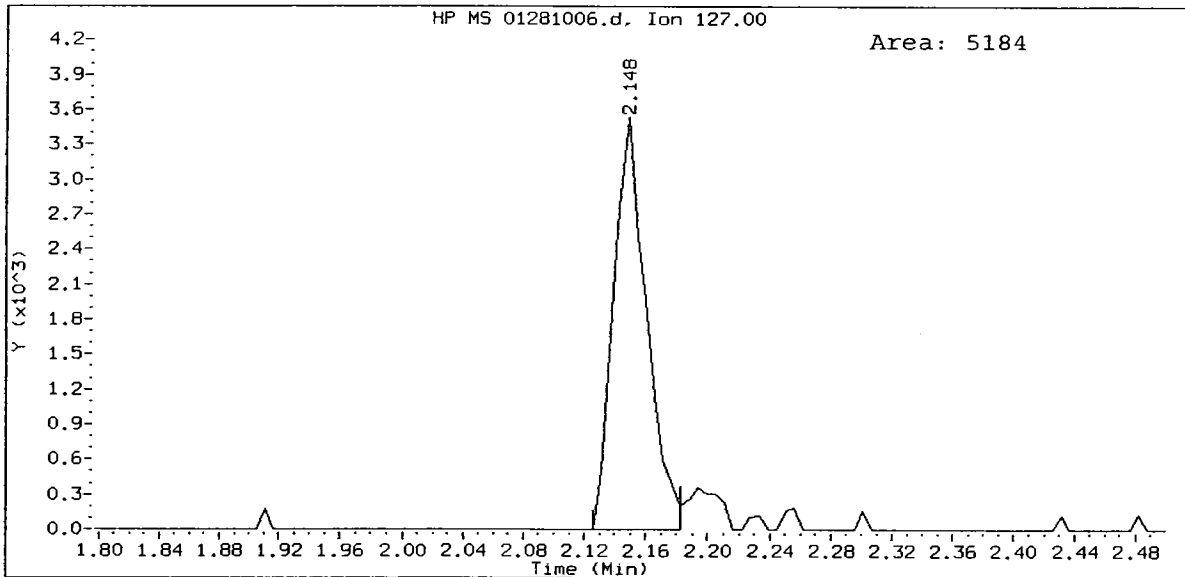
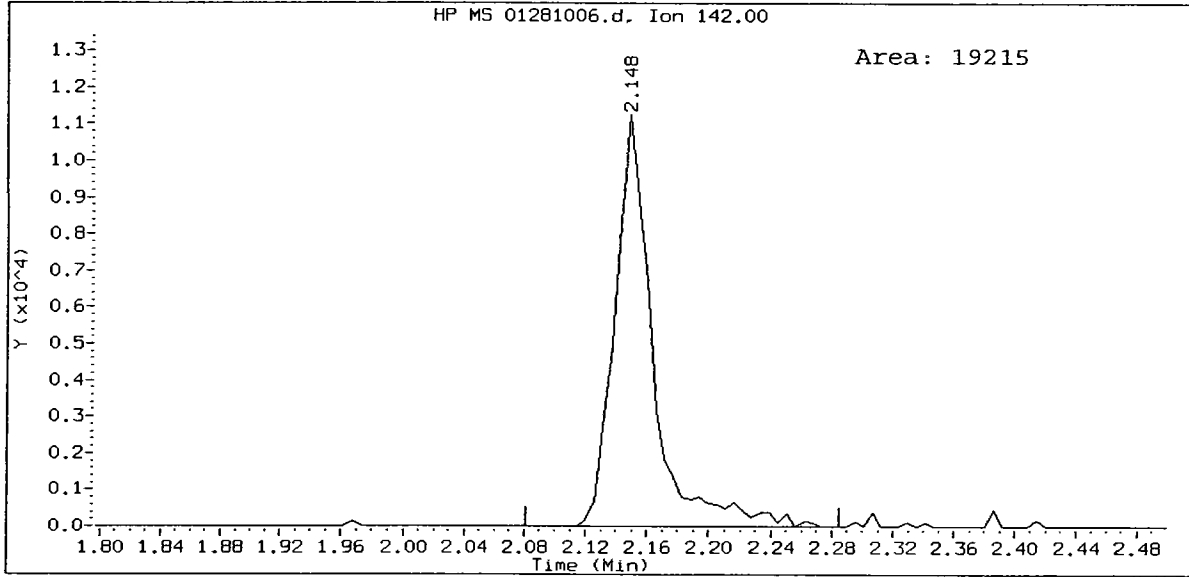
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Acetone Amount: 2.60



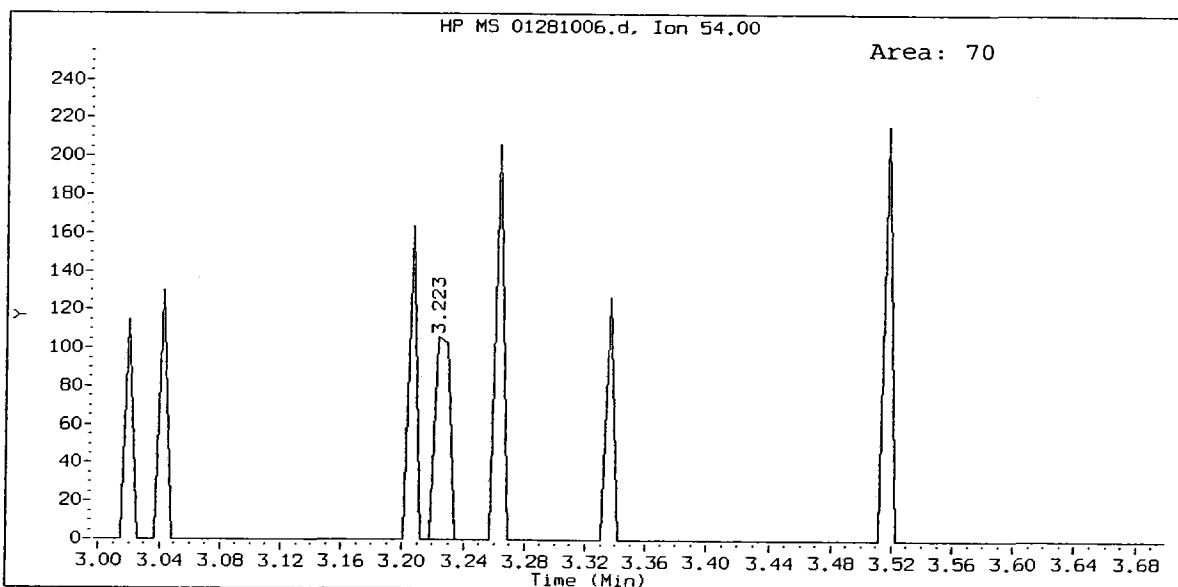
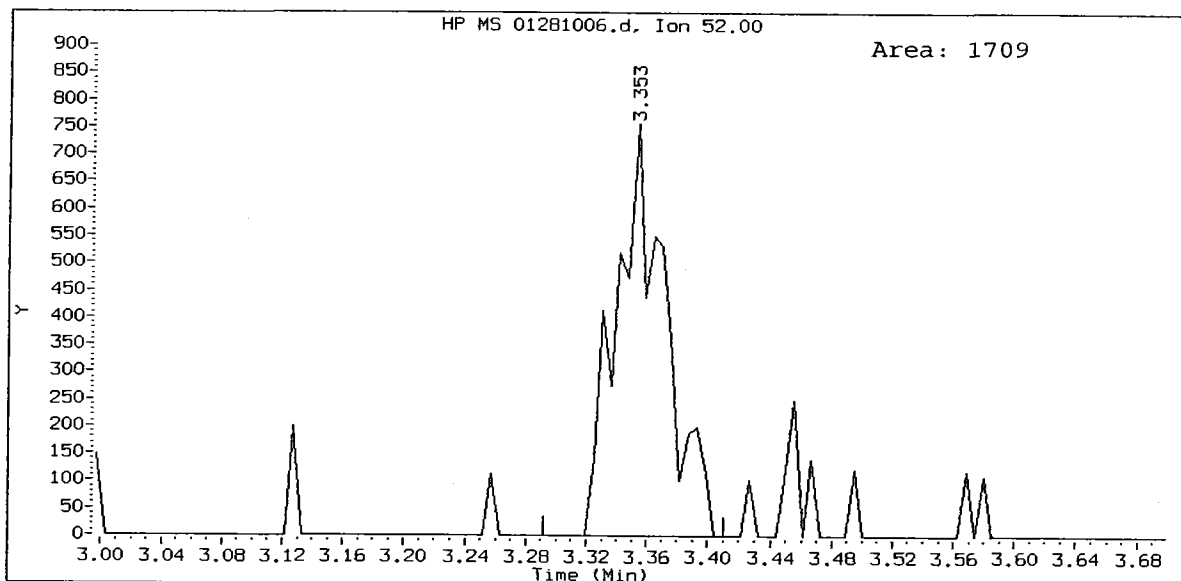
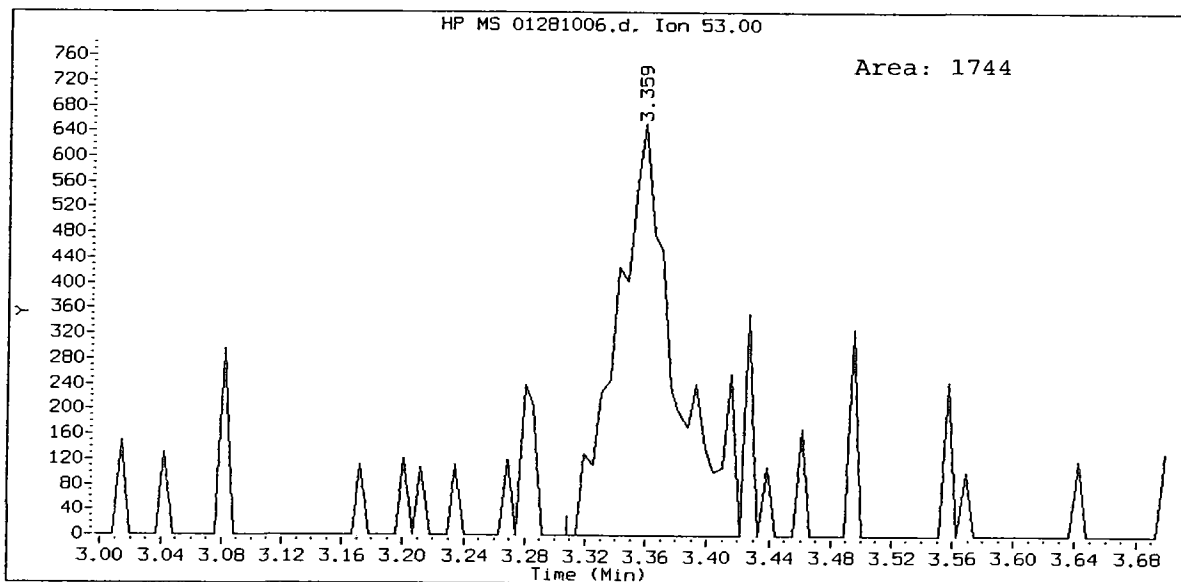
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Bromoethane Amount: 0.50



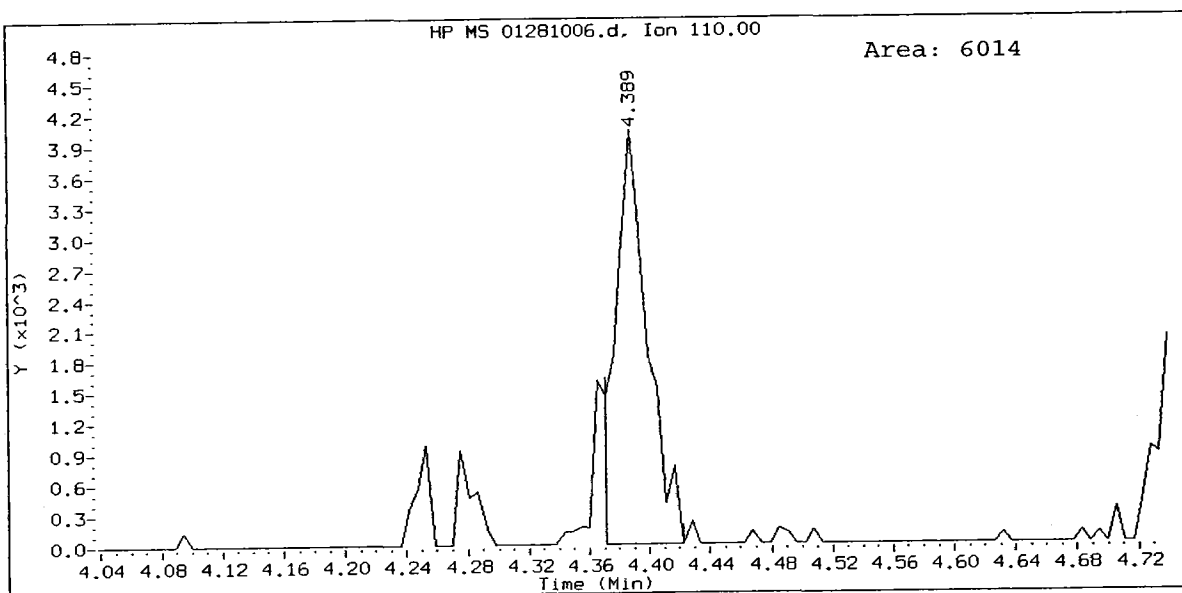
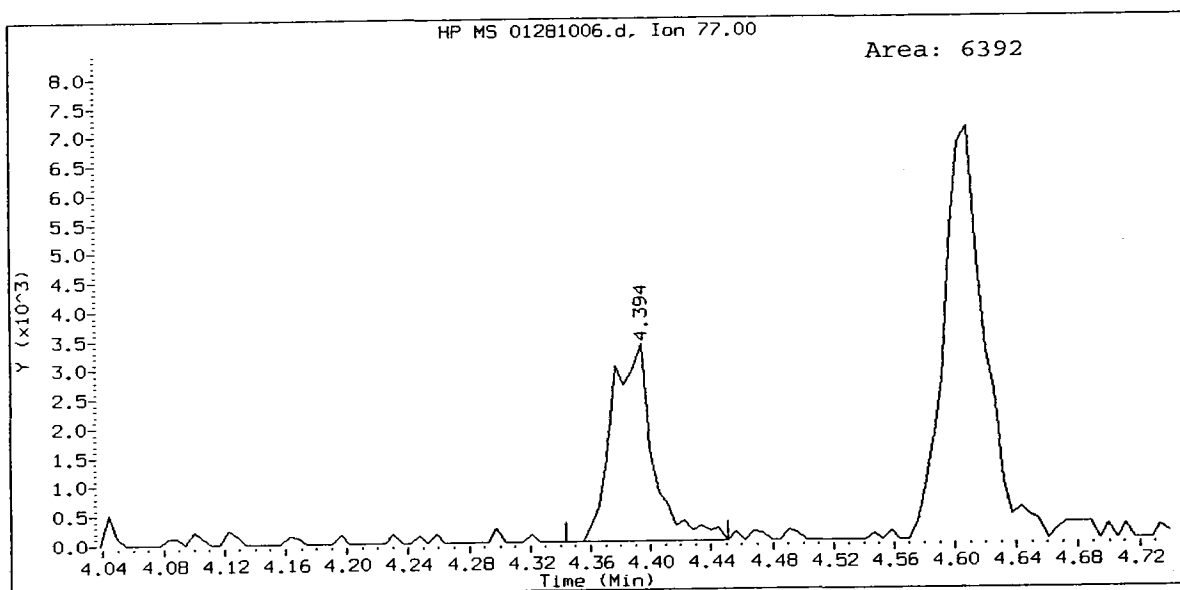
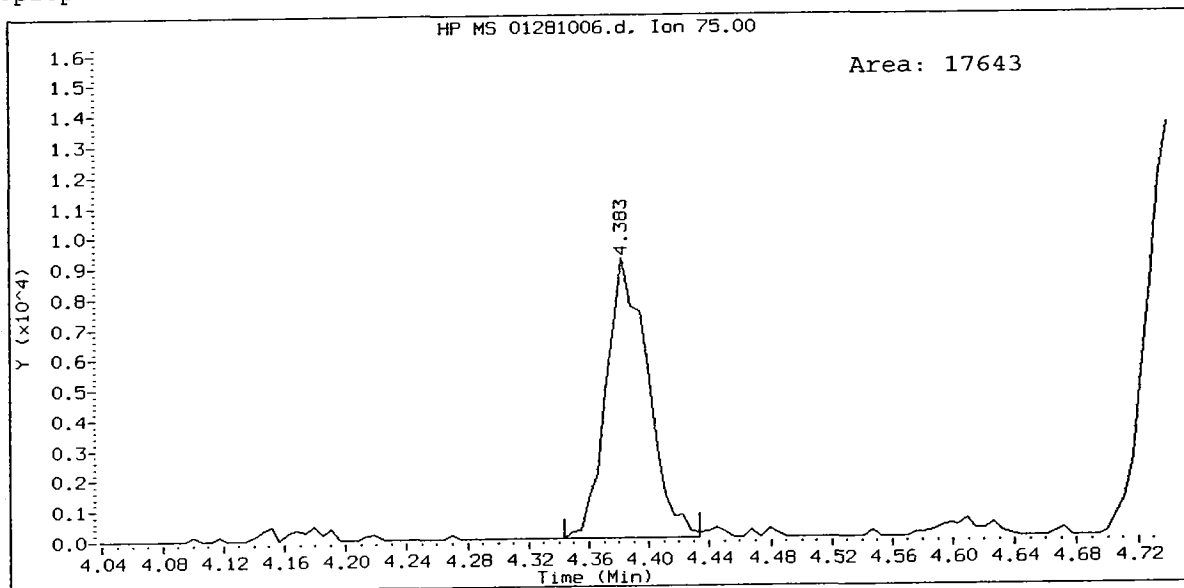
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Iodomethane Amount: 0.50



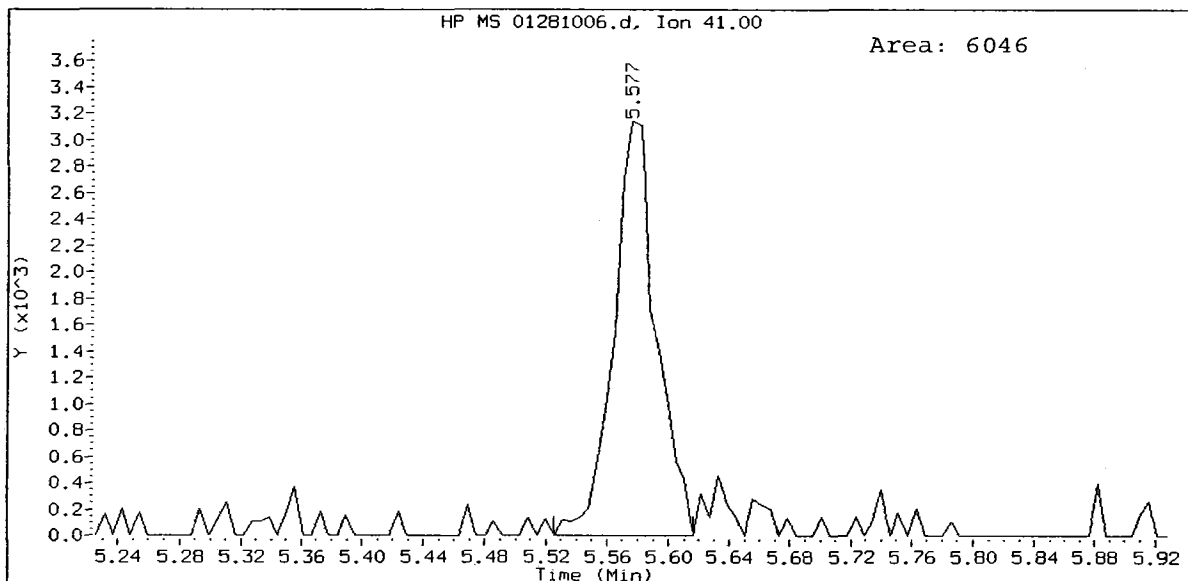
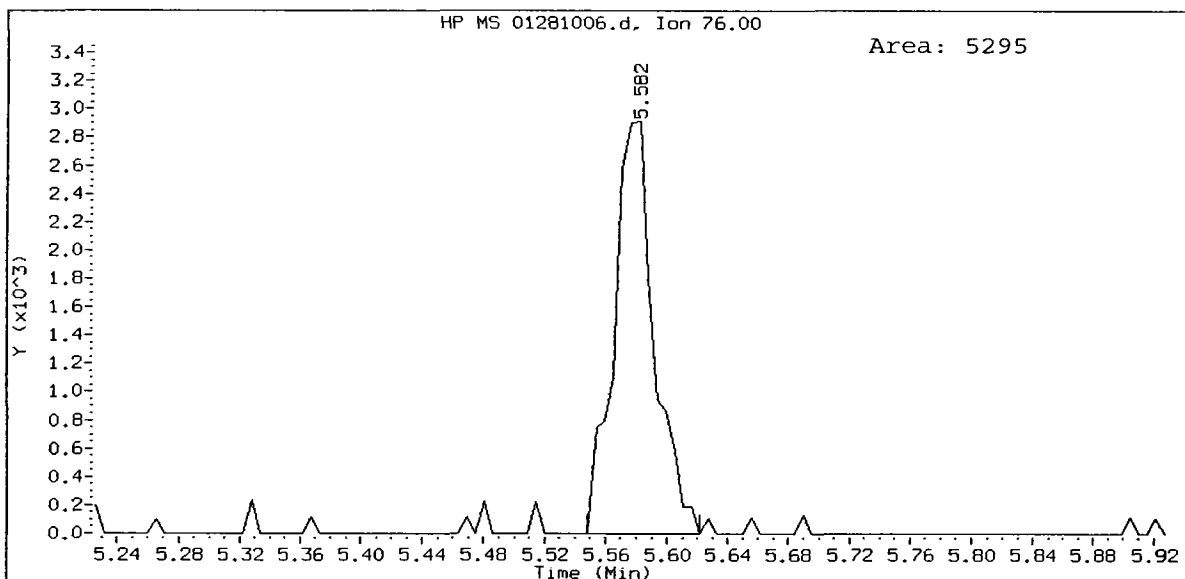
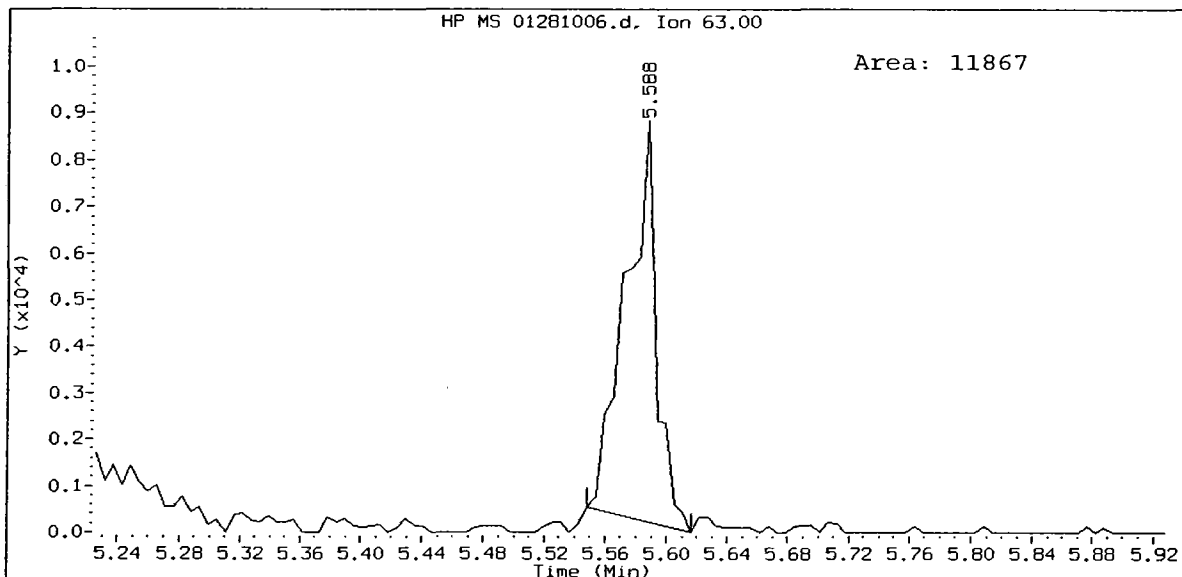
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Acrylonitrile Amount: 0.46



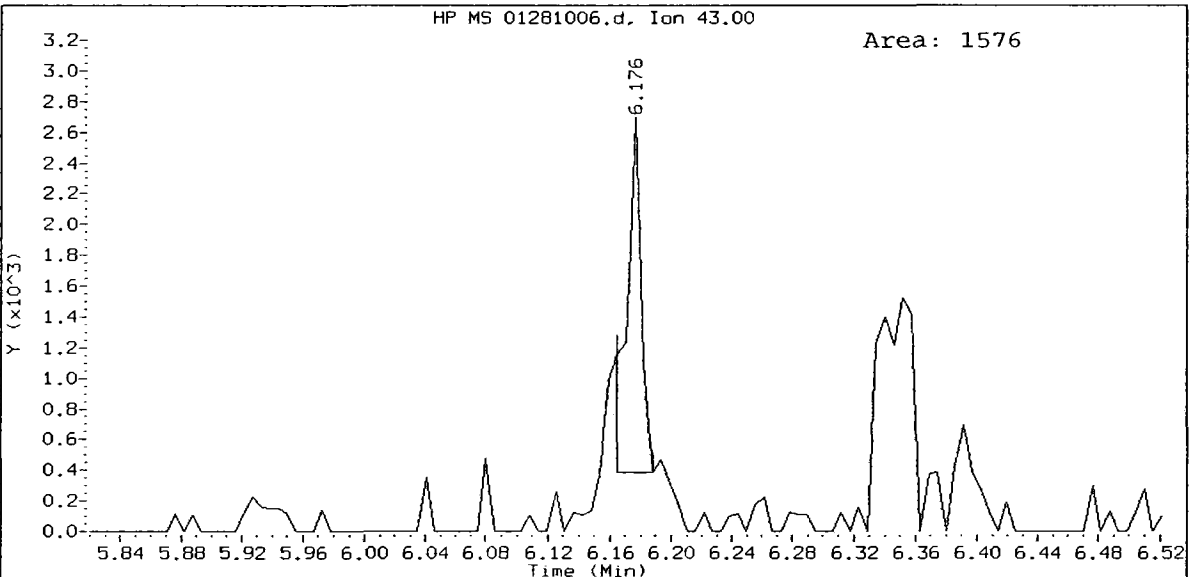
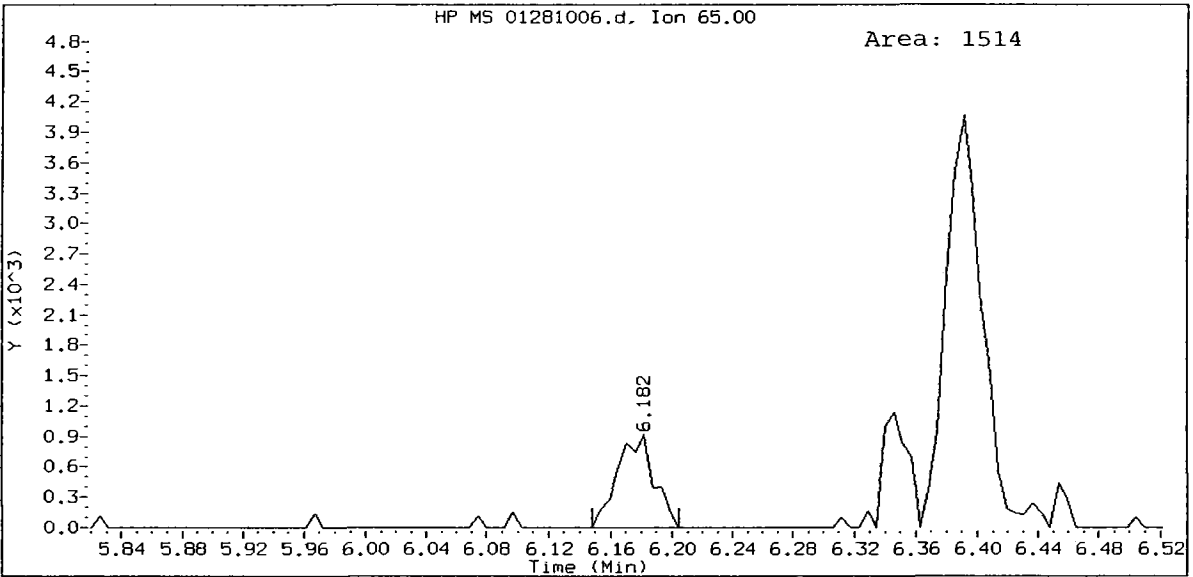
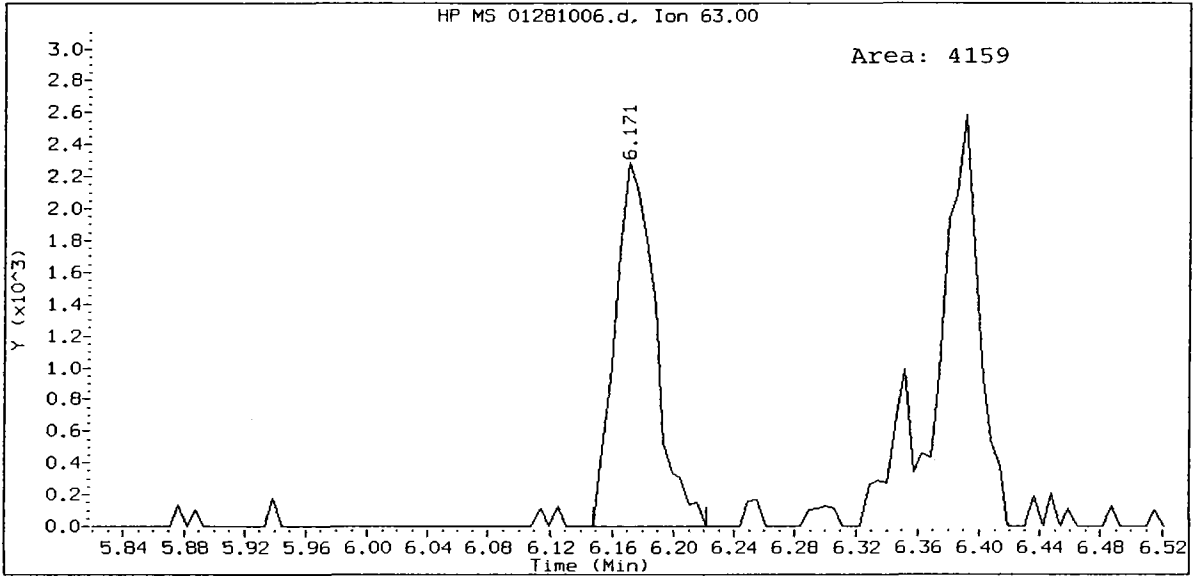
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1,1-Dichloropropene Amount: 0.50



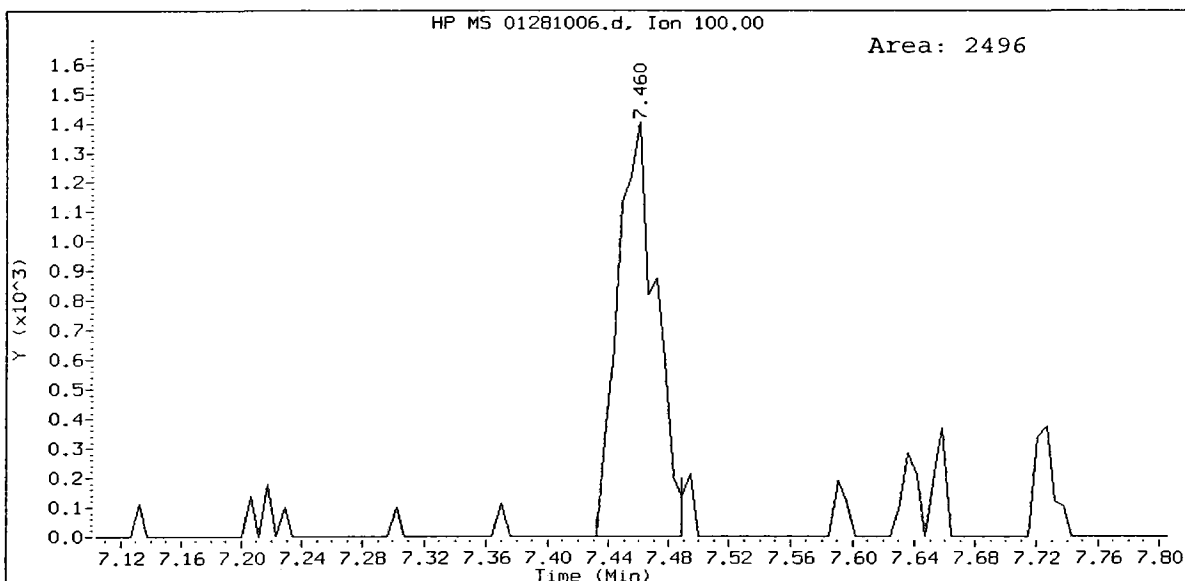
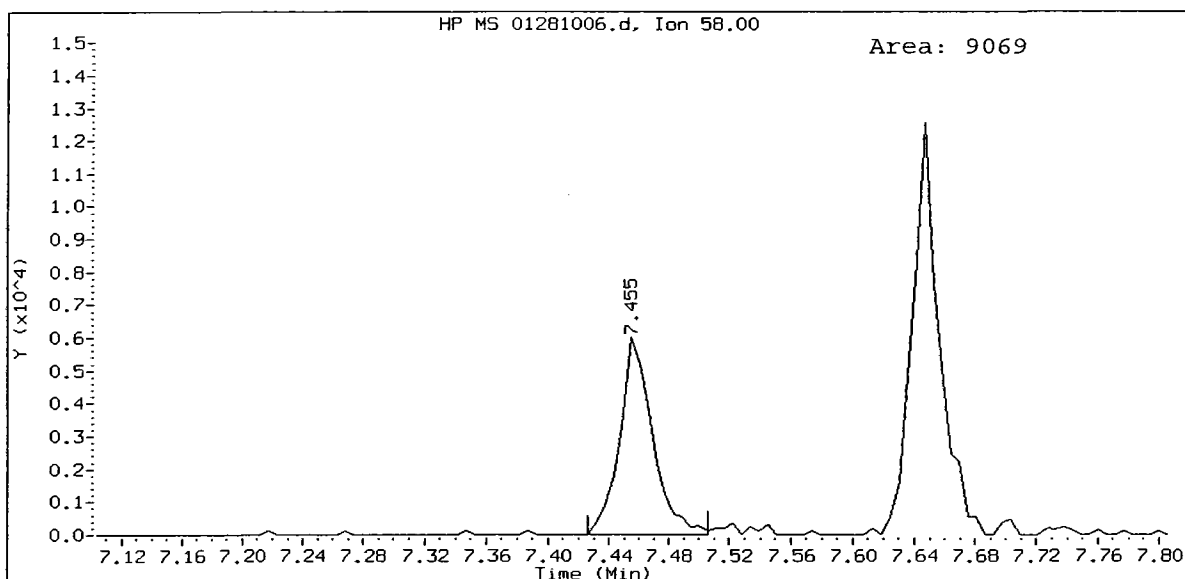
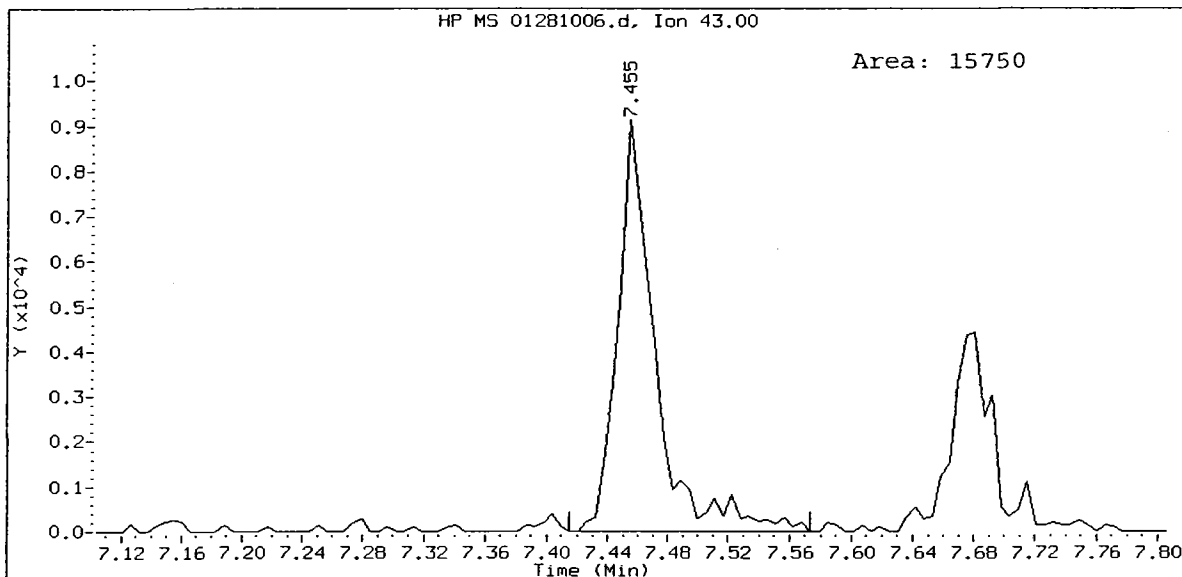
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1,2-Dichloropropane Amount: 0.51



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2-Chloroethyl Vinyl Ether Amount: 0.49

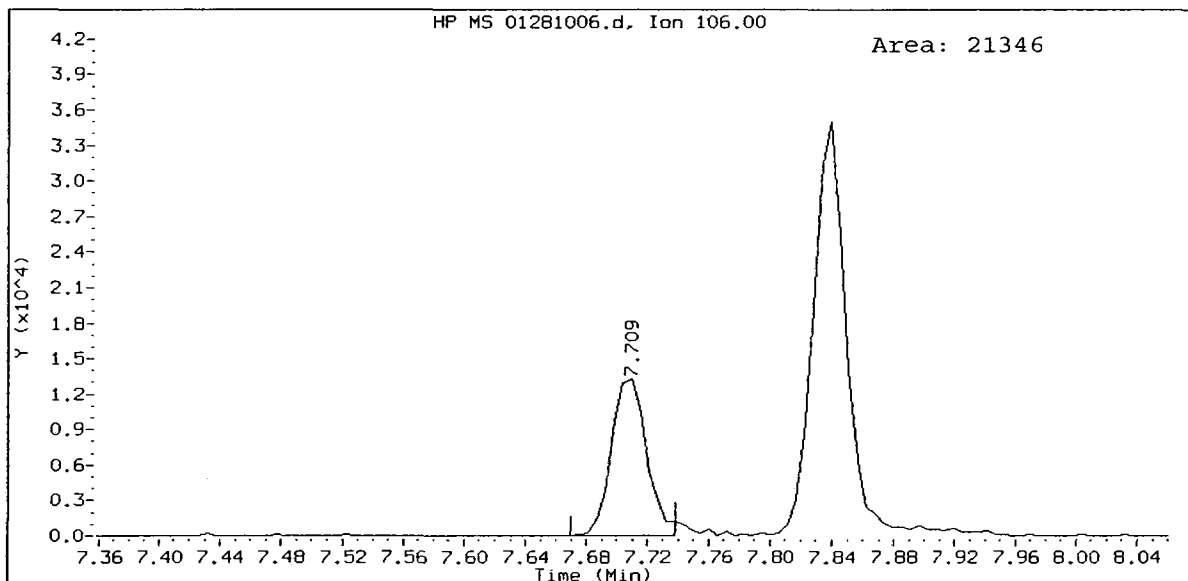
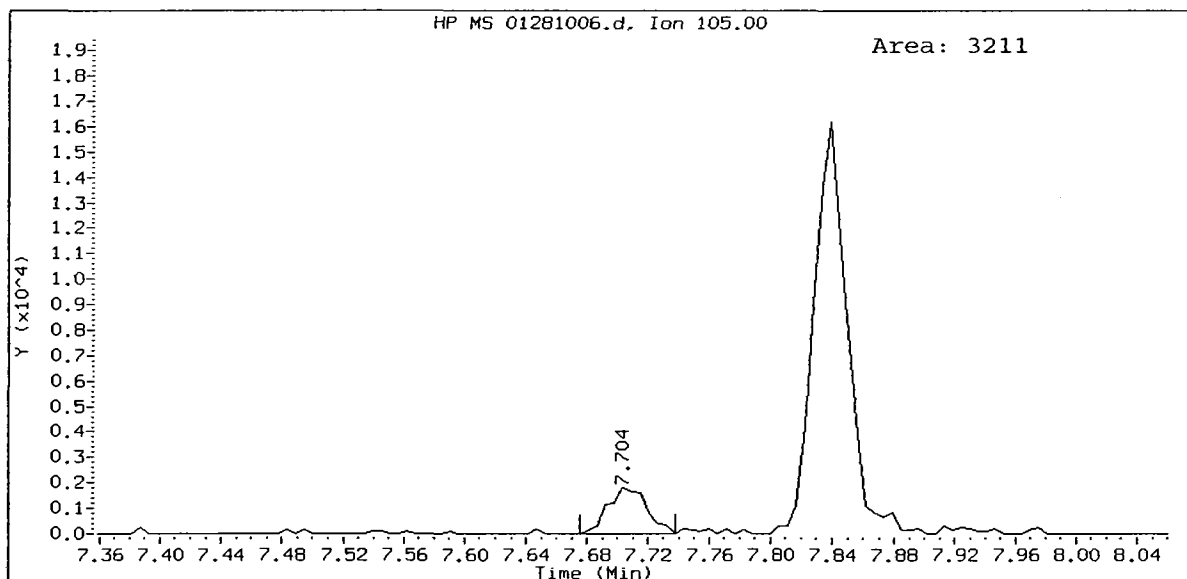
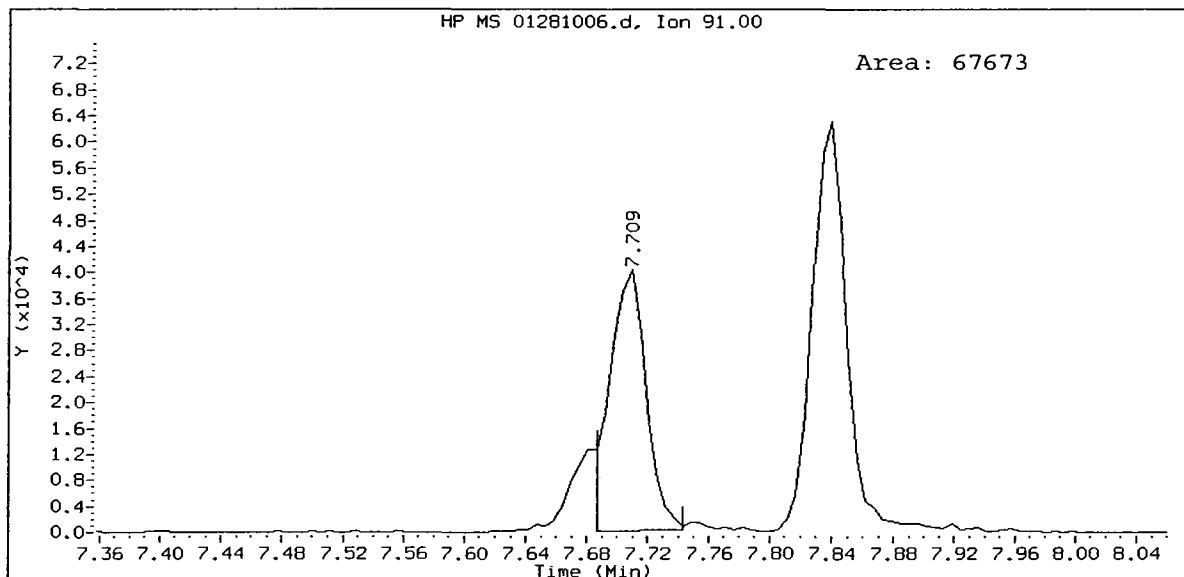


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2-Hexanone Amount: 2.62

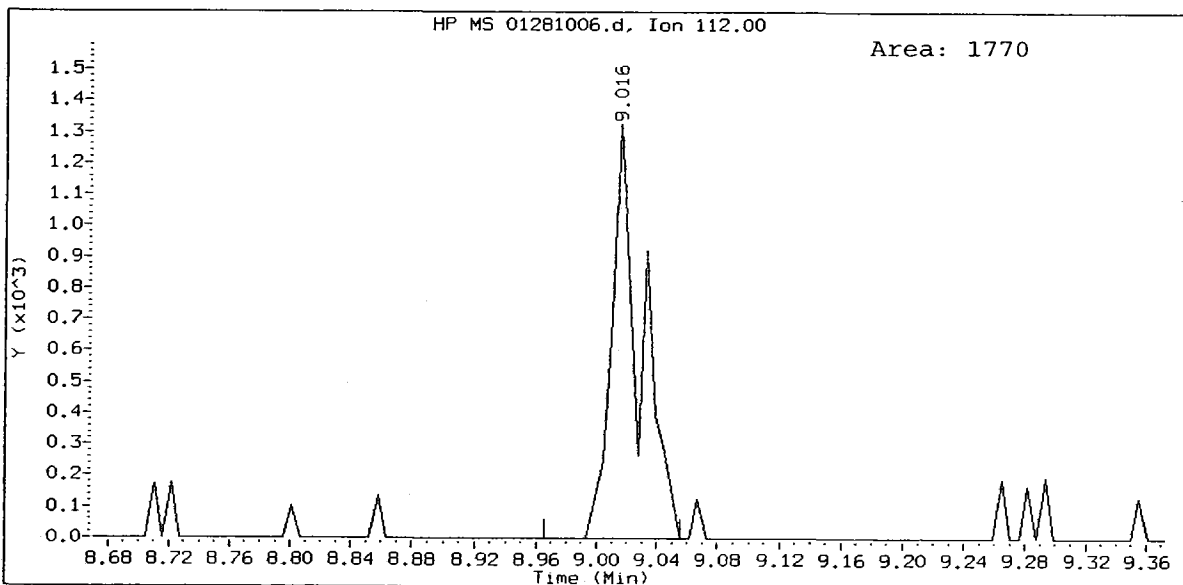
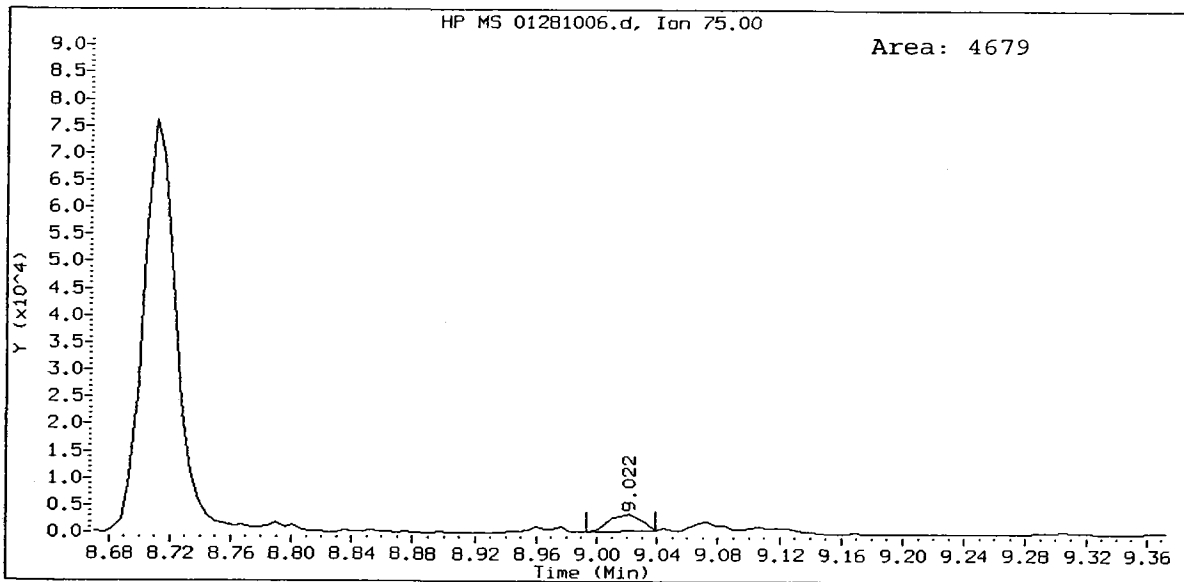
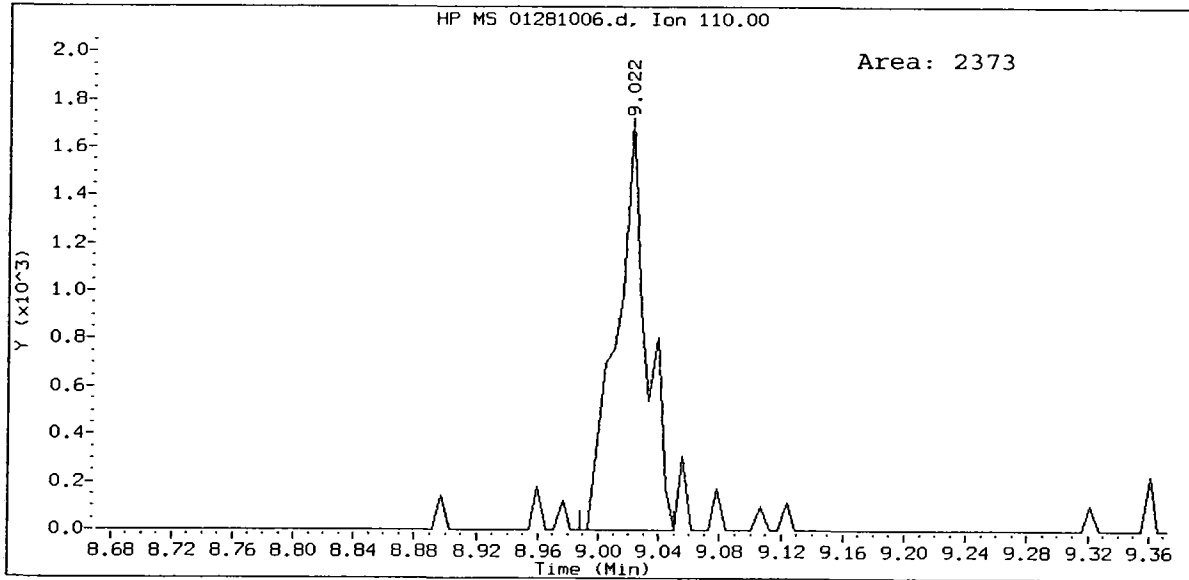


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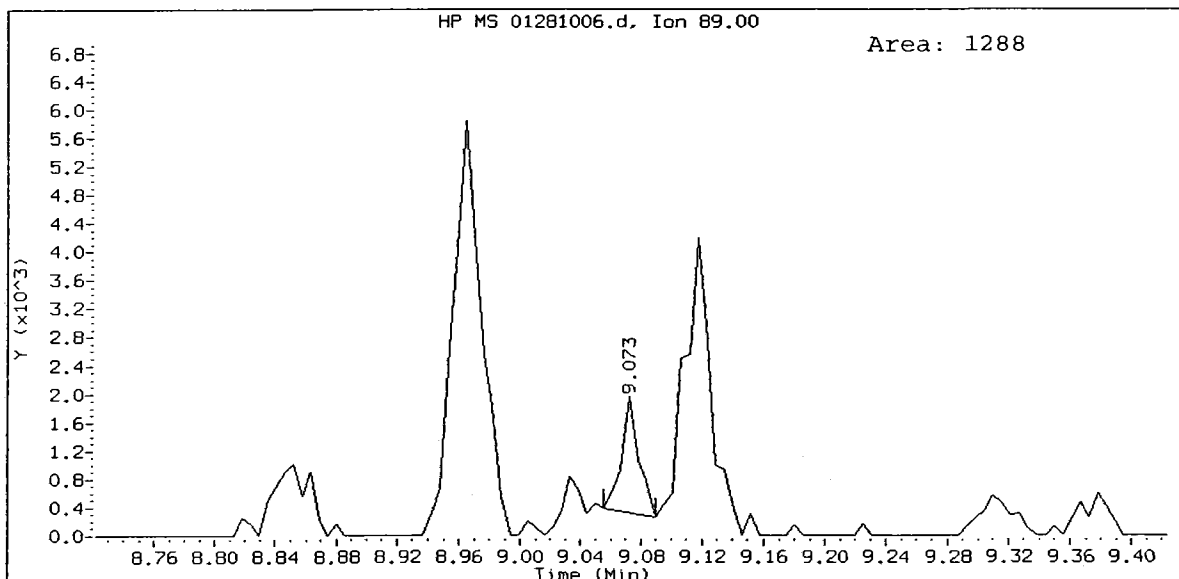
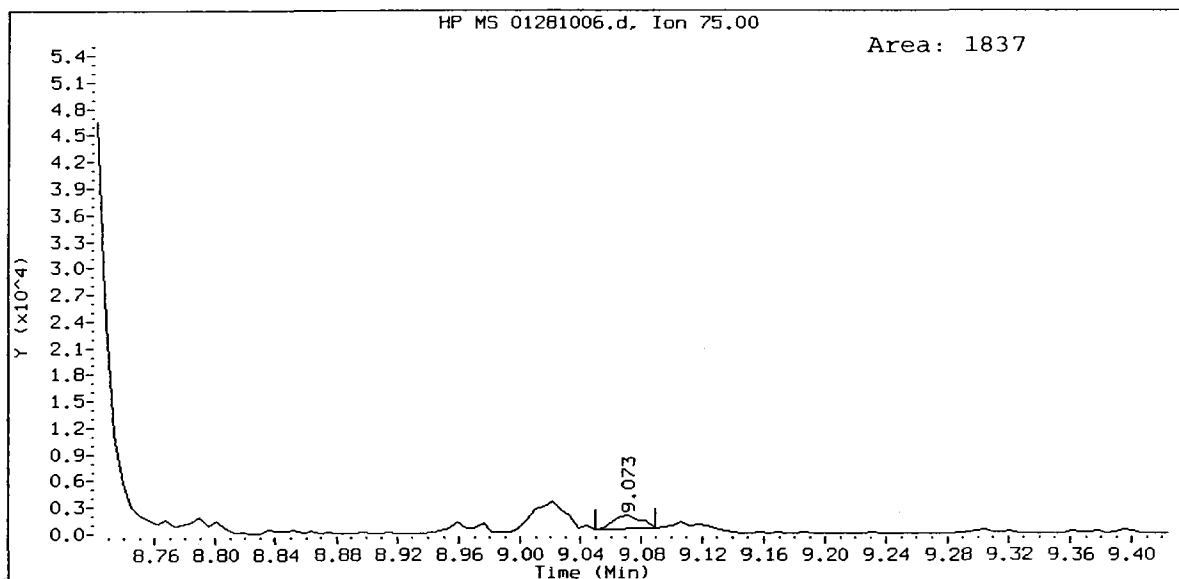
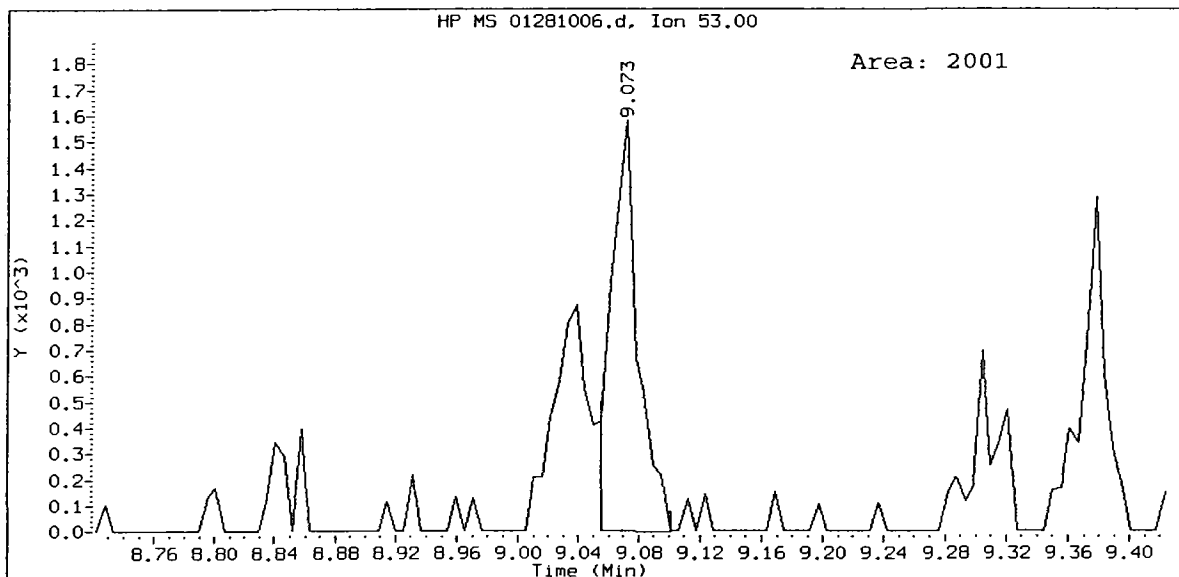
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Ethyl Benzene Amount: 0.49



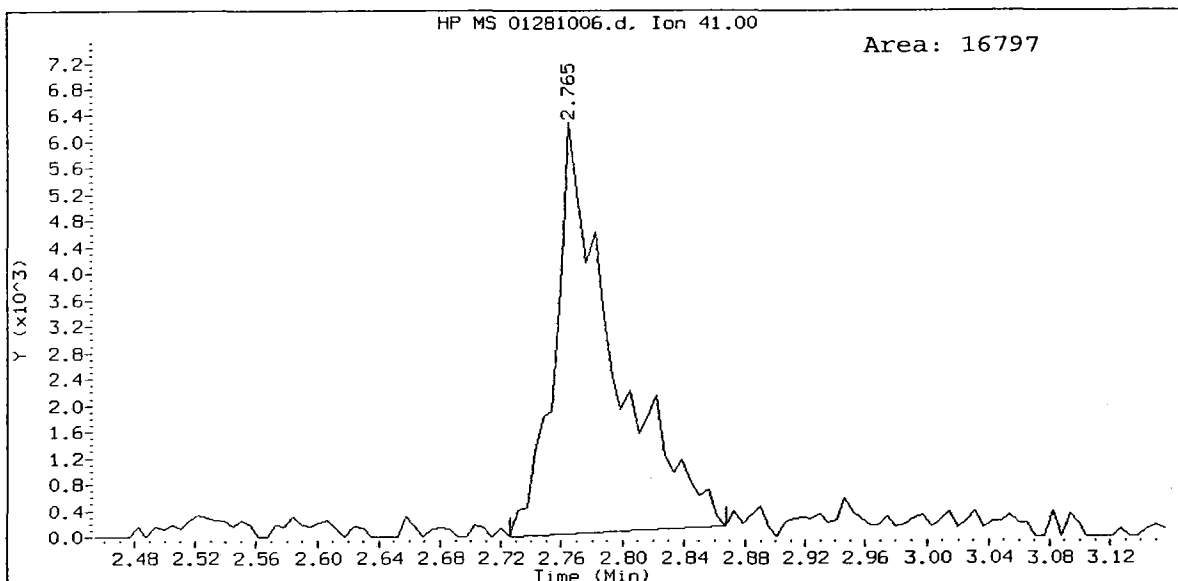
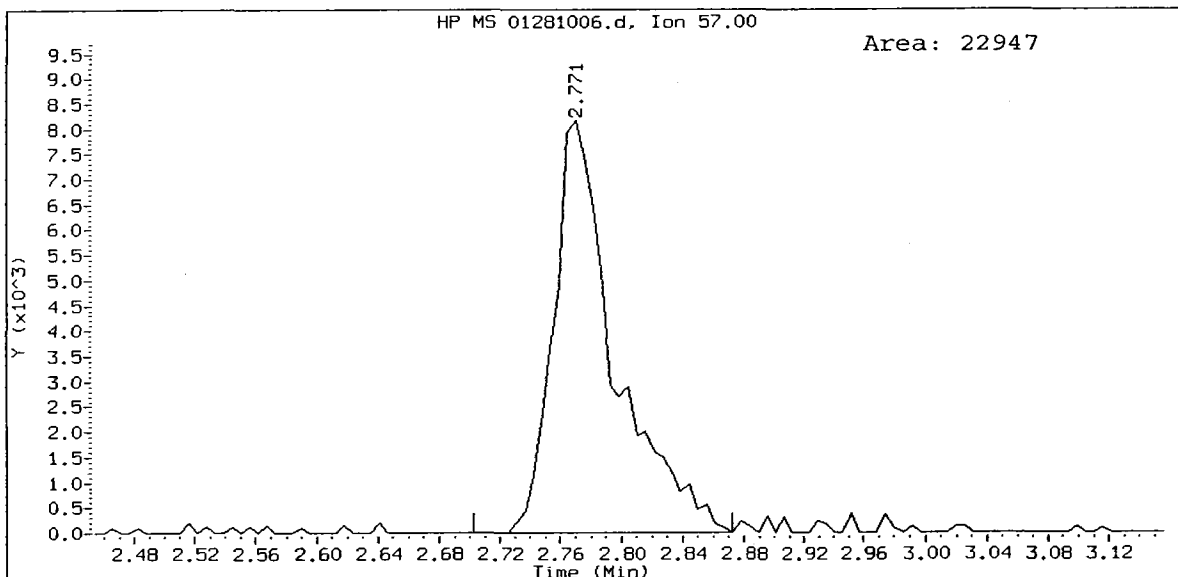
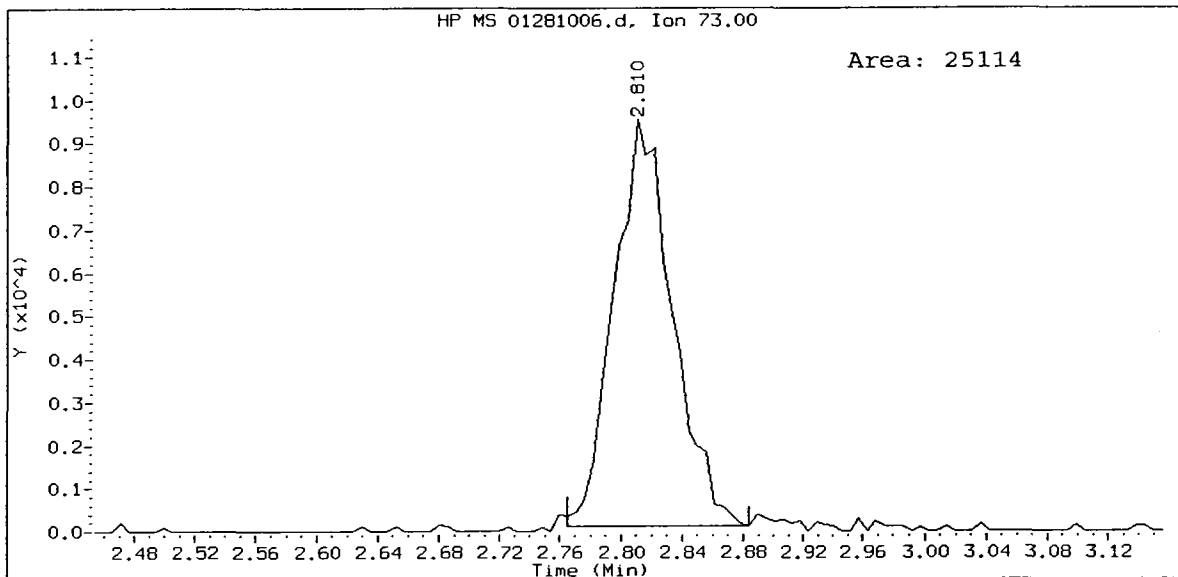
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1,2,3-Trichloropropane Amount: 0.56



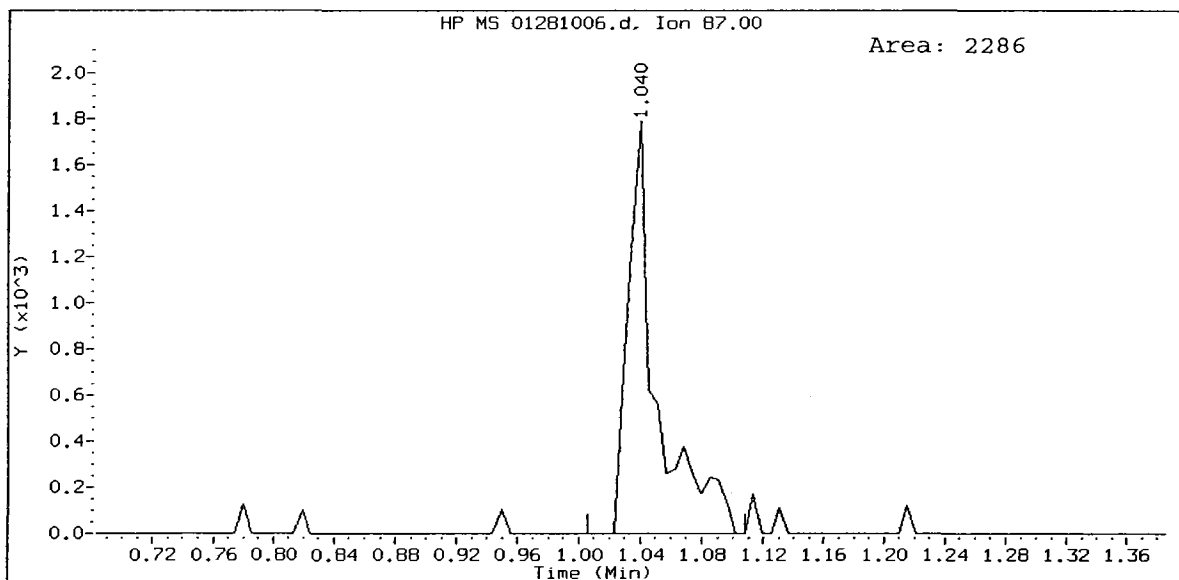
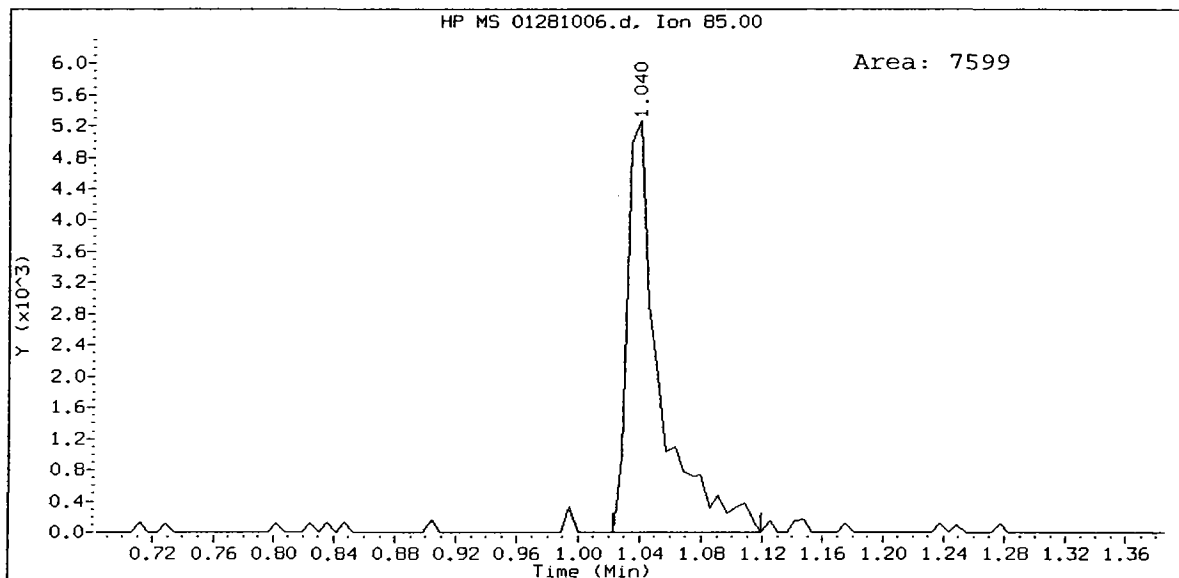
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Trans-1,4-Dichloro 2-Butene Amount: 0.51



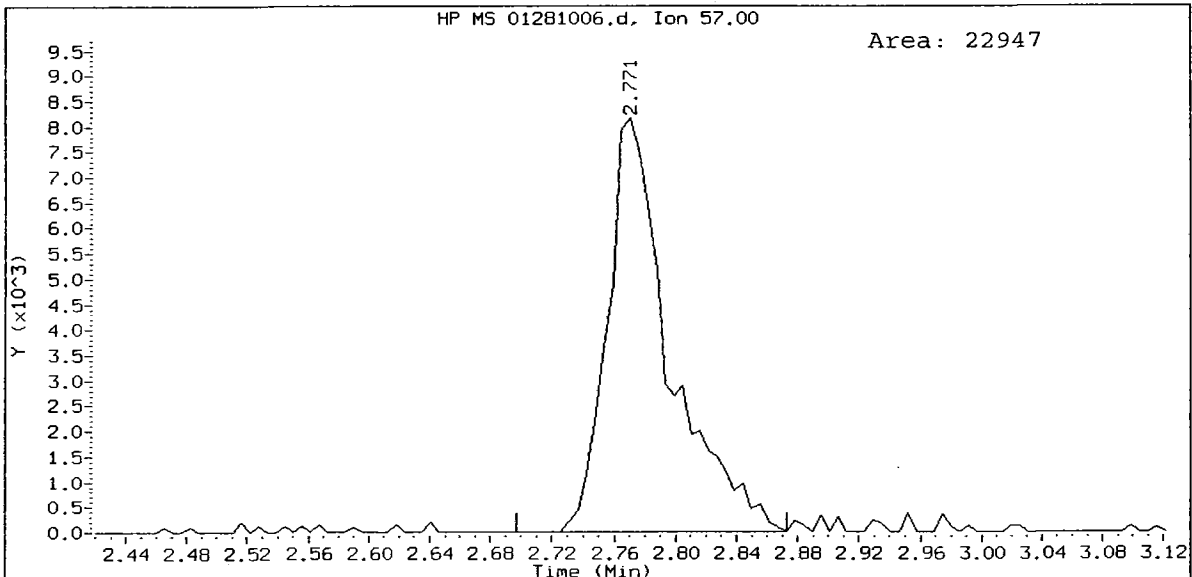
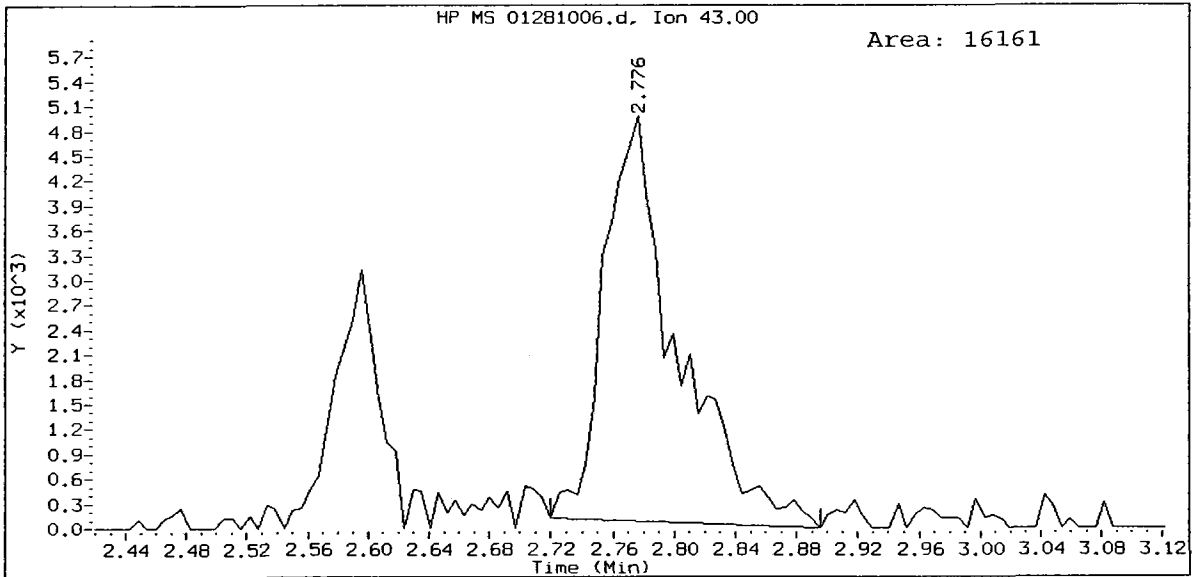
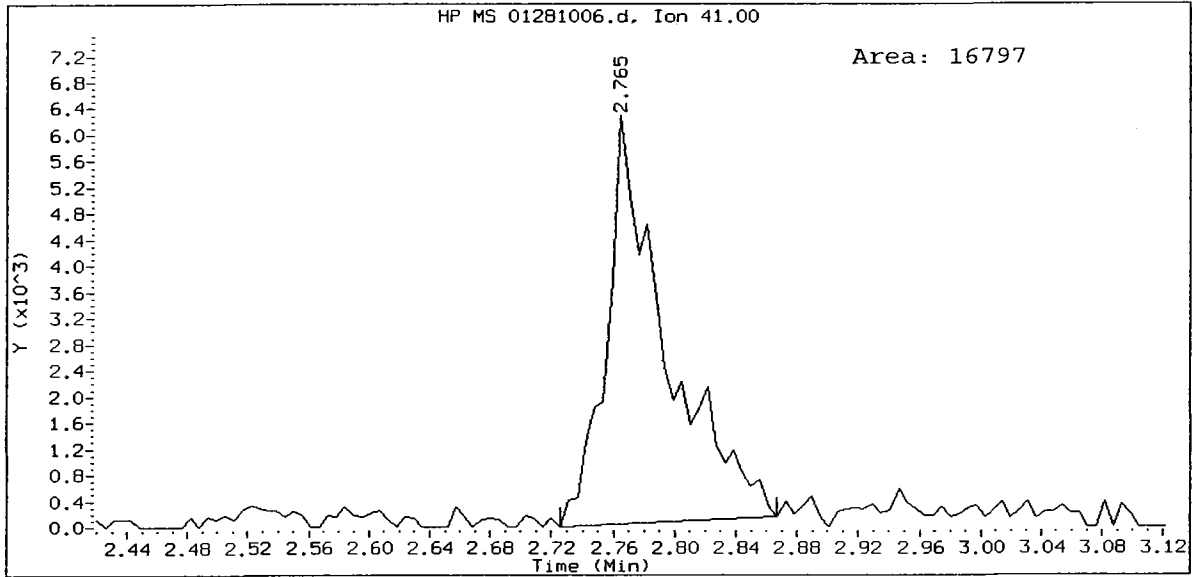
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Methyl tert butyl ether Amount: 0.50



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Dichlorodifluoromethane Amount: 0.46



0.5 0127, /chem1/nt5.i/28JAN10.b/01281006.d
Hexane Amount: 0.51



VC
1/29/10

Data File: /chem1/nt5.i/28JAN10.b/01281007.d
Report Date: 29-Jan-2010 10:36

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/28JAN10.b/01281007.d
Lab Smp Id: 1.0 0127 Client Smp ID: 1 ppb
Inj Date : 28-JAN-2010 15:57
Operator : PC Inst ID: nt5.i
Smp Info : 1.0 0127,10,10,0,
Disc Info : 10-
Comment :
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Inj Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vials bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa+hex.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Compound Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	14015	1.00000	0.8586 (M)
172 Hexane	41	2.771	2.771	(0.584)	33044	1.00000	1.029 (M)
2 Chloromethane	50	1.164	1.164	(0.245)	21492	1.00000	0.9298
3 Vinyl Chloride	62	1.221	1.226	(0.257)	25636	1.00000	0.9237
4 Bromomethane	94	1.453	1.453	(0.306)	15852	1.00000	0.8568 (M)
5 Chloroethane	64	1.543	1.543	(0.325)	17861	1.00000	0.9800 (M)
6 Trichlorofluoromethane	101	1.651	1.651	(0.348)	32858	1.00000	1.005
12 Acrolein	56	2.330	2.318	(0.491)	5524	5.00000	4.463
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.098	2.092	(0.442)	23868	1.00000	0.9587
14 Acetone	43	2.595	2.590	(0.547)	12577	5.00000	5.351 (M)
7 1,1-Dichloroethene	96	2.047	2.041	(0.431)	24810	1.00000	0.9569
11 Bromoethane	108	2.256	2.250	(0.475)	17774	1.00000	0.9461
10 Iodomethane	142	2.149	2.148	(0.453)	37026	1.00000	0.9807
13 Methylene Chloride	84	2.528	2.527	(0.533)	26077	1.00000	1.014
18 Acrylonitrile	53	3.359	3.348	(0.708)	3987	1.00000	1.059 (TQM)
16 Methyl tert butyl ether	73	2.810	2.805	(0.592)	48481	1.00000	0.9732 (M)

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	
8 Carbon Disulfide	76	2.052	2.052	(0.433)	82381	1.00000	0.9837
15 Trans-1,2-Dichloroethene	96	2.680	2.680	(0.565)	29211	1.00000	1.033
19 Vinyl Acetate	43	3.602	3.597	(0.759)	23116	1.00000	0.9361
17 1,1-Dichloroethane	63	3.297	3.291	(0.695)	40498	1.00000	0.9777
29 2-Butanone	72	4.411	4.405	(0.930)	8195	5.00000	5.493 (QM)
21 2,2-Dichloropropane	77	3.919	3.925	(0.826)	36038	1.00000	0.9901
20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.806)	28210	1.00000	0.9999
32 Pentafluorobenzene	168	4.745	4.739	(1.000)	468227	10.0000	
23 Chloroform	83	4.106	4.106	(0.865)	39159	1.00000	0.9672
22 Bromochloromethane	128	4.004	4.004	(0.844)	11348	1.00000	0.9890
25 Dibromofluoromethane	111	4.270	4.270	(0.900)	165809	10.0000	10.023
26 1,1,1-Trichloroethane	97	4.270	4.264	(0.900)	36027	1.00000	0.9844
28 1,1-Dichloropropene	75	4.383	4.388	(0.845)	34987	1.00000	1.003
24 Carbon Tetrachloride	117	4.208	4.202	(0.811)	28884	1.00000	0.9753
31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	151513	10.0000	10.257
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	20521	1.00000	0.9061
30 Benzene	78	4.604	4.609	(0.888)	103604	1.00000	0.9844
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	707103	10.0000	
34 Trichloroethene	130	5.141	5.135	(0.991)	27401	1.00000	0.9327
38 1,2-Dichloropropane	63	5.582	5.576	(1.076)	22874	1.00000	0.9930
39 Bromodichloromethane	83	5.650	5.650	(1.089)	24598	1.00000	0.9143
37 Dibromomethane	93	5.486	5.486	(1.058)	9754	1.00000	0.9571
40 2-Chloroethyl Vinyl Ether	63	6.176	6.170	(1.191)	7962	1.00000	0.9587 (H)
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	20194	5.00000	4.891
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	36463	1.00000	0.9910
42 d8-Toluene	98	6.352	6.346	(1.225)	775517	10.0000	10.083
43 Toluene	92	6.391	6.391	(1.232)	69200	1.00000	0.9852
46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	26320	1.00000	0.8857
51 2-Hexanone	43	7.460	7.455	(0.976)	26704	5.00000	4.530
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	15350	1.00000	0.9773
49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	27597	1.00000	0.9882
44 Tetrachloroethene	166	6.714	6.708	(0.878)	29308	1.00000	0.9664
48 Chlorodibromomethane	129	7.019	7.019	(0.918)	17523	1.00000	0.9430
50 1,2-Dibromoethane	107	7.194	7.200	(1.387)	15140	1.00000	0.9889
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	615931	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.002)	72663	1.00000	0.9972
54 Ethyl Benzene	91	7.709	7.709	(1.008)	134691	1.00000	0.9981 (M)
55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	23930	1.00000	0.9874
56 m,p-xylene	106	7.839	7.839	(1.025)	103241	2.00000	2.017
57 o-Xylene	106	8.201	8.201	(1.072)	48472	1.00000	0.9792
58 Styrene	104	8.252	8.252	(1.079)	75656	1.00000	0.9366
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	123152	1.00000	1.015
59 Bromoform	173	8.247	8.247	(0.849)	9531	1.00000	1.055
64 1,1,2,2-Tetrachloroethane	83	8.914	8.920	(0.918)	14136	1.00000	0.9335
61 4-Bromofluorobenzene	95	8.716	8.716	(1.140)	273961	10.0000	9.884
66 1,2,3-Trichloropropane	110	9.016	9.021	(0.928)	4163	1.00000	0.9734 (Q)
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	4040	1.00000	1.013 (Q)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
63 N-Propyl Benzene	91	8.846	8.852	(0.911)	140589	1.00000	1.032
62 Bromobenzene	156	8.790	8.790	(0.905)	29423	1.00000	1.012
67 1,3,5-Trimethyl Benzene	105	9.039	9.038	(0.931)	101036	1.00000	1.003
65 2-Chloro Toluene	91	8.965	8.965	(0.923)	84136	1.00000	1.016
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	82087	1.00000	0.9766
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	86751	1.00000	0.9981
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	100692	1.00000	0.9910
72 S-Butyl Benzene	105	9.469	9.468	(0.975)	127065	1.00000	1.025
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	106657	1.00000	1.021
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	56787	1.00000	0.9759
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	316869	10.0000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	56948	1.00000	0.9612 (Q)
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	91149	1.00000	1.010
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	283757	10.0000	10.142 (Q)
79 1,2-Dichlorobenzene	146	10.096	10.096	(1.040)	49290	1.00000	0.9654
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	2836	1.00000	1.083 (Q)
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	34259	1.00000	0.9957
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	13771	1.00000	1.082
84 Naphthalene	128	11.799	11.799	(1.215)	59488	1.00000	0.9775
85 1,2,3-Trichlorobenzene	180	11.969	11.974	(1.232)	29728	1.00000	1.082

QC Flag Legend

- ! - Target compound detected outside RT window.
-) - Qualifier signal failed the ratio test.
- I - Compound response manually integrated.
- Q - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i	Calibration Date: 28-JAN-2010
Lab File ID: 01281007.d	Calibration Time: 16:48
Lab Smp Id: 1.0 0127	Client Smp ID: 1 ppb
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m	
Disc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	468227	-0.71
35 1,4-Difluorobenze	723083	361542	1446166	707103	-2.21
52 d5-Chlorobenzene	624979	312490	1249958	615931	-1.45
75 d4-1,4-Dichlorobe	328841	164420	657682	316869	-3.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

REA UPPER LIMIT = +100% of internal standard area.
 REA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/28JAN10.b/01281007.d

Date : 28-JAN-2010 15:57

Client ID: 1 ppb

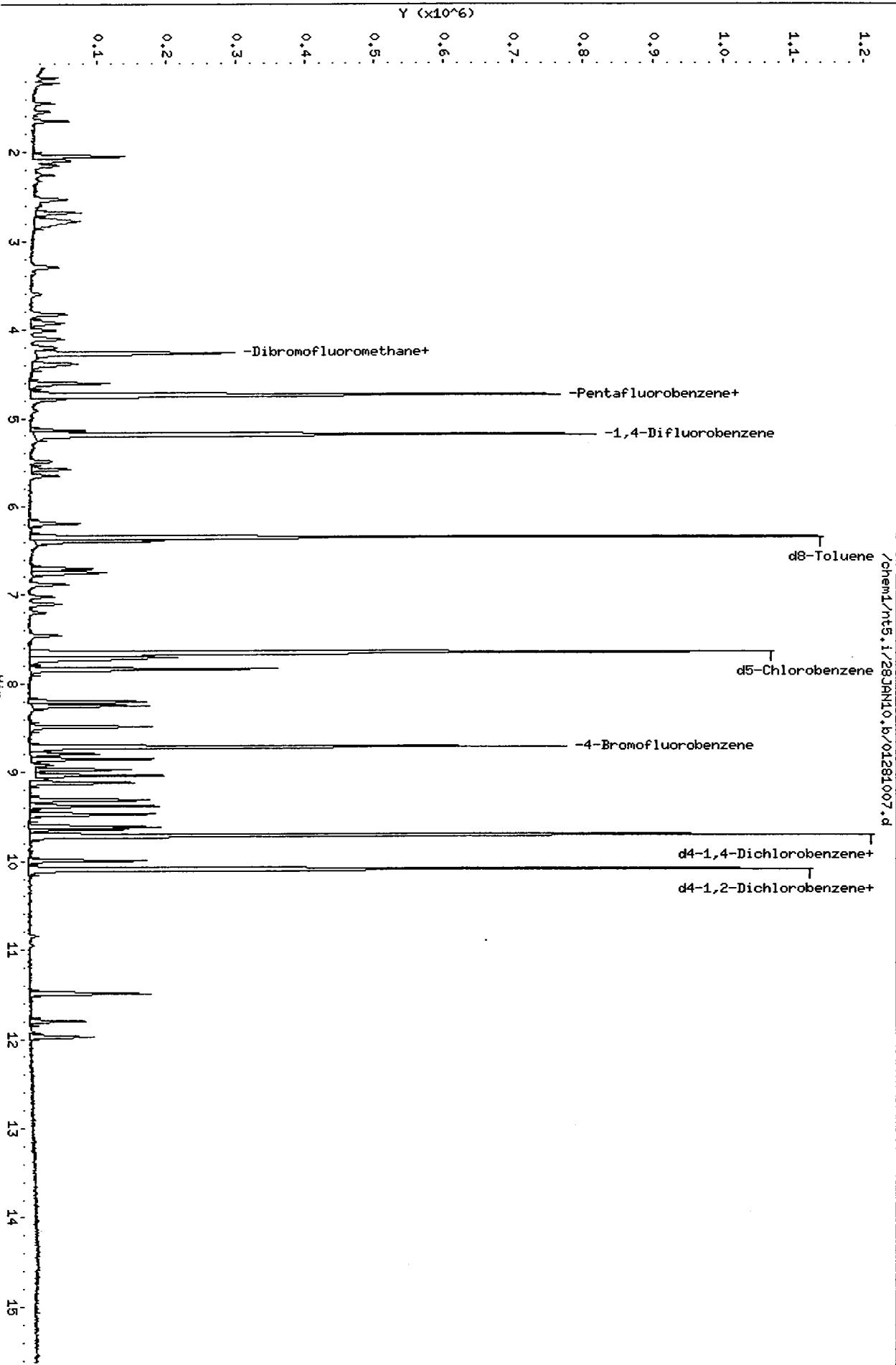
Sample Info: 1.0 0127,10,10,0,

Instrument: nt5.i

Page 5

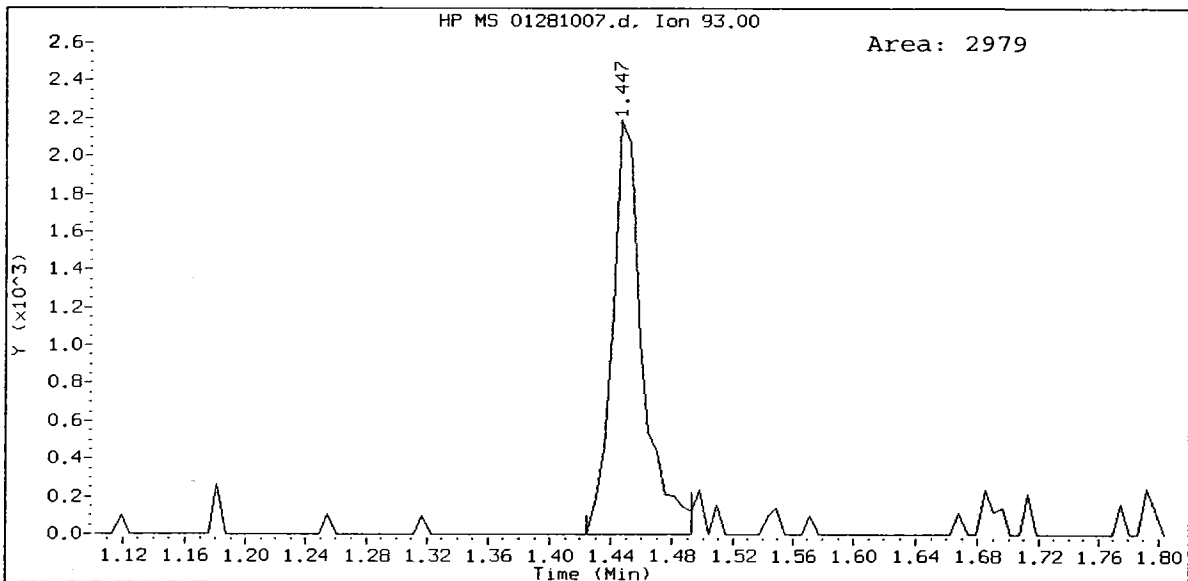
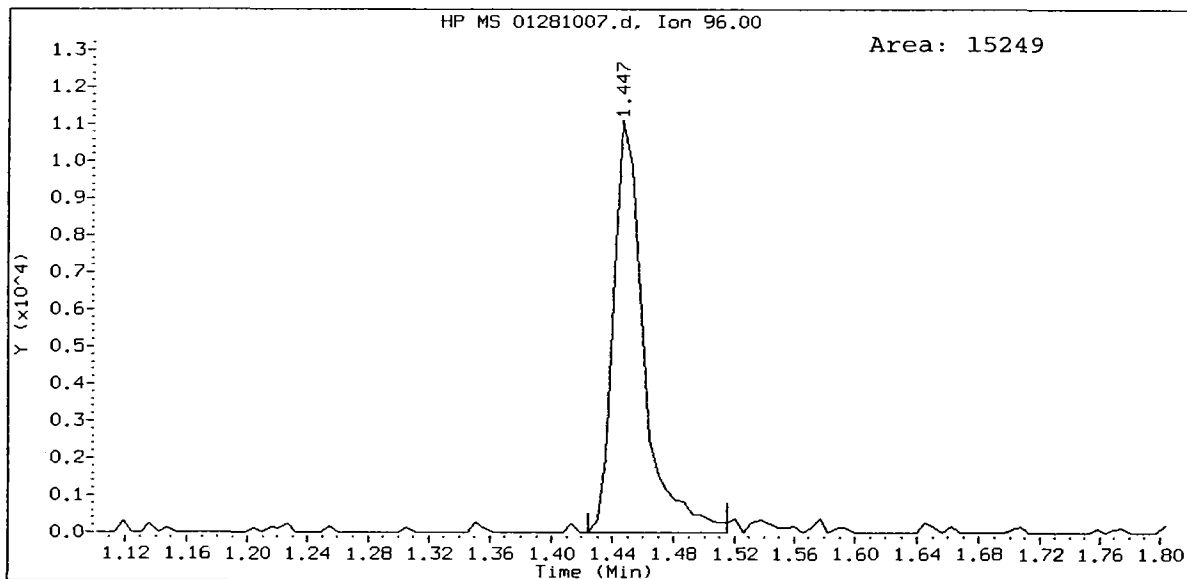
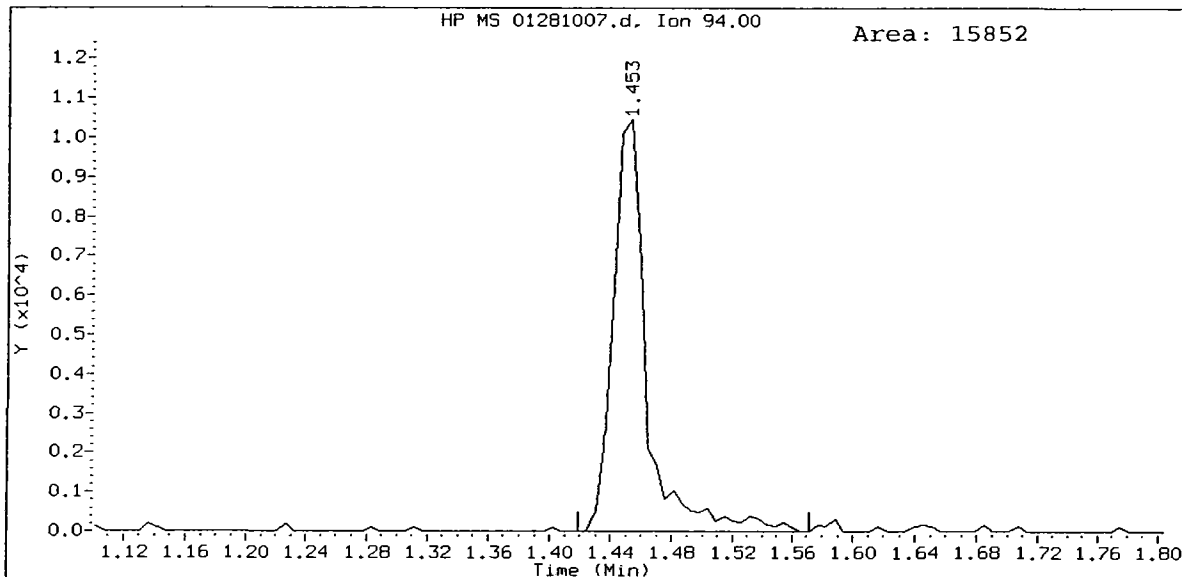
Column phase: RTXVHS

Operator: PC
Column diameter: 0.18



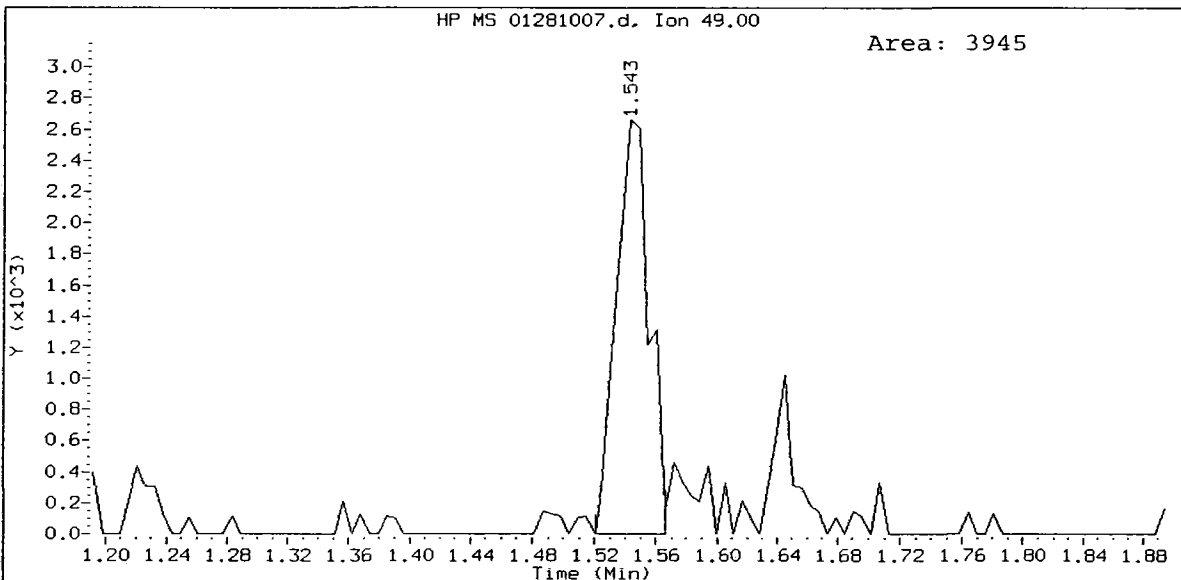
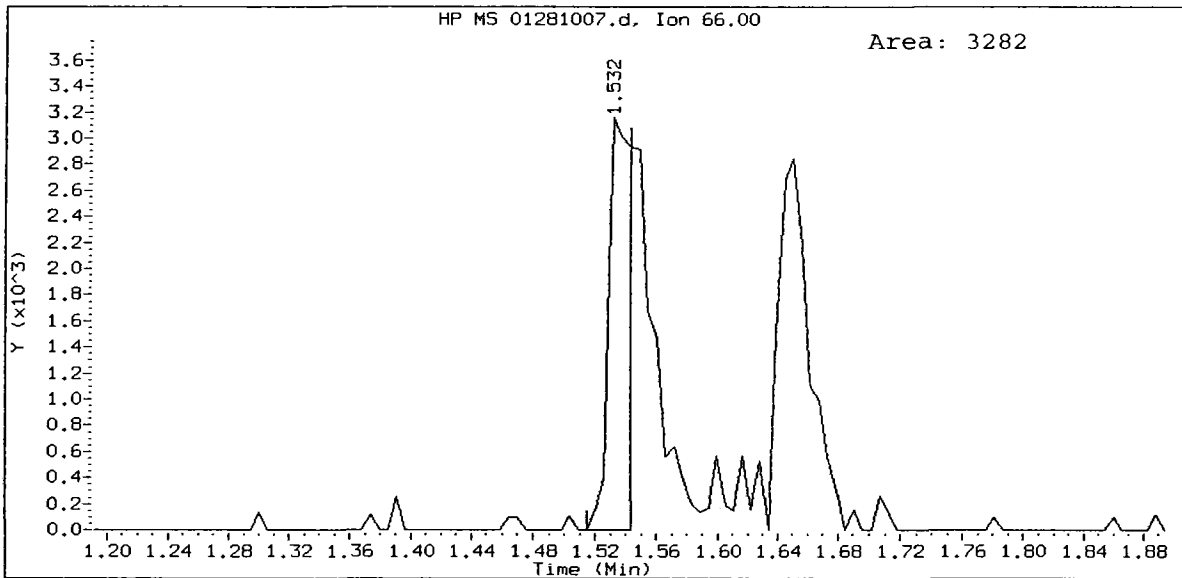
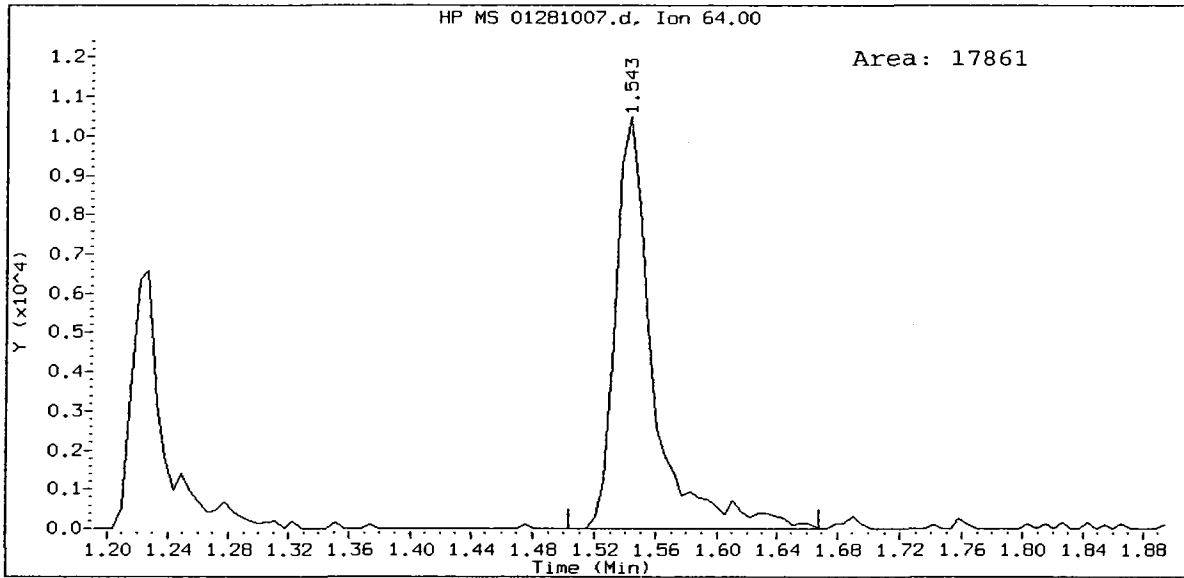
01281007.d

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Bromomethane Amount: 0.86

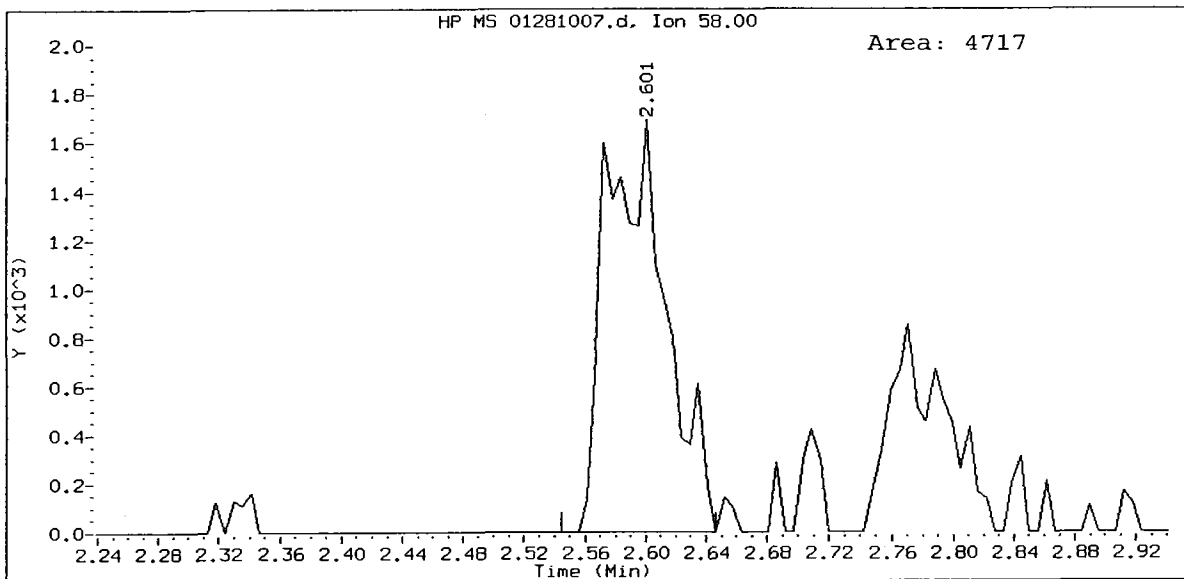
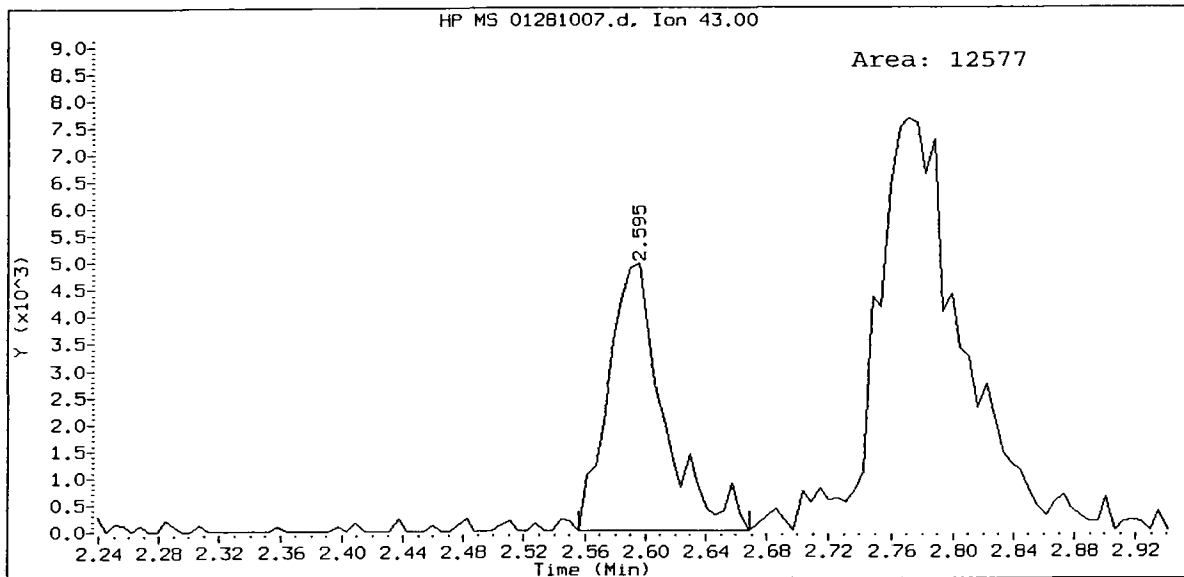


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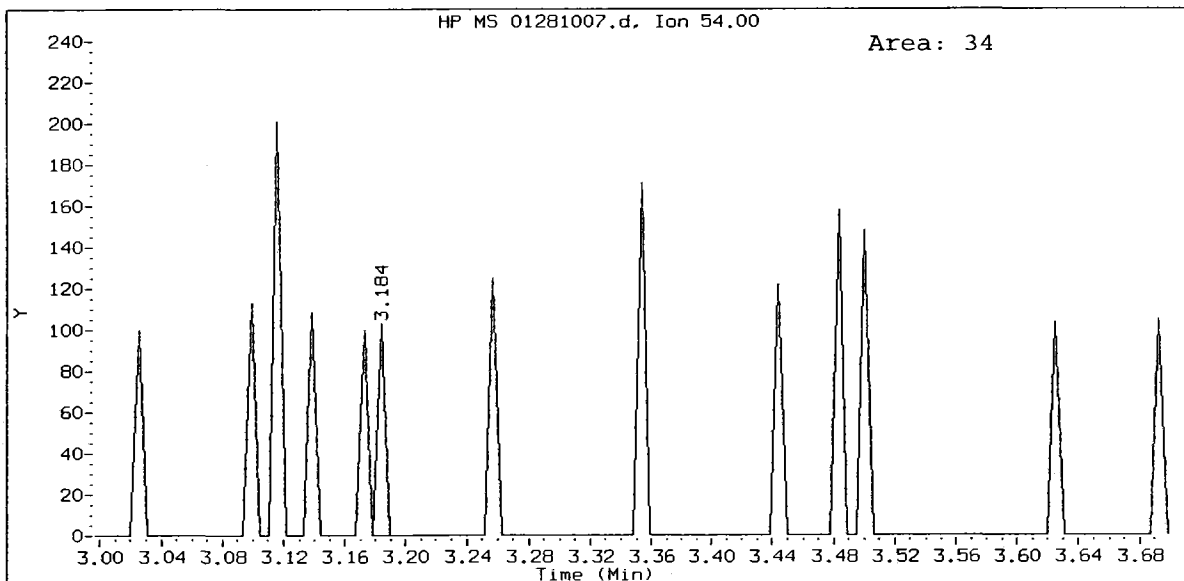
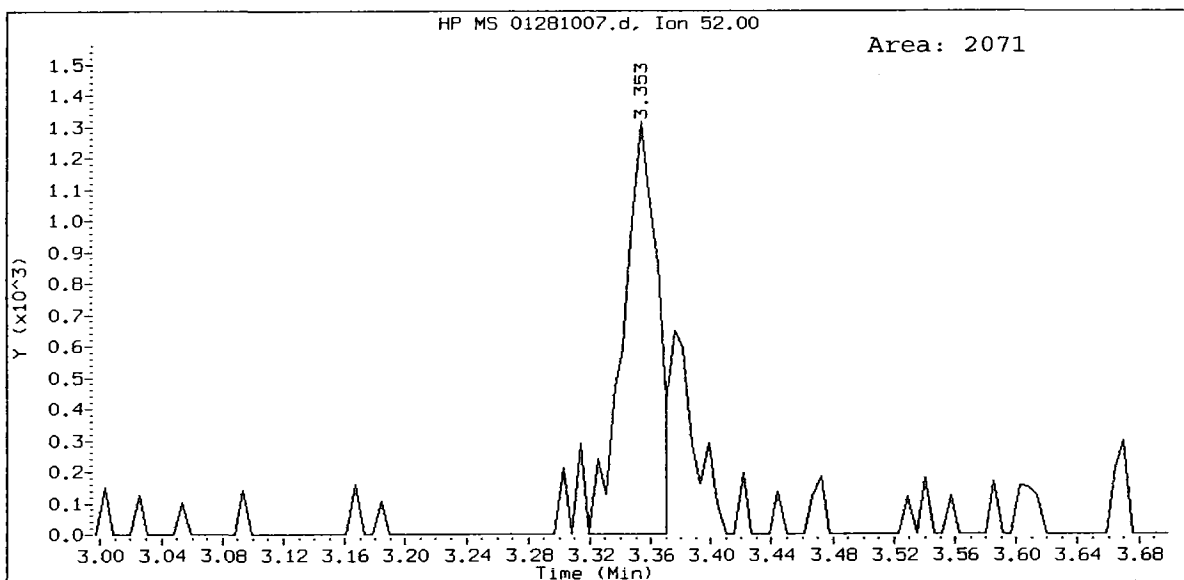
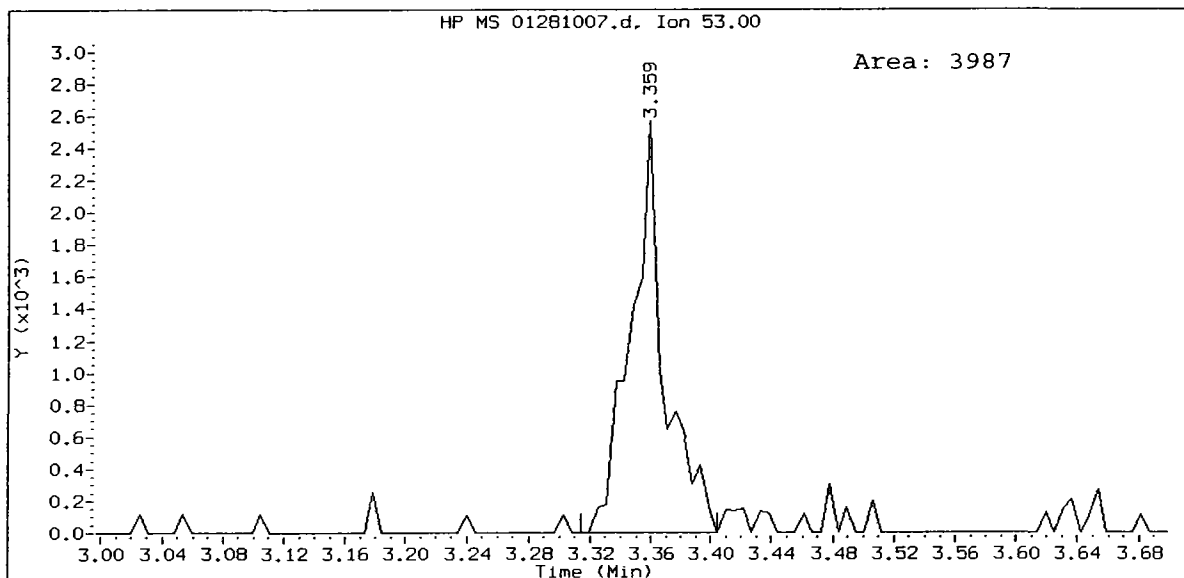
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Chloroethane Amount: 0.98

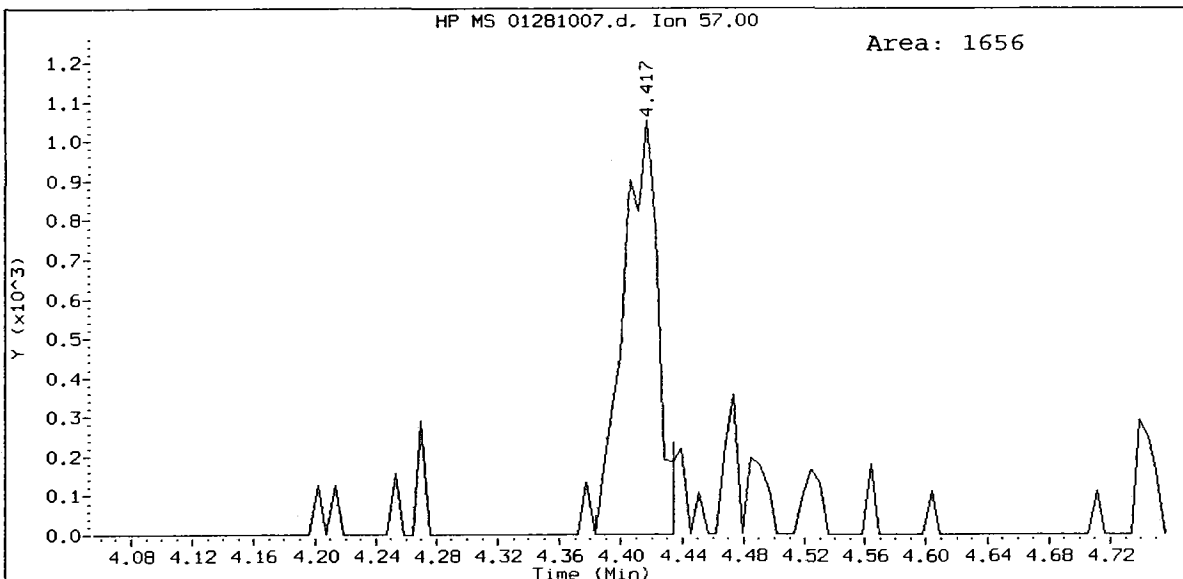
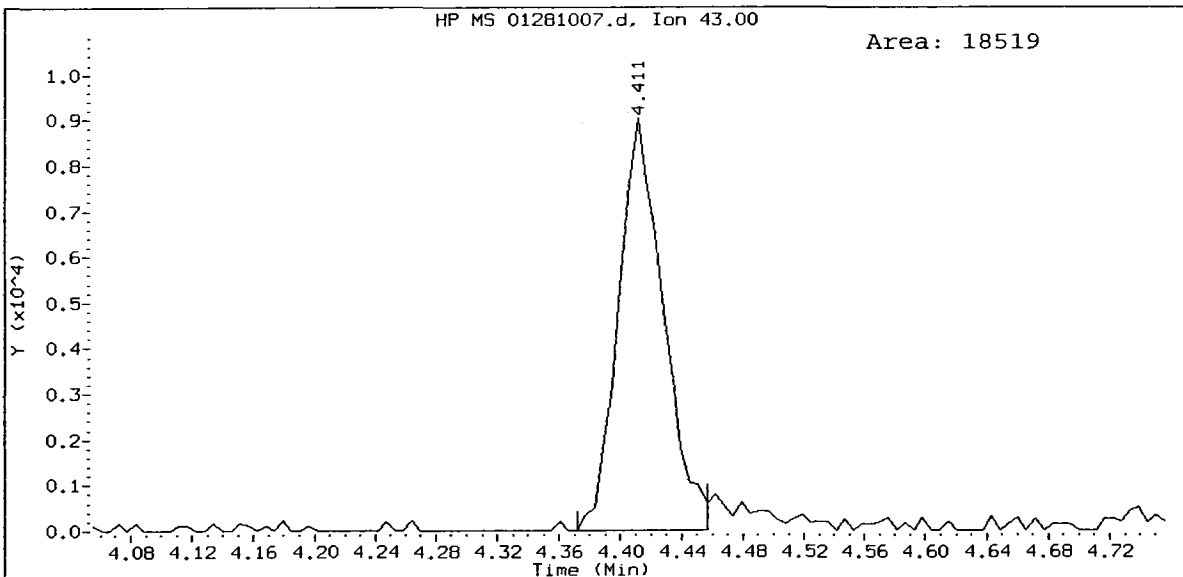
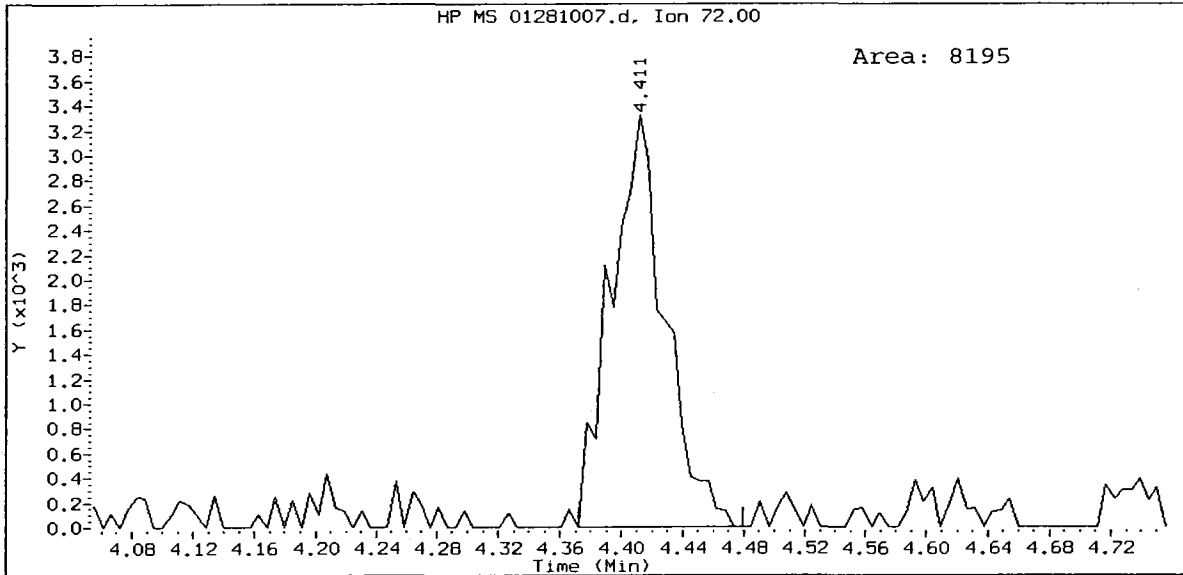


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Acetone Amount: 5.35

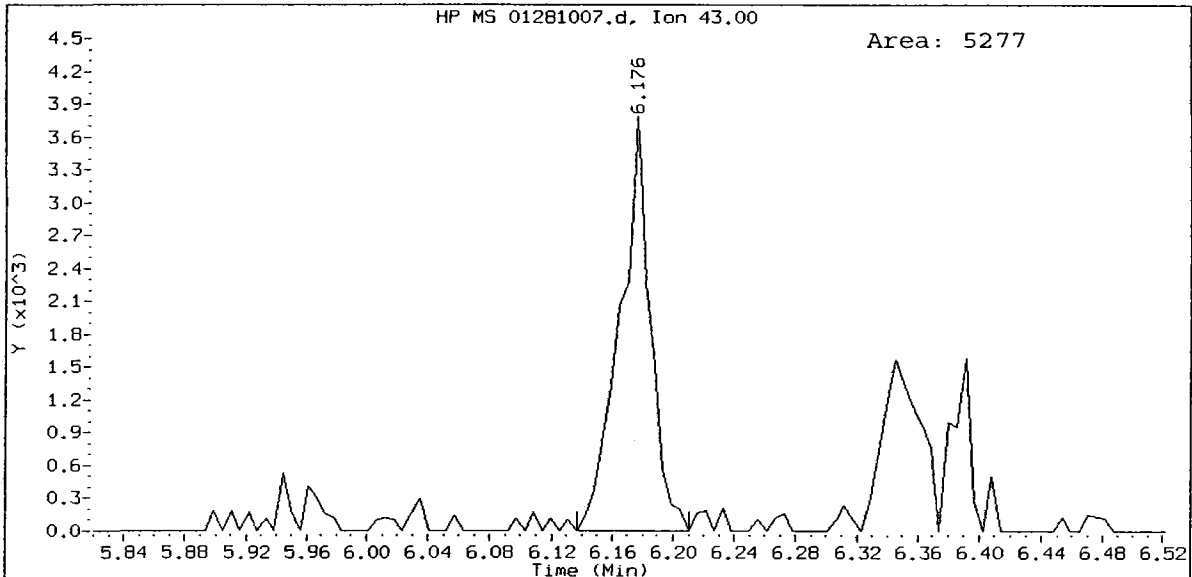
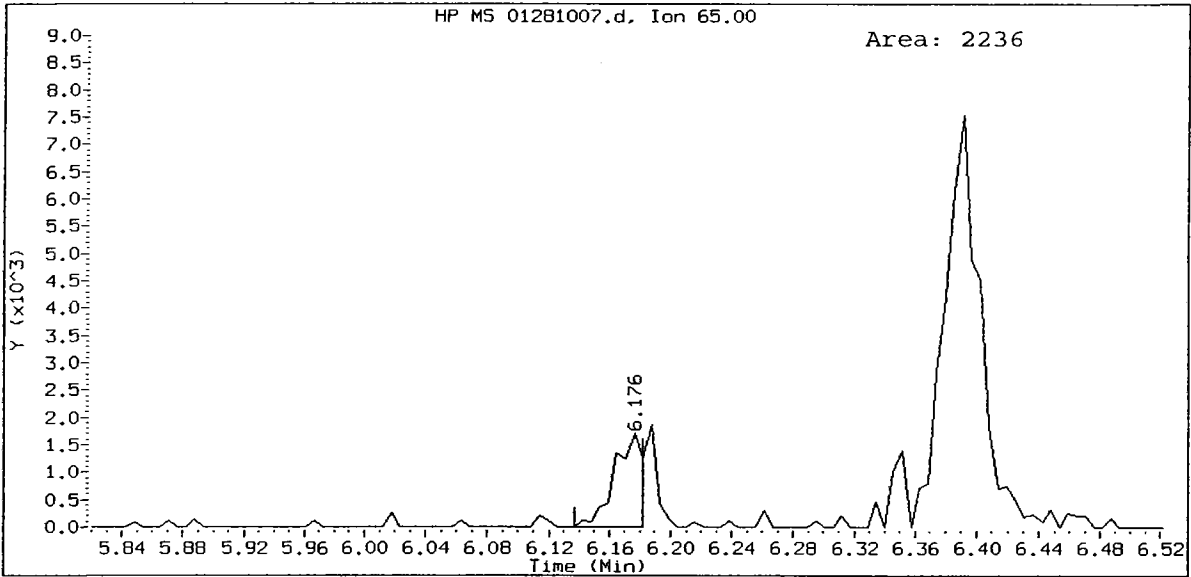
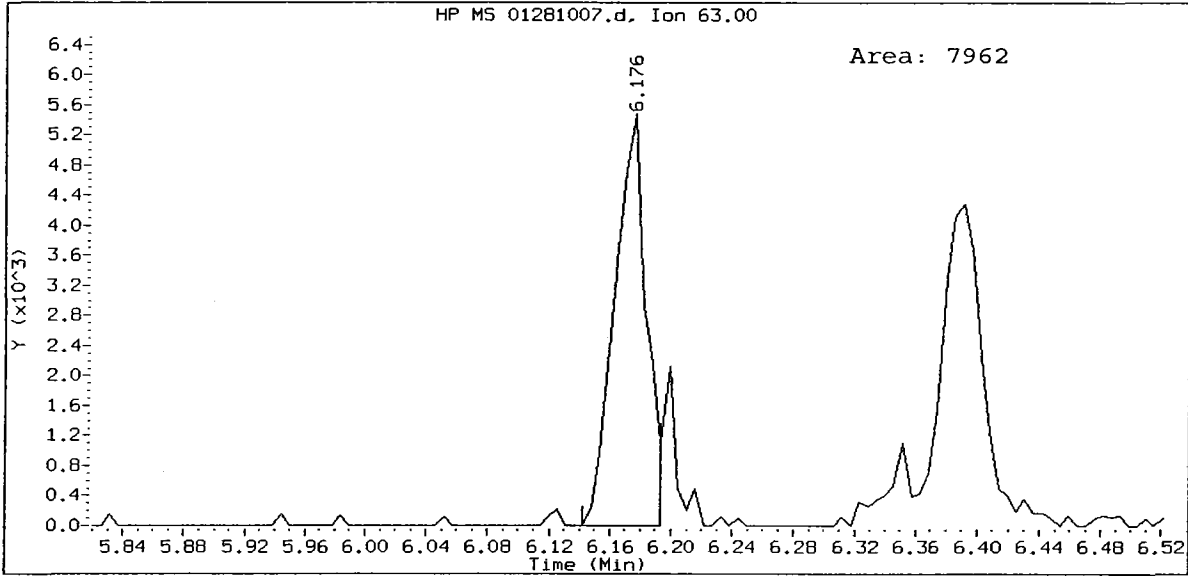


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Acrylonitrile Amount: 1.06

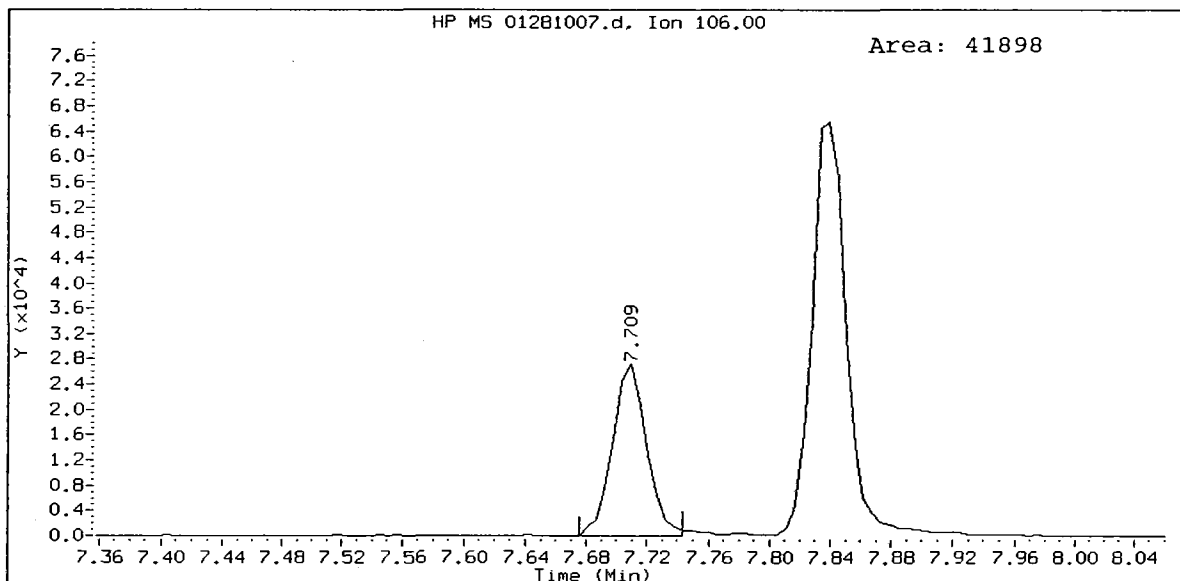
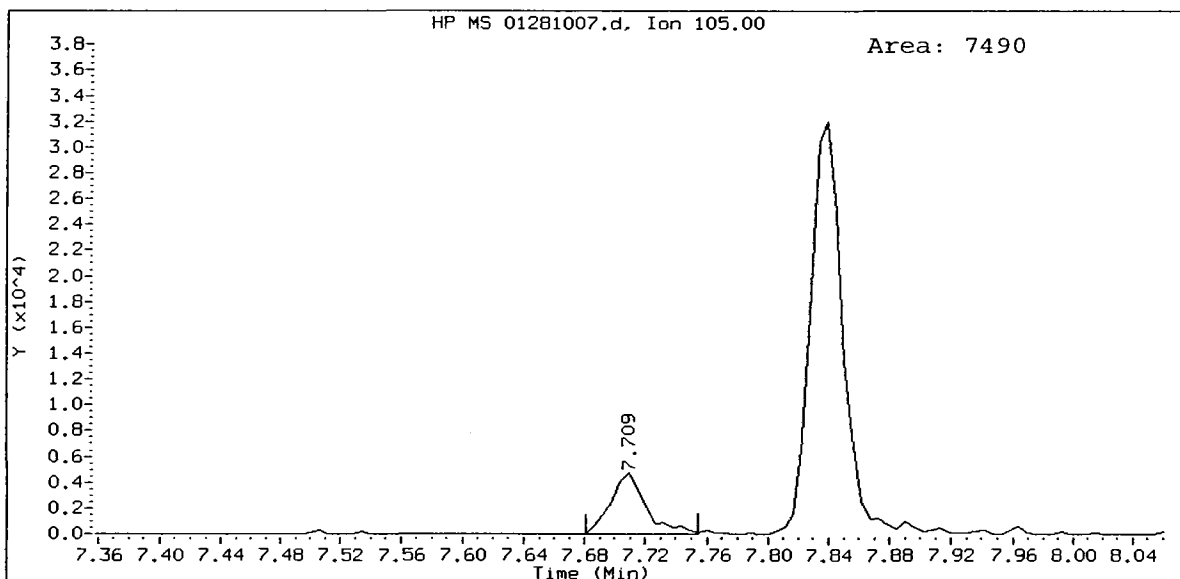
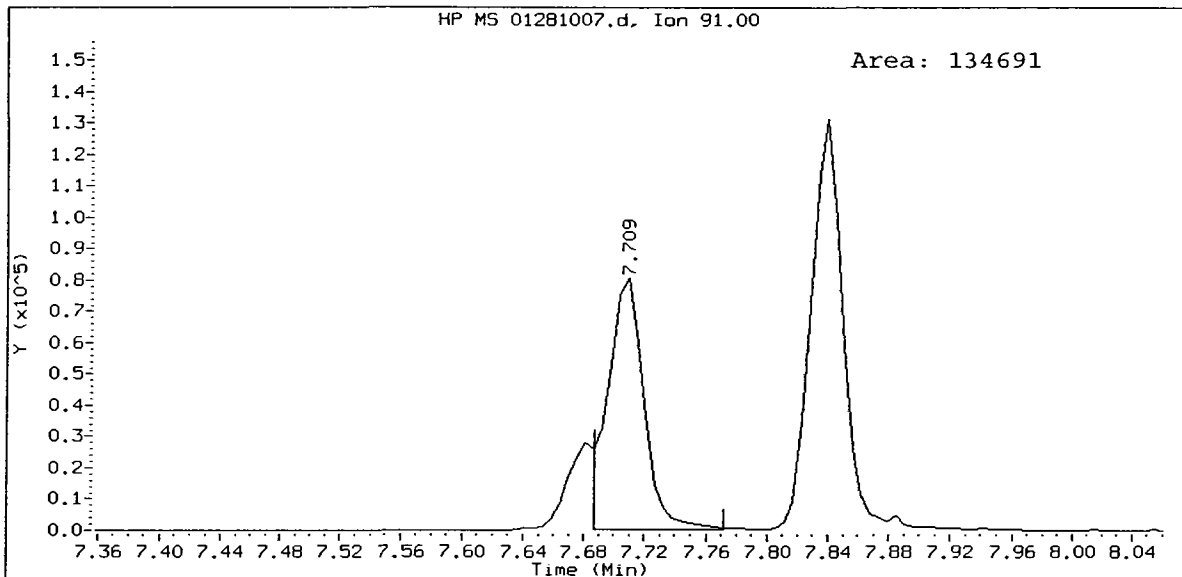




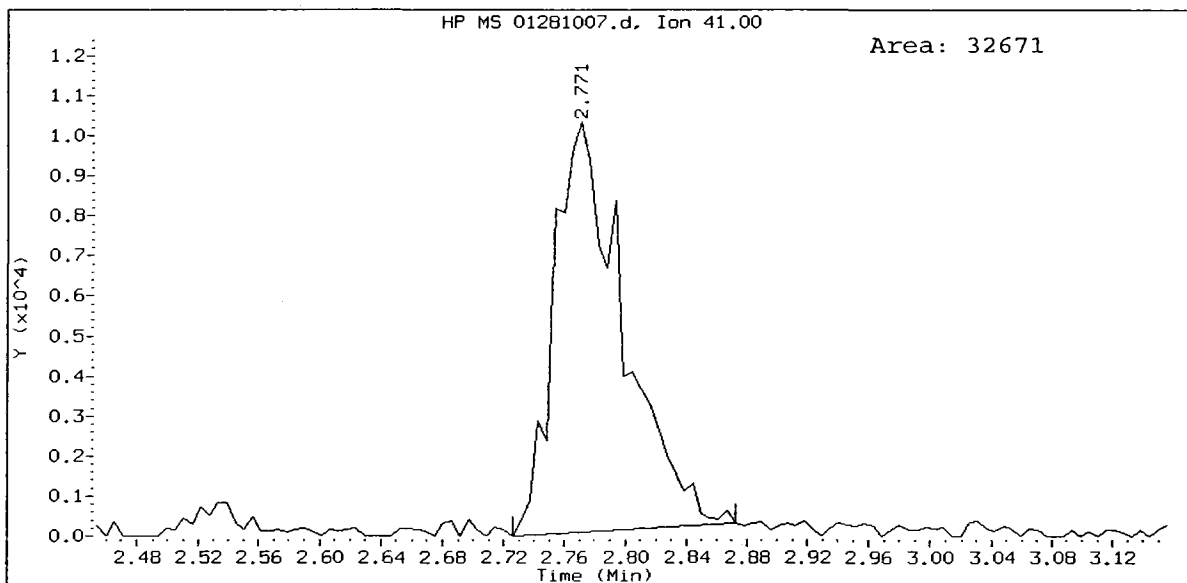
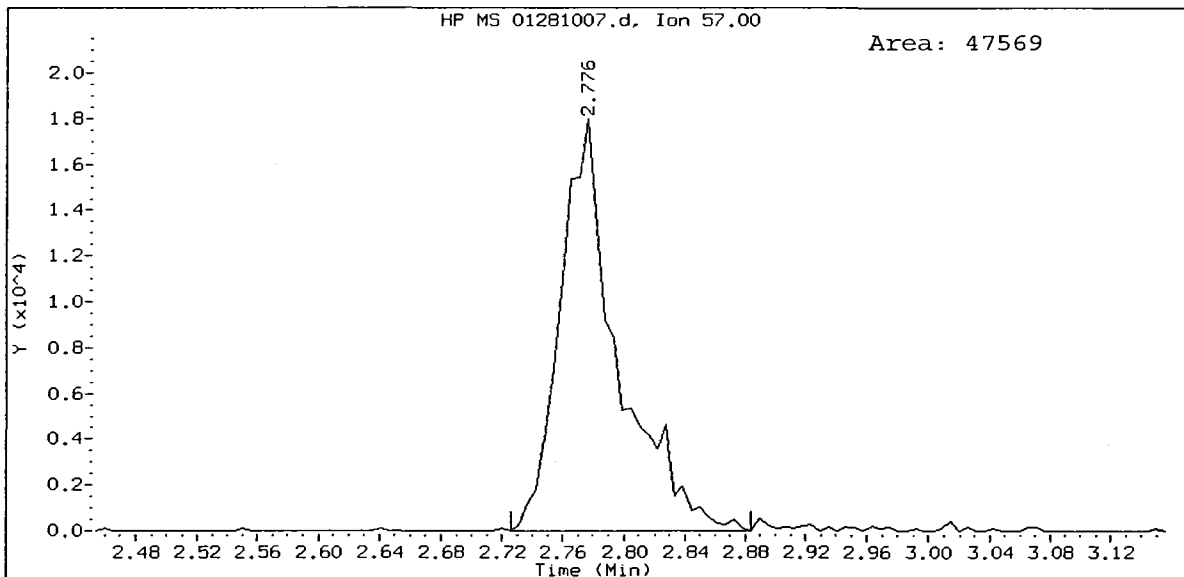
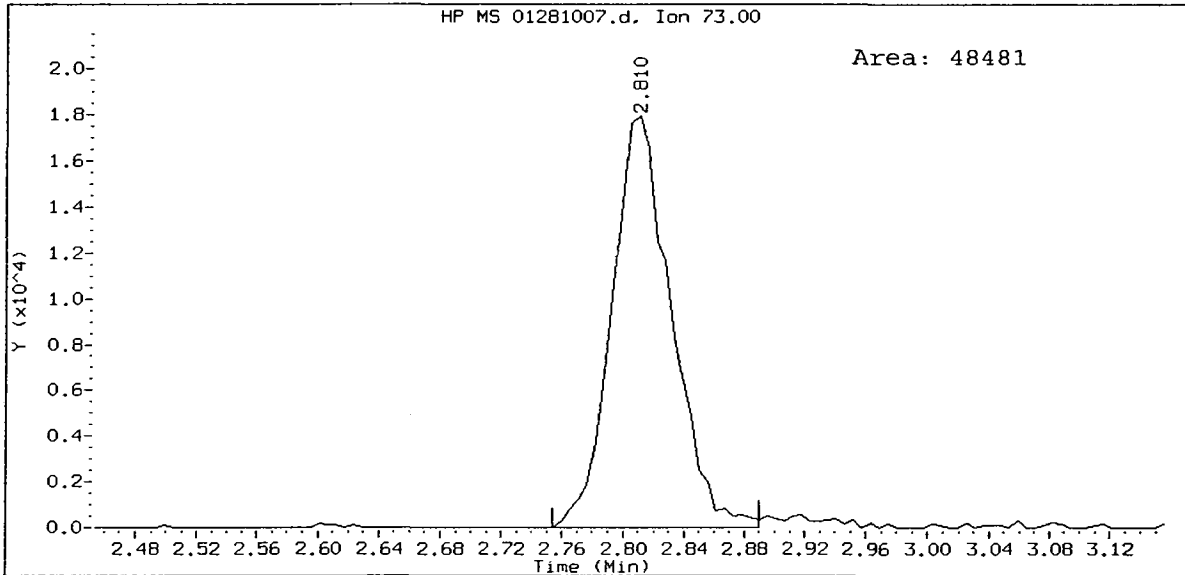
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2-Chloroethyl Vinyl Ether Amount: 0.96



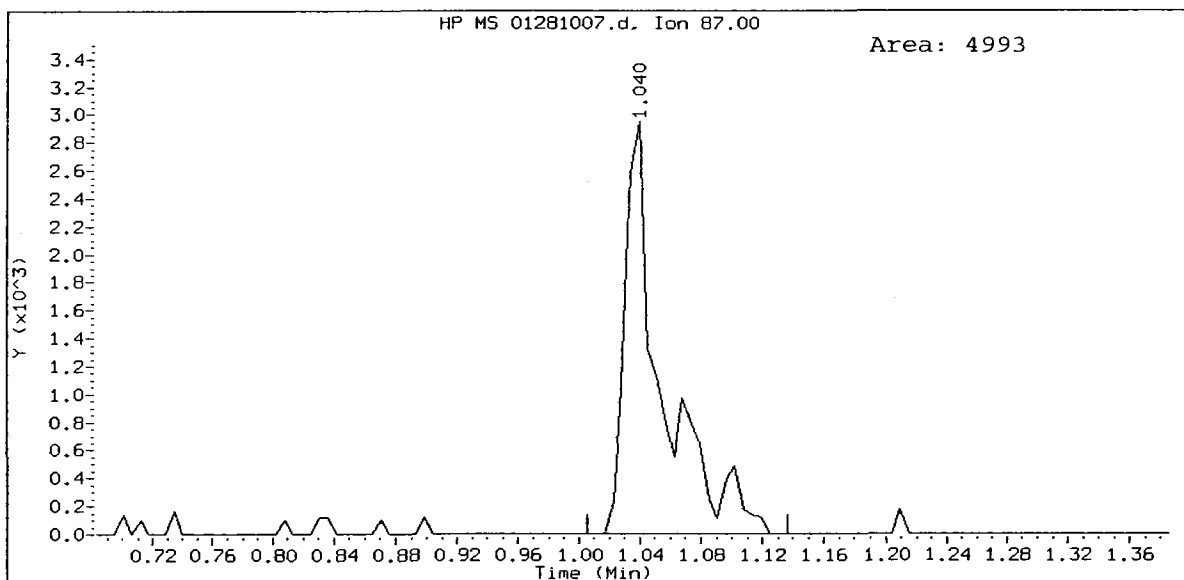
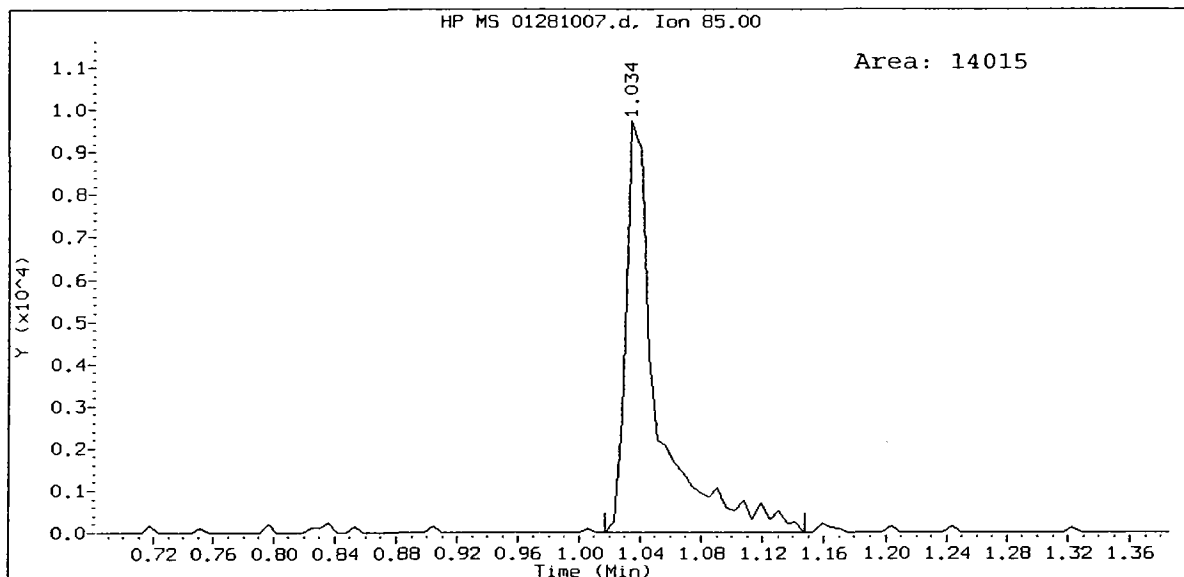
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Ethyl Benzene Amount: 1.00



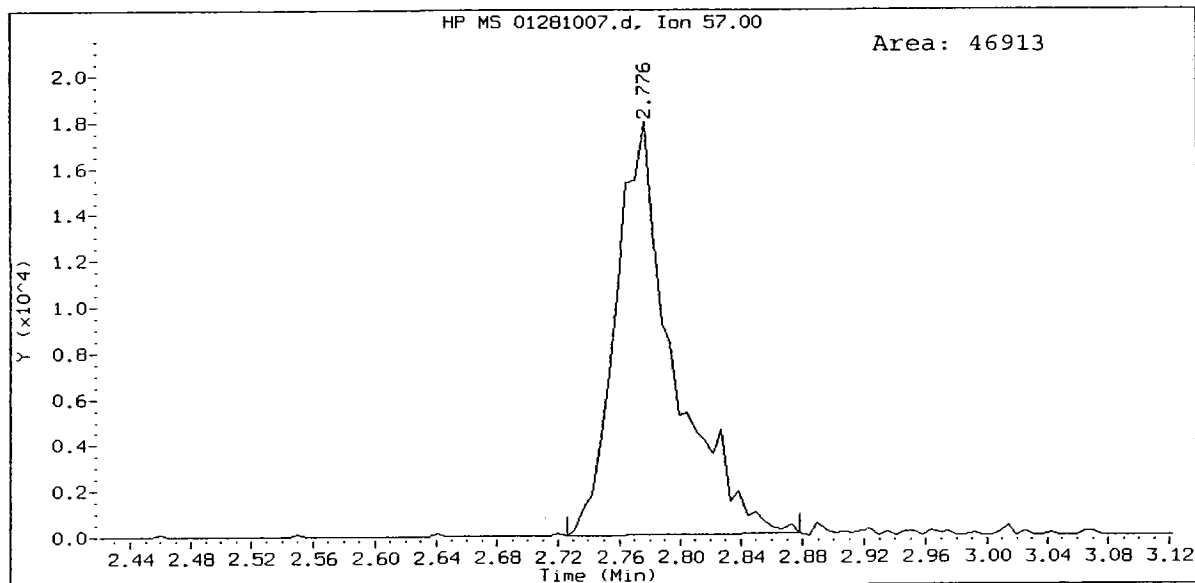
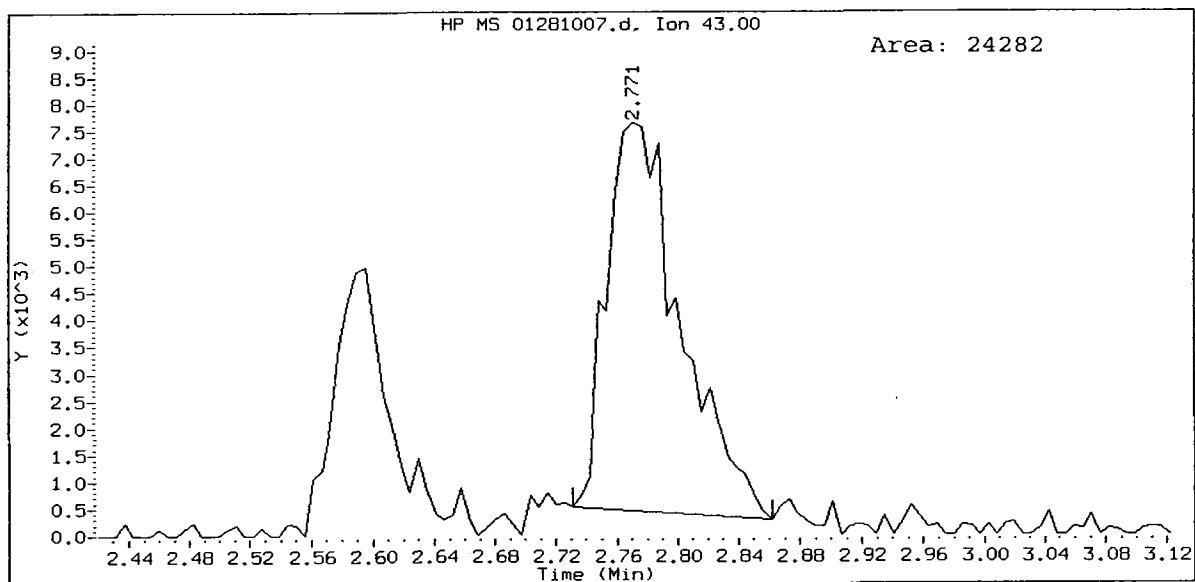
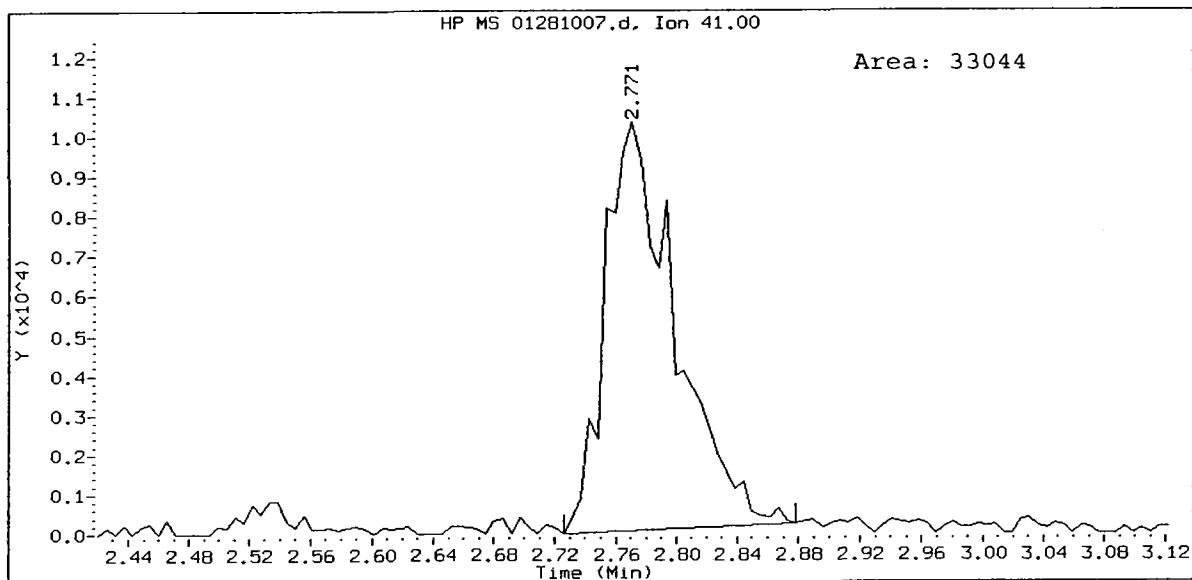
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Methyl tert butyl ether Amount: 0.97



1.0 0127, /chem1/nt5.i/28JAN10.b/01281007.d
Dichlorodifluoromethane Amount: 0.86



1.0 0127, /chem1/nt5.i/28JAN10.b/01281007.d
Hexane Amount: 1.03



PS
1/29/10

Data File: /chem1/nt5.i/28JAN10.b/01281008.d
Report Date: 29-Jan-2010 10:36

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/28JAN10.b/01281008.d
Lab Smp Id: 2.0 0127 Client Smp ID: 2 ppb
Inj Date : 28-JAN-2010 16:23
Operator : PC Inst ID: nt5.i
Smp Info : 2.0 0127,10,10,0,
Disc Info : 10-
Comment :
Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
Meth Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vials bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa+hex.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.040	1.034	(0.219)	35252	2.00000	2.130 (M)
172 Hexane	41	2.771	2.771	(0.585)	64032	2.00000	1.967 (M)
2 Chloromethane	50	1.164	1.164	(0.246)	47785	2.00000	2.039
3 Vinyl Chloride	62	1.226	1.226	(0.259)	59263	2.00000	2.106 (M)
4 Bromomethane	94	1.453	1.453	(0.307)	35498	2.00000	1.893 (M)
5 Chloroethane	64	1.549	1.543	(0.327)	38446	2.00000	2.081 (M)
6 Trichlorofluoromethane	101	1.651	1.651	(0.348)	68474	2.00000	2.065
12 Acrolein	56	2.324	2.318	(0.490)	11675	10.0000	9.304 (M)
9 112Trichloro122Trifluoroethane	101	2.098	2.092	(0.443)	50519	2.00000	2.002
14 Acetone	43	2.584	2.590	(0.545)	22576	10.0000	9.474
7 1,1-Dichloroethene	96	2.047	2.041	(0.432)	52852	2.00000	2.011
11 Bromoethane	108	2.256	2.250	(0.476)	37475	2.00000	1.968
10 Iodomethane	142	2.149	2.148	(0.453)	79201	2.00000	2.069
13 Methylene Chloride	84	2.528	2.527	(0.533)	52340	2.00000	2.008
18 Acrylonitrile	53	3.353	3.348	(0.708)	7898	2.00000	2.070 (M)
16 Methyl tert butyl ether	73	2.810	2.805	(0.593)	103447	2.00000	2.048

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	
8 Carbon Disulfide	76	2.052	2.052	(0.433)	173671	2.00000	2.046
15 Trans-1,2-Dichloroethene	96	2.680	2.680	(0.566)	56423	2.00000	1.968
19 Vinyl Acetate	43	3.597	3.597	(0.759)	49001	2.00000	1.957
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	83263	2.00000	1.983
29 2-Butanone	72	4.406	4.405	(0.930)	14283	10.00000	9.443
21 2,2-Dichloropropane	77	3.925	3.925	(0.828)	73120	2.00000	1.982
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.808)	56122	2.00000	1.962
32 Pentafluorobenzene	168	4.739	4.739	(1.000)	474687	10.00000	
23 Chloroform	83	4.106	4.106	(0.866)	81140	2.00000	1.977
22 Bromochloromethane	128	4.010	4.004	(0.846)	22787	2.00000	1.959
25 Dibromofluoromethane	111	4.264	4.270	(0.900)	163346	10.00000	9.740
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	72303	2.00000	1.949
28 1,1-Dichloropropene	75	4.383	4.388	(0.845)	69328	2.00000	1.967
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	60628	2.00000	2.027
31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.999)	148195	10.00000	9.896
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	45173	2.00000	1.974
30 Benzene	78	4.609	4.609	(0.889)	211357	2.00000	1.988
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	714297	10.00000	
34 Trichloroethene	130	5.135	5.135	(0.990)	57702	2.00000	1.944
38 1,2-Dichloropropane	63	5.577	5.576	(1.075)	47345	2.00000	2.035
39 Bromodichloromethane	83	5.656	5.650	(1.091)	53453	2.00000	1.967
37 Dibromomethane	93	5.486	5.486	(1.058)	20451	2.00000	1.987
40 2-Chloroethyl Vinyl Ether	63	6.391	6.170	(1.232)	16137	2.00000	1.923 (TQ)
45 4-Methyl-2-Pentanone	58	6.748	6.742	(1.301)	44061	10.00000	10.563
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	74693	2.00000	2.010
42 d8-Toluene	98	6.352	6.346	(1.225)	779369	10.00000	10.031
43 Toluene	92	6.391	6.391	(1.232)	140079	2.00000	1.974
46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	55352	2.00000	1.844
51 2-Hexanone	43	7.455	7.455	(0.975)	57946	10.00000	9.867
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	30708	2.00000	1.935
49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	54189	2.00000	1.948
44 Tetrachloroethene	166	6.708	6.708	(0.877)	62069	2.00000	2.055
48 Chlorodibromomethane	129	7.019	7.019	(0.918)	36277	2.00000	1.960
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	30425	2.00000	1.967
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	613553	10.00000	
53 Chlorobenzene	112	7.664	7.664	(1.002)	149507	2.00000	2.060
54 Ethyl Benzene	91	7.709	7.709	(1.008)	269074	2.00000	2.002
55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	49132	2.00000	2.035
56 m,p-xylene	106	7.839	7.839	(1.025)	207501	4.00000	4.070
57 o-Xylene	106	8.201	8.201	(1.072)	100296	2.00000	2.034
58 Styrene	104	8.252	8.252	(1.079)	155325	2.00000	1.930
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	253507	2.00000	2.081
59 Bromoform	173	8.247	8.247	(0.849)	18386	2.00000	2.027
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	28390	2.00000	1.868
61 4-Bromofluorobenzene	95	8.711	8.716	(1.139)	275172	10.00000	9.967
66 1,2,3-Trichloropropane	110	9.016	9.021	(0.928)	8816	2.00000	2.054
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	9039	2.00000	2.257 (Q)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
63 N-Propyl Benzene	91	8.846	8.852	(0.911)	280578	2.00000	2.052
62 Bromobenzene	156	8.790	8.790	(0.905)	59134	2.00000	2.027
67 1,3,5-Trimethyl Benzene	105	9.039	9.038	(0.931)	207836	2.00000	2.056
65 2-Chloro Toluene	91	8.965	8.965	(0.923)	163979	2.00000	1.973
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	167301	2.00000	1.983
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	180914	2.00000	2.074
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	206039	2.00000	2.020
72 S-Butyl Benzene	105	9.469	9.468	(0.975)	256800	2.00000	2.065
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	213265	2.00000	2.033
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	112005	2.00000	1.917
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	318067	10.00000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	116527	2.00000	1.959(Q)
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	179575	2.00000	1.983
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	279245	10.00000	9.943(Q)
79 1,2-Dichlorobenzene	146	10.102	10.096	(1.040)	100022	2.00000	1.952
81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	5321	2.00000	2.024
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	69482	2.00000	2.012
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	28125	2.00000	2.201
84 Naphthalene	128	11.799	11.799	(1.215)	126166	2.00000	2.065
85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	56862	2.00000	2.061

QC Flag Legend

- ? - Target compound detected outside RT window.
-) - Qualifier signal failed the ratio test.
- ! - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 01281008.d
 Lab Smp Id: 2.0 0127
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Misc Info: 10-

Calibration Date: 28-JAN-2010
 Calibration Time: 16:48
 Client Smp ID: 2 ppb
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzene	471555	235778	943110	474687	0.66
35 1,4-Difluorobenzene	723083	361542	1446166	714297	-1.22
52 d5-Chlorobenzene	624979	312490	1249958	613553	-1.83
75 d4-1,4-Dichlorobenzene	328841	164420	657682	318067	-3.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzene	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenzene	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobenzene	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/28JAN10.b/01281008.d

Date: 28-JAN-2010 16:23

Client ID: 2 ppb

Sample Info: 2.0 0127,10,10,0,

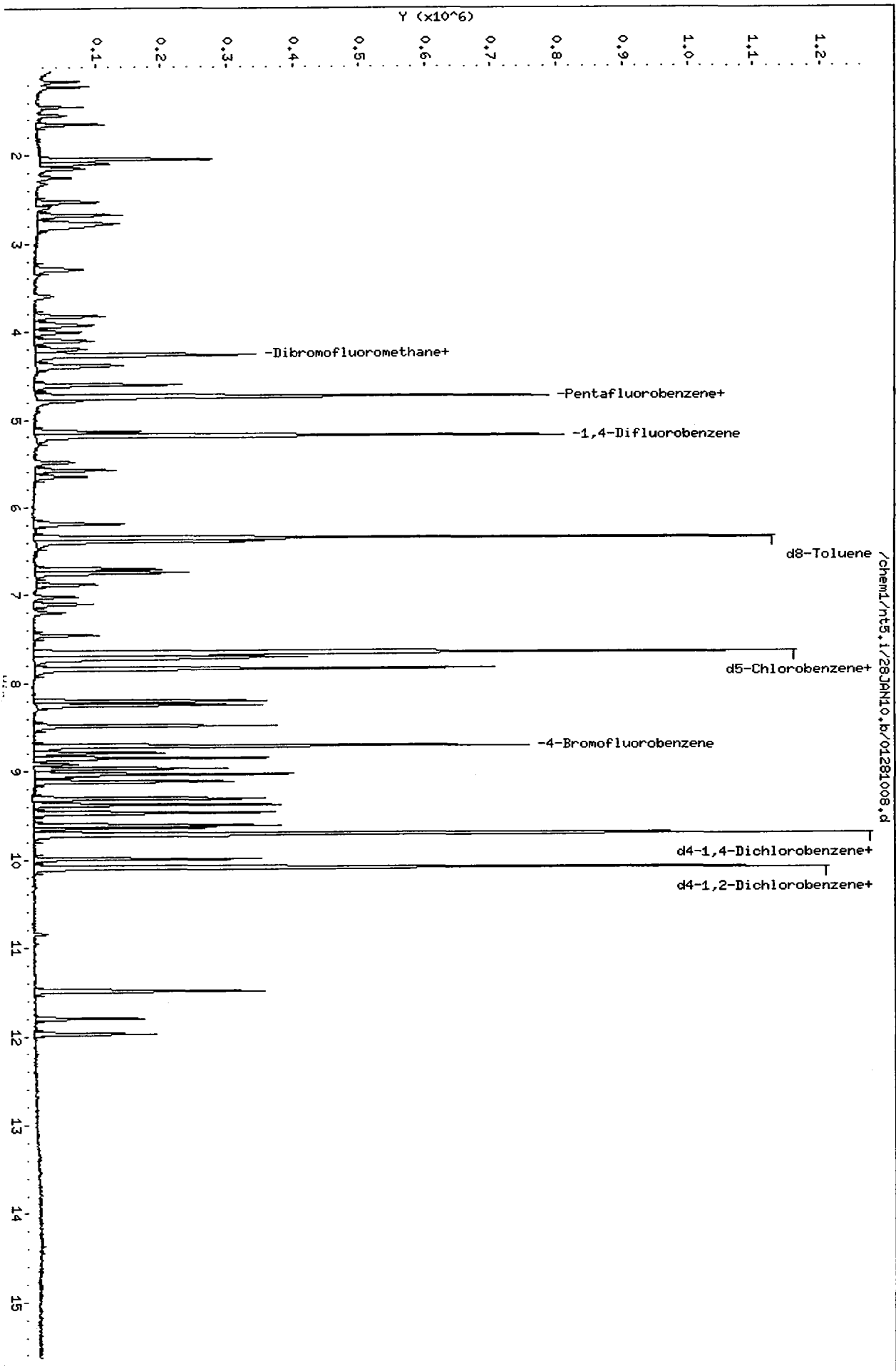
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Instrument: nt5.i

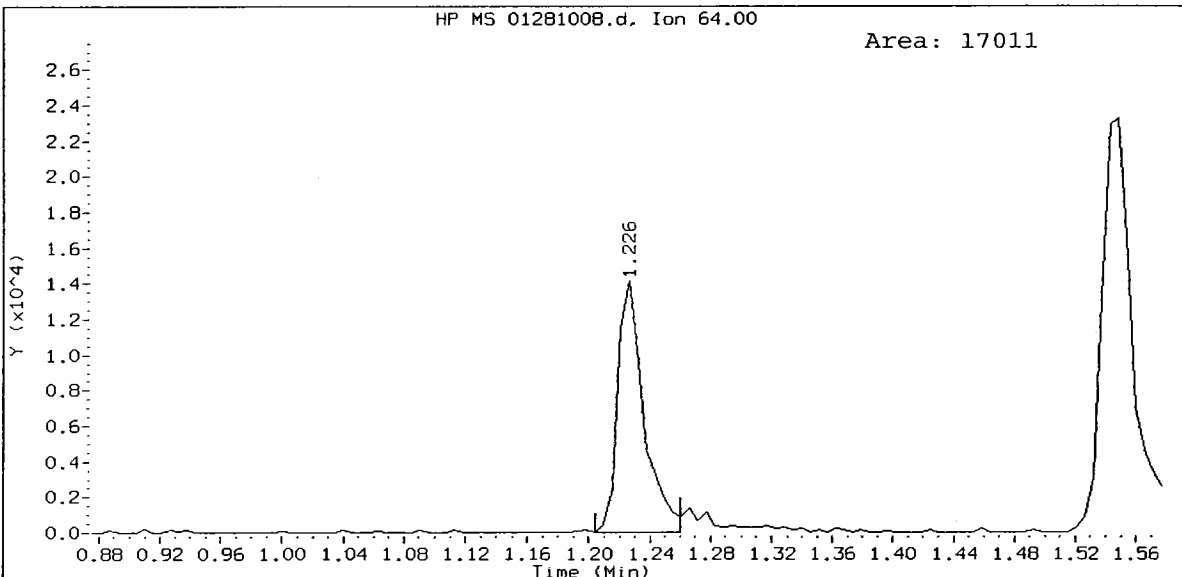
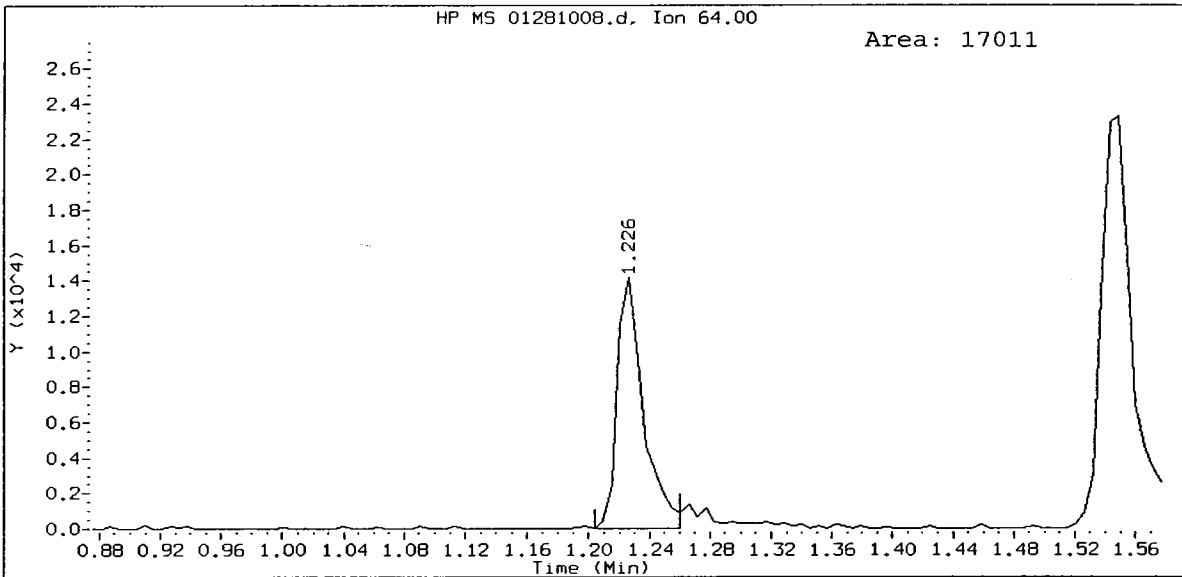
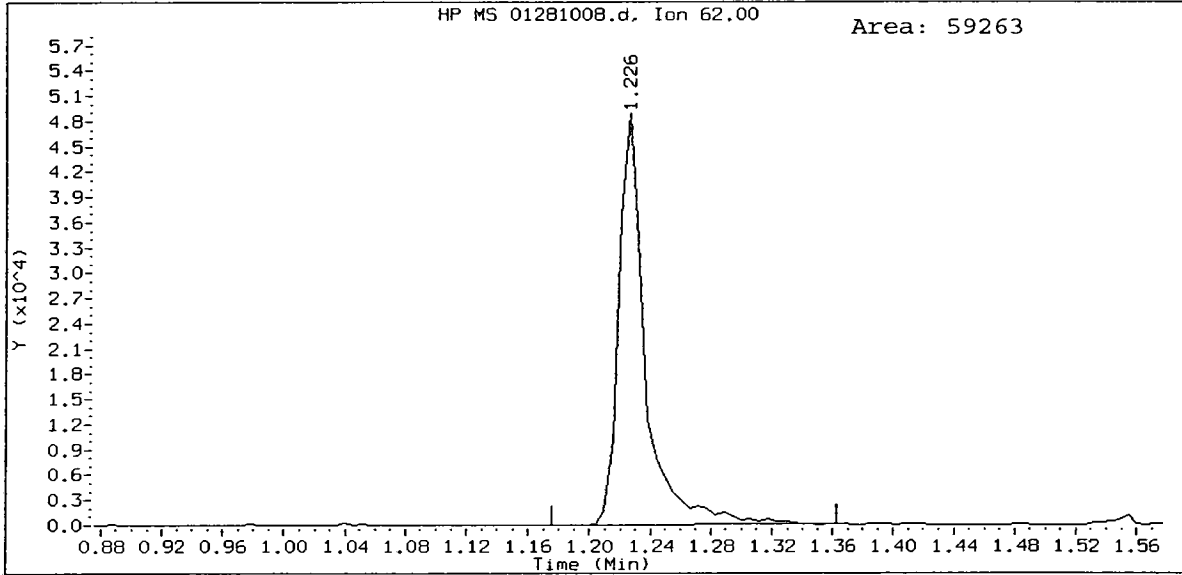
Operator: PC

Column diameter: 0.18

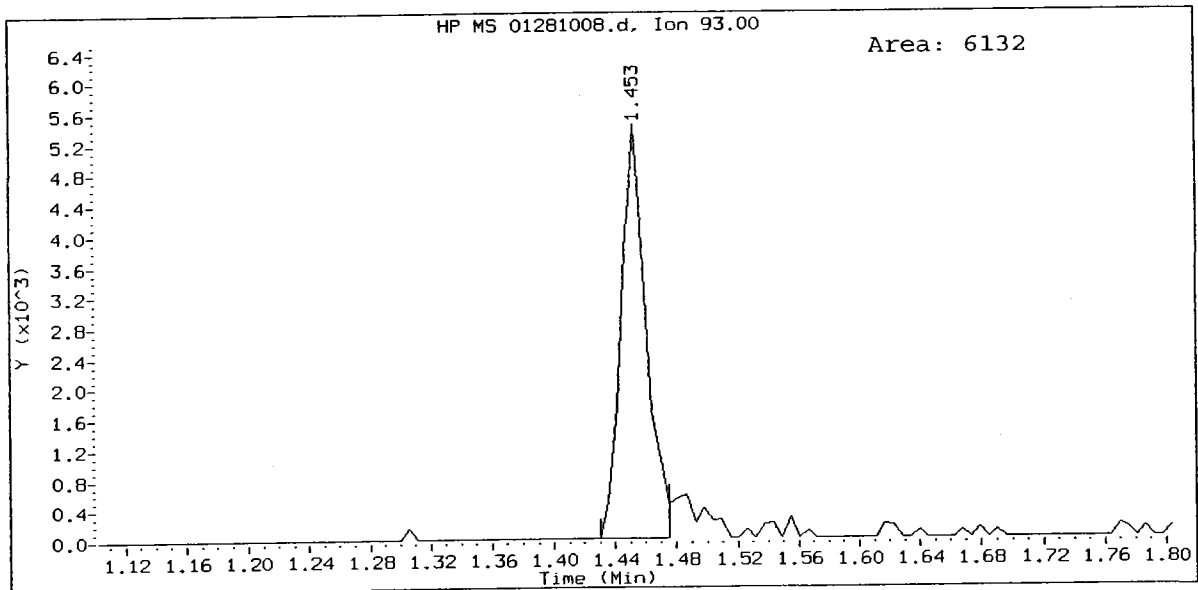
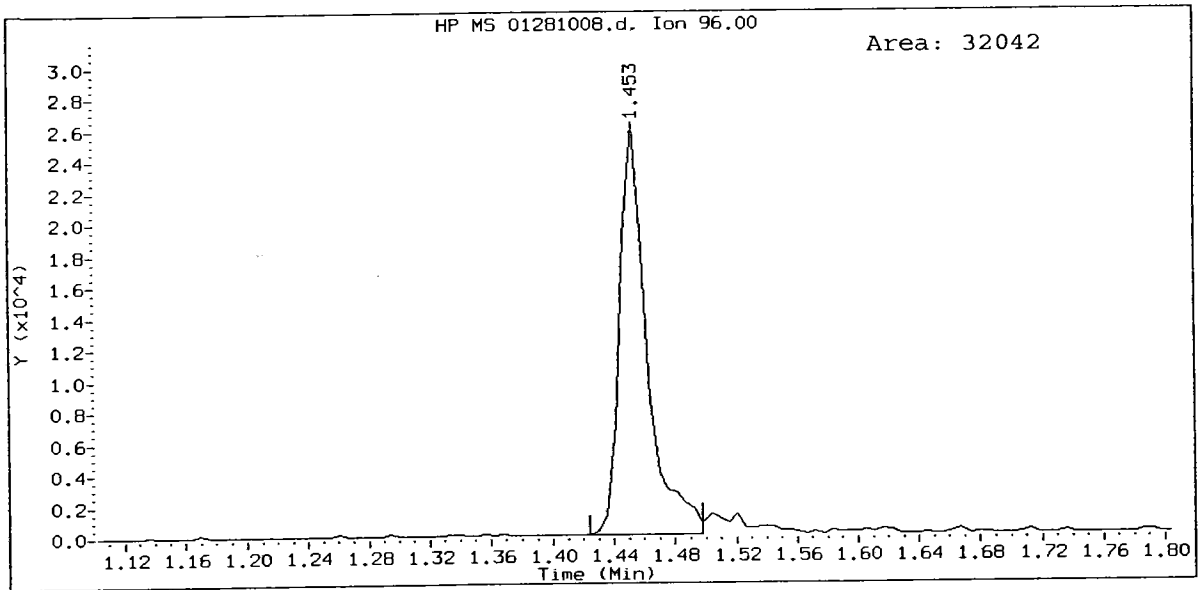
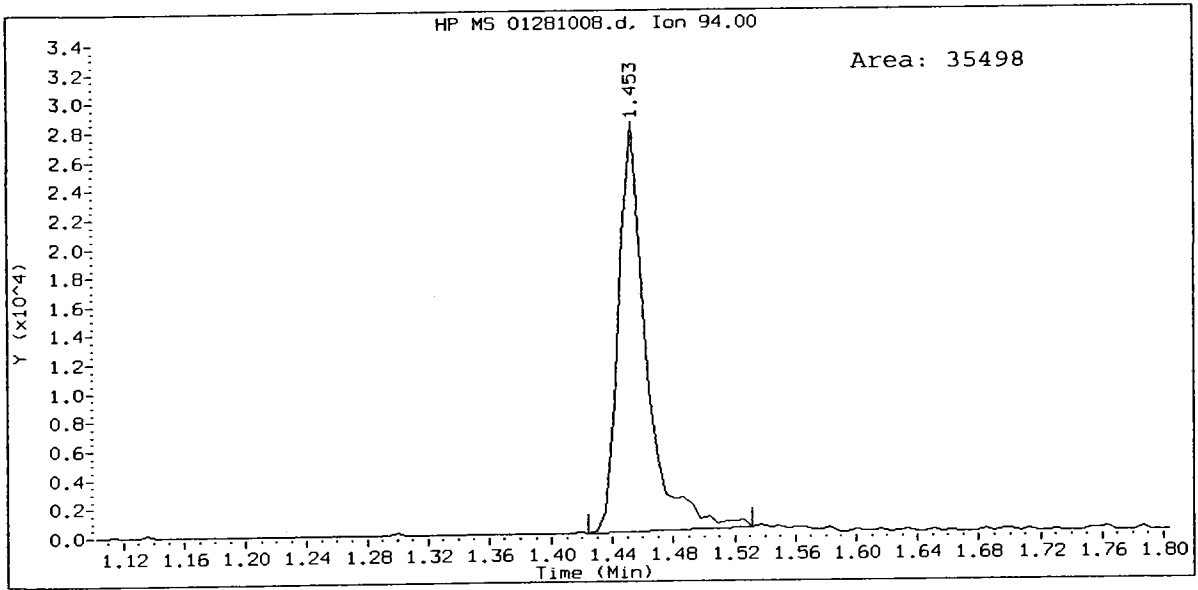
Page 5



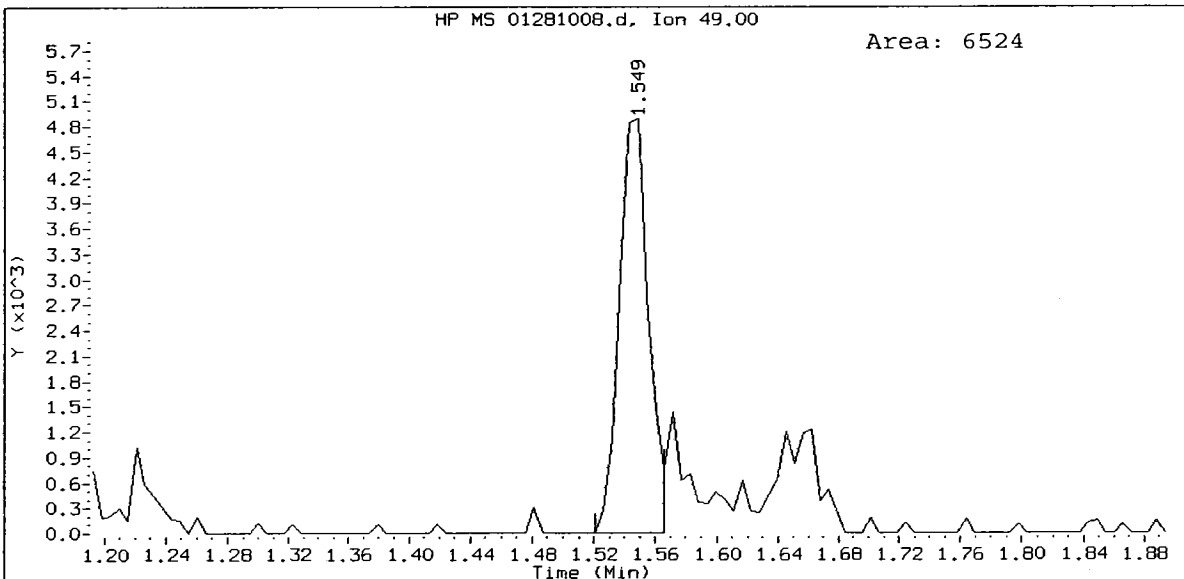
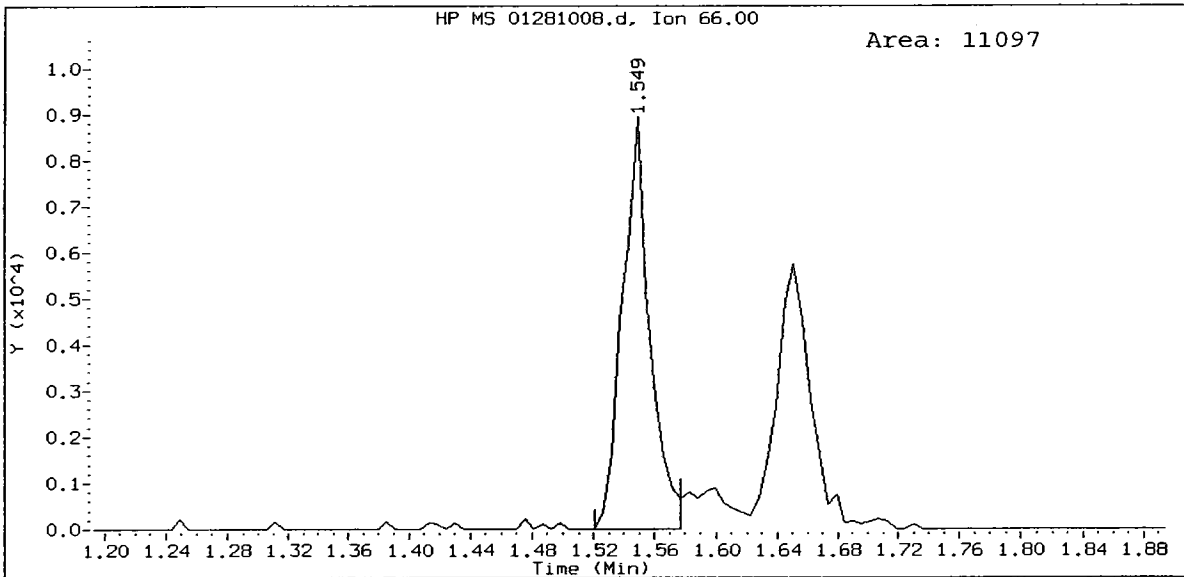
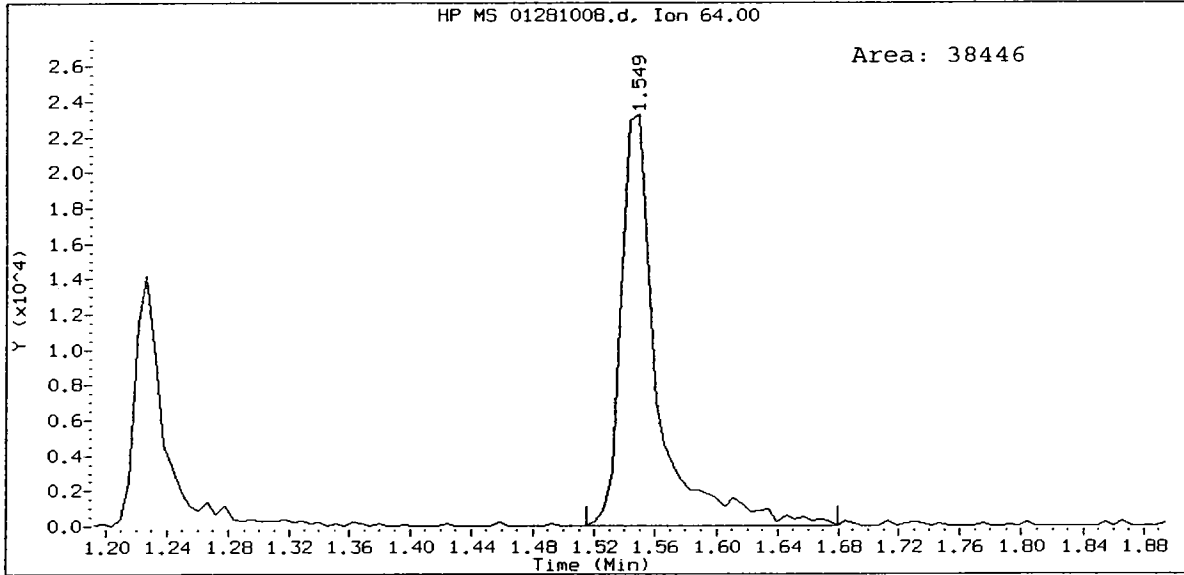
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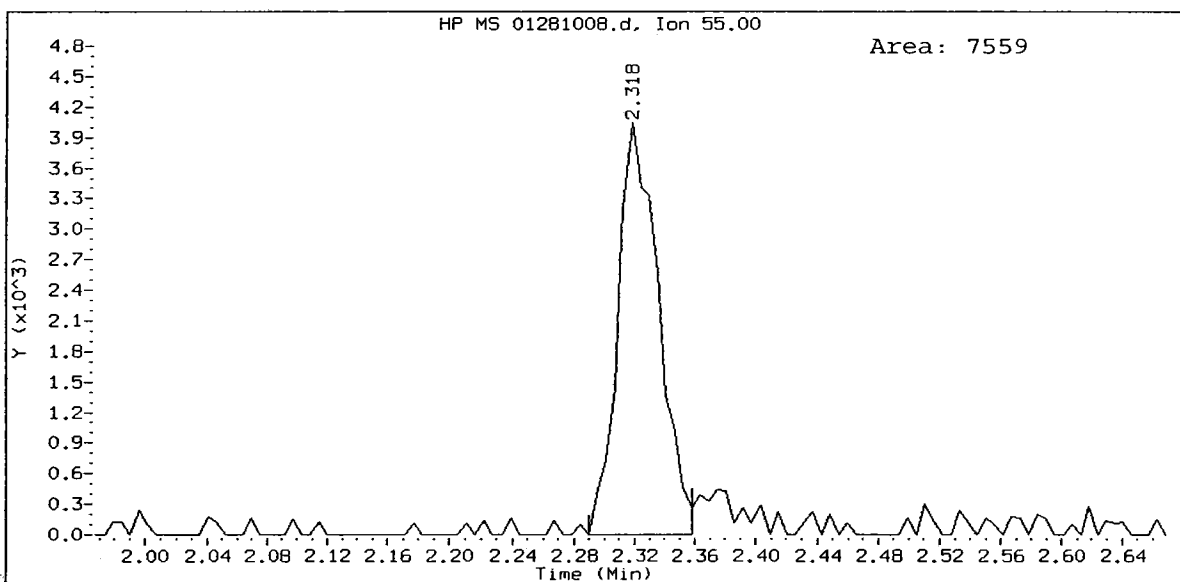
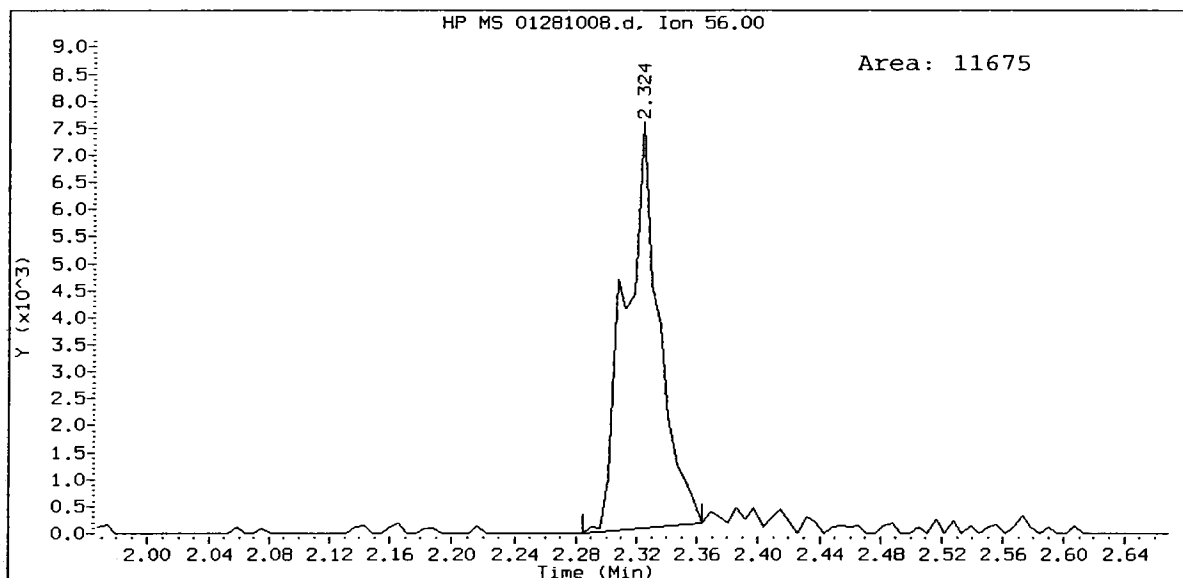
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Bromomethane Amount: 1.89



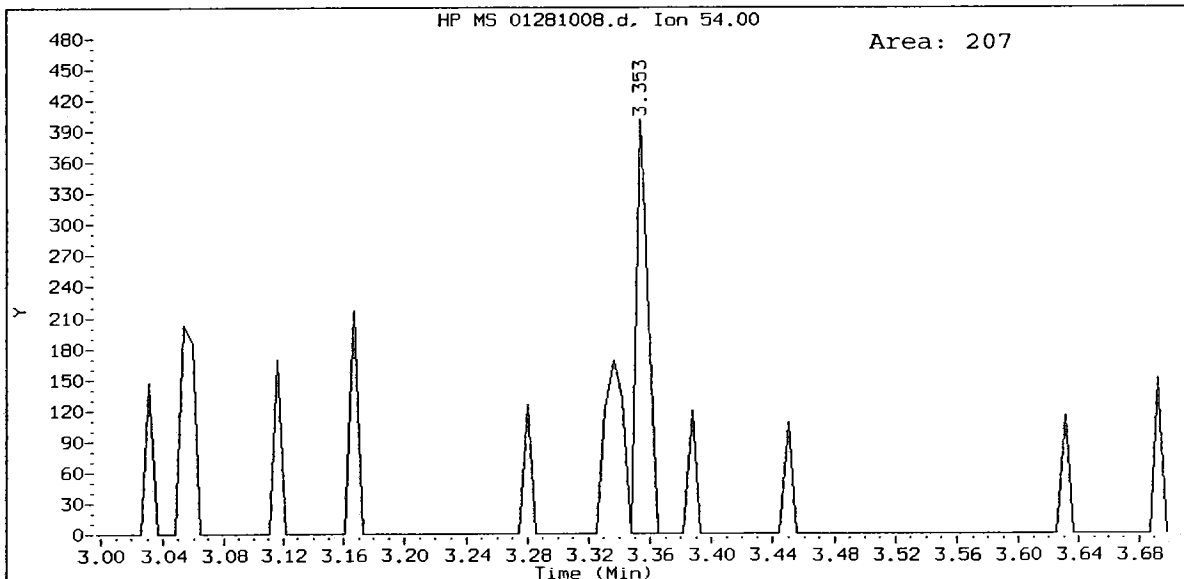
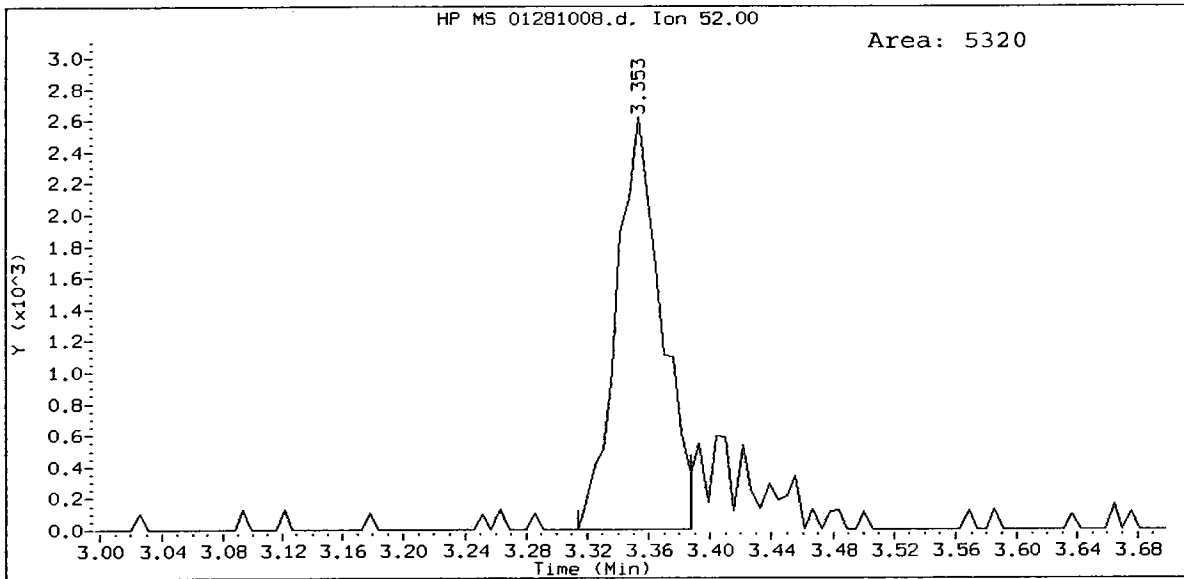
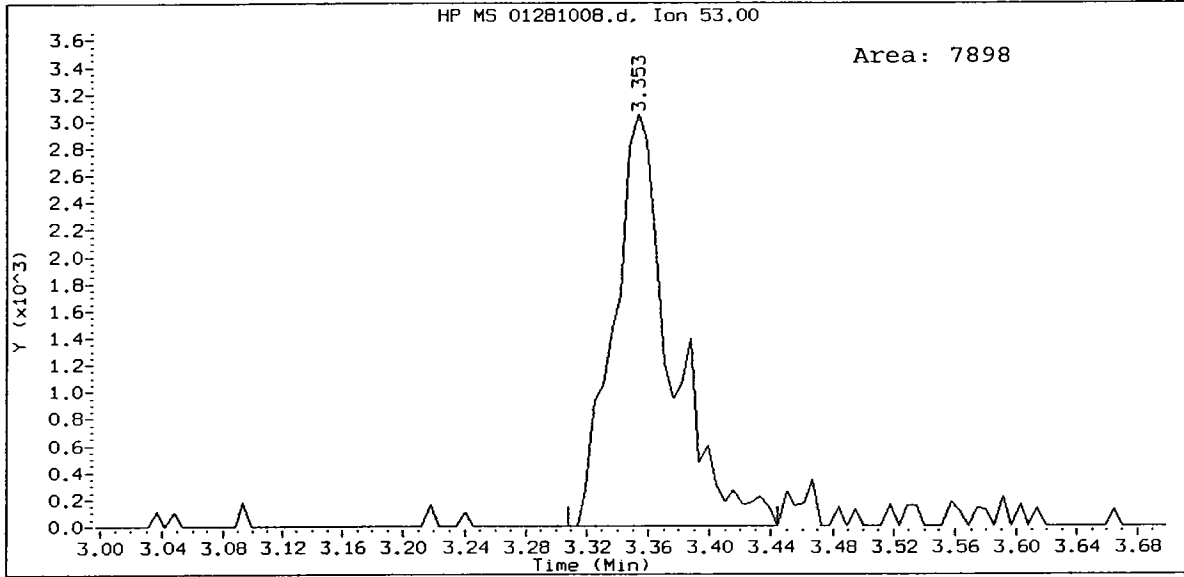
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Chloroethane Amount: 2.08



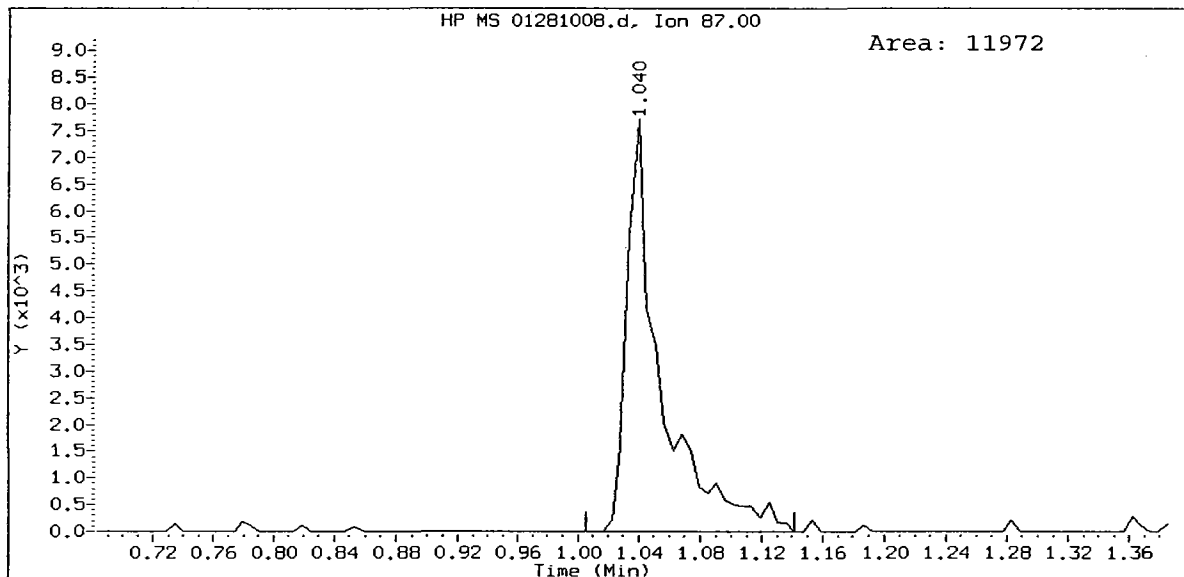
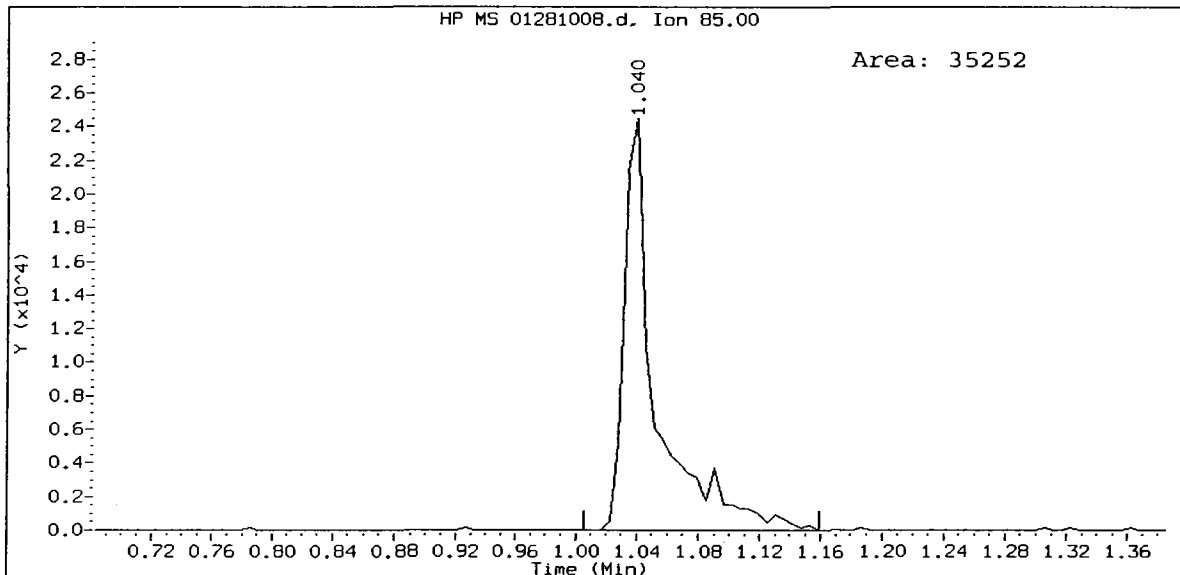
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Acrolein Amount: 9.30



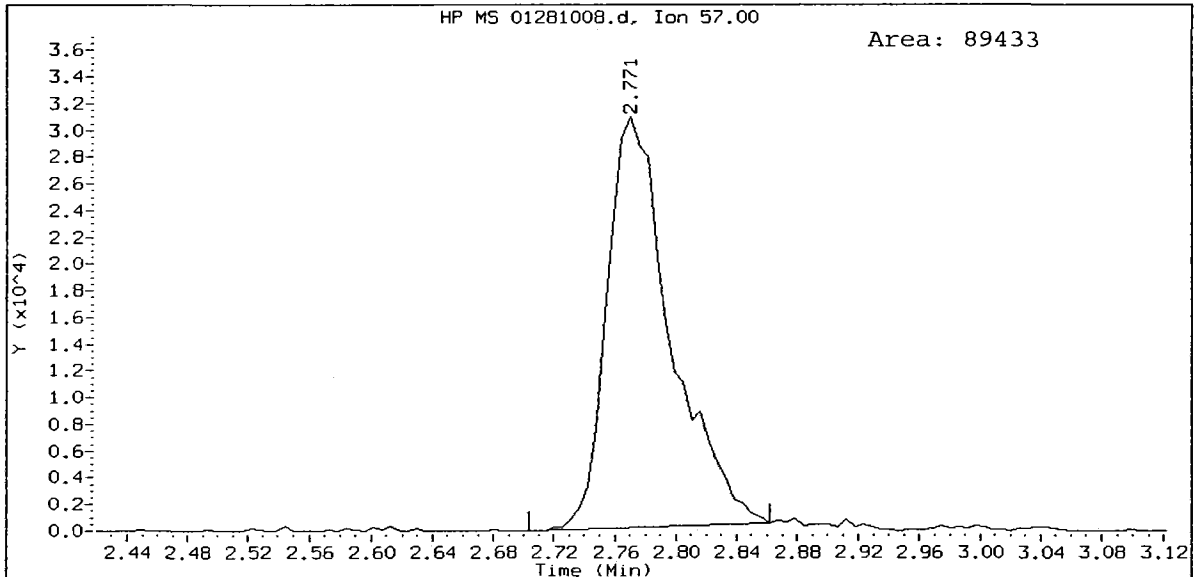
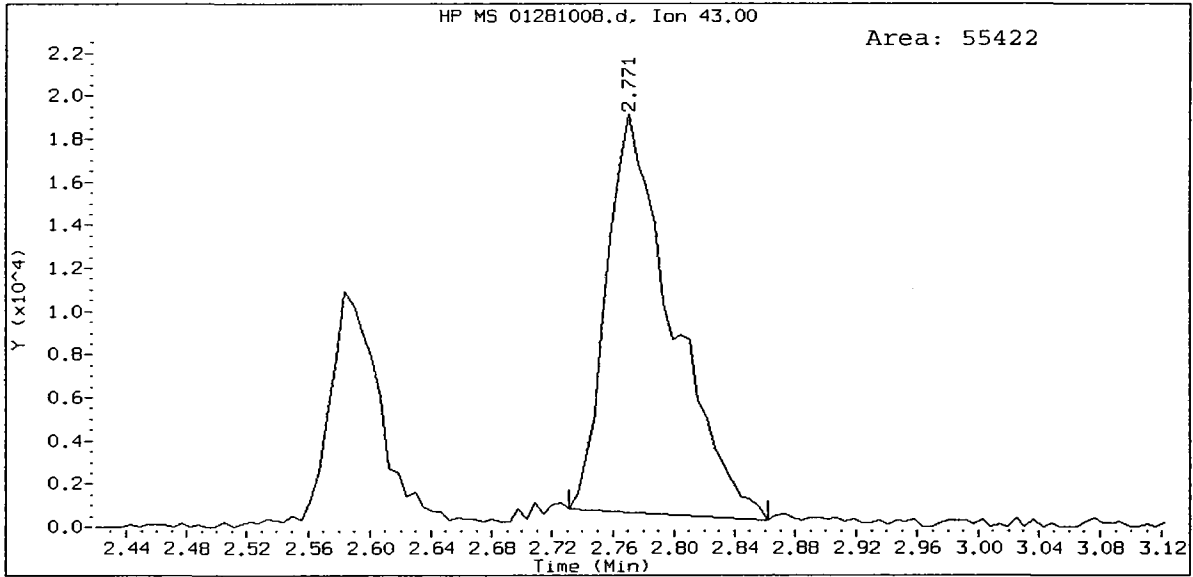
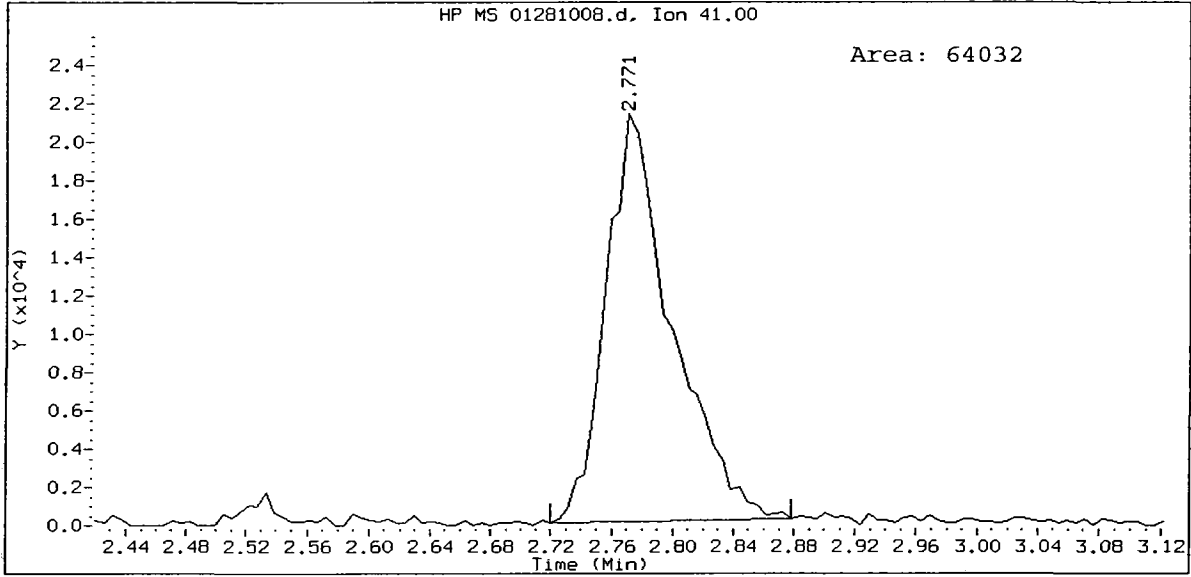
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Acrylonitrile Amount: 2.07



2.0 0127, /chem1/nt5.i/28JAN10.b/01281008.d
Dichlorodifluoromethane Amount: 2.13



2.0 0127, /chem1/nt5.i/28JAN10.b/01281008.d
Hexane Amount: 1.97



PC
1/29/10

Data File: /chem1/nt5.i/28JAN10.b/01281009.d
Report Date: 29-Jan-2010 10:36

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/28JAN10.b/01281009.d
Lab Smp Id: 10 0127 Client Smp ID: 10 ppb
Inj Date : 28-JAN-2010 16:48
Operator : PC Inst ID: nt5.i
Smp Info : 10 0127,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
Meth Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vls bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa+hex.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	168790	10.0000	10.267
172 Hexane	41	2.771	2.771	(0.585)	295946	10.0000	9.152
2 Chloromethane	50	1.164	1.164	(0.246)	236227	10.0000	10.147
3 Vinyl Chloride	62	1.226	1.226	(0.259)	283890	10.0000	10.157
4 Bromomethane	94	1.453	1.453	(0.306)	187827	10.0000	10.080
5 Chloroethane	64	1.543	1.543	(0.326)	180218	10.0000	9.818 (M)
6 Trichlorofluoromethane	101	1.651	1.651	(0.348)	337752	10.0000	10.254
12 Acrolein	56	2.318	2.318	(0.489)	54993	50.0000	44.117
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.092	2.092	(0.441)	248621	10.0000	9.916
14 Acetone	43	2.590	2.590	(0.546)	113601	50.0000	47.990
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	257795	10.0000	9.872
11 Bromoethane	108	2.250	2.250	(0.475)	186589	10.0000	9.862 (M)
10 Iodomethane	142	2.148	2.148	(0.453)	376881	10.0000	9.912 (M)
13 Methylene Chloride	84	2.527	2.527	(0.533)	252846	10.0000	9.765 (M)
18 Acrylonitrile	53	3.348	3.348	(0.706)	35894	10.0000	9.469
16 Methyl tert butyl ether	73	2.805	2.805	(0.592)	501475	10.0000	9.995

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
8 Carbon Disulfide	76	2.052	2.052	(0.433)	848321	10.0000	10.058
15 Trans-1,2-Dichloroethene	96	2.680	2.680	(0.566)	279491	10.0000	9.811
19 Vinyl Acetate	43	3.597	3.597	(0.759)	243807	10.0000	9.803
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	414231	10.0000	9.930
29 2-Butanone	72	4.405	4.405	(0.930)	73980	50.0000	49.235
21 2,2-Dichloropropane	77	3.925	3.925	(0.828)	363149	10.0000	9.907
20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	273394	10.0000	9.622
32 Pentafluorobenzene	168	4.739	4.739	(1.000)	471555	10.0000	
23 Chloroform	83	4.106	4.106	(0.866)	391942	10.0000	9.612
22 Bromochloromethane	128	4.004	4.004	(0.845)	116058	10.0000	10.044
25 Dibromofluoromethane	111	4.270	4.270	(0.901)	169690	10.0000	10.185
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	372422	10.0000	10.105
28 1,1-Dichloropropene	75	4.388	4.388	(0.846)	340281	10.0000	9.537
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	307755	10.0000	10.162
31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	152680	10.0000	10.263
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	230339	10.0000	9.945
30 Benzene	78	4.609	4.609	(0.889)	1049588	10.0000	9.753
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	723083	10.0000	
34 Trichloroethene	130	5.135	5.135	(0.990)	288018	10.0000	9.587
38 1,2-Dichloropropane	63	5.576	5.576	(1.075)	226664	10.0000	9.622
39 Bromodichloromethane	83	5.650	5.650	(1.089)	265450	10.0000	9.648
37 Dibromomethane	93	5.486	5.486	(1.058)	98789	10.0000	9.479
40 2-Chloroethyl Vinyl Ether	63	6.170	6.170	(1.190)	82326	10.0000	9.694 (H)
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	206567	50.0000	48.921
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	363776	10.0000	9.668
42 d8-Toluene	98	6.346	6.346	(1.224)	792012	10.0000	10.069
43 Toluene	92	6.391	6.391	(1.232)	697808	10.0000	9.715
46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	288148	10.0000	9.482
51 2-Hexanone	43	7.455	7.455	(0.975)	288442	50.0000	48.220
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	156798	10.0000	9.762
49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	276103	10.0000	9.743
44 Tetrachloroethene	166	6.708	6.708	(0.877)	301801	10.0000	9.808
48 Chlorodibromomethane	129	7.019	7.019	(0.918)	184910	10.0000	9.807
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	148529	10.0000	9.487
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	624979	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.002)	732964	10.0000	9.913
54 Ethyl Benzene	91	7.709	7.709	(1.008)	1344274	10.0000	9.817 (M)
55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	236540	10.0000	9.618
56 m,p-xylene	106	7.839	7.839	(1.025)	1010347	20.0000	19.453 (Q)
57 o-Xylene	106	8.201	8.201	(1.072)	498733	10.0000	9.929
58 Styrene	104	8.252	8.252	(1.079)	797904	10.0000	9.734
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1229210	10.0000	9.762
59 Bromoform	173	8.247	8.247	(0.849)	89692	10.0000	9.565
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	145623	10.0000	9.267
61 4-Bromofluorobenzene	95	8.716	8.716	(1.140)	281496	10.0000	10.009
66 1,2,3-Trichloropropane	110	9.021	9.021	(0.929)	41405	10.0000	9.329
68 Trans-1,4-Dichloro 2-Butene	53	9.072	9.072	(0.934)	40974	10.0000	9.898

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	1359835	10.0000	9.617
62 Bromobenzene	156	8.790	8.790	(0.905)	289640	10.0000	9.602
67 1,3,5-Trimethyl Benzene	105	9.038	9.038	(0.931)	992228	10.0000	9.496
65 2-Chloro Toluene	91	8.965	8.965	(0.923)	824350	10.0000	9.595
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	836054	10.0000	9.585
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	853463	10.0000	9.462
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	1016153	10.0000	9.637
72 S-Butyl Benzene	105	9.468	9.468	(0.975)	1203522	10.0000	9.359
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	1019243	10.0000	9.399
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	548843	10.0000	9.088
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	328841	10.0000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	550278	10.0000	8.950
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	845559	10.0000	9.032
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	287961	10.0000	9.918(Q)
79 1,2-Dichlorobenzene	146	10.096	10.096	(1.040)	487532	10.0000	9.201
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	22908	10.0000	8.429
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	328573	10.0000	9.202
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	104361	10.0000	7.901
84 Naphthalene	128	11.799	11.799	(1.215)	602676	10.0000	9.543
85 1,2,3-Trichlorobenzene	180	11.974	11.974	(1.233)	256889	10.0000	9.007

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- I - Compound response manually integrated.
- A - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i	Calibration Date: 28-JAN-2010
Lab File ID: 01281009.d	Calibration Time: 16:48
Lab Smp Id: 10 0127	Client Smp ID: 10 ppb
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m	
Misc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	471555	0.00
35 1,4-Difluorobenze	723083	361542	1446166	723083	0.00
52 d5-Chlorobenzene	624979	312490	1249958	624979	0.00
75 d4-1,4-Dichlorobe	328841	164420	657682	328841	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

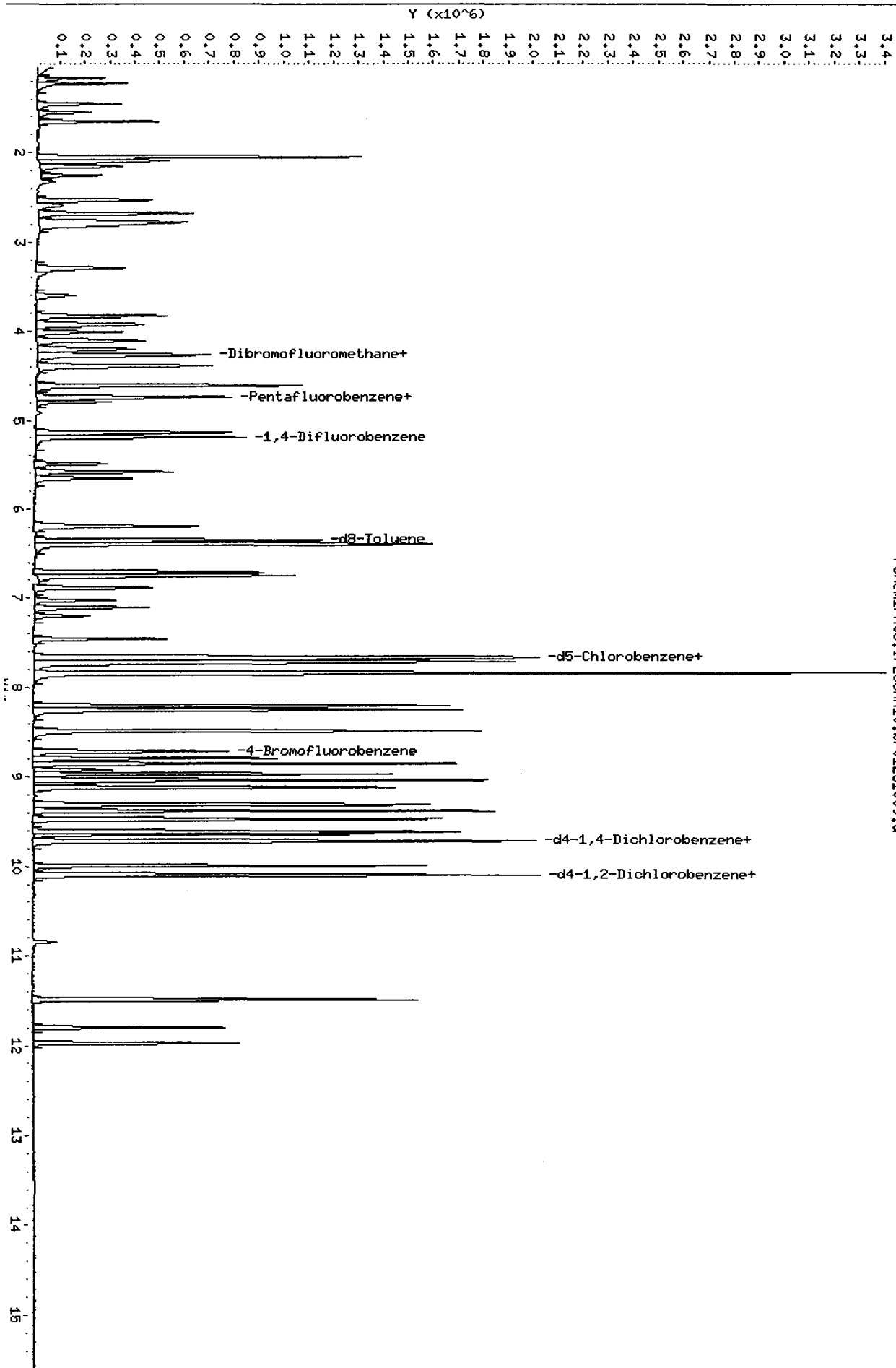
Instrument: nt5.i

Operator: PC

Column diameter: 0.18

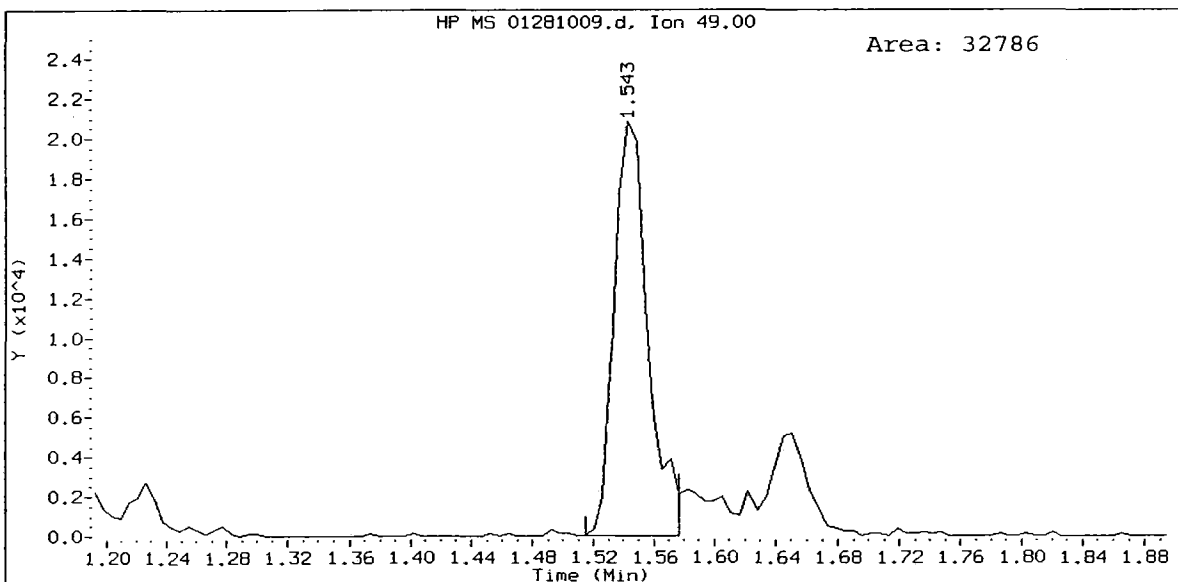
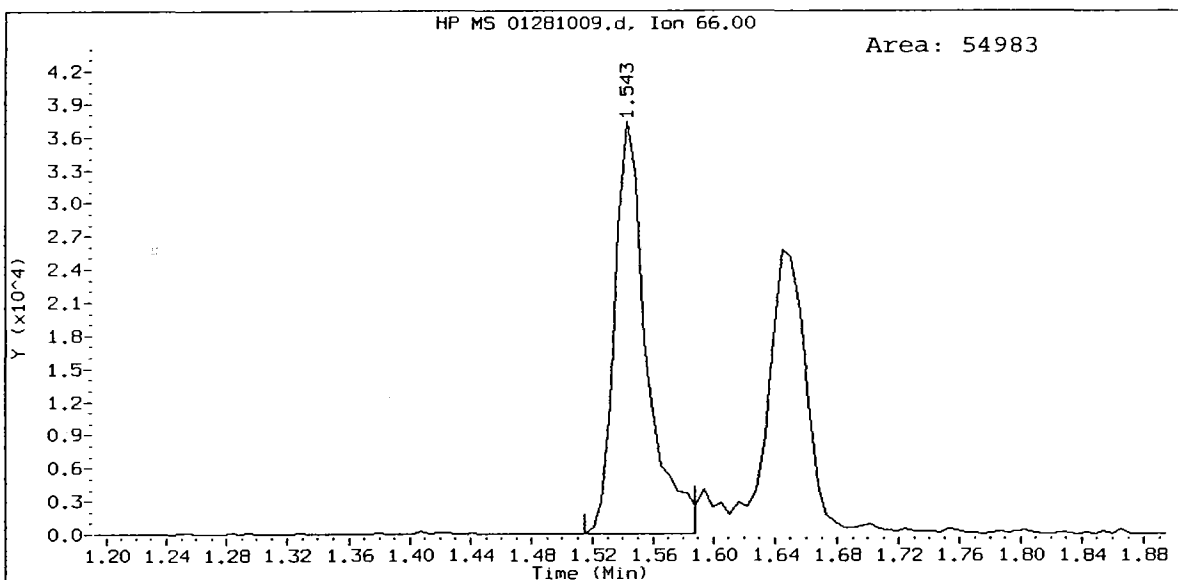
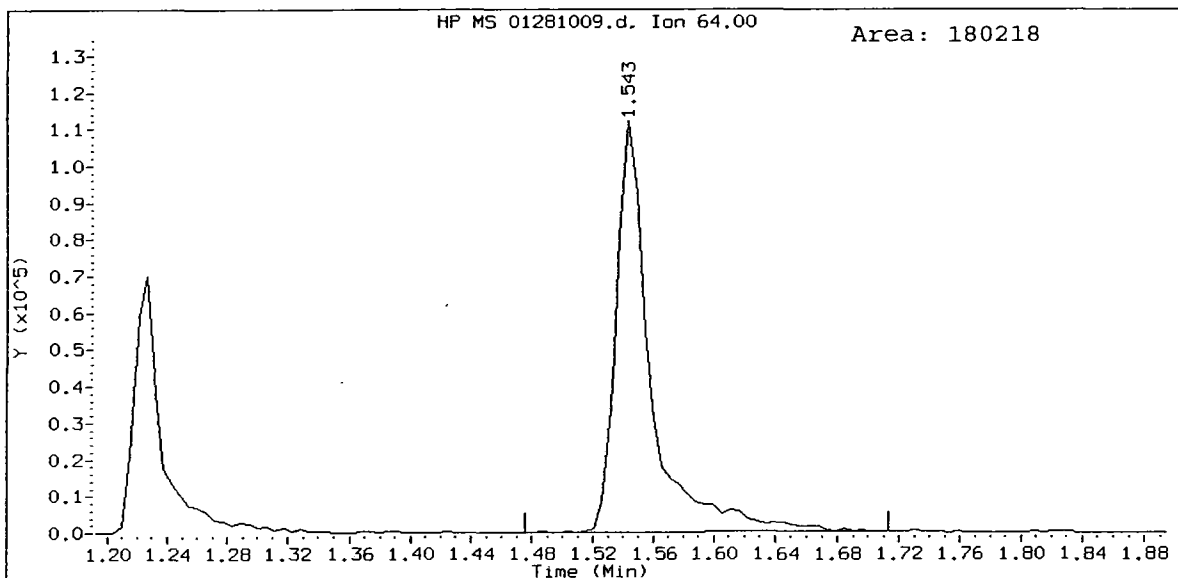
Column phase: RTXVMS

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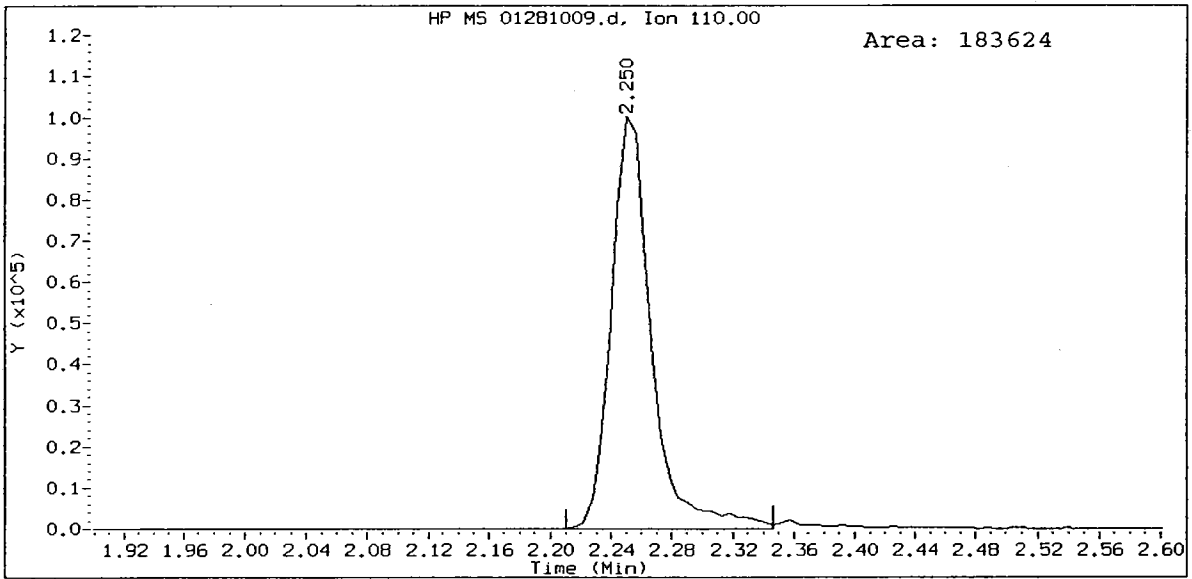
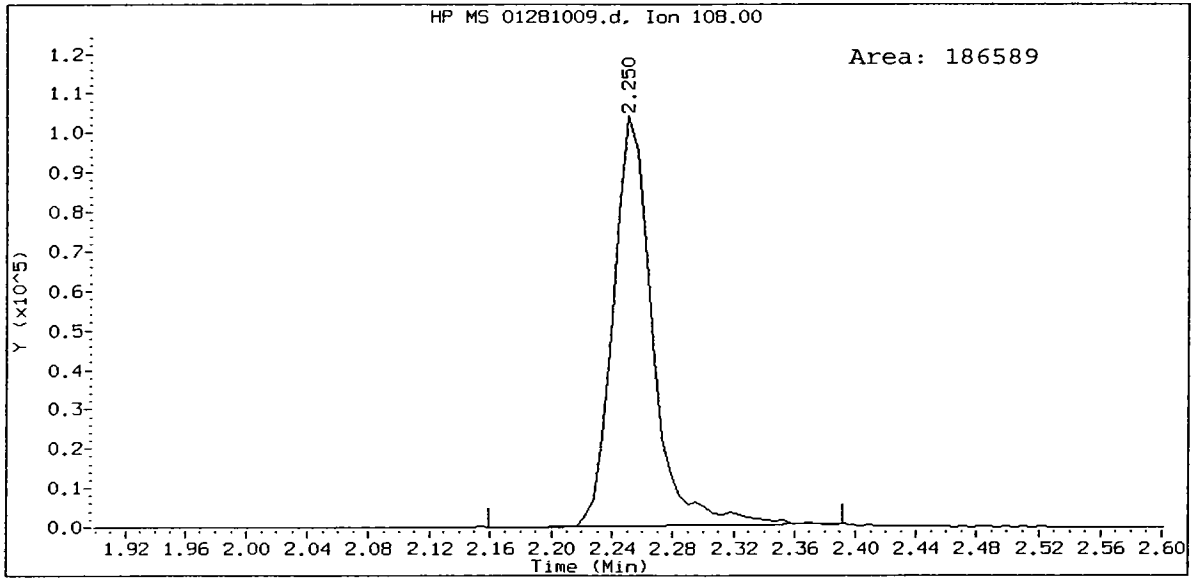


01281009

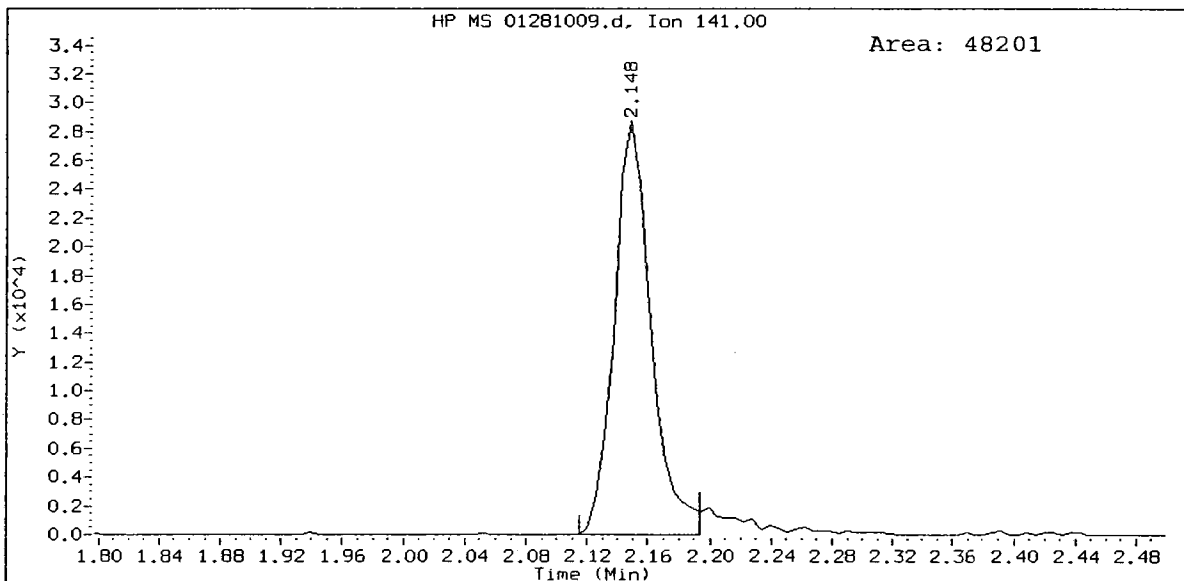
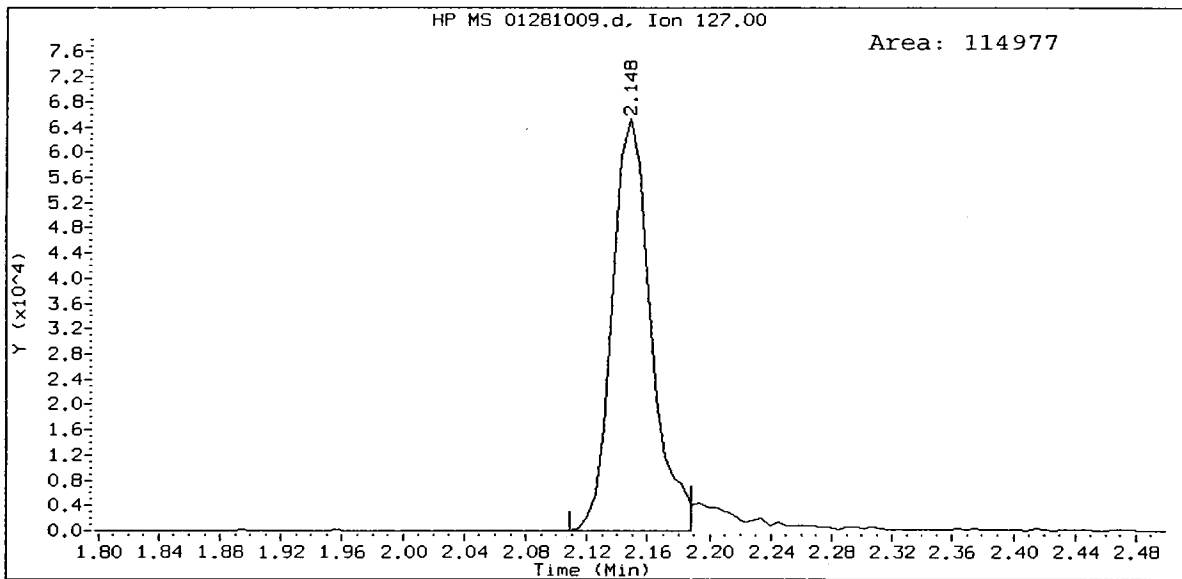
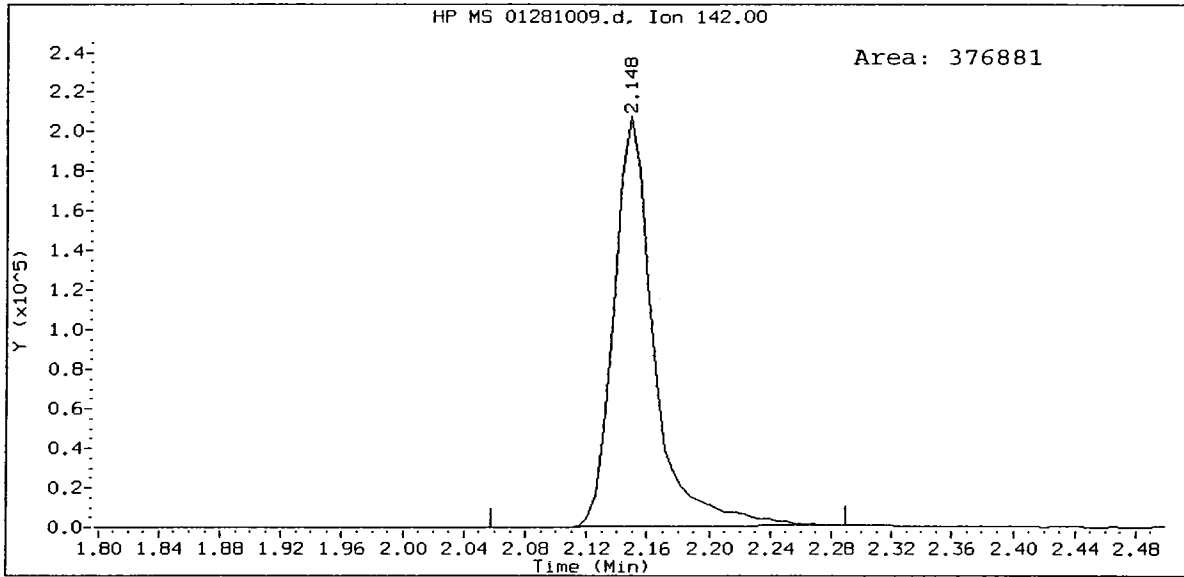
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Chloroethane Amount: 9.82



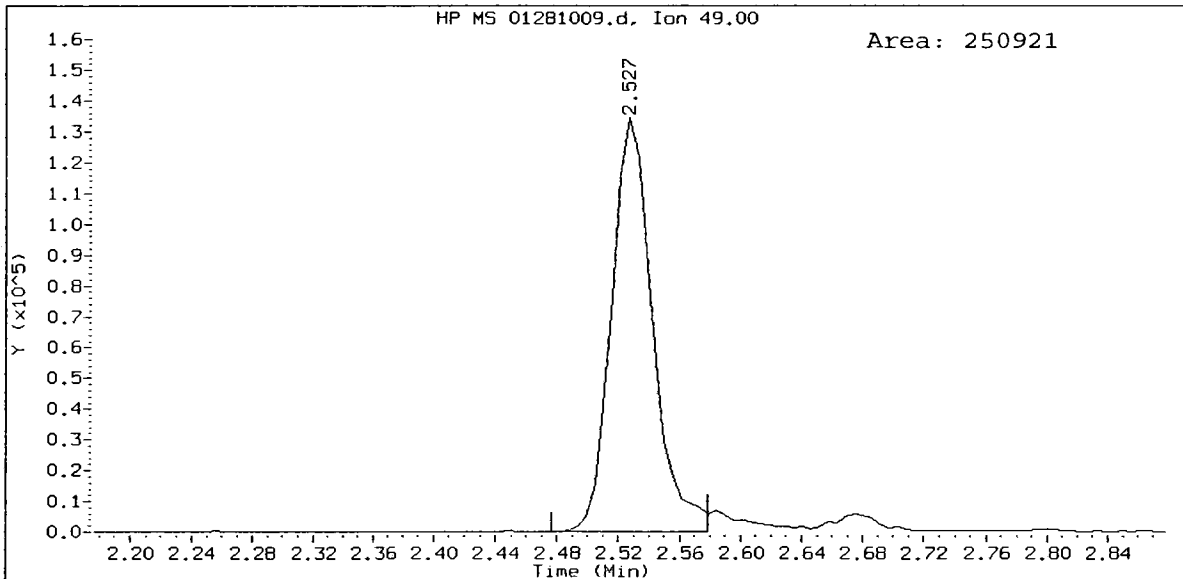
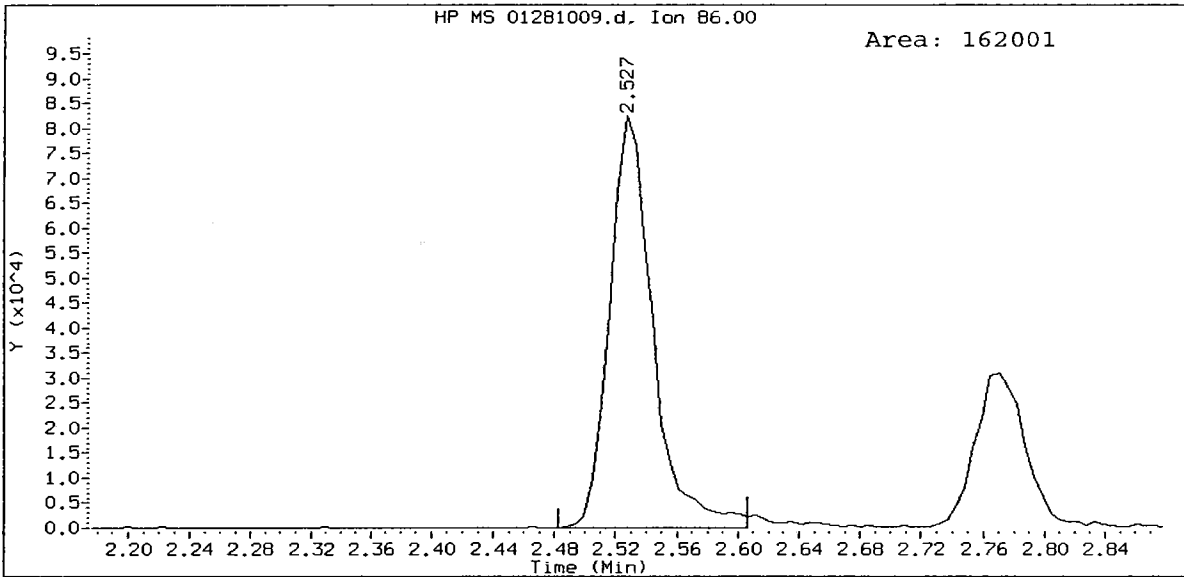
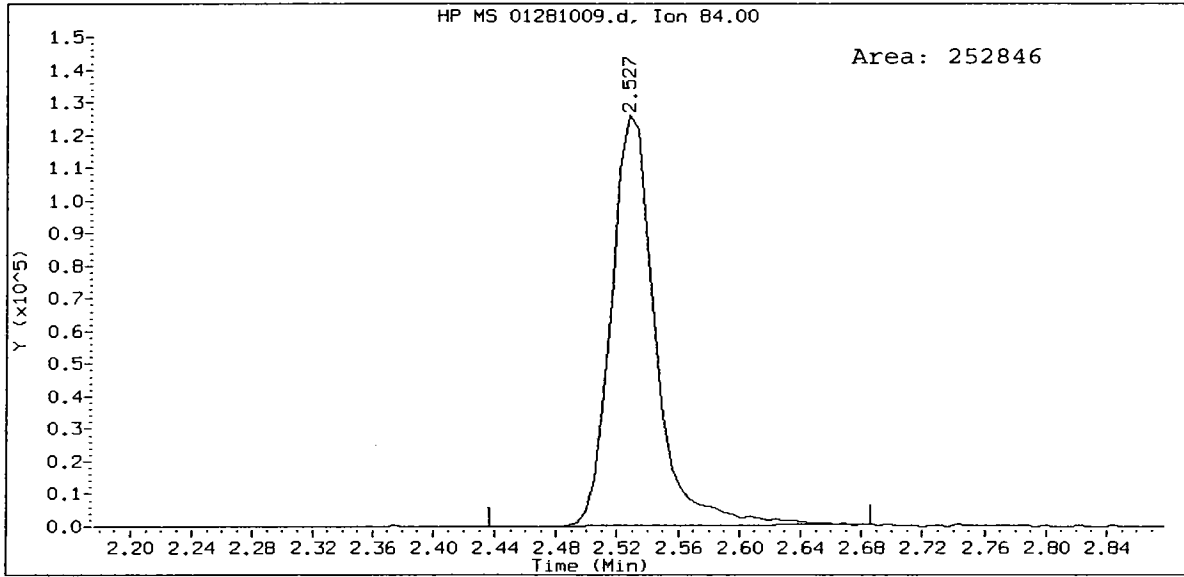
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Bromoethane Amount: 9.86



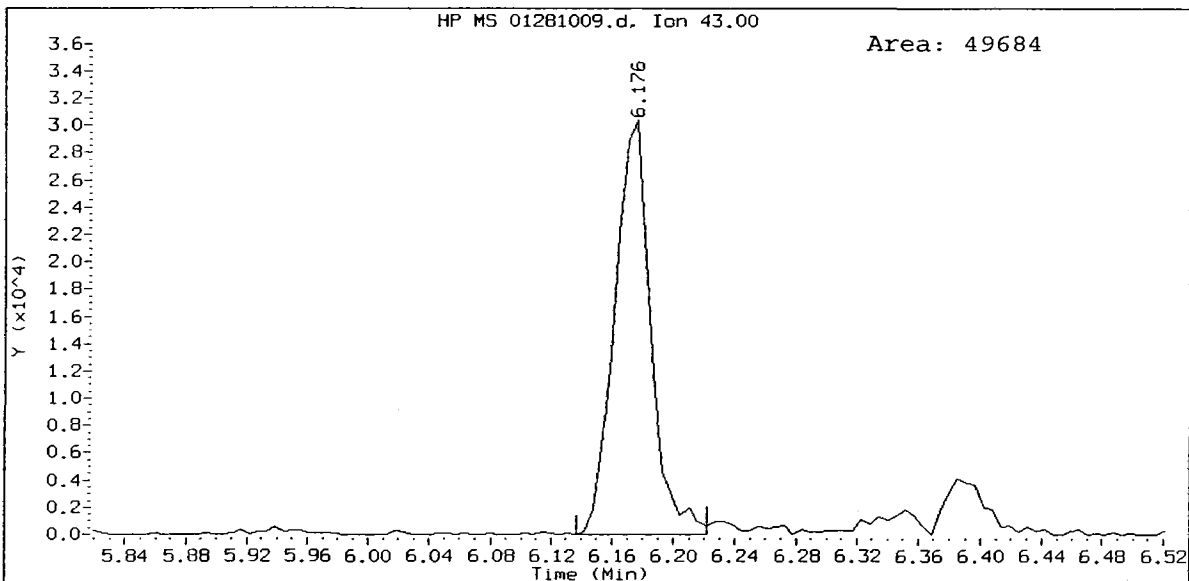
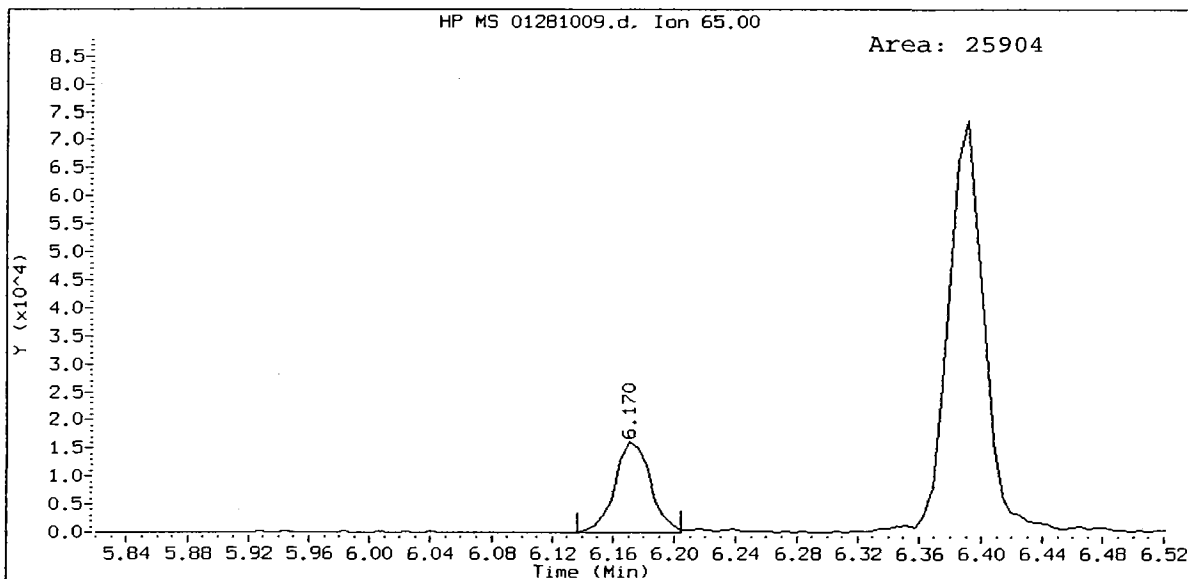
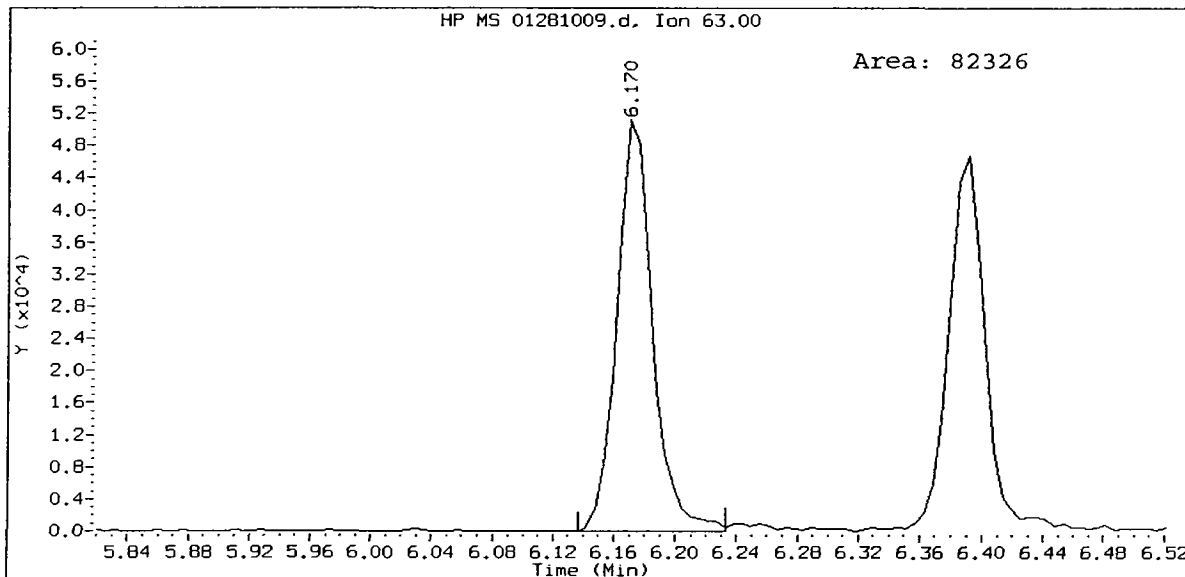
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Iodomethane Amount: 9.91



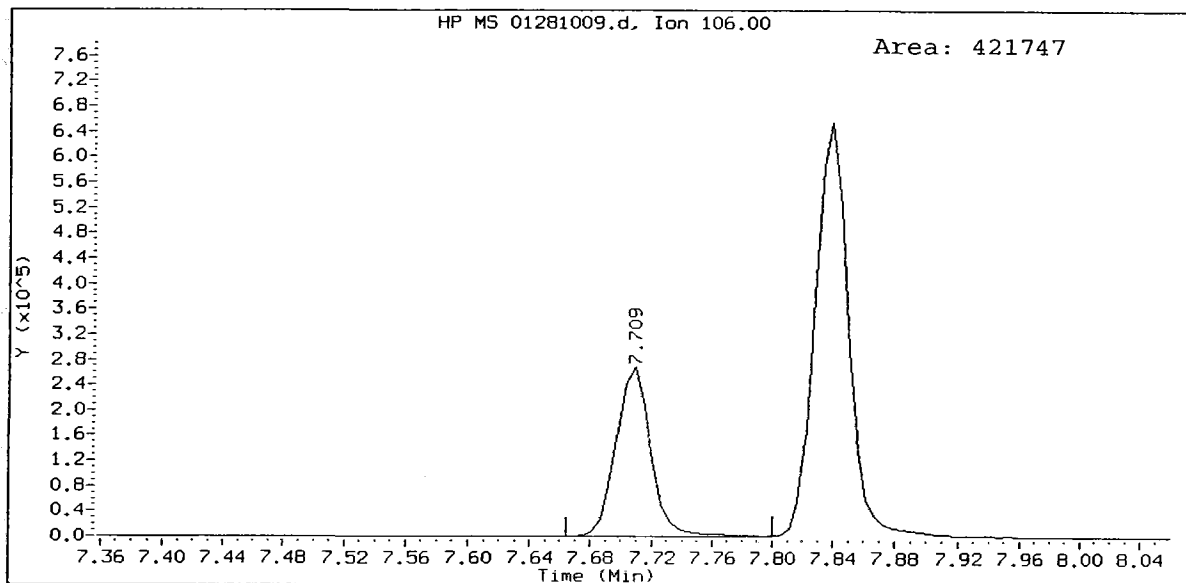
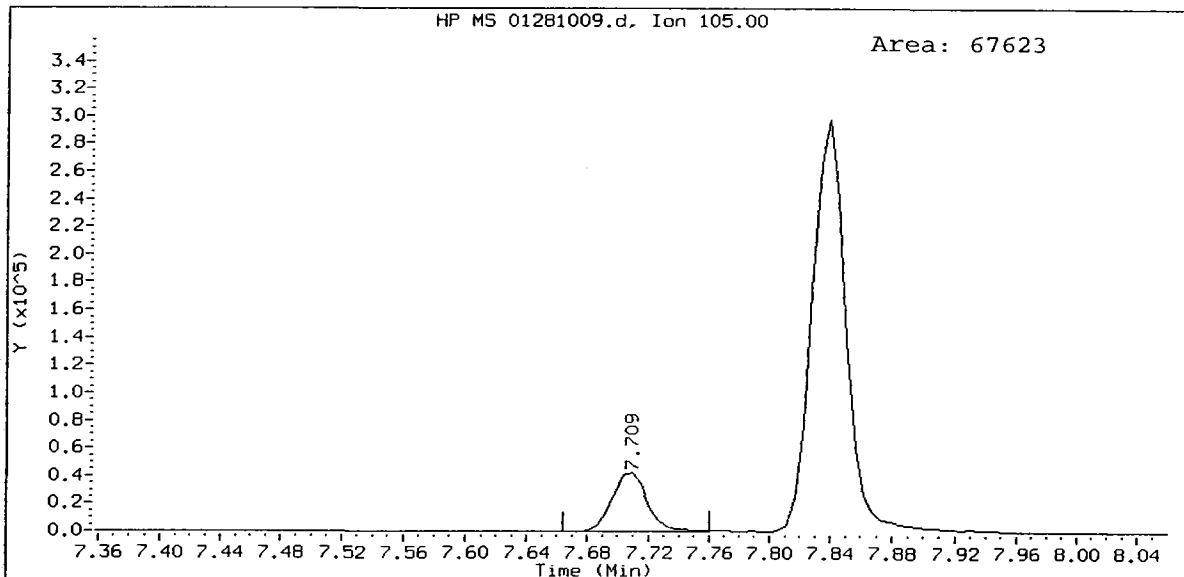
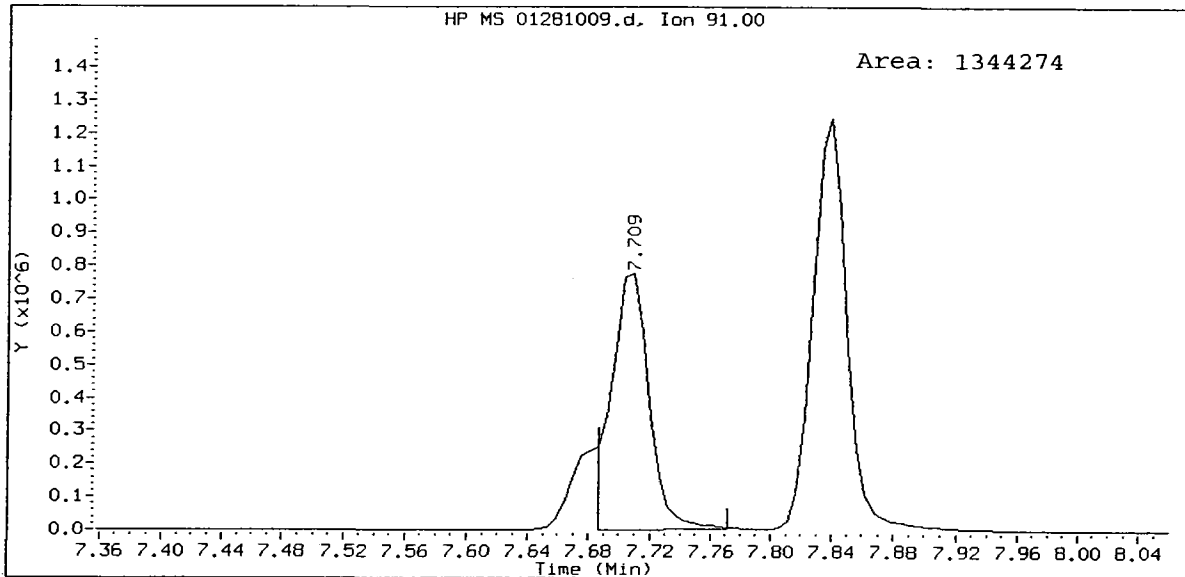
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Methylene Chloride Amount: 9.76



10 0127, /chem1/nt5.i/28JAN10.b/01281009.d
2-Chloroethyl Vinyl Ether Amount: 9.69



10 0127, /chem1/nt5.i/28JAN10.b/01281009.d
Ethyl Benzene Amount: 9.82



PC
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Data File: /chem1/nt5.i/28JAN10.b/01281010.d
Report Date: 29-Jan-2010 10:36

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/28JAN10.b/01281010.d
Lab Smp Id: 20 0127 Client Smp ID: 20 ppb
Inj Date : 28-JAN-2010 17:14
Operator : PC Inst ID: nt5.i
Smp Info : 20 0127,10,10,0,
Disc Info : 10-
Comment :
Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
Meth Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vial bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa+hex.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Compound Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	345935	20.0000	20.568
172 Hexane	41	2.771	2.771	(0.584)	597198	20.0000	18.051(M)
2 Chloromethane	50	1.164	1.164	(0.245)	476193	20.0000	19.993
3 Vinyl Chloride	62	1.226	1.226	(0.258)	566213	20.0000	19.801
4 Bromomethane	94	1.453	1.453	(0.306)	400141	20.0000	20.990
5 Chloroethane	64	1.543	1.543	(0.325)	363549	20.0000	19.358
6 Trichlorofluoromethane	101	1.651	1.651	(0.348)	679237	20.0000	20.157
12 Acrolein	56	2.318	2.318	(0.489)	119822	100.000	93.954
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.092	2.092	(0.441)	515247	20.0000	20.086
14 Acetone	43	2.584	2.590	(0.545)	233721	100.000	96.505
7 1,1-Dichloroethene	96	2.041	2.041	(0.430)	516666	20.0000	19.339
11 Bromoethane	108	2.250	2.250	(0.474)	366274	20.0000	18.921
10 Iodomethane	142	2.148	2.148	(0.453)	759776	20.0000	19.530
13 Methylene Chloride	84	2.528	2.527	(0.533)	519478	20.0000	19.609
18 Acrylonitrile	53	3.353	3.348	(0.707)	73043	20.0000	18.834
16 Methyl tert butyl ether	73	2.805	2.805	(0.591)	1005617	20.0000	19.591

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
8 Carbon Disulfide	76	2.052	2.052	(0.433)	1732937	20.0000	20.083
15 Trans-1,2-Dichloroethene	96	2.675	2.680	(0.564)	573245	20.0000	19.669
19 Vinyl Acetate	43	3.597	3.597	(0.758)	502869	20.0000	19.763
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	835617	20.0000	19.579
29 2-Butanone	72	4.400	4.405	(0.927)	149247	100.000	97.084
21 2,2-Dichloropropane	77	3.925	3.925	(0.827)	732916	20.0000	19.542
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.807)	567496	20.0000	19.522
23 Pentafluorobenzene	168	4.745	4.739	(1.000)	482450	10.0000	
23 Chloroform	83	4.106	4.106	(0.865)	819622	20.0000	19.647
22 Bromochloromethane	128	4.004	4.004	(0.844)	235212	20.0000	19.896
25 Dibromofluoromethane	111	4.270	4.270	(0.900)	168589	10.0000	9.891
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.899)	747393	20.0000	19.820
28 1,1-Dichloropropene	75	4.389	4.388	(0.846)	695216	20.0000	19.341
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	634591	20.0000	20.800
31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	150016	10.0000	9.856
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	454496	20.0000	19.480
30 Benzene	78	4.609	4.609	(0.889)	2140550	20.0000	19.744
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	728422	10.0000	
34 Trichloroethene	130	5.135	5.135	(0.990)	605349	20.0000	20.003
38 1,2-Dichloropropane	63	5.582	5.576	(1.076)	466584	20.0000	19.662
39 Bromodichloromethane	83	5.650	5.650	(1.089)	556386	20.0000	20.075
37 Dibromomethane	93	5.486	5.486	(1.058)	209246	20.0000	19.931
40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	173048	20.0000	20.227 (H)
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	418941	100.000	98.490
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	757857	20.0000	19.994
42 d8-Toluene	98	6.346	6.346	(1.224)	789982	10.0000	9.970
43 Toluene	92	6.391	6.391	(1.232)	1416652	20.0000	19.579
46 Trans 1,3-Dichloropropene	75	6.759	6.753	(1.303)	590710	20.0000	19.296
51 2-Hexanone	43	7.455	7.455	(0.974)	604350	100.000	98.984
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	324151	20.0000	20.034
49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	568004	20.0000	19.638
44 Tetrachloroethene	166	6.708	6.708	(0.877)	602228	20.0000	19.174
48 Chlorodibromomethane	129	7.019	7.019	(0.917)	374229	20.0000	19.445
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	310985	20.0000	19.718
52 d5-Chlorobenzene	117	7.653	7.647	(1.000)	637911	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.001)	1495105	20.0000	19.811
54 Ethyl Benzene	91	7.709	7.709	(1.007)	2726295	20.0000	19.506 (M)
55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	486425	20.0000	19.378
56 m,p-xylene	106	7.839	7.839	(1.024)	2058818	40.0000	38.837
57 o-Xylene	106	8.201	8.201	(1.072)	1009736	20.0000	19.695
58 Styrene	104	8.252	8.252	(1.078)	1629637	20.0000	19.478
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	2540026	20.0000	20.208
59 Bromoform	173	8.247	8.247	(0.849)	187609	20.0000	20.042
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	302513	20.0000	19.285
61 4-Bromofluorobenzene	95	8.711	8.716	(1.138)	284665	10.0000	9.917
66 1,2,3-Trichloropropane	110	9.022	9.021	(0.929)	87686	20.0000	19.791
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	71648	20.0000	17.338 (Q)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	2784355	20.0000	19.727
62 Bromobenzene	156	8.790	8.790	(0.905)	578843	20.0000	19.223
67 1,3,5-Trimethyl Benzene	105	9.039	9.038	(0.931)	2069351	20.0000	19.839
65 2-Chloro Toluene	91	8.965	8.965	(0.923)	1697440	20.0000	19.793
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	1699920	20.0000	19.523
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	1787853	20.0000	19.857
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	2069829	20.0000	19.665
72 S-Butyl Benzene	105	9.469	9.468	(0.975)	2514254	20.0000	19.586
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	2119230	20.0000	19.577
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	1127767	20.0000	18.708
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	328256	10.0000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	1135641	20.0000	18.504
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	1798879	20.0000	19.250
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	289754	10.0000	9.997(Q)
79 1,2-Dichlorobenzene	146	10.102	10.096	(1.040)	1012978	20.0000	19.152
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	50029	20.0000	18.441
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	690731	20.0000	19.379
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	253676	20.0000	19.239
84 Naphthalene	128	11.799	11.799	(1.215)	1273524	20.0000	20.201
85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	553684	20.0000	19.448

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- I - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i	Calibration Date: 28-JAN-2010
Lab File ID: 01281010.d	Calibration Time: 16:48
Lab Smp Id: 20 0127	Client Smp ID: 20 ppb
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m	
Disc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	482450	2.31
35 1,4-Difluorobenze	723083	361542	1446166	728422	0.74
52 d5-Chlorobenzene	624979	312490	1249958	637911	2.07
75 d4-1,4-Dichlorobe	328841	164420	657682	328256	-0.18

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.08
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/28JAN10.b/01281010.d

Date: 28-JAN-2010 17:14

Client ID: 20 ppb

Sample Info: 20 0127,10,10,0,

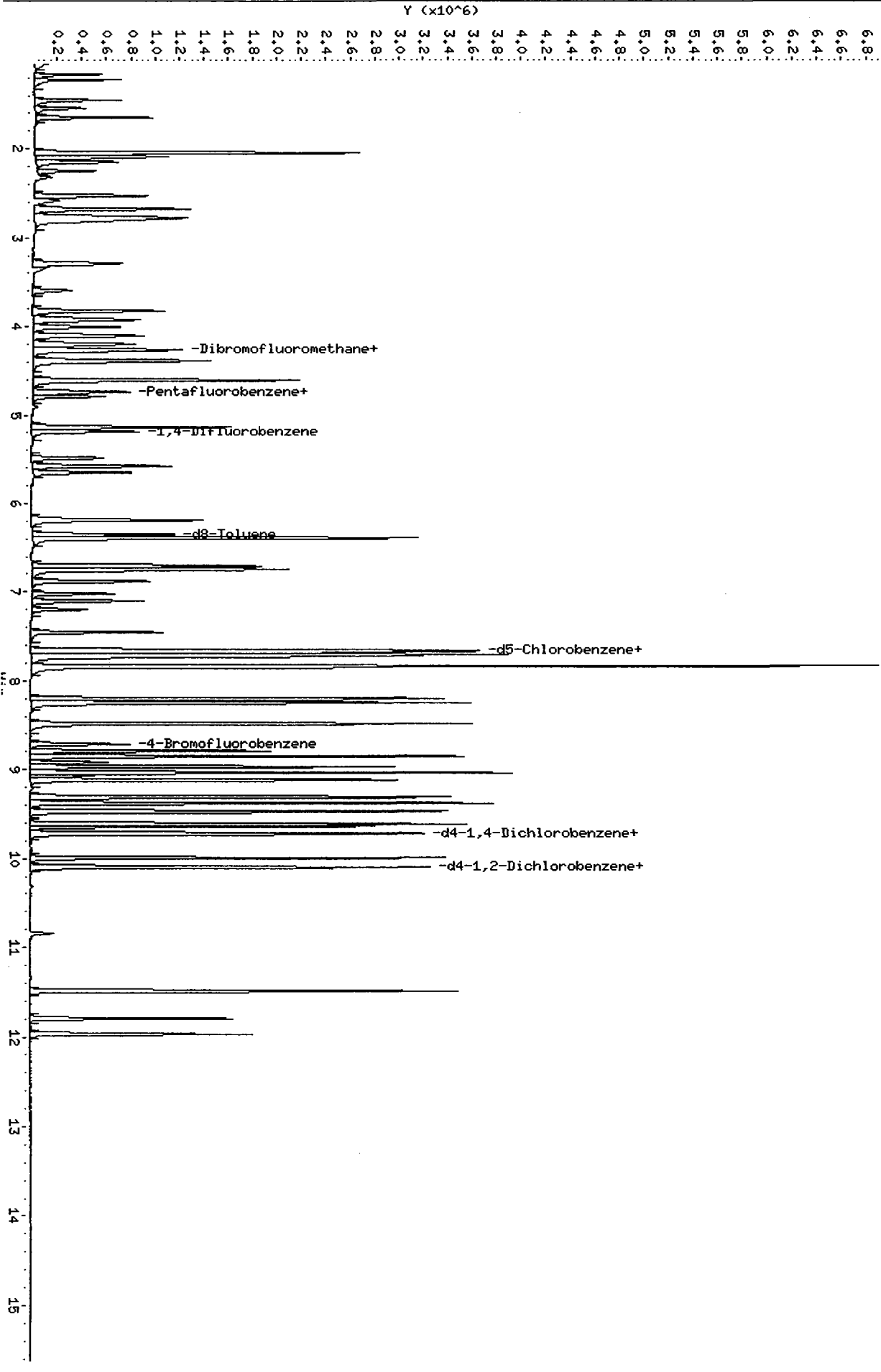
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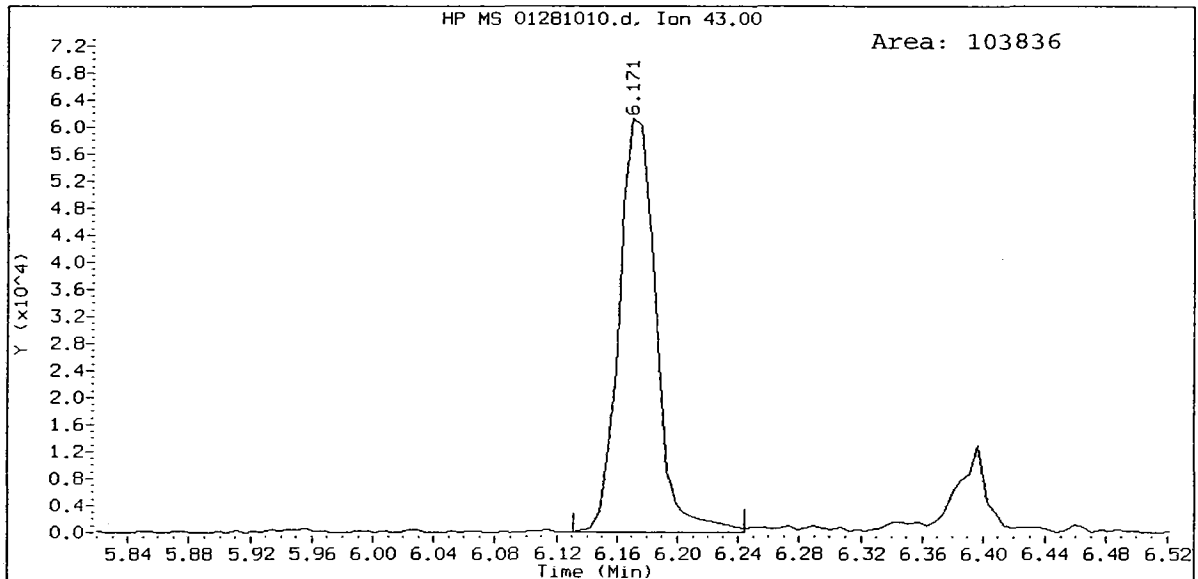
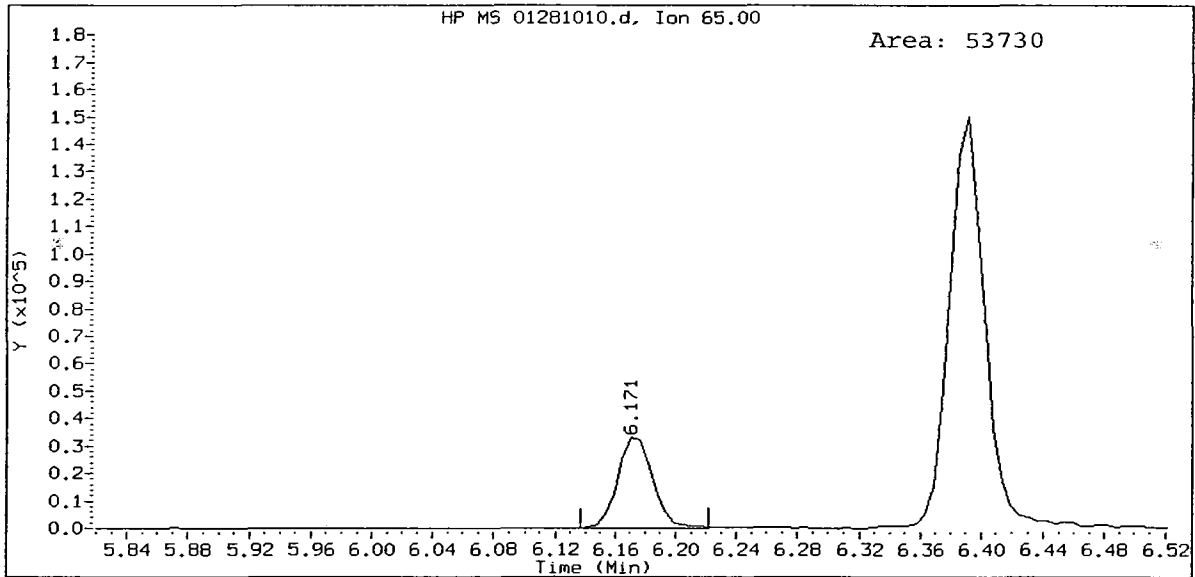
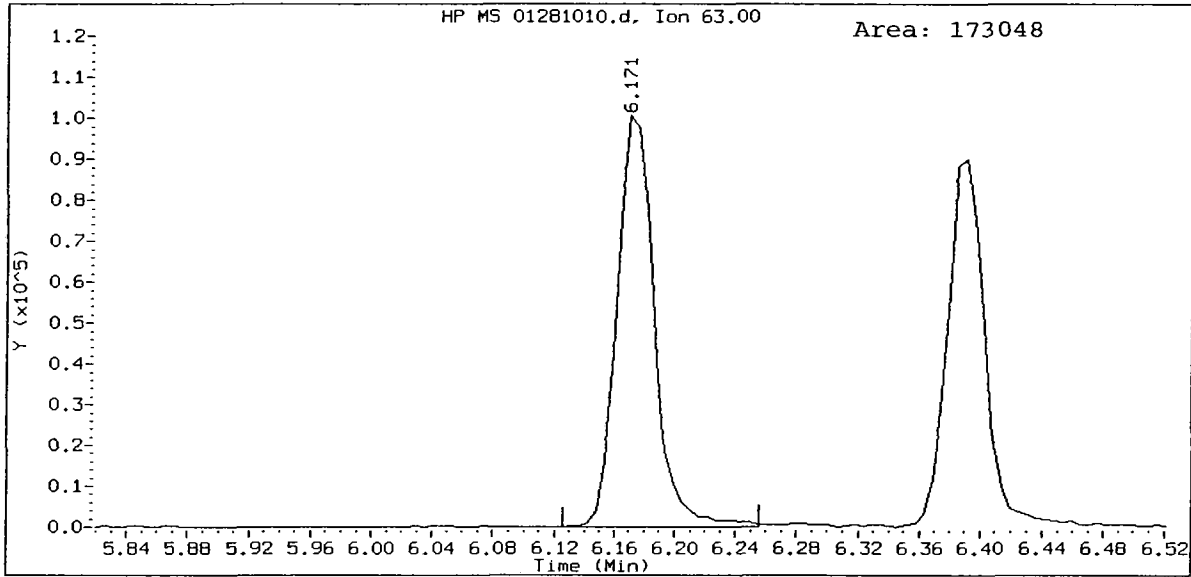
Instrument: nt5.i

Operator: PC

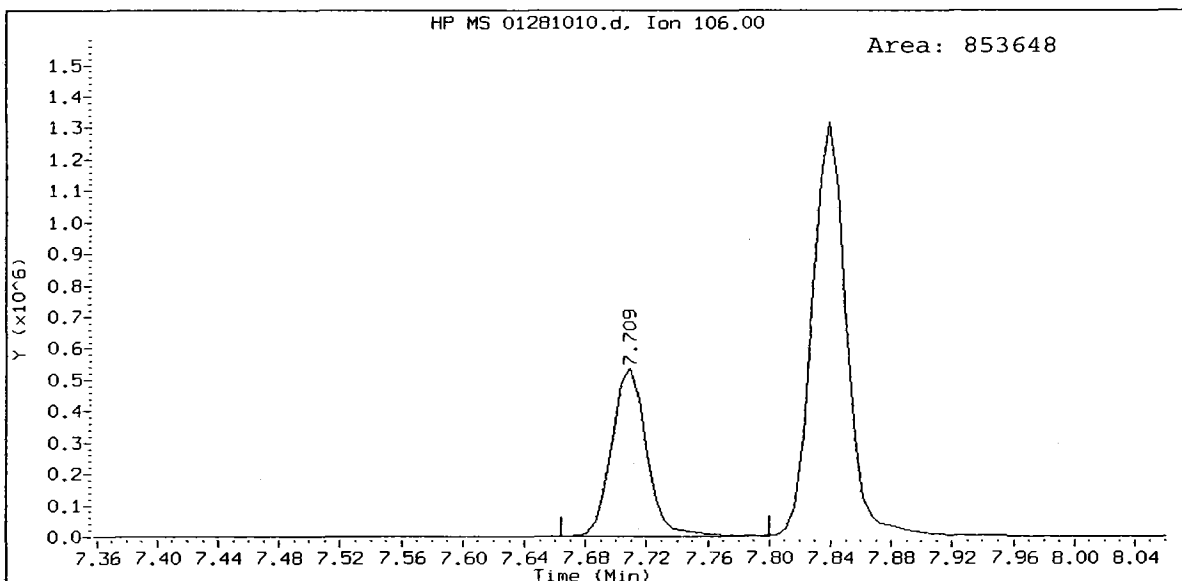
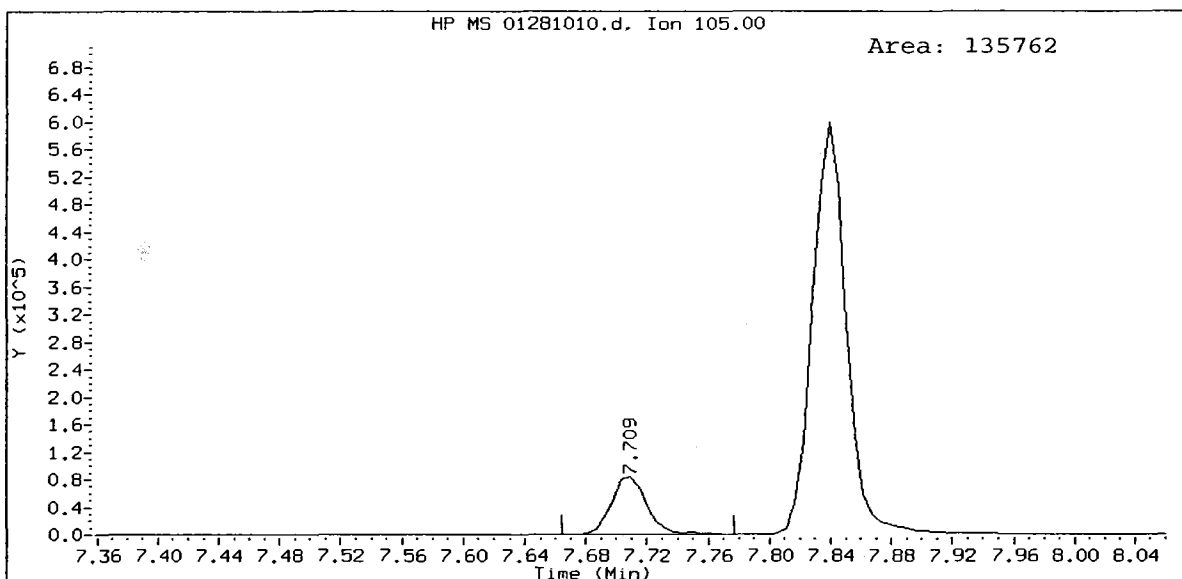
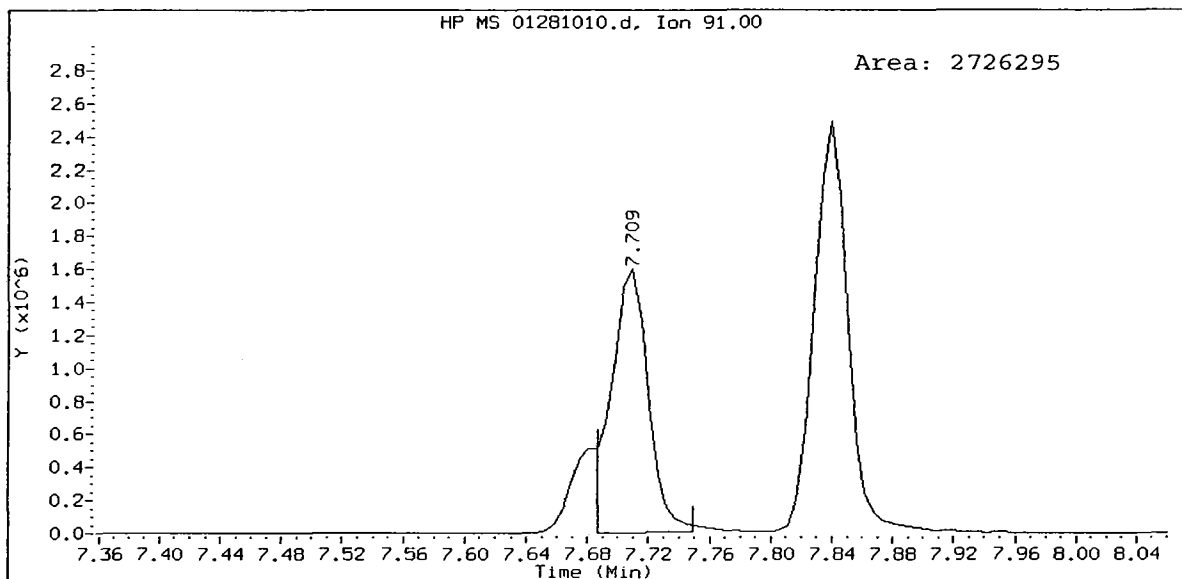
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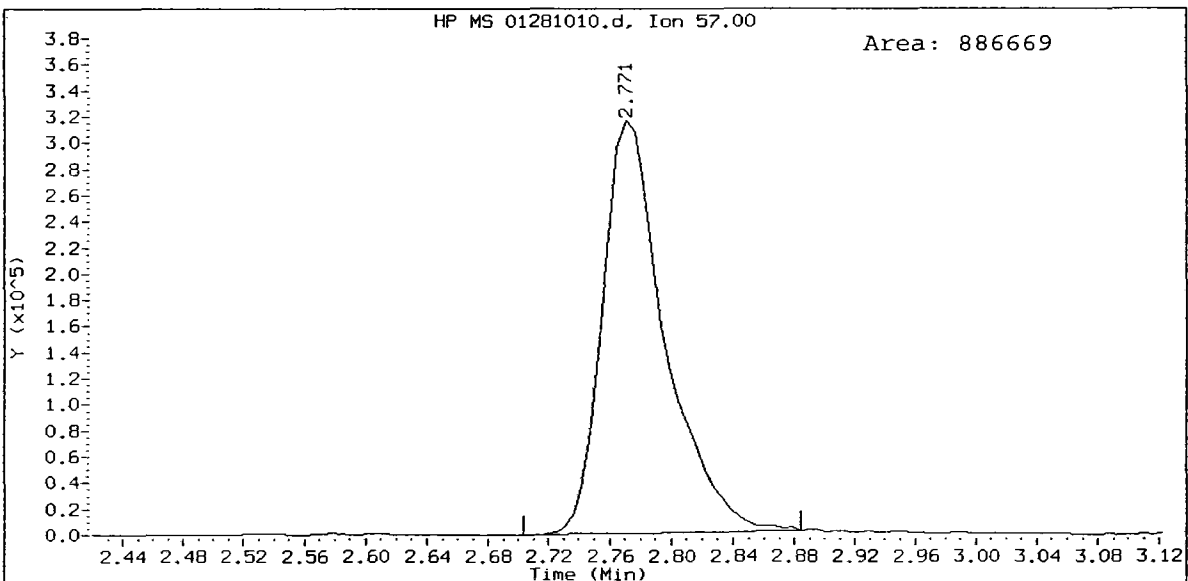
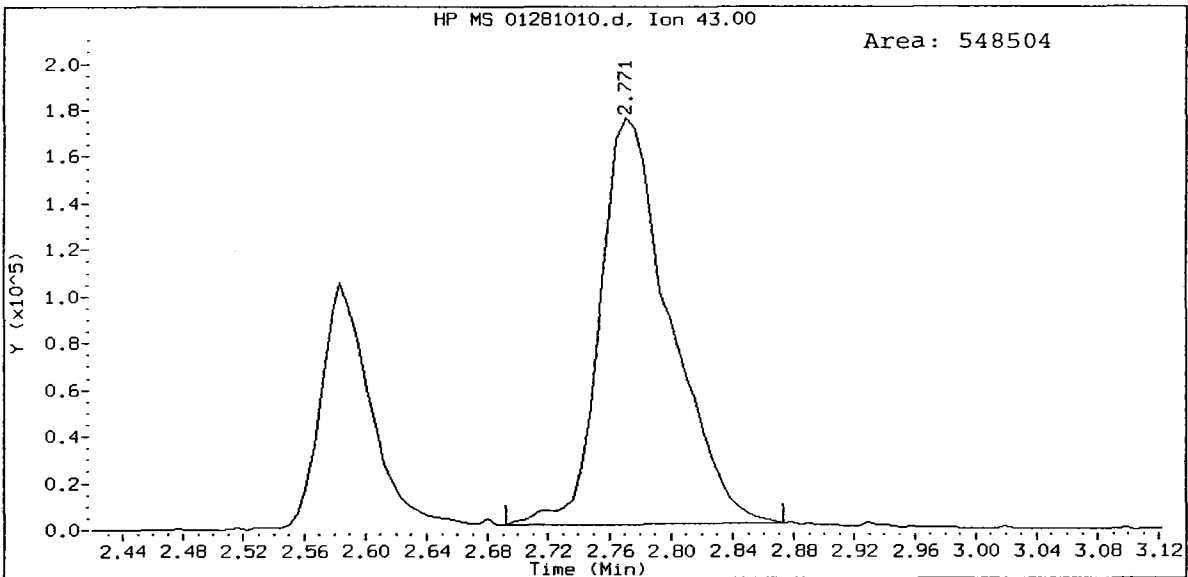
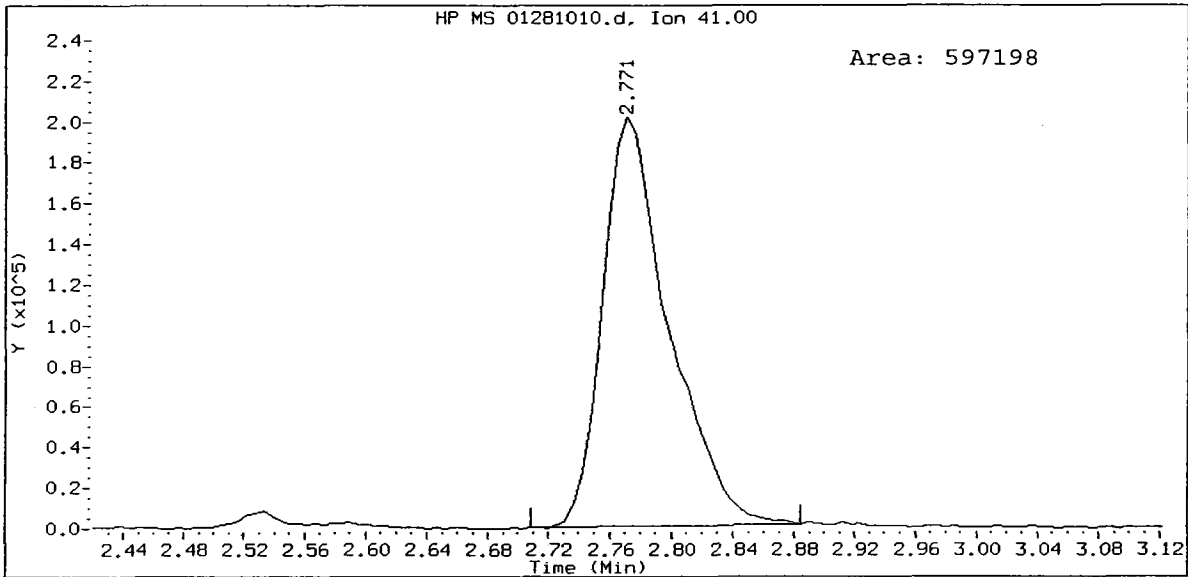




20 0127, /chem1/nt5.i/28JAN10.b/01281010.d
Ethyl Benzene Amount: 19.51



20 0127, /chem1/nt5.i/28JAN10.b/01281010.d
Hexane Amount: 18.05



PC
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Data File: /chem1/nt5.i/28JAN10.b/01281011.d
Report Date: 29-Jan-2010 10:36

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/28JAN10.b/01281011.d
Lab Smp Id: 40 0127 Client Smp ID: 40 ppb
Inj Date : 28-JAN-2010 17:40
Operator : PC Inst ID: nt5.i
Smp Info : 40 0127,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
Meth Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vls bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa+hex.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85		1.034	1.034	(0.218)	700252	40.0000	41.271
172 Hexane	41		2.771	2.771	(0.585)	1212873	40.0000	36.341 (M)
2 Chloromethane	50		1.164	1.164	(0.246)	978837	40.0000	40.738
3 Vinyl Chloride	62		1.226	1.226	(0.259)	1155653	40.0000	40.061
4 Bromomethane	94		1.453	1.453	(0.307)	828541	40.0000	43.083
5 Chloroethane	64		1.543	1.543	(0.326)	685600	40.0000	36.189
6 Trichlorofluoromethane	101		1.645	1.651	(0.347)	1363118	40.0000	40.098
12 Acrolein	56		2.318	2.318	(0.489)	275683	200.000	214.28
9 112Trichloro122Trifluoroethane	101		2.092	2.092	(0.441)	1038290	40.0000	40.123
14 Acetone	43		2.584	2.590	(0.545)	473125	200.000	193.65
7 1,1-Dichloroethene	96		2.041	2.041	(0.431)	1044352	40.0000	38.750
11 Bromoethane	108		2.250	2.250	(0.475)	762213	40.0000	39.031 (M)
10 Iodomethane	142		2.149	2.148	(0.453)	1546070	40.0000	39.395
13 Methylene Chloride	84		2.528	2.527	(0.533)	1054148	40.0000	39.444
18 Acrylonitrile	53		3.348	3.348	(0.706)	147173	40.0000	37.617
16 Methyl tert butyl ether	73		2.805	2.805	(0.592)	2072983	40.0000	40.033

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
-----	----	==	=====	=====	=====	=====	=====
8 Carbon Disulfide	76	2.052	2.052	(0.433)	3455304	40.0000	39.694
15 Trans-1,2-Dichloroethene	96	2.675	2.680	(0.564)	1147658	40.0000	39.034
19 Vinyl Acetate	43	3.591	3.597	(0.758)	1037815	40.0000	40.431
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	1670758	40.0000	38.805
29 2-Butanone	72	4.400	4.405	(0.928)	309479	200.000	199.56
21 2,2-Dichloropropane	77	3.919	3.925	(0.827)	1476491	40.0000	39.025
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.808)	1148731	40.0000	39.172
32 Pentafluorobenzene	168	4.739	4.739	(1.000)	486697	10.0000	
23 Chloroform	83	4.106	4.106	(0.866)	1658417	40.0000	39.407
22 Bromochloromethane	128	4.010	4.004	(0.846)	478519	40.0000	40.123
25 Dibromofluoromethane	111	4.270	4.270	(0.901)	175855	10.0000	10.227
26 1,1,1-Trichloroethane	97	4.270	4.264	(0.901)	1517540	40.0000	39.893
28 1,1-Dichloropropene	75	4.389	4.388	(0.846)	1416405	40.0000	38.667
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	1282150	40.0000	41.238
31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.999)	154144	10.0000	10.039
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	940292	40.0000	39.546
30 Benzene	78	4.609	4.609	(0.889)	4267530	40.0000	38.626
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	742330	10.0000	
34 Trichloroethene	130	5.135	5.135	(0.990)	1233172	40.0000	39.985
38 1,2-Dichloropropane	63	5.577	5.576	(1.075)	944727	40.0000	39.066
39 Bromodichloromethane	83	5.650	5.650	(1.089)	1131388	40.0000	40.056
37 Dibromomethane	93	5.486	5.486	(1.058)	421770	40.0000	39.422
40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	347234	40.0000	39.826 (H)
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	849124	200.000	195.88
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	1530258	40.0000	39.615
42 d8-Toluene	98	6.352	6.346	(1.225)	799886	10.0000	9.906
43 Toluene	92	6.391	6.391	(1.232)	2841618	40.0000	38.537
46 Trans 1,3-Dichloropropene	75	6.759	6.753	(1.303)	1183103	40.0000	37.924
51 2-Hexanone	43	7.455	7.455	(0.974)	1236338	200.000	205.73
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	659516	40.0000	39.998
49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	1138254	40.0000	39.981
44 Tetrachloroethene	166	6.708	6.708	(0.877)	1221612	40.0000	39.515
48 Chlorodibromomethane	129	7.019	7.019	(0.917)	783033	40.0000	41.335
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	637512	40.0000	39.663
52 d5-Chlorobenzene	117	7.653	7.647	(1.000)	627887	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.001)	2949332	40.0000	39.704
54 Ethyl Benzene	91	7.709	7.709	(1.007)	5484196	40.0000	39.864 (M)
55 1,1,1,2-Tetrachloroethane	131	7.732	7.726	(1.010)	979722	40.0000	39.654
56 m,p-xylene	106	7.839	7.839	(1.024)	4078619	80.0000	78.167
57 o-Xylene	106	8.207	8.201	(1.072)	1997352	40.0000	39.580
58 Styrene	104	8.252	8.252	(1.078)	3256434	40.0000	39.544
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	4982998	40.0000	37.314
59 Bromoform	173	8.252	8.247	(0.850)	394579	40.0000	39.677
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	625507	40.0000	37.533
61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	290843	10.0000	10.294
66 1,2,3-Trichloropropane	110	9.022	9.021	(0.929)	177406	40.0000	37.689
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	159731	40.0000	36.383

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	5525944	40.0000	36.851
62 Bromobenzene	156	8.795	8.790	(0.906)	1185378	40.0000	37.053
67 1,3,5-Trimethyl Benzene	105	9.039	9.038	(0.931)	4168187	40.0000	37.614
65 2-Chloro Toluene	91	8.971	8.965	(0.924)	3417010	40.0000	37.503
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	3474719	40.0000	37.561
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	3645891	40.0000	38.114
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	4242326	40.0000	37.937
72 S-Butyl Benzene	105	9.474	9.468	(0.976)	5067909	40.0000	37.160
73 4-Isopropyl Toluene	119	9.616	9.610	(0.990)	4375979	40.0000	38.050
74 1,3-Dichlorobenzene	146	9.644	9.638	(0.993)	2378770	40.0000	37.141
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	348746	10.0000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	2392849	40.0000	36.697
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	3738729	40.0000	37.658
78 d4-1,2-Dichlorobenzene	152	10.097	10.091	(1.040)	303067	10.0000	9.842 (Q)
79 1,2-Dichlorobenzene	146	10.102	10.096	(1.040)	2125763	40.0000	37.829
81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	108329	40.0000	37.585
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	1449268	40.0000	38.272
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	555956	40.0000	39.686
84 Naphthalene	128	11.799	11.799	(1.215)	2618305	40.0000	39.092
85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	1146914	40.0000	37.919

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- I - Compound response manually integrated.
- A - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 01281011.d
 Lab Smp Id: 40 0127
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Misc Info: 10-

Calibration Date: 28-JAN-2010
 Calibration Time: 16:48
 Client Smp ID: 40 ppb
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	486697	3.21
35 1,4-Difluorobenze	723083	361542	1446166	742330	2.66
52 d5-Chlorobenzene	624979	312490	1249958	627887	0.47
75 d4-1,4-Dichlorobe	328841	164420	657682	348746	6.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.00
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.08
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/28JAN10.b/01281011.d

Date : 28-JAN-2010 17:40

Client ID: 40 ppb

Sample Info: 40 0127,10,10,0,

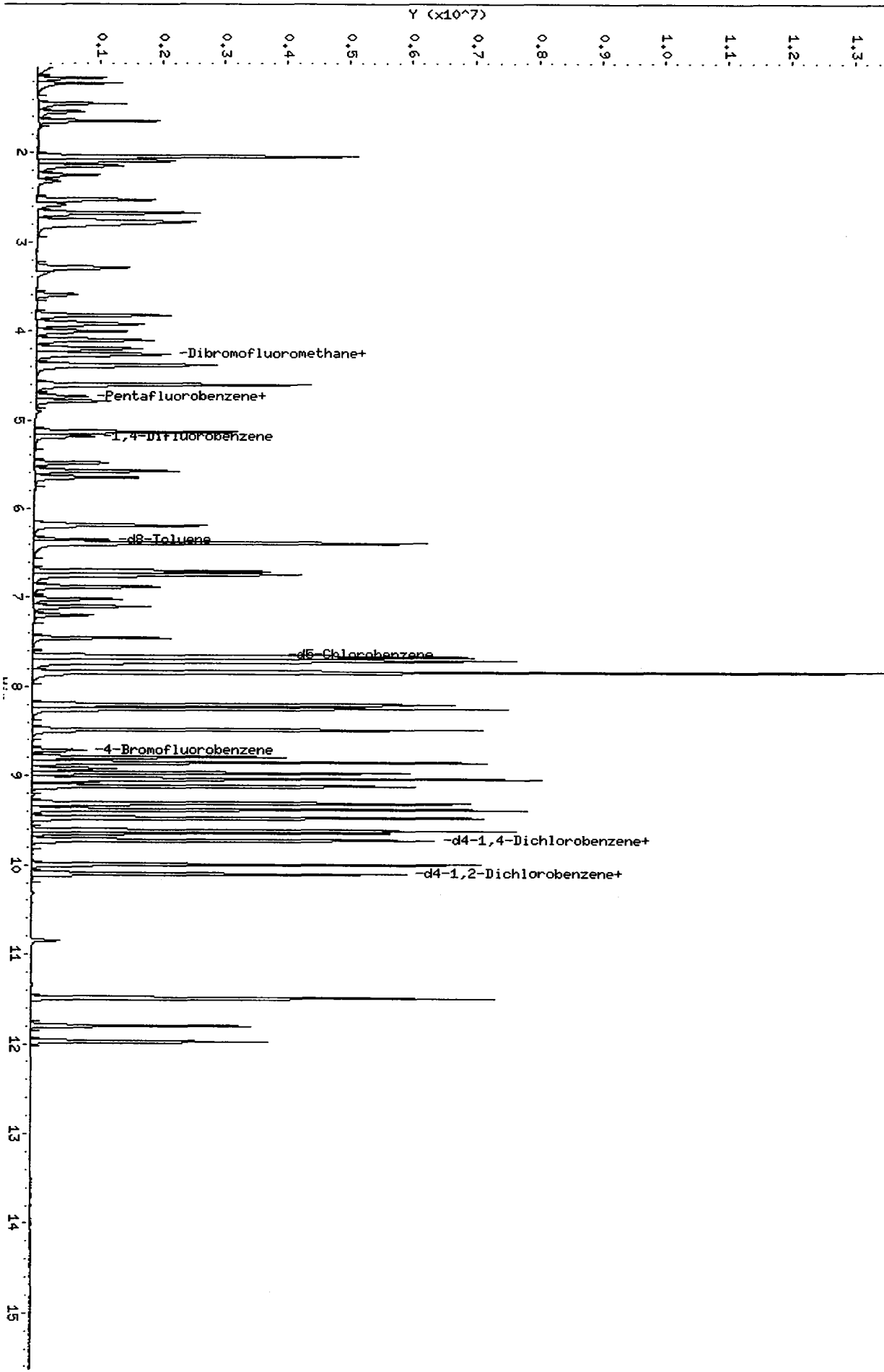
Column phase: RTXVHS

Instrument: nt5.i

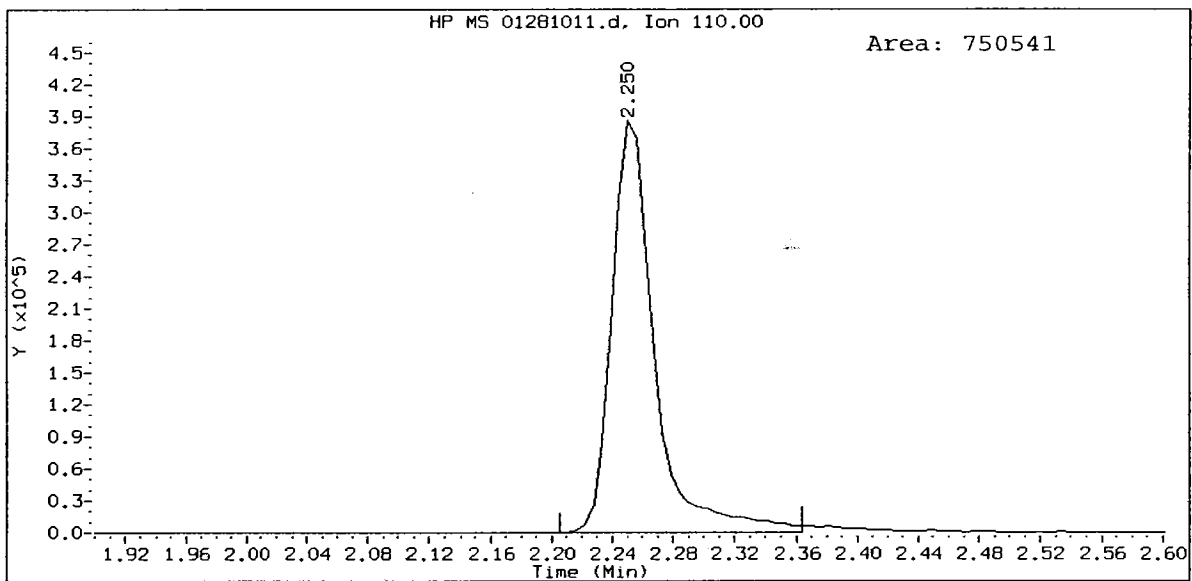
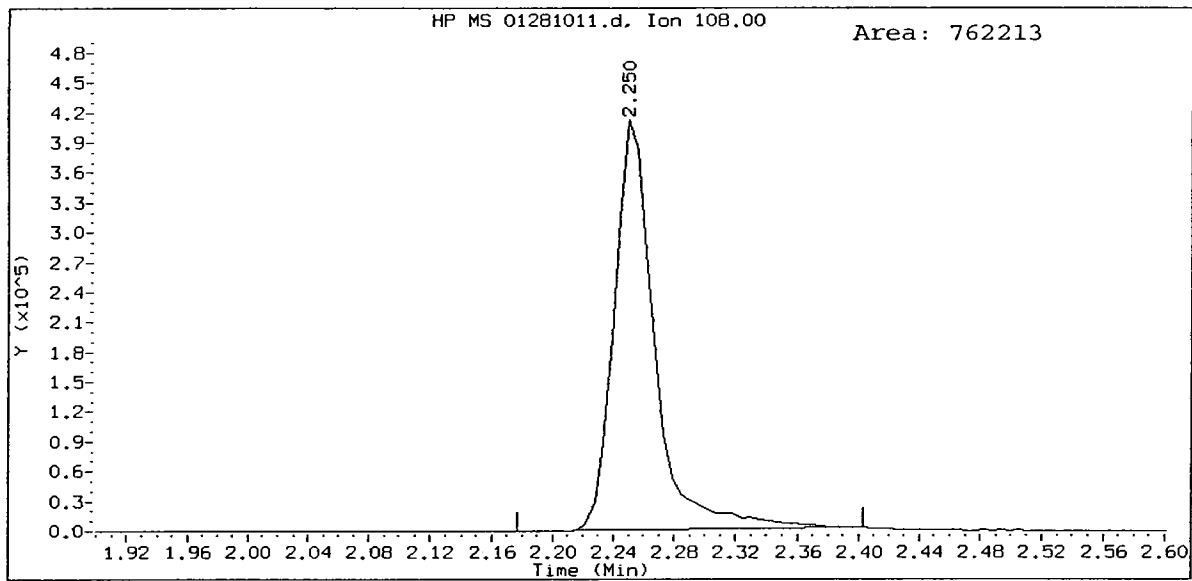
Operator: PC

Column diameter: 0.18

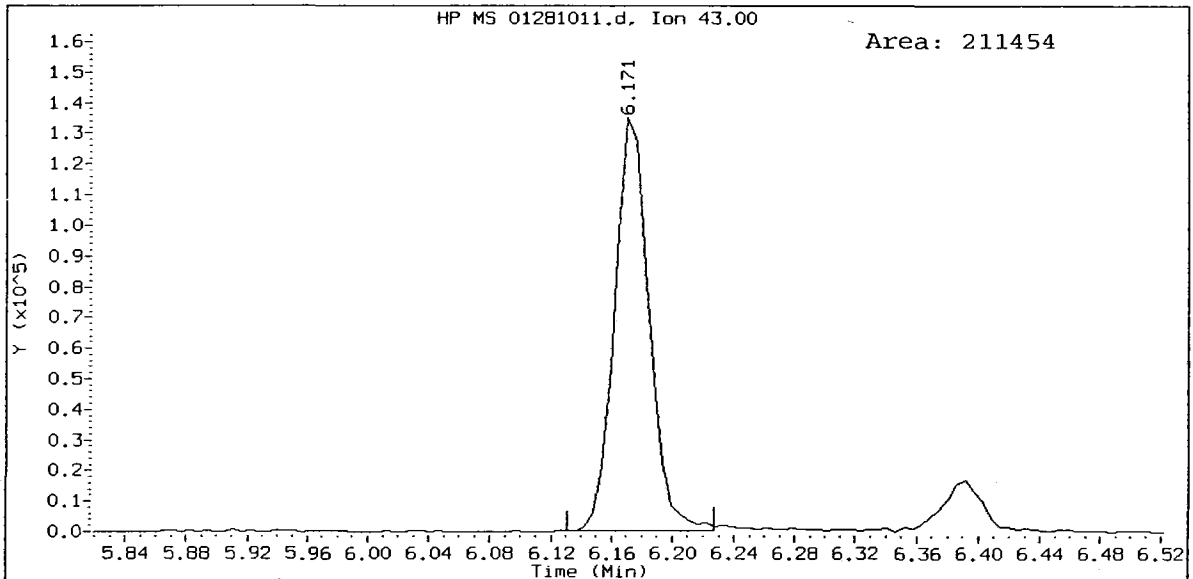
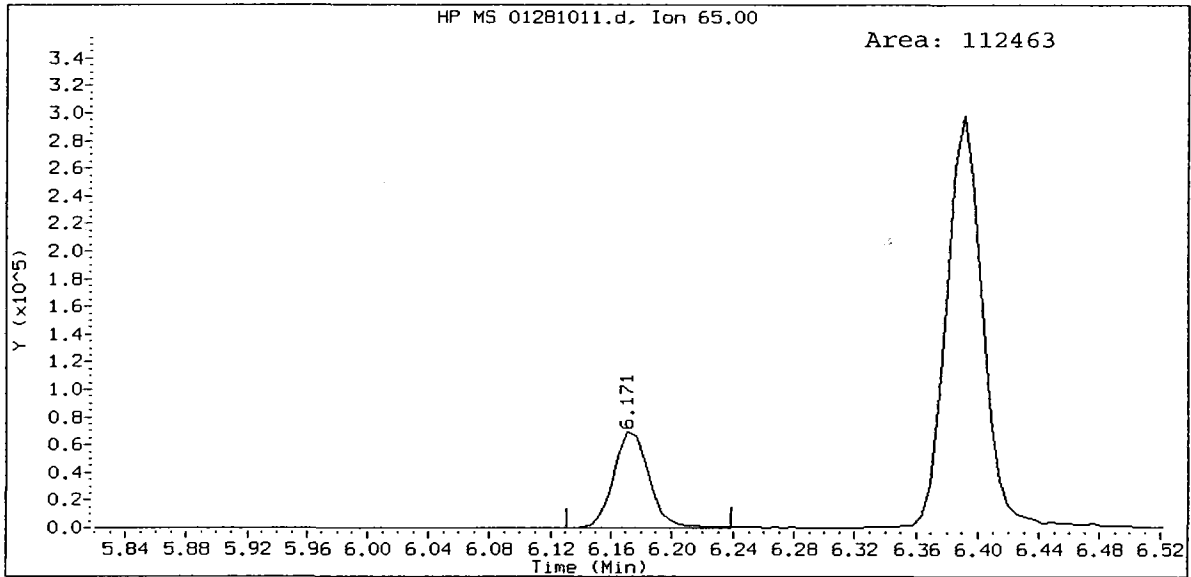
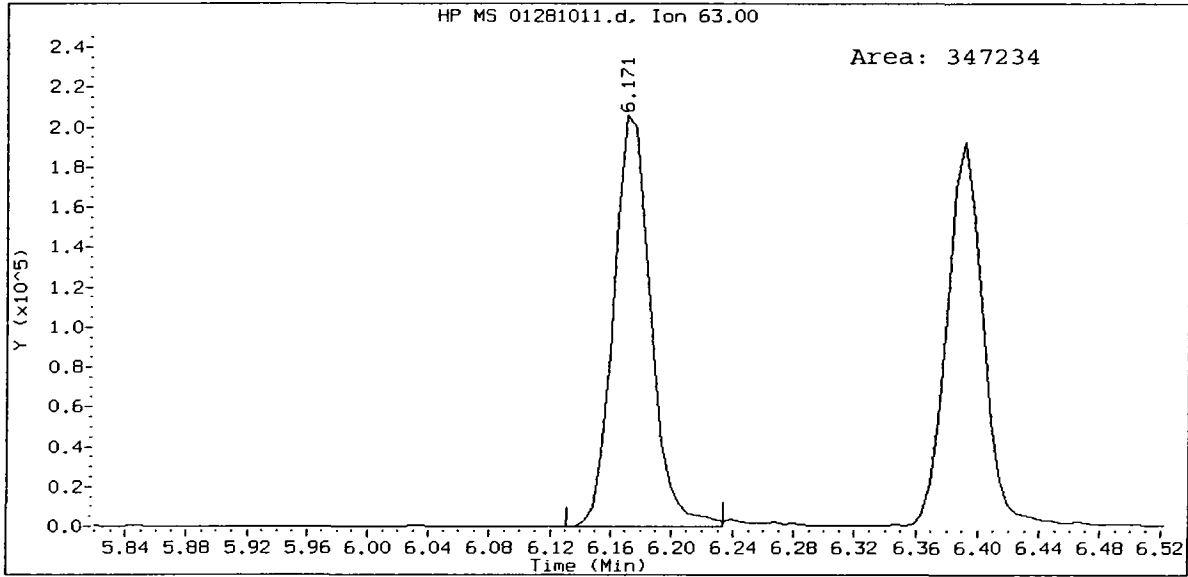
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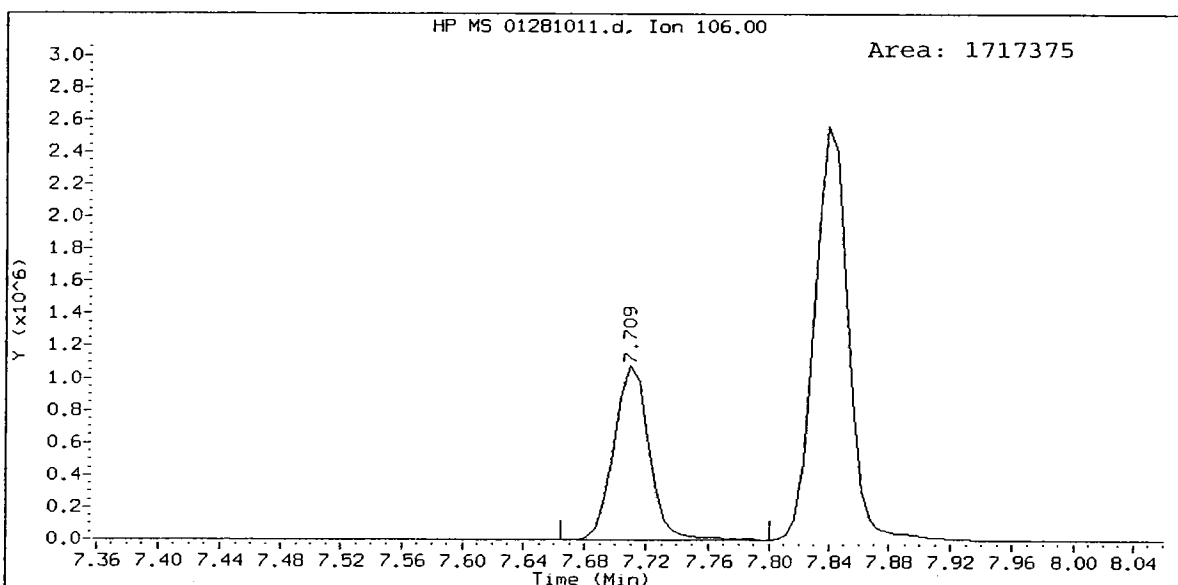
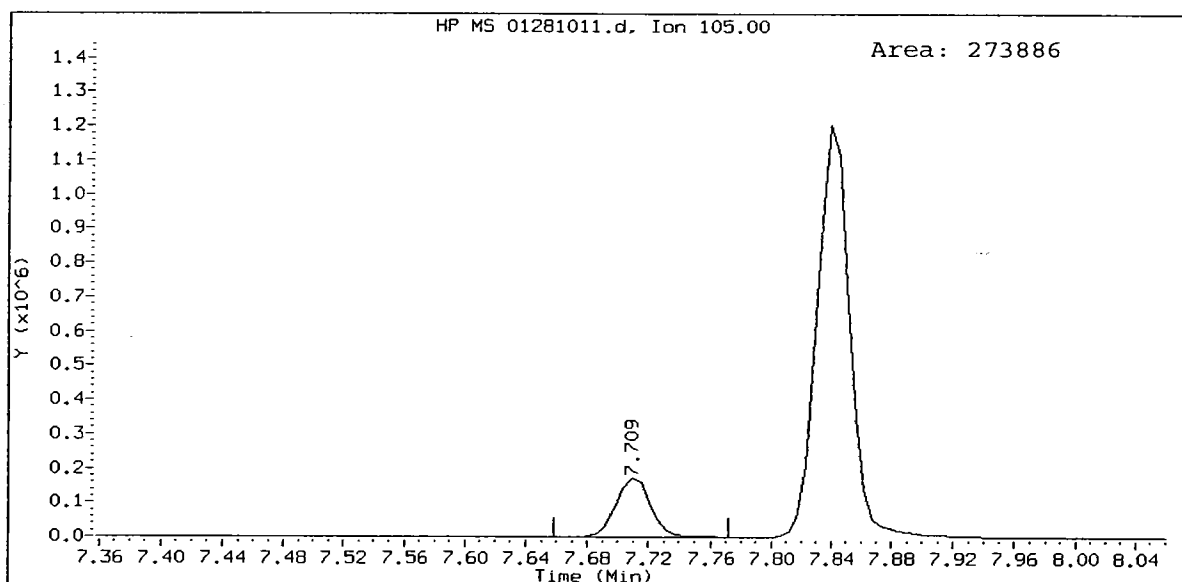
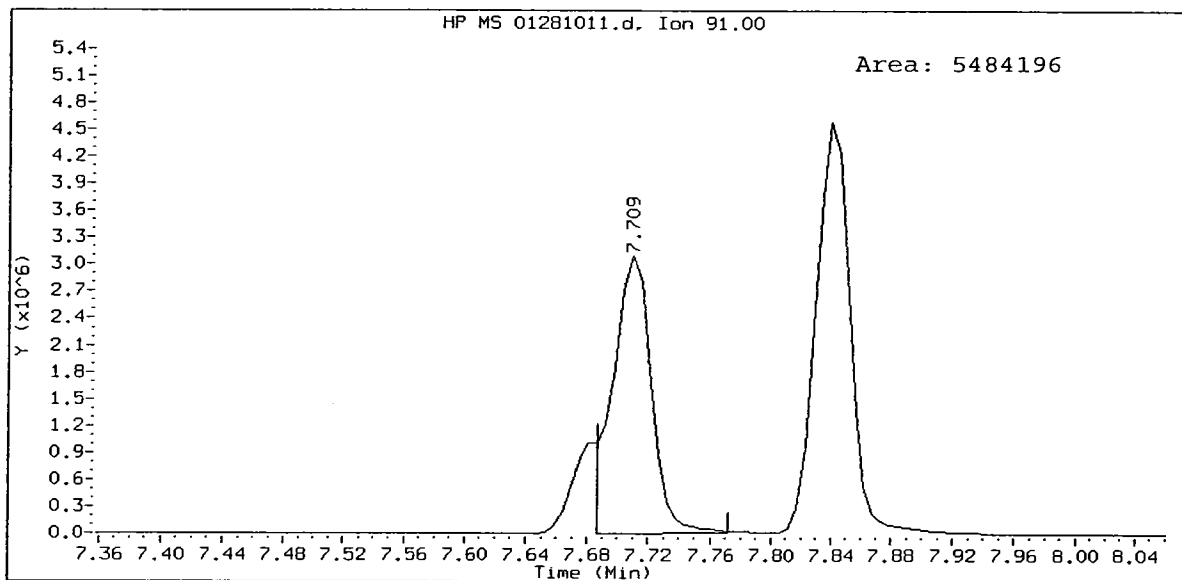
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Bromoethane Amount: 39.03



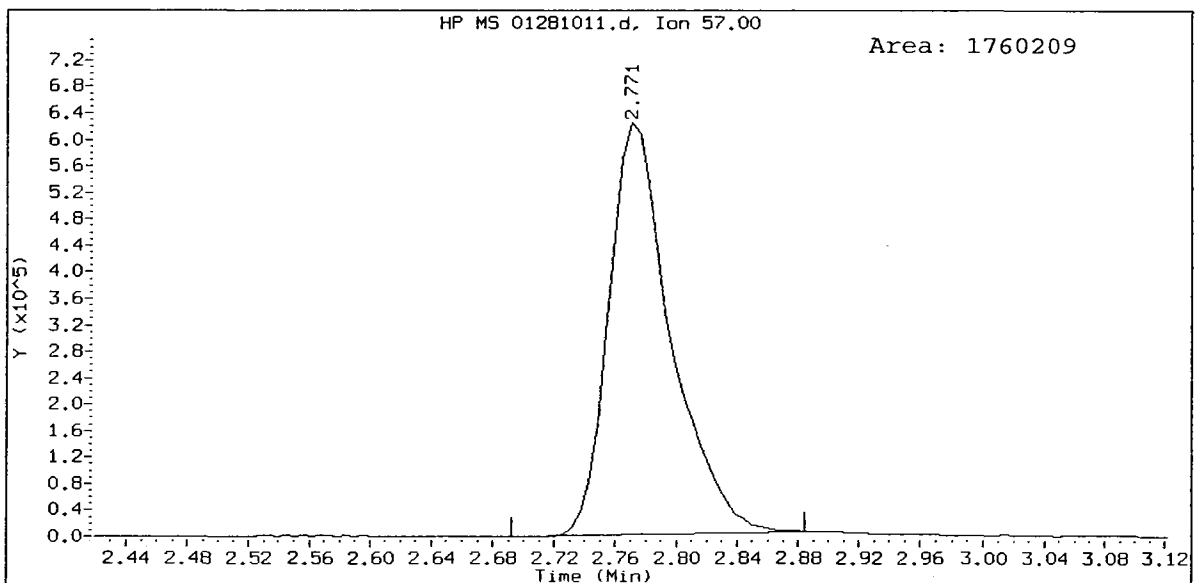
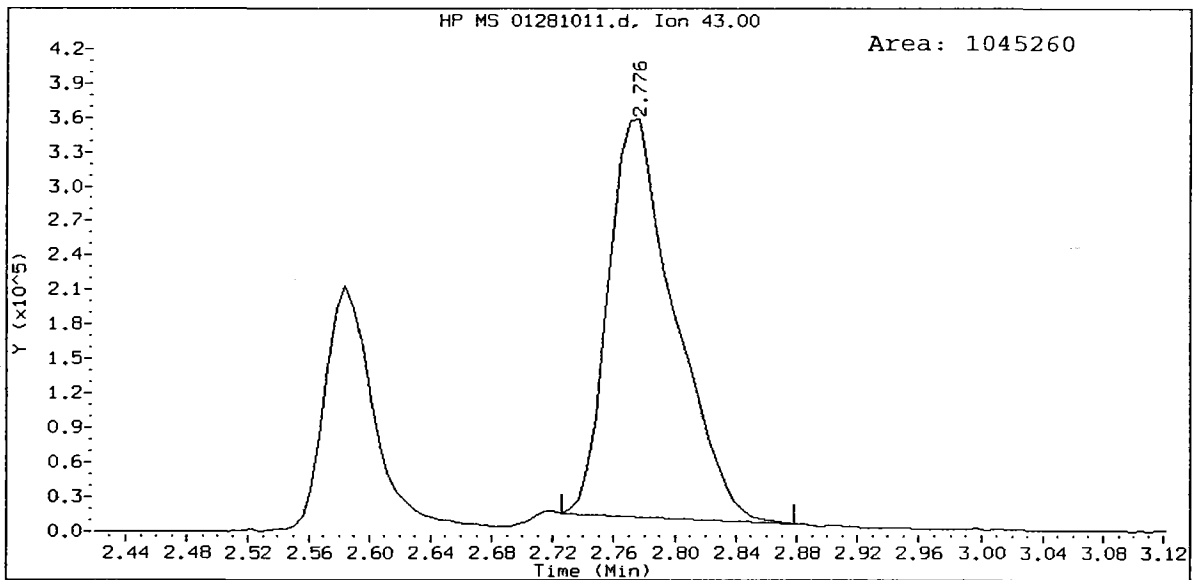
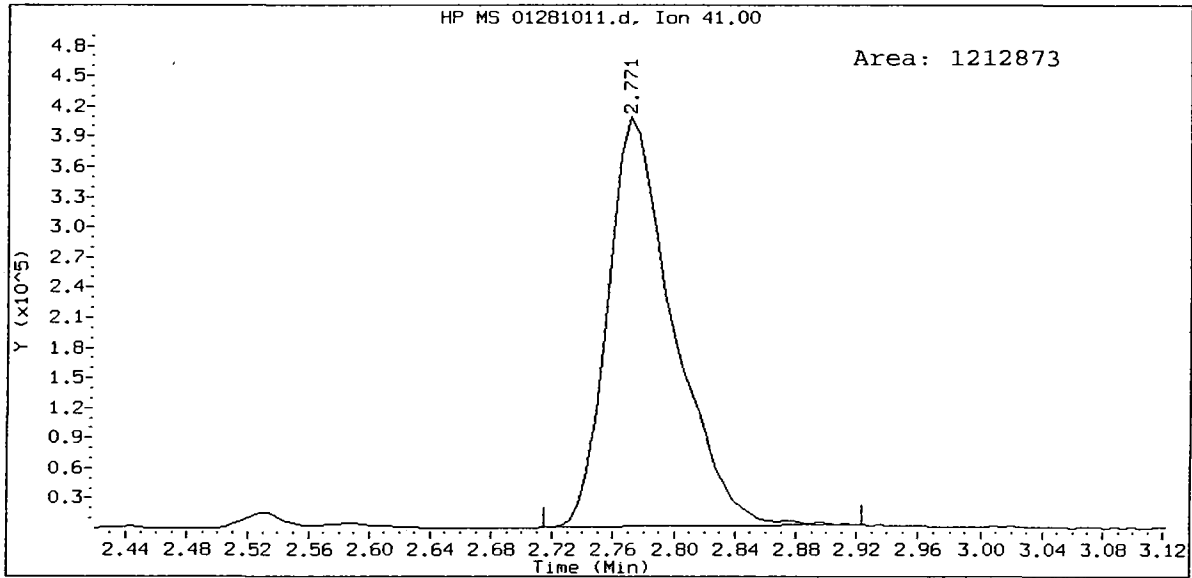
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2-Chloroethyl Vinyl Ether Amount: 39.83



40 0127, /chem1/nt5.i/28JAN10.b/01281011.d
Ethyl Benzene Amount: 39.86



40 0127, /chem1/nt5.i/28JAN10.b/01281011.d
Hexane Amount: 36.34



PC
1/29/10

Data File: /chem1/nt5.i/28JAN10.b/01281012.d
Report Date: 29-Jan-2010 10:36

Page 1

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/28JAN10.b/01281012.d
Lab Smp Id: 60 0127 Client Smp ID: 60 ppb
Inj Date : 28-JAN-2010 18:05
Operator : PC Inst ID: nt5.i
Smp Info : 60 0127,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
Meth Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vials bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa+hex.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Compound Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	1113295	60.0000	66.074
172 Hexane	41	2.771	2.771	(0.584)	1910470	60.0000	57.644 (M)
2 Chloromethane	50	1.164	1.164	(0.245)	1567058	60.0000	65.675
3 Vinyl Chloride	62	1.226	1.226	(0.258)	1856371	60.0000	64.802
4 Bromomethane	94	1.453	1.453	(0.306)	1361523	60.0000	71.292
5 Chloroethane	64	1.543	1.543	(0.325)	1051183	60.0000	55.874
6 Trichlorofluoromethane	101	1.645	1.651	(0.347)	2117070	60.0000	62.712
12 Acrolein	56	2.318	2.318	(0.489)	492023	300.000	385.11
9 1,1,2-Trichloro-2,2,2-Trifluoroethane	101	2.092	2.092	(0.441)	1631589	60.0000	63.492
14 Acetone	43	2.584	2.590	(0.545)	762942	300.000	314.46
7 1,1-Dichloroethene	96	2.041	2.041	(0.430)	1643057	60.0000	61.391
11 Bromoethane	108	2.250	2.250	(0.474)	1245912	60.0000	64.246
10 Iodomethane	142	2.148	2.148	(0.453)	2410235	60.0000	61.845
13 Methylene Chloride	84	2.527	2.527	(0.533)	1723883	60.0000	64.955
18 Acrylonitrile	53	3.348	3.348	(0.706)	251006	60.0000	64.606
16 Methyl tert butyl ether	73	2.805	2.805	(0.591)	3254406	60.0000	63.289

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
8 Carbon Disulfide	76	2.047	2.052	(0.431)	5453169	60.0000	63.084
15 Trans-1,2-Dichloroethene	96	2.675	2.680	(0.564)	1889104	60.0000	64.703
19 Vinyl Acetate	43	3.597	3.597	(0.758)	1691608	60.0000	66.363
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	2718354	60.0000	63.578
29 2-Butanone	72	4.400	4.405	(0.927)	489157	300.000	317.62
21 2,2-Dichloropropane	77	3.919	3.925	(0.826)	2366156	60.0000	62.978
20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.806)	1831767	60.0000	62.900
32 Pentafluorobenzene	168	4.745	4.739	(1.000)	483313	10.0000	
23 Chloroform	83	4.106	4.106	(0.865)	2699602	60.0000	64.597
22 Bromochloromethane	128	4.010	4.004	(0.845)	760855	60.0000	64.243
25 Dibromofluoromethane	111	4.270	4.270	(0.900)	172751	10.0000	10.117
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.899)	2453998	60.0000	64.963
28 1,1-Dichloropropene	75	4.389	4.388	(0.846)	2277560	60.0000	63.416
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	2056378	60.0000	67.460
31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.996)	151819	10.0000	9.957
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	1502841	60.0000	64.467
30 Benzene	78	4.609	4.609	(0.889)	6742999	60.0000	62.249
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	727807	10.0000	
34 Trichloroethene	130	5.135	5.135	(0.990)	1948584	60.0000	64.443
38 1,2-Dichloropropane	63	5.577	5.576	(1.075)	1483174	60.0000	62.555
39 Bromodichloromethane	83	5.656	5.650	(1.091)	1849027	60.0000	66.770
37 Dibromomethane	93	5.492	5.486	(1.059)	681380	60.0000	64.959
40 2-Chloroethyl Vinyl Ether	63	6.176	6.170	(1.191)	565821	60.0000	66.192 (H)
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	1367462	300.000	321.75
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	2429029	60.0000	64.136
42 d8-Toluene	98	6.352	6.346	(1.225)	808456	10.0000	10.212
43 Toluene	92	6.391	6.391	(1.232)	4491914	60.0000	62.133
46 Trans 1,3-Dichloropropene	75	6.759	6.753	(1.303)	1905091	60.0000	62.285
51 2-Hexanone	43	7.460	7.455	(0.975)	1957618	300.000	322.70
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	1057768	60.0000	65.431
49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	1826956	60.0000	63.571
44 Tetrachloroethene	166	6.708	6.708	(0.877)	1940947	60.0000	62.194
48 Chlorodibromomethane	129	7.019	7.019	(0.917)	1267538	60.0000	66.285
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	1026661	60.0000	65.149
52 d5-Chlorobenzene	117	7.653	7.647	(1.000)	633826	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.001)	4624852	60.0000	61.676
54 Ethyl Benzene	91	7.709	7.709	(1.007)	7970535	60.0000	57.394 (M)
55 1,1,1,2-Tetrachloroethane	131	7.732	7.726	(1.010)	1581905	60.0000	63.427
56 m,p-xylene	106	7.845	7.839	(1.025)	6238711	120.000	118.44
57 o-Xylene	106	8.207	8.201	(1.072)	3205468	60.0000	62.924
58 Styrene	104	8.252	8.252	(1.078)	5095041	60.0000	61.291
60 Isopropyl Benzene	105	8.490	8.484	(0.874)	7652522	60.0000	55.891
59 Bromoform	173	8.252	8.247	(0.850)	654583	60.0000	64.198
64 1,1,2,2-Tetrachloroethane	83	8.925	8.920	(0.919)	1029467	60.0000	60.248
61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	299105	10.0000	10.487
66 1,2,3-Trichloropropane	110	9.022	9.021	(0.929)	292069	60.0000	60.518
68 Trans-1,4-Dichloro 2-Butene	53	9.078	9.072	(0.935)	289982	60.0000	64.422

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	8386217	60.0000	54.546
62 Bromobenzene	156	8.795	8.790	(0.906)	1929625	60.0000	58.830
67 1,3,5-Trimethyl Benzene	105	9.039	9.038	(0.931)	6596111	60.0000	58.055
65 2-Chloro Toluene	91	8.971	8.965	(0.924)	5449654	60.0000	58.337
69 4-Chloro Toluene	91	9.123	9.118	(0.939)	5597222	60.0000	59.013
70 T-Butyl Benzene	119	9.316	9.310	(0.959)	5776709	60.0000	58.900
71 1,2,4-Trimethylbenzene	105	9.384	9.378	(0.966)	6662585	60.0000	58.111
72 S-Butyl Benzene	105	9.474	9.468	(0.976)	7819793	60.0000	55.923
73 4-Isopropyl Toluene	119	9.616	9.610	(0.990)	6783608	60.0000	57.530
74 1,3-Dichlorobenzene	146	9.644	9.638	(0.993)	3855694	60.0000	58.717
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	357565	10.0000	
76 1,4-Dichlorobenzene	146	9.729	9.723	(1.002)	3877073	60.0000	57.993
77 N-Butyl Benzene	91	10.000	9.995	(1.030)	5796380	60.0000	56.944
78 d4-1,2-Dichlorobenzene	152	10.096	10.091	(1.040)	319220	10.0000	10.111
79 1,2-Dichlorobenzene	146	10.102	10.096	(1.040)	3454789	60.0000	59.963
81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	177614	60.0000	60.103
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	2282324	60.0000	58.784
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	837622	60.0000	58.318
84 Naphthalene	128	11.799	11.799	(1.215)	4103053	60.0000	59.749
85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	1782716	60.0000	57.486

QC Flag Legend

- 1 - Compound response manually integrated.
- i - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i	Calibration Date: 28-JAN-2010
Lab File ID: 01281012.d	Calibration Time: 16:48
Lab Smp Id: 60 0127	Client Smp ID: 60 ppb
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m	
Disc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	483313	2.49
35 1,4-Difluorobenze	723083	361542	1446166	727807	0.65
52 d5-Chlorobenzene	624979	312490	1249958	633826	1.42
75 d4-1,4-Dichlorobe	328841	164420	657682	357565	8.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.08
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/28JAN10.b/01281012.d

Date : 28-JAN-2010 18:05

Client ID: 60 ppb

Sample Info: 60 0127,10,10,0,

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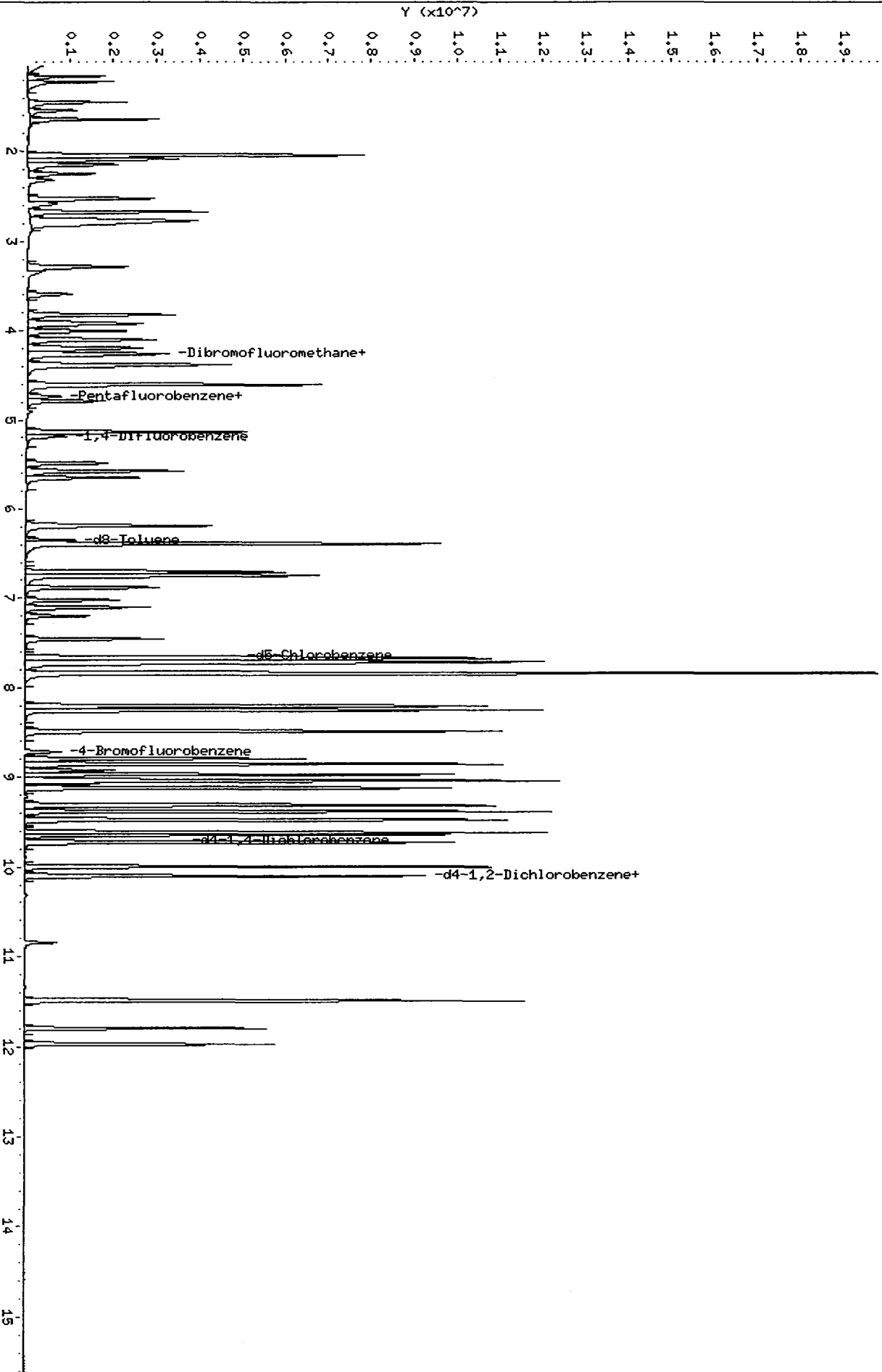
Instrument: nt5.i

Operator: PC

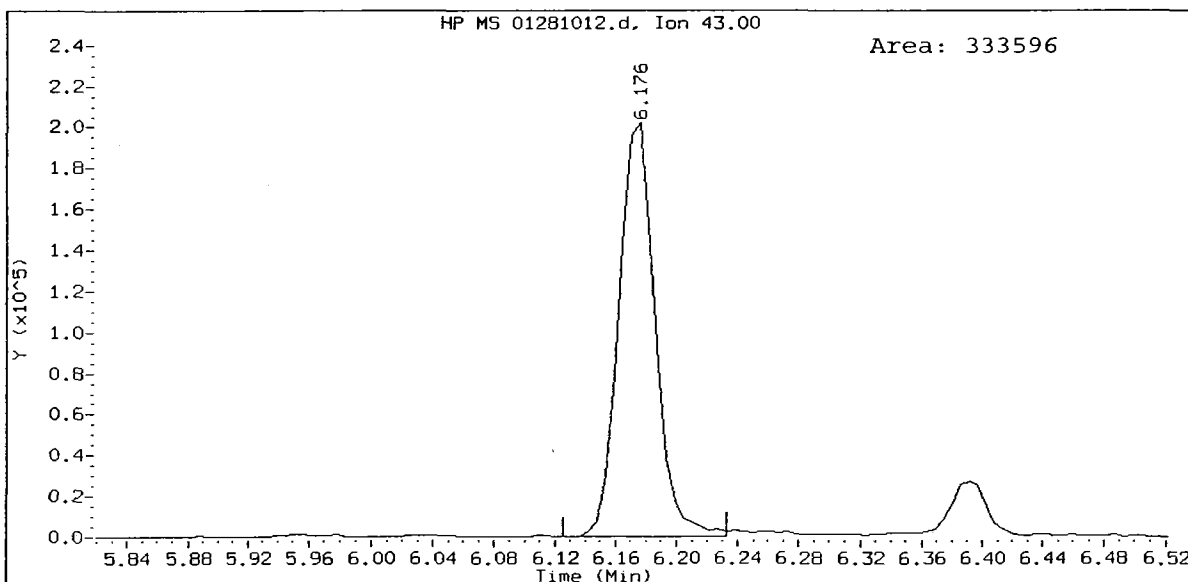
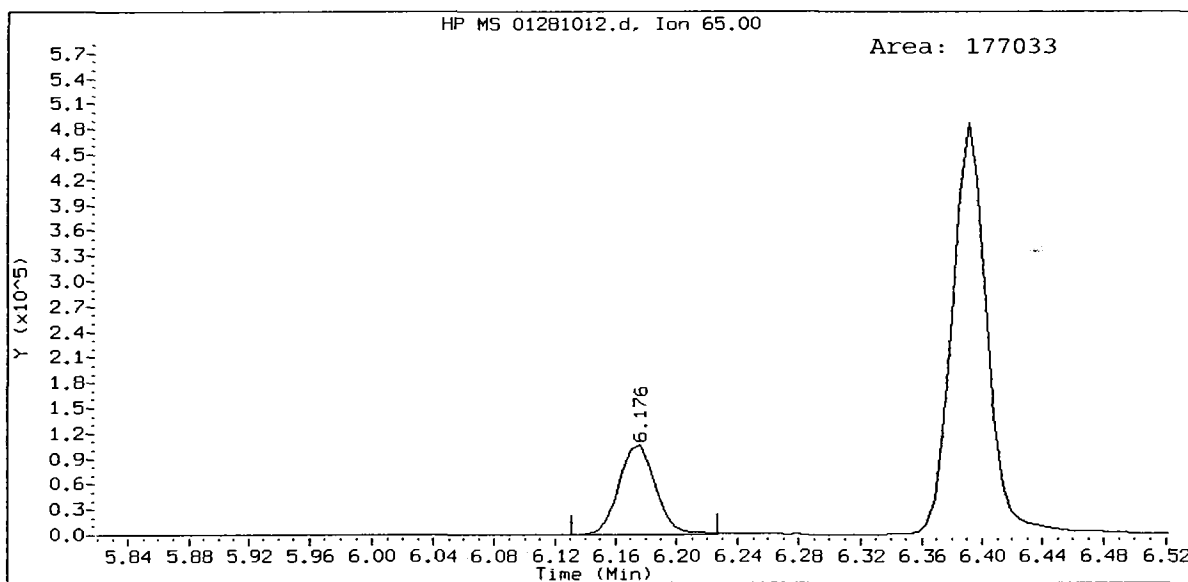
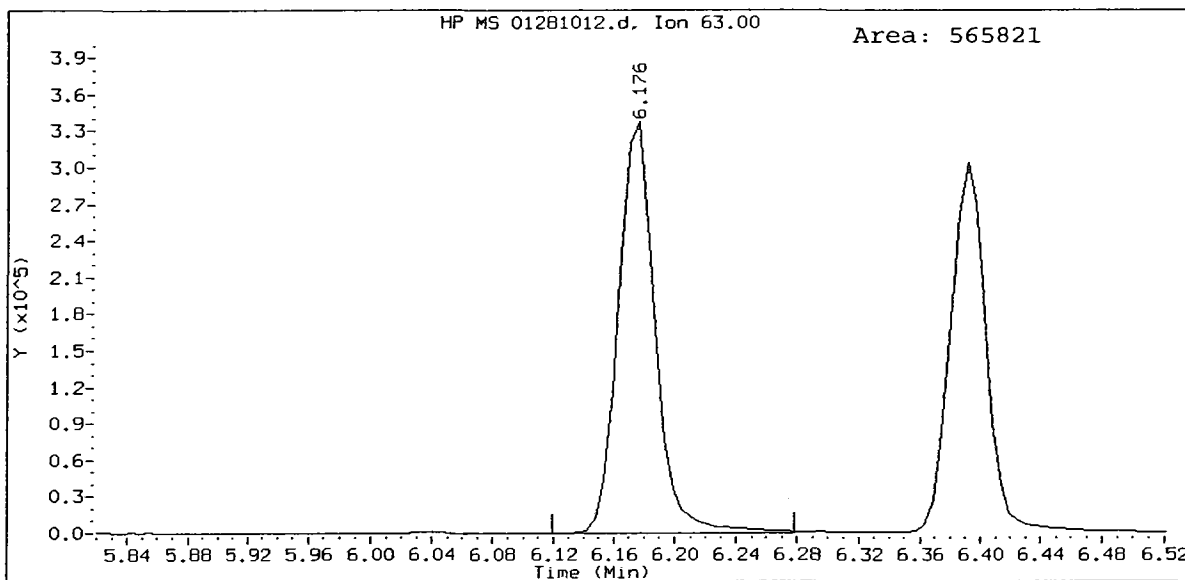
Column diameter: 0.18

Column phase: RTXVMS

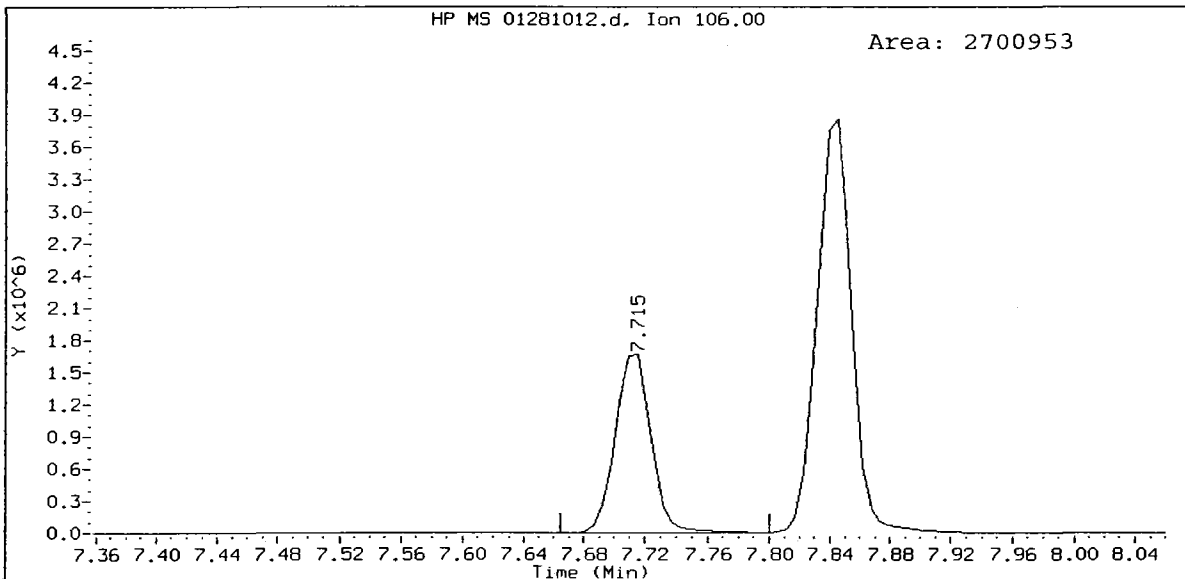
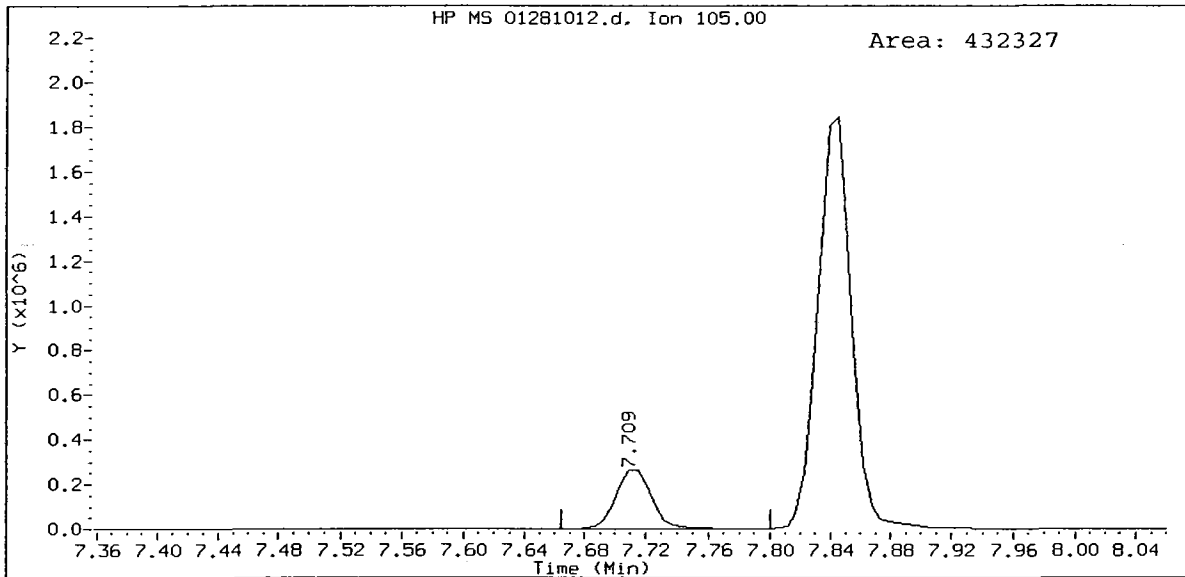
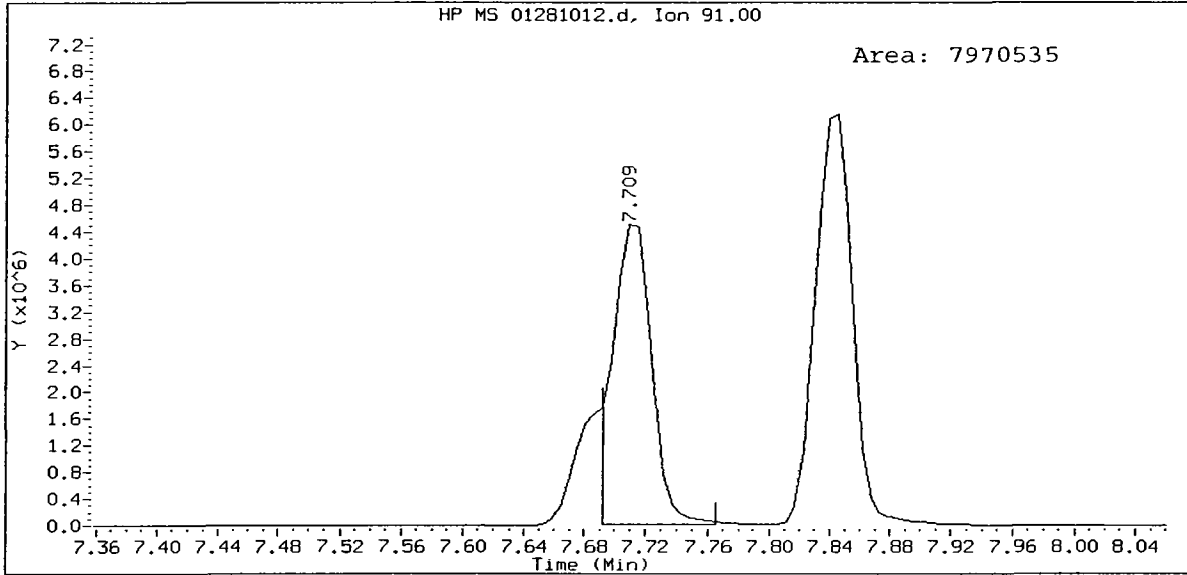
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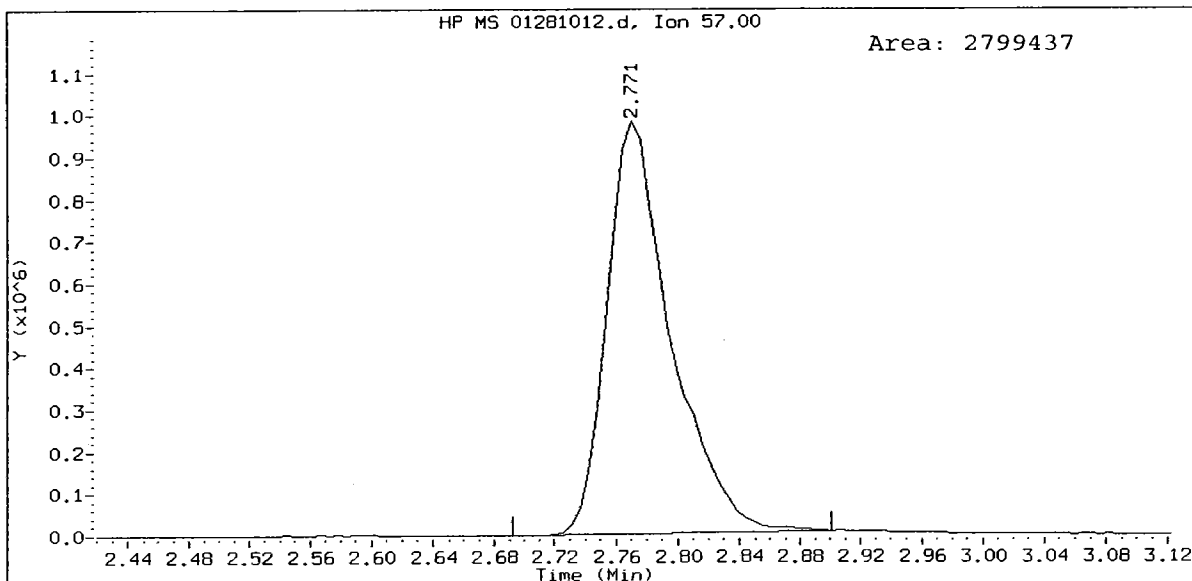
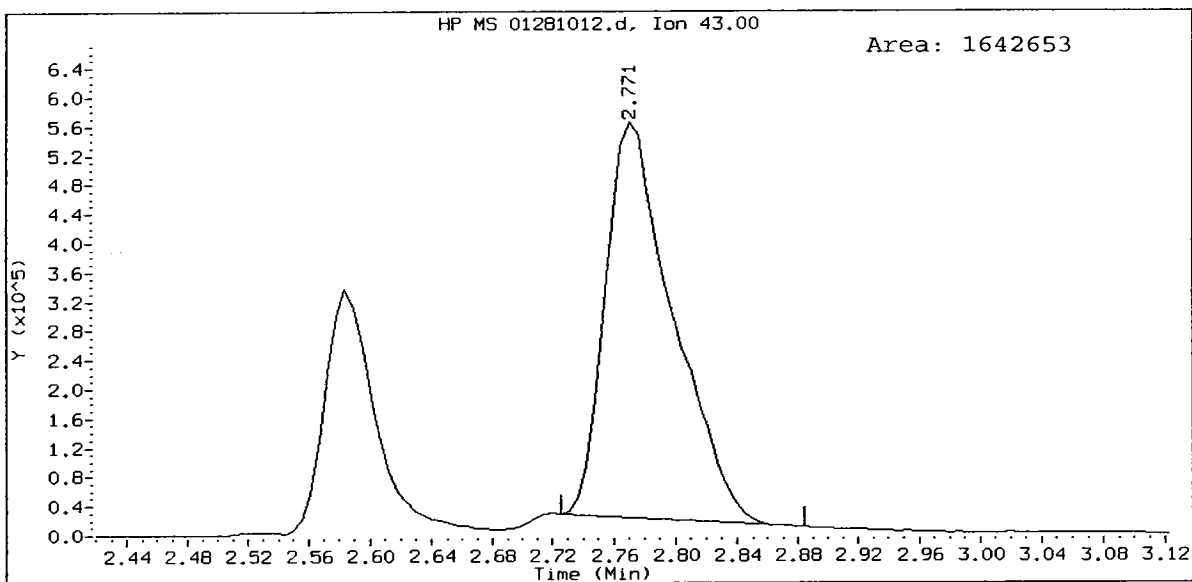
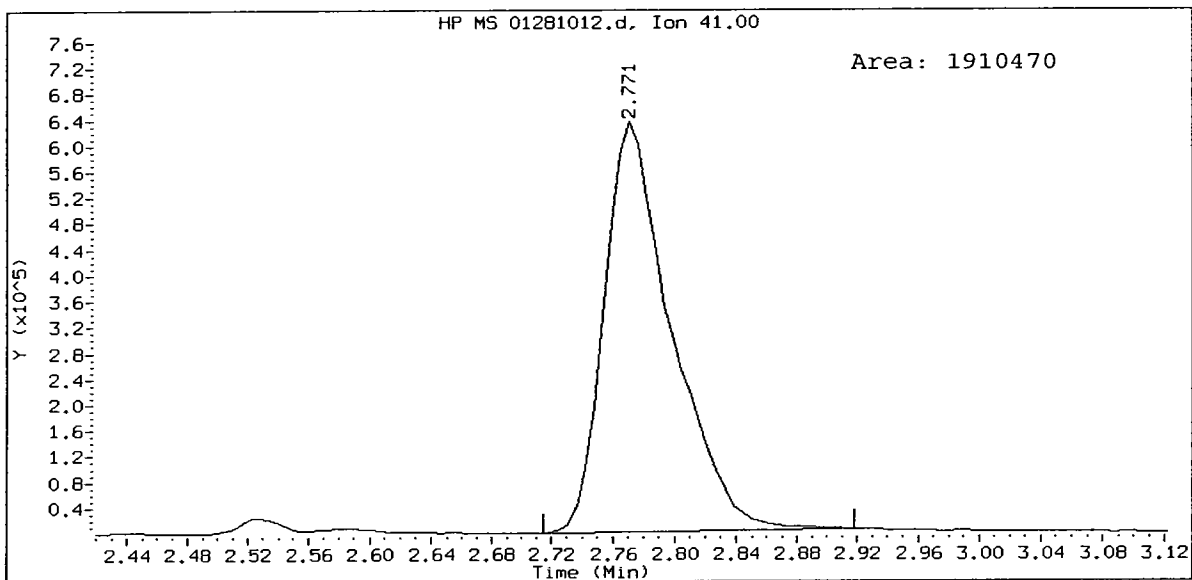


60 0127, /chem1/nt5.i/28JAN10.b/01281012.d
Ethyl Benzene Amount: 57.39



QL34:00238

Hexane Amount: 57.64



PC
1/29/10

Data File: /chem1/nt5.i/28JAN10.b/01281014.d
Report Date: 29-Jan-2010 10:36

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/28JAN10.b/01281014.d
Lab Smp Id: ICV 0127 Client Smp ID: ICV
Inj Date : 28-JAN-2010 18:57
Operator : PC Inst ID: nt5.i
Smp Info : ICV 0127,10,10,0,
Disc Info : 10-
Comment :
Method : /chem1/nt5.i/28JAN10.b/8260c012810L.m
Inj Date : 29-Jan-2010 10:35 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vials bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa+hex.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Compound Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85		1.040	1.034	(0.219)	172429	10.2514	10.251 (M)
172 Hexane	41		2.771	2.771	(0.585)	311718	9.42172	9.422
2 Chloromethane	50		1.170	1.164	(0.247)	231925	9.73683	9.737
3 Vinyl Chloride	62		1.227	1.226	(0.259)	286192	10.0077	10.008
4 Bromomethane	94		1.453	1.453	(0.307)	175869	9.22486	9.225
5 Chloroethane	64		1.543	1.543	(0.326)	191841	10.2147	10.215
6 Trichlorofluoromethane	101		1.651	1.651	(0.348)	325626	9.66251	9.663
12 Acrolein	56		2.324	2.318	(0.490)	86757	68.0234	68.023
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101		2.092	2.092	(0.441)	241966	9.43221	9.432
14 Acetone	43		2.584	2.590	(0.545)	128692	53.1350	53.135
7 1,1-Dichloroethene	96		2.047	2.041	(0.432)	242871	9.09034	9.090
11 Bromoethane	108		2.256	2.250	(0.476)	181727	9.38714	9.387
10 Iodomethane	142		2.149	2.148	(0.453)	394672	10.1446	10.145
13 Methylene Chloride	84		2.528	2.527	(0.533)	258397	9.75322	9.753
18 Acrylonitrile	53		3.354	3.348	(0.708)	34406	8.87110	8.871
16 Methyl tert butyl ether	73		2.805	2.805	(0.592)	540768	10.5347	10.535

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
8 Carbon Disulfide	76	2.052	2.052	(0.433)	833618	9.66024	9.660
15 Trans-1,2-Dichloroethene	96	2.675	2.680	(0.564)	275276	9.44468	9.445
19 Vinyl Acetate	43	3.597	3.597	(0.759)	134240	5.27545	5.275
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	422050	9.88828	9.888
29 2-Butanone	72	4.406	4.405	(0.930)	84287	54.8251	54.825
21 2,2-Dichloropropane	77	3.925	3.925	(0.828)	358708	9.56404	9.564
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.808)	283448	9.75009	9.750
32 Pentafluorobenzene	168	4.740	4.739	(1.000)	482476	10.0000	
23 Chloroform	83	4.100	4.106	(0.865)	410987	9.85128	9.851
22 Bromochloromethane	128	4.004	4.004	(0.845)	117174	9.91079	9.911
25 Dibromofluoromethane	111	4.264	4.270	(0.900)	166824	9.78673	9.787
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	370817	9.83335	9.833
28 1,1-Dichloropropene	75	4.383	4.388	(0.845)	351412	9.70083	9.701
24 Carbon Tetrachloride	117	4.202	4.202	(0.810)	312375	10.1597	10.160
31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.999)	150807	9.90784	9.908
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	231861	9.86084	9.861
30 Benzene	78	4.609	4.609	(0.889)	1112594	10.1831	10.183
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	734098	10.0000	
34 Trichloroethene	130	5.136	5.135	(0.990)	301544	9.88709	9.887
38 1,2-Dichloropropane	63	5.577	5.576	(1.075)	248340	10.3843	10.384
39 Bromodichloromethane	83	5.650	5.650	(1.089)	291948	10.4522	10.452
37 Dibromomethane	93	5.486	5.486	(1.058)	106671	10.0822	10.082
40 2-Chloroethyl Vinyl Ether	63	6.171	6.170	(1.190)	102510	11.8893	11.889
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	238332	55.5968	55.597
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	394510	10.3274	10.327
42 d8-Toluene	98	6.352	6.346	(1.225)	793442	9.93632	9.936
43 Toluene	92	6.391	6.391	(1.232)	751329	10.3035	10.303
46 Trans 1,3-Dichloropropene	75	6.753	6.753	(1.302)	310625	10.0685	10.069
51 2-Hexanone	43	7.455	7.455	(0.975)	347432	58.9117	58.912
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	172284	10.5657	10.566
49 1,3-Dichloropropane	76	7.104	7.104	(0.929)	303262	10.8547	10.855
44 Tetrachloroethene	166	6.708	6.708	(0.877)	306921	10.1165	10.116
48 Chlorodibromomethane	129	7.019	7.019	(0.918)	191895	10.3224	10.322
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	166491	10.4746	10.475
52 d5-Chlorobenzene	117	7.647	7.647	(1.000)	616173	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.002)	797908	10.9455	10.946
54 Ethyl Benzene	91	7.709	7.709	(1.008)	1452646	10.7599	10.760 (M)
55 1,1,1,2-Tetrachloroethane	131	7.726	7.726	(1.010)	259127	10.6874	10.687
56 m,p-xylene	106	7.840	7.839	(1.025)	1093836	21.3620	21.362
57 o-Xylene	106	8.202	8.201	(1.072)	525674	10.6148	10.615
58 Styrene	104	8.252	8.252	(1.079)	856778	10.6020	10.602
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1228664	9.89546	9.895
59 Bromoform	173	8.247	8.247	(0.849)	97406	10.5343	10.534
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	157572	10.1690	10.169
61 4-Bromofluorobenzene	95	8.711	8.716	(1.139)	278845	10.0568	10.057
66 1,2,3-Trichloropropane	110	9.022	9.021	(0.929)	45519	10.4006	10.401
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.072	(0.934)	42417	10.3913	10.391

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	1448086	10.3863	10.386
62 Bromobenzene	156	8.790	8.790	(0.905)	309105	10.3919	10.392
67 1,3,5-Trimethyl Benzene	105	9.039	9.038	(0.931)	1072116	10.4055	10.405
65 2-Chloro Toluene	91	8.965	8.965	(0.923)	893564	10.5479	10.548
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	908044	10.5571	10.557
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	921562	10.3616	10.362
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	1085818	10.4434	10.443
72 S-Butyl Benzene	105	9.469	9.468	(0.975)	1306047	10.2996	10.300
73 4-Isopropyl Toluene	119	9.610	9.610	(0.990)	1099914	10.2863	10.286
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	601187	10.0957	10.096
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	324256	10.0000	(Q)
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	602710	9.94145	9.941
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	924487	10.0152	10.015
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	286137	9.99406	9.994 (Q)
79 1,2-Dichlorobenzene	146	10.102	10.096	(1.040)	534809	10.2359	10.236
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	26164	9.76323	9.763
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	364413	10.3501	10.350
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	135155	10.3765	10.377
84 Naphthalene	128	11.799	11.799	(1.215)	674701	10.8343	10.834
85 1,2,3-Trichlorobenzene	180	11.975	11.974	(1.233)	302225	10.7468	10.747

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- 1 - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 01281014.d
 Lab Smp Id: ICV 0127
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Misc Info: 10-

Calibration Date: 28-JAN-2010
 Calibration Time: 16:48
 Client Smp ID: ICV
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	482476	2.32
35 1,4-Difluorobenze	723083	361542	1446166	734098	1.52
52 d5-Chlorobenzene	624979	312490	1249958	616173	-1.41
75 d4-1,4-Dichlorobe	328841	164420	657682	324256	-1.39

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.01
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.01
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 28JAN10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV 0127 Client Smp ID: ICV
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: voahex.spk Quant Type: ISTD
 Sublist File: voa+hex.sub
 Method File: /chem1/nt5.i/28JAN10.b/8260c012810L.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	10.251	102.51	59-129
172 Hexane	10.000	9.422	94.22	70-130
16 Methyl tert butyl	10.000	10.535	105.35	78-120
2 Chloromethane	10.000	9.737	97.37	66-123
3 Vinyl Chloride	10.000	10.008	100.08	68-121
4 Bromomethane	10.000	9.225	92.25	55-148
5 Chloroethane	10.000	10.215	102.15	47-155
6 Trichlorofluoromet	10.000	9.663	96.63	70-129
12 Acrolein	50.000	68.023	136.05	24-170
9 112Trichloro122Tri	10.000	9.432	94.32	74-127
14 Acetone	50.000	53.135	106.27	70-130
7 1,1-Dichloroethene	10.000	9.090	90.90	72-120
11 Bromoethane	10.000	9.387	93.87	73-131
10 Iodomethane	10.000	10.145	101.45	34-183
13 Methylene Chloride	10.000	9.753	97.53	70-124
8 Carbon Disulfide	10.000	9.660	96.60	66-129
18 Acrylonitrile	10.000	8.871	88.71	71-135
15 Trans-1,2-Dichloro	10.000	9.445	94.45	76-120
19 Vinyl Acetate	10.000	5.275	52.75	49-134
17 1,1-Dichloroethane	10.000	9.888	98.88	75-120
29 2-Butanone	50.000	54.825	109.65	78-131
21 2,2-Dichloropropan	10.000	9.564	95.64	68-121
20 Cis-1,2-Dichloroet	10.000	9.750	97.50	80-120
23 Chloroform	10.000	9.851	98.51	78-120
22 Bromochloromethane	10.000	9.911	99.11	79-120
26 1,1,1-Trichloroeth	10.000	9.833	98.33	76-120
28 1,1-Dichloropropen	10.000	9.701	97.01	78-120
24 Carbon Tetrachlori	10.000	10.160	101.60	70-126
33 1,2-Dichloroethane	10.000	9.861	98.61	78-120
30 Benzene	10.000	10.183	101.83	79-120
34 Trichloroethene	10.000	9.887	98.87	78-120
38 1,2-Dichloropropan	10.000	10.384	103.84	80-120
39 Bromodichlorometha	10.000	10.452	104.52	78-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
37 Dibromomethane	10.000	10.082	100.82	80-120
40 2-Chloroethyl Viny	10.000	11.889	118.89	68-134
45 4-Methyl-2-Pentano	50.000	55.597	111.19	73-131
41 Cis 1,3-dichloropr	10.000	10.327	103.27	78-120
43 Toluene	10.000	10.303	103.03	79-120
46 Trans 1,3-Dichloro	10.000	10.069	100.69	75-120
51 2-Hexanone	50.000	58.912	117.82	75-130
47 1,1,2-Trichloroeth	10.000	10.566	105.66	79-120
49 1,3-Dichloropropan	10.000	10.855	108.55	78-120
44 Tetrachloroethene	10.000	10.116	101.16	72-120
48 Chlorodibromometha	10.000	10.322	103.22	78-120
50 1,2-Dibromoethane	10.000	10.475	104.75	75-120
53 Chlorobenzene	10.000	10.946	109.46	79-120
55 1,1,1,2-Tetrachlor	10.000	10.687	106.87	75-120
54 Ethyl Benzene	10.000	10.760	107.60	78-121
56 m,p-xylene	20.000	21.362	106.81	65-129
57 o-Xylene	10.000	10.615	106.15	76-120
58 Styrene	10.000	10.602	106.02	74-121
60 Isopropyl Benzene	10.000	9.895	98.95	74-120
59 Bromoform	10.000	10.534	105.34	71-120
64 1,1,2,2-Tetrachlor	10.000	10.169	101.69	72-120
66 1,2,3-Trichloropro	10.000	10.401	104.01	73-120
68 Trans-1,4-Dichloro	10.000	10.391	103.91	65-135
63 N-Propyl Benzene	10.000	10.386	103.86	76-121
62 Bromobenzene	10.000	10.392	103.92	72-120
67 1,3,5-Trimethyl Be	10.000	10.405	104.05	74-123
65 2-Chloro Toluene	10.000	10.548	105.48	74-120
69 4-Chloro Toluene	10.000	10.557	105.57	75-120
70 T-Butyl Benzene	10.000	10.362	103.62	73-121
71 1,2,4-Trimethylben	10.000	10.443	104.43	73-124
72 S-Butyl Benzene	10.000	10.300	103.00	75-123
73 4-Isopropyl Toluen	10.000	10.286	102.86	71-125
74 1,3-Dichlorobenzen	10.000	10.096	100.96	72-120
76 1,4-Dichlorobenzen	10.000	9.941	99.41	76-120
77 N-Butyl Benzene	10.000	10.015	100.15	72-124
79 1,2-Dichlorobenzen	10.000	10.236	102.36	75-120
81 1,2-Dibromo 3-Chlo	10.000	9.763	97.63	67-121
83 1,2,4-Trichloroben	10.000	10.350	103.50	71-120
82 Hexachloro 1,3-But	10.000	10.377	103.77	67-124
84 Naphthalene	10.000	10.834	108.34	71-125
85 1,2,3-Trichloroben	10.000	10.747	107.47	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.787	97.87	0-150

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 31 d4-1,2-Dichloroeth	10.000	9.908	99.08	0-132
\$ 42 d8-Toluene	10.000	9.936	99.36	0-130
\$ 61 4-Bromofluorobenze	10.000	10.057	100.57	0-130
\$ 78 d4-1,2-Dichloroben	10.000	9.994	99.94	0-130

Data File: /chem1/nt5.i/28JAN10.br/01281014.d

Date: 28-JAN-2010 18:57

Client ID: ICV

Sample Info: ICV 0127,10,10,0,

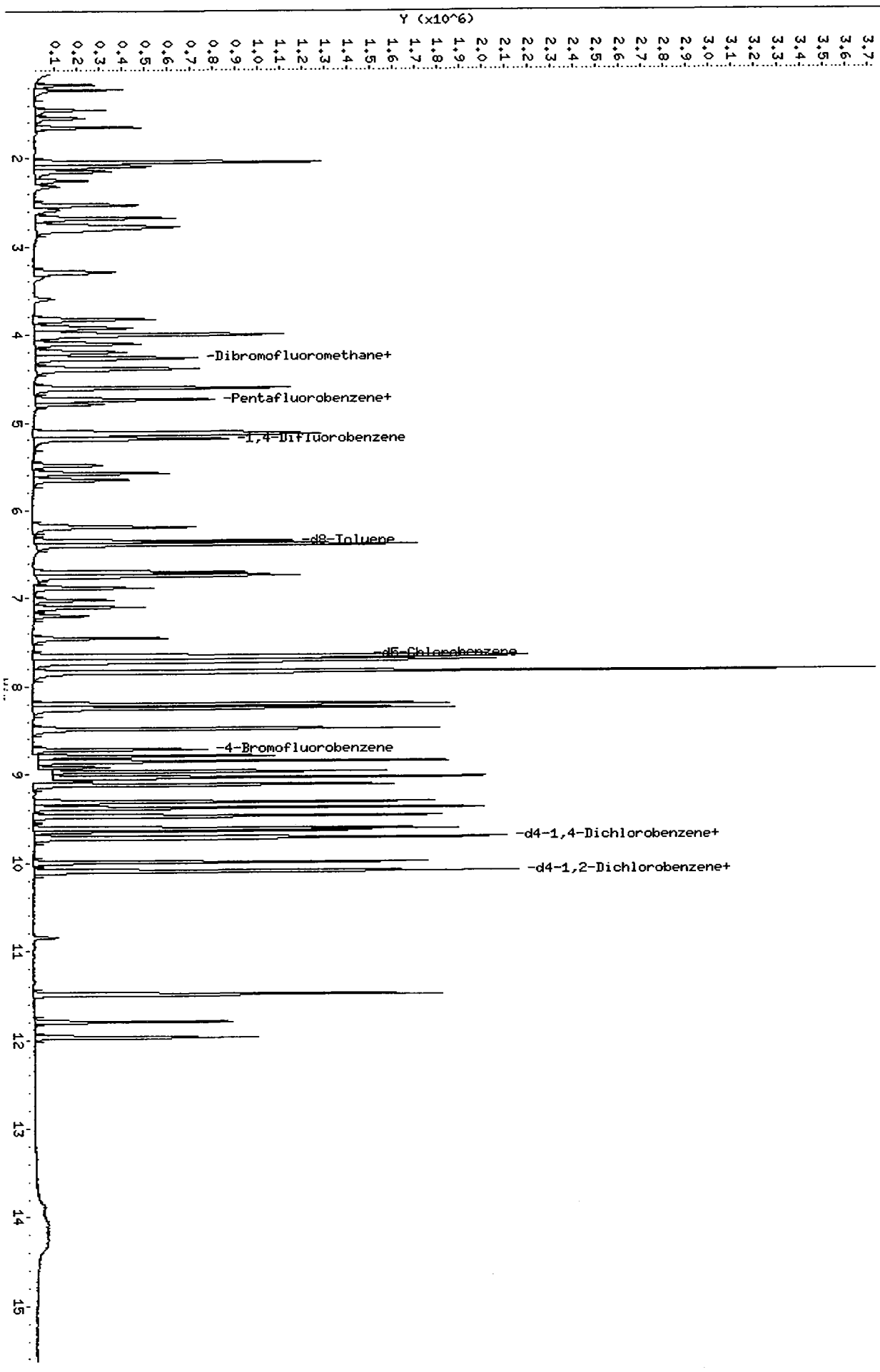
Instrument: nt5.i

Operator: PC

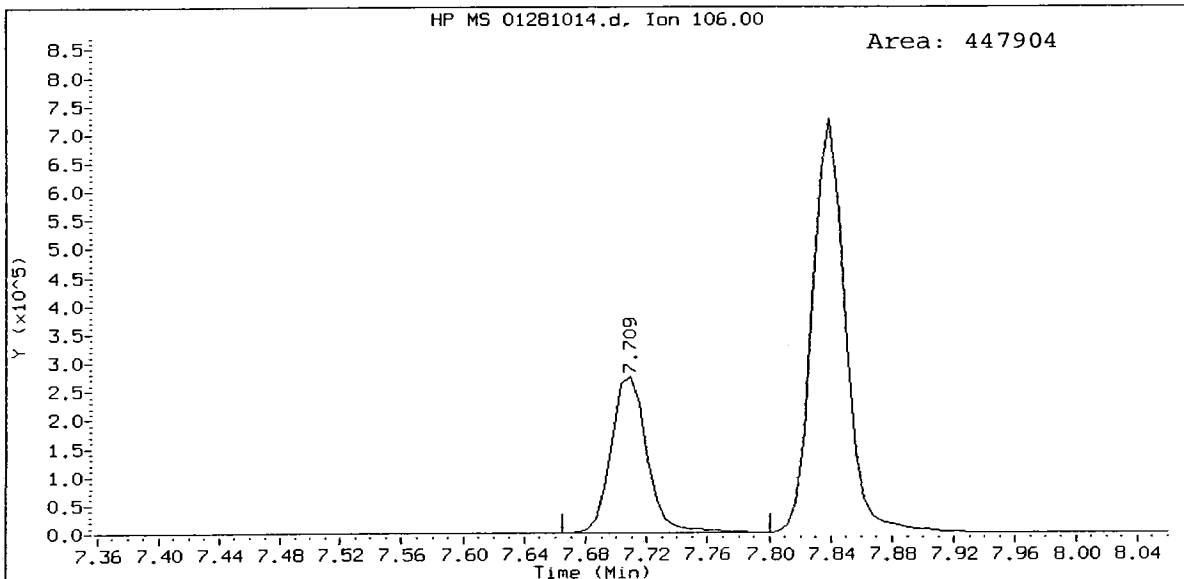
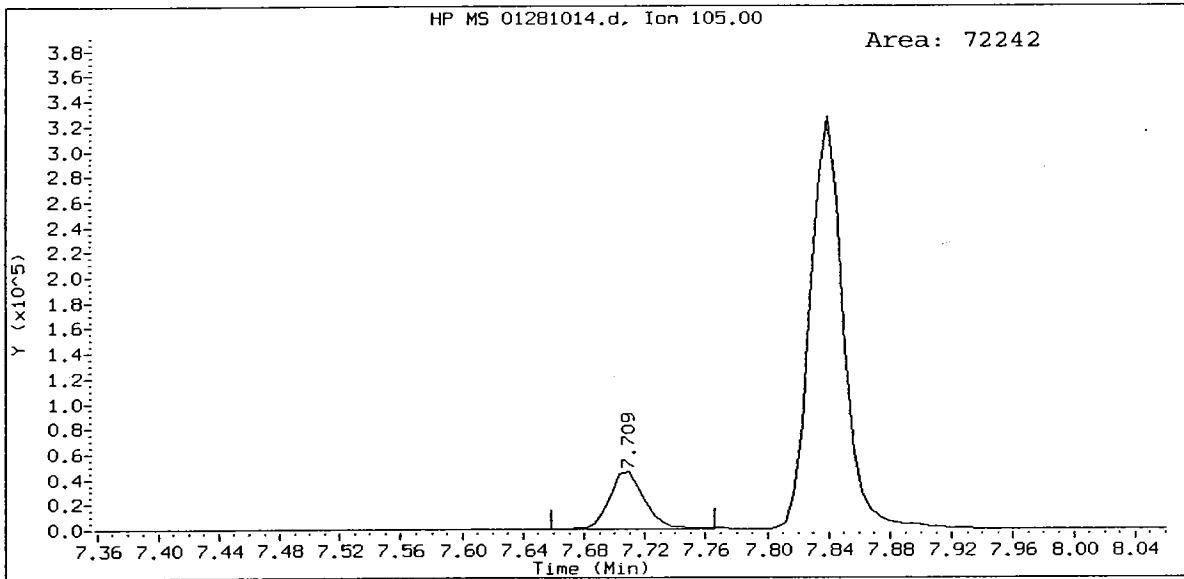
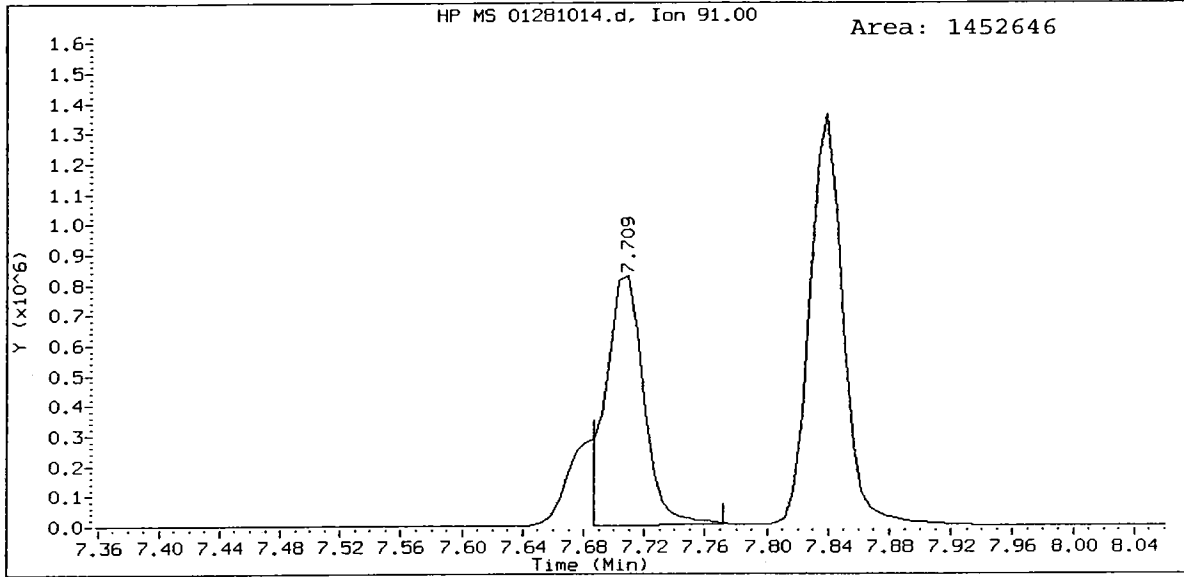
Column diameter: 0.18

Column phase: RTXVHS

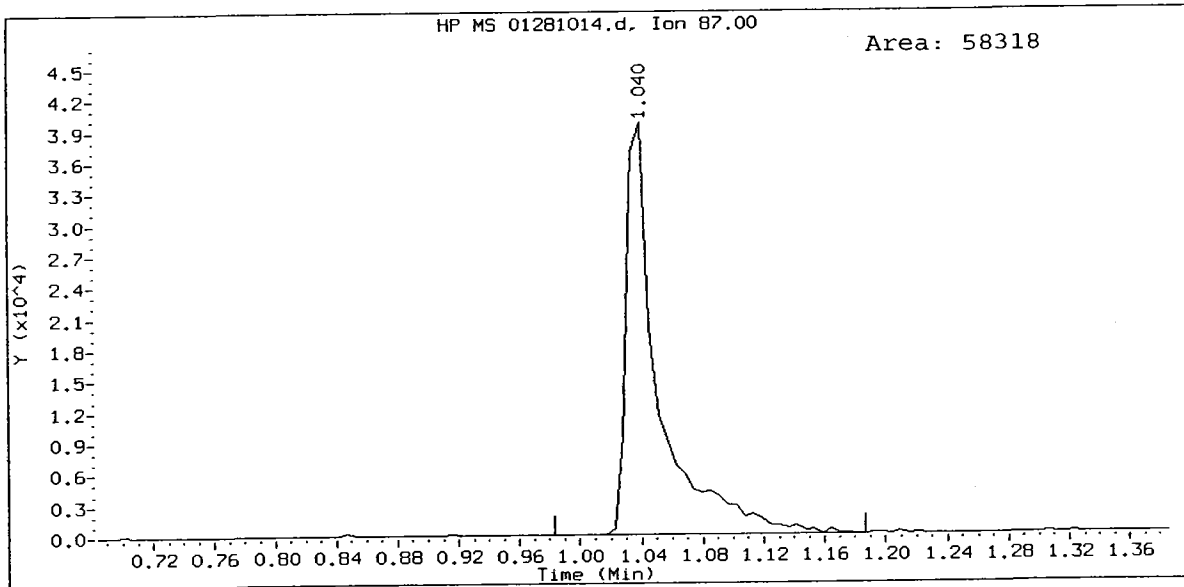
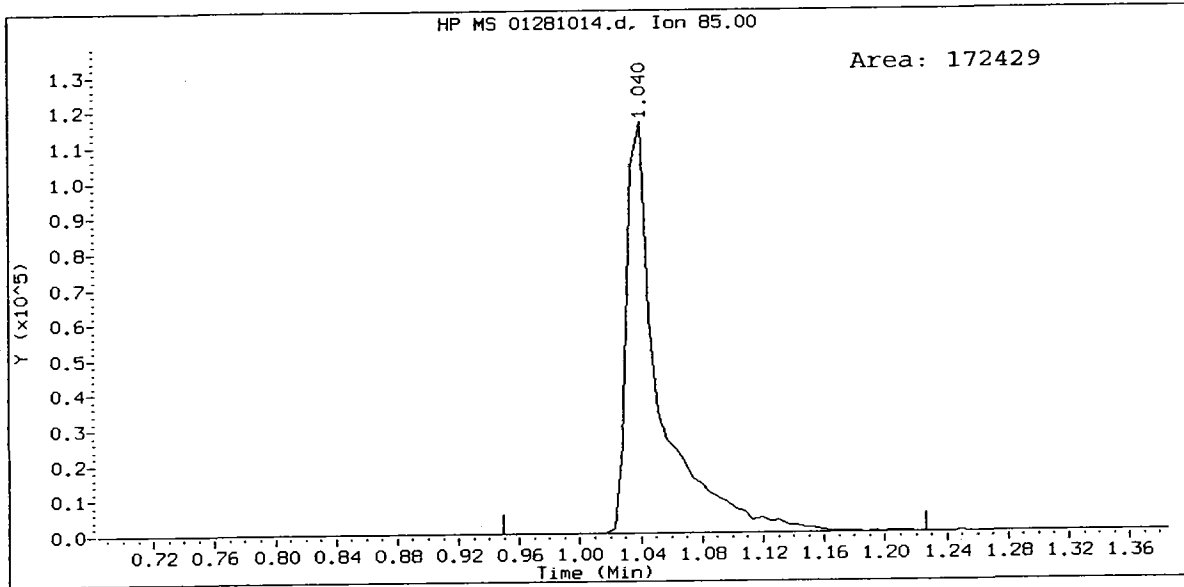
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01281014 : 00247



ICV 0127, /chem1/nt5.i/28JAN10.b/01281014.d
Dichlorodifluoromethane Amount: 10.25



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS SDG No.: QL34

Lab File ID: BFB0222 BFB Injection Date: 02/22/10

Instrument ID: NT10 BFB Injection Time: 1317

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.3
75	30.0 - 66.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 101.0% of mass 95	77.1
175	4.0 - 9.0% of mass 174	5.8 (7.5)1
176	93.0 - 101.0% of mass 174	75.4 (97.8)1
177	5.0 - 9.0% of mass 176	5.0 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	IC002	0020222	02/22/10	1442
02	VSTD8	IC600	6000222	02/22/10	1512
03	VSTD7	IC400	4000222A	02/22/10	1611
04	VSTD6	IC200	2000222	02/22/10	1641
05	VSTD4	IC100	1000222	02/22/10	1711
06	VSTD5	IC040	0400222	02/22/10	1741
07	VSTD3	IC010	0100222	02/22/10	1811
08	VSTD2	IC005	0050222	02/22/10	1841
09	ICV0222	ICV0222	ICV0222A	02/22/10	1912
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

LAB FILE ID: RF0.2: 0020222 RF0.5: 0050222 RF1: 0100222

RF4: 0400222 RF10: 1000222

COMPOUND	RF0.2	RF0.5	RF1	RF4	RF10
Chloromethane		0.486	0.407	0.350	0.342
Vinyl Chloride	0.468	0.481	0.415	0.470	0.431
Bromomethane			0.667	0.570	0.386
Chloroethane	0.334	0.379	0.325	0.395	0.325
Trichlorofluoromethane	0.607	0.656	0.587	0.662	0.615
Acrolein		0.030	0.027	0.030	0.026
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.423	0.450	0.381	0.451	0.406
Acetone		0.056	0.048	0.048	0.041
1,1-Dichloroethene	0.505	0.530	0.453	0.526	0.478
Bromoethane	0.320	0.326	0.290	0.312	0.292
Iodomethane		0.858	0.739	0.721	0.588
Methylene Chloride	0.407	0.427	0.390	0.441	0.404
Acrylonitrile		0.053	0.054	0.063	0.057
Carbon Disulfide	1.613	1.726	1.392	1.711	1.594
Trans-1,2-Dichloroethene	0.528	0.527	0.491	0.545	0.510
Vinyl Acetate	0.467	0.427	0.455	0.477	0.468
1,1-Dichloroethane	0.841	0.836	0.787	0.889	0.856
2-Butanone	0.028	0.029	0.027	0.030	0.030
2,2-Dichloropropane	0.364	0.341	0.325	0.352	0.332
Cis-1,2-Dichloroethene	0.721	0.577	0.550	0.570	0.554
Chloroform	0.881	0.889	0.884	0.949	0.911
Bromochloromethane	0.184	0.199	0.187	0.209	0.197
1,1,1-Trichloroethane	0.692	0.715	0.672	0.750	0.702
1,1-Dichloropropene	0.499	0.489	0.483	0.499	0.495
Carbon Tetrachloride	0.357	0.355	0.352	0.378	0.356
1,2-Dichloroethane	0.310	0.295	0.302	0.313	0.300
Benzene	1.453	1.359	1.372	1.432	1.402
Trichloroethene	0.346	0.343	0.352	0.377	0.405
1,2-Dichloropropane	0.300	0.296	0.292	0.312	0.304
Bromodichloromethane	0.372	0.361	0.362	0.396	0.390
Dibromomethane	0.112	0.114	0.116	0.131	0.123
2-Chloroethyl Vinyl Ether		0.064	0.071	0.073	0.074
4-Methyl-2-Pentanone	0.050	0.050	0.047	0.056	0.052
Cis 1,3-dichloropropene	0.380	0.386	0.391	0.436	0.441
Toluene	0.957	0.937	0.913	0.977	0.948
Trans 1,3-Dichloropropene	0.266	0.267	0.270	0.314	0.329
2-Hexanone	0.093	0.083	0.080	0.092	0.086

FORM VI VOA

QL34 : 00251

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

LAB FILE ID: RF0.2: 0020222 RF0.5: 0050222 RF1: 0100222
RF4: 0400222 RF10: 1000222

COMPOUND	RF0.2	RF0.5	RF1	RF4	RF10
1,1,2-Trichloroethane	0.184	0.180	0.177	0.194	0.188
1,3-Dichloropropane	0.366	0.349	0.350	0.372	0.365
Tetrachloroethene	0.471	0.428	0.421	0.432	0.430
Chlorodibromomethane	0.237	0.227	0.224	0.246	0.245
1,2-Dibromoethane	0.149	0.153	0.152	0.176	0.171
Chlorobenzene	1.101	1.026	1.009	1.073	1.048
Ethyl Benzene	2.120	2.005	1.967	2.091	2.027
1,1,1,2-Tetrachloroethane	0.322	0.323	0.313	0.337	0.322
m,p-xylene	0.769	0.739	0.724	0.779	0.752
o-Xylene	0.718	0.666	0.657	0.721	0.684
Styrene	1.082	1.042	1.013	1.139	1.098
Bromoform	0.300	0.257	0.278	0.287	0.299
1,1,2,2-Tetrachloroethane	0.500	0.443	0.457	0.452	0.432
1,2,3-Trichloropropane	0.136	0.130	0.136	0.139	0.134
Trans-1,4-Dichloro 2-Butene			0.056	0.068	0.076
N-Propyl Benzene	6.478	5.686	6.046	5.820	5.799
Bromobenzene	1.056	0.918	1.009	0.946	0.973
Isopropyl Benzene	5.531	5.046	5.301	4.995	5.001
2-Chloro Toluene	4.129	3.630	3.819	3.656	3.628
4-Chloro Toluene	3.540	3.099	3.225	3.164	3.185
T-Butyl Benzene	3.802	3.351	3.403	3.337	3.146
1,3,5-Trimethyl Benzene	4.184	3.856	3.958	3.944	3.798
1,2,4-Trimethylbenzene	4.040	3.683	3.732	3.804	3.653
S-Butyl Benzene	5.588	5.016	4.940	5.037	4.701
4-Isopropyl Toluene	4.223	3.818	3.707	3.924	3.631
1,3-Dichlorobenzene	1.904	1.666	1.631	1.726	1.671
1,4-Dichlorobenzene	1.836	1.620	1.564	1.633	1.579
N-Butyl Benzene	3.743	3.144	3.085	3.392	3.096
1,2-Dichlorobenzene	1.502	1.293	1.276	1.294	1.215
1,2-Dibromo 3-Chloropropane	0.028	0.032	0.042	0.043	0.041
1,2,4-Trichlorobenzene	0.823	0.550	0.598	0.590	0.580
Hexachloro 1,3-Butadiene		0.425	0.434	0.394	0.347
Naphthalene		0.880	0.932	0.870	0.804
1,2,3-Trichlorobenzene		0.433	0.482	0.442	0.415
Methyl tert butyl ether	0.766	0.770	0.719	0.758	0.727
Dichlorodifluoromethane	0.253	0.286	0.219	0.261	0.276
Allyl Chloride					

FORM VI VOA

QL34: 00252

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

LAB FILE ID: RF0.2: 0020222 RF0.5: 0050222 RF1: 0100222
RF4: 0400222 RF10: 1000222

COMPOUND	RF0.2	RF0.5	RF1	RF4	RF10
Methyl Methacrylate					
Cyclohexanone					
d4-1,2-Dichloroethane	0.358	0.363	0.360	0.379	0.381
d8-Toluene	1.210	1.227	1.225	1.227	1.206
4-Bromofluorobenzene	0.418	0.423	0.401	0.435	0.419
d4-1,2-Dichlorobenzene	0.794	0.807	0.789	0.788	0.761
Dibromofluoromethane	0.404	0.410	0.409	0.424	0.420

FORM VI VOA

QL34:00253

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

LAB FILE ID: RF20: 2000222

RF40: 4000222A

RF60: 6000222

COMPOUND	RF20	RF40	RF60
Chloromethane	0.337	0.370	0.332
Vinyl Chloride	0.434	0.442	0.427
Bromomethane	0.373	0.391	0.382
Chloroethane	0.332	0.377	0.335
Trichlorofluoromethane	0.603	0.661	0.624
Acrolein	0.027	0.029	0.030
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.397	0.440	0.399
Acetone	0.041	0.044	0.044
1,1-Dichloroethene	0.456	0.550	0.483
Bromoethane	0.288	0.304	0.297
Iodomethane	0.593	0.646	0.561
Methylene Chloride	0.387	0.445	0.416
Acrylonitrile	0.057	0.062	0.064
Carbon Disulfide	1.545	1.792	1.664
Trans-1,2-Dichloroethene	0.504	0.554	0.524
Vinyl Acetate	0.469	0.458	0.481
1,1-Dichloroethane	0.837	0.886	0.884
2-Butanone	0.030	0.030	0.032
2,2-Dichloropropane	0.345	0.318	0.334
Cis-1,2-Dichloroethene	0.542	0.589	0.564
Chloroform	0.885	0.950	0.910
Bromochloromethane	0.196	0.203	0.209
1,1,1-Trichloroethane	0.690	0.706	0.722
1,1-Dichloropropene	0.492	0.511	0.504
Carbon Tetrachloride	0.359	0.372	0.376
1,2-Dichloroethane	0.292	0.299	0.300
Benzene	1.368	1.435	1.398
Trichloroethene	0.388	0.398	0.397
1,2-Dichloropropane	0.300	0.314	0.311
Bromodichloromethane	0.388	0.396	0.406
Dibromomethane	0.121	0.125	0.129
2-Chloroethyl Vinyl Ether	0.074	0.074	0.075
4-Methyl-2-Pentanone	0.053	0.058	0.062
Cis 1,3-dichloropropene	0.448	0.460	0.476
Toluene	0.938	0.998	0.985
Trans 1,3-Dichloropropene	0.338	0.357	0.373
2-Hexanone	0.085	0.089	0.090

FORM VI VOA

QL34: 00254

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

LAB FILE ID: RF20: 2000222

RF40: 4000222A

RF60: 6000222

COMPOUND	RF20	RF40	RF60
1,1,2-Trichloroethane	0.183	0.190	0.194
1,3-Dichloropropane	0.356	0.354	0.355
Tetrachloroethene	0.422	0.441	0.432
Chlorodibromomethane	0.243	0.249	0.250
1,2-Dibromoethane	0.169	0.175	0.180
Chlorobenzene	1.026	1.078	1.046
Ethyl Benzene	1.894	1.996	1.853
1,1,1,2-Tetrachloroethane	0.309	0.330	0.316
m,p-xylene	0.736	0.782	0.729
o-Xylene	0.657	0.696	0.650
Styrene	1.060	1.104	1.037
Bromoform	0.318	0.358	0.376
1,1,2,2-Tetrachloroethane	0.423	0.458	0.461
1,2,3-Trichloropropane	0.135	0.144	0.142
Trans-1,4-Dichloro 2-Butene	0.086	0.102	0.110
N-Propyl Benzene	5.936	6.502	5.954
Bromobenzene	0.997	1.098	1.088
Isopropyl Benzene	5.119	5.830	5.407
2-Chloro Toluene	3.644	4.018	3.763
4-Chloro Toluene	3.231	3.494	3.297
T-Butyl Benzene	3.088	3.324	2.915
1,3,5-Trimethyl Benzene	3.785	4.072	3.601
1,2,4-Trimethylbenzene	3.545	3.725	3.340
S-Butyl Benzene	4.539	4.754	4.188
4-Isopropyl Toluene	3.479	3.565	3.209
1,3-Dichlorobenzene	1.628	1.701	1.636
1,4-Dichlorobenzene	1.539	1.608	1.562
N-Butyl Benzene	2.930	2.996	2.873
1,2-Dichlorobenzene	1.170	1.223	1.230
1,2-Dibromo 3-Chloropropane	0.042	0.046	0.049
1,2,4-Trichlorobenzene	0.571	0.616	0.644
Hexachloro 1,3-Butadiene	0.324	0.331	0.334
Naphthalene	0.775	0.811	0.842
1,2,3-Trichlorobenzene	0.381	0.392	0.405
Methyl tert butyl ether	0.711	0.719	0.683
Dichlorodifluoromethane	0.266	0.217	0.229
Allyl Chloride			

FORM VI VOA

QL34: 00255

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

LAB FILE ID: RF20: 2000222

RF40: 4000222A

RF60: 6000222

COMPOUND	RF20	RF40	RF60
Methyl Methacrylate			
Cyclohexanone			
d4-1,2-Dichloroethane	0.368	0.358	0.366
d8-Toluene	1.216	1.223	1.215
4-Bromofluorobenzene	0.400	0.388	0.361
d4-1,2-Dichlorobenzene	0.747	0.756	0.780
Dibromofluoromethane	0.424	0.419	0.427

FORM VI VOA

QL34 : 00256

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
Chloromethane	AVRG	0.375	14.8
Vinyl Chloride	AVRG	0.446	5.3
Bromomethane	LINR		0.9981
Chloroethane	AVRG	0.350	8.1
Trichlorofluoromethane	AVRG	0.627	4.6
Acrolein	AVRG	0.029	6.2
1,1,2-Trichloro-2,2-Trifluoroethane	AVRG	0.418	6.4
Acetone	AVRG	0.046	11.0
1,1-Dichloroethene	AVRG	0.498	7.2
Bromoethane	AVRG	0.304	4.7
Iodomethane	AVRG	0.672	15.8
Methylene Chloride	AVRG	0.414	5.2
Acrylonitrile	AVRG	0.059	7.5
Carbon Disulfide	AVRG	1.630	7.6
Trans-1,2-Dichloroethene	AVRG	0.523	4.0
Vinyl Acetate	AVRG	0.463	3.6
1,1-Dichloroethane	AVRG	0.852	4.1
2-Butanone	AVRG	0.030	5.0
2,2-Dichloropropane	AVRG	0.339	4.4
Cis-1,2-Dichloroethene	AVRG	0.583	9.9
Chloroform	AVRG	0.908	3.1
Bromochloromethane	AVRG	0.198	4.6
1,1,1-Trichloroethane	AVRG	0.706	3.3
1,1-Dichloropropene	AVRG	0.496	1.8
Carbon Tetrachloride	AVRG	0.363	2.9
1,2-Dichloroethane	AVRG	0.302	2.3
Benzene	AVRG	1.402	2.5
Trichloroethene	AVRG	0.376	6.7
1,2-Dichloropropane	AVRG	0.304	2.6
Bromodichloromethane	AVRG	0.384	4.4
Dibromomethane	AVRG	0.121	5.6
2-Chloroethyl Vinyl Ether	AVRG	0.072	4.9
4-Methyl-2-Pentanone	AVRG	0.054	8.9
Cis 1,3-dichloropropene	AVRG	0.427	8.6
Toluene	AVRG	0.957	3.0
Trans 1,3-Dichloropropene	AVRG	0.314	13.5
2-Hexanone	AVRG	0.087	5.3

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM VI VOA

QL34: 00257

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
1,1,2-Trichloroethane	AVRG	0.186	3.4
1,3-Dichloropropane	AVRG	0.358	2.3
Tetrachloroethene	AVRG	0.435	3.7
Chlorodibromomethane	AVRG	0.240	4.1
1,2-Dibromoethane	AVRG	0.165	7.4
Chlorobenzene	AVRG	1.051	2.9
Ethyl Benzene	AVRG	1.994	4.5
1,1,1,2-Tetrachloroethane	AVRG	0.322	2.8
m,p-xylene	AVRG	0.752	3.0
o-Xylene	AVRG	0.681	4.1
Styrene	AVRG	1.072	3.9
Bromoform	AVRG	0.309	13.0
1,1,2,2-Tetrachloroethane	AVRG	0.453	5.1
1,2,3-Trichloropropane	AVRG	0.137	3.4
Trans-1,4-Dichloro 2-Butene	2ORDR		0.9989
N-Propyl Benzene	AVRG	6.028	5.1
Bromobenzene	AVRG	1.011	6.5
Isopropyl Benzene	AVRG	5.279	5.6
2-Chloro Toluene	AVRG	3.786	5.1
4-Chloro Toluene	AVRG	3.279	4.8
T-Butyl Benzene	AVRG	3.296	8.0
1,3,5-Trimethyl Benzene	AVRG	3.900	4.6
1,2,4-Trimethylbenzene	AVRG	3.690	5.4
S-Butyl Benzene	AVRG	4.845	8.5
4-Isopropyl Toluene	AVRG	3.694	8.2
1,3-Dichlorobenzene	AVRG	1.695	5.4
1,4-Dichlorobenzene	AVRG	1.618	5.8
N-Butyl Benzene	AVRG	3.157	9.0
1,2-Dichlorobenzene	AVRG	1.275	7.9
1,2-Dibromo 3-Chloropropane	AVRG	0.040	17.4
1,2,4-Trichlorobenzene	AVRG	0.622	13.9
Hexachloro 1,3-Butadiene	AVRG	0.370	12.6
Naphthalene	AVRG	0.845	6.3
1,2,3-Trichlorobenzene	AVRG	0.421	8.1
Methyl tert butyl ether	AVRG	0.732	4.2
Dichlorodifluoromethane	AVRG	0.251	10.6
Allyl Chloride	AVRG	99999	

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM VI VOA

QL34 : 00258

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Calibration Date: 02/22/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Methyl Methacrylate	AVRG	99999	
Cyclohexanone	AVRG	99999	
d4-1,2-Dichloroethane	AVRG	0.367	2.4
d8-Toluene	AVRG	1.218	0.6
4-Bromofluorobenzene	AVRG	0.406	5.8
d4-1,2-Dichlorobenzene	AVRG	0.778	2.7
Dibromofluoromethane	AVRG	0.417	2.0

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
 End Cal Date : 22-FEB-2010 18:41
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/nt10.i/22FEB10.b/0020222.d
 Level 2: /chem1/nt10.i/22FEB10.b/0050222.d
 Level 3: /chem1/nt10.i/22FEB10.b/0100222.d
 Level 4: /chem1/nt10.i/22FEB10.b/0400222.d
 Level 5: /chem1/nt10.i/22FEB10.b/1000222.d
 Level 6: /chem1/nt10.i/22FEB10.b/2000222.d
 Level 7: /chem1/nt10.i/22FEB10.b/4000222a.d
 Level 8: /chem1/nt10.i/22FEB10.b/6000222.d

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
1 Dichlorodifluoromethane	0.25294 0.21665	0.28658 0.22883	0.21875	0.26125	0.27561	0.26586	0.25081	10.562
2 Chloromethane	++++ 0.37044	0.48652 0.33248	0.40683	0.35031	0.34244	0.33717	0.37517	14.753
3 Vinyl Chloride	0.46764 0.44202	0.48122 0.42683	0.41548	0.47031	0.43078	0.43418	0.44606	5.350
4 Bromomethane	++++ 0.39073	++++ 0.38185	0.66712	0.56954	0.38566	0.37331	0.46137	27.216 <-
5 Chloroethane	0.33438 0.37694	0.37875 0.33478	0.32507	0.39547	0.32526	0.33163	0.35028	8.122
6 Trichlorofluoromethane	0.60714 0.66063	0.65610 0.62382	0.58750	0.66229	0.61508	0.60334	0.62699	4.626

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
 End Cal Date : 22-FEB-2010 18:41
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
7 Allyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Acrolein	0.02942	0.03028	0.02730	0.03060	0.02630	0.02723	0.02879	6.222
9 112Trichloro122Trifluoroethan	0.42345	0.44968	0.38082	0.45142	0.40616	0.39716	0.41839	6.354
10 Acetone	0.04422	0.04428	0.04813	0.04820	0.04113	0.04101	0.04608	11.052
11 1,1-Dichloroethene	0.54994	0.48342	0.45277	0.52587	0.47806	0.45623	0.49765	7.187
12 Bromoethane	0.30357	0.29734	0.29003	0.31212	0.29214	0.28849	0.30371	4.695
13 Iodomethane	0.64658	0.56133	0.73944	0.72087	0.58843	0.59329	0.67258	15.789
14 Methylene Chloride	0.44475	0.41618	0.39028	0.44063	0.40359	0.38733	0.41454	5.201
15 Acrylonitrile	0.06231	0.06386	0.05402	0.06293	0.05723	0.05748	0.05868	7.506

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
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 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
16 Methyl tert butyl ether	0.76616 0.71937	0.76991 0.68325	0.71867	0.75818	0.72710	0.71123	0.73174	4.151
17 Carbon Disulfide	1.61297 1.79174	1.72583 1.66368	1.39225	1.71067	1.59361	1.54525	1.62950	7.634
18 Trans-1,2-Dichloroethene	0.52788 0.55433	0.52743 0.52357	0.49081	0.54509	0.50976	0.50441	0.52291	4.005
19 Methyl Methacrylate	++++ ++++	++++ ++++	++++	++++	++++	++++	++++	++++
20 Vinyl Acetate	0.46744 0.45832	0.42668 0.48090	0.45467	0.47702	0.46799	0.46881	0.46273	3.658
21 1,1-Dichloroethane	0.84077 0.88600	0.83559 0.88355	0.78661	0.88899	0.85637	0.83746	0.85192	4.071
22 2-Butanone	0.02818 0.03047	0.02902 0.03209	0.02737	0.03056	0.02976	0.02964	0.02964	4.978
23 2,2-Dichloropropane	0.36371 0.31784	0.34108 0.33431	0.32504	0.35243	0.33254	0.34486	0.33898	4.370
24 Cis-1,2-Dichloroethene	0.72098 0.58940	0.57717 0.56405	0.54986	0.56964	0.55382	0.54224	0.58340	9.881

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled
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 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
26 Chloroform	0.88149 0.95016	0.88897 0.91053	0.88386	0.94940	0.91106	0.88543	0.90761	3.134
27 Bromochloromethane	0.18428 0.20335	0.19916 0.20914	0.18727	0.20881	0.19682	0.19646	0.19816	4.584
29 1,1,1-Trichloroethane	0.69175 0.70596	0.71531 0.72182	0.67222	0.74956	0.70153	0.68961	0.70597	3.330
30 1,1-Dichloropropene	0.49940 0.51133	0.48921 0.50361	0.48303	0.49886	0.49475	0.49155	0.49647	1.780
31 Carbon Tetrachloride	0.35686 0.37228	0.35518 0.37623	0.35188	0.37773	0.35612	0.35940	0.36321	2.870
33 1,2-Dichloroethane	0.30982 0.29949	0.29537 0.30038	0.30188	0.31297	0.29975	0.29240	0.30151	2.276
34 Benzene	1.45273 1.43532	1.35928 1.39802	1.37257	1.43199	1.40249	1.36822	1.40257	2.474
36 Trichloroethene	0.34602 0.39802	0.34284 0.39734	0.35210	0.37728	0.40527	0.38766	0.37582	6.750
37 1,2-Dichloropropane	0.30010 0.31380	0.29648 0.31082	0.29192	0.31168	0.30427	0.30000	0.30363	2.594

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
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 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
38 Bromodichloromethane	0.37206 0.39643	0.36144 0.40624	0.36157	0.39633	0.38972	0.38817	0.38400	4.409
39 Dibromomethane	0.11202 0.12464	0.11427 0.12862	0.11559	0.13082	0.12347	0.12129	0.12134	5.643
40 2-Chloroethyl Vinyl Ether	++++ 0.07375	0.06453 0.07471	0.07092	0.07349	0.07363	0.07352	0.07208	4.890
41 4-Methyl-2-Pentanone	0.05051 0.05850	0.04981 0.06151	0.04741	0.05627	0.05173	0.05273	0.05356	8.928
42 Cis 1,3-dichloropropene	0.37985 0.46044	0.38559 0.47624	0.39139	0.43595	0.44119	0.44827	0.42736	8.612
44 Toluene	0.95725 0.99774	0.93687 0.98493	0.91346	0.97699	0.94807	0.93797	0.95666	2.952
45 Trans 1,3-Dichloropropene	0.26621 0.35688	0.26696 0.37261	0.27010	0.31354	0.32922	0.33842	0.31424	13.461
46 2-Hexanone	0.09349 0.08890	0.08261 0.08981	0.08004	0.09201	0.08646	0.08473	0.08726	5.327
47 1,1,2-Trichloroethane	0.18416 0.19016	0.17994 0.19385	0.17663	0.19428	0.18815	0.18312	0.18629	3.441

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 End Cal Date : 22-FEB-2010 18:41
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 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
48 1,3-Dichloropropane	0.36619	0.34895	0.34959	0.37196	0.36526	0.35607		
	0.35435	0.35478					0.35839	2.342
49 Tetrachloroethene	0.47111	0.42754	0.42105	0.43187	0.43056	0.42250		
	0.44085	0.43222					0.43471	3.670
50 Chlorodibromomethane	0.23746	0.22691	0.22455	0.24624	0.24502	0.24296		
	0.24910	0.24985					0.24026	4.068
51 1,2-Dibromoethane	0.14946	0.15269	0.15151	0.17639	0.17062	0.16869		
	0.17474	0.17954					0.16545	7.418
53 Chlorobenzene	1.10107	1.02642	1.00938	1.07281	1.04858	1.02581		
	1.07751	1.04651					1.05101	2.940
54 Ethyl Benzene	2.12039	2.00487	1.96691	2.09139	2.02694	1.89356		
	1.99637	1.85349					1.99424	4.534
55 1,1,1,2-Tetrachloroethane	0.32244	0.32317	0.31303	0.33710	0.32168	0.30927		
	0.33020	0.31567					0.32157	2.826
56 m,p-xylene	0.76902	0.73944	0.72384	0.77930	0.75259	0.73649		
	0.78253	0.72928					0.75156	3.048
57 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

Analytical Resources, Inc.

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 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
58 o-Xylene	0.71796	0.66609	0.65683	0.72121	0.68452	0.65693		
	0.69599	0.64982					0.68117	4.144
59 Styrene	1.08243	1.04159	1.01347	1.13883	1.09758	1.05963		
	1.10439	1.03689					1.07185	3.865
60 Isopropyl Benzene	5.53103	5.04579	5.30125	4.99478	5.00141	5.11884		
	5.83021	5.40690					5.27878	5.647
61 Bromoform	0.30052	0.25691	0.27775	0.28723	0.29896	0.31795		
	0.35808	0.37569					0.30913	12.981
62 1,1,2,2-Tetrachloroethane	0.49953	0.44271	0.45676	0.45251	0.43253	0.42271		
	0.45809	0.46129					0.45327	5.083
64 1,2,3-Trichloropropane	0.13625	0.12960	0.13594	0.13862	0.13412	0.13486		
	0.14414	0.14215					0.13696	3.372
65 Trans-1,4-Dichloro 2-Butene	+++++	+++++	0.05581	0.06842	0.07652	0.08577		
	0.10163	0.10955					0.08295	24.430 <-
66 N-Propyl Benzene	6.47765	5.68656	6.04599	5.81966	5.79894	5.93600		
	6.50213	5.95388					6.02760	5.070
67 Bromobenzene	1.05571	0.91753	1.00936	0.94653	0.97318	0.99704		
	1.09847	1.08799					1.01073	6.488

Analytical Resources, Inc.

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 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
68 1,3,5-Trimethyl Benzene	4.18408 4.07188	3.85574 3.60092	3.95833	3.94406	3.79771	3.78501	3.89972	4.655
69 2-Chloro Toluene	4.12911 4.01754	3.63015 3.76287	3.81932	3.65649	3.62839	3.64434	3.78603	5.080
70 4-Chloro Toluene	3.54029 3.49407	3.09886 3.29724	3.22522	3.16425	3.18472	3.23095	3.27945	4.815
71 T-Butyl Benzene	3.80185 3.32415	3.35118 2.91501	3.40318	3.33723	3.14585	3.08846	3.29586	7.976
72 1,2,4-Trimethylbenzene	4.04045 3.72491	3.68335 3.34033	3.73212	3.80443	3.65270	3.54475	3.69038	5.455
73 S-Butyl Benzene	5.58768 4.75459	5.01659 4.18783	4.93987	5.03676	4.70106	4.53866	4.84538	8.479
74 4-Isopropyl Toluene	4.22304 3.56511	3.81842 3.20941	3.70679	3.92366	3.63073	3.47917	3.69454	8.247
75 1,3-Dichlorobenzene	1.90398 1.70062	1.66558 1.63574	1.63105	1.72653	1.67103	1.62851	1.69538	5.376
77 1,4-Dichlorobenzene	1.83575 1.60789	1.62032 1.56231	1.56452	1.63335	1.57871	1.53861	1.61768	5.797

Analytical Resources, Inc.

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 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
78 N-Butyl Benzene	3.74330 2.99616	3.14439 2.87263	3.08505	3.39219	3.09568	2.93051	3.15749	9.007
80 1,2-Dichlorobenzene	1.50238 1.22290	1.29266 1.23022	1.27644	1.29390	1.21491	1.16961	1.27538	7.941
81 1,2-Dibromo 3-Chloropropane	0.02822 0.04613	0.03176 0.04913	0.04235	0.04345	0.04096	0.04153	0.04044	17.403
82 1,2,4-Trichlorobenzene	0.82321 0.61654	0.54990 0.64376	0.59832	0.59003	0.58040	0.57146	0.62170	13.871
83 Hexachloro 1,3-Butadiene	++++ 0.33119	0.42524 0.33437	0.43388	0.39366	0.34732	0.32448	0.37002	12.606
84 Naphthalene	++++ 0.81143	0.88030 0.84173	0.93236	0.86953	0.80389	0.77464	0.84484	6.348
85 1,2,3-Trichlorobenzene	++++ 0.39244	0.43291 0.40472	0.48204	0.44178	0.41497	0.38143	0.42147	8.093
\$ 28 Dibromofluoromethane	0.40392 0.41915	0.40969 0.42672	0.40889	0.42420	0.41953	0.42431	0.41705	2.028
\$ 32 d4-1,2-Dichloroethane	0.35762 0.35840	0.36305 0.36633	0.36060	0.37922	0.38103	0.36781	0.36676	2.451

Analytical Resources, Inc.

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 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron
 Curve Type : Average

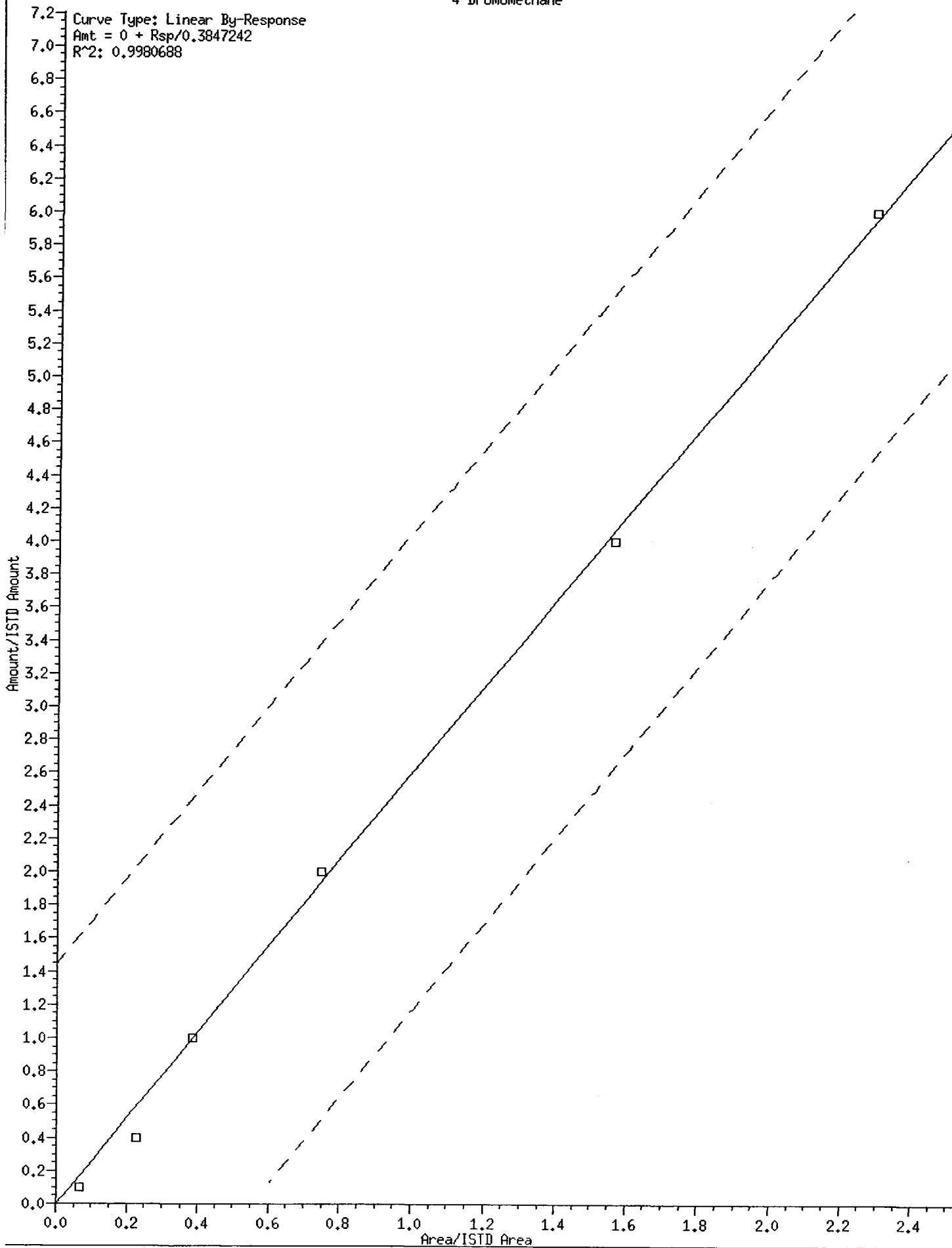
Compound	0.20000	0.50000	1.000	4.000	10.000	20.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	40.000	60.000						
	Level 7	Level 8						
=====								
\$ 43 d8-Toluene	1.20969	1.22660	1.22460	1.22702	1.20585	1.21601		
	1.22293	1.21528					1.21850	0.658

\$ 63 4-Bromofluorobenzene	0.41797	0.42295	0.40140	0.43515	0.41929	0.39981		
	0.38811	0.36083					0.40569	5.800

\$ 79 d4-1,2-Dichlorobenzene	0.79372	0.80687	0.78933	0.78782	0.76091	0.74694		
	0.75619	0.77965					0.77768	2.680

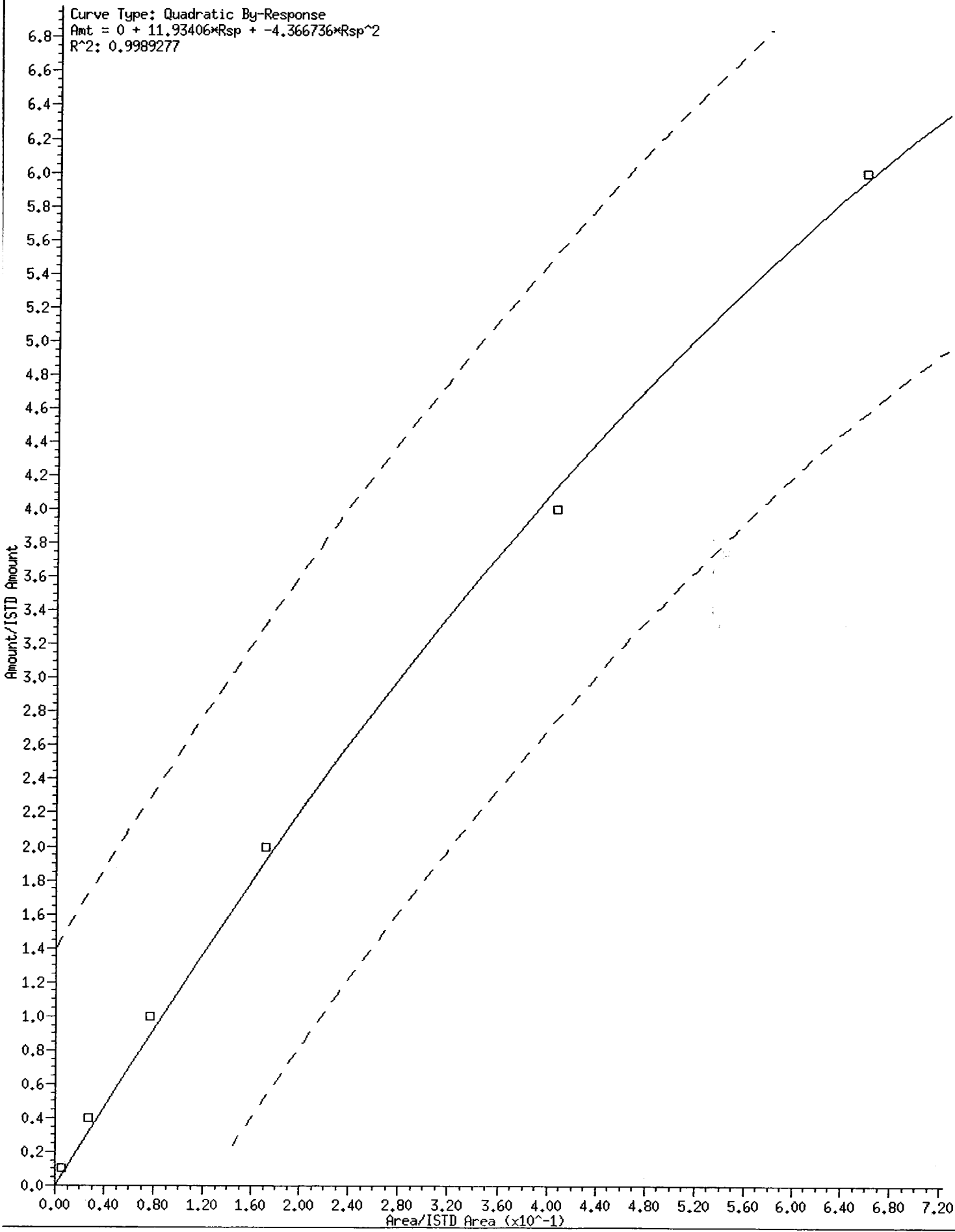
4 Bromomethane

Curve Type: Linear By-Response
Amt = 0 + Rsp/0.3847242
R²: 0.9980688



65 Trans-1,4-Dichloro 2-Butene

Curve Type: Quadratic By-Response
Amt = 0 + 11.93406*Rsp + -4.366736*Rsp^2
R^2: 0.9989277



Analytical Resources, Inc.

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 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Calibration File Names:

- Level 1: /chem1/nt10.i/22FEB10.b/0020222.d
- Level 2: /chem1/nt10.i/22FEB10.b/0050222.d
- Level 3: /chem1/nt10.i/22FEB10.b/0100222.d
- Level 4: /chem1/nt10.i/22FEB10.b/0400222.d
- Level 5: /chem1/nt10.i/22FEB10.b/1000222.d
- Level 6: /chem1/nt10.i/22FEB10.b/2000222.d
- Level 7: /chem1/nt10.i/22FEB10.b/4000222a.d
- Level 8: /chem1/nt10.i/22FEB10.b/6000222.d

Compound	0.2000		0.5000		1		4		10		20		Coefficients		RSD or R ²	
	Level 1	Level 2	Level 7	Level 8	Level 3	Level 4	Level 5	Level 6	Level 6	Level 5	Level 4	Level 3	b	m1		m2
1 Dichlorodifluoromethane	0.25294	0.28658	0.21875	0.26125	0.27561	0.26586	AVRG							0.25081		10.56218
2 Chloromethane	++++	0.48652	0.40683	0.35031	0.34244	0.33717	AVRG							0.37517		14.75259
3 Vinyl Chloride	0.46764	0.48122	0.41548	0.47031	0.43078	0.43418	AVRG							0.44606		5.34974

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Analytical Resources, Inc.
INITIAL CALIBRATION DATA

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 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12		b	m	
4 Bromomethane	++++ 691556	++++ 1060997	28908	92429	175949	336901							LINR	0.000e+00	0.38472	0.99807
5 Chloroethane	0.33438 0.37694	0.37875 0.33478	0.32507	0.39547	0.32526	0.33163							AVRG	0.35028		8.12215
6 Trichlorofluoromethane	0.60714 0.66063	0.65610 0.62382	0.58750	0.66229	0.61508	0.60334							AVRG	0.62699		4.62644
7 Allyl Chloride	++++ ++++	++++ ++++	++++	++++	++++	++++							AVRG	0.000e+00		0.000e+00
8 Acrolein	++++ 0.02942	0.03037 0.03028	0.02730	0.03060	0.02630	0.02723							AVRG	0.02879		6.22216
9 1,1,2-Trichloro-1,2,2-trifluoroethane	0.42345 0.43968	0.44968 0.39874	0.38082	0.45142	0.40616	0.39716							AVRG	0.41839		6.35384
10 Acetone	++++ 0.04422	0.05557 0.04428	0.04813	0.04820	0.04113	0.04101							AVRG	0.04608		11.05163

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
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 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	Coefficients		RSD or R^2	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 1	Level 2	Level 3	Level 4		Level 5	Level 6		m1
11 1,1-Dichloroethene	0.50470	0.53018	0.45277	0.52587	0.47806	0.45623							AVRG		0.49765		7.18689
	0.54994	0.48342															
12 Bromoethane	0.32022	0.32577	0.29003	0.31212	0.29214	0.28849							AVRG		0.30371		4.69456
	0.30357	0.29734															
13 Iodomethane	++++	0.85816	0.73944	0.72087	0.58843	0.59329							AVRG		0.67258		15.78894
	0.64658	0.56133															
14 Methylene Chloride	0.40681	0.42677	0.39028	0.44063	0.40359	0.38733							AVRG		0.41454		5.20094
	0.44475	0.41618															
15 Acrylonitrile	++++	0.05293	0.05402	0.06293	0.05723	0.05748							AVRG		0.05868		7.50625
	0.06231	0.06386															
16 Methyl tert butyl ether	0.76616	0.76991	0.71867	0.75818	0.72710	0.71123							AVRG		0.73174		4.15091
	0.71937	0.68325															
17 Carbon Disulfide	1.61297	1.72593	1.39225	1.71067	1.59361	1.54525							AVRG		1.62950		7.63360
	1.79174	1.66368															

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
 End Cal Date : 22-FEB-2010 18:41
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	b	Coefficients		m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12			m1	m2		
18 Trans-1,2-Dichloroethene	0.52788	0.52743	0.49081	0.54509	0.50976	0.50441							AVRG		0.52291			4.00532
	0.55433	0.52357																
19 Methyl Methacrylate	++++	++++	++++	++++	++++	++++							AVRG		0.000e+00			0.000e+00
	++++	++++																
20 Vinyl Acetate	0.46744	0.42668	0.45467	0.47702	0.46799	0.46881							AVRG		0.46273			3.65801
	0.45832	0.48090																
21 1,1-Dichloroethane	0.84077	0.83559	0.78661	0.88899	0.85637	0.83746							AVRG		0.85192			4.07134
	0.88600	0.88355																
22 2-Butanone	0.02818	0.02902	0.02737	0.03056	0.02976	0.02964							AVRG		0.02964			4.97764
	0.03047	0.03209																
23 2,2-Dichloropropane	0.36371	0.34108	0.32504	0.35243	0.33254	0.34486							AVRG		0.33898			4.36954
	0.31784	0.33431																
24 Cis-1,2-Dichloroethene	0.72098	0.57717	0.54986	0.56964	0.55382	0.54224							AVRG		0.58340			9.88119
	0.58940	0.56405																

21 04 00275

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
 End Cal Date : 22-FEB-2010 18:41
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12		b	m1	
26 Chloroform	0.88149	0.88897	0.88386	0.94940	0.91106	0.88543							AVRG	0.90761		3.13396
27 Bromochloromethane	0.18428	0.19916	0.18727	0.20881	0.19682	0.19646							AVRG	0.19816		4.58424
29 1,1,1-Trichloroethane	0.70596	0.72182	0.67222	0.74956	0.70153	0.68961							AVRG	0.70597		3.32967
30 1,1-Dichloropropene	0.49940	0.48921	0.48303	0.49886	0.49475	0.49155							AVRG	0.49647		1.77950
31 Carbon Tetrachloride	0.35686	0.35518	0.35188	0.37773	0.35612	0.35940							AVRG	0.36321		2.87049
33 1,2-Dichloroethane	0.30982	0.29537	0.30188	0.31297	0.29975	0.29240							AVRG	0.30151		2.27630
34 Benzene	1.45273	1.35928	1.37257	1.43199	1.40249	1.36822							AVRG	1.40257		2.47407

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
 End Cal Date : 22-FEB-2010 18:41
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12		b	m1	
36 Trichloroethene	0.34602	0.34284	0.35210	0.37728	0.40527	0.38766							AVRG	0.37582		6.74964
37 1,2-Dichloropropane	0.39802	0.39734											AVRG	0.30363		2.59407
38 Bromodichloromethane	0.30010	0.29648	0.29192	0.31168	0.30427	0.30000							AVRG	0.38400		4.40877
39 Dibromomethane	0.37206	0.36144	0.36157	0.39633	0.38972	0.38817							AVRG	0.12134		5.64328
40 2-Chloroethyl Vinyl Ether	0.12464	0.11427	0.11559	0.13082	0.12347	0.12129							AVRG	0.07208		4.88956
41 4-Methyl-2-Pentanone	0.07375	0.06453	0.07092	0.07349	0.07363	0.07352							AVRG	0.05356		8.92789
42 Cis 1,3-dichloropropene	0.05051	0.04981	0.04741	0.05627	0.05173	0.05273							AVRG	0.42736		8.61183
	0.05850	0.06151											AVRG			
	0.37985	0.38559	0.39139	0.43595	0.44119	0.44827							AVRG			
	0.46044	0.47624											AVRG			

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Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
End Cal Date : 22-FEB-2010 18:41
Quant Method : ISTD
Target Version : 3.50
Integrator : Falcon
Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2					
44 Toluene	0.95725	0.93687	0.91346	0.97699	0.94807	0.93797	AVRG		0.95666						2.95179
45 Trans 1,3-Dichloropropene	0.26621	0.26696	0.27010	0.31354	0.32922	0.33842	AVRG								
46 2-Hexanone	0.35688	0.37261					AVRG		0.31424						13.46100
47 1,1,2-Trichloroethane	0.09349	0.08261	0.08004	0.09201	0.08646	0.08473	AVRG								5.32697
48 1,3-Dichloropropane	0.18416	0.17994	0.17663	0.19428	0.18815	0.18312	AVRG		0.18629						3.44132
49 Tetrachloroethene	0.36619	0.34895	0.34959	0.37196	0.36526	0.35607	AVRG								2.34220
50 Chlorodibromomethane	0.35435	0.35478					AVRG		0.35839						3.66980
	0.47111	0.42754	0.42105	0.43187	0.43056	0.42250	AVRG		0.43471						
	0.44085	0.43222					AVRG								
	0.23746	0.22691	0.22455	0.24624	0.24502	0.24296	AVRG								
	0.24910	0.24985					AVRG		0.24026						4.06754

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Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
 End Cal Date : 22-FEB-2010 18:41
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Coefficients		RSD or R ²			
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2
51 1,2-Dibromoethane	0.14946	0.15269	0.15151	0.17639	0.17062	0.16869										0.16545		
	0.17474	0.17954																
53 Chlorobenzene	1.10107	1.02642	1.00938	1.07281	1.04858	1.02581										1.05101		
	1.07751	1.04651																
54 Ethyl Benzene	2.12039	2.00487	1.96691	2.09139	2.02694	1.89356										1.99424		
	1.99637	1.85349																
55 1,1,1,2-Tetrachloroethane	0.32244	0.32317	0.31303	0.33710	0.32168	0.30927										0.32157		
	0.33020	0.31567																
56 m,p-xylene	0.76902	0.73944	0.72384	0.77930	0.75259	0.73649										0.75156		
	0.78253	0.72928																
57 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++												
	+++++	+++++														0.000e+00		
58 o-Xylene	0.71796	0.66609	0.65683	0.72121	0.68452	0.65693												
	0.69599	0.64982														0.68117		

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
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 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2					
59 Styrene	1.08243	1.04159	1.01347	1.13883	1.09758	1.05963	AVRG								3.86530
	1.10439	1.03689													
60 Isopropyl Benzene	5.53103	5.04579	5.30125	4.99478	5.00141	5.11884	AVRG								5.64730
	5.83021	5.40690													
61 Bromoform	0.30052	0.25691	0.27775	0.28723	0.29896	0.31795	AVRG								12.98144
	0.35808	0.37569													
62 1,1,2,2-Tetrachloroethane	0.49953	0.44271	0.45676	0.45251	0.43253	0.42271	AVRG								5.08293
	0.45809	0.46129													
64 1,2,3-Trichloropropane	0.13625	0.12960	0.13594	0.13862	0.13412	0.13486	AVRG								3.37238
	0.14414	0.14215													
65 Trans-1,4-Dichloro 2-Butene	++++	++++	1161	6578	19128	39300	QUAD	0.000e+00	11.93406	-4.36674					0.99893
	86818	141538													
66 N-Propyl Benzene	6.47765	5.68656	6.04599	5.81966	5.79894	5.93600	AVRG								5.06996
	6.50213	5.95388													

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Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12		m1	m2	
67 Bromobenzene	1.05571	0.91753	1.00936	0.94653	0.97318	0.99704							AVRG	1.01073		6.48766
68 1,3,5-Trimethyl Benzene	4.18408	3.85574	3.95833	3.94406	3.79771	3.78501							AVRG	3.89972		4.65503
69 2-Chloro Toluene	4.12911	3.63015	3.81932	3.65649	3.62839	3.64434							AVRG	3.78603		5.08017
70 4-Chloro Toluene	3.54029	3.09886	3.22522	3.16425	3.18472	3.23095							AVRG	3.27945		4.81533
71 T-Butyl Benzene	3.80185	3.35118	3.40318	3.33723	3.14585	3.08846							AVRG	3.29586		7.97551
72 1,2,4-Trimethylbenzene	4.04045	3.68335	3.73212	3.80443	3.65270	3.54475							AVRG	3.69038		5.45522
73 S-Butyl Benzene	5.58768	5.01659	4.93987	5.03676	4.70106	4.53866							AVRG	4.84538		8.47854

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
 End Cal Date : 22-FEB-2010 18:41
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 1	Level 2	Level 3	Level 4		b	m1	
74 4-Isopropyl Toluene	4.22304	3.81842	3.70679	3.92366	3.63073	3.47917							AVRG	3.69454		8.24706
	3.56511	3.20941														
75 1,3-Dichlorobenzene	1.90398	1.66558	1.63105	1.72653	1.67103	1.62851							AVRG	1.69538		5.37639
	1.70062	1.63574														
77 1,4-Dichlorobenzene	1.83575	1.62032	1.56452	1.63335	1.57871	1.53861							AVRG	1.61768		5.79720
	1.60789	1.56231														
78 N-Butyl Benzene	3.74330	3.14439	3.08505	3.39219	3.09568	2.93051							AVRG	3.15749		9.00723
	2.99616	2.87263														
80 1,2-Dichlorobenzene	1.50238	1.29266	1.27644	1.29390	1.21491	1.16961							AVRG	1.27538		7.94138
	1.22290	1.23022														
81 1,2-Dibromo 3-Chloropropane	0.02822	0.03176	0.04235	0.04345	0.04096	0.04153							AVRG	0.04044		17.40280
	0.04613	0.04913														
82 1,2,4-Trichlorobenzene	0.82321	0.54990	0.59832	0.59003	0.58040	0.57146							AVRG	0.62170		13.87065
	0.61654	0.64376														

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Analytical Resources, Inc.

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 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Coefficients		%RSD or R ²	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		Level 7
40 Level 7		60 Level 8														
83 Hexachloro 1,3-Butadiene	++++ 0.33119	0.42524 0.33437	0.43388	0.39366	0.34732	0.32448								0.37002		12.60567
84 Naphthalene	++++ 0.81143	0.88030 0.84173	0.93236	0.86953	0.80389	0.77464								0.84484		6.34784
85 1,2,3-Trichlorobenzene	++++ 0.39244	0.43291 0.40472	0.48204	0.44178	0.41497	0.38143								0.42147		8.09312
\$ 28 Dibromofluoromethane	0.40392 0.41915	0.40969 0.42672	0.40889	0.42420	0.41953	0.42431								0.41705		2.02845
\$ 32 d4-1,2-Dichloroethane	0.35762 0.35840	0.36305 0.36633	0.36060	0.37922	0.38103	0.36781								0.36676		2.45077
\$ 43 d8-Toluene	1.20969 1.22293	1.22660 1.21528	1.22460	1.22702	1.20585	1.21601								1.21850		0.65752
\$ 63 4-Bromofluorobenzene	0.41797 0.38811	0.42295 0.36083	0.40140	0.43515	0.41929	0.39981								0.40569		5.80017

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 14:42
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 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Compound	0.2000		0.5000		1		4		10		20		Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12			m1	m2	
79 d4-1,2-Dichlorobenzene	0.79372	0.80687	0.78933	0.78782	0.76091	0.74694							AVRG		0.77768		2.67950
	0.75619	0.77965															

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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 Method file : /chem1/nt10.i/22FEB10.b/82600122L.m
 Cal Date : 23-Feb-2010 14:59 aron

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response
Quad	Ant = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 22-FEB-2010 17:11
 Lab File ID: 1000222.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 14:42 18:41
 Lab Sample ID: IC100 Quant Type: ISTD
 Method: /chem1/nt10.i/22FEB10.b/82600122L.m

COMPOUND	RF10		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	
1 Dichlorodifluoromethane	0.25081	0.27561	0.27561	0.010	9.88956	20.00000	Averaged
2 Chloromethane	0.37517	0.34244	0.34244	0.100	-8.72321	20.00000	Averaged
3 Vinyl Chloride	0.44606	0.43078	0.43078	0.100	-3.42590	20.00000	Averaged
4 Bromomethane	10.02433	10.00000	0.38566	0.100	0.24330	20.00000	Linear
5 Chloroethane	0.35028	0.32526	0.32526	0.010	-7.14452	20.00000	Averaged
6 Trichlorofluoromethane	0.62699	0.61508	0.61508	0.010	-1.89984	20.00000	Averaged
8 Acrolein	0.02879	0.02630	0.02630	0.000	-8.62839	20.00000	Averaged
9 112Trichloro122Trifluoroeth	0.41839	0.40616	0.40616	0.010	-2.92261	20.00000	Averaged
10 Acetone	0.04608	0.04113	0.04113	0.001	-10.73021	20.00000	Averaged
11 1,1-Dichloroethene	0.49765	0.47806	0.47806	0.100	-3.93615	20.00000	Averaged
12 Bromoethane	0.30371	0.29214	0.29214	0.100	-3.80830	20.00000	Averaged
13 Iodomethane	0.67258	0.58843	0.58843	0.010	-12.51189	20.00000	Averaged
14 Methylene Chloride	0.41454	0.40359	0.40359	0.010	-2.64144	20.00000	Averaged
15 Acrylonitrile	0.05868	0.05723	0.05723	0.001	-2.46525	20.00000	Averaged
16 Methyl tert butyl ether	0.73174	0.72710	0.72710	0.100	-0.63306	20.00000	Averaged
17 Carbon Disulfide	1.62950	1.59361	1.59361	0.010	-2.20256	20.00000	Averaged
18 Trans-1,2-Dichloroethene	0.52291	0.50976	0.50976	0.010	-2.51449	20.00000	Averaged
20 Vinyl Acetate	0.46273	0.46799	0.46799	0.010	1.13711	20.00000	Averaged
21 1,1-Dichloroethane	0.85192	0.85637	0.85637	0.200	0.52270	20.00000	Averaged
22 2-Butanone	0.02964	0.02976	0.02976	0.001	0.43434	20.00000	Averaged
23 2,2-Dichloropropane	0.33898	0.33254	0.33254	0.010	-1.89774	20.00000	Averaged
24 Cis-1,2-Dichloroethene	0.58340	0.55382	0.55382	0.010	-5.06924	20.00000	Averaged
26 Chloroform	0.90761	0.91106	0.91106	0.200	0.38010	20.00000	Averaged
27 Bromochloromethane	0.19816	0.19682	0.19682	0.050	-0.67889	20.00000	Averaged
\$ 28 Dibromofluoromethane	0.41705	0.41953	0.41953	0.100	0.59409	20.00000	Averaged
29 1,1,1-Trichloroethane	0.70597	0.70153	0.70153	0.100	-0.62867	20.00000	Averaged
30 1,1-Dichloropropene	0.49647	0.49475	0.49475	0.010	-0.34521	20.00000	Averaged
31 Carbon Tetrachloride	0.36321	0.35612	0.35612	0.100	-1.95297	20.00000	Averaged
\$ 32 d4-1,2-Dichloroethane	0.36676	0.38103	0.38103	0.010	3.89250	20.00000	Averaged
33 1,2-Dichloroethane	0.30151	0.29975	0.29975	0.100	-0.58331	20.00000	Averaged
34 Benzene	1.40257	1.40249	1.40249	0.500	-0.00610	20.00000	Averaged
36 Trichloroethene	0.37582	0.40527	0.40527	0.100	7.83743	20.00000	Averaged
37 1,2-Dichloropropane	0.30363	0.30427	0.30427	0.100	0.20913	20.00000	Averaged
38 Bromodichloromethane	0.38400	0.38972	0.38972	0.100	1.49016	20.00000	Averaged
39 Dibromomethane	0.12134	0.12347	0.12347	0.010	1.75867	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 22-FEB-2010 17:11
 Lab File ID: 1000222.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 14:42 18:41
 Lab Sample ID: IC100 Quant Type: ISTD
 Method: /chem1/nt10.i/22FEB10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL		MIN		MAX		CURVE TYPE
			RRF10	RRF	%D	%DRIFT	%D	%DRIFT	
40 2-Chloroethyl Vinyl Ether	0.07208	0.07363	0.07363	0.000	2.14623	20.00000	Averaged		
41 4-Methyl-2-Pentanone	0.05356	0.05173	0.05173	0.000	-3.41276	20.00000	Averaged		
42 Cis 1,3-dichloropropene	0.42736	0.44119	0.44119	0.200	3.23451	20.00000	Averaged		
43 d8-Toluene	1.21850	1.20585	1.20585	0.010	-1.03826	20.00000	Averaged		
44 Toluene	0.95666	0.94807	0.94807	0.400	-0.89808	20.00000	Averaged		
45 Trans 1,3-Dichloropropene	0.31424	0.32922	0.32922	0.010	4.76554	20.00000	Averaged		
46 2-Hexanone	0.08726	0.08646	0.08646	0.010	-0.91700	20.00000	Averaged		
47 1,1,2-Trichloroethane	0.18629	0.18815	0.18815	0.100	1.00025	20.00000	Averaged		
48 1,3-Dichloropropane	0.35839	0.36526	0.36526	0.100	1.91596	20.00000	Averaged		
49 Tetrachloroethene	0.43471	0.43056	0.43056	0.200	-0.95514	20.00000	Averaged		
50 Chlorodibromomethane	0.24026	0.24502	0.24502	0.100	1.98168	20.00000	Averaged		
51 1,2-Dibromoethane	0.16545	0.17062	0.17062	0.010	3.12034	20.00000	Averaged		
53 Chlorobenzene	1.05101	1.04858	1.04858	0.500	-0.23106	20.00000	Averaged		
54 Ethyl Benzene	1.99424	2.02694	2.02694	0.100	1.63983	20.00000	Averaged		
55 1,1,1,2-Tetrachloroethane	0.32157	0.32168	0.32168	0.010	0.03447	20.00000	Averaged		
56 m,p-xylene	0.75156	0.75259	0.75259	0.300	0.13740	20.00000	Averaged		
58 o-Xylene	0.68117	0.68452	0.68452	0.300	0.49202	20.00000	Averaged		
59 Styrene	1.07185	1.09758	1.09758	0.300	2.39998	20.00000	Averaged		
60 Isopropyl Benzene	5.27878	5.00141	5.00141	0.010	-5.25440	20.00000	Averaged		
61 Bromoform	0.30913	0.29896	0.29896	0.010	-3.29125	20.00000	Averaged		
62 1,1,2,2-Tetrachloroethane	0.45327	0.43253	0.43253	0.100	-4.57544	20.00000	Averaged		
63 4-Bromofluorobenzene	0.40569	0.41929	0.41929	0.200	3.35226	20.00000	Averaged		
64 1,2,3-Trichloropropane	0.13696	0.13412	0.13412	0.010	-2.07179	20.00000	Averaged		
65 Trans-1,4-Dichloro 2-Butene	8.87663	10.00000	0.07652	0.001	-11.23370	20.00000	Quadratic		
66 N-Propyl Benzene	6.02760	5.79894	5.79894	0.010	-3.79360	20.00000	Averaged		
67 Bromobenzene	1.01073	0.97318	0.97318	0.010	-3.71513	20.00000	Averaged		
68 1,3,5-Trimethyl Benzene	3.89972	3.79771	3.79771	0.010	-2.61574	20.00000	Averaged		
69 2-Chloro Toluene	3.78603	3.62839	3.62839	0.010	-4.16367	20.00000	Averaged		
70 4-Chloro Toluene	3.27945	3.18472	3.18472	0.010	-2.88854	20.00000	Averaged		
71 T-Butyl Benzene	3.29586	3.14585	3.14585	0.010	-4.55160	20.00000	Averaged		
72 1,2,4-Trimethylbenzene	3.69038	3.65270	3.65270	0.010	-1.02104	20.00000	Averaged		
73 S-Butyl Benzene	4.84538	4.70106	4.70106	0.010	-2.97857	20.00000	Averaged		
74 4-Isopropyl Toluene	3.69454	3.63073	3.63073	0.010	-1.72704	20.00000	Averaged		
75 1,3-Dichlorobenzene	1.69538	1.67103	1.67103	0.600	-1.43639	20.00000	Averaged		
77 1,4-Dichlorobenzene	1.61768	1.57871	1.57871	0.500	-2.40942	20.00000	Averaged		

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 22-FEB-2010 17:11
 Lab File ID: 1000222.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 14:42 18:41
 Lab Sample ID: IC100 Quant Type: ISTD
 Method: /chem1/nt10.i/22FEB10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL		MIN		MAX		CURVE TYPE
			RRF10	RRF	%D	%DRIFT	%D	%DRIFT	
78 N-Butyl Benzene	3.15749	3.09568	3.09568	0.010	-1.95749	20.00000		Averaged	
\$ 79 d4-1,2-Dichlorobenzene	0.77768	0.76091	0.76091	0.010	-2.15656	20.00000		Averaged	
80 1,2-Dichlorobenzene	1.27538	1.21491	1.21491	0.400	-4.74120	20.00000		Averaged	
81 1,2-Dibromo 3-Chloropropane	0.04044	0.04096	0.04096	0.010	1.28875	20.00000		Averaged	
82 1,2,4-Trichlorobenzene	0.62170	0.58040	0.58040	0.010	-6.64312	20.00000		Averaged	
83 Hexachloro 1,3-Butadiene	0.37002	0.34732	0.34732	0.010	-6.13478	20.00000		Averaged	
84 Naphthalene	0.84484	0.80389	0.80389	0.010	-4.84691	20.00000		Averaged	
85 1,2,3-Trichlorobenzene	0.42147	0.41497	0.41497	0.010	-1.54344	20.00000		Averaged	

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0020222.d
 Lab Smp Id: IC002 Client Smp ID: vstd1
 Inj Date : 22-FEB-2010 14:42
 Operator : ar Inst ID: nt10.i
 Smp Info : IC002,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.385	(0.262)	2553	0.20000	0.2017
2 Chloromethane	50	1.539	1.545	(0.292)	5526	0.20000	0.2919 (M)
3 Vinyl Chloride	62	1.602	1.613	(0.304)	4720	0.20000	0.2097
4 Bromomethane	94	1.886	1.892	(0.358)	12564	0.20000	0.6471 (M)
5 Chloroethane	64	2.011	2.000	(0.382)	3375	0.20000	0.1909 (M)
6 Trichlorofluoromethane	101	2.125	2.125	(0.404)	6128	0.20000	0.1937 (M)
8 Acrolein	56	2.985	2.996	(0.567)	1450	1.00000	0.9981 (M)
9 112Trichloro122Trifluoroethane	101	2.660	2.666	(0.505)	4274	0.20000	0.2024 (M)
10 Acetone	43	3.332	3.326	(0.633)	3683	1.00000	1.584
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	5094	0.20000	0.2028 (M)
12 Bromoethane	108	2.882	2.882	(0.547)	3232	0.20000	0.2109
13 Iodomethane	142	2.746	2.740	(0.521)	12306	0.20000	0.3626 (M)
14 Methylene Chloride	84	3.246	3.252	(0.616)	4106	0.20000	0.1963 (M)
15 Acrylonitrile	53	4.094	4.089	(0.777)	485	0.20000	0.1638 (TQM)
16 Methyl tert butyl ether	73	3.548	3.554	(0.674)	7733	0.20000	0.2094 (M)

Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
17 Carbon Disulfide	76	2.615	2.615 (0.496)	16280	0.20000	0.1980 (M)
18 Trans-1,2-Dichloroethene	96	3.411	3.411 (0.648)	5328	0.20000	0.2019 (M)
20 Vinyl Acetate	43	4.282	4.282 (0.813)	4718	0.20000	0.2020
21 1,1-Dichloroethane	63	4.020	4.020 (0.763)	8486	0.20000	0.1974
22 2-Butanone	72	4.994	4.994 (0.948)	1422	1.00000	0.9508 (Q)
23 2,2-Dichloropropane	77	4.589	4.584 (0.871)	3671	0.20000	0.2146 (M)
24 Cis-1,2-Dichloroethene	96	4.493	4.498 (0.853)	7277	0.20000	0.2472
* 25 Pentafluorobenzene	168	5.267	5.272 (1.000)	504659	10.0000	
26 Chloroform	83	4.737	4.737 (0.900)	8897	0.20000	0.1942
27 Bromochloromethane	128	4.663	4.663 (0.885)	1860	0.20000	0.1860
§ 28 Dibromofluoromethane	111	4.880	4.880 (0.927)	203844	10.0000	9.685
29 1,1,1-Trichloroethane	97	4.885	4.885 (0.928)	6982	0.20000	0.1960 (Q)
30 1,1-Dichloropropene	75	4.982	4.982 (0.881)	8016	0.20000	0.2012
31 Carbon Tetrachloride	117	4.823	4.823 (0.853)	5728	0.20000	0.1965 (M)
§ 32 d4-1,2-Dichloroethane	65	5.289	5.289 (1.004)	180475	10.0000	9.751
33 1,2-Dichloroethane	62	5.341	5.341 (0.945)	4973	0.20000	0.2055 (M)
34 Benzene	78	5.176	5.181 (0.915)	23318	0.20000	0.2072 (M)
* 35 1,4-Difluorobenzene	114	5.654	5.659 (1.000)	802559	10.0000	
36 Trichloroethene	95	5.614	5.620 (0.993)	5554	0.20000	0.1841
37 1,2-Dichloropropane	63	6.001	6.007 (1.061)	4817	0.20000	0.1977
38 Bromodichloromethane	83	6.052	6.052 (1.070)	5972	0.20000	0.1938
39 Dibromomethane	93	5.927	5.927 (1.048)	1798	0.20000	0.1846
40 2-Chloroethyl Vinyl Ether	63	6.633	6.468 (1.173)	858	0.20000	0.1483 (TQ)
41 4-Methyl-2-Pentanone	58	6.946	6.946 (1.228)	4054	1.00000	0.9431
42 Cis 1,3-dichloropropene	75	6.502	6.502 (1.150)	6097	0.20000	0.1778
§ 43 d8-Toluene	98	6.627	6.633 (1.172)	970850	10.0000	9.928
44 Toluene	92	6.667	6.667 (1.179)	15365	0.20000	0.2001
45 Trans 1,3-Dichloropropene	75	6.963	6.963 (1.232)	4273	0.20000	0.1694
46 2-Hexanone	43	7.526	7.526 (0.976)	6518	1.00000	1.071
47 1,1,2-Trichloroethane	97	7.071	7.076 (1.251)	2956	0.20000	0.1977
48 1,3-Dichloropropane	76	7.264	7.264 (0.942)	5106	0.20000	0.2043
49 Tetrachloroethene	166	6.928	6.928 (0.898)	6569	0.20000	0.2167
50 Chlorodibromomethane	129	7.196	7.196 (0.933)	3311	0.20000	0.1977
51 1,2-Dibromoethane	107	7.361	7.361 (1.302)	2399	0.20000	0.1807
52 d5-Chlorobenzene	117	7.714	7.720 (1.000)	697183	10.0000	
53 Chlorobenzene	112	7.725	7.731 (1.001)	15353	0.20000	0.2095 (Q)
54 Ethyl Benzene	91	7.748	7.748 (1.004)	29566	0.20000	0.2127
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776 (1.008)	4496	0.20000	0.2005
56 m,p-xylene	106	7.850	7.850 (1.018)	21446	0.40000	0.4093
58 o-Xylene	106	8.158	8.158 (1.058)	10011	0.20000	0.2108
59 Styrene	104	8.198	8.198 (1.063)	15093	0.20000	0.2020 (M)
60 Isopropyl Benzene	105	8.380	8.380 (0.891)	26264	0.20000	0.2096
61 Bromoform	173	8.215	8.215 (0.874)	1427	0.20000	0.1944
62 1,1,2,2-Tetrachloroethane	83	8.733	8.733 (0.929)	2372	0.20000	0.2204 (M)
63 4-Bromofluorobenzene	95	8.585	8.585 (1.113)	291400	10.0000	10.303
64 1,2,3-Trichloropropane	110	8.835	8.835 (0.939)	647	0.20000	0.1990 (Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863 (0.942)	201	0.20000	0.1010 (QM)

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	
66 N-Propyl Benzene	91	8.676	8.681	(0.923)	30759	0.20000	0.2149
67 Bromobenzene	156	8.659	8.664	(0.921)	5013	0.20000	0.2089
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	19868	0.20000	0.2146
69 2-Chloro Toluene	91	8.789	8.795	(0.935)	19607	0.20000	0.2181
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	16811	0.20000	0.2159
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	18053	0.20000	0.2307
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	19186	0.20000	0.2190
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	26533	0.20000	0.2306
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	20053	0.20000	0.2286
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.995)	9041	0.20000	0.2246
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	237424	10.0000	
77 1,4-Dichlorobenzene	146	9.415	9.421	(1.001)	8717	0.20000	0.2270(Q)
78 N-Butyl Benzene	91	9.615	9.620	(1.022)	17775	0.20000	0.2371
‡ 79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.035)	188448	10.0000	10.206
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	7134	0.20000	0.2356(Q)
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.101)	134	0.20000	0.1396
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	3909	0.20000	0.2648
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	3480	0.20000	0.3961
84 Naphthalene	128	11.140	11.140	(1.185)	9628	0.20000	0.4800
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	3495	0.20000	0.3493

QC Flag Legend

- Γ - Target compound detected outside RT window.
- ‡ - Qualifier signal failed the ratio test.
- ¶ - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 0020222.d
 Lab Smp Id: IC002
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 22-FEB-2010
 Calibration Time: 17:11
 Client Smp ID: vstd1
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	504659	10.62
35 1,4-Difluorobenze	740651	370326	1481302	802559	8.36
52 d5-Chlorobenzene	686240	343120	1372480	697183	1.59
76 d4-1,4-Dichlorobe	249963	124982	499926	237424	-5.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.11
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.10
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.07
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.40	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/0020222.d

Date: 22-FEB-2010 14:42

Client ID: vstd1

Sample Info: IC002,10,10,0

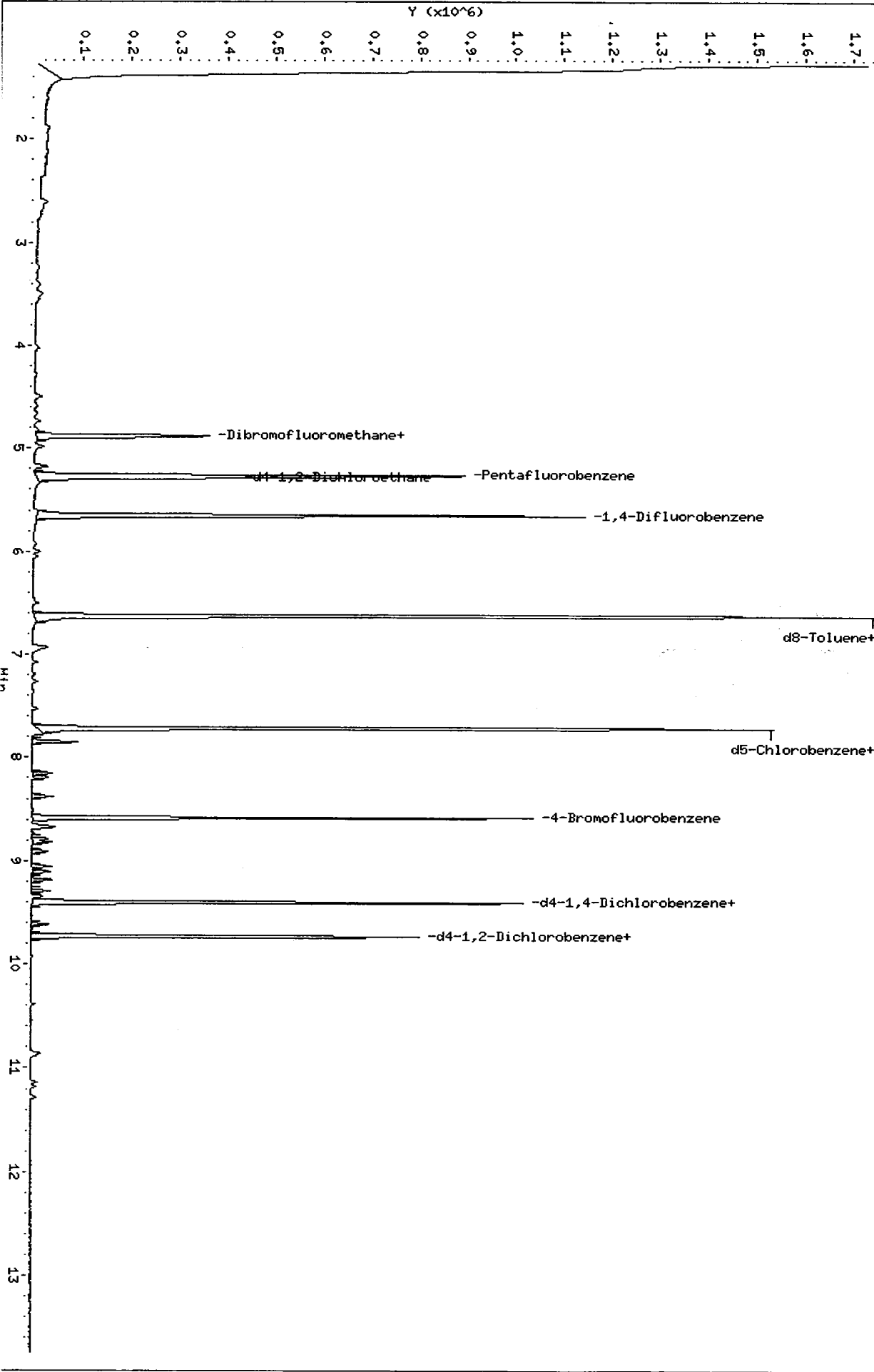
Column phase: RTX02.2

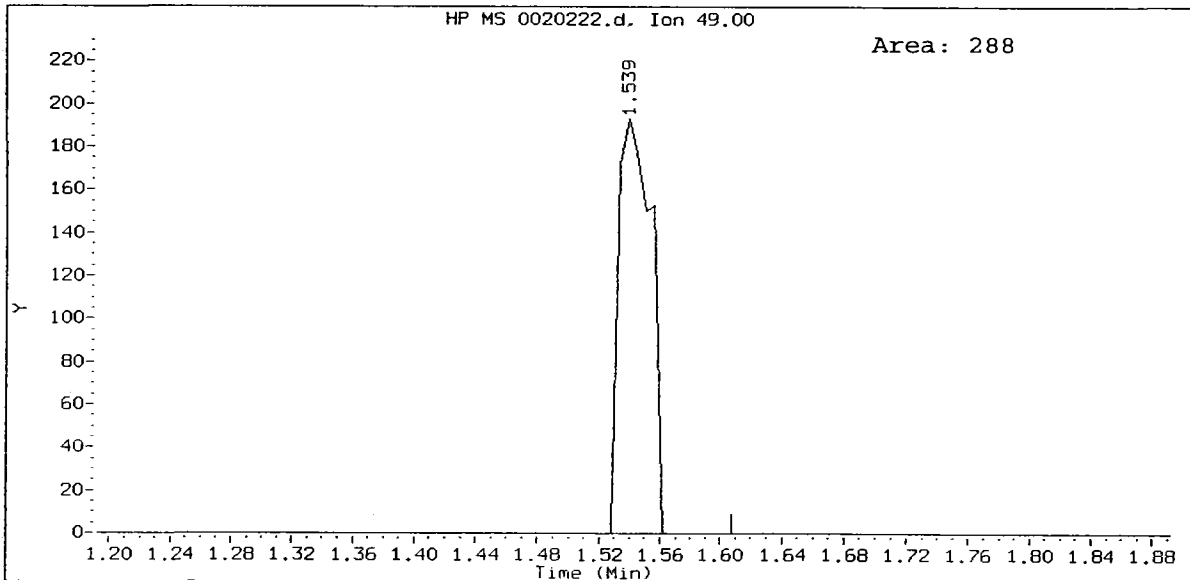
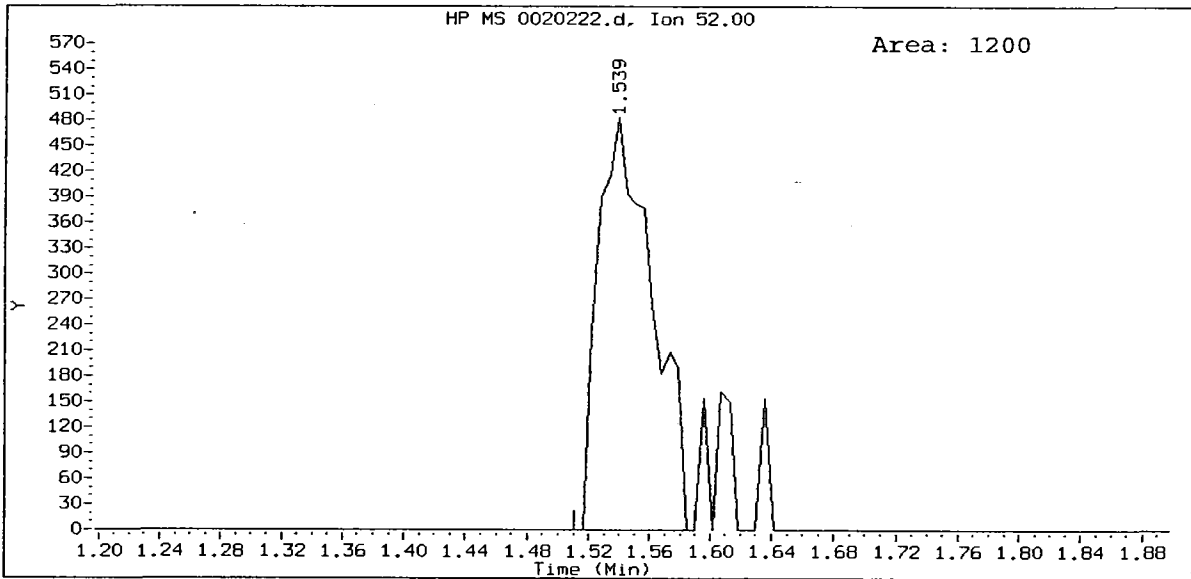
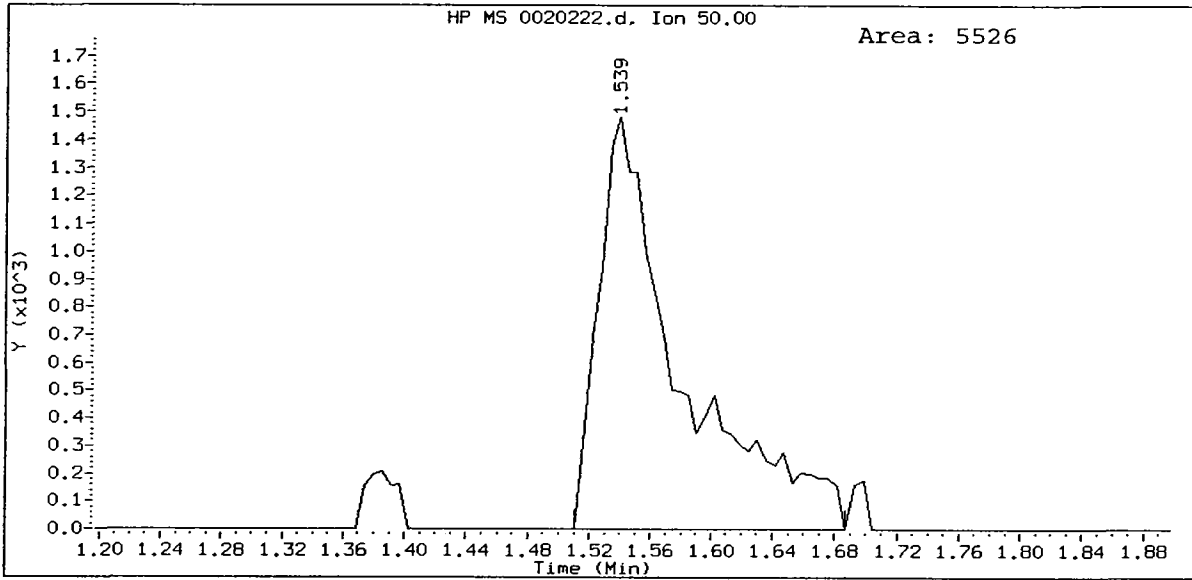
Instrument: nt10.i

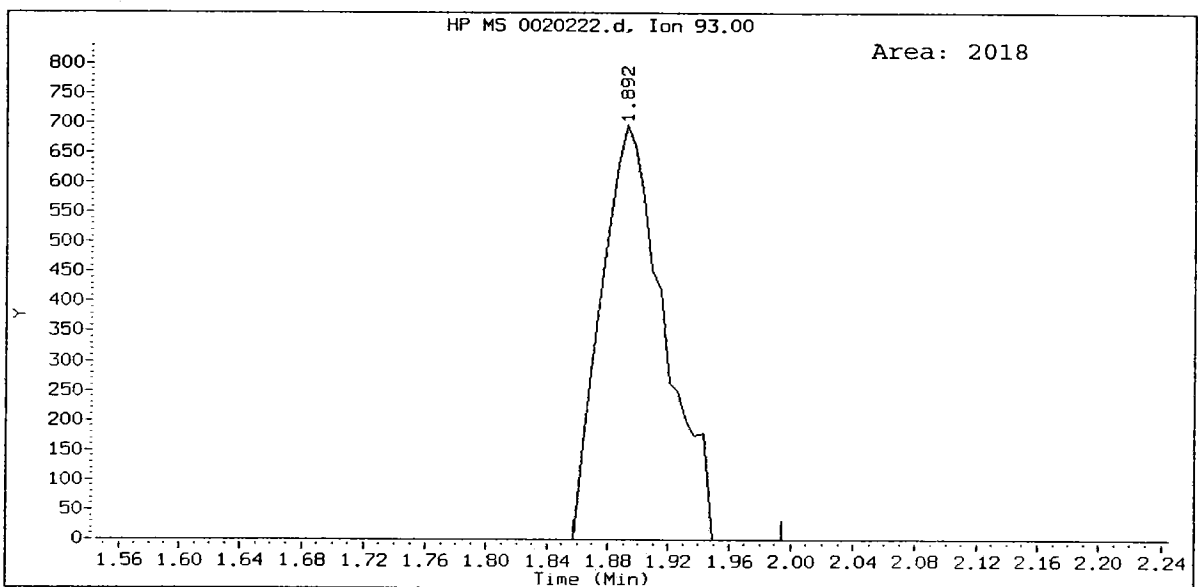
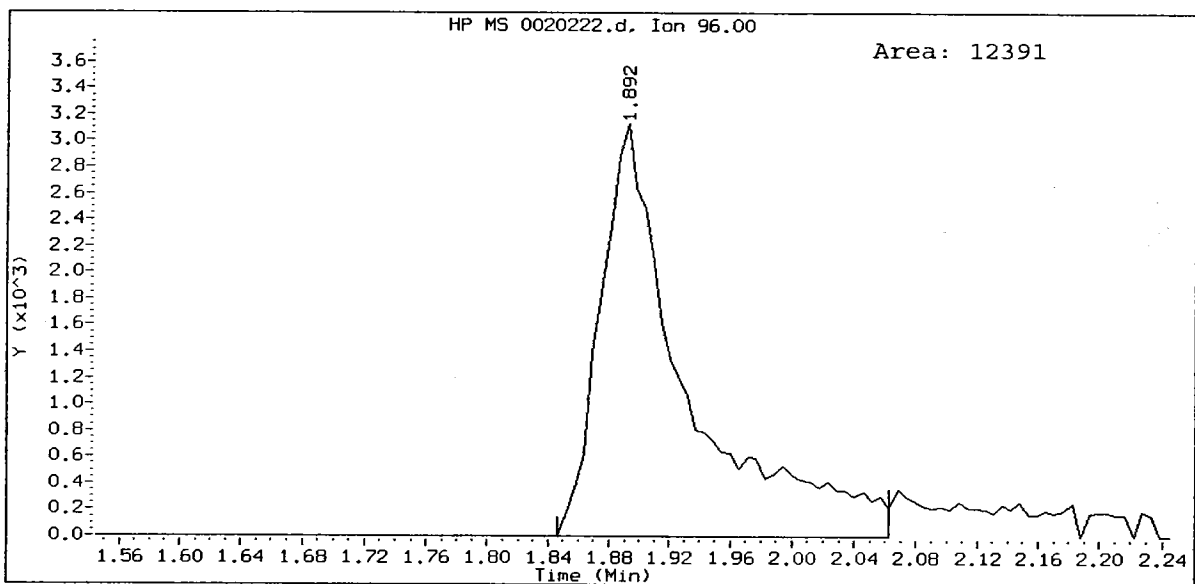
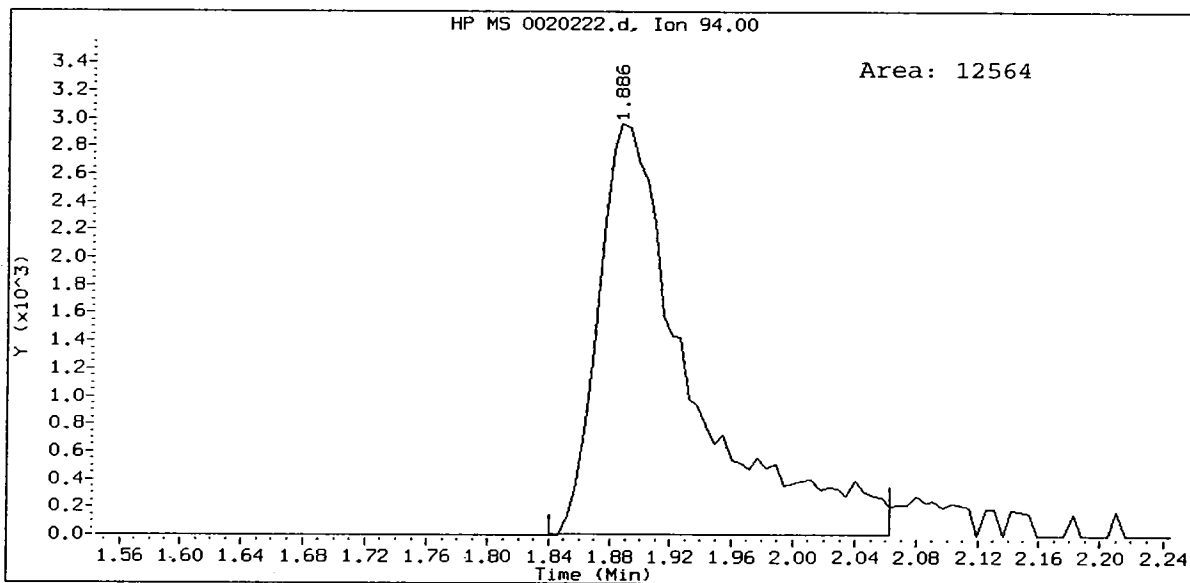
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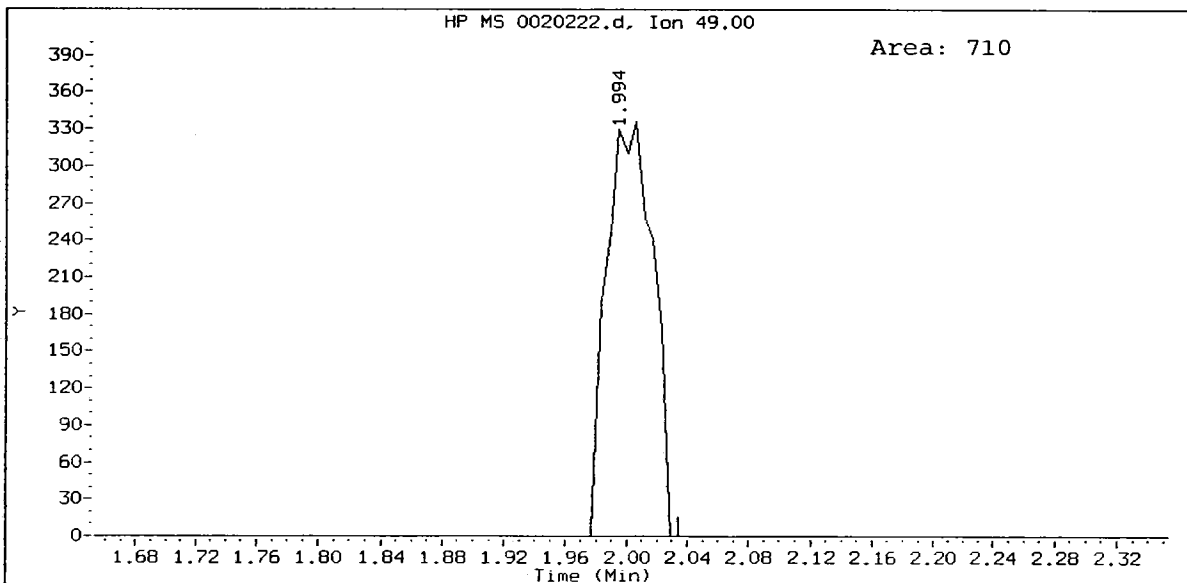
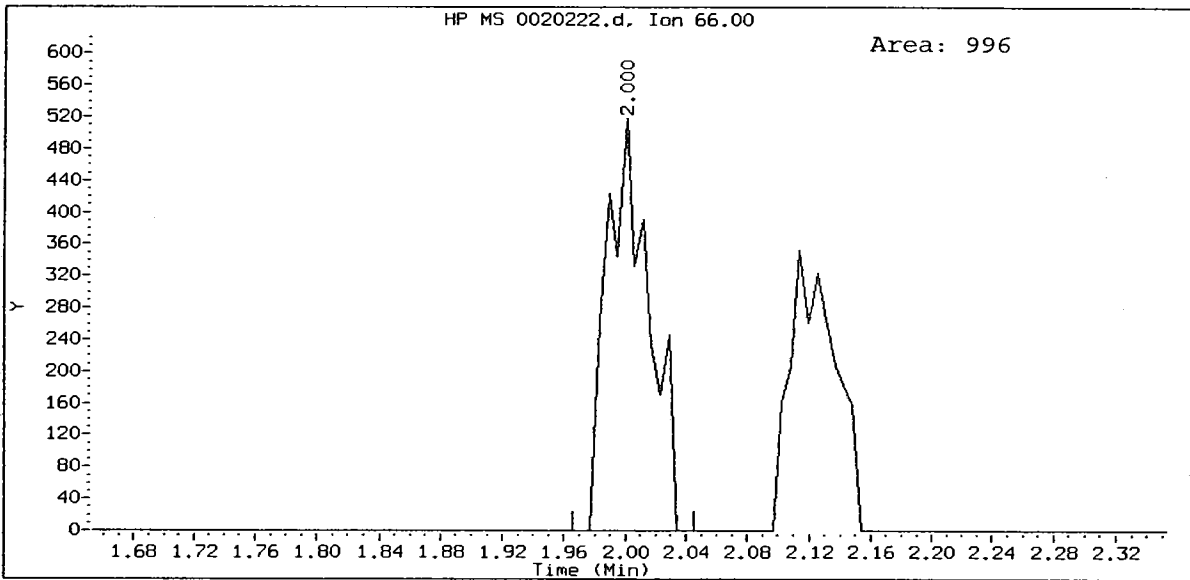
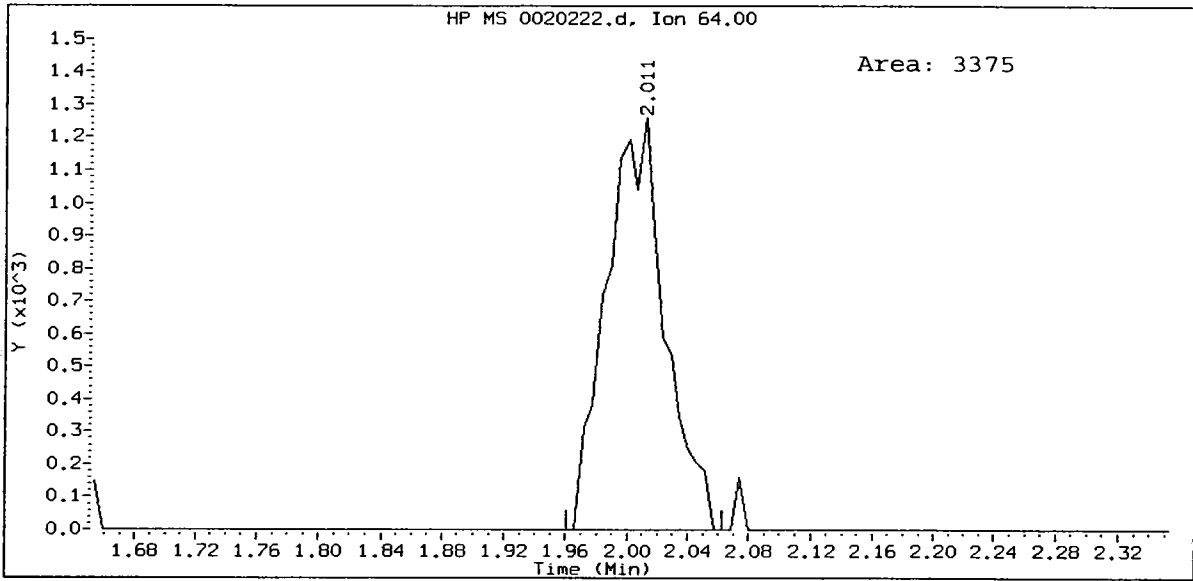
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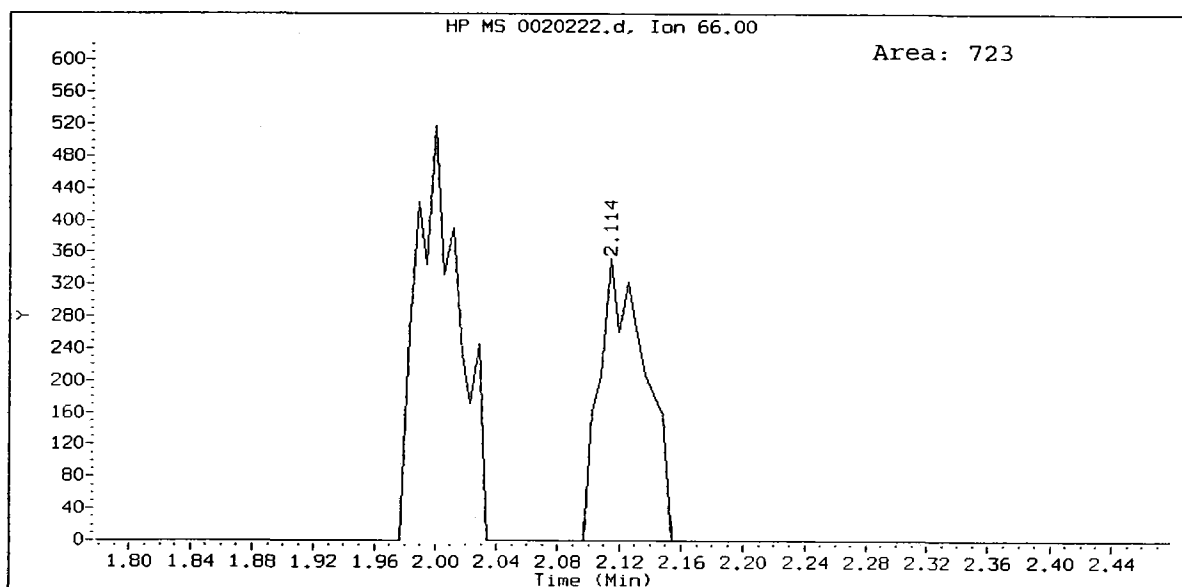
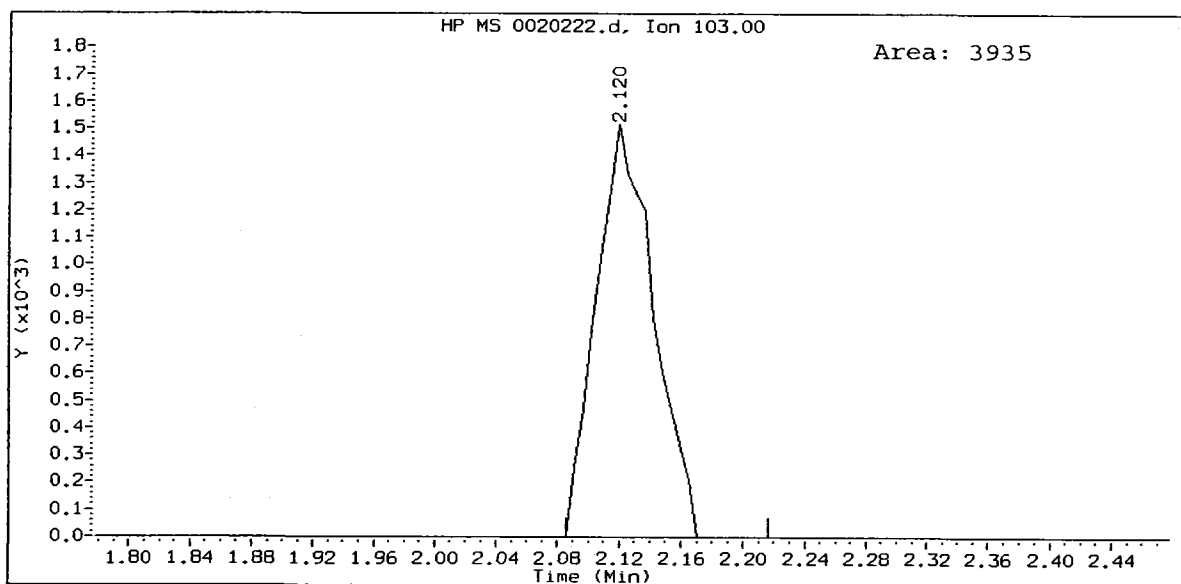
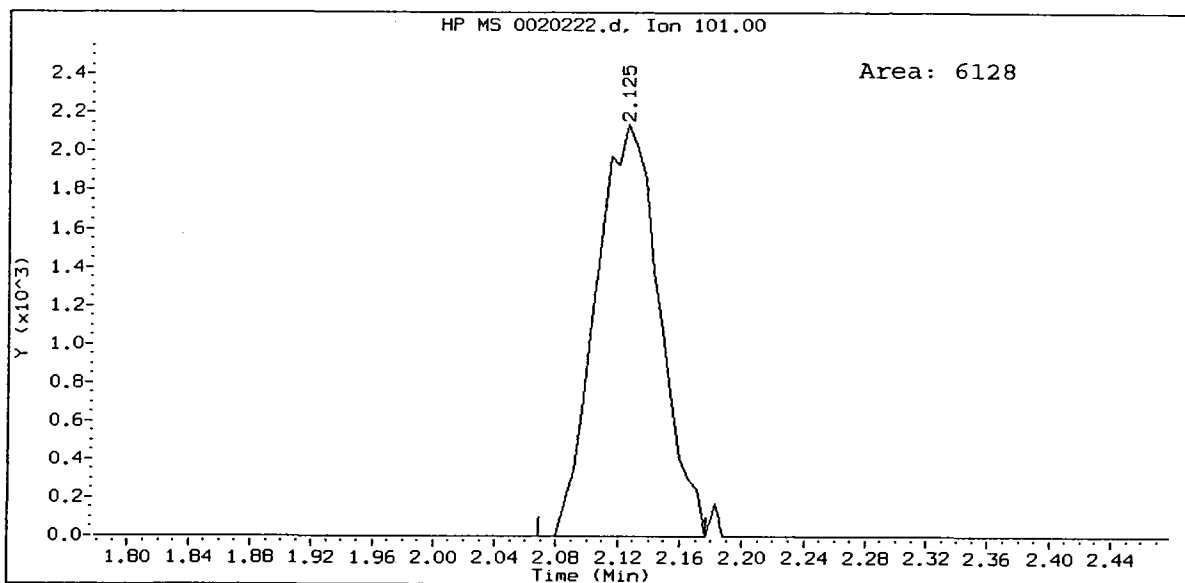
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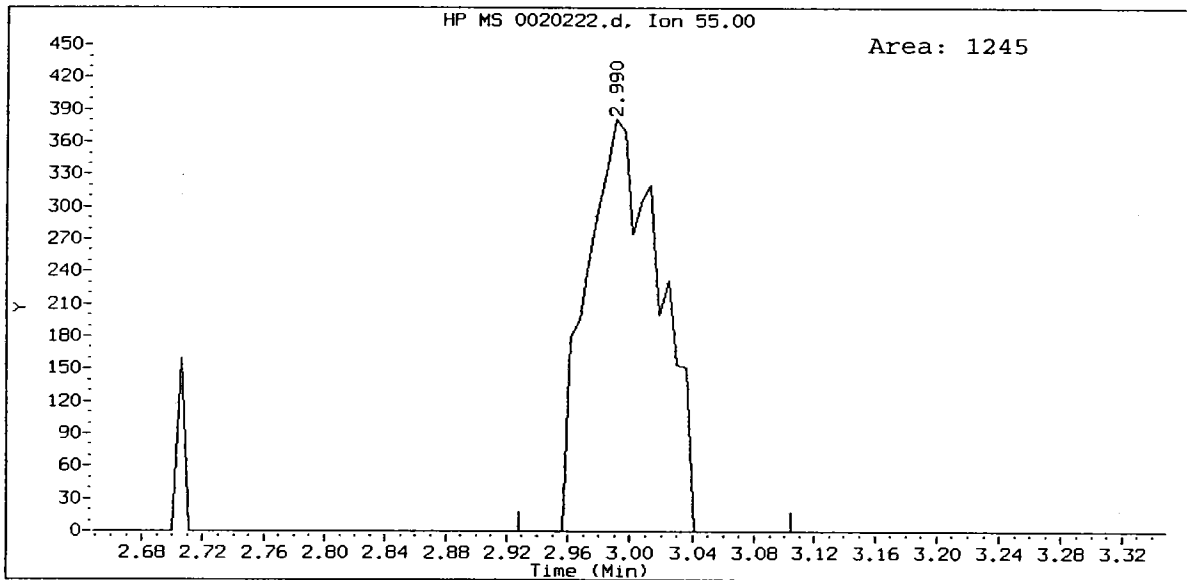
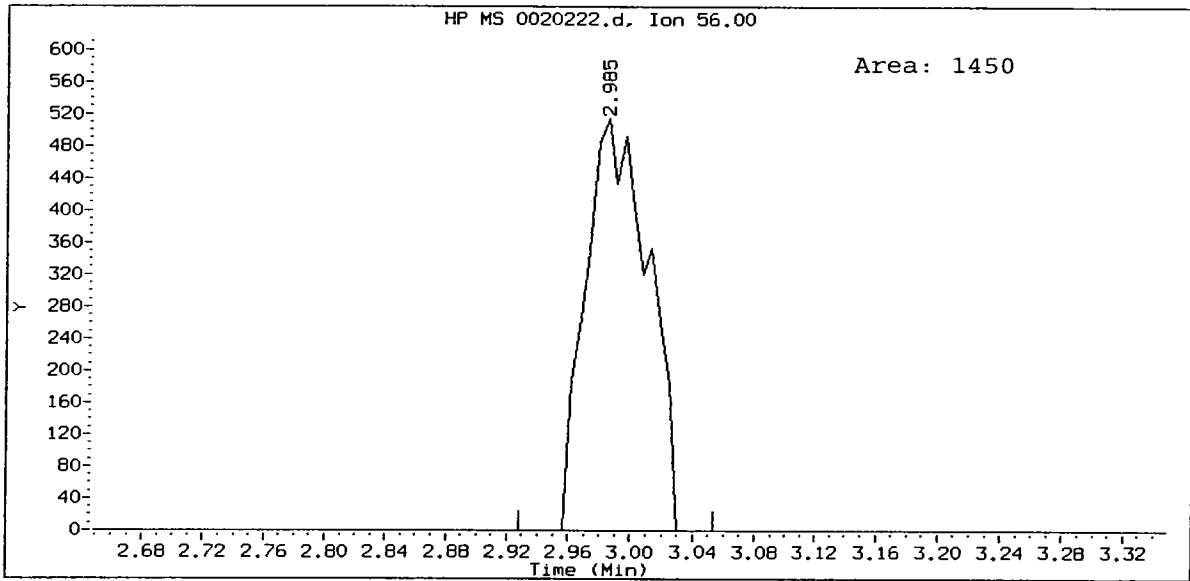


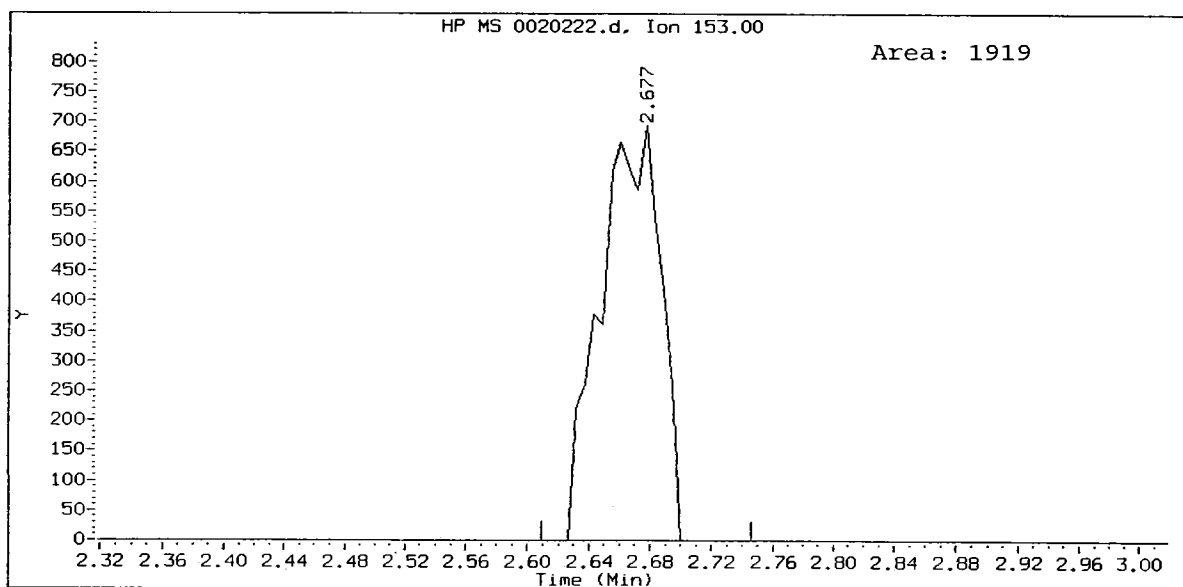
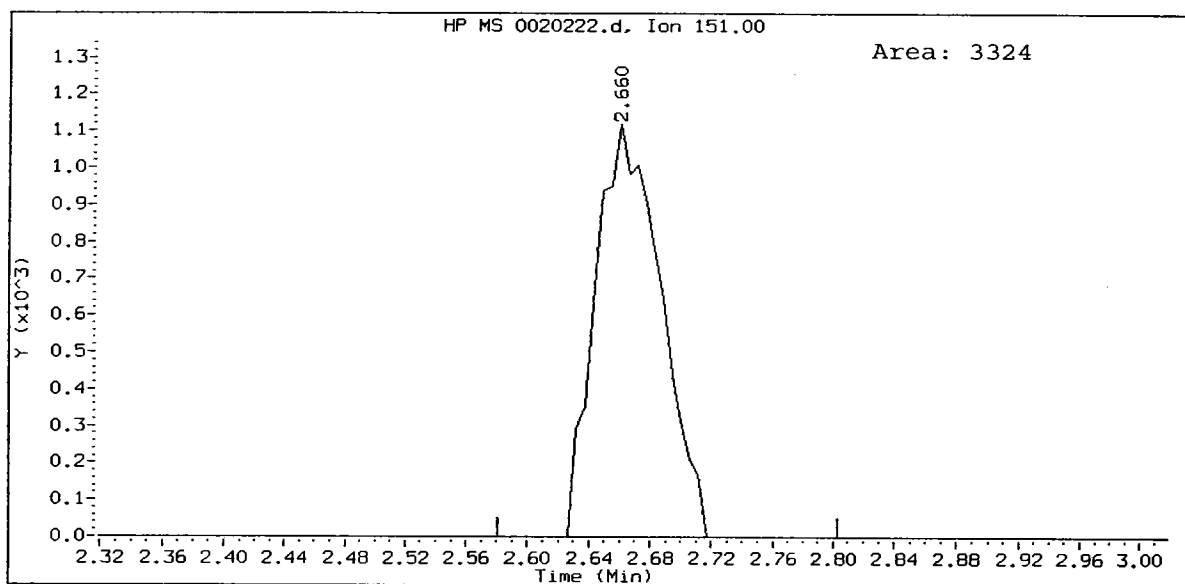
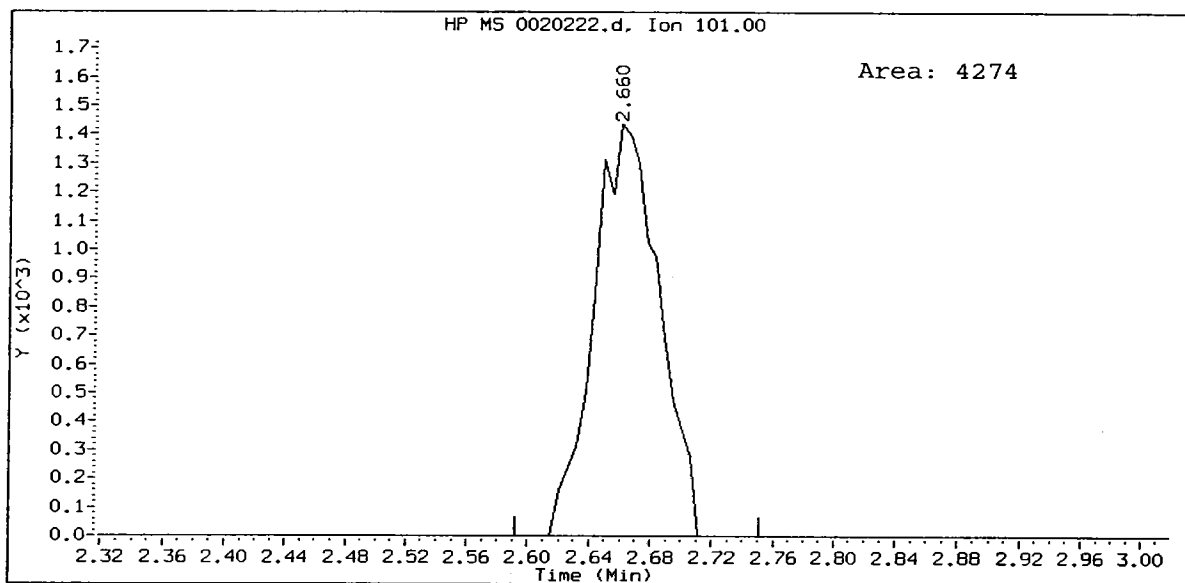


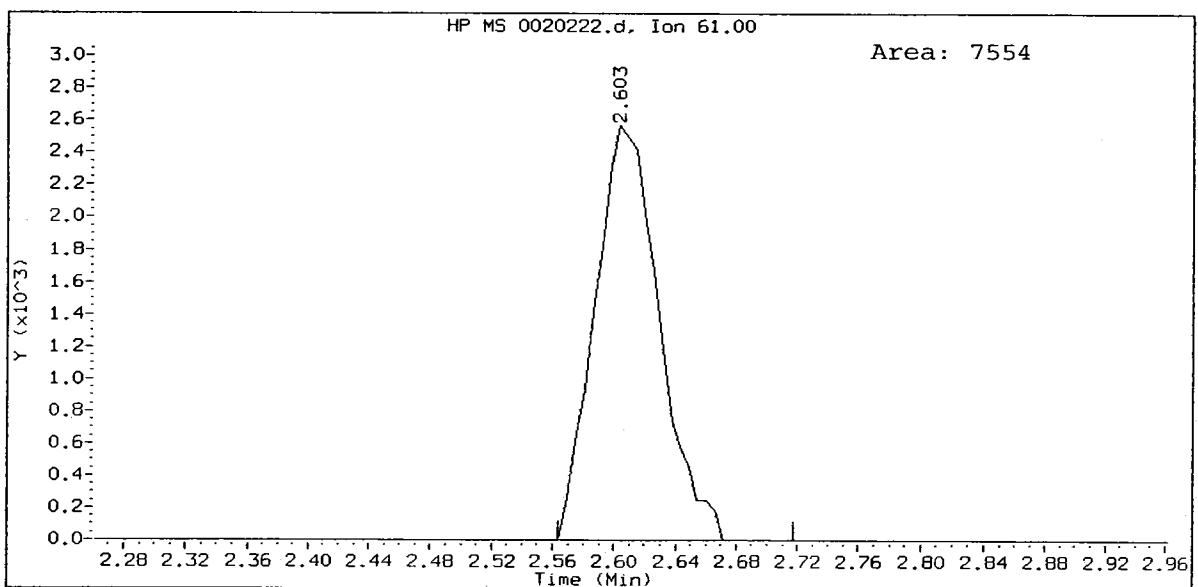
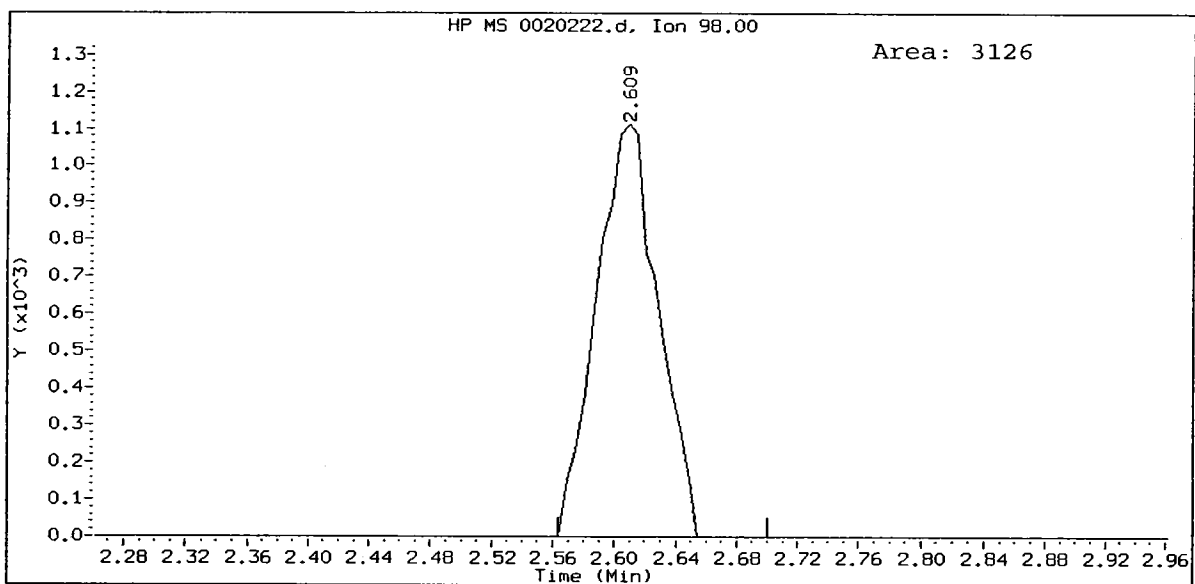
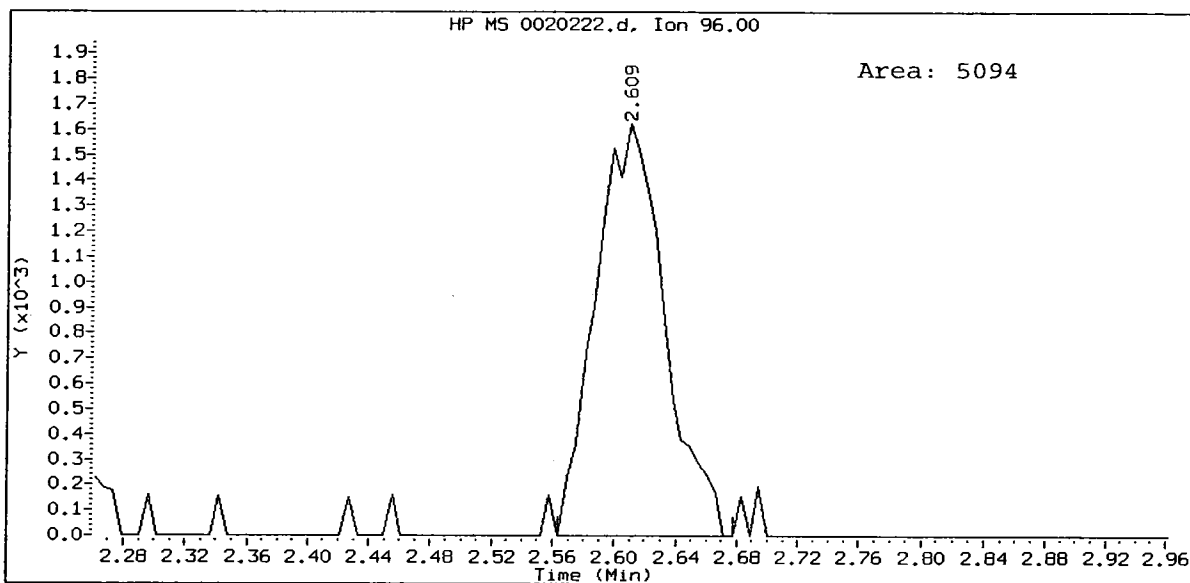


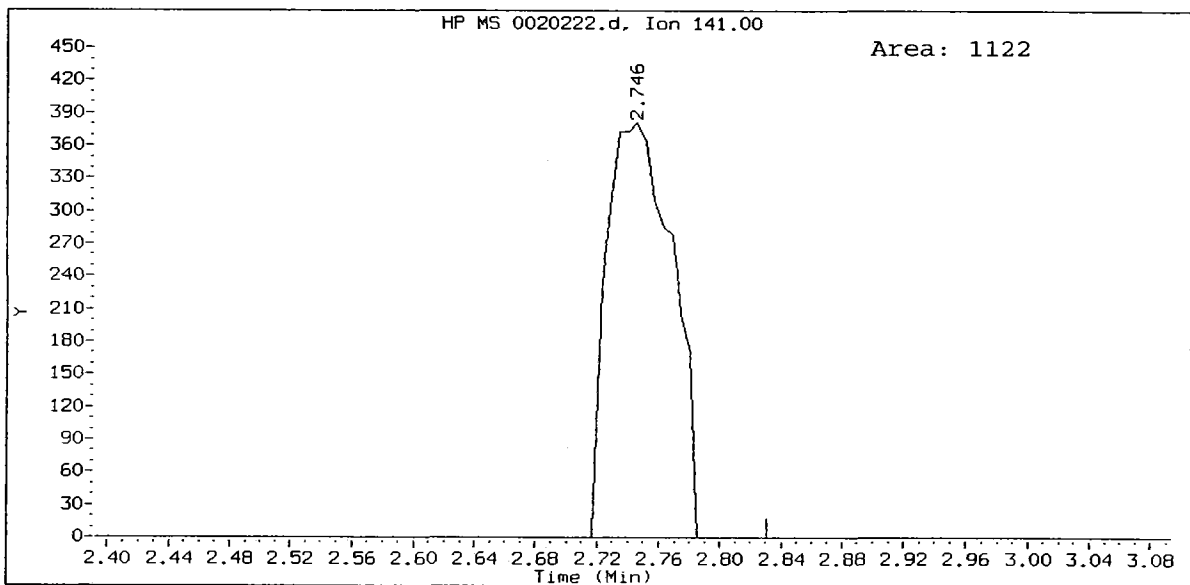
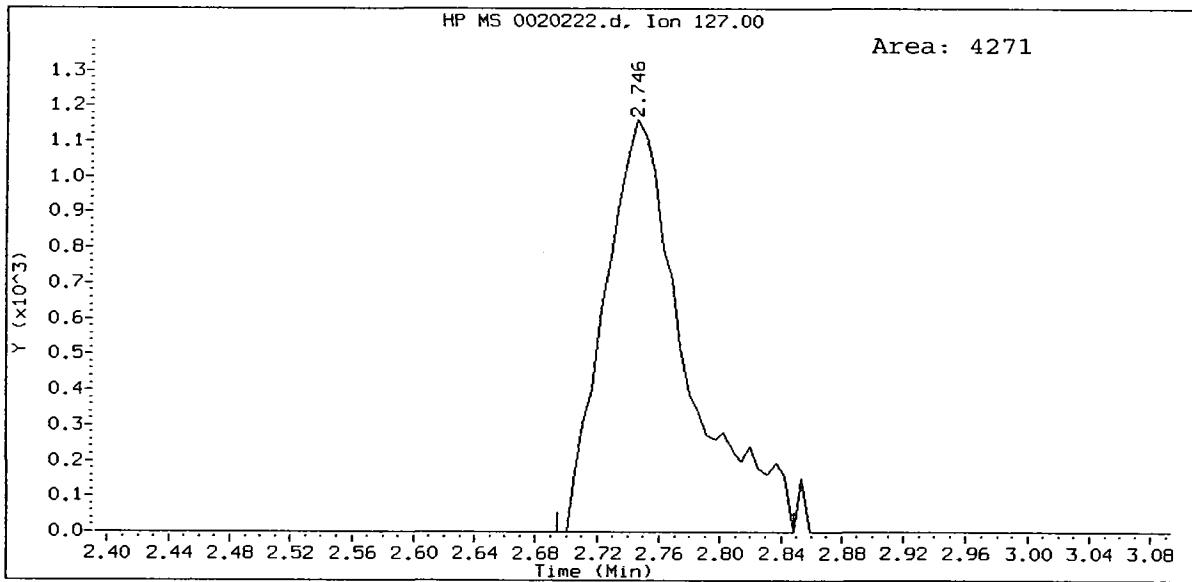
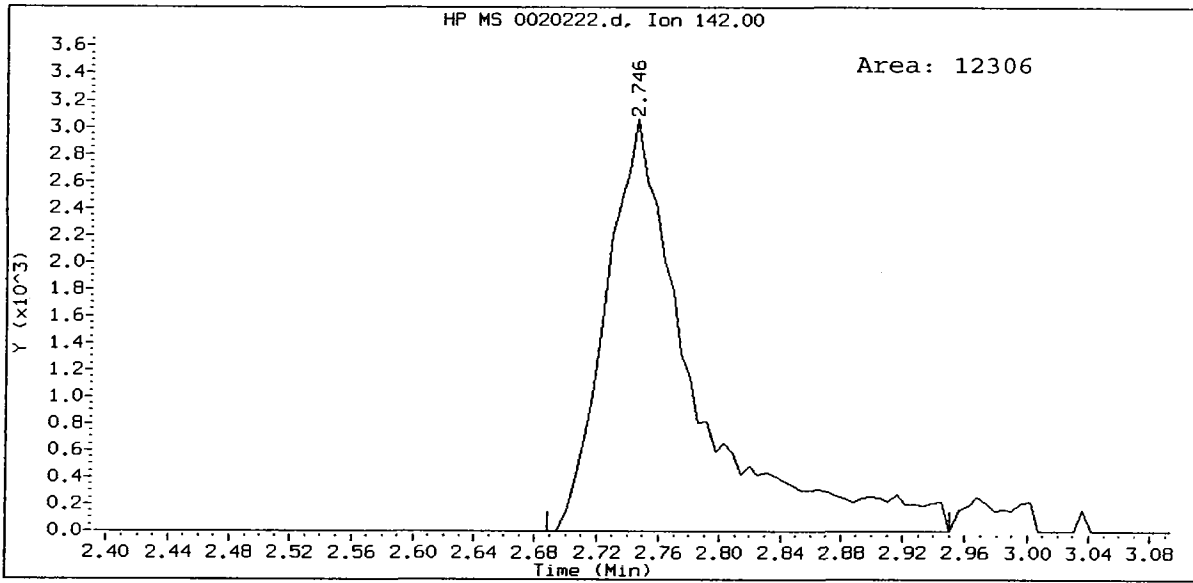


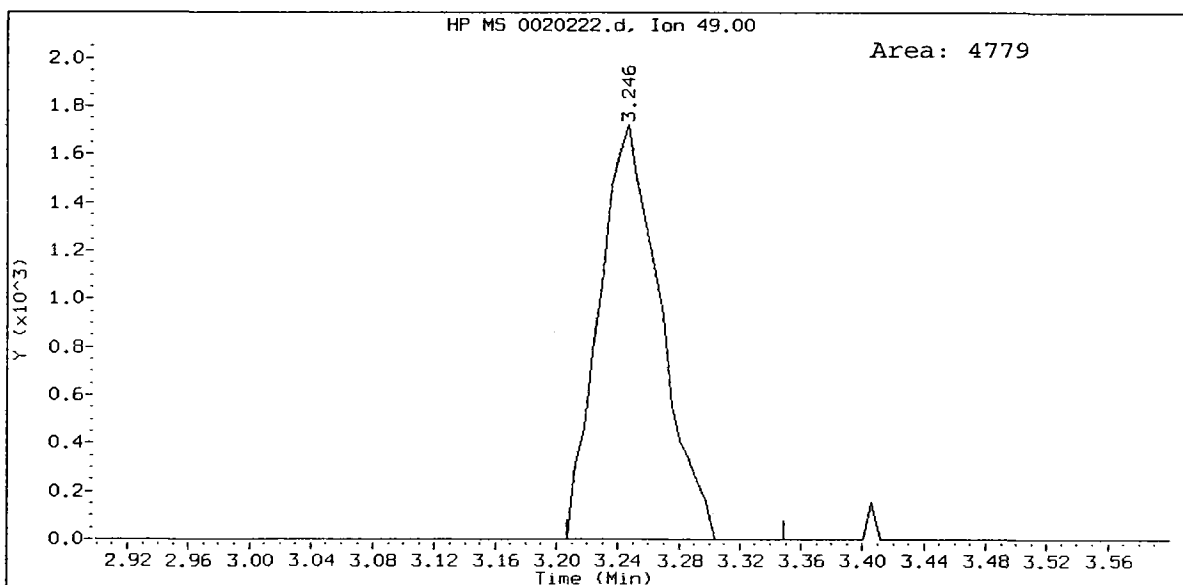
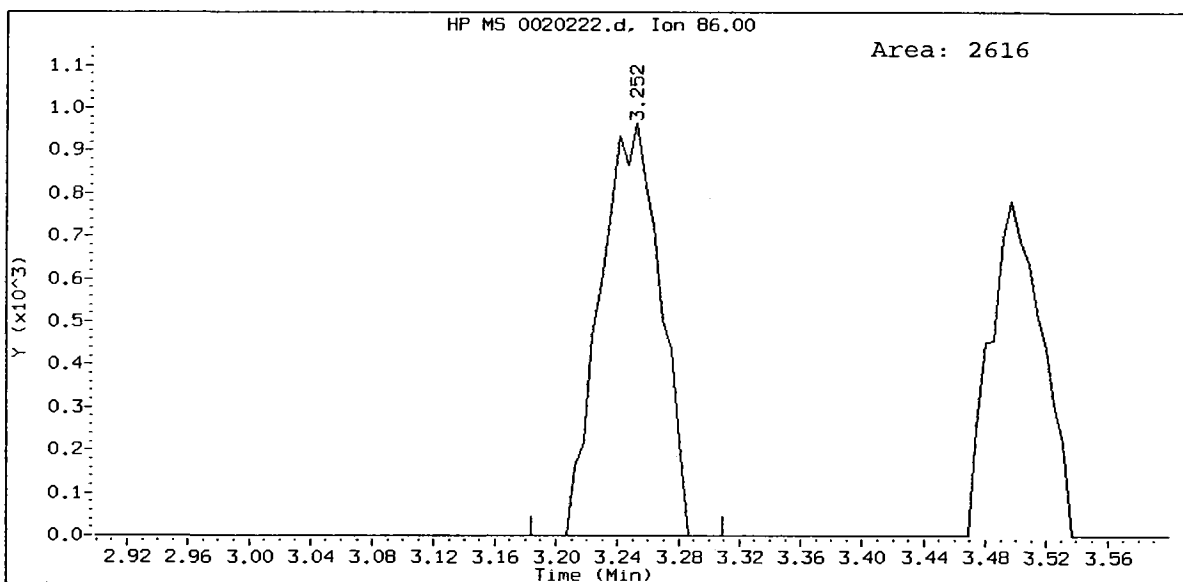
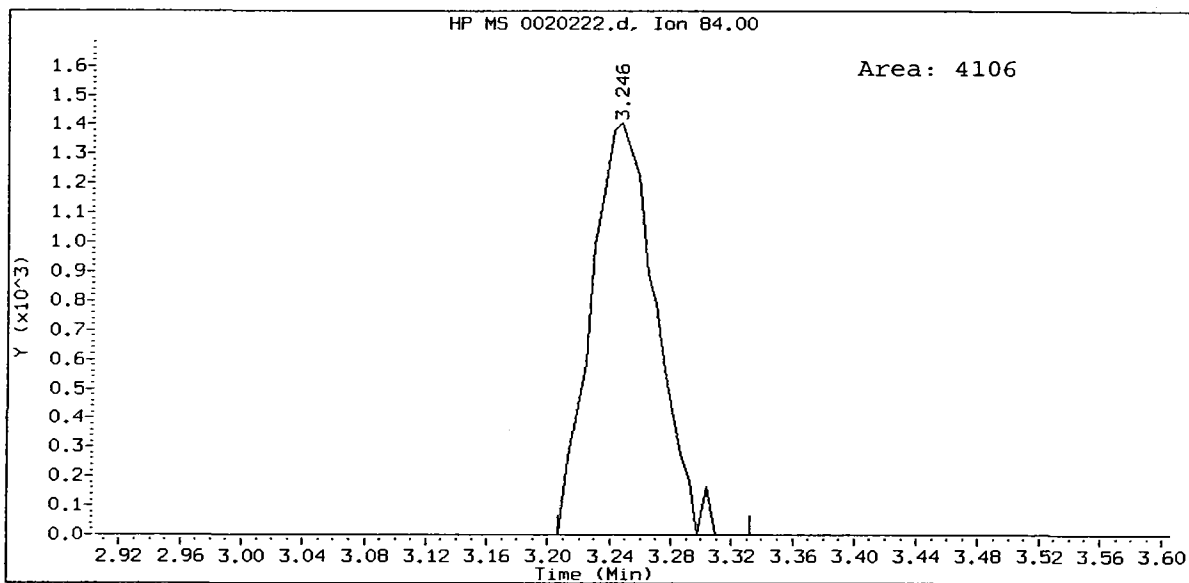
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Acrolein Amount: 1.00

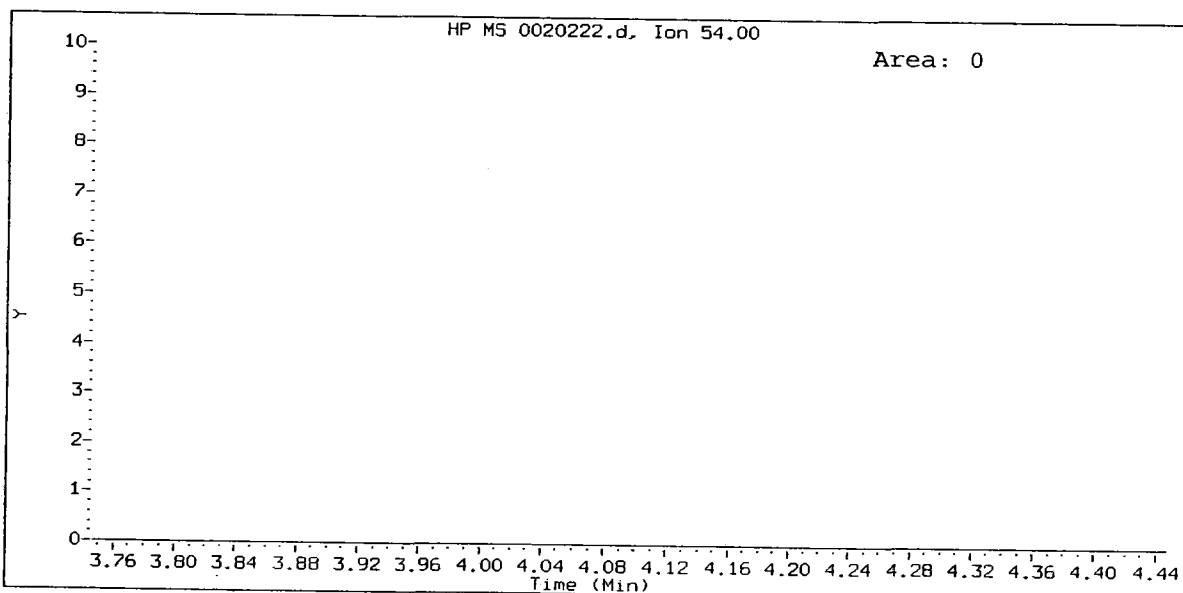
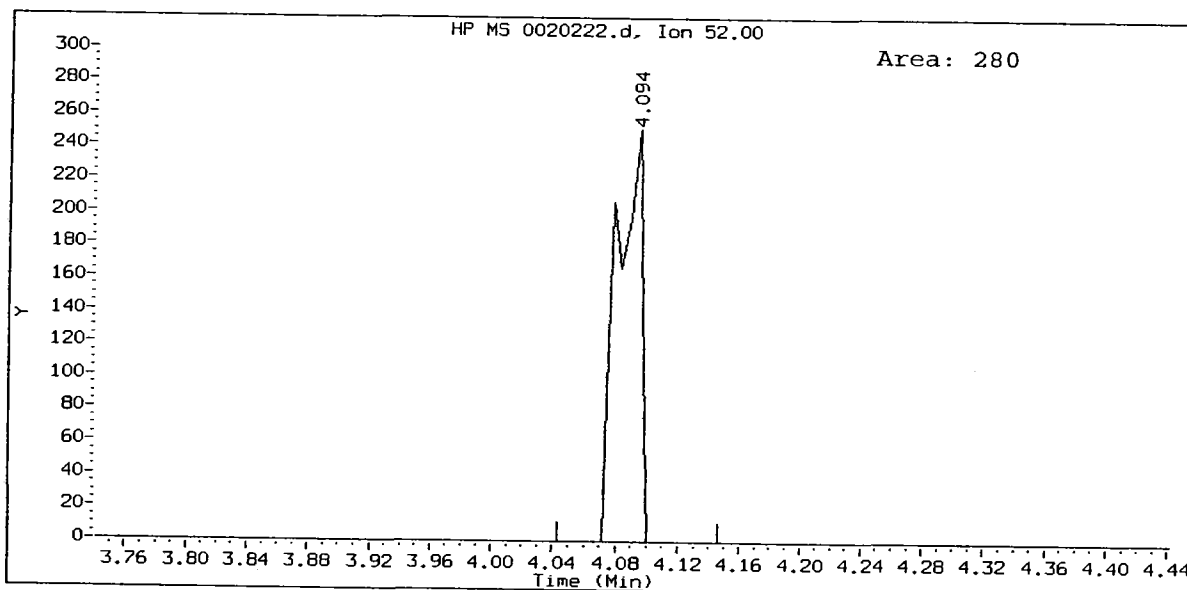
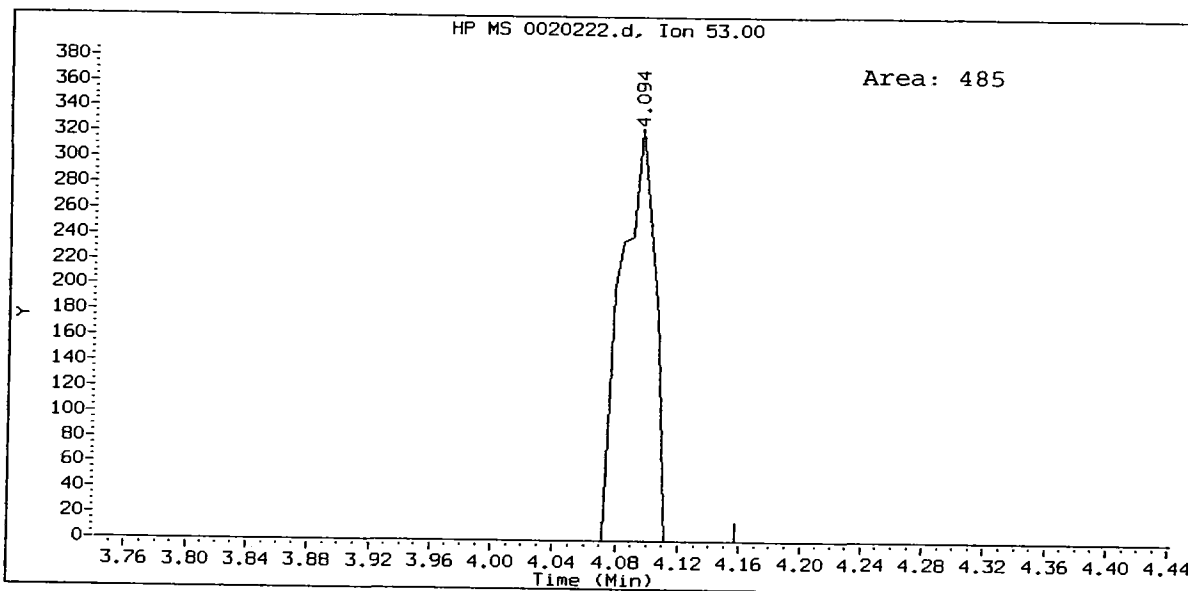


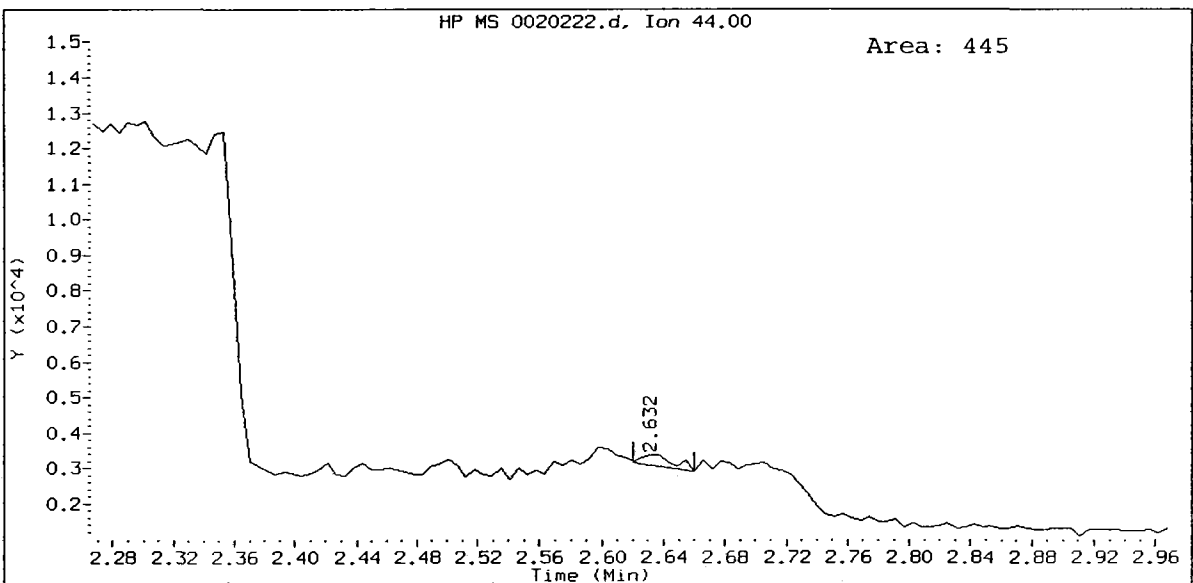
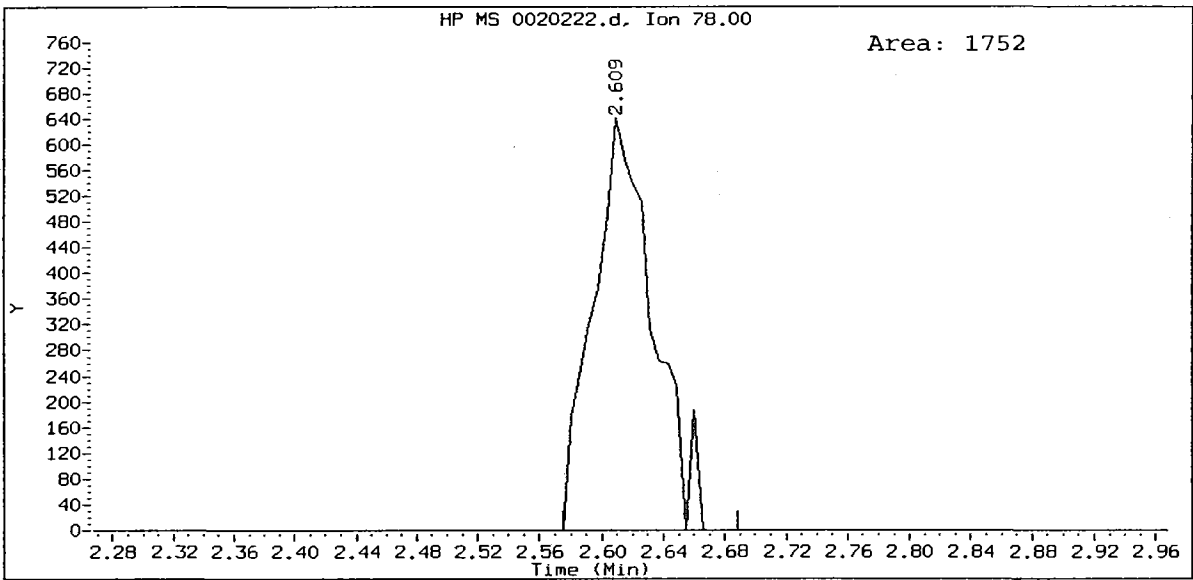
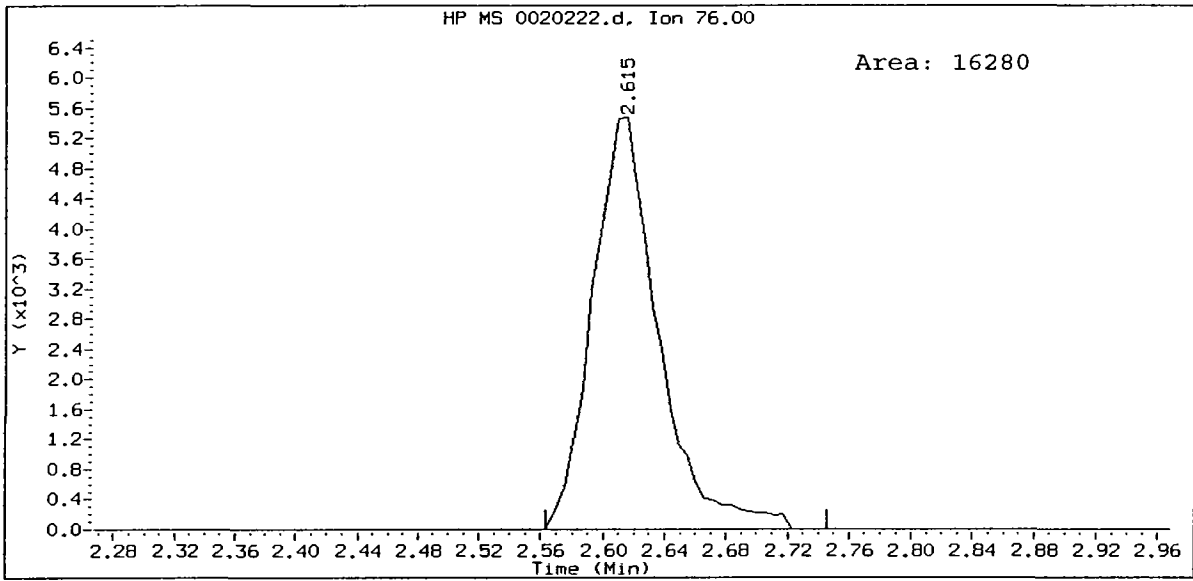




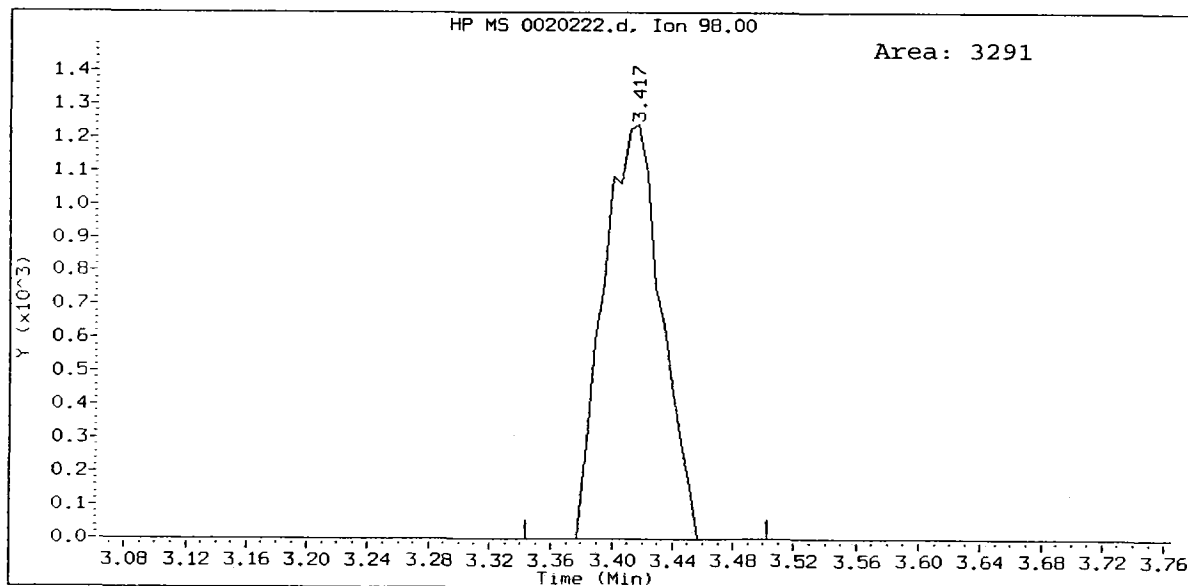
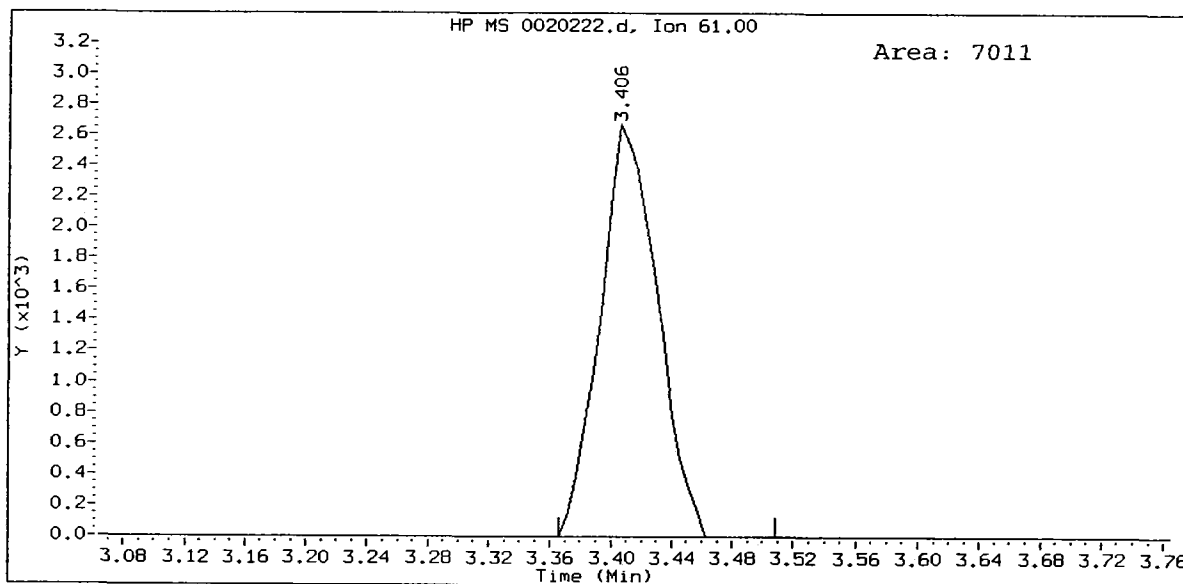
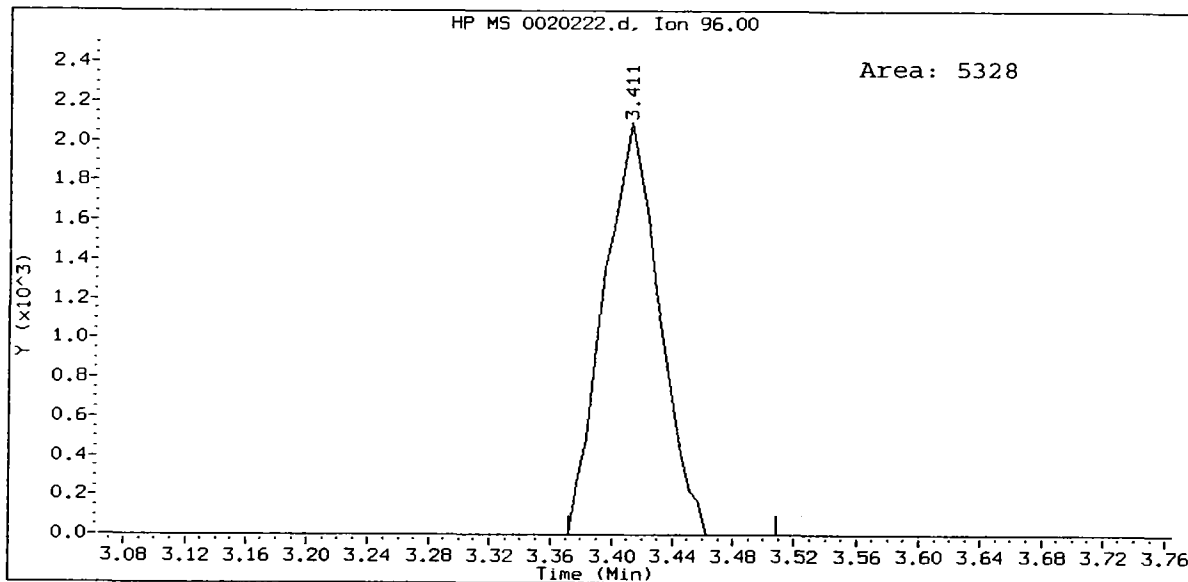


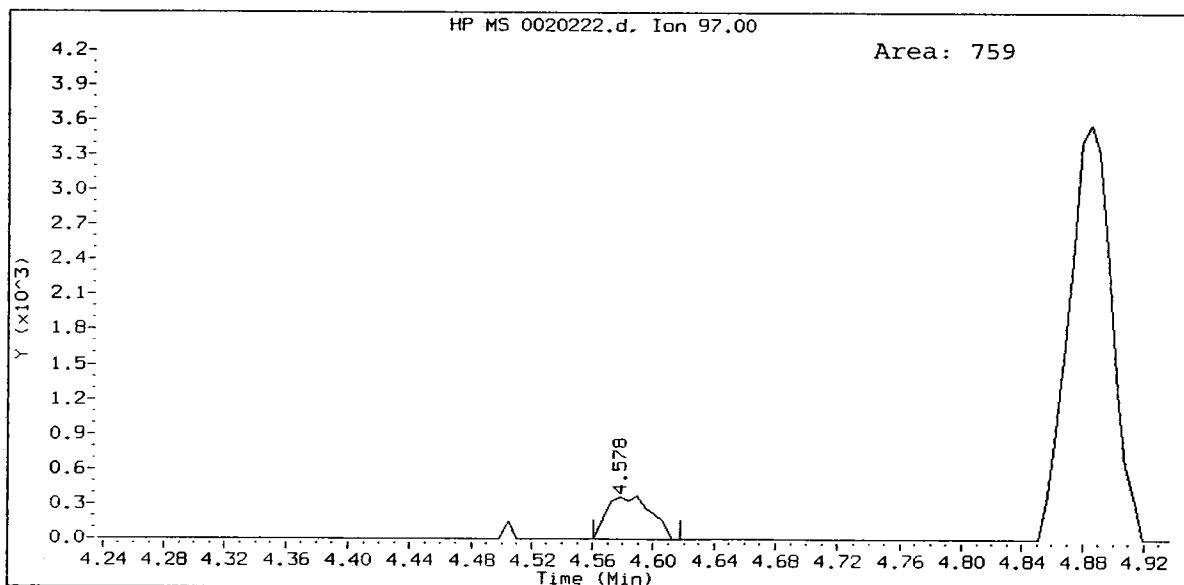
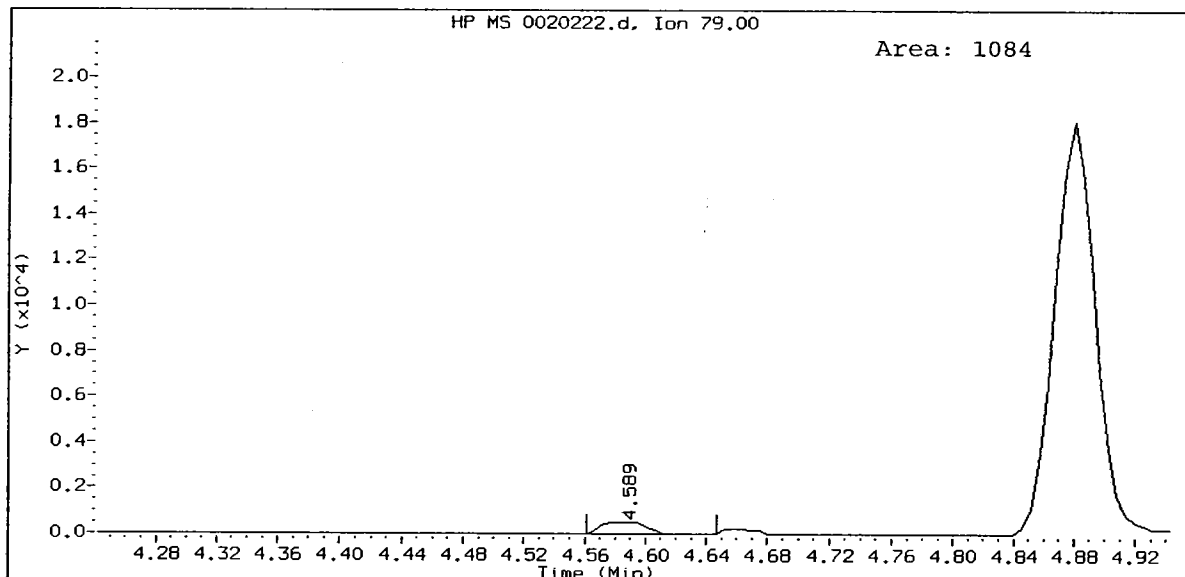
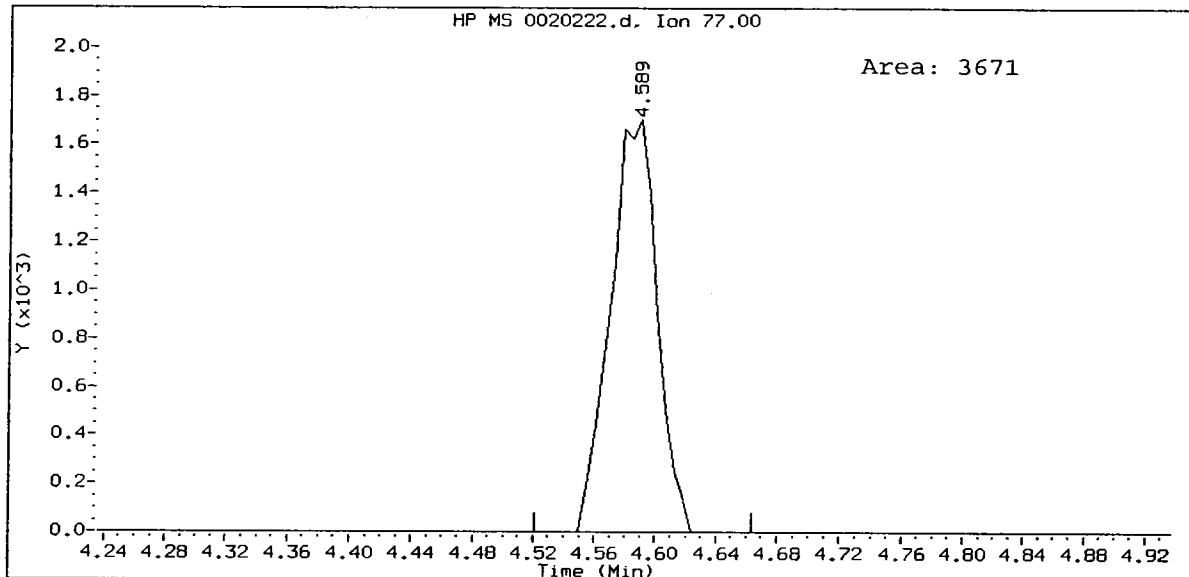




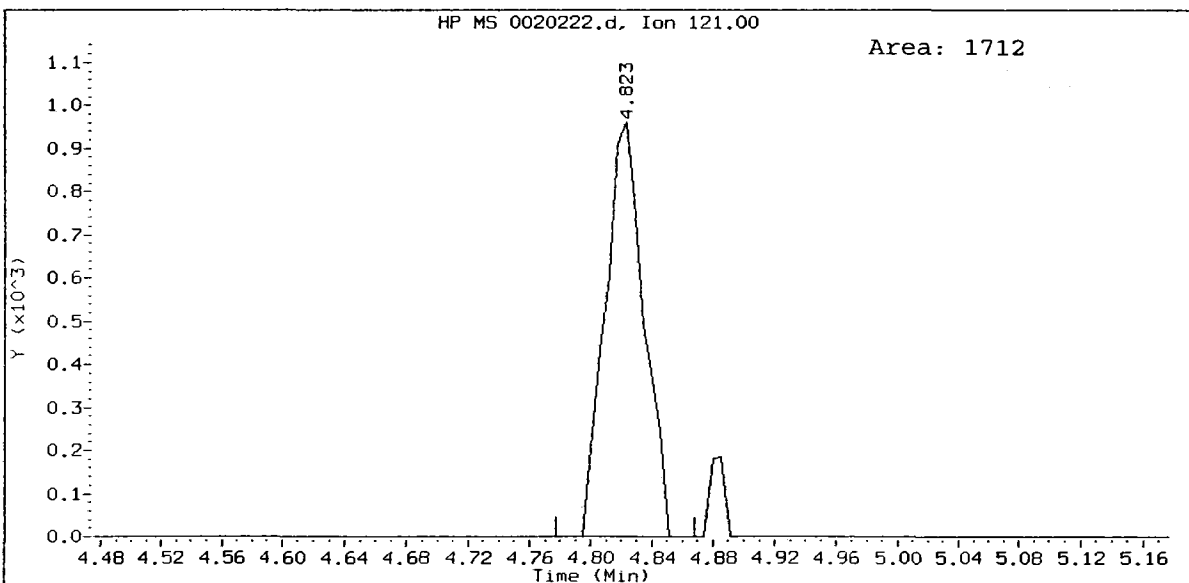
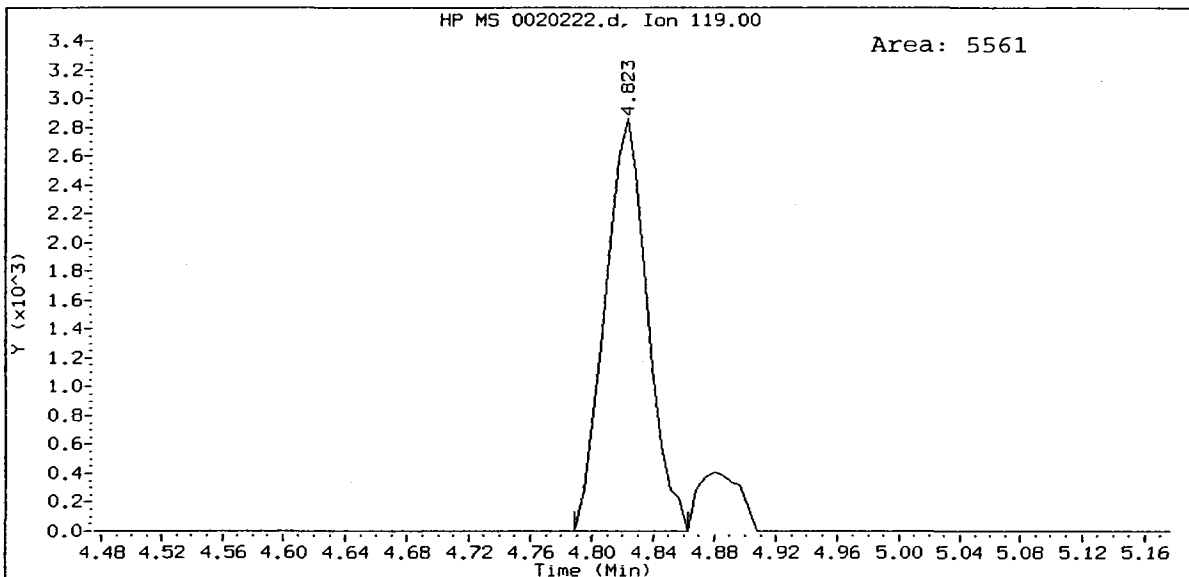
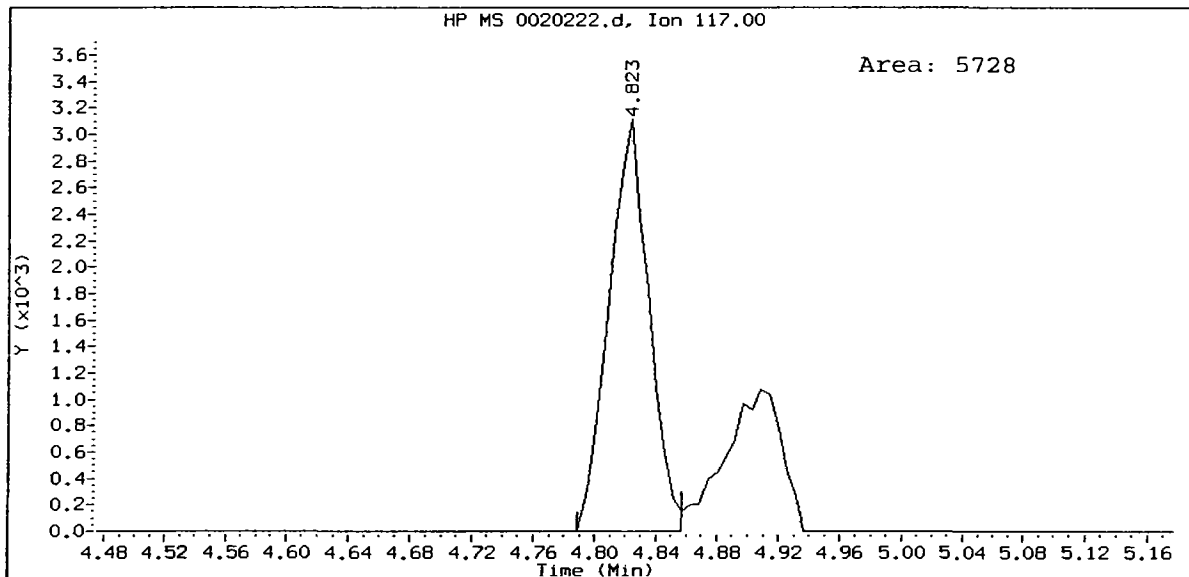


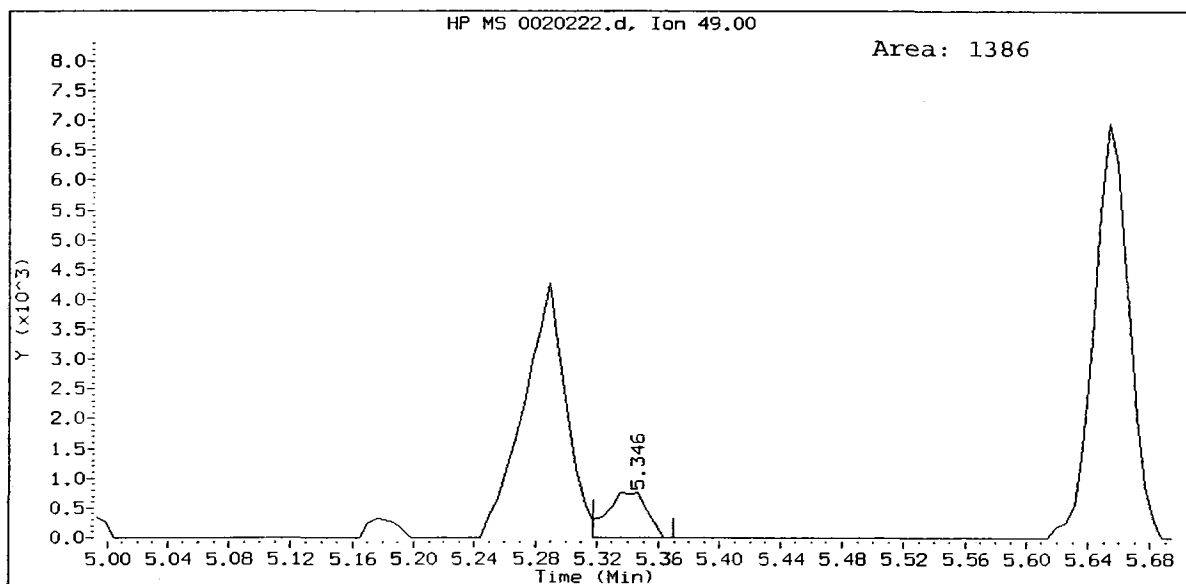
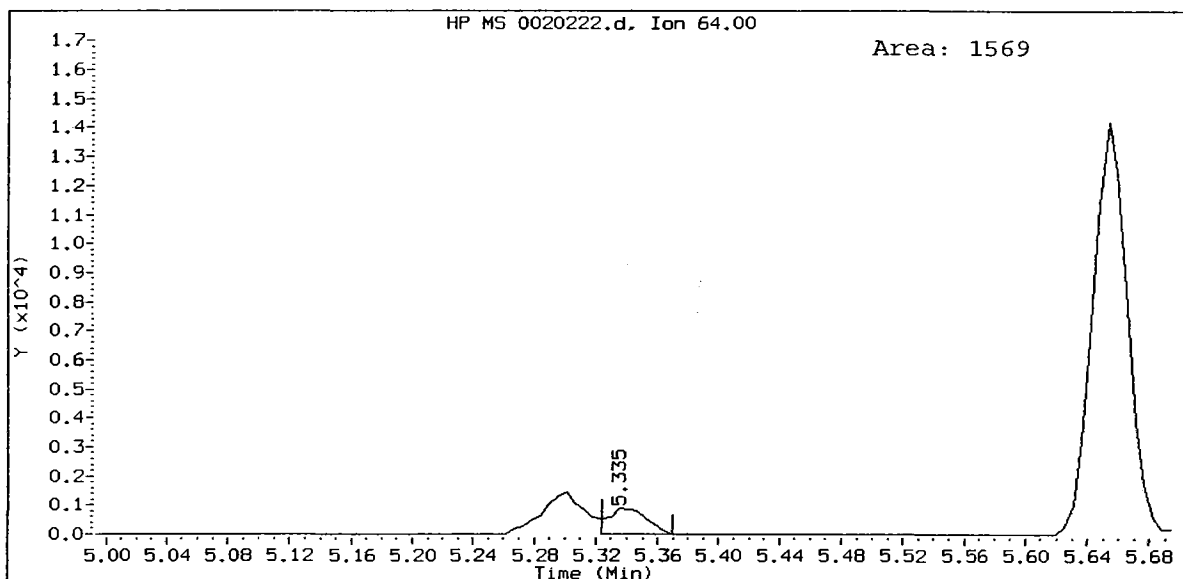
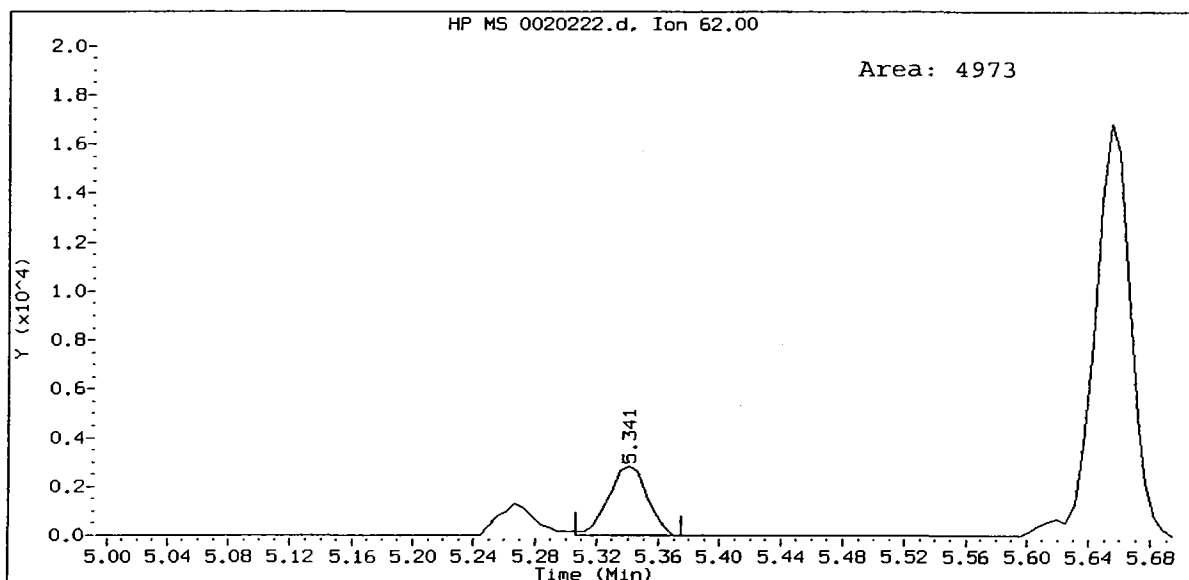
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Trans-1,2-Dichloroethene Amount: 0.20



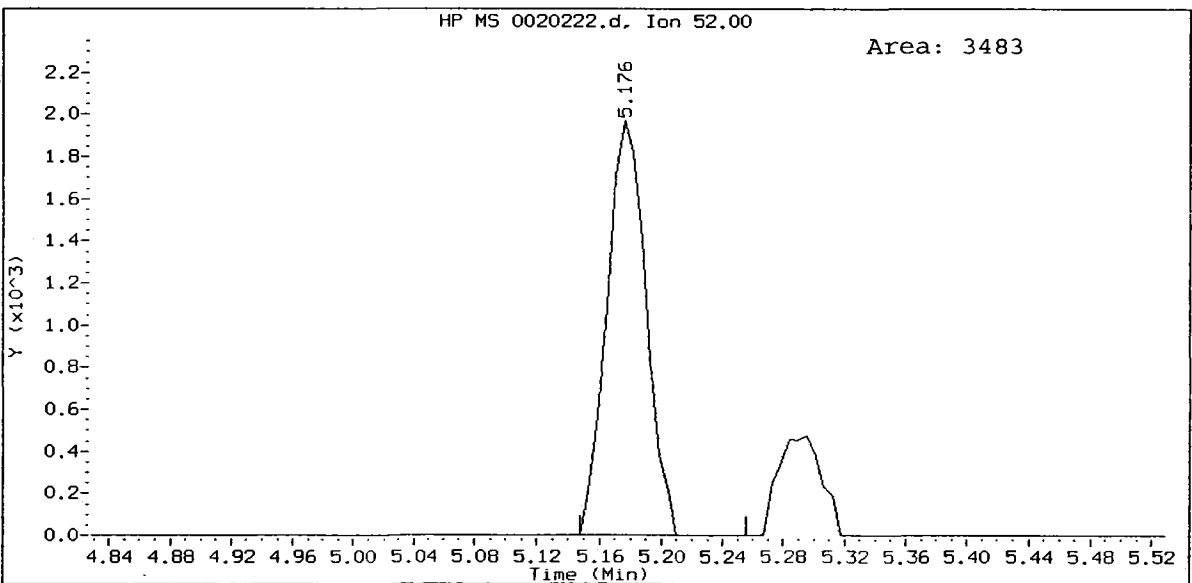
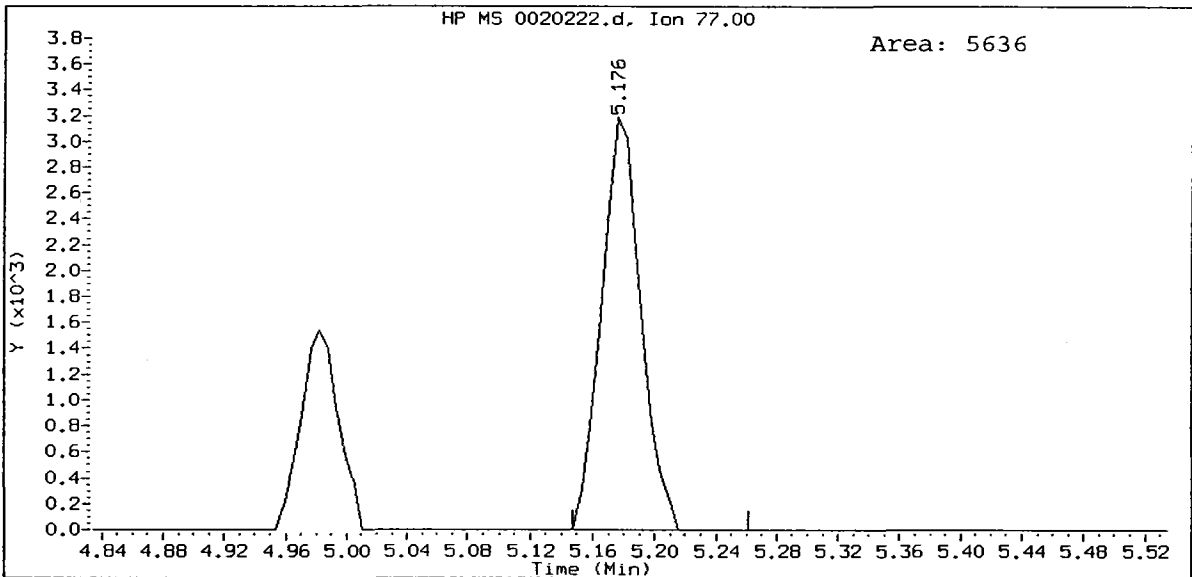
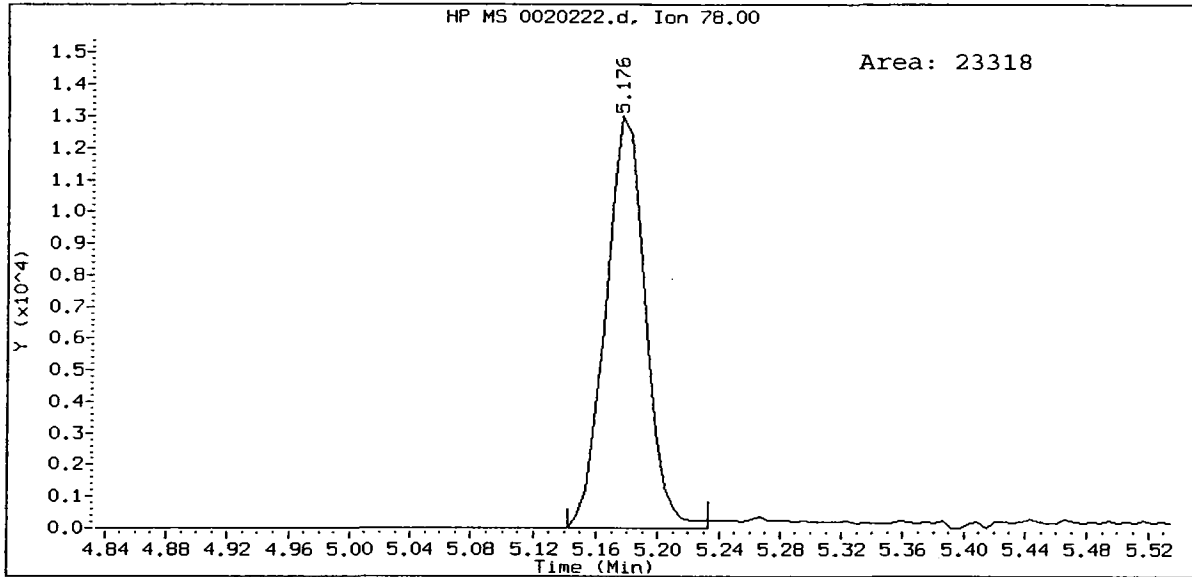


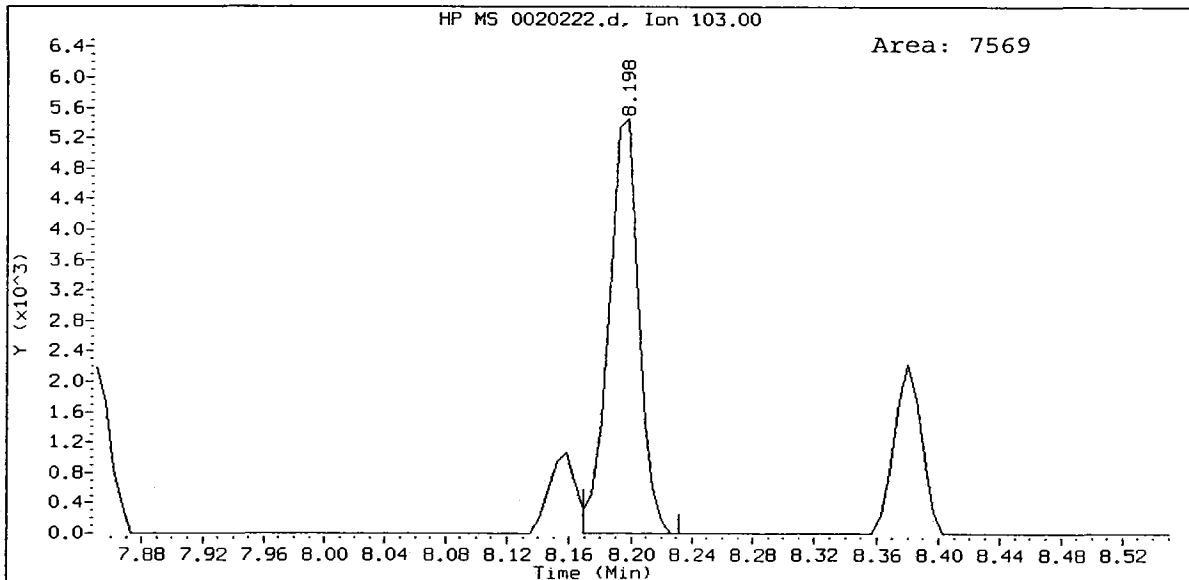
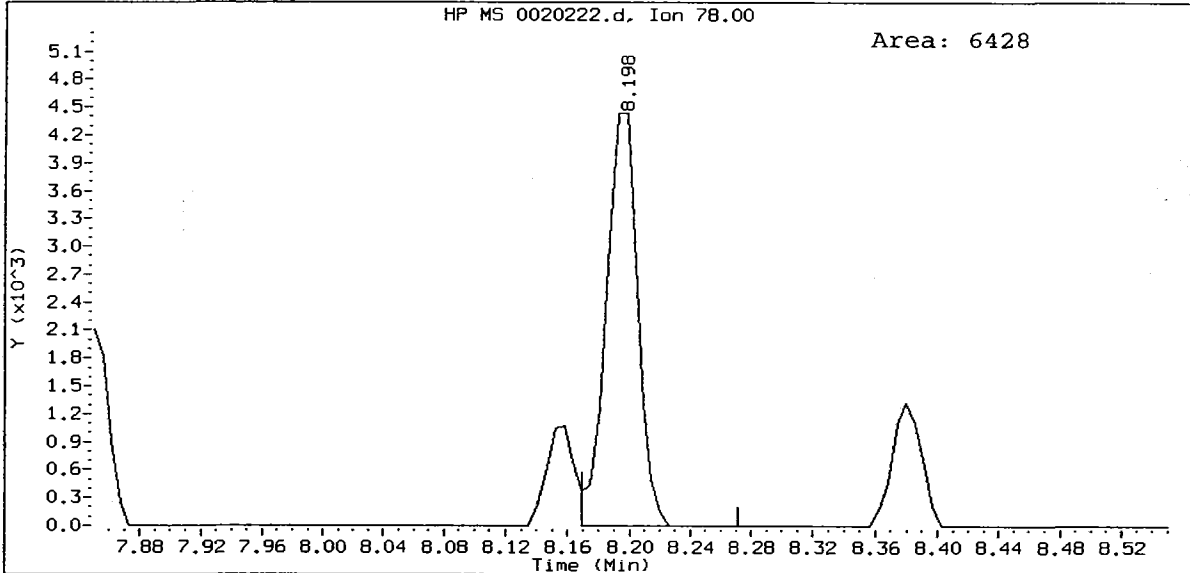
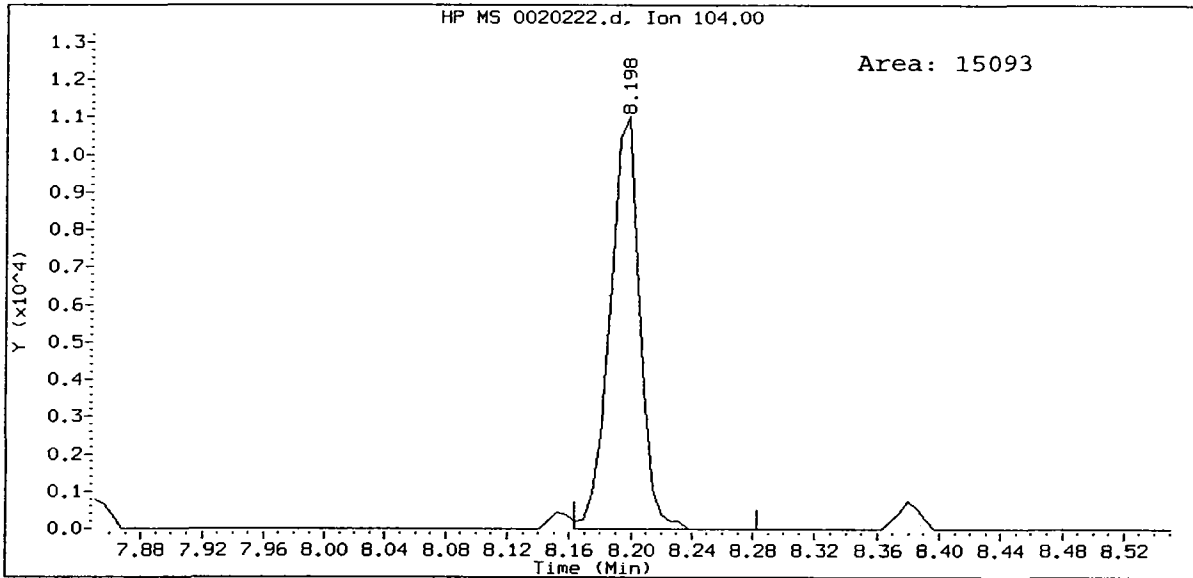
IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Carbon Tetrachloride Amount: 0.20

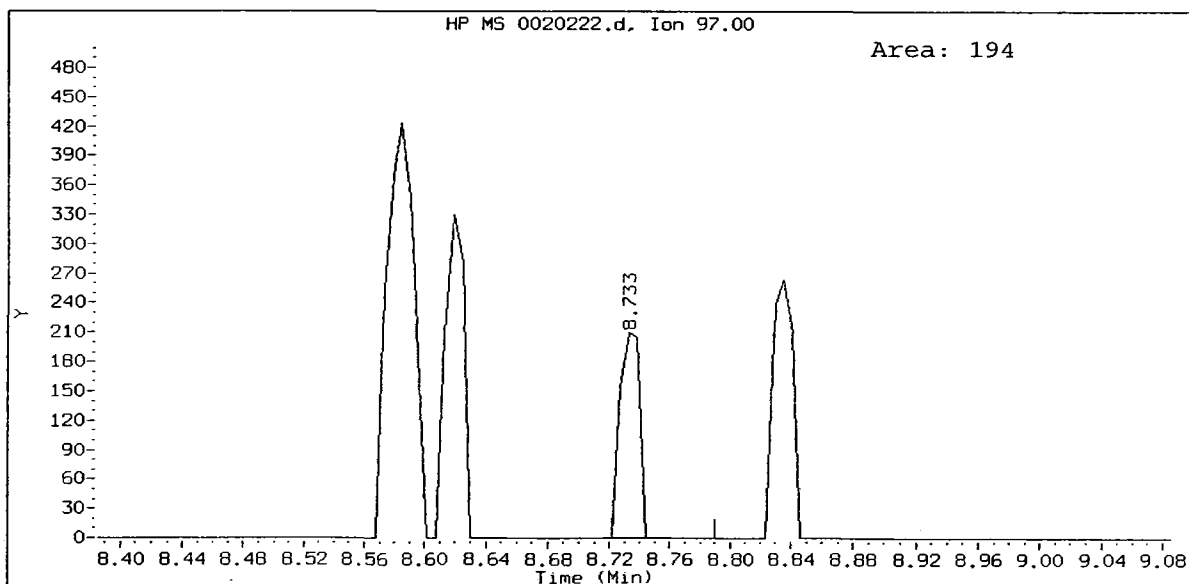
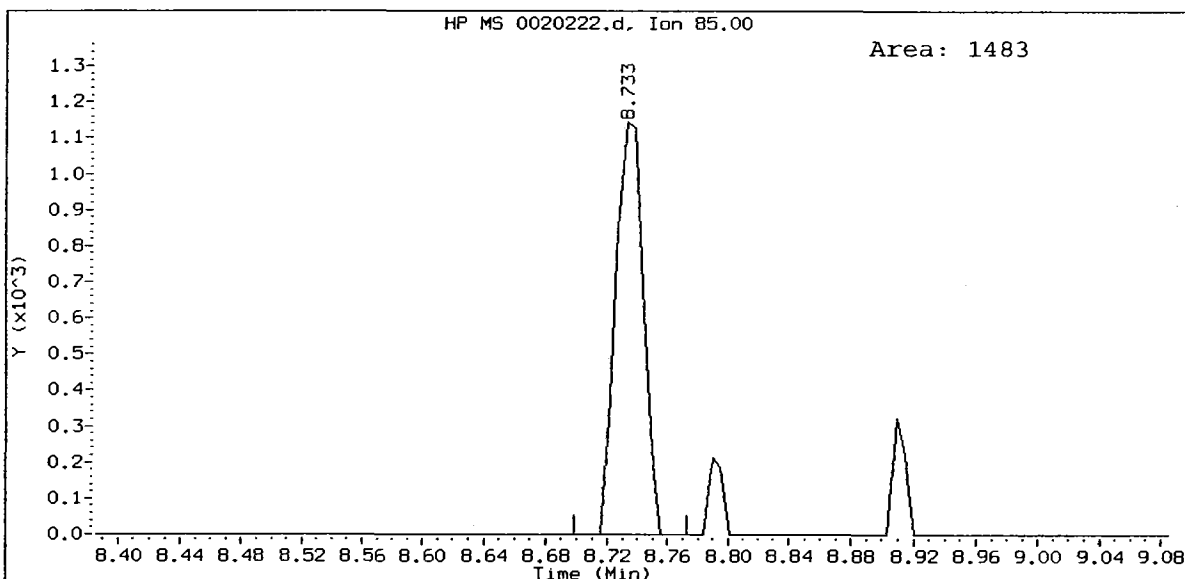
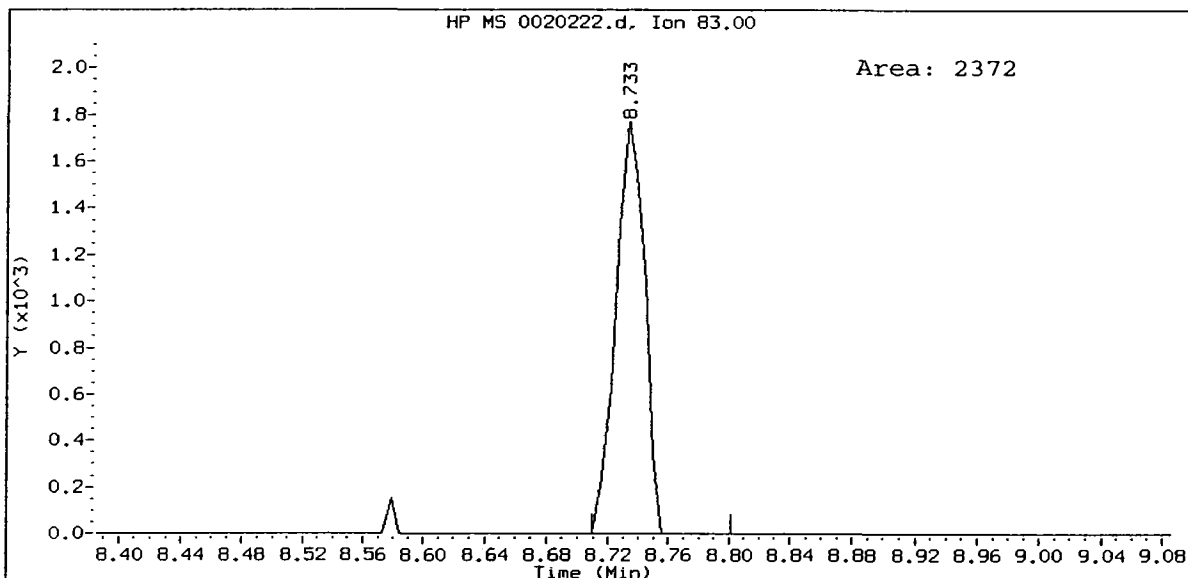


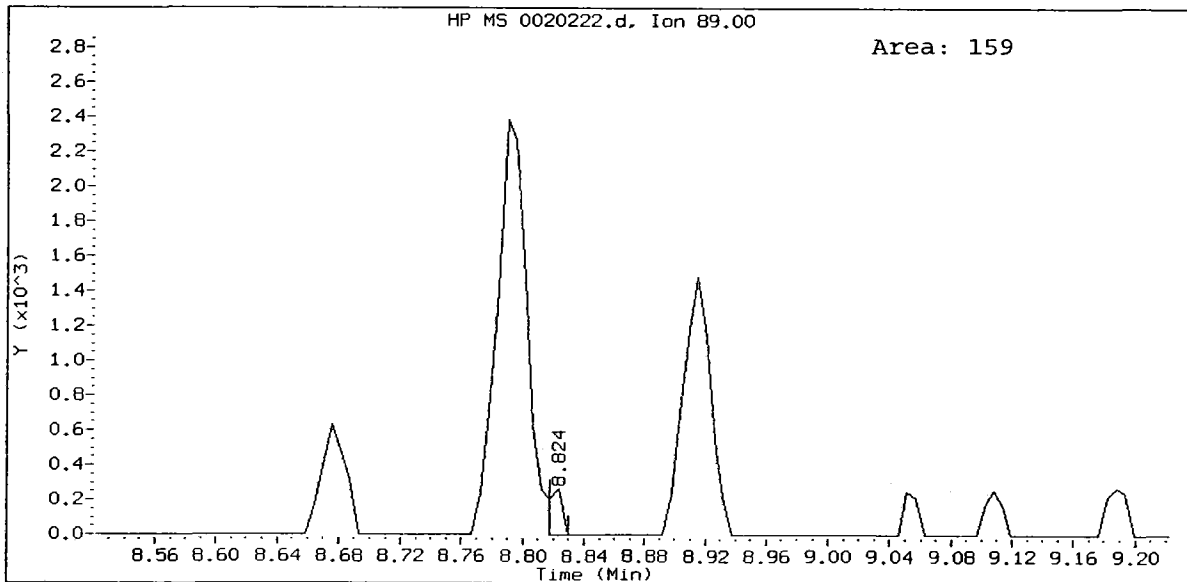
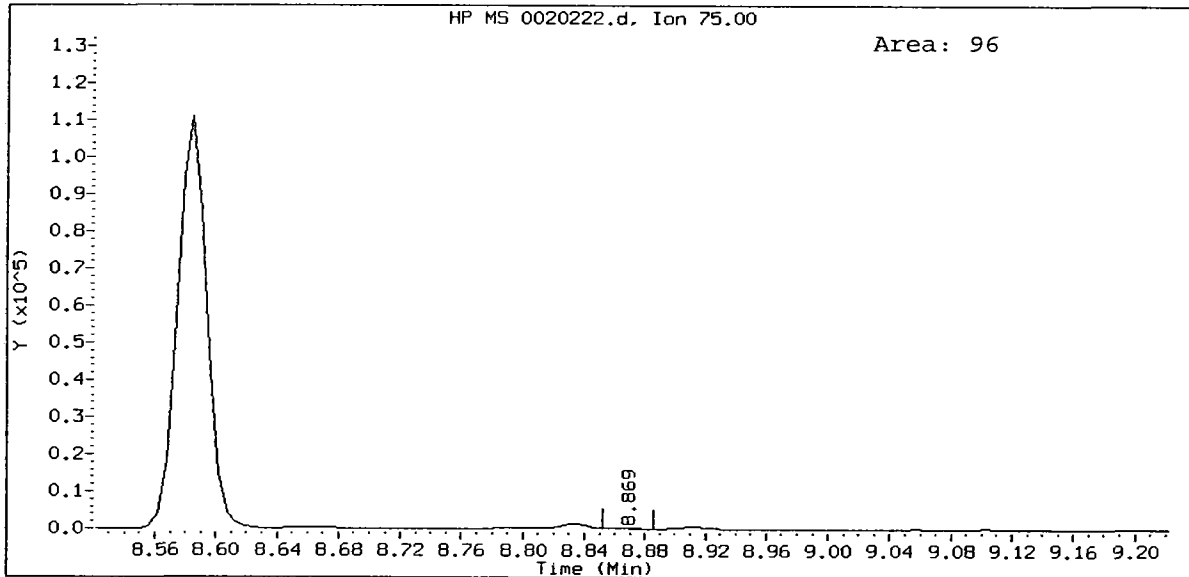
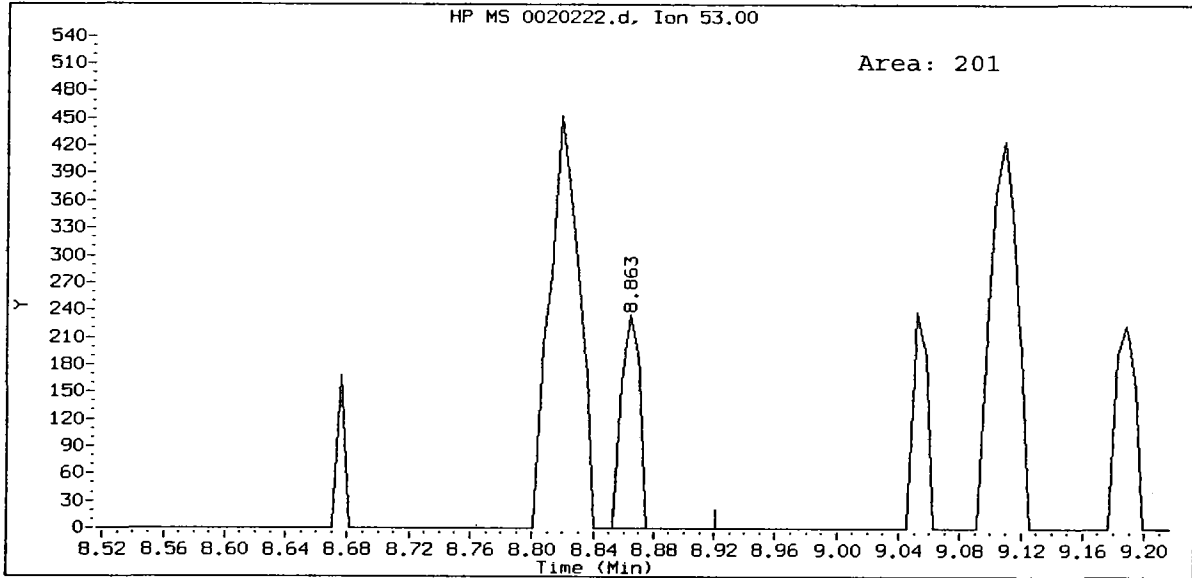


IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Benzene Amount: 0.21

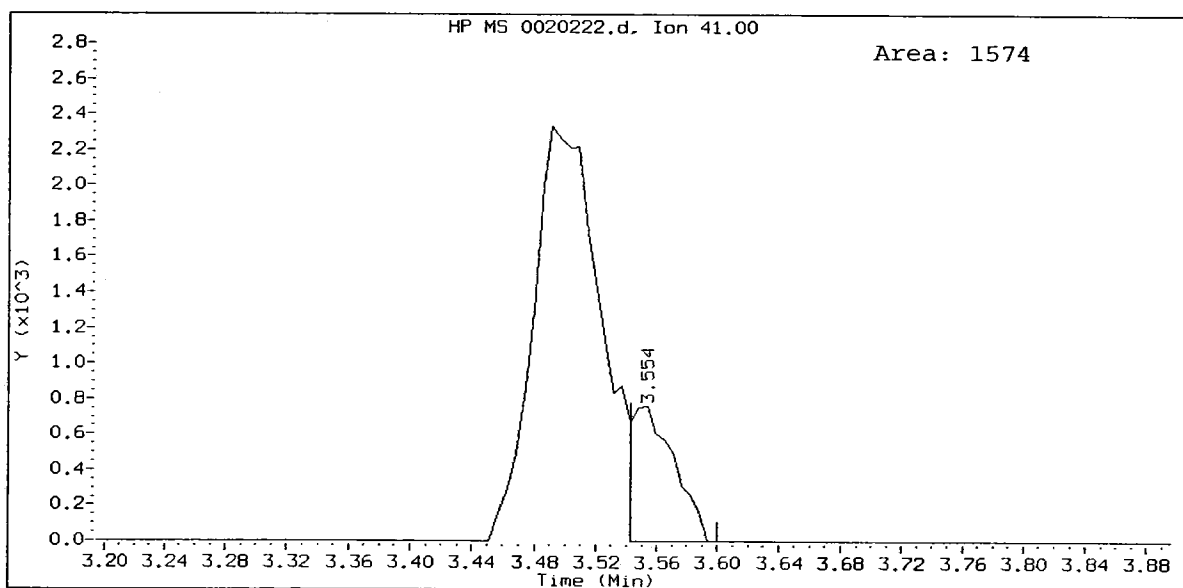
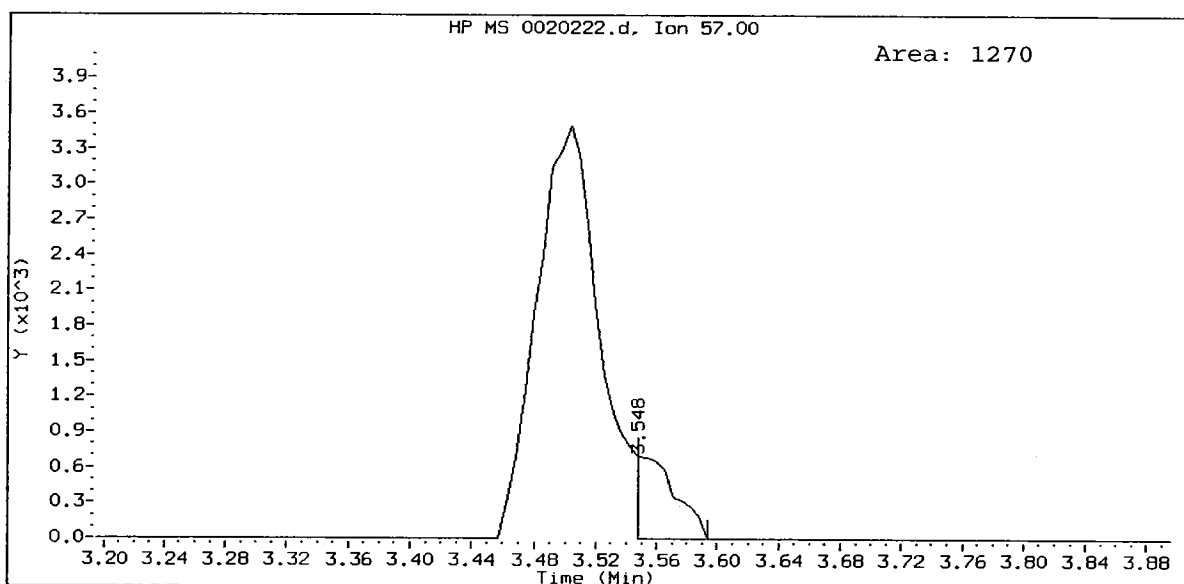
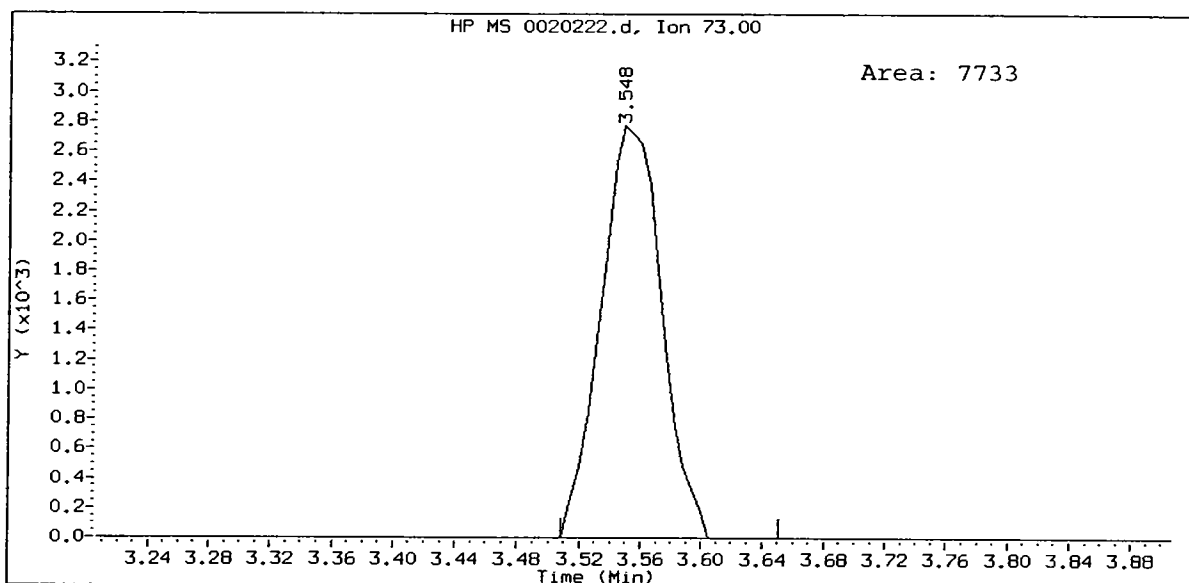








IC002, /chem1/nt10.i/22FEB10.b/0020222.d
Methyl tert butyl ether Amount: 0.21



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0050222.d
 Lab Smp Id: IC005 Client Smp ID: vstd2
 Inj Date : 22-FEB-2010 18:41
 Operator : ar Inst ID: nt10.i
 Smp Info : IC005,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.385	(0.263)	5842	0.50000	0.5713	
2 Chloromethane	50	1.551	1.545	(0.294)	9918	0.50000	0.6484 (M)	
3 Vinyl Chloride	62	1.613	1.613	(0.306)	9810	0.50000	0.5394	
4 Bromomethane	94	1.886	1.892	(0.358)	19838	0.50000	1.265 (M)	
5 Chloroethane	64	2.006	2.000	(0.380)	7721	0.50000	0.5406 (M)	
6 Trichlorofluoromethane	101	2.125	2.125	(0.403)	13375	0.50000	0.5232 (M)	
8 Acrolein	56	3.002	2.996	(0.569)	3096	2.50000	2.638 (M)	
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.672	2.666	(0.507)	9167	0.50000	0.5374 (M)	
10 Acetone	43	3.332	3.326	(0.632)	5664	2.50000	3.015 (M)	
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	10808	0.50000	0.5327	
12 Bromoethane	108	2.882	2.882	(0.547)	6641	0.50000	0.5363	
13 Iodomethane	142	2.746	2.740	(0.521)	17494	0.50000	0.6380 (M)	
14 Methylene Chloride	84	3.246	3.252	(0.616)	8700	0.50000	0.5148	
15 Acrylonitrile	53	4.089	4.089	(0.775)	1079	0.50000	0.4510 (T)	
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	15695	0.50000	0.5261 (M)	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
17 Carbon Disulfide	76	2.609	2.615	(0.495)	35182	0.50000	0.5296 (M)
18 Trans-1,2-Dichloroethene	96	3.412	3.411	(0.647)	10752	0.50000	0.5043
20 Vinyl Acetate	43	4.288	4.282	(0.813)	8698	0.50000	0.4610
21 1,1-Dichloroethane	63	4.026	4.020	(0.764)	17034	0.50000	0.4904 (M)
22 2-Butanone	72	4.999	4.994	(0.948)	2958	2.50000	2.448
23 2,2-Dichloropropane	77	4.590	4.584	(0.870)	6953	0.50000	0.5031
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	11766	0.50000	0.4947
25 Pentafluorobenzene	168	5.272	5.272	(1.000)	407710	10.0000	
26 Chloroform	83	4.737	4.737	(0.899)	18122	0.50000	0.4897
27 Bromochloromethane	128	4.669	4.663	(0.886)	4060	0.50000	0.5025
28 Dibromofluoromethane	111	4.880	4.880	(0.926)	167035	10.0000	9.824
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	14582	0.50000	0.5066
30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	15943	0.50000	0.4927
31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	11575	0.50000	0.4889
32 d4-1,2-Dichloroethane	65	5.290	5.289	(1.003)	148020	10.0000	9.899
33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	9626	0.50000	0.4898 (M)
34 Benzene	78	5.181	5.181	(0.916)	44298	0.50000	0.4846
35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	651788	10.0000	
36 Trichloroethene	95	5.620	5.620	(0.993)	11173	0.50000	0.4561
37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	9662	0.50000	0.4882
38 Bromodichloromethane	83	6.052	6.052	(1.069)	11779	0.50000	0.4706
39 Dibromomethane	93	5.927	5.927	(1.047)	3724	0.50000	0.4709
40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	2103	0.50000	0.4476
41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	8117	2.50000	2.325
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	12566	0.50000	0.4511
43 d8-Toluene	98	6.633	6.633	(1.172)	799486	10.0000	10.067
44 Toluene	92	6.667	6.667	(1.178)	30532	0.50000	0.4897
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	8700	0.50000	0.4248
46 2-Hexanone	43	7.526	7.526	(0.975)	12384	2.50000	2.367
47 1,1,2-Trichloroethane	97	7.077	7.076	(1.250)	5864	0.50000	0.4830
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	10462	0.50000	0.4868
49 Tetrachloroethene	166	6.929	6.928	(0.898)	12818	0.50000	0.4917
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	6803	0.50000	0.4722
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	4976	0.50000	0.4614
52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	599619	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	30773	0.50000	0.4883
54 Ethyl Benzene	91	7.748	7.748	(1.004)	60108	0.50000	0.5027
55 1,1,1,2-Tetrachloroethane	131	7.777	7.776	(1.007)	9689	0.50000	0.5025
56 m,p-xylene	106	7.851	7.850	(1.017)	44338	1.00000	0.9839
58 o-Xylene	106	8.158	8.158	(1.057)	19970	0.50000	0.4889
59 Styrene	104	8.198	8.198	(1.062)	31228	0.50000	0.4859
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	57193	0.50000	0.4779
61 Bromoform	173	8.209	8.215	(0.873)	2912	0.50000	0.4155
62 1,1,1,2-Tetrachloroethane	83	8.733	8.733	(0.929)	5018	0.50000	0.4884
63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	253607	10.0000	10.425
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	1469	0.50000	0.4731 (Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.864	8.863	(0.942)	548	0.50000	0.2882 (QM)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
-----	====	==	=====	=====	=====	=====	=====
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	64456	0.50000	0.4717
67 Bromobenzene	156	8.659	8.664	(0.921)	10400	0.50000	0.4539
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	43704	0.50000	0.4944
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	41147	0.50000	0.4794
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	35125	0.50000	0.4725
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	37985	0.50000	0.5084
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	41750	0.50000	0.4990
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	56862	0.50000	0.5177
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	43281	0.50000	0.5168
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.995)	18879	0.50000	0.4912
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	226696	10.0000	
77 1,4-Dichlorobenzene	146	9.416	9.421	(1.001)	18366	0.50000	0.5008 (Q)
78 N-Butyl Benzene	91	9.620	9.620	(1.023)	35641	0.50000	0.4979
; 79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.035)	182915	10.0000	10.375
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	14652	0.50000	0.5068
81 1,2-Dibromo 3-Chloropropane	75	10.360	10.355	(1.102)	360	0.50000	0.3927
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	6233	0.50000	0.4423
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	4820	0.50000	0.5746
84 Naphthalene	128	11.140	11.140	(1.185)	9978	0.50000	0.5210
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	4907	0.50000	0.5136

QC Flag Legend

- Γ - Target compound detected outside RT window.
- Q - Qualifier signal failed the ratio test.
- ! - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 0050222.d
 Lab Smp Id: IC005
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 22-FEB-2010
 Calibration Time: 17:11
 Client Smp ID: vstd2
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

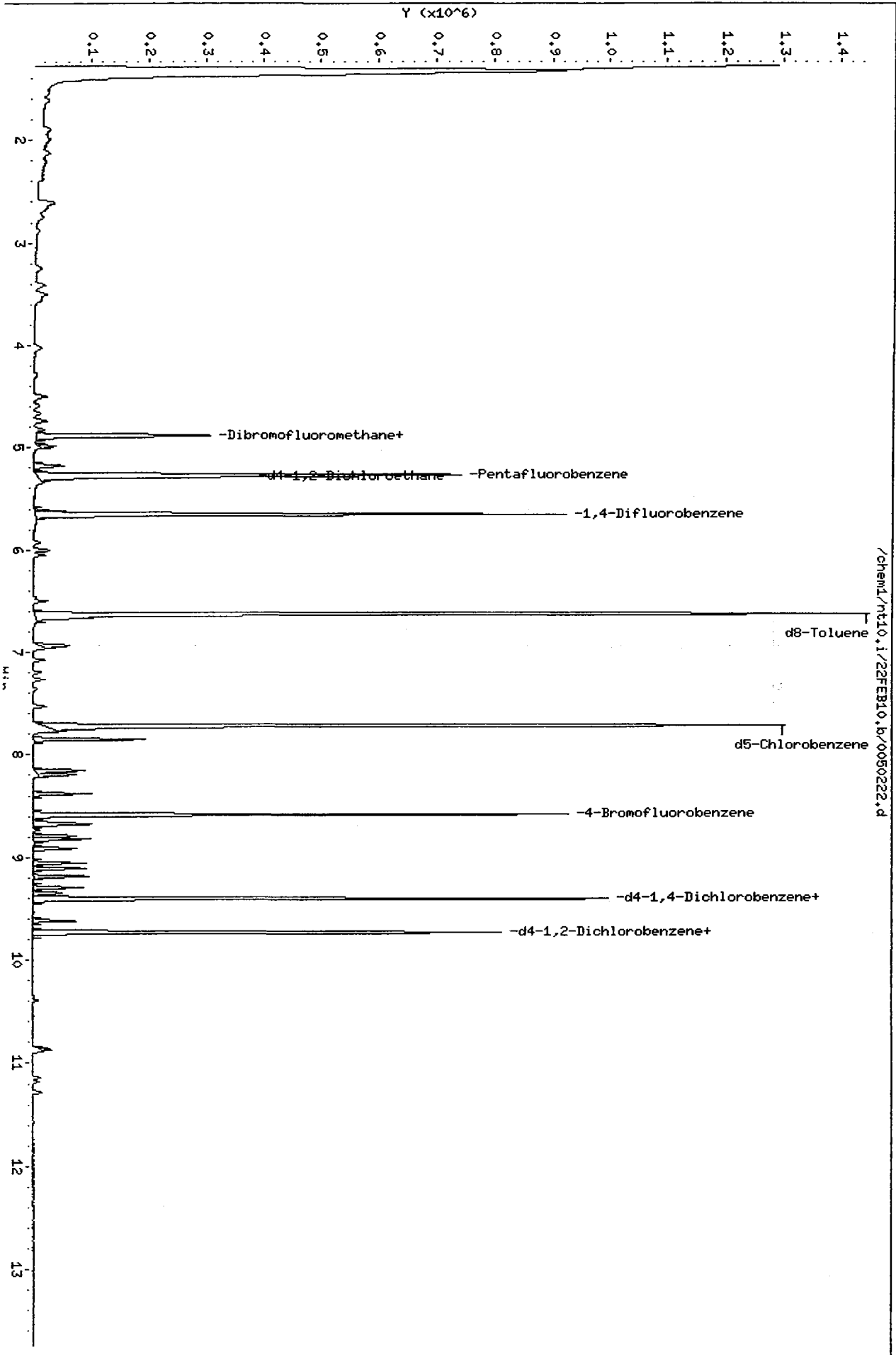
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	407710	-10.63
35 1,4-Difluorobenze	740651	370326	1481302	651788	-12.00
52 d5-Chlorobenzene	686240	343120	1372480	599619	-12.62
76 d4-1,4-Dichlorobe	249963	124982	499926	226696	-9.31

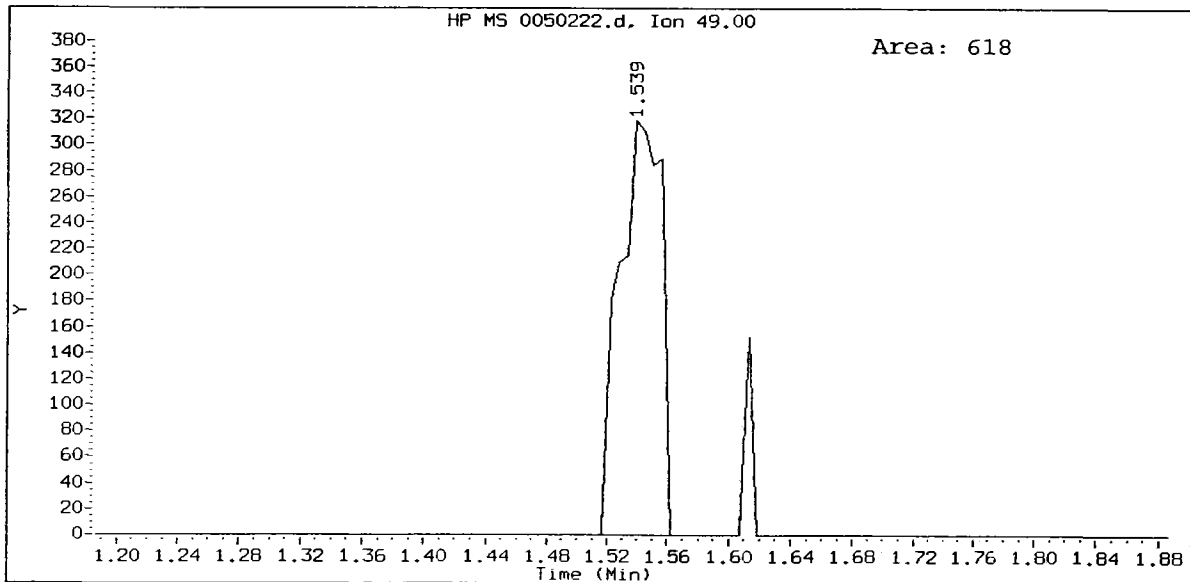
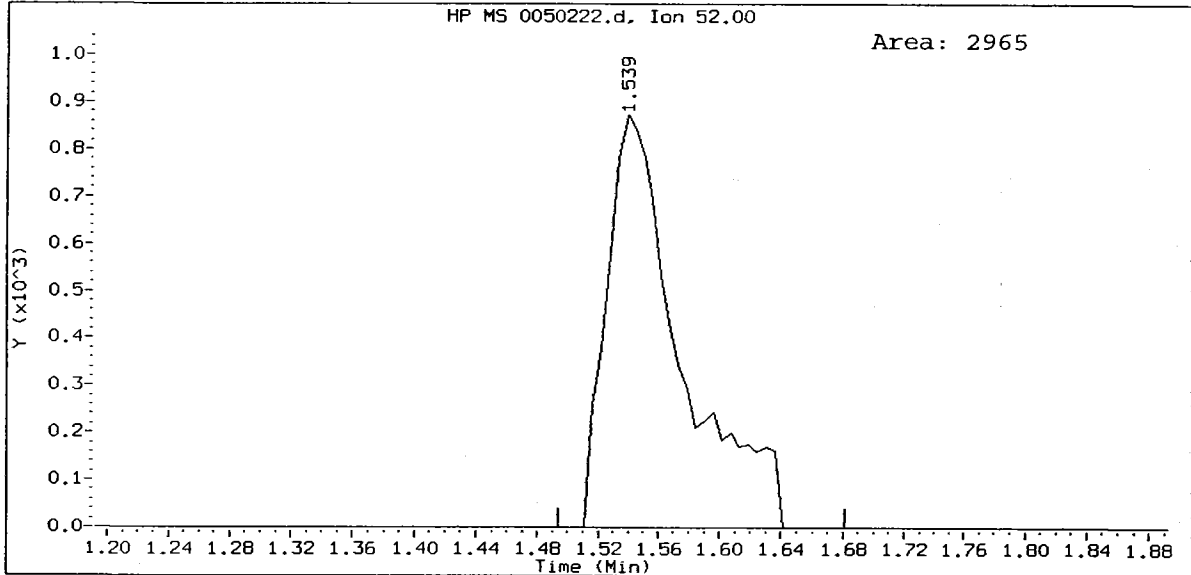
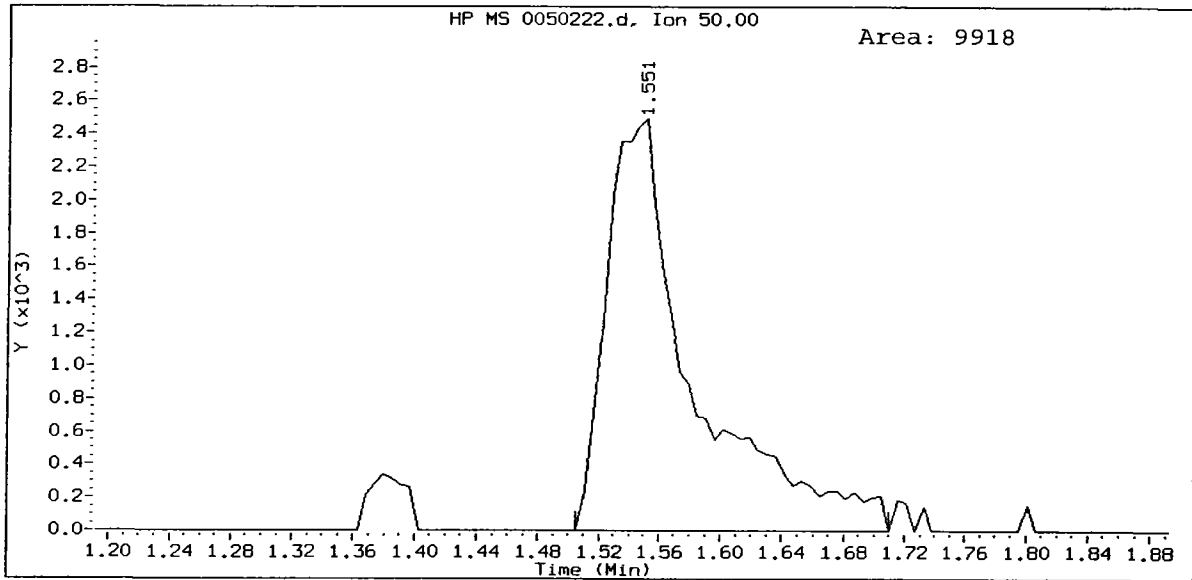
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.40	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

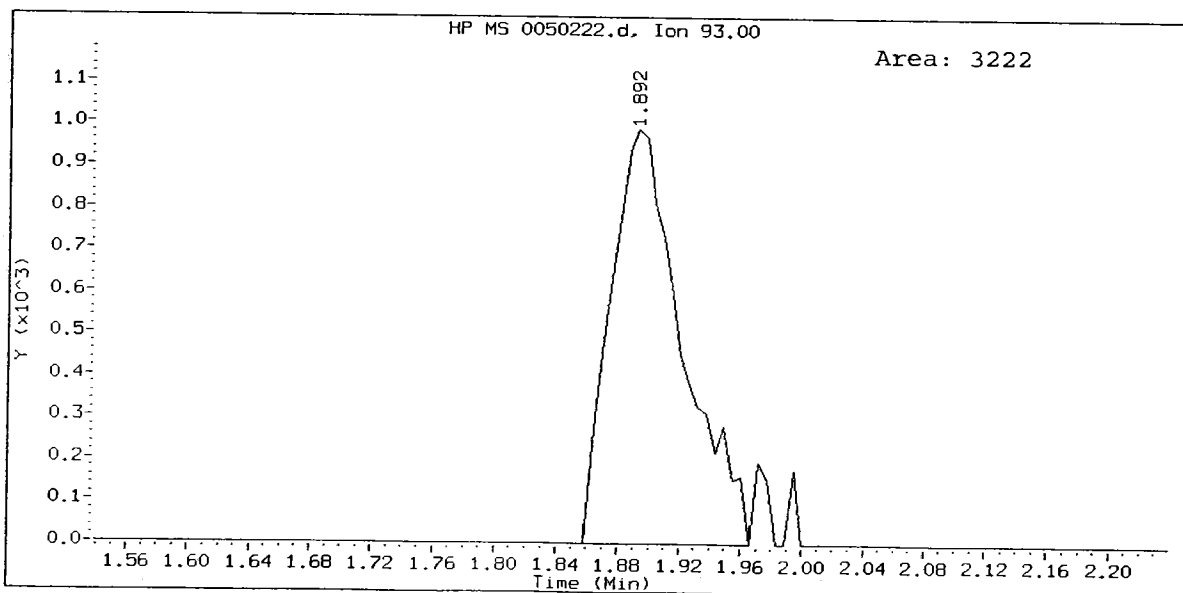
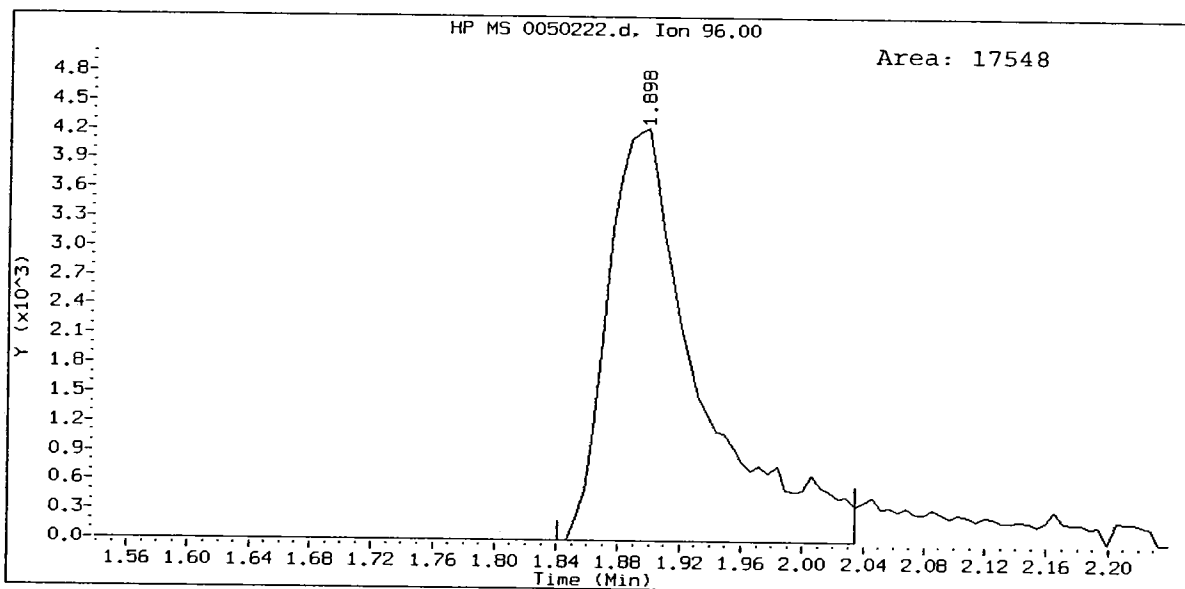
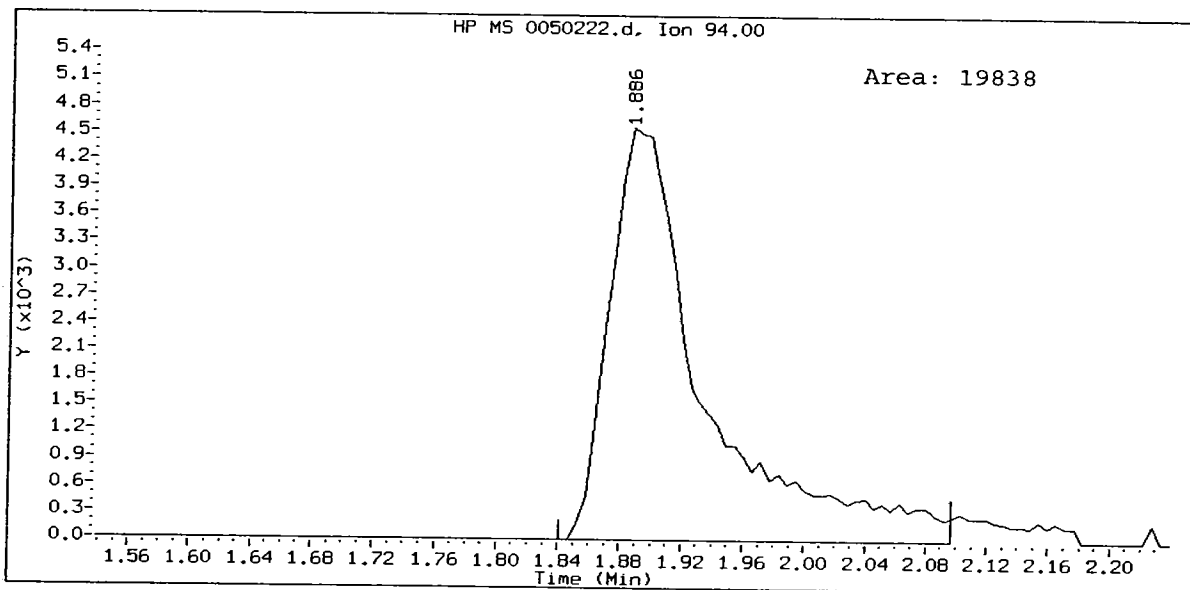
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Date: 22-FEB-2010 18:41
Client ID: vstd2
Sample Info: IC005,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



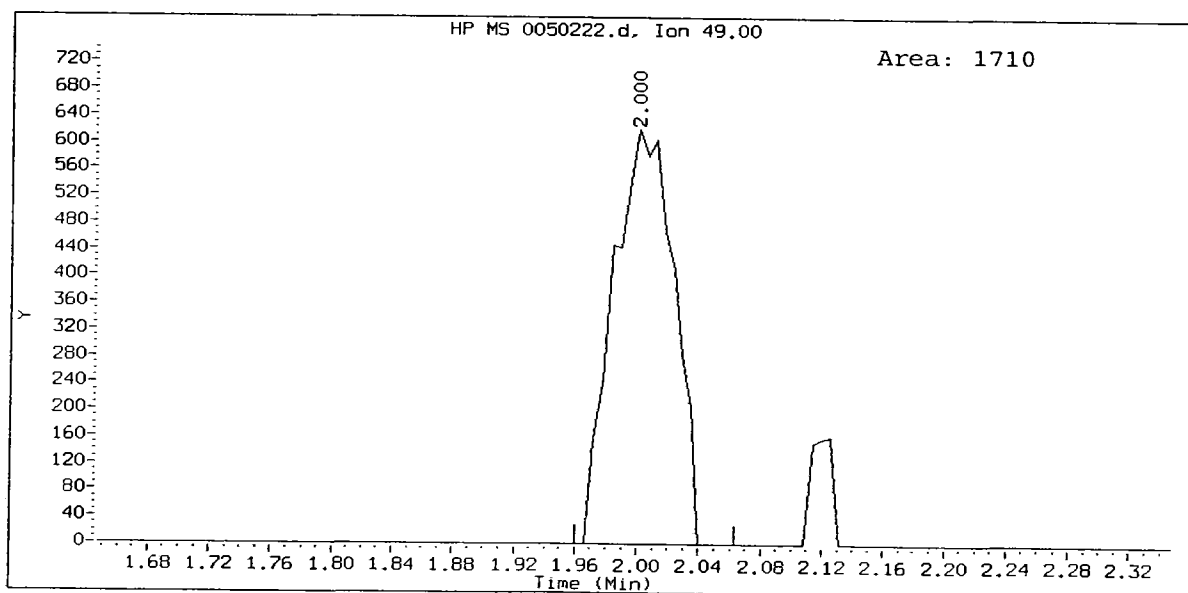
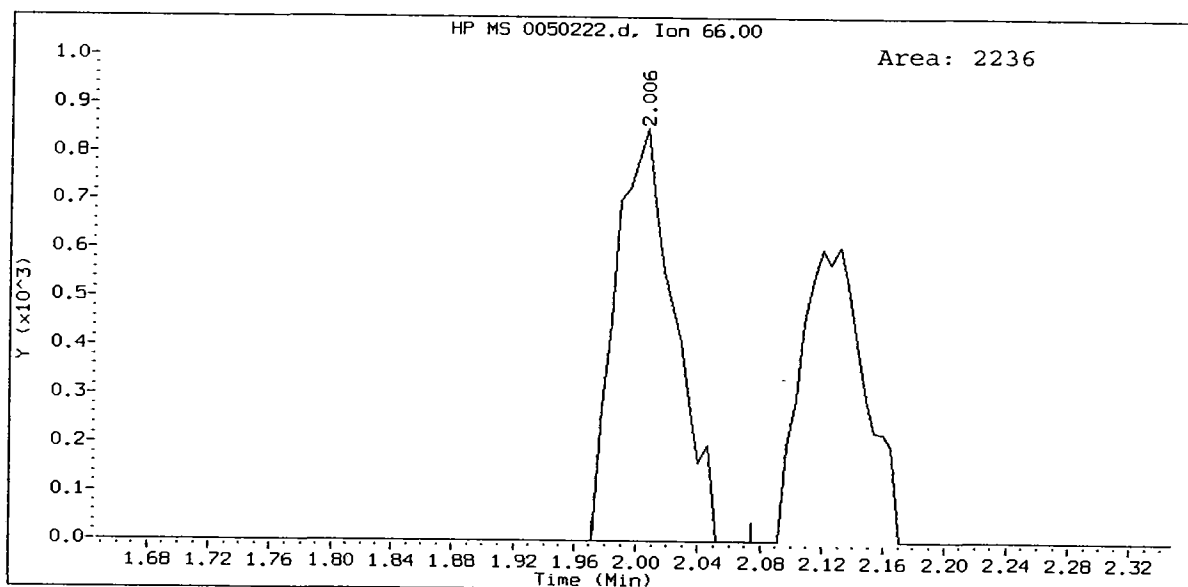
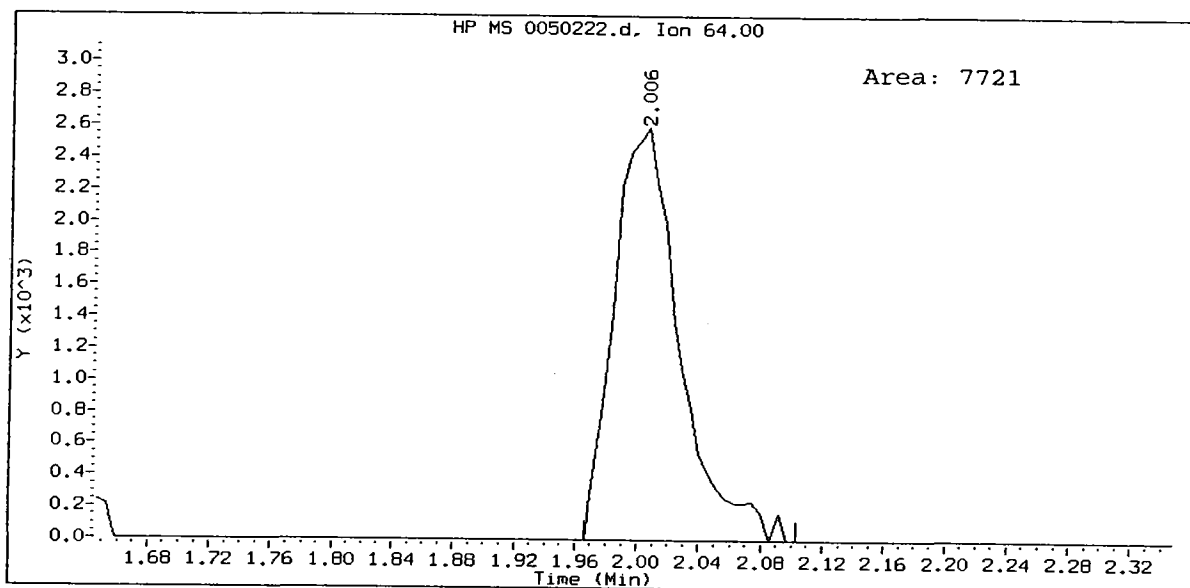


IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Bromomethane Amount: 1.26

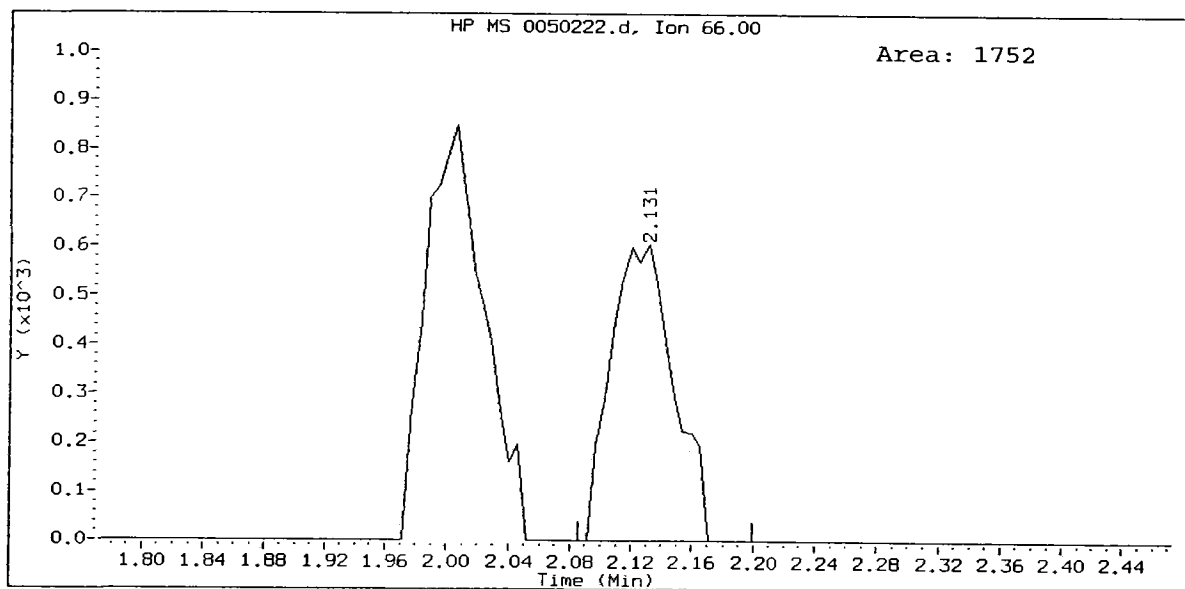
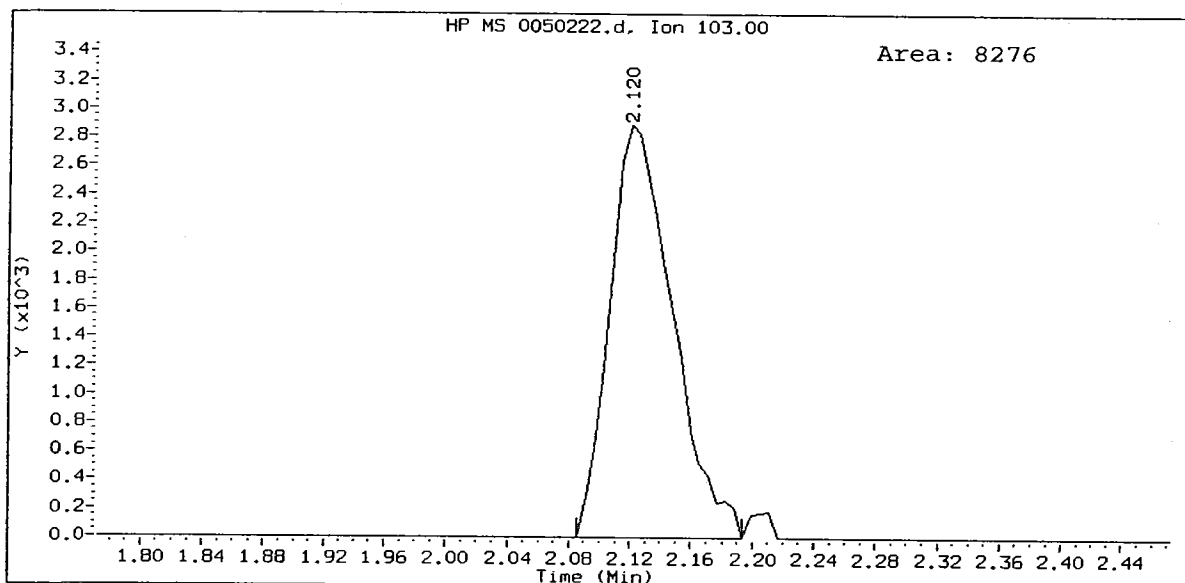
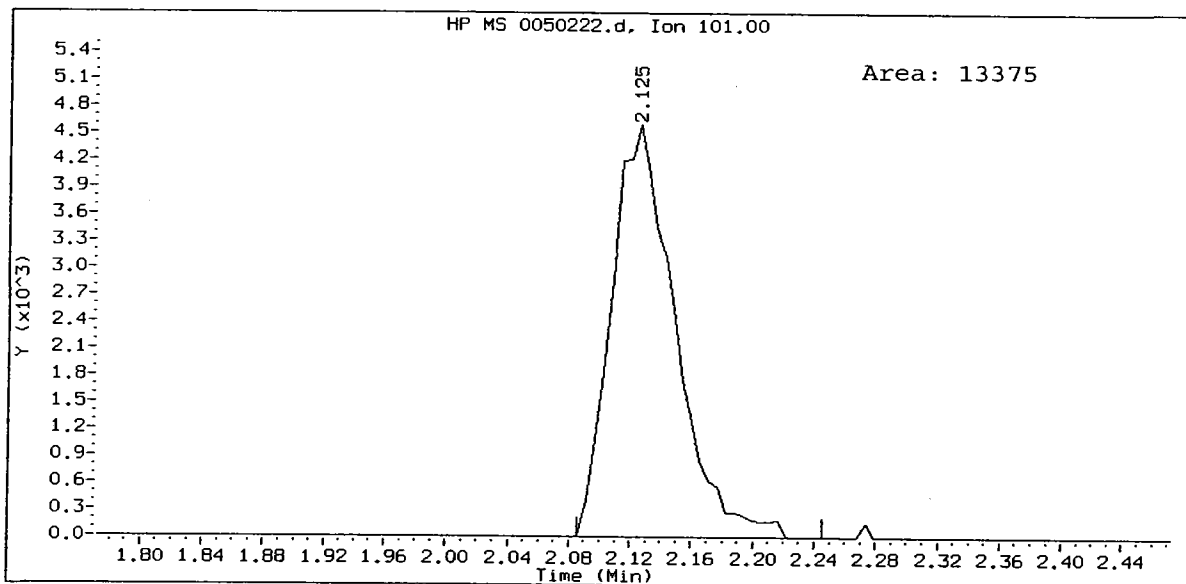


QL34: 00320

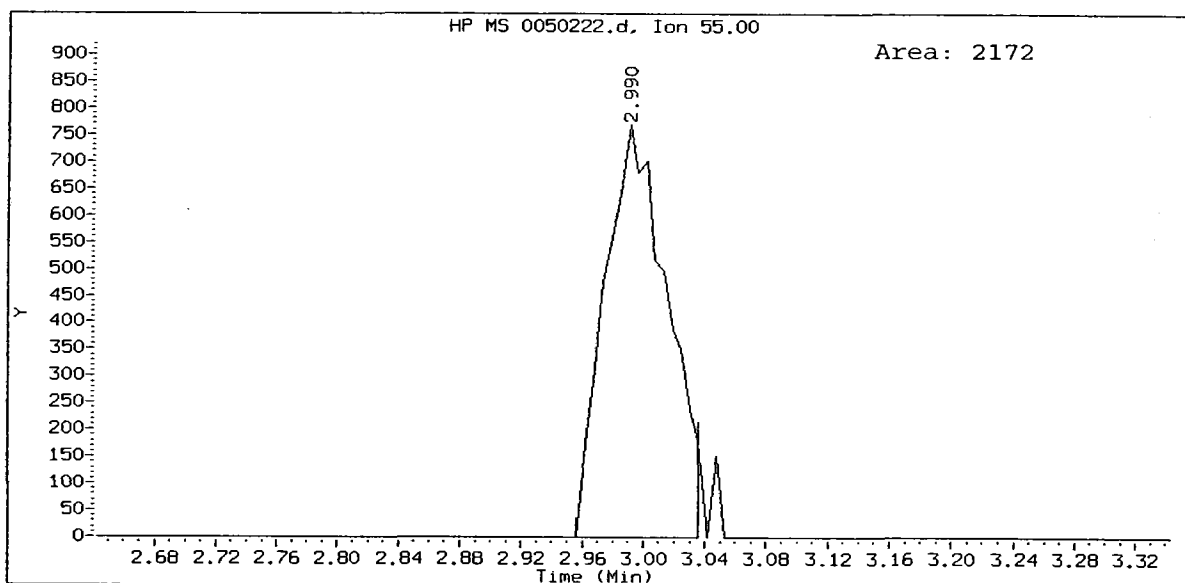
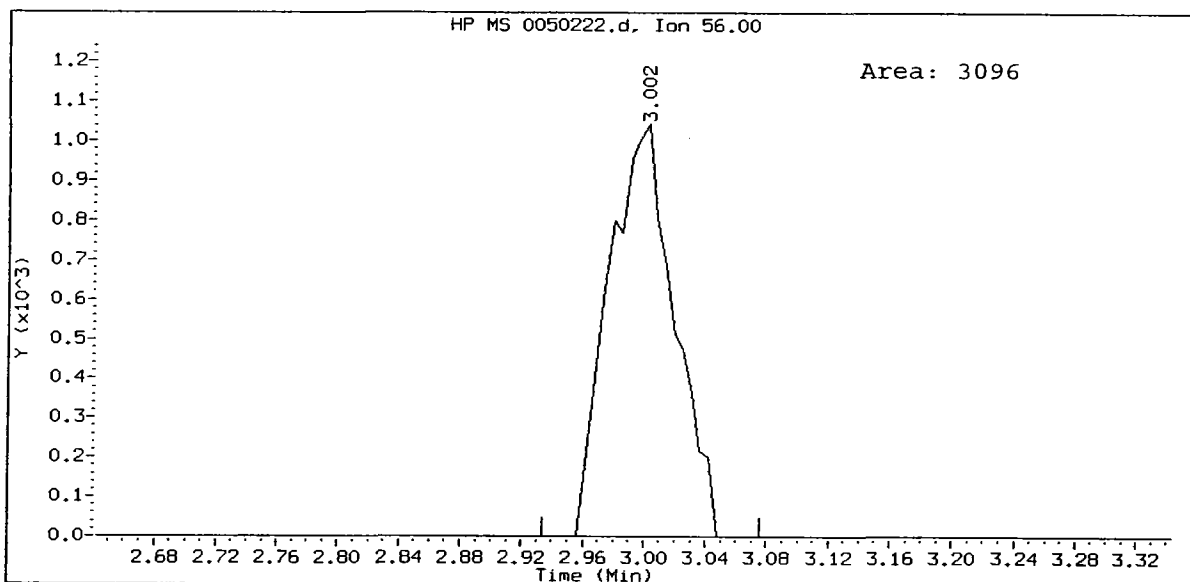
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Chloroethane Amount: 0.54



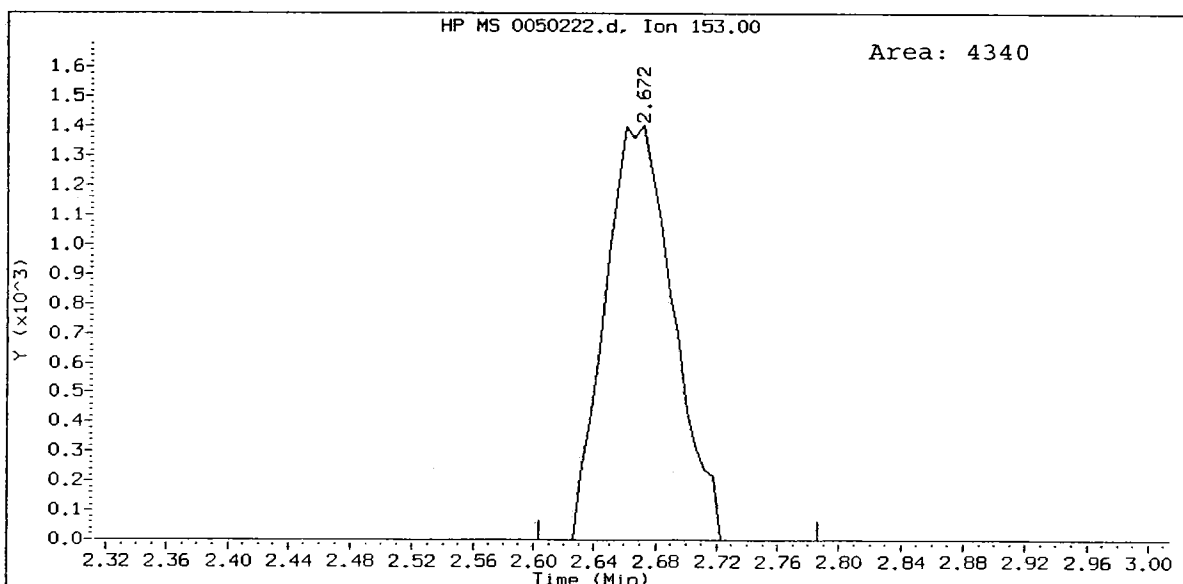
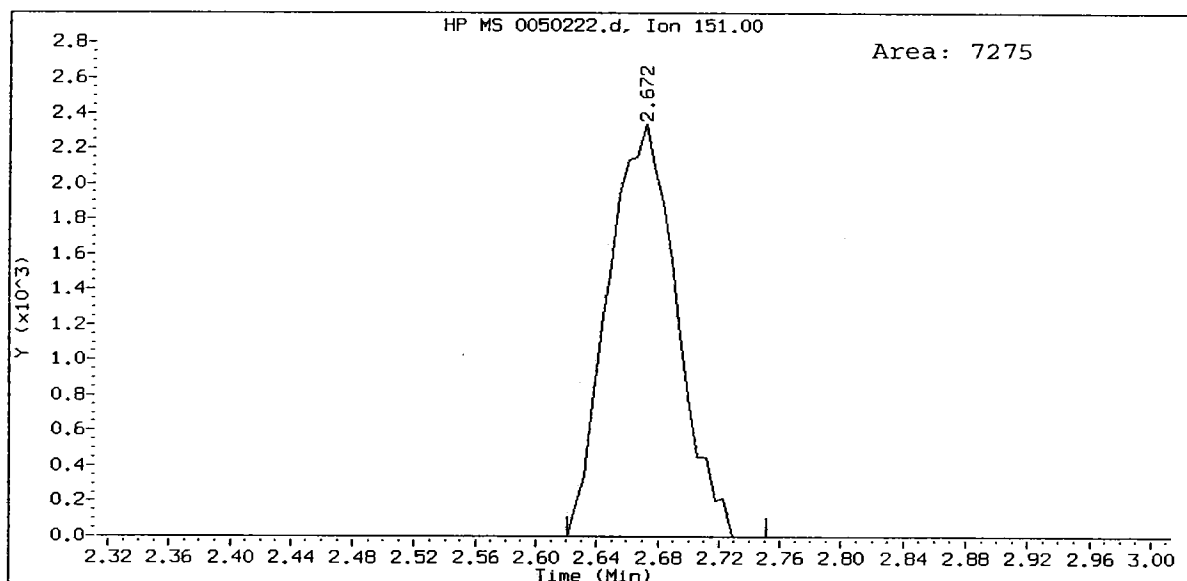
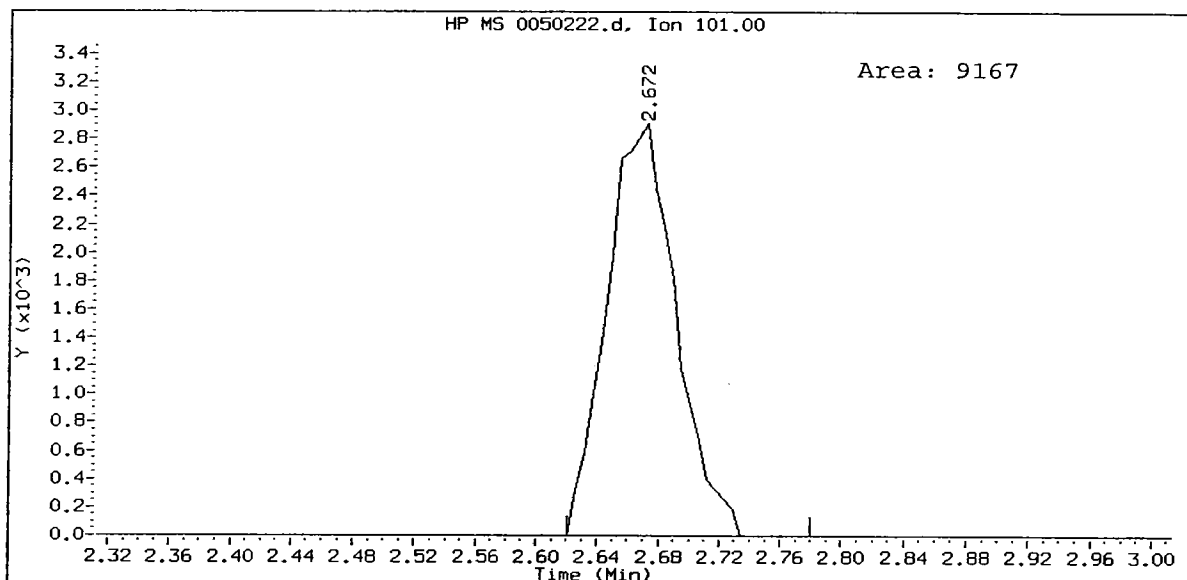
QL34 : 00321



Acrolein Amount: 2.64

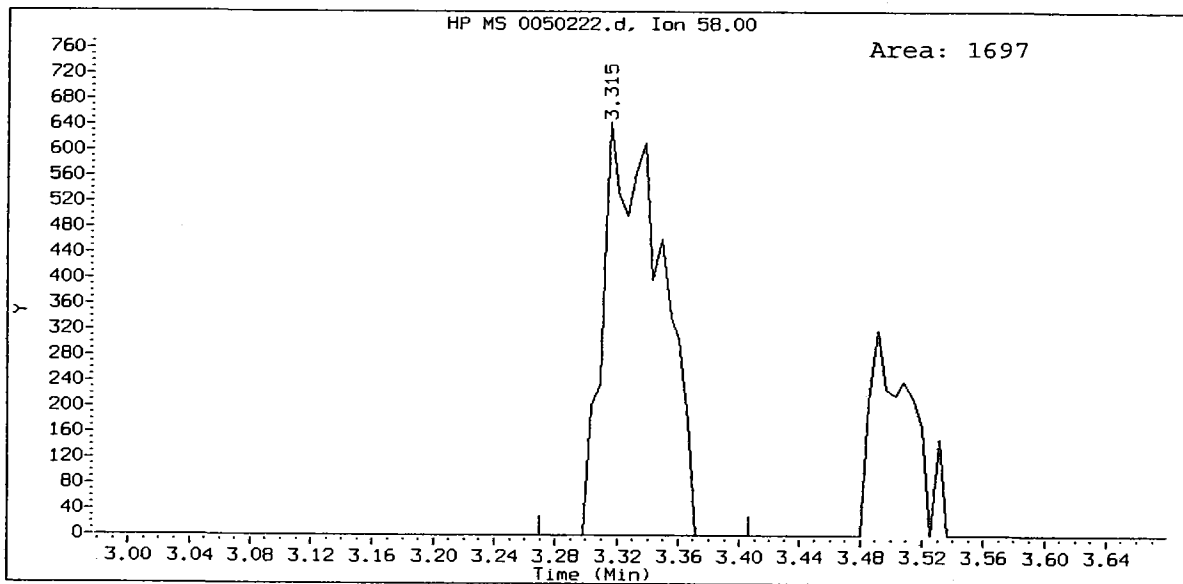
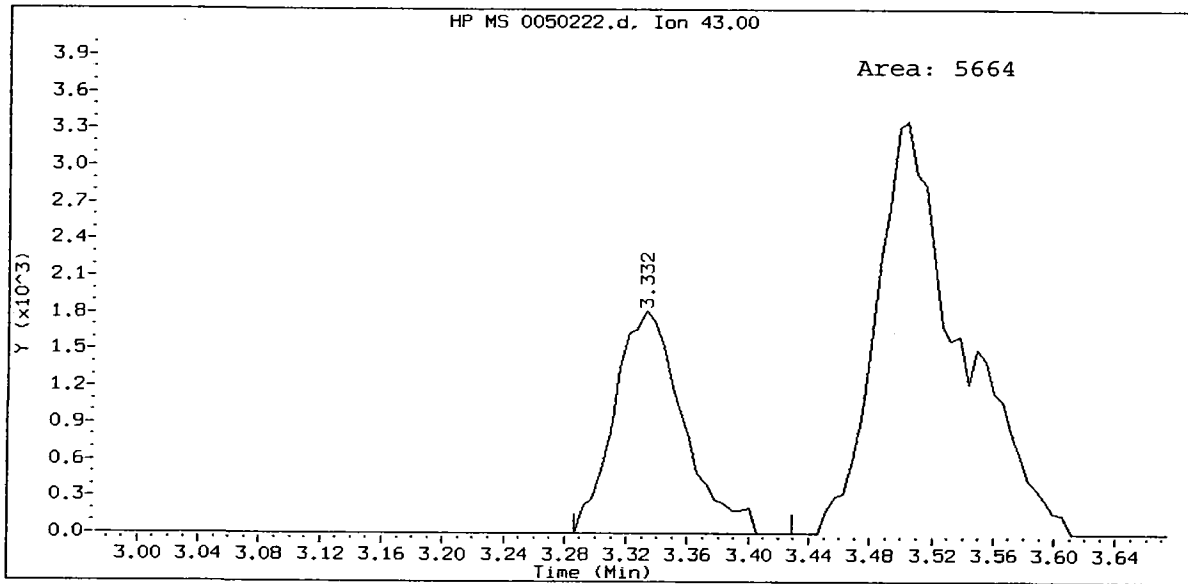


IC005, /chem1/nt10.i/22FEB10.b/0050222.d
112Trichlorol22Trifluoroethane Amount: 0.54

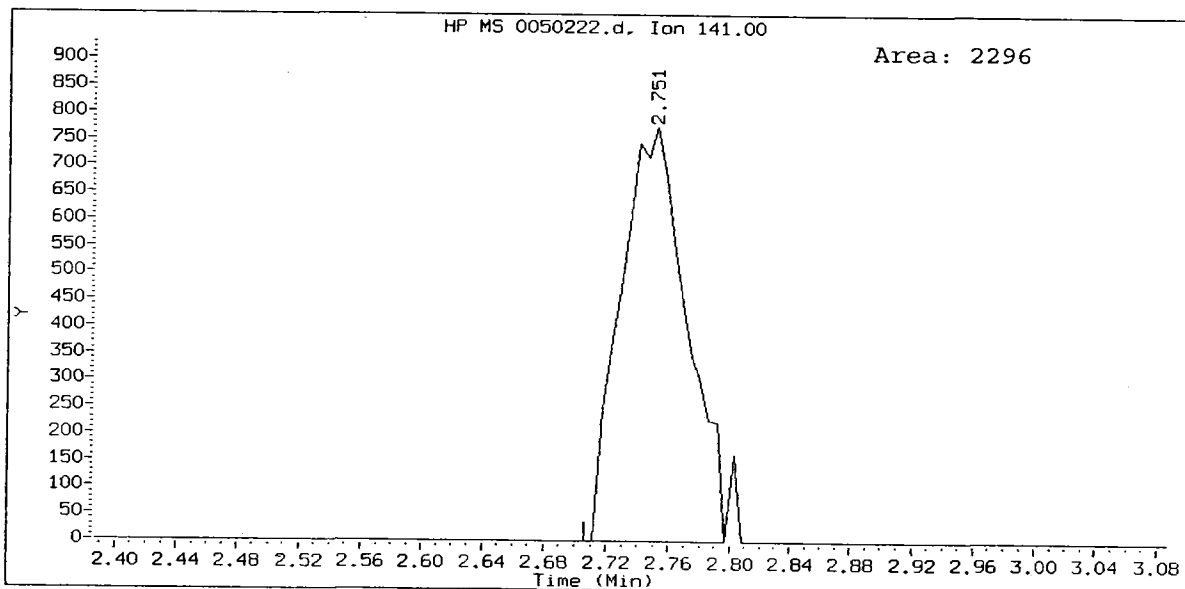
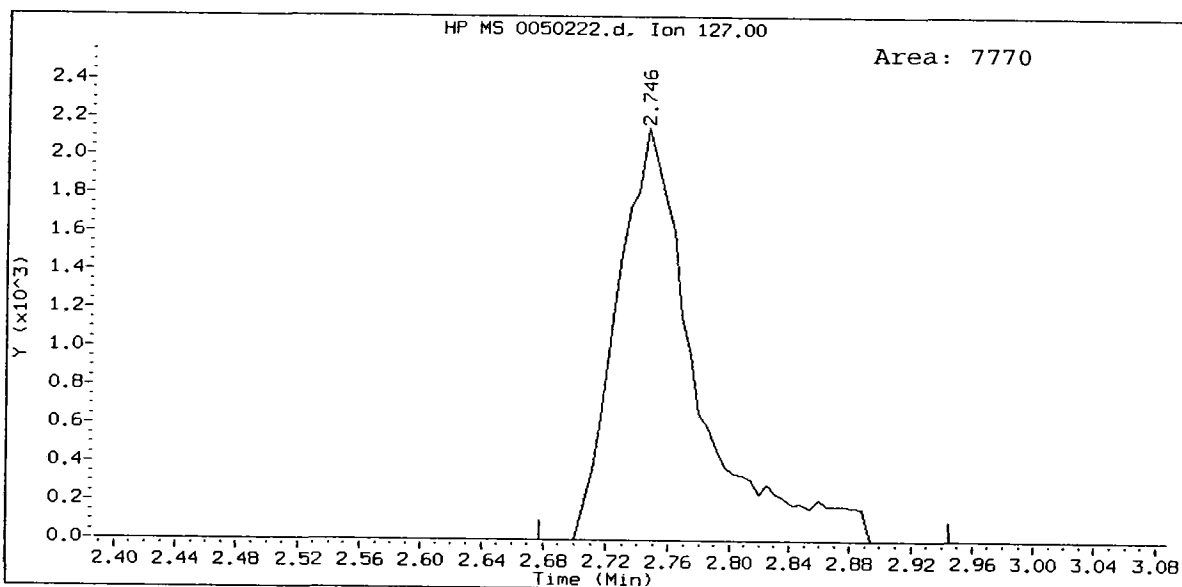
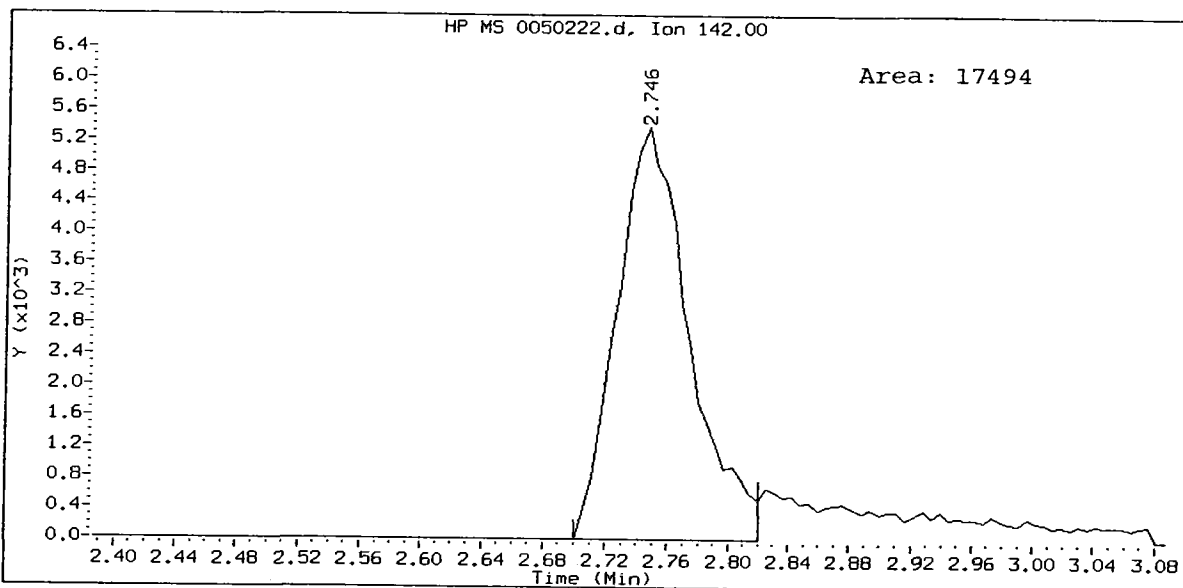


0134 : 00024

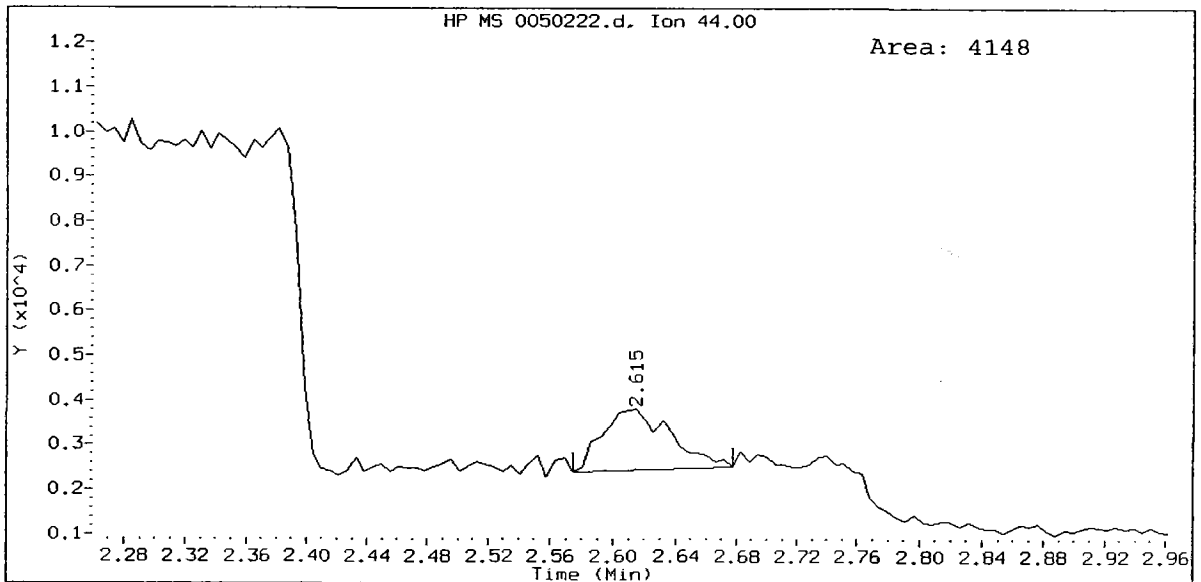
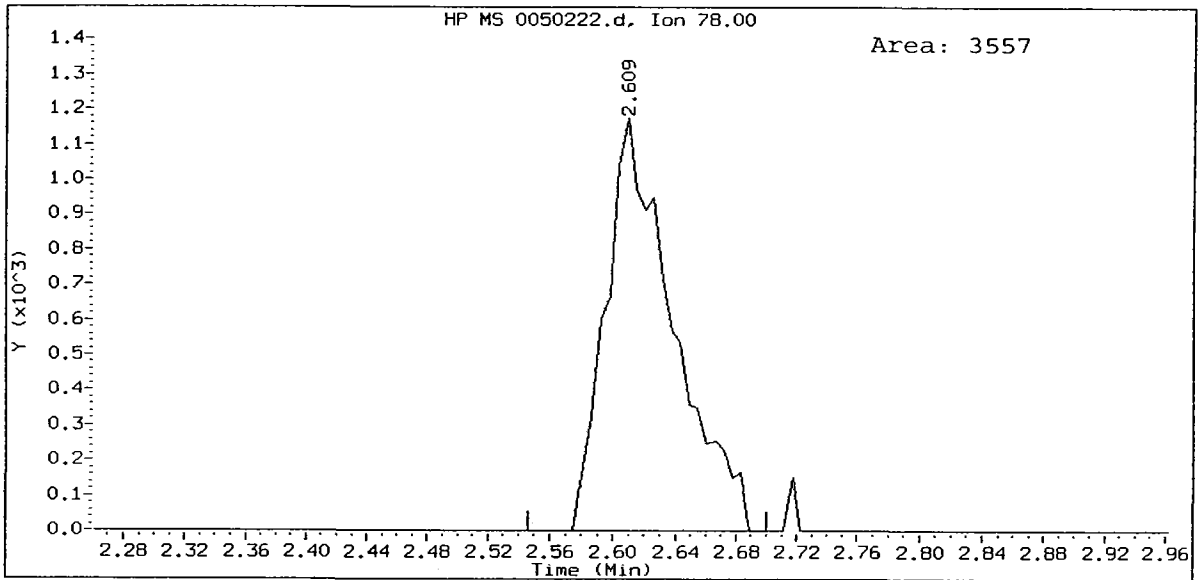
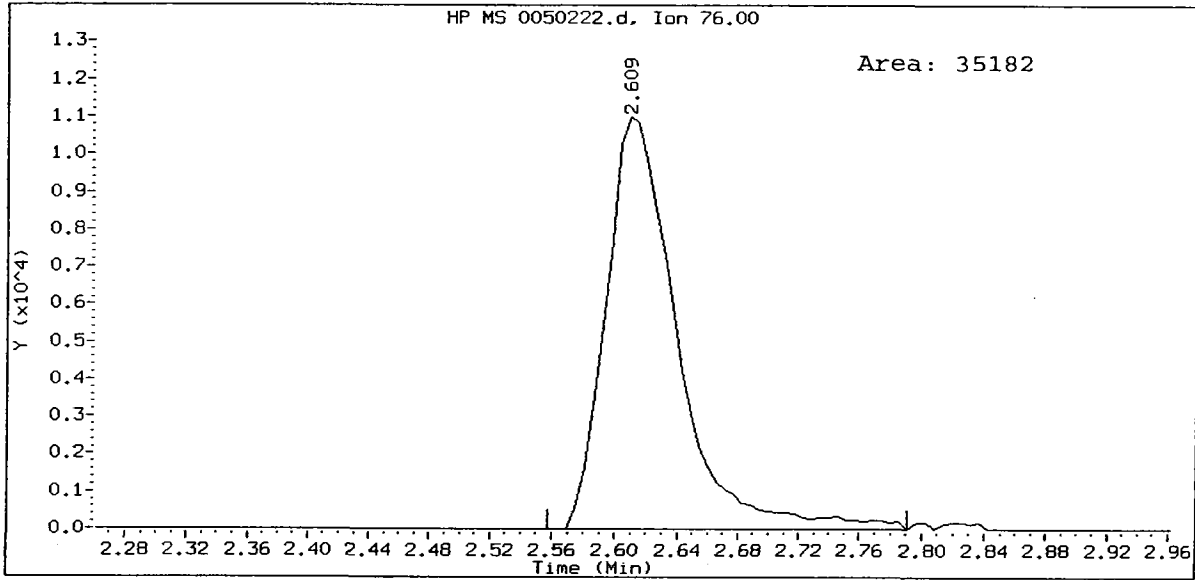
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Acetone Amount: 3.02



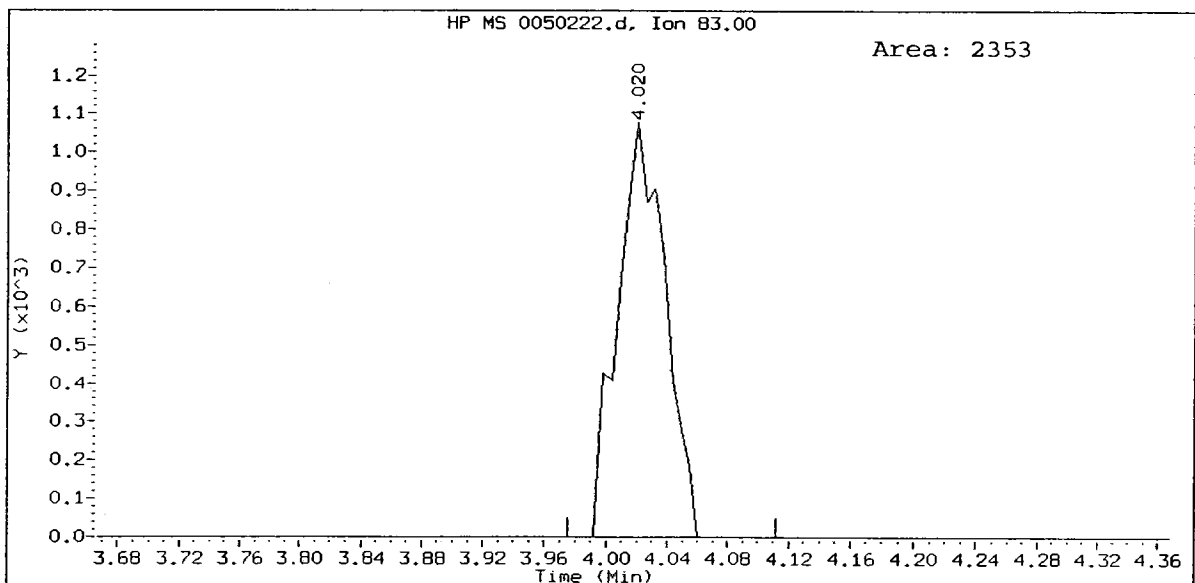
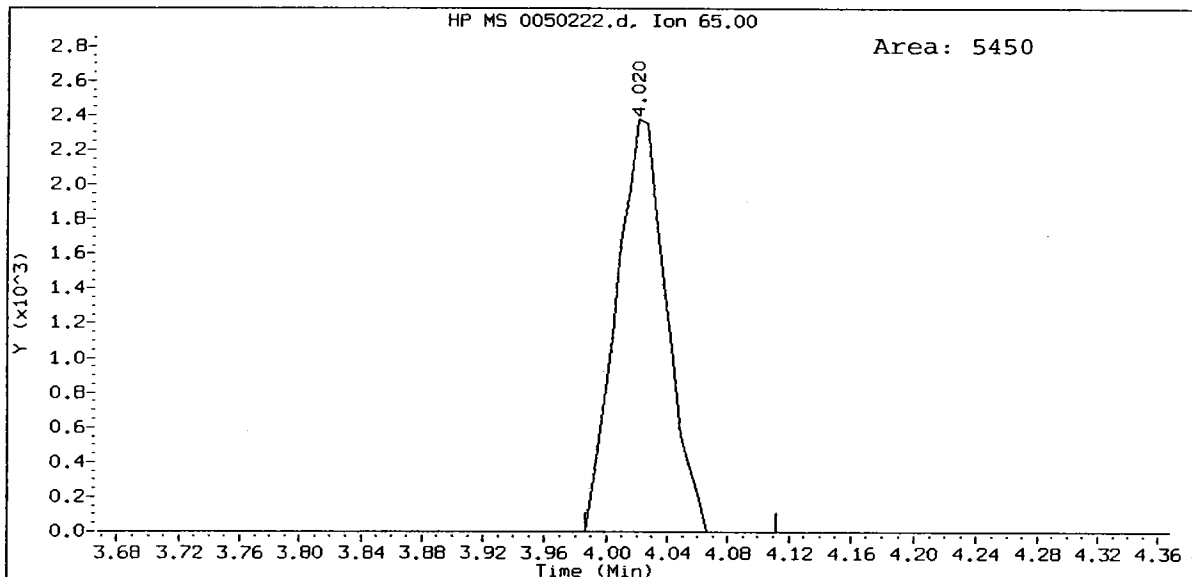
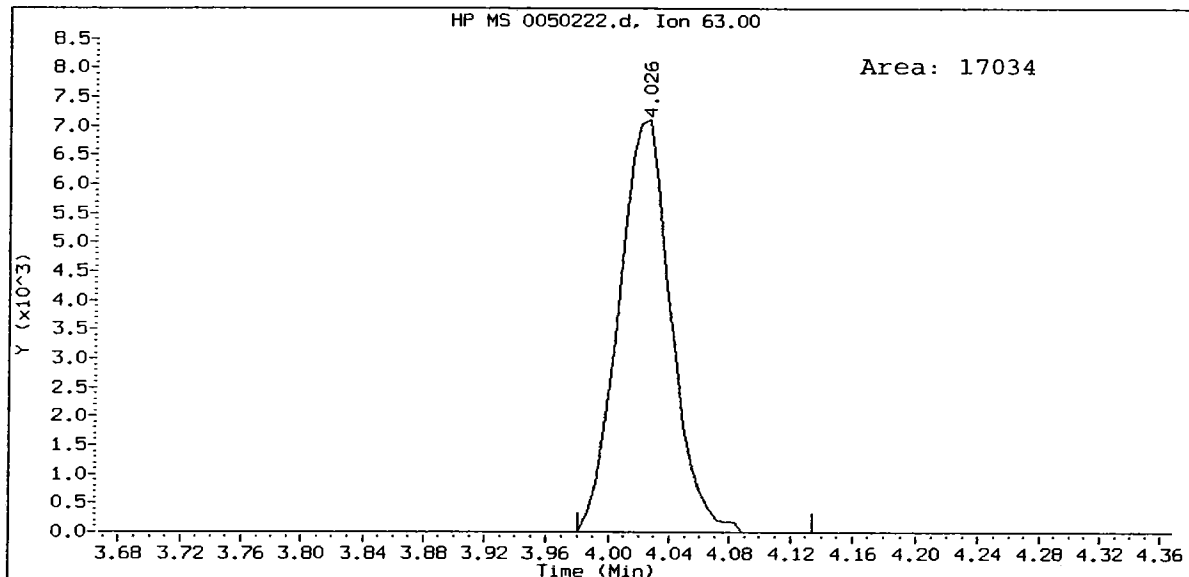
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Iodomethane Amount: 0.64

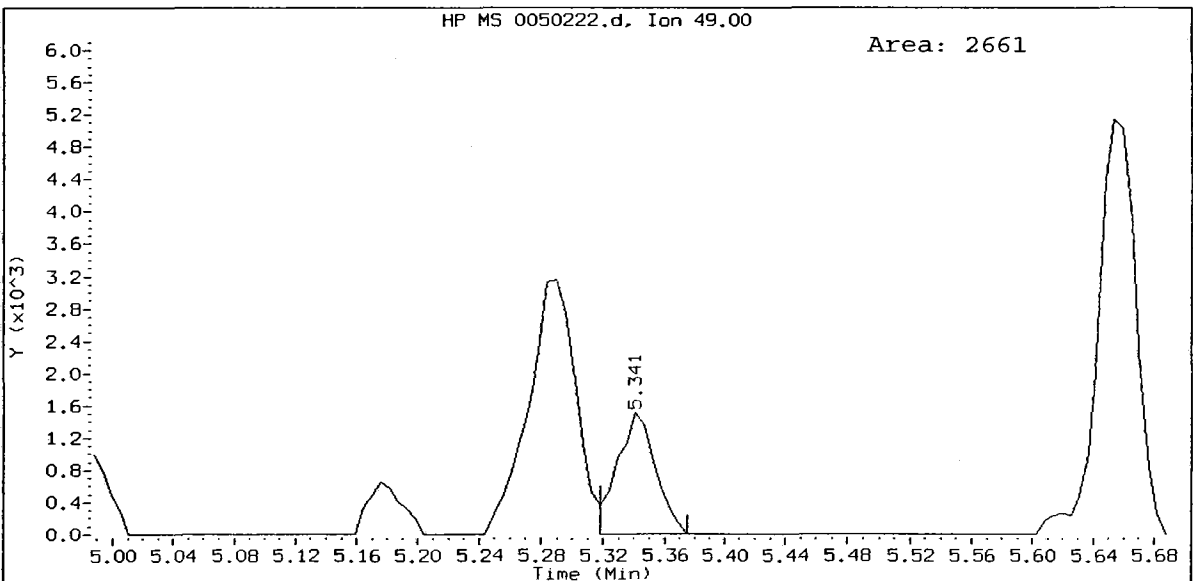
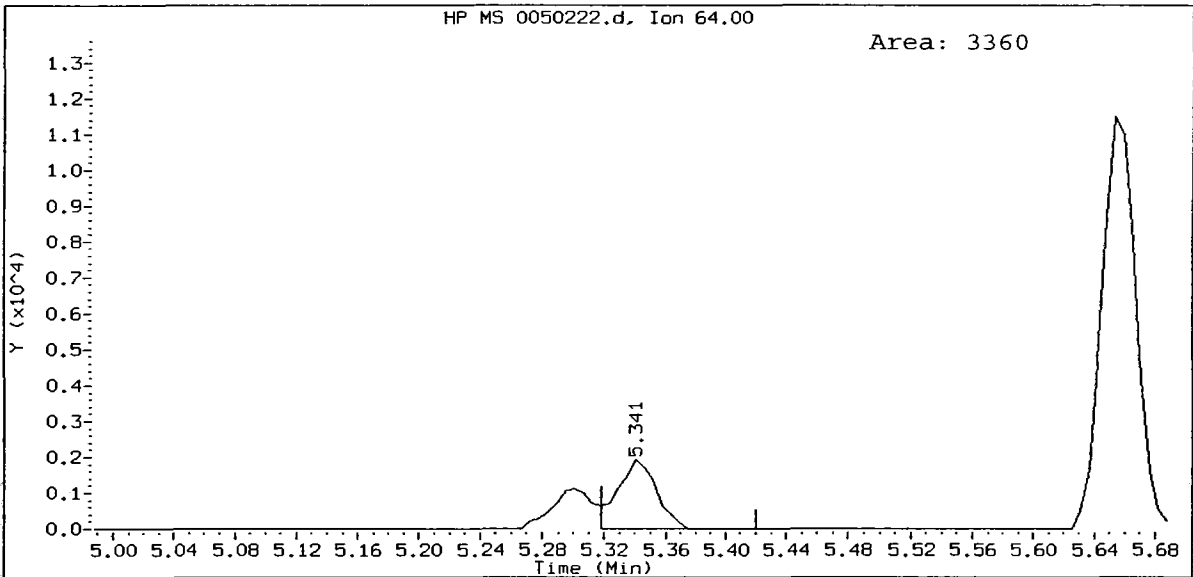
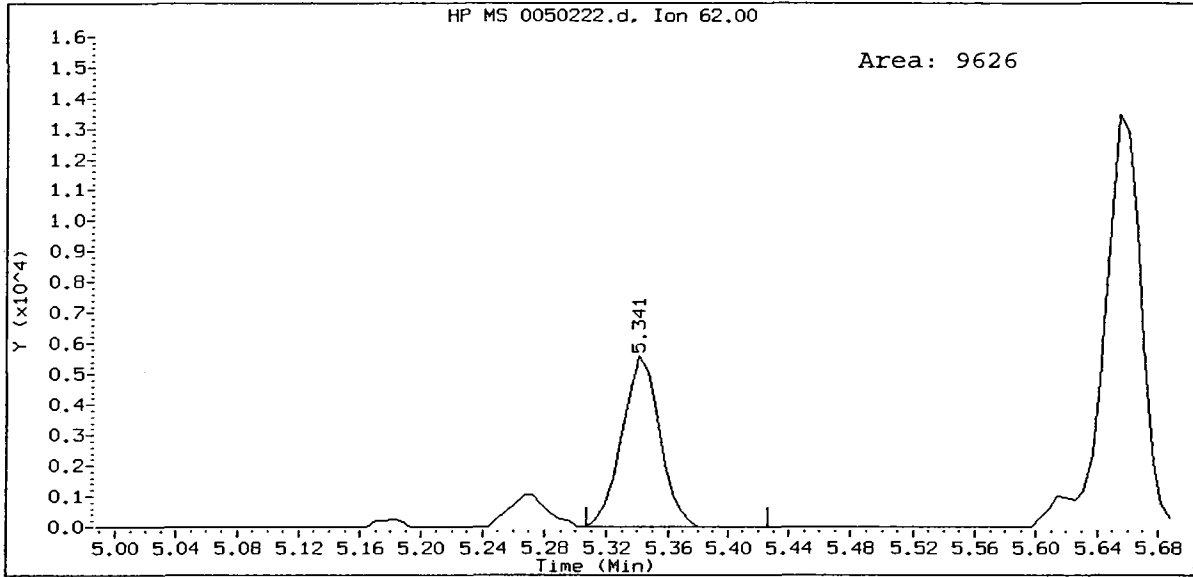


IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Carbon Disulfide Amount: 0.53

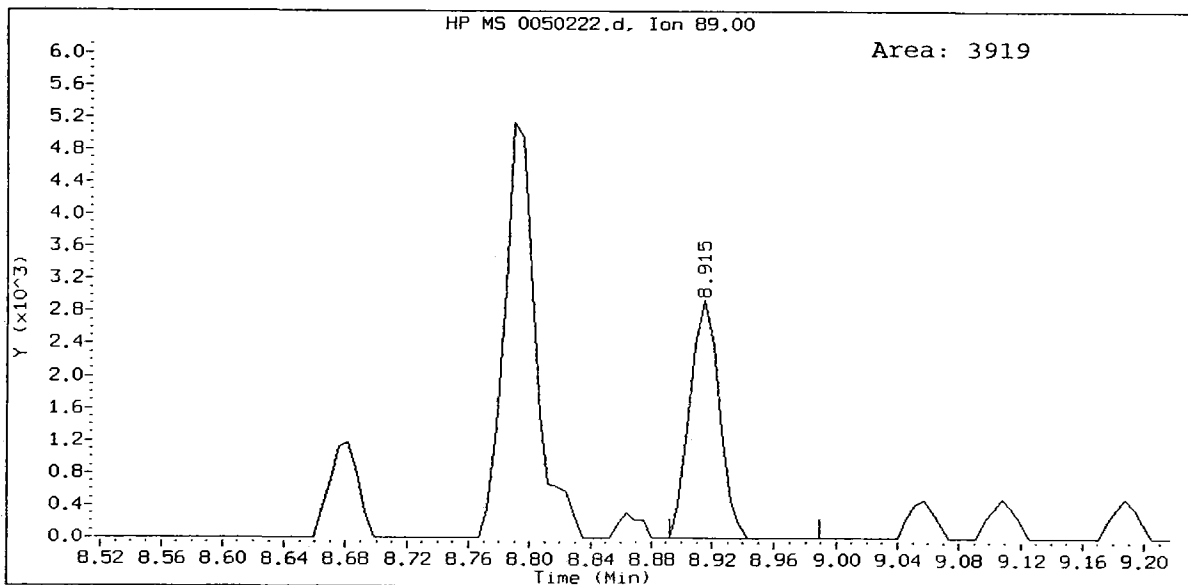
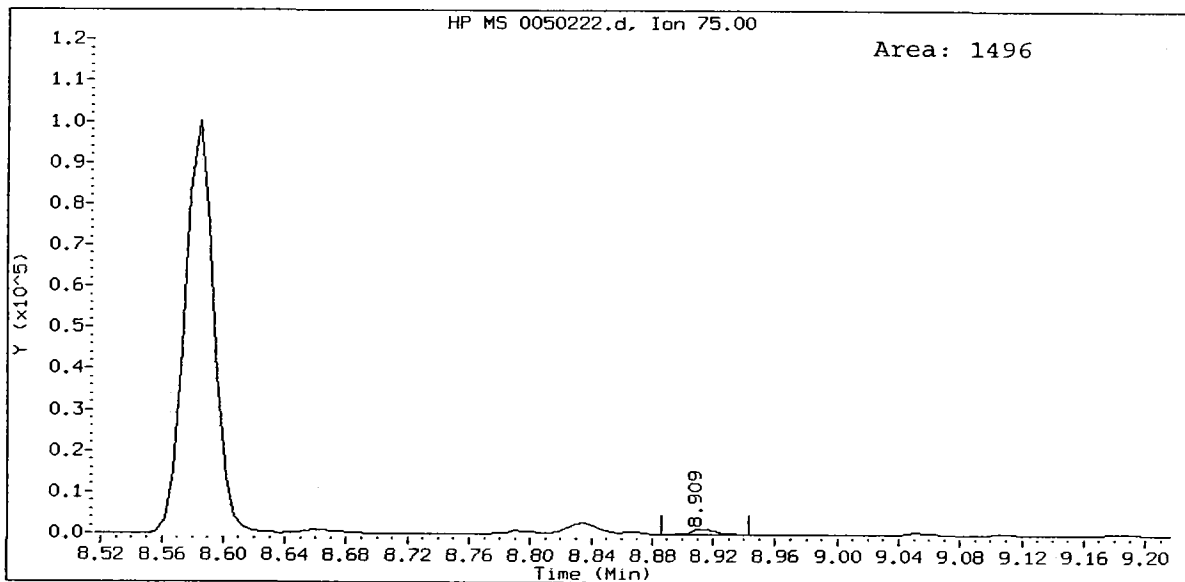
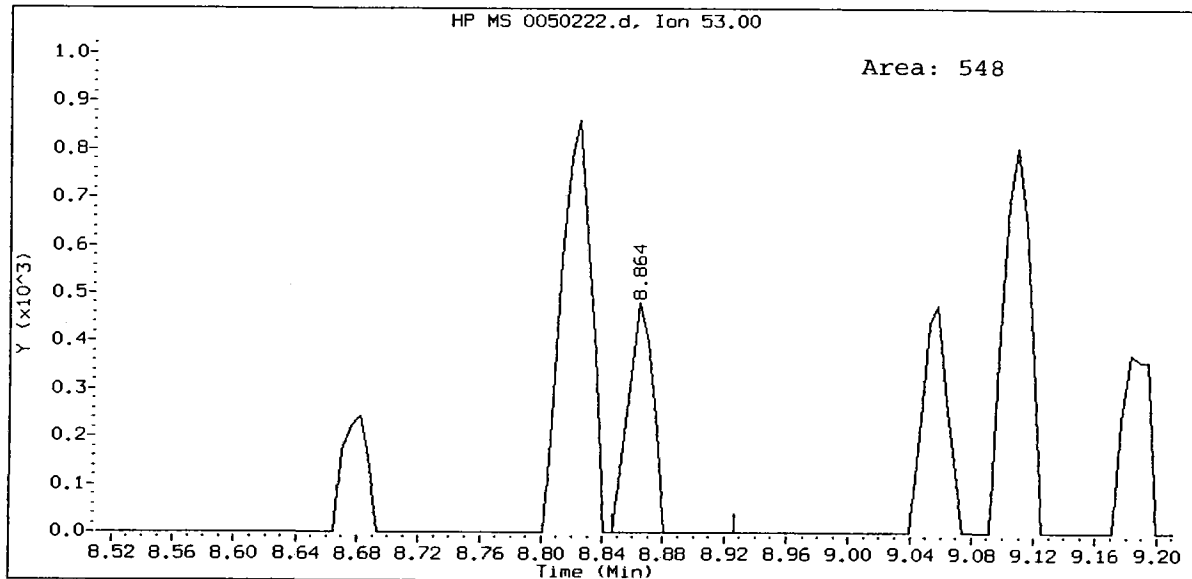


IC005, /chem1/nt10.i/22FEB10.b/0050222.d
1,1-Dichloroethane Amount: 0.49

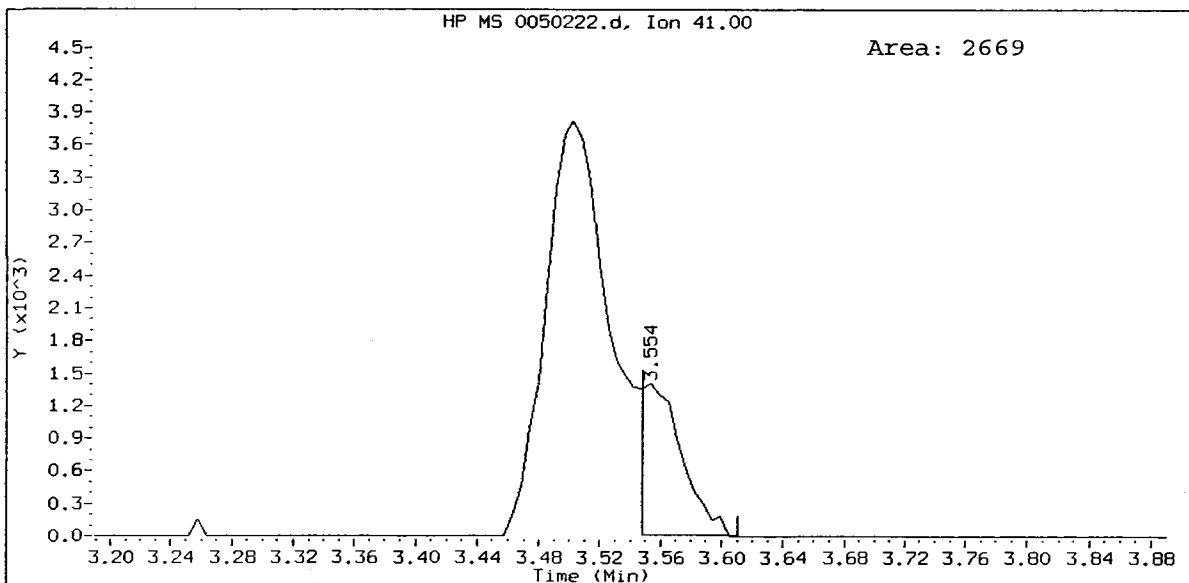
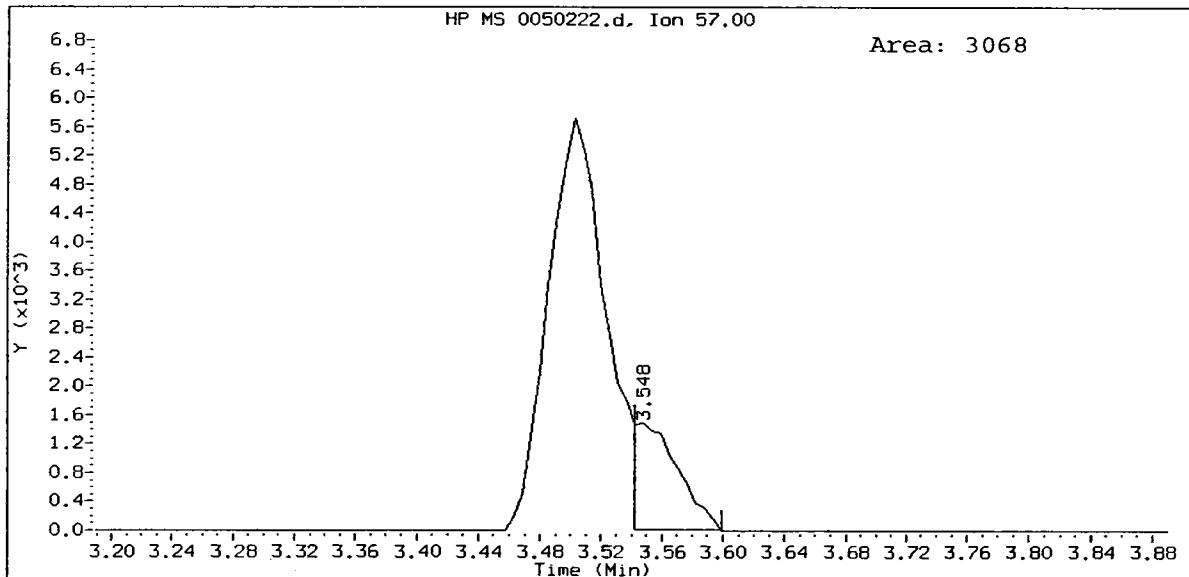
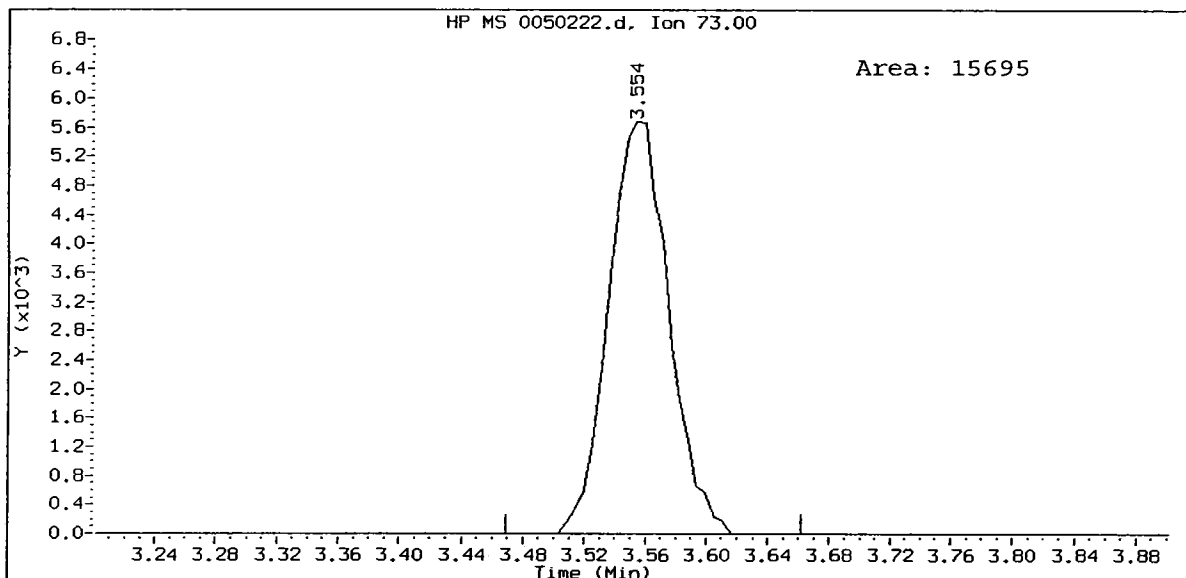




IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Trans-1,4-Dichloro 2-Butene Amount: 0.29



IC005, /chem1/nt10.i/22FEB10.b/0050222.d
Methyl tert butyl ether Amount: 0.53



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0100222.d
 Lab Smp Id: IC010 Client Smp ID: vstd3
 Inj Date : 22-FEB-2010 18:11
 Operator : ar Inst ID: nt10.i
 Smp Info : IC010,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
1 Dichlorodifluoromethane	85	1.379	1.385	(0.262)	9479	1.00000	0.8722 (M)
2 Chloromethane	50	1.539	1.545	(0.292)	17629	1.00000	1.084 (M)
3 Vinyl Chloride	62	1.601	1.613	(0.304)	18004	1.00000	0.9314 (M)
4 Bromomethane	94	1.886	1.892	(0.358)	28908	1.00000	1.734 (M)
5 Chloroethane	64	1.994	2.000	(0.379)	14086	1.00000	0.9280 (M)
6 Trichlorofluoromethane	101	2.119	2.125	(0.402)	25458	1.00000	0.9370 (M)
8 Acrolein	56	2.990	2.996	(0.568)	5916	5.00000	4.742
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.660	2.666	(0.505)	16502	1.00000	0.9102 (M)
10 Acetone	43	3.326	3.326	(0.631)	10427	5.00000	5.222
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	19620	1.00000	0.9098 (M)
12 Bromoethane	108	2.870	2.882	(0.545)	12568	1.00000	0.9550
13 Iodomethane	142	2.739	2.740	(0.520)	32042	1.00000	1.099 (M)
14 Methylene Chloride	84	3.240	3.252	(0.615)	16912	1.00000	0.9415
15 Acrylonitrile	53	4.083	4.089	(0.775)	2341	1.00000	0.9206 (T)
16 Methyl tert butyl ether	73	3.548	3.554	(0.674)	31142	1.00000	0.9821 (M)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
17 Carbon Disulfide	76	2.609	2.615	(0.495)	60330	1.00000	0.8544
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.648)	21268	1.00000	0.9386
20 Vinyl Acetate	43	4.282	4.282	(0.813)	19702	1.00000	0.9826 (M)
21 1,1-Dichloroethane	63	4.014	4.020	(0.762)	34086	1.00000	0.9233
22 2-Butanone	72	4.993	4.994	(0.948)	5930	5.00000	4.618
23 2,2-Dichloropropane	77	4.583	4.584	(0.870)	14085	1.00000	0.9589
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.854)	23827	1.00000	0.9425
25 Pentafluorobenzene	168	5.266	5.272	(1.000)	433328	10.0000	
26 Chloroform	83	4.731	4.737	(0.898)	38300	1.00000	0.9738
27 Bromochloromethane	128	4.657	4.663	(0.884)	8115	1.00000	0.9450
28 Dibromofluoromethane	111	4.879	4.880	(0.926)	177182	10.0000	9.804
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.928)	29129	1.00000	0.9522
30 1,1-Dichloropropene	75	4.982	4.982	(0.881)	33823	1.00000	0.9729
31 Carbon Tetrachloride	117	4.822	4.823	(0.853)	24639	1.00000	0.9688
32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.004)	156257	10.0000	9.832
33 1,2-Dichloroethane	62	5.340	5.341	(0.945)	21138	1.00000	1.001
34 Benzene	78	5.175	5.181	(0.915)	96110	1.00000	0.9786
35 1,4-Difluorobenzene	114	5.653	5.659	(1.000)	700220	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.994)	24655	1.00000	0.9369
37 1,2-Dichloropropane	63	6.000	6.007	(1.061)	20441	1.00000	0.9614
38 Bromodichloromethane	83	6.052	6.052	(1.070)	25318	1.00000	0.9416
39 Dibromomethane	93	5.926	5.927	(1.048)	8094	1.00000	0.9526
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.144)	4966	1.00000	0.9839
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.228)	16600	5.00000	4.426
42 Cis 1,3-dichloropropene	75	6.501	6.502	(1.150)	27406	1.00000	0.9158
43 d8-Toluene	98	6.632	6.633	(1.173)	857490	10.0000	10.050
44 Toluene	92	6.666	6.667	(1.179)	63962	1.00000	0.9548
45 Trans 1,3-Dichloropropene	75	6.962	6.963	(1.232)	18913	1.00000	0.8595
46 2-Hexanone	43	7.526	7.526	(0.975)	25385	5.00000	4.587
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.252)	12368	1.00000	0.9482
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	22174	1.00000	0.9754
49 Tetrachloroethene	166	6.928	6.928	(0.898)	26706	1.00000	0.9686
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	14243	1.00000	0.9346
51 1,2-Dibromoethane	107	7.361	7.361	(1.302)	10609	1.00000	0.9157
52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	634278	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	64023	1.00000	0.9604
54 Ethyl Benzene	91	7.748	7.748	(1.004)	124757	1.00000	0.9863
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	19855	1.00000	0.9734
56 m,p-xylene	106	7.850	7.850	(1.017)	91823	2.00000	1.926
58 o-Xylene	106	8.157	8.158	(1.057)	41661	1.00000	0.9643
59 Styrene	104	8.197	8.198	(1.062)	64282	1.00000	0.9455
60 Isopropyl Benzene	105	8.379	8.380	(0.891)	110283	1.00000	1.004
61 Bromoform	173	8.214	8.215	(0.873)	5778	1.00000	0.8985
62 1,1,2,2-Tetrachloroethane	83	8.738	8.733	(0.929)	9502	1.00000	1.008
63 4-Bromofluorobenzene	95	8.584	8.585	(1.112)	254598	10.0000	9.894
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	2828	1.00000	0.9925
65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	1161	1.00000	0.6647

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ug/L)	ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	125776	1.00000	1.003
67 Bromobenzene	156	8.664	8.664	(0.921)	20998	1.00000	0.9987
68 1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	82346	1.00000	1.015
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	79454	1.00000	1.009
70 4-Chloro Toluene	91	8.914	8.915	(0.947)	67095	1.00000	0.9835
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	70797	1.00000	1.033
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	77640	1.00000	1.011
73 S-Butyl Benzene	105	9.187	9.188	(0.976)	102765	1.00000	1.020
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	77113	1.00000	1.003
75 1,3-Dichlorobenzene	146	9.352	9.353	(0.994)	33931	1.00000	0.9621
* 76 d4-1,4-Dichlorobenzene	152	9.409	9.410	(1.000)	208032	10.0000	
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	32547	1.00000	0.9671 (Q)
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	64179	1.00000	0.9771
‡ 79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	164206	10.0000	10.150
80 1,2-Dichlorobenzene	146	9.739	9.740	(1.035)	26554	1.00000	1.001
81 1,2-Dibromo 3-Chloropropane	75	10.360	10.355	(1.101)	881	1.00000	1.047
82 1,2,4-Trichlorobenzene	180	10.883	10.878	(1.157)	12447	1.00000	0.9624
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	9026	1.00000	1.173
84 Naphthalene	128	11.139	11.140	(1.184)	19396	1.00000	1.104
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	10028	1.00000	1.144

QC Flag Legend

- Γ - Target compound detected outside RT window.
- ‡ - Qualifier signal failed the ratio test.
- * - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 0100222.d
 Lab Smp Id: IC010
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 22-FEB-2010
 Calibration Time: 17:11
 Client Smp ID: vstd3
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

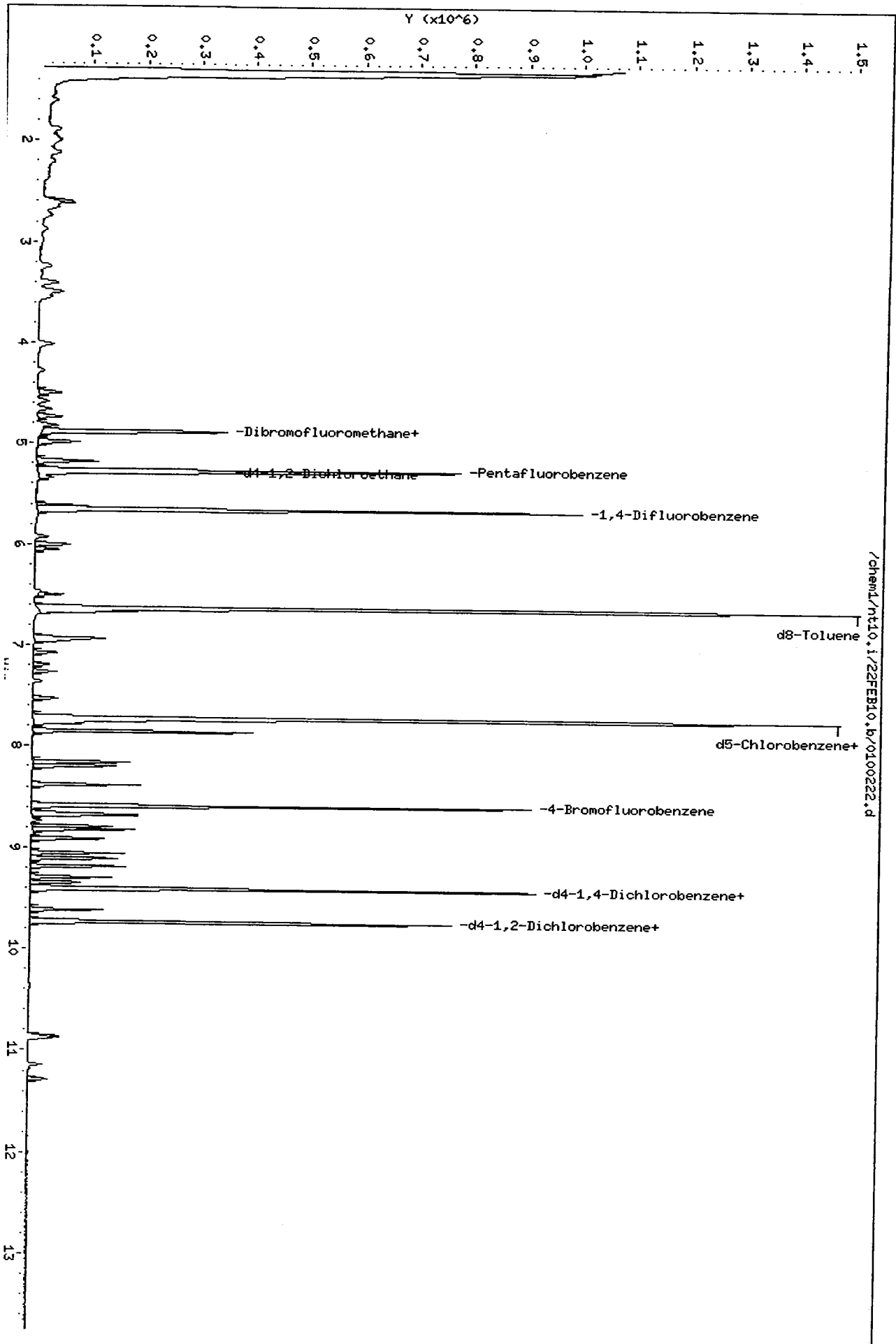
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	433328	-5.02
35 1,4-Difluorobenze	740651	370326	1481302	700220	-5.46
52 d5-Chlorobenzene	686240	343120	1372480	634278	-7.57
76 d4-1,4-Dichlorobe	249963	124982	499926	208032	-16.77

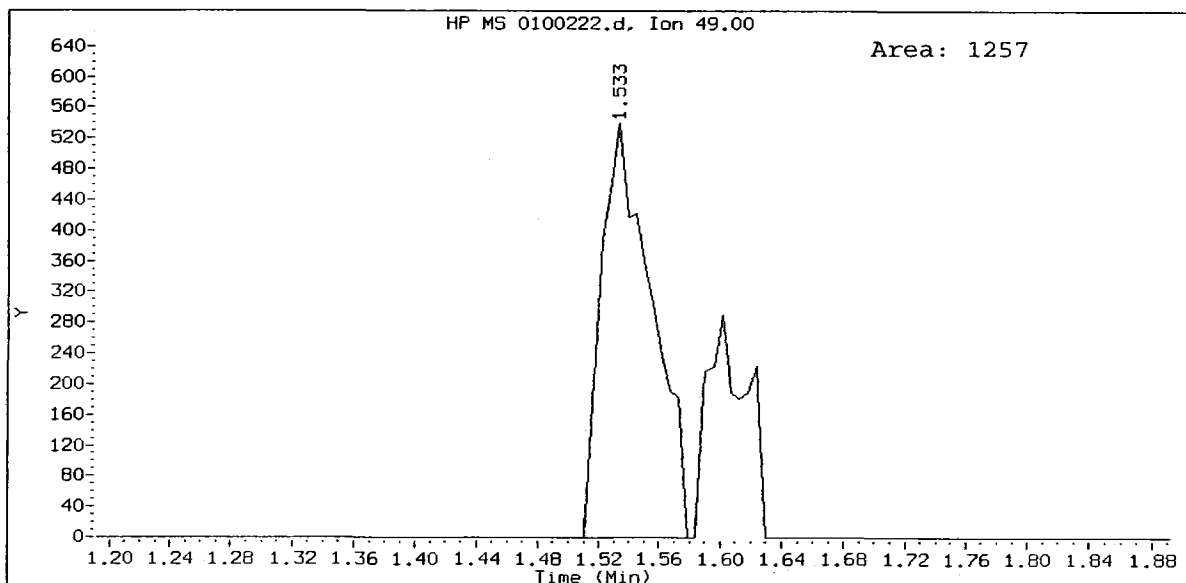
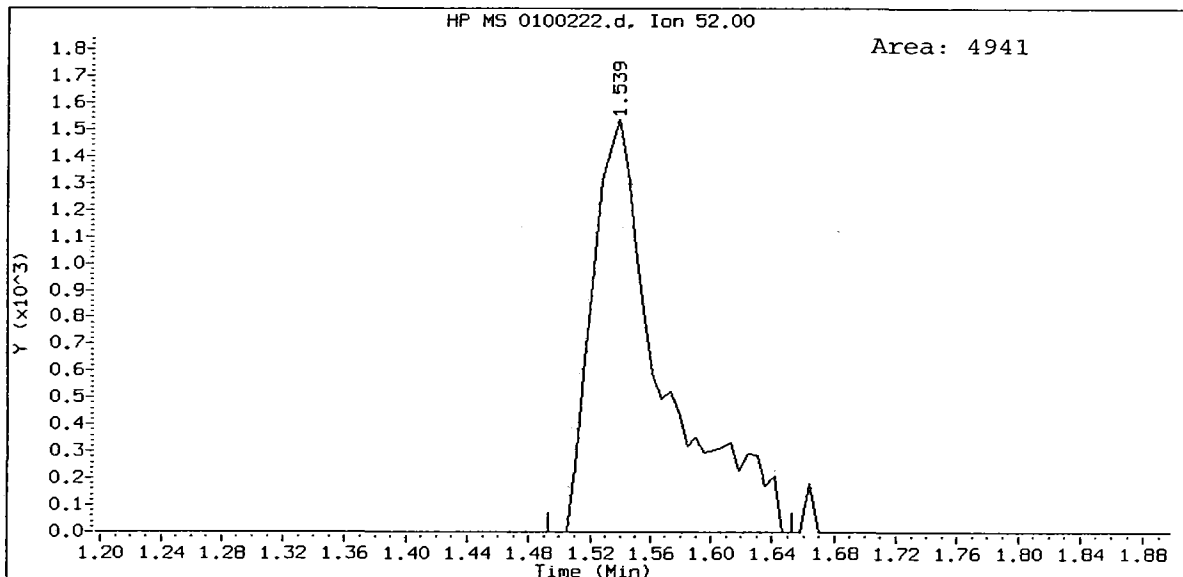
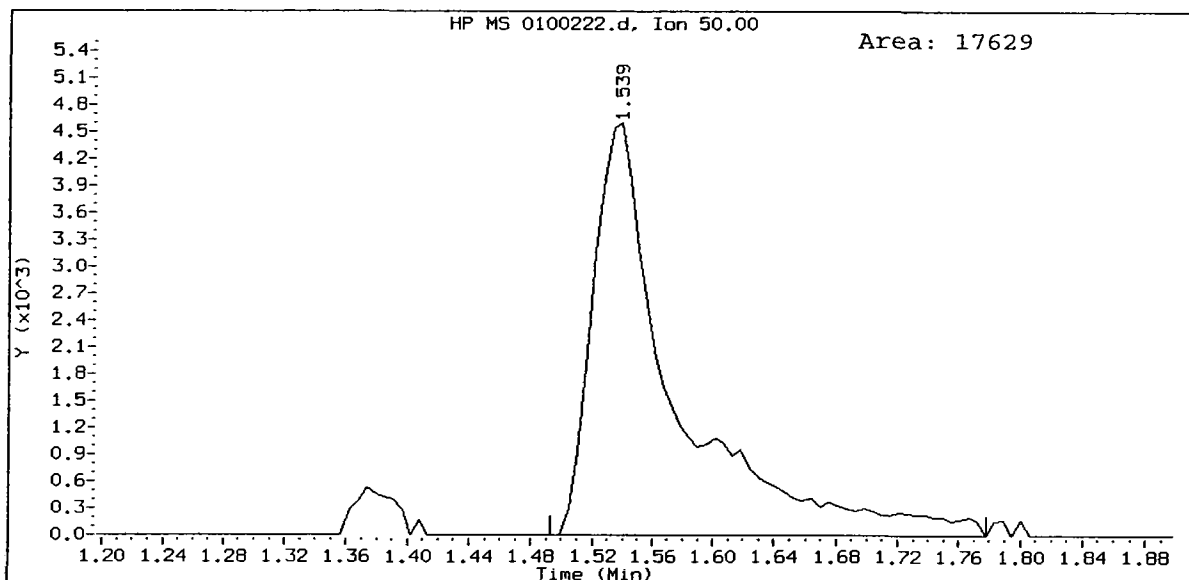
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.12
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.11
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	-0.01
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

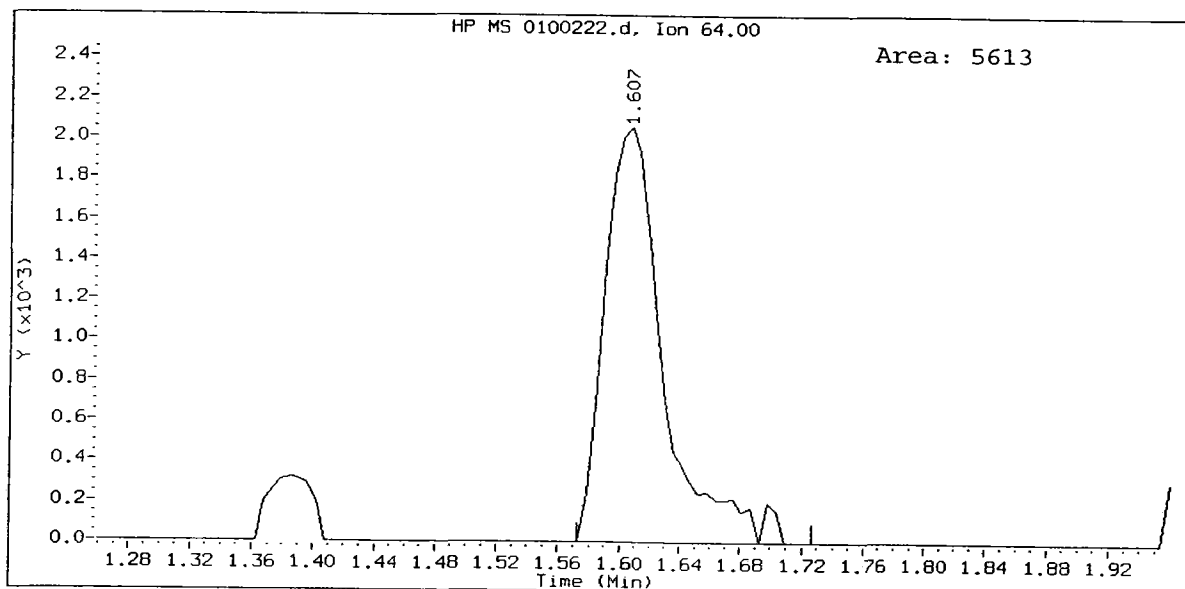
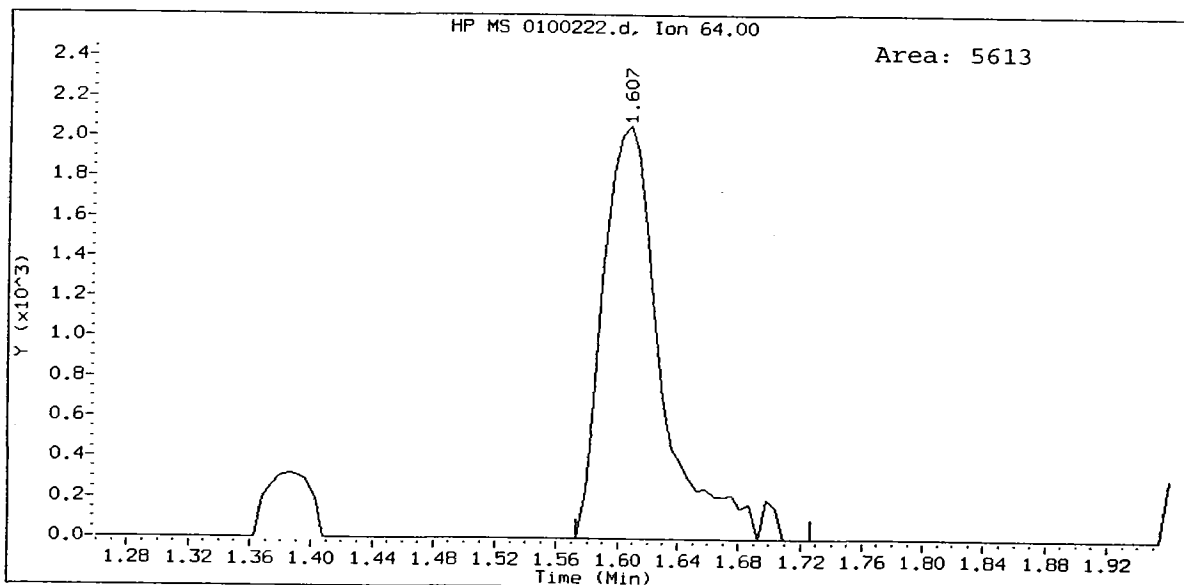
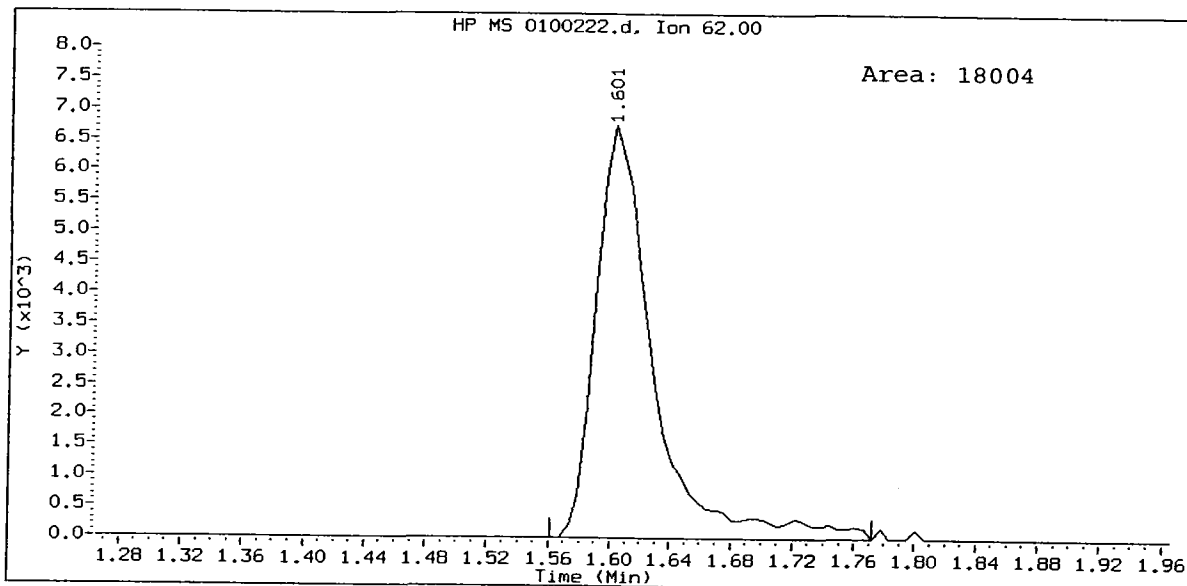
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Date : 22-FEB-2010 19:11
Client ID: vstd3
Sample Info: IC010,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18

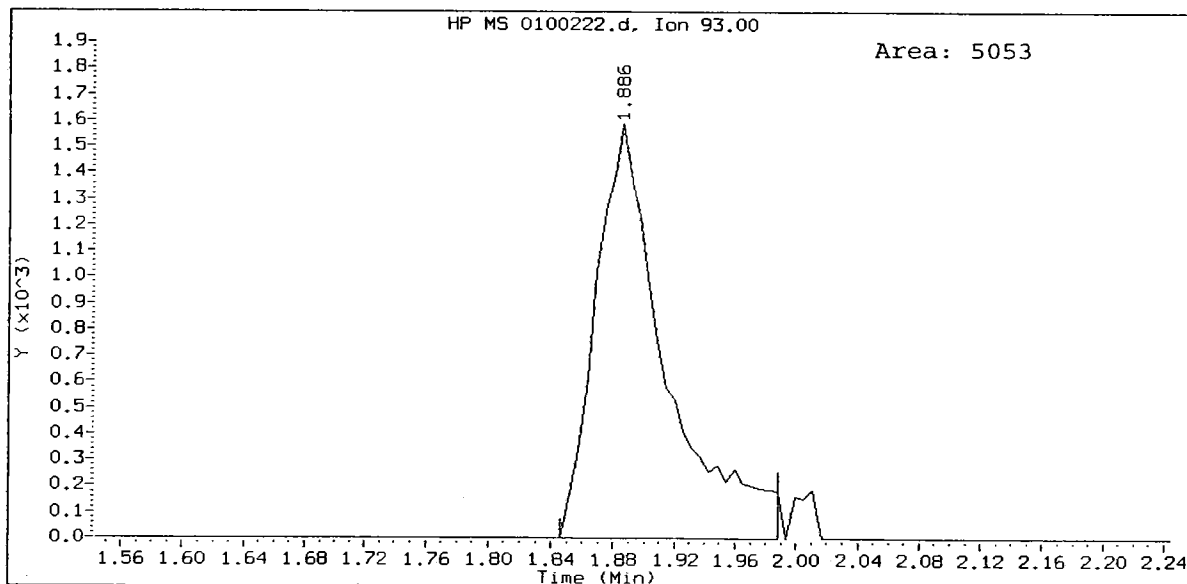
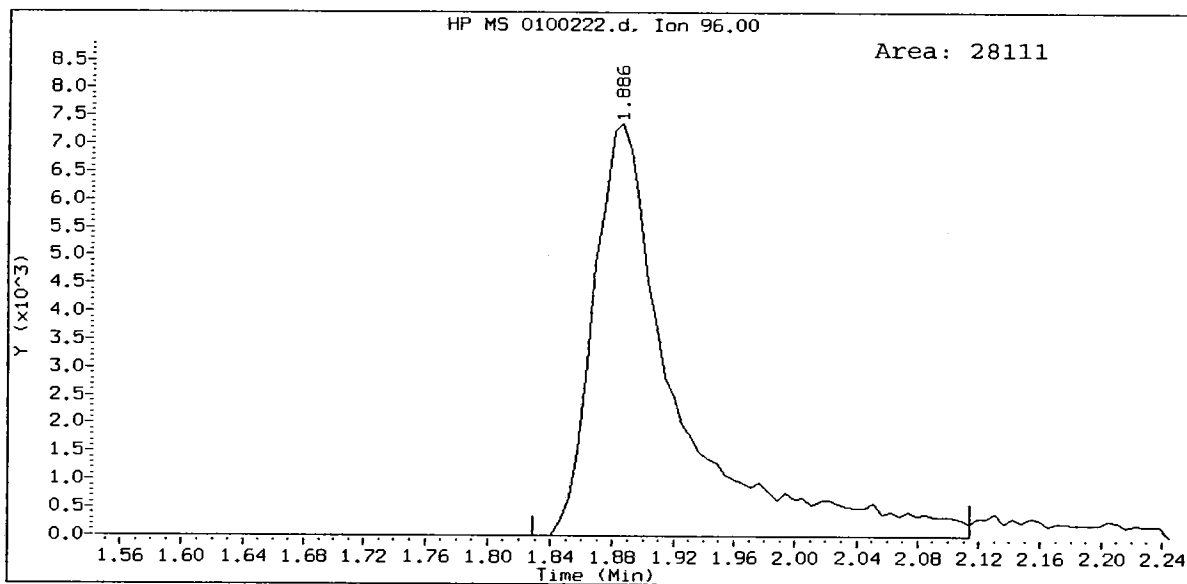
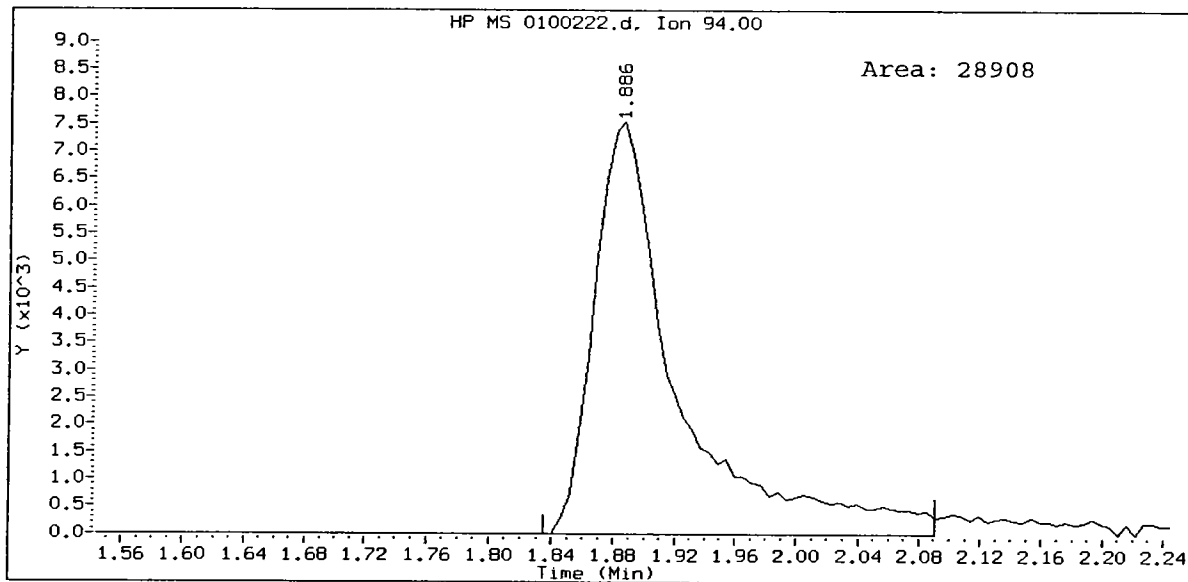




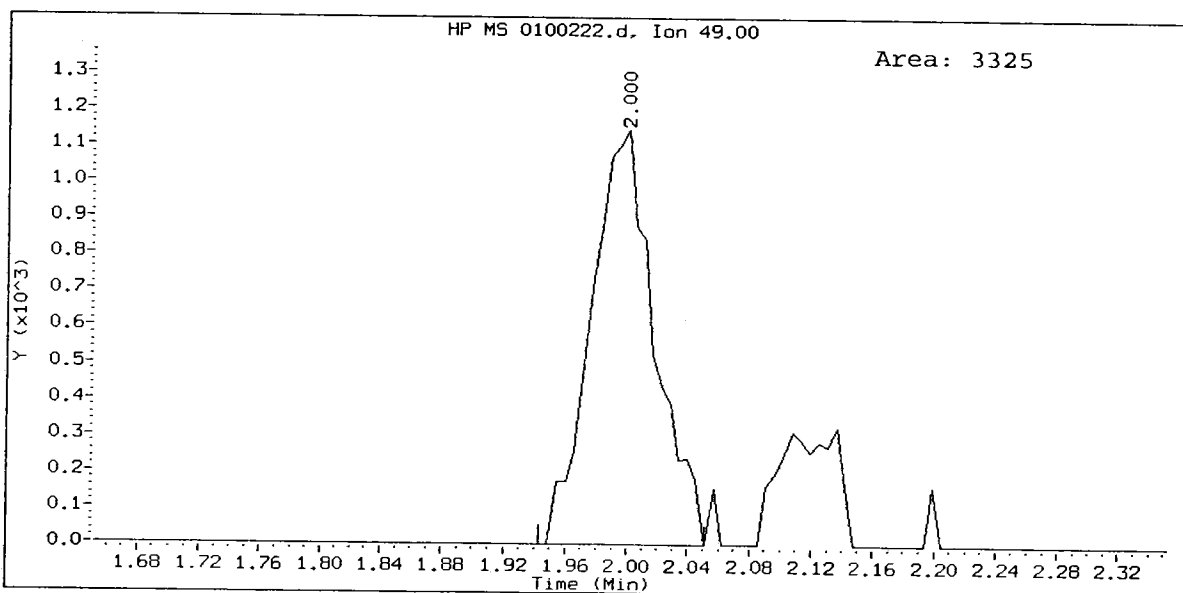
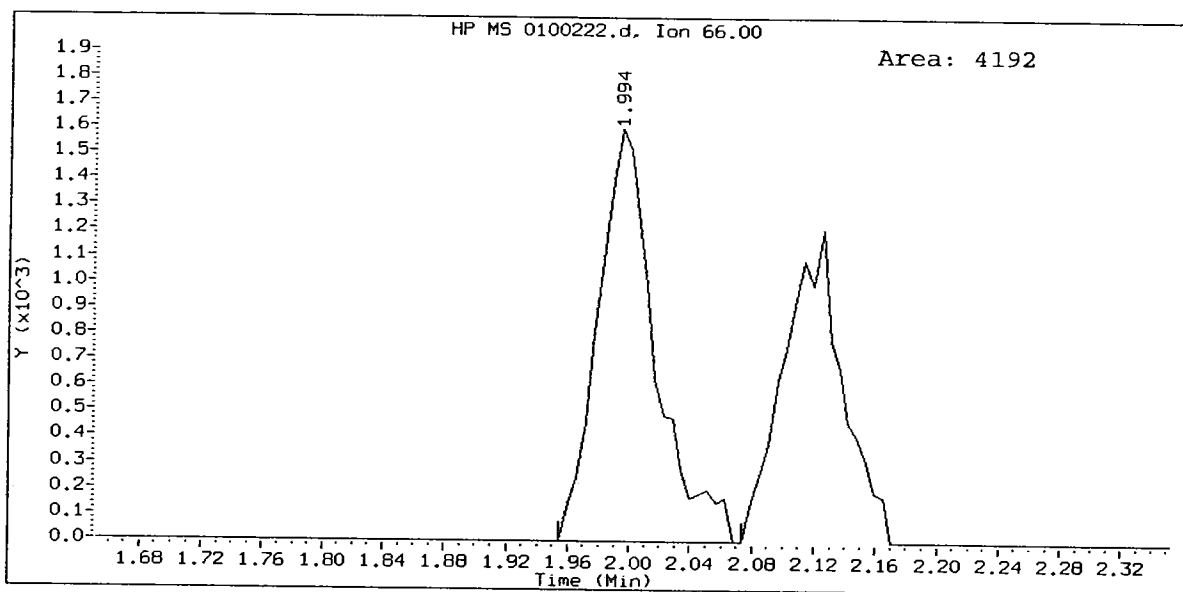
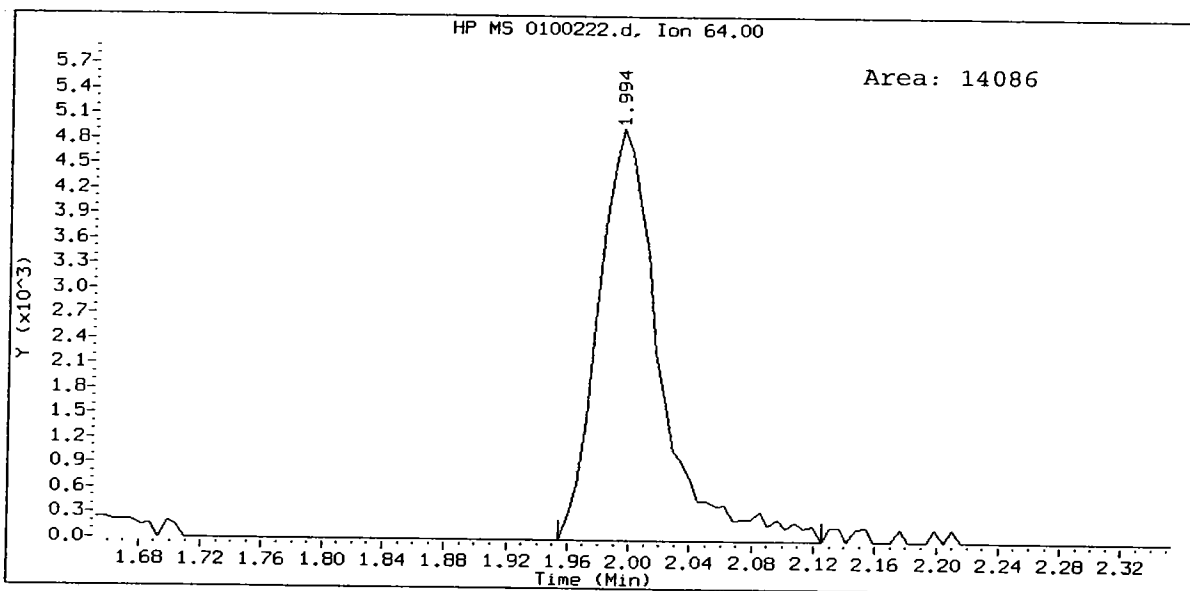
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Vinyl Chloride Amount: 0.93



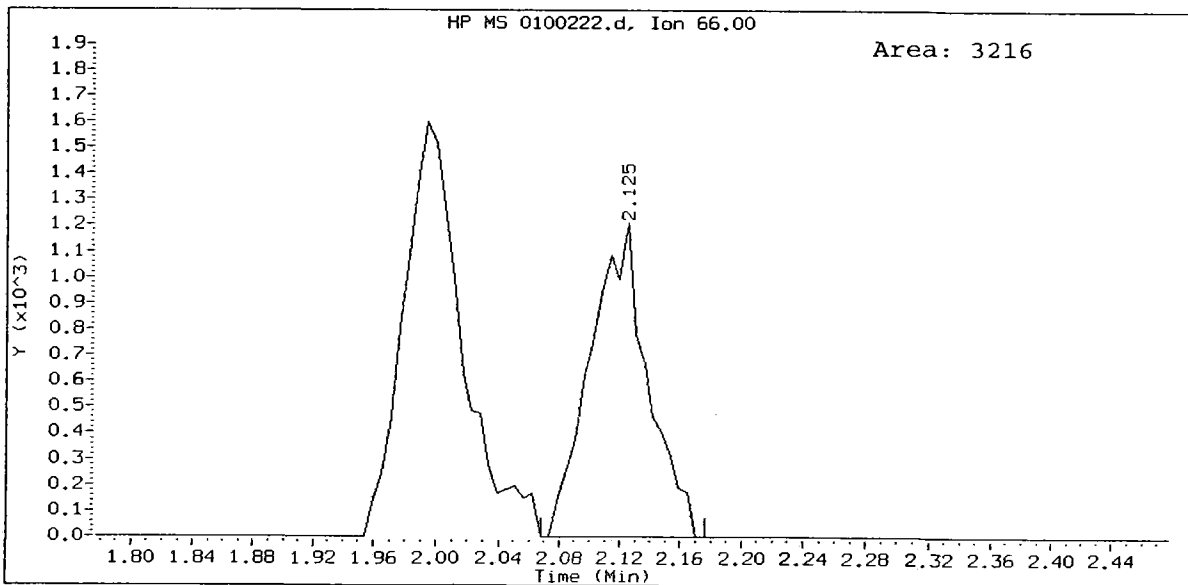
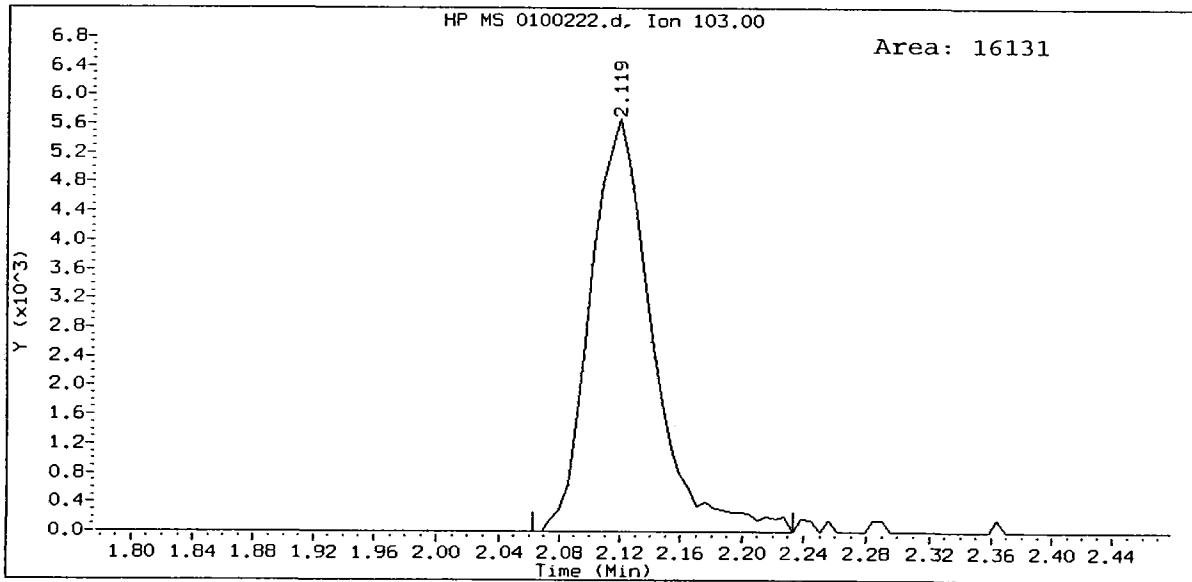
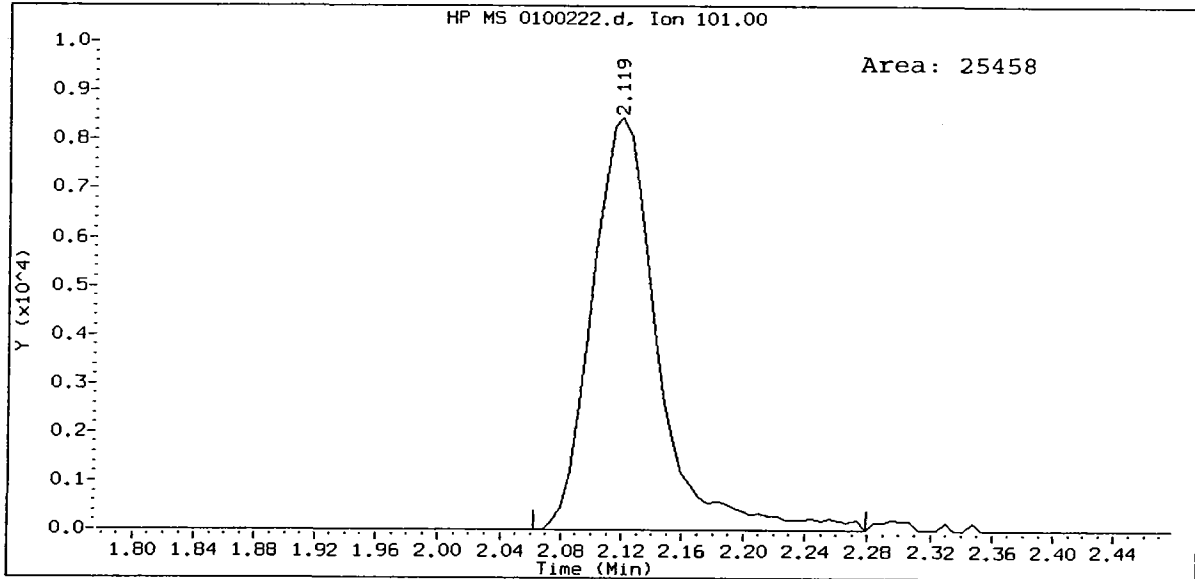
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Bromomethane Amount: 1.73



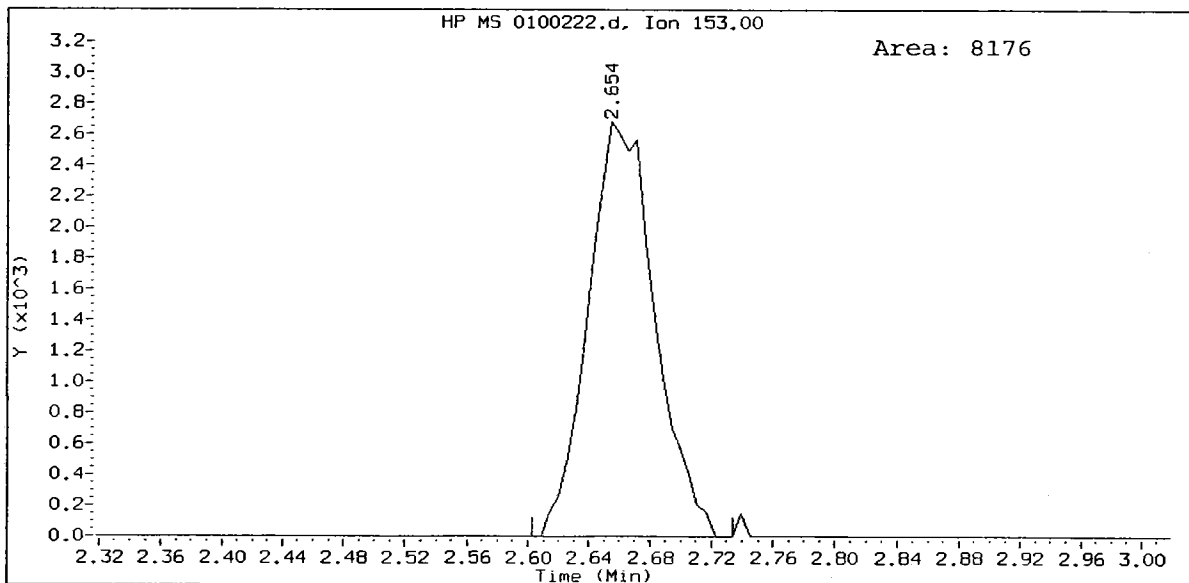
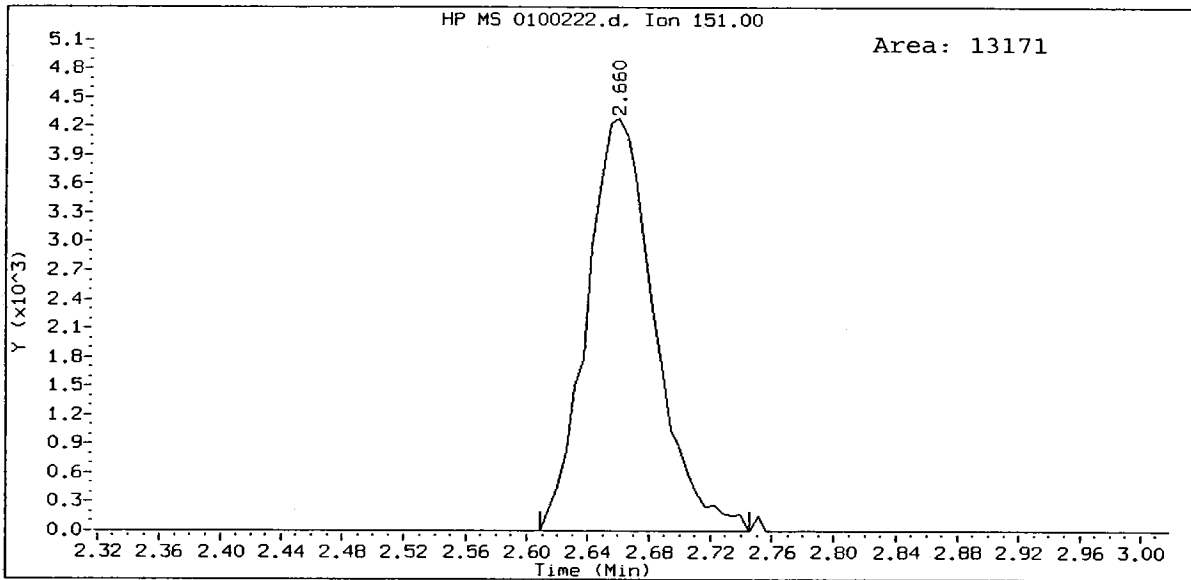
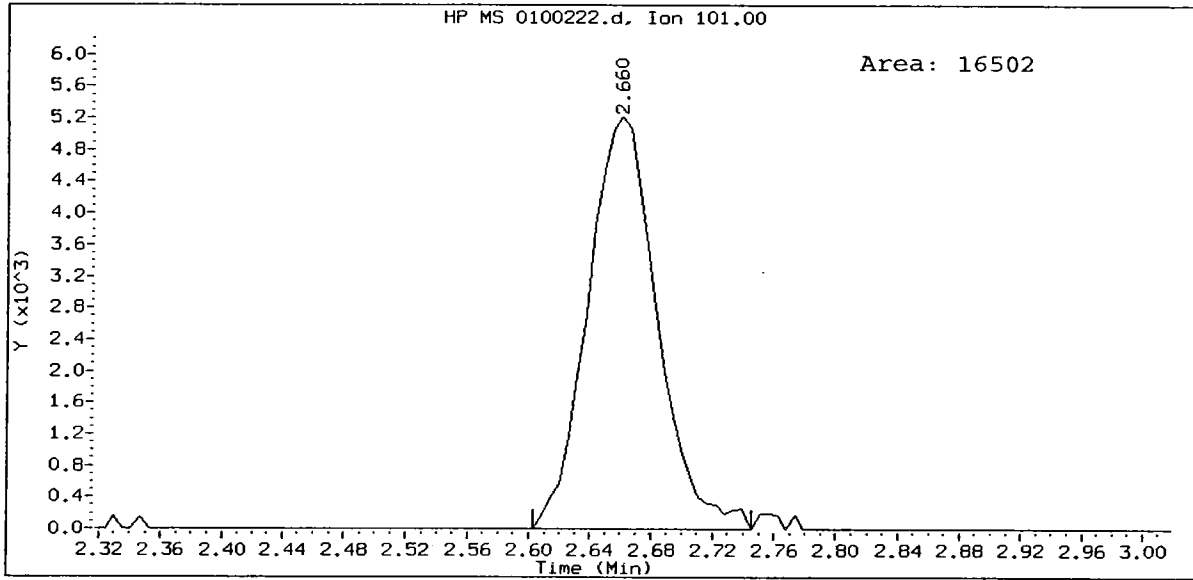
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Chloroethane Amount: 0.93



IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Trichlorofluoromethane Amount: 0.94

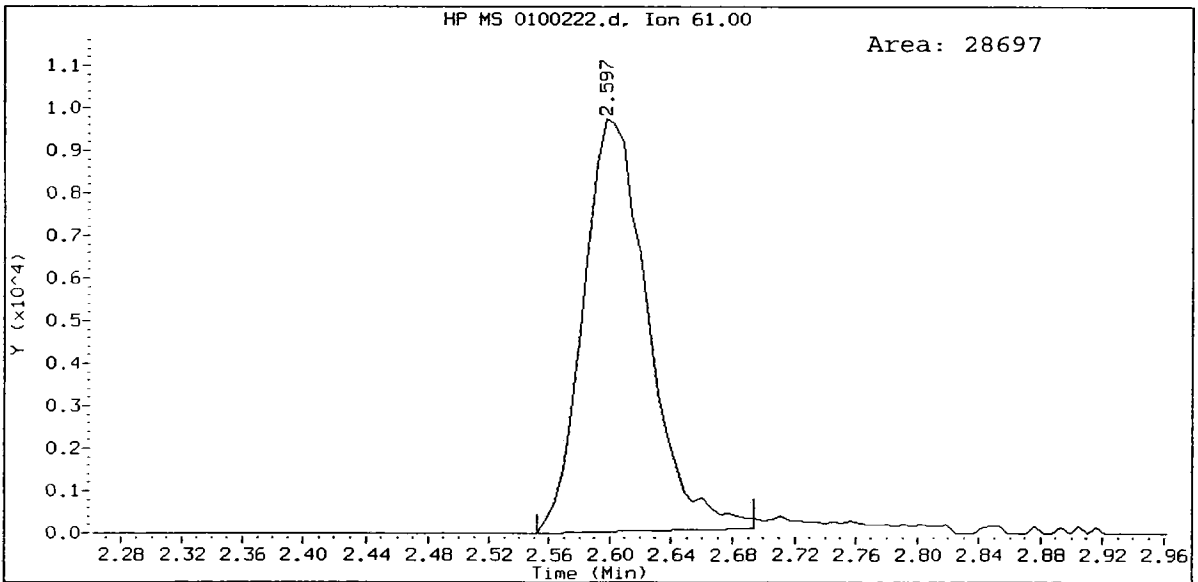
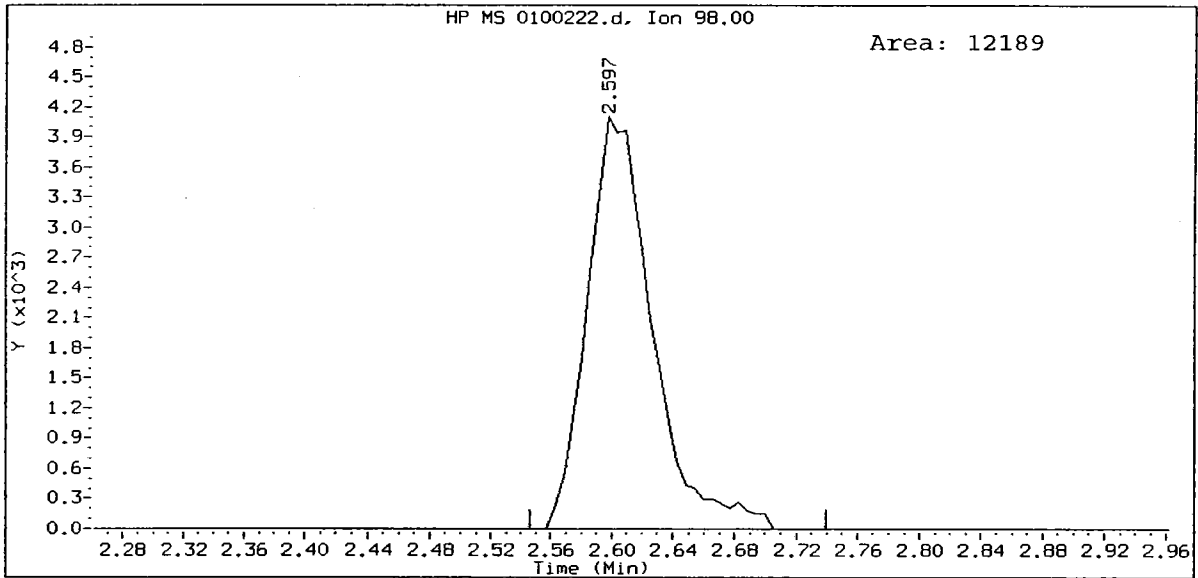
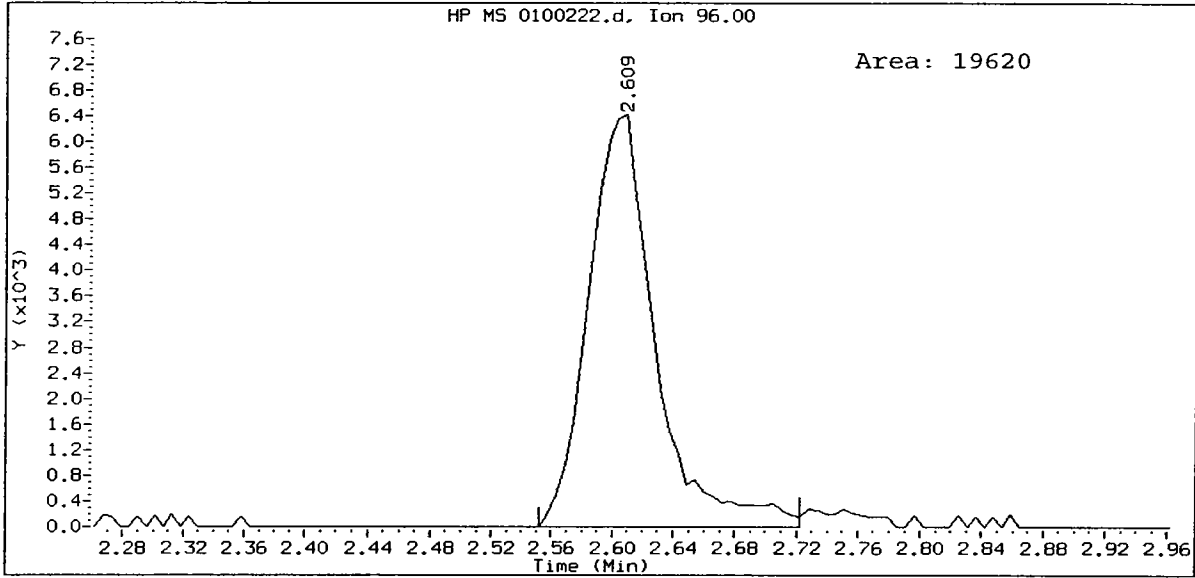


IC010, /chem1/nt10.i/22FEB10.b/0100222.d
112Trichloro122Trifluoroethane Amount: 0.91

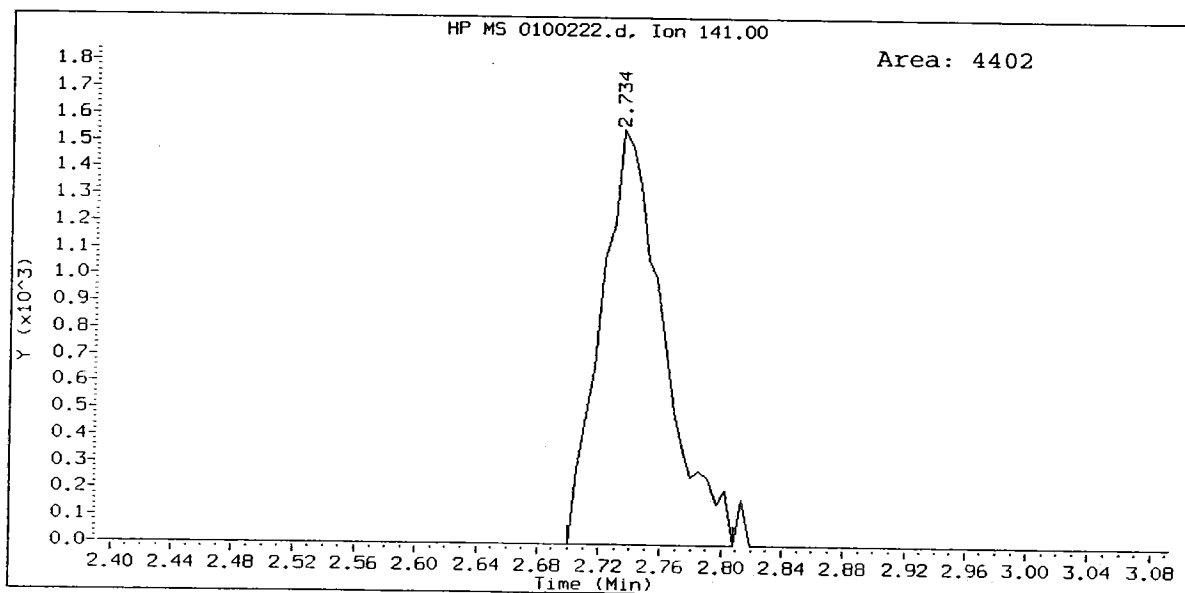
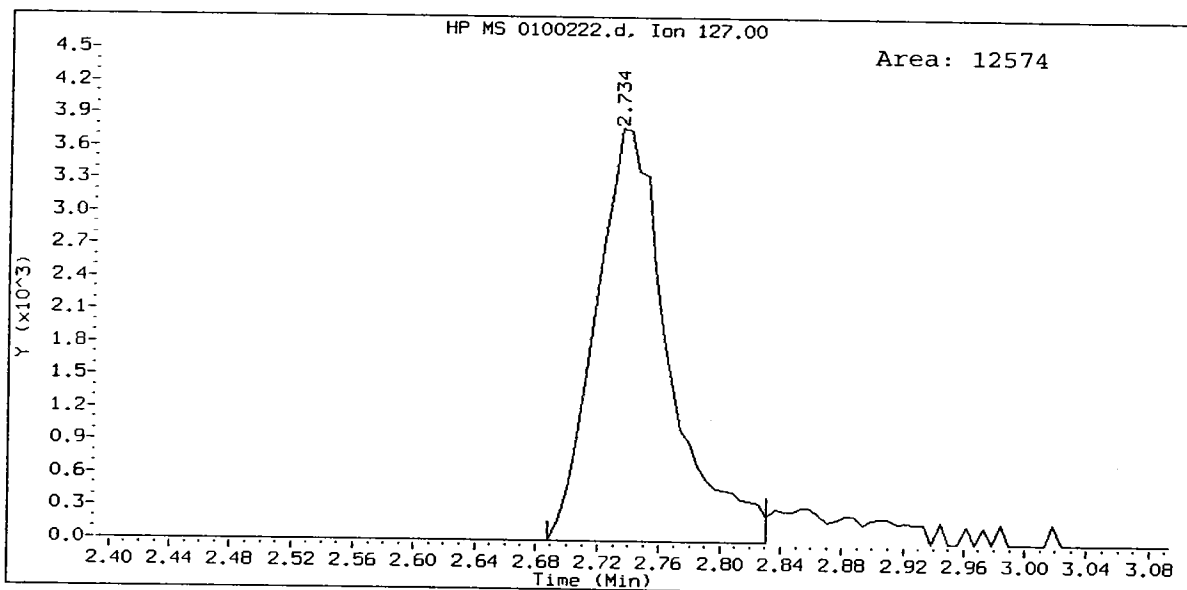
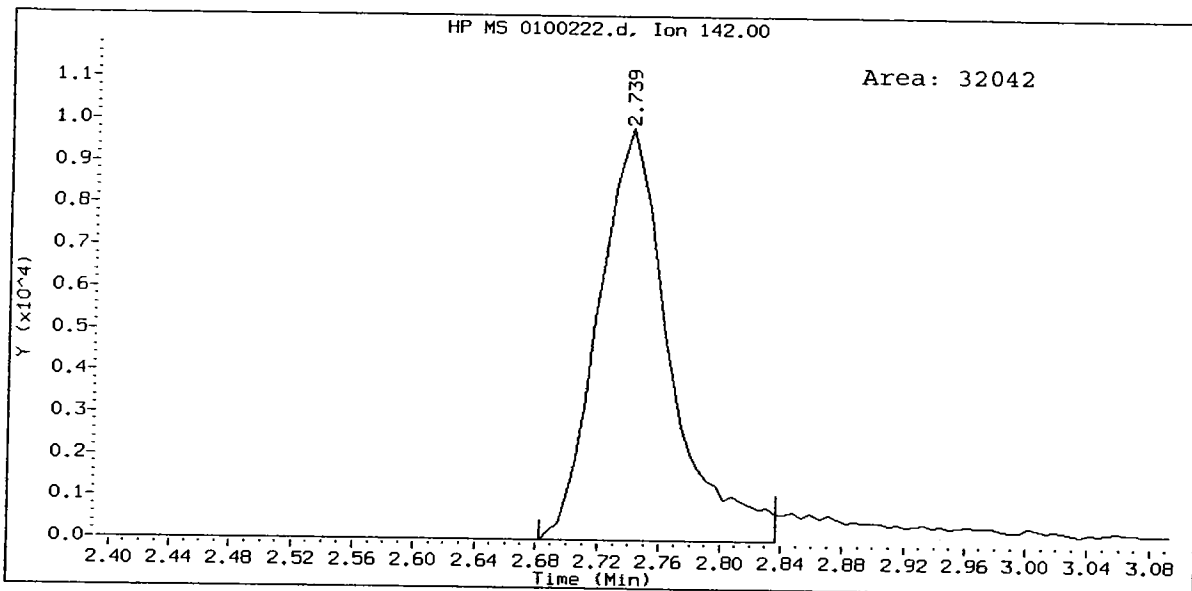


QL34:00342

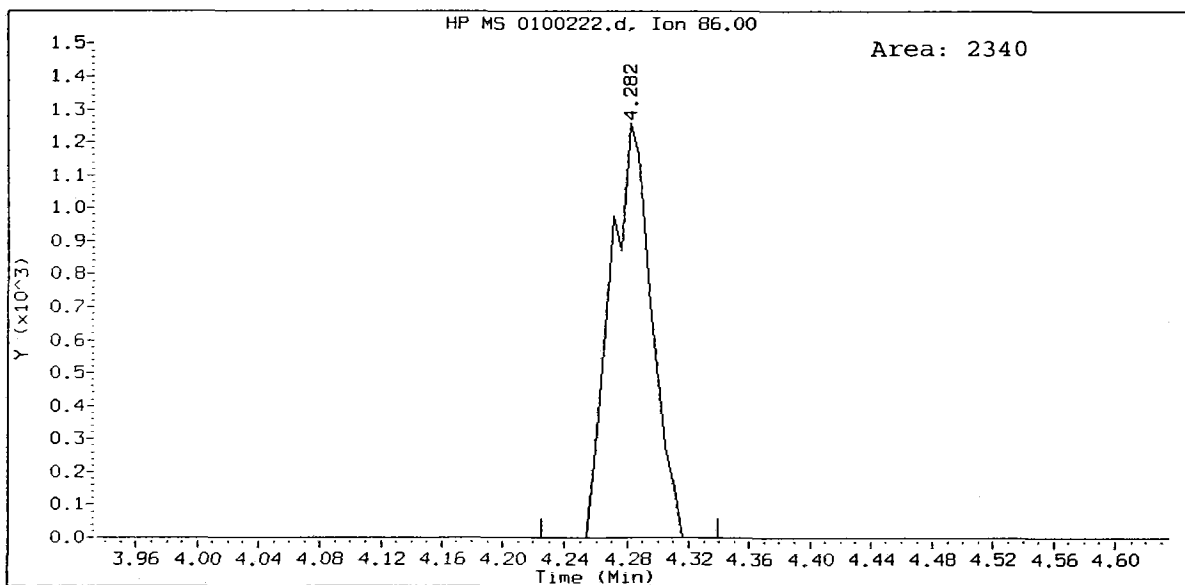
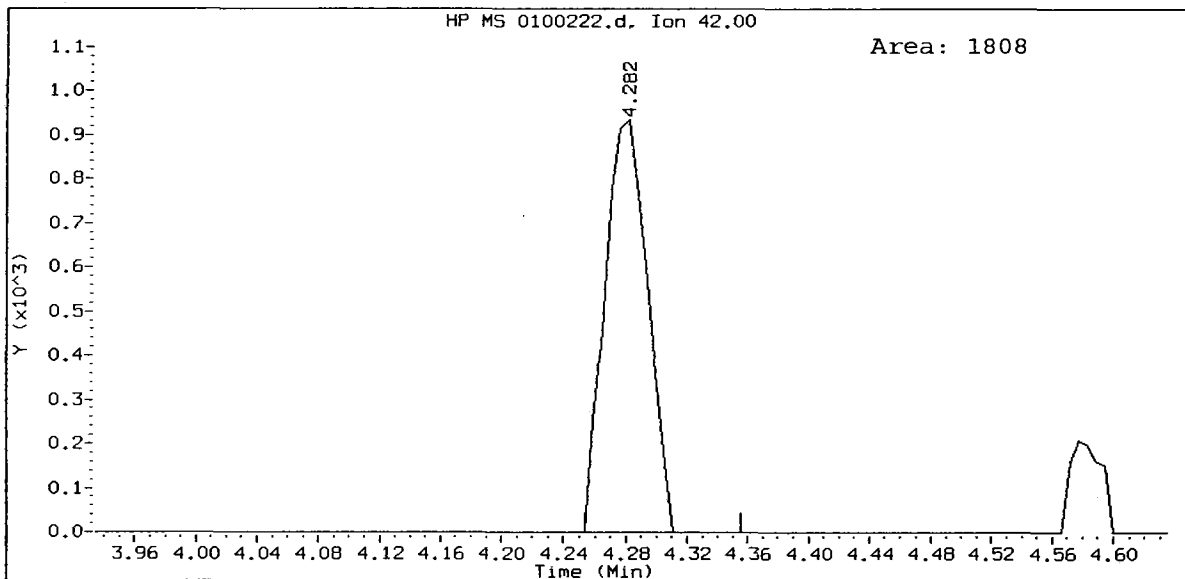
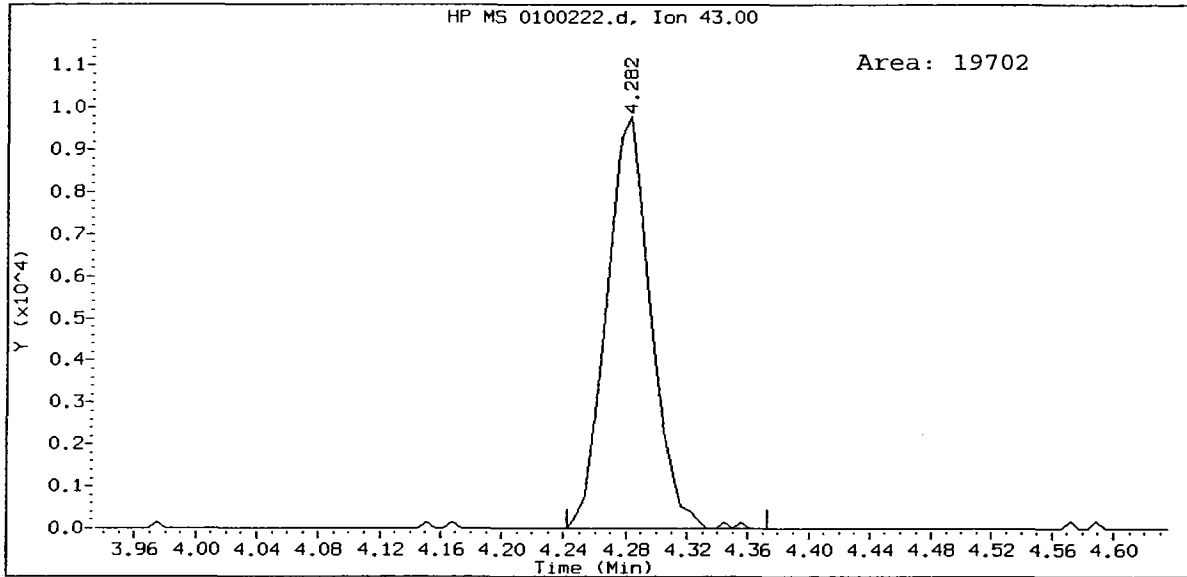
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1,1-Dichloroethene Amount: 0.91



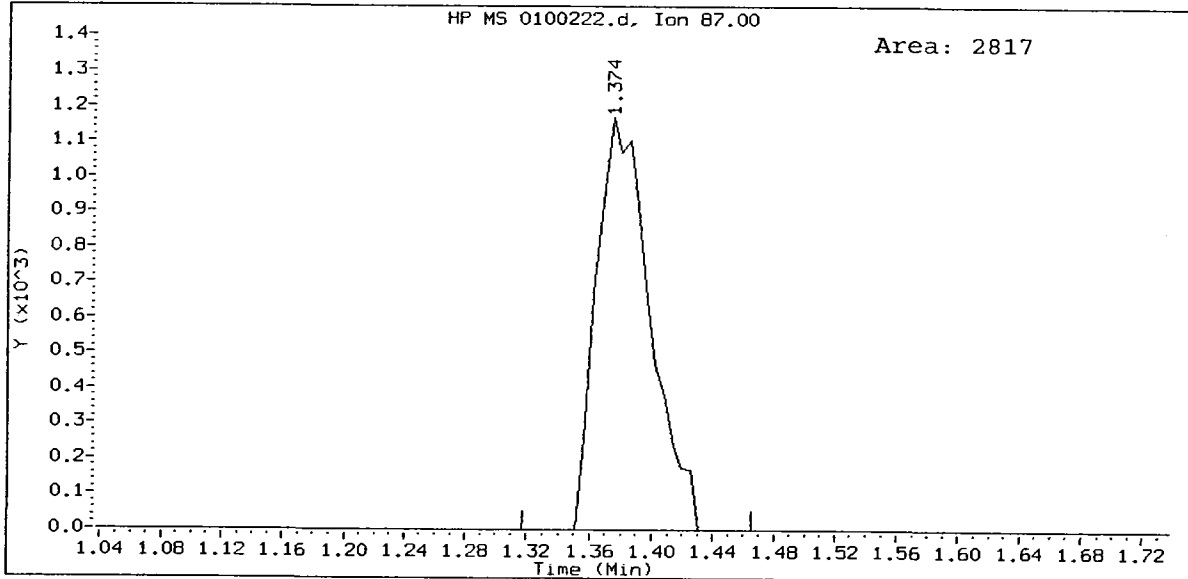
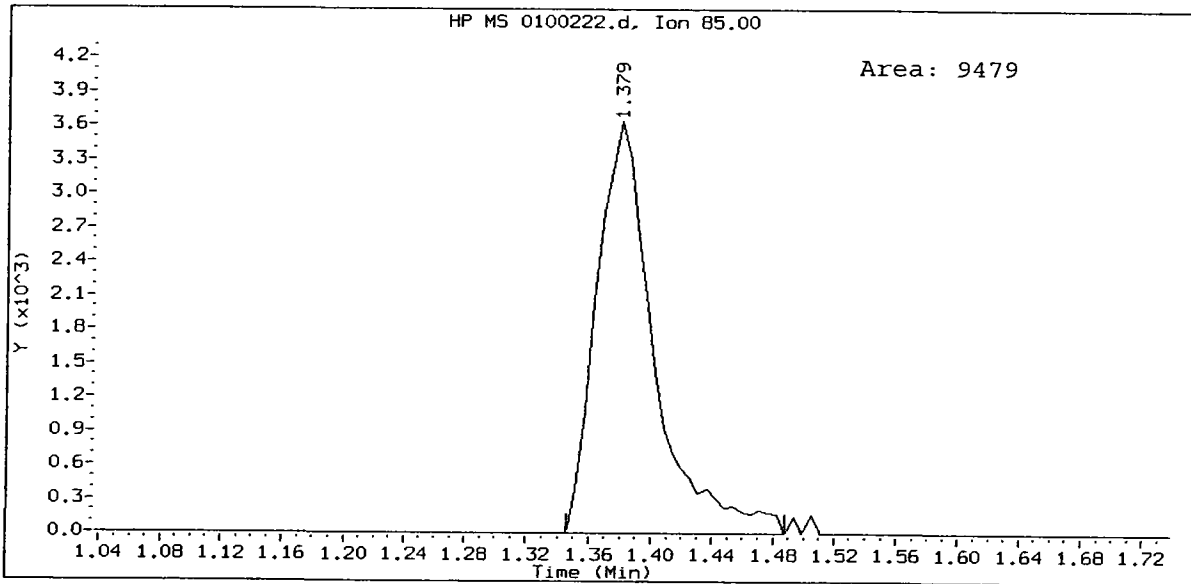
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Iodomethane Amount: 1.10



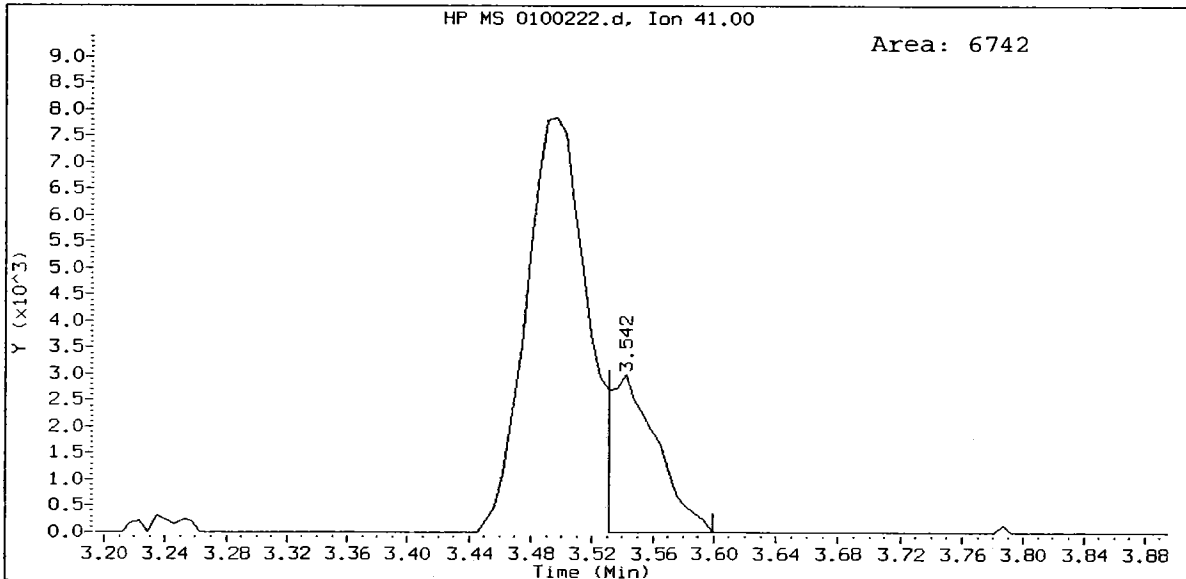
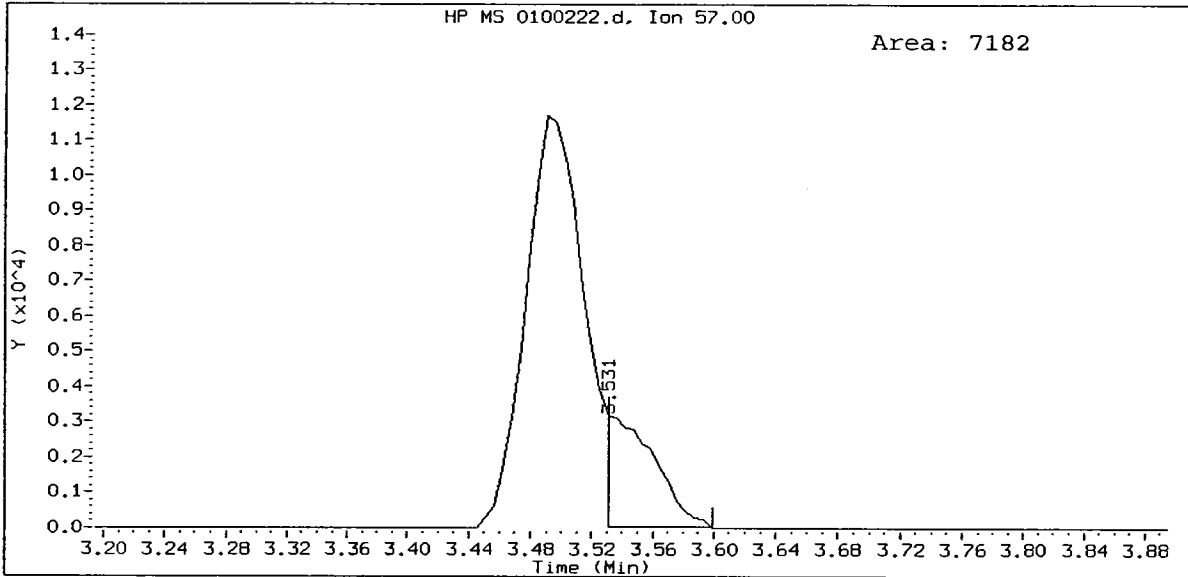
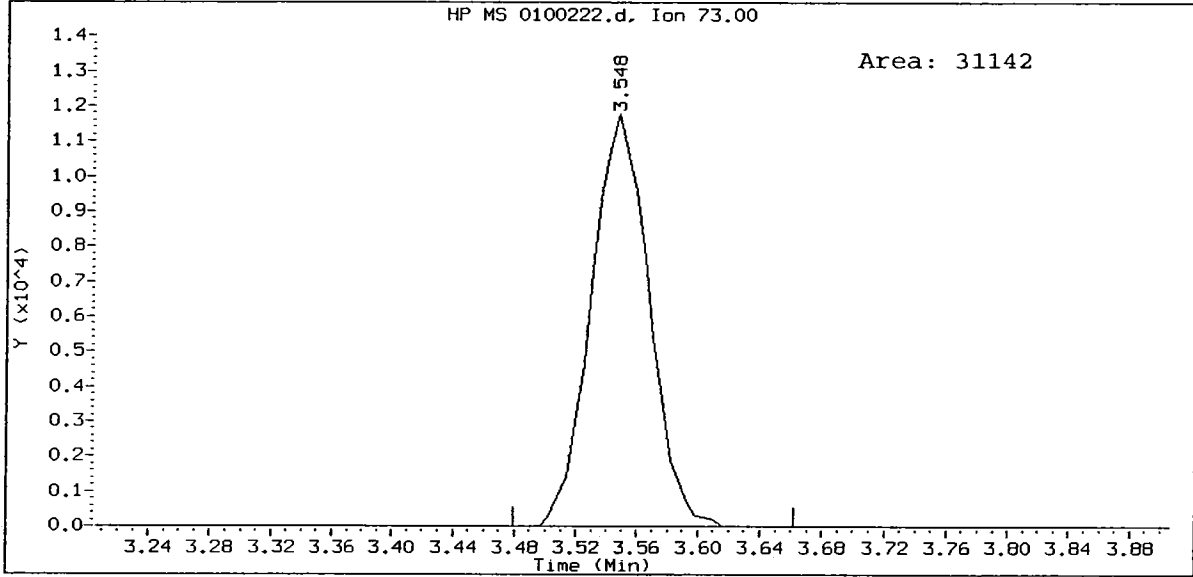
IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Vinyl Acetate Amount: 0.98



IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Dichlorodifluoromethane Amount: 0.87



IC010, /chem1/nt10.i/22FEB10.b/0100222.d
Methyl tert butyl ether Amount: 0.98



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/0400222.d
 Lab Smp Id: IC040 Client Smp ID: vstd5
 Inj Date : 22-FEB-2010 17:41
 Operator : ar Inst ID: nt10.i
 Smp Info : IC040,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.374	1.385	(0.261)	42397	4.00000	4.166
2 Chloromethane	50	1.533	1.545	(0.291)	56851	4.00000	3.735 (M)
3 Vinyl Chloride	62	1.602	1.613	(0.304)	76326	4.00000	4.217
4 Bromomethane	94	1.880	1.892	(0.357)	92429	4.00000	5.922 (M)
5 Chloroethane	64	1.989	2.000	(0.378)	64180	4.00000	4.516
6 Trichlorofluoromethane	101	2.108	2.125	(0.400)	107481	4.00000	4.225
8 Acrolein	56	2.990	2.996	(0.568)	24830	20.0000	21.259
9 112Trichloro122Trifluoroethane	101	2.654	2.666	(0.504)	73260	4.00000	4.316
10 Acetone	43	3.326	3.326	(0.632)	39111	20.0000	20.922
11 1,1-Dichloroethene	96	2.598	2.609	(0.493)	85342	4.00000	4.227
12 Bromoethane	108	2.871	2.882	(0.545)	50653	4.00000	4.111
13 Iodomethane	142	2.734	2.740	(0.519)	116988	4.00000	4.287
14 Methylene Chloride	84	3.241	3.252	(0.615)	71508	4.00000	4.252
15 Acrylonitrile	53	4.083	4.089	(0.775)	10213	4.00000	4.290
16 Methyl tert butyl ether	73	3.548	3.554	(0.674)	123044	4.00000	4.145 (M)

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
17 Carbon Disulfide	76	2.603	2.615	(0.494)	277621	4.00000	4.199 (M)
18 Trans-1,2-Dichloroethene	96	3.406	3.411	(0.647)	88461	4.00000	4.170
20 Vinyl Acetate	43	4.282	4.282	(0.813)	77415	4.00000	4.124
21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	144272	4.00000	4.174
22 2-Butanone	72	4.993	4.994	(0.948)	24795	20.0000	20.621
23 2,2-Dichloropropane	77	4.584	4.584	(0.870)	57195	4.00000	4.159
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.854)	92445	4.00000	3.906
25 Pentafluorobenzene	168	5.267	5.272	(1.000)	405719	10.0000	
26 Chloroform	83	4.732	4.737	(0.898)	154076	4.00000	4.184
27 Bromochloromethane	128	4.658	4.663	(0.884)	33887	4.00000	4.215
28 Dibromofluoromethane	111	4.880	4.880	(0.927)	172106	10.0000	10.171
29 1,1,1-Trichloroethane	97	4.880	4.885	(0.927)	121645	4.00000	4.247
30 1,1-Dichloropropene	75	4.982	4.982	(0.881)	129326	4.00000	4.019
31 Carbon Tetrachloride	117	4.823	4.823	(0.853)	97925	4.00000	4.160
32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.004)	153857	10.0000	10.340
33 1,2-Dichloroethane	62	5.341	5.341	(0.945)	81137	4.00000	4.152
34 Benzene	78	5.176	5.181	(0.915)	371236	4.00000	4.084
35 1,4-Difluorobenzene	114	5.654	5.659	(1.000)	648113	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.994)	97807	4.00000	4.016
37 1,2-Dichloropropane	63	6.001	6.007	(1.061)	80802	4.00000	4.106
38 Bromodichloromethane	83	6.052	6.052	(1.070)	102747	4.00000	4.128
39 Dibromomethane	93	5.927	5.927	(1.048)	33914	4.00000	4.312
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.144)	19052	4.00000	4.078
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.228)	72938	20.0000	21.012
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.150)	113017	4.00000	4.080
43 d8-Toluene	98	6.632	6.633	(1.173)	795247	10.0000	10.070
44 Toluene	92	6.667	6.667	(1.179)	253280	4.00000	4.085
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.232)	81284	4.00000	3.991
46 2-Hexanone	43	7.526	7.526	(0.975)	112292	20.0000	21.089
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.252)	50367	4.00000	4.172
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	90794	4.00000	4.151
49 Tetrachloroethene	166	6.928	6.928	(0.898)	105418	4.00000	3.974
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	60106	4.00000	4.100
51 1,2-Dibromoethane	107	7.361	7.361	(1.302)	45728	4.00000	4.264
52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	610243	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	261870	4.00000	4.083
54 Ethyl Benzene	91	7.748	7.748	(1.004)	510502	4.00000	4.195
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	82286	4.00000	4.193
56 m,p-xylene	106	7.850	7.850	(1.017)	380451	8.00000	8.295
58 o-Xylene	106	8.158	8.158	(1.057)	176045	4.00000	4.235
59 Styrene	104	8.197	8.198	(1.062)	277986	4.00000	4.250
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	480190	4.00000	3.785
61 Bromoform	173	8.215	8.215	(0.873)	27614	4.00000	3.717
62 1,1,2,2-Tetrachloroethane	83	8.738	8.733	(0.929)	43504	4.00000	3.993
63 4-Bromofluorobenzene	95	8.584	8.585	(1.112)	265548	10.0000	10.726
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	13327	4.00000	4.049 (M)
65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	6578	4.00000	3.234 (M)

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/L)	ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	559493	4.00000	3.862
67 Bromobenzene	156	8.664	8.664	(0.921)	90998	4.00000	3.746
68 1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	379176	4.00000	4.045
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	351529	4.00000	3.863
70 4-Chloro Toluene	91	8.915	8.915	(0.947)	304206	4.00000	3.859
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	320836	4.00000	4.050
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	365752	4.00000	4.124
73 S-Butyl Benzene	105	9.188	9.188	(0.976)	484226	4.00000	4.158
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	377214	4.00000	4.248
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	165986	4.00000	4.073
76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	240346	10.0000	
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	157028	4.00000	4.039
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	326120	4.00000	4.297
79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	189349	10.0000	10.130
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	124393	4.00000	4.058
81 1,2-Dibromo 3-Chloropropane	75	10.360	10.355	(1.101)	4177	4.00000	4.297
82 1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	56725	4.00000	3.796
83 Hexachloro 1,3-Butadiene	225	10.861	10.855	(1.154)	37846	4.00000	4.256
84 Naphthalene	128	11.140	11.140	(1.184)	83595	4.00000	4.117
85 1,2,3-Trichlorobenzene	180	11.288	11.282	(1.200)	42472	4.00000	4.193

QC Flag Legend

4 - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 0400222.d
 Lab Smp Id: IC040
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 22-FEB-2010
 Calibration Time: 17:11
 Client Smp ID: vstd5
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	405719	-11.07
35 1,4-Difluorobenze	740651	370326	1481302	648113	-12.49
52 d5-Chlorobenzene	686240	343120	1372480	610243	-11.07
76 d4-1,4-Dichlorobe	249963	124982	499926	240346	-3.85

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.11
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.10
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

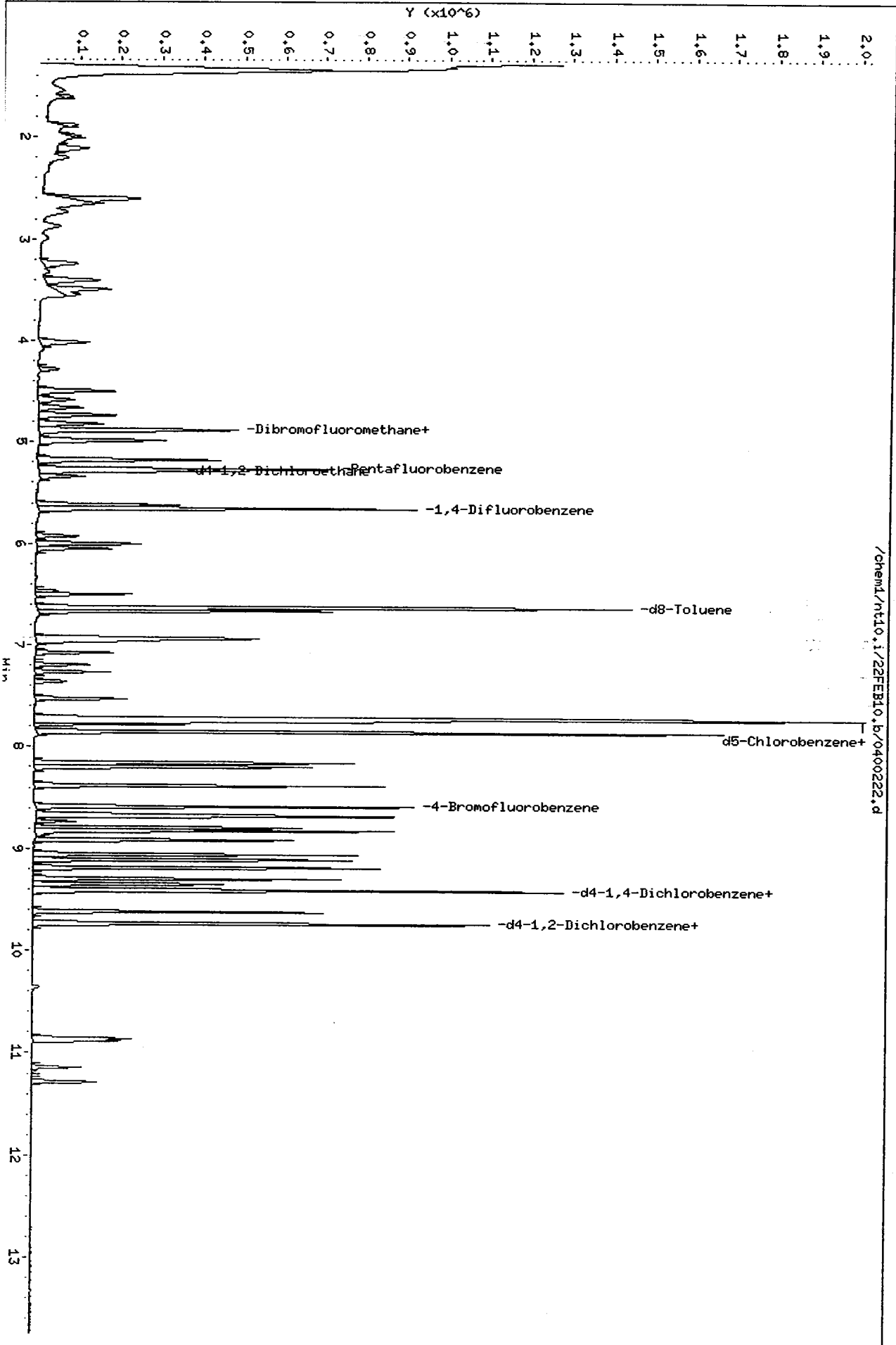
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/0400222.d
Date: 22-FEB-2010 17:41

Client ID: vstd5
Sample Info: IC040,10,10,0

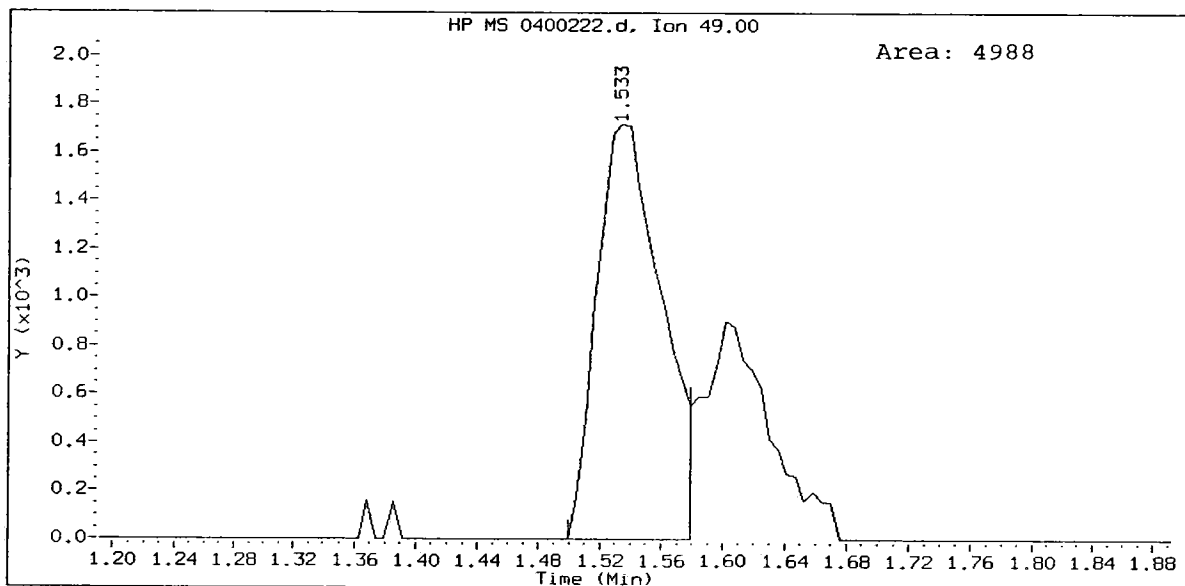
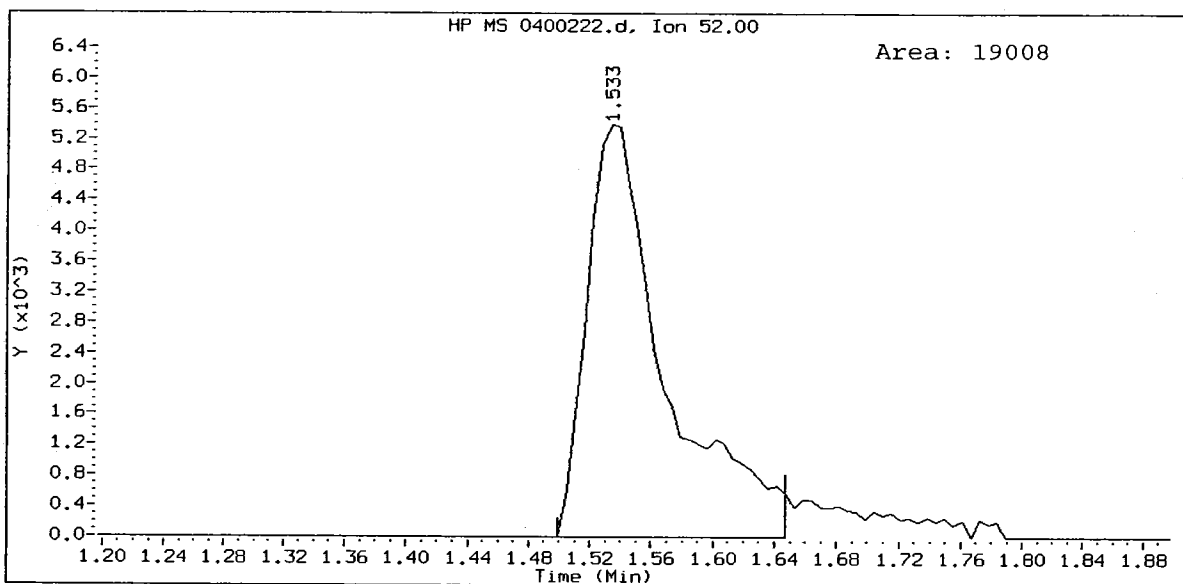
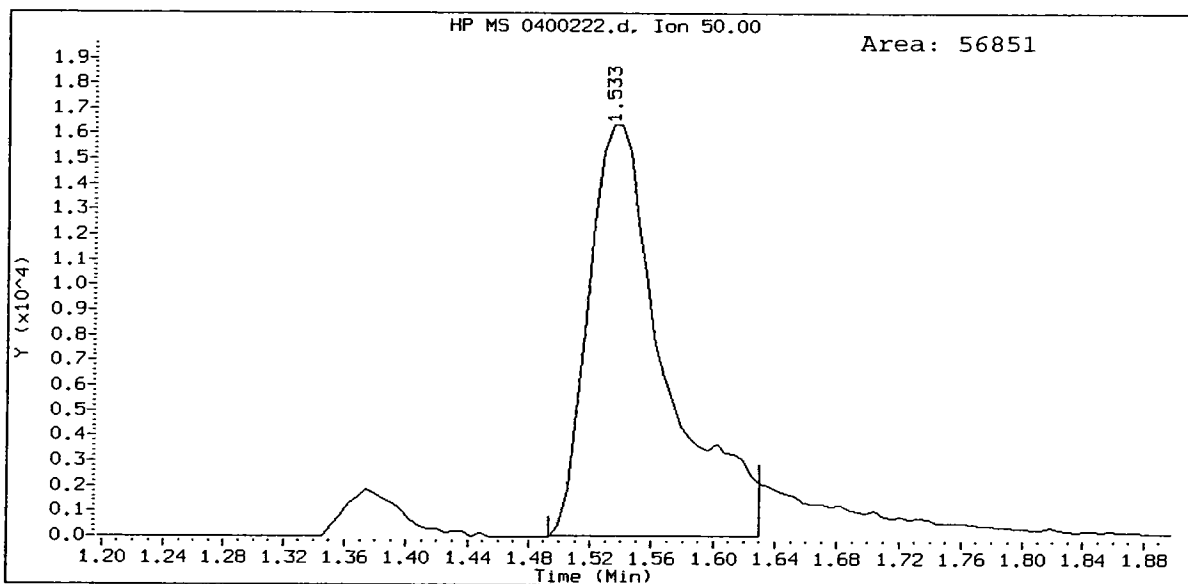
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18

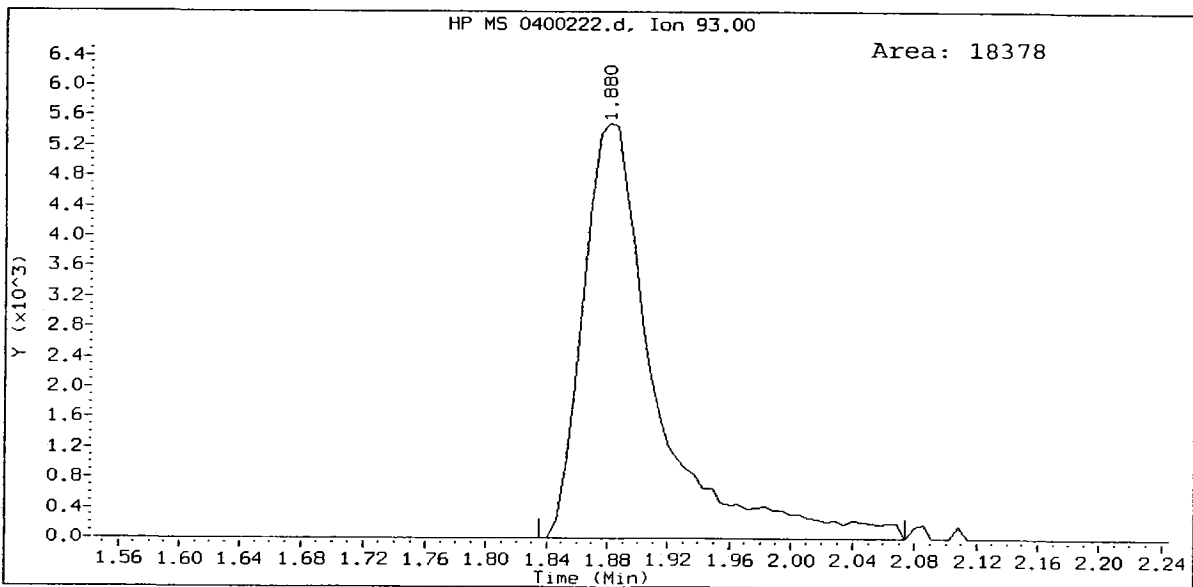
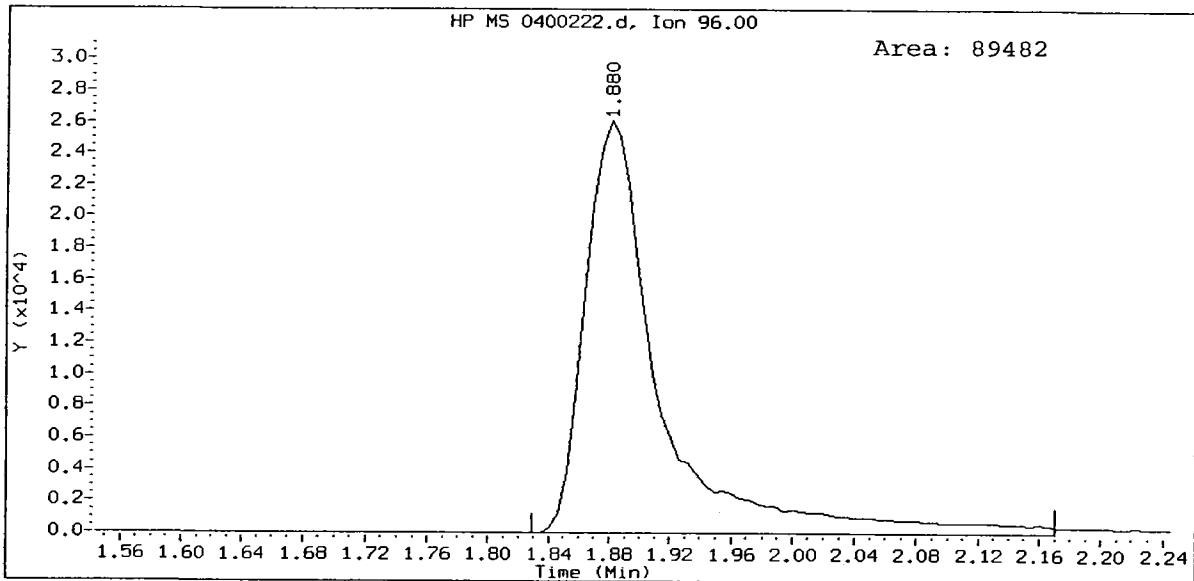
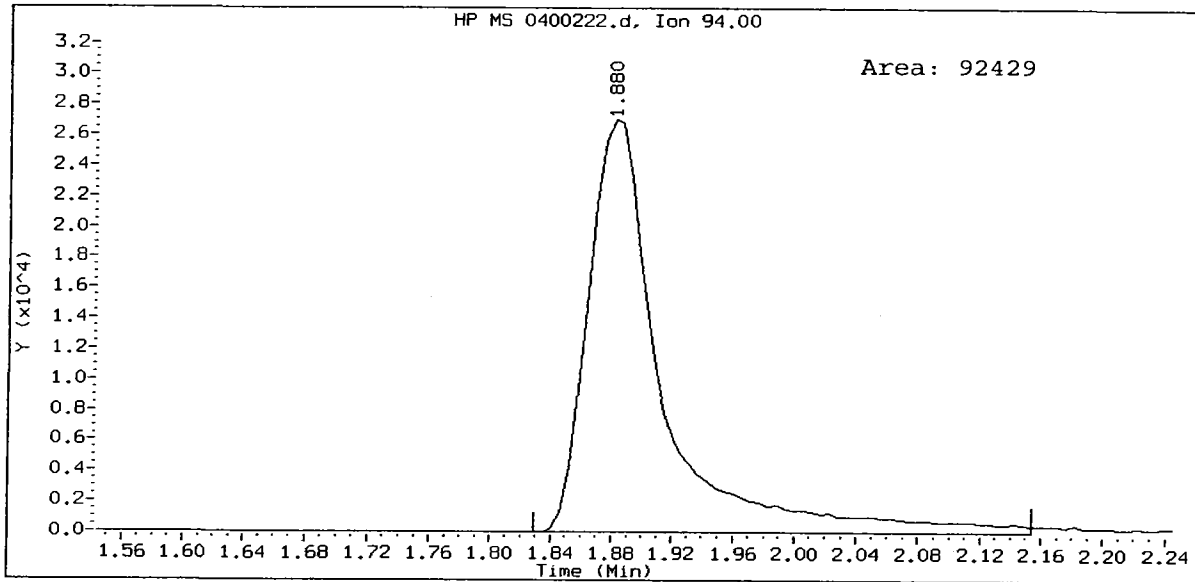


/chem1/nt10.i/22FEB10.b/0400222.d

21 04 08 05 2

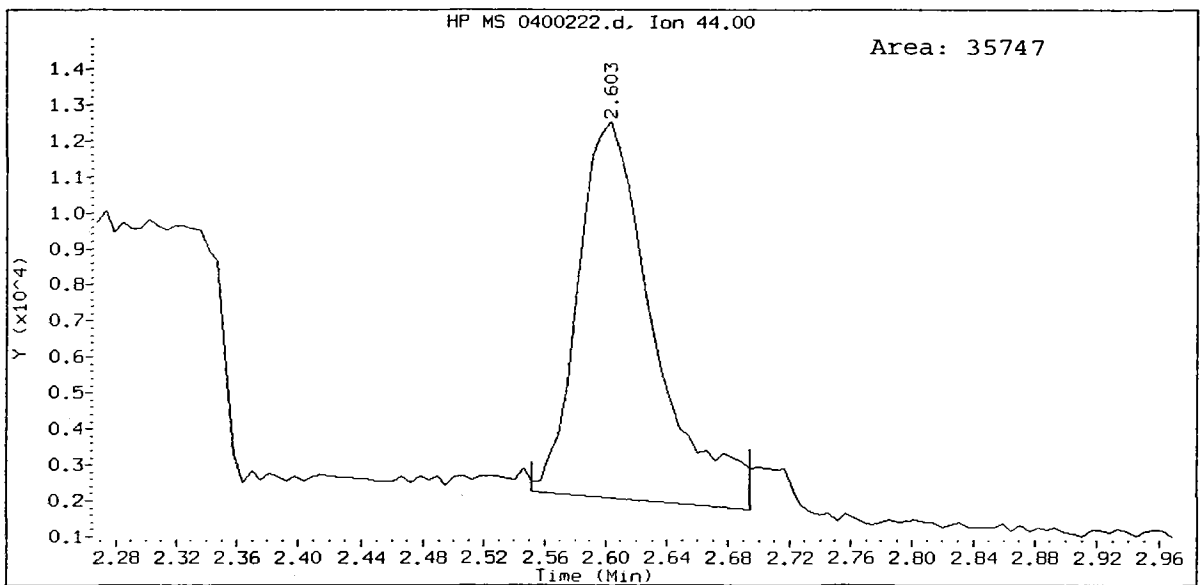
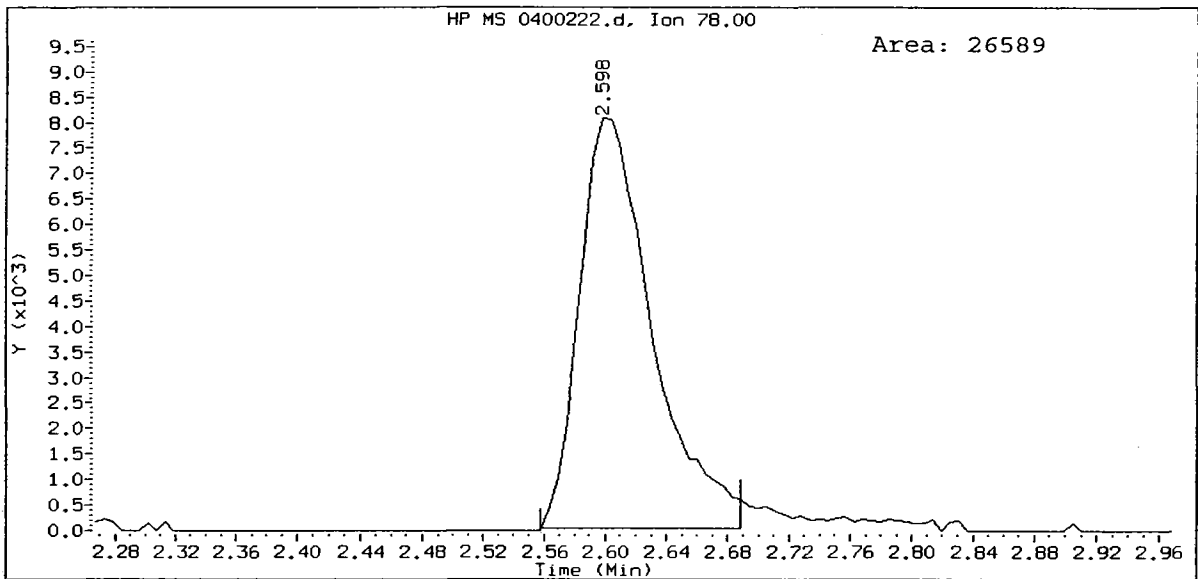
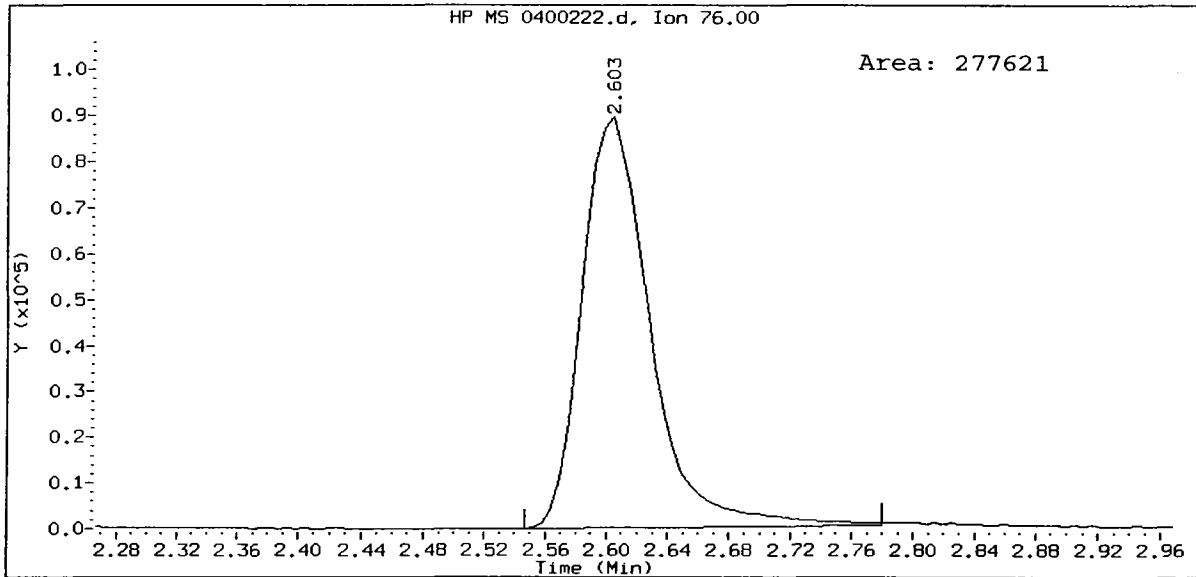


IC040, /chem1/nt10.i/22FEB10.b/0400222.d
Bromomethane Amount: 5.92

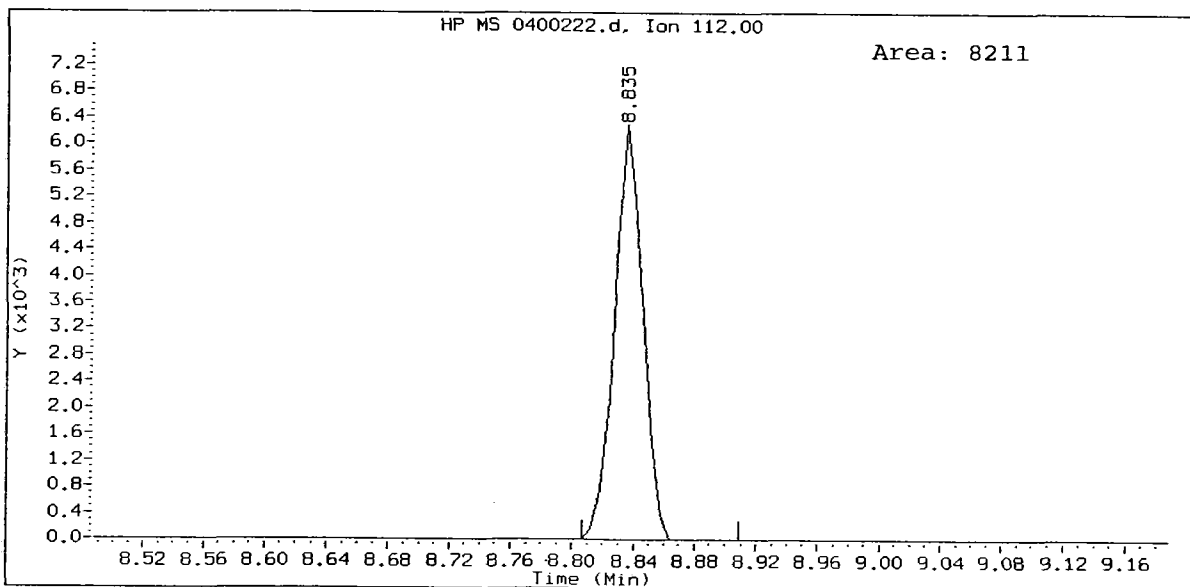
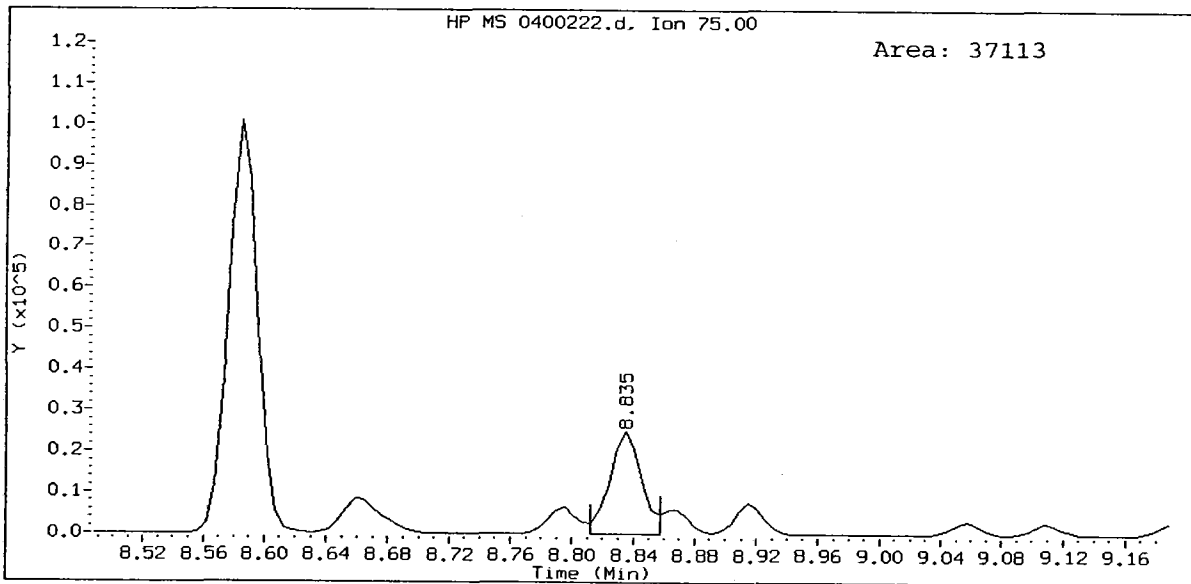
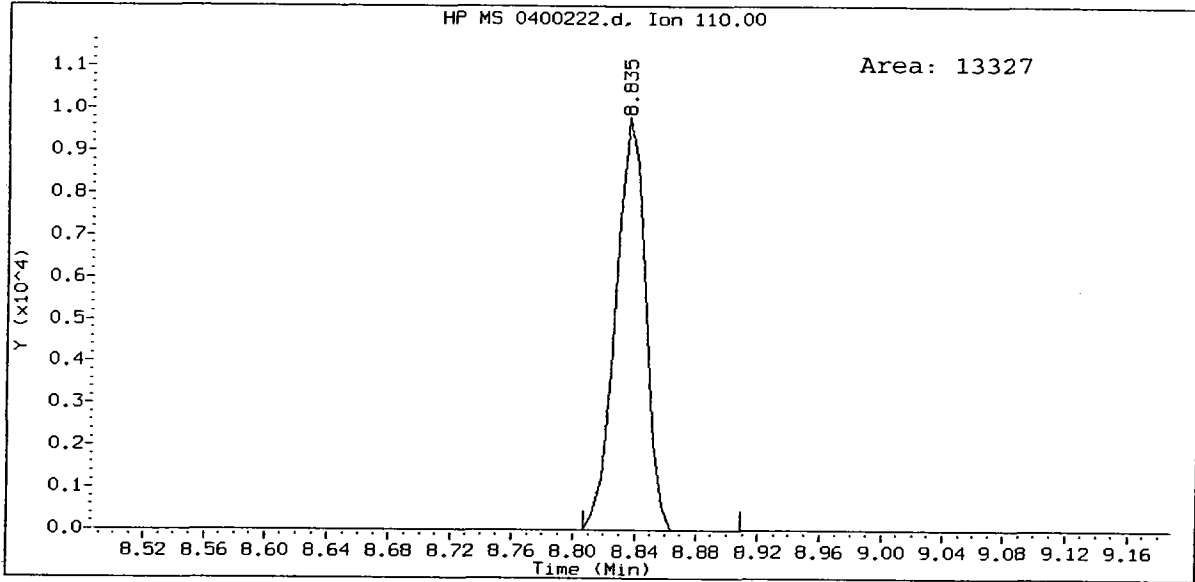


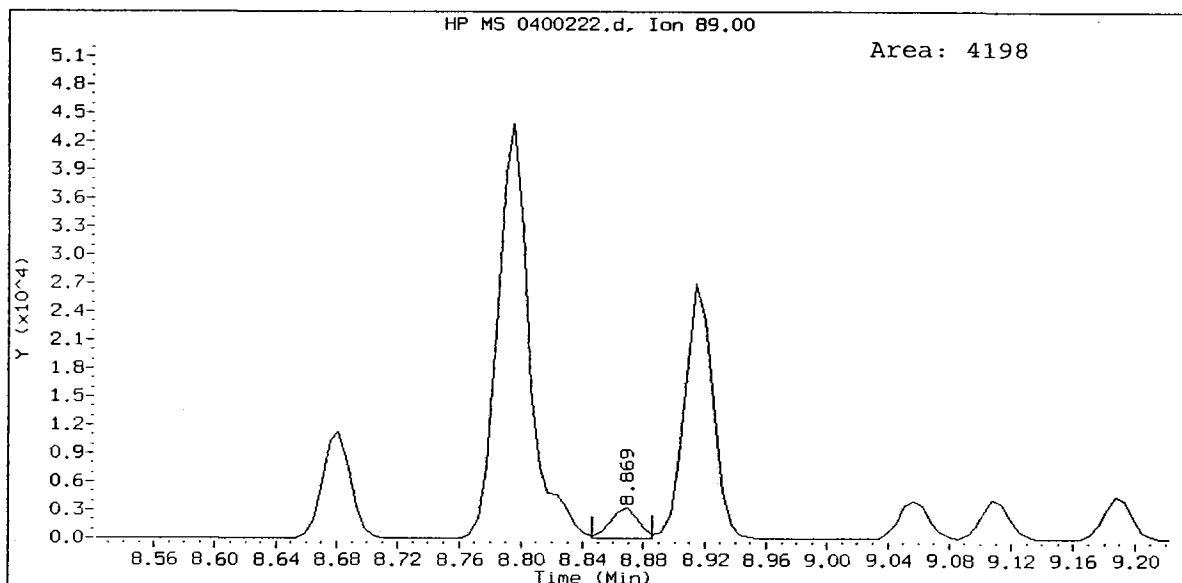
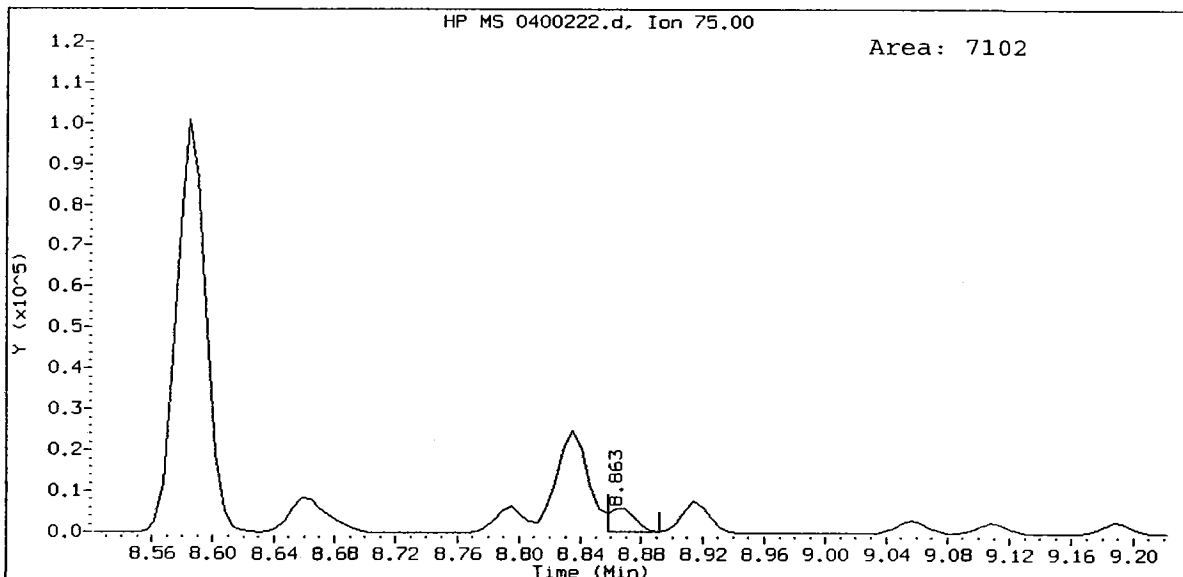
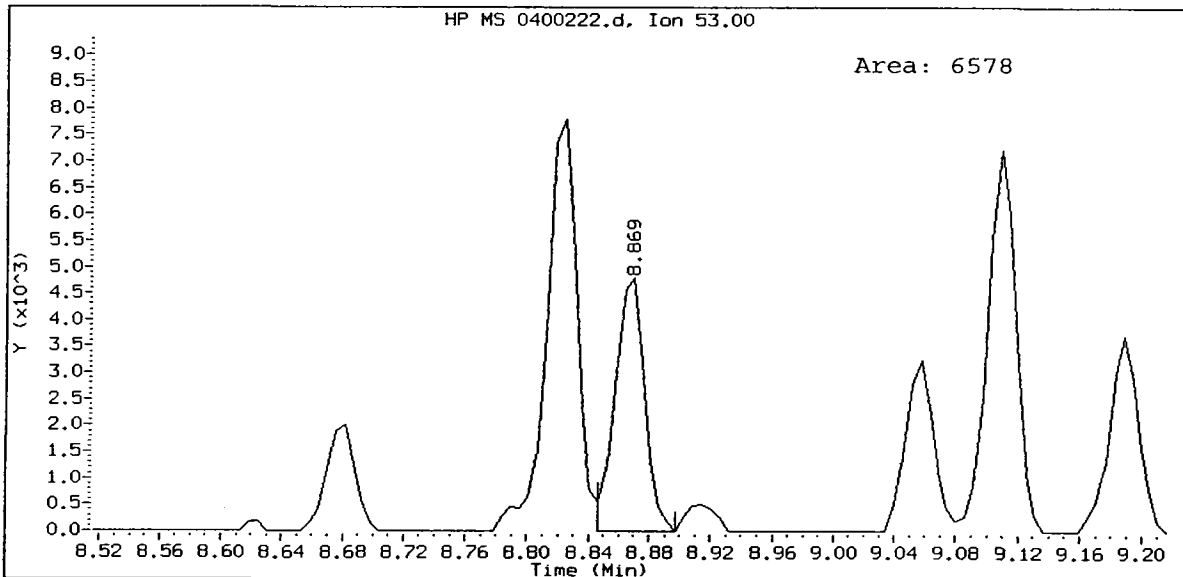
QL34: 00354

IC040, /chem1/nt10.i/22FEB10.b/0400222.d
Carbon Disulfide Amount: 4.20

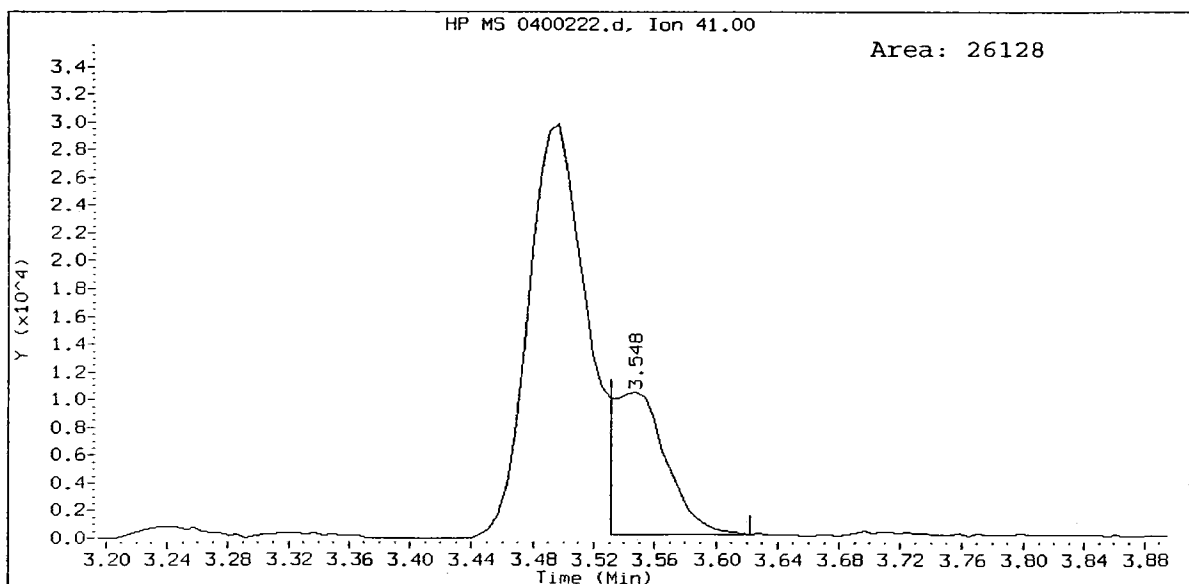
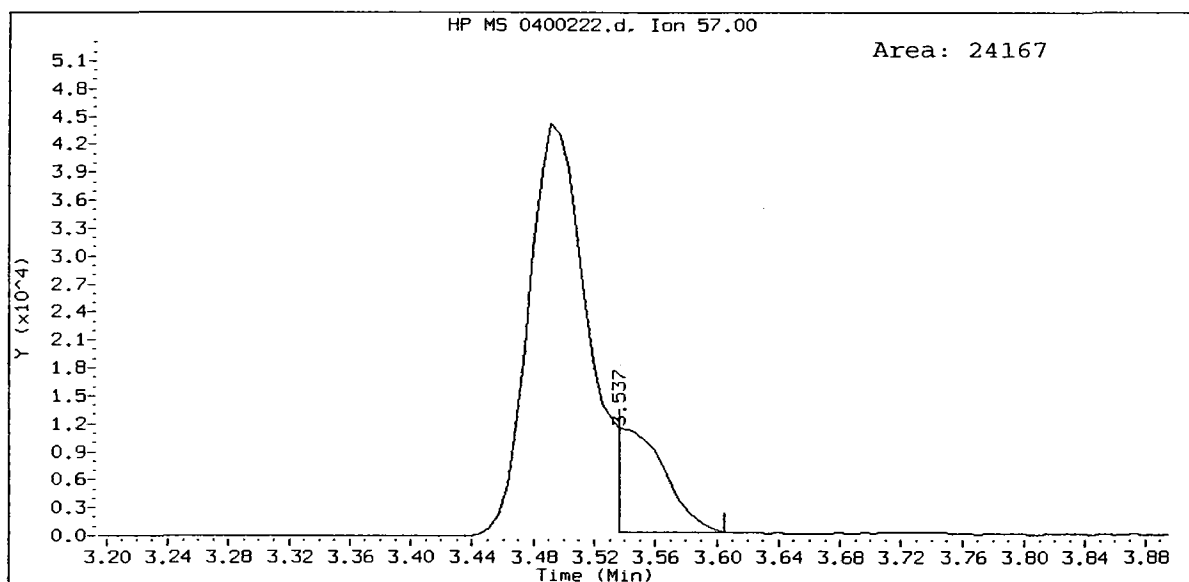
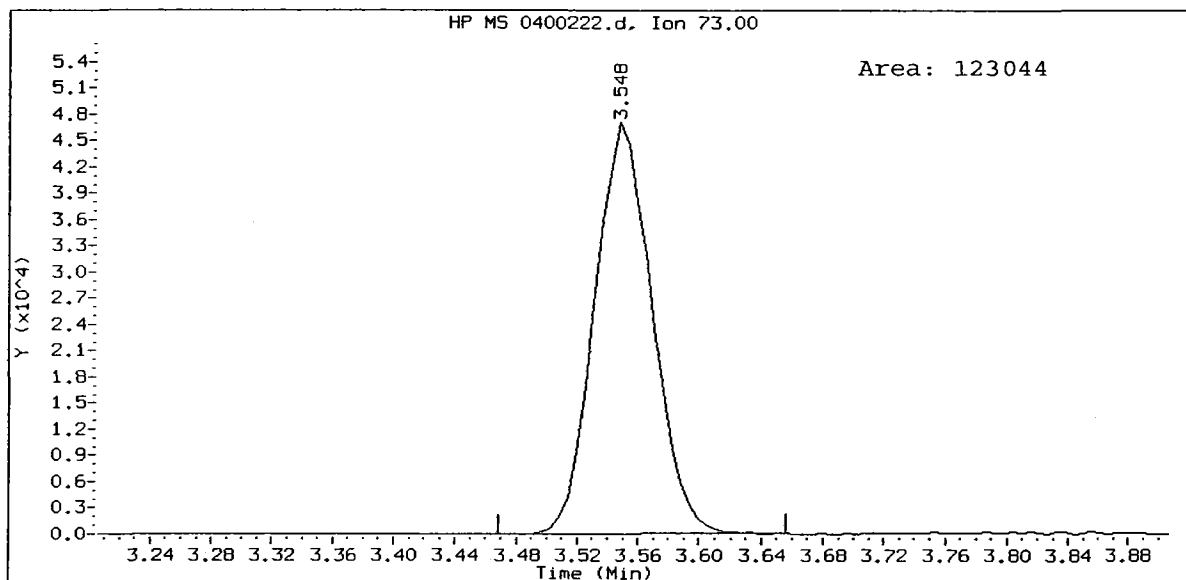


IC040, /chem1/nt10.i/22FEB10.b/0400222.d
1,2,3-Trichloropropane Amount: 4.05





IC040, /chem1/nt10.i/22FEB10.b/0400222.d
Methyl tert butyl ether Amount: 4.14



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/1000222.d
 Lab Smp Id: IC100 Client Smp ID: vstd4
 Inj Date : 22-FEB-2010 17:11
 Operator : ar Inst ID: nt10.i
 Smp Info : IC100,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.385	(0.263)	125742	10.0000	10.989
2 Chloromethane	50	1.545	1.545	(0.293)	156232	10.0000	9.128
3 Vinyl Chloride	62	1.613	1.613	(0.306)	196533	10.0000	9.657
4 Bromomethane	94	1.892	1.892	(0.359)	175949	10.0000	10.024 (M)
5 Chloroethane	64	2.000	2.000	(0.379)	148392	10.0000	9.286
6 Trichlorofluoromethane	101	2.125	2.125	(0.403)	280615	10.0000	9.810
8 Acrolein	56	2.996	2.996	(0.568)	60003	50.0000	45.686
9 112Trichloro122Trifluoroethane	101	2.666	2.666	(0.506)	185303	10.0000	9.708
10 Acetone	43	3.326	3.326	(0.631)	93829	50.0000	44.635
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	218104	10.0000	9.606
12 Bromoethane	108	2.882	2.882	(0.547)	133284	10.0000	9.619
13 Iodomethane	142	2.740	2.740	(0.520)	268459	10.0000	8.749
14 Methylene Chloride	84	3.252	3.252	(0.617)	184131	10.0000	9.736
15 Acrylonitrile	53	4.089	4.089	(0.775)	26112	10.0000	9.753
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	331725	10.0000	9.937 (M)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
17 Carbon Disulfide	76	2.615	2.615	(0.496)	727050	10.0000	9.780
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.647)	232568	10.0000	9.749
20 Vinyl Acetate	43	4.282	4.282	(0.812)	213510	10.0000	10.114
21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	390700	10.0000	10.052
22 2-Butanone	72	4.994	4.994	(0.947)	67898	50.0000	50.217
23 2,2-Dichloropropane	77	4.584	4.584	(0.869)	151716	10.0000	9.810
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	252669	10.0000	9.493
25 Pentafluorobenzene	168	5.272	5.272	(1.000)	456228	10.0000	
26 Chloroform	83	4.737	4.737	(0.899)	415651	10.0000	10.038
27 Bromochloromethane	128	4.663	4.663	(0.884)	89793	10.0000	9.932
28 Dibromofluoromethane	111	4.880	4.880	(0.926)	191401	10.0000	10.059
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	320059	10.0000	9.937
30 1,1-Dichloropropane	75	4.982	4.982	(0.880)	366440	10.0000	9.965
31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	263757	10.0000	9.805 (H)
32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	173838	10.0000	10.389
33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	222009	10.0000	9.942
34 Benzene	78	5.181	5.181	(0.916)	1038755	10.0000	9.999
35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	740651	10.0000	
36 Trichloroethene	95	5.620	5.620	(0.993)	300165	10.0000	10.784
37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	225357	10.0000	10.021
38 Bromodichloromethane	83	6.052	6.052	(1.069)	288645	10.0000	10.149
39 Dibromomethane	93	5.927	5.927	(1.047)	91451	10.0000	10.176
40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	54531	10.0000	10.215
41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	191576	50.0000	48.294
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	326765	10.0000	10.323
43 d8-Toluene	98	6.633	6.633	(1.172)	893111	10.0000	9.896
44 Toluene	92	6.667	6.667	(1.178)	702188	10.0000	9.910
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	243835	10.0000	10.477
46 2-Hexanone	43	7.526	7.526	(0.975)	296650	50.0000	49.542
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	139353	10.0000	10.100
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	250657	10.0000	10.192
49 Tetrachloroethene	166	6.928	6.928	(0.898)	295467	10.0000	9.904
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	168144	10.0000	10.198
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	126367	10.0000	10.312
52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	686240	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	719580	10.0000	9.977
54 Ethyl Benzene	91	7.748	7.748	(1.004)	1390970	10.0000	10.164
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	220751	10.0000	10.003
56 m,p-xylene	106	7.850	7.850	(1.017)	1032920	20.0000	20.027
58 o-Xylene	106	8.158	8.158	(1.057)	469744	10.0000	10.049
59 Styrene	104	8.198	8.198	(1.062)	753200	10.0000	10.240
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1250167	10.0000	9.475
61 Bromoform	173	8.215	8.215	(0.873)	74729	10.0000	9.671
62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.928)	108116	10.0000	9.542 (H)
63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	287732	10.0000	10.335
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	33526	10.0000	9.793
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	19128	10.0000	8.877

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	1449520	10.0000	9.621 (H)
67 Bromobenzene	156	8.664	8.664	(0.921)	243258	10.0000	9.628
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	949287	10.0000	9.738
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	906963	10.0000	9.584 (H)
70 4-Chloro Toluene	91	8.915	8.915	(0.947)	796063	10.0000	9.711
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	786346	10.0000	9.545
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	913040	10.0000	9.898 (H)
73 S-Butyl Benzene	105	9.188	9.188	(0.976)	1175090	10.0000	9.702 (H)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	907549	10.0000	9.827
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	417695	10.0000	9.856
76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	249963	10.0000	
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	394618	10.0000	9.759
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	773806	10.0000	9.804
79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	190199	10.0000	9.784
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	303682	10.0000	9.526
81 1,2-Dibromo 3-Chloropropane	75	10.355	10.355	(1.100)	10239	10.0000	10.129
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.156)	145079	10.0000	9.336
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	86817	10.0000	9.387
84 Naphthalene	128	11.140	11.140	(1.184)	200943	10.0000	9.515
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	103726	10.0000	9.846

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 1000222.d
 Lab Smp Id: IC100
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 22-FEB-2010
 Calibration Time: 17:11
 Client Smp ID: vstd4
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

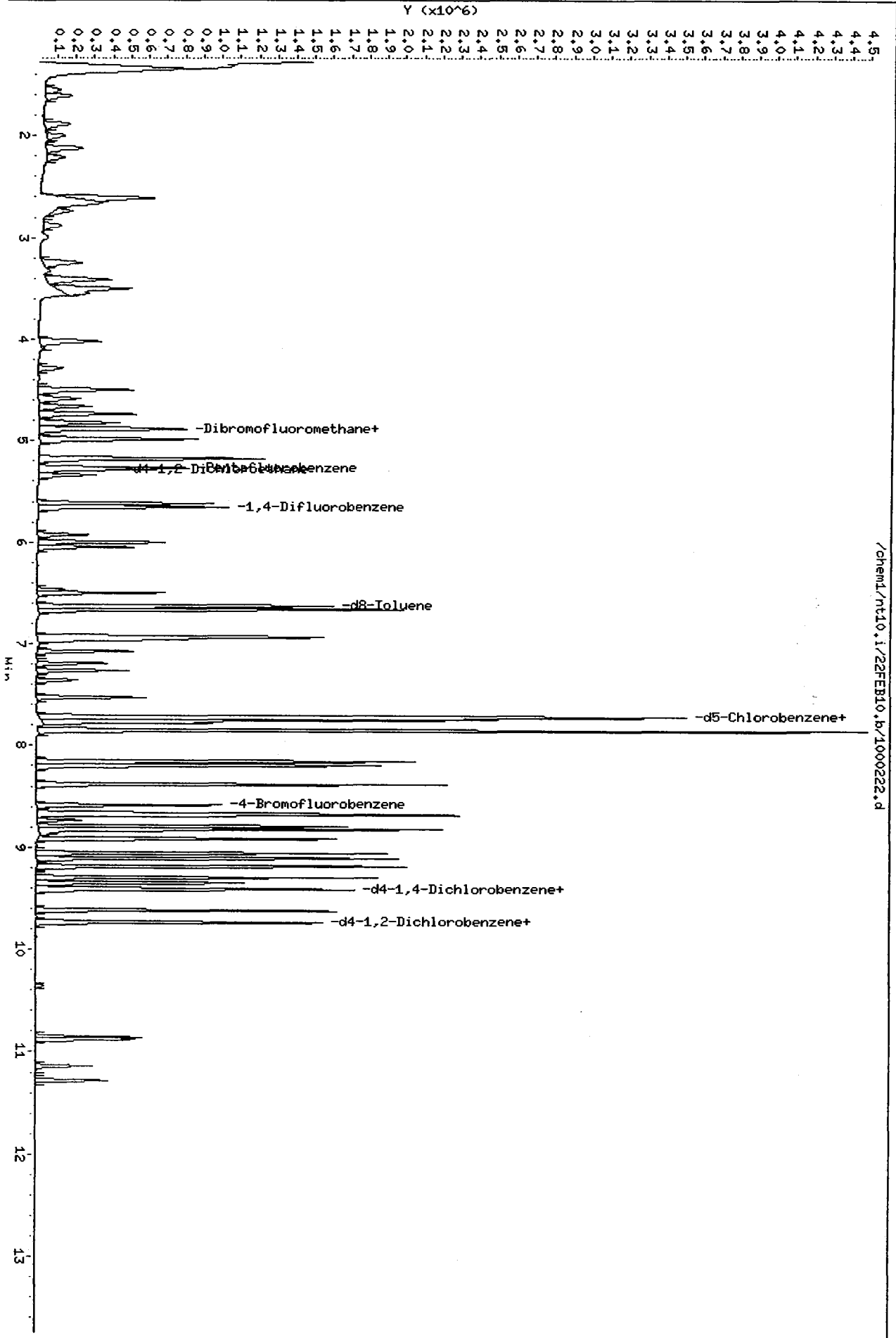
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	456228	0.00
35 1,4-Difluorobenze	740651	370326	1481302	740651	0.00
52 d5-Chlorobenzene	686240	343120	1372480	686240	0.00
76 d4-1,4-Dichlorobe	249963	124982	499926	249963	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

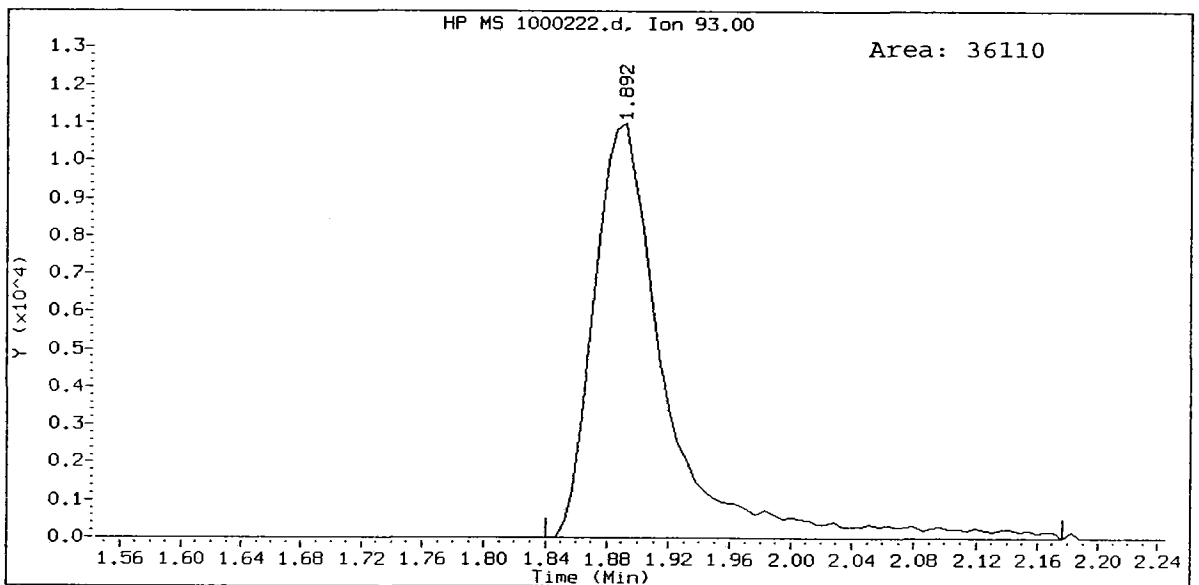
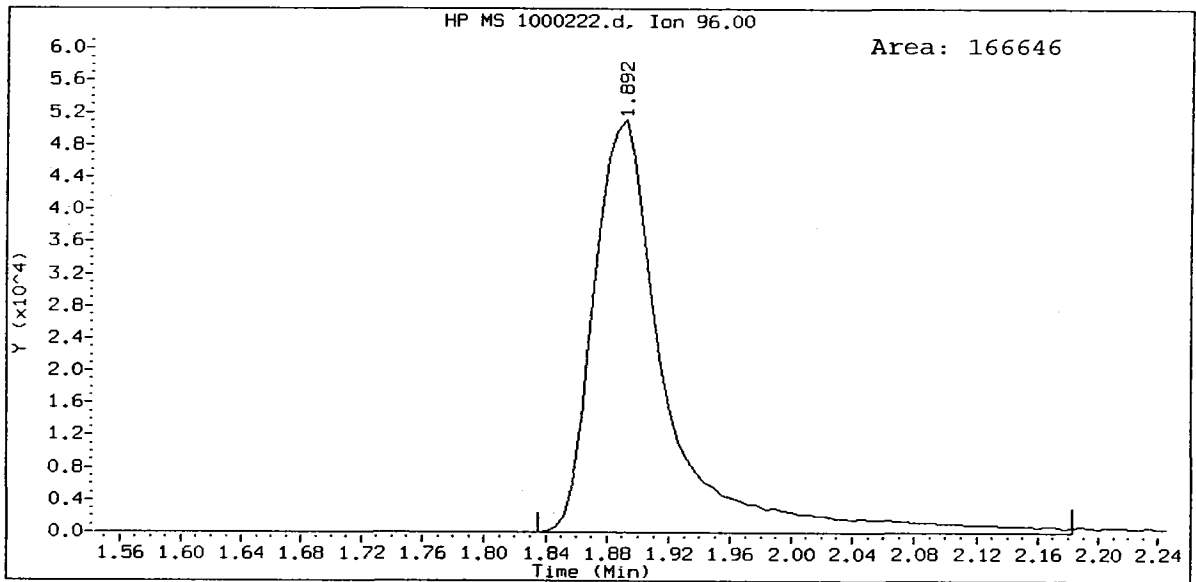
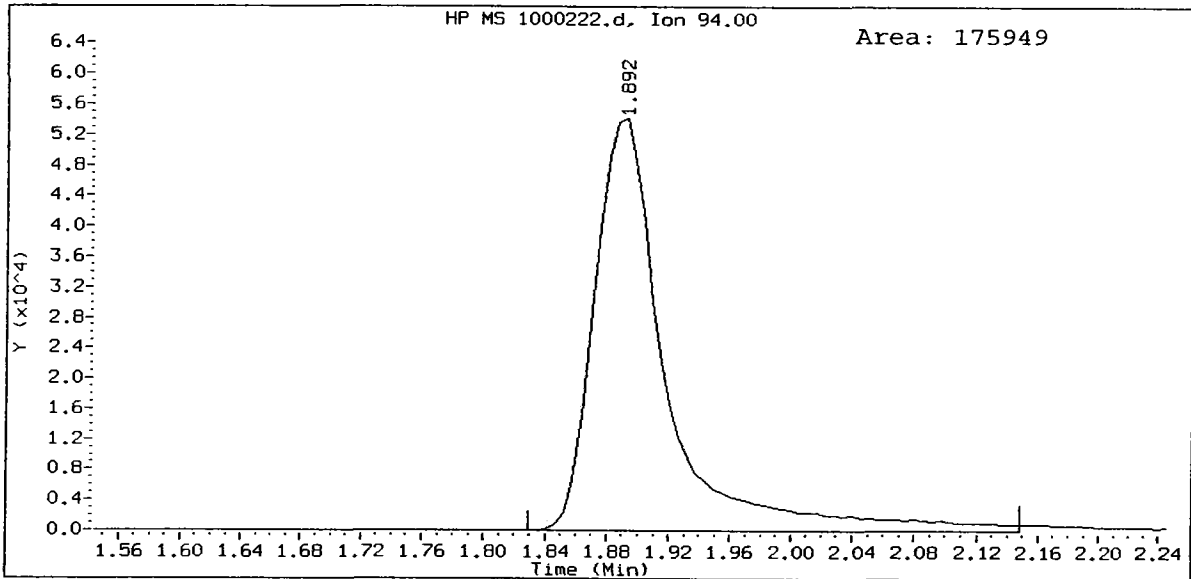
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Date : 22-FEB-2010 17:11
Client ID: vstd4
Sample Info: IC100,10,10,0
Column phase: RTX502.2

Instrument: nt10.1
Operator: ar
Column diameter: 0.18



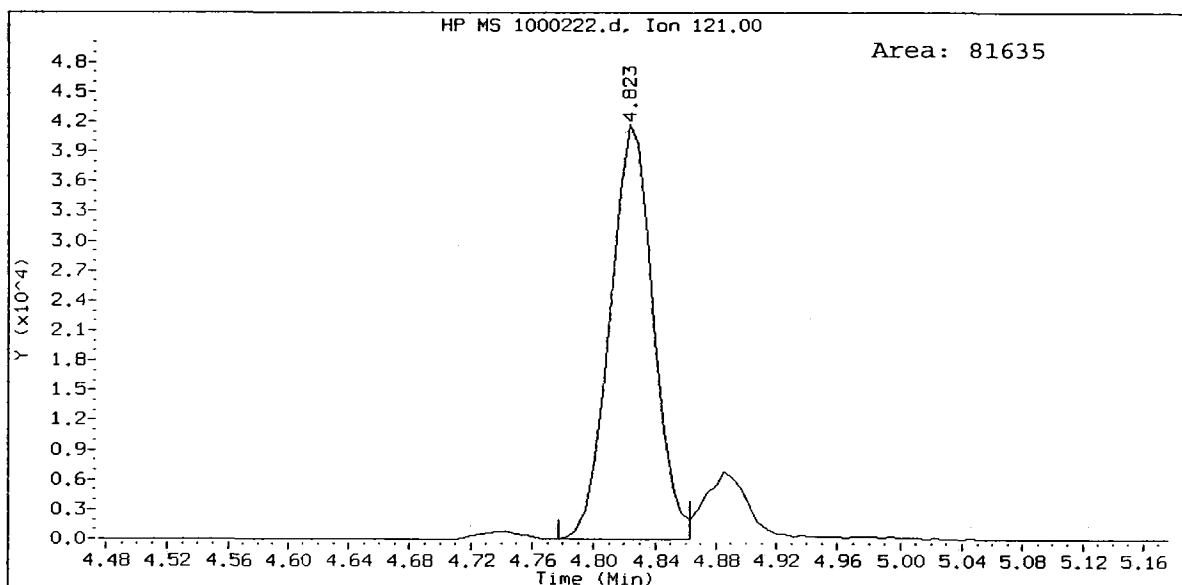
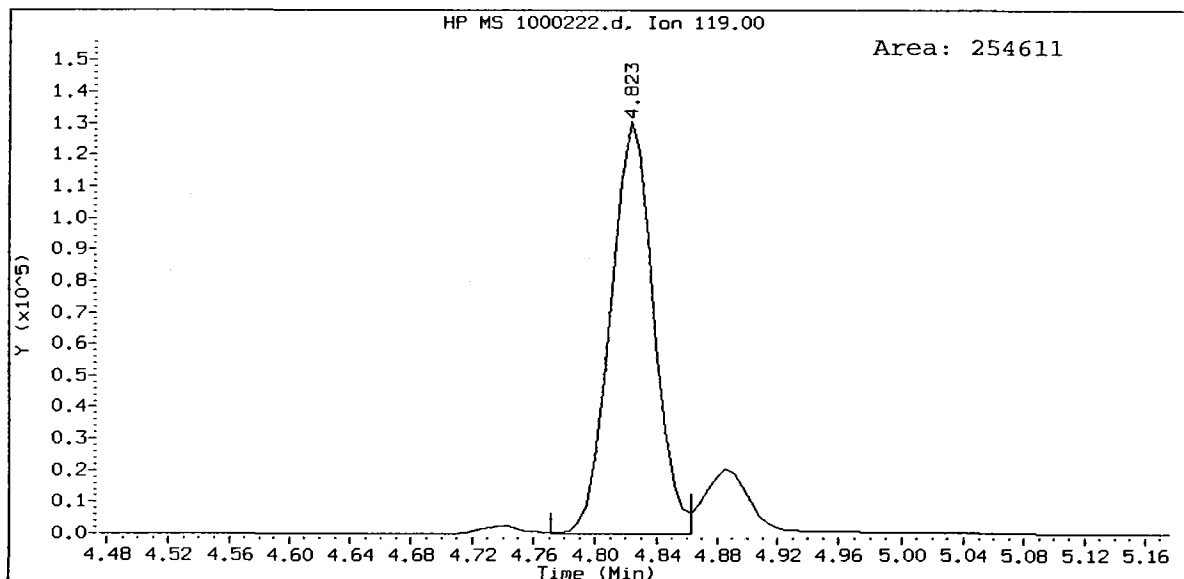
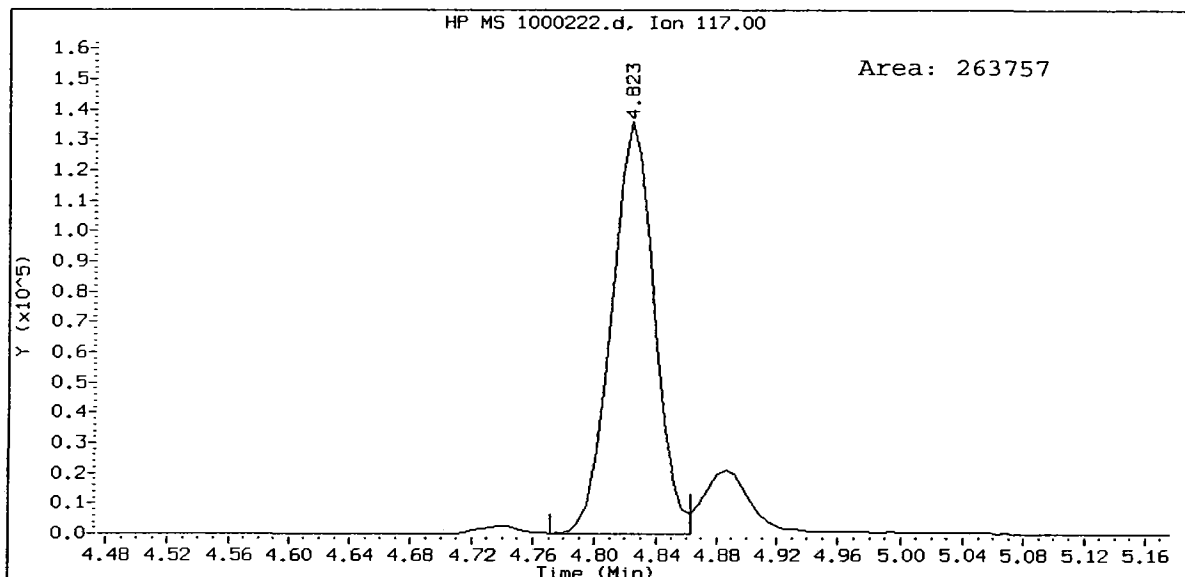
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IC100, /chem1/nt10.i/22FEB10.b/1000222.d
Bromomethane Amount: 10.02

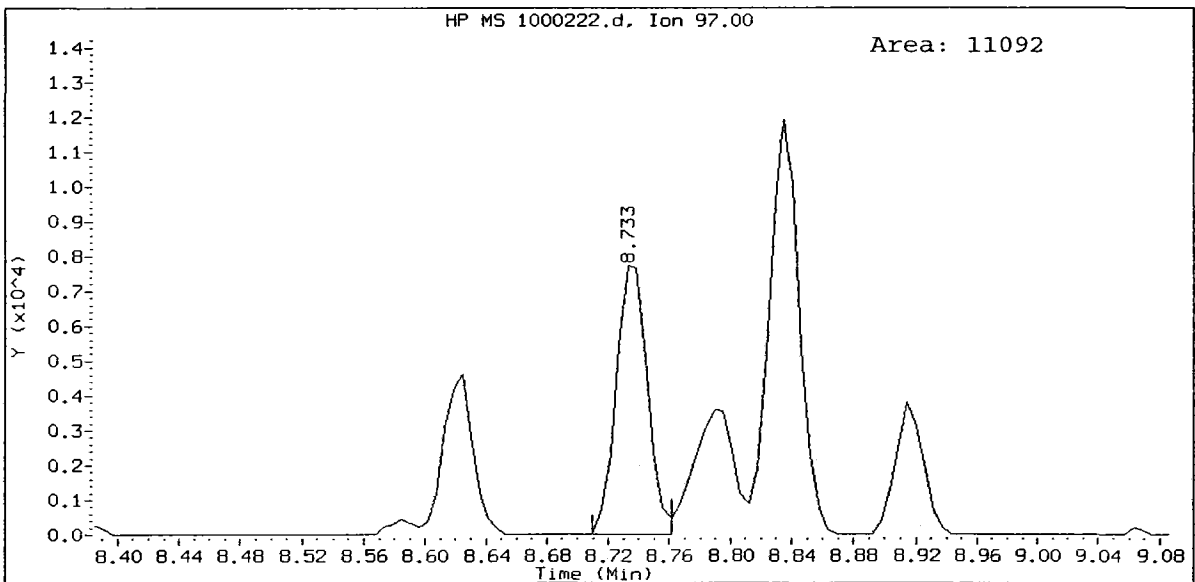
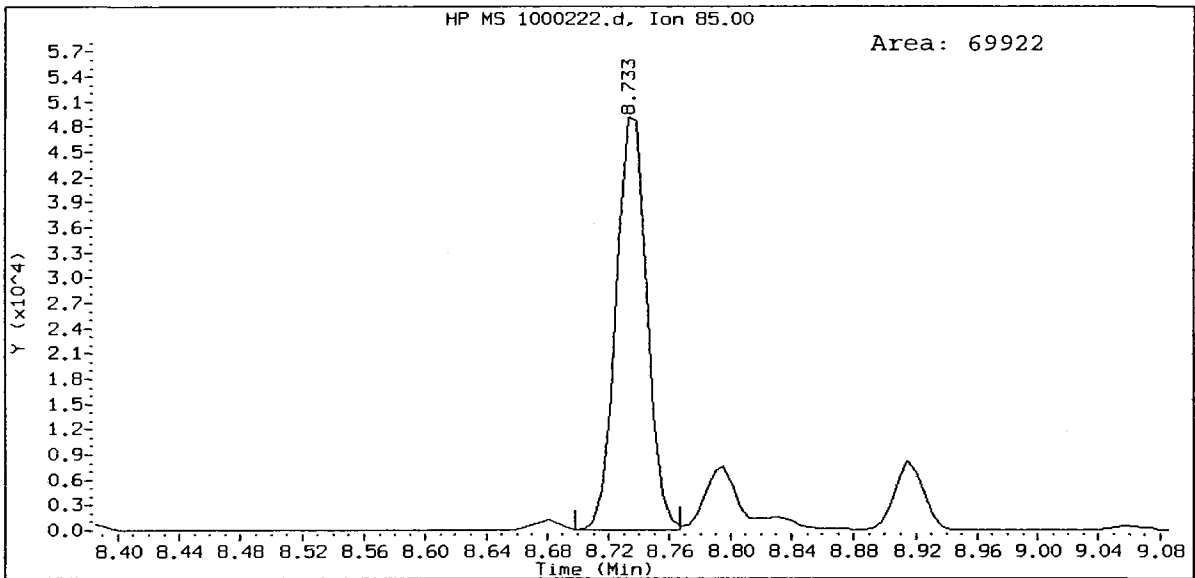
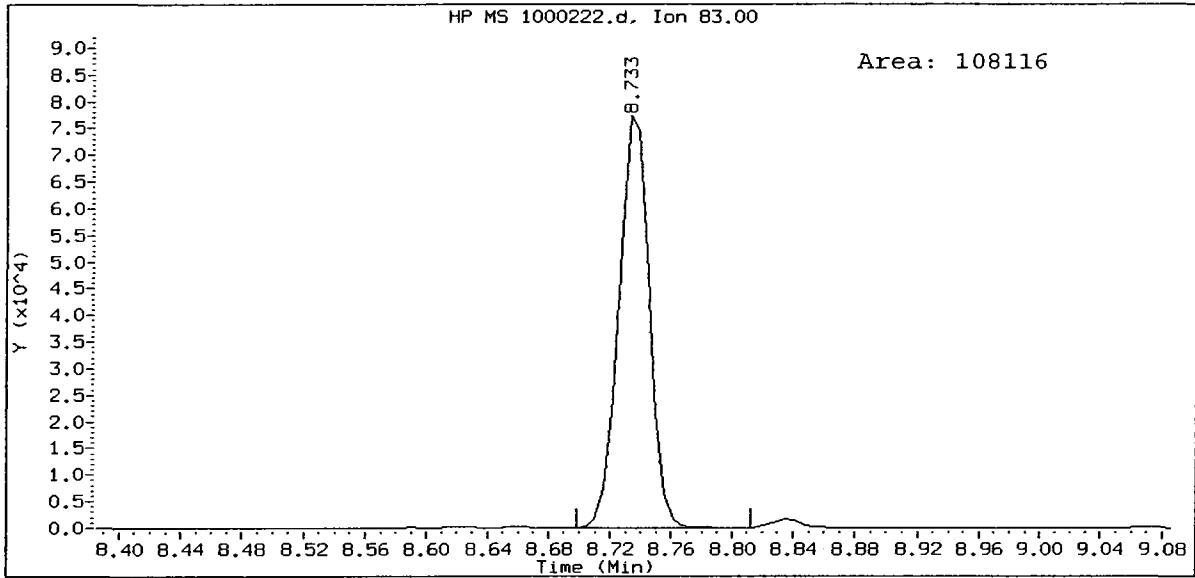


QL34: 00364

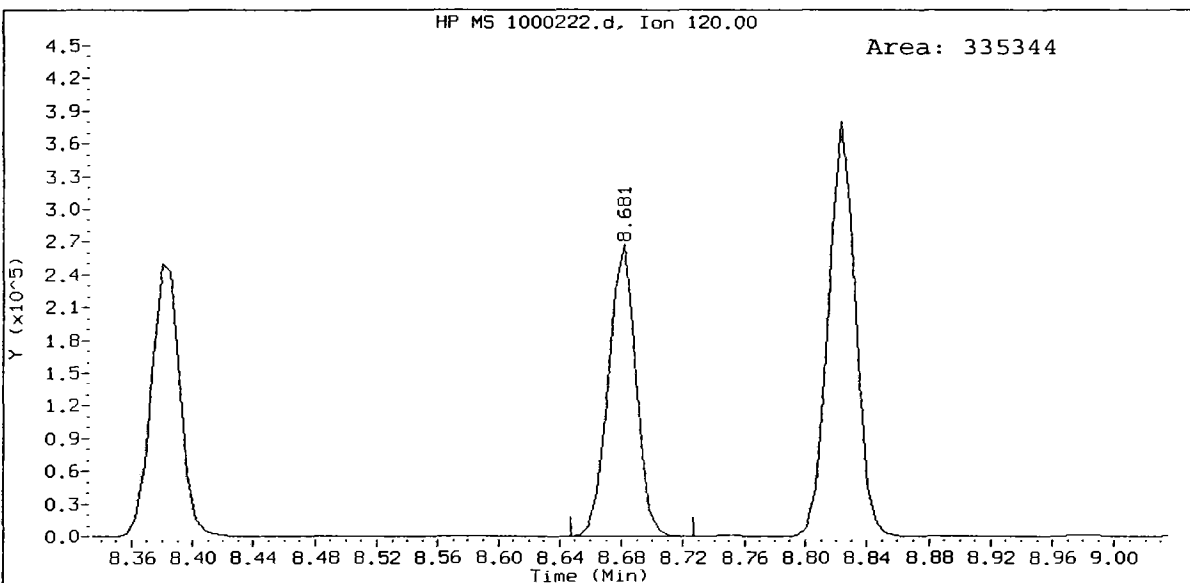
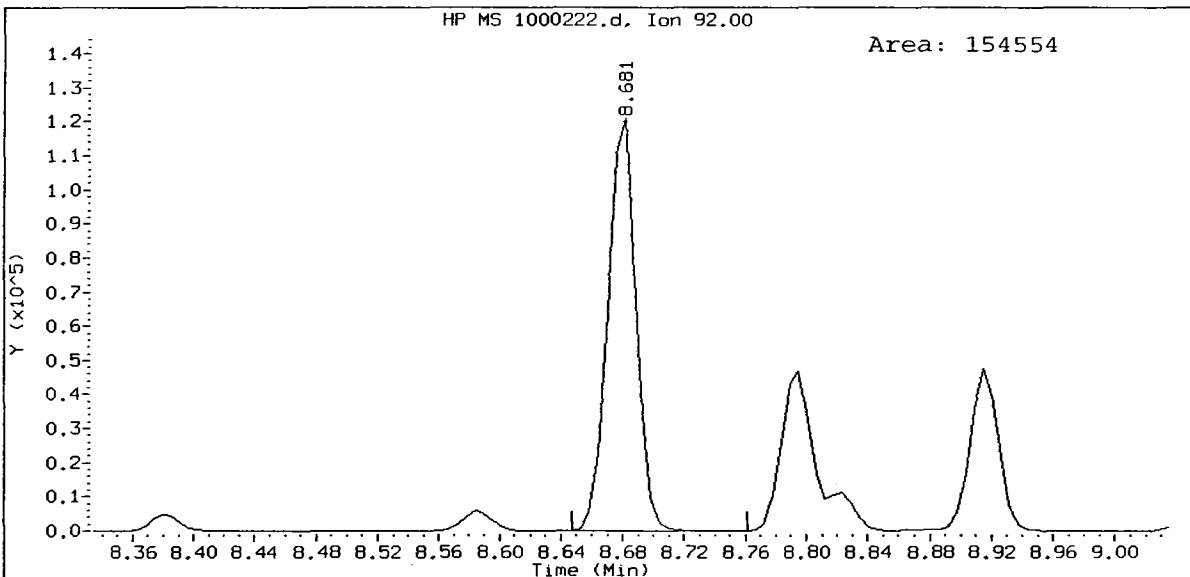
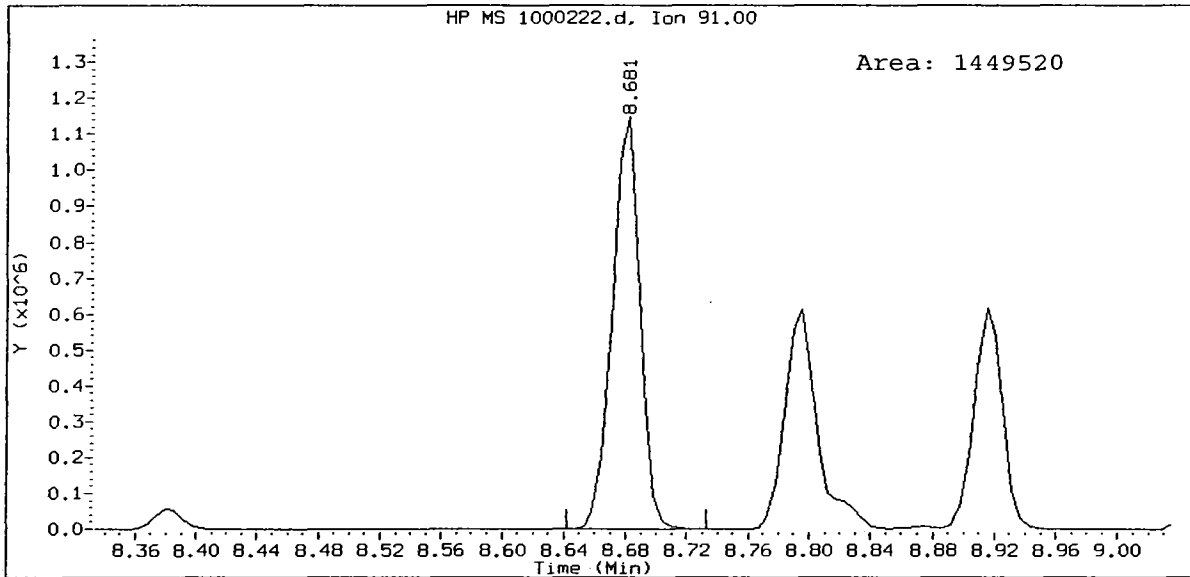
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Carbon Tetrachloride Amount: 9.80

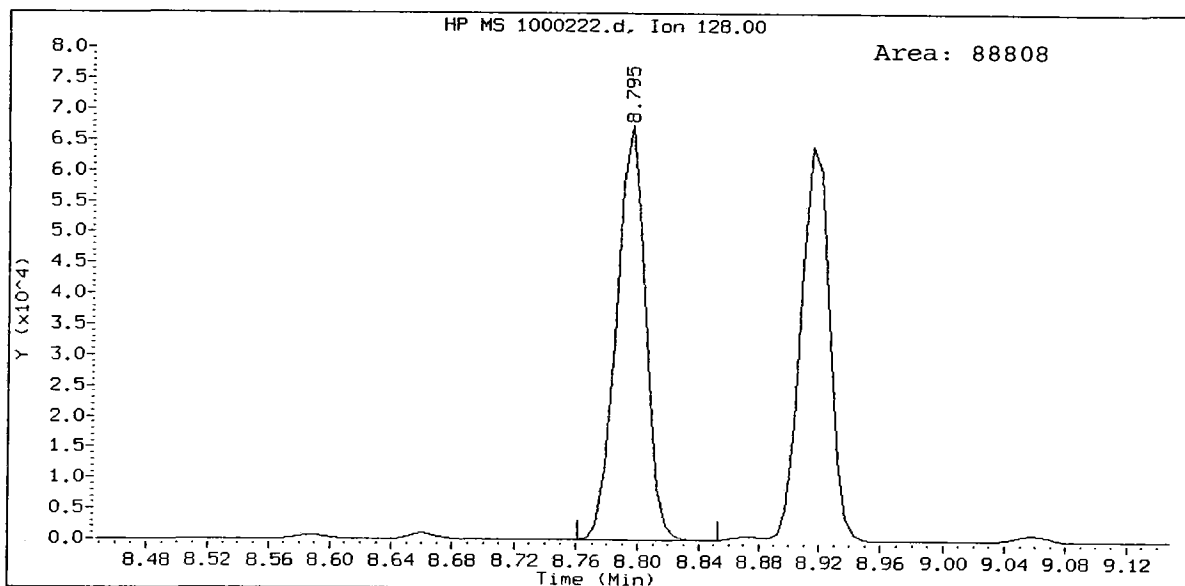
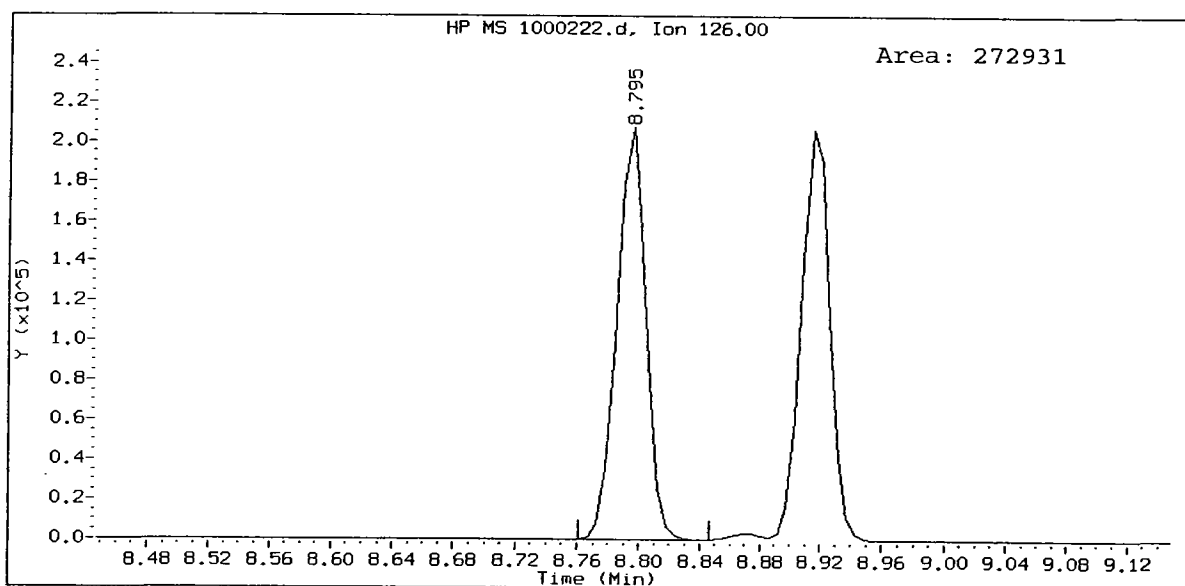
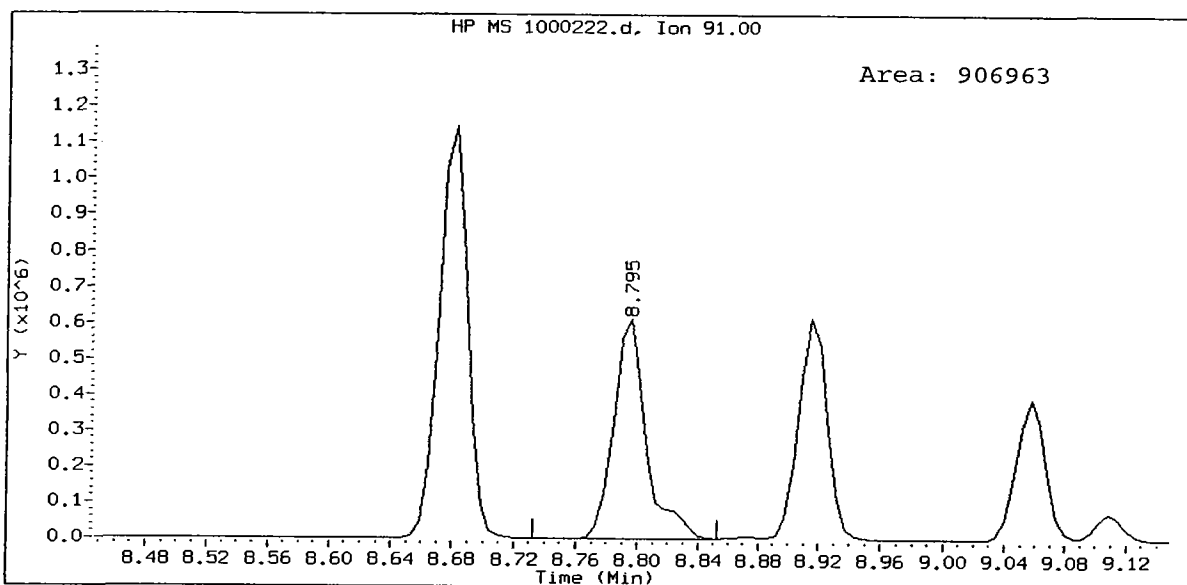


IC100, /chem1/nt10.i/22FEB10.b/1000222.d
1,1,2,2-Tetrachloroethane Amount: 9.54

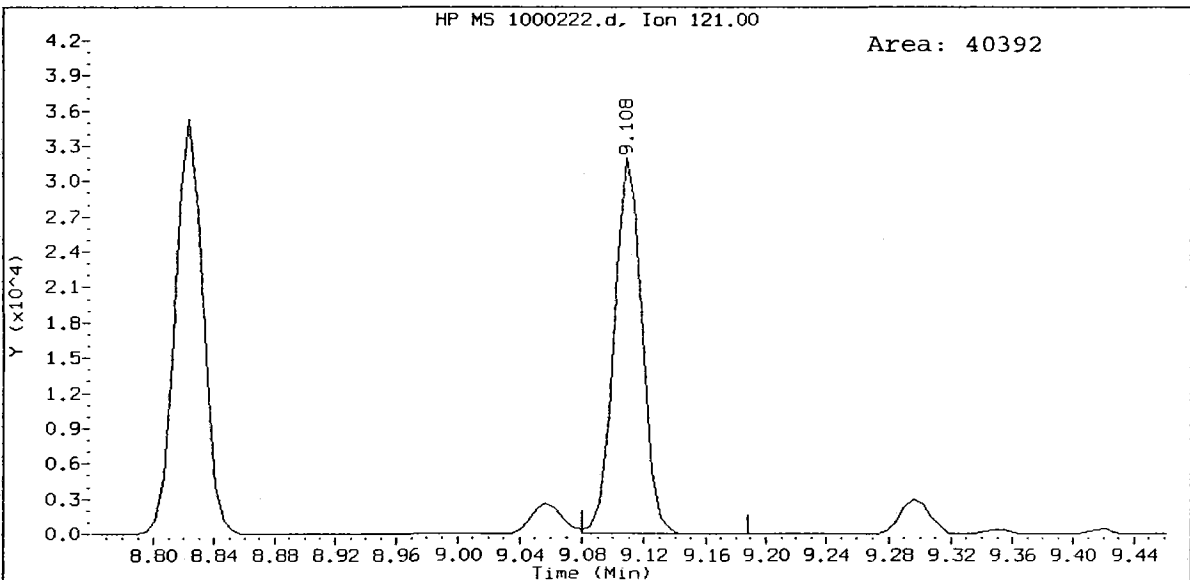
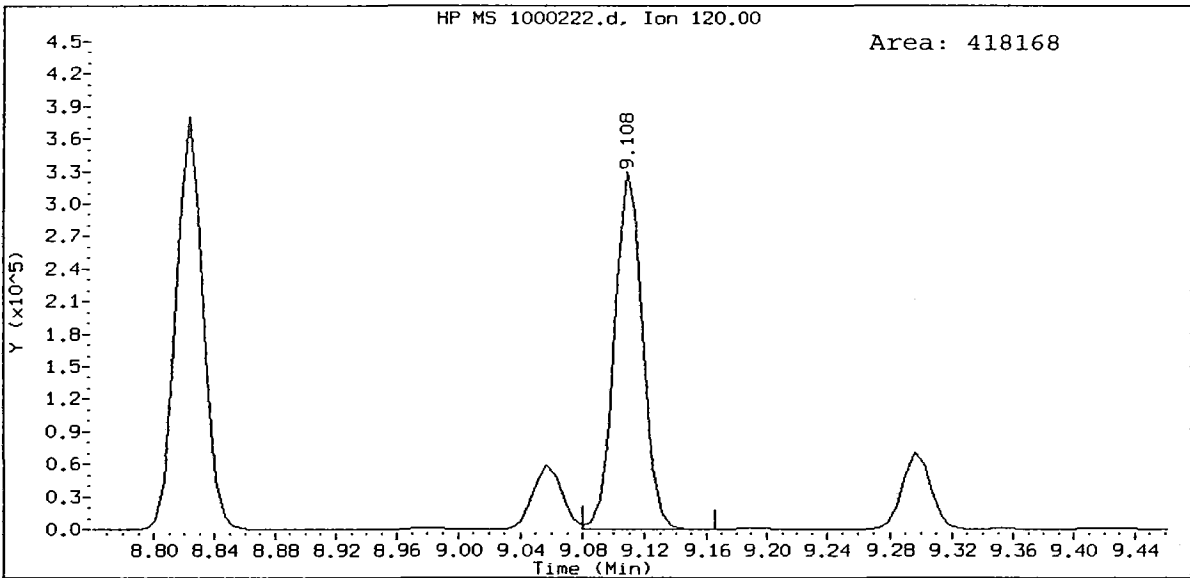
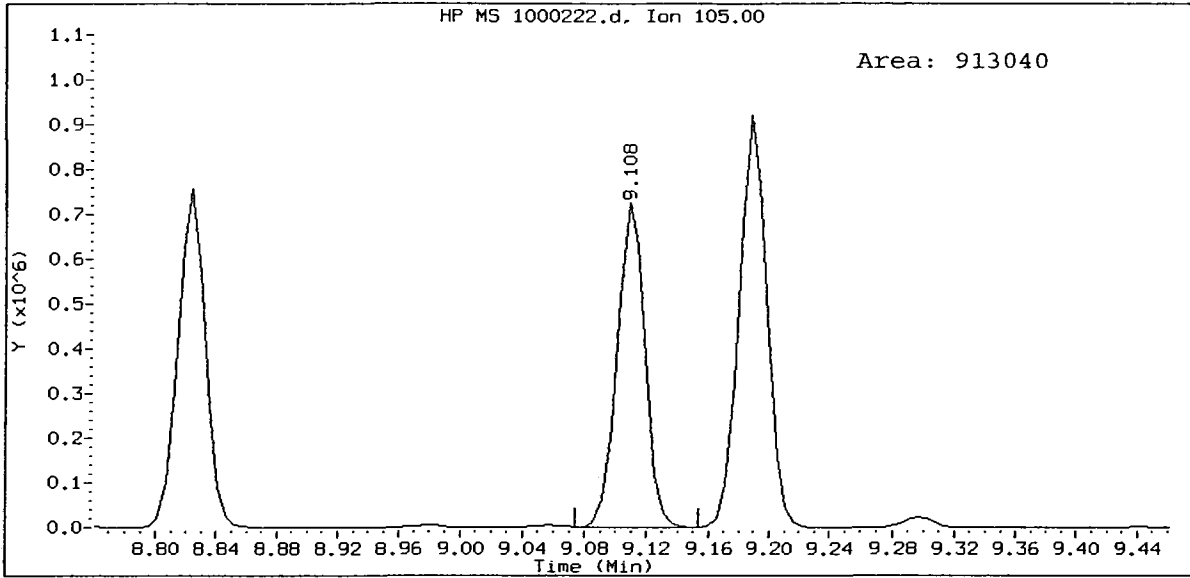


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N-Propyl Benzene Amount: 9.62

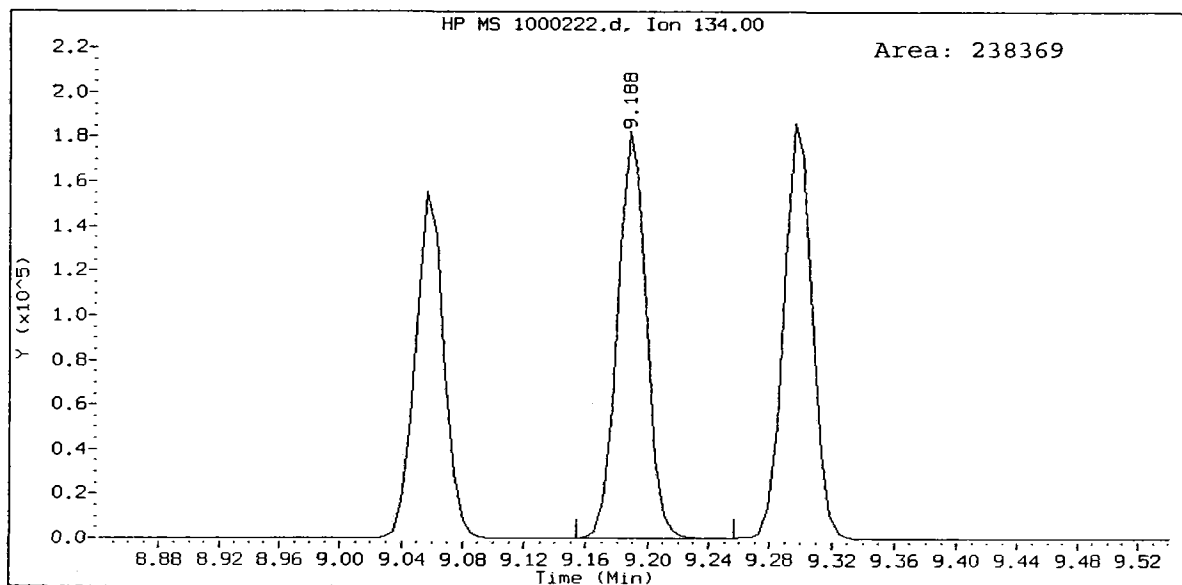
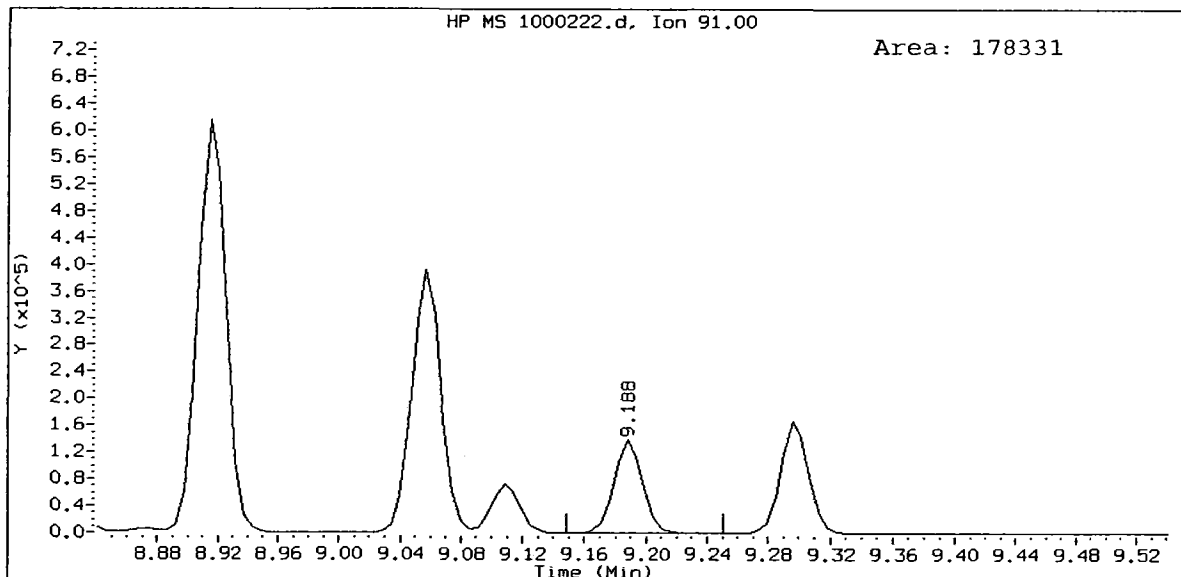
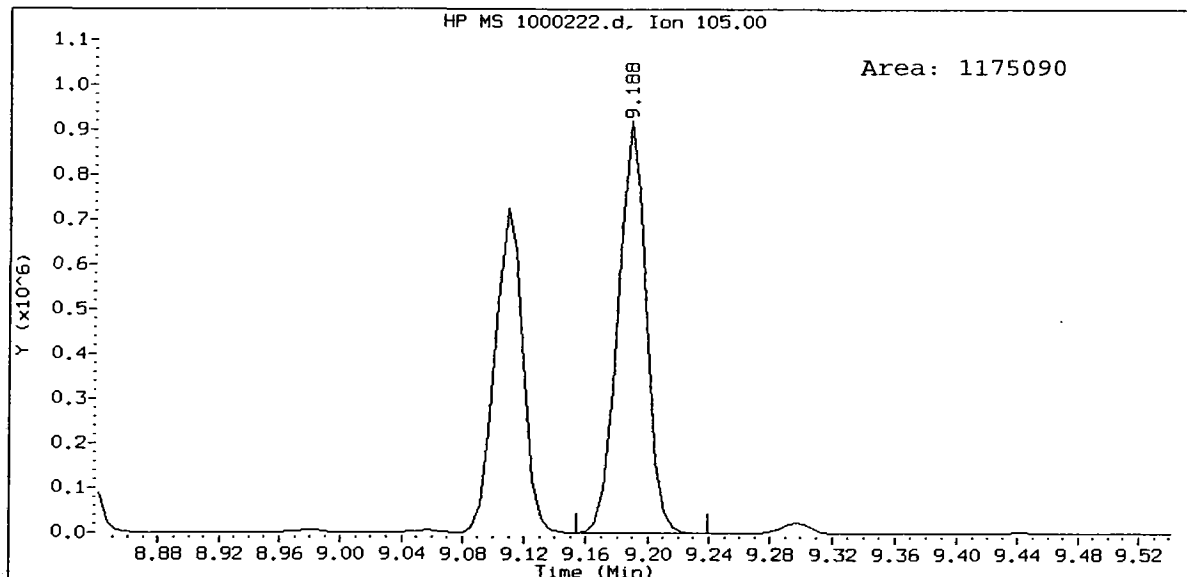




IC100, /chem1/nt10.i/22FEB10.b/1000222.d
1,2,4-Trimethylbenzene Amount: 9.90

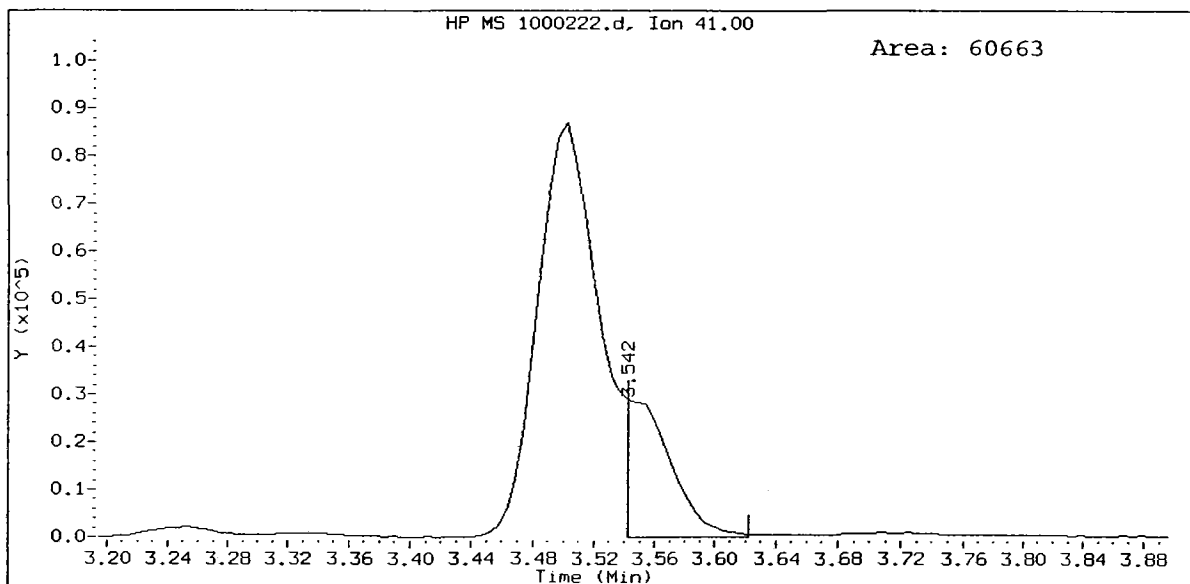
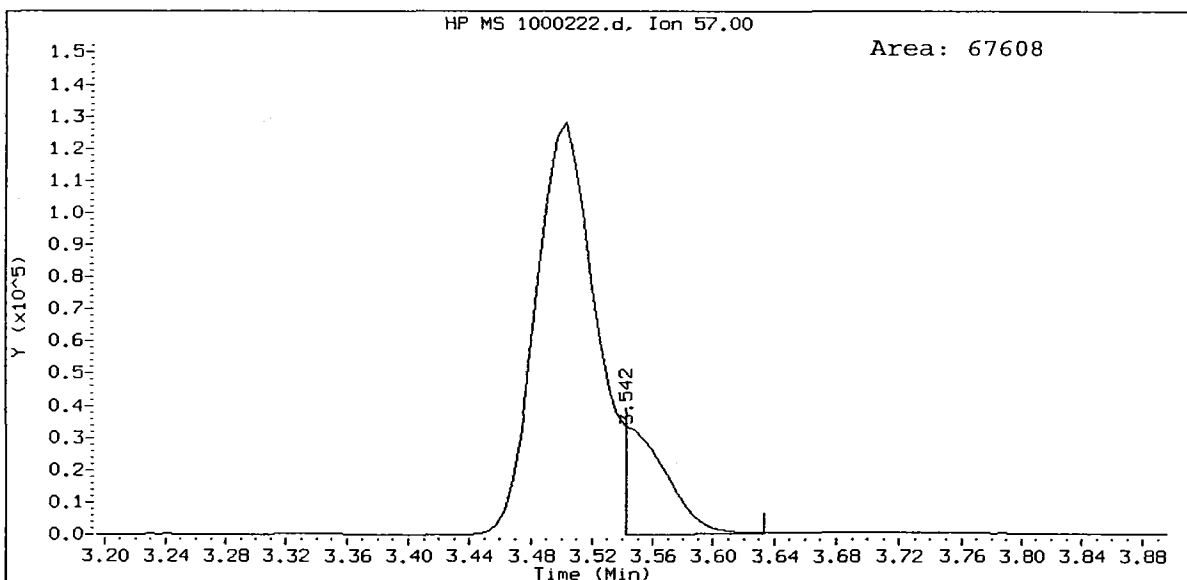
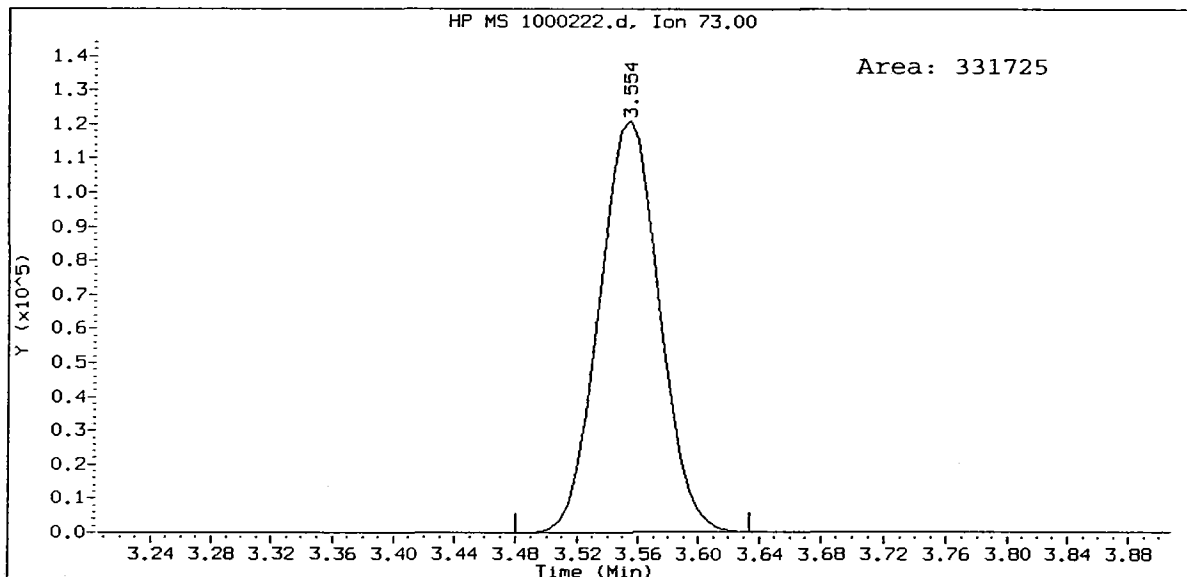


IC100, /chem1/nt10.i/22FEB10.b/1000222.d
S-Butyl Benzene Amount: 9.70



QL34: 00370

IC100, /chem1/nt10.i/22FEB10.b/1000222.d
Methyl tert butyl ether Amount: 9.94



QL34: 00371

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/2000222.d
 Lab Smp Id: IC200 Client Smp ID: vstd6
 Inj Date : 22-FEB-2010 16:41
 Operator : ar Inst ID: nt10.i
 Smp Info : IC200,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.385	(0.262)	239933	20.0000	21.200
2 Chloromethane	50	1.539	1.545	(0.292)	304287	20.0000	17.974 (M)
3 Vinyl Chloride	62	1.607	1.613	(0.305)	391841	20.0000	19.468
4 Bromomethane	94	1.886	1.892	(0.358)	336901	20.0000	19.406 (M)
5 Chloroethane	64	1.994	2.000	(0.379)	299288	20.0000	18.935
6 Trichlorofluoromethane	101	2.119	2.125	(0.402)	544504	20.0000	19.246
8 Acrolein	56	2.990	2.996	(0.568)	122852	100.000	94.573
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.660	2.666	(0.505)	358432	20.0000	18.985
10 Acetone	43	3.326	3.326	(0.632)	185062	100.000	89.008
11 1,1-Dichloroethene	96	2.603	2.609	(0.494)	411740	20.0000	18.336
12 Bromoethane	108	2.876	2.882	(0.546)	260353	20.0000	18.998
13 Iodomethane	142	2.740	2.740	(0.520)	535428	20.0000	17.642
14 Methylene Chloride	84	3.246	3.252	(0.616)	349561	20.0000	18.687
15 Acrylonitrile	53	4.083	4.089	(0.775)	51870	20.0000	19.589
16 Methyl tert butyl ether	73	3.548	3.554	(0.674)	641872	20.0000	19.440 (M)

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
=====	====	==	=====	=====	=====	=====	=====
17 Carbon Disulfide	76	2.609	2.615	(0.495)	1394553	20.0000	18.966
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.648)	455222	20.0000	19.293
20 Vinyl Acetate	43	4.282	4.282	(0.813)	423093	20.0000	20.263
21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	755790	20.0000	19.661
22 2-Butanone	72	4.993	4.994	(0.948)	133736	100.000	100.00
23 2,2-Dichloropropane	77	4.584	4.584	(0.870)	311230	20.0000	20.347
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.854)	489356	20.0000	18.589
25 Pentafluorobenzene	168	5.267	5.272	(1.000)	451239	10.0000	
26 Chloroform	83	4.737	4.737	(0.900)	799079	20.0000	19.511
27 Bromochloromethane	128	4.663	4.663	(0.885)	177302	20.0000	19.828
28 Dibromofluoromethane	111	4.880	4.880	(0.927)	191465	10.0000	10.174
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.928)	622355	20.0000	19.536
30 1,1-Dichloropropene	75	4.982	4.982	(0.881)	719383	20.0000	19.802
31 Carbon Tetrachloride	117	4.823	4.823	(0.853)	525977	20.0000	19.790
32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.004)	165971	10.0000	10.029
33 1,2-Dichloroethane	62	5.341	5.341	(0.945)	427929	20.0000	19.396
34 Benzene	78	5.176	5.181	(0.915)	2002367	20.0000	19.510
35 1,4-Difluorobenzene	114	5.654	5.659	(1.000)	731744	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.994)	567340	20.0000	20.630
37 1,2-Dichloropropane	63	6.001	6.007	(1.061)	439042	20.0000	19.760
38 Bromodichloromethane	83	6.052	6.052	(1.070)	568082	20.0000	20.217
39 Dibromomethane	93	5.927	5.927	(1.048)	177500	20.0000	19.991
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.144)	107595	20.0000	20.400
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.228)	385820	100.000	98.444
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.150)	656042	20.0000	20.979
43 d8-Toluene	98	6.632	6.633	(1.173)	889807	10.0000	9.980
44 Toluene	92	6.667	6.667	(1.179)	1372714	20.0000	19.609
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.232)	495274	20.0000	21.539
46 2-Hexanone	43	7.526	7.526	(0.975)	581043	100.000	97.109
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.252)	267998	20.0000	19.660
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	488339	20.0000	19.871
49 Tetrachloroethene	166	6.928	6.928	(0.898)	579433	20.0000	19.438
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	333202	20.0000	20.224
51 1,2-Dibromoethane	107	7.361	7.361	(1.302)	246877	20.0000	20.391
52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	685726	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	1406843	20.0000	19.520
54 Ethyl Benzene	91	7.748	7.748	(1.004)	2596930	20.0000	18.990
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	424144	20.0000	19.235
56 m,p-xylene	106	7.850	7.850	(1.017)	2020109	40.0000	39.198
58 o-Xylene	106	8.158	8.158	(1.057)	900946	20.0000	19.288
59 Styrene	104	8.197	8.198	(1.062)	1453228	20.0000	19.772
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	2345567	20.0000	19.394
61 Bromoform	173	8.215	8.215	(0.873)	145690	20.0000	20.570
62 1,1,2,2-Tetrachloroethane	83	8.732	8.733	(0.928)	193697	20.0000	18.652 (H)
63 4-Bromofluorobenzene	95	8.584	8.585	(1.112)	274160	10.0000	9.855
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	61797	20.0000	19.694
65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	39300	20.0000	19.186 (H)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	2720005	20.0000	19.696 (H)
67 Bromobenzene	156	8.664	8.664	(0.921)	456865	20.0000	19.729
68 1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	1734373	20.0000	19.412
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	1669918	20.0000	19.252
70 4-Chloro Toluene	91	8.915	8.915	(0.947)	1480492	20.0000	19.704
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	1415200	20.0000	18.741
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	1624284	20.0000	19.211
73 S-Butyl Benzene	105	9.188	9.188	(0.976)	2079712	20.0000	18.734
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1594232	20.0000	18.834
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	746220	20.0000	19.211
76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	229111	10.0000	
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	705027	20.0000	19.022
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	1342824	20.0000	18.562
79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	171133	10.0000	9.605 (H)
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	535940	20.0000	18.341
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.100)	19029	20.0000	20.538
82 1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	261854	20.0000	18.384
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	148682	20.0000	17.538
84 Naphthalene	128	11.140	11.140	(1.184)	354957	20.0000	18.338
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	174779	20.0000	18.100

QC Flag Legend

- 4 - Compound response manually integrated.
- I - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 2000222.d
 Lab Smp Id: IC200
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 22-FEB-2010
 Calibration Time: 17:11
 Client Smp ID: vstd6
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

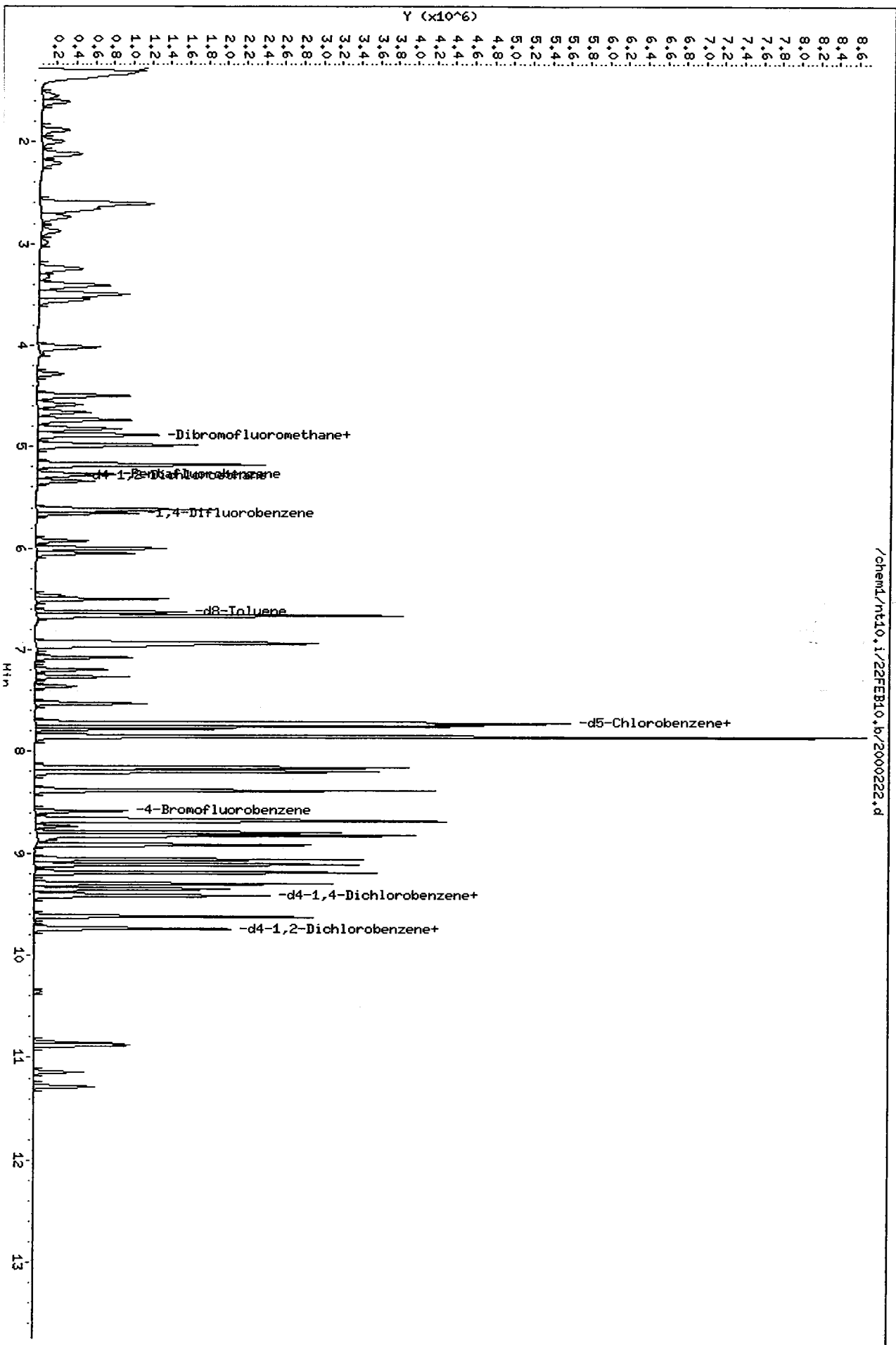
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	451239	-1.09
35 1,4-Difluorobenze	740651	370326	1481302	731744	-1.20
52 d5-Chlorobenzene	686240	343120	1372480	685726	-0.07
76 d4-1,4-Dichlorobe	249963	124982	499926	229111	-8.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	-0.11
35 1,4-Difluorobenze	5.66	5.16	6.16	5.65	-0.10
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

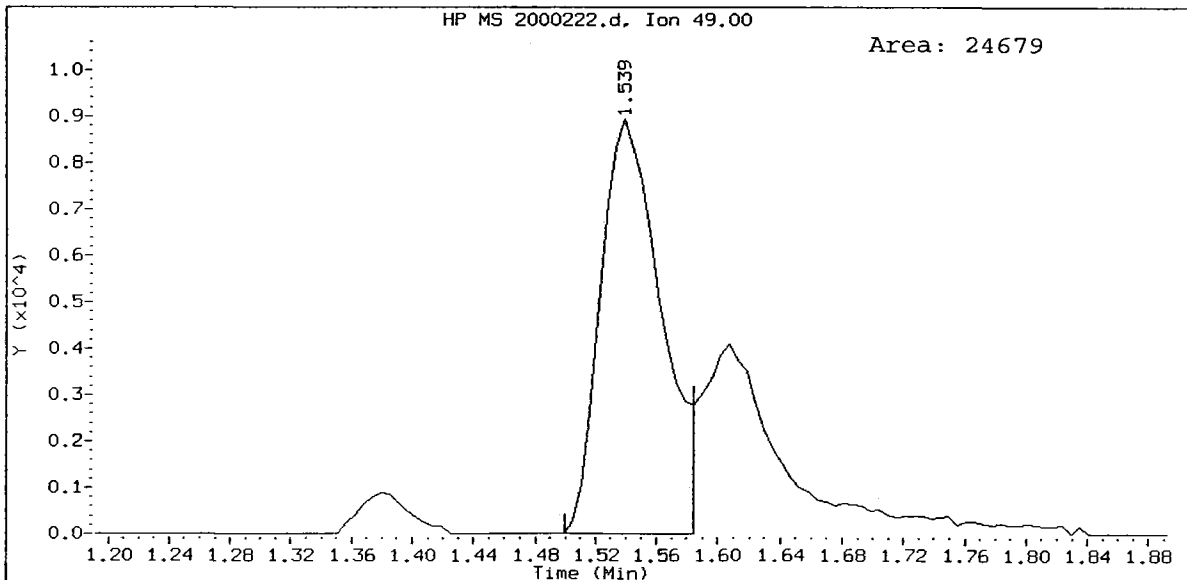
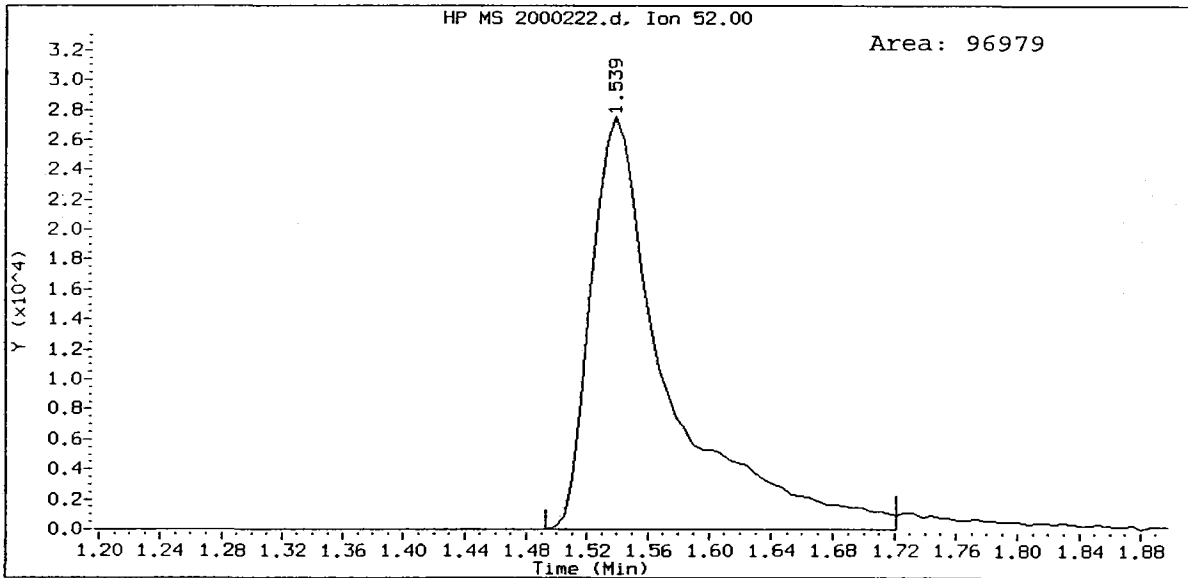
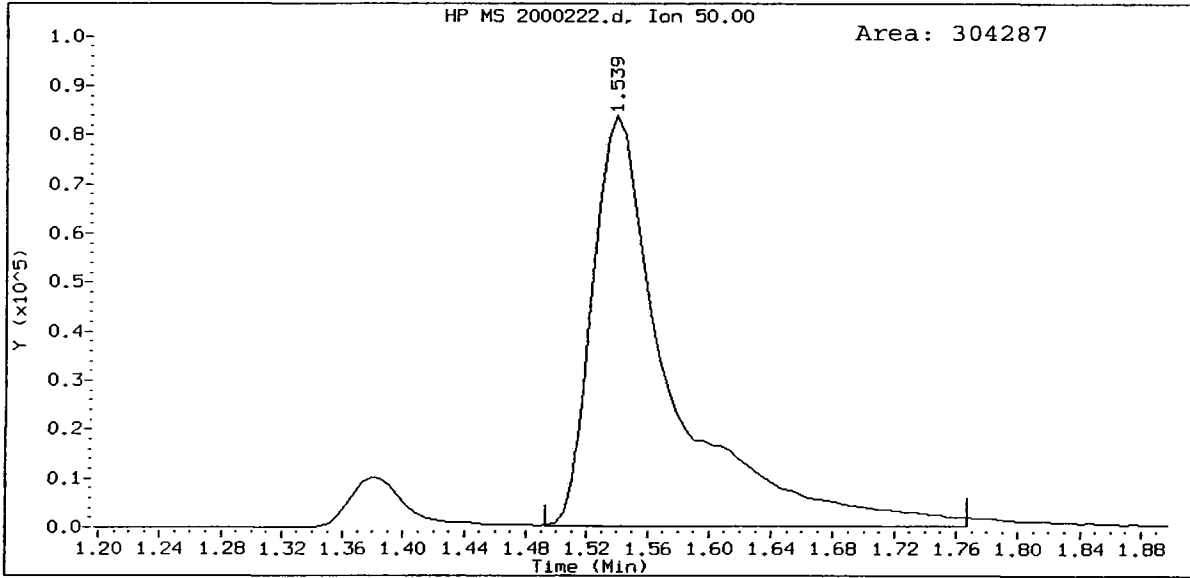
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Date: 22-FEB-2010 16:41
Client ID: vstd6
Sample Info: IC200,10,10,0
Column phase: RTX502.2

Instrument: nt10.1
Operator: ar
Column diameter: 0.18



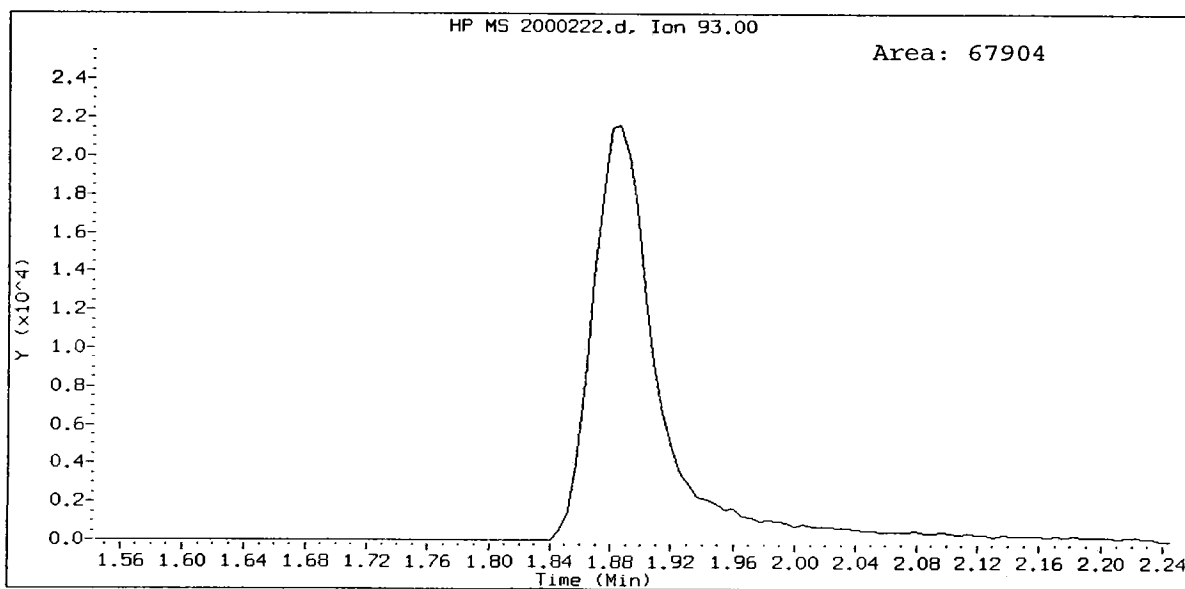
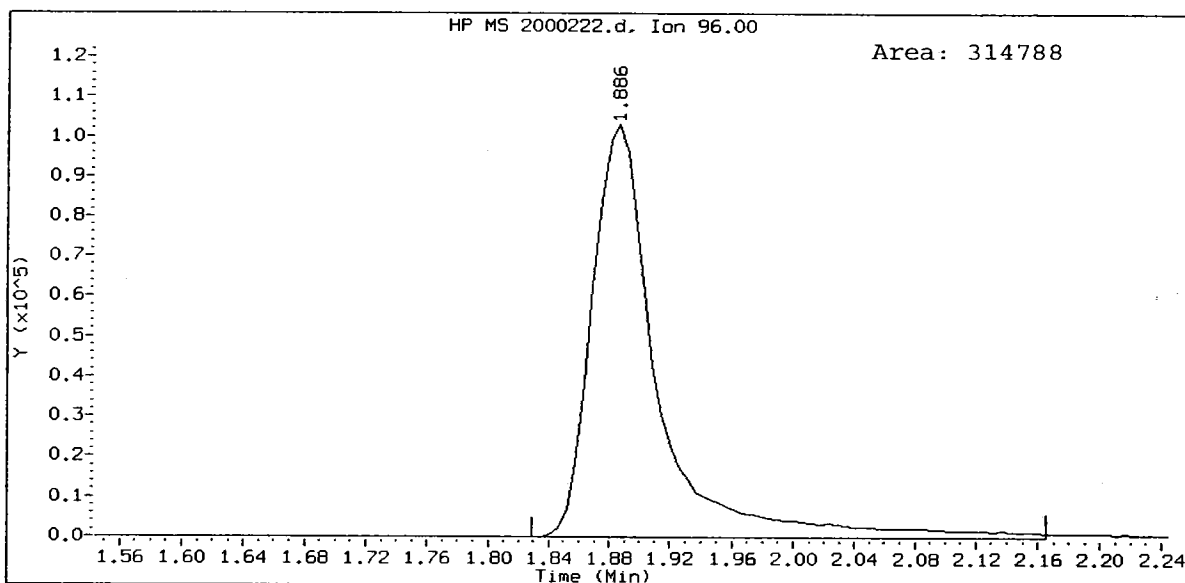
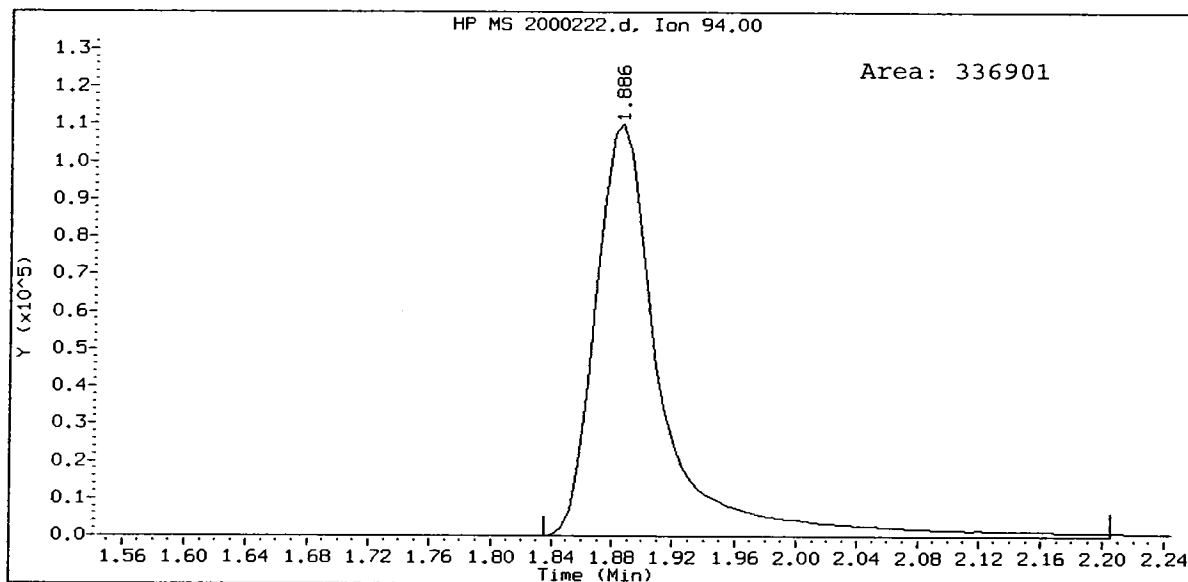
/chem1/nt10.i/22FEB10.b/2000222.d

IC200, /chem1/nt10.i/22FEB10.b/2000222.d
Chloromethane Amount: 17.97



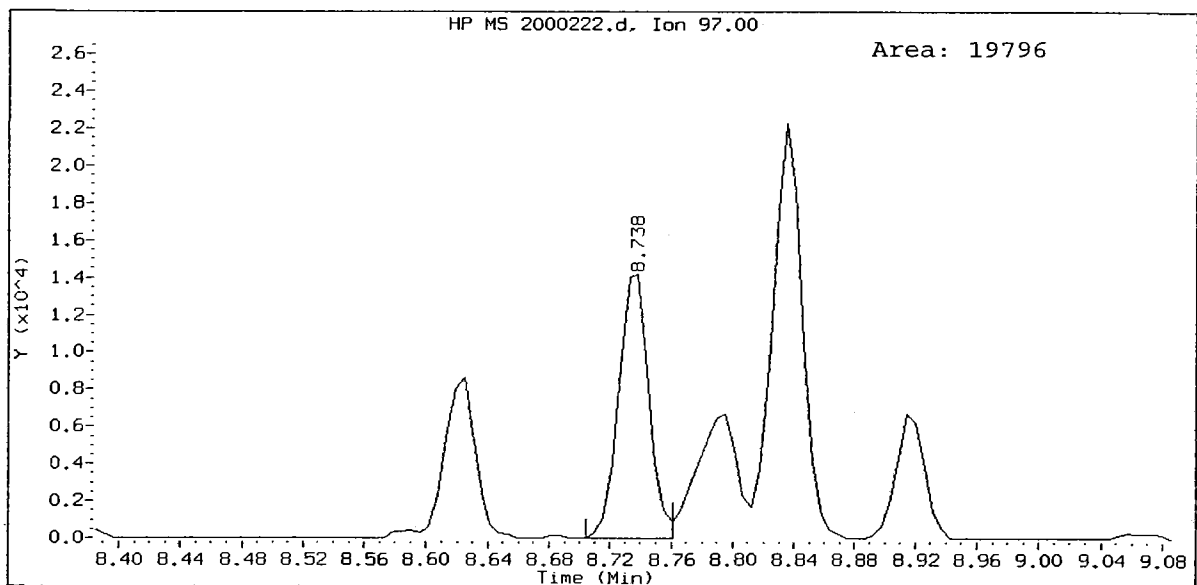
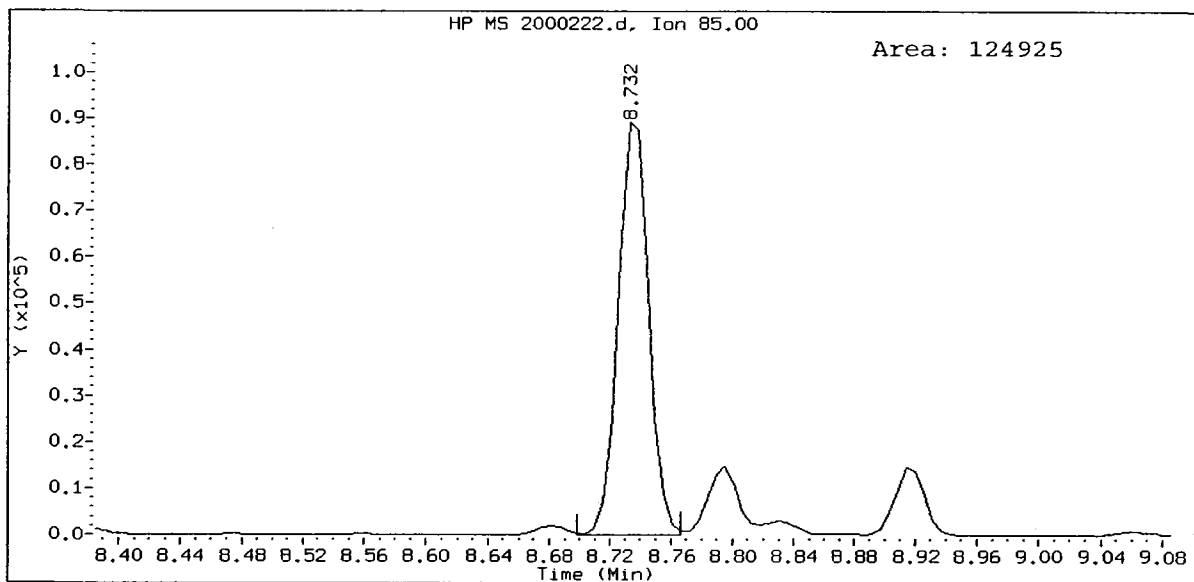
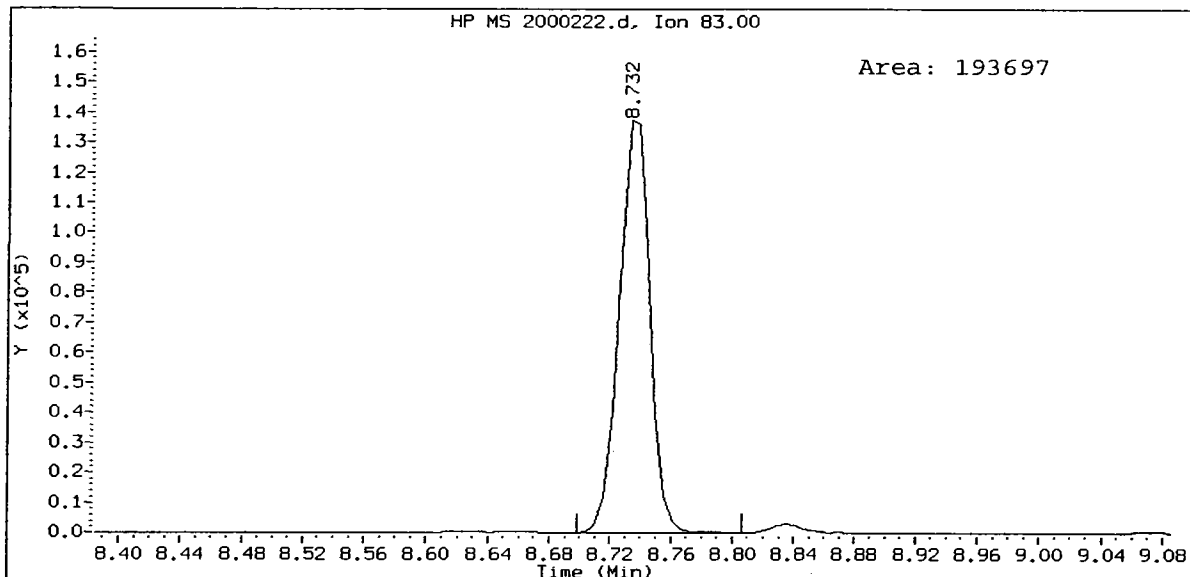
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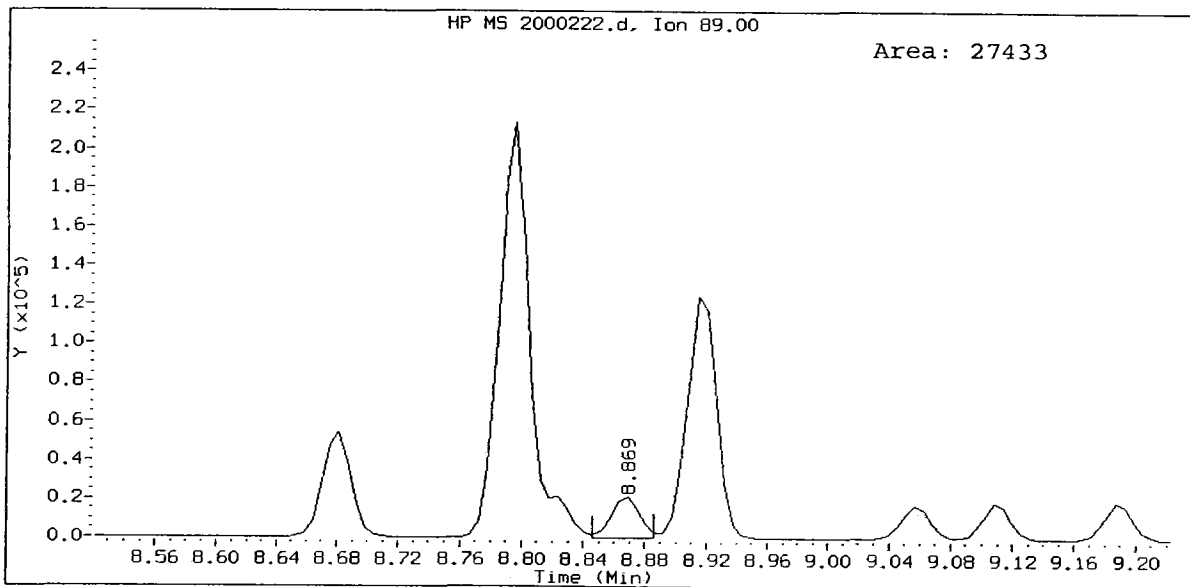
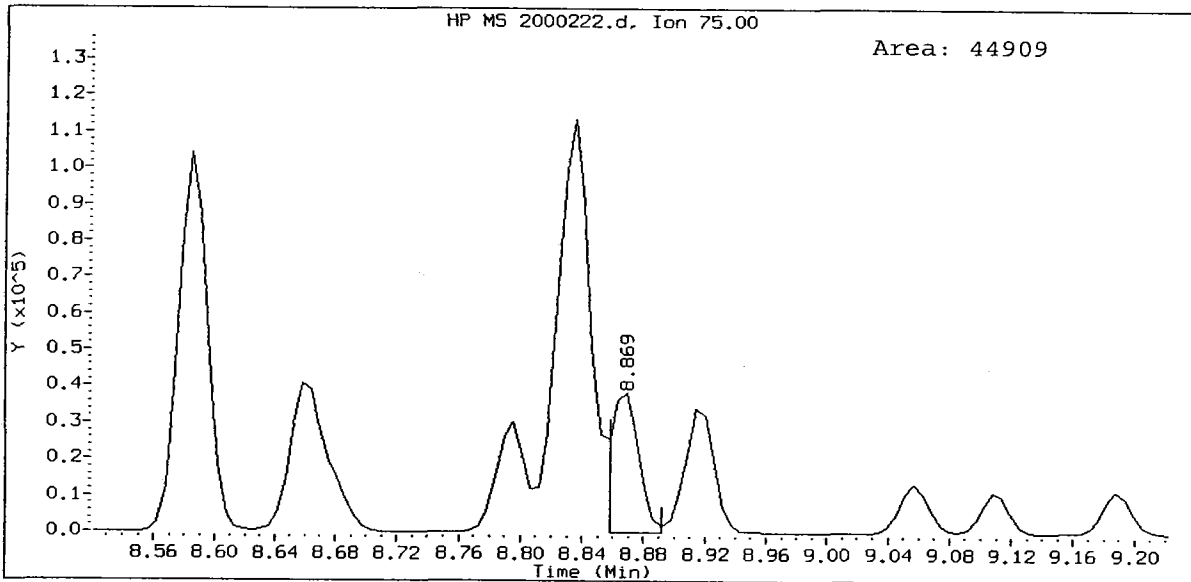
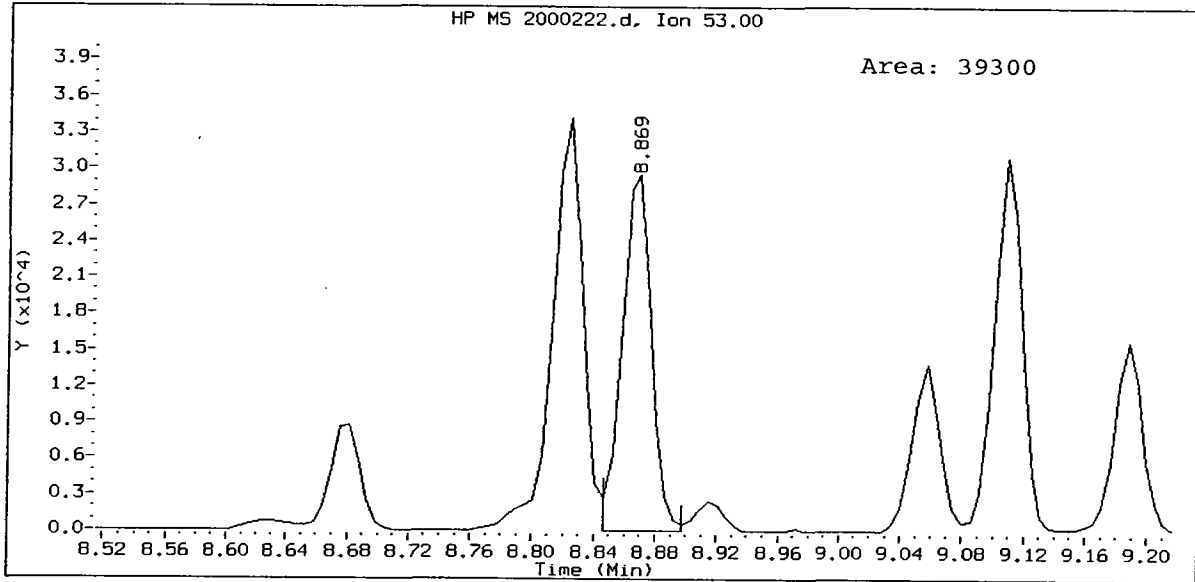
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Bromomethane Amount: 19.41

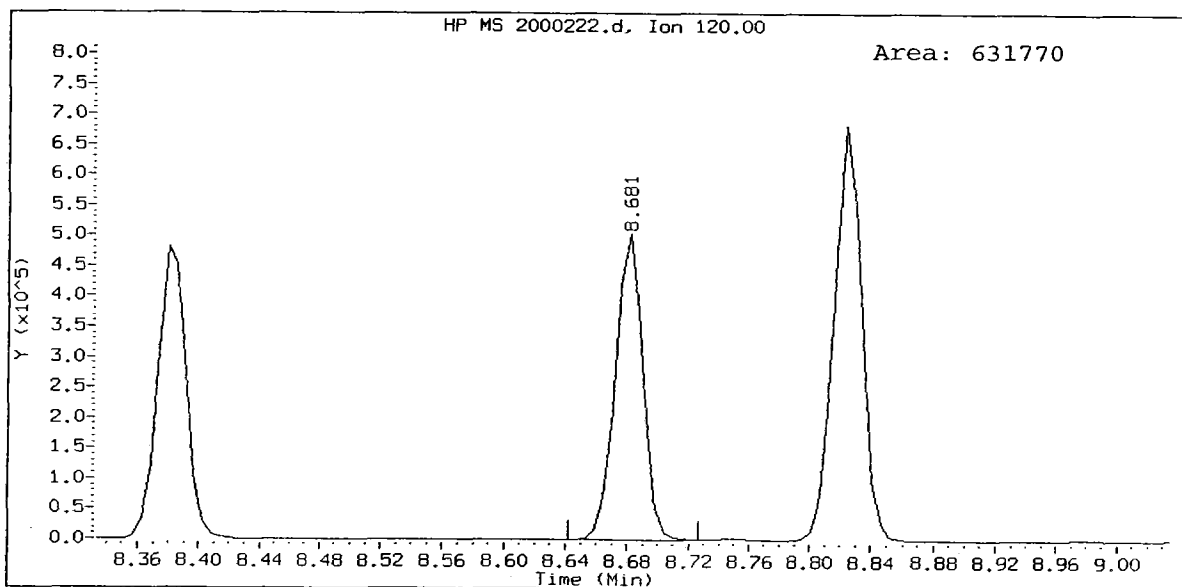
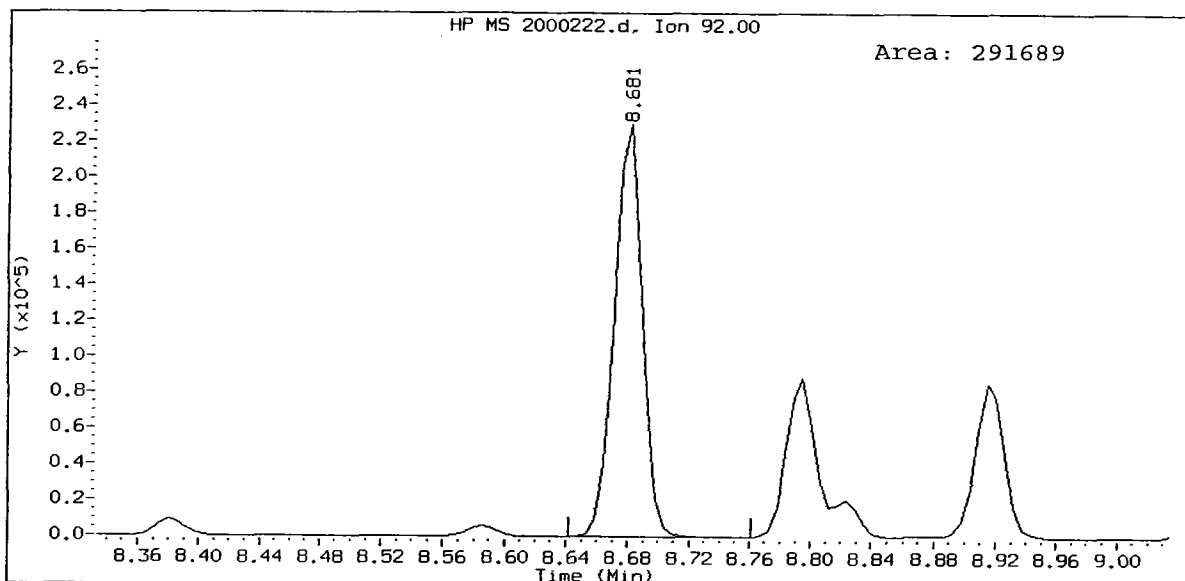
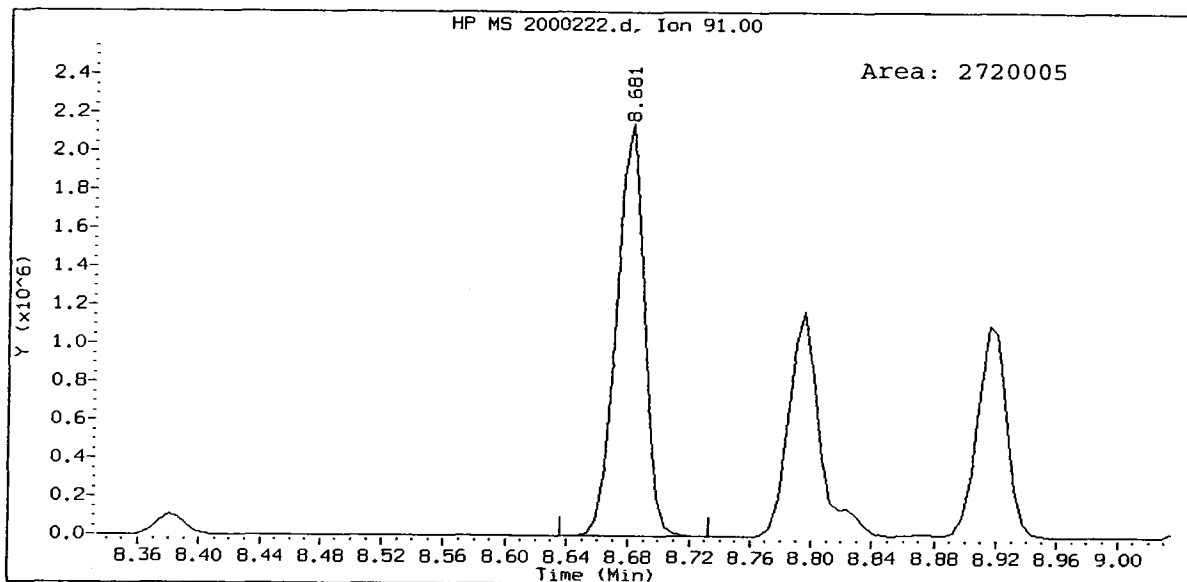


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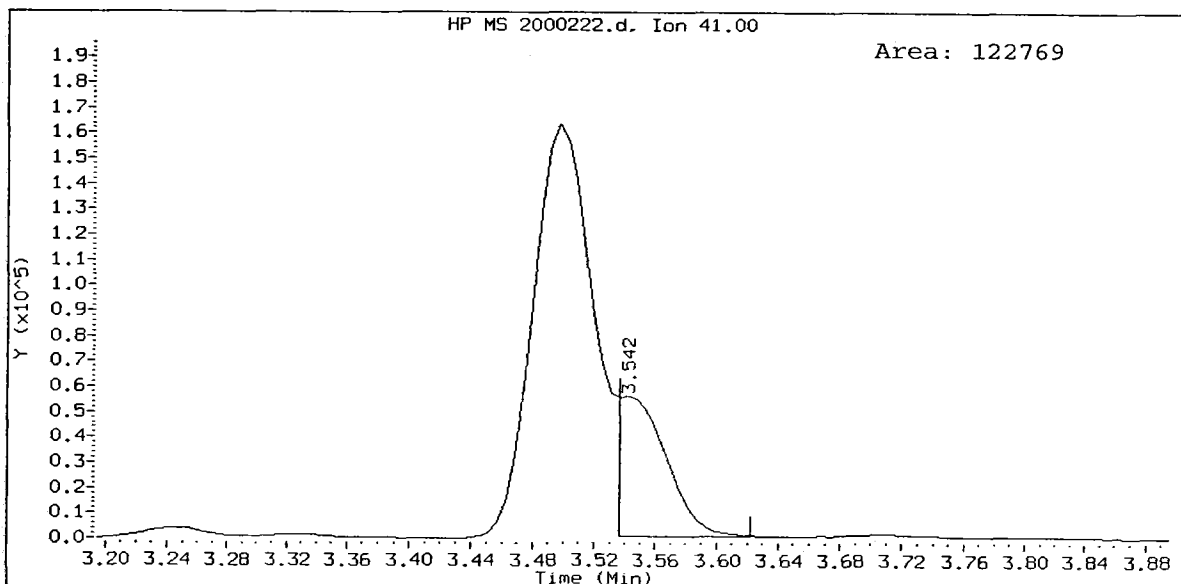
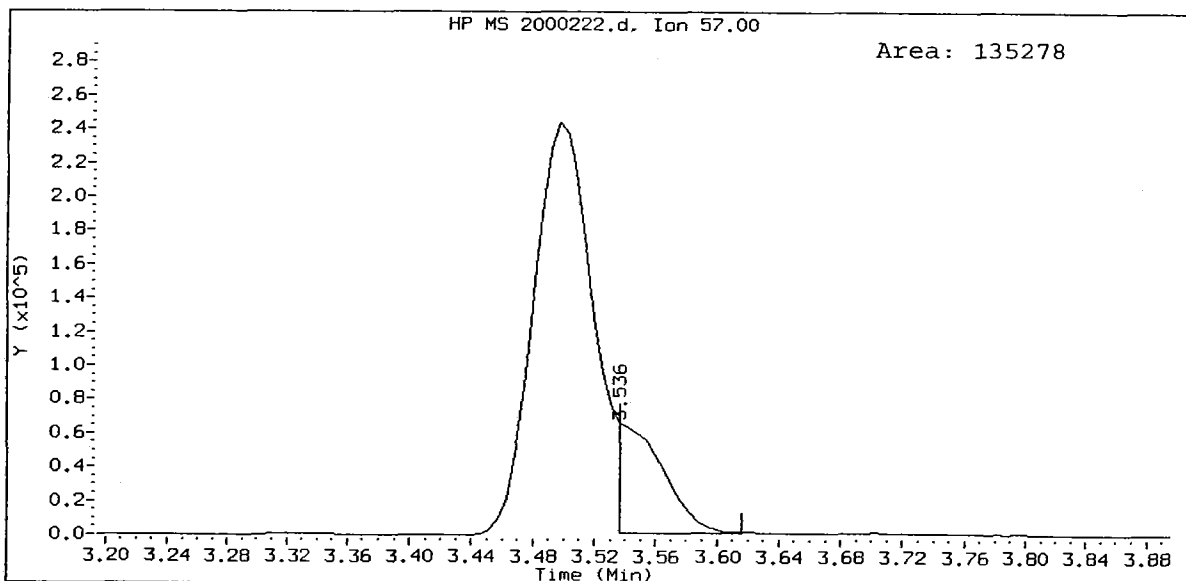
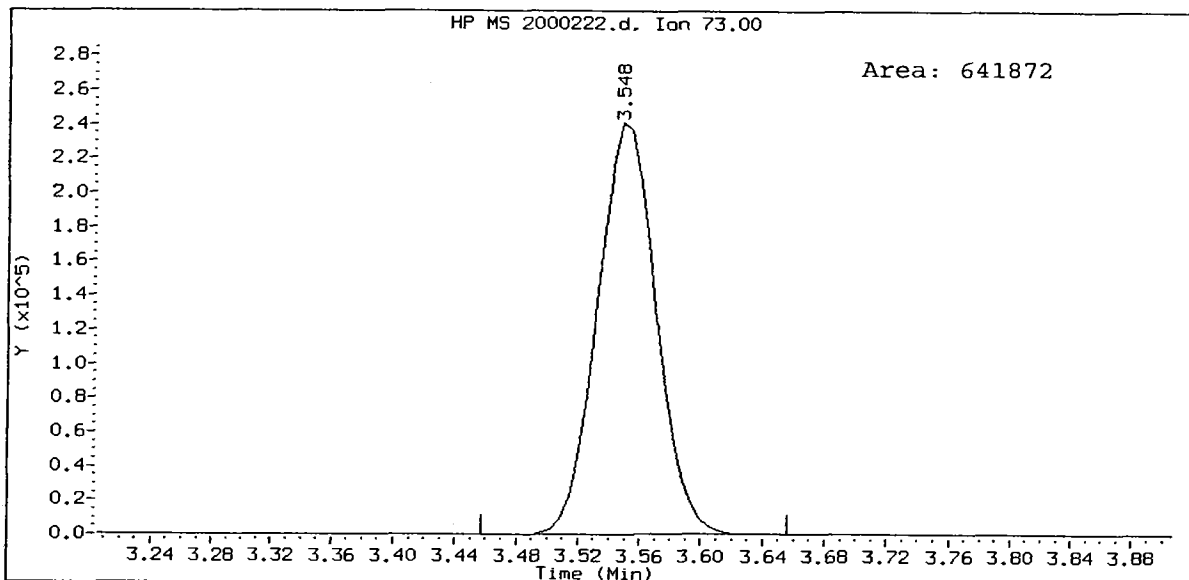
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1,1,2,2-Tetrachloroethane Amount: 18.65



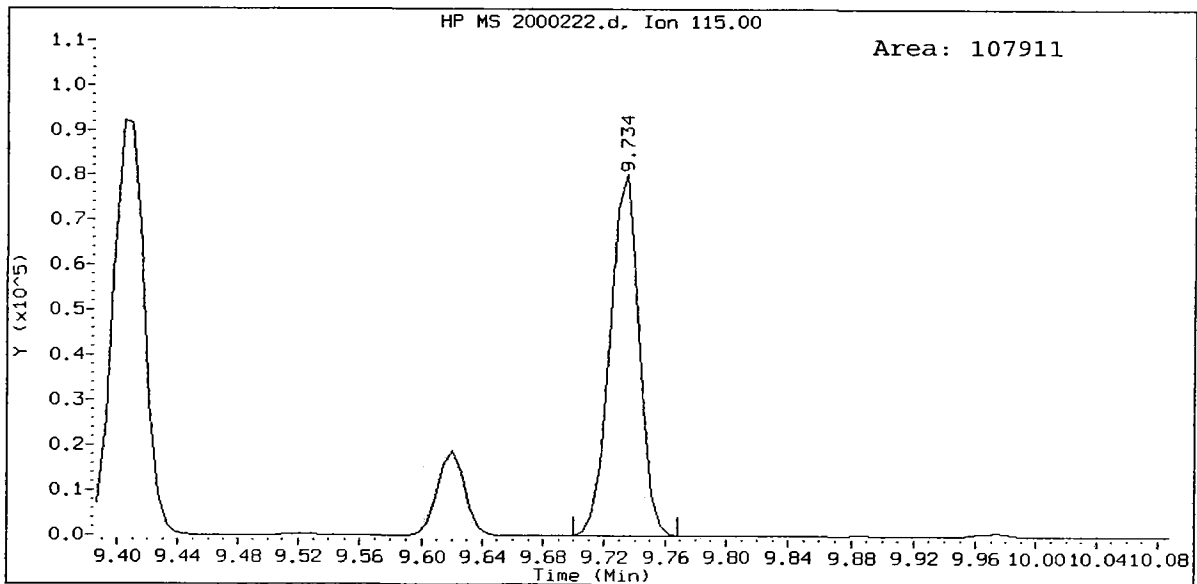
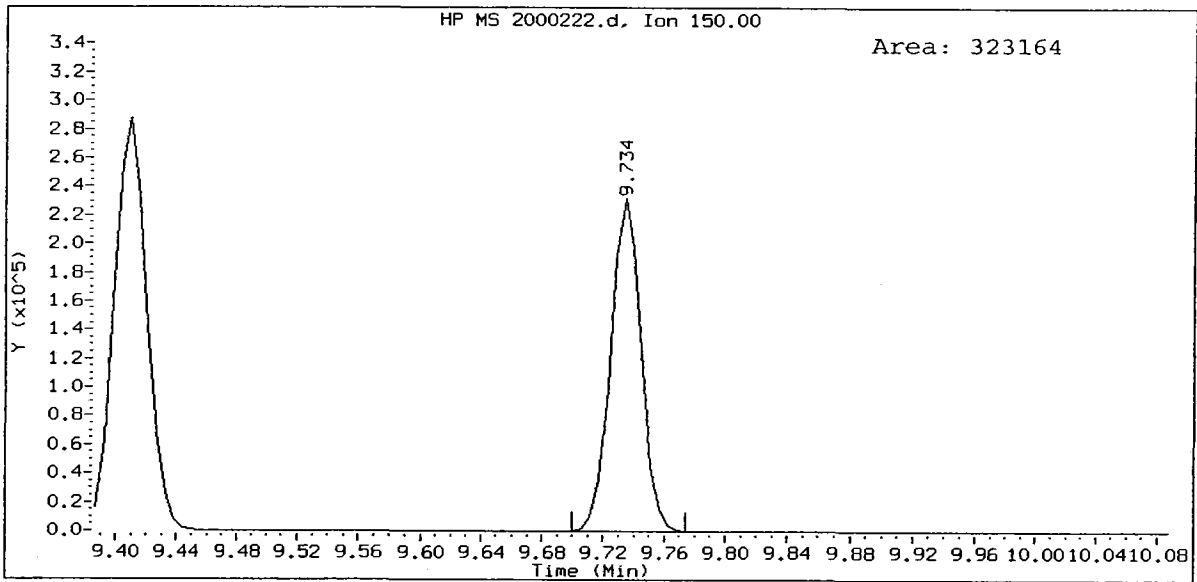
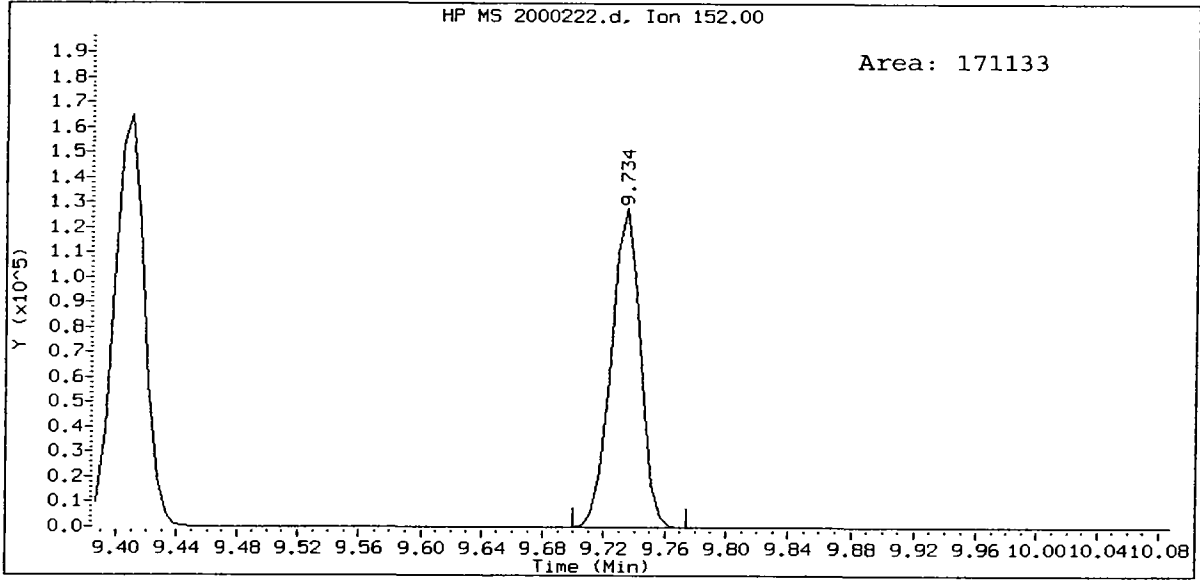




IC200, /chem1/nt10.i/22FEB10.b/2000222.d
Methyl tert butyl ether Amount: 19.44



IC200, /chem1/nt10.i/22FEB10.b/2000222.d
d4-1,2-Dichlorobenzene Amount: 9.60



QL34 : 000000

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/4000222a.d
 Lab Smp Id: IC400 Client Smp ID: vstd7
 Inj Date : 22-FEB-2010 16:11
 Operator : ar Inst ID: nt10.i
 Smp Info : IC400,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.385	(0.262)	383450	40.0000	34.552
2 Chloromethane	50	1.539	1.545	(0.292)	655651	40.0000	39.496
3 Vinyl Chloride	62	1.607	1.613	(0.305)	782341	40.0000	39.638
4 Bromomethane	94	1.886	1.892	(0.358)	691556	40.0000	40.624 (M)
5 Chloroethane	64	1.994	2.000	(0.378)	667155	40.0000	43.044
6 Trichlorofluoromethane	101	2.114	2.125	(0.401)	1169273	40.0000	42.146
8 Acrolein	56	2.996	2.996	(0.568)	260382	200.000	204.41
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.660	2.666	(0.505)	778208	40.0000	42.036
10 Acetone	43	3.332	3.326	(0.632)	391321	200.000	191.94
11 1,1-Dichloroethene	96	2.603	2.609	(0.494)	973359	40.0000	44.203
12 Bromoethane	108	2.876	2.882	(0.546)	537292	40.0000	39.981
13 Iodomethane	142	2.740	2.740	(0.520)	1144399	40.0000	38.453
14 Methylene Chloride	84	3.246	3.252	(0.616)	787184	40.0000	42.915
15 Acrylonitrile	53	4.089	4.089	(0.775)	110283	40.0000	42.473
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	1273236	40.0000	39.324 (M)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
-----	----	==	=====	=====	=====	=====	=====
17 Carbon Disulfide	76	2.609	2.615	(0.495)	3171259	40.0000	43.983
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.647)	981133	40.0000	42.404
20 Vinyl Acetate	43	4.282	4.282	(0.812)	811185	40.0000	39.619
21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	1568148	40.0000	41.600
22 2-Butanone	72	4.993	4.994	(0.947)	269664	200.000	205.64
23 2,2-Dichloropropane	77	4.584	4.584	(0.869)	562562	40.0000	37.506
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	1043203	40.0000	40.412
25 Pentafluorobenzene	168	5.272	5.272	(1.000)	442482	10.0000	
26 Chloroform	83	4.737	4.737	(0.899)	1681710	40.0000	41.875
27 Bromochloromethane	128	4.663	4.663	(0.884)	359922	40.0000	41.048
28 Dibromofluoromethane	111	4.880	4.880	(0.926)	185468	10.0000	10.050 (M)
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	1249501	40.0000	39.999
30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	1450548	40.0000	41.197
31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	1056095	40.0000	40.999
32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	158584	10.0000	9.772
33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	849589	40.0000	39.732
34 Benzene	78	5.181	5.181	(0.916)	4071739	40.0000	40.934
35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	709206	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.993)	1129121	40.0000	42.363
37 1,2-Dichloropropane	63	6.006	6.007	(1.061)	890203	40.0000	41.340
38 Bromodichloromethane	83	6.052	6.052	(1.069)	1124616	40.0000	41.296
39 Dibromomethane	93	5.927	5.927	(1.047)	353592	40.0000	41.089
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.143)	209219	40.0000	40.928
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.227)	829787	200.000	218.45
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	1306185	40.0000	43.096
43 d8-Toluene	98	6.632	6.633	(1.172)	867306	10.0000	10.036
44 Toluene	92	6.667	6.667	(1.178)	2830417	40.0000	41.718
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	1012392	40.0000	45.427
46 2-Hexanone	43	7.526	7.526	(0.968)	1217806	200.000	203.77
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	539446	40.0000	40.831
48 1,3-Dichloropropane	76	7.264	7.264	(0.934)	970801	40.0000	39.549
49 Tetrachloroethene	166	6.928	6.928	(0.891)	1207784	40.0000	40.565
50 Chlorodibromomethane	129	7.196	7.196	(0.925)	682450	40.0000	41.471
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	495693	40.0000	42.244
52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	684917	10.0000	(H)
53 Chlorobenzene	112	7.731	7.731	(0.994)	2952023	40.0000	41.009
54 Ethyl Benzene	91	7.754	7.748	(0.997)	5469392	40.0000	40.043
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.000)	904638	40.0000	41.073
56 m,p-xylene	106	7.856	7.850	(1.010)	4287754	80.0000	83.297
58 o-Xylene	106	8.158	8.158	(1.049)	1906776	40.0000	40.870
59 Styrene	104	8.197	8.198	(1.054)	3025675	40.0000	41.214
60 Isopropyl Benzene	105	8.385	8.380	(0.891)	4980676	40.0000	44.178
61 Bromoform	173	8.215	8.215	(0.873)	305905	40.0000	46.333
62 1,1,2,2-Tetrachloroethane	83	8.738	8.733	(0.929)	391343	40.0000	40.426
63 4-Bromofluorobenzene	95	8.584	8.585	(1.104)	265825	10.0000	9.567
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	123134	40.0000	42.095 (M)
65 Trans-1,4-Dichloro 2-Butene	53	8.869	8.863	(0.943)	86818	40.0000	41.297

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	5554695	40.0000	43.149
67 Bromobenzene	156	8.664	8.664	(0.921)	938411	40.0000	43.473
68 1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	3478561	40.0000	41.766
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	3432140	40.0000	42.446
70 4-Chloro Toluene	91	8.915	8.915	(0.947)	2984940	40.0000	42.618
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	2839780	40.0000	40.343
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	3182149	40.0000	40.374
73 S-Butyl Benzene	105	9.188	9.188	(0.976)	4061790	40.0000	39.251
74 4-Isopropyl Toluene	119	9.302	9.296	(0.988)	3045628	40.0000	38.599
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	1452818	40.0000	40.124
* 76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	213572	10.0000	(Q)
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	1373602	40.0000	39.758
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	2559580	40.0000	37.956
‡ 79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	161502	10.0000	9.724(Q)
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	1044711	40.0000	38.354
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.100)	39407	40.0000	45.626
82 1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	526699	40.0000	39.668
83 Hexachloro 1,3-Butadiene	225	10.861	10.855	(1.154)	282932	40.0000	35.803
84 Naphthalene	128	11.140	11.140	(1.184)	693198	40.0000	38.418
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	335261	40.0000	37.245

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- I - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 4000222a.d
 Lab Smp Id: IC400
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 22-FEB-2010
 Calibration Time: 17:11
 Client Smp ID: vstd7
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	442482	-3.01
35 1,4-Difluorobenze	740651	370326	1481302	709206	-4.25
52 d5-Chlorobenzene	686240	343120	1372480	684917	-0.19
76 d4-1,4-Dichlorobe	249963	124982	499926	213572	-14.56

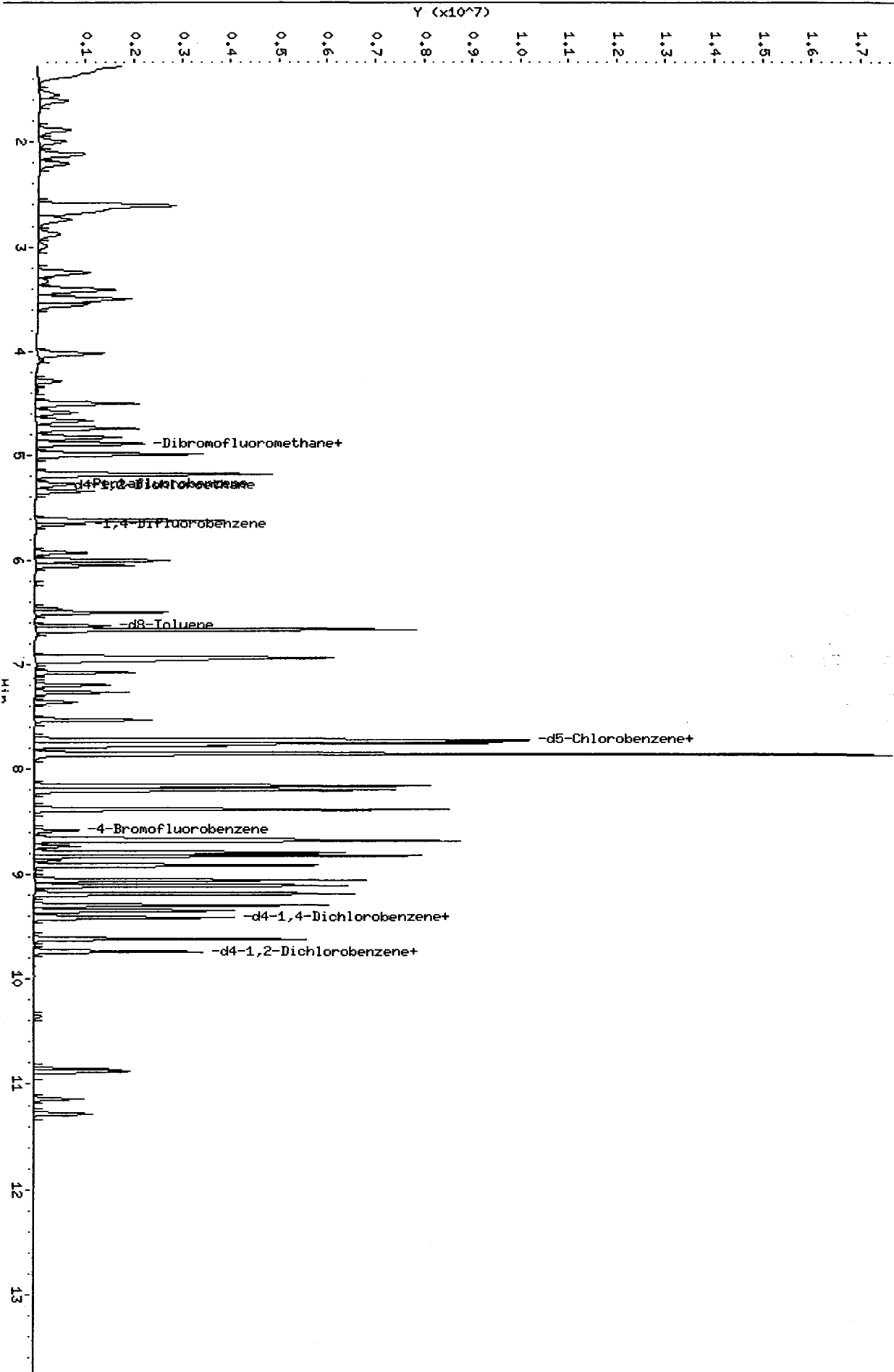
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

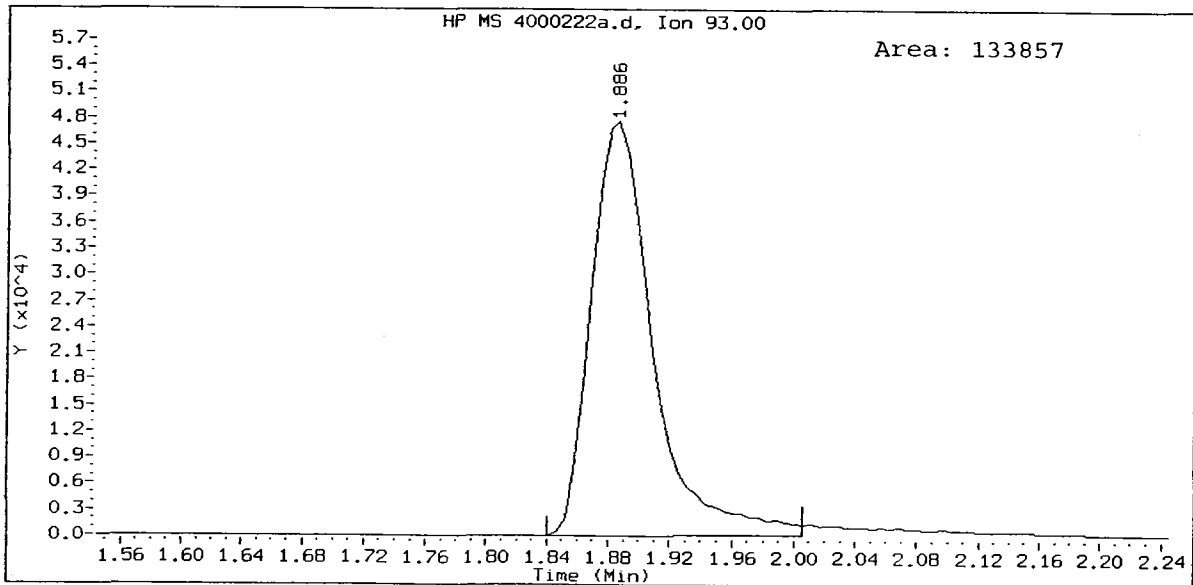
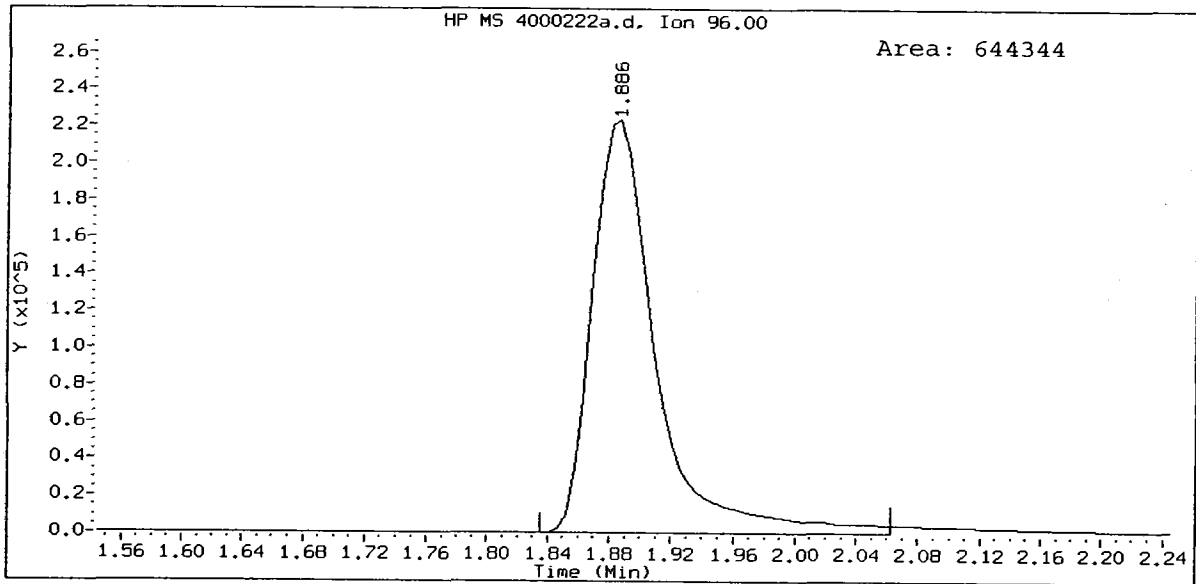
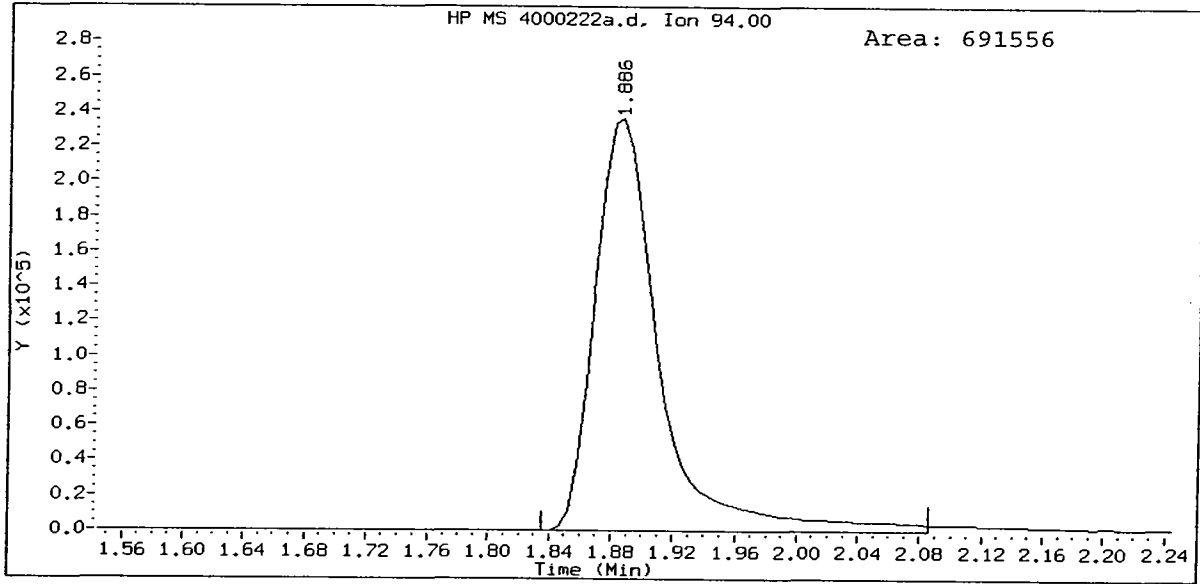
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/4000222a.d
Date : 22-FEB-2010 16:11
Client ID: vstcd7
Sample Info: IC400,10,10,0
Column phase: RTX502.2

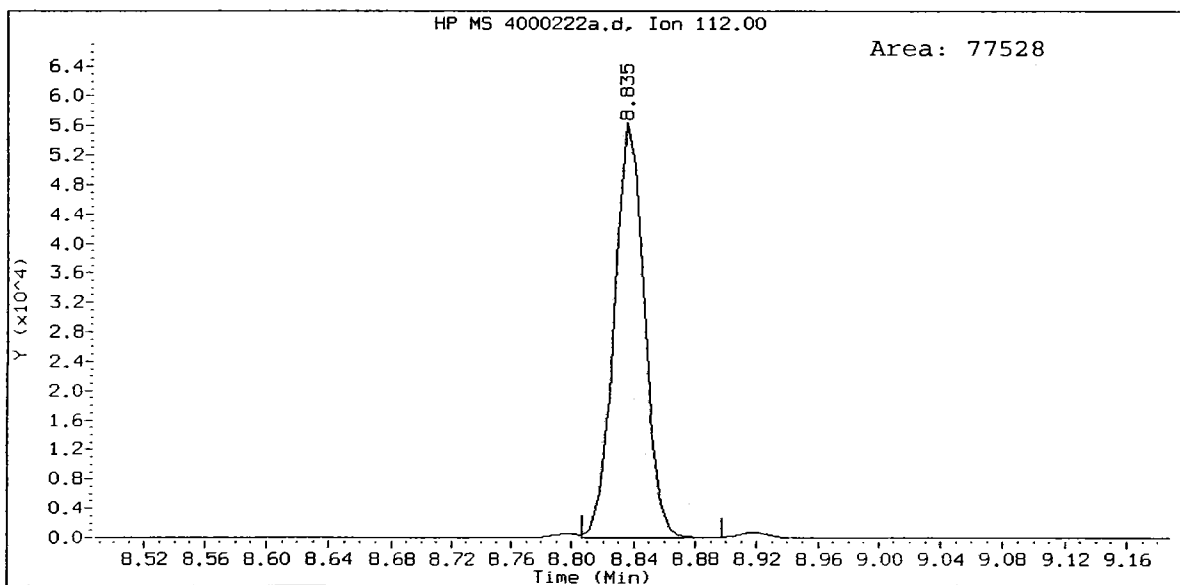
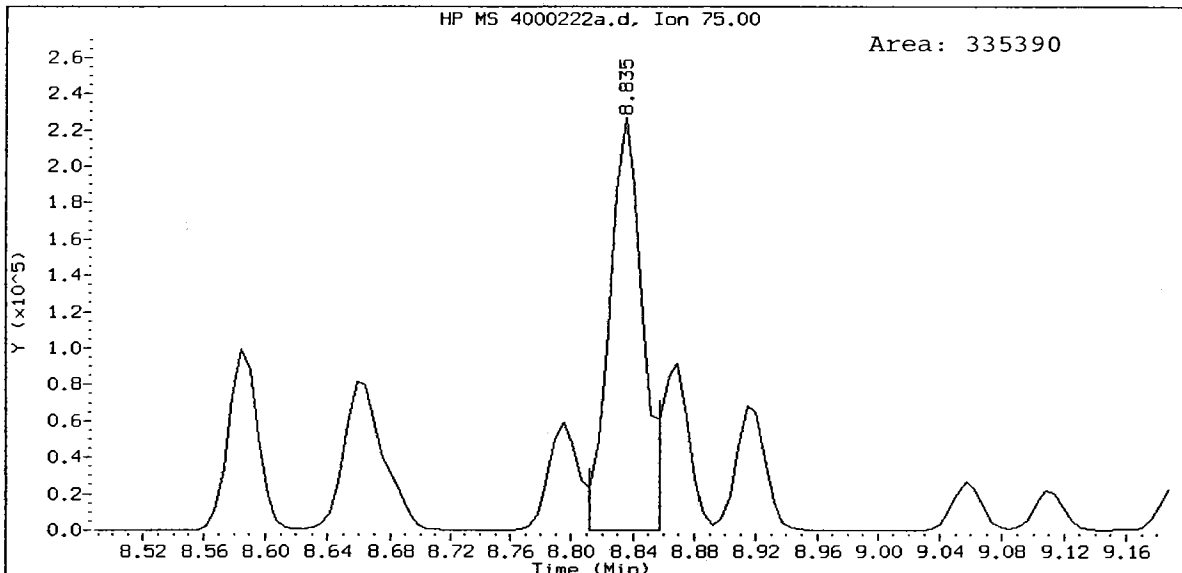
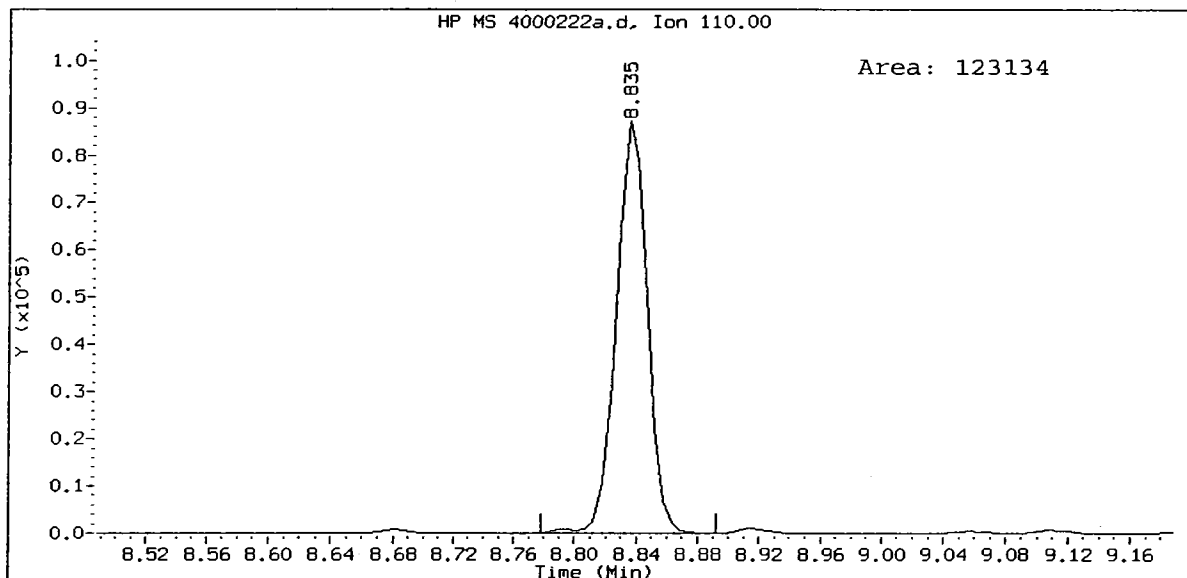
Instrument: nt10.i
Operator: ar
Column diameter: 0.18

/chem1/nt10.i/22FEB10.b/4000222a.d

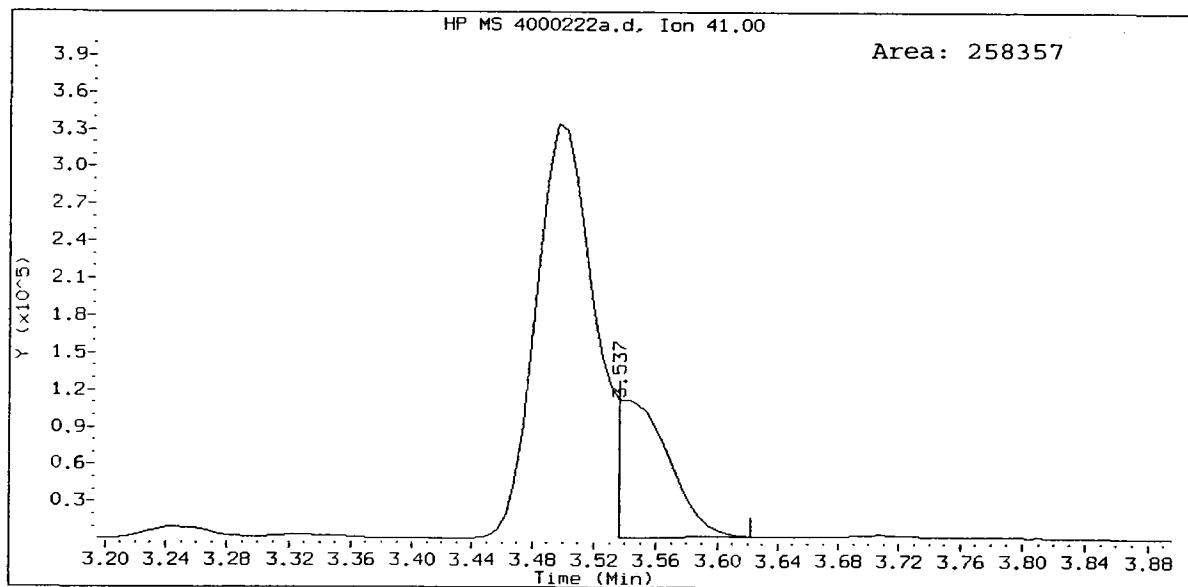
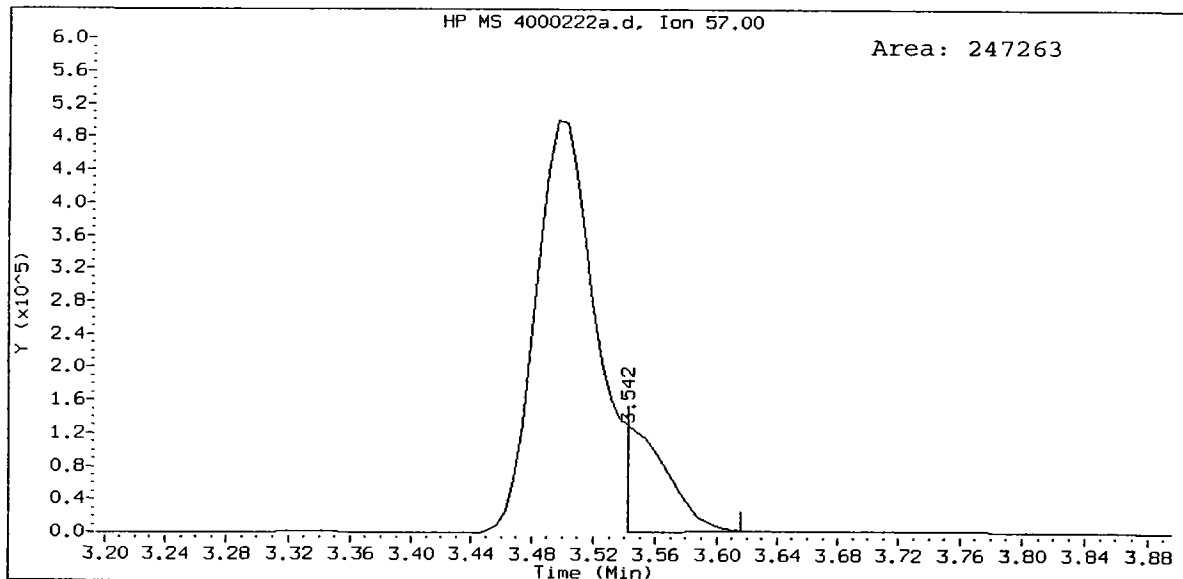
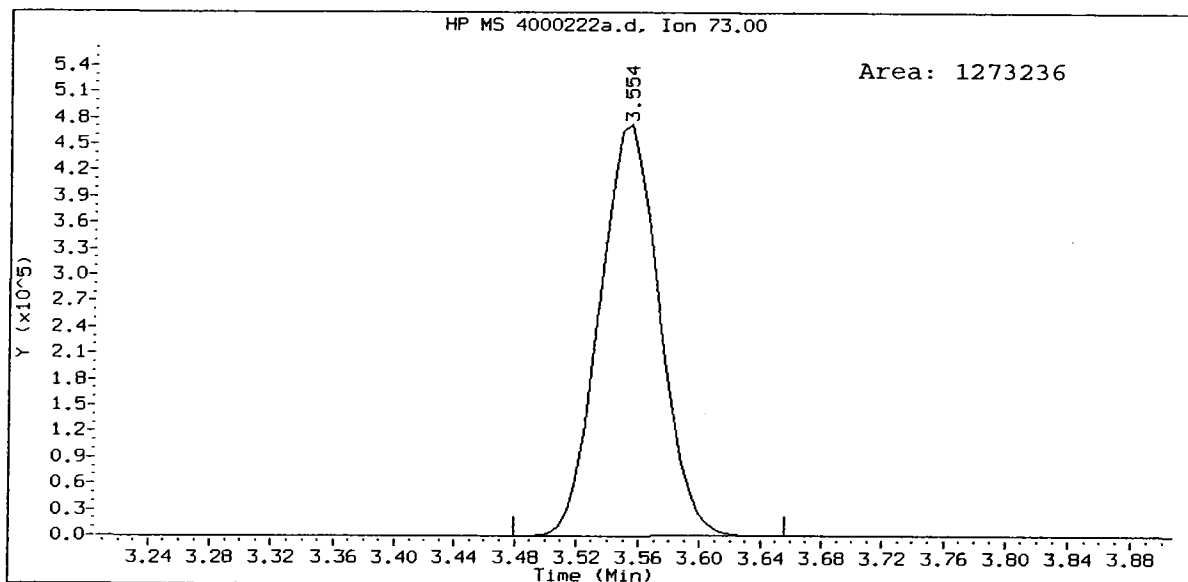


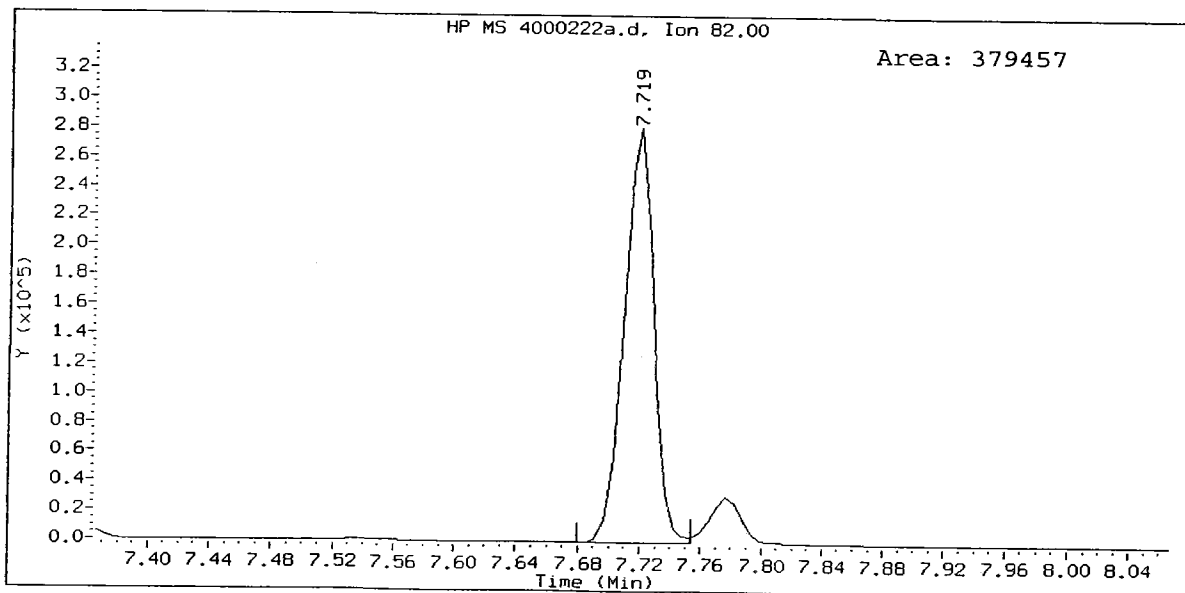
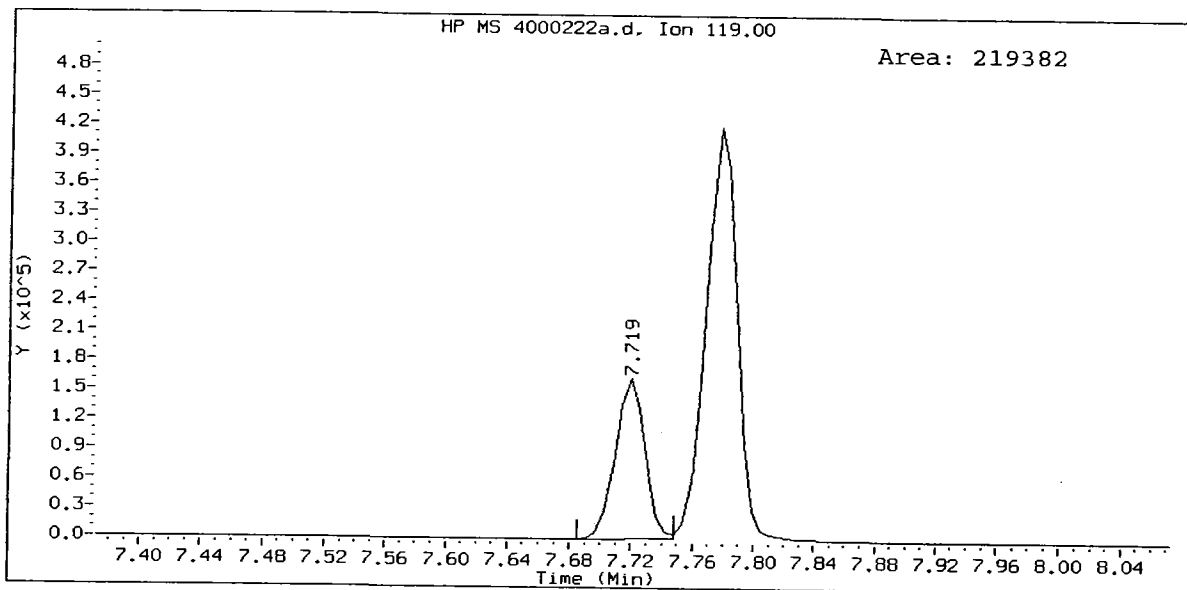
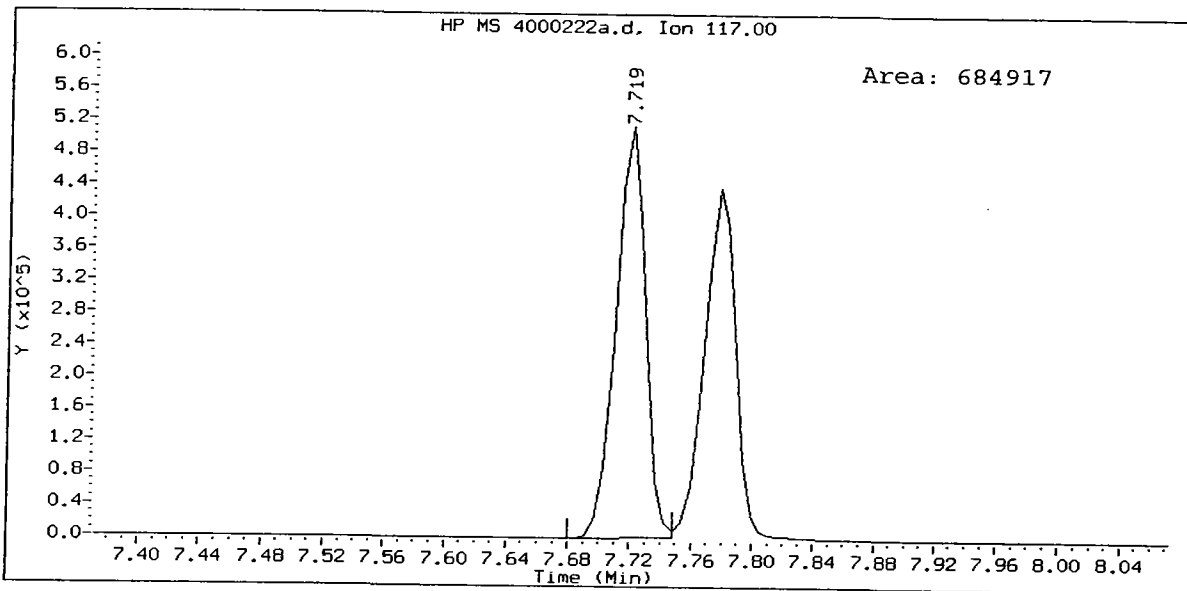


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1,2,3-Trichloropropane Amount: 42.10

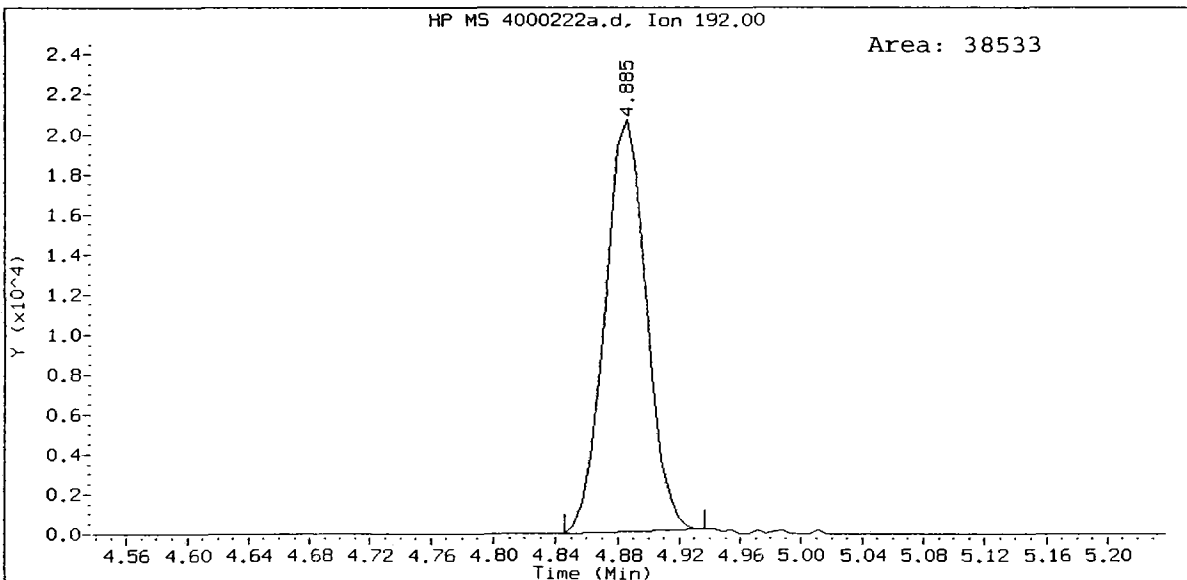
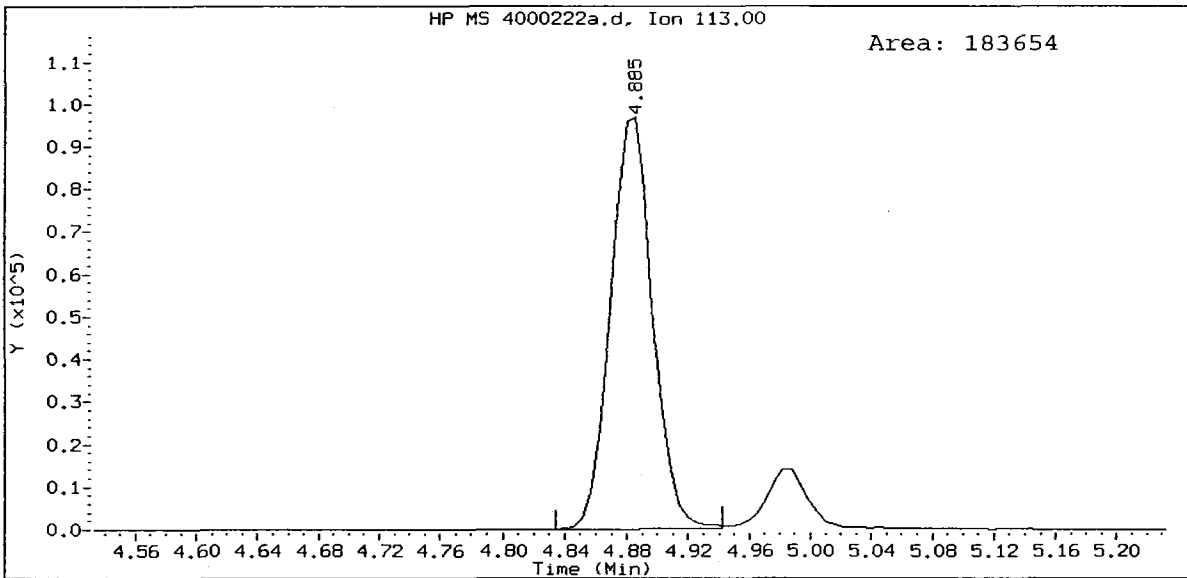
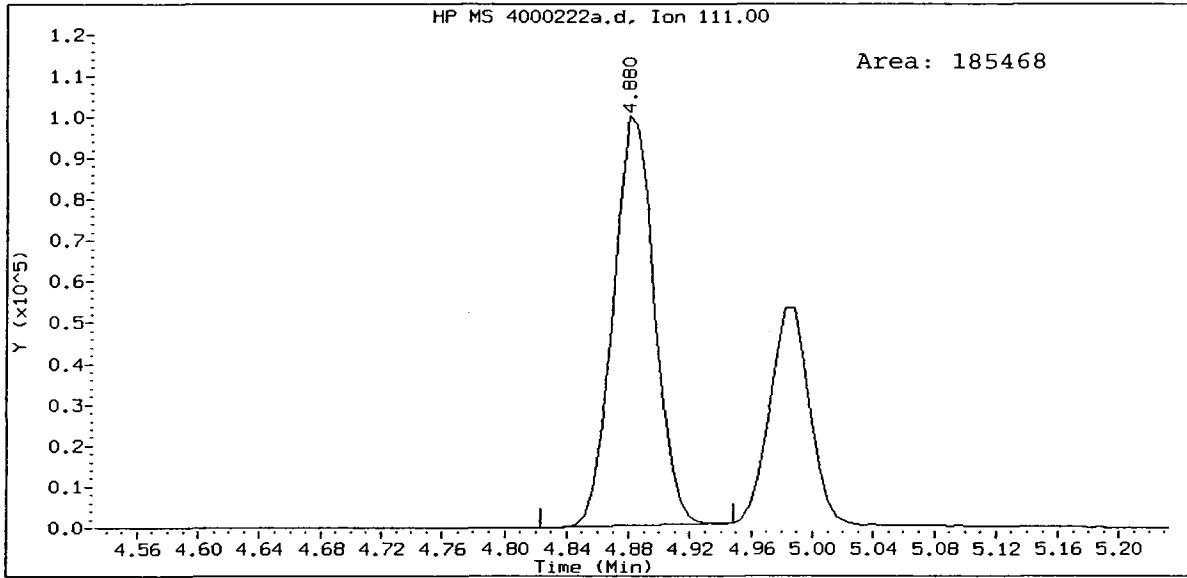


IC400, /chem1/nt10.i/22FEB10.b/4000222a.d
Methyl tert butyl ether Amount: 39.32





IC400, /chem1/nt10.i/22FEB10.b/4000222a.d
Dibromofluoromethane Amount: 10.05



Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/22FEB10.b/6000222.d
 Lab Smp Id: IC600 Client Smp ID: vstd8
 Inj Date : 22-FEB-2010 15:12
 Operator : ar Inst ID: nt10.i
 Smp Info : IC600,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Calibration Sample, Level: 8
 Dil Factor: 1.00000 Compound Sublist: voa.sub
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.380	1.385	(0.262)	635834	60.0000	54.743
2 Chloromethane	50	1.539	1.545	(0.292)	923817	60.0000	53.172 (M)
3 Vinyl Chloride	62	1.607	1.613	(0.305)	1186000	60.0000	57.414
4 Bromomethane	94	1.886	1.892	(0.358)	1060997	60.0000	59.551 (M)
5 Chloroethane	64	1.994	2.000	(0.378)	930217	60.0000	57.344
6 Trichlorofluoromethane	101	2.108	2.125	(0.400)	1733338	60.0000	59.697
8 Acrolein	56	2.990	2.996	(0.567)	420726	300.000	315.58
9 112Trichloro122Trifluoroethane	101	2.660	2.666	(0.505)	1107938	60.0000	57.182
10 Acetone	43	3.332	3.326	(0.632)	615171	300.000	288.30
11 1,1-Dichloroethene	96	2.603	2.609	(0.494)	1343235	60.0000	58.285
12 Bromoethane	108	2.876	2.882	(0.546)	826185	60.0000	58.741
13 Iodomethane	142	2.740	2.740	(0.520)	1559703	60.0000	50.075
14 Methylene Chloride	84	3.246	3.252	(0.616)	1156394	60.0000	60.237
15 Acrylonitrile	53	4.089	4.089	(0.775)	177453	60.0000	65.300
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	1898482	60.0000	56.025 (M)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
-----	----	==	=====	=====	=====	=====	=====	=====	
17 Carbon Disulfide	76		2.609	2.615	(0.495)	4622704	60.0000	61.259	
18 Trans-1,2-Dichloroethene	96		3.411	3.411	(0.647)	1454788	60.0000	60.076	
20 Vinyl Acetate	43		4.282	4.282	(0.812)	1336213	60.0000	62.356	
21 1,1-Dichloroethane	63		4.020	4.020	(0.763)	2455030	60.0000	62.228	
22 2-Butanone	72		4.994	4.994	(0.947)	445840	300.000	324.85	
23 2,2-Dichloropropane	77		4.584	4.584	(0.869)	928906	60.0000	59.174	
24 Cis-1,2-Dichloroethene	96		4.498	4.498	(0.853)	1567259	60.0000	58.010	
25 Pentafluorobenzene	168		5.272	5.272	(1.000)	463099	10.0000		
26 Chloroform	83		4.737	4.737	(0.899)	2529982	60.0000	60.193	
27 Bromochloromethane	128		4.663	4.663	(0.884)	581103	60.0000	63.323	
28 Dibromofluoromethane	111		4.885	4.880	(0.927)	197613	10.0000	10.232	
29 1,1,1-Trichloroethane	97		4.885	4.885	(0.927)	2005649	60.0000	61.347	
30 1,1-Dichloropropene	75		4.982	4.982	(0.880)	2265517	60.0000	60.863	
31 Carbon Tetrachloride	117		4.823	4.823	(0.852)	1692507	60.0000	62.151	
32 d4-1,2-Dichloroethane	65		5.289	5.289	(1.003)	169646	10.0000	9.988	
33 1,2-Dichloroethane	62		5.341	5.341	(0.944)	1351266	60.0000	59.775	
34 Benzene	78		5.181	5.181	(0.916)	6289100	60.0000	59.805	
35 1,4-Difluorobenzene	114		5.659	5.659	(1.000)	749765	10.0000		
36 Trichloroethene	95		5.620	5.620	(0.993)	1787480	60.0000	63.436	
37 1,2-Dichloropropane	63		6.007	6.007	(1.061)	1398245	60.0000	61.420	
38 Bromodichloromethane	83		6.052	6.052	(1.069)	1827525	60.0000	63.476	
39 Dibromomethane	93		5.927	5.927	(1.047)	578601	60.0000	63.599	
40 2-Chloroethyl Vinyl Ether	63		6.467	6.468	(1.143)	336108	60.0000	62.194	
41 4-Methyl-2-Pentanone	58		6.946	6.946	(1.227)	1383493	300.000	344.52	
42 Cis 1,3-dichloropropene	75		6.502	6.502	(1.149)	2142390	60.0000	66.862	
43 d8-Toluene	98		6.633	6.633	(1.172)	911174	10.0000	9.974	
44 Toluene	92		6.667	6.667	(1.178)	4430806	60.0000	61.773	
45 Trans 1,3-Dichloropropene	75		6.963	6.963	(1.230)	1676225	60.0000	71.145	
46 2-Hexanone	43		7.526	7.526	(0.968)	1990538	300.000	308.78	
47 1,1,2-Trichloroethane	97		7.076	7.076	(1.250)	872040	60.0000	62.435	
48 1,3-Dichloropropane	76		7.264	7.264	(0.934)	1572660	60.0000	59.394	
49 Tetrachloroethene	166		6.928	6.928	(0.891)	1915963	60.0000	59.656	
50 Chlorodibromomethane	129		7.196	7.196	(0.925)	1107546	60.0000	62.395	
51 1,2-Dibromoethane	107		7.361	7.361	(1.301)	807675	60.0000	65.108	
52 d5-Chlorobenzene	117		7.720	7.720	(1.000)	738803	10.0000	(H)	
53 Chlorobenzene	112		7.731	7.731	(0.994)	4638988	60.0000	59.743	
54 Ethyl Benzene	91		7.754	7.748	(0.997)	8216191	60.0000	55.765	
55 1,1,1,2-Tetrachloroethane	131		7.776	7.776	(1.000)	1399315	60.0000	58.899	
56 m,p-xylene	106		7.856	7.850	(1.010)	6465512	120.000	116.44(Q)	
58 o-Xylene	106		8.158	8.158	(1.049)	2880520	60.0000	57.239	
59 Styrene	104		8.198	8.198	(1.054)	4596335	60.0000	58.043	
60 Isopropyl Benzene	105		8.385	8.380	(0.891)	6985734	60.0000	61.456	
61 Bromoform	173		8.215	8.215	(0.873)	485388	60.0000	72.917	
62 1,1,2,2-Tetrachloroethane	83		8.738	8.733	(0.929)	595994	60.0000	61.063	
63 4-Bromofluorobenzene	95		8.585	8.585	(1.104)	266582	10.0000	8.894	
64 1,2,3-Trichloropropane	110		8.835	8.835	(0.939)	183658	60.0000	62.273(Q)	
65 Trans-1,4-Dichloro 2-Butene	53		8.869	8.863	(0.943)	141538	60.0000	59.576(QH)	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	7692432	60.0000	59.266
67 Bromobenzene	156	8.664	8.664	(0.921)	1405688	60.0000	64.587
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	4652407	60.0000	55.403
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	4861647	60.0000	59.633
70 4-Chloro Toluene	91	8.920	8.915	(0.948)	4260052	60.0000	60.326
71 T-Butyl Benzene	119	9.057	9.057	(0.962)	3766210	60.0000	53.067
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.968)	4315720	60.0000	54.309(H)
73 S-Butyl Benzene	105	9.188	9.188	(0.976)	5410698	60.0000	51.858
74 4-Isopropyl Toluene	119	9.302	9.296	(0.988)	4146573	60.0000	52.121
75 1,3-Dichlorobenzene	146	9.353	9.353	(0.994)	2113387	60.0000	57.889
76 d4-1,4-Dichlorobenzene	152	9.410	9.410	(1.000)	215334	10.0000	(Q)
77 1,4-Dichlorobenzene	146	9.421	9.421	(1.001)	2018512	60.0000	57.946
78 N-Butyl Benzene	91	9.620	9.620	(1.022)	3711454	60.0000	54.587
79 d4-1,2-Dichlorobenzene	152	9.734	9.734	(1.034)	167885	10.0000	10.025(Q)
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.035)	1589455	60.0000	57.876
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.100)	63478	60.0000	72.894
82 1,2,4-Trichlorobenzene	180	10.884	10.878	(1.157)	831738	60.0000	62.129
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	432011	60.0000	54.220
84 Naphthalene	128	11.140	11.140	(1.184)	1087519	60.0000	59.779
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.199)	522899	60.0000	57.615

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- I - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i	Calibration Date: 22-FEB-2010
Lab File ID: 6000222.d	Calibration Time: 17:11
Lab Smp Id: IC600	Client Smp ID: vstd8
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: ar	
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m	
Misc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	463099	1.51
35 1,4-Difluorobenze	740651	370326	1481302	749765	1.23
52 d5-Chlorobenzene	686240	343120	1372480	738803	7.66
76 d4-1,4-Dichlorobe	249963	124982	499926	215334	-13.85

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.41	0.00

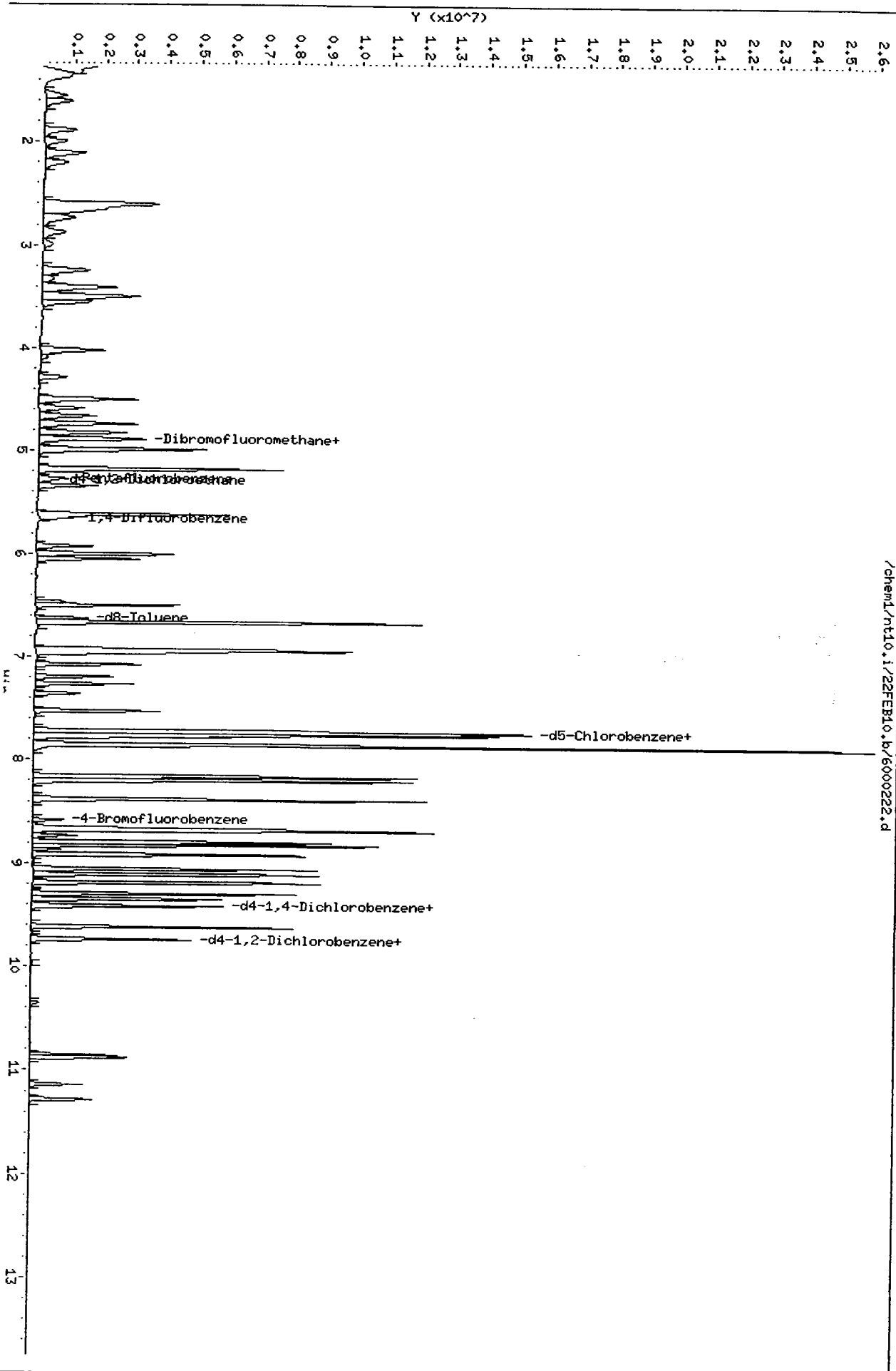
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/22FEB10.b/6000222.d
Date : 22-FEB-2010 15:12
Client ID: vstcd8
Sample Info: IC600,10,10,0

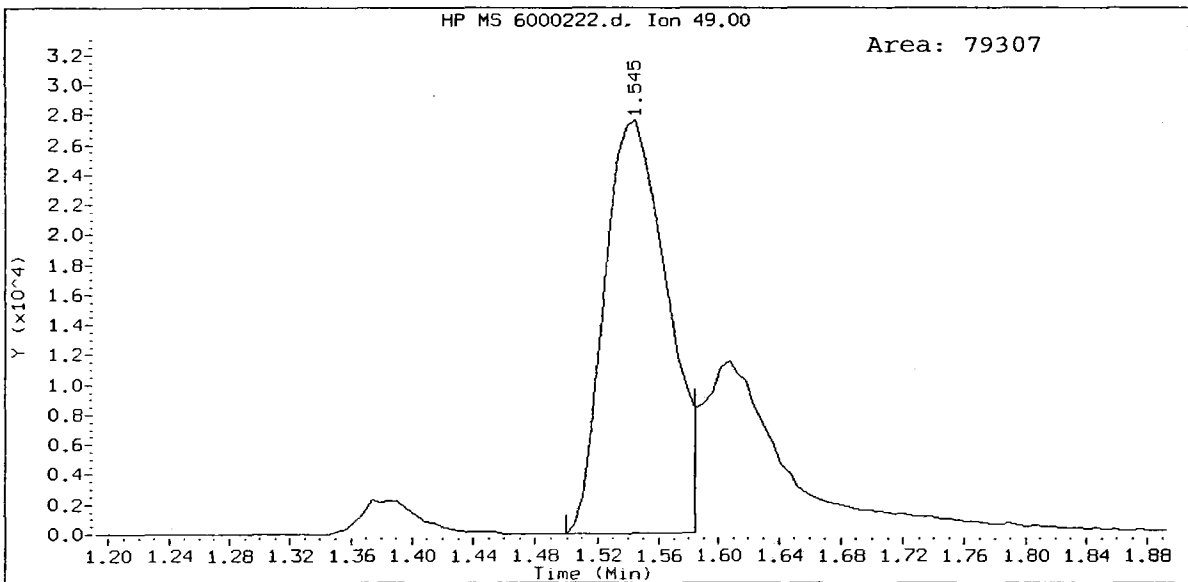
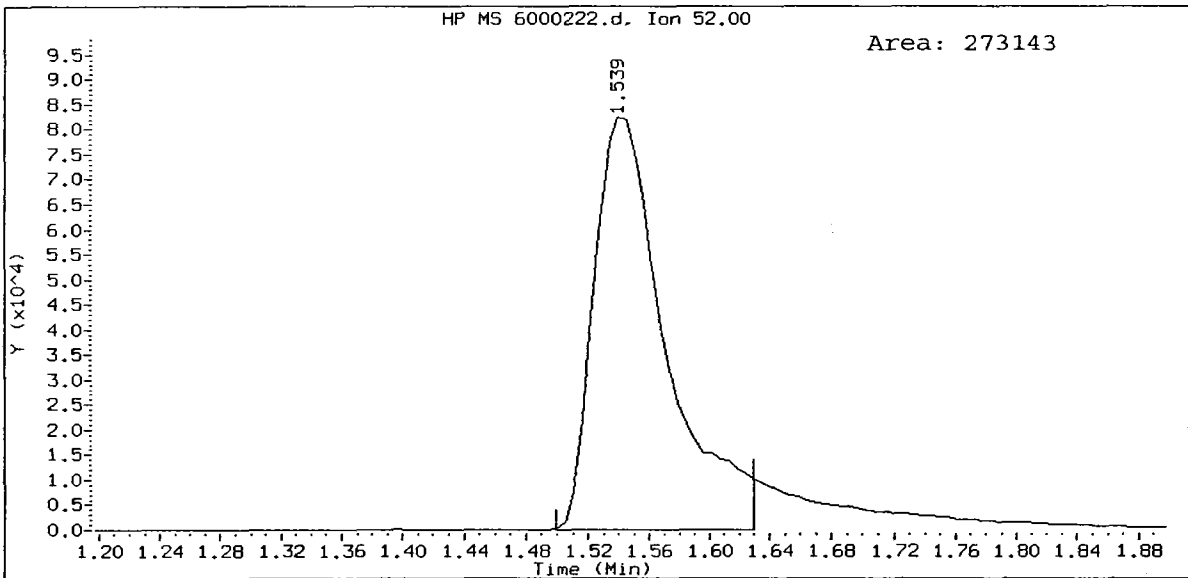
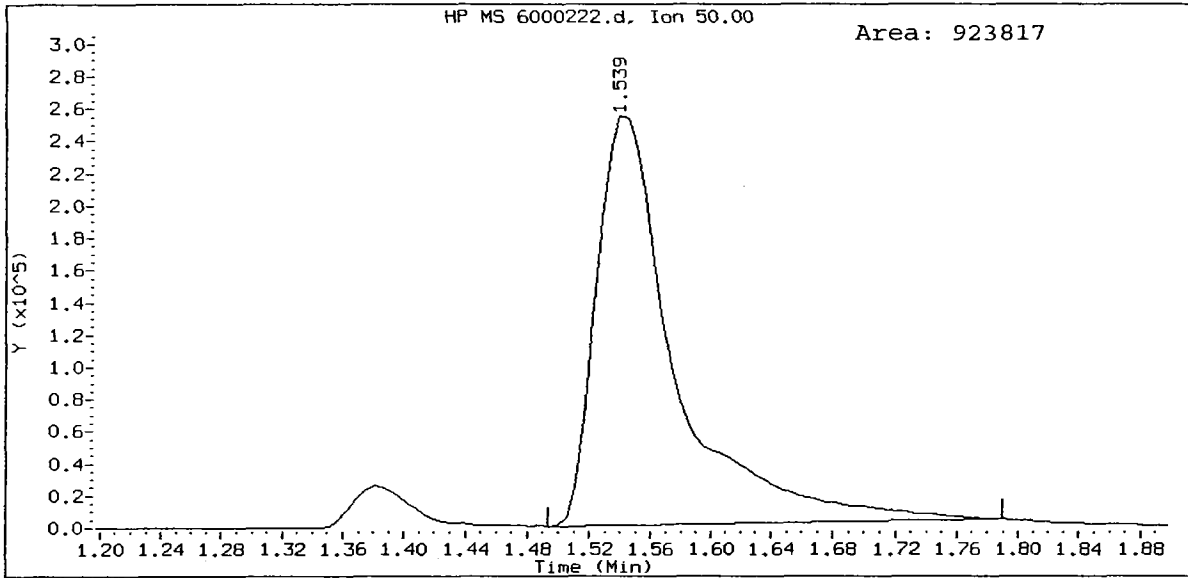
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18

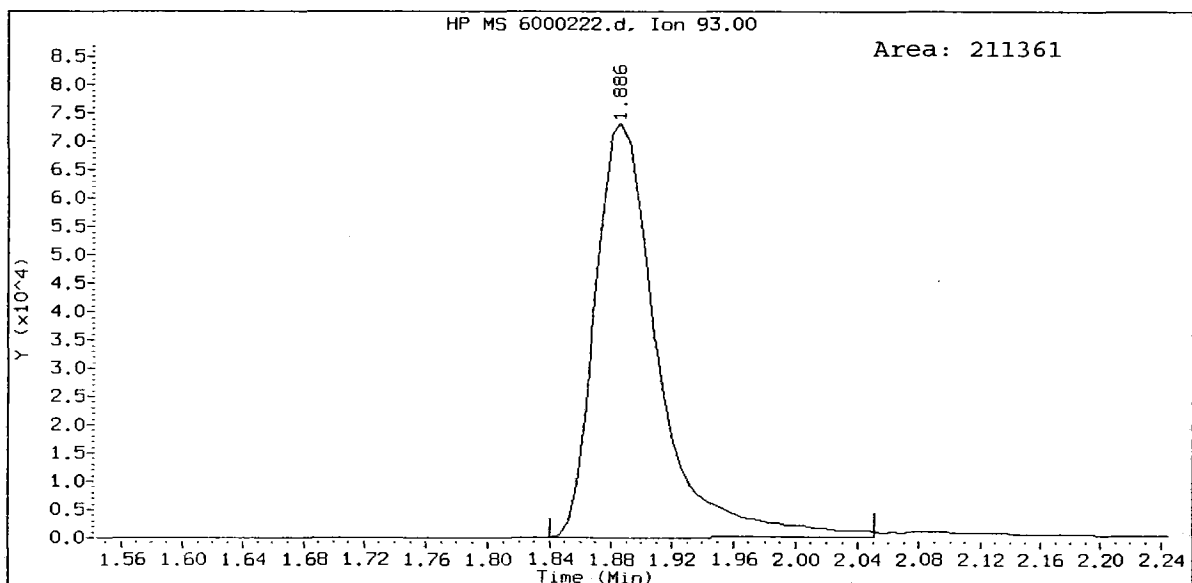
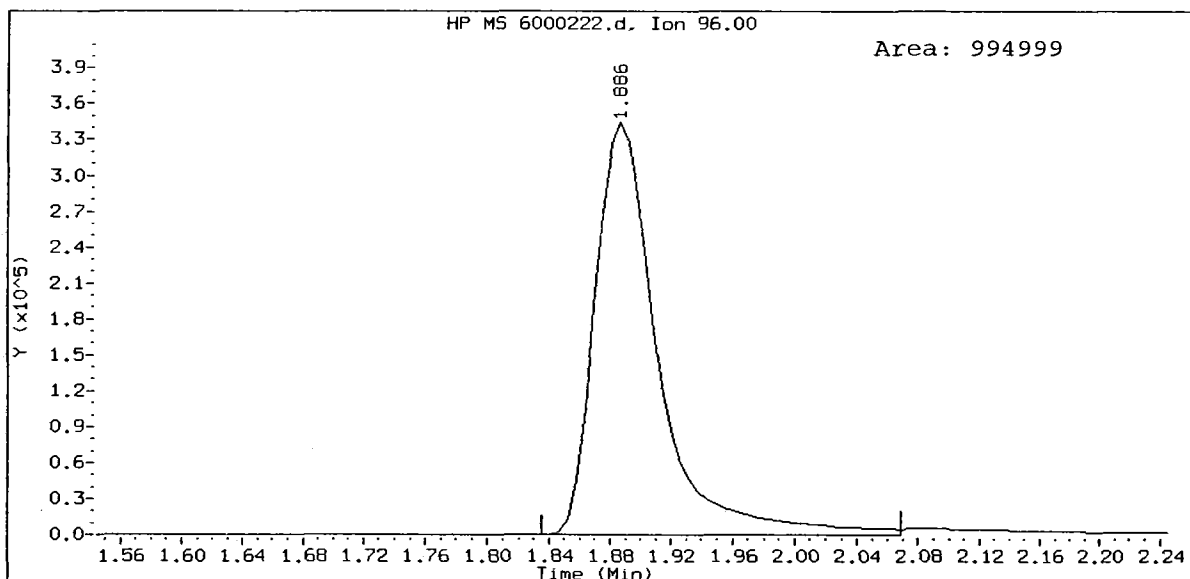
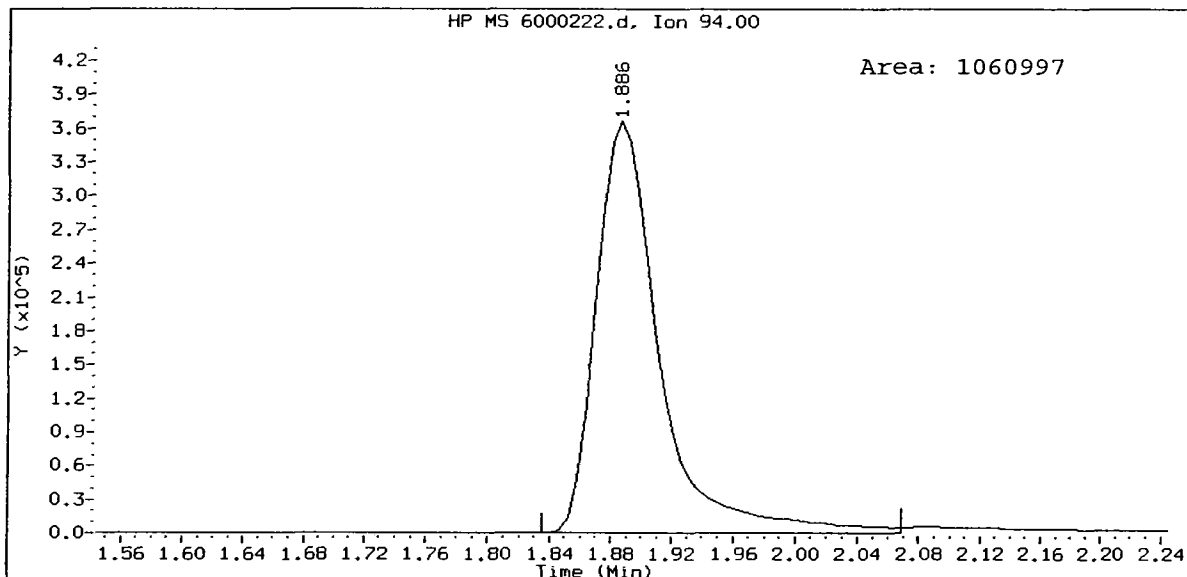
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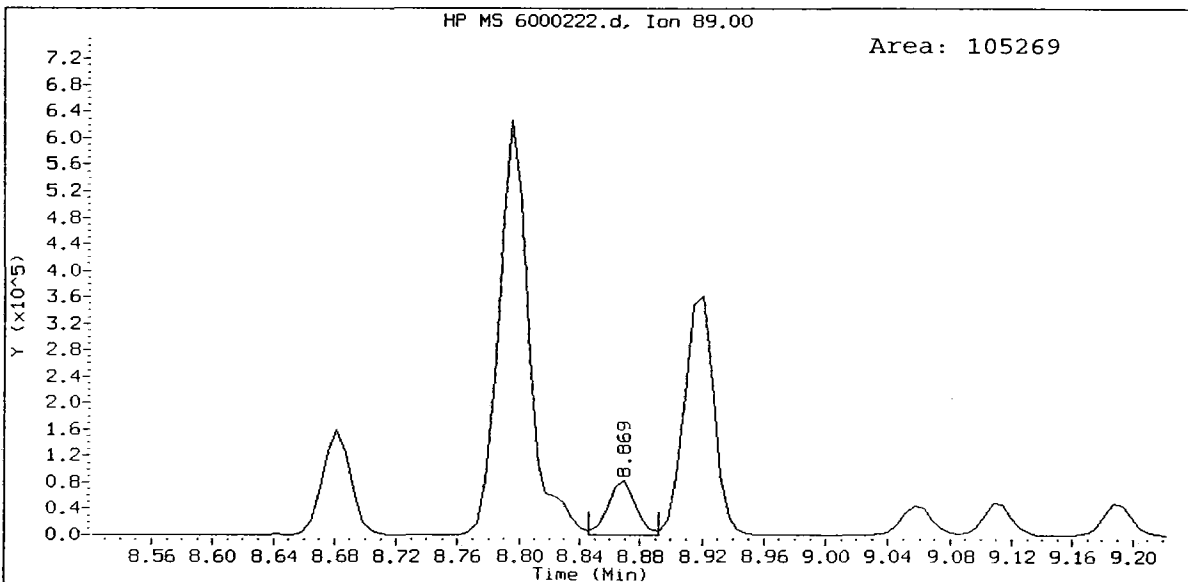
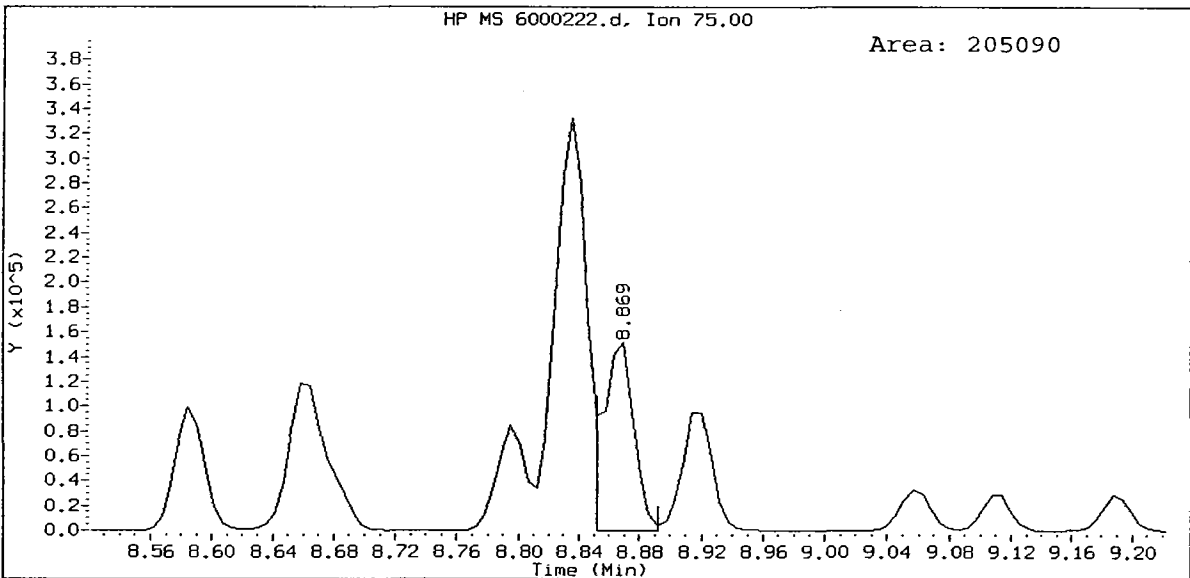
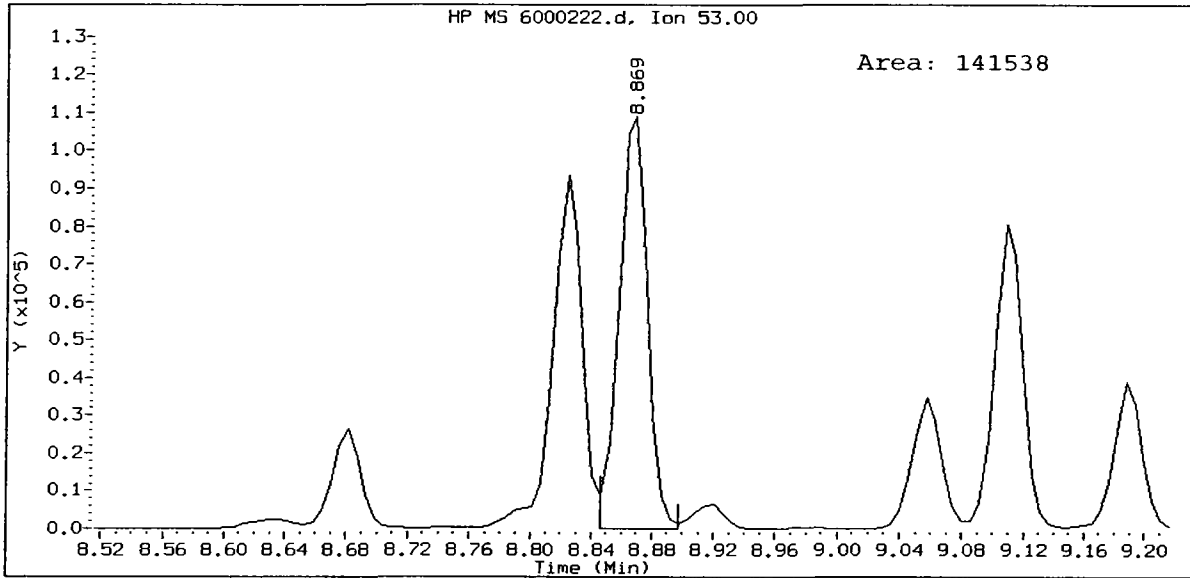
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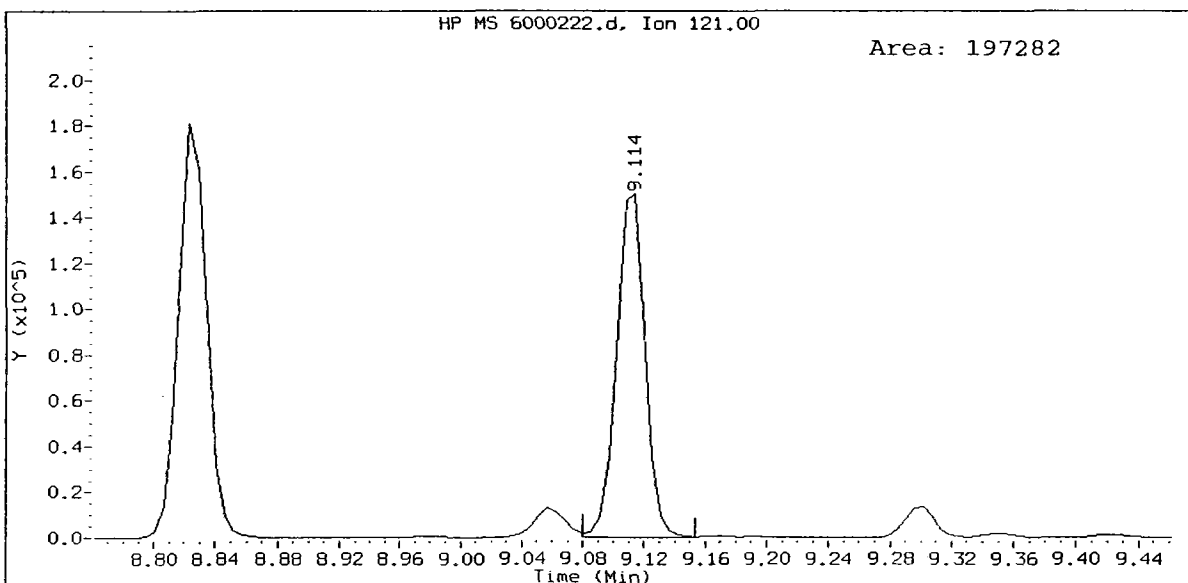
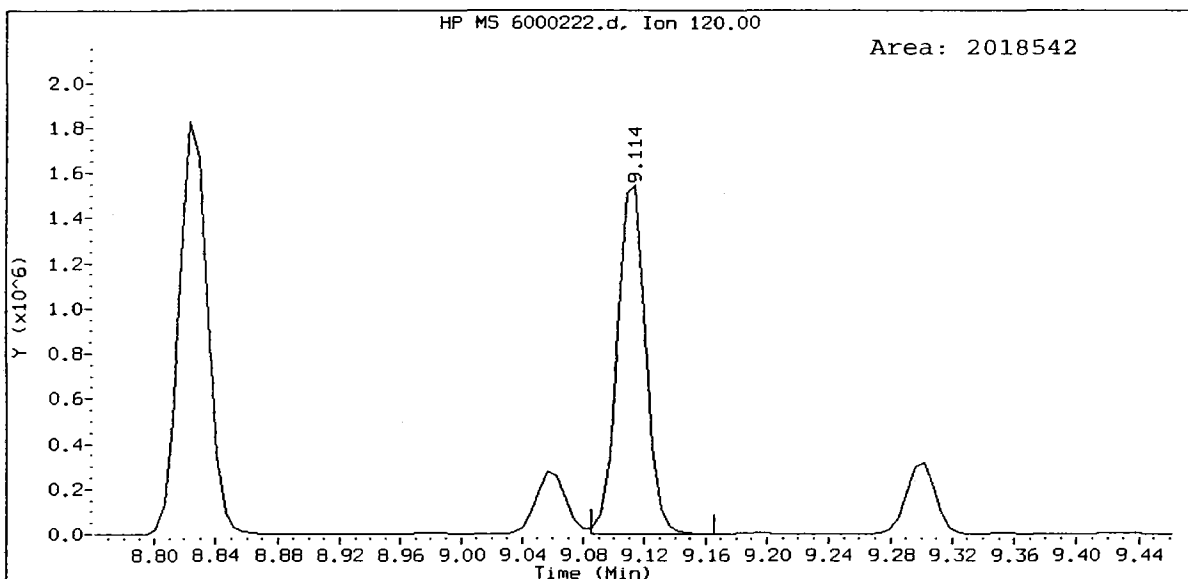
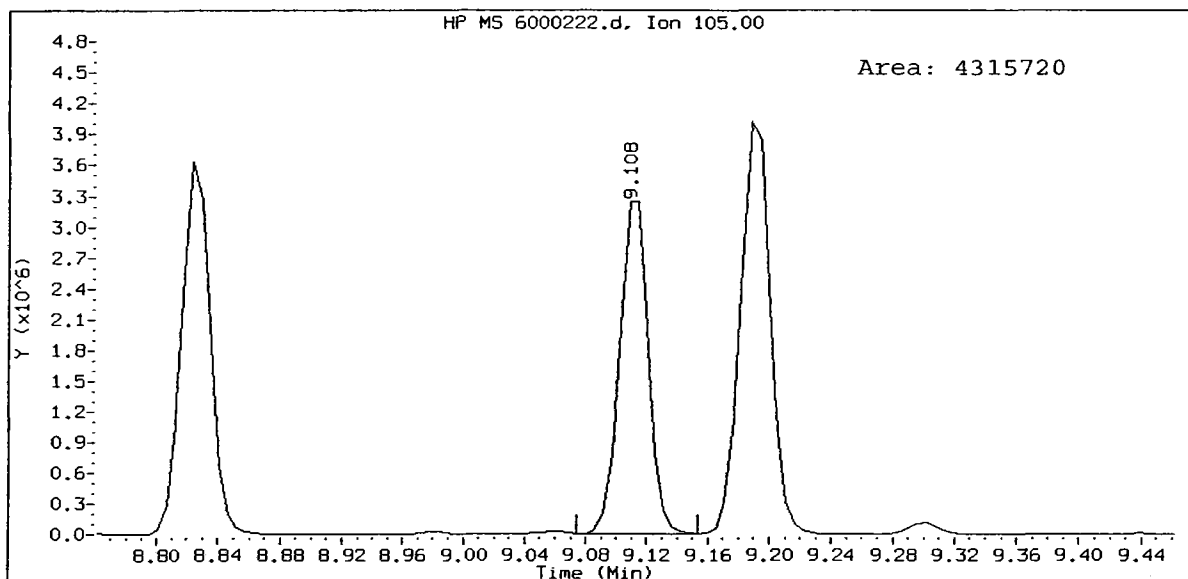
IC600, /chem1/nt10.i/22FEB10.b/6000222.d
Bromomethane Amount: 59.55



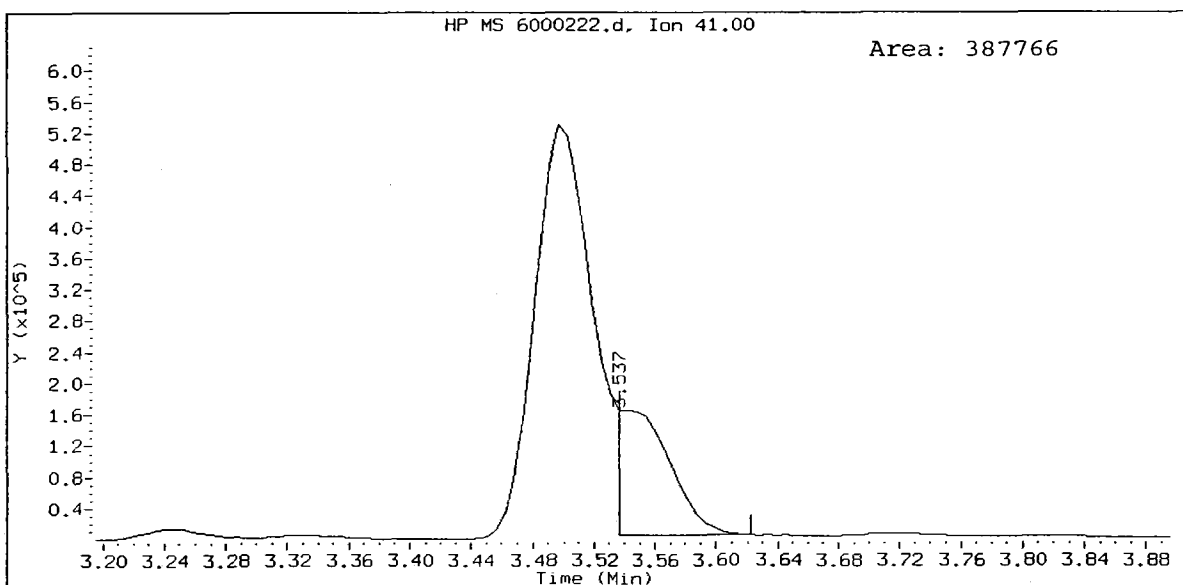
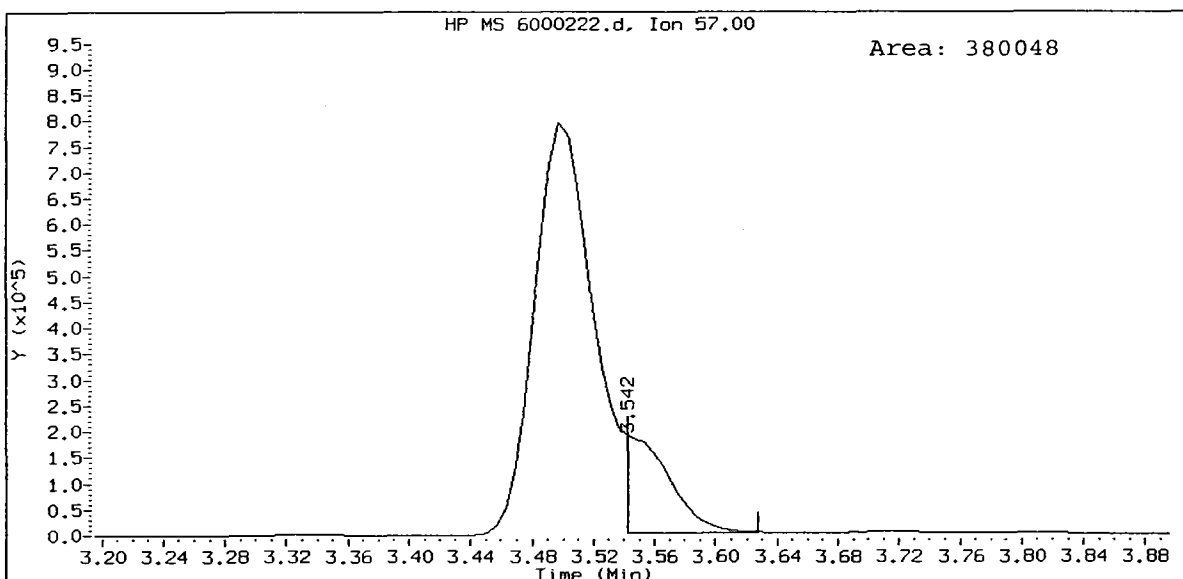
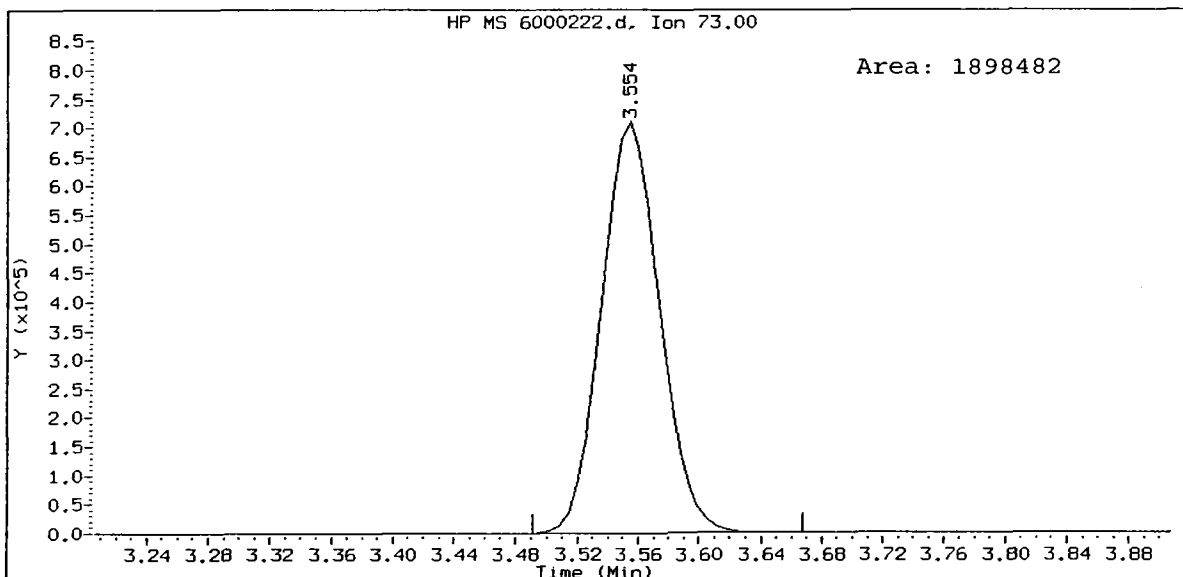
QL34: 00400



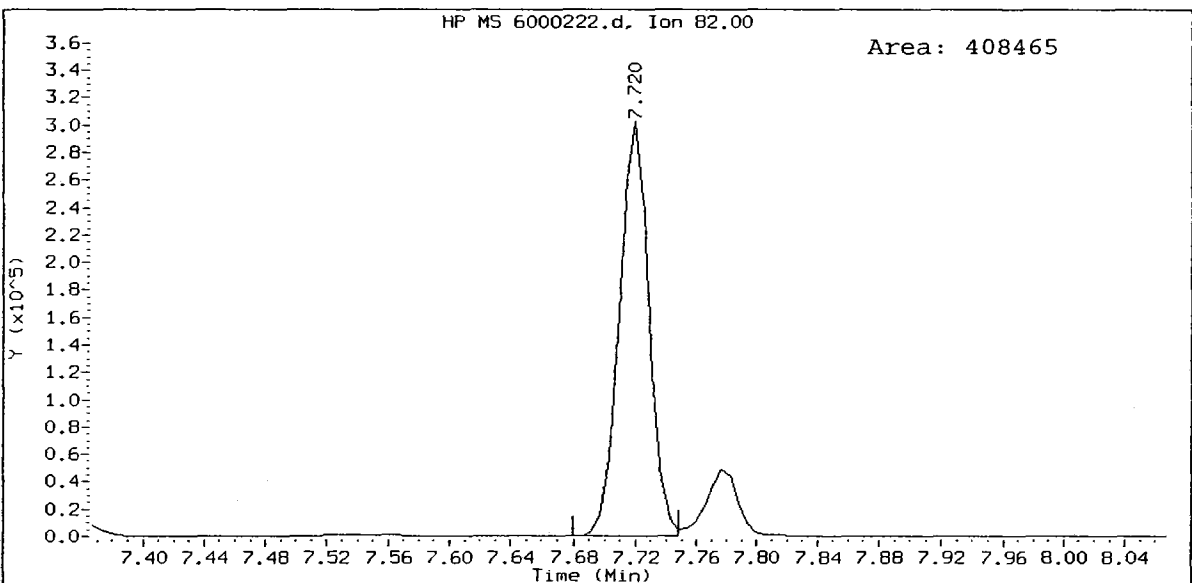
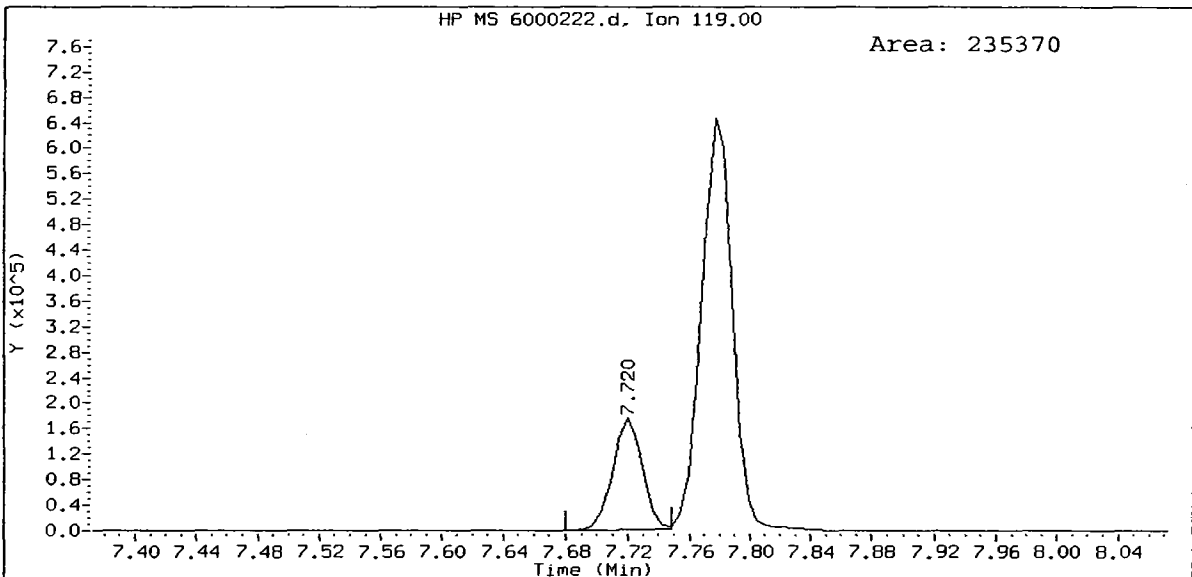
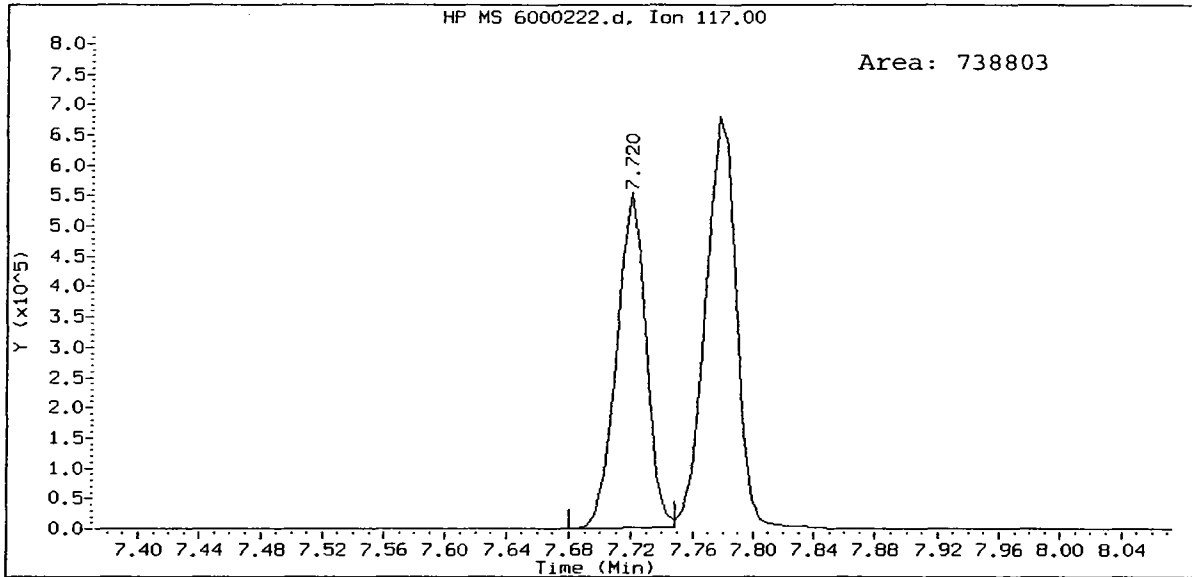
IC600, /chem1/nt10.i/22FEB10.b/6000222.d
1,2,4-Trimethylbenzene Amount: 54.31



IC600, /chem1/nt10.i/22FEB10.b/6000222.d
Methyl tert butyl ether Amount: 56.02



IC600, /chem1/nt10.i/22FEB10.b/6000222.d
d5-Chlorobenzene Amount: 10.00



Analytical Resources, Inc.

8260C
 Data file : /chem1/nt10.i/22FEB10.b/icv0222a.d
 Lab Smp Id: ICV0222 Client Smp ID: ICV0222
 Inj Date : 22-FEB-2010 19:12
 Operator : ar Inst ID: nt10.i
 Smp Info : ICV0222,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/22FEB10.b/82600122L.m
 Meth Date : 23-Feb-2010 15:01 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 600222.d
 Vls bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.385	(0.263)	125177	11.5667	11.567
2 Chloromethane	50	1.545	1.545	(0.293)	142756	8.81852	8.819 (M)
3 Vinyl Chloride	62	1.613	1.613	(0.306)	195221	10.1429	10.143
4 Bromomethane	94	1.886	1.892	(0.358)	149414	9.00055	9.001
5 Chloroethane	64	2.000	2.000	(0.379)	145521	9.62791	9.628
6 Trichlorofluoromethane	101	2.125	2.125	(0.403)	252683	9.33994	9.340
8 Acrolein	56	2.996	2.996	(0.568)	54555	43.9190	43.919
9 112Trichloro122Trifluoroethane	101	2.666	2.666	(0.506)	159576	8.83919	8.839
10 Acetone	43	3.332	3.326	(0.632)	95723	48.1463	48.146
11 1,1-Dichloroethene	96	2.609	2.609	(0.495)	200219	9.32418	9.324
12 Bromoethane	108	2.882	2.882	(0.547)	120600	9.20272	9.203
13 Iodomethane	142	2.746	2.740	(0.521)	250304	8.62478	8.625
14 Methylene Chloride	84	3.252	3.252	(0.617)	173408	9.69450	9.695
15 Acrylonitrile	53	4.089	4.089	(0.775)	23487	9.27590	9.276
16 Methyl tert butyl ether	73	3.554	3.554	(0.674)	334378	10.5904	10.590 (QM)
17 Carbon Disulfide	76	2.615	2.615	(0.496)	638482	9.08074	9.081

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
18 Trans-1,2-Dichloroethene	96	3.411	3.411	(0.647)	219198	9.71485	9.715
20 Vinyl Acetate	43	4.282	4.282	(0.812)	108877	5.45303	5.453
21 1,1-Dichloroethane	63	4.020	4.020	(0.763)	370334	10.0745	10.075
22 2-Butanone	72	4.994	4.994	(0.947)	65540	51.2520	51.252
23 2,2-Dichloropropane	77	4.584	4.584	(0.869)	133224	9.10834	9.108
24 Cis-1,2-Dichloroethene	96	4.498	4.498	(0.853)	243874	9.68790	9.688
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	431492	10.0000	
26 Chloroform	83	4.737	4.737	(0.899)	406120	10.3701	10.370
27 Bromochloromethane	128	4.663	4.663	(0.884)	88529	10.3537	10.354
28 Dibromofluoromethane	111	4.880	4.880	(0.926)	183216	10.1812	10.181
29 1,1,1-Trichloroethane	97	4.885	4.885	(0.927)	303964	9.97843	9.978
30 1,1-Dichloropropene	75	4.982	4.982	(0.880)	345031	9.89154	9.892
31 Carbon Tetrachloride	117	4.823	4.823	(0.852)	252170	9.88176	9.882
32 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	167529	10.5862	10.586
33 1,2-Dichloroethane	62	5.341	5.341	(0.944)	217856	10.2842	10.284
34 Benzene	78	5.181	5.181	(0.916)	998942	10.1370	10.137
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	702592	10.0000	
36 Trichloroethene	95	5.620	5.620	(0.993)	283779	10.7473	10.747
37 1,2-Dichloropropane	63	6.001	6.007	(1.060)	220567	10.3392	10.339
38 Bromodichloromethane	83	6.052	6.052	(1.069)	292245	10.8322	10.832
39 Dibromomethane	93	5.927	5.927	(1.047)	90768	10.6470	10.647
40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	73778	14.5685	14.569(R)
41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	182606	48.5260	48.526
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	322389	10.7369	10.737
43 d8-Toluene	98	6.633	6.633	(1.172)	853815	9.97324	9.973
44 Toluene	92	6.667	6.667	(1.178)	691451	10.2873	10.287
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	241210	10.9252	10.925
46 2-Hexanone	43	7.526	7.526	(0.975)	281423	49.2261	49.226
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	141604	10.8191	10.819
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	254925	10.8564	10.856
49 Tetrachloroethene	166	6.928	6.928	(0.898)	285485	10.0235	10.023
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	168703	10.7170	10.717
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	127406	10.9600	10.960
* 52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	655186	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	728484	10.5791	10.579
54 Ethyl Benzene	91	7.748	7.748	(1.004)	1374547	10.5200	10.520
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	223598	10.6127	10.613
56 m,p-xylene	106	7.850	7.850	(1.017)	1024369	20.8031	20.803
58 o-Xylene	106	8.158	8.158	(1.057)	470019	10.5317	10.532
59 Styrene	104	8.198	8.198	(1.062)	748652	10.6606	10.661
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1165928	9.35866	9.359
61 Bromoform	173	8.215	8.215	(0.874)	75911	10.4048	10.405
62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	110632	10.3419	10.342
63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	272525	10.2530	10.253
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	34125	10.5572	10.557
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	17191	8.46120	8.461
66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1439312	10.1178	10.118

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
67 Bromobenzene	156	8.659	8.664	(0.921)	245402	10.2877	10.288
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	942013	10.2353	10.235
69 2-Chloro Toluene	91	8.789	8.795	(0.935)	908097	10.1630	10.163
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	799634	10.3315	10.332
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	786545	10.1118	10.112
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	901413	10.3497	10.350
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1164002	10.1789	10.179
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	900037	10.3223	10.322
75 1,3-Dichlorobenzene	146	9.347	9.353	(0.994)	419109	10.4745	10.475
76 d4-1,4-Dichlorobenzene	152	9.404	9.410	(1.000)	236007	10.0000	
77 1,4-Dichlorobenzene	146	9.415	9.421	(1.001)	397770	10.4187	10.419
78 N-Butyl Benzene	91	9.615	9.620	(1.022)	752497	10.0981	10.098
79 d4-1,2-Dichlorobenzene	152	9.728	9.734	(1.034)	178579	9.72982	9.730
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	310368	10.3113	10.311
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.355	(1.101)	10373	10.8682	10.868
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	148343	10.1102	10.110
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	85575	9.79936	9.799
84 Naphthalene	128	11.140	11.140	(1.185)	203436	10.2030	10.203
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	108701	10.9280	10.928

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i	Calibration Date: 22-FEB-2010
Lab File ID: icv0222a.d	Calibration Time: 17:11
Lab Smp Id: ICV0222	Client Smp ID: ICV0222
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: ar	
Method File: /chem1/nt10.i/22FEB10.b/82600122L.m	
Misc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	431492	-5.42
35 1,4-Difluorobenze	740651	370326	1481302	702592	-5.14
52 d5-Chlorobenzene	686240	343120	1372480	655186	-4.53
76 d4-1,4-Dichlorobe	249963	124982	499926	236007	-5.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.40	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 22FEB10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV0222 Client Smp ID: ICV0222
 Level: LOW Operator: ar
 Data Type: MS DATA SampleType: LCS
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/22FEB10.b/82600122L.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	11.567	115.67	59-129
2 Chloromethane	10.000	8.819	88.19	66-123
3 Vinyl Chloride	10.000	10.143	101.43	68-121
4 Bromomethane	10.000	9.001	90.01	55-148
5 Chloroethane	10.000	9.628	96.28	47-155
6 Trichlorofluoromet	10.000	9.340	93.40	70-129
8 Acrolein	50.000	43.919	87.84	24-170
9 112Trichloro122Tri	10.000	8.839	88.39	74-127
10 Acetone	50.000	48.146	96.29	70-130
11 1,1-Dichloroethene	10.000	9.324	93.24	72-120
12 Bromoethane	10.000	9.203	92.03	73-131
13 Iodomethane	10.000	8.625	86.25	34-183
14 Methylene Chloride	10.000	9.695	96.95	70-124
15 Acrylonitrile	10.000	9.276	92.76	71-135
17 Carbon Disulfide	10.000	9.081	90.81	66-129
16 Methyl tert butyl	10.000	10.590	105.90	78-120
18 Trans-1,2-Dichloro	10.000	9.715	97.15	76-120
20 Vinyl Acetate	10.000	5.453	54.53	49-134
21 1,1-Dichloroethane	10.000	10.075	100.75	75-120
22 2-Butanone	50.000	51.252	102.50	78-131
23 2,2-Dichloropropan	10.000	9.108	91.08	68-121
24 Cis-1,2-Dichloroet	10.000	9.688	96.88	80-120
26 Chloroform	10.000	10.370	103.70	78-120
27 Bromochloromethane	10.000	10.354	103.54	79-120
29 1,1,1-Trichloroeth	10.000	9.978	99.78	76-120
30 1,1-Dichloropropen	10.000	9.892	98.92	78-120
31 Carbon Tetrachlori	10.000	9.882	98.82	70-126
33 1,2-Dichloroethane	10.000	10.284	102.84	78-120
34 Benzene	10.000	10.137	101.37	79-120
36 Trichloroethene	10.000	10.747	107.47	78-120
37 1,2-Dichloropropan	10.000	10.339	103.39	80-120
38 Bromodichlorometha	10.000	10.832	108.32	78-120
39 Dibromomethane	10.000	10.647	106.47	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	14.569	145.69*	68-134
41 4-Methyl-2-Pentano	50.000	48.526	97.05	73-131
42 Cis 1,3-dichloropr	10.000	10.737	107.37	78-120
44 Toluene	10.000	10.287	102.87	79-120
45 Trans 1,3-Dichloro	10.000	10.925	109.25	75-120
46 2-Hexanone	50.000	49.226	98.45	75-130
47 1,1,2-Trichloroeth	10.000	10.819	108.19	79-120
48 1,3-Dichloropropan	10.000	10.856	108.56	78-120
49 Tetrachloroethene	10.000	10.023	100.23	72-120
50 Chlorodibromometha	10.000	10.717	107.17	78-120
51 1,2-Dibromoethane	10.000	10.960	109.60	75-120
53 Chlorobenzene	10.000	10.579	105.79	79-120
55 1,1,1,2-Tetrachlor	10.000	10.613	106.13	75-120
54 Ethyl Benzene	10.000	10.520	105.20	78-120
56 m,p-xylene	20.000	20.803	104.02	65-129
58 o-Xylene	10.000	10.532	105.32	76-120
59 Styrene	10.000	10.661	106.61	74-121
60 Isopropyl Benzene	10.000	9.359	93.59	74-120
61 Bromoform	10.000	10.405	104.05	71-120
62 1,1,2,2-Tetrachlor	10.000	10.342	103.42	70-120
64 1,2,3-Trichloropro	10.000	10.557	105.57	73-120
65 Trans-1,4-Dichloro	10.000	8.461	84.61	65-135
66 N-Propyl Benzene	10.000	10.118	101.18	76-121
67 Bromobenzene	10.000	10.288	102.88	72-120
68 1,3,5-Trimethyl Be	10.000	10.235	102.35	74-123
69 2-Chloro Toluene	10.000	10.163	101.63	74-120
70 4-Chloro Toluene	10.000	10.332	103.32	75-120
71 T-Butyl Benzene	10.000	10.112	101.12	73-121
72 1,2,4-Trimethylben	10.000	10.350	103.50	73-124
73 S-Butyl Benzene	10.000	10.179	101.79	75-123
74 4-Isopropyl Toluen	10.000	10.322	103.22	71-125
75 1,3-Dichlorobenzen	10.000	10.475	104.75	72-120
77 1,4-Dichlorobenzen	10.000	10.419	104.19	76-120
78 N-Butyl Benzene	10.000	10.098	100.98	72-124
80 1,2-Dichlorobenzen	10.000	10.311	103.11	75-120
81 1,2-Dibromo 3-Chlo	10.000	10.868	108.68	67-121
82 1,2,4-Trichloroben	10.000	10.110	101.10	71-120
83 Hexachloro 1,3-But	10.000	9.799	97.99	67-124
84 Naphthalene	10.000	10.203	102.03	71-125
85 1,2,3-Trichloroben	10.000	10.928	109.28	61-134

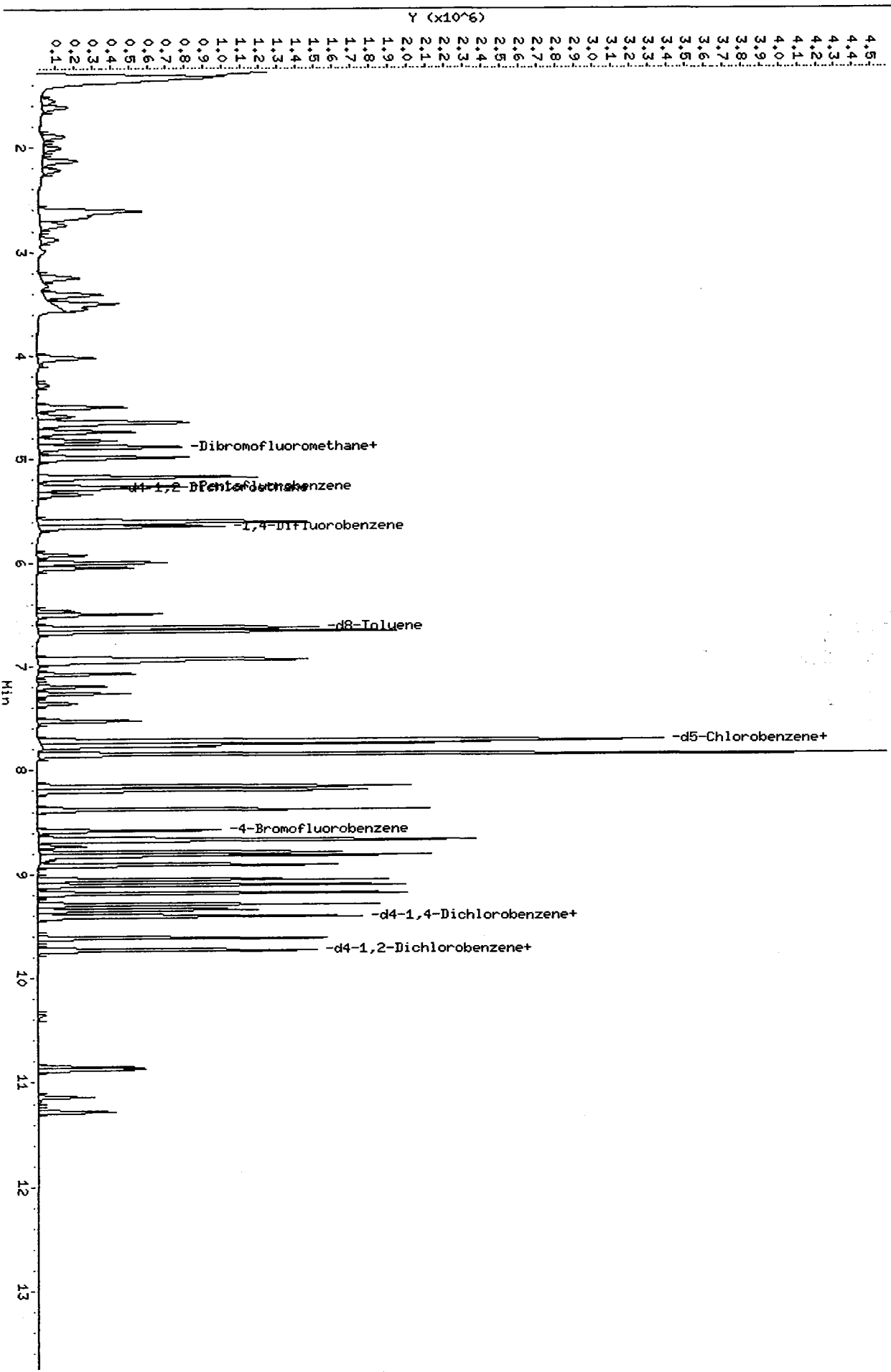
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 Dibromofluorometha	10.000	10.181	101.81	60-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 d4-1,2-Dichloroeth	10.000	10.586	105.86	80-143
\$ 43 d8-Toluene	10.000	9.973	99.73	80-120
\$ 63 4-Bromofluorobenze	10.000	10.253	102.53	80-120
\$ 79 d4-1,2-Dichloroben	10.000	9.730	97.30	80-120

Data File: /chem1/nt10.i/22FEB10.b/icv0222a.d
Date: 22-FEB-2010 19:12
Client ID: ICV0222
Sample Info: ICV0222,10,10,0
Column phase: RTX502.2

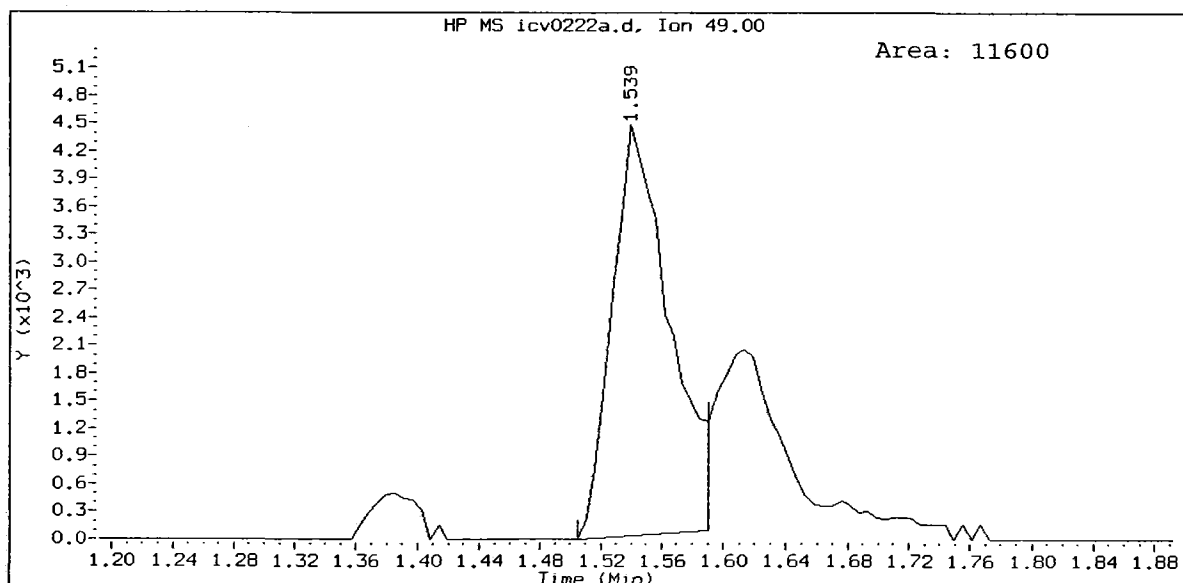
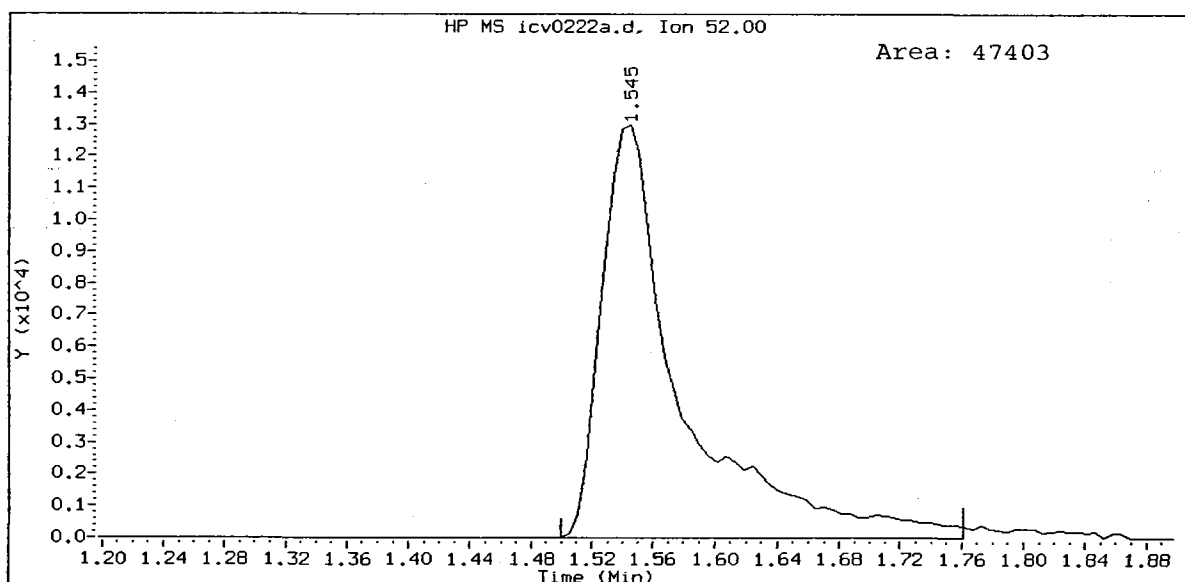
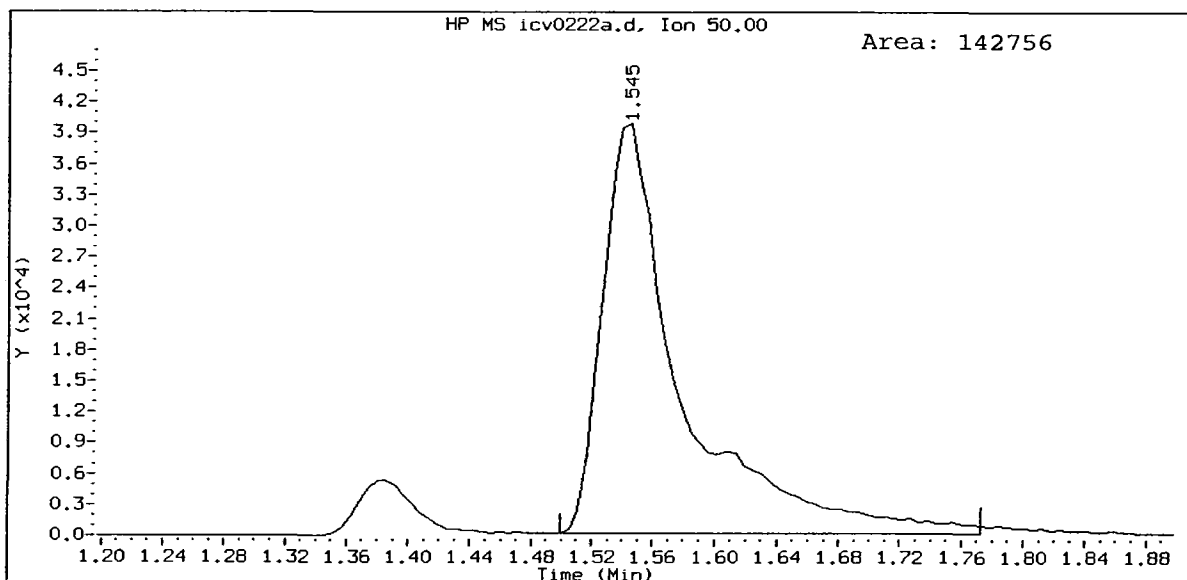
Instrument: nt10.i
Operator: ar
Column diameter: 0.18

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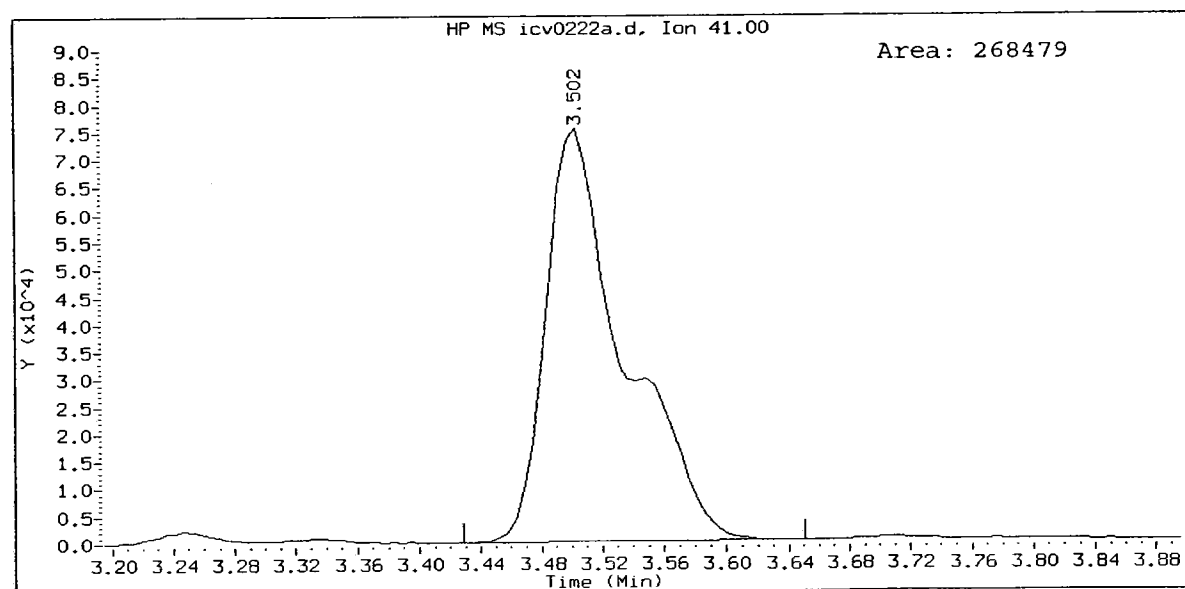
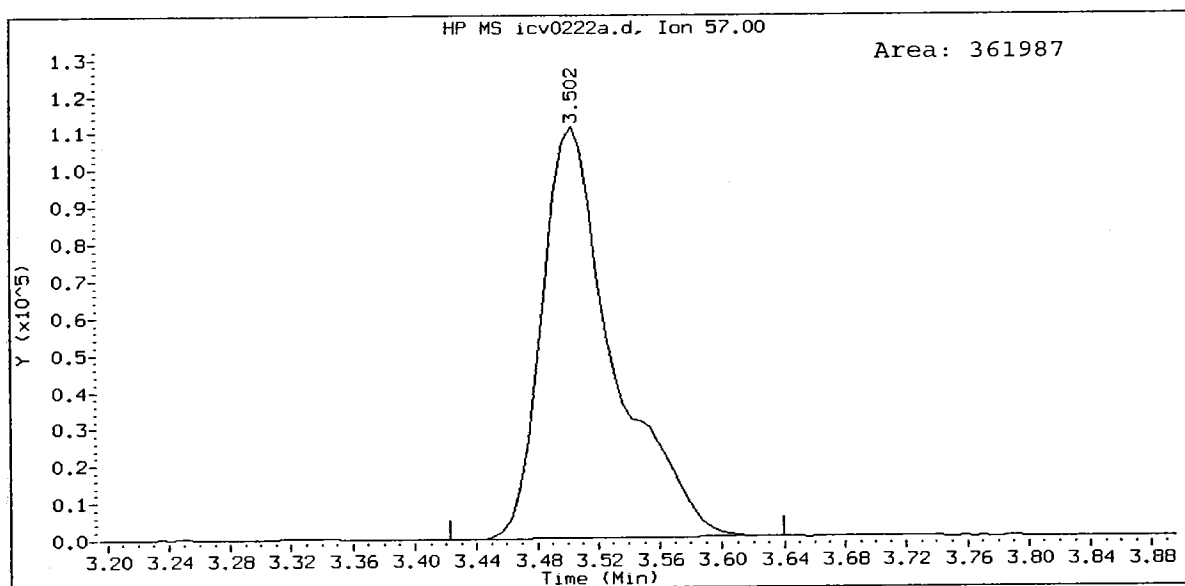
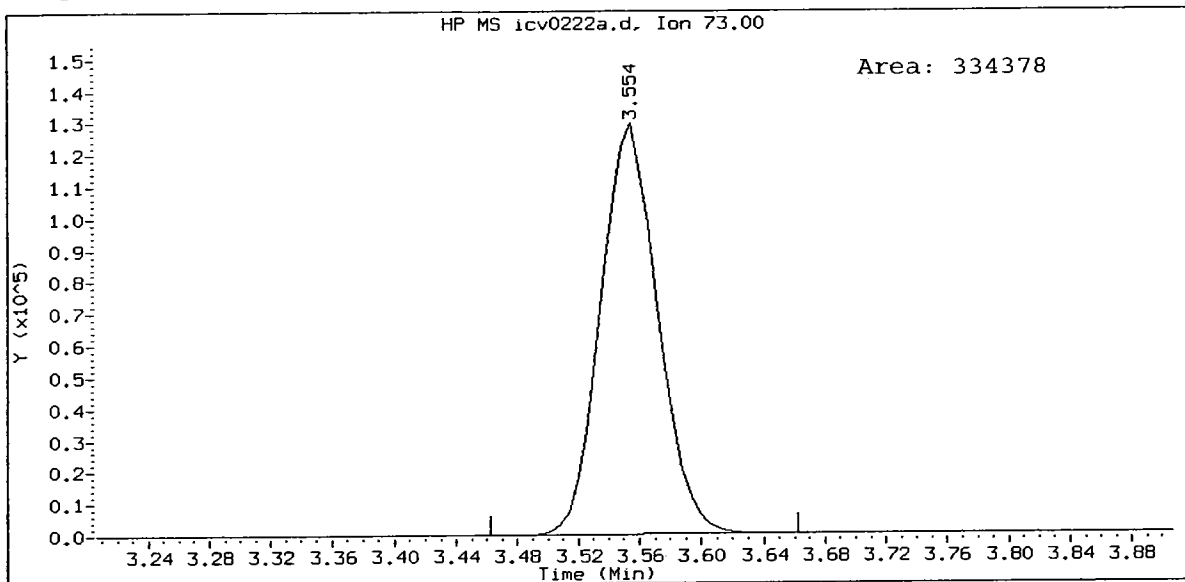
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ICV0222, /chem1/nt10.i/22FEB10.b/icv0222a.d
Chloromethane Amount: 8.82



QL34:00413

ICV0222, /chem1/nt10.i/22FEB10.b/icv0222a.d
Methyl tert butyl ether Amount: 10.59



VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Cont. Calib. Date: 02/25/10

Init. Calib. Date: 01/28/10

Cont. Calib. Time: 1000

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Chloromethane	0.494	0.458	0.100	AVRG	-7.3
Vinyl Chloride	0.593	0.520	0.010	AVRG	-12.3
Bromomethane	0.395	0.350	0.010	AVRG	-11.4
Chloroethane	0.389	0.369	0.010	AVRG	-5.1
Trichlorofluoromethane	0.698	0.656	0.010	AVRG	-6.0
Acrolein	0.026	0.046	0.010	AVRG	76.9
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.532	0.530	0.010	AVRG	-0.4
Acetone	0.050	0.049	0.010	AVRG	-2.0
1,1-Dichloroethene	0.554	0.504	0.010	AVRG	-9.0
Bromoethane	0.402	0.368	0.010	AVRG	-8.4
Iodomethane	0.806	0.710	0.010	AVRG	-11.9
Methylene Chloride	0.549	0.497	0.010	AVRG	-9.5
Acrylonitrile	0.080	0.075	0.010	AVRG	-6.2
Carbon Disulfide	1.788	1.712	0.010	AVRG	-4.2
Trans-1,2-Dichloroethene	0.604	0.558	0.010	AVRG	-7.6
Vinyl Acetate	0.527	0.486	0.010	AVRG	-7.8
1,1-Dichloroethane	0.884	0.876	0.100	AVRG	-0.9
2-Butanone	0.032	0.031	0.010	AVRG	-3.1
2,2-Dichloropropane	0.777	0.765	0.010	AVRG	-1.5
Cis-1,2-Dichloroethene	0.602	0.561	0.010	AVRG	-6.8
Chloroform	0.865	0.822	0.010	AVRG	-5.0
Bromochloromethane	0.245	0.238	0.010	AVRG	-2.8
1,1,1-Trichloroethane	0.782	0.764	0.010	AVRG	-2.3
1,1-Dichloropropene	0.493	0.452	0.010	AVRG	-8.3
Carbon Tetrachloride	0.419	0.436	0.010	AVRG	4.0
1,2-Dichloroethane	0.320	0.310	0.010	AVRG	-3.1
Benzene	1.488	1.457	0.010	AVRG	-2.1
Trichloroethene	0.416	0.390	0.010	AVRG	-6.2
1,2-Dichloropropane	0.326	0.317	0.010	AVRG	-2.8
Bromodichloromethane	0.380	0.358	0.010	AVRG	-5.8
Dibromomethane	0.144	0.138	0.010	AVRG	-4.2
2-Chloroethyl Vinyl Ether	0.118	0.084	0.010	AVRG	-28.8
4-Methyl-2-Pentanone	0.058	0.060	0.010	AVRG	3.4
Cis 1,3-dichloropropene	0.520	0.497	0.010	AVRG	-4.4
Toluene	0.993	0.967	0.010	AVRG	-2.6
Trans 1,3-Dichloropropene	0.420	0.389	0.010	AVRG	-7.4
2-Hexanone	0.096	0.096	0.010	AVRG	0.0

<- Exceeds QC limit of 20% D

* RF less than minimum RF

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Cont. Calib. Date: 02/25/10

Init. Calib. Date: 01/28/10

Cont. Calib. Time: 1000

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
1,1,2-Trichloroethane	0.222	0.219	0.010	AVRG	-1.4
1,3-Dichloropropane	0.453	0.438	0.010	AVRG	-3.3
Tetrachloroethene	0.492	0.462	0.010	AVRG	-6.1
Chlorodibromomethane	0.302	0.281	0.010	AVRG	-7.0
1,2-Dibromoethane	0.216	0.204	0.010	AVRG	-5.6
Chlorobenzene	1.183	1.127	0.300	AVRG	-4.7
Ethyl Benzene	2.191	2.162	0.010	AVRG	-1.3
1,1,1,2-Tetrachloroethane	0.393	0.368	0.010	AVRG	-6.4
m,p-xylene	0.831	0.805	0.010	AVRG	-3.1
o-Xylene	0.804	0.760	0.010	AVRG	-5.5
Styrene	1.311	1.208	0.010	AVRG	-7.8
Bromoform	0.285	0.265	0.100	AVRG	-7.0
1,1,2,2-Tetrachloroethane	0.478	0.421	0.300	AVRG	-11.9
1,2,3-Trichloropropane	0.135	0.127	0.010	AVRG	-5.9
Trans-1,4-Dichloro 2-Butene	0.126	0.111	0.010	AVRG	-11.9
N-Propyl Benzene	4.300	4.094	0.010	AVRG	-4.8
Bromobenzene	0.917	0.811	0.010	AVRG	-11.6
Isopropyl Benzene	3.829	3.598	0.010	AVRG	-6.0
2-Chloro Toluene	2.613	2.407	0.010	AVRG	-7.9
4-Chloro Toluene	2.652	2.432	0.010	AVRG	-8.3
T-Butyl Benzene	2.743	2.508	0.010	AVRG	-8.6
1,3,5-Trimethyl Benzene	3.177	2.946	0.010	AVRG	-7.3
1,2,4-Trimethylbenzene	3.207	2.942	0.010	AVRG	-8.3
S-Butyl Benzene	3.911	3.738	0.010	AVRG	-4.4
4-Isopropyl Toluene	3.298	3.063	0.010	AVRG	-7.1
1,3-Dichlorobenzene	1.836	1.626	0.010	AVRG	-11.4
1,4-Dichlorobenzene	1.870	1.613	0.010	AVRG	-13.7
N-Butyl Benzene	2.847	2.682	0.010	AVRG	-5.8
1,2-Dichlorobenzene	1.611	1.441	0.010	AVRG	-10.6
1,2-Dibromo 3-Chloropropane	0.083	0.065	0.010	AVRG	-21.7 <-
1,2,4-Trichlorobenzene	1.086	0.910	0.010	AVRG	-16.2
Hexachloro 1,3-Butadiene	0.401	0.418	0.010	AVRG	4.2
Naphthalene	1.920	1.569	0.010	AVRG	-18.3
1,2,3-Trichlorobenzene	0.867	0.776	0.010	AVRG	-10.5
Dichlorodifluoromethane	0.348	0.265	0.010	AVRG	-23.8 <-
Methyl tert butyl ether	1.064	1.014	0.010	AVRG	-4.7
=====	=====	=====	=====	=====	=====

<- Exceeds QC limit of 20% D

* RF less than minimum RF

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT5

Cont. Calib. Date: 02/25/10

Init. Calib. Date: 01/28/10

Cont. Calib. Time: 1000

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
d4-1,2-Dichloroethane	0.316	0.336	0.010	AVRG	6.3
d8-Toluene	1.088	1.084	0.010	AVRG	-0.4
4-Bromofluorobenzene	0.450	0.430	0.010	AVRG	-4.4
d4-1,2-Dichlorobenzene	0.883	0.869	0.010	AVRG	-1.6
Dibromofluoromethane	0.353	0.348	0.010	AVRG	-1.4

<- Exceeds QC limit of 20% D

* RF less than minimum RF

PC
2/26/10

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/25FEB10.b/02251002.d
Lab Smp Id: CC0225 Client Smp ID: CC0225
Inj Date : 25-FEB-2010 10:00
Operator : PC Inst ID: nt5.i
Smp Info : CC0225,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:57 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Compound Sublist: voa.sub
Integrator: HP RTE
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	108705	10.0000	7.603 (M)
2 Chloromethane	50	1.164	1.164	(0.246)	187637	10.0000	9.267
3 Vinyl Chloride	62	1.221	1.221	(0.258)	213444	10.0000	8.781
4 Bromomethane	94	1.447	1.447	(0.305)	143728	10.0000	8.869
5 Chloroethane	64	1.543	1.543	(0.326)	151381	10.0000	9.483 (M)
6 Trichlorofluoromethane	101	1.651	1.651	(0.348)	269110	10.0000	9.395
12 Acrolein	56	2.324	2.324	(0.490)	94122	50.0000	86.820
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.092	2.092	(0.441)	217190	10.0000	9.960
14 Acetone	43	2.584	2.584	(0.545)	101262	50.0000	49.187
7 1,1-Dichloroethene	96	2.041	2.041	(0.431)	206819	10.0000	9.107
11 Bromoethane	108	2.250	2.250	(0.475)	150951	10.0000	9.173
10 Iodomethane	142	2.149	2.149	(0.453)	291020	10.0000	8.800
13 Methylene Chloride	84	2.528	2.528	(0.533)	203913	10.0000	9.055
18 Acrylonitrile	53	3.348	3.348	(0.706)	30922	10.0000	9.380
16 Methyl tert butyl ether	73	2.805	2.805	(0.592)	415949	10.0000	9.533
8 Carbon Disulfide	76	2.052	2.052	(0.433)	702100	10.0000	9.572

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/L)	ON-COL (ug/L)
15 Trans-1,2-Dichloroethene	96	2.675	2.675	(0.564)	228888	10.0000	9.239
19 Vinyl Acetate	43	3.597	3.597	(0.759)	199549	10.0000	9.226
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	359351	10.0000	9.905
29 2-Butanone	72	4.400	4.400	(0.928)	64014	50.0000	48.985
21 2,2-Dichloropropane	77	3.925	3.925	(0.828)	313905	10.0000	9.846
20 Cis-1,2-Dichloroethene	96	3.823	3.823	(0.807)	230170	10.0000	9.314
32 Pentafluorobenzene	168	4.740	4.740	(1.000)	410112	10.0000	
23 Chloroform	83	4.100	4.100	(0.865)	337069	10.0000	9.505
22 Bromochloromethane	128	4.004	4.004	(0.845)	97801	10.0000	9.732
25 Dibromofluoromethane	111	4.264	4.264	(0.900)	142893	10.0000	9.862
26 1,1,1-Trichloroethane	97	4.264	4.264	(0.900)	313401	10.0000	9.777
28 1,1-Dichloropropene	75	4.389	4.389	(0.846)	284050	10.0000	9.152
24 Carbon Tetrachloride	117	4.196	4.196	(0.809)	273970	10.0000	10.400
31 d4-1,2-Dichloroethane	65	4.728	4.728	(0.998)	137987	10.0000	10.665
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	194673	10.0000	9.663
30 Benzene	78	4.609	4.609	(0.889)	916580	10.0000	9.791
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	628981	10.0000	
34 Trichloroethene	130	5.136	5.136	(0.990)	245181	10.0000	9.383
38 1,2-Dichloropropane	63	5.582	5.582	(1.076)	199274	10.0000	9.725
39 Bromodichloromethane	83	5.656	5.656	(1.091)	225416	10.0000	9.419
37 Dibromomethane	93	5.486	5.486	(1.058)	86660	10.0000	9.560
40 2-Chloroethyl Vinyl Ether	63	6.176	6.176	(1.191)	53104	10.0000	7.188
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	188841	50.0000	51.414
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	312376	10.0000	9.544
42 d8-Toluene	98	6.352	6.352	(1.225)	682015	10.0000	9.968
43 Toluene	92	6.391	6.391	(1.232)	608535	10.0000	9.740
46 Trans 1,3-Dichloropropene	75	6.759	6.759	(1.303)	244550	10.0000	9.252
51 2-Hexanone	43	7.455	7.455	(0.974)	265890	50.0000	49.917
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	137676	10.0000	9.854
49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	243700	10.0000	9.658
44 Tetrachloroethene	166	6.708	6.708	(0.877)	257283	10.0000	9.389
48 Chlorodibromomethane	129	7.019	7.019	(0.917)	156487	10.0000	9.320
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	128247	10.0000	9.417
52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	556528	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.001)	627215	10.0000	9.526
54 Ethyl Benzene	91	7.709	7.709	(1.007)	1203509	10.0000	9.870 (M)
55 1,1,1,2-Tetrachloroethane	131	7.732	7.732	(1.010)	204997	10.0000	9.361
56 m,p-xylene	106	7.840	7.840	(1.024)	896514	20.0000	19.385
57 o-Xylene	106	8.202	8.202	(1.072)	422845	10.0000	9.453
58 Styrene	104	8.252	8.252	(1.078)	672100	10.0000	9.208
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1060784	10.0000	9.397
59 Bromoform	173	8.247	8.247	(0.849)	78032	10.0000	9.282
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	124102	10.0000	8.809
61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	239124	10.0000	9.548
66 1,2,3-Trichloropropane	110	9.022	9.022	(0.929)	37391	10.0000	9.397
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.073	(0.934)	32630	10.0000	8.792
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	1206996	10.0000	9.522

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
62 Bromobenzene	156	8.790	8.790	(0.905)	239015	10.0000	8.839
67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	868595	10.0000	9.273
65 2-Chloro Toluene	91	8.971	8.971	(0.924)	709493	10.0000	9.212
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	717080	10.0000	9.170
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	739448	10.0000	9.145
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	867374	10.0000	9.176
72 S-Butyl Benzene	105	9.474	9.474	(0.976)	1102094	10.0000	9.560
73 4-Isopropyl Toluene	119	9.616	9.616	(0.990)	903041	10.0000	9.289
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	479234	10.0000	8.852
* 75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	294798	10.0000	
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	475508	10.0000	8.627
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	790638	10.0000	9.421
§ 78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	256114	10.0000	9.839
79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	424702	10.0000	8.941
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	19133	10.0000	7.853
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	268226	10.0000	8.379
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	123233	10.0000	10.407
84 Naphthalene	128	11.799	11.799	(1.215)	462625	10.0000	8.171
85 1,2,3-Trichlorobenzene	180	11.975	11.975	(1.233)	228758	10.0000	8.947

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt5.i Injection Date: 25-FEB-2010 10:00
 Lab File ID: 02251002.d Init. Cal. Date(s): 28-JAN-2010 28-JAN-2010
 Analysis Type: WATER Init. Cal. Times: 15:06 18:05
 Lab Sample ID: CC0225 Quant Type: ISTD
 Method: /chem1/nt5.i/25FEB10.b/8260c012810L.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
1 Dichlorodifluoromethane	0.34862	0.26506	0.010	-23.96759	20.00000	Averaged	<-
2 Chloromethane	0.49369	0.45753	0.100	-7.32514	20.00000	Averaged	
3 Vinyl Chloride	0.59272	0.52045	0.100	-12.19246	20.00000	Averaged	
4 Bromomethane	0.39514	0.35046	0.100	-11.30788	20.00000	Averaged	
5 Chloroethane	0.38926	0.36912	0.010	-5.17386	20.00000	Averaged	
6 Trichlorofluoromethane	0.69848	0.65619	0.010	-6.05497	20.00000	Averaged	
12 Acrolein	0.02643	0.04590	0.010	73.63946	20.00000	Averaged	<-
9 1,1,2-Trichloro-1,2,2-Trifluoroeth	0.53170	0.52959	0.010	-0.39709	20.00000	Averaged	
14 Acetone	0.05020	0.04938	0.010	-1.62637	20.00000	Averaged	
7 1,1-Dichloroethene	0.55376	0.50430	0.100	-8.93154	20.00000	Averaged	
11 Bromoethane	0.40125	0.36807	0.010	-8.26754	20.00000	Averaged	
10 Iodomethane	0.80635	0.70961	0.010	-11.99737	20.00000	Averaged	
13 Methylene Chloride	0.54912	0.49721	0.010	-9.45201	20.00000	Averaged	
18 Acrylonitrile	0.08039	0.07540	0.010	-6.20400	20.00000	Averaged	
16 Methyl tert butyl ether	1.06393	1.01423	0.010	-4.67149	20.00000	Averaged	
8 Carbon Disulfide	1.78856	1.71197	0.010	-4.28210	20.00000	Averaged	
15 Trans-1,2-Dichloroethene	0.60410	0.55811	0.010	-7.61212	20.00000	Averaged	
19 Vinyl Acetate	0.52741	0.48657	0.010	-7.74285	20.00000	Averaged	
17 1,1-Dichloroethane	0.88464	0.87623	0.200	-0.95131	20.00000	Averaged	
29 2-Butanone	0.03186	0.03122	0.010	-2.02906	20.00000	Averaged	
21 2,2-Dichloropropane	0.77736	0.76541	0.010	-1.53731	20.00000	Averaged	
20 Cis-1,2-Dichloroethene	0.60254	0.56124	0.010	-6.85550	20.00000	Averaged	
23 Chloroform	0.86469	0.82189	0.200	-4.94905	20.00000	Averaged	
22 Bromochloromethane	0.24505	0.23847	0.010	-2.68195	20.00000	Averaged	
\$ 25 Dibromofluoromethane	0.35330	0.34842	0.010	-1.38038	20.00000	Averaged	
26 1,1,1-Trichloroethane	0.78160	0.76418	0.100	-2.22778	20.00000	Averaged	
28 1,1-Dichloropropene	0.49346	0.45160	0.010	-8.48262	20.00000	Averaged	
24 Carbon Tetrachloride	0.41883	0.43558	0.100	3.99742	20.00000	Averaged	
\$ 31 d4-1,2-Dichloroethane	0.31548	0.33646	0.010	6.65197	20.00000	Averaged	
33 1,2-Dichloroethane	0.32030	0.30951	0.100	-3.37081	20.00000	Averaged	
30 Benzene	1.48834	1.45725	0.500	-2.08901	20.00000	Averaged	
34 Trichloroethene	0.41546	0.38981	0.200	-6.17444	20.00000	Averaged	
38 1,2-Dichloropropane	0.32577	0.31682	0.100	-2.74772	20.00000	Averaged	
39 Bromodichloromethane	0.38049	0.35838	0.200	-5.81003	20.00000	Averaged	
37 Dibromomethane	0.14412	0.13778	0.010	-4.40269	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt5.i Injection Date: 25-FEB-2010 10:00
 Lab File ID: 02251002.d Init. Cal. Date(s): 28-JAN-2010 28-JAN-2010
 Analysis Type: WATER Init. Cal. Times: 15:06 18:05
 Lab Sample ID: CC0225 Quant Type: ISTD
 Method: /chem1/nt5.i/25FEB10.b/8260c012810L.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
40 2-Chloroethyl Vinyl Ether	0.11745	0.08443	0.010	-28.11599	20.00000	Averaged	<-
45 4-Methyl-2-Pentanone	0.05840	0.06005	0.010	2.82764	20.00000	Averaged	
41 Cis 1,3-dichloropropene	0.52037	0.49664	0.200	-4.56061	20.00000	Averaged	
42 d8-Toluene	1.08777	1.08432	0.010	-0.31711	20.00000	Averaged	
43 Toluene	0.99333	0.96749	0.400	-2.60084	20.00000	Averaged	
46 Trans 1,3-Dichloropropene	0.42026	0.38880	0.100	-7.48469	20.00000	Averaged	
51 2-Hexanone	0.09571	0.09555	0.010	-0.16576	20.00000	Averaged	
47 1,1,2-Trichloroethane	0.22212	0.21889	0.100	-1.45655	20.00000	Averaged	
49 1,3-Dichloropropane	0.45342	0.43789	0.010	-3.42401	20.00000	Averaged	
44 Tetrachloroethene	0.49237	0.46230	0.200	-6.10792	20.00000	Averaged	
48 Chlorodibromomethane	0.30170	0.28118	0.010	-6.80072	20.00000	Averaged	
50 1,2-Dibromoethane	0.21652	0.20390	0.010	-5.83087	20.00000	Averaged	
53 Chlorobenzene	1.18308	1.12701	0.500	-4.73879	20.00000	Averaged	
54 Ethyl Benzene	2.19104	2.16253	0.100	-1.30106	20.00000	Averaged	
55 1,1,1,2-Tetrachloroethane	0.39349	0.36835	0.010	-6.38991	20.00000	Averaged	
56 m,p-xylene	0.83101	0.80545	0.100	-3.07595	20.00000	Averaged	
57 o-Xylene	0.80372	0.75979	0.300	-5.46524	20.00000	Averaged	
58 Styrene	1.31153	1.20767	0.300	-7.91914	20.00000	Averaged	
60 Isopropyl Benzene	3.82921	3.59834	0.010	-6.02908	20.00000	Averaged	
59 Bromoform	0.28516	0.26470	0.100	-7.17658	20.00000	Averaged	
64 1,1,2,2-Tetrachloroethane	0.47787	0.42097	0.300	-11.90687	20.00000	Averaged	
61 4-Bromofluorobenzene	0.44999	0.42967	0.010	-4.51530	20.00000	Averaged	
66 1,2,3-Trichloropropane	0.13497	0.12684	0.010	-6.02864	20.00000	Averaged	
68 Trans-1,4-Dichloro 2-Butene	0.12589	0.11069	0.010	-12.07575	20.00000	Averaged	
63 N-Propyl Benzene	4.29978	4.09432	0.010	-4.77852	20.00000	Averaged	
62 Bromobenzene	0.91732	0.81078	0.010	-11.61500	20.00000	Averaged	
67 1,3,5-Trimethyl Benzene	3.17754	2.94641	0.010	-7.27407	20.00000	Averaged	
65 2-Chloro Toluene	2.61258	2.40671	0.010	-7.88014	20.00000	Averaged	
69 4-Chloro Toluene	2.65260	2.43245	0.010	-8.29970	20.00000	Averaged	
70 T-Butyl Benzene	2.74289	2.50832	0.010	-8.55191	20.00000	Averaged	
71 1,2,4-Trimethylbenzene	3.20648	2.94227	0.010	-8.24002	20.00000	Averaged	
72 S-Butyl Benzene	3.91066	3.73847	0.010	-4.40295	20.00000	Averaged	
73 4-Isopropyl Toluene	3.29772	3.06325	0.010	-7.10988	20.00000	Averaged	
74 1,3-Dichlorobenzene	1.83648	1.62564	0.600	-11.48088	20.00000	Averaged	
76 1,4-Dichlorobenzene	1.86969	1.61300	0.400	-13.72946	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt5.i Injection Date: 25-FEB-2010 10:00
 Lab File ID: 02251002.d Init. Cal. Date(s): 28-JAN-2010 28-JAN-2010
 Analysis Type: WATER Init. Cal. Times: 15:06 18:05
 Lab Sample ID: CC0225 Quant Type: ISTD
 Method: /chem1/nt5.i/25FEB10.b/8260c012810L.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
77 N-Butyl Benzene	2.84678	2.68197	0.010	-5.78953	20.00000		Averaged
78 d4-1,2-Dichlorobenzene	0.88297	0.86878	0.010	-1.60689	20.00000		Averaged
79 1,2-Dichlorobenzene	1.61133	1.44065	0.400	-10.59217	20.00000		Averaged
81 1,2-Dibromo 3-Chloropropane	0.08265	0.06490	0.010	-21.46997	20.00000		Averaged
83 1,2,4-Trichlorobenzene	1.08582	0.90986	0.010	-16.20527	20.00000		Averaged
82 Hexachloro 1,3-Butadiene	0.40169	0.41803	0.010	4.06614	20.00000		Averaged
84 Naphthalene	1.92053	1.56929	0.010	-18.28850	20.00000		Averaged
85 1,2,3-Trichlorobenzene	0.86729	0.77598	0.010	-10.52805	20.00000		Averaged

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 02251002.d
 Lab Smp Id: CC0225
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
 Misc Info: 10-

Calibration Date: 25-FEB-2010
 Calibration Time: 10:00
 Client Smp ID: CC0225
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	410112	-13.03
35 1,4-Difluorobenze	723083	361542	1446166	628981	-13.01
52 d5-Chlorobenzene	624979	312490	1249958	556528	-10.95
75 d4-1,4-Dichlorobe	328841	164420	657682	294798	-10.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.74	0.01
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.01
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.08
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt5.i/25FEB10.b/02251002.d

Date: 25-FEB-2010 10:00

Client ID: CC0225

Sample Info: CC0225,10,10,0,

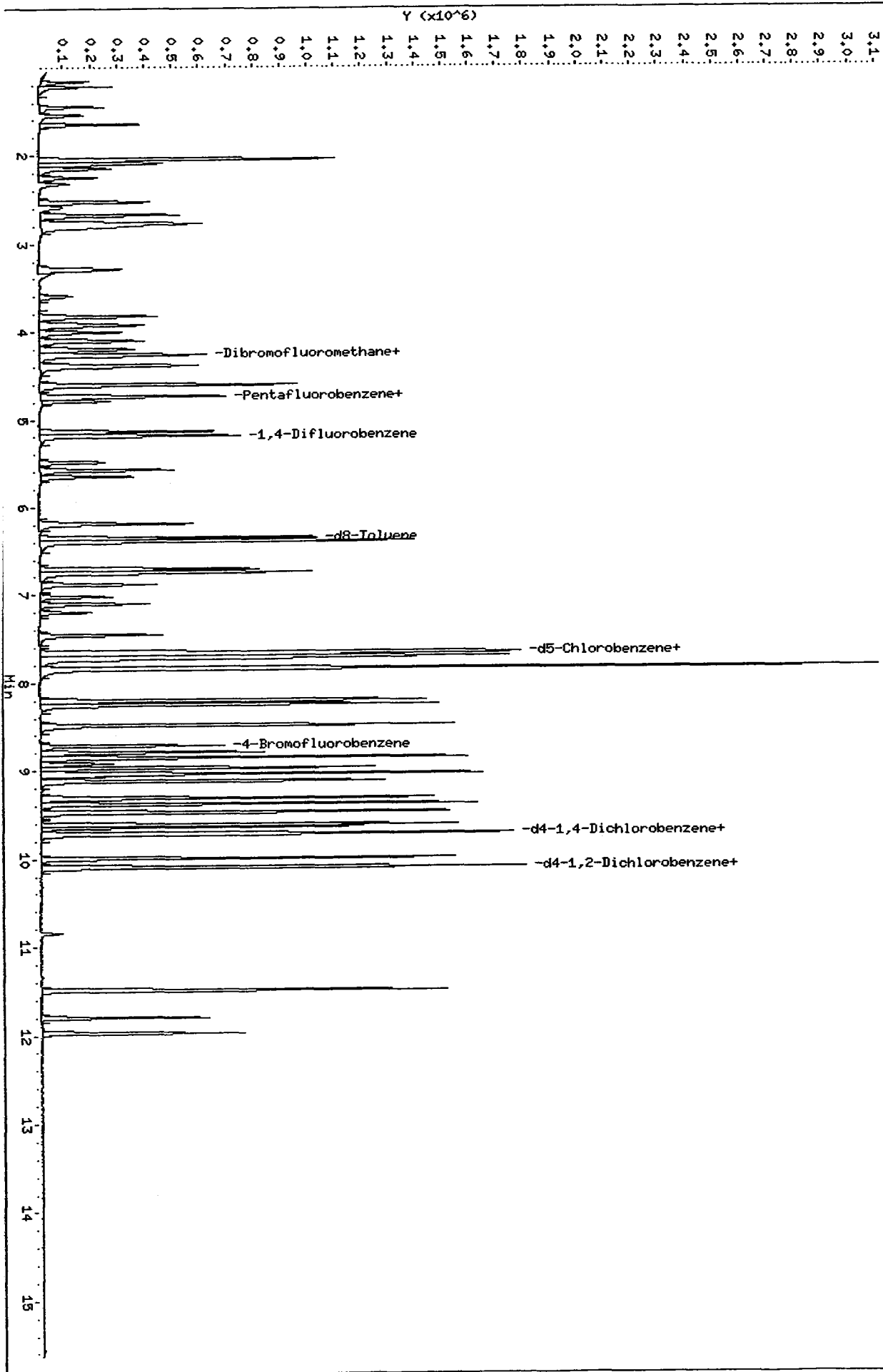
Column phase: RTXVHS

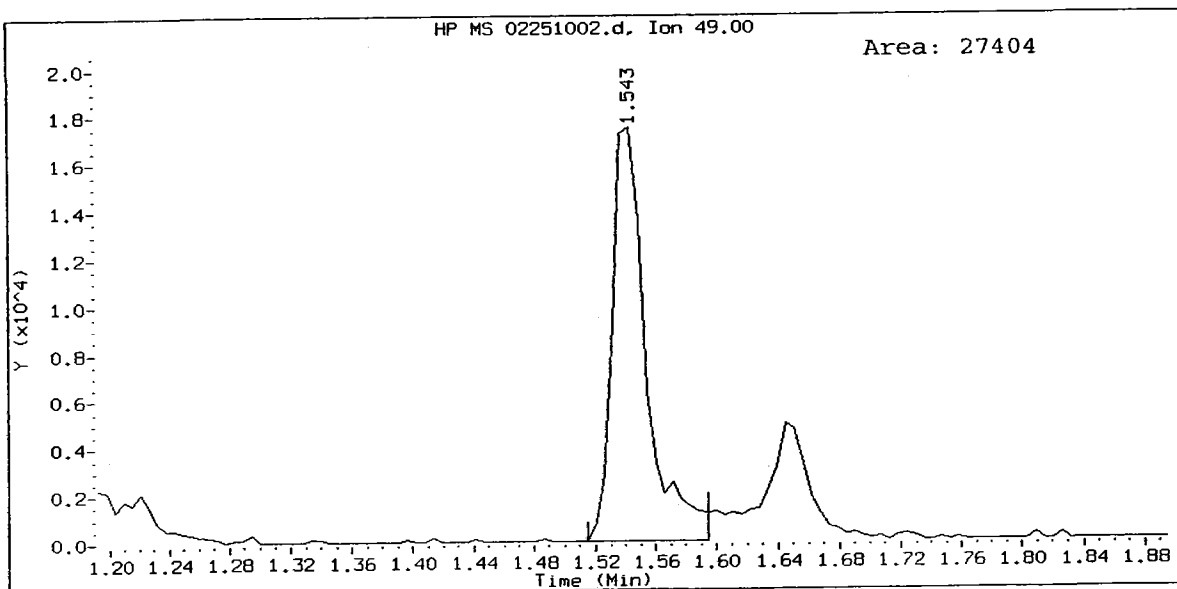
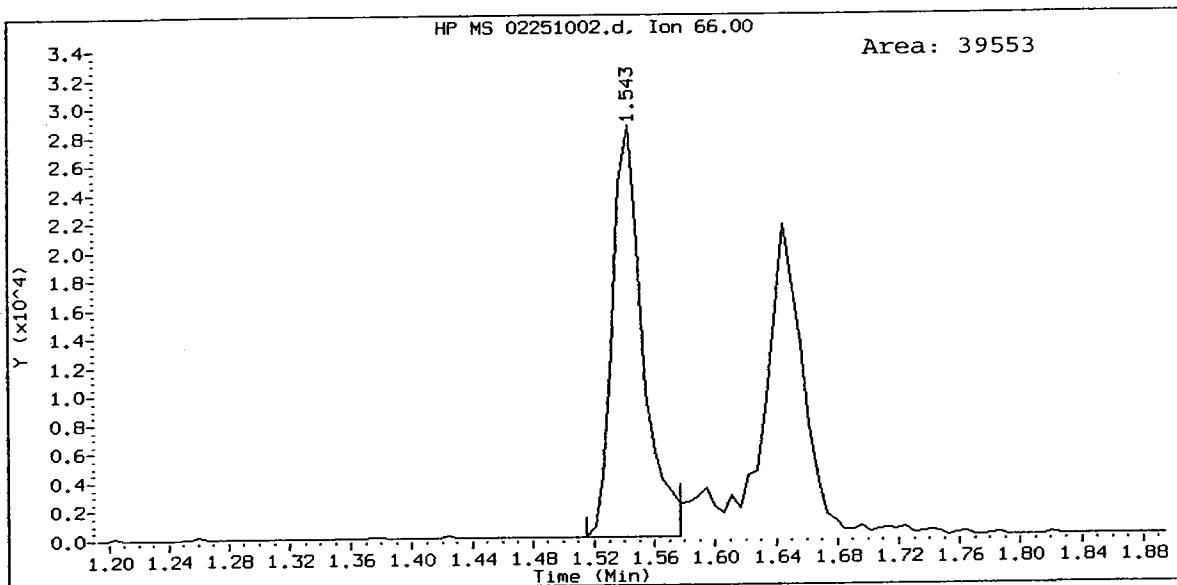
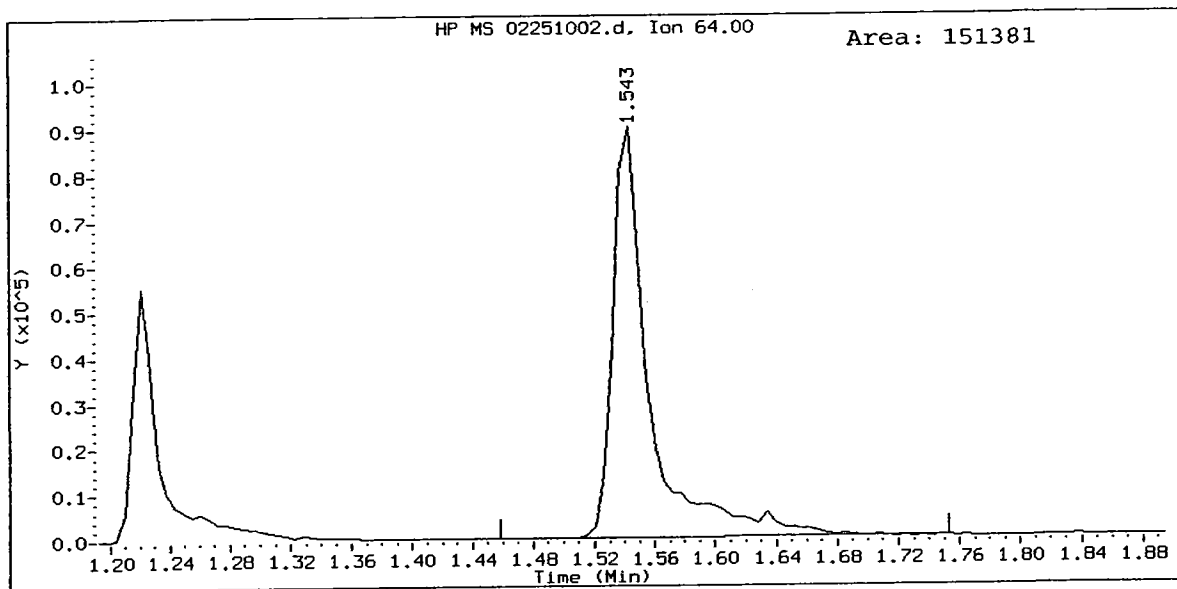
Instrument: nt5.i

Operator: PC

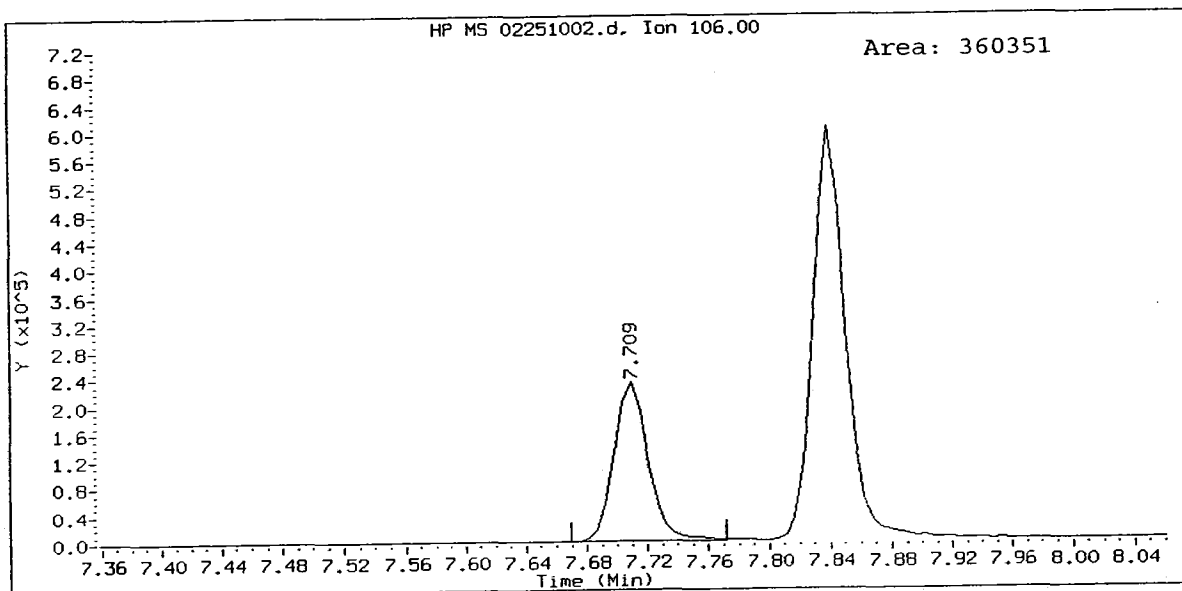
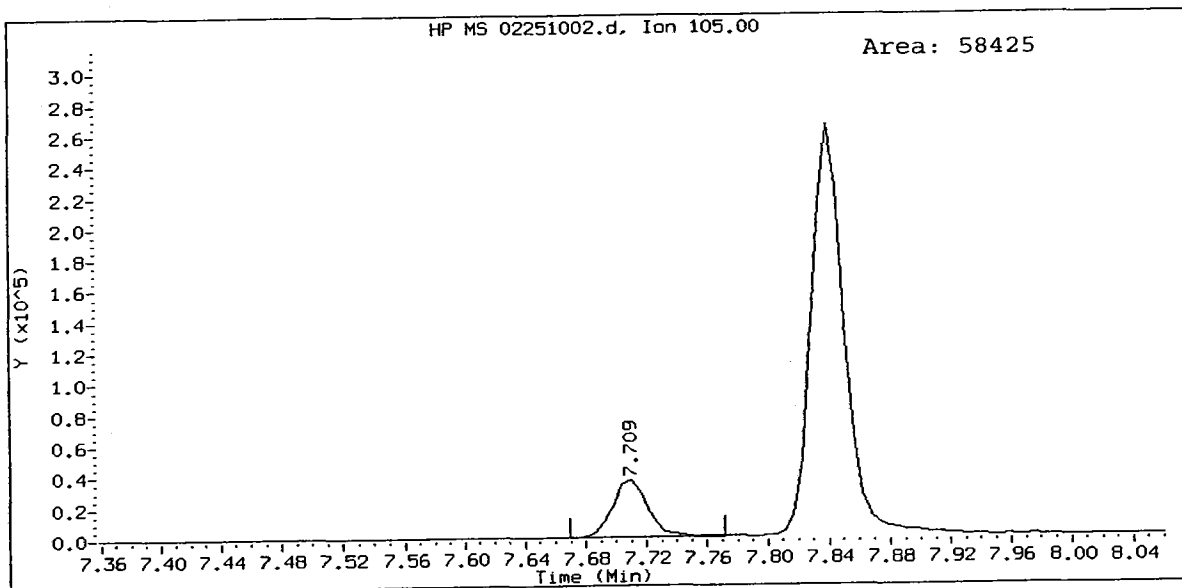
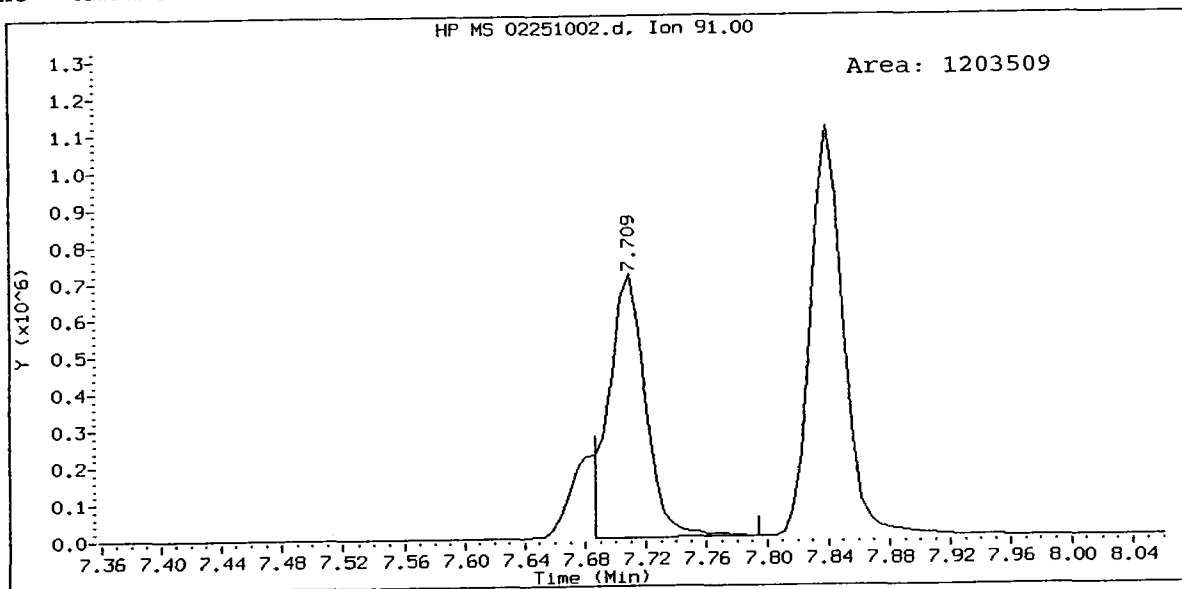
Column diameter: 0.18

/chem1/nt5.i/25FEB10.b/02251002.d

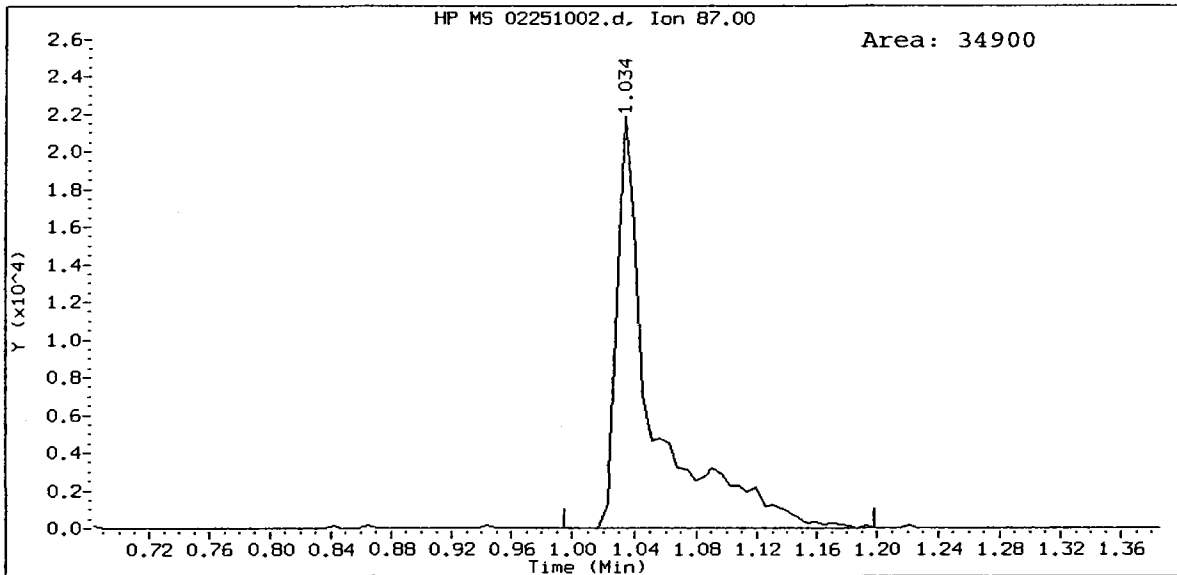
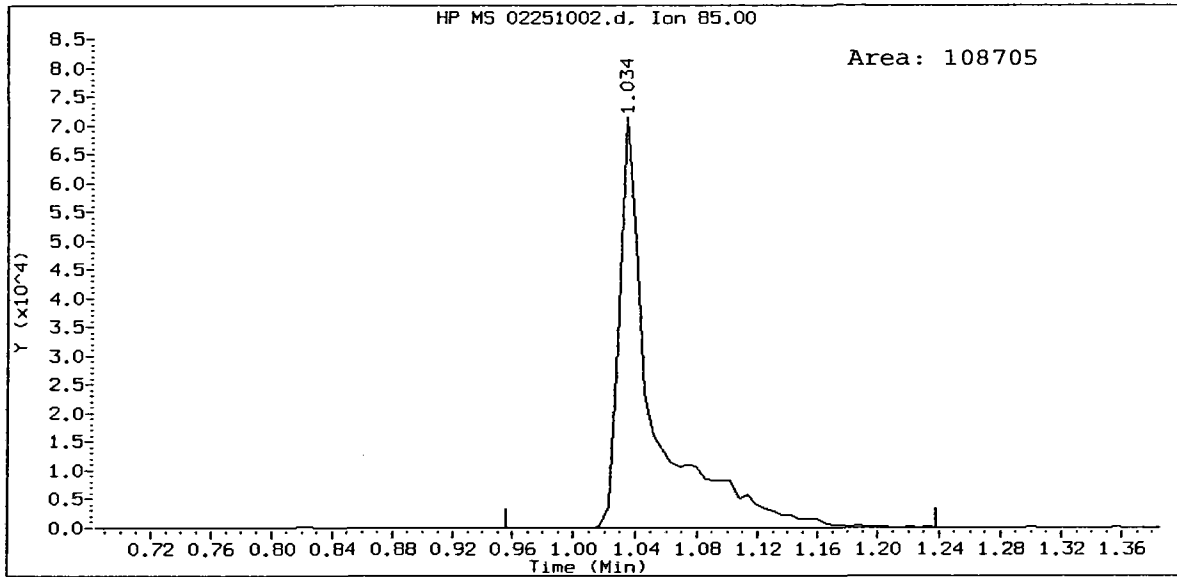




CC0225, /chem1/nt5.i/25FEB10.b/02251002.d
Ethyl Benzene Amount: 9.87



CC0225, /chem1/nt5.i/25FEB10.b/02251002.d
Dichlorodifluoromethane Amount: 7.60



7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Cont. Calib. Date: 03/02/10

Init. Calib. Date: 02/22/10

Cont. Calib. Time: 1530

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
=====	=====	=====	=====	=====	=====	
Chloromethane	0.375	0.430	0.100	AVRG	14.7	
Vinyl Chloride	0.446	0.536	0.010	AVRG	20.2	<-
Bromomethane	10.000	10.216	0.010	LINR	2.2	
Chloroethane	0.350	0.404	0.010	AVRG	15.4	
Trichlorofluoromethane	0.627	0.769	0.010	AVRG	22.6	<-
Acrolein	0.028	0.013	0.010	AVRG	-53.6	<-
1,1,2-Trichloro-2,2-Trifluoroethane	0.418	0.484	0.010	AVRG	15.8	
Acetone	0.046	0.059	0.010	AVRG	28.3	<-
1,1-Dichloroethene	0.498	0.566	0.010	AVRG	13.6	
Bromoethane	0.304	0.337	0.010	AVRG	10.8	
Iodomethane	0.672	0.627	0.010	AVRG	-6.7	
Methylene Chloride	0.415	0.467	0.010	AVRG	12.5	
Acrylonitrile	0.058	0.060	0.010	AVRG	3.4	
Carbon Disulfide	1.630	1.748	0.010	AVRG	7.2	
Trans-1,2-Dichloroethene	0.523	0.587	0.010	AVRG	12.2	
Vinyl Acetate	0.463	0.389	0.010	AVRG	-16.0	
1,1-Dichloroethane	0.852	0.949	0.100	AVRG	11.4	
2-Butanone	0.030	0.064	0.010	AVRG	113.3	<-
2,2-Dichloropropane	0.339	0.393	0.010	AVRG	15.9	
Cis-1,2-Dichloroethene	0.583	0.605	0.010	AVRG	3.8	
Chloroform	0.907	1.005	0.010	AVRG	10.8	
Bromochloromethane	0.198	0.216	0.010	AVRG	9.1	
1,1,1-Trichloroethane	0.706	0.809	0.010	AVRG	14.6	
1,1-Dichloropropene	0.496	0.560	0.010	AVRG	12.9	
Carbon Tetrachloride	0.363	0.412	0.010	AVRG	13.5	
1,2-Dichloroethane	0.301	0.332	0.010	AVRG	10.3	
Benzene	1.402	1.513	0.010	AVRG	7.9	
Trichloroethene	0.376	0.437	0.010	AVRG	16.2	
1,2-Dichloropropane	0.304	0.325	0.010	AVRG	6.9	
Bromodichloromethane	0.384	0.418	0.010	AVRG	8.8	
Dibromomethane	0.121	0.132	0.010	AVRG	9.1	
2-Chloroethyl Vinyl Ether	0.072	0.095	0.010	AVRG	31.9	<-
4-Methyl-2-Pentanone	0.054	0.049	0.010	AVRG	-9.2	
Cis 1,3-dichloropropene	0.427	0.482	0.010	AVRG	12.9	
Toluene	0.957	1.037	0.010	AVRG	8.4	
Trans 1,3-Dichloropropene	0.314	0.358	0.010	AVRG	14.0	
2-Hexanone	0.087	0.084	0.010	AVRG	-3.4	

<- Exceeds QC limit of 20% D
* RF less than minimum RF

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Cont. Calib. Date: 03/02/10

Init. Calib. Date: 02/22/10

Cont. Calib. Time: 1530

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
1,1,2-Trichloroethane	0.186	0.198	0.010	AVRG	6.4
1,3-Dichloropropane	0.358	0.383	0.010	AVRG	7.0
Tetrachloroethene	0.435	0.461	0.010	AVRG	6.0
Chlorodibromomethane	0.240	0.264	0.010	AVRG	10.0
1,2-Dibromoethane	0.166	0.180	0.010	AVRG	8.4
Chlorobenzene	1.051	1.129	0.300	AVRG	7.4
Ethyl Benzene	1.994	2.130	0.010	AVRG	6.8
1,1,1,2-Tetrachloroethane	0.322	0.330	0.010	AVRG	2.5
m,p-xylene	0.751	0.818	0.010	AVRG	8.9
o-Xylene	0.681	0.736	0.010	AVRG	8.1
Styrene	1.072	1.176	0.010	AVRG	9.7
Bromoform	0.309	0.302	0.100	AVRG	-2.3
1,1,2,2-Tetrachloroethane	0.453	0.427	0.300	AVRG	-5.7
1,2,3-Trichloropropane	0.137	0.134	0.010	AVRG	-2.2
Trans-1,4-Dichloro 2-Butene	10.000	10.242	0.010	2ORDR	2.4
N-Propyl Benzene	6.028	5.897	0.010	AVRG	-2.2
Bromobenzene	1.011	0.950	0.010	AVRG	-6.0
Isopropyl Benzene	5.279	4.904	0.010	AVRG	-7.1
2-Chloro Toluene	3.786	3.612	0.010	AVRG	-4.6
4-Chloro Toluene	3.279	3.199	0.010	AVRG	-2.4
T-Butyl Benzene	3.296	3.114	0.010	AVRG	-5.5
1,3,5-Trimethyl Benzene	3.900	3.840	0.010	AVRG	-1.5
1,2,4-Trimethylbenzene	3.690	3.729	0.010	AVRG	1.0
S-Butyl Benzene	4.845	4.794	0.010	AVRG	-1.0
4-Isopropyl Toluene	3.694	3.809	0.010	AVRG	3.1
1,3-Dichlorobenzene	1.695	1.751	0.010	AVRG	3.3
1,4-Dichlorobenzene	1.618	1.674	0.010	AVRG	3.5
N-Butyl Benzene	3.157	3.452	0.010	AVRG	9.3
1,2-Dichlorobenzene	1.275	1.285	0.010	AVRG	0.8
1,2-Dibromo 3-Chloropropane	0.040	0.040	0.010	AVRG	0.0
1,2,4-Trichlorobenzene	0.622	0.567	0.010	AVRG	-8.8
Hexachloro 1,3-Butadiene	0.370	0.353	0.010	AVRG	-4.6
Naphthalene	0.845	0.764	0.010	AVRG	-9.6
1,2,3-Trichlorobenzene	0.421	0.400	0.010	AVRG	-5.0
Methyl tert butyl ether	0.732	0.759	0.010	AVRG	3.7
Dichlorodifluoromethane	0.251	0.425	0.010	AVRG	69.3
Allyl Chloride			0.010	AVRG	

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| *
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<- Exceeds QC limit of 20% D
* RF less than minimum RF

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: LORA LAKE APARTMENTS

Instrument ID: NT10

Cont. Calib. Date: 03/02/10

Init. Calib. Date: 02/22/10

Cont. Calib. Time: 1530

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Methyl Methacrylate			0.010	AVRG	
Cyclohexanone			0.010	AVRG	
d4-1,2-Dichloroethane	0.367	0.379	0.010	AVRG	3.3
d8-Toluene	1.219	1.265	0.010	AVRG	3.8
4-Bromofluorobenzene	0.406	0.429	0.010	AVRG	5.7
d4-1,2-Dichlorobenzene	0.778	0.764	0.010	AVRG	-1.8
Dibromofluoromethane	0.417	0.425	0.010	AVRG	1.9

*
*

<- Exceeds QC limit of 20% D

* RF less than minimum RF

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 02-MAR-2010 15:30
 Lab File ID: 1000302A.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 14:42 18:41
 Lab Sample ID: CC0302 Quant Type: ISTD
 Method: /chem1/nt10.i/02MAR10.b/82600122L.m

COMPOUND	RF10		CCAL		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	%D / %DRIFT		
1 Dichlorodifluoromethane	0.25081	0.42485	0.42485	0.010	69.39110	20.00000	Averaged	<-	
2 Chloromethane	0.37517	0.43030	0.43030	0.100	14.69365	20.00000	Averaged		
3 Vinyl Chloride	0.44606	0.53565	0.53565	0.100	20.08553	20.00000	Averaged	<-	
4 Bromomethane	10.21583	10.00000	0.39303	0.100	2.15834	20.00000	Linear		
5 Chloroethane	0.35028	0.40456	0.40456	0.010	15.49588	20.00000	Averaged		
6 Trichlorofluoromethane	0.62699	0.76892	0.76892	0.010	22.63774	20.00000	Averaged	<-	
8 Acrolein	0.02879	0.01287	0.01287	0.000	-55.28180	20.00000	Averaged	<-	
9 1,1,1-Trichloro-2,2,2-trifluoroethane	0.41839	0.48431	0.48431	0.010	15.75488	20.00000	Averaged		
10 Acetone	0.04608	0.05913	0.05913	0.001	28.32639	20.00000	Averaged	<-	
11 1,1-Dichloroethene	0.49765	0.56598	0.56598	0.100	13.73199	20.00000	Averaged		
12 Bromoethane	0.30371	0.33711	0.33711	0.100	10.99660	20.00000	Averaged		
13 Iodomethane	0.67258	0.62686	0.62686	0.010	-6.79819	20.00000	Averaged		
14 Methylene Chloride	0.41454	0.46741	0.46741	0.010	12.75236	20.00000	Averaged		
15 Acrylonitrile	0.05868	0.05991	0.05991	0.001	2.09350	20.00000	Averaged		
16 Methyl tert butyl ether	0.73174	0.75887	0.75887	0.100	3.70879	20.00000	Averaged		
17 Carbon Disulfide	1.62950	1.74843	1.74843	0.010	7.29863	20.00000	Averaged		
18 Trans-1,2-Dichloroethene	0.52291	0.58735	0.58735	0.010	12.32396	20.00000	Averaged		
20 Vinyl Acetate	0.46273	0.38940	0.38940	0.010	-15.84694	20.00000	Averaged		
21 1,1-Dichloroethane	0.85192	0.94880	0.94880	0.200	11.37280	20.00000	Averaged		
22 2-Butanone	0.02964	0.06374	0.06374	0.001	115	20.00000	Averaged	<-	
23 2,2-Dichloropropane	0.33898	0.39345	0.39345	0.010	16.06916	20.00000	Averaged		
24 Cis-1,2-Dichloroethene	0.58340	0.60522	0.60522	0.010	3.74010	20.00000	Averaged		
26 Chloroform	0.90761	1.00549	1.00549	0.200	10.78416	20.00000	Averaged		
27 Bromochloromethane	0.19816	0.21565	0.21565	0.050	8.82715	20.00000	Averaged		
28 Dibromofluoromethane	0.41705	0.42470	0.42470	0.100	1.83298	20.00000	Averaged		
29 1,1,1-Trichloroethane	0.70597	0.80929	0.80929	0.100	14.63473	20.00000	Averaged		
30 1,1-Dichloropropene	0.49647	0.56000	0.56000	0.010	12.79677	20.00000	Averaged		
31 Carbon Tetrachloride	0.36321	0.41190	0.41190	0.100	13.40698	20.00000	Averaged		
32 d4-1,2-Dichloroethane	0.36676	0.37886	0.37886	0.010	3.30088	20.00000	Averaged		
33 1,2-Dichloroethane	0.30151	0.33177	0.33177	0.100	10.03788	20.00000	Averaged		
34 Benzene	1.40257	1.51315	1.51315	0.500	7.88363	20.00000	Averaged		
36 Trichloroethene	0.37582	0.43685	0.43685	0.100	16.24114	20.00000	Averaged		
37 1,2-Dichloropropane	0.30363	0.32543	0.32543	0.100	7.17878	20.00000	Averaged		
38 Bromodichloromethane	0.38400	0.41839	0.41839	0.100	8.95791	20.00000	Averaged		
39 Dibromomethane	0.12134	0.13189	0.13189	0.010	8.69250	20.00000	Averaged		

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 02-MAR-2010 15:30
 Lab File ID: 1000302A.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 14:42 18:41
 Lab Sample ID: CC0302 Quant Type: ISTD
 Method: /chem1/nt10.i/02MAR10.b/82600122L.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 2-Chloroethyl Vinyl Ether	0.07208	0.09468	0.09468	0.000	31.35270	20.00000	Averaged
41 4-Methyl-2-Pentanone	0.05356	0.04920	0.04920	0.000	-8.14909	20.00000	Averaged
42 Cis 1,3-dichloropropene	0.42736	0.48208	0.48208	0.200	12.80340	20.00000	Averaged
43 d8-Toluene	1.21850	1.26510	1.26510	0.010	3.82480	20.00000	Averaged
44 Toluene	0.95666	1.03741	1.03741	0.400	8.44115	20.00000	Averaged
45 Trans 1,3-Dichloropropene	0.31424	0.35848	0.35848	0.010	14.07733	20.00000	Averaged
46 2-Hexanone	0.08726	0.08429	0.08429	0.010	-3.40515	20.00000	Averaged
47 1,1,2-Trichloroethane	0.18629	0.19816	0.19816	0.100	6.37381	20.00000	Averaged
48 1,3-Dichloropropane	0.35839	0.38326	0.38326	0.100	6.93715	20.00000	Averaged
49 Tetrachloroethene	0.43471	0.46118	0.46118	0.200	6.08776	20.00000	Averaged
50 Chlorodibromomethane	0.24026	0.26404	0.26404	0.100	9.89720	20.00000	Averaged
51 1,2-Dibromoethane	0.16545	0.18047	0.18047	0.010	9.07548	20.00000	Averaged
53 Chlorobenzene	1.05101	1.12871	1.12871	0.500	7.39235	20.00000	Averaged
54 Ethyl Benzene	1.99424	2.12956	2.12956	0.100	6.78551	20.00000	Averaged
55 1,1,1,2-Tetrachloroethane	0.32157	0.32983	0.32983	0.010	2.56749	20.00000	Averaged
56 m,p-xylene	0.75156	0.81753	0.81753	0.300	8.77723	20.00000	Averaged
58 o-Xylene	0.68117	0.73558	0.73558	0.300	7.98869	20.00000	Averaged
59 Styrene	1.07185	1.17630	1.17630	0.300	9.74499	20.00000	Averaged
60 Isopropyl Benzene	5.27878	4.90373	4.90373	0.010	-7.10470	20.00000	Averaged
61 Bromoform	0.30913	0.30230	0.30230	0.010	-2.20969	20.00000	Averaged
62 1,1,2,2-Tetrachloroethane	0.45327	0.42674	0.42674	0.100	-5.85337	20.00000	Averaged
63 4-Bromofluorobenzene	0.40569	0.42950	0.42950	0.200	5.86882	20.00000	Averaged
64 1,2,3-Trichloropropane	0.13696	0.13399	0.13399	0.010	-2.16780	20.00000	Averaged
65 Trans-1,4-Dichloro 2-Butene	10.24224	10.00000	0.08870	0.001	2.42242	20.00000	Quadratic
66 N-Propyl Benzene	6.02760	5.89717	5.89717	0.010	-2.16383	20.00000	Averaged
67 Bromobenzene	1.01073	0.95020	0.95020	0.010	-5.98873	20.00000	Averaged
68 1,3,5-Trimethyl Benzene	3.89972	3.84040	3.84040	0.010	-1.52099	20.00000	Averaged
69 2-Chloro Toluene	3.78603	3.61196	3.61196	0.010	-4.59772	20.00000	Averaged
70 4-Chloro Toluene	3.27945	3.19915	3.19915	0.010	-2.44854	20.00000	Averaged
71 T-Butyl Benzene	3.29586	3.11362	3.11362	0.010	-5.52937	20.00000	Averaged
72 1,2,4-Trimethylbenzene	3.69038	3.72884	3.72884	0.010	1.04212	20.00000	Averaged
73 S-Butyl Benzene	4.84538	4.79446	4.79446	0.010	-1.05096	20.00000	Averaged
74 4-Isopropyl Toluene	3.69454	3.80911	3.80911	0.010	3.10101	20.00000	Averaged
75 1,3-Dichlorobenzene	1.69538	1.75144	1.75144	0.600	3.30649	20.00000	Averaged
77 1,4-Dichlorobenzene	1.61768	1.67390	1.67390	0.500	3.47511	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 02-MAR-2010 15:30
Lab File ID: 1000302A.d Init. Cal. Date(s): 22-FEB-2010 22-FEB-2010
Analysis Type: WATER Init. Cal. Times: 14:42 18:41
Lab Sample ID: CC0302 Quant Type: ISTD
Method: /chem1/nt10.i/02MAR10.b/82600122L.m

COMPOUND	RF10		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	
78 N-Butyl Benzene	3.15749	3.45221	3.45221	0.010	9.33410	20.00000	Averaged
\$ 79 d4-1,2-Dichlorobenzene	0.77768	0.76419	0.76419	0.010	-1.73489	20.00000	Averaged
80 1,2-Dichlorobenzene	1.27538	1.28477	1.28477	0.400	0.73651	20.00000	Averaged
81 1,2-Dibromo 3-Chloropropane	0.04044	0.04058	0.04058	0.010	0.34056	20.00000	Averaged
82 1,2,4-Trichlorobenzene	0.62170	0.56723	0.56723	0.010	-8.76244	20.00000	Averaged
83 Hexachloro 1,3-Butadiene	0.37002	0.35266	0.35266	0.010	-4.69129	20.00000	Averaged
84 Naphthalene	0.84484	0.76452	0.76452	0.010	-9.50712	20.00000	Averaged
85 1,2,3-Trichlorobenzene	0.42147	0.39968	0.39968	0.010	-5.16965	20.00000	Averaged

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/02MAR10.b/1000302A.d
 Lab Smp Id: CC0302 Client Smp ID: CC0302
 Inj Date : 02-MAR-2010 15:30
 Operator : ar Inst ID: nt10.i
 Smp Info : CC0302,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/02MAR10.b/82600122L.m
 Meth Date : 03-Mar-2010 11:45 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
1 Dichlorodifluoromethane	85		1.391	1.391	(0.264)	194150	10.0000	16.939
2 Chloromethane	50		1.550	1.550	(0.294)	196640	10.0000	11.469(M)
3 Vinyl Chloride	62		1.619	1.619	(0.307)	244787	10.0000	12.009(QM)
4 Bromomethane	94		1.898	1.898	(0.360)	179609	10.0000	10.216(Q)
5 Chloroethane	64		2.011	2.011	(0.382)	184881	10.0000	11.550(Q)
6 Trichlorofluoromethane	101		2.131	2.131	(0.404)	351389	10.0000	12.264
8 Acrolein	56		3.007	3.007	(0.570)	5883	10.0000	4.472
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101		2.672	2.672	(0.507)	221323	10.0000	11.575(Q)
10 Acetone	43		3.343	3.343	(0.634)	27021	10.0000	12.833
11 1,1-Dichloroethene	96		2.615	2.615	(0.496)	258648	10.0000	11.373(Q)
12 Bromoethane	108		2.888	2.888	(0.548)	154054	10.0000	11.100
13 Iodomethane	142		2.751	2.751	(0.522)	286468	10.0000	9.320
14 Methylene Chloride	84		3.258	3.258	(0.618)	213600	10.0000	11.275(Q)
15 Acrylonitrile	53		4.094	4.094	(0.777)	27378	10.0000	10.209
16 Methyl tert butyl ether	73		3.559	3.559	(0.675)	693593	20.0000	20.742(QM)
17 Carbon Disulfide	76		2.620	2.620	(0.497)	799013	10.0000	10.730

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
18 Trans-1,2-Dichloroethene	96	3.423	3.423	(0.649)	268414	10.0000	11.232 (Q)
20 Vinyl Acetate	43	4.294	4.294	(0.814)	177951	10.0000	8.415
21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	433592	10.0000	11.137
22 2-Butanone	72	4.994	4.994	(0.947)	29130	10.0000	21.509
23 2,2-Dichloropropane	77	4.589	4.589	(0.870)	179801	10.0000	11.607 (Q)
24 Cis-1,2-Dichloroethene	96	4.504	4.504	(0.854)	276576	10.0000	10.374 (Q)
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	456988	10.0000	
26 Chloroform	83	4.743	4.743	(0.900)	459496	10.0000	11.078
27 Bromochloromethane	128	4.669	4.669	(0.886)	197102	20.0000	21.765 (Q)
\$ 28 Dibromofluoromethane	111	4.885	4.885	(0.927)	194081	10.0000	10.183
29 1,1,1-Trichloroethane	97	4.891	4.891	(0.928)	369835	10.0000	11.463
30 1,1-Dichloropropene	75	4.988	4.988	(0.881)	420987	10.0000	11.280 (Q)
31 Carbon Tetrachloride	117	4.828	4.828	(0.853)	309654	10.0000	11.341 (Q)
\$ 32 d4-1,2-Dichloroethane	65	5.295	5.295	(1.004)	173136	10.0000	10.330
33 1,2-Dichloroethane	62	5.346	5.346	(0.945)	249414	10.0000	11.004 (Q)
34 Benzene	78	5.181	5.181	(0.916)	1137529	10.0000	10.788
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	751763	10.0000	
36 Trichloroethene	95	5.620	5.620	(0.993)	328411	10.0000	11.624 (Q)
37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	244647	10.0000	10.718 (Q)
38 Bromodichloromethane	83	6.058	6.058	(1.070)	314533	10.0000	10.896
39 Dibromomethane	93	5.933	5.933	(1.048)	99148	10.0000	10.869 (Q)
40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	71175	10.0000	13.135 (Q)
41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	36983	10.0000	9.185 (Q)
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	362410	10.0000	11.280 (Q)
\$ 43 d8-Toluene	98	6.633	6.633	(1.172)	951057	10.0000	10.382
44 Toluene	92	6.667	6.667	(1.178)	779889	10.0000	10.844
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	269491	10.0000	11.408 (Q)
46 2-Hexanone	43	7.526	7.526	(0.975)	60655	10.0000	9.659
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	148969	10.0000	10.637 (Q)
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	275806	10.0000	10.694 (Q)
49 Tetrachloroethene	166	6.928	6.928	(0.898)	331879	10.0000	10.609 (Q)
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	190013	10.0000	10.990 (Q)
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	135670	10.0000	10.908
* 52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	719637	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	812259	10.0000	10.739 (Q)
54 Ethyl Benzene	91	7.748	7.748	(1.004)	1532511	10.0000	10.679 (Q)
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	237356	10.0000	10.257 (Q)
56 m,p-xylene	106	7.850	7.850	(1.017)	1176646	20.0000	21.755 (Q)
58 o-Xylene	106	8.158	8.158	(1.057)	529353	10.0000	10.799 (Q)
59 Styrene	104	8.198	8.198	(1.062)	846511	10.0000	10.974 (Q)
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1418724	10.0000	9.290
61 Bromoform	173	8.215	8.215	(0.874)	87461	10.0000	9.779 (Q)
62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	123461	10.0000	9.415
\$ 63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	309082	10.0000	10.587
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	38766	10.0000	9.783 (Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	25663	10.0000	10.242 (Q)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	1706141	10.0000	9.784 (Q)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
67 Bromobenzene	156	8.659	8.659	(0.921)	274906	10.0000	9.401 (Q)
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	1111086	10.0000	9.848 (Q)
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	1044993	10.0000	9.540
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	925563	10.0000	9.755 (Q)
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	900818	10.0000	9.447 (Q)
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1078809	10.0000	10.104
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1387108	10.0000	9.895 (Q)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1102032	10.0000	10.310 (Q)
75 1,3-Dichlorobenzene	146	9.347	9.347	(0.994)	506717	10.0000	10.331 (Q)
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.404	(1.000)	289315	10.0000	
77 1,4-Dichlorobenzene	146	9.415	9.415	(1.001)	484284	10.0000	10.348 (Q)
78 N-Butyl Benzene	91	9.615	9.615	(1.022)	998777	10.0000	10.933 (Q)
§ 79 d4-1,2-Dichlorobenzene	152	9.728	9.728	(1.034)	221091	10.0000	9.827
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	371703	10.0000	10.074 (Q)
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.354	(1.101)	11740	10.0000	10.034 (Q)
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	164107	10.0000	9.124 (Q)
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	102030	10.0000	9.531 (Q)
84 Naphthalene	128	11.134	11.134	(1.184)	221187	10.0000	9.049
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	115634	10.0000	9.483 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 1000302A.d
 Lab Smp Id: CC0302
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 02-MAR-2010
 Calibration Time: 15:30
 Client Smp ID: CC0302
 Level: LOW
 Sample Type: WATER

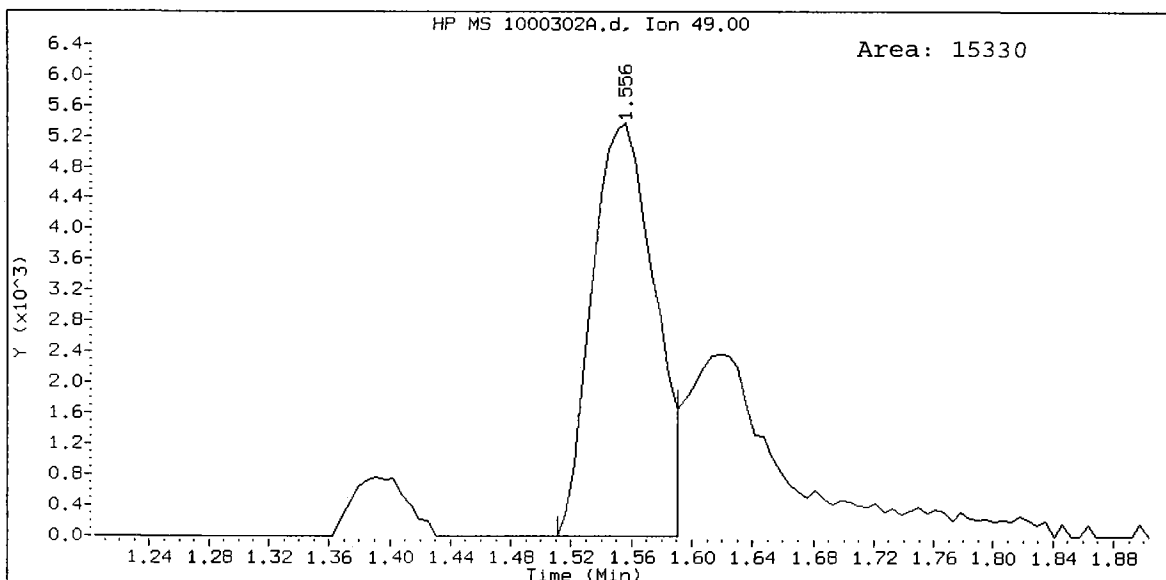
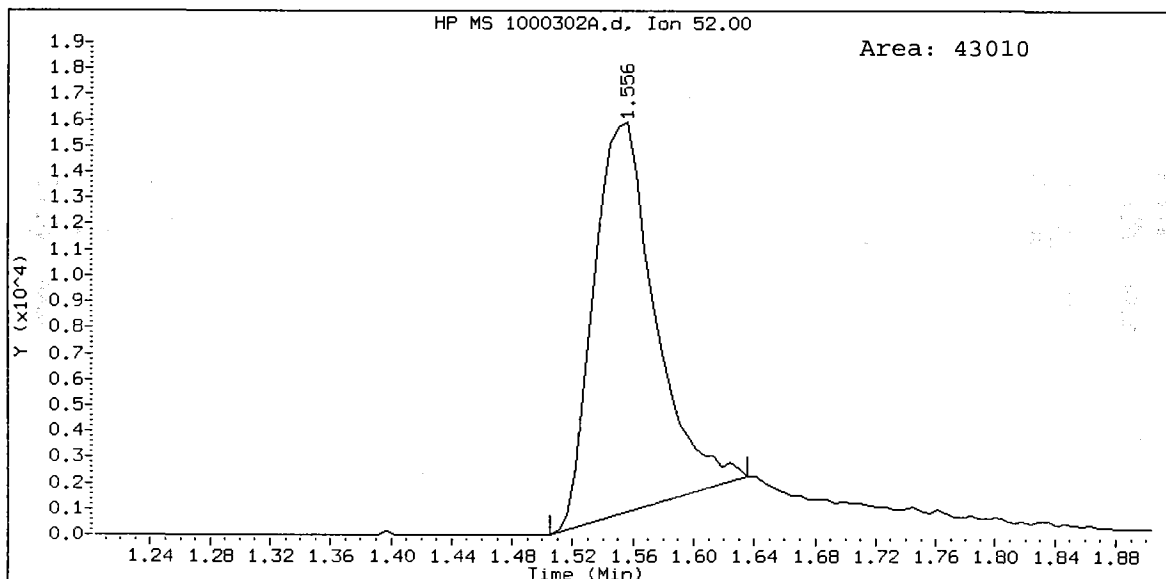
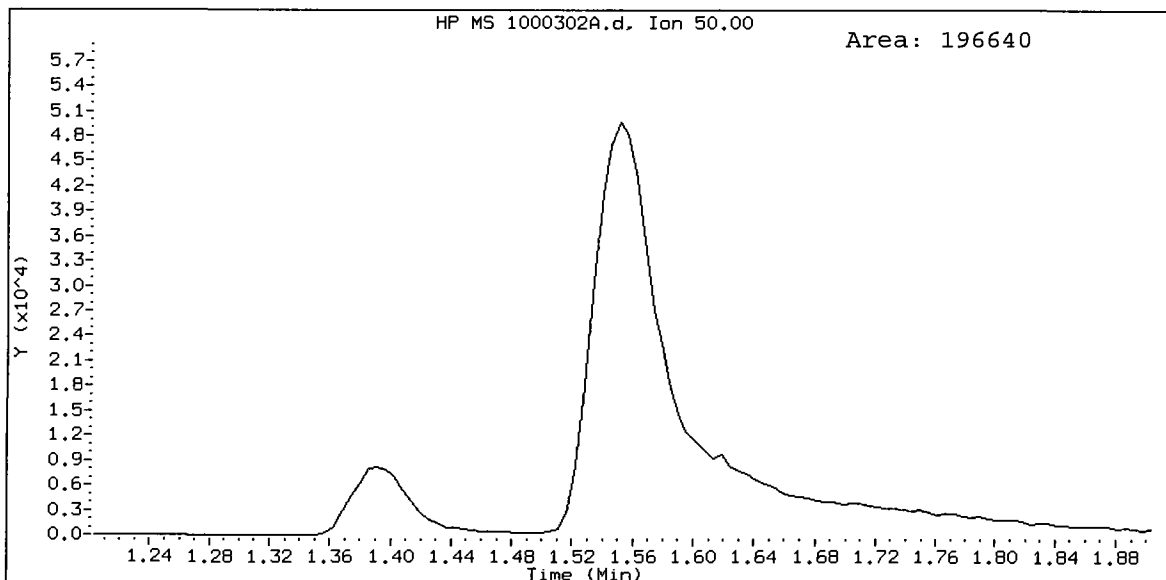
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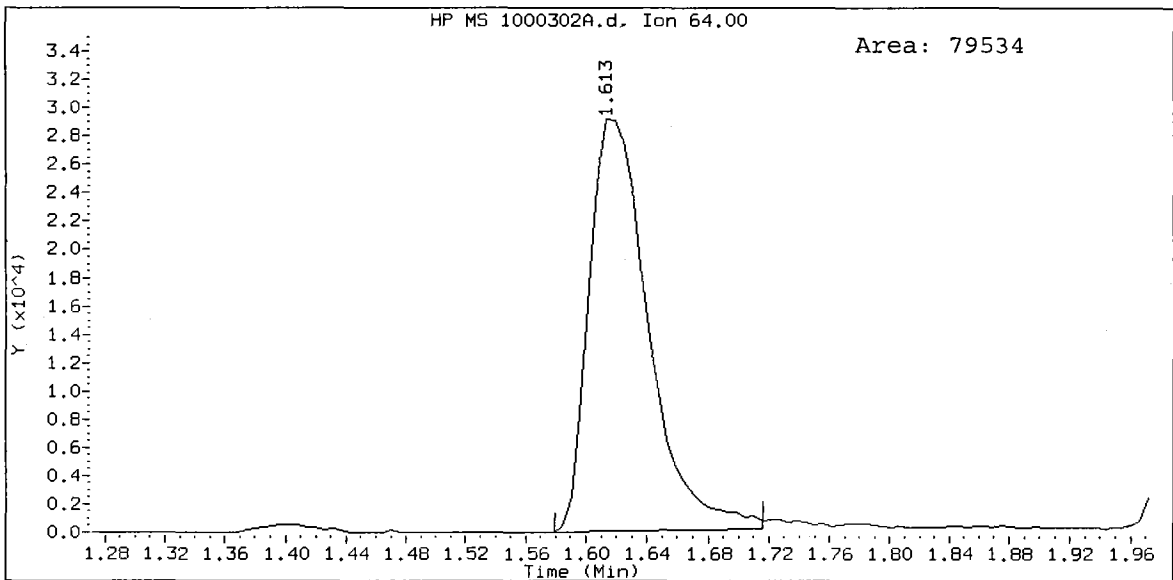
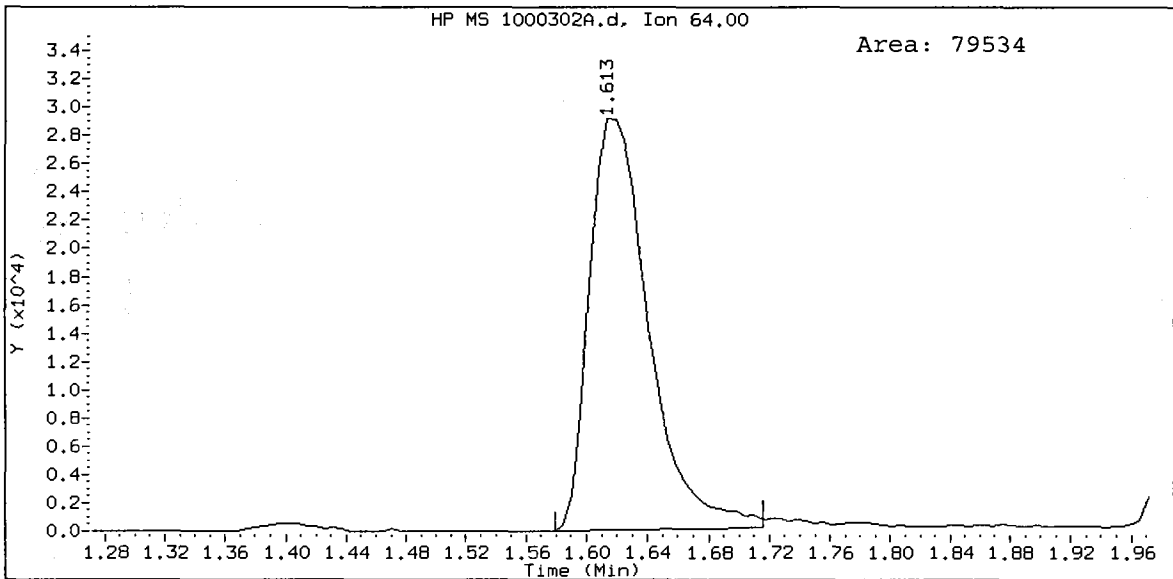
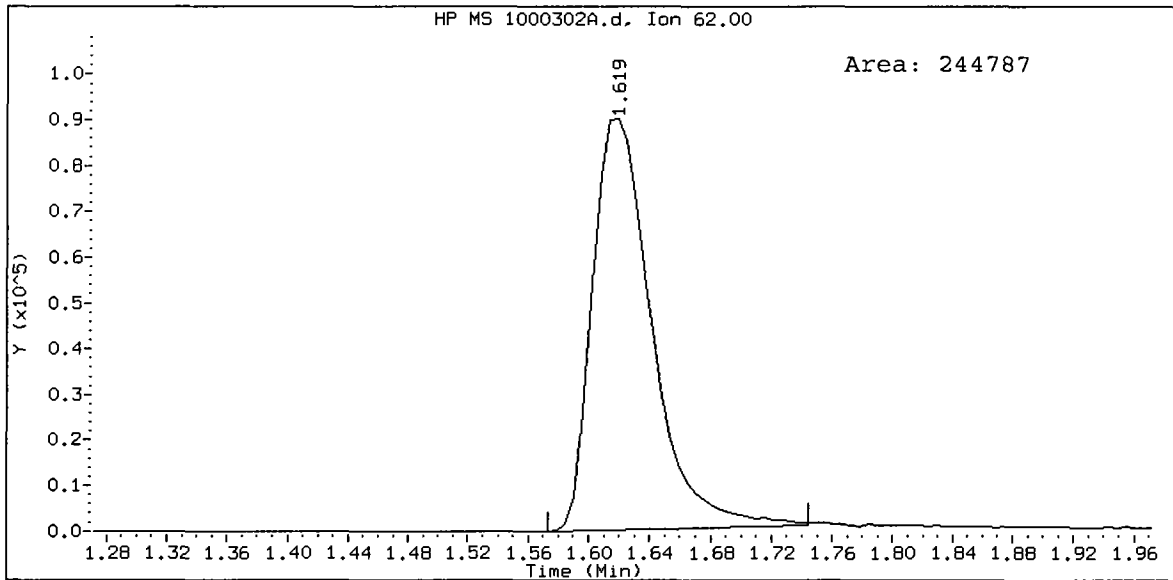
Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	456988	0.17
35 1,4-Difluorobenze	740651	370326	1481302	751763	1.50
52 d5-Chlorobenzene	686240	343120	1372480	719637	4.87
76 d4-1,4-Dichlorobe	249963	124982	499926	289315	15.74

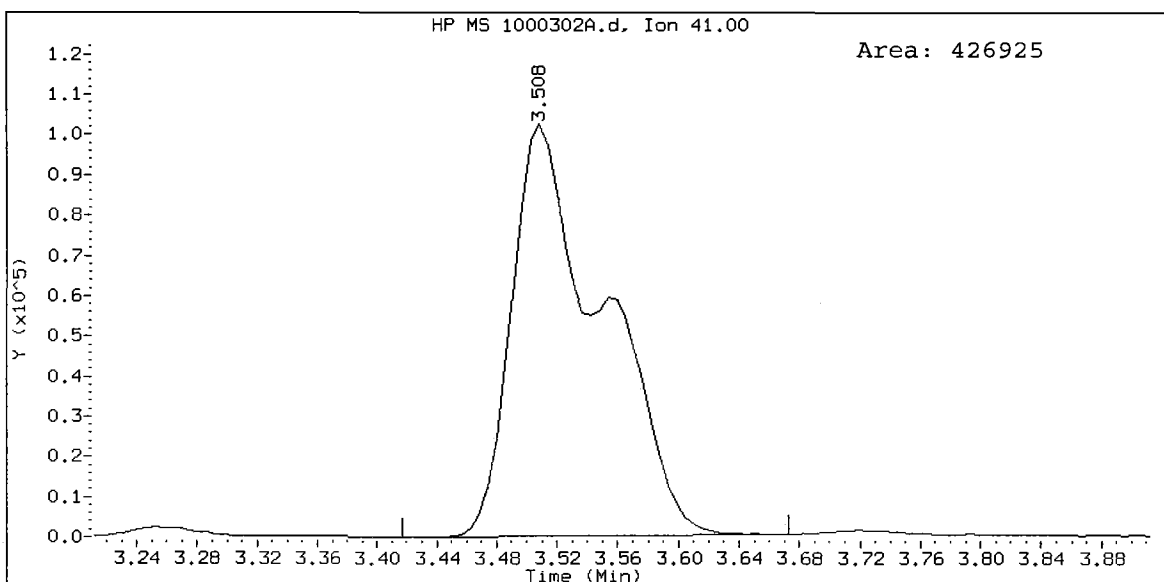
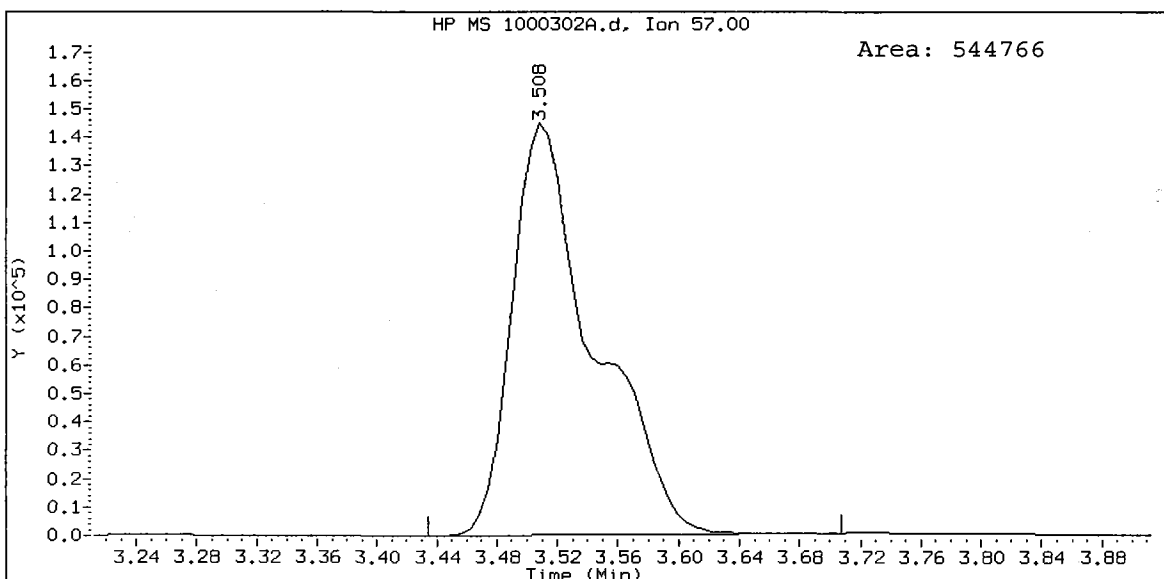
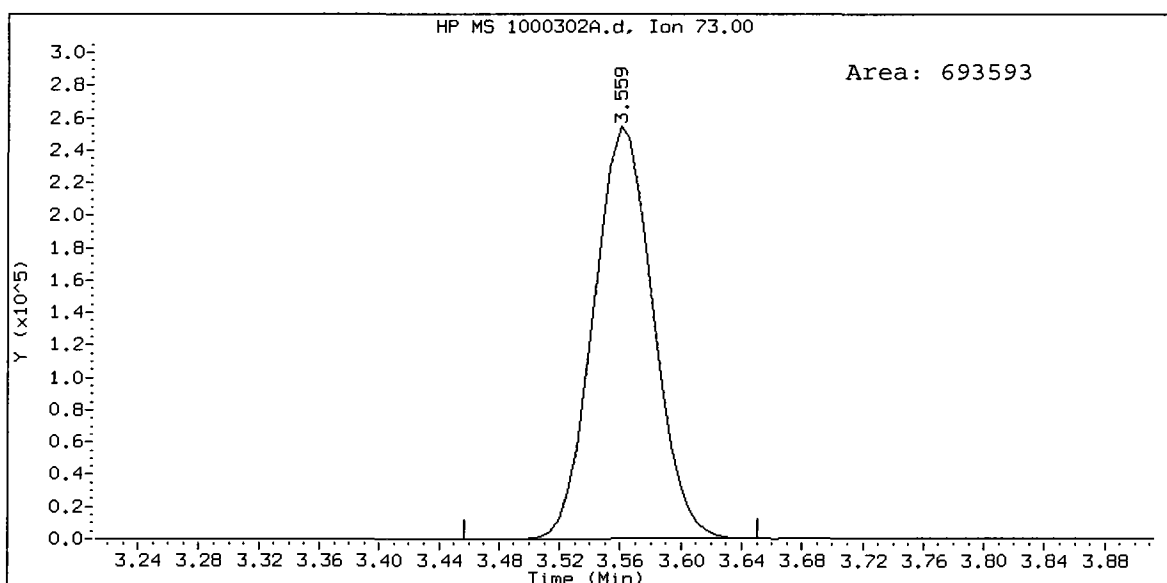
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.41	8.91	9.91	9.40	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.





CC0302, /chem1/nt10.i/02MAR10.b/1000302A.d
Methyl tert butyl ether Amount: 20.74



QL34: 00442

Volatile Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

PC
2/14/10

Data File: /chem1/nt5.i/28JAN10,b/01281004.d

Page 2

Date : 28-JAN-2010 14:17

Client ID: BFB0127

Instrument: nt5.i

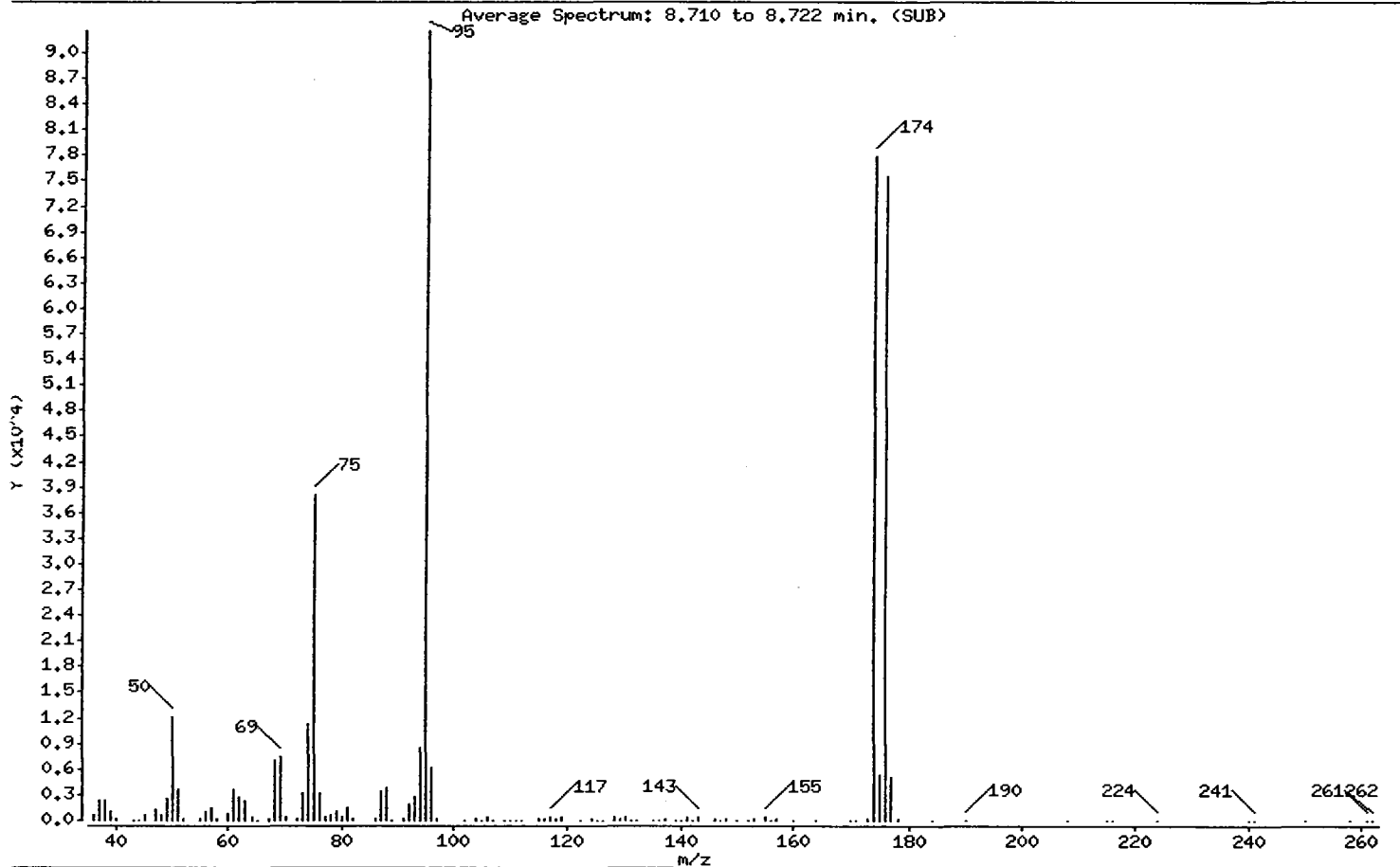
Sample Info: BFB0127,BFB0127,1,28JAN10,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	13.17
75	30.00 - 66.00% of mass 95	41.21
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.25 (0.30)
174	50.00 - 101.00% of mass 95	84.02
175	4.00 - 9.00% of mass 174	5.71 (6.79)
176	93.00 - 101.00% of mass 174	81.68 (97.21)
177	5.00 - 9.00% of mass 176	5.55 (6.79)

Date : 28-JAN-2010 14:17

Client ID: BFB0127

Instrument: nt5.i

Sample Info: BFB0127,BFB0127,1,28JAN10,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 01281004.d

Spectrum: Average Spectrum: 8.710 to 8.722 min. (SUB)

Location of Maximum: 95.00

Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	676	73.00	3258	112.00	45	155.00	414
37.00	2279	74.00	11338	115.00	170	156.00	50
38.00	2270	75.00	38136	116.00	177	157.00	124
39.00	1123	76.00	3185	117.00	464	160.00	37
40.00	179	77.00	496	118.00	162	164.00	48
43.00	35	78.00	660	119.00	347	170.00	98
44.00	70	79.00	1102	122.00	103	171.00	36
45.00	546	80.00	412	124.00	122	173.00	230
47.00	1372	81.00	1526	125.00	44	174.00	7752
48.00	726	82.00	197	126.00	40	175.00	5283
49.00	2525	86.00	129	128.00	332	176.00	75584
50.00	12184	87.00	3471	129.00	136	177.00	5134
51.00	3699	88.00	3875	130.00	326	178.00	110
52.00	187	89.00	36	131.00	71	184.00	40
55.00	193	91.00	166	132.00	40	190.00	47
56.00	1129	92.00	1990	135.00	74	208.00	39
57.00	1474	93.00	2815	136.00	57	215.00	36
58.00	129	94.00	8604	137.00	111	216.00	37
60.00	866	95.00	92536	139.00	47	224.00	43
61.00	3528	96.00	6177	140.00	106	240.00	43
62.00	2838	97.00	314	141.00	362	241.00	44
63.00	2401	102.00	36	142.00	35	250.00	34
64.00	358	104.00	316	143.00	484	258.00	36
65.00	47	105.00	91	146.00	144	261.00	48
67.00	178	106.00	342	147.00	98	262.00	44
68.00	7123	107.00	35	148.00	179		
69.00	7425	109.00	35	150.00	43		
70.00	364	110.00	41	152.00	56		
72.00	209	111.00	55	153.00	129		

Data File: /chem1/nt5.i/28JAN10.b/01281004.d

Date : 28-JAN-2010 14:17

Client ID: BFB0127

Sample Info: BFB0127,BFB0127,1,28JAN10,

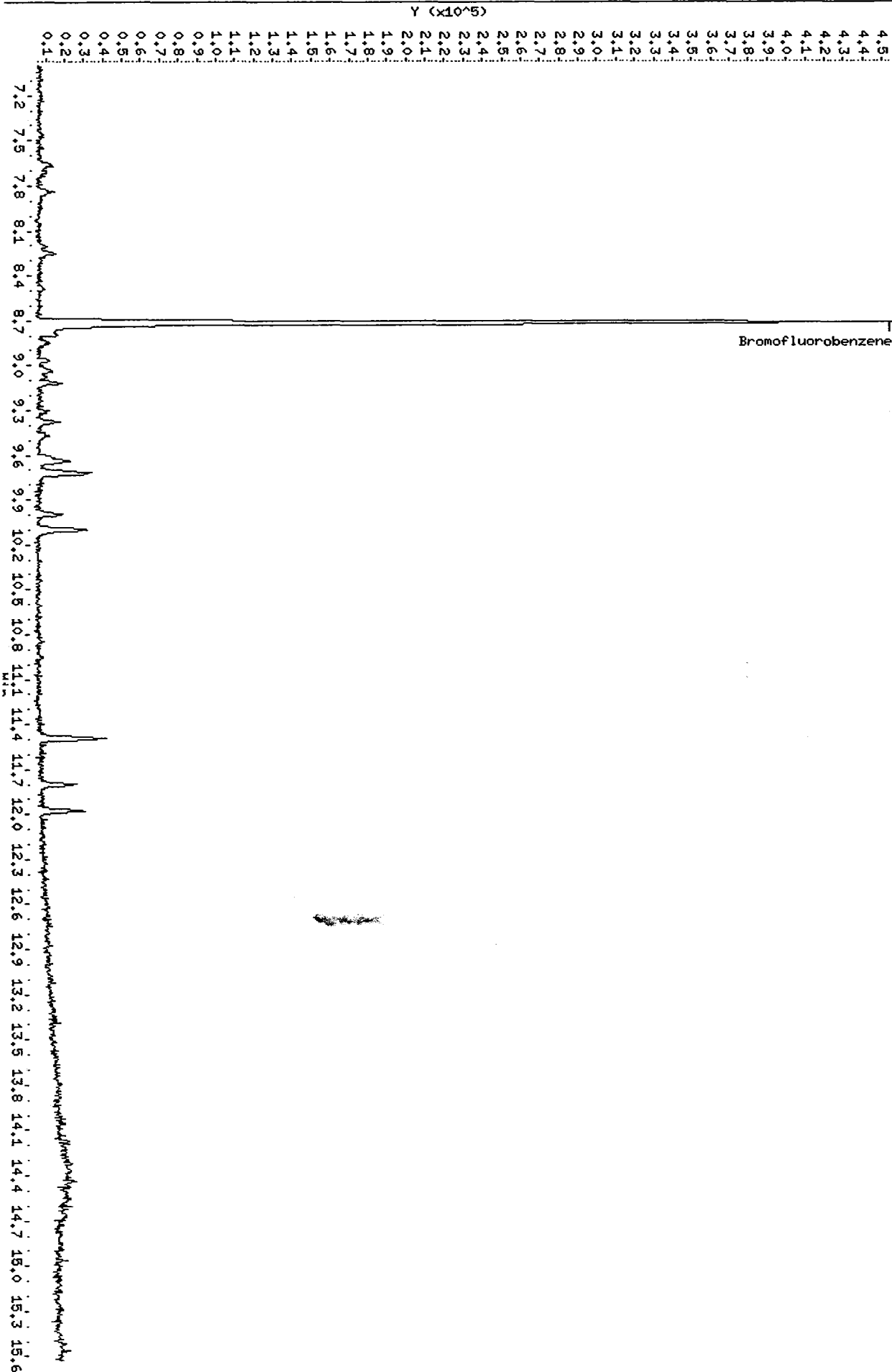
Column phase: RTXVHS

Instrument: nt5.i

Operator: PC

Column diameter: 0.18

/chem1/nt5.i/28JAN10.b/01281004.d



0134 : 00456

Data File: /chem1/nt10.i/22FEB10.b/bfb0222.d

Date : 22-FEB-2010 13:17

Client ID: BFB0222

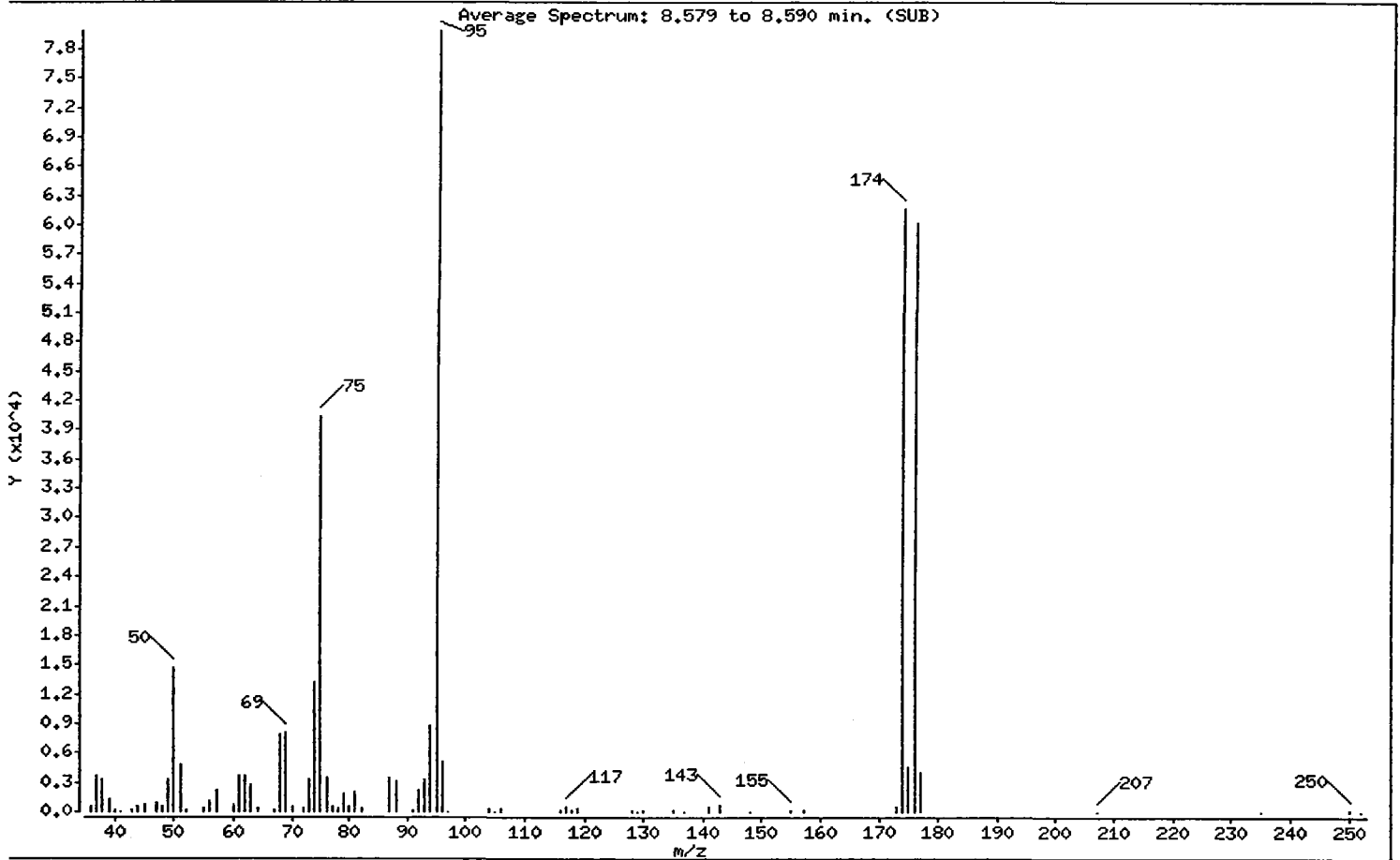
Instrument: nt10.i

Sample Info: BFB0222,BFB0222,,1,22FEB10,,

Operator: ar

Column phase: RTX502,2
1 Bromofluorobenzene

Column diameter: 0.18



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	18.33
75	30.00 - 66.00% of mass 95	50.48
96	5.00 - 9.00% of mass 95	6.39
173	Less than 2.00% of mass 174	0.60 (0.78)
174	50.00 - 101.00% of mass 95	77.14
175	4.00 - 9.00% of mass 174	5.79 (7.51)
176	93.00 - 101.00% of mass 174	75.43 (97.78)
177	5.00 - 9.00% of mass 176	4.96 (6.58)

QL34 : 00447

Data File: /chem1/nt10.i/22FEB10.b/bfb0222.d

Date : 22-FEB-2010 13:17

Client ID: BFB0222

Instrument: nt10.i

Sample Info: BFB0222,BFB0222,,1,22FEB10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb0222.d

Spectrum: Average Spectrum: 8.579 to 8.590 min. (SUB)

Location of Maximum: 95.00

Number of points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	616	61.00	3746	87.00	3421	135.00	119
37.00	3597	62.00	3633	88.00	3129	137.00	66
38.00	3284	63.00	2710	91.00	263	141.00	641
39.00	1243	64.00	286	92.00	2280	143.00	656
40.00	159	67.00	232	93.00	3294	148.00	75
41.00	57	68.00	7933	94.00	8853	155.00	181
43.00	120	69.00	8058	95.00	79816	157.00	104
44.00	465	70.00	606	96.00	5104	173.00	482
45.00	689	72.00	416	97.00	84	174.00	61576
47.00	915	73.00	3372	104.00	331	175.00	4625
48.00	461	74.00	13146	105.00	53	176.00	60208
49.00	3242	75.00	40288	106.00	318	177.00	3959
50.00	14634	76.00	3404	116.00	222	207.00	50
51.00	4827	77.00	514	117.00	472	235.00	53
52.00	197	78.00	351	118.00	260	250.00	167
55.00	295	79.00	1885	119.00	376	252.00	9
56.00	1143	80.00	550	128.00	256		
57.00	2204	81.00	2007	129.00	55		
60.00	775	82.00	443	130.00	261		

Data File: /chem1/nt10.i/22FEB10.b/bfb0222.d
Date : 22-FEB-2010 13:17

Client ID: BFB0222

Sample Info: BFB0222.BFB0222,1,22FEB10,,

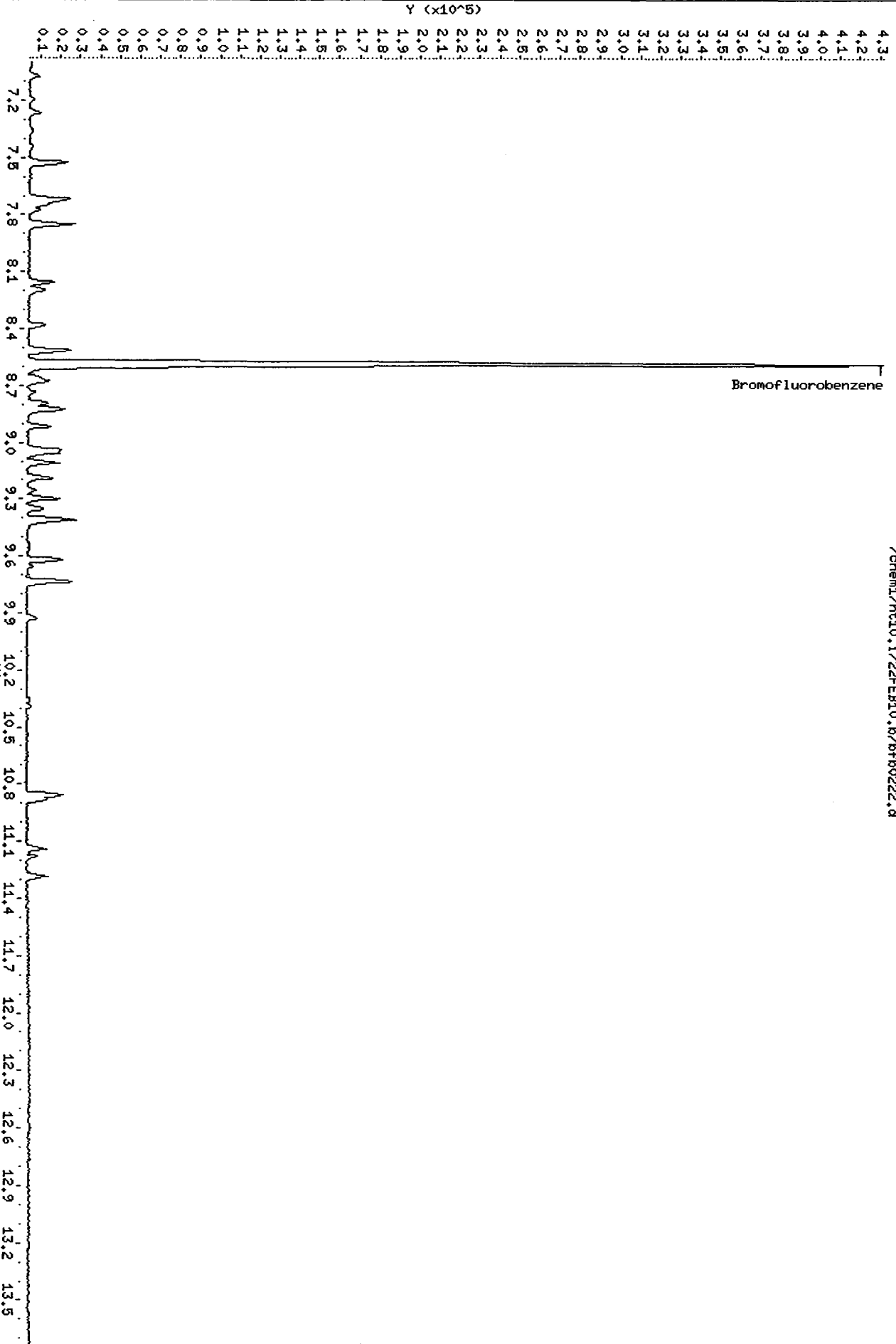
Instrument: nt10.i

Operator: ar

Column diameter: 0.18

Column phase: RTX502.2

/chem1/nt10.i/22FEB10.b/bfb0222.d



PC
2/26/10

Data File: /chem1/nt5.i/25FEB10.b/02251001.d

Page 2

Date : 25-FEB-2010 09:24

Client ID: BFB0225

Instrument: nt5.i

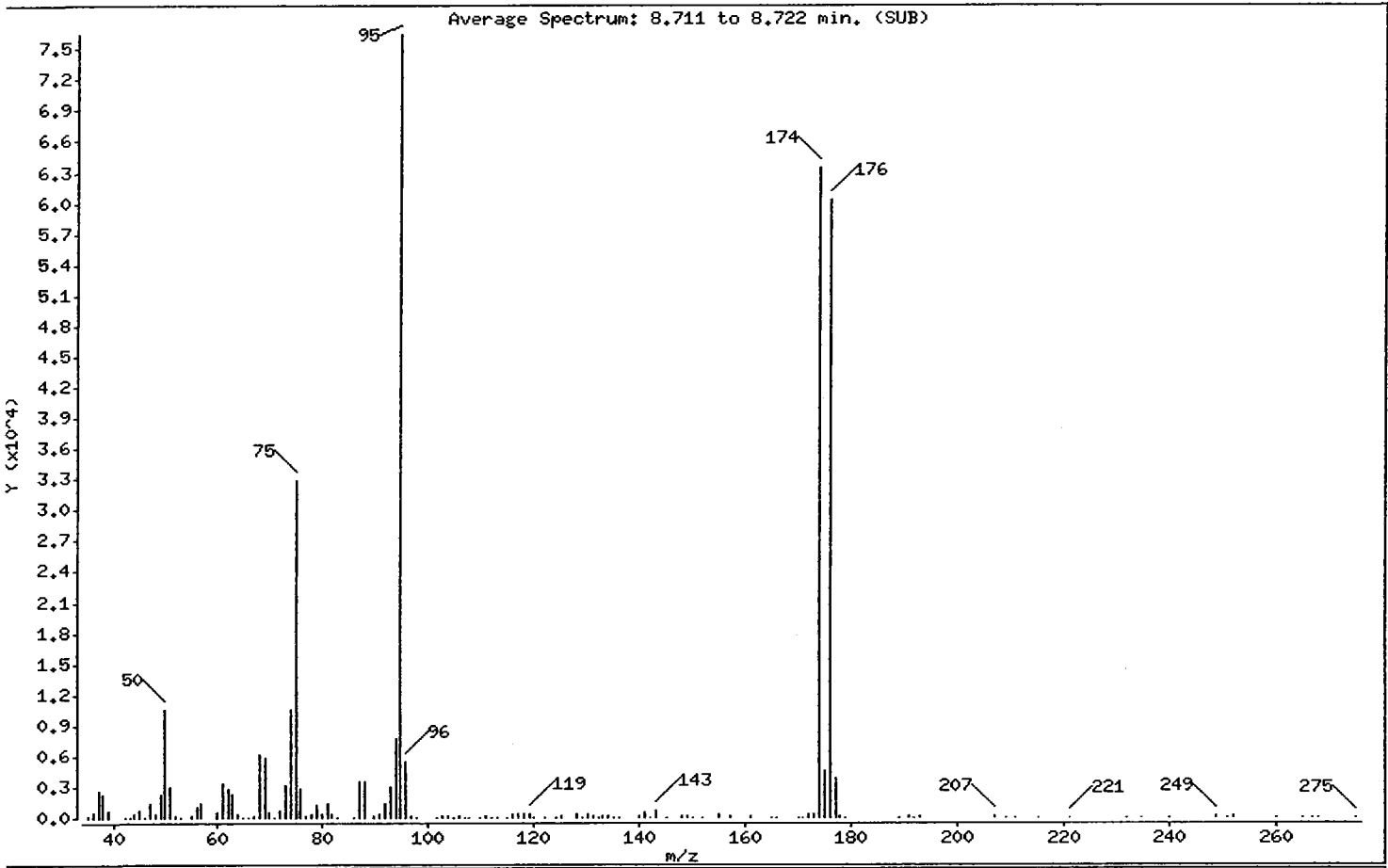
Sample Info: BFB0225,BFB0225,1,25FEB10,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	13.75
75	30.00 - 66.00% of mass 95	42.91
96	5.00 - 9.00% of mass 95	7.13
173	Less than 2.00% of mass 174	0.38 (0.46)
174	50.00 - 101.00% of mass 95	82.99
175	4.00 - 9.00% of mass 174	5.92 (7.13)
176	93.00 - 101.00% of mass 174	78.73 (94.87)
177	5.00 - 9.00% of mass 176	4.99 (6.34)

QL34 : 00450

Date : 25-FEB-2010 09:24

Client ID: BFB0225

Instrument: nt5.i

Sample Info: BFB0225,BFB0225,1,25FEB10,

Operator: PC

Column phase: RTXVMS

Column diameter: 0.18

Data File: 02251001.d

Spectrum: Average Spectrum: 8.711 to 8.722 min. (SUB)

Location of Maximum: 95.00

Number of points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	182	73.00	3145	113.00	80	170.00	36
36.00	471	74.00	10632	115.00	78	171.00	48
37.00	2634	75.00	32800	116.00	385	172.00	309
38.00	2297	76.00	2892	117.00	370	173.00	290
39.00	651	77.00	149	118.00	271	174.00	63448
42.00	34	78.00	411	119.00	400	175.00	4524
43.00	53	79.00	1253	120.00	69	176.00	60192
44.00	379	80.00	368	122.00	38	177.00	3817
45.00	639	81.00	1421	124.00	45	178.00	205
46.00	43	82.00	329	125.00	236	179.00	63
47.00	1346	83.00	40	128.00	278	189.00	47
48.00	369	86.00	76	129.00	55	191.00	109
49.00	2298	87.00	3568	130.00	310	192.00	35
50.00	10514	88.00	3471	131.00	193	193.00	136
51.00	3041	90.00	98	132.00	78	207.00	219
52.00	155	91.00	265	133.00	225	209.00	34
53.00	83	92.00	1461	134.00	128	211.00	52
55.00	244	93.00	3071	135.00	37	215.00	68
56.00	1088	94.00	7683	136.00	77	221.00	66
57.00	1323	95.00	76448	140.00	157	232.00	35
60.00	554	96.00	5453	141.00	536	235.00	46
61.00	3380	97.00	184	142.00	85	240.00	40
62.00	2843	98.00	61	143.00	625	249.00	115
63.00	2208	102.00	34	145.00	46	251.00	55
64.00	282	103.00	123	148.00	189	252.00	89
65.00	41	104.00	258	149.00	119	260.00	38
66.00	75	105.00	70	150.00	58	265.00	62
67.00	212	106.00	221	152.00	42	267.00	39
68.00	6204	107.00	36	155.00	291	268.00	51
69.00	5832	108.00	36	157.00	118	275.00	79
70.00	588	110.00	71	161.00	103		
71.00	42	111.00	138	165.00	46		
72.00	619	112.00	44	166.00	60		

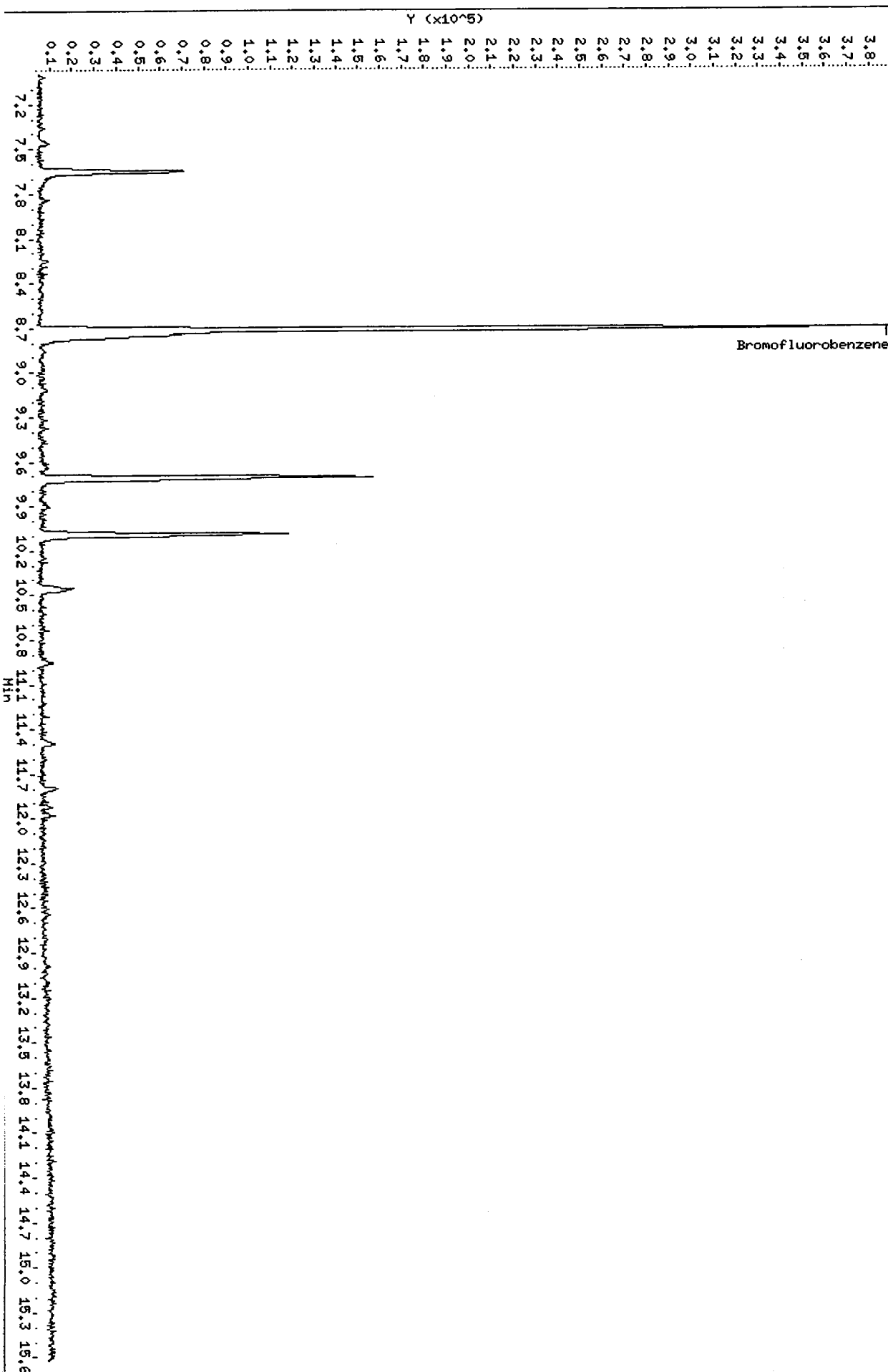
Data File: /chem1/nt5.i/25FEB10.b/02251001.d
Date: 25-FEB-2010 09:24
Client ID: BFB0225
Sample Info: BFB0225,BFB0225,1,25FEB10,

Instrument: nt5.i

Column phase: RTXVMS

Operator: PC
Column diameter: 0.18

/chem1/nt5.i/25FEB10.b/02251001.d



Data File: /chem1/nt10.i/02MAR10.b/bfb0302.d

Date : 02-MAR-2010 09:45

Client ID: BFB0302

Instrument: nt10.i

Sample Info: BFB0302,BFB0302,,1,02MAR10,,

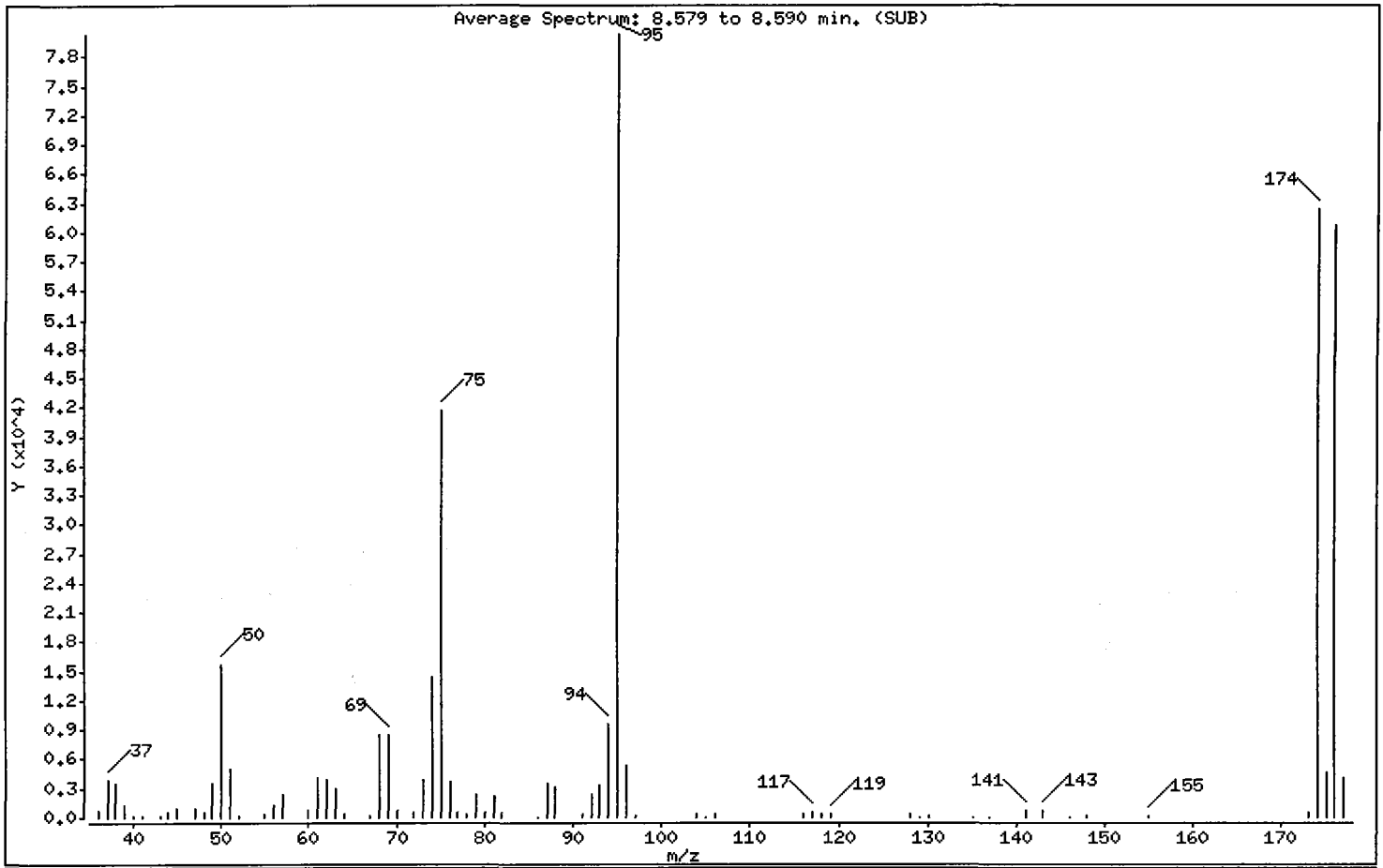
Operator: ar

AR 3/3/2010

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.52
75	30.00 - 66.00% of mass 95	52.00
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.67 (0.86)
174	50.00 - 101.00% of mass 95	77.61
175	4.00 - 9.00% of mass 174	5.84 (7.52)
176	93.00 - 101.00% of mass 174	75.59 (97.39)
177	5.00 - 9.00% of mass 176	5.13 (6.79)

Data File: /chem1/nt10.i/02MAR10.b/bfb0302.d

Date : 02-MAR-2010 09:45

Client ID: BFB0302

Instrument: nt10.i

Sample Info: BFB0302,BFB0302,,1,02MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb0302.d

Spectrum: Average Spectrum: 8.579 to 8.590 min. (SUB)

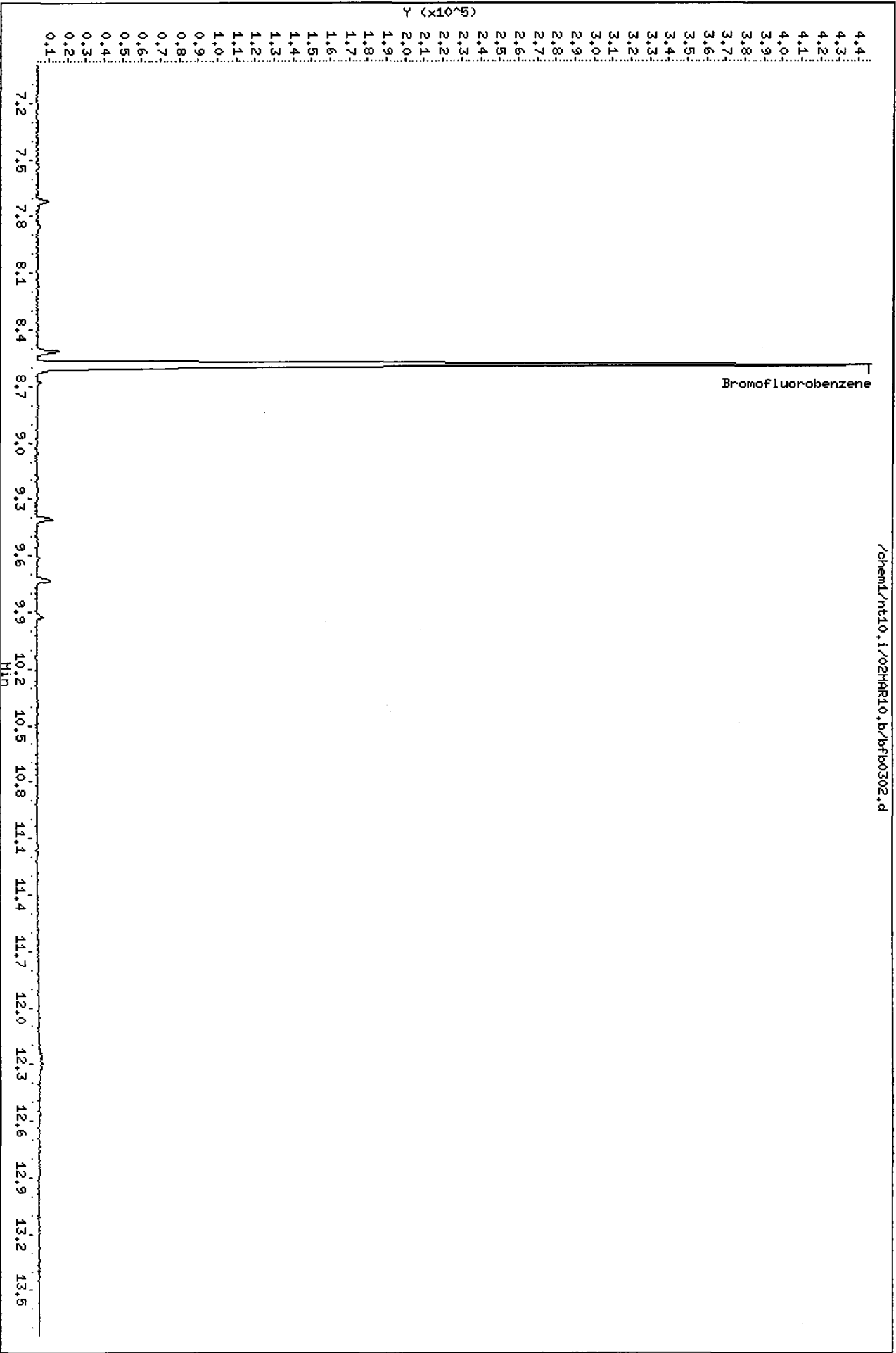
Location of Maximum: 95.00

Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	687	60.00	814	81.00	2304	119.00	431
37.00	3835	61.00	4109	82.00	472	128.00	277
38.00	3508	62.00	3867	86.00	69	129.00	53
39.00	1274	63.00	2872	87.00	3453	130.00	251
40.00	110	64.00	320	88.00	3183	135.00	63
41.00	124	67.00	239	91.00	314	137.00	55
43.00	255	68.00	8402	92.00	2345	141.00	692
44.00	515	69.00	8497	93.00	3296	143.00	757
45.00	864	70.00	747	94.00	9673	146.00	60
47.00	891	72.00	478	95.00	80280	148.00	141
48.00	519	73.00	3878	96.00	5397	155.00	181
49.00	3447	74.00	14323	97.00	134	173.00	535
50.00	15674	75.00	41744	104.00	368	174.00	62312
51.00	4898	76.00	3734	105.00	56	175.00	4688
52.00	222	77.00	466	106.00	303	176.00	60688
55.00	366	78.00	332	116.00	281	177.00	4120
56.00	1259	79.00	2318	117.00	484		
57.00	2382	80.00	633	118.00	315		

Data File: /chem1/nt10.i/02HAR10.b/bfb0302.d
Date : 02-MAR-2010 09:45
Client ID: BFB0302
Sample Info: BFB0302,BFB0302,,1,02HAR10,,
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-022510
METHOD BLANK

Lab Sample ID: MB-022510
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 02/25/10 11:43

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 109%

PC
2/26/10

Data File: /chem1/nt5.i/25FEB10.b/02251006.d
Report Date: 26-Feb-2010 09:59

Page 1

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/25FEB10.b/02251006.d
Lab Smp Id: MB0225A Client Smp ID: MB0225A
Inj Date : 25-FEB-2010 11:43
Operator : PC Inst ID: nt5.i
Smp Info : MB0225A,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:58 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85						
2 Chloromethane	50						
3 Vinyl Chloride	62						
4 Bromomethane	94						
5 Chloroethane	64						
6 Trichlorofluoromethane	101						
12 Acrolein	56						
9 112Trichloro122Trifluoroethane	101						
14 Acetone	43						
7 1,1-Dichloroethene	96						
11 Bromoethane	108						
10 Iodomethane	142						
13 Methylene Chloride	84						
18 Acrylonitrile	53						
16 Methyl tert butyl ether	73						
8 Carbon Disulfide	76						

Compounds	QUANT	SIG	RT	EXP	RT	REL	RT	RESPONSE	CONCENTRATIONS	
									ON-COLUMN	FINAL
	MASS								(ug/L)	(ug/L)
-----	----		==	=====	=====		=====	=====	=====	=====
15 Trans-1,2-Dichloroethene	96			Compound	Not	Detected.				
19 Vinyl Acetate	43			Compound	Not	Detected.				
17 1,1-Dichloroethane	63			Compound	Not	Detected.				
29 2-Butanone	72			Compound	Not	Detected.				
21 2,2-Dichloropropane	77			Compound	Not	Detected.				
20 Cis-1,2-Dichloroethene	96			Compound	Not	Detected.				
32 Pentafluorobenzene	168		4.745	4.740	(1.000)		393036	10.0000		
23 Chloroform	83			Compound	Not	Detected.				
22 Bromochloromethane	128			Compound	Not	Detected.				
25 Dibromofluoromethane	111		4.270	4.264	(0.900)		133470	9.61183	9.612	
26 1,1,1-Trichloroethane	97			Compound	Not	Detected.				
28 1,1-Dichloropropene	75			Compound	Not	Detected.				
24 Carbon Tetrachloride	117			Compound	Not	Detected.				
31 d4-1,2-Dichloroethane	65		4.734	4.728	(0.998)		135373	10.9177	10.918	
33 1,2-Dichloroethane	62			Compound	Not	Detected.				
30 Benzene	78			Compound	Not	Detected.				
35 1,4-Difluorobenzene	114		5.186	5.186	(1.000)		609469	10.0000		
34 Trichloroethene	130			Compound	Not	Detected.				
38 1,2-Dichloropropane	63			Compound	Not	Detected.				
39 Bromodichloromethane	83			Compound	Not	Detected.				
37 Dibromomethane	93			Compound	Not	Detected.				
40 2-Chloroethyl Vinyl Ether	63			Compound	Not	Detected.				
45 4-Methyl-2-Pentanone	58			Compound	Not	Detected.				
41 Cis 1,3-dichloropropene	75			Compound	Not	Detected.				
42 d8-Toluene	98		6.352	6.352	(1.225)		643512	9.70665	9.707	
43 Toluene	92			Compound	Not	Detected.				
46 Trans 1,3-Dichloropropene	75			Compound	Not	Detected.				
51 2-Hexanone	43			Compound	Not	Detected.				
47 1,1,2-Trichloroethane	97			Compound	Not	Detected.				
49 1,3-Dichloropropane	76			Compound	Not	Detected.				
44 Tetrachloroethene	166			Compound	Not	Detected.				
48 Chlorodibromomethane	129			Compound	Not	Detected.				
50 1,2-Dibromoethane	107			Compound	Not	Detected.				
52 d5-Chlorobenzene	117		7.653	7.653	(1.000)		552757	10.0000		
53 Chlorobenzene	112			Compound	Not	Detected.				
54 Ethyl Benzene	91			Compound	Not	Detected.				
55 1,1,1,2-Tetrachloroethane	131			Compound	Not	Detected.				
56 m,p-xylene	106			Compound	Not	Detected.				
57 o-Xylene	106			Compound	Not	Detected.				
58 Styrene	104			Compound	Not	Detected.				
60 Isopropyl Benzene	105			Compound	Not	Detected.				
59 Bromoform	173			Compound	Not	Detected.				
64 1,1,2,2-Tetrachloroethane	83			Compound	Not	Detected.				
61 4-Bromofluorobenzene	95		8.716	8.716	(1.139)		226826	9.11919	9.119	
66 1,2,3-Trichloropropane	110			Compound	Not	Detected.				
68 Trans-1,4-Dichloro 2-Butene	53			Compound	Not	Detected.				
63 N-Propyl Benzene	91			Compound	Not	Detected.				

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
62 Bromobenzene	156				Compound Not Detected.		
67 1,3,5-Trimethyl Benzene	105				Compound Not Detected.		
65 2-Chloro Toluene	91				Compound Not Detected.		
69 4-Chloro Toluene	91				Compound Not Detected.		
70 T-Butyl Benzene	119				Compound Not Detected.		
71 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
72 S-Butyl Benzene	105				Compound Not Detected.		
73 4-Isopropyl Toluene	119				Compound Not Detected.		
74 1,3-Dichlorobenzene	146				Compound Not Detected.		
* 75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	269849	10.0000	
76 1,4-Dichlorobenzene	146				Compound Not Detected.		
77 N-Butyl Benzene	91				Compound Not Detected.		
\$ 78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	245197	10.2908	10.291
79 1,2-Dichlorobenzene	146				Compound Not Detected.		
81 1,2-Dibromo 3-Chloropropane	75				Compound Not Detected.		
83 1,2,4-Trichlorobenzene	180	11.500	11.494	(1.184)	3778	0.12894	0.1289
82 Hexachloro 1,3-Butadiene	225				Compound Not Detected.		
84 Naphthalene	128	11.799	11.799	(1.215)	5829	0.11247	0.1125
85 1,2,3-Trichlorobenzene	180	11.975	11.975	(1.233)	2853	0.12190	0.1219

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i	Calibration Date: 25-FEB-2010
Lab File ID: 02251006.d	Calibration Time: 10:00
Lab Smp Id: MB0225A	Client Smp ID: MB0225A
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m	
Misc Info: 10-	

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	393036	-16.65
35 1,4-Difluorobenze	723083	361542	1446166	609469	-15.71
52 d5-Chlorobenzene	624979	312490	1249958	552757	-11.56
75 d4-1,4-Dichlorobe	328841	164420	657682	269849	-17.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 25FEB10
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0225A Client Smp ID: MB0225A
Level: LOW Operator: PC
Data Type: MS DATA SampleType: BLANK
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
Misc Info: 10-

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.612	96.12	64-133
\$ 31 d4-1,2-Dichloroeth	10.000	10.918	109.18	80-132
\$ 42 d8-Toluene	10.000	9.707	97.07	80-120
\$ 61 4-Bromofluorobenze	10.000	9.119	91.19	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.291	102.91	80-120

Data File: /chem1/nt5.i/25FEB10.b/02251006.d

Date: 25-FEB-2010 11:43

Client ID: HB0225A

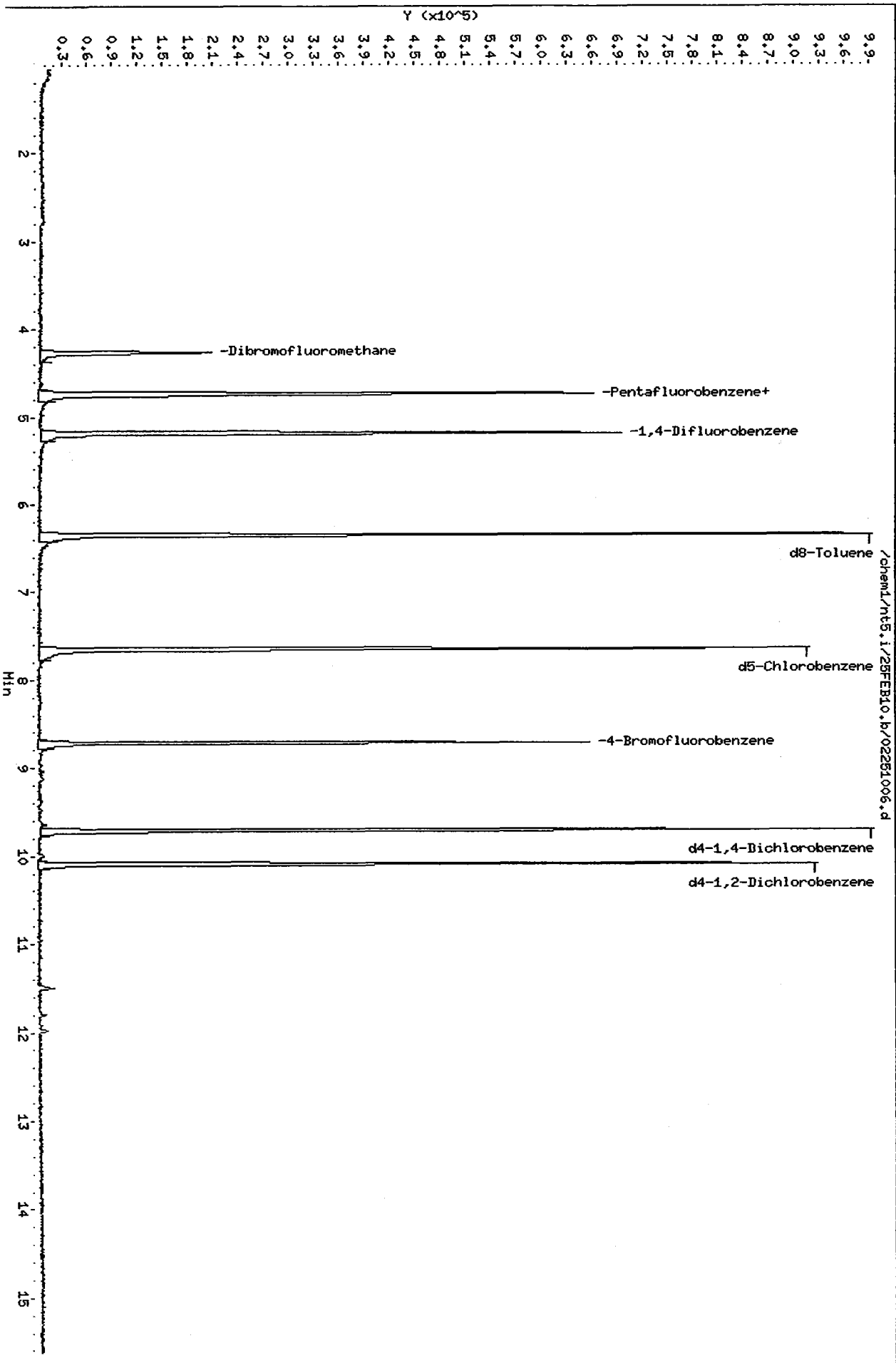
Sample Info: HB0225A,10,10,0,

Column phase: RTXVHS

Instrument: nt5.i

Operator: PC

Column diameter: 0.18



PC
2/26/10

Data File: /chem1/nt5.i/25FEB10.b/02251003.d
Report Date: 26-Feb-2010 09:58

Analytical Resources, Inc.

SW8260C 10 ML
Data file : /chem1/nt5.i/25FEB10.b/02251003.d
Lab Smp Id: LCS0225 Client Smp ID: LCS0225
Inj Date : 25-FEB-2010 10:26
Operator : PC Inst ID: nt5.i
Smp Info : LCS0225,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:57 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Vls bottle: 1 QC Sample: LCS
Dil Factor: 1.00000 Compound Sublist: voa.sub
Integrator: HP RTE
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.034	1.034	(0.218)	103862	7.38735	7.387 (M)
2 Chloromethane	50	1.164	1.164	(0.245)	189969	9.54138	9.541
3 Vinyl Chloride	62	1.221	1.221	(0.257)	218600	9.14499	9.145
4 Bromomethane	94	1.447	1.447	(0.305)	143906	9.03046	9.030 (M)
5 Chloroethane	64	1.543	1.543	(0.325)	146513	9.33295	9.333 (M)
6 Trichlorofluoromethane	101	1.651	1.651	(0.348)	278898	9.90089	9.901
12 Acrolein	56	2.324	2.324	(0.490)	98377	92.2796	92.280 (R)
9 112Trichloro122Trifluoroethane	101	2.092	2.092	(0.441)	210624	9.82257	9.823
14 Acetone	43	2.590	2.584	(0.546)	100508	49.6464	49.646
7 1,1-Dichloroethene	96	2.041	2.041	(0.430)	208857	9.35215	9.352
11 Bromoethane	108	2.250	2.250	(0.474)	153161	9.46499	9.465
10 Iodomethane	142	2.148	2.149	(0.453)	294493	9.05592	9.056
13 Methylene Chloride	84	2.527	2.528	(0.533)	208838	9.43036	9.430
18 Acrylonitrile	53	3.353	3.348	(0.707)	33126	10.2181	10.218
16 Methyl tert butyl ether	73	2.805	2.805	(0.591)	417919	9.74002	9.740
8 Carbon Disulfide	76	2.052	2.052	(0.433)	709314	9.83372	9.834

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
15 Trans-1,2-Dichloroethene	96	2.680	2.675	(0.565)	225025	9.23651	9.237
19 Vinyl Acetate	43	3.597	3.597	(0.758)	205353	9.65465	9.655
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	356871	10.0029	10.003
29 2-Butanone	72	4.411	4.400	(0.930)	62690	48.7838	48.784
21 2,2-Dichloropropane	77	3.925	3.925	(0.827)	321282	10.2481	10.248
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.807)	233094	9.59234	9.592
32 Pentafluorobenzene	168	4.745	4.740	(1.000)	403290	10.0000	
23 Chloroform	83	4.106	4.100	(0.865)	341804	9.80166	9.802
22 Bromochloromethane	128	4.004	4.004	(0.844)	98698	9.98719	9.987
25 Dibromofluoromethane	111	4.270	4.264	(0.900)	144399	10.1345	10.134
26 1,1,1-Trichloroethane	97	4.270	4.264	(0.900)	319456	10.1347	10.135
28 1,1-Dichloropropene	75	4.389	4.389	(0.846)	289675	9.30688	9.307
24 Carbon Tetrachloride	117	4.202	4.196	(0.810)	272573	10.3178	10.318
31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	140024	11.0057	11.006
33 1,2-Dichloroethane	62	4.790	4.790	(0.924)	203528	10.0742	10.074
30 Benzene	78	4.609	4.609	(0.889)	915283	9.74992	9.750
35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	630744	10.0000	
34 Trichloroethene	130	5.135	5.136	(0.990)	246276	9.39812	9.398
38 1,2-Dichloropropane	63	5.582	5.582	(1.076)	199958	9.73133	9.731
39 Bromodichloromethane	83	5.656	5.656	(1.091)	227616	9.48434	9.484
37 Dibromomethane	93	5.486	5.486	(1.058)	90438	9.94861	9.949
40 2-Chloroethyl Vinyl Ether	63	6.176	6.176	(1.191)	55380	7.47554	7.476
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	188306	51.1249	51.125
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	309307	9.42376	9.424
42 d8-Toluene	98	6.352	6.352	(1.225)	674548	9.83159	9.832
43 Toluene	92	6.391	6.391	(1.232)	607300	9.69298	9.693
46 Trans 1,3-Dichloropropene	75	6.759	6.759	(1.303)	252193	9.51400	9.514
51 2-Hexanone	43	7.455	7.455	(0.974)	258570	48.3700	48.370
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	136781	9.76292	9.763
49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	238306	9.41021	9.410
44 Tetrachloroethene	166	6.708	6.708	(0.877)	257378	9.35923	9.359
48 Chlorodibromomethane	129	7.019	7.019	(0.917)	152018	9.02152	9.022
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	127667	9.34812	9.348
52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	558517	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.001)	636315	9.62991	9.630
54 Ethyl Benzene	91	7.709	7.709	(1.007)	1217613	9.94999	9.950 (M)
55 1,1,1,2-Tetrachloroethane	131	7.732	7.732	(1.010)	206633	9.40211	9.402
56 m,p-xylene	106	7.839	7.840	(1.024)	921258	19.8489	19.849
57 o-Xylene	106	8.207	8.202	(1.072)	431261	9.60730	9.607
58 Styrene	104	8.252	8.252	(1.078)	701040	9.57037	9.570
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1075586	9.60462	9.605
59 Bromoform	173	8.247	8.247	(0.849)	78725	9.43987	9.440
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	123398	8.82958	8.830
61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	238198	9.47762	9.478
66 1,2,3-Trichloropropane	110	9.022	9.022	(0.929)	35842	9.08007	9.080
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.073	(0.934)	34643	9.40969	9.410
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	1221847	9.71660	9.717

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
62 Bromobenzene	156	8.795	8.790	(0.906)	247959	9.24276	9.243
67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	877511	9.44289	9.443
65 2-Chloro Toluene	91	8.965	8.971	(0.923)	725373	9.49369	9.494
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	750021	9.66819	9.668
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	769791	9.59640	9.596
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	884728	9.43464	9.435
72 S-Butyl Benzene	105	9.474	9.474	(0.976)	1134117	9.91636	9.916
73 4-Isopropyl Toluene	119	9.616	9.616	(0.990)	920760	9.54722	9.547
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	499772	9.30529	9.305
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	292453	10.0000	
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	496059	9.07207	9.072
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	805829	9.67905	9.679
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	260601	10.0920	10.092
79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	444085	9.42379	9.424
81 1,2-Dibromo 3-Chloropropane	75	10.843	10.843	(1.116)	20851	8.62677	8.627
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	278277	8.76318	8.763
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	122414	10.4203	10.420
84 Naphthalene	128	11.799	11.799	(1.215)	468411	8.33968	8.340
85 1,2,3-Trichlorobenzene	180	11.975	11.975	(1.233)	228144	8.99473	8.995

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i
 Lab File ID: 02251003.d
 Lab Smp Id: LCS0225
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PC
 Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
 Misc Info: 10-

Calibration Date: 25-FEB-2010
 Calibration Time: 10:00
 Client Smp ID: LCS0225
 Level: LOW
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	403290	-14.48
35 1,4-Difluorobenze	723083	361542	1446166	630744	-12.77
52 d5-Chlorobenzene	624979	312490	1249958	558517	-10.63
75 d4-1,4-Dichlorobe	328841	164420	657682	292453	-11.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 25FEB10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0225 Client Smp ID: LCS0225
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCS
 SpikeList File: all.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	7.387	73.87	59-129
16 Methyl tert butyl	10.000	9.740	97.40	78-120
2 Chloromethane	10.000	9.541	95.41	66-123
3 Vinyl Chloride	10.000	9.145	91.45	68-121
4 Bromomethane	10.000	9.030	90.30	55-148
5 Chloroethane	10.000	9.333	93.33	47-155
6 Trichlorofluoromet	10.000	9.901	99.01	70-129
12 Acrolein	50.000	92.280	184.56*	24-170
9 112Trichloro122Tri	10.000	9.823	98.23	74-127
14 Acetone	50.000	49.646	99.29	70-130
7 1,1-Dichloroethene	10.000	9.352	93.52	72-120
11 Bromoethane	10.000	9.465	94.65	73-131
10 Iodomethane	10.000	9.056	90.56	34-183
13 Methylene Chloride	10.000	9.430	94.30	70-124
8 Carbon Disulfide	10.000	9.834	98.34	66-129
18 Acrylonitrile	10.000	10.218	102.18	71-135
15 Trans-1,2-Dichloro	10.000	9.237	92.37	76-120
19 Vinyl Acetate	10.000	9.655	96.55	49-134
17 1,1-Dichloroethane	10.000	10.003	100.03	75-120
29 2-Butanone	50.000	48.784	97.57	78-131
21 2,2-Dichloropropan	10.000	10.248	102.48	68-121
20 Cis-1,2-Dichloroet	10.000	9.592	95.92	80-120
23 Chloroform	10.000	9.802	98.02	78-120
22 Bromochloromethane	10.000	9.987	99.87	79-120
26 1,1,1-Trichloroeth	10.000	10.135	101.35	76-120
28 1,1-Dichloropropen	10.000	9.307	93.07	78-120
24 Carbon Tetrachlori	10.000	10.318	103.18	70-126
33 1,2-Dichloroethane	10.000	10.074	100.74	78-120
30 Benzene	10.000	9.750	97.50	79-120
34 Trichloroethene	10.000	9.398	93.98	78-120
38 1,2-Dichloropropan	10.000	9.731	97.31	80-120
39 Bromodichlorometha	10.000	9.484	94.84	78-120
37 Dibromomethane	10.000	9.949	99.49	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	7.476	74.76	68-134
45 4-Methyl-2-Pentano	50.000	51.125	102.25	73-131
41 Cis 1,3-dichloropr	10.000	9.424	94.24	78-120
43 Toluene	10.000	9.693	96.93	79-120
46 Trans 1,3-Dichloro	10.000	9.514	95.14	75-120
51 2-Hexanone	50.000	48.370	96.74	75-130
47 1,1,2-Trichloroeth	10.000	9.763	97.63	79-120
49 1,3-Dichloropropan	10.000	9.410	94.10	78-120
44 Tetrachloroethene	10.000	9.359	93.59	72-120
48 Chlorodibromometha	10.000	9.022	90.22	78-120
50 1,2-Dibromoethane	10.000	9.348	93.48	75-120
53 Chlorobenzene	10.000	9.630	96.30	79-120
55 1,1,1,2-Tetrachlor	10.000	9.402	94.02	75-120
54 Ethyl Benzene	10.000	9.950	99.50	78-121
56 m,p-xylene	20.000	19.849	99.24	65-129
57 o-Xylene	10.000	9.607	96.07	76-120
58 Styrene	10.000	9.570	95.70	74-121
60 Isopropyl Benzene	10.000	9.605	96.05	74-120
59 Bromoform	10.000	9.440	94.40	71-120
64 1,1,2,2-Tetrachlor	10.000	8.830	88.30	72-120
66 1,2,3-Trichloropro	10.000	9.080	90.80	73-120
68 Trans-1,4-Dichloro	10.000	9.410	94.10	65-135
63 N-Propyl Benzene	10.000	9.717	97.17	76-121
62 Bromobenzene	10.000	9.243	92.43	72-120
67 1,3,5-Trimethyl Be	10.000	9.443	94.43	74-123
65 2-Chloro Toluene	10.000	9.494	94.94	74-120
69 4-Chloro Toluene	10.000	9.668	96.68	75-120
70 T-Butyl Benzene	10.000	9.596	95.96	73-121
71 1,2,4-Trimethylben	10.000	9.435	94.35	73-124
72 S-Butyl Benzene	10.000	9.916	99.16	75-123
73 4-Isopropyl Toluen	10.000	9.547	95.47	71-125
74 1,3-Dichlorobenzen	10.000	9.305	93.05	72-120
76 1,4-Dichlorobenzen	10.000	9.072	90.72	76-120
77 N-Butyl Benzene	10.000	9.679	96.79	72-124
79 1,2-Dichlorobenzen	10.000	9.424	94.24	75-120
81 1,2-Dibromo 3-Chlo	10.000	8.627	86.27	67-121
83 1,2,4-Trichloroben	10.000	8.763	87.63	71-120
82 Hexachloro 1,3-But	10.000	10.420	104.20	67-124
84 Naphthalene	10.000	8.340	83.40	71-125
85 1,2,3-Trichloroben	10.000	8.995	89.95	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	10.134	101.34	64-133

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 31 d4-1,2-Dichloroeth	10.000	11.006	110.06	80-132
\$ 42 d8-Toluene	10.000	9.832	98.32	80-120
\$ 61 4-Bromofluorobenze	10.000	9.478	94.78	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.092	100.92	80-120

Data File: /chem1/nt5.i/25FEB10.b/02251003.d

Date: 25-FEB-2010 10:26

Client ID: LCS0225

Sample Info: LCS0225,10,10,0,

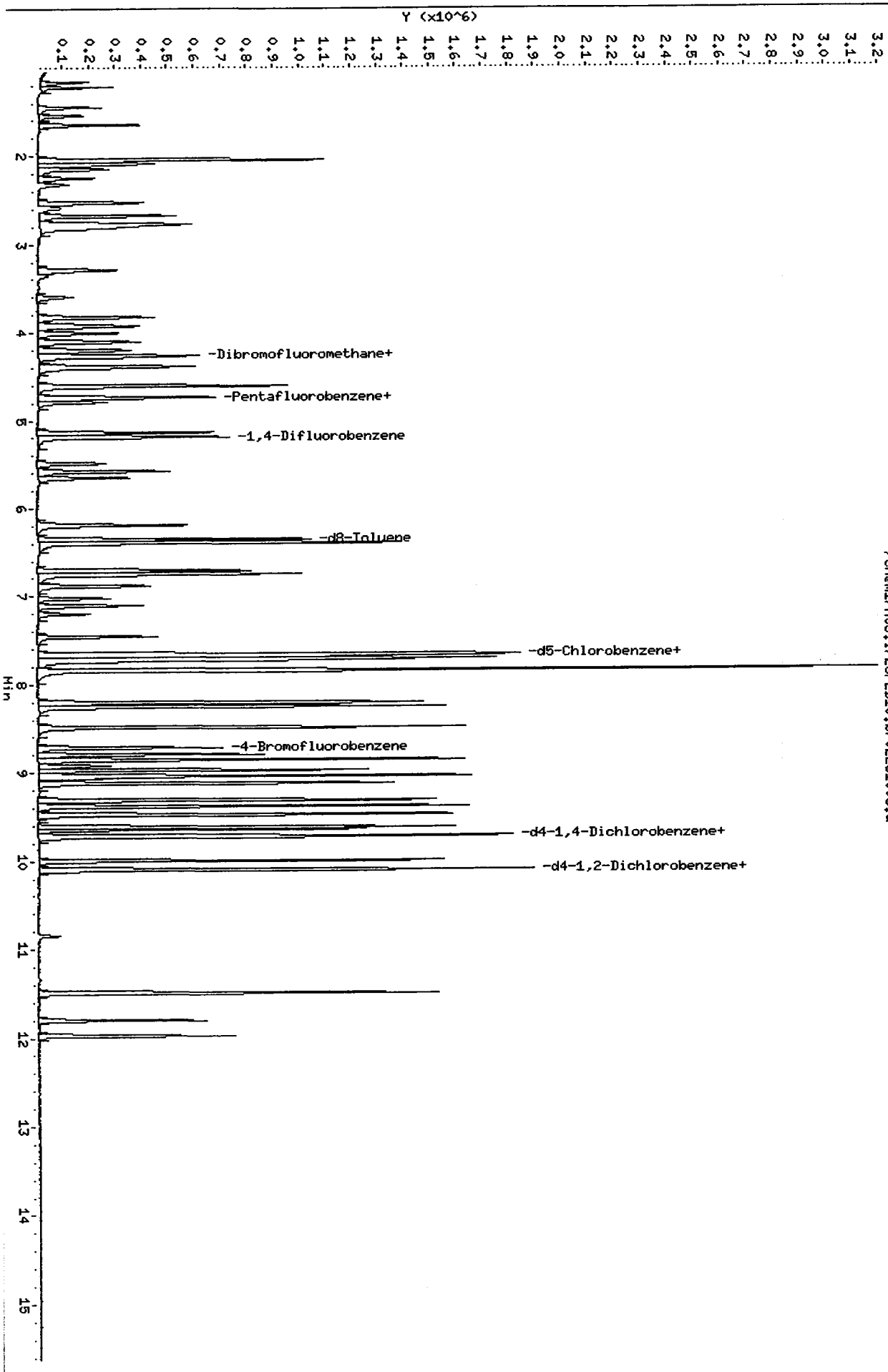
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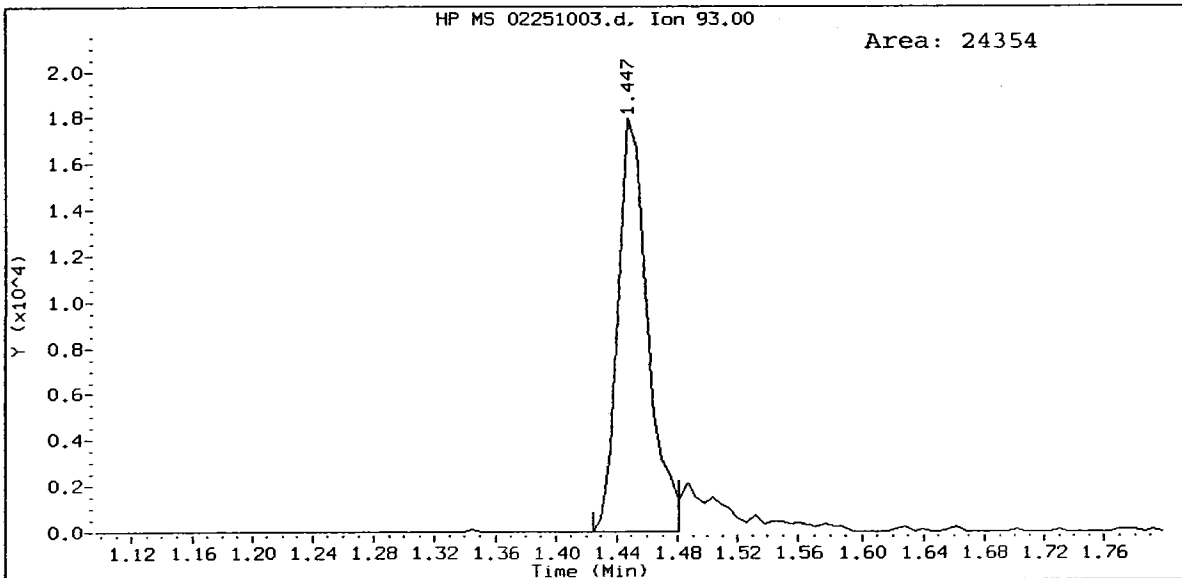
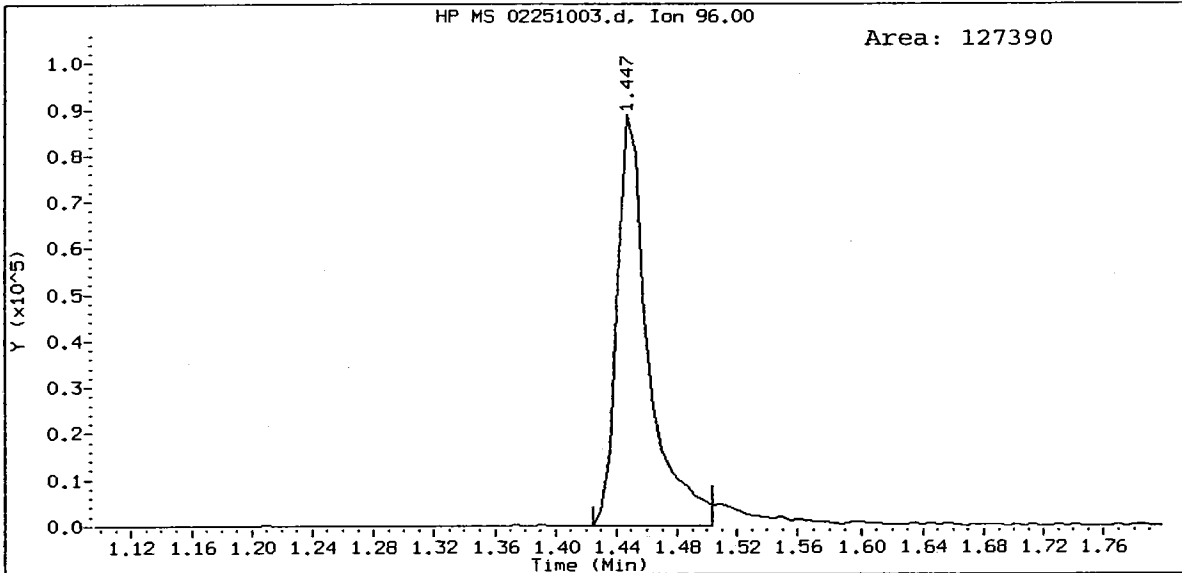
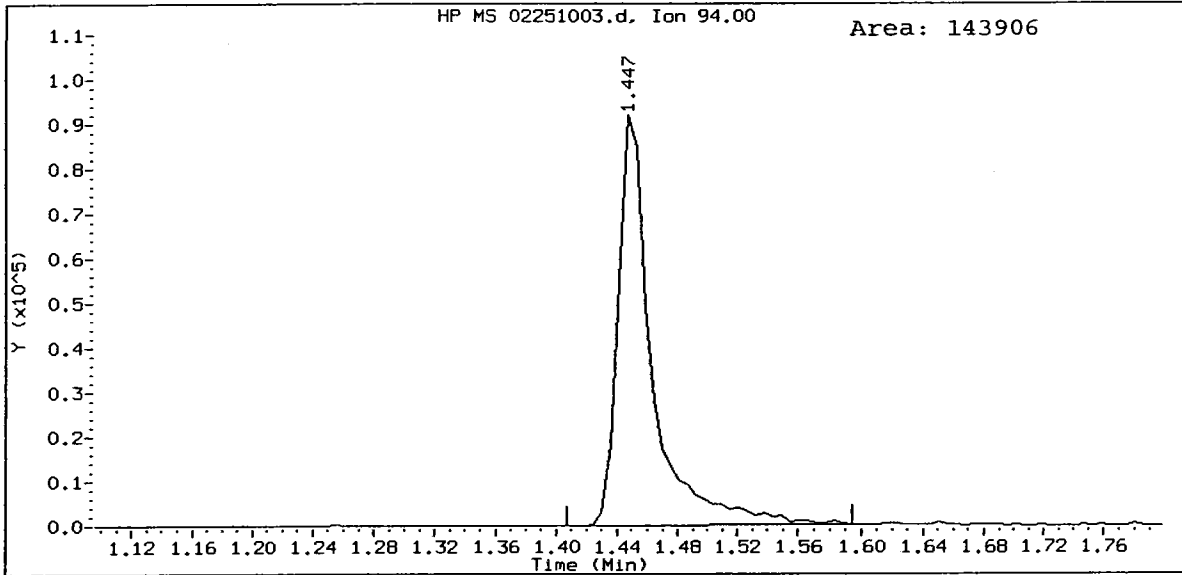
Instrument: nt5.i

Operator: PC

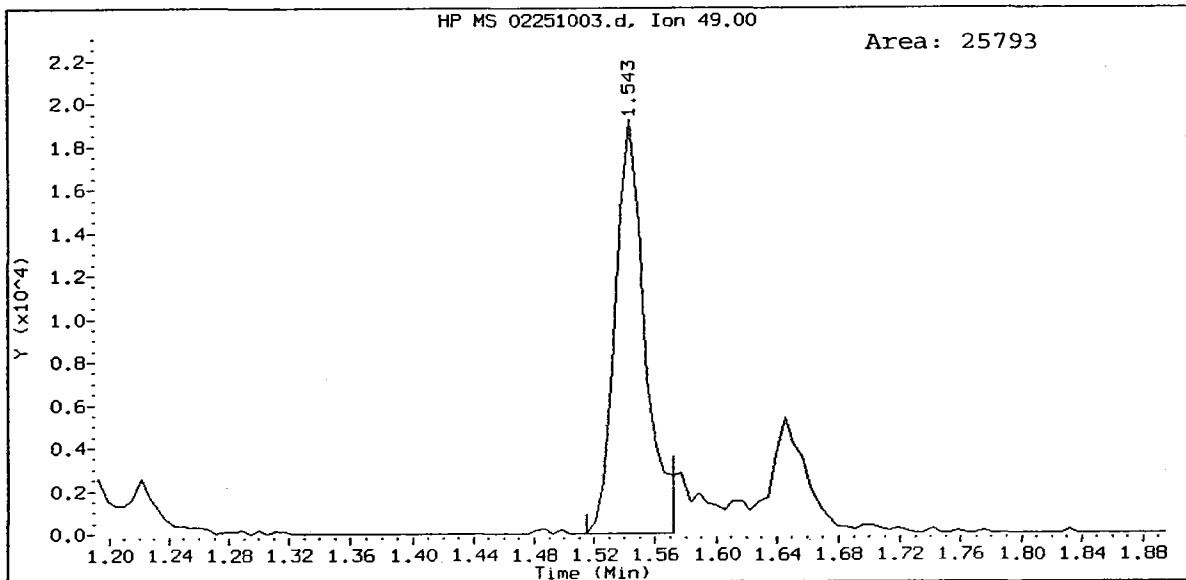
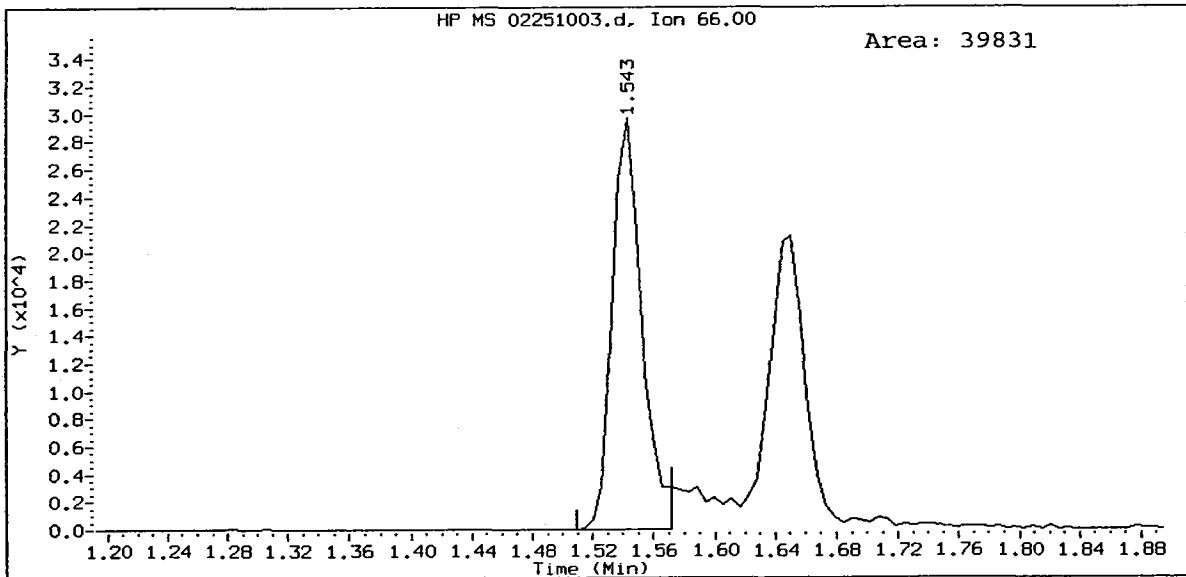
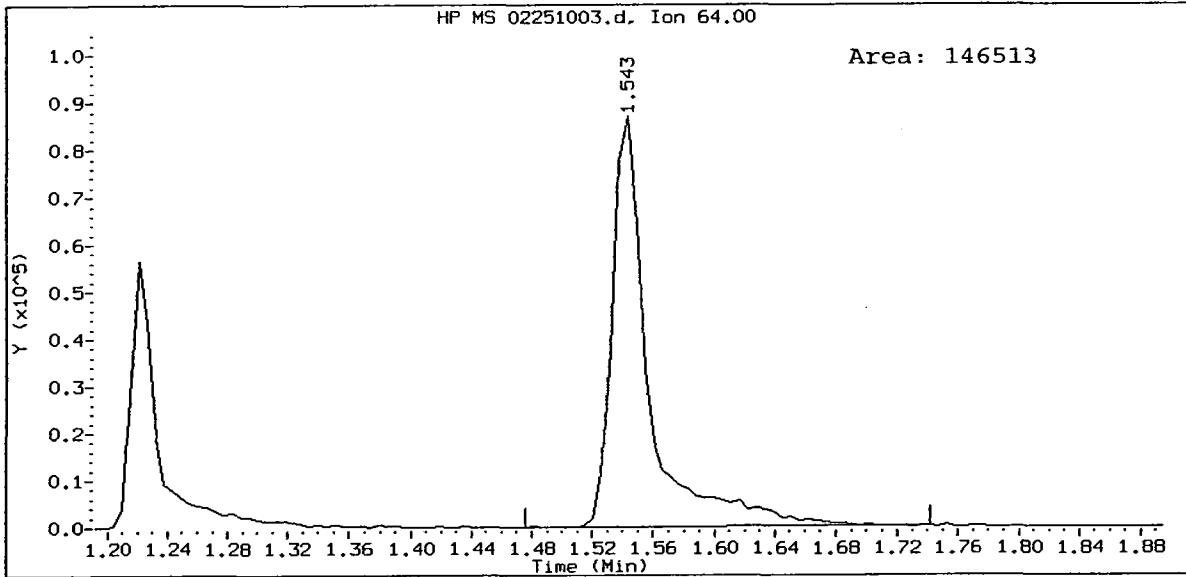
Column diameter: 0.18

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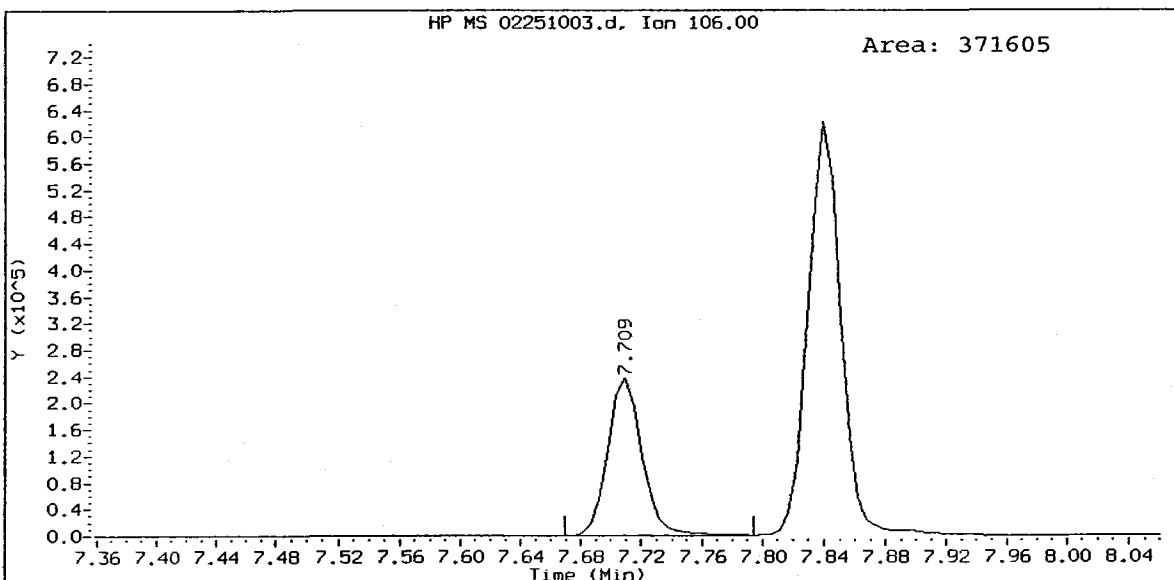
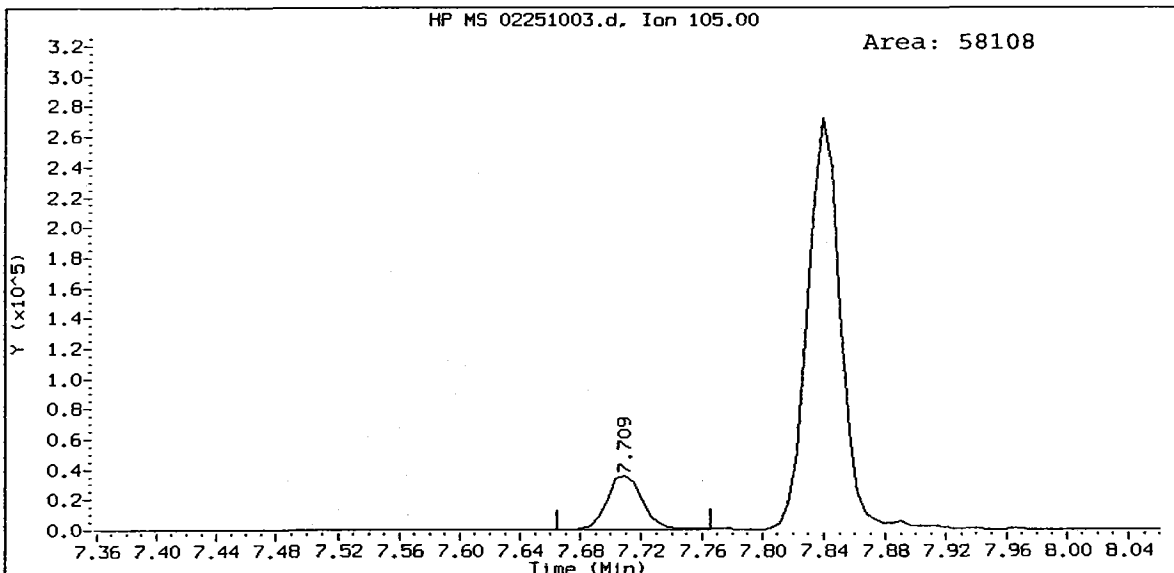
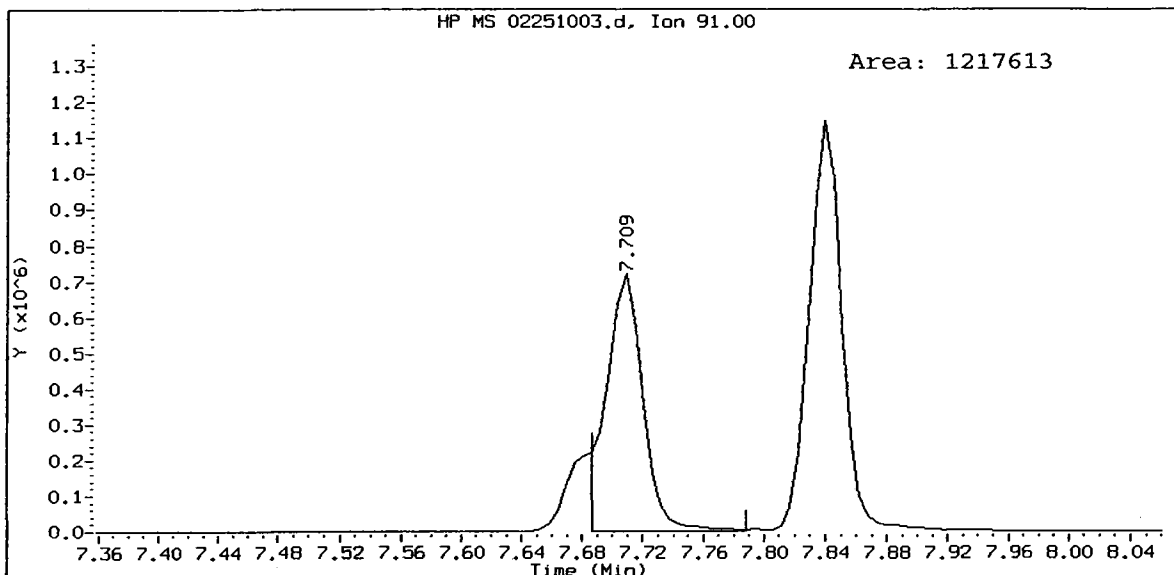


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Chloroethane Amount: 9.33

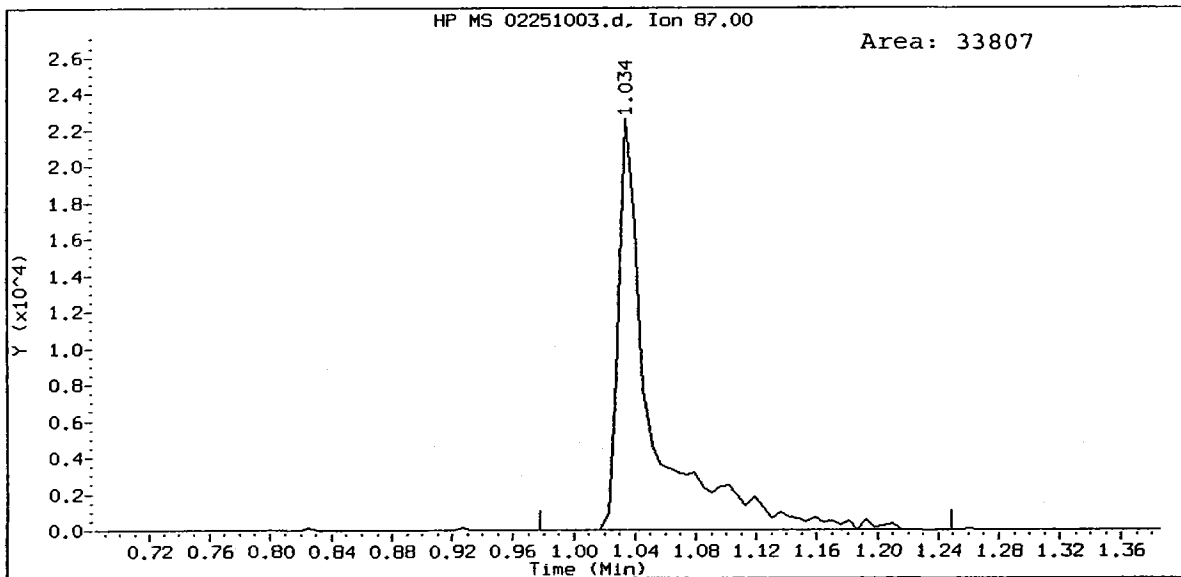
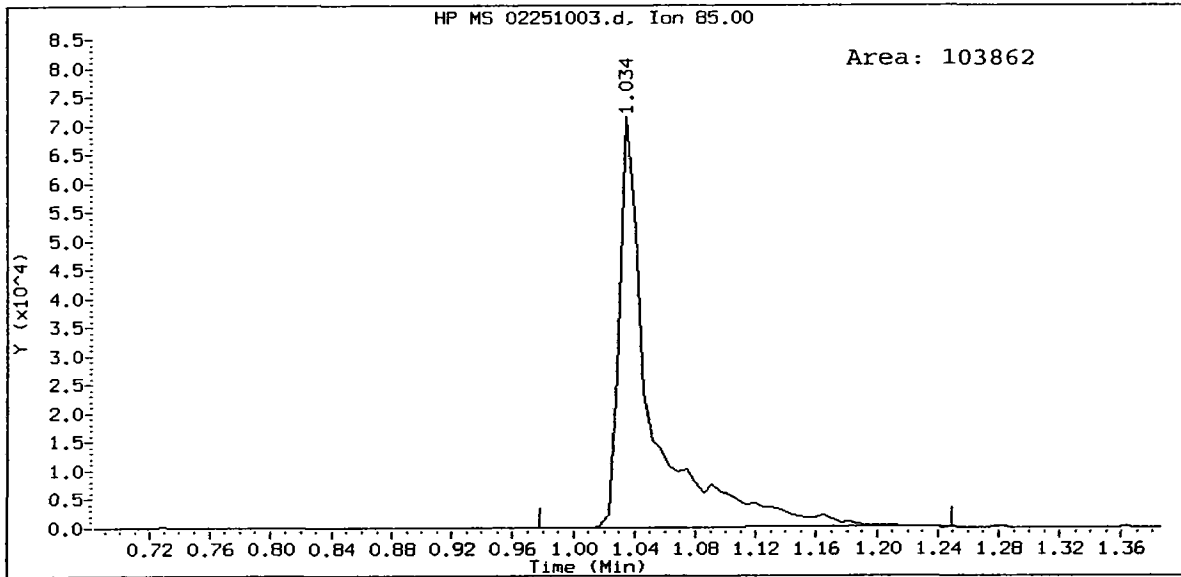


QL34:00472

LCS0225, /chem1/nt5.i/25FEB10.b/02251003.d
Ethyl Benzene Amount: 9.95



LCS0225, /chem1/nt5.i/25FEB10.b/02251003.d
Dichlorodifluoromethane Amount: 7.39



PC
2/26/10

Data File: /chem1/nt5.i/25FEB10.b/02251004.d
Report Date: 26-Feb-2010 09:58

Analytical Resources, Inc.

SW8260C 10 ML

Data file : /chem1/nt5.i/25FEB10.b/02251004.d
Lab Smp Id: LCSD0225 Client Smp ID: LCSD0225
Inj Date : 25-FEB-2010 10:51
Operator : PC Inst ID: nt5.i
Smp Info : LCSD0225,10,10,0,
Misc Info : 10-
Comment :
Method : /chem1/nt5.i/25FEB10.b/8260c012810L.m
Meth Date : 26-Feb-2010 09:57 paul Quant Type: ISTD
Cal Date : 28-JAN-2010 18:05 Cal File: 01281012.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.040	1.034	(0.219)	101648	6.95717	6.957 (M)
2 Chloromethane	50	1.170	1.164	(0.247)	187130	9.04423	9.044
3 Vinyl Chloride	62	1.226	1.221	(0.258)	209887	8.44925	8.449
4 Bromomethane	94	1.453	1.447	(0.306)	142737	8.61916	8.619
5 Chloroethane	64	1.543	1.543	(0.325)	144819	8.87702	8.877 (M)
6 Trichlorofluoromethane	101	1.651	1.651	(0.348)	275556	9.41323	9.413
12 Acrolein	56	2.324	2.324	(0.490)	95544	86.2413	86.241 (R)
9 1,1,1-Trichloro-2,2,2-Trifluoroethane	101	2.092	2.092	(0.441)	206823	9.28145	9.281
14 Acetone	43	2.590	2.584	(0.546)	102847	48.8853	48.885
7 1,1-Dichloroethene	96	2.047	2.041	(0.431)	204136	8.79593	8.796
11 Bromoethane	108	2.256	2.250	(0.475)	152250	9.05376	9.054
10 Iodomethane	142	2.154	2.149	(0.454)	298868	8.84376	8.844
13 Methylene Chloride	84	2.533	2.528	(0.534)	199745	8.67950	8.679
18 Acrylonitrile	53	3.359	3.348	(0.708)	31685	9.40492	9.405
16 Methyl tert butyl ether	73	2.810	2.805	(0.592)	413962	9.28385	9.284
8 Carbon Disulfide	76	2.052	2.052	(0.433)	712061	9.49940	9.499

Compounds	QUANT SIG			CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
15 Trans-1,2-Dichloroethene	96	2.680	2.675	(0.565)	227188	8.97351	8.974
19 Vinyl Acetate	43	3.597	3.597	(0.758)	202732	9.17186	9.172
17 1,1-Dichloroethane	63	3.291	3.291	(0.694)	349302	9.42141	9.421
29 2-Butanone	72	4.406	4.400	(0.928)	64941	48.6291	48.629
21 2,2-Dichloropropane	77	3.925	3.925	(0.827)	310314	9.52488	9.525
20 Cis-1,2-Dichloroethene	96	3.829	3.823	(0.807)	223842	8.86410	8.864
* 32 Pentafluorobenzene	168	4.745	4.740	(1.000)	419100	10.0000	
23 Chloroform	83	4.106	4.100	(0.865)	337300	9.30762	9.308
22 Bromochloromethane	128	4.010	4.004	(0.845)	98741	9.61463	9.615
\$ 25 Dibromofluoromethane	111	4.270	4.264	(0.900)	144747	9.77567	9.776
26 1,1,1-Trichloroethane	97	4.270	4.264	(0.900)	313405	9.56766	9.568
28 1,1-Dichloropropene	75	4.389	4.389	(0.846)	292551	9.31708	9.317
24 Carbon Tetrachloride	117	4.202	4.196	(0.810)	265302	9.95473	9.955
\$ 31 d4-1,2-Dichloroethane	65	4.734	4.728	(0.998)	138905	10.5059	10.506
33 1,2-Dichloroethane	62	4.796	4.790	(0.925)	196623	9.64731	9.647
30 Benzene	78	4.609	4.609	(0.889)	904533	9.55113	9.551
* 35 1,4-Difluorobenzene	114	5.186	5.186	(1.000)	636309	10.0000	
34 Trichloroethene	130	5.141	5.136	(0.991)	243778	9.22143	9.221
38 1,2-Dichloropropane	63	5.582	5.582	(1.076)	201522	9.72167	9.722
39 Bromodichloromethane	83	5.656	5.656	(1.091)	229323	9.47190	9.472
37 Dibromomethane	93	5.492	5.486	(1.059)	87616	9.55388	9.554
40 2-Chloroethyl Vinyl Ether	63	6.176	6.176	(1.191)	54002	7.22577	7.226
45 4-Methyl-2-Pentanone	58	6.742	6.742	(1.300)	181641	48.8840	48.884
41 Cis 1,3-dichloropropene	75	6.193	6.193	(1.194)	308237	9.30903	9.309
\$ 42 d8-Toluene	98	6.352	6.352	(1.225)	683548	9.87564	9.876
43 Toluene	92	6.391	6.391	(1.232)	609939	9.64996	9.650
46 Trans 1,3-Dichloropropene	75	6.759	6.759	(1.303)	244473	9.14211	9.142
51 2-Hexanone	43	7.455	7.455	(0.974)	268454	49.5165	49.516
47 1,1,2-Trichloroethane	97	6.883	6.883	(1.327)	140145	9.91555	9.916
49 1,3-Dichloropropane	76	7.104	7.104	(0.928)	241876	9.41757	9.418
44 Tetrachloroethene	166	6.708	6.708	(0.877)	252697	9.06046	9.060
48 Chlorodibromomethane	129	7.019	7.019	(0.917)	156203	9.14021	9.140
50 1,2-Dibromoethane	107	7.200	7.200	(1.388)	131141	9.51852	9.519
* 52 d5-Chlorobenzene	117	7.653	7.653	(1.000)	566441	10.0000	
53 Chlorobenzene	112	7.664	7.664	(1.001)	642688	9.59030	9.590
54 Ethyl Benzene	91	7.709	7.709	(1.007)	1206840	9.72400	9.724 (M)
55 1,1,1,2-Tetrachloroethane	131	7.726	7.732	(1.010)	203941	9.14981	9.150
56 m,p-xylene	106	7.839	7.840	(1.024)	893274	18.9767	18.977
57 o-Xylene	106	8.201	8.202	(1.072)	423795	9.30890	9.309
58 Styrene	104	8.252	8.252	(1.078)	672864	9.05722	9.057
60 Isopropyl Benzene	105	8.484	8.484	(0.874)	1061760	9.41650	9.417
59 Bromoform	173	8.252	8.247	(0.850)	79110	9.42135	9.421
64 1,1,2,2-Tetrachloroethane	83	8.920	8.920	(0.918)	123251	8.75892	8.759
\$ 61 4-Bromofluorobenzene	95	8.716	8.716	(1.139)	238049	9.33919	9.339
66 1,2,3-Trichloropropane	110	9.022	9.022	(0.929)	37452	9.42324	9.423
68 Trans-1,4-Dichloro 2-Butene	53	9.073	9.073	(0.934)	36228	9.77311	9.773
63 N-Propyl Benzene	91	8.852	8.852	(0.911)	1216713	9.60979	9.610

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
62 Bromobenzene	156	8.790	8.790	(0.905)	240456	8.90196	8.902
67 1,3,5-Trimethyl Benzene	105	9.039	9.039	(0.931)	864225	9.23650	9.236
65 2-Chloro Toluene	91	8.965	8.971	(0.923)	716607	9.31500	9.315
69 4-Chloro Toluene	91	9.118	9.118	(0.939)	734084	9.39822	9.398
70 T-Butyl Benzene	119	9.310	9.310	(0.959)	751293	9.30193	9.302
71 1,2,4-Trimethylbenzene	105	9.378	9.378	(0.966)	872424	9.23998	9.240
72 S-Butyl Benzene	105	9.474	9.474	(0.976)	1112929	9.66474	9.665
73 4-Isopropyl Toluene	119	9.610	9.616	(0.990)	904841	9.31818	9.318
74 1,3-Dichlorobenzene	146	9.638	9.638	(0.992)	491631	9.09129	9.091
75 d4-1,4-Dichlorobenzene	152	9.712	9.712	(1.000)	294461	10.0000	
76 1,4-Dichlorobenzene	146	9.723	9.723	(1.001)	489750	8.89561	8.896
77 N-Butyl Benzene	91	9.995	9.995	(1.029)	790165	9.42619	9.426
78 d4-1,2-Dichlorobenzene	152	10.091	10.091	(1.039)	261606	10.0618	10.062
79 1,2-Dichlorobenzene	146	10.102	10.102	(1.040)	426195	8.98248	8.982
81 1,2-Dibromo 3-Chloropropane	75	10.849	10.843	(1.117)	20858	8.57081	8.571
83 1,2,4-Trichlorobenzene	180	11.494	11.494	(1.183)	270559	8.46203	8.462
82 Hexachloro 1,3-Butadiene	225	11.488	11.488	(1.183)	120567	10.1931	10.193
84 Naphthalene	128	11.799	11.799	(1.215)	470656	8.32251	8.323
85 1,2,3-Trichlorobenzene	180	11.975	11.975	(1.233)	231438	9.06238	9.062

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt5.i	Calibration Date: 25-FEB-2010
Lab File ID: 02251004.d	Calibration Time: 10:00
Lab Smp Id: LCSD0225	Client Smp ID: LCSD0225
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: PC	
Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m	
Misc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	471555	235778	943110	419100	-11.12
35 1,4-Difluorobenze	723083	361542	1446166	636309	-12.00
52 d5-Chlorobenzene	624979	312490	1249958	566441	-9.37
75 d4-1,4-Dichlorobe	328841	164420	657682	294461	-10.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.74	4.24	5.24	4.75	0.12
35 1,4-Difluorobenze	5.19	4.69	5.69	5.19	0.00
52 d5-Chlorobenzene	7.65	7.15	8.15	7.65	0.00
75 d4-1,4-Dichlorobe	9.71	9.21	10.21	9.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 25FEB10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCSD0225 Client Smp ID: LCSD0225
 Level: LOW Operator: PC
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: all.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt5.i/25FEB10.b/8260c012810L.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	6.957	69.57	59-129
16 Methyl tert butyl	10.000	9.284	92.84	78-120
2 Chloromethane	10.000	9.044	90.44	66-123
3 Vinyl Chloride	10.000	8.449	84.49	68-121
4 Bromomethane	10.000	8.619	86.19	55-148
5 Chloroethane	10.000	8.877	88.77	47-155
6 Trichlorofluoromet	10.000	9.413	94.13	70-129
12 Acrolein	50.000	86.241	172.48*	24-170
9 112Trichloro122Tri	10.000	9.281	92.81	74-127
14 Acetone	50.000	48.885	97.77	70-130
7 1,1-Dichloroethene	10.000	8.796	87.96	72-120
11 Bromoethane	10.000	9.054	90.54	73-131
10 Iodomethane	10.000	8.844	88.44	34-183
13 Methylene Chloride	10.000	8.679	86.79	70-124
8 Carbon Disulfide	10.000	9.499	94.99	66-129
18 Acrylonitrile	10.000	9.405	94.05	71-135
15 Trans-1,2-Dichloro	10.000	8.974	89.74	76-120
19 Vinyl Acetate	10.000	9.172	91.72	49-134
17 1,1-Dichloroethane	10.000	9.421	94.21	75-120
29 2-Butanone	50.000	48.629	97.26	78-131
21 2,2-Dichloropropan	10.000	9.525	95.25	68-121
20 Cis-1,2-Dichloroet	10.000	8.864	88.64	80-120
23 Chloroform	10.000	9.308	93.08	78-120
22 Bromochloromethane	10.000	9.615	96.15	79-120
26 1,1,1-Trichloroeth	10.000	9.568	95.68	76-120
28 1,1-Dichloropropen	10.000	9.317	93.17	78-120
24 Carbon Tetrachlori	10.000	9.955	99.55	70-126
33 1,2-Dichloroethane	10.000	9.647	96.47	78-120
30 Benzene	10.000	9.551	95.51	79-120
34 Trichloroethene	10.000	9.221	92.21	78-120
38 1,2-Dichloropropan	10.000	9.722	97.22	80-120
39 Bromodichlorometha	10.000	9.472	94.72	78-120
37 Dibromomethane	10.000	9.554	95.54	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	7.226	72.26	68-134
45 4-Methyl-2-Pentano	50.000	48.884	97.77	73-131
41 Cis 1,3-dichloropr	10.000	9.309	93.09	78-120
43 Toluene	10.000	9.650	96.50	79-120
46 Trans 1,3-Dichloro	10.000	9.142	91.42	75-120
51 2-Hexanone	50.000	49.516	99.03	75-130
47 1,1,2-Trichloroeth	10.000	9.916	99.16	79-120
49 1,3-Dichloropropan	10.000	9.418	94.18	78-120
44 Tetrachloroethene	10.000	9.060	90.60	72-120
48 Chlorodibromometha	10.000	9.140	91.40	78-120
50 1,2-Dibromoethane	10.000	9.519	95.19	75-120
53 Chlorobenzene	10.000	9.590	95.90	79-120
55 1,1,1,2-Tetrachlor	10.000	9.150	91.50	75-120
54 Ethyl Benzene	10.000	9.724	97.24	78-121
56 m,p-xylene	20.000	18.977	94.88	65-129
57 o-Xylene	10.000	9.309	93.09	76-120
58 Styrene	10.000	9.057	90.57	74-121
60 Isopropyl Benzene	10.000	9.417	94.17	74-120
59 Bromoform	10.000	9.421	94.21	71-120
64 1,1,2,2-Tetrachlor	10.000	8.759	87.59	72-120
66 1,2,3-Trichloropro	10.000	9.423	94.23	73-120
68 Trans-1,4-Dichloro	10.000	9.773	97.73	65-135
63 N-Propyl Benzene	10.000	9.610	96.10	76-121
62 Bromobenzene	10.000	8.902	89.02	72-120
67 1,3,5-Trimethyl Be	10.000	9.236	92.36	74-123
65 2-Chloro Toluene	10.000	9.315	93.15	74-120
69 4-Chloro Toluene	10.000	9.398	93.98	75-120
70 T-Butyl Benzene	10.000	9.302	93.02	73-121
71 1,2,4-Trimethylben	10.000	9.240	92.40	73-124
72 S-Butyl Benzene	10.000	9.665	96.65	75-123
73 4-Isopropyl Toluen	10.000	9.318	93.18	71-125
74 1,3-Dichlorobenzen	10.000	9.091	90.91	72-120
76 1,4-Dichlorobenzen	10.000	8.896	88.96	76-120
77 N-Butyl Benzene	10.000	9.426	94.26	72-124
79 1,2-Dichlorobenzen	10.000	8.982	89.82	75-120
81 1,2-Dibromo 3-Chlo	10.000	8.571	85.71	67-121
83 1,2,4-Trichloroben	10.000	8.462	84.62	71-120
82 Hexachloro 1,3-But	10.000	10.193	101.93	67-124
84 Naphthalene	10.000	8.323	83.23	71-125
85 1,2,3-Trichloroben	10.000	9.062	90.62	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	10.000	9.776	97.76	64-133

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 31 d4-1,2-Dichloroeth	10.000	10.506	105.06	80-132
\$ 42 d8-Toluene	10.000	9.876	98.76	80-120
\$ 61 4-Bromofluorobenze	10.000	9.339	93.39	80-120
\$ 78 d4-1,2-Dichloroben	10.000	10.062	100.62	80-120

Data File: /chem1/nt5.i/25FEB10.b/02251004.d

Date : 26-FEB-2010 10:51

Client ID: LCS0225

Sample Info: LCS0225,10,10,0,

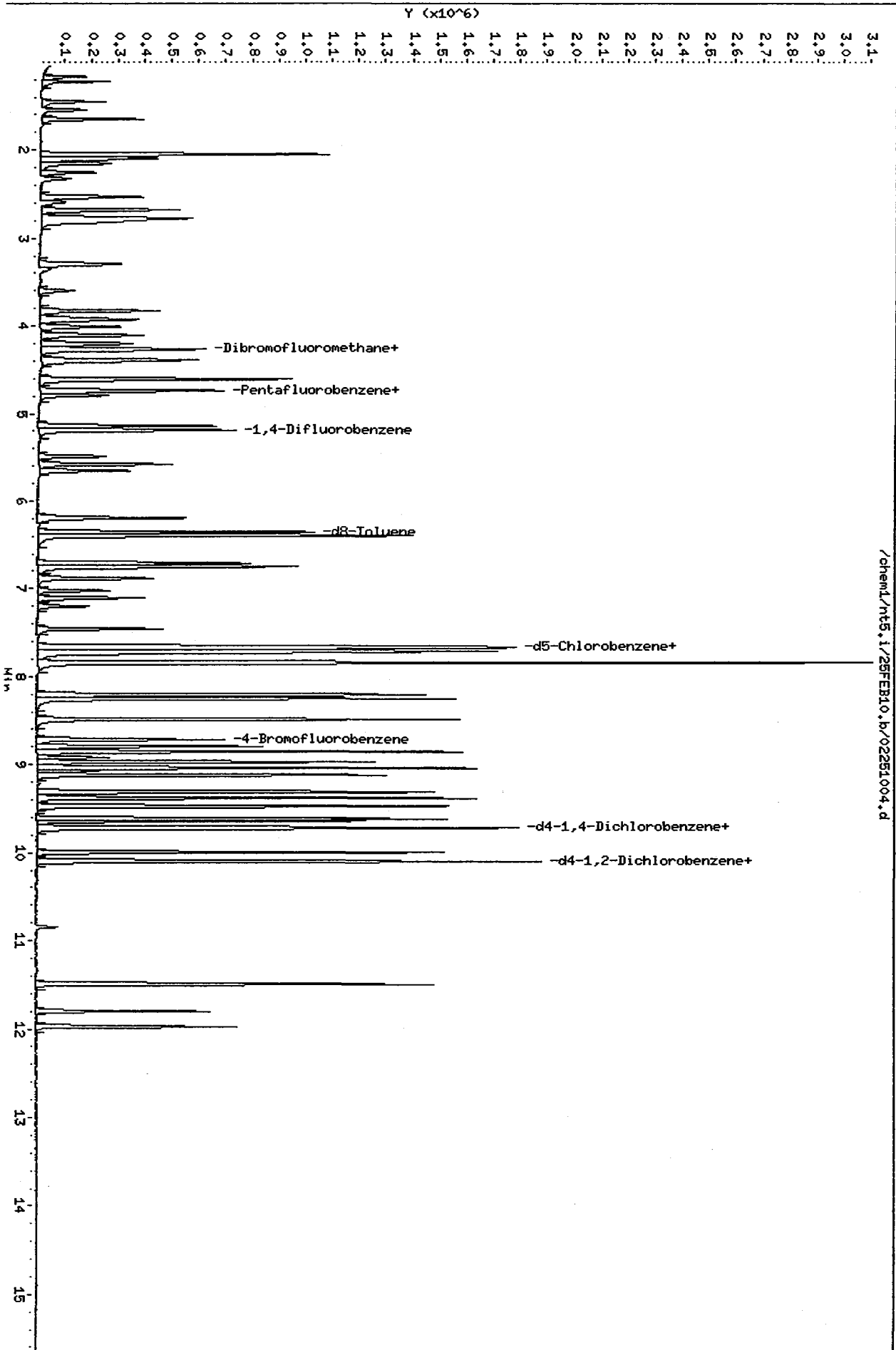
Column phase: RTXVHS

Instrument: nt5.i

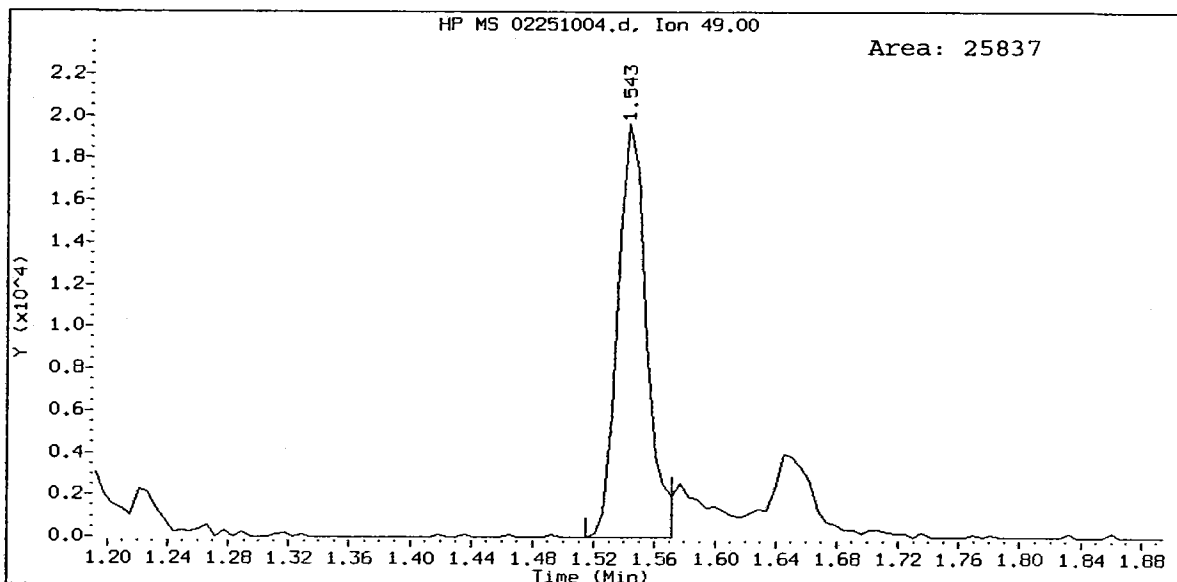
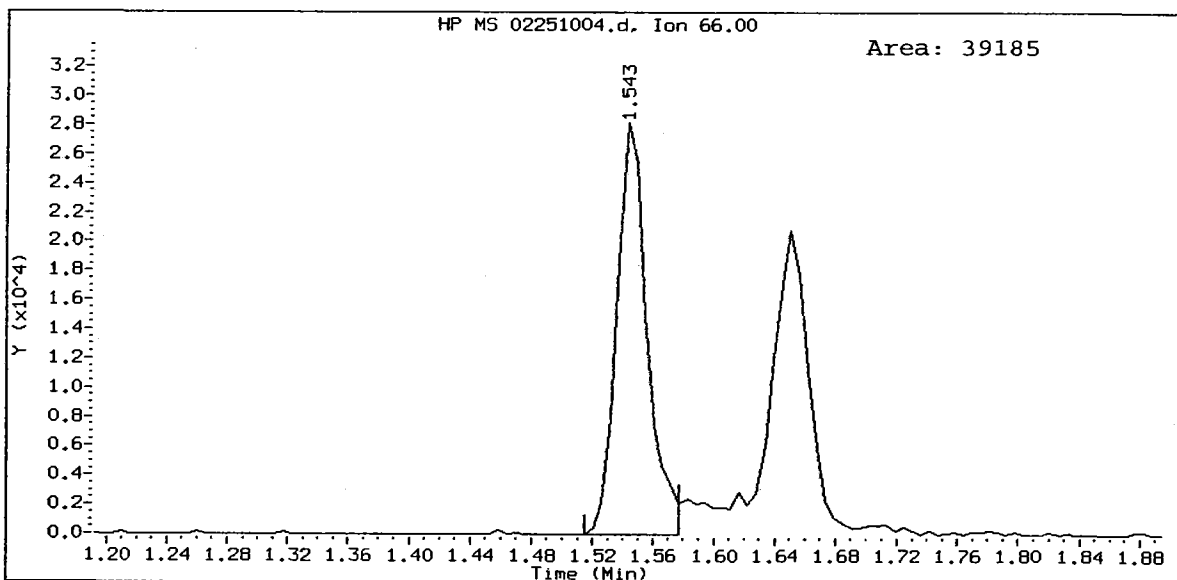
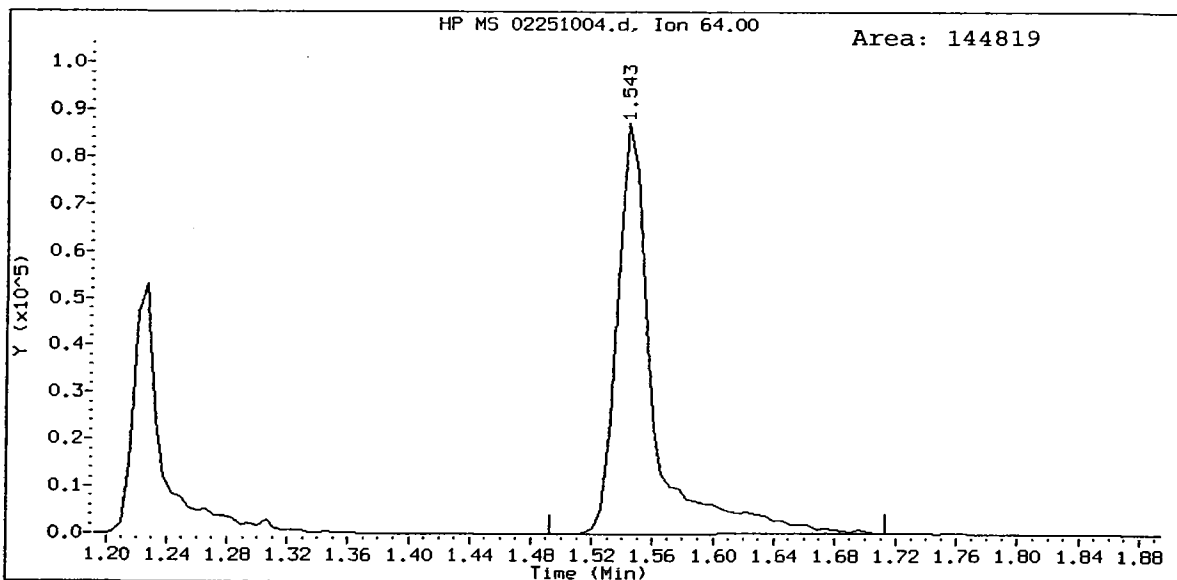
Operator: PC

Column diameter: 0.18

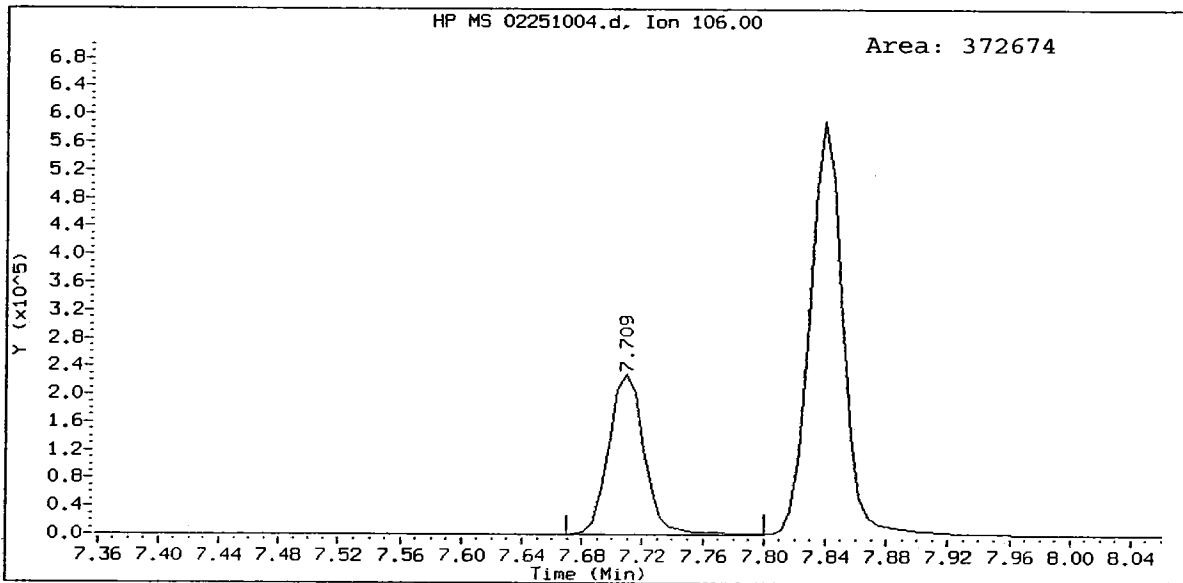
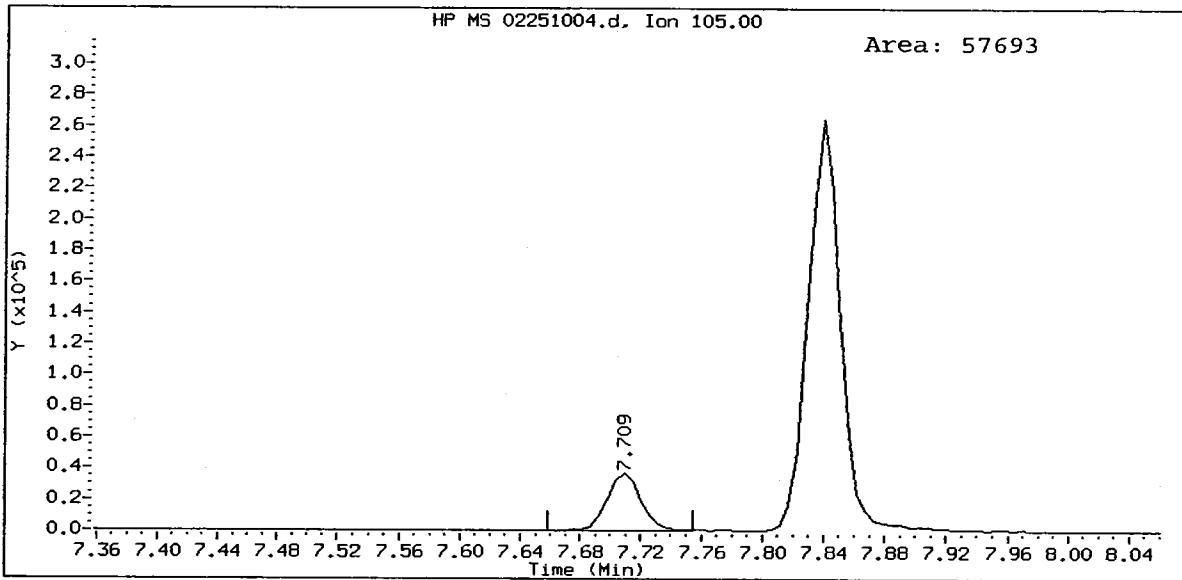
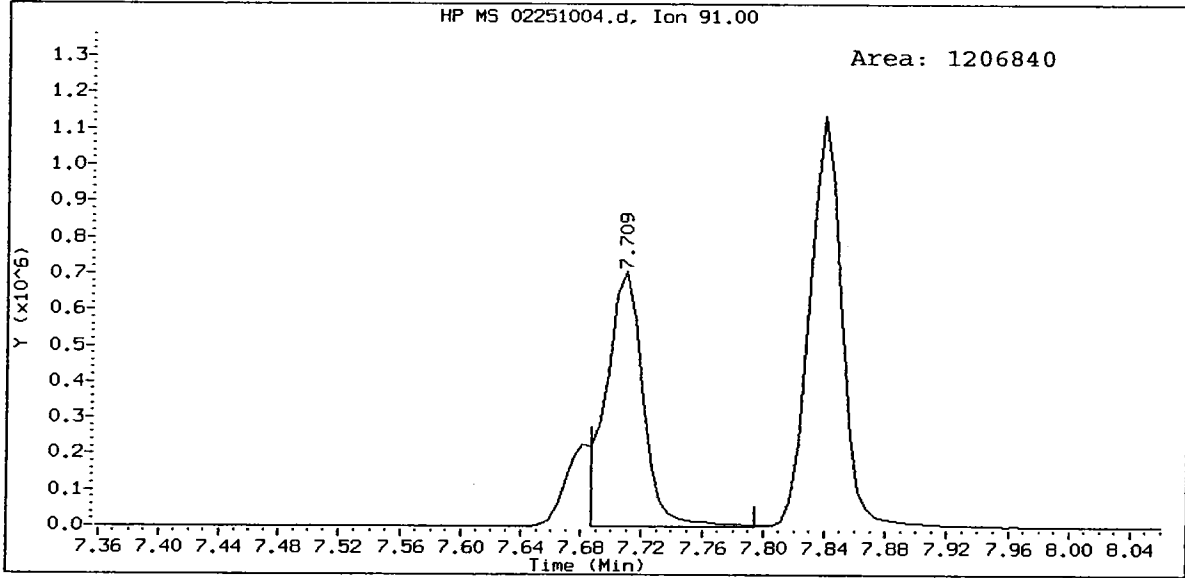
Page 8



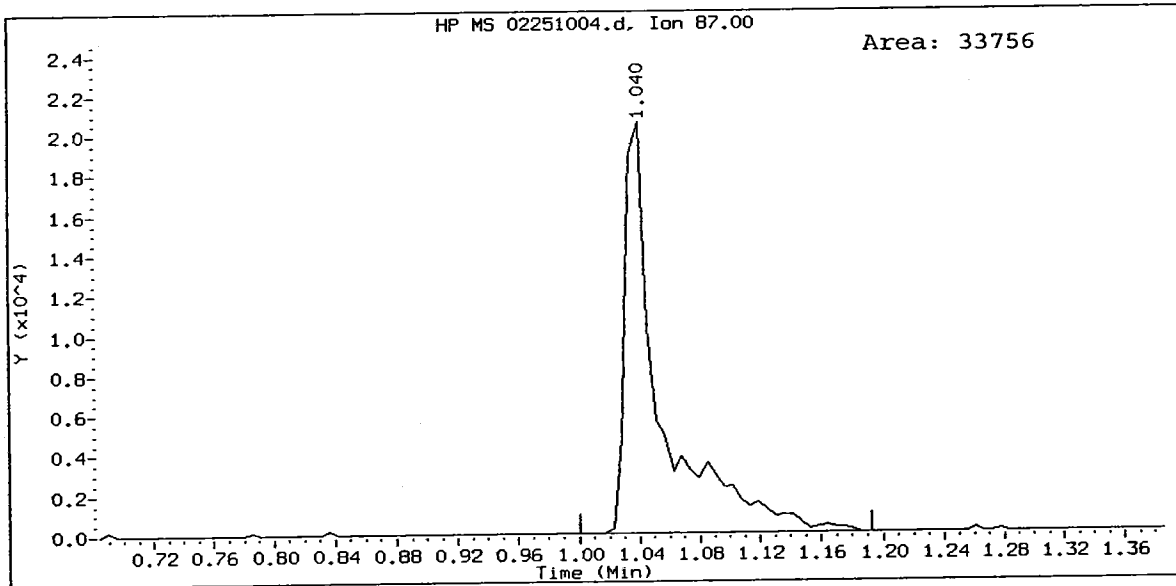
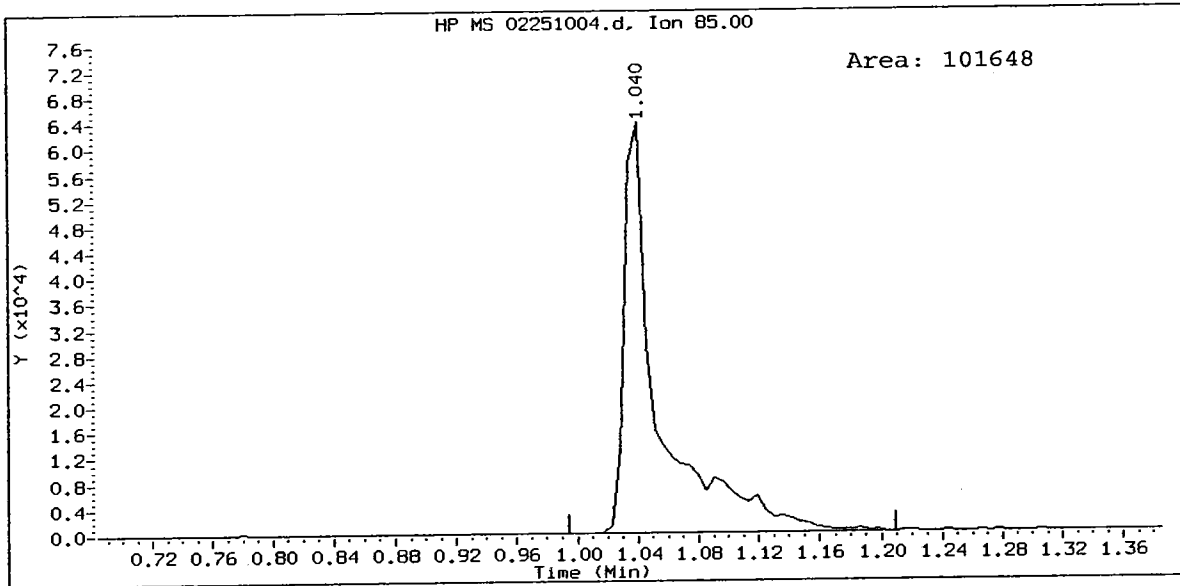
2010 FEB 26 10:51:02



LCSD0225, /chem1/nt5.i/25FEB10.b/02251004.d
Ethyl Benzene Amount: 9.72



LCSD0225, /chem1/nt5.i/25FEB10.b/02251004.d
Dichlorodifluoromethane Amount: 6.96



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MB-030210
METHOD BLANK

Lab Sample ID: MB-030210
LIMS ID: 10-4686
Matrix: Water
Data Release Authorized: *AS*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/02/10 16:59

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 103%

Analytical Resources, Inc.

8260C

AR 3/3/2010

Data file : /chem1/nt10.i/02MAR10.b/mb0302.d
 Lab Smp Id: MB0302 Client Smp ID: MB0302
 Inj Date : 02-MAR-2010 16:59
 Operator : ar Inst ID: nt10.i
 Smp Info : MB0302,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/02MAR10.b/82600122L.m
 Meth Date : 03-Mar-2010 11:45 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85							
2 Chloromethane	50							
3 Vinyl Chloride	62							
4 Bromomethane	94		1.909	1.898	(0.362)	8199	0.46094	0.4609 (M) <i>LR</i> (0.5)
5 Chloroethane	64							
6 Trichlorofluoromethane	101							
8 Acrolein	56							
9 112Trichloro122Trifluoroethane	101							
10 Acetone	43							
11 1,1-Dichloroethene	96							
12 Bromoethane	108							
13 Iodomethane	142		2.768	2.751	(0.525)	5448	0.17518	0.1752 (M) <i>LR</i>
14 Methylene Chloride	84							
15 Acrylonitrile	53							
16 Methyl tert butyl ether	73							
17 Carbon Disulfide	76							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
18 Trans-1,2-Dichloroethene	96				Compound Not Detected.		
20 Vinyl Acetate	43				Compound Not Detected.		
21 1,1-Dichloroethane	63				Compound Not Detected.		
22 2-Butanone	72				Compound Not Detected.		
23 2,2-Dichloropropane	77				Compound Not Detected.		
24 Cis-1,2-Dichloroethene	96				Compound Not Detected.		
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	462398	10.0000	
26 Chloroform	83				Compound Not Detected.		
27 Bromochloromethane	128				Compound Not Detected.		
\$ 28 Dibromofluoromethane	111	4.885	4.885	(0.927)	195355	10.1302	10.130
29 1,1,1-Trichloroethane	97				Compound Not Detected.		
30 1,1-Dichloropropene	75				Compound Not Detected.		
31 Carbon Tetrachloride	117				Compound Not Detected.		
\$ 32 d4-1,2-Dichloroethane	65	5.295	5.295	(1.004)	174184	10.2710	10.271
33 1,2-Dichloroethane	62				Compound Not Detected.		
34 Benzene	78				Compound Not Detected.		
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	765064	10.0000	
36 Trichloroethene	95				Compound Not Detected.		
37 1,2-Dichloropropane	63				Compound Not Detected.		
38 Bromodichloromethane	83				Compound Not Detected.		
39 Dibromomethane	93				Compound Not Detected.		
40 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.		
41 4-Methyl-2-Pentanone	58				Compound Not Detected.		
42 Cis 1,3-dichloropropene	75				Compound Not Detected.		
\$ 43 d8-Toluene	98	6.632	6.633	(1.172)	949311	10.1832	10.183
44 Toluene	92				Compound Not Detected.		
45 Trans 1,3-Dichloropropene	75				Compound Not Detected.		
46 2-Hexanone	43				Compound Not Detected.		
47 1,1,2-Trichloroethane	97				Compound Not Detected.		
48 1,3-Dichloropropane	76				Compound Not Detected.		
49 Tetrachloroethene	166				Compound Not Detected.		
50 Chlorodibromomethane	129				Compound Not Detected.		
51 1,2-Dibromoethane	107				Compound Not Detected.		
* 52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	692991	10.0000	
53 Chlorobenzene	112				Compound Not Detected.		
54 Ethyl Benzene	91				Compound Not Detected.		
55 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
56 m,p-xylene	106				Compound Not Detected.		
58 o-Xylene	106				Compound Not Detected.		
59 Styrene	104				Compound Not Detected.		
60 Isopropyl Benzene	105				Compound Not Detected.		
61 Bromoform	173				Compound Not Detected.		
62 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
\$ 63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	284977	10.1365	10.137
64 1,2,3-Trichloropropane	110				Compound Not Detected.		
65 Trans-1,4-Dichloro 2-Butene	53				Compound Not Detected.		
66 N-Propyl Benzene	91				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
67 Bromobenzene	156						
68 1,3,5-Trimethyl Benzene	105						
69 2-Chloro Toluene	91						
70 4-Chloro Toluene	91						
71 T-Butyl Benzene	119						
72 1,2,4-Trimethylbenzene	105						
73 S-Butyl Benzene	105						
74 4-Isopropyl Toluene	119						
75 1,3-Dichlorobenzene	146						
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.404	(1.000)	246407	10.0000	
77 1,4-Dichlorobenzene	146						
78 N-Butyl Benzene	91						
\$ 79 d4-1,2-Dichlorobenzene	152	9.728	9.728	(1.034)	196075	10.2322	10.232
80 1,2-Dichlorobenzene	146						
81 1,2-Dibromo 3-Chloropropane	75						
82 1,2,4-Trichlorobenzene	180						
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	2156	0.23647	0.2365(Q) <i>2RL (0.5)</i>
84 Naphthalene	128	11.140	11.134	(1.185)	6326	0.30388	0.3039
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	1635	0.15743	0.1574(Q) <i>I</i>

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i	Calibration Date: 02-MAR-2010
Lab File ID: mb0302.d	Calibration Time: 15:30
Lab Smp Id: MB0302	Client Smp ID: MB0302
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: ar	
Method File: /chem1/nt10.i/02MAR10.b/82600122L.m	
Misc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	462398	1.35
35 1,4-Difluorobenze	740651	370326	1481302	765064	3.30
52 d5-Chlorobenzene	686240	343120	1372480	692991	0.98
76 d4-1,4-Dichlorobe	249963	124982	499926	246407	-1.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

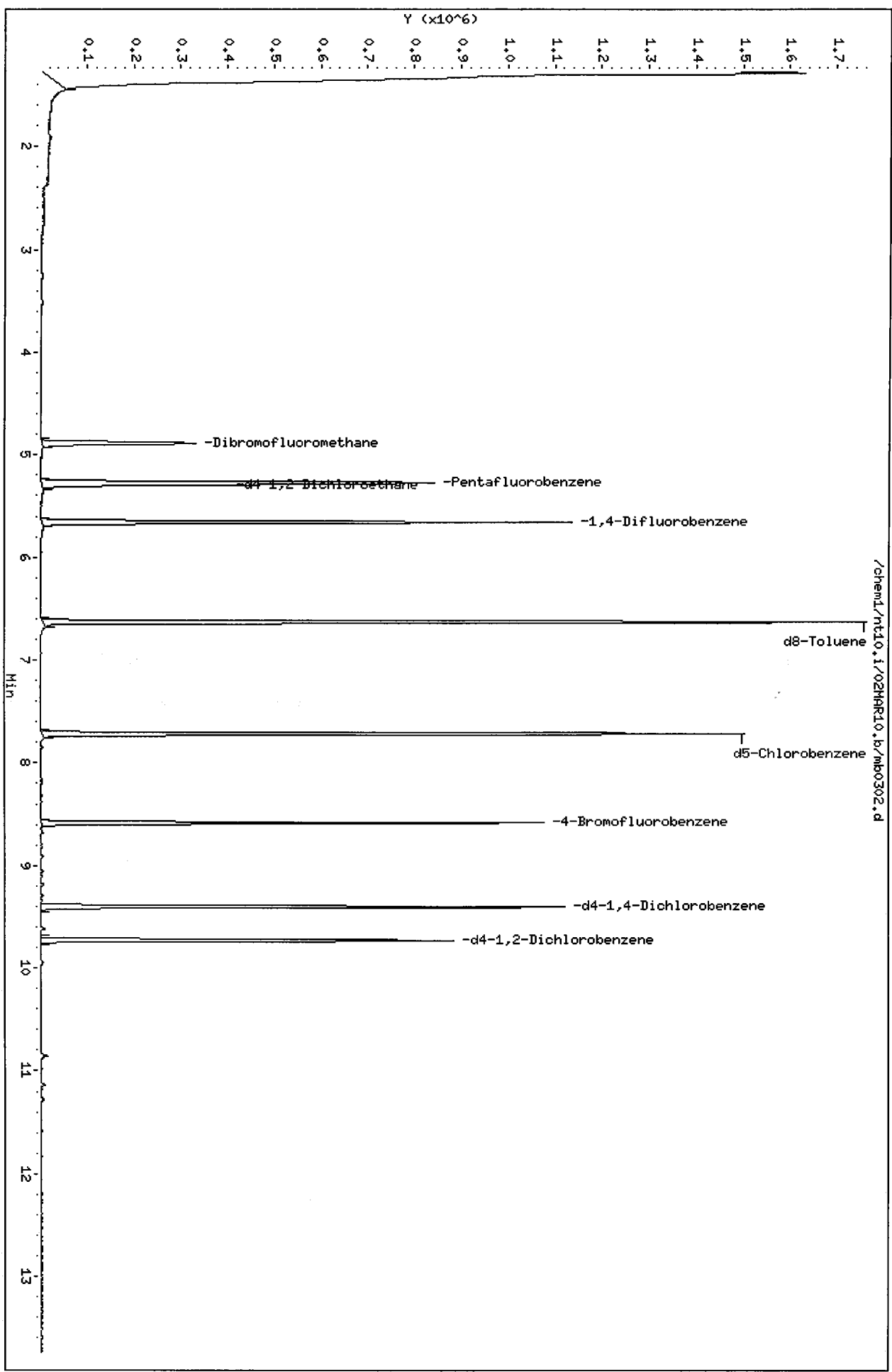
Client Name: Client SDG: 02MAR10
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0302 Client Smp ID: MB0302
Level: LOW Operator: ar
Data Type: MS DATA SampleType: BLANK
SpikeList File: allspike.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
Misc Info: 10-

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 Dibromofluorometha	10.000	10.130	101.30	60-130
\$ 32 d4-1,2-Dichloroeth	10.000	10.271	102.71	80-143
\$ 43 d8-Toluene	10.000	10.183	101.83	80-120
\$ 63 4-Bromofluorobenze	10.000	10.137	101.37	80-120
\$ 79 d4-1,2-Dichloroben	10.000	10.232	102.32	80-120

Data File: /chem1/nt10.i/02MRR10.b/mh0302.d
Date: 02-MAR-2010 16:59
Client ID: MH0302
Sample Info: MH0302,10,10,0

Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A022310GRAB
MATRIX SPIKE

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: *B*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/02/10 20:02

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 110%

Analytical Resources, Inc.

8260C NR 3/3/2010

Data file : /chem1/nt10.i/02MAR10.b/ql34ams.d
 Lab Smp Id: QL34A Client Smp ID: CB31A022310GRAB MS
 Inj Date : 02-MAR-2010 20:02
 Operator : ar Inst ID: nt10.i
 Smp Info : QL34A,10,10,0,MS
 Misc Info : 10-4685
 Comment :
 Method : /chem1/nt10.i/02MAR10.b/82600122L.m
 Meth Date : 03-Mar-2010 11:45 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.385	1.391	(0.263)	190348	18.7072	18.707(R)	
2 Chloromethane	50	1.545	1.550	(0.293)	182755	12.0072	12.007	
3 Vinyl Chloride	62	1.607	1.619	(0.305)	256570	14.1780	14.178(QR)	
4 Bromomethane	94	1.886	1.898	(0.358)	187151	11.9907	11.991(Q)	
5 Chloroethane	64	2.000	2.011	(0.379)	182387	12.8344	12.834(Q)	
6 Trichlorofluoromethane	101	2.125	2.131	(0.403)	337976	13.2870	13.287(R)	
8 Acrolein	56	3.002	3.007	(0.569)	6353	5.43964	5.440(Q)	
9 112Trichloro122Trifluoroethane	101	2.666	2.672	(0.506)	214024	12.6090	12.609(Q)	
10 Acetone	43	3.337	3.343	(0.633)	46296	24.7665	24.766(R)	
11 1,1-Dichloroethene	96	2.609	2.615	(0.495)	243142	12.0431	12.043(QR)	
12 Bromoethane	108	2.882	2.888	(0.547)	142742	11.5850	11.585	
13 Iodomethane	142	2.746	2.751	(0.521)	272142	9.97356	9.974	
14 Methylene Chloride	84	3.252	3.258	(0.617)	200622	11.9291	11.929(Q)	
15 Acrylonitrile	53	4.089	4.094	(0.775)	26055	10.9444	10.944	
16 Methyl tert butyl ether	73	3.554	3.559	(0.674)	629514	21.2057	21.206(M)	
17 Carbon Disulfide	76	2.609	2.620	(0.495)	1137924	17.2131	17.213(R)	

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
18 Trans-1,2-Dichloroethene	96	3.417	3.423	(0.648)	249072	11.7408	11.741 (Q)
20 Vinyl Acetate	43	4.288	4.294	(0.813)	155161	8.26529	8.265
21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	400057	11.5751	11.575
22 2-Butanone	72	4.994	4.994	(0.947)	27937	23.2358	23.236 (QR)
23 2,2-Dichloropropane	77	4.590	4.589	(0.870)	150245	10.9252	10.925 (Q)
24 Cis-1,2-Dichloroethene	96	4.504	4.504	(0.854)	256667	10.8445	10.844 (Q)
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	405694	10.0000	
26 Chloroform	83	4.737	4.743	(0.899)	409629	11.1248	11.125
27 Bromochloromethane	128	4.663	4.669	(0.884)	179561	22.3354	22.335 (Q)
\$ 28 Dibromofluoromethane	111	4.885	4.885	(0.927)	177833	10.5105	10.511
29 1,1,1-Trichloroethane	97	4.885	4.891	(0.927)	340102	11.8747	11.875
30 1,1-Dichloropropene	75	4.988	4.988	(0.881)	370976	11.0663	11.066 (Q)
31 Carbon Tetrachloride	117	4.823	4.828	(0.852)	277937	11.3328	11.333 (Q)
\$ 32 d4-1,2-Dichloroethane	65	5.290	5.295	(1.003)	164079	11.0275	11.027
33 1,2-Dichloroethane	62	5.341	5.346	(0.944)	225492	11.0760	11.076 (Q)
34 Benzene	78	5.181	5.181	(0.916)	1020868	10.7793	10.779
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	675231	10.0000	
36 Trichloroethene	95	5.620	5.620	(0.993)	294540	11.6069	11.607 (Q)
37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	226874	11.0658	11.066 (Q)
38 Bromodichloromethane	83	6.052	6.058	(1.069)	292892	11.2961	11.296
39 Dibromomethane	93	5.927	5.933	(1.047)	91467	11.1637	11.164 (Q)
40 2-Chloroethyl Vinyl Ether	63	6.667	6.468	(1.178)	96869	19.9033	19.903 (QR)
41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	57206	15.8180	15.818 (QR)
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	315645	10.9383	10.938 (Q)
\$ 43 d8-Toluene	98	6.633	6.633	(1.172)	851760	10.3524	10.352
44 Toluene	92	6.667	6.667	(1.178)	693807	10.7406	10.741
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	237703	11.2026	11.203 (Q)
46 2-Hexanone	43	7.526	7.526	(0.975)	62689	11.0189	11.019
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	137632	10.9418	10.942 (Q)
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	249268	10.6672	10.667 (Q)
49 Tetrachloroethene	166	6.929	6.928	(0.898)	286736	10.1165	10.116 (Q)
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	174754	11.1556	11.156 (Q)
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	123085	11.0173	11.017
* 52 d5-Chlorobenzene	117	7.720	7.720	(1.000)	652008	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	724402	10.5711	10.571 (Q)
54 Ethyl Benzene	91	7.748	7.748	(1.004)	1360384	10.4624	10.462 (Q)
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	222413	10.6079	10.608 (Q)
56 m,p-xylene	106	7.850	7.850	(1.017)	1045607	21.3379	21.338 (Q)
58 o-Xylene	106	8.158	8.158	(1.057)	477904	10.7605	10.761 (Q)
59 Styrene	104	8.198	8.198	(1.062)	739809	10.5860	10.586 (Q)
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1284752	8.57204	8.572
61 Bromoform	173	8.215	8.215	(0.874)	84908	9.67384	9.674 (Q)
62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	126369	9.81939	9.819
\$ 63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	289972	10.9625	10.963
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	37082	9.53593	9.536 (Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	25930	10.5348	10.535 (Q)
66 N-Propyl Benzene	91	8.681	8.681	(0.923)	1517024	8.86433	8.864 (Q)

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/L)	FINAL (ug/L)
67 Bromobenzene	156	8.659	8.659	(0.921)	250657	8.73463	8.735(Q)
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	1024294	9.25102	9.251(Q)
69 2-Chloro Toluene	91	8.789	8.795	(0.935)	954974	8.88394	8.884
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	844414	9.06885	9.069(Q)
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	822225	8.78657	8.787(Q)
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1000667	9.55028	9.550
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1246416	9.06010	9.060(Q)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1012127	9.64878	9.649(Q)
75 1,3-Dichlorobenzene	146	9.347	9.347	(0.994)	472934	9.82498	9.825(Q)
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.404	(1.000)	283924	10.0000	
77 1,4-Dichlorobenzene	146	9.415	9.415	(1.001)	457757	9.96643	9.966(Q)
78 N-Butyl Benzene	91	9.615	9.615	(1.022)	891914	9.94899	9.949(Q)
\$ 79 d4-1,2-Dichlorobenzene	152	9.729	9.728	(1.034)	224262	10.1567	10.157
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	363147	10.0286	10.029(Q)
81 1,2-Dibromo 3-Chloropropane	75	10.355	10.354	(1.101)	11498	10.0138	10.014(Q)
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	143420	8.12503	8.125(Q)
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	75583	7.19445	7.194(Q)
84 Naphthalene	128	11.140	11.134	(1.185)	209922	8.75148	8.751
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	104350	8.72013	8.720(Q)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ql34ams.d
 Lab Smp Id: QL34A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-4685

Calibration Date: 02-MAR-2010
 Calibration Time: 15:30
 Client Smp ID: CB31A022310GRAB MS
 Level: LOW
 Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	405694	-11.08
35 1,4-Difluorobenze	740651	370326	1481302	675231	-8.83
52 d5-Chlorobenzene	686240	343120	1372480	652008	-4.99
76 d4-1,4-Dichlorobe	249963	124982	499926	283924	13.59

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
 Sample Matrix: LIQUID
 Lab Smp Id: QL34A
 Level: LOW
 Data Type: MS DATA
 SpikeList File: allspike.spk
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-4685

Client SDG: QL34
 Fraction: VOA
 Client Smp ID: CB31A022310GRAB MS
 Operator: ar
 SampleType: MS
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	18.707	187.07*	59-129
2 Chloromethane	10.000	12.007	120.07	66-123
3 Vinyl Chloride	10.000	14.178	141.78*	68-121
4 Bromomethane	10.000	11.991	119.91	55-148
5 Chloroethane	10.000	12.834	128.34	47-155
6 Trichlorofluoromet	10.000	13.287	132.87*	70-129
8 Acrolein	10.000	5.440	54.40	24-170
9 112Trichloro122Tri	10.000	12.609	126.09	74-127
10 Acetone	10.000	24.766	247.66*	70-130
11 1,1-Dichloroethene	10.000	12.043	120.43*	72-120
12 Bromoethane	10.000	11.585	115.85	73-131
13 Iodomethane	10.000	9.974	99.74	34-183
14 Methylene Chloride	10.000	11.929	119.29	70-124
15 Acrylonitrile	10.000	10.944	109.44	71-135
17 Carbon Disulfide	10.000	17.213	172.13*	66-129
16 Methyl tert butyl	20.000	21.206	106.03	78-120
18 Trans-1,2-Dichloro	10.000	11.741	117.41	76-120
20 Vinyl Acetate	10.000	8.265	82.65	49-134
21 1,1-Dichloroethane	10.000	11.575	115.75	75-120
22 2-Butanone	10.000	23.236	232.36*	78-131
23 2,2-Dichloropropan	10.000	10.925	109.25	68-121
24 Cis-1,2-Dichloroet	10.000	10.844	108.44	80-120
26 Chloroform	10.000	11.125	111.25	78-120
27 Bromochloromethane	20.000	22.335	111.68	79-120
29 1,1,1-Trichloroeth	10.000	11.875	118.75	76-120
30 1,1-Dichloropropen	10.000	11.066	110.66	78-120
31 Carbon Tetrachlori	10.000	11.333	113.33	70-126
33 1,2-Dichloroethane	10.000	11.076	110.76	78-120
34 Benzene	10.000	10.779	107.79	79-120
36 Trichloroethene	10.000	11.607	116.07	78-120
37 1,2-Dichloropropan	10.000	11.066	110.66	80-120
38 Bromodichlorometha	10.000	11.296	112.96	78-120
39 Dibromomethane	10.000	11.164	111.64	80-120

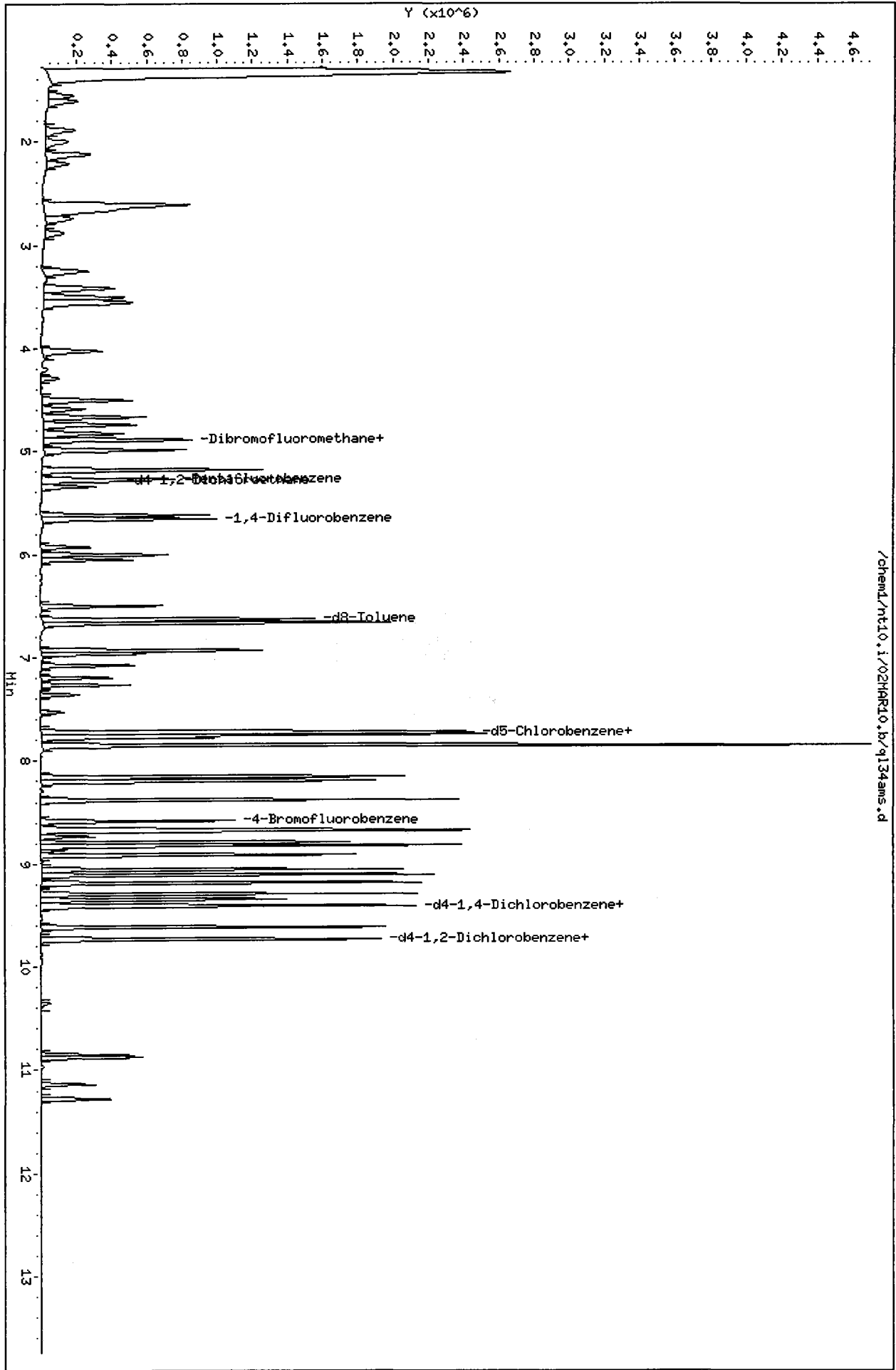
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	19.903	199.03*	68-134
41 4-Methyl-2-Pentano	10.000	15.818	158.18*	73-131
42 Cis 1,3-dichloropr	10.000	10.938	109.38	78-120
44 Toluene	10.000	10.741	107.41	79-120
45 Trans 1,3-Dichloro	10.000	11.203	112.03	75-120
46 2-Hexanone	10.000	11.019	110.19	75-130
47 1,1,2-Trichloroeth	10.000	10.942	109.42	79-120
48 1,3-Dichloropropan	10.000	10.667	106.67	78-120
49 Tetrachloroethene	10.000	10.116	101.16	72-120
50 Chlorodibromometha	10.000	11.156	111.56	78-120
51 1,2-Dibromoethane	10.000	11.017	110.17	75-120
53 Chlorobenzene	10.000	10.571	105.71	79-120
55 1,1,1,2-Tetrachlor	10.000	10.608	106.08	75-120
54 Ethyl Benzene	10.000	10.462	104.62	78-120
56 m,p-xylene	20.000	21.338	106.69	65-129
58 o-Xylene	10.000	10.761	107.61	76-120
59 Styrene	10.000	10.586	105.86	74-121
60 Isopropyl Benzene	10.000	8.572	85.72	74-120
61 Bromoform	10.000	9.674	96.74	71-120
62 1,1,2,2-Tetrachlor	10.000	9.819	98.19	70-120
64 1,2,3-Trichloropro	10.000	9.536	95.36	73-120
65 Trans-1,4-Dichloro	10.000	10.535	105.35	65-135
66 N-Propyl Benzene	10.000	8.864	88.64	76-121
67 Bromobenzene	10.000	8.735	87.35	72-120
68 1,3,5-Trimethyl Be	10.000	9.251	92.51	74-123
69 2-Chloro Toluene	10.000	8.884	88.84	74-120
70 4-Chloro Toluene	10.000	9.069	90.69	75-120
71 T-Butyl Benzene	10.000	8.787	87.87	73-121
72 1,2,4-Trimethylben	10.000	9.550	95.50	73-124
73 S-Butyl Benzene	10.000	9.060	90.60	75-123
74 4-Isopropyl Toluen	10.000	9.649	96.49	71-125
75 1,3-Dichlorobenzen	10.000	9.825	98.25	72-120
77 1,4-Dichlorobenzen	10.000	9.966	99.66	76-120
78 N-Butyl Benzene	10.000	9.949	99.49	72-124
80 1,2-Dichlorobenzen	10.000	10.029	100.29	75-120
81 1,2-Dibromo 3-Chlo	10.000	10.014	100.14	67-121
82 1,2,4-Trichloroben	10.000	8.125	81.25	71-120
83 Hexachloro 1,3-But	10.000	7.194	71.94	67-124
84 Naphthalene	10.000	8.751	87.51	71-125
85 1,2,3-Trichloroben	10.000	8.720	87.20	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 Dibromofluorometha	10.000	10.511	105.11	60-130

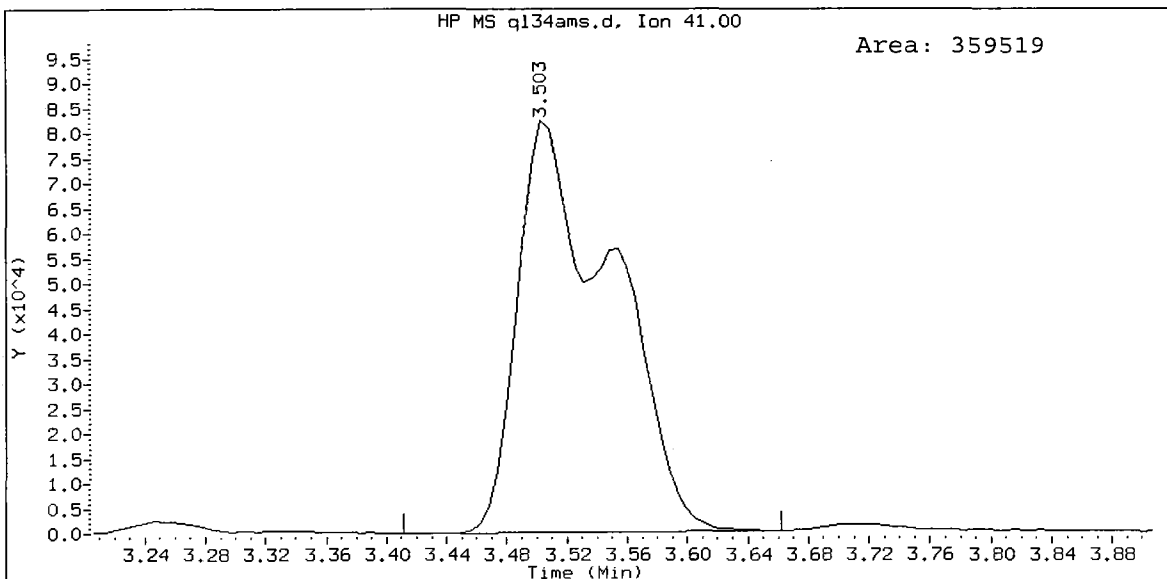
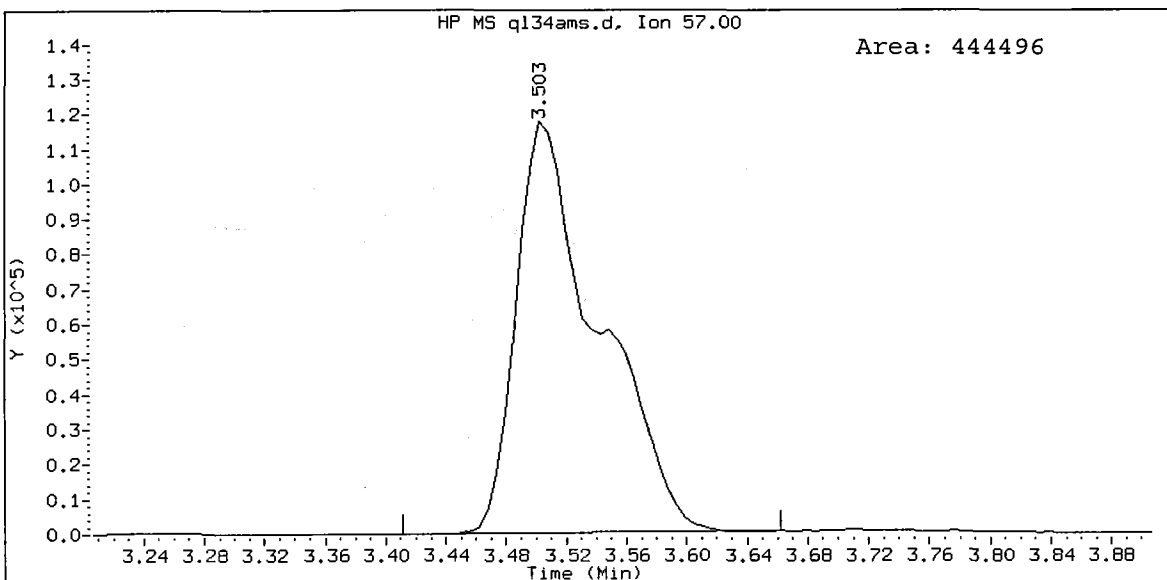
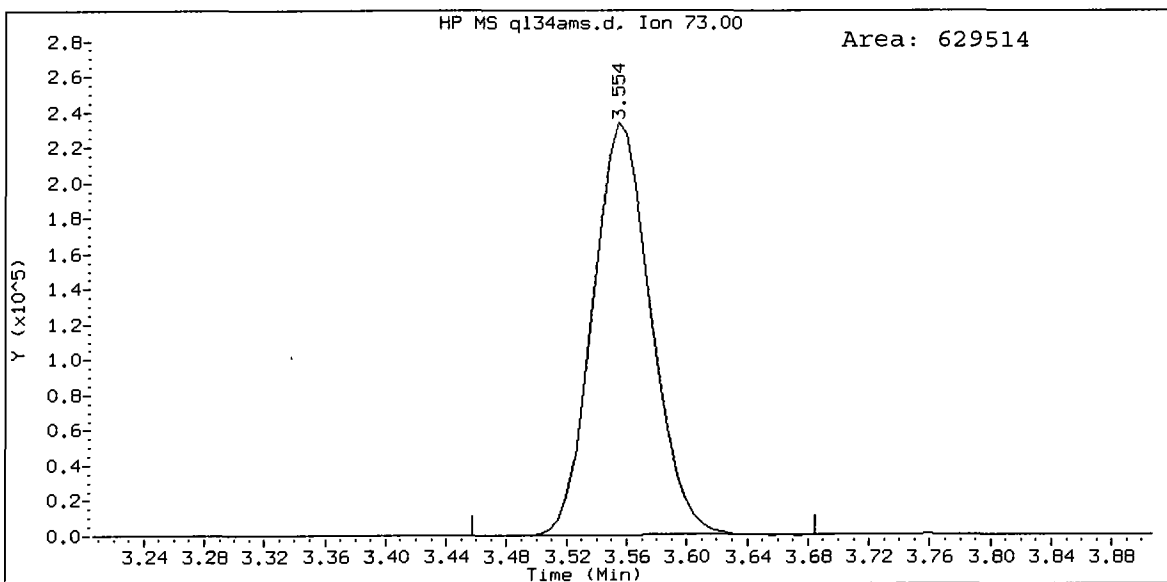
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 d4-1,2-Dichloroeth	10.000	11.027	110.27	80-143
\$ 43 d8-Toluene	10.000	10.352	103.52	80-120
\$ 63 4-Bromofluorobenze	10.000	10.963	109.63	80-120
\$ 79 d4-1,2-Dichloroben	10.000	10.157	101.57	80-120

Data File: /chem1/nt10.i/02HRR10.b/q134ans.d
Date : 02-MAR-2010 20:02
Client ID: CB314022310GRAB MS
Sample Info: QL34A,10,10,0,MS
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



QL34A, /chem1/nt10.i/02MAR10.b/ql34ams.d
Methyl tert butyl ether Amount: 21.21



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: CB31A022310GRAB
MATRIX SPIKE DUP

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: *BB*
Reported: 03/05/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT10/AAR
Date Analyzed: 03/02/10 20:32

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.2	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 111%

AR 3/3/2010

Analytical Resources, Inc.

8260C

Data file : /chem1/nt10.i/02MAR10.b/ql34amsd.d
 Lab Smp Id: QL34A Client Smp ID: CB31A022310GRAB MSD
 Inj Date : 02-MAR-2010 20:32
 Operator : ar Inst ID: nt10.i
 Smp Info : QL34A,10,10,0,MSD
 Misc Info : 10-4685
 Comment :
 Method : /chem1/nt10.i/02MAR10.b/82600122L.m
 Meth Date : 03-Mar-2010 11:45 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85		1.391	1.391	(0.264)	183000	16.5045	16.504 (R)
2 Chloromethane	50		1.550	1.550	(0.294)	191280	11.5328	11.533
3 Vinyl Chloride	62		1.619	1.619	(0.307)	249851	12.6701	12.670 (QR)
4 Bromomethane	94		1.898	1.898	(0.360)	187538	11.0264	11.026
5 Chloroethane	64		2.011	2.011	(0.381)	186332	12.0326	12.033 (Q)
6 Trichlorofluoromethane	101		2.131	2.131	(0.404)	345851	12.4773	12.477
8 Acrolein	56		2.996	3.007	(0.568)	3640	2.86043	2.860
9 112Trichloro122Trifluoroethane	101		2.672	2.672	(0.507)	210891	11.4017	11.402 (Q)
10 Acetone	43		3.337	3.343	(0.633)	48504	23.8121	23.812 (R)
11 1,1-Dichloroethene	96		2.615	2.615	(0.496)	259862	11.8117	11.812 (Q)
12 Bromoethane	108		2.888	2.888	(0.548)	154154	11.4813	11.481
13 Iodomethane	142		2.751	2.751	(0.522)	285672	9.60756	9.608
14 Methylene Chloride	84		3.258	3.258	(0.618)	212972	11.6210	11.621 (Q)
15 Acrylonitrile	53		4.094	4.094	(0.777)	27140	10.4617	10.462
16 Methyl tert butyl ether	73		3.559	3.559	(0.675)	704342	21.7732	21.773 (Q)
17 Carbon Disulfide	76		2.620	2.620	(0.497)	850415	11.8051	11.805

Compounds	QUANT SIG			CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
18 Trans-1,2-Dichloroethene	96	3.417	3.423	(0.648)	265985	11.5060	11.506(Q)
20 Vinyl Acetate	43	4.288	4.294	(0.813)	172905	8.45230	8.452
21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	429883	11.4142	11.414
22 2-Butanone	72	4.993	4.994	(0.947)	30405	23.2069	23.207(QR)
23 2,2-Dichloropropane	77	4.589	4.589	(0.870)	160531	10.7123	10.712
24 Cis-1,2-Dichloroethene	96	4.504	4.504	(0.854)	277599	10.7633	10.763(Q)
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	442086	10.0000	
26 Chloroform	83	4.743	4.743	(0.900)	451092	11.2424	11.242
27 Bromochloromethane	128	4.669	4.669	(0.886)	196049	22.3790	22.379(Q)
\$ 28 Dibromofluoromethane	111	4.885	4.885	(0.927)	193841	10.5135	10.514
29 1,1,1-Trichloroethane	97	4.891	4.891	(0.928)	357154	11.4436	11.444
30 1,1-Dichloropropene	75	4.988	4.988	(0.881)	410592	11.1749	11.175(Q)
31 Carbon Tetrachloride	117	4.828	4.828	(0.853)	297040	11.0505	11.051(Q)
\$ 32 d4-1,2-Dichloroethane	65	5.295	5.295	(1.004)	180016	11.1026	11.103
33 1,2-Dichloroethane	62	5.346	5.346	(0.945)	247201	11.0784	11.078(Q)
34 Benzene	78	5.181	5.181	(0.916)	1119765	10.7876	10.788
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	740077	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.993)	315455	11.3419	11.342(Q)
37 1,2-Dichloropropane	63	6.006	6.007	(1.061)	247492	11.0138	11.014(Q)
38 Bromodichloromethane	83	6.052	6.058	(1.069)	316685	11.1436	11.144
39 Dibromomethane	93	5.932	5.933	(1.048)	100330	11.1725	11.173(Q)
40 2-Chloroethyl Vinyl Ether	63	6.667	6.468	(1.178)	108940	20.4224	20.422(QR)
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.227)	66097	16.6752	16.675(QR)
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	355445	11.2382	11.238(Q)
\$ 43 d8-Toluene	98	6.632	6.633	(1.172)	918882	10.1896	10.190
44 Toluene	92	6.667	6.667	(1.178)	764332	10.7956	10.796
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	268165	11.5309	11.531(Q)
46 2-Hexanone	43	7.526	7.526	(0.975)	68411	10.9869	10.987
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	151656	11.0003	11.000(Q)
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	279575	10.9316	10.932(Q)
49 Tetrachloroethene	166	6.928	6.928	(0.898)	315669	10.1760	10.176(Q)
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	195168	11.3834	11.383(Q)
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	137537	11.2323	11.232
* 52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	713599	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	792056	10.5607	10.561(Q)
54 Ethyl Benzene	91	7.748	7.748	(1.004)	1476482	10.3752	10.375(Q)
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	235508	10.2630	10.263(Q)
56 m,p-xylene	106	7.850	7.850	(1.017)	1136440	21.1898	21.190(Q)
58 o-Xylene	106	8.158	8.158	(1.057)	513066	10.5552	10.555(Q)
59 Styrene	104	8.197	8.198	(1.062)	801393	10.4775	10.477(Q)
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1350093	8.98117	8.981
61 Bromoform	173	8.215	8.215	(0.874)	93222	10.5895	10.589(Q)
62 1,1,2,2-Tetrachloroethane	83	8.732	8.733	(0.929)	126250	9.78099	9.781
\$ 63 4-Bromofluorobenzene	95	8.585	8.585	(1.112)	308510	10.6567	10.657
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	38842	9.95880	9.959(Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	27254	11.0217	11.022(Q)
66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1597530	9.30693	9.307(Q)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
-----	=====	==	=====	=====	=====	=====	=====
67 Bromobenzene	156	8.658	8.659	(0.921)	270277	9.39030	9.390 (Q)
68 1,3,5-Trimethyl Benzene	105	8.824	8.824	(0.938)	1038993	9.35582	9.356 (Q)
69 2-Chloro Toluene	91	8.795	8.795	(0.935)	995715	9.23535	9.235
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	895174	9.58536	9.585 (Q)
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	825298	8.79314	8.793 (Q)
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1014017	9.64887	9.649
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1233893	8.94236	8.942 (Q)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	985999	9.37170	9.372 (Q)
75 1,3-Dichlorobenzene	146	9.347	9.347	(0.994)	483547	10.0155	10.016 (Q)
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.404	(1.000)	284772	10.0000	
77 1,4-Dichlorobenzene	146	9.415	9.415	(1.001)	465660	10.1083	10.108 (Q)
78 N-Butyl Benzene	91	9.615	9.615	(1.022)	844008	9.38657	9.387 (Q)
\$ 79 d4-1,2-Dichlorobenzene	152	9.734	9.728	(1.035)	221071	9.98240	9.982
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	359332	9.89373	9.894 (Q)
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.354	(1.101)	12399	10.7668	10.767 (Q)
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	153984	8.69756	8.698 (Q)
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	71766	6.81084	6.811 (Q)
84 Naphthalene	128	11.140	11.134	(1.185)	235631	9.79403	9.794
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	114030	9.50067	9.501 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: ql34amsd.d
 Lab Smp Id: QL34A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-4685

Calibration Date: 02-MAR-2010
 Calibration Time: 15:30
 Client Smp ID: CB31A022310GRAB MSD
 Level: LOW
 Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	442086	-3.10
35 1,4-Difluorobenze	740651	370326	1481302	740077	-0.08
52 d5-Chlorobenzene	686240	343120	1372480	713599	3.99
76 d4-1,4-Dichlorobe	249963	124982	499926	284772	13.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
 Sample Matrix: LIQUID
 Lab Smp Id: QL34A
 Level: LOW
 Data Type: MS DATA
 SpikeList File: allspike.spk
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-4685

Client SDG: QL34
 Fraction: VOA
 Client Smp ID: CB31A022310GRAB MSD
 Operator: ar
 SampleType: MSD
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	16.504	165.04*	59-129
2 Chloromethane	10.000	11.533	115.33	66-123
3 Vinyl Chloride	10.000	12.670	126.70*	68-121
4 Bromomethane	10.000	11.026	110.26	55-148
5 Chloroethane	10.000	12.033	120.33	47-155
6 Trichlorofluoromet	10.000	12.477	124.77	70-129
8 Acrolein	10.000	2.860	28.60	24-170
9 112Trichloro122Tri	10.000	11.402	114.02	74-127
10 Acetone	10.000	23.812	238.12*	70-130
11 1,1-Dichloroethene	10.000	11.812	118.12	72-120
12 Bromoethane	10.000	11.481	114.81	73-131
13 Iodomethane	10.000	9.608	96.08	34-183
14 Methylene Chloride	10.000	11.621	116.21	70-124
15 Acrylonitrile	10.000	10.462	104.62	71-135
17 Carbon Disulfide	10.000	11.805	118.05	66-129
16 Methyl tert butyl	20.000	21.773	108.87	78-120
18 Trans-1,2-Dichloro	10.000	11.506	115.06	76-120
20 Vinyl Acetate	10.000	8.452	84.52	49-134
21 1,1-Dichloroethane	10.000	11.414	114.14	75-120
22 2-Butanone	10.000	23.207	232.07*	78-131
23 2,2-Dichloropropan	10.000	10.712	107.12	68-121
24 Cis-1,2-Dichloroet	10.000	10.763	107.63	80-120
26 Chloroform	10.000	11.242	112.42	78-120
27 Bromochloromethane	20.000	22.379	111.89	79-120
29 1,1,1-Trichloroeth	10.000	11.444	114.44	76-120
30 1,1-Dichloropropen	10.000	11.175	111.75	78-120
31 Carbon Tetrachlori	10.000	11.051	110.51	70-126
33 1,2-Dichloroethane	10.000	11.078	110.78	78-120
34 Benzene	10.000	10.788	107.88	79-120
36 Trichloroethene	10.000	11.342	113.42	78-120
37 1,2-Dichloropropan	10.000	11.014	110.14	80-120
38 Bromodichlorometha	10.000	11.144	111.44	78-120
39 Dibromomethane	10.000	11.173	111.73	80-120

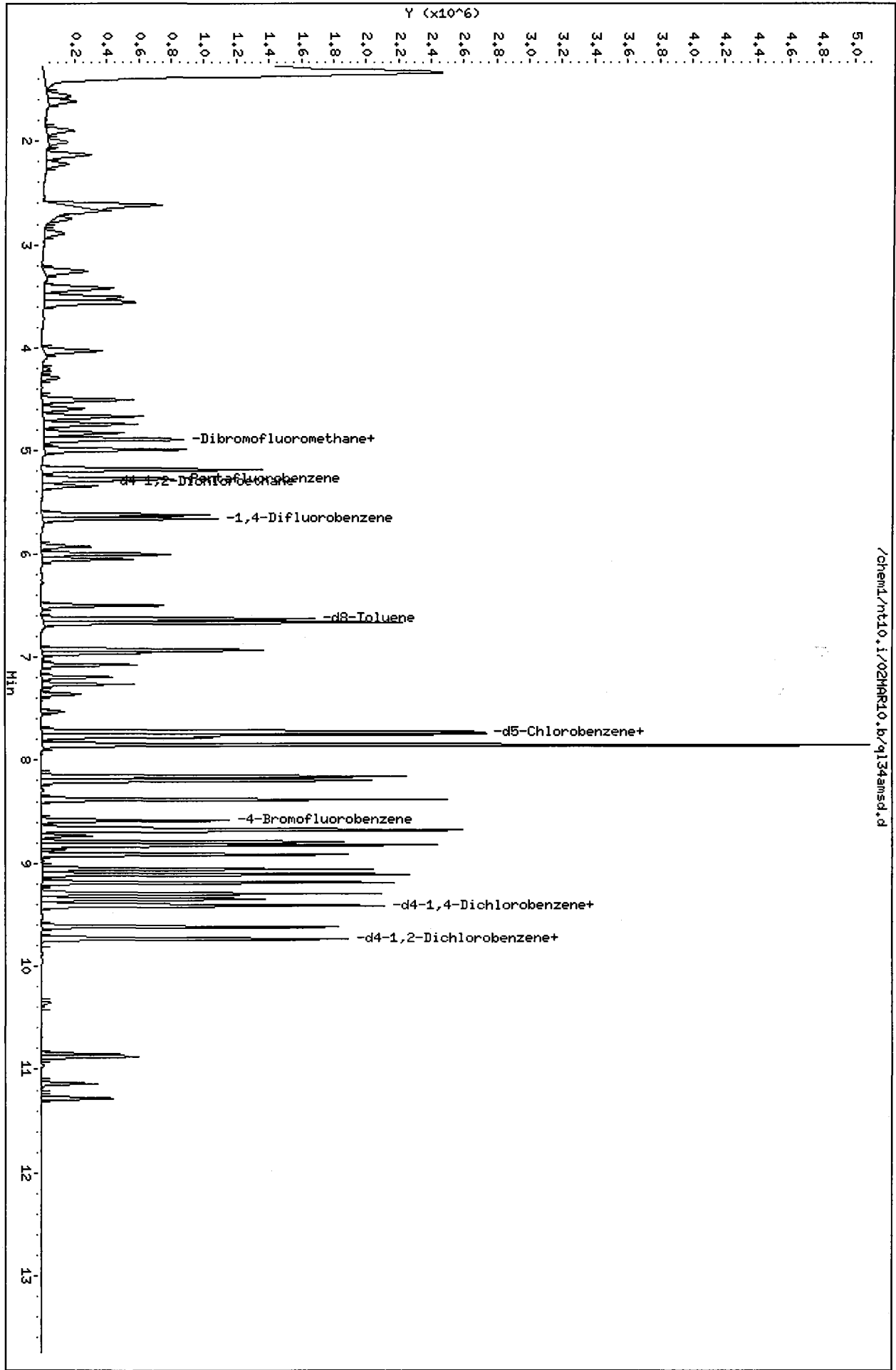
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	20.422	204.22*	68-134
41 4-Methyl-2-Pentano	10.000	16.675	166.75*	73-131
42 Cis 1,3-dichloropr	10.000	11.238	112.38	78-120
44 Toluene	10.000	10.796	107.96	79-120
45 Trans 1,3-Dichloro	10.000	11.531	115.31	75-120
46 2-Hexanone	10.000	10.987	109.87	75-130
47 1,1,2-Trichloroeth	10.000	11.000	110.00	79-120
48 1,3-Dichloropropan	10.000	10.932	109.32	78-120
49 Tetrachloroethene	10.000	10.176	101.76	72-120
50 Chlorodibromometha	10.000	11.383	113.83	78-120
51 1,2-Dibromoethane	10.000	11.232	112.32	75-120
53 Chlorobenzene	10.000	10.561	105.61	79-120
55 1,1,1,2-Tetrachlor	10.000	10.263	102.63	75-120
54 Ethyl Benzene	10.000	10.375	103.75	78-120
56 m,p-xylene	20.000	21.190	105.95	65-129
58 o-Xylene	10.000	10.555	105.55	76-120
59 Styrene	10.000	10.477	104.77	74-121
60 Isopropyl Benzene	10.000	8.981	89.81	74-120
61 Bromoform	10.000	10.589	105.89	71-120
62 1,1,2,2-Tetrachlor	10.000	9.781	97.81	70-120
64 1,2,3-Trichloropro	10.000	9.959	99.59	73-120
65 Trans-1,4-Dichloro	10.000	11.022	110.22	65-135
66 N-Propyl Benzene	10.000	9.307	93.07	76-121
67 Bromobenzene	10.000	9.390	93.90	72-120
68 1,3,5-Trimethyl Be	10.000	9.356	93.56	74-123
69 2-Chloro Toluene	10.000	9.235	92.35	74-120
70 4-Chloro Toluene	10.000	9.585	95.85	75-120
71 T-Butyl Benzene	10.000	8.793	87.93	73-121
72 1,2,4-Trimethylben	10.000	9.649	96.49	73-124
73 S-Butyl Benzene	10.000	8.942	89.42	75-123
74 4-Isopropyl Toluen	10.000	9.372	93.72	71-125
75 1,3-Dichlorobenzen	10.000	10.016	100.16	72-120
77 1,4-Dichlorobenzen	10.000	10.108	101.08	76-120
78 N-Butyl Benzene	10.000	9.387	93.87	72-124
80 1,2-Dichlorobenzen	10.000	9.894	98.94	75-120
81 1,2-Dibromo 3-Chlo	10.000	10.767	107.67	67-121
82 1,2,4-Trichloroben	10.000	8.698	86.98	71-120
83 Hexachloro 1,3-But	10.000	6.811	68.11	67-124
84 Naphthalene	10.000	9.794	97.94	71-125
85 1,2,3-Trichloroben	10.000	9.501	95.01	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 Dibromofluorometha	10.000	10.514	105.14	60-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 d4-1,2-Dichloroeth	10.000	11.103	111.03	80-143
\$ 43 d8-Toluene	10.000	10.190	101.90	80-120
\$ 63 4-Bromofluorobenze	10.000	10.657	106.57	80-120
\$ 79 d4-1,2-Dichloroben	10.000	9.982	99.82	80-120

Data File: /chem1/nt10.i/02MR10.b/q134amsd.d
Date : 02-MAR-2010 20:32
Client ID: CB314022310GRAB HSD
Sample Info: QL34A,10,10,0,HSD
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18



41158011

Analytical Resources, Inc.

8260C

AR 3/3/2010

Data file : /chem1/nt10.i/02MAR10.b/lcs0302a.d
 Lab Smp Id: LCS0302 Client Smp ID: LCS0302
 Inj Date : 02-MAR-2010 16:00
 Operator : ar Inst ID: nt10.i
 Smp Info : LCS0302,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/02MAR10.b/82600122L.m
 Meth Date : 03-Mar-2010 11:45 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85			1.391	1.391	(0.264)	185608	16.3434	16.343 (R)
2 Chloromethane	50			1.550	1.550	(0.294)	181700	10.6959	10.696
3 Vinyl Chloride	62			1.613	1.619	(0.306)	248892	12.3227	12.323 (QR)
4 Bromomethane	94			1.892	1.898	(0.359)	180620	10.3682	10.368
5 Chloroethane	64			2.006	2.011	(0.380)	184973	11.6621	11.662 (Q)
6 Trichlorofluoromethane	101			2.131	2.131	(0.404)	342989	12.0812	12.081
8 Acrolein	56			2.996	3.007	(0.568)	5024	3.85415	3.854 (Q)
9 112Trichloro122Trifluoroethane	101			2.677	2.672	(0.508)	217475	11.4793	11.479 (Q)
10 Acetone	43			3.337	3.343	(0.633)	19759	9.47050	9.471
11 1,1-Dichloroethene	96			2.615	2.615	(0.496)	259680	11.5241	11.524 (Q)
12 Bromoethane	108			2.888	2.888	(0.548)	153584	11.1680	11.168
13 Iodomethane	142			2.751	2.751	(0.522)	285104	9.36149	9.361
14 Methylene Chloride	84			3.258	3.258	(0.618)	211593	11.2725	11.272 (Q)
15 Acrylonitrile	53			4.094	4.094	(0.777)	26306	9.90022	9.900
16 Methyl tert butyl ether	73			3.559	3.559	(0.675)	720284	21.7389	21.739 (M)
17 Carbon Disulfide	76			2.620	2.620	(0.497)	798468	10.8216	10.822

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
18 Trans-1,2-Dichloroethene	96	3.417	3.423	(0.648)	263966	11.1483	11.148(Q)
20 Vinyl Acetate	43	4.288	4.294	(0.813)	173708	8.29054	8.291
21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	432223	11.2047	11.205
22 2-Butanone	72	4.994	4.994	(0.947)	28233	21.0389	21.039(R)
23 2,2-Dichloropropane	77	4.589	4.589	(0.870)	170391	11.1011	11.101(Q)
24 Cis-1,2-Dichloroethene	96	4.504	4.504	(0.854)	273482	10.3527	10.353(Q)
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	452805	10.0000	
26 Chloroform	83	4.743	4.743	(0.900)	444847	10.8243	10.824
27 Bromochloromethane	128	4.669	4.669	(0.886)	189673	21.1386	21.139(Q)
\$ 28 Dibromofluoromethane	111	4.885	4.885	(0.927)	192721	10.2054	10.205
29 1,1,1-Trichloroethane	97	4.891	4.891	(0.928)	357981	11.1985	11.199
30 1,1-Dichloropropene	75	4.988	4.988	(0.881)	402285	10.8876	10.888(Q)
31 Carbon Tetrachloride	117	4.829	4.828	(0.853)	296007	10.9505	10.951(Q)
\$ 32 d4-1,2-Dichloroethane	65	5.295	5.295	(1.004)	174380	10.5004	10.500
33 1,2-Dichloroethane	62	5.346	5.346	(0.945)	240964	10.7385	10.738(Q)
34 Benzene	78	5.181	5.181	(0.916)	1135254	10.8757	10.876
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	744237	10.0000	
36 Trichloroethene	95	5.620	5.620	(0.993)	321007	11.4769	11.477(Q)
37 1,2-Dichloropropane	63	6.007	6.007	(1.061)	242794	10.7443	10.744(Q)
38 Bromodichloromethane	83	6.052	6.058	(1.069)	310196	10.8542	10.854
39 Dibromomethane	93	5.927	5.933	(1.047)	96327	10.6668	10.667(Q)
40 2-Chloroethyl Vinyl Ether	63	6.468	6.468	(1.143)	69311	12.9206	12.921(Q)
41 4-Methyl-2-Pentanone	58	6.946	6.946	(1.227)	36080	9.05144	9.051(Q)
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	350520	11.0206	11.021(Q)
\$ 43 d8-Toluene	98	6.633	6.633	(1.172)	943123	10.4000	10.400
44 Toluene	92	6.667	6.667	(1.178)	767690	10.7824	10.782
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	261301	11.1729	11.173(Q)
46 2-Hexanone	43	7.526	7.526	(0.976)	57560	9.28751	9.288
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	146054	10.5347	10.535(Q)
48 1,3-Dichloropropane	76	7.264	7.264	(0.942)	269459	10.5854	10.585(Q)
49 Tetrachloroethene	166	6.928	6.928	(0.898)	325134	10.5303	10.530(Q)
50 Chlorodibromomethane	129	7.196	7.196	(0.933)	185027	10.8425	10.843(Q)
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	132770	10.7823	10.782
* 52 d5-Chlorobenzene	117	7.714	7.720	(1.000)	710268	10.0000	
53 Chlorobenzene	112	7.725	7.731	(1.001)	793476	10.6293	10.629(Q)
54 Ethyl Benzene	91	7.748	7.748	(1.004)	1495685	10.5594	10.559(Q)
55 1,1,1,2-Tetrachloroethane	131	7.771	7.776	(1.007)	230850	10.1072	10.107(Q)
56 m,p-xylene	106	7.850	7.850	(1.018)	1148147	21.5085	21.509(Q)
58 o-Xylene	106	8.152	8.158	(1.057)	515144	10.6476	10.648(Q)
59 Styrene	104	8.192	8.198	(1.062)	798664	10.4908	10.491(Q)
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1383033	9.09434	9.094
61 Bromoform	173	8.209	8.215	(0.873)	87455	9.81994	9.820(Q)
62 1,1,2,2-Tetrachloroethane	83	8.733	8.733	(0.929)	123327	9.44443	9.444
\$ 63 4-Bromofluorobenzene	95	8.585	8.585	(1.113)	308305	10.6996	10.700
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	37029	9.38460	9.385(Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	25190	10.1010	10.101(Q)
66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1663441	9.57932	9.579(Q)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
67 Bromobenzene	156	8.659	8.659	(0.921)	265557	9.12003	9.120 (Q)
68 1,3,5-Trimethyl Benzene	105	8.818	8.824	(0.938)	1088052	9.68475	9.685 (Q)
69 2-Chloro Toluene	91	8.789	8.795	(0.935)	1019334	9.34555	9.346
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	910466	9.63683	9.637 (Q)
71 T-Butyl Benzene	119	9.051	9.057	(0.962)	883783	9.30782	9.308 (Q)
72 1,2,4-Trimethylbenzene	105	9.102	9.108	(0.968)	1051635	9.89158	9.892
73 S-Butyl Benzene	105	9.182	9.188	(0.976)	1355114	9.70778	9.708 (Q)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1076143	10.1107	10.111 (Q)
75 1,3-Dichlorobenzene	146	9.347	9.347	(0.994)	495897	10.1530	10.153 (Q)
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.404	(1.000)	288090	10.0000	
77 1,4-Dichlorobenzene	146	9.415	9.415	(1.001)	477787	10.2521	10.252 (Q)
78 N-Butyl Benzene	91	9.615	9.615	(1.022)	980264	10.7764	10.776 (Q)
\$ 79 d4-1,2-Dichlorobenzene	152	9.729	9.728	(1.034)	222010	9.90931	9.909
80 1,2-Dichlorobenzene	146	9.734	9.740	(1.035)	367984	10.0153	10.015 (Q)
81 1,2-Dibromo 3-Chloropropane	75	10.349	10.354	(1.100)	11571	9.93167	9.932 (Q)
82 1,2,4-Trichlorobenzene	180	10.872	10.878	(1.156)	159673	8.91499	8.915 (Q)
83 Hexachloro 1,3-Butadiene	225	10.850	10.855	(1.154)	99590	9.34250	9.343 (Q)
84 Naphthalene	128	11.134	11.134	(1.184)	214775	8.82432	8.824
85 1,2,3-Trichlorobenzene	180	11.276	11.282	(1.199)	112696	9.28139	9.281 (Q)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: lcs0302a.d
 Lab Smp Id: LCS0302
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 02-MAR-2010
 Calibration Time: 15:30
 Client Smp ID: LCS0302
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	452805	-0.75
35 1,4-Difluorobenze	740651	370326	1481302	744237	0.48
52 d5-Chlorobenzene	686240	343120	1372480	710268	3.50
76 d4-1,4-Dichlorobe	249963	124982	499926	288090	15.25

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.71	-0.07
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 02MAR10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0302 Client Smp ID: LCS0302
 Level: LOW Operator: ar
 Data Type: MS DATA SampleType: LCS
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	16.343	163.43*	59-129
2 Chloromethane	10.000	10.696	106.96	66-123
3 Vinyl Chloride	10.000	12.323	123.23*	68-121
4 Bromomethane	10.000	10.368	103.68	55-148
5 Chloroethane	10.000	11.662	116.62	47-155
6 Trichlorofluoromet	10.000	12.081	120.81	70-129
8 Acrolein	10.000	3.854	38.54	24-170
9 112Trichloro122Tri	10.000	11.479	114.79	74-127
10 Acetone	10.000	9.471	94.71	70-130
11 1,1-Dichloroethene	10.000	11.524	115.24	72-120
12 Bromoethane	10.000	11.168	111.68	73-131
13 Iodomethane	10.000	9.361	93.61	34-183
14 Methylene Chloride	10.000	11.272	112.72	70-124
15 Acrylonitrile	10.000	9.900	99.00	71-135
17 Carbon Disulfide	10.000	10.822	108.22	66-129
16 Methyl tert butyl	20.000	21.739	108.69	78-120
18 Trans-1,2-Dichloro	10.000	11.148	111.48	76-120
20 Vinyl Acetate	10.000	8.291	82.91	49-134
21 1,1-Dichloroethane	10.000	11.205	112.05	75-120
22 2-Butanone	10.000	21.039	210.39*	78-131
23 2,2-Dichloropropan	10.000	11.101	111.01	68-121
24 Cis-1,2-Dichloroet	10.000	10.353	103.53	80-120
26 Chloroform	10.000	10.824	108.24	78-120
27 Bromochloromethane	20.000	21.139	105.69	79-120
29 1,1,1-Trichloroeth	10.000	11.199	111.99	76-120
30 1,1-Dichloropropen	10.000	10.888	108.88	78-120
31 Carbon Tetrachlori	10.000	10.951	109.51	70-126
33 1,2-Dichloroethane	10.000	10.738	107.38	78-120
34 Benzene	10.000	10.876	108.76	79-120
36 Trichloroethene	10.000	11.477	114.77	78-120
37 1,2-Dichloropropan	10.000	10.744	107.44	80-120
38 Bromodichlorometha	10.000	10.854	108.54	78-120
39 Dibromomethane	10.000	10.667	106.67	80-120

ME ✓

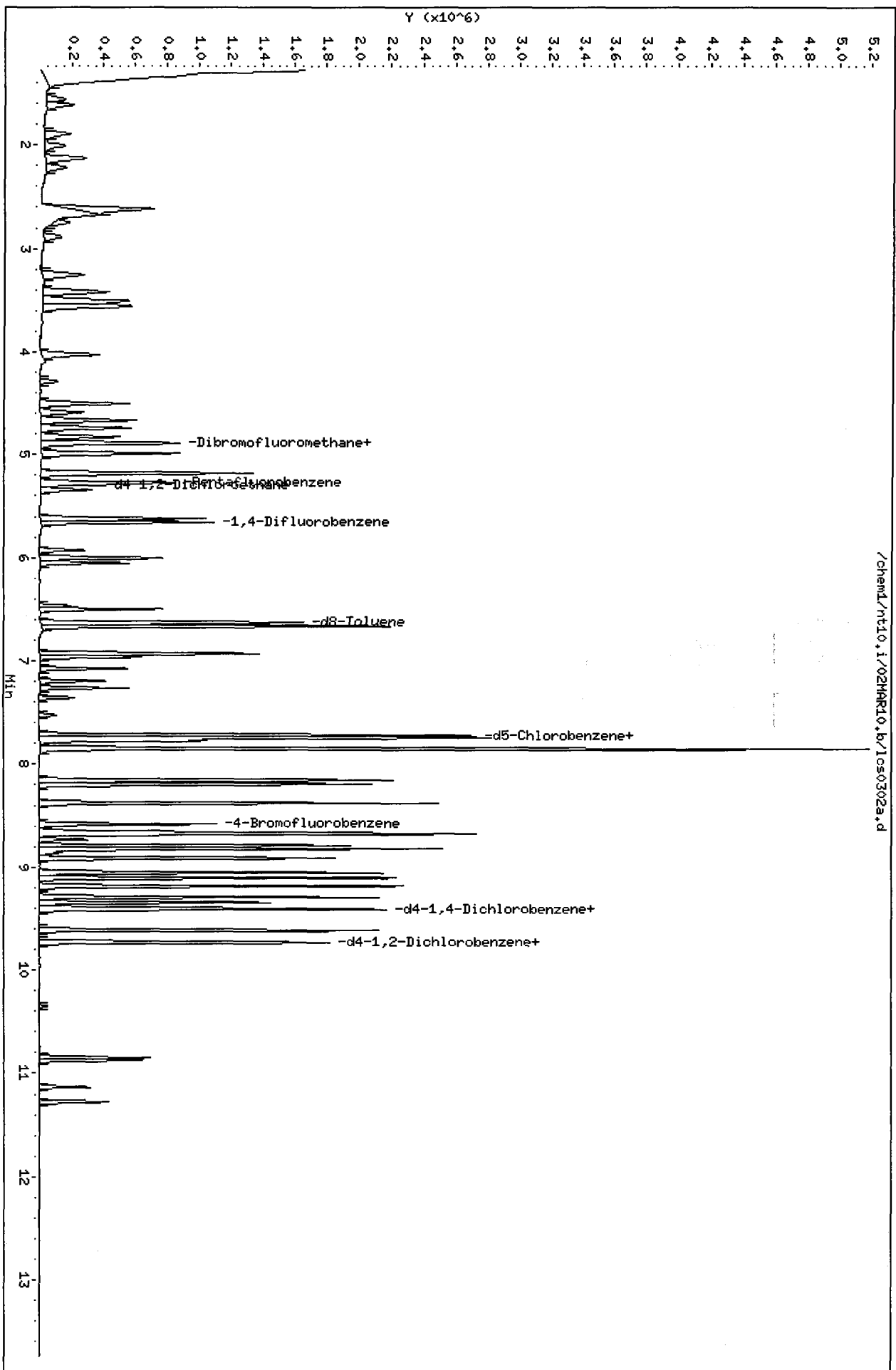
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	12.921	129.21	68-134
41 4-Methyl-2-Pentano	10.000	9.051	90.51	73-131
42 Cis 1,3-dichloropr	10.000	11.021	110.21	78-120
44 Toluene	10.000	10.782	107.82	79-120
45 Trans 1,3-Dichloro	10.000	11.173	111.73	75-120
46 2-Hexanone	10.000	9.288	92.88	75-130
47 1,1,2-Trichloroeth	10.000	10.535	105.35	79-120
48 1,3-Dichloropropan	10.000	10.585	105.85	78-120
49 Tetrachloroethene	10.000	10.530	105.30	72-120
50 Chlorodibromometha	10.000	10.843	108.43	78-120
51 1,2-Dibromoethane	10.000	10.782	107.82	75-120
53 Chlorobenzene	10.000	10.629	106.29	79-120
55 1,1,1,2-Tetrachlor	10.000	10.107	101.07	75-120
54 Ethyl Benzene	10.000	10.559	105.59	78-120
56 m,p-xylene	20.000	21.509	107.54	65-129
58 o-Xylene	10.000	10.648	106.48	76-120
59 Styrene	10.000	10.491	104.91	74-121
60 Isopropyl Benzene	10.000	9.094	90.94	74-120
61 Bromoform	10.000	9.820	98.20	71-120
62 1,1,2,2-Tetrachlor	10.000	9.444	94.44	70-120
64 1,2,3-Trichloropro	10.000	9.385	93.85	73-120
65 Trans-1,4-Dichloro	10.000	10.101	101.01	65-135
66 N-Propyl Benzene	10.000	9.579	95.79	76-121
67 Bromobenzene	10.000	9.120	91.20	72-120
68 1,3,5-Trimethyl Be	10.000	9.685	96.85	74-123
69 2-Chloro Toluene	10.000	9.346	93.46	74-120
70 4-Chloro Toluene	10.000	9.637	96.37	75-120
71 T-Butyl Benzene	10.000	9.308	93.08	73-121
72 1,2,4-Trimethylben	10.000	9.892	98.92	73-124
73 S-Butyl Benzene	10.000	9.708	97.08	75-123
74 4-Isopropyl Toluen	10.000	10.111	101.11	71-125
75 1,3-Dichlorobenzen	10.000	10.153	101.53	72-120
77 1,4-Dichlorobenzen	10.000	10.252	102.52	76-120
78 N-Butyl Benzene	10.000	10.776	107.76	72-124
80 1,2-Dichlorobenzen	10.000	10.015	100.15	75-120
81 1,2-Dibromo 3-Chlo	10.000	9.932	99.32	67-121
82 1,2,4-Trichloroben	10.000	8.915	89.15	71-120
83 Hexachloro 1,3-But	10.000	9.343	93.43	67-124
84 Naphthalene	10.000	8.824	88.24	71-125
85 1,2,3-Trichloroben	10.000	9.281	92.81	61-134

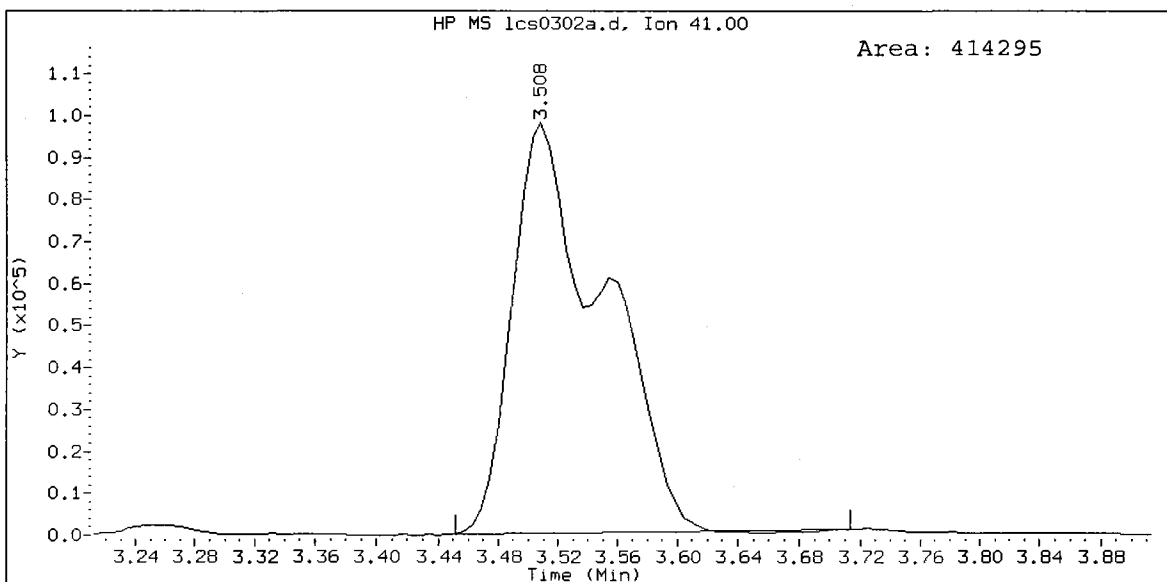
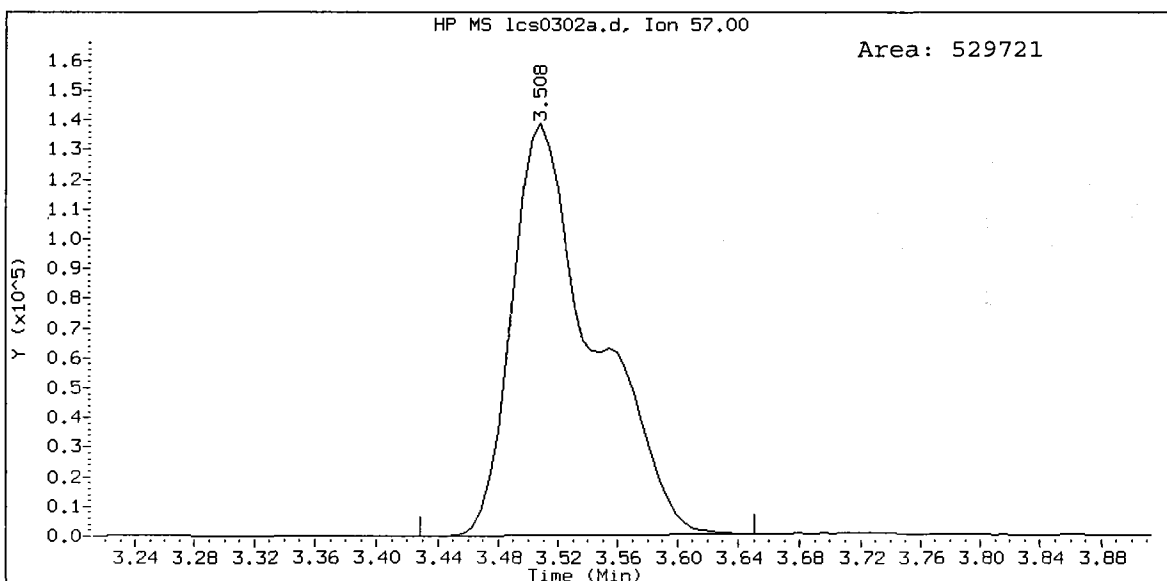
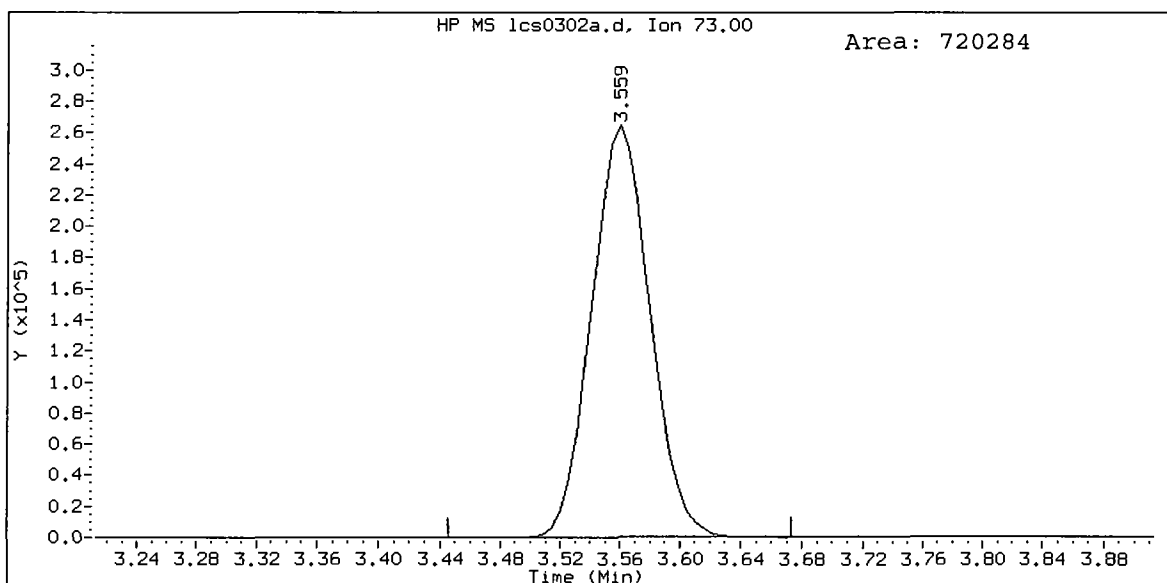
SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 Dibromofluorometha	10.000	10.205	102.05	60-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 d4-1,2-Dichloroeth	10.000	10.500	105.00	80-143
\$ 43 d8-Toluene	10.000	10.400	104.00	80-120
\$ 63 4-Bromofluorobenze	10.000	10.700	107.00	80-120
\$ 79 d4-1,2-Dichloroben	10.000	9.909	99.09	80-120

Data File: /chemd/nt10.i/02MHR10.b/1cs0302a.d
Date : 02-MAR-2010 16:00
Client ID: LCS0302
Sample Info: LCS0302,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18





Analytical Resources, Inc.

AR 3/3/2010

8260C

Data file : /chem1/nt10.i/02MAR10.b/lcs0302b.d
 Lab Smp Id: LCS0302 Client Smp ID: LCS0302
 Inj Date : 02-MAR-2010 16:29
 Operator : ar Inst ID: nt10.i
 Smp Info : LCS0302,10,10,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt10.i/02MAR10.b/82600122L.m
 Meth Date : 03-Mar-2010 11:45 aron Quant Type: ISTD
 Cal Date : 22-FEB-2010 15:12 Cal File: 6000222.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: voa.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85			1.391	1.391	(0.264)	190483	16.5377	16.538(R)
2 Chloromethane	50			1.550	1.550	(0.294)	177185	10.2840	10.284
3 Vinyl Chloride	62			1.619	1.619	(0.307)	251527	12.2787	12.279(QR)
4 Bromomethane	94			1.898	1.898	(0.360)	182061	10.3046	10.305(Q)
5 Chloroethane	64			2.011	2.011	(0.381)	183657	11.4169	11.417(Q)
6 Trichlorofluoromethane	101			2.131	2.131	(0.404)	348742	12.1118	12.112
8 Acrolein	56			3.002	3.007	(0.569)	5306	4.01347	4.013
9 112Trichloro122Trifluoroethane	101			2.671	2.672	(0.507)	217153	11.3017	11.302(Q)
10 Acetone	43			3.343	3.343	(0.634)	26698	12.6171	12.617
11 1,1-Dichloroethene	96			2.615	2.615	(0.496)	252270	11.0384	11.038(Q)
12 Bromoethane	108			2.888	2.888	(0.548)	152905	10.9629	10.963
13 Iodomethane	142			2.751	2.751	(0.522)	273811	8.86474	8.865
14 Methylene Chloride	84			3.258	3.258	(0.618)	214945	11.2906	11.291(Q)
15 Acrylonitrile	53			4.094	4.094	(0.777)	26900	9.98196	9.982
16 Methyl tert butyl ether	73			3.559	3.559	(0.675)	706099	21.0123	21.012(M)
17 Carbon Disulfide	76			2.620	2.620	(0.497)	788714	10.5397	10.540

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
18 Trans-1,2-Dichloroethene	96	3.423	3.423	(0.649)	264160	11.0002	11.000 (Q)
20 Vinyl Acetate	43	4.288	4.294	(0.813)	178808	8.41440	8.414
21 1,1-Dichloroethane	63	4.026	4.026	(0.764)	437541	11.1837	11.184
22 2-Butanone	72	4.993	4.994	(0.947)	28758	21.1299	21.130 (R)
23 2,2-Dichloropropane	77	4.589	4.589	(0.870)	175737	11.2890	11.289
24 Cis-1,2-Dichloroethene	96	4.504	4.504	(0.854)	281007	10.4886	10.489 (Q)
* 25 Pentafluorobenzene	168	5.272	5.272	(1.000)	459238	10.0000	
26 Chloroform	83	4.743	4.743	(0.900)	461803	11.0795	11.079
27 Bromochloromethane	128	4.669	4.669	(0.886)	195576	21.4911	21.491 (Q)
\$ 28 Dibromofluoromethane	111	4.885	4.885	(0.927)	194178	10.1385	10.138
29 1,1,1-Trichloroethane	97	4.891	4.891	(0.928)	364149	11.2319	11.232
30 1,1-Dichloropropene	75	4.988	4.988	(0.881)	417157	11.0053	11.005 (Q)
31 Carbon Tetrachloride	117	4.828	4.828	(0.853)	302036	10.8918	10.892 (Q)
\$ 32 d4-1,2-Dichloroethane	65	5.295	5.295	(1.004)	179980	10.6858	10.686
33 1,2-Dichloroethane	62	5.346	5.346	(0.945)	245801	10.6778	10.678 (Q)
34 Benzene	78	5.181	5.181	(0.916)	1144250	10.6854	10.685
* 35 1,4-Difluorobenzene	114	5.659	5.659	(1.000)	763493	10.0000	
36 Trichloroethene	95	5.619	5.620	(0.993)	336395	11.7238	11.724 (Q)
37 1,2-Dichloropropane	63	6.006	6.007	(1.061)	252612	10.8968	10.897 (Q)
38 Bromodichloromethane	83	6.052	6.058	(1.069)	319555	10.8997	10.900
39 Dibromomethane	93	5.932	5.933	(1.048)	99450	10.7349	10.735 (Q)
40 2-Chloroethyl Vinyl Ether	63	6.467	6.468	(1.143)	74255	13.4931	13.493 (QR)
41 4-Methyl-2-Pentanone	58	6.945	6.946	(1.227)	36990	9.04569	9.046 (Q)
42 Cis 1,3-dichloropropene	75	6.502	6.502	(1.149)	363225	11.1320	11.132 (Q)
\$ 43 d8-Toluene	98	6.632	6.633	(1.172)	967205	10.3965	10.397
44 Toluene	92	6.667	6.667	(1.178)	789462	10.8086	10.809
45 Trans 1,3-Dichloropropene	75	6.963	6.963	(1.230)	268785	11.2030	11.203 (Q)
46 2-Hexanone	43	7.526	7.526	(0.975)	60249	9.48388	9.484
47 1,1,2-Trichloroethane	97	7.076	7.076	(1.250)	150248	10.5639	10.564 (Q)
48 1,3-Dichloropropane	76	7.264	7.264	(0.941)	276837	10.6096	10.610 (Q)
49 Tetrachloroethene	166	6.928	6.928	(0.898)	333672	10.5428	10.543 (Q)
50 Chlorodibromomethane	129	7.196	7.196	(0.932)	187690	10.7298	10.730 (Q)
51 1,2-Dibromoethane	107	7.361	7.361	(1.301)	135928	10.7604	10.760
* 52 d5-Chlorobenzene	117	7.719	7.720	(1.000)	728056	10.0000	
53 Chlorobenzene	112	7.731	7.731	(1.001)	813613	10.6327	10.633 (Q)
54 Ethyl Benzene	91	7.748	7.748	(1.004)	1543689	10.6321	10.632 (Q)
55 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.007)	239391	10.2251	10.225 (Q)
56 m,p-xylene	106	7.850	7.850	(1.017)	1180902	21.5817	21.582 (Q)
58 o-Xylene	106	8.158	8.158	(1.057)	528739	10.6616	10.662 (Q)
59 Styrene	104	8.192	8.198	(1.061)	820902	10.5194	10.519 (Q)
60 Isopropyl Benzene	105	8.380	8.380	(0.891)	1435322	9.31367	9.314
61 Bromoform	173	8.215	8.215	(0.874)	85457	9.46902	9.469 (Q)
62 1,1,2,2-Tetrachloroethane	83	8.732	8.733	(0.929)	125882	9.51293	9.513
\$ 63 4-Bromofluorobenzene	95	8.584	8.585	(1.112)	313044	10.5986	10.599
64 1,2,3-Trichloropropane	110	8.835	8.835	(0.939)	38493	9.62694	9.627 (Q)
65 Trans-1,4-Dichloro 2-Butene	53	8.863	8.863	(0.942)	23737	9.41461	9.415 (Q)
66 N-Propyl Benzene	91	8.676	8.681	(0.923)	1709468	9.71452	9.715 (Q)

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
67 Bromobenzene	156	8.658	8.659	(0.921)	275048	9.32138	9.321 (Q)
68 1,3,5-Trimethyl Benzene	105	8.823	8.824	(0.938)	1115371	9.79696	9.797 (Q)
69 2-Chloro Toluene	91	8.789	8.795	(0.935)	1053285	9.52943	9.529
70 4-Chloro Toluene	91	8.915	8.915	(0.948)	928951	9.70279	9.703 (Q)
71 T-Butyl Benzene	119	9.057	9.057	(0.963)	910266	9.46028	9.460 (Q)
72 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.969)	1078794	10.0132	10.013
73 S-Butyl Benzene	105	9.188	9.188	(0.977)	1401333	9.90646	9.906 (Q)
74 4-Isopropyl Toluene	119	9.296	9.296	(0.988)	1101437	10.2118	10.212 (Q)
75 1,3-Dichlorobenzene	146	9.347	9.347	(0.994)	500556	10.1132	10.113 (Q)
* 76 d4-1,4-Dichlorobenzene	152	9.404	9.404	(1.000)	291941	10.0000	
77 1,4-Dichlorobenzene	146	9.415	9.415	(1.001)	481470	10.1949	10.195 (Q)
78 N-Butyl Benzene	91	9.615	9.615	(1.022)	988128	10.7195	10.720 (Q)
\$ 79 d4-1,2-Dichlorobenzene	152	9.728	9.728	(1.034)	222229	9.78825	9.788
80 1,2-Dichlorobenzene	146	9.740	9.740	(1.036)	368943	9.90891	9.909 (Q)
81 1,2-Dibromo 3-Chloropropane	75	10.354	10.354	(1.101)	11429	9.68038	9.680 (Q)
82 1,2,4-Trichlorobenzene	180	10.878	10.878	(1.157)	158689	8.74318	8.743 (Q)
83 Hexachloro 1,3-Butadiene	225	10.855	10.855	(1.154)	97077	8.98663	8.987 (Q)
84 Naphthalene	128	11.140	11.134	(1.185)	214842	8.71064	8.711
85 1,2,3-Trichlorobenzene	180	11.282	11.282	(1.200)	111994	9.10191	9.102 (Q)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: lcs0302b.d
 Lab Smp Id: LCS0302
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ar
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-

Calibration Date: 02-MAR-2010
 Calibration Time: 15:30
 Client Smp ID: LCS0302
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	456228	228114	912456	459238	0.66
35 1,4-Difluorobenze	740651	370326	1481302	763493	3.08
52 d5-Chlorobenzene	686240	343120	1372480	728056	6.09
76 d4-1,4-Dichlorobe	249963	124982	499926	291941	16.79

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
35 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00
52 d5-Chlorobenzene	7.72	7.22	8.22	7.72	0.00
76 d4-1,4-Dichlorobe	9.40	8.90	9.90	9.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 02MAR10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS0302 Client Smp ID: LCS0302
 Level: LOW Operator: ar
 Data Type: MS DATA SampleType: LCS
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt10.i/02MAR10.b/82600122L.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	16.538	165.38*	59-129
2 Chloromethane	10.000	10.284	102.84	66-123
3 Vinyl Chloride	10.000	12.279	122.79*	68-121
4 Bromomethane	10.000	10.305	103.05	55-148
5 Chloroethane	10.000	11.417	114.17	47-155
6 Trichlorofluoromet	10.000	12.112	121.12	70-129
8 Acrolein	10.000	4.013	40.13	24-170
9 112Trichloro122Tri	10.000	11.302	113.02	74-127
10 Acetone	10.000	12.617	126.17	70-130
11 1,1-Dichloroethene	10.000	11.038	110.38	72-120
12 Bromoethane	10.000	10.963	109.63	73-131
13 Iodomethane	10.000	8.865	88.65	34-183
14 Methylene Chloride	10.000	11.291	112.91	70-124
15 Acrylonitrile	10.000	9.982	99.82	71-135
17 Carbon Disulfide	10.000	10.540	105.40	66-129
16 Methyl tert butyl	20.000	21.012	105.06	78-120
18 Trans-1,2-Dichloro	10.000	11.000	110.00	76-120
20 Vinyl Acetate	10.000	8.414	84.14	49-134
21 1,1-Dichloroethane	10.000	11.184	111.84	75-120
22 2-Butanone	10.000	21.130	211.30*	78-131
23 2,2-Dichloropropan	10.000	11.289	112.89	68-121
24 Cis-1,2-Dichloroet	10.000	10.489	104.89	80-120
26 Chloroform	10.000	11.079	110.79	78-120
27 Bromochloromethane	20.000	21.491	107.46	79-120
29 1,1,1-Trichloroeth	10.000	11.232	112.32	76-120
30 1,1-Dichloropropen	10.000	11.005	110.05	78-120
31 Carbon Tetrachlori	10.000	10.892	108.92	70-126
33 1,2-Dichloroethane	10.000	10.678	106.78	78-120
34 Benzene	10.000	10.685	106.85	79-120
36 Trichloroethene	10.000	11.724	117.24	78-120
37 1,2-Dichloropropan	10.000	10.897	108.97	80-120
38 Bromodichlorometha	10.000	10.900	109.00	78-120
39 Dibromomethane	10.000	10.735	107.35	80-120

ME

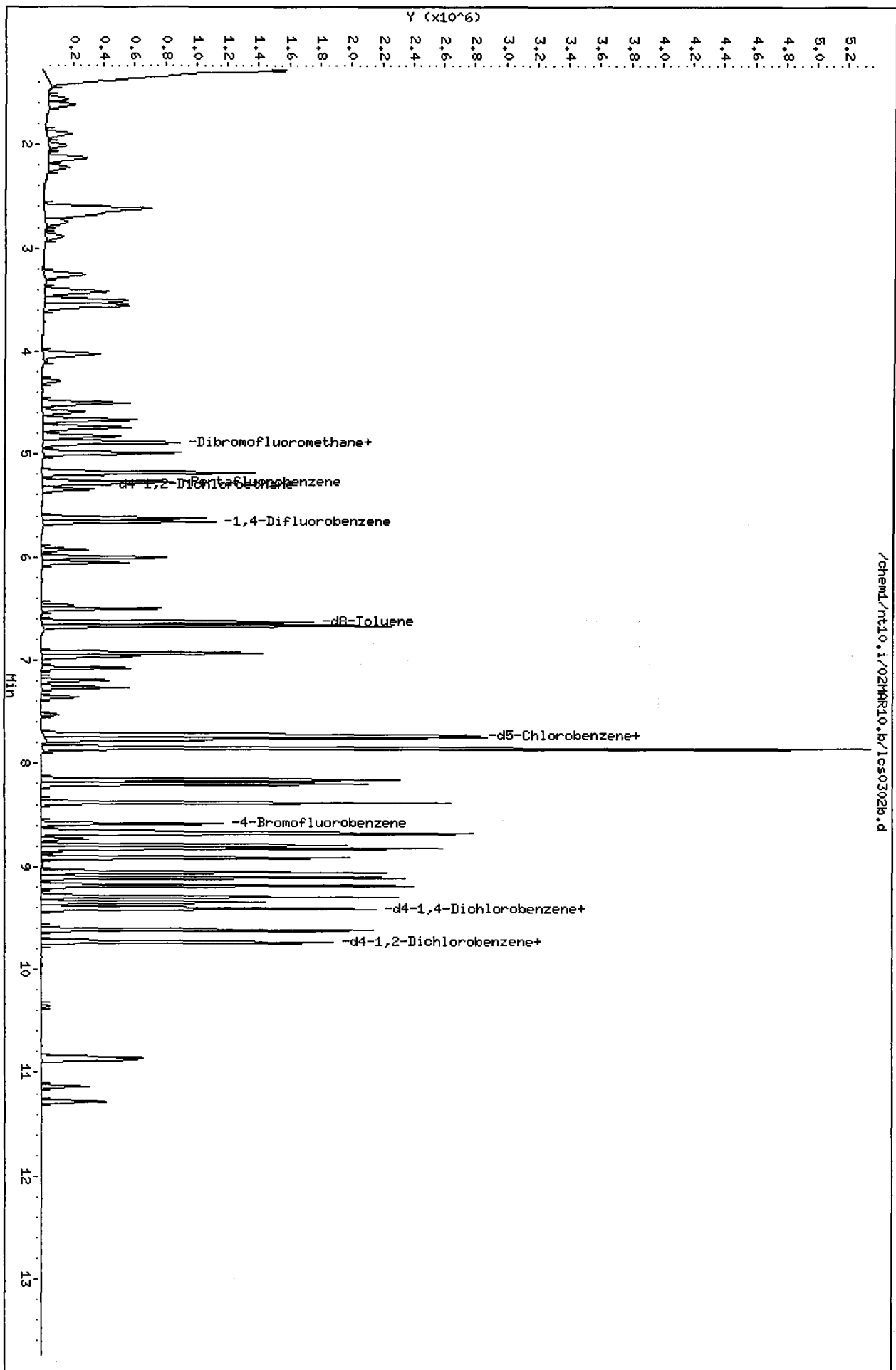
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	10.000	13.493	134.93*	68-134
41 4-Methyl-2-Pentano	10.000	9.046	90.46	73-131
42 Cis 1,3-dichloropr	10.000	11.132	111.32	78-120
44 Toluene	10.000	10.809	108.09	79-120
45 Trans 1,3-Dichloro	10.000	11.203	112.03	75-120
46 2-Hexanone	10.000	9.484	94.84	75-130
47 1,1,2-Trichloroeth	10.000	10.564	105.64	79-120
48 1,3-Dichloropropan	10.000	10.610	106.10	78-120
49 Tetrachloroethene	10.000	10.543	105.43	72-120
50 Chlorodibromometha	10.000	10.730	107.30	78-120
51 1,2-Dibromoethane	10.000	10.760	107.60	75-120
53 Chlorobenzene	10.000	10.633	106.33	79-120
55 1,1,1,2-Tetrachlor	10.000	10.225	102.25	75-120
54 Ethyl Benzene	10.000	10.632	106.32	78-120
56 m,p-xylene	20.000	21.582	107.91	65-129
58 o-Xylene	10.000	10.662	106.62	76-120
59 Styrene	10.000	10.519	105.19	74-121
60 Isopropyl Benzene	10.000	9.314	93.14	74-120
61 Bromoform	10.000	9.469	94.69	71-120
62 1,1,2,2-Tetrachlor	10.000	9.513	95.13	70-120
64 1,2,3-Trichloropro	10.000	9.627	96.27	73-120
65 Trans-1,4-Dichloro	10.000	9.415	94.15	65-135
66 N-Propyl Benzene	10.000	9.715	97.15	76-121
67 Bromobenzene	10.000	9.321	93.21	72-120
68 1,3,5-Trimethyl Be	10.000	9.797	97.97	74-123
69 2-Chloro Toluene	10.000	9.529	95.29	74-120
70 4-Chloro Toluene	10.000	9.703	97.03	75-120
71 T-Butyl Benzene	10.000	9.460	94.60	73-121
72 1,2,4-Trimethylben	10.000	10.013	100.13	73-124
73 S-Butyl Benzene	10.000	9.906	99.06	75-123
74 4-Isopropyl Toluen	10.000	10.212	102.12	71-125
75 1,3-Dichlorobenzen	10.000	10.113	101.13	72-120
77 1,4-Dichlorobenzen	10.000	10.195	101.95	76-120
78 N-Butyl Benzene	10.000	10.720	107.20	72-124
80 1,2-Dichlorobenzen	10.000	9.909	99.09	75-120
81 1,2-Dibromo 3-Chlo	10.000	9.680	96.80	67-121
82 1,2,4-Trichloroben	10.000	8.743	87.43	71-120
83 Hexachloro 1,3-But	10.000	8.987	89.87	67-124
84 Naphthalene	10.000	8.711	87.11	71-125
85 1,2,3-Trichloroben	10.000	9.102	91.02	61-134

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 Dibromofluorometha	10.000	10.138	101.38	60-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 d4-1,2-Dichloroeth	10.000	10.686	106.86	80-143
\$ 43 d8-Toluene	10.000	10.397	103.97	80-120
\$ 63 4-Bromofluorobenze	10.000	10.599	105.99	80-120
\$ 79 d4-1,2-Dichloroben	10.000	9.788	97.88	80-120

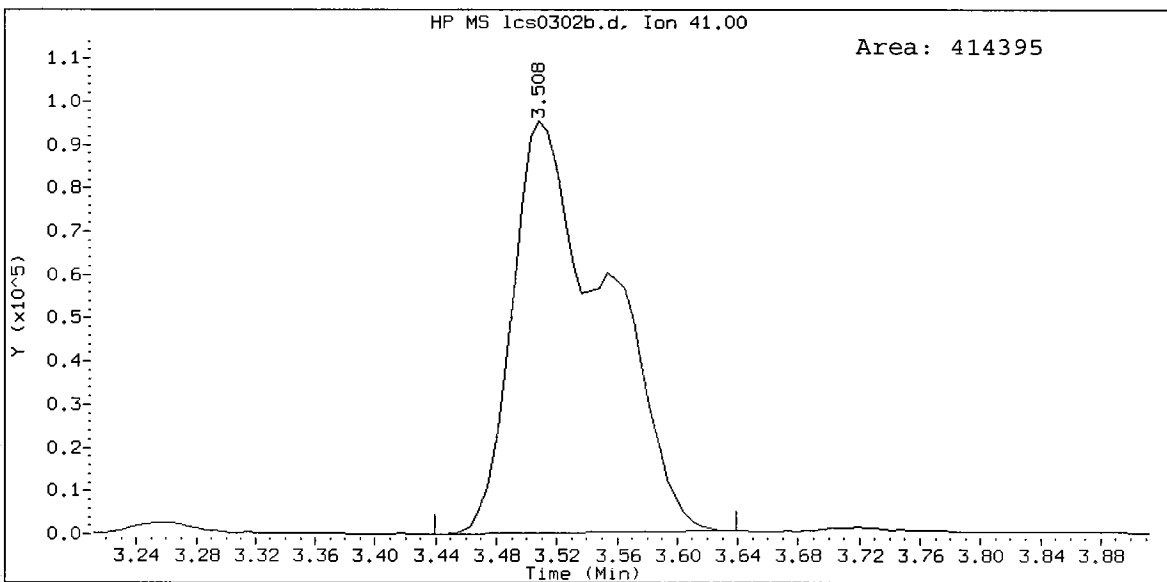
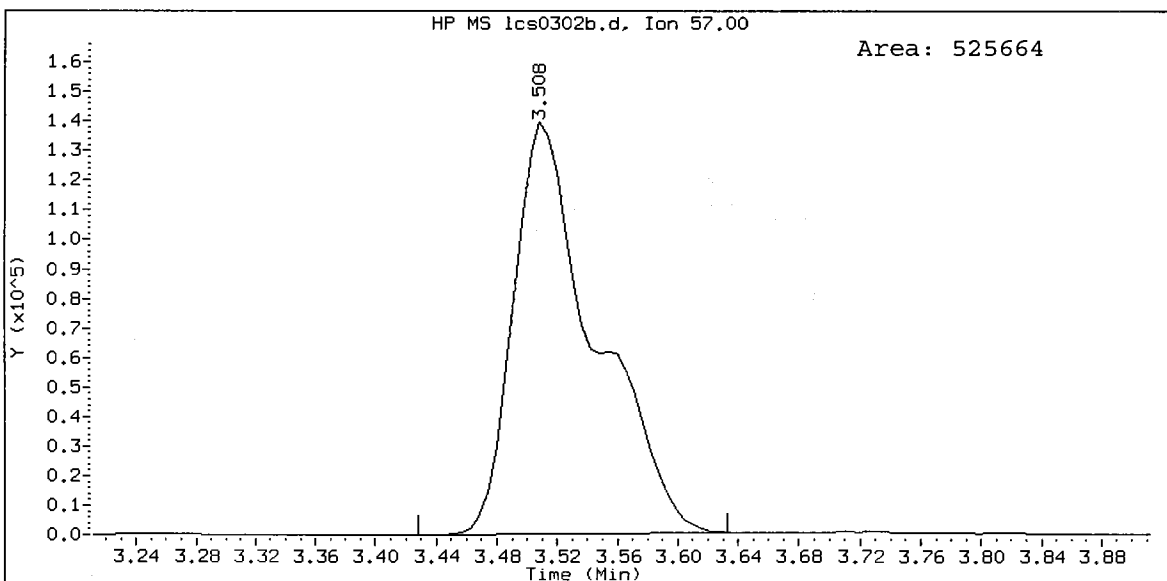
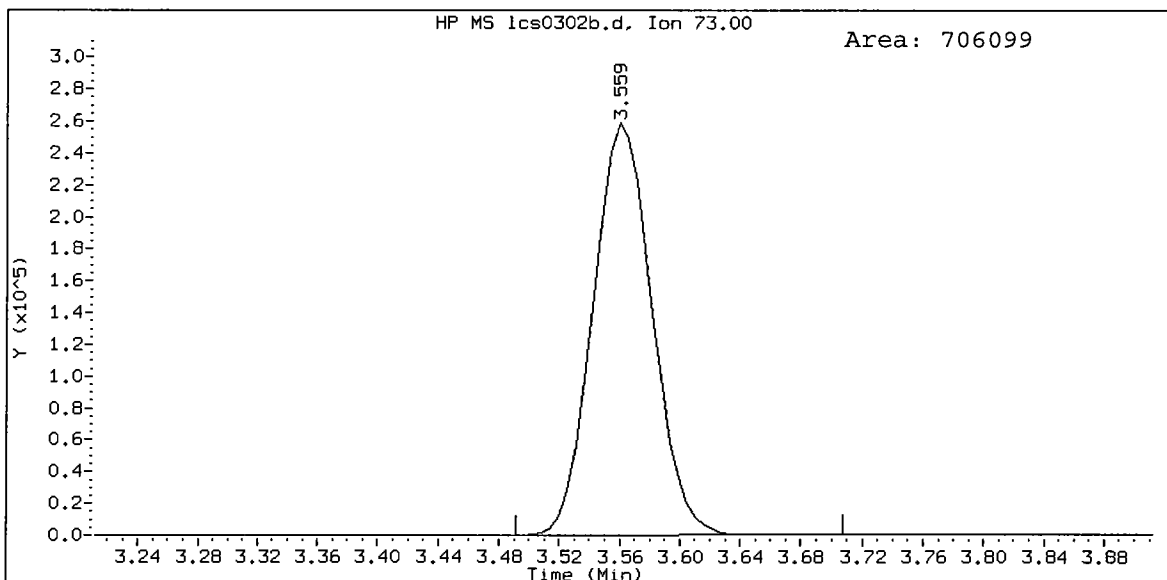
Data File: /chem1/n110.i/02HAR10.b/lcs0302b.d
Date : 02-MAR-2010 16:29
Client ID: LCS0302
Sample Info: LCS0302.10,10,10
Column phase: RTX502.2

Instrument: n110.i
Operator: ar
Column diameter: 0.18



/chem1/n110.i/02HAR10.b/lcs0302b.d

02 03 10 16:29



Volatile Analysis
Run Logs

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: 8260 ICAI Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **703S**(SIM) **706S**(524.2) **708S**(8260C) **710S**(MME)

Parameter(s): 8260

Instrument: NT-3 **(NT-5)** NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 1/28/10 Analysis Start Date: 1/28/10

pH ≤ 2.0 YES / NO / NA Method Blank In Control? **(YES)** / NO

BFB Tune Meets Criteria? **(YES)** / NO / NA LCS / LCSD Recovery In Control? **(YES)** / NO

Internal Standard Meets Criteria? **(YES)** / NO / NA Surrogate Recovery In Control? **(YES)** / NO

Special Analysis Criteria Met? YES / NO / **(NA)**

ICal acceptable? **(YES)** / NO; Q flag applied? YES / **(NO)** / NA

CCal acceptable? **(YES)** / NO; Q flag applied? YES / **(NO)** / NA

Bubbles/Headspace: **(None)** SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

ICU VA 53%, poor performer

Additional Details on Reverse: Yes / No

Analyst Signature: *Karl Engvall* Date: 1/29/10

Reviewer's Signature: *[Signature]* Date: 1/29/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-5 Serial No.: GC=US10228086, MS=US10462818

Date: 1/28/10 Analysis: 8260C Analyst: PC
 GC Program: VOLVIA Column No: 850322 Column Type: RTXVMS
 Instrument Tune (.U or .CT.): 01281004 EM Voltage: 1753
 Inj. Vol: 10 Calibration File: 01281009 Date: 1/28/10

IS/SS	Ical/Ccal	LCS/ICV
<u>VW66-3</u>	<u>VW612-3</u>	<u>VW614-2</u>
	<u>VW614-5</u>	<u>VW589-5</u>
	<u>VW615-1</u>	<u>VW590-2</u>
	<u>VW611-3</u>	<u>VW614-3</u>
	<u>VW610-3</u>	<u>VW589-1</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt5.i/28JAN10.b

Time	Filename	LabID	ClientID	Vials	pH	DF
1	1014 01281001.d	TEST0127	TEST0127			1
2	1244 01281002.d	TEST0127	TEST0127			1
3	1334 01281003.d	TEST0127	TEST0127			1
4	1417 01281004.d	BFB0127	BFB0127		0.00	
5	1506 01281005.d	0.2 0127	0.2 ppb	1	4.74	479193 5.19 724817 7.65 620066 9.71 309832
6	1532 01281006.d	0.5 0127	0.5 ppb	1	4.74	475919 5.19 716309 7.65 627615 9.71 312119
7	1557 01281007.d	1.0 0127	1 ppb	1	4.75	468227 5.19 707103 7.65 615931 9.71 316869
8	1623 01281008.d	2.0 0127	2 ppb	1	4.74	474687 5.19 714297 7.65 613553 9.71 318067
9	1648 01281009.d	10 0127	10 ppb	1	4.74	471555 5.19 723083 7.65 624979 9.71 328841
10	1714 01281010.d	20 0127	20 ppb	1	4.75	482450 5.19 728422 7.65 637911 9.71 328256
11	1740 01281011.d	40 0127	40 ppb	1	4.74	486697 5.19 742330 7.65 627687 9.71 348746
12	1805 01281012.d	60 0127	60 ppb	1	4.75	493333 5.19 727807 7.65 633826 9.71 357565
13	1831 01281013.d	RINSE		1	4.74	469589 5.19 717707 7.65 613044 9.71 312472
14	1857 01281014.d	ICV 0127	ICV	1	4.74	482476 5.19 734098 7.65 616173 9.71 324256

PC 2/1/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

QL34 : 00532

Analytical Resources Inc.: Volatile Organics Instrument

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 2/22/2010 Analysis: 8260 Analyst:

GC Program: VOLAT Column No: 868268 Column Type:

Instrument Tune (.U or .CT.): bfb0222.d EM Voltage: 1.53

Calibration File: 1000222.d Curve Date: 2/22/2010

IS/SS	Ical/Ccal	LCS/ICV
<u>617-3</u>	<u>619-2#3</u>	<u>569-5</u>
	<u>614-5</u>	<u>614-2#3</u>
	<u>615-1</u>	<u>590-2</u>
	<u>617-1</u>	<u>589-1</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/22FEB10.b

Time	Filename	LabID	ClientID	WT						
1317	bfb0222.d	BFB0222	BFB0222	0.00						
1342	rb0222.d	RB0222	RB0222		1	5.27	487067	5.66	763510	7.72 674057 9.40
1412	icv0222.d	ICV0222	ICV0222		1	5.27	462518	5.65	741639	7.71 683017 9.40
1442	0020222.d	IC002	vstd1		1	5.27	504659	5.65	802559	7.71 697183 9.40
1512	6000222.d	IC600	vstd8		1	5.27	463099	5.66	749765	7.72 738803 9.41 21533
1542	4000222.d	IC400	vstd7		1	5.27	465690	5.66	755412	7.72 713354 9.41 213645
1611	4000222a.d	IC400	vstd7		1	5.27	442482	5.66	709206	7.72 684917 9.41 213572
1641	2000222.d	IC200	vstd6		1	5.27	451239	5.65	731744	7.72 685726 9.41 229111
1711	1000222.d	IC100	vstd4		1	5.27	456228	5.66	740651	7.72 686240 9.41 249963
1741	0400222.d	IC040	vstd5		1	5.27	405719	5.65	648113	7.72 610243 9.41 240346
1811	0100222.d	IC010	vstd3		1	5.27	433328	5.65	700220	7.72 634278 9.41 208032
1841	0050222.d	IC005	vstd2		1	5.27	407710	5.66	651788	7.72 599619 9.40 226696
1912	icv0222a.d	ICV0222	ICV0222		1	5.27	431492	5.66	702592	7.72 655186 9.40 236007
1941	rb0222a.d	RB0222	RB0222		1	5.27	404213	5.65	642864	7.71 572849 9.40 210210

Handwritten mark resembling a lightning bolt or stylized 'S'.

AR 2/26/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: 8260 Curve Client ID: ARI

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 2/22/2010 Analysis Start Date: 2/22/2010

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO YF

BFB Tune Meets Criteria? YES / NO / NA LCS / LCSD Recovery In Control? YES / NO YF

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

Special Analysis Criteria Met? YES / NO / NA

ICal acceptable? YES / NO; Q flag applied? YES / NO / NA

CCal acceptable? YES / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

H. Curve Types: Bromomethane Linear - forced & Trans-1,4-dichloro ~~but~~-2-butene Quadratic - forced.

ints Dropped: Chloromethane 0.2ppb (below 1ppb RL); Bromomethane 0.2 & 0.5ppb (below 1ppb RL); Acrolein 1ppb (below 5ppb RL); Acetone 1ppb (below 5ppb RL); Iodo methane 0.2ppb (below 1ppb RL); Acrylonitrile 0.2ppb (below 1ppb RL); 2CEVE 0.2ppb (below 1ppb RL); Trans-1,4-dichloro-2-butene 0.2 ~~ppb~~ & 0.5ppb (below 1ppb RL); Hexachloro-1,3-butadiene, Naphthalene & 1,2,3-trichloro benzene 0.2ppb (below 0.5ppb RL)

Additional Details on Reverse: Yes / No

Analyst Signature: _____ Date: 2/23/2010

Reviewer's Signature: _____ Date: 2/23/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-5 Serial No.: GC=US10228086, MS=US10462818

Date: 2/25/10 Analysis: 8200 Analyst: PC
 GC Program: VOAL0A Column No: 850822 Column Type: RTXVMS
 Instrument Tune (.U or .CT.): 02251001 EM Voltage: 17K5
 Inj. Vol: 10 Calibration File: 02251002 KAD Date: 1/28/10

IS/SS	Ical/CCal	LCS/ICV
<u>VW618-3</u>	<u>VW620-2</u>	
	<u>VW614-5</u>	
	<u>VW615-1</u>	
	<u>VW619-2</u>	
	<u>VW619-3</u>	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt5.i/25FEB10.b

Time	Filename	LabID	ClientID	WT
1 0924	02251001.d	BFB0225	BFB0225	0.00
2 1000	02251002.d	CC0225	CC0225	1 4.74 410112 5.19 628981 7.65 556528 9.71 294798
3 1026	02251003.d	LCS0225	LCS0225	1 4.75 403290 5.19 630744 7.65 558517 9.71 292453
4 1051	02251004.d	LCSD0225	LCSD0225	1 4.75 419200 5.19 636309 7.65 565441 9.71 294462
5 1117	02251005.d	MB0225	MB0225	1 4.75 396460 5.19 614606 7.65 555892 9.71 273459
6 1143	02251006.d	MB0225A	MB0225A	1 4.75 393036 5.19 609469 7.65 552757 9.71 269849
7 1216	02251007.d	QK24K	Trip Blank	1 4.74 394292 5.19 601923 7.65 543214 9.71 262520
8 1242	02251008.d	QL25I	TRIP BLANK	1 4.75 393902 5.19 599569 7.65 534036 9.71 265943
9 1307	02251009.d	QL34E	TBD22310	1 4.74 394943 5.19 596312 7.65 546827 9.71 269394
10 1333	02251010.d	QK24A	BDC-05-3-100216	3 4.74 378388 5.19 597578 7.65 526526 9.71 261072
11 1359	02251011.d	QK24B	BDC-05-8-100216	3 4.74 379052 5.19 593774 7.65 517053 9.71 259439
12 1424	02251012.d	QK24C	BDC-05-4-100216	2 4.74 377631 5.19 587022 7.65 512979 9.71 265751
13 1450	02251013.d	QK24D	BDC-05-7-100216	3 4.74 388177 5.19 591921 7.65 510623 9.71 252124
14 1516	02251014.d	QK24E	BDC-05-2-100216	3 4.75 384153 5.19 596996 7.65 534277 9.71 270889
15 1544	02261015.d	QL25A	I-GW25-GW081-100224	1 4.75 365842 5.19 576768 7.65 530899 9.71 262541
16 1610	02251016.d	QL25B	I-GW25-GW082-100224	2 4.75 378043 5.19 578931 7.65 518533 9.71 274989
17 1636	02251017.d	QL25C	I-GW25-GW083-100224	1 4.74 367819 5.19 567788 7.65 509181 9.71 262443
18 1701	02251018.d	QL25D	I-GW25-GW152-100224	1 4.74 374996 5.19 594154 7.65 516098 9.71 262975
19 1727	02251019.d	QL25E	I-GW25-GW153-100224	1 4.75 367302 5.19 573890 7.65 514667 9.71 255913
20 1752	02251020.d	QL25F	I-GW25-GW172-100224	1 4.74 372307 5.19 572100 7.65 520851 9.71 254661
21 1818	02251021.d	QL25G	I-GW25-GW173-100224	1 4.74 359200 5.19 557511 7.65 505020 9.71 244038
22 1844	02251022.d	QL25H	I-GW25-GWDUP-100224	1 4.74 359555 5.19 568762 7.65 498755 9.71 248043
23 1909	02251023.d	QL34A	CB31A022310GRAB	2 4.75 362813 5.19 561208 7.65 498907 9.71 249211
24 1935	02251024.d	QL34B	CB100022310GRAB	1 4.75 364961 5.19 560935 7.65 504636 9.71 258227
25 2001	02251025.d	QL34C	CB4857022310GRAB	1 4.75 362678 5.19 554030 7.65 484865 9.71 252262
26 2026	02251026.d	QL34D	CB1022310GRAB	1 4.74 357592 5.19 550543 7.65 497570 9.71 251415
27 2052	02251027.d	QL25GMS	I-GW25-GW173-10 MSD	3 4.75 379902 5.19 578734 7.65 511412 9.71 272731
28 2118	02251028.d	QL25GMBD	I-GW25-GW173-10 MSD	2 4.75 382337 5.19 576682 7.65 501627 9.71 269220

Maintenan

PC 2/25/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: QL34 Client ID: Floyd/Snider

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) **708S(8260C)** 710S(MME)

Parameter(s): 8260C

Instrument: NT-3 **(NT-5)** NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 20 Curve Date: 1/28/10 Analysis Start Date: 2/25/10

pH ≤ 2.0 **(YES)**/ NO / NA Method Blank In Control? **(YES)**/ NO

BFB Tune Meets Criteria? **(YES)**/ NO / NA LCS / LCSD Recovery In Control? **(YES)**/ NO

Internal Standard Meets Criteria? **(YES)**/ NO / NA Surrogate Recovery In Control? **(YES)**/ NO

Special Analysis Criteria Met? YES / NO / **(NA)**

ICal acceptable? **(YES)** / NO; Q flag applied? YES / **(NO)** / NA

CCal acceptable? **(YES)** / NO; Q flag applied? YES / **(NO)** / NA

Bubbles/Headspace: **(None)** SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Very short list, no target 2 days

Additional Details on Reverse: Yes / No

Analyst Signature: _____ Date: _____

Reviewer's Signature: B Date: 3/5/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 3/2/2010 Analysis: 8260 Analyst: AR

GC Program: VOA10 Column No: 868265 Column Type: RTX VMS

Instrument Tune (.U or .CT.): bfb0302.b EM Voltage: 1153

Calibration File: _____ Curve Date: 2/22/2010

IS/SS	Ical/Ccal	LCS/ICV
<u>617-3</u>	<u>619-2#3, 614-5, 615-1 #167-1</u>	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/02MAR10.b

Time	Filename	LabID	ClientID	WT								
1	0945	bfb0302.d	BFB0302	BFB0302	0.00							
2	1430	sb0302.d	sb0302	sb0302	1	5.27	438464	5.66	714205	7.72	692855	9.41 297232
3	1500	1000302.d	CC0302	CC0302	1	5.27	427533	5.66	702273	7.71	675979	9.40 294586
4	1530	1000302A.d	CC0302	CC0302	1	5.27	456988	5.66	751763	7.72	719637	9.40 289315
5	1600	lcs0302a.d	LCS0302	LCS0302	1	5.27	452805	5.66	744237	7.71	710268	9.40 288090
6	1629	lcs0302b.d	LCS0302	LCS0302	1	5.27	459238	5.66	763493	7.72	728056	9.40 291941
7	1659	mb0302.d	MB0302	MB0302	1	5.27	462398	5.66	765064	7.72	692991	9.40 246407
8	1732	ql199a.d	QL99A	A-EFF	1	5.27	408861	5.66	671728	7.71	624804	9.40 245335
9	1802	ql199a2.d	QL99A	A-EFF	1	5.27	424508	5.66	692054	7.72	639765	9.40 250353
10	1833	ql199b.d	QL99B	A-INT	1	5.27	470224	5.66	767675	7.71	702507	9.40 252950
11	1903	ql199c.d	QL99C	A-INF	1	5.27	443152	5.66	734951	7.71	668961	9.40 238622
12	1933	rb0302.d	RB0302	RB0302	1	5.27	402340	5.66	657114	7.71	608104	9.40 233785
13	2002	ql134ams.d	QL134A	CB31A022310GRAB MS	4	5.27	405694	5.66	675231	7.72	652008	9.40 283924
14	2032	ql134amsd.d	QL134A	CB31A022310GRAB MSD	5	5.27	442086	5.66	740077	7.72	713599	9.40 284772
15	2102	rb0302a.d	RB0302	RB0302	1	5.27	399985	5.66	661580	7.72	614422	9.40 242527

NA

4

5

2

AR 3/3/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: QL34 Client ID: Floyd-Snider

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

Parameter(s): N

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 2/22/2010 Analysis Start Date: 3/2/2010

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO

BFB Tune Meets Criteria? YES / NO / NA LCS / LCSD Recovery In Control? YES / NO ⁽²⁾

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

Special Analysis Criteria Met? YES / NO / NA ^{VDP}

ICal acceptable? YES / NO; Q flag applied? YES / NO / NA

CCal acceptable? YES / NO; Q flag applied? YES / NO / NA ⁽¹⁾

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- 1) Q flags DCFM ↑ 69.4%^D, Vinyl Chloride ↑ 20.1%^D, Trichlorofluoromethane ↑ 22.6%^D, Acrokin ↓ 55.3%^D, Acetone ↑ 28.3%^D, 2-Butanone ↑ 115%^D & 2CEVE ↑ 313%^D
 - 1) LCS: DCFM @ 163.43%^R (limit 129%, ME 141%^R), Vinyl Chloride @ 123.23%^R (limit 121%^R, ME 130%^R) & 2-butanone @ 210.39%^R (limit 131%^R, ME 140%^R)
 - LCSD: DCFM @ 165.38%^R, Vinyl chloride 122.79%^R, 2-butanone @ 211.30%^R & 2CEVE @ 134.93%^R (limit 134%^R, ME 145%^R)
- not requested q/d*

: 1,2-Dichloroethane only
Using new spike solution

Additional Details 'on Reverse: Yes / No

Analyst Signature: [Signature] Date: 3/3/2010

Reviewer's Signature: [Signature] Date: 3/5/10

SIM Volatile Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-030510	104%	99.0%	0
LCS-030510	96.6%	104%	0
LCSD-030510	97.5%	101%	0
CB31A022310GRAB	105%	99.9%	0
CB31A022310GRAB-MS	97.1%	100%	0
CB31A022310GRAB-MSD	98.9%	101%	0
CB100022310GRAB	105%	100%	0
CB4857022310GRAB	107%	99.8%	0
CB1022310GRAB	108%	99.2%	0
TB022310	100%	98.0%	0


	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(80-133)	(80-136)
(TOL) = d8-Toluene	(80-121)	(80-120)

Prep Method: SW5030
Log Number Range: 10-4685 to 10-4689

FORM-II SW8260-SIM

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: 
Reported: 03/09/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst MS: NT10/MH
MSD: NT10/MH
Date Analyzed MS: 03/05/10 18:08
MSD: 03/05/10 18:38

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
cis-1,2-Dichloroethene	< 0.020 U	1.12	1.00	112%	1.08	1.00	108%	3.6%
trans-1,2-Dichloroethene	< 0.020 U	0.925	1.00	92.5%	0.920	1.00	92.0%	0.5%
Trichloroethene	< 0.020 U	1.13	1.00	113%	1.08	1.00	108%	4.5%
Tetrachloroethene	< 0.020 U	1.13	1.00	113%	1.08	1.00	108%	4.5%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-030510

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030510

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 03/09/10

Date Received: NA

Instrument/Analyst LCS: NT10/MH

Sample Amount LCS: 10.0 mL

LCSD: NT10/MH

LCSD: 10.0 mL

Date Analyzed LCS: 03/05/10 08:51

Purge Volume LCS: 10.0 mL

LCSD: 03/05/10 09:21

LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
cis-1,2-Dichloroethene	1.10	1.00	110%	1.09	1.00	109%	0.9%
trans-1,2-Dichloroethene	0.965	1.00	96.5%	0.952	1.00	95.2%	1.4%
Trichloroethene	1.13	1.00	113%	1.08	1.00	108%	4.5%
Tetrachloroethene	1.16	1.00	116%	1.12	1.00	112%	3.5%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	96.6%	97.5%
d8-Toluene	104%	101%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: POS-LLA

Lab File ID: 03050306

Lab Sample ID: MB0305

Date Analyzed: 03/05/10

Time Analyzed: 0951

Instrument ID: NT10

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01		LCS0305	03050304	0851
02		LCSD0305	03050305	0921
03	TB022310	QL34E	03050307	1037
04	CB31A022310G	QL34A	03050309	1137
05	CB100022310G	QL34B	03050310	1207
06	CB4857022310	QL34C	03050311	1238
07	CB1022310GRA	QL34D	03050312	1308
08	CB31A022310G	QL34AMS	03050322	1808
09	CB31A022310G	QL34AMSD	03050323	1838
10				
11				
12				
13				
14				
15				
16				
17				
18				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: POS-LLA SDG No.: QL34

Lab File ID: 03050302

BFB Injection Date: 03/05/10

Instrument ID: NT10

BFB Injection Time: 0721

GC Column: RTX502.2 ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.2
75	30.0 - 66.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 101.0% of mass 95	79.0
175	4.0 - 9.0% of mass 174	5.7 (7.2)1
176	93.0 - 101.0% of mass 174	76.5 (96.9)1
177	5.0 - 9.0% of mass 176	5.2 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0305	03050303	03/05/10	0807
02		LCS0305	03050304	03/05/10	0851
03		LCSD0305	03050305	03/05/10	0921
04		MB0305	03050306	03/05/10	0951
05	TB022310	QL34E	03050307	03/05/10	1037
06	ZZZZZ	ZZZZZ	03050308	03/05/10	1107
07	CB31A022310GRAB	QL34A	03050309	03/05/10	1137
08	CB100022310GRAB	QL34B	03050310	03/05/10	1207
09	CB4857022310GRAB	QL34C	03050311	03/05/10	1238
10	CB1022310GRAB	QL34D	03050312	03/05/10	1308
11	ZZZZZ	ZZZZZ	03050313	03/05/10	1338
12	ZZZZZ	ZZZZZ	03050314	03/05/10	1408
13	ZZZZZ	ZZZZZ	03050315	03/05/10	1438
14	ZZZZZ	ZZZZZ	03050316	03/05/10	1508
15	ZZZZZ	ZZZZZ	03050317	03/05/10	1539
16	ZZZZZ	ZZZZZ	03050318	03/05/10	1608
17	ZZZZZ	ZZZZZ	03050319	03/05/10	1639
18	ZZZZZ	ZZZZZ	03050320	03/05/10	1708
19	ZZZZZ	ZZZZZ	03050321	03/05/10	1738
20	CB31A022310GRAB	QL34AMS	03050322	03/05/10	1808
21	CB31A022310GRAB	QL34AMSD	03050323	03/05/10	1838
22		ZZZZZ	03050324	03/05/10	1908

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD-SNIDER

Lab Code: ARI Case No.: POS-LLA SDG No.: QL34

Lab File ID: 03050302

BFB Injection Date: 03/05/10

Instrument ID: NT10

BFB Injection Time: 0721

GC Column: RTX502.2 ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.2
75	30.0 - 66.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 101.0% of mass 95	79.0
175	4.0 - 9.0% of mass 174	5.7 (7.2)1
176	93.0 - 101.0% of mass 174	76.5 (96.9)1
177	5.0 - 9.0% of mass 176	5.2 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		ZZZZZ			
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: POS-LLA

Ical Midpoint ID: 030407

Ical Date: 03/04/10

Instrument ID: NT10

Project Run Date: 03/05/10

	IS1 (PFB)		IS2 (DFB)			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	41939	5.27	61212	5.66		
UPPER LIMIT	83878	5.77	122424	6.16		
LOWER LIMIT	20970	4.77	30606	5.16		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0205	41551	5.27	59226	5.66		
02 LCSD0305	40224	5.27	58591	5.66		
03 MB0305	43404	5.27	63335	5.66		
04 TB022310	43456	5.27	62331	5.66		
05 ZZZZZ	39428	5.27	57006	5.66		
06 CB31A022310G	40524	5.27	58287	5.66		
07 CB100022310G	39686	5.27	57733	5.66		
08 CB4857022310	39706	5.27	57668	5.66		
09 CB1022310GRA	42339	5.27	62224	5.66		
10 ZZZZZ	39313	5.27	56727	5.66		
11 ZZZZZ	41609	5.27	61054	5.66		
12 ZZZZZ	42086	5.27	61576	5.66		
13 ZZZZZ	39159	5.27	57026	5.66		
14 ZZZZZ	38042	5.27	55572	5.66		
15 ZZZZZ	38524	5.27	55987	5.66		
16 ZZZZZ	41987	5.27	61809	5.66		
17 ZZZZZ	38758	5.27	56948	5.66		
18 ZZZZZ	41145	5.27	60250	5.66		
19 CB31A022310G	40494	5.27	58919	5.66		
20 CB31A022310G	38931	5.27	56351	5.66		
21	39544	5.27	57392	5.66		
22	41797	5.27	61892	5.66		

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: POS-LLA

Ical Midpoint ID: 030407

Ical Date: 03/04/10

Instrument ID: NT10

Project Run Date: 03/04/10

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	41939	5.27	61212	5.66		
UPPER LIMIT	83878	5.77	122424	6.16		
LOWER LIMIT	20970	4.77	30606	5.16		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 ICV0304	44603	5.27	65633	5.66		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

SIM Volatile Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB

Page 1 of 1

SAMPLE

Lab Sample ID: QL34A


QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 11:37

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	99.9%

MF
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050309.d
Report Date: 08-Mar-2010 07:15

Page 1

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050309.d
Lab Smp Id: QL34A Client Smp ID: CB31A022310GRAB
Inj Date : 05-MAR-2010 11:37
Operator : JZ Inst ID: nt10.i
Smp Info : QL34A,10,10,0,
Misc Info : 10-4685
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:14 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/L)	FINAL (ug/L)	
1 Vinyl Chloride	62	1.373	1.602	(0.260)	182	11.2309	11.231(Q)	
2 1,1-Dichloroethene	96	Compound Not Detected.						
3 Trans-1,2-Dichloroethene	96	Compound Not Detected.						
4 cis-1,2-dichloroethene	96	Compound Not Detected.						
5 Benzene	78	5.186	5.177	(0.984)	2777	34.9536	34.954	
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	40524	1000.00		
\$ 7 d4-1,2-Dichloroethane	65	5.290	5.289	(1.003)	13630	1051.15	1051.2	
8 Trichloroethene	130	Compound Not Detected.						
* 9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	58287	1000.00		
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	64886	998.807	998.81	
11 Tetrachloroethene	166	Compound Not Detected.						
12 1,1,2,2-Tetrachloroethane	83	8.758	8.735	(1.547)	146	14.9799	14.980(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050309.d
Lab Smp Id: QL34A
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4685

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Client Smp ID: CB31A022310GRAB
Level: 08
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	40524	-10.05
9 1,4-Difluorobenze	66146	33073	132292	58287	-11.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

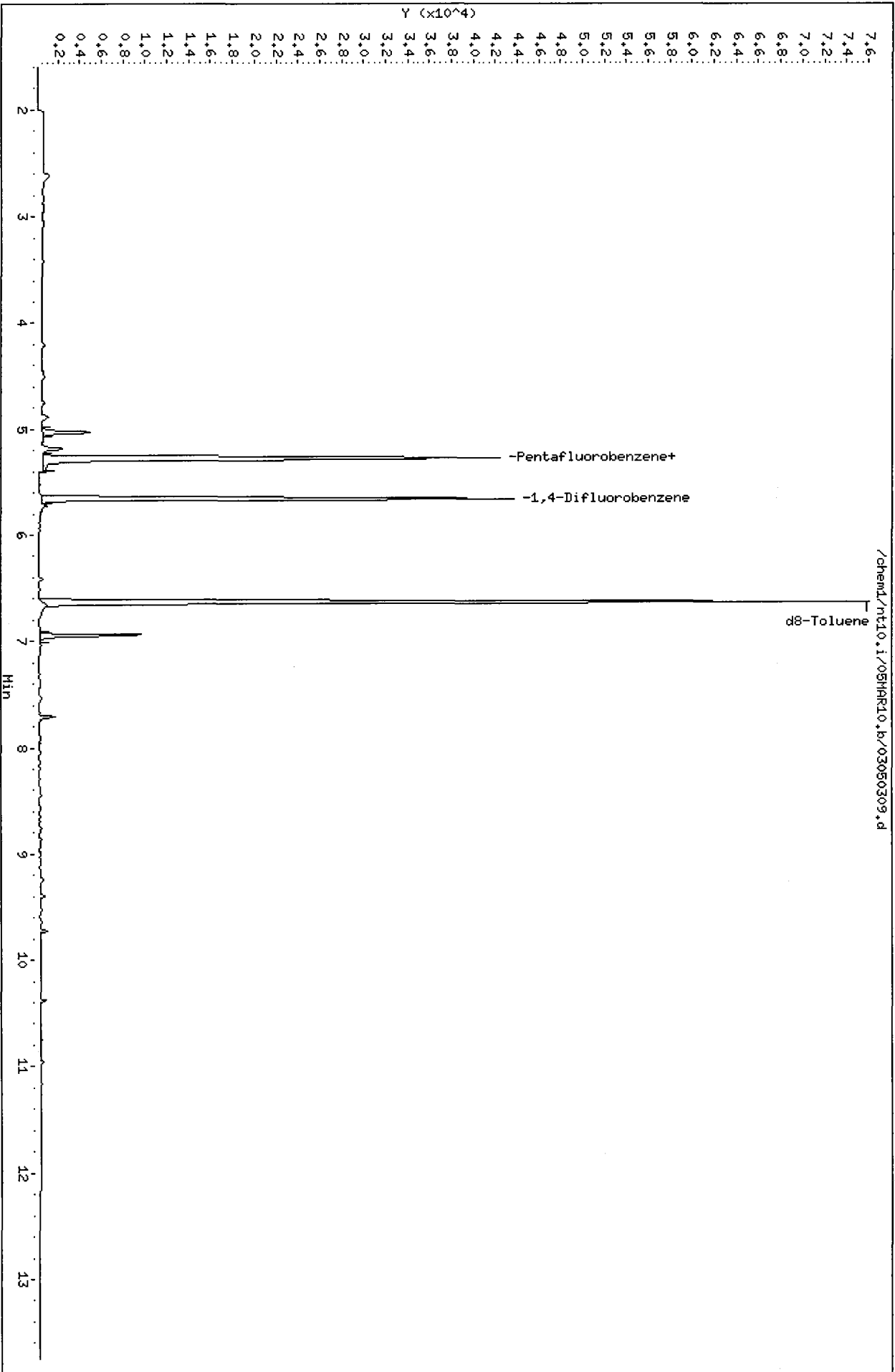
Client Name: Floyd-Snyder
Sample Matrix: LIQUID
Lab Smp Id: QL34A
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4685

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB31A022310GRAB
RECOVERY REPORT Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	1051.2	105.12	70-130
\$ 10 d8-Toluene	1000.0	998.81	99.88	70-130

Data File: /chemd/nt10.i/05HAR10.b/03050309.d
Date : 05-HAR-2010 11:37
Client ID: CB316022310CRAB
Sample Info: QL349,10,10,0,
Column phase: RTX502.2


Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



110509 10:10:10

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB100022310GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QL34B
LIMS ID: 10-4686
Matrix: Water
Data Release Authorized: 
Reported: 03/09/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/05/10 12:07

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	100%

Mr.
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050310.d
Report Date: 08-Mar-2010 07:15

Page 1

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050310.d
Lab Smp Id: QL34B Client Smp ID: CB100022310GRAB
Inj Date : 05-MAR-2010 12:07
Operator : JZ Inst ID: nt10.i
Smp Info : QL34B,10,10,0,
Misc Info : 10-4686
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:14 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.373	1.602	(0.260)	164	10.3340	10.334(Q)
2 1,1-Dichloroethene	96	Compound Not Detected.					
3 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
4 cis-1,2-dichloroethene	96	Compound Not Detected.					
5 Benzene	78	5.177	5.177	(0.982)	2541	32.6576	32.658
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	39686	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	13361	1052.11	1052.1
8 Trichloroethene	130	Compound Not Detected.					
* 9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	57733	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	64418	1001.10	1001.1
11 Tetrachloroethene	166	Compound Not Detected.					
12 1,1,2,2-Tetrachloroethane	83	8.758	8.735	(1.547)	105	10.8703	10.870

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050310.d
Lab Smp Id: QL34B
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4686
Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Client Smp ID: CB100022310GRAB
Level: 08
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	39686	-11.91
9 1,4-Difluorobenze	66146	33073	132292	57733	-12.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

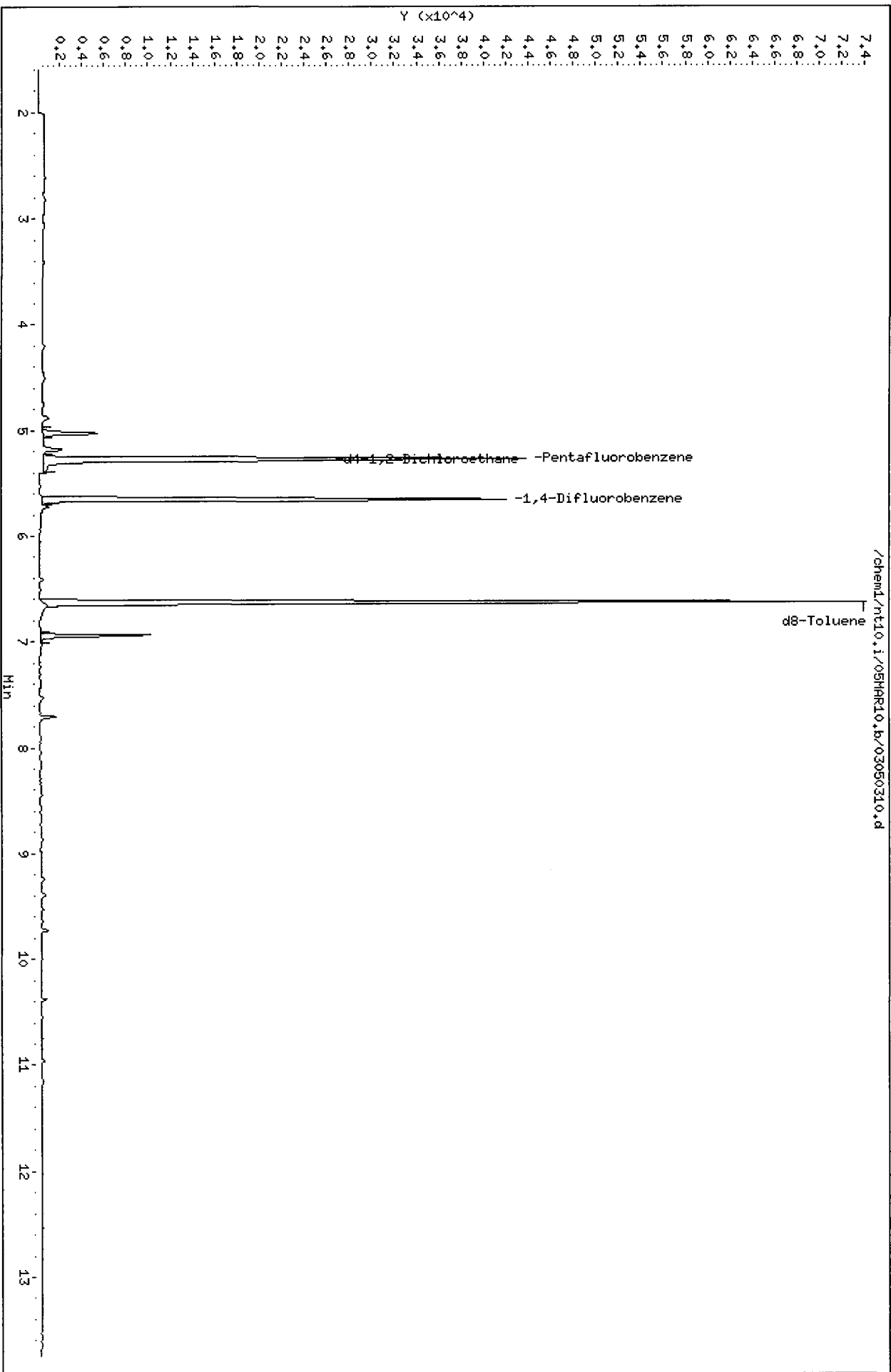
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34B
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4686

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB100022310GRAB
RECOVERY REPORT Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	1052.1	105.21	70-130
\$ 10 d8-Toluene	1000.0	1001.1	100.11	70-130

Data File: /chem1/nt10.i/05MAR10.b/03050310.d
Date : 05-MAR-2010 12:07
Client ID: CB100022310GRAB
Sample Info: QL34B,10,10,0,
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB4857022310GRAB
Page 1 of 1 SAMPLE

Lab Sample ID: QL34C
LIMS ID: 10-4687
Matrix: Water
Data Release Authorized: *RB*
Reported: 03/09/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/05/10 12:38

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	99.8%

3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050311.d
Report Date: 08-Mar-2010 07:15

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050311.d
Lab Smp Id: QL34C Client Smp ID: CB4857022310GRAB
Inj Date : 05-MAR-2010 12:38
Operator : JZ Inst ID: nt10.i
Smp Info : QL34C,10,10,0,
Misc Info : 10-4687
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:14 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
3 Trans-1,2-Dichloroethene	96						
4 cis-1,2-dichloroethene	96						
5 Benzene	78	5.186	5.177	(0.984)	2175	27.9413	27.941
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	39706	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.290	5.289	(1.003)	13605	1070.78	1070.8
8 Trichloroethene	130						
* 9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	57668	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	64136	997.854	997.85
11 Tetrachloroethene	166						
12 1,1,2,2-Tetrachloroethane	83	8.758	8.735	(1.547)	112	11.6472	11.647(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i	Calibration Date: 05-MAR-2010
Lab File ID: 03050311.d	Calibration Time: 08:07
Lab Smp Id: QL34C	Client Smp ID: CB4857022310GRAB
Analysis Type: VOA	Level: 08
Quant Type: ISTD	Sample Type: Water
Operator: JZ	
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m	
Misc Info: 10-4687	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	39706	-11.87
9 1,4-Difluorobenze	66146	33073	132292	57668	-12.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

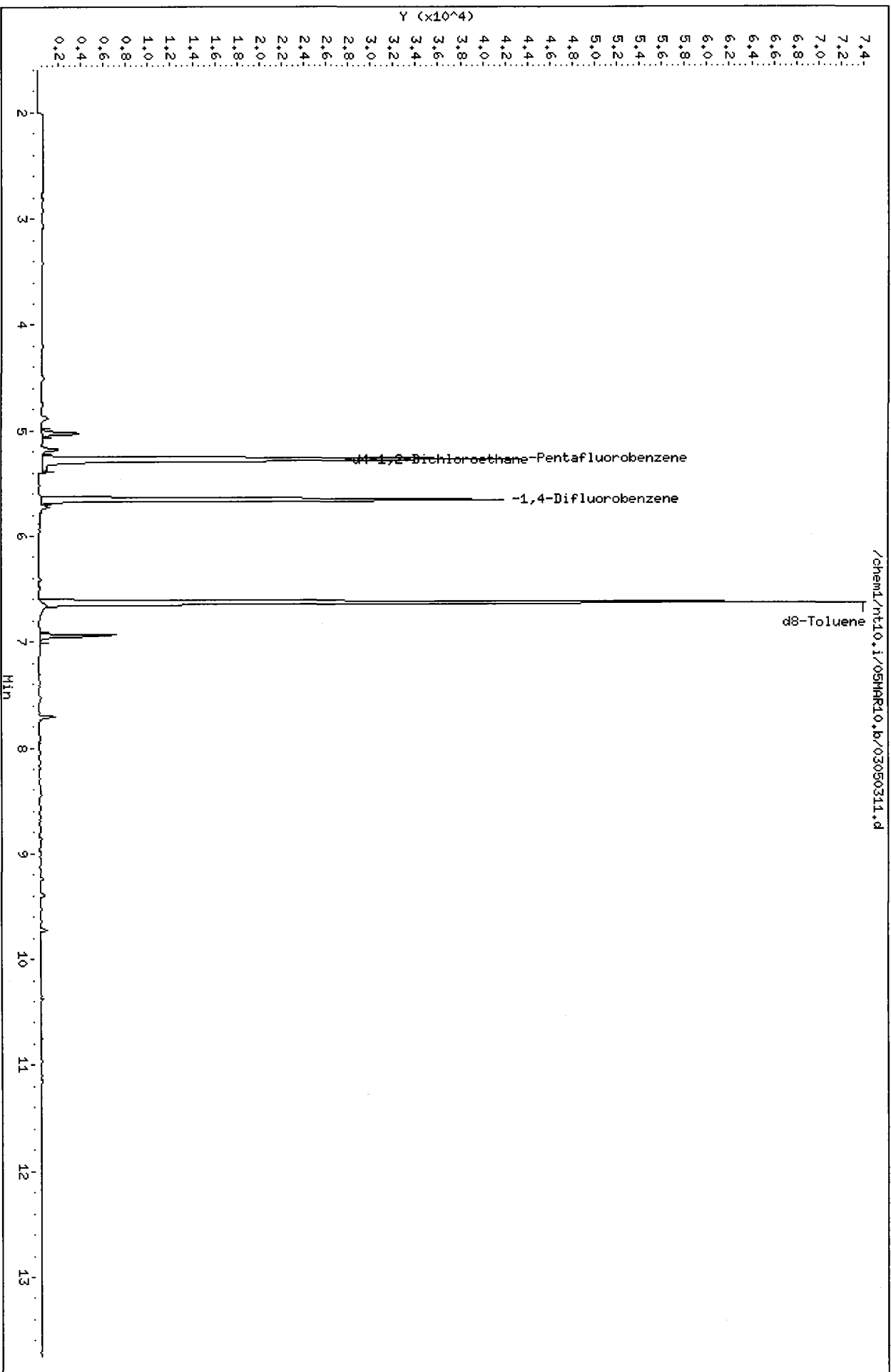
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34C
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4687

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB4857022310GRAB
RECOVERY REPORT Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	1070.8	107.08	70-130
\$ 10 d8-Toluene	1000.0	997.85	99.79	70-130

Data File: /chem1/nt10.i/05MAR10.b/03050311.d
Date : 05-MAR-2010 12:38
Client ID: CB48570223100RA8
Sample Info: QL34C.10,10,0,
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB1022310GRAB

Page 1 of 1

SAMPLE

Lab Sample ID: QL34D

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4688

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *B*

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 13:08

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	99.2%

M
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050312.d
Report Date: 08-Mar-2010 07:15

Page 1

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050312.d
Lab Smp Id: QL34D Client Smp ID: CB1022310GRAB
Inj Date : 05-MAR-2010 13:08
Operator : JZ Inst ID: nt10.i
Smp Info : QL34D,10,10,0,
Misc Info : 10-4688
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:14 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
3 Trans-1,2-Dichloroethene	96						
4 cis-1,2-dichloroethene	96						
5 Benzene	78	5.186	5.177	(0.984)	1077	12.9769	12.977
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	42339	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	14654	1081.63	1081.6
8 Trichloroethene	130						
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	62224	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	68816	992.265	992.26
11 Tetrachloroethene	166						
12 1,1,2,2-Tetrachloroethane	83						

QL34:00566

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050312.d
Lab Smp Id: QL34D
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4688

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Client Smp ID: CB1022310GRAB
Level: 08
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	42339	-6.03
9 1,4-Difluorobenze	66146	33073	132292	62224	-5.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34D
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4688

Client SDG: QL34
Fraction: VOA
Client Smp ID: CB1022310GRAB
RECOVERY REPORT Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	1081.6	108.16	70-130
\$ 10 d8-Toluene	1000.0	992.26	99.23	70-130

Data File: /chem1/nt10.i/05HAR10.b/03050312.d

Date : 05-HAR-2010 13:08

Client ID: CB10223106RAB

Sample Info: QL34D,10,10,0,

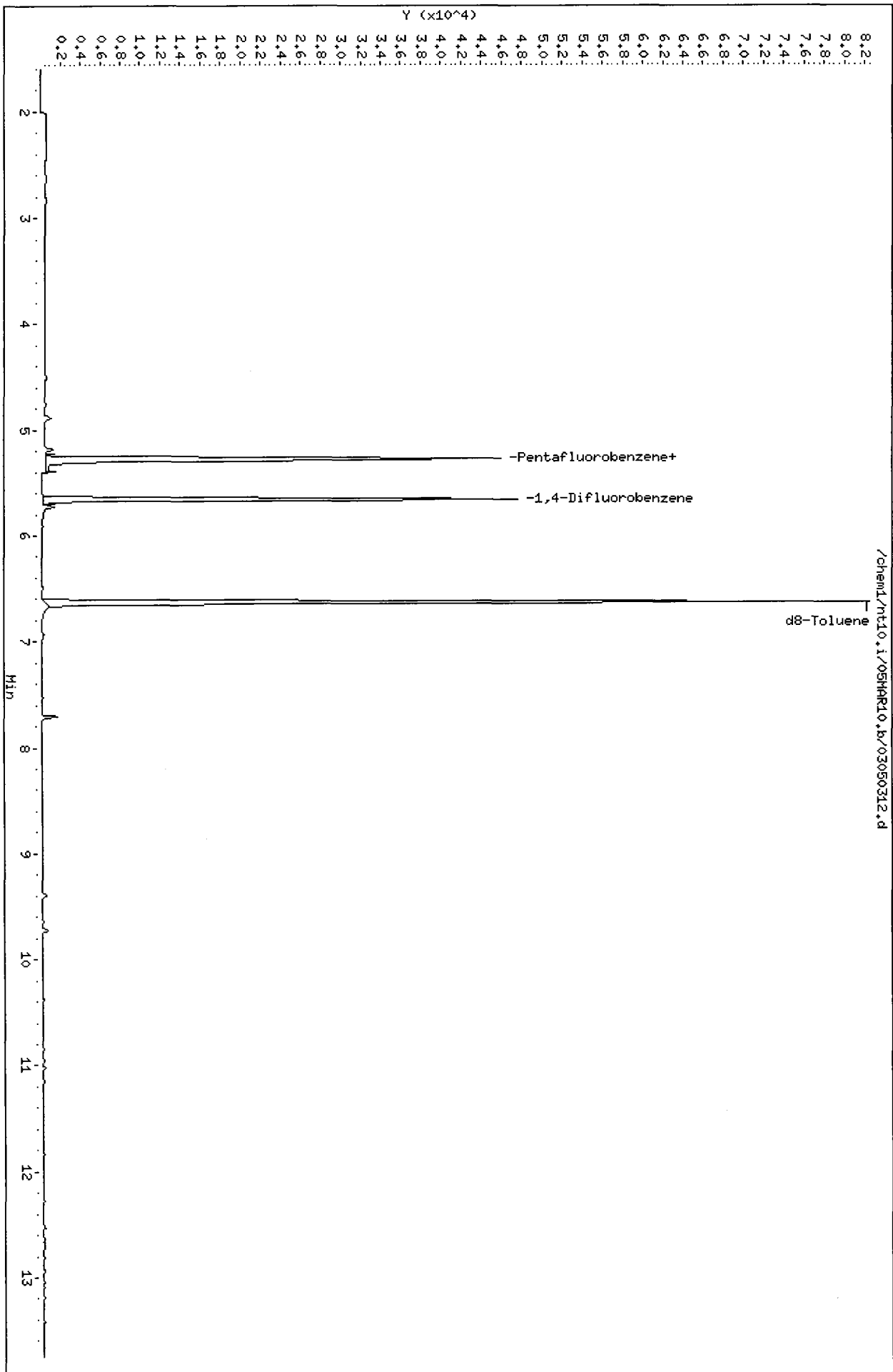
Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ

Column diameter: 0.18

Page 4



QL34 : 00550

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB022310
Page 1 of 1 Trip Blank

Lab Sample ID: QL34E

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4689

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 10:37

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	98.0%

3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050307.d
Report Date: 08-Mar-2010 07:15

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050307.d
Lab Smp Id: QL34E Client Smp ID: TB022310
Inj Date : 05-MAR-2010 10:37
Operator : JZ Inst ID: nt10.i
Smp Info : QL34E,10,10,0,
Misc Info : 10-4689
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:14 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62						
2 1,1-Dichloroethene	96						
3 Trans-1,2-Dichloroethene	96						
4 cis-1,2-dichloroethene	96	4.511	4.502	(0.856)	199	10.0700	10.070
5 Benzene	78						
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	43456	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	13960	1003.94	1003.9
8 Trichloroethene	130						
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	62331	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	68051	979.550	979.55
11 Tetrachloroethene	166						
12 1,1,2,2-Tetrachloroethane	83						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050307.d
Lab Smp Id: QL34E
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4689

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Client Smp ID: TB022310
Level: 08
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	43456	-3.55
9 1,4-Difluorobenze	66146	33073	132292	62331	-5.77

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

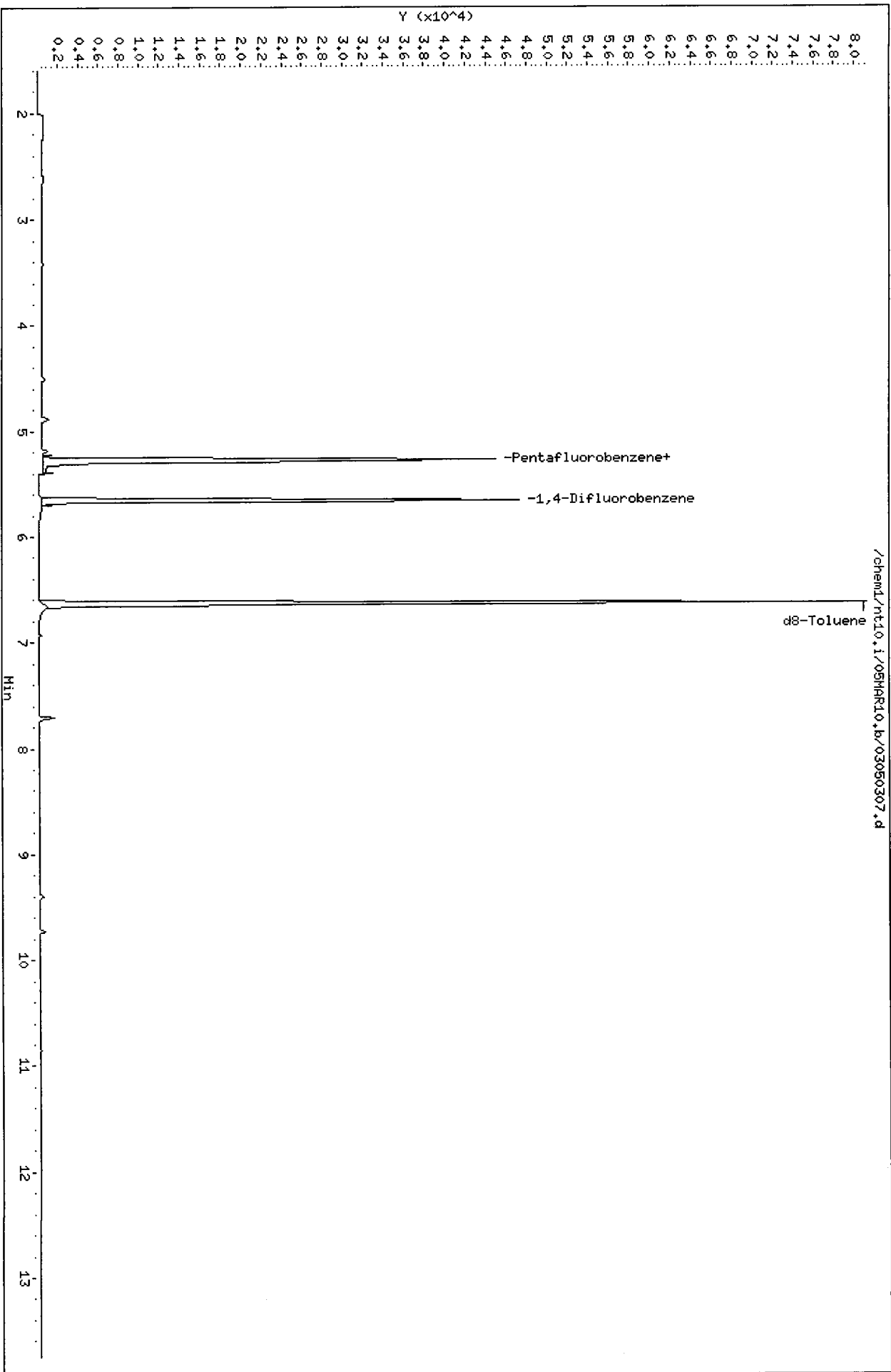
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34E
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4689

Client SDG: QL34
Fraction: VOA
Client Smp ID: TB022310
RECOVERY REPORT Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	1003.9	100.39	70-130
\$ 10 d8-Toluene	1000.0	979.55	97.96	70-130

Data File: /chem1/nt10.i/05HAR10.b/03050307.d
Date: 05-HAR-2010 10:37
Client ID: TB022310
Sample Info: QL34E,10,10,0,
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



SIM Volatile Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: POS-LLA

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF20: 030404

RF50: 030405

RF100: 030406

RF500: 030407

RF1000: 030408

COMPOUND	RF20	RF50	RF100	RF500	RF1000
Vinyl Chloride	0.663	0.578	0.408	0.475	0.394
1,1-Dichloroethene	0.670	0.650	0.427	0.515	0.470
Trans-1,2-Dichloroethene	0.672	0.631	0.449	0.535	0.470
cis-1,2-dichloroethene	0.918	0.701	0.494	0.533	0.484
Benzene	3.379	2.807	1.957	2.193	2.068
Trichloroethene	0.616	0.517	0.391	0.415	0.384
Tetrachloroethene	0.649	0.556	0.410	0.440	0.411
1,1,2,2-Tetrachloroethane	0.221	0.202	0.148	0.170	0.149
d4-1,2-Dichloroethane	0.328	0.335	0.330	0.316	0.306
d8-Toluene	1.110	1.110	1.112	1.118	1.115

FORM VI VOA

QL34 : 00576

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: POS-LLA

Instrument ID: NT10

Calibration Date: 03/04/10

LAB FILE ID: RF2000: 030409 RF4000: 030410

COMPOUND	RF2000	RF4000
Vinyl Chloride	0.443	0.388
1,1-Dichloroethene	0.482	0.417
Trans-1,2-Dichloroethene	0.471	0.443
cis-1,2-dichloroethene	0.469	0.449
Benzene	1.959	1.950
Trichloroethene	0.364	0.357
Tetrachloroethene	0.382	0.377
1,1,2,2-Tetrachloroethane	0.149	0.138
d4-1,2-Dichloroethane	0.304	
d8-Toluene	1.123	

FORM VI VOA

QL34:00577

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: POS-LLA

Instrument ID: NT10

Calibration Date: 03/04/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Vinyl Chloride	LINR		0.9944
1,1-Dichloroethene	AVRG	0.519	19.7
Trans-1,2-Dichloroethene	AVRG	0.524	17.7
cis-1,2-dichloroethene	LINR		0.9986
Benzene	LINR		0.9994
Trichloroethene	LINR		0.9990
Tetrachloroethene	LINR		0.9989
1,1,2,2-Tetrachloroethane	AVRG	0.168	18.8
d4-1,2-Dichloroethane	AVRG	0.320	4.1
d8-Toluene	AVRG	1.114	0.5

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM VI VOA

QL34:00578

Analytical Resources, Inc.
INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 13:56
 End Cal Date : 04-MAR-2010 16:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/04MAR10.b/SIM030410.m
 Cal Date : 05-Mar-2010 06:46 monicah

Calibration File Names:

- Level 1: /chem1/nt10.i/04MAR10.b/030404.d
- Level 2: /chem1/nt10.i/04MAR10.b/030405.d
- Level 3: /chem1/nt10.i/04MAR10.b/030406.d
- Level 4: /chem1/nt10.i/04MAR10.b/030407.d
- Level 5: /chem1/nt10.i/04MAR10.b/030408.d
- Level 6: /chem1/nt10.i/04MAR10.b/030409.d
- Level 7: /chem1/nt10.i/04MAR10.b/030410.d

Compound	20		50		100		500		1000		2000		Curve	b	Coefficients		RSD or R ²
	Level 1	Level 7	Level 2	Level 7	Level 3	Level 7	Level 4	Level 7	Level 5	Level 7	Level 6	Level 7			m1	m2	
1 Vinyl Chloride	514 69910		1208		1738		9953		17765		37269		LINR	0.000e+00	0.40075		0.99444
2 1,1-Dichloroethene	0.56988 0.41692		0.65007		0.42691		0.51508		0.46981		0.48224		AVRG		0.51870		19.69733
3 Trans-1,2-Dichloroethene	0.67247 0.44279		0.63141		0.44944		0.53530		0.46995		0.47062		AVRG		0.52457		17.68391
4 cis-1,2-dichloroethene	711 81076		1466		2103		11178		21809		39418		LINR	0.000e+00	0.45616		0.99856

050310

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 13:56
 End Cal Date : 04-MAR-2010 16:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/04MAR10.b/SIM030410.m
 Cal Date : 05-Mar-2010 06:46 monicah

Compound	20		50		100		500		1000		2000		Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2					
4000 Level 7															
5 Benzene	2618	5869	8340	45995	93191	164737	LINR	0.000e+00	1.96077						0.99940
8 Trichloroethene	684	1568	2405	12701	25380	44730	LINR	0.000e+00	0.36066						0.99905
11 Tetrachloroethene	721	1684	2519	13470	27189	47025	LINR	0.000e+00	0.38095						0.99887
12 1,1,2,2-Tetrachloroethane	0.22061	0.20156	0.14770	0.16990	0.14881	0.14899	AVRG								18.75315
7 d4-1,2-Dichloroethane	0.32795	0.33486	0.33040	0.31644	0.30621	0.30410	AVRG								4.06977
10 d8-Toluene	1.10953	1.11030	1.11180	1.11761	1.11475	1.12338	AVRG								0.47161

05030410

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2010 13:56
 End Cal Date : 04-MAR-2010 16:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt10.i/04MAR10.b/SIM030410.m
 Cal Date : 05-Mar-2010 06:46 monicah

Average %RSD Results.

Calculated Average %RSD = 24.01412
Maximum Average %RSD = 20.00000
* Failed Average %RSD Test.

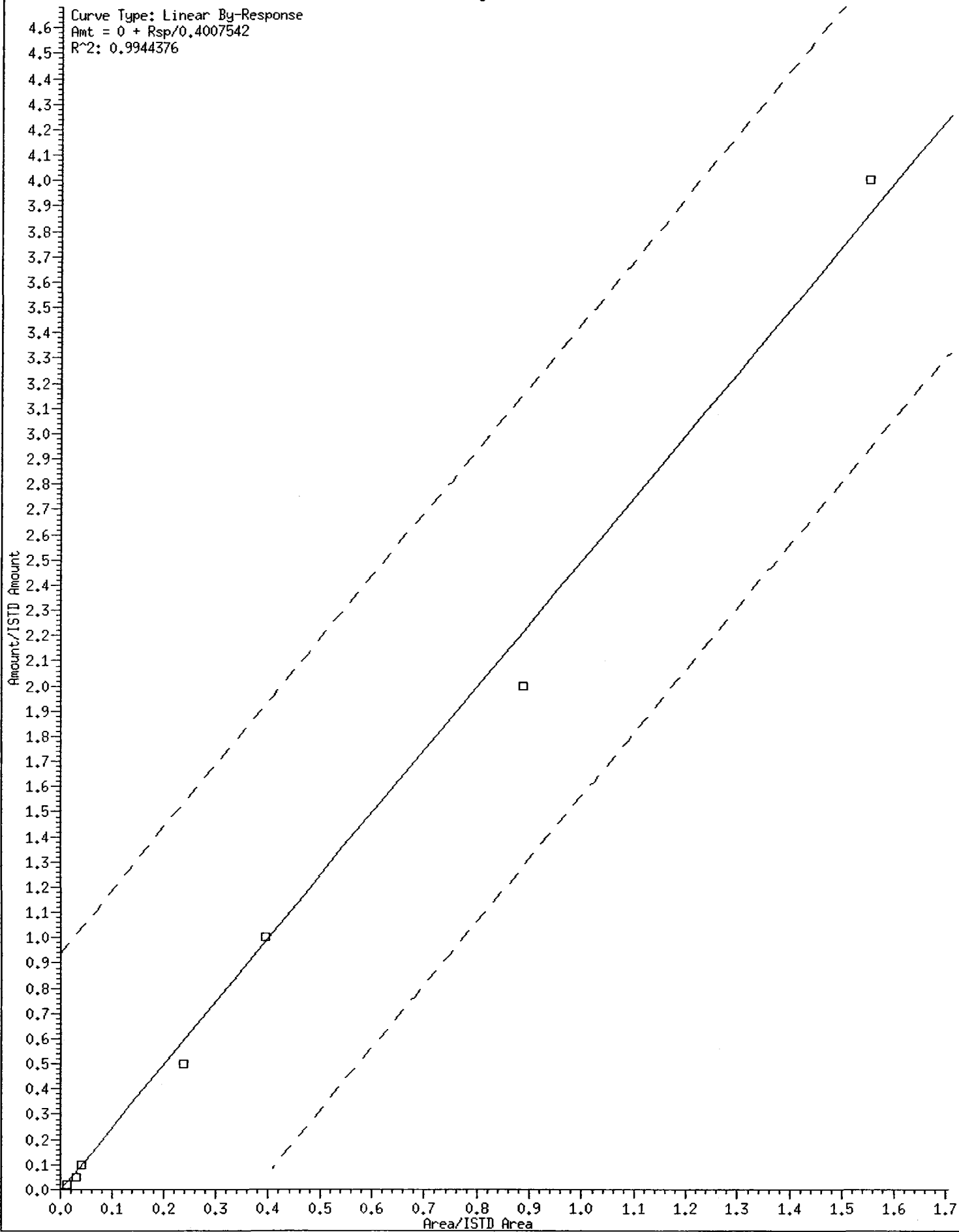
Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

1 Vinyl Chloride

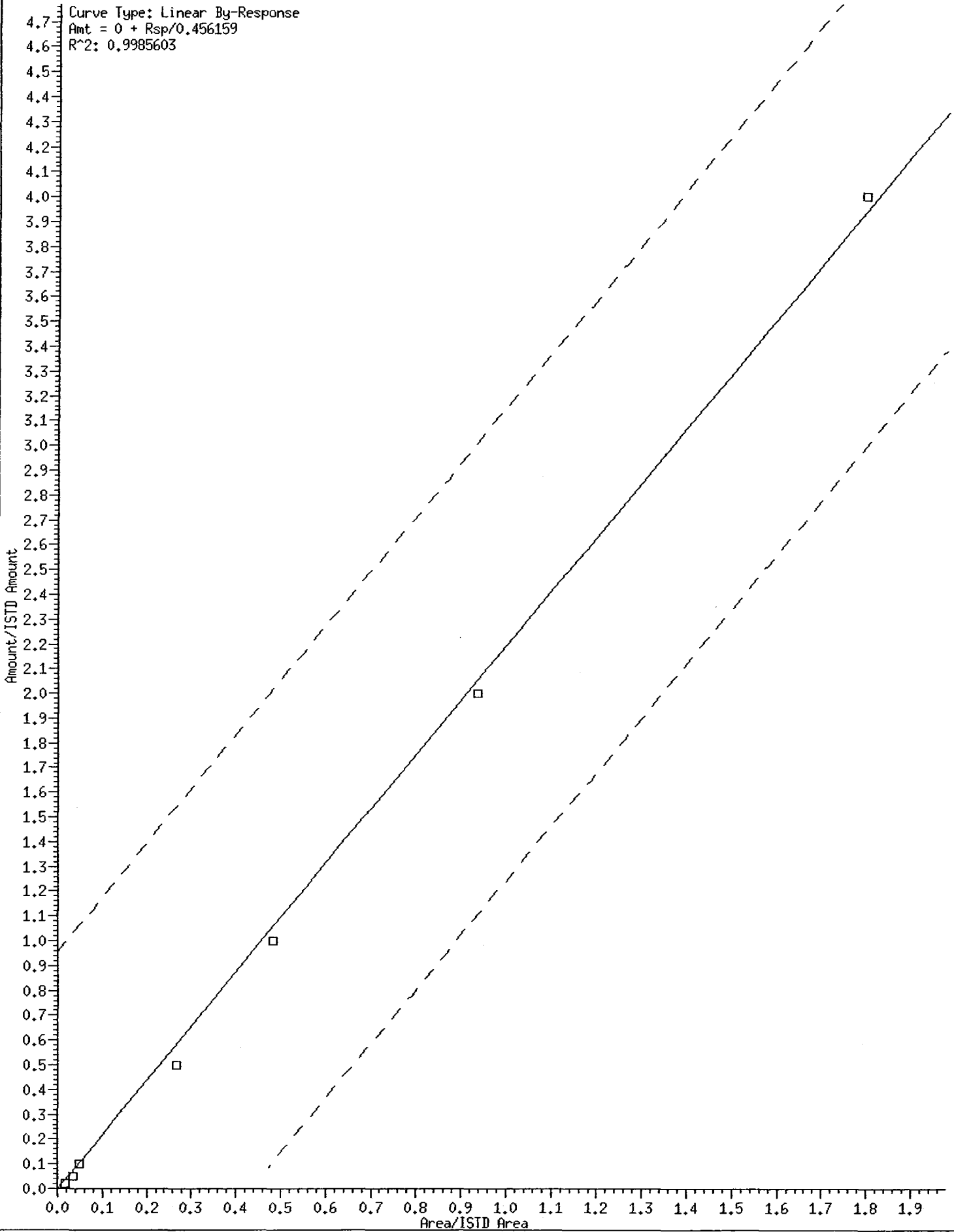
Curve Type: Linear By-Response

Amt = 0 + Rsp/0.4007542

R²: 0.9944376



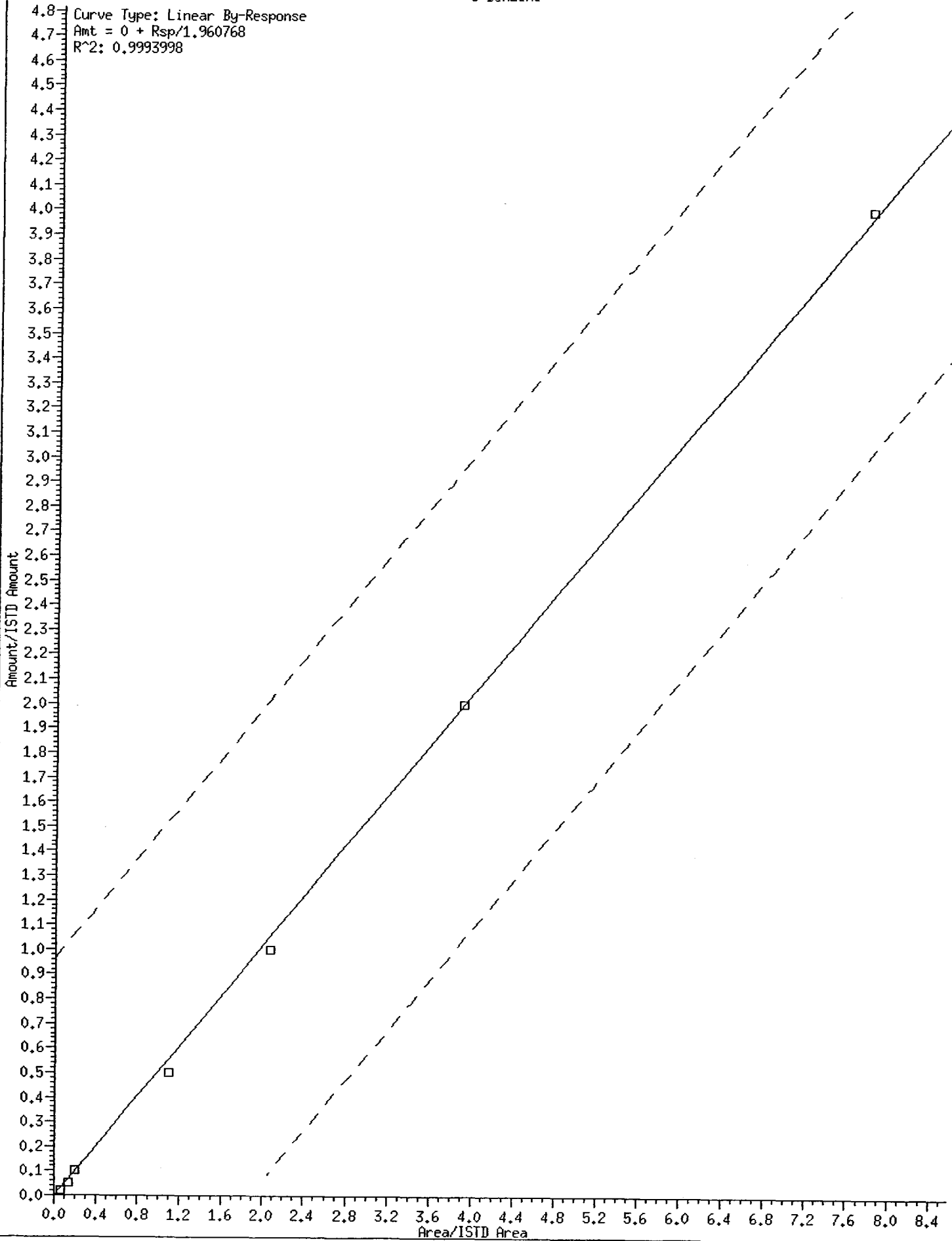
4 cis-1,2-dichloroethene



5 Benzene

Curve Type: Linear By-Response
Amt = 0 + Rsp/1.960768
R²: 0.9993998

Amount/ISTD Amount

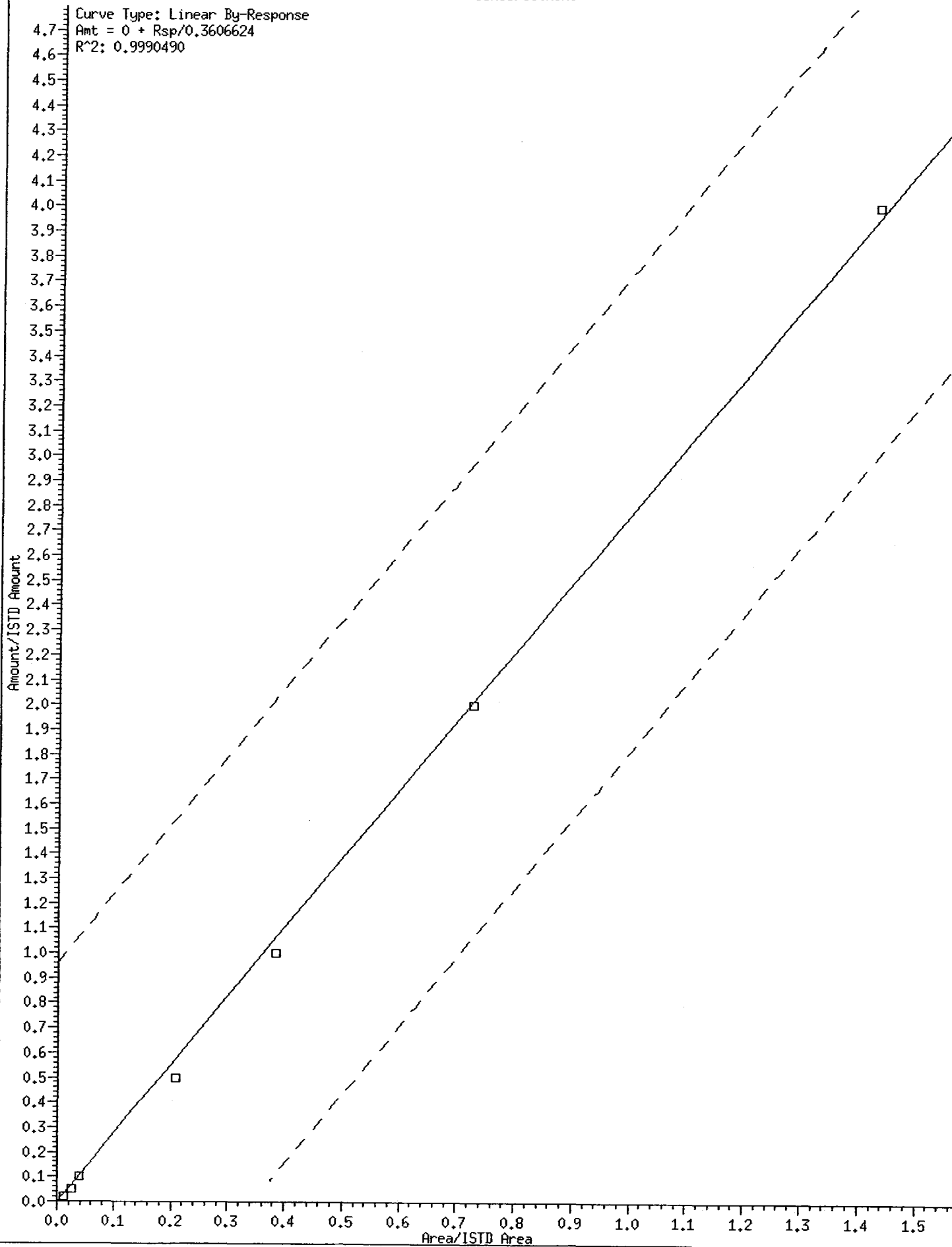


8 Trichloroethene

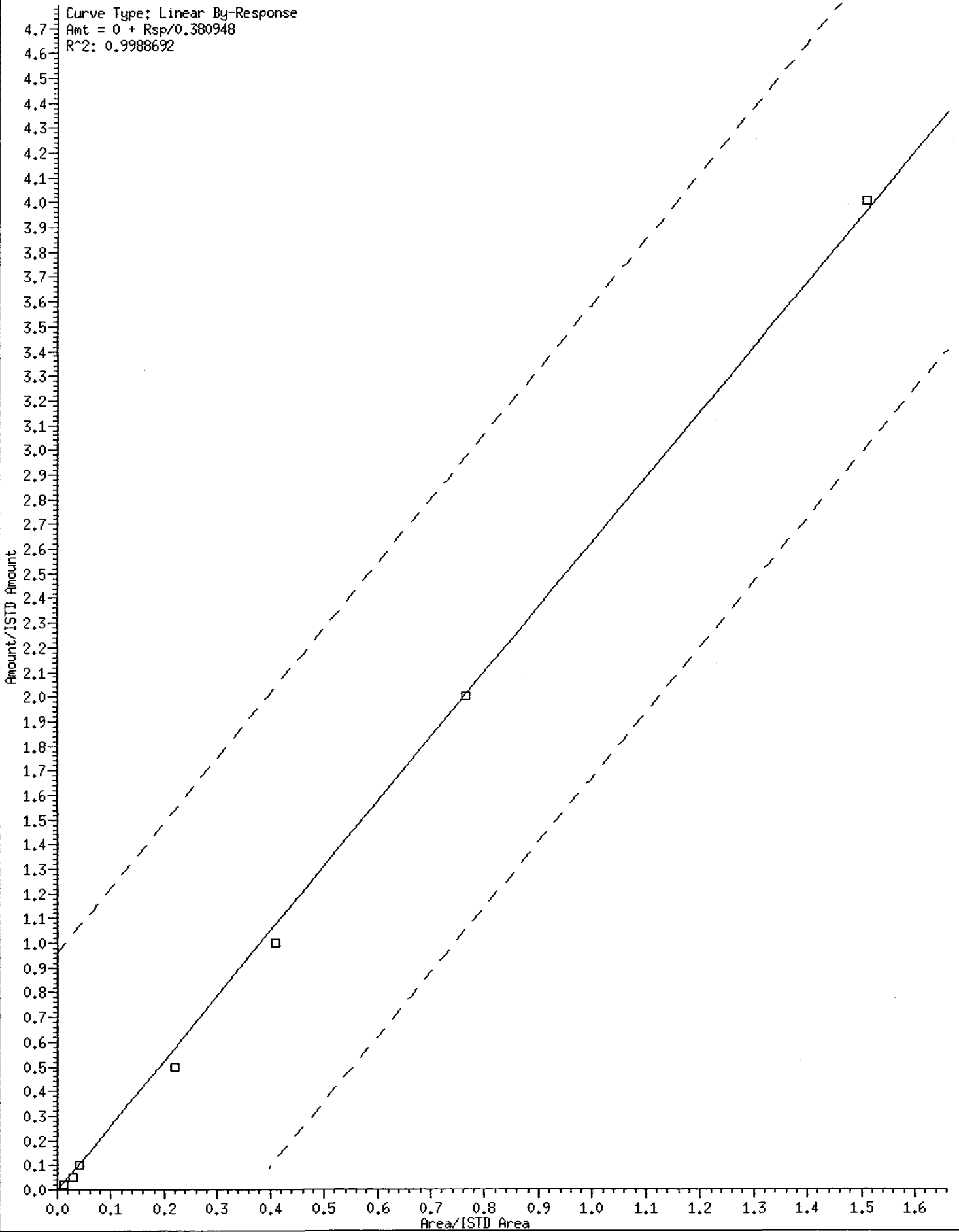
Curve Type: Linear By-Response

Amt = 0 + Rsp/0.3606624

R²: 0.9990490



11 Tetrachloroethene



Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030404.d
Lab Smp Id: 00200304
Inj Date : 04-MAR-2010 13:56
Operator : JZ
Smp Info : 00200304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah
Cal Date : 04-MAR-2010 13:56
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030404.d
Calibration Sample, Level: 1
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	514	20.0000	33.109
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	519	20.0000	25.829
3 Trans-1,2-Dichloroethene	96	3.420	3.421	(0.649)	521	20.0000	25.639
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	711	20.0000	40.236
5 Benzene	78	5.186	5.186	(0.984)	2618	20.0000	34.467
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	38738	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	12704	1000.00	1024.9
8 Trichloroethene	130	5.619	5.619	(0.993)	684	20.0000	34.154
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	55529	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	61611	1000.00	995.49
11 Tetrachloroethene	166	6.937	6.925	(1.226)	721	20.0000	34.084
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	245	20.0000	26.276

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 030404.d
 Lab Smp Id: 00200304
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 15:57
 Level: 15
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	38738	-14.02
9 1,4-Difluorobenze	66146	33073	132292	55529	-16.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HAR10.b/030404.d

Date: 04-HAR-2010 13:56

Client ID:

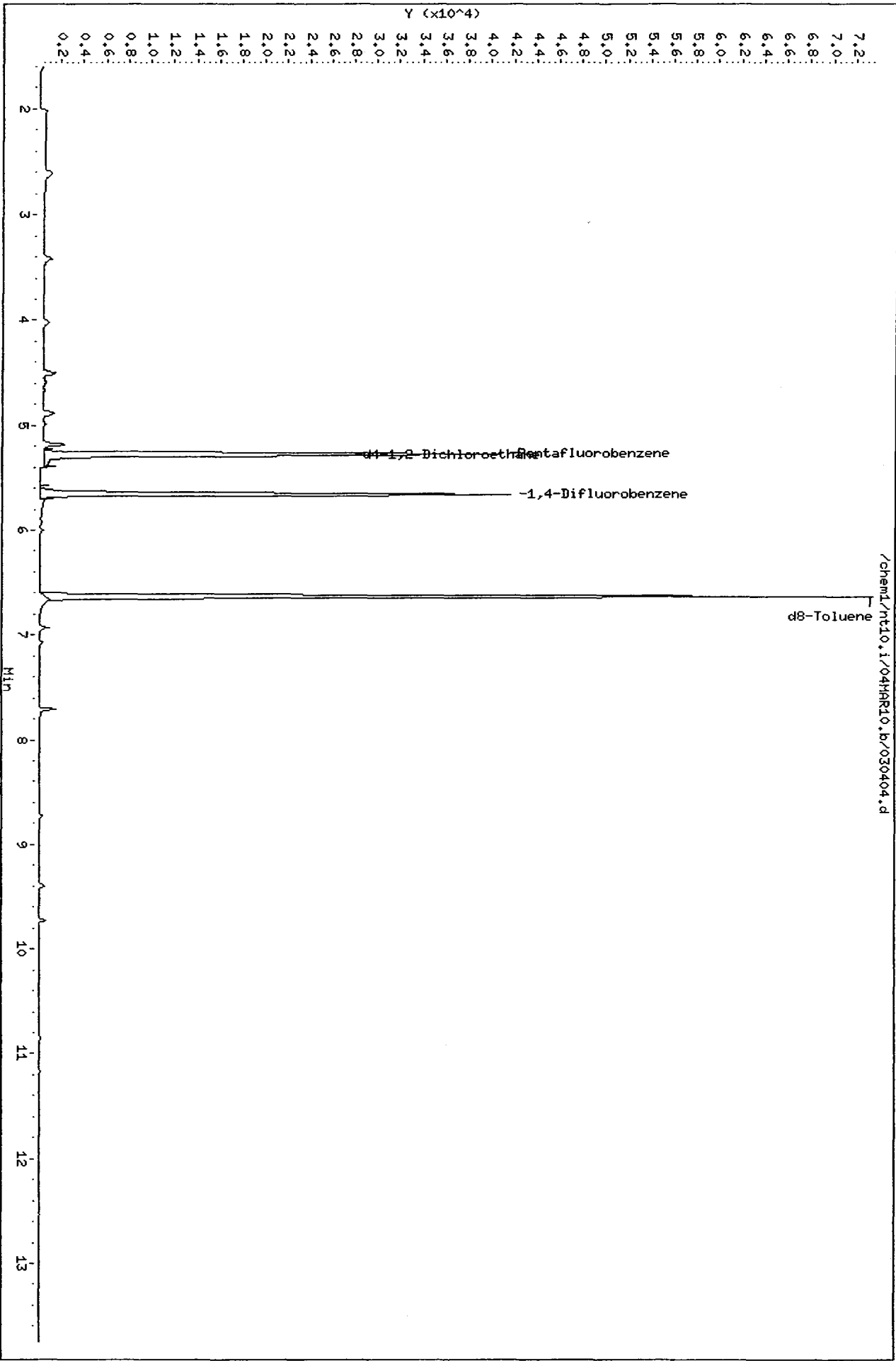
Sample Info: 00200304,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ

Column diameter: 0.18



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3/8/10

Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030405.d
Lab Smp Id: 00500304
Inj Date : 04-MAR-2010 14:27
Operator : JZ
Smp Info : 00500304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah
Cal Date : 04-MAR-2010 14:27
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030405.d
Calibration Sample, Level: 2
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	1208	50.0000	72.094
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	1359	50.0000	62.663
3 Trans-1,2-Dichloroethene	96	3.421	3.421	(0.649)	1320	50.0000	60.184
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	1466	50.0000	76.865
5 Benzene	78	5.186	5.186	(0.984)	5869	50.0000	71.589
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	41811	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	14001	1000.00	1046.5
8 Trichloroethene	130	5.619	5.619	(0.993)	1568	50.0000	71.710
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	60627	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	67314	1000.00	996.18
11 Tetrachloroethene	166	6.937	6.925	(1.226)	1684	50.0000	72.914
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	611	50.0000	60.019

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030405.d
Lab Smp Id: 00500304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	41811	-7.20
9 1,4-Difluorobenze	66146	33073	132292	60627	-8.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HRR10.b/030405.d

Date: 04-MAR-2010 14:27

Client ID:

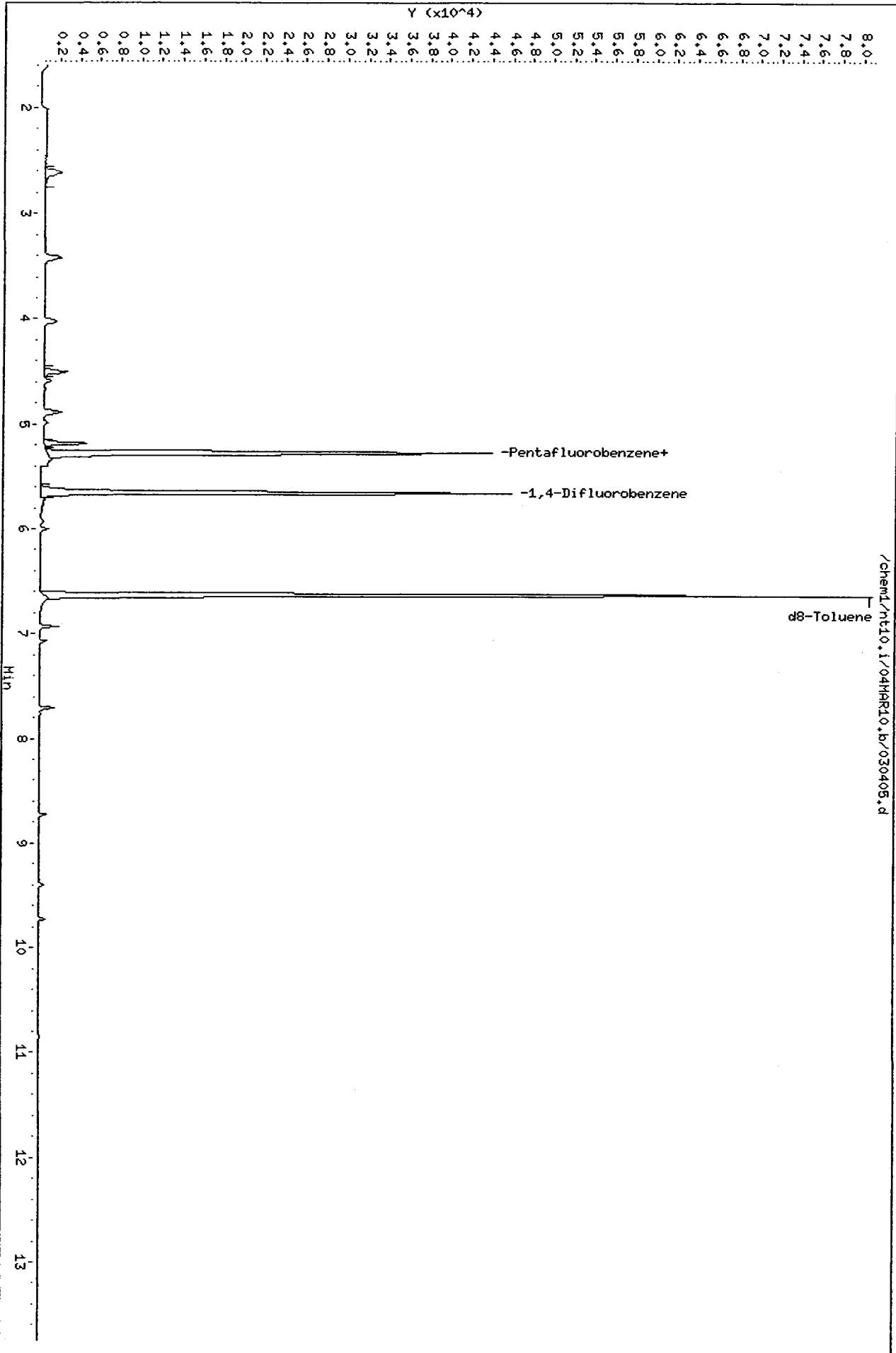
Sample Info: 00500304,10,10,0

Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ

Column diameter: 0.18



00500304 : 010321

Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030406.d
Lab Smp Id: 01000304
Inj Date : 04-MAR-2010 14:57
Operator : JZ
Smp Info : 01000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah
Cal Date : 04-MAR-2010 14:57
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030406.d
Calibration Sample, Level: 3
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)
1 Vinyl Chloride	62		1.602	1.614	(0.304)	1738	100.000	101.78
2 1,1-Dichloroethene	96		2.607	2.616	(0.494)	1819	100.000	82.303
3 Trans-1,2-Dichloroethene	96		3.420	3.421	(0.649)	1915	100.000	85.677
4 cis-1,2-dichloroethene	96		4.502	4.502	(0.854)	2103	100.000	108.20
5 Benzene	78		5.177	5.186	(0.982)	8340	100.000	99.825
* 6 Pentafluorobenzene	168		5.272	5.272	(1.000)	42609	1000.00	
\$ 7 d4-1,2-Dichloroethane	65		5.289	5.290	(1.003)	14078	1000.00	1032.5
8 Trichloroethene	130		5.619	5.619	(0.993)	2405	100.000	108.47
* 9 1,4-Difluorobenzene	114		5.660	5.661	(1.000)	61477	1000.00	
\$ 10 d8-Toluene	98		6.632	6.632	(1.172)	68350	1000.00	997.52
11 Tetrachloroethene	166		6.925	6.925	(1.223)	2519	100.000	107.56
12 1,1,2,2-Tetrachloroethane	83		8.723	8.723	(1.541)	908	100.000	87.961

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030406.d
Lab Smp Id: 01000304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57
Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	42609	-5.43
9 1,4-Difluorobenze	66146	33073	132292	61477	-7.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.1/04HAR10.b/030406.d
Date: 04-HAR-2010 14:57

Client ID:

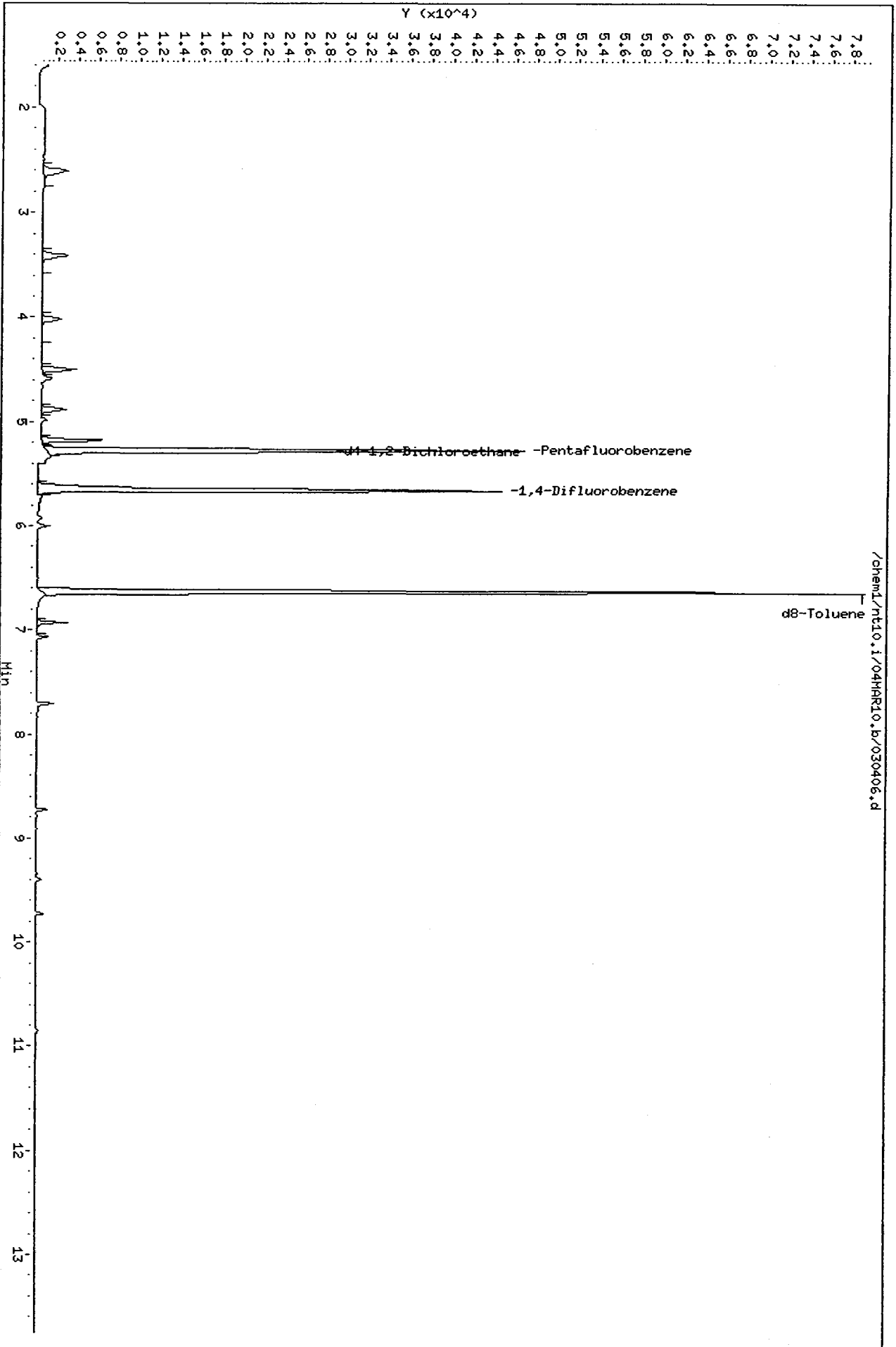
Sample Info: 01000304,10,10,0

Column phase: RTX502.2

Instrument: nt10.1

Operator: JZ

Column diameter: 0.18



0137 : 09595

3/8/1

Data File: /chem1/nt10.i/04MAR10.b/030407.d
Report Date: 08-Mar-2010 13:31

Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030407.d
Lab Smp Id: 05000304
Inj Date : 04-MAR-2010 15:27
Operator : JZ
Smp Info : 05000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah
Cal Date : 04-MAR-2010 15:27
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030407.d
Calibration Sample, Level: 4
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.602	1.614	(0.304)	9953	500.000	592.19
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	10801	500.000	496.51
3 Trans-1,2-Dichloroethene	96	3.421	3.421	(0.649)	11225	500.000	510.23
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	11178	500.000	584.29
5 Benzene	78	5.186	5.186	(0.984)	45995	500.000	559.33
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	41939	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	13271	1000.00	988.89
8 Trichloroethene	130	5.619	5.619	(0.993)	12701	500.000	575.31
* 9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	61212	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	68411	1000.00	1002.7
11 Tetrachloroethene	166	6.925	6.925	(1.223)	13470	500.000	577.65
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	5200	500.000	505.92

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 030407.d
 Lab Smp Id: 05000304
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 15:57

Level: 15
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	41939	-6.91
9 1,4-Difluorobenze	66146	33073	132292	61212	-7.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.1/04HAR10.b/030407.d

Date: 04-HAR-2010 15:27

Client ID:

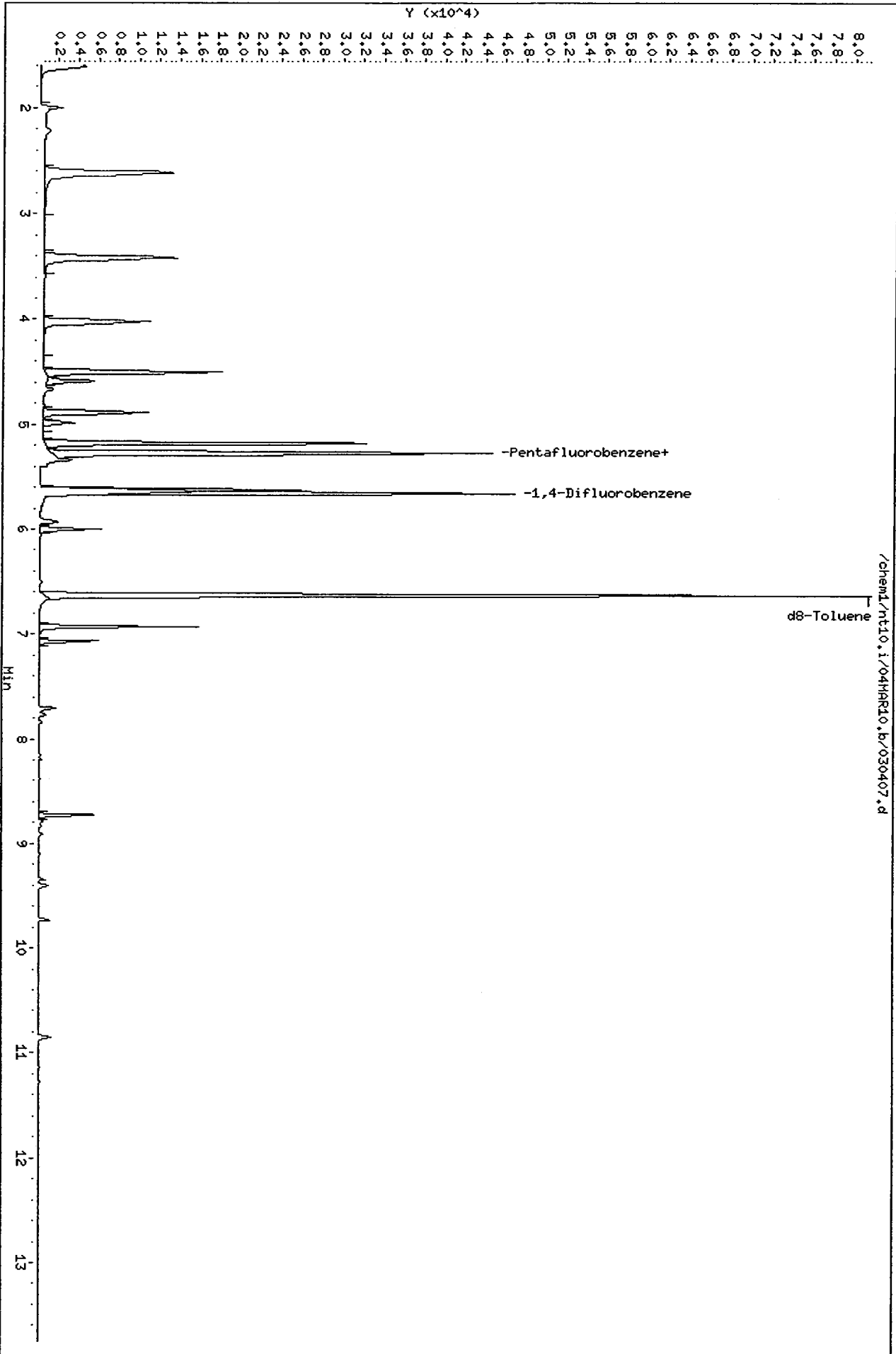
Sample Info: 05000304,10,10,0

Column phase: RTX502.2

Instrument: nt10.1

Operator: JZ

Column diameter: 0.18



05000304 0710

Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030408.d
Lab Smp Id: 10000304
Inj Date : 04-MAR-2010 15:57
Operator : JZ
Smp Info : 10000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah
Cal Date : 04-MAR-2010 15:57
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030408.d
Calibration Sample, Level: 5
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	17765	1000.00	983.91
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	21167	1000.00	905.75
3 Trans-1,2-Dichloroethene	96	3.421	3.421	(0.649)	21173	1000.00	895.88
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	21809	1000.00	1061.2
5 Benzene	78	5.186	5.186	(0.984)	93191	1000.00	1054.9
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	45054	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.290	5.290	(1.003)	13796	1000.00	956.93
8 Trichloroethene	130	5.619	5.619	(0.993)	25380	1000.00	1063.9
* 9 1,4-Difluorobenzene	114	5.661	5.661	(1.000)	66146	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	73736	1000.00	1000.2
11 Tetrachloroethene	166	6.925	6.925	(1.223)	27189	1000.00	1079.0
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	9843	1000.00	886.22

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 030408.d
 Lab Smp Id: 10000304
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 15:57
 Level: 15
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

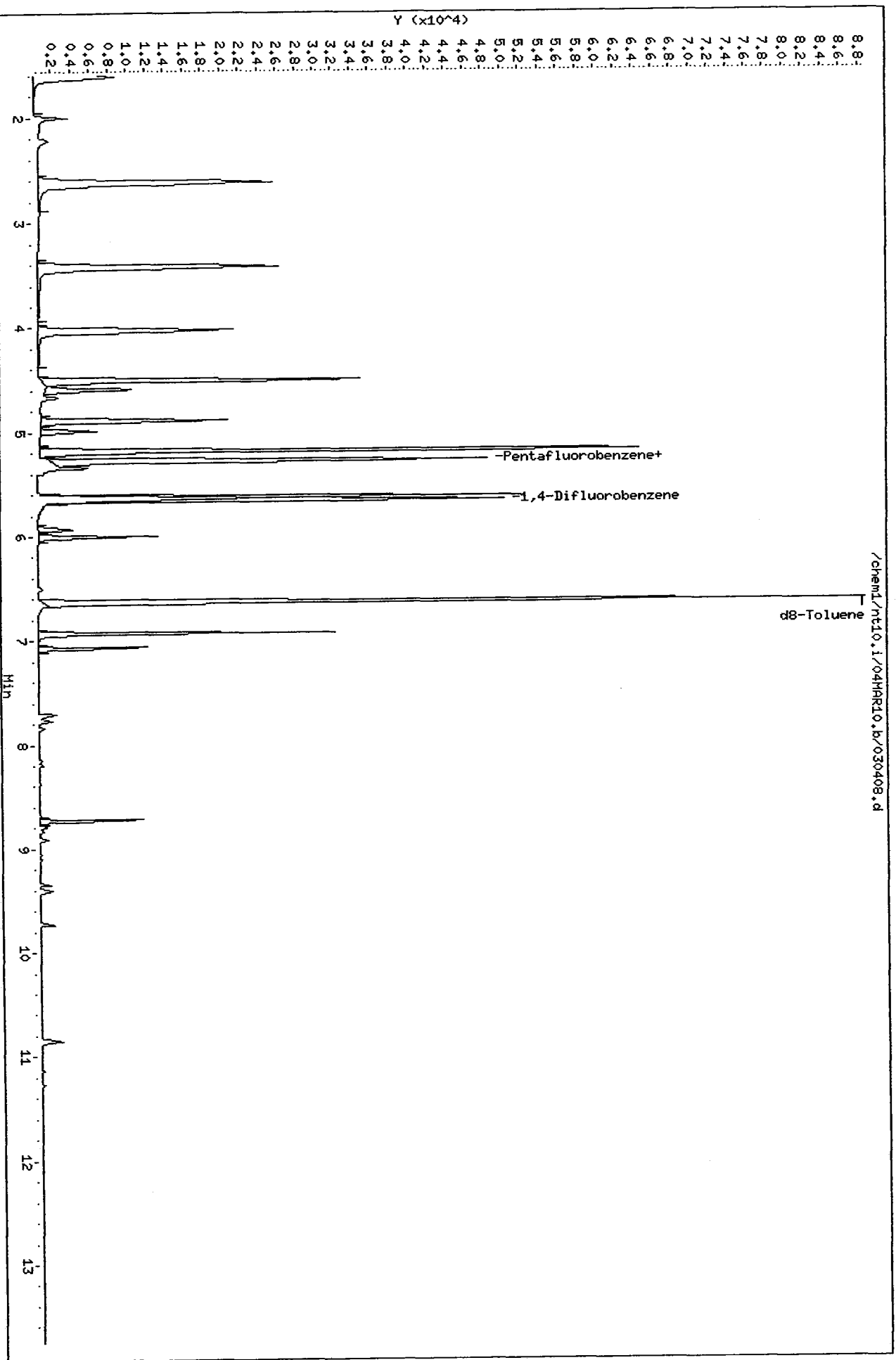
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	45054	0.00
9 1,4-Difluorobenze	66146	33073	132292	66146	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04MAR10.b/030408.d
Date : 04-MAR-2010 15:57
Client ID:
Sample Info: 10000304,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



10000304 : 00001

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i	Calibration Date: 04-MAR-2010
Lab File ID: 030409.d	Calibration Time: 15:57
Lab Smp Id: 20000304	
Analysis Type: VOA	Level: 15
Quant Type: ISTD	Sample Type: WATER
Operator: JZ	
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m	
Misc Info: 09-	

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	42049	-6.67
9 1,4-Difluorobenze	66146	33073	132292	61471	-7.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HR10.b/030409.d
Date: 04-HR-2010 16:28

Client ID:

Sample Info: 20000304,10,10,0

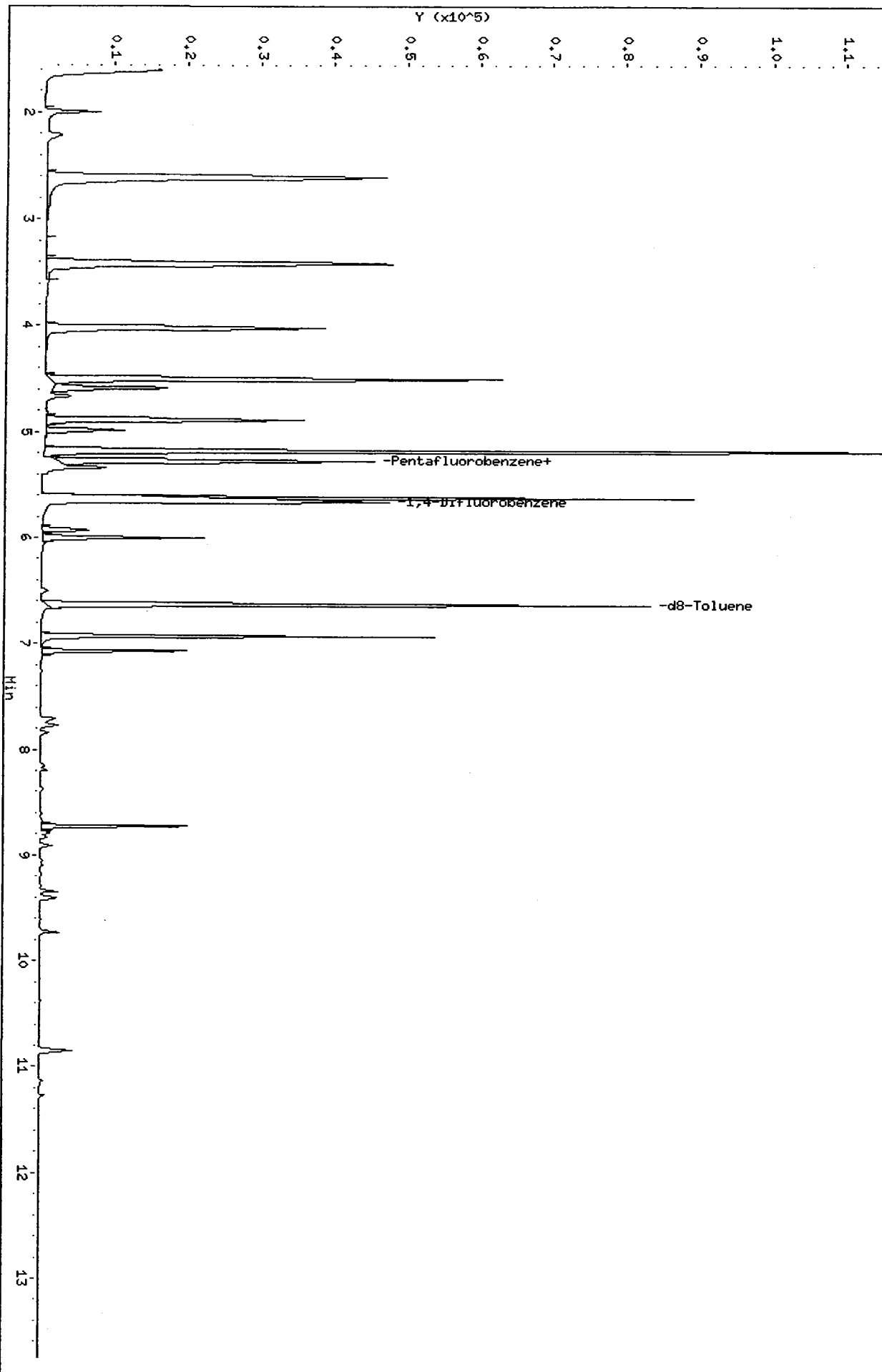
Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ

Column diameter: 0.18

/chem1/nt10.i/04HR10.b/030409.d



159355 11070

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Data File: /chem1/nt10.i/04MAR10.b/030410.d
Report Date: 08-Mar-2010 13:31

Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030410.d
Lab Smp Id: 40000304
Inj Date : 04-MAR-2010 16:58
Operator : JZ
Smp Info : 40000304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah
Cal Date : 04-MAR-2010 16:58
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030410.d
Calibration Sample, Level: 7
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.614	1.614	(0.306)	69910	4000.00	3868.4
2 1,1-Dichloroethene	96		2.616	2.616	(0.496)	75204	4000.00	3215.1
3 Trans-1,2-Dichloroethene	96		3.421	3.421	(0.649)	79871	4000.00	3376.4
4 cis-1,2-dichloroethene	96		4.502	4.502	(0.854)	81076	4000.00	3941.4
5 Benzene	78		5.186	5.186	(0.984)	351699	4000.00	3977.6
* 6 Pentafluorobenzene	168		5.272	5.272	(1.000)	45095	1000.00	
\$ 7 d4-1,2-Dichloroethane	65		5.290	5.290	(1.003)	13562	4000.00	939.84
8 Trichloroethene	130		5.619	5.619	(0.993)	95266	4000.00	3962.2
* 9 1,4-Difluorobenzene	114		5.661	5.661	(1.000)	66665	1000.00	
\$ 10 d8-Toluene	98		6.632	6.632	(1.172)	75349	4000.00	1014.1
11 Tetrachloroethene	166		6.926	6.925	(1.223)	100626	4000.00	3962.3
12 1,1,2,2-Tetrachloroethane	83		8.723	8.723	(1.541)	36754	4000.00	3283.4

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: 030410.d
 Lab Smp Id: 40000304
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: JZ
 Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
 Misc Info: 09-

Calibration Date: 04-MAR-2010
 Calibration Time: 15:57

Level: 15
 Sample Type: WATER

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	45095	0.09
9 1,4-Difluorobenze	66146	33073	132292	66665	0.78

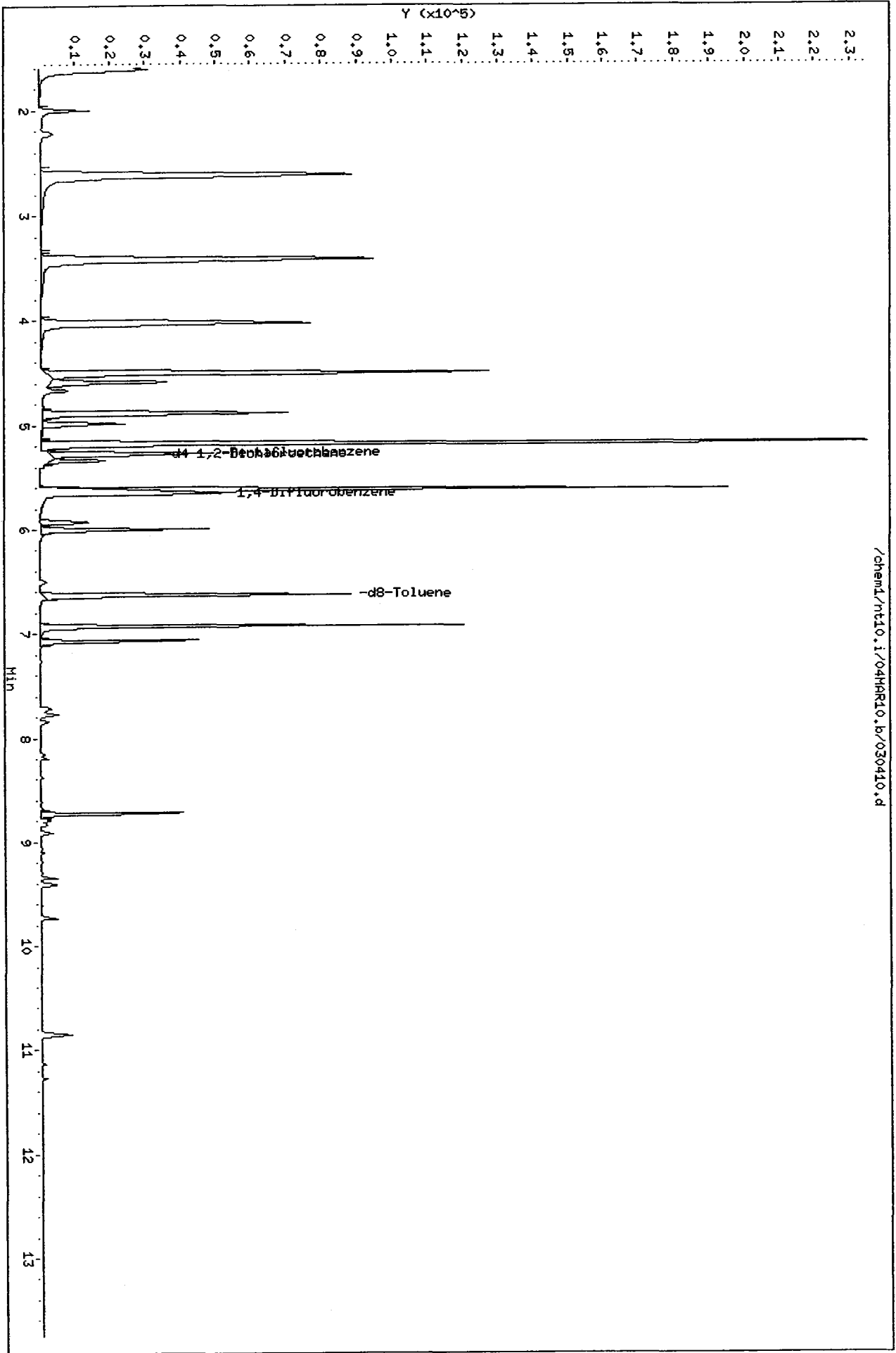
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt10.i/04HAR10.b/030410.d
Date: 04-HAR-2010 16:58
Client ID:
Sample Info: 40000304,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18

/chem1/nt10.i/04HAR10.b/030410.d



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Analytical Resources, Inc.

Data file : /chem1/nt10.i/04MAR10.b/030411.d
Lab Smp Id: ICV0304
Inj Date : 04-MAR-2010 17:28
Operator : JZ
Smp Info : ICV0304,10,10,0
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/04MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 13:30 monicah
Cal Date : 04-MAR-2010 16:58
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030410.d
QC Sample: LCSD
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 13:3 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.614	1.614	(0.306)	16574	927.225	927.23
2 1,1-Dichloroethene	96	2.616	2.616	(0.496)	17713	765.616	765.62 (R)
3 Trans-1,2-Dichloroethene	96	3.420	3.421	(0.649)	19560	835.994	835.99
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	20256	995.574	995.57
5 Benzene	78	5.186	5.186	(0.984)	86402	987.947	987.95
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	44603	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.290	(1.003)	13533	948.179	948.18
8 Trichloroethene	130	5.619	5.619	(0.993)	23988	1013.38	1013.4
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	65633	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	73372	1003.01	1003.0
11 Tetrachloroethene	166	6.925	6.925	(1.223)	25497	1019.77	1019.8
12 1,1,2,2-Tetrachloroethane	83	8.723	8.723	(1.541)	9117	827.266	827.27

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 030411.d
Lab Smp Id: ICV0304
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 04-MAR-2010
Calibration Time: 15:57

Level: 15
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	44603	-1.00
9 1,4-Difluorobenze	66146	33073	132292	65633	-0.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

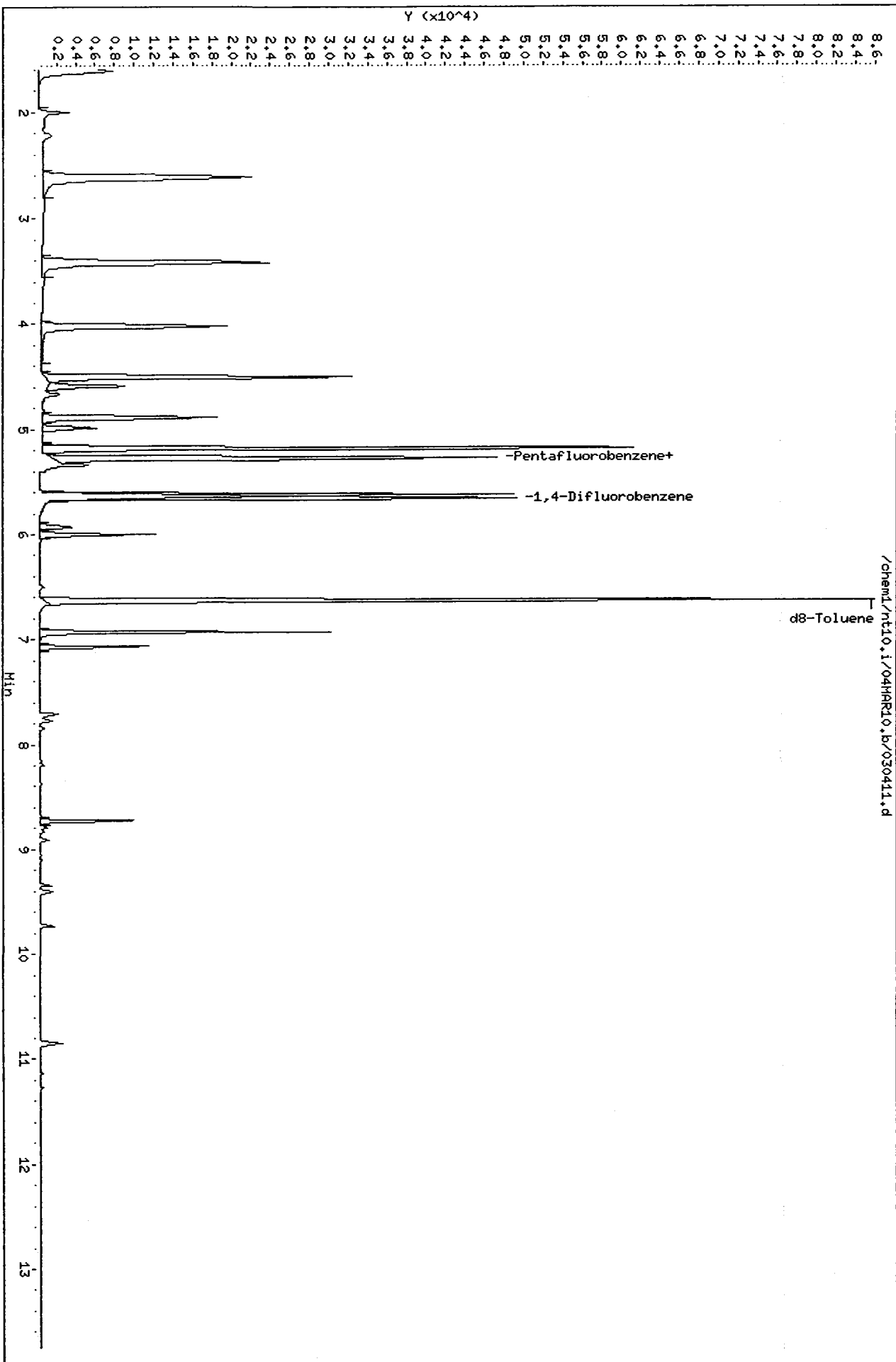
Client Name: Client SDG: 04MAR10
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV0304
 Level: RECOVERY REPORT Operator: JZ
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: sim.spk Quant Type: ISTD
 Sublist File: sim.sub
 Method File: /chem1/nt10.i/04MAR10.b/SIM030410.m
 Misc Info: 09-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	927.23	92.72	76-120
3 Trans-1,2-Dichloro	1000.0	835.99	83.60	70-130
2 1,1-Dichloroethene	1000.0	765.62	76.56*	79-126
4 cis-1,2-dichloroet	1000.0	995.57	99.56	76-127
5 Benzene	1000.0	987.95	98.79	75-121
8 Trichloroethene	1000.0	1013.4	101.34	79-120
11 Tetrachloroethene	1000.0	1019.8	101.98	75-123
12 1,1,2,2-Tetrachlor	1000.0	827.27	82.73	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	948.18	94.82	70-130
\$ 10 d8-Toluene	1000.0	1003.0	100.30	70-130

Data File: /chem1/nt10.i/04HAR10.b/030411.d
Date : 04-HAR-2010 17:28
Client ID:
Sample Info: ICV0304,10,10,0
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



11986 : 4873

Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

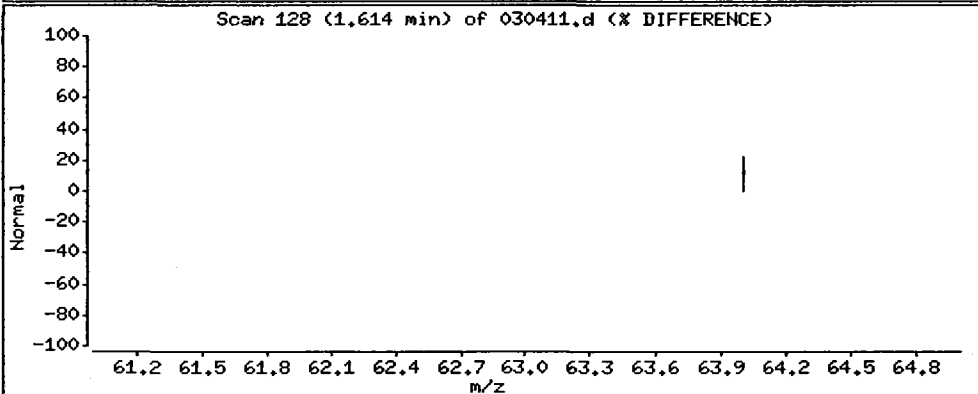
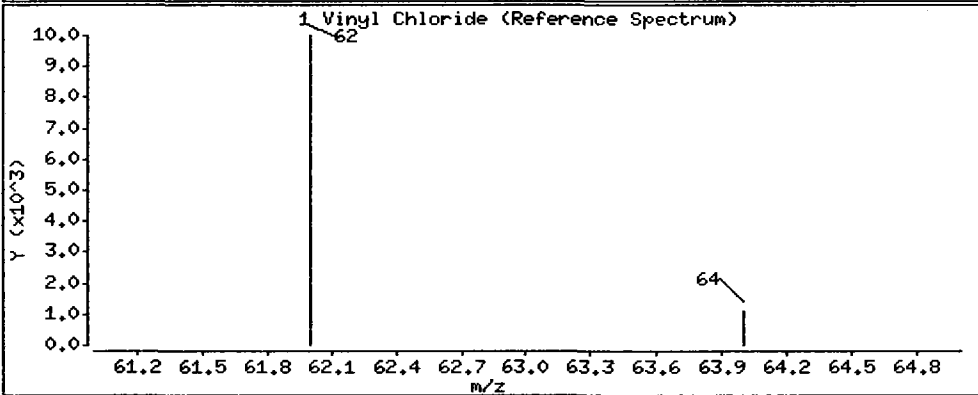
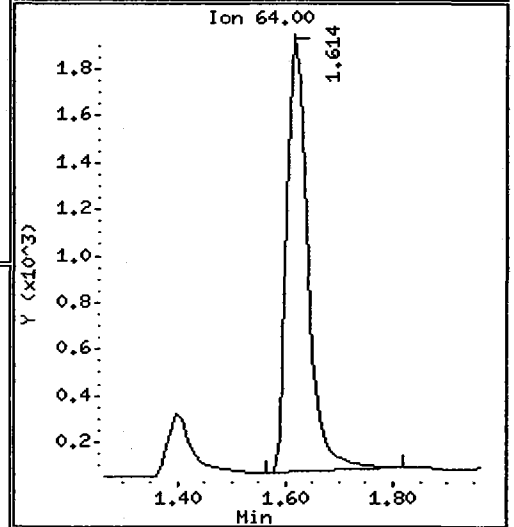
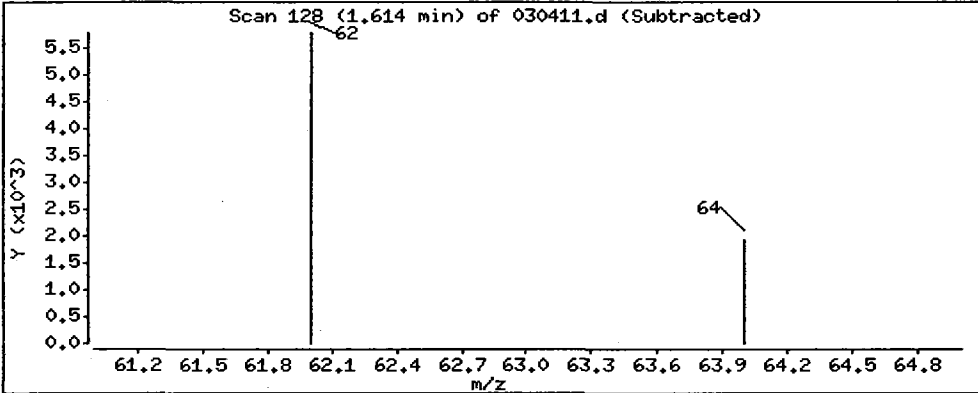
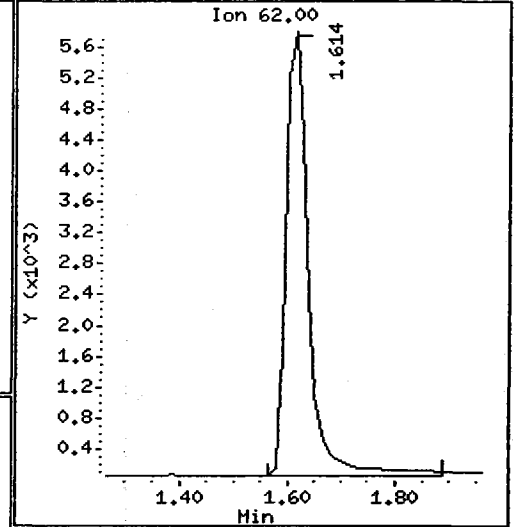
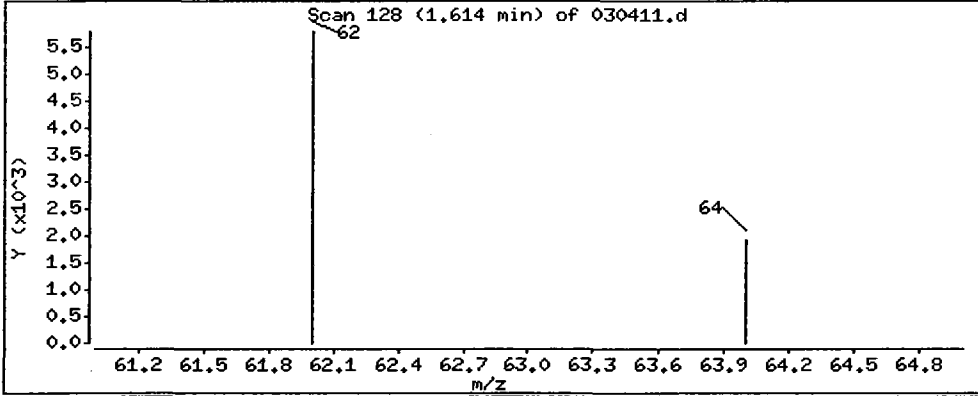
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

1 Vinyl Chloride

Concentration: 927.23 ug/L



Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

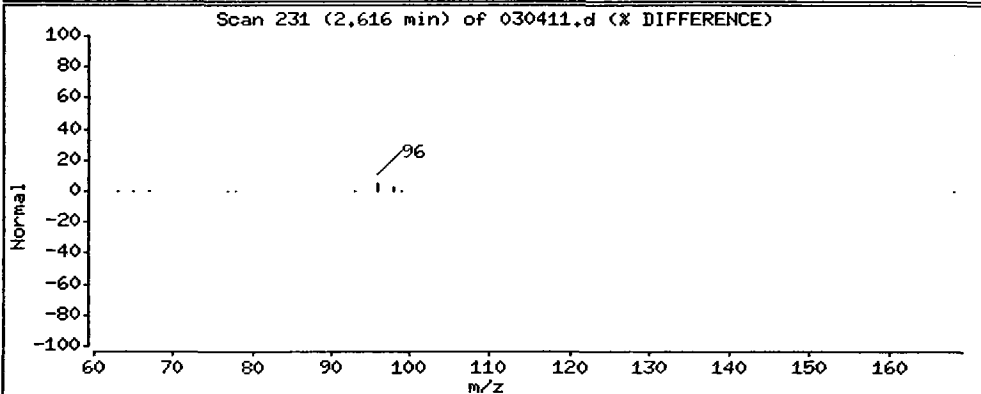
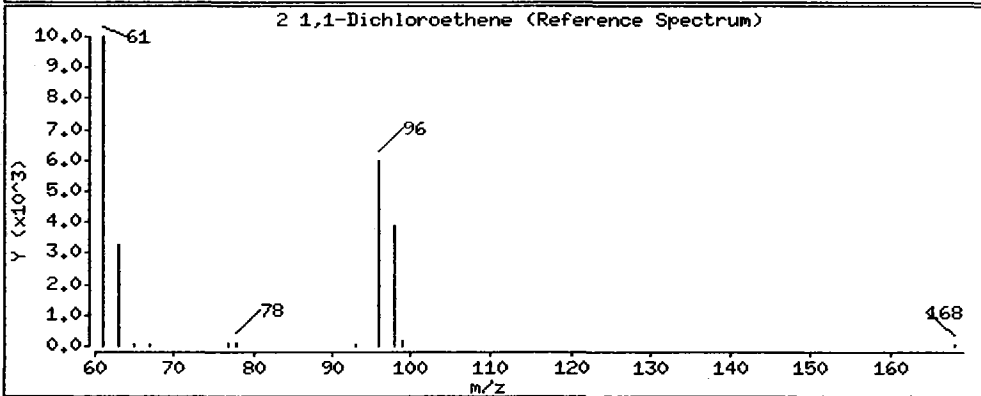
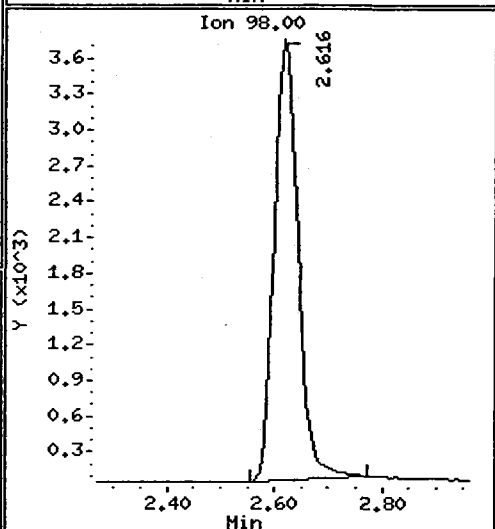
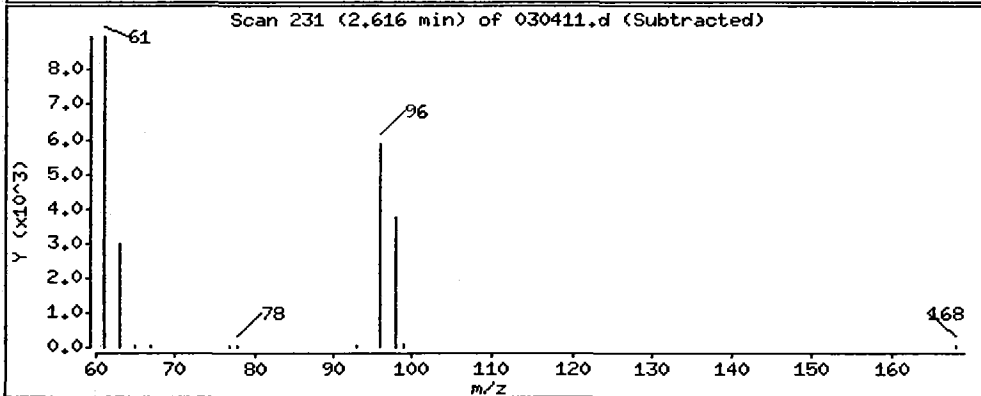
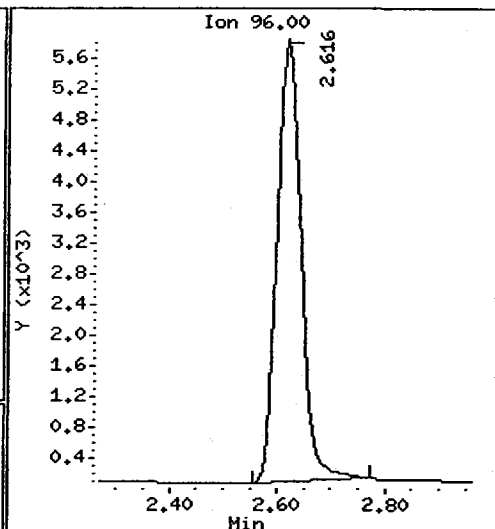
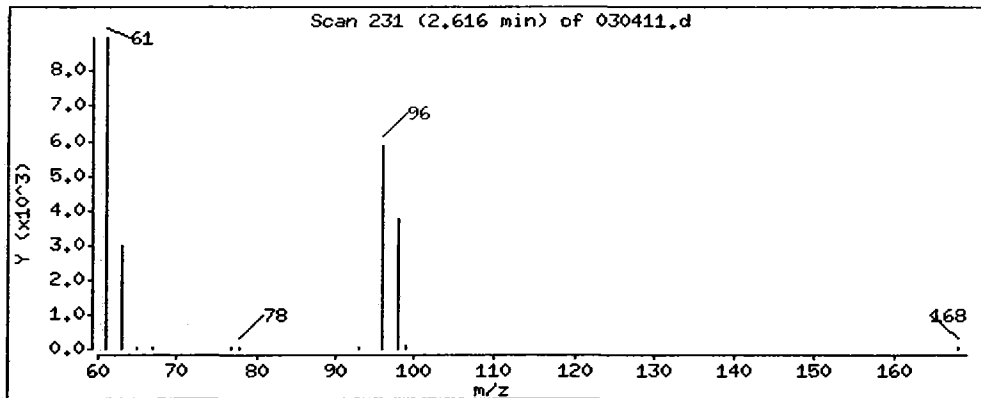
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

2 1,1-Dichloroethene

Concentration: 765.62 ug/L



Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

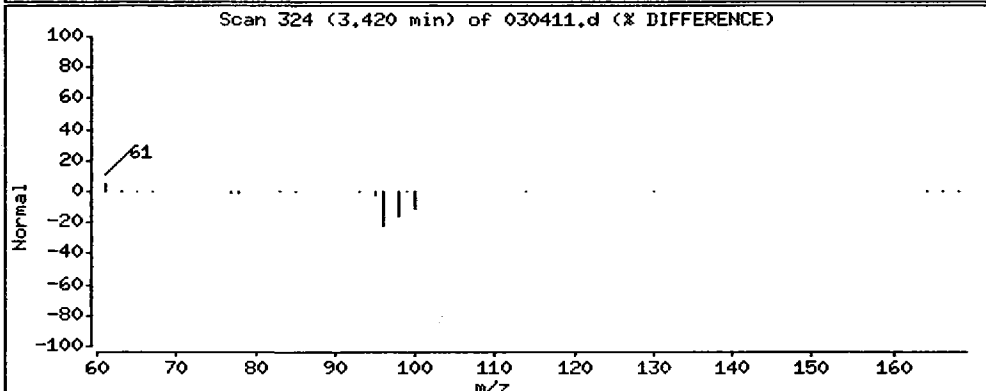
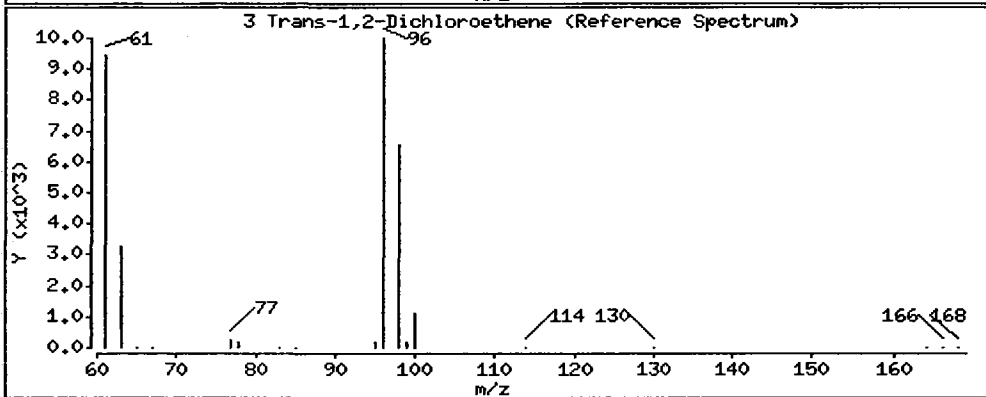
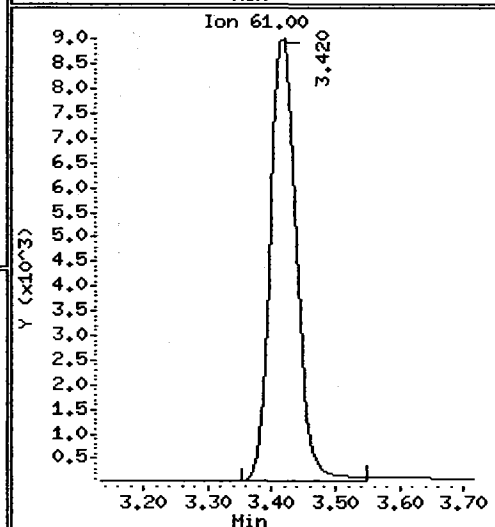
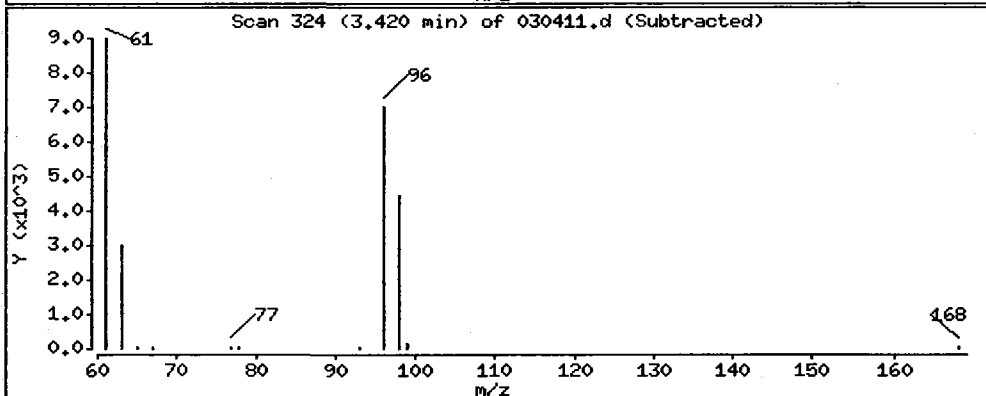
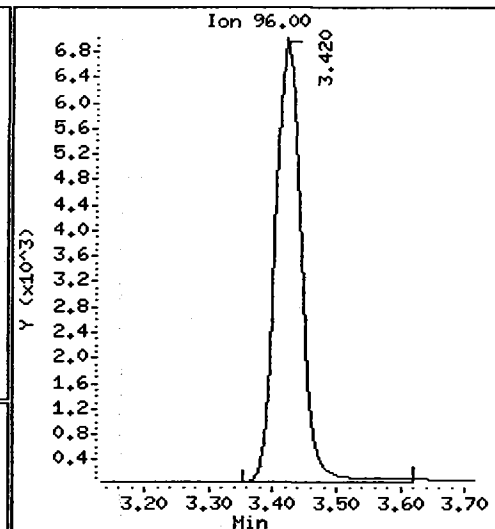
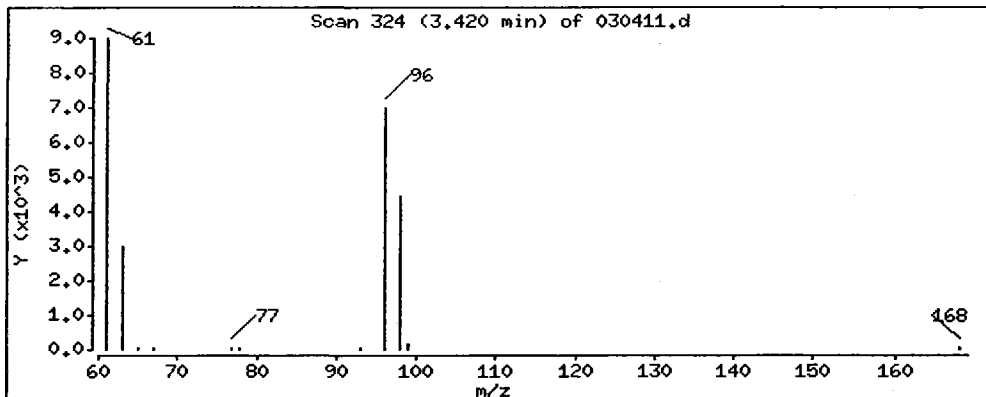
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

3 Trans-1,2-Dichloroethene

Concentration: 835.99 ug/L



Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

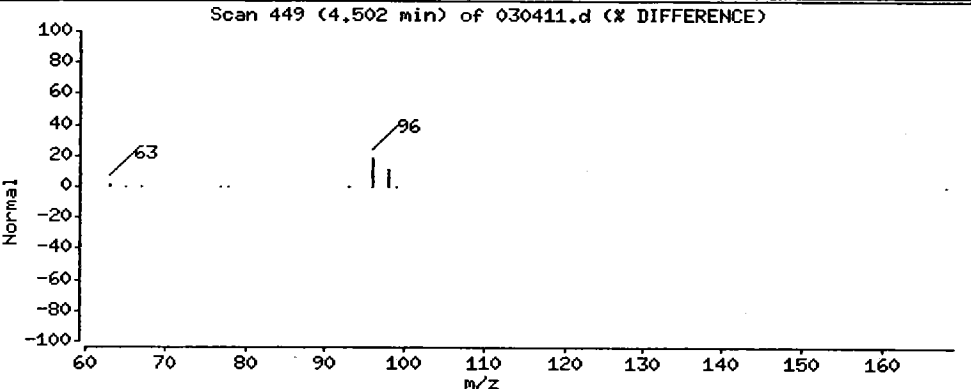
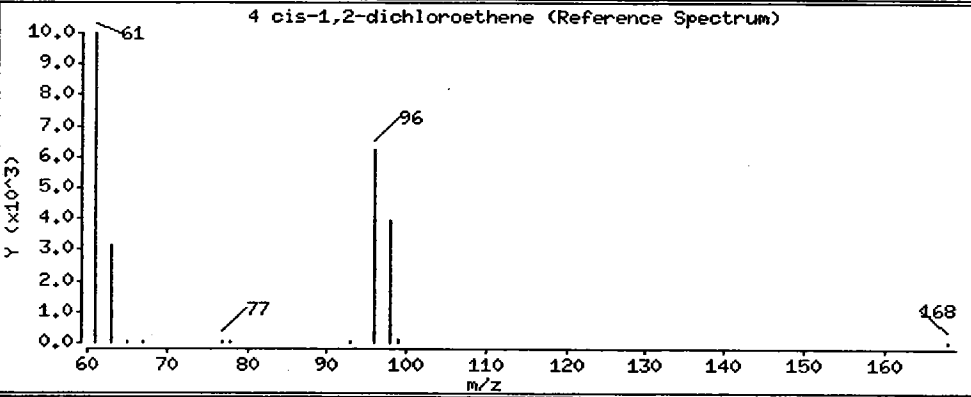
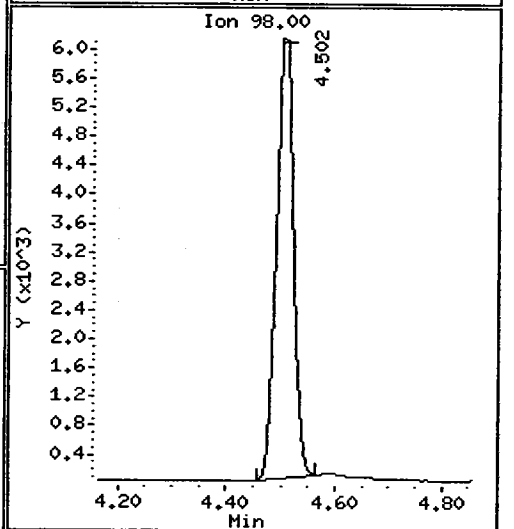
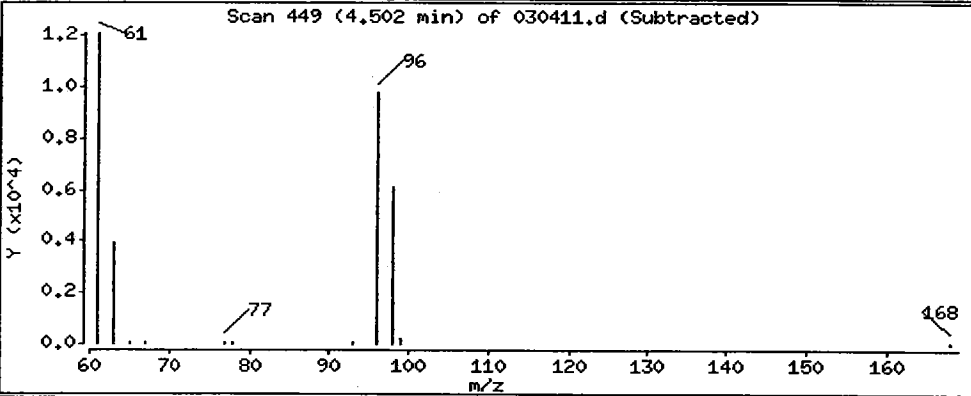
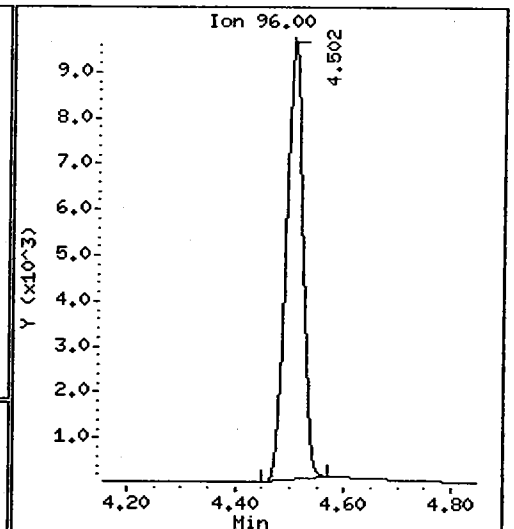
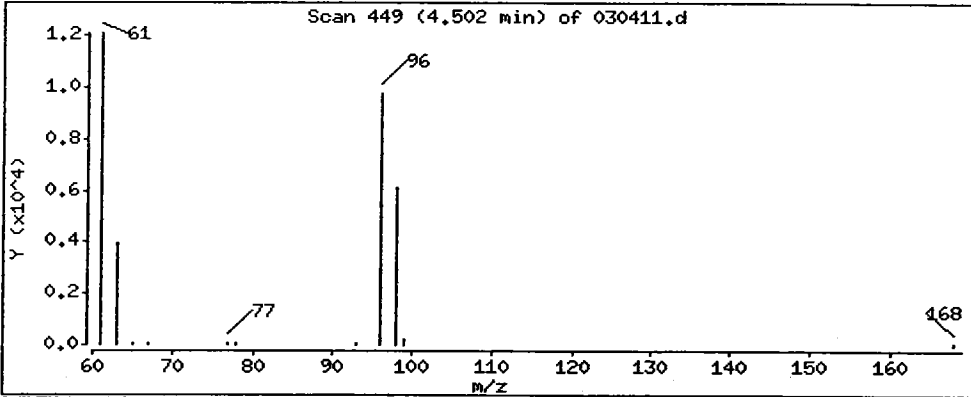
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

4 cis-1,2-dichloroethene

Concentration: 995.57 ug/L



Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

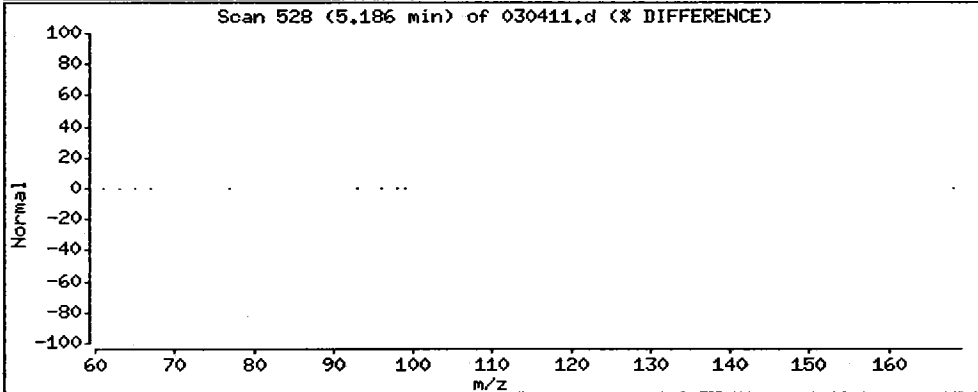
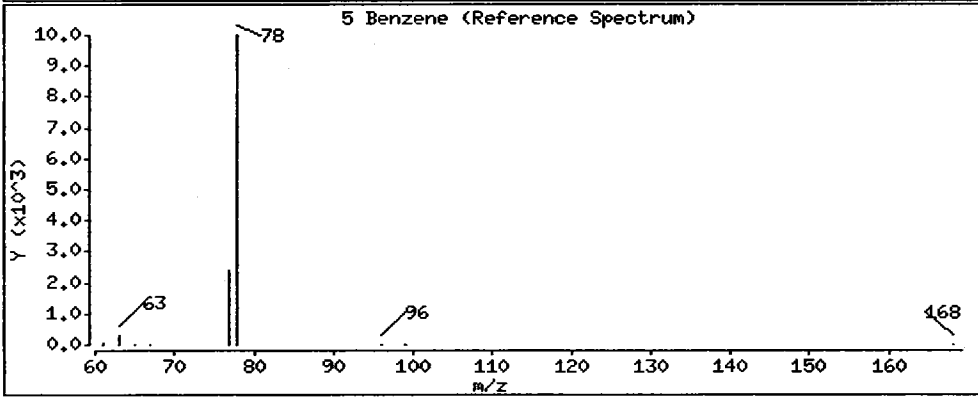
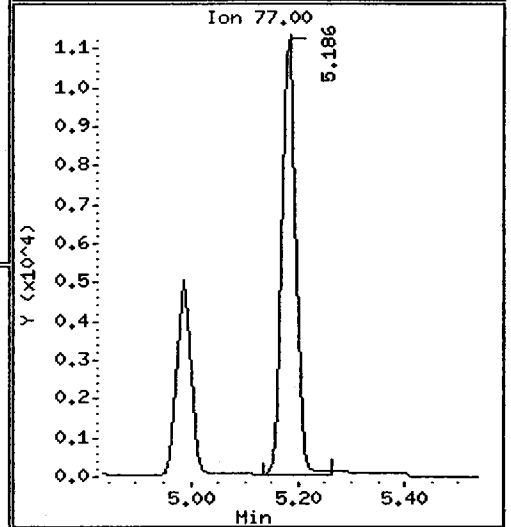
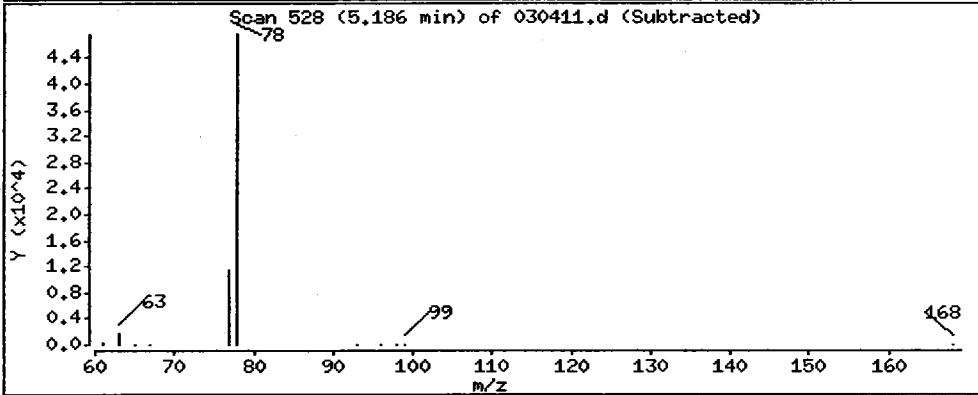
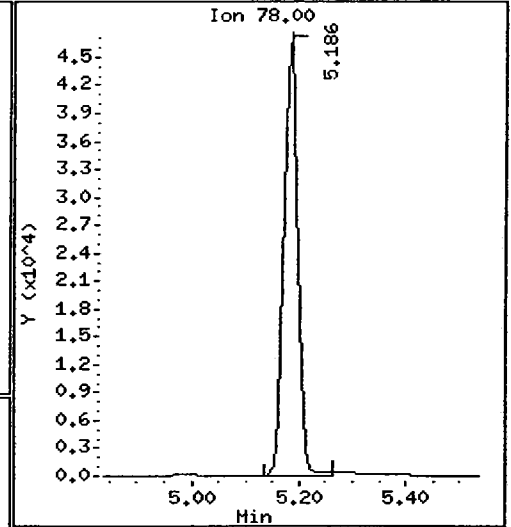
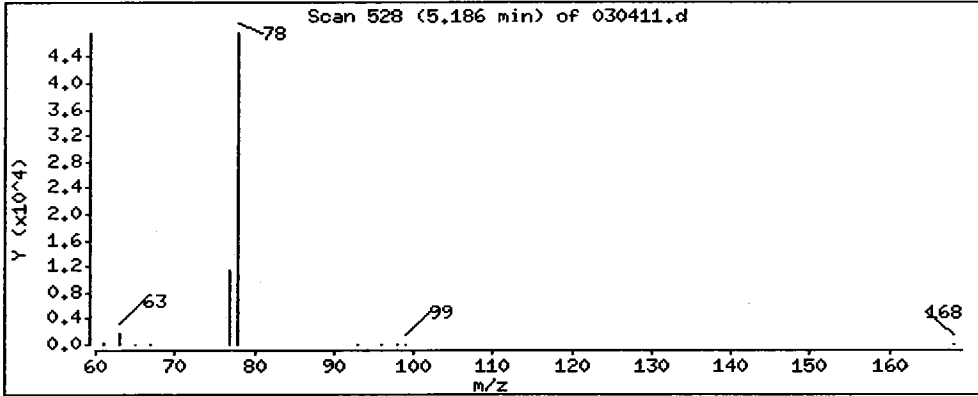
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

5 Benzene

Concentration: 987.95 ug/L



Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10,i

Sample Info: ICV0304,10,10,0

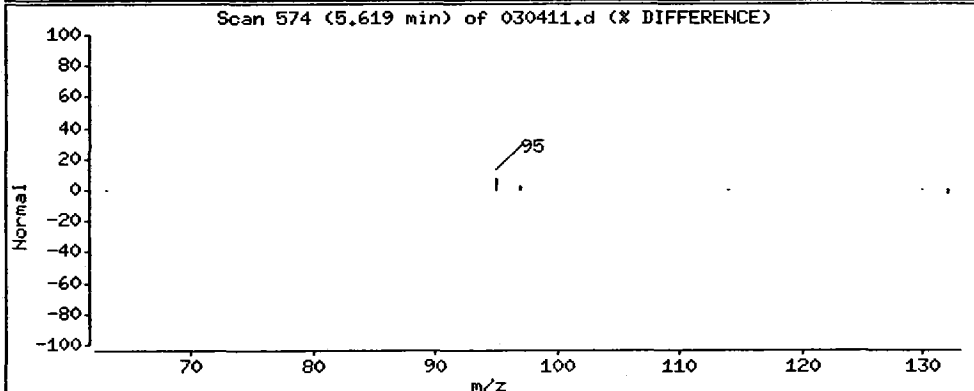
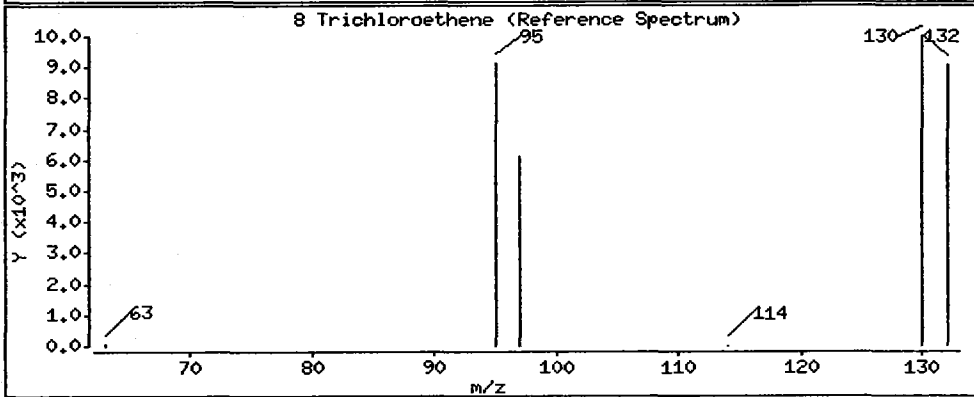
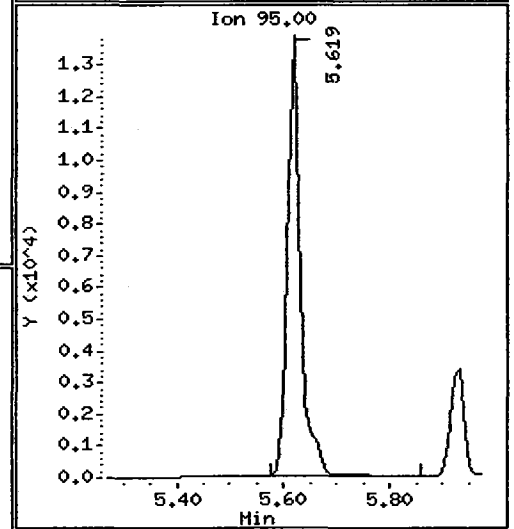
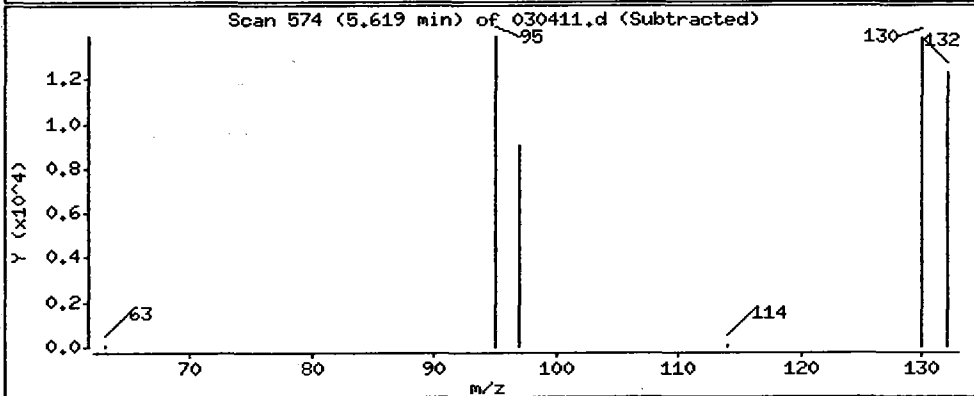
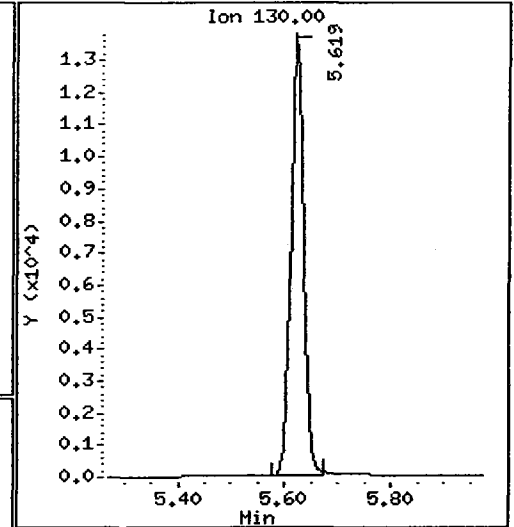
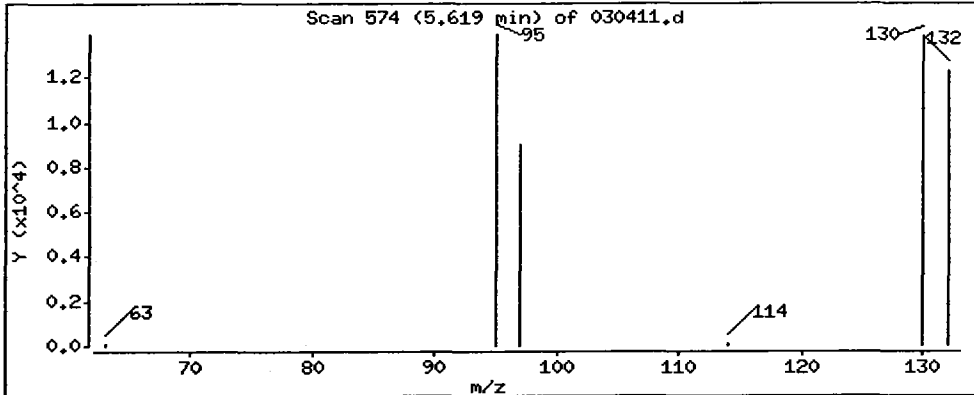
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

8 Trichloroethene

Concentration: 1013.4 ug/L



Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

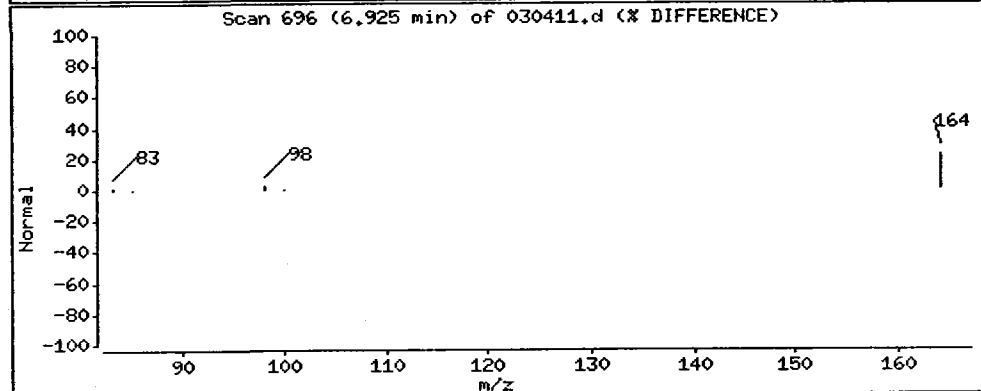
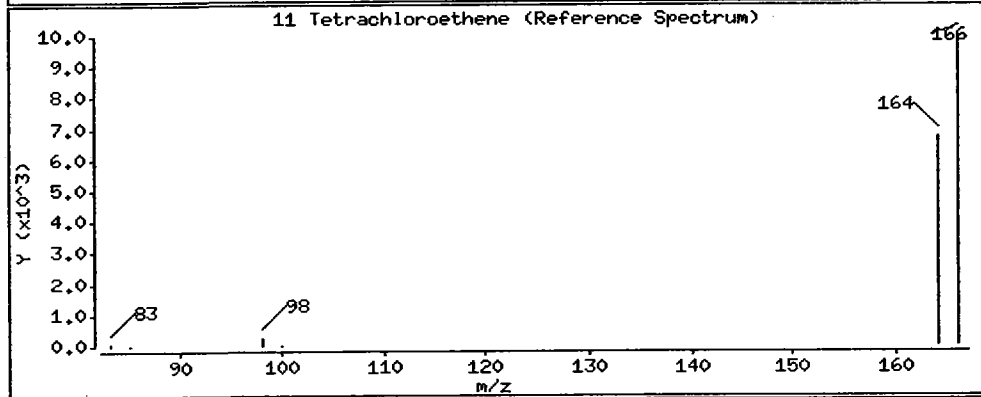
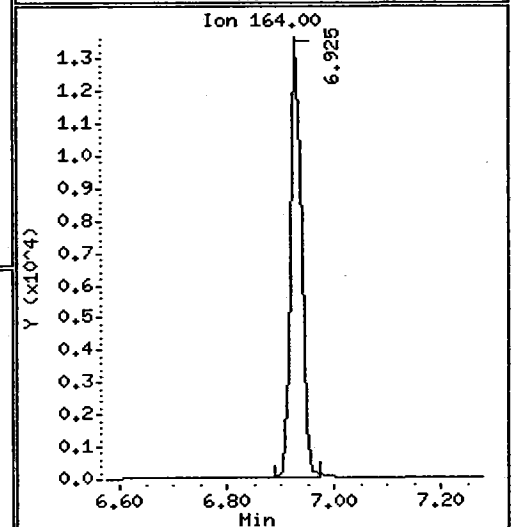
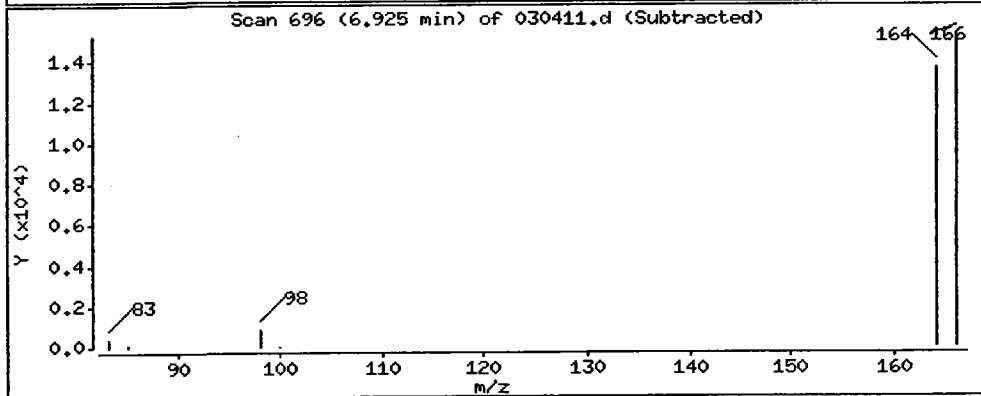
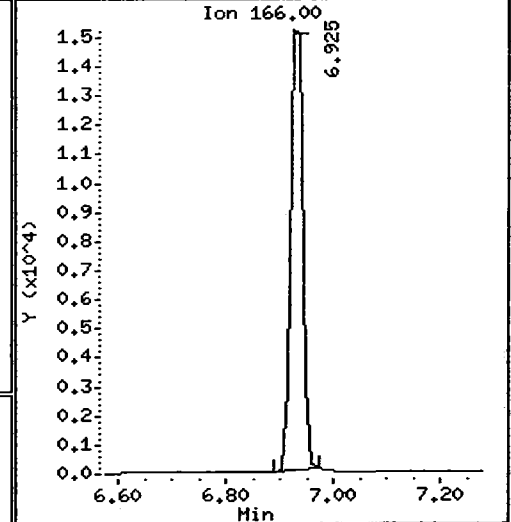
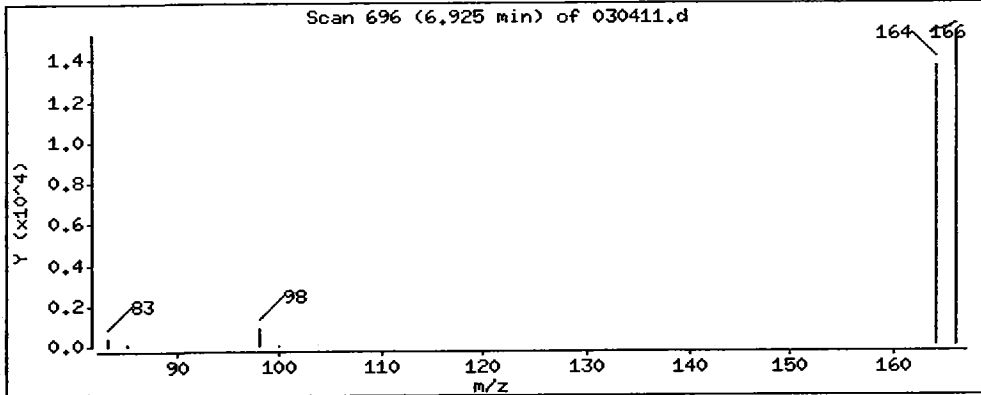
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

11 Tetrachloroethene

Concentration: 1019.8 ug/L



Date : 04-MAR-2010 17:28

Client ID:

Instrument: nt10.i

Sample Info: ICV0304,10,10,0

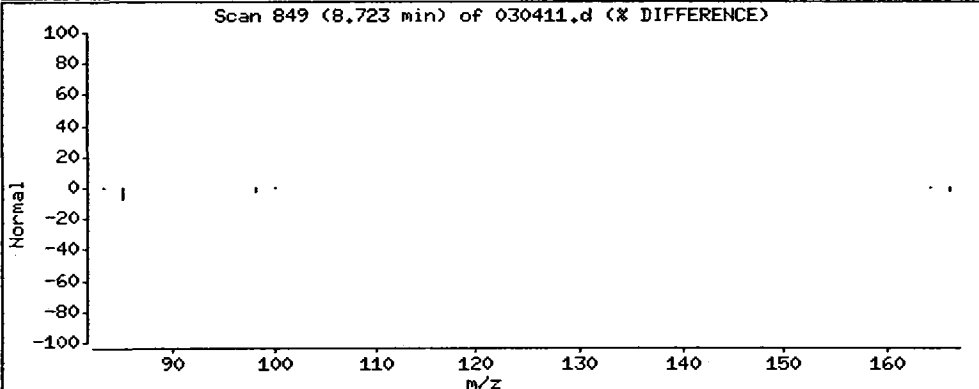
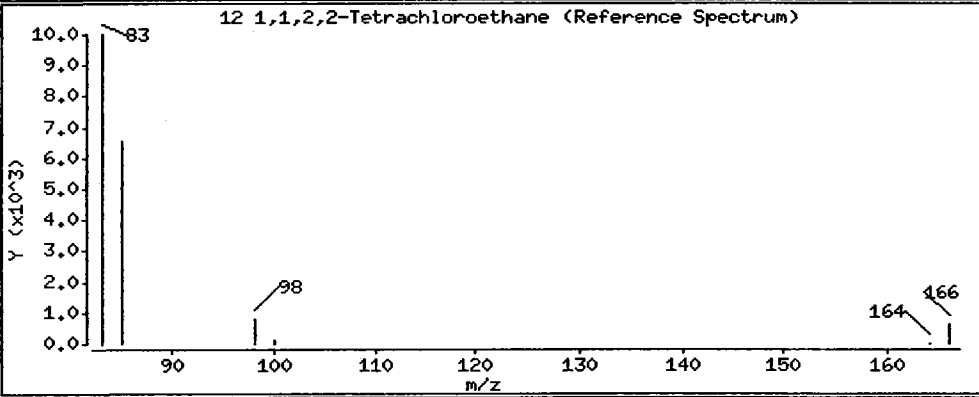
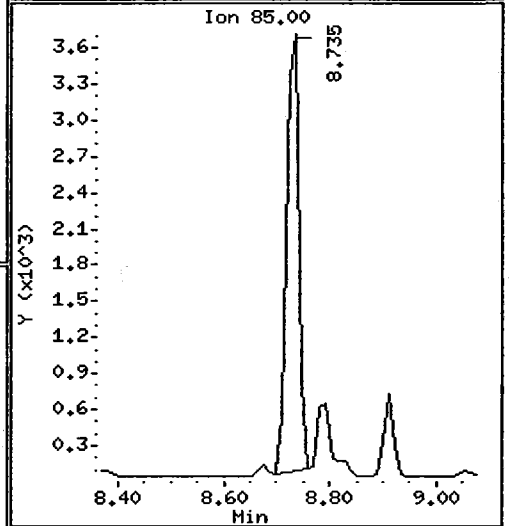
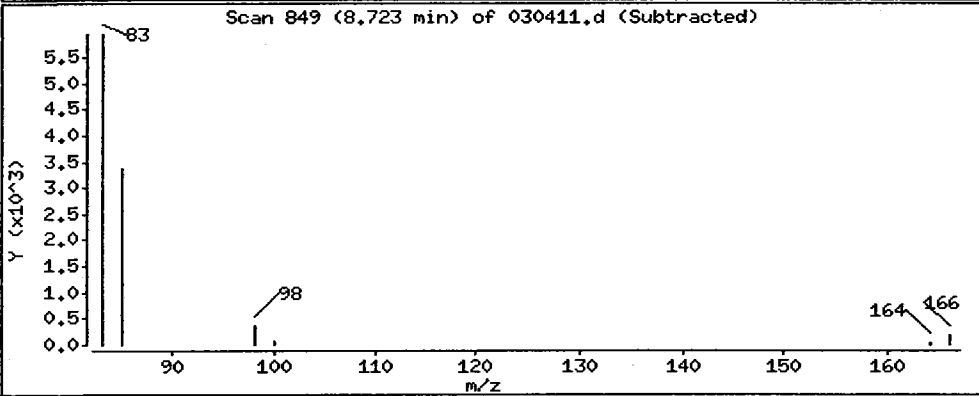
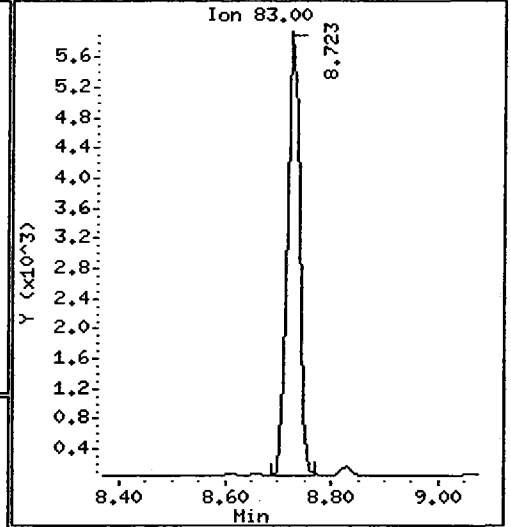
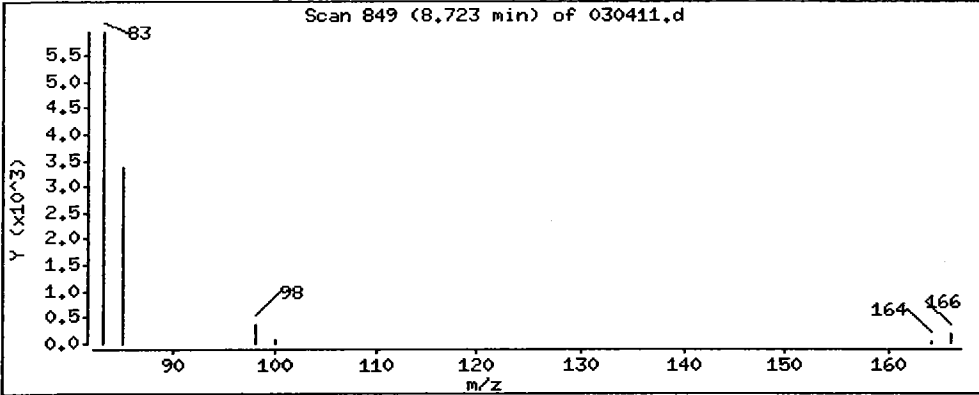
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

12 1,1,2,2-Tetrachloroethane

Concentration: 827.27 ug/L



VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No: QL34

Project: POS-LLA

Instrument ID: NT10

Cont. Calib. Date: 03/05/10

Init. Calib. Date: 03/04/10

Cont. Calib. Time: 0807

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift
Vinyl Chloride	1000.0	1128.6	0.010	LINR	12.9
1,1-Dichloroethene	0.519	0.480	0.010	AVRG	-7.5
Trans-1,2-Dichloroethene	0.524	0.483	0.010	AVRG	-7.8
cis-1,2-dichloroethene	1000.0	1067.7	0.010	LINR	6.8
Benzene	1000.0	1055.5	0.010	LINR	5.6
Trichloroethene	1000.0	1088.4	0.010	LINR	8.8
Tetrachloroethene	1000.0	1116.1	0.010	LINR	11.6
1,1,2,2-Tetrachloroethane	0.168	0.145	0.300	AVRG	-13.7 *
d4-1,2-Dichloroethane	0.320	0.304	0.010	AVRG	-5.0
d8-Toluene	1.115	1.127	0.010	AVRG	1.1

<- Exceeds QC limit of 20% D

* RF less than minimum RF

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt10.i Injection Date: 05-MAR-2010 08:07
 Lab File ID: 03050303.d Init. Cal. Date(s): 04-MAR-2010 04-MAR-2010
 Analysis Type: WATER Init. Cal. Times: 13:56 16:58
 Lab Sample ID: CC0305 Quant Type: ISTD
 Method: /chem1/nt10.i/05MAR10.b/SIM030410.m

COMPOUND	RRF / AMOUNT	RF1000	CCAL	MIN	MAX	CURVE TYPE
			RRF1000	RRF %D / %DRIFT	%D / %DRIFT	
1 Vinyl Chloride	1129	1000	0.45229	0.100 12.85865	20.00000	Linear
2 1,1-Dichloroethene	0.51870	0.47984	0.47984	0.100 -7.49298	20.00000	Averaged
3 Trans-1,2-Dichloroethene	0.52457	0.48344	0.48344	0.010 -7.84084	20.00000	Averaged
4 cis-1,2-dichloroethene	1068	1000	0.48706	0.100 6.77351	20.00000	Linear
5 Benzene	1056	1000	2.06966	0.100 5.55343	20.00000	Linear
\$ 7 d4-1,2-Dichloroethane	0.31999	0.30450	0.30450	0.100 -4.84228	20.00000	Averaged
8 Trichloroethene	1088	1000	0.39254	0.100 8.83943	20.00000	Linear
\$ 10 d8-Toluene	1.11456	1.12667	1.12667	0.100 1.08641	20.00000	Averaged
11 Tetrachloroethene	1116	1000	0.42519	0.100 11.61432	20.00000	Linear
12 1,1,2,2-Tetrachloroethane	0.16791	0.14462	0.14462	0.100 -13.87362	20.00000	Averaged

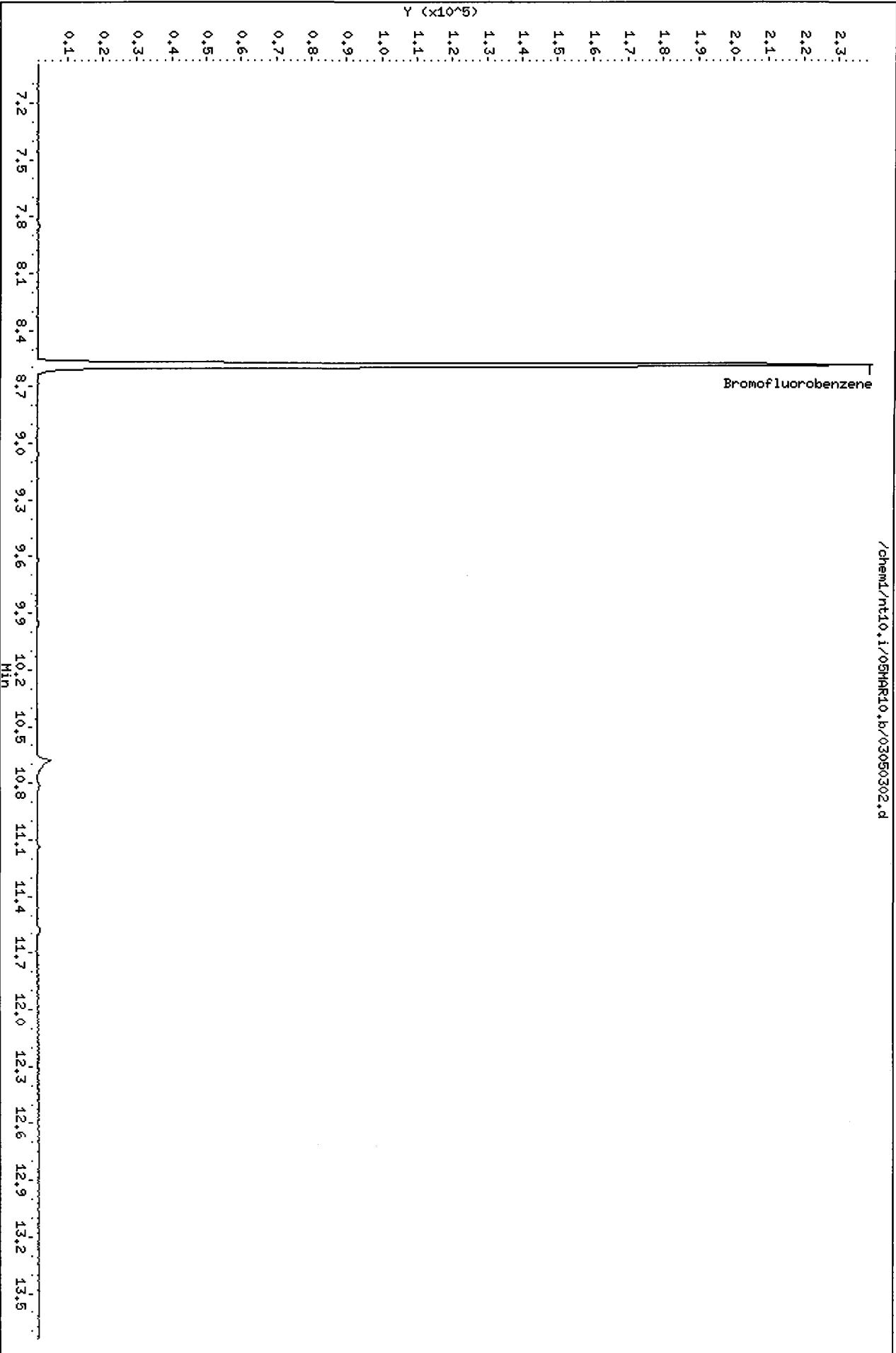
Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 8.07755
 Maximum Average %D/Drift = 20.00000
 * Passed Average %D/Drift Test.

Mr
3/8/10

Data File: /chemd/nt10.i/05MAR10.b/03050302.d
Date: 05-MAR-2010 07:24
Client ID: BFB0305
Sample Info: BFB0305,BFB0305,1,05MAR10,,
Column phase: RTX502.2

Instrument: nt10.i
Operator: ar
Column diameter: 0.18

/chemd/nt10.i/05MAR10.b/03050302.d



M
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050303.d
Report Date: 08-Mar-2010 07:14

Page 1

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050303.d
Lab Smp Id: CC0305
Inj Date : 05-MAR-2010 08:07
Operator : JZ
Smp Info : CC0305,10,10,0,
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:13 monicah
Cal Date : 04-MAR-2010 16:58
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030410.d
Continuing Calibration Sample
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.602	1.602	(0.304)	18233	1000.00	1128.6
2 1,1-Dichloroethene	96		2.607	2.607	(0.495)	19343	1000.00	925.07
3 Trans-1,2-Dichloroethene	96		3.412	3.412	(0.647)	19489	1000.00	921.59
4 cis-1,2-dichloroethene	96		4.502	4.502	(0.854)	19635	1000.00	1067.7
5 Benzene	78		5.177	5.177	(0.982)	83435	1000.00	1055.5
* 6 Pentafluorobenzene	168		5.272	5.272	(1.000)	40313	1000.00	
\$ 7 d4-1,2-Dichloroethane	65		5.289	5.289	(1.003)	12275	1000.00	951.58
8 Trichloroethene	130		5.619	5.619	(0.993)	22972	1000.00	1088.4
* 9 1,4-Difluorobenzene	114		5.661	5.661	(1.000)	58521	1000.00	
\$ 10 d8-Toluene	98		6.632	6.632	(1.172)	65934	1000.00	1010.9
11 Tetrachloroethene	166		6.937	6.937	(1.226)	24882	1000.00	1116.1
12 1,1,2,2-Tetrachloroethane	83		8.735	8.735	(1.543)	8463	1000.00	861.26

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050303.d
Lab Smp Id: CC0305
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Level: 08
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

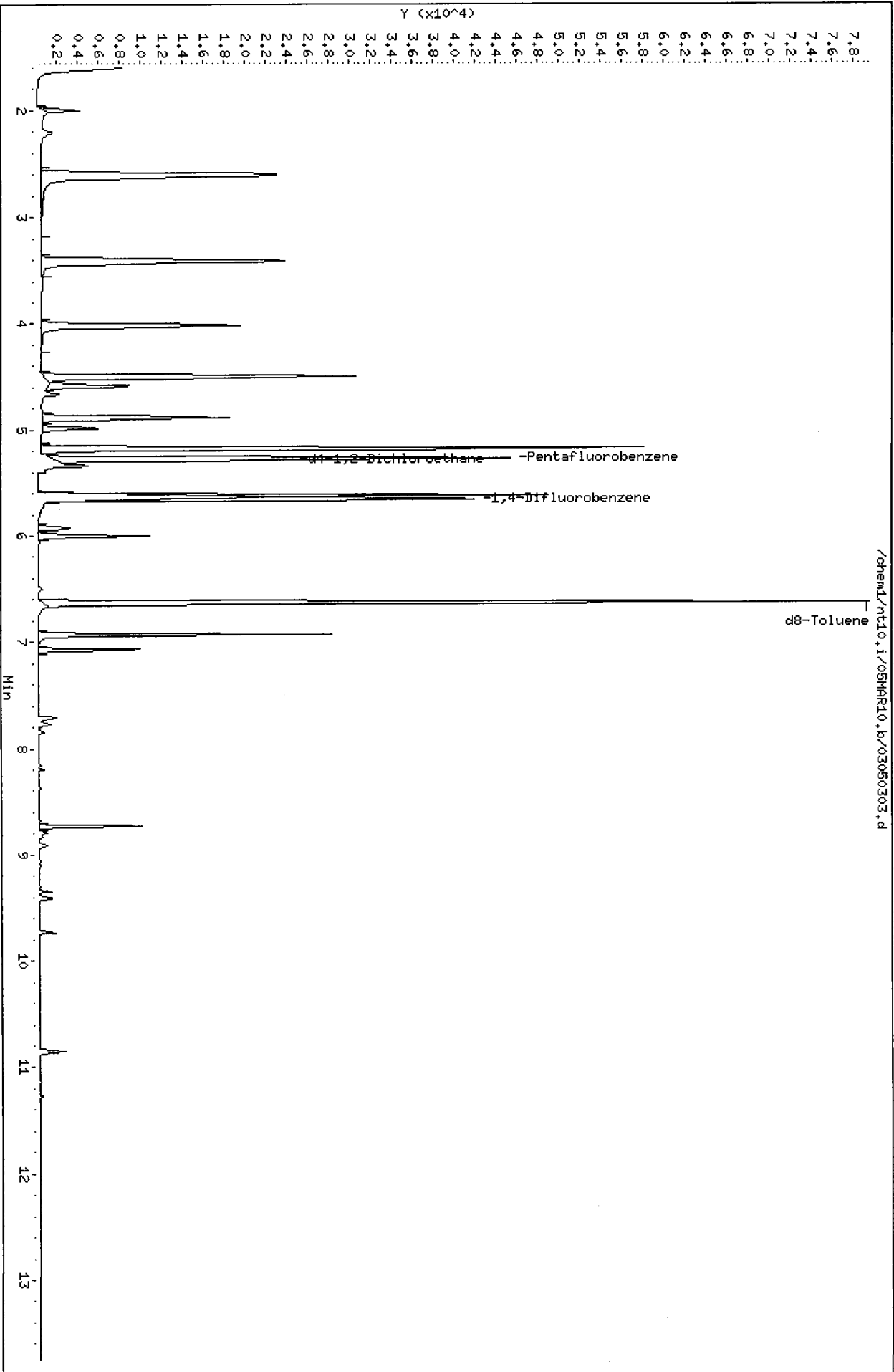
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	40313	-10.52
9 1,4-Difluorobenze	66146	33073	132292	58521	-11.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chemd/nt10.i/05MAR10.b/03050303.d
Date : 05-MAR-2010 08:07
Client ID:
Sample Info: CC0305.10.10.0,
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



SIM Volatile Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt10.i/04MAR10.b/bfb030403.d

Date : 04-MAR-2010 13:20

Client ID: BFB0304

Instrument: nt10.i

Sample Info: BFB0304,BFB0304,,1,04MAR10,,

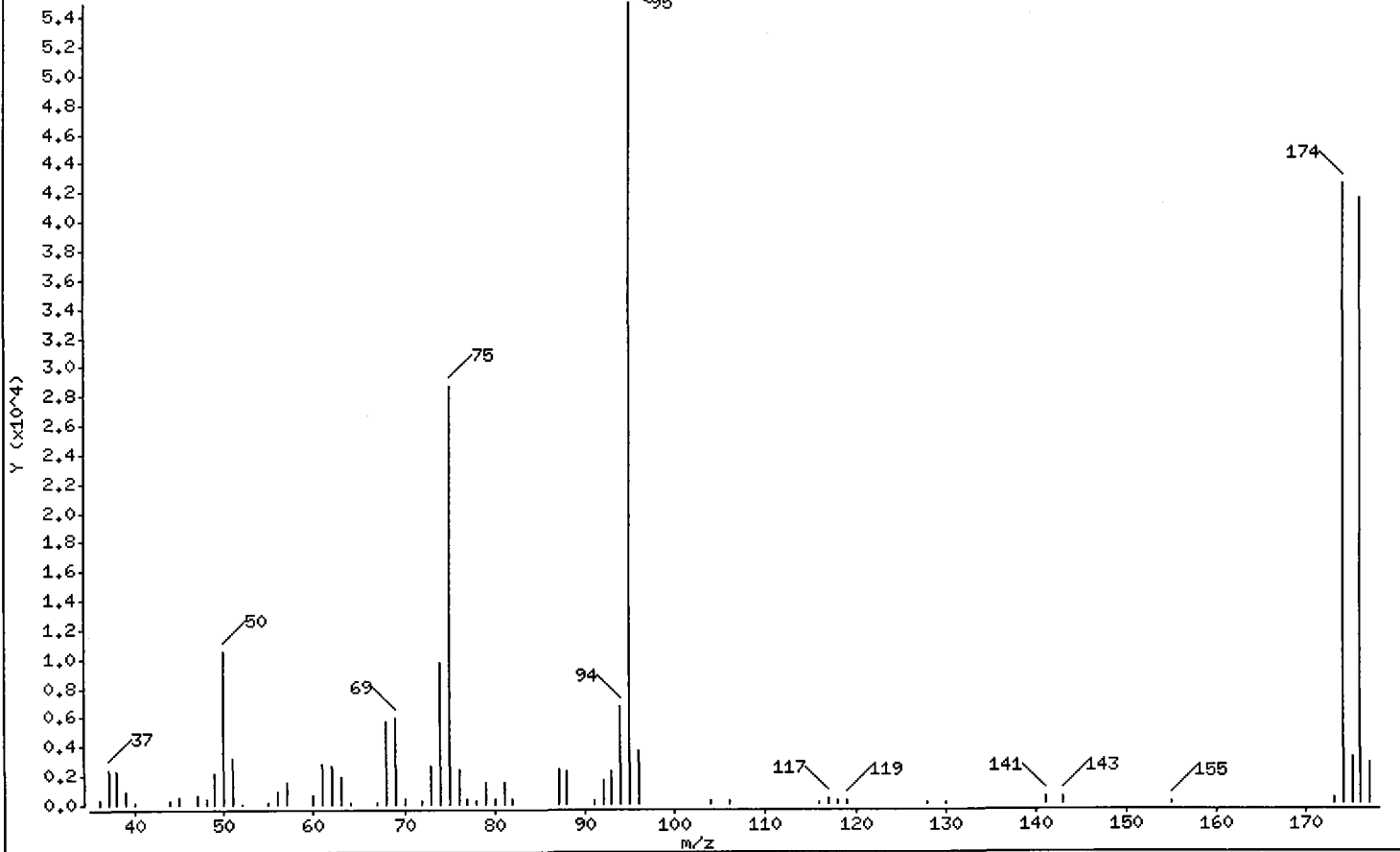
Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene

Avg. Scans 1492-1494 (8.58), Background Scan 1487



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.13
75	30.00 - 66.00% of mass 95	52.16
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.64 (0.83)
174	50.00 - 101.00% of mass 95	77.22
175	4.00 - 9.00% of mass 174	5.74 (7.44)
176	93.00 - 101.00% of mass 174	75.35 (97.59)
177	5.00 - 9.00% of mass 176	5.03 (6.68)

Data File: /chem1/nt10.i/04MAR10.b/bfb030403.d

Date : 04-MAR-2010 13:20

Client ID: BFB0304

Instrument: nt10.i

Sample Info: BFB0304,BFB0304,,1,04MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0,18

Data File: bfb030403.d

Spectrum: Avg. Scans 1492-1494 (8,58), Background Scan 1487

Location of Maximum: 95,00

Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	422	60,00	575	79,00	1489	118,00	192
37,00	2435	61,00	2762	80,00	438	119,00	245
38,00	2236	62,00	2688	81,00	1549	128,00	186
39,00	931	63,00	1870	82,00	332	130,00	147
40,00	118	64,00	149	87,00	2420	141,00	527
44,00	274	67,00	124	88,00	2305	143,00	486
45,00	480	68,00	5675	91,00	226	155,00	101
47,00	618	69,00	5880	92,00	1607	173,00	352
48,00	334	70,00	410	93,00	2273	174,00	42408
49,00	2180	72,00	314	94,00	6655	175,00	3155
50,00	10506	73,00	2629	95,00	54920	176,00	41384
51,00	3217	74,00	9731	96,00	3635	177,00	2765
52,00	58	75,00	28648	104,00	246		
55,00	128	76,00	2397	106,00	251		
56,00	838	77,00	361	116,00	141		
57,00	1532	78,00	225	117,00	324		

QL34: 00528

Data File: /chem1/nt10.i/04MAR10.b/bfb030403.d

Date : 04-MAR-2010 13:20

Client ID: BFB0304

Sample Info: BFB0304,BFB0304,,1,04MAR10,,

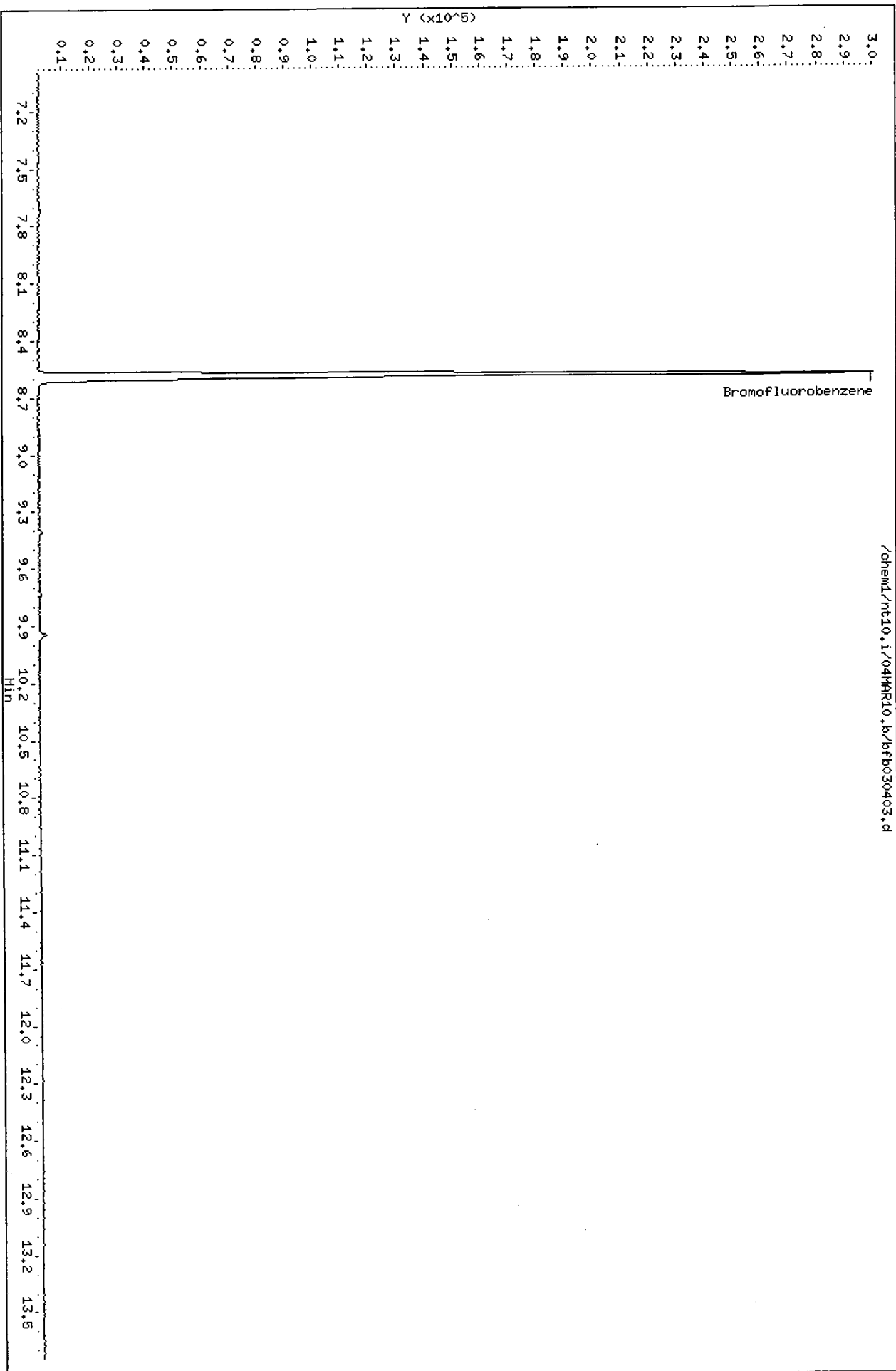
Instrument: nt10.i

Operator: ar

Column diameter: 0.18

Column phase: RTX502.2

/chem1/nt10.i/04MAR10.b/bfb030403.d



Data File: /chem1/nt10.i/05MAR10,b/03050302.d

Date : 05-MAR-2010 07:21

Client ID: BFB0305

Instrument: nt10.i

Sample Info: BFB0305,BFB0305,,1,05MAR10,,

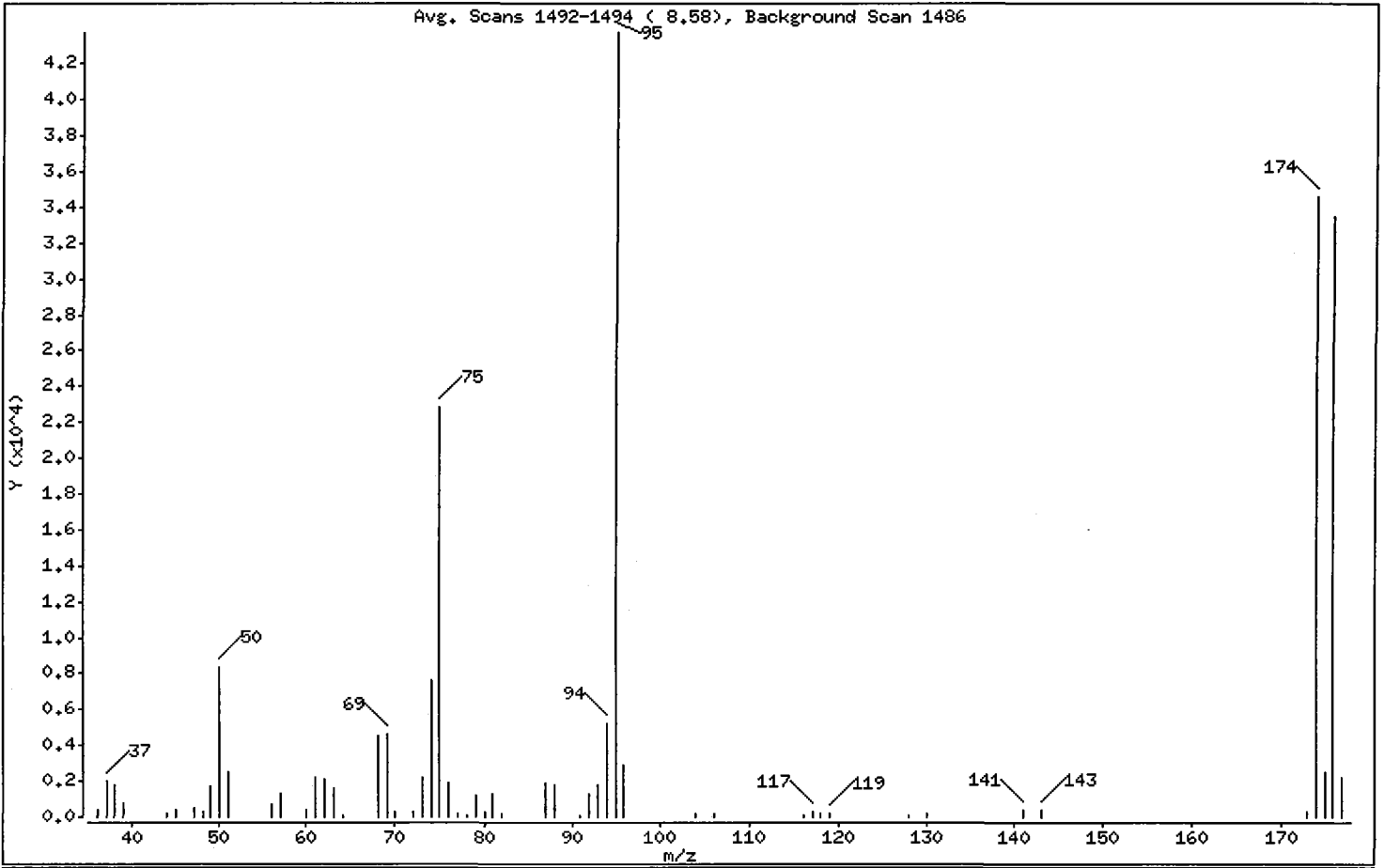
Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene

Avg. Scans 1492-1494 (8.58), Background Scan 1486



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.16
75	30.00 - 66.00% of mass 95	52.29
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.70 (0.89)
174	50.00 - 101.00% of mass 95	78.99
175	4.00 - 9.00% of mass 174	5.71 (7.23)
176	93.00 - 101.00% of mass 174	76.52 (96.88)
177	5.00 - 9.00% of mass 176	5.16 (6.74)

Data File: /chem1/nt10.i/05MAR10,b/03050302.d

Date : 05-MAR-2010 07:21

Client ID: BFB0305

Instrument: nt10.i

Sample Info: BFB0305,BFB0305,,1,05MAR10,,

Operator: ar

Column phase: RTX502.2

Column diameter: 0.18

Data File: 03050302.d

Spectrum: Avg. Scans 1492-1494 (8.58), Background Scan 1486


Location of Maximum: 95.00

Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	354	61.00	2227	79.00	1245	116.00	114
37.00	2016	62.00	2146	80.00	330	117.00	263
38.00	1849	63.00	1589	81.00	1265	118.00	163
39.00	767	64.00	116	82.00	232	119.00	206
44.00	239	68.00	4562	87.00	1908	128.00	61
45.00	369	69.00	4608	88.00	1805	130.00	181
47.00	473	70.00	302	91.00	118	141.00	401
48.00	279	72.00	283	92.00	1328	143.00	422
49.00	1691	73.00	2185	93.00	1846	173.00	306
50.00	8382	74.00	7636	94.00	5244	174.00	34560
51.00	2553	75.00	22880	95.00	43752	175.00	2498
56.00	693	76.00	1910	96.00	2937	176.00	33480
57.00	1287	77.00	239	104.00	187	177.00	2256
60.00	431	78.00	141	106.00	187		

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-030510
Page 1 of 1 METHOD BLANK

Lab Sample ID: MB-030510
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: 
Reported: 03/09/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT10/MH
Date Analyzed: 03/05/10 09:51

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	99.0%

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050306.d
Lab Smp Id: MB0305
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Level: 08
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	43404	-3.66
9 1,4-Difluorobenze	66146	33073	132292	63335	-4.25

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 05MAR10
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: MB0305
Level: RECOVERY REPORT Operator: JZ
Data Type: MS DATA SampleType: BLANK
SpikeList File: sim.spk Quant Type: ISTD
Sublist File: sim.sub
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 09-

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	1043.4	104.34	70-130
\$ 10 d8-Toluene	1000.0	990.34	99.03	70-130

Data File: /chem1/nt10.i/05HAR10.b/03050306.d

Date: 05-HAR-2010 09:51

Client ID:

Sample Info: HB0305_10_10_0,

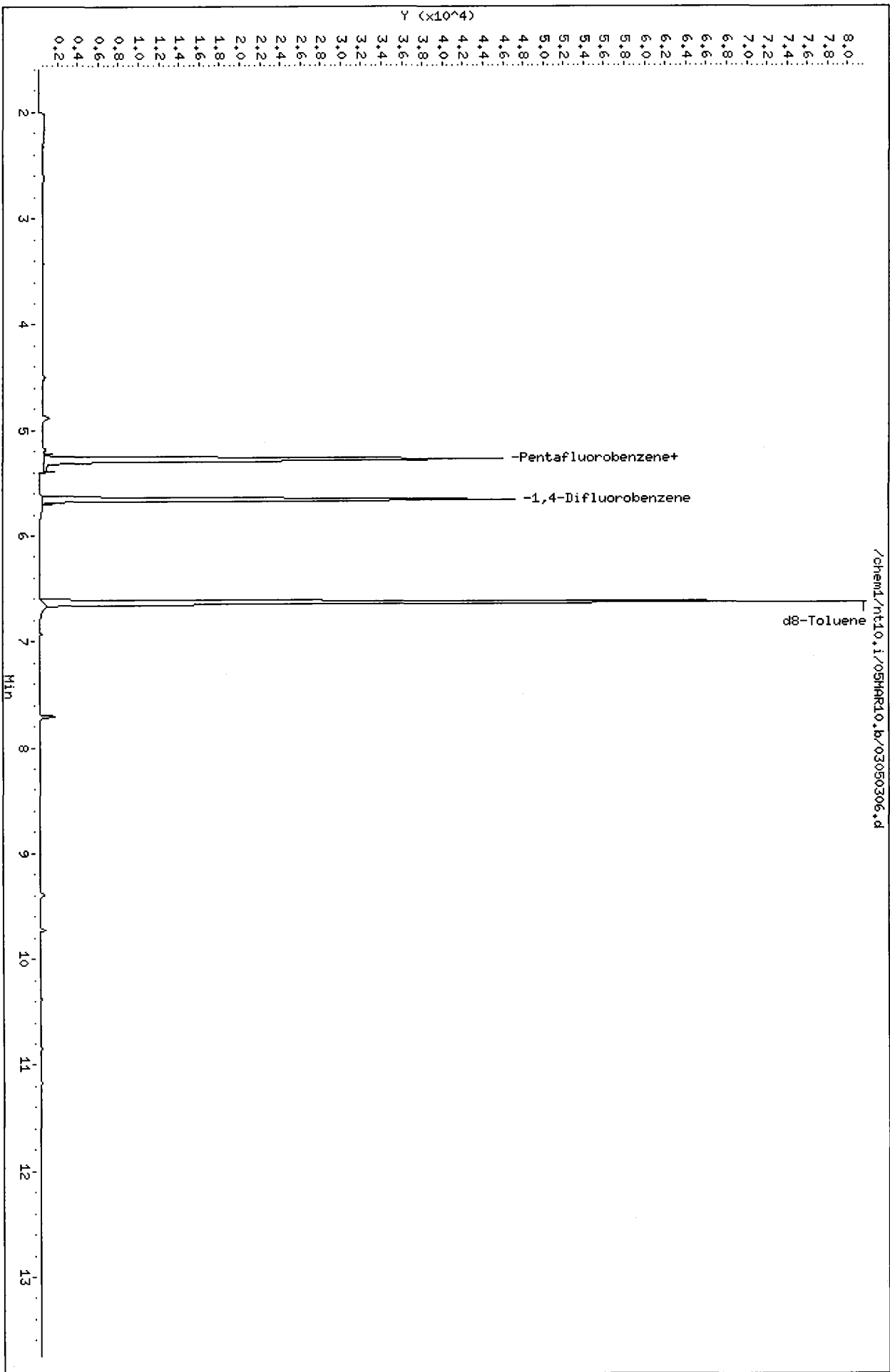
Column phase: RTX502.2

Instrument: nt10.i

Operator: JZ

Column diameter: 0.18

Page 4



050306 : 1337

MH
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050304.d
Report Date: 08-Mar-2010 07:14

Page 1

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050304.d
Lab Smp Id: LCS0305
Inj Date : 05-MAR-2010 08:51
Operator : JZ
Smp Info : LCS0305,10,10,0,
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:13 monicah
Cal Date : 04-MAR-2010 16:58
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030410.d
QC Sample: LCS
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.602	1.602	(0.304)	19566	1175.02	1175.0	
2 1,1-Dichloroethene	96	2.607	2.607	(0.495)	21036	976.030	976.03	
3 Trans-1,2-Dichloroethene	96	3.412	3.412	(0.647)	21027	964.726	964.73	
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	20880	1101.64	1101.6	
5 Benzene	78	5.186	5.177	(0.984)	88708	1088.83	1088.8	
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	41551	1000.00		
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	12841	965.801	965.80	
8 Trichloroethene	130	5.619	5.619	(0.993)	24177	1131.87	1131.9	
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	59226	1000.00		
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	68293	1034.58	1034.6	
11 Tetrachloroethene	166	6.937	6.937	(1.226)	26065	1155.28	1155.3	
12 1,1,2,2-Tetrachloroethane	83	8.723	8.735	(1.541)	9755	980.987	980.99	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050304.d
Lab Smp Id: LCS0305
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Level: 08
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	41551	-7.78
9 1,4-Difluorobenze	66146	33073	132292	59226	-10.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
 Sample Matrix: LIQUID
 Lab Smp Id: LCS0305
 Level:
 Data Type: MS DATA
 SpikeList File: sim.spk
 Sublist File: sim.sub
 Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
 Misc Info: 09-

Client SDG: 05MAR10
 Fraction: VOA
 RECOVERY REPORT
 SampleType: LCS
 Quant Type: ISTD

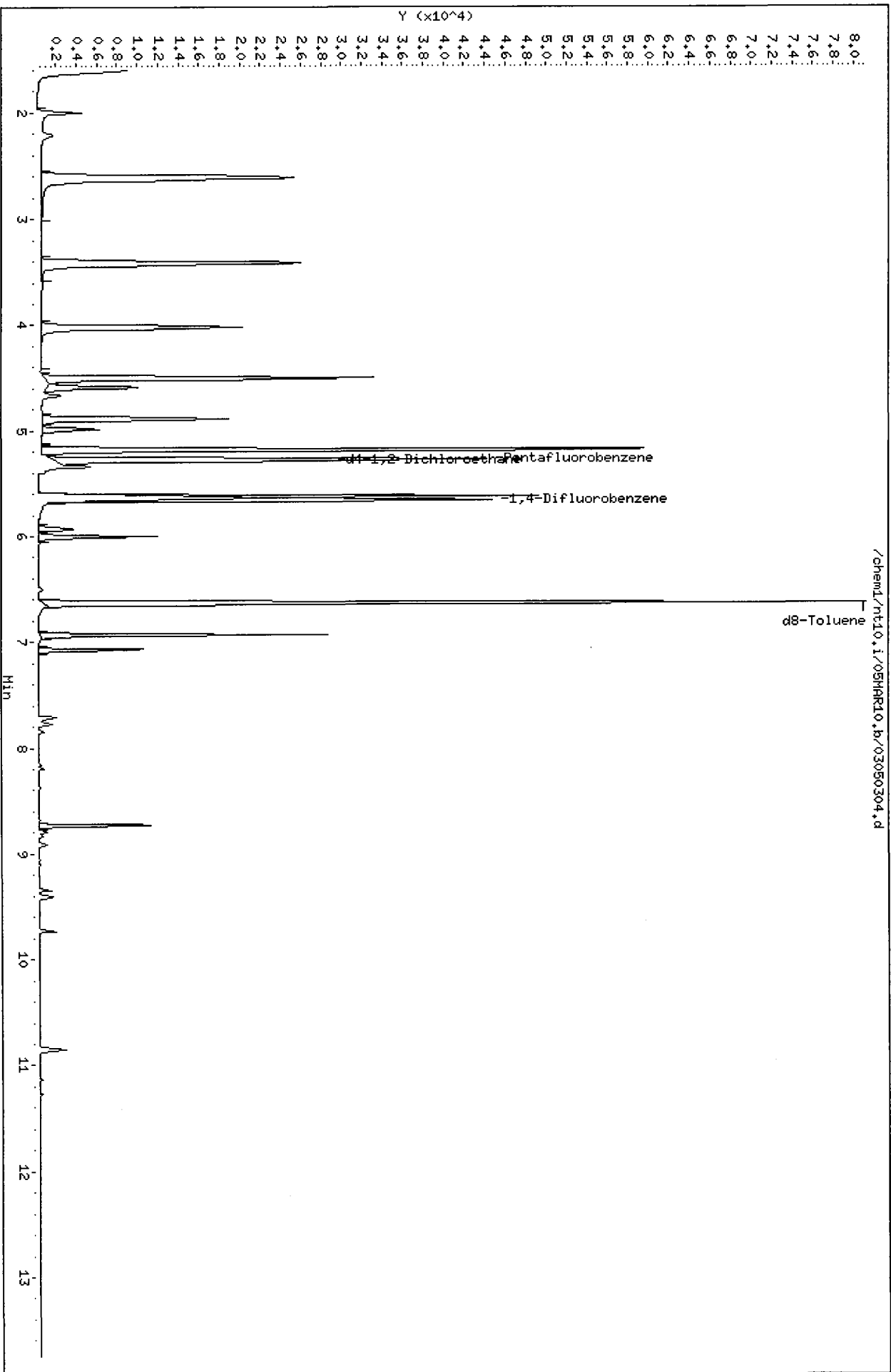
Operator: JZ

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1175.0	117.50	76-120
3 Trans-1,2-Dichloro	1000.0	964.73	96.47	70-130
2 1,1-Dichloroethene	1000.0	976.03	97.60	79-126
4 cis-1,2-dichloroet	1000.0	1101.6	110.16	76-127
5 Benzene	1000.0	1088.8	108.88	75-121
8 Trichloroethene	1000.0	1131.9	113.19	79-120
11 Tetrachloroethene	1000.0	1155.3	115.53	75-123
12 1,1,2,2-Tetrachlor	1000.0	980.99	98.10	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	965.80	96.58	70-130
\$ 10 d8-Toluene	1000.0	1034.6	103.46	70-130

Data File: /chem1/nt10.i/05HAR10.b/03050304.d
Date : 05-HAR-2010 08:51
Client ID:
Sample Info: LCS0305,10,10,0,
Column phase: RTX502.2

Instrument: nt10.i
Operator: JZ
Column diameter: 0.18



M.
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050305.d
Report Date: 08-Mar-2010 07:14

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050305.d
Lab Smp Id: LCSD0305
Inj Date : 05-MAR-2010 09:21
Operator : JZ
Smp Info : LCSD0305,10,10,0,
Misc Info : 09-
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:13 monicah
Cal Date : 04-MAR-2010 16:58
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Inst ID: nt10.i
Quant Type: ISTD
Cal File: 030410.d
QC Sample: LCSD
Compound Sublist: sim.sub

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62		1.602	1.602	(0.304)	18197	1128.88	1128.9
2 1,1-Dichloroethene	96		2.607	2.607	(0.495)	19003	910.829	910.83
3 Trans-1,2-Dichloroethene	96		3.412	3.412	(0.647)	20076	951.497	951.50
4 cis-1,2-dichloroethene	96		4.502	4.502	(0.854)	19989	1089.43	1089.4
5 Benzene	78		5.177	5.177	(0.982)	83804	1062.57	1062.6
* 6 Pentafluorobenzene	168		5.272	5.272	(1.000)	40224	1000.00	
\$ 7 d4-1,2-Dichloroethane	65		5.290	5.289	(1.003)	12549	975.000	975.00
8 Trichloroethene	130		5.619	5.619	(0.993)	22805	1079.21	1079.2
* 9 1,4-Difluorobenzene	114		5.661	5.661	(1.000)	58591	1000.00	
\$ 10 d8-Toluene	98		6.632	6.632	(1.172)	65972	1010.24	1010.2
11 Tetrachloroethene	166		6.926	6.937	(1.223)	25028	1121.32	1121.3
12 1,1,2,2-Tetrachloroethane	83		8.723	8.735	(1.541)	9020	916.906	916.91

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050305.d
Lab Smp Id: LCSD0305
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 09-

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Level: 08
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	40224	-10.72
9 1,4-Difluorobenze	66146	33073	132292	58591	-11.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
 Sample Matrix: LIQUID
 Lab Smp Id: LCSD0305
 Level:
 Data Type: MS DATA
 SpikeList File: sim.spk
 Sublist File: sim.sub
 Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
 Misc Info: 09-

Client SDG: 05MAR10
 Fraction: VOA
 RECOVERY REPORT
 SampleType: LCSD
 Quant Type: ISTD

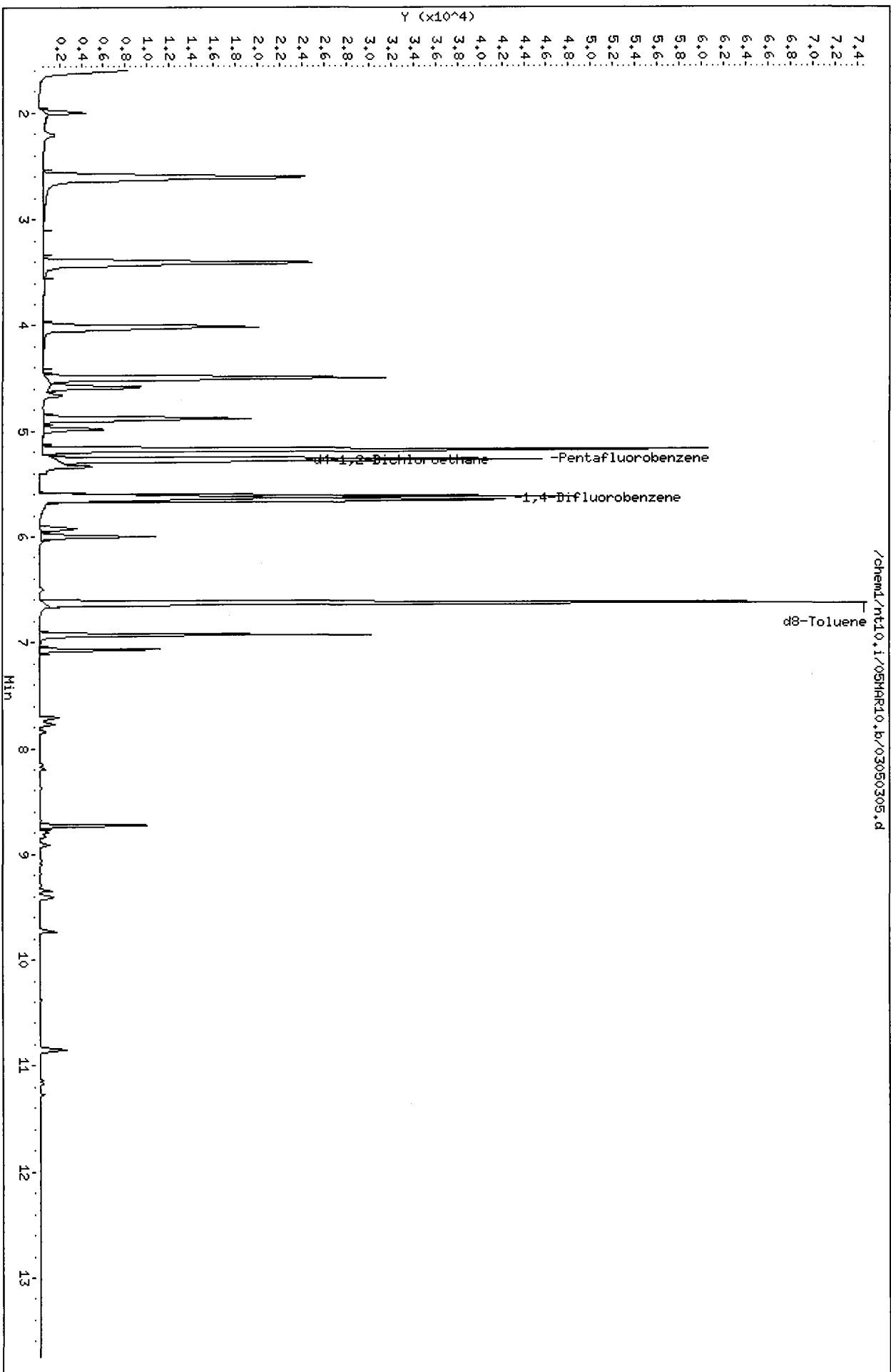
Operator: JZ

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1128.9	112.89	76-120
3 Trans-1,2-Dichloro	1000.0	951.50	95.15	70-130
2 1,1-Dichloroethene	1000.0	910.83	91.08	79-126
4 cis-1,2-dichloroet	1000.0	1089.4	108.94	76-127
5 Benzene	1000.0	1062.6	106.26	75-121
8 Trichloroethene	1000.0	1079.2	107.92	79-120
11 Tetrachloroethene	1000.0	1121.3	112.13	75-123
12 1,1,2,2-Tetrachlor	1000.0	916.91	91.69	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	975.00	97.50	70-130
\$ 10 d8-Toluene	1000.0	1010.2	101.02	70-130


Data File: /chem/nt10.1/05HAR10.b/03050305.d
Date : 05-HAR-2010 09:21
Client ID:
Sample Info: LCSD0305,10,10,0,
Column phase: RTX502.2

Instrument: nt10.1
Operator: JZ
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB
Page 1 of 1 MATRIX SPIKE

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: 
Reported: 03/09/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Instrument/Analyst: NT10/MH
Date Analyzed: 03/05/10 18:08

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.1%
d8-Toluene	100%

M:
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050322.d
Report Date: 08-Mar-2010 07:15

Page 1

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050322.d
Lab Smp Id: QL34AMS Client Smp ID: CB31A022310GRAB MS
Inj Date : 05-MAR-2010 18:08
Operator : JZ Inst ID: nt10.i
Smp Info : QL34AMS,10,10,0,
Misc Info : 10-4685
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:14 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.614	1.602	(0.306)	17471	1076.61	1076.6
2 1,1-Dichloroethene	96	2.616	2.607	(0.496)	19280	917.925	917.93
3 Trans-1,2-Dichloroethene	96	3.420	3.412	(0.649)	19654	925.247	925.25
4 cis-1,2-dichloroethene	96	4.502	4.502	(0.854)	20627	1116.68	1116.7
5 Benzene	78	5.186	5.177	(0.984)	90994	1146.03	1146.0
* 6 Pentafluorobenzene	168	5.272	5.272	(1.000)	40494	1000.00	
\$ 7 d4-1,2-Dichloroethane	65	5.289	5.289	(1.003)	12578	970.718	970.72
8 Trichloroethene	130	5.619	5.619	(0.993)	24037	1131.15	1131.2
* 9 1,4-Difluorobenzene	114	5.660	5.661	(1.000)	58919	1000.00	
\$ 10 d8-Toluene	98	6.632	6.632	(1.172)	65934	1004.04	1004.0
11 Tetrachloroethene	166	6.925	6.937	(1.223)	25439	1133.41	1133.4
12 1,1,2,2-Tetrachloroethane	83	8.723	8.735	(1.541)	9554	965.706	965.71

QL34:00646

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050322.d
Lab Smp Id: QL34AMS
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4685

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Client Smp ID: CB31A022310GRAB MS
Level: 08
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	40494	-10.12
9 1,4-Difluorobenze	66146	33073	132292	58919	-10.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: QL34AMS
Level:
Data Type: MS DATA
SpikeList File: sim.spk
Sublist File: sim.sub
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4685

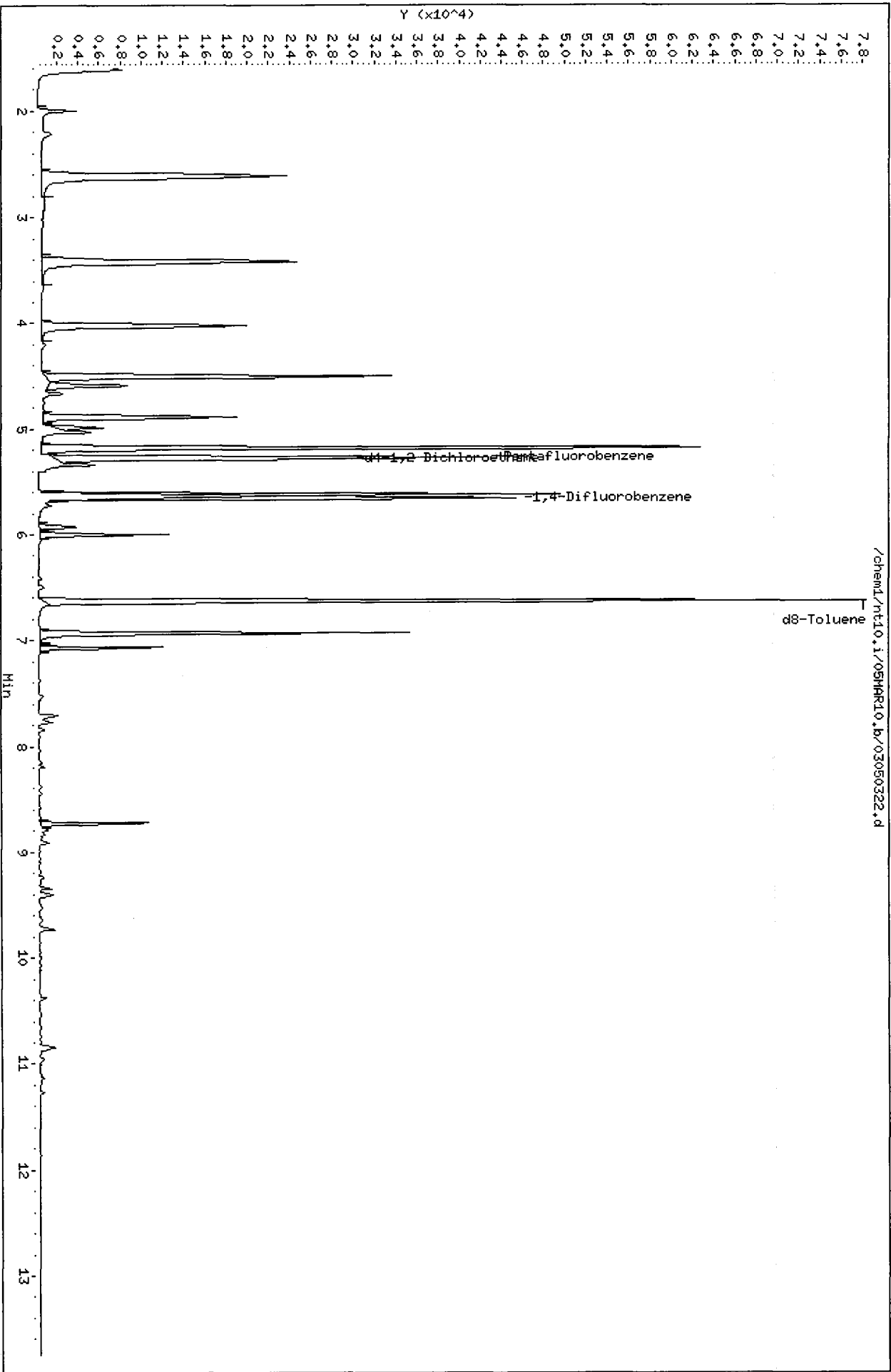
Client SDG: QL34
Fraction: VOA
Client Smp ID: CB31A022310GRAB MS
RECOVERY REPORT Operator: JZ
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1076.6	107.66	76-120
3 Trans-1,2-Dichloro	1000.0	925.25	92.52	70-130
2 1,1-Dichloroethene	1000.0	917.93	91.79	79-126
4 cis-1,2-dichloroet	1000.0	1116.7	111.67	76-127
5 Benzene	1000.0	1146.0	114.60	75-121
8 Trichloroethene	1000.0	1131.2	113.12	79-120
11 Tetrachloroethene	1000.0	1133.4	113.34	75-123
12 1,1,2,2-Tetrachlor	1000.0	965.71	96.57	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	970.72	97.07	70-130
\$ 10 d8-Toluene	1000.0	1004.0	100.40	70-130

Data File: /chem1/nt10.1/05HAR10.b/03050322.d
 Date : 05-HAR-2010 18:08
 Client ID: CB31A022310GRAB HS
 Sample Info: QL34AHS,10,10,0,
 Column phase: RTX502.2

Instrument: nt10.1
 Operator: JZ
 Column diameter: 0.18



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10.i

Sample Info: QL34AMS,10,10,0,

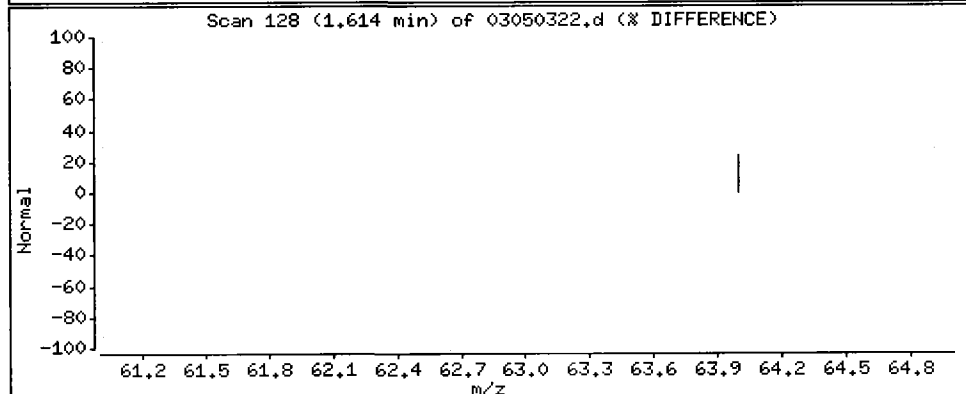
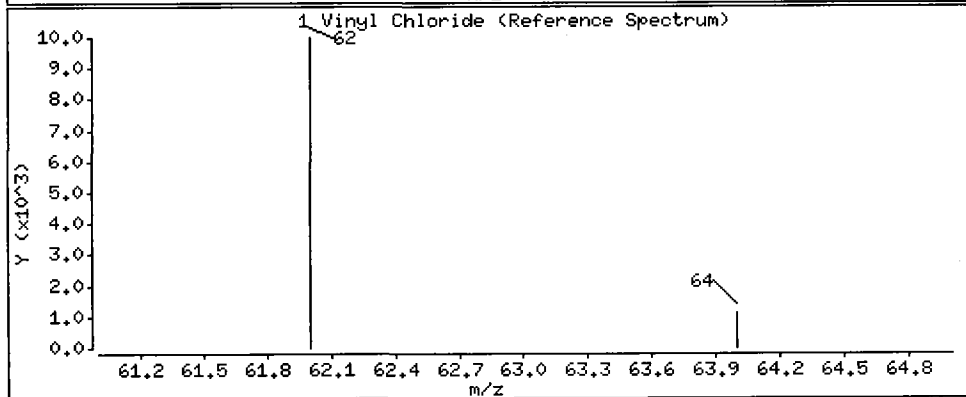
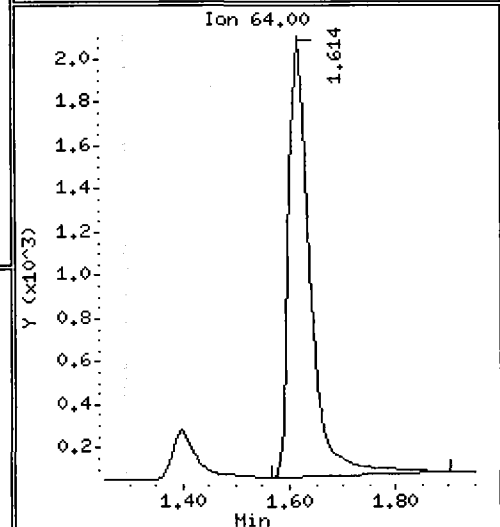
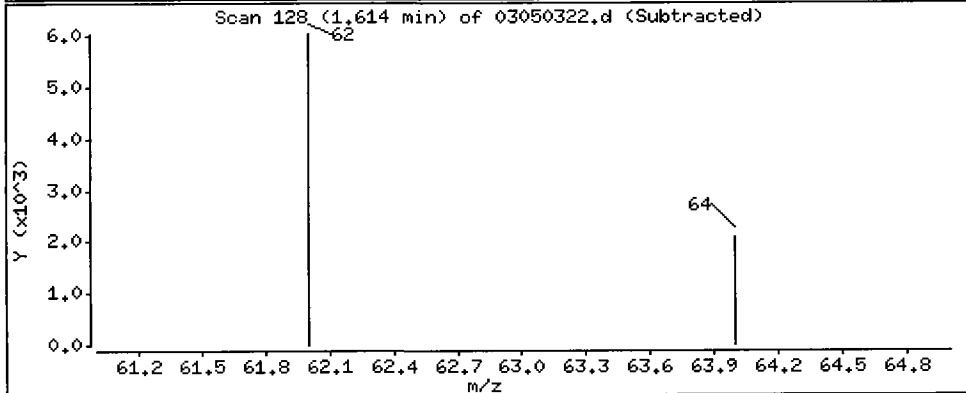
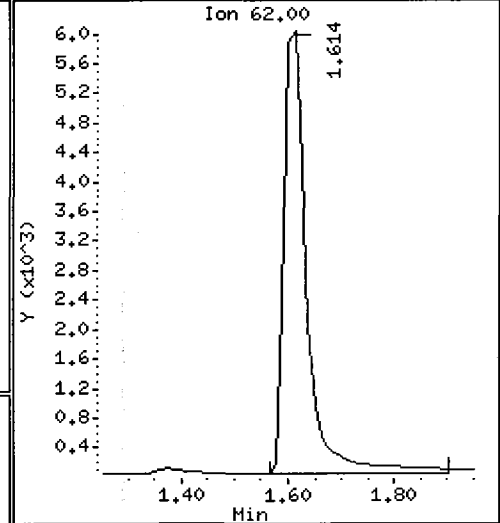
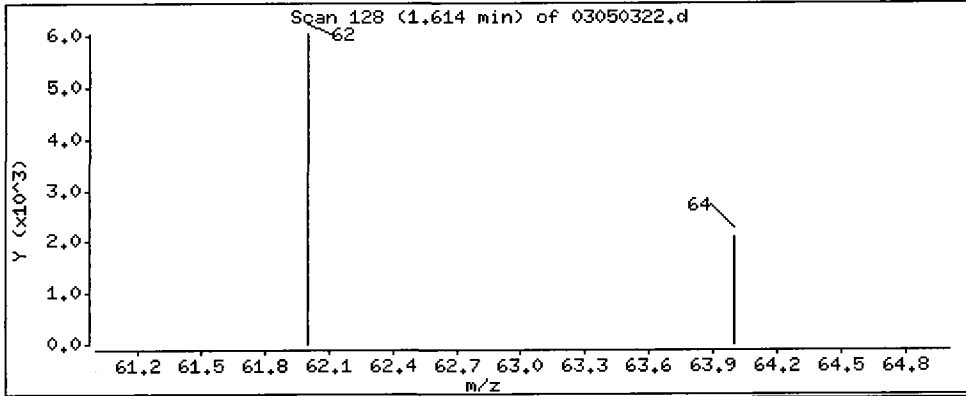
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

1 Vinyl Chloride

Concentration: 1076.6 ug/L



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10.i

Sample Info: QL34AMS,10,10,0,

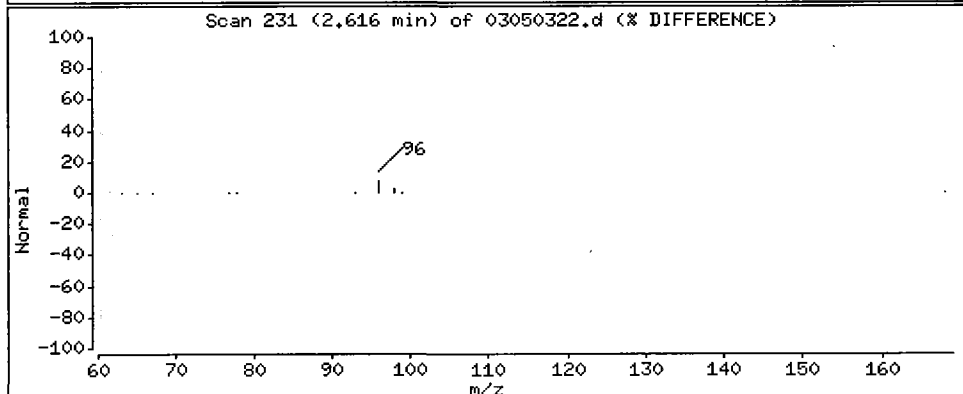
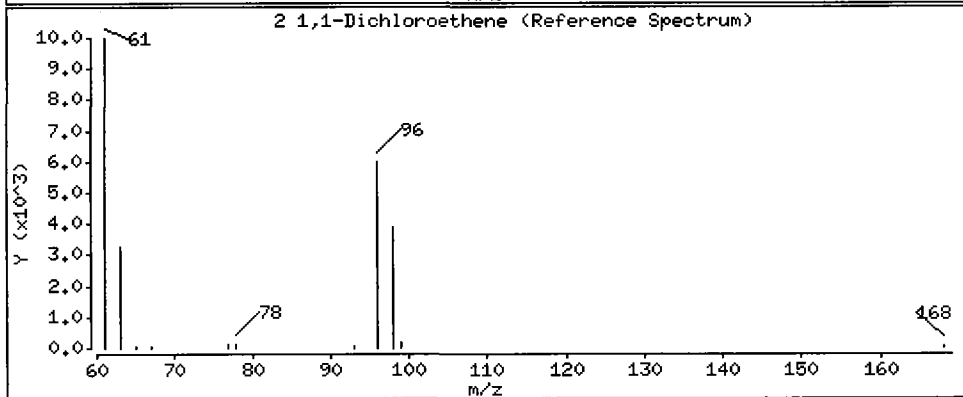
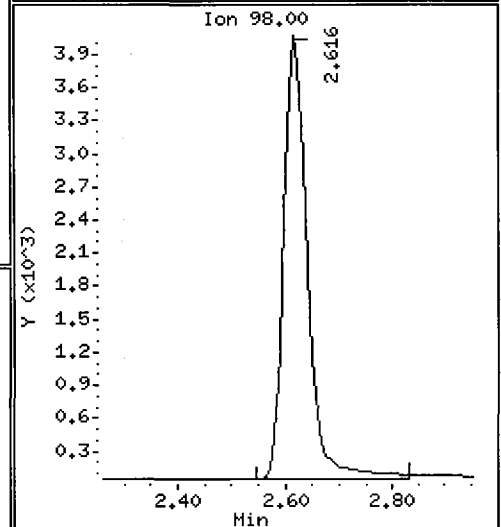
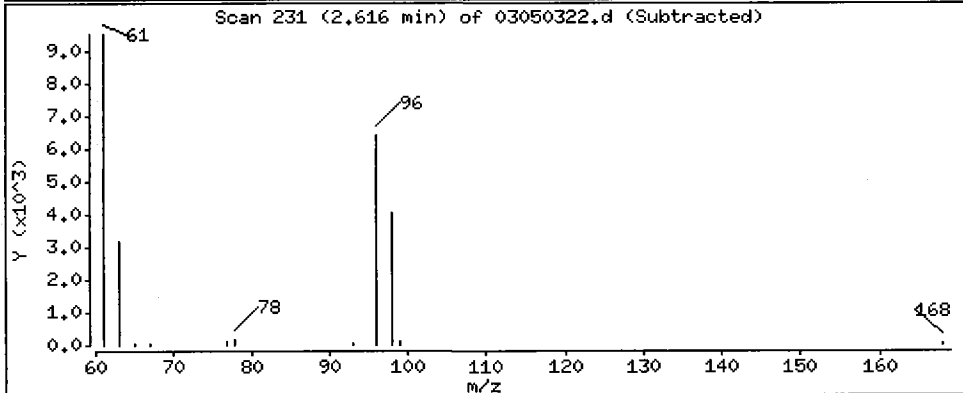
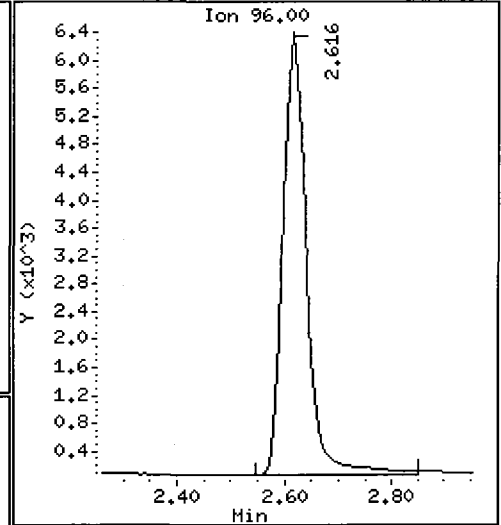
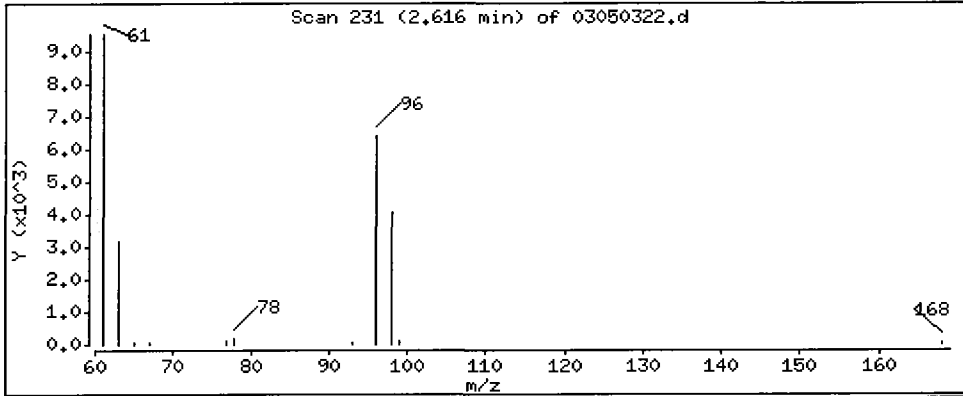
Operator: JZ

Column phase: RTX502,2

Column diameter: 0.18

2 1,1-Dichloroethene

Concentration: 917.93 ug/L



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10.i

Sample Info: QL34MS,10,10,0,

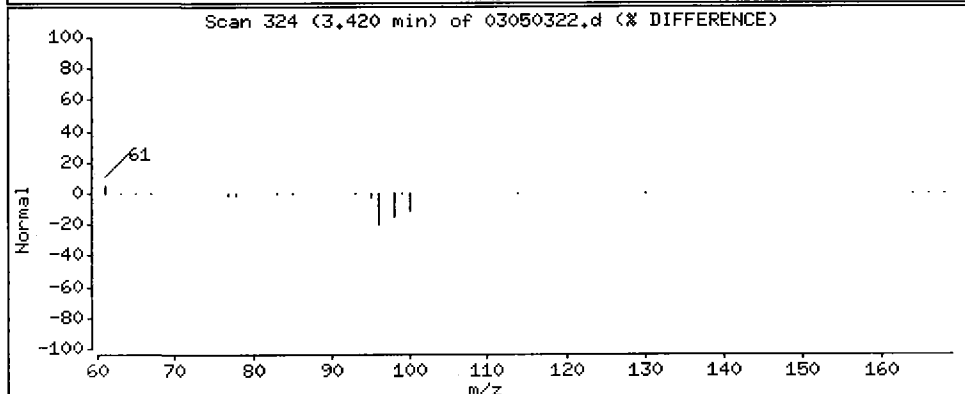
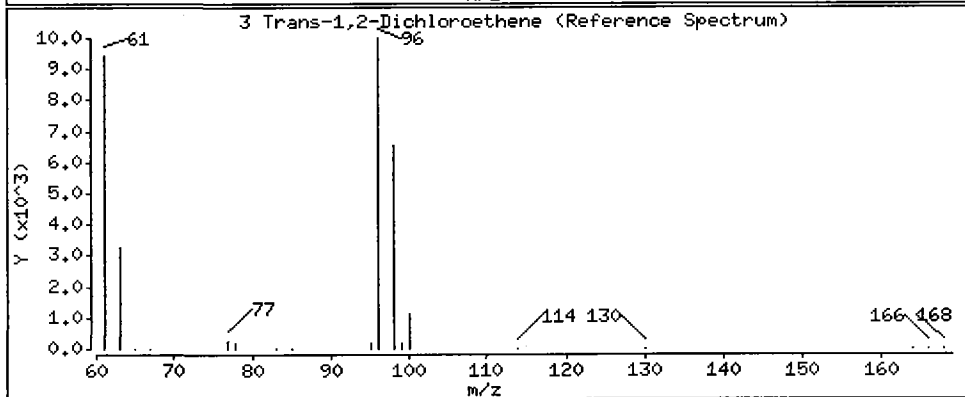
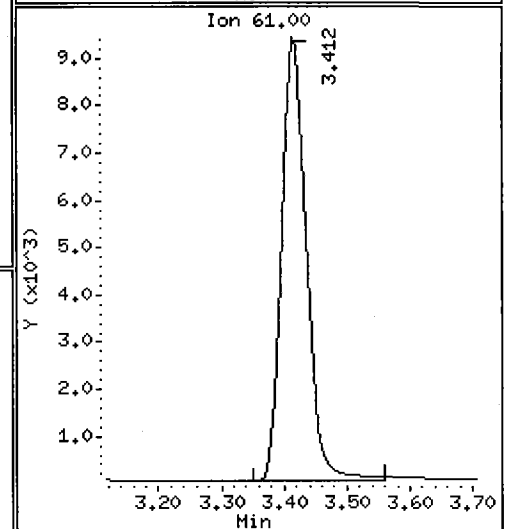
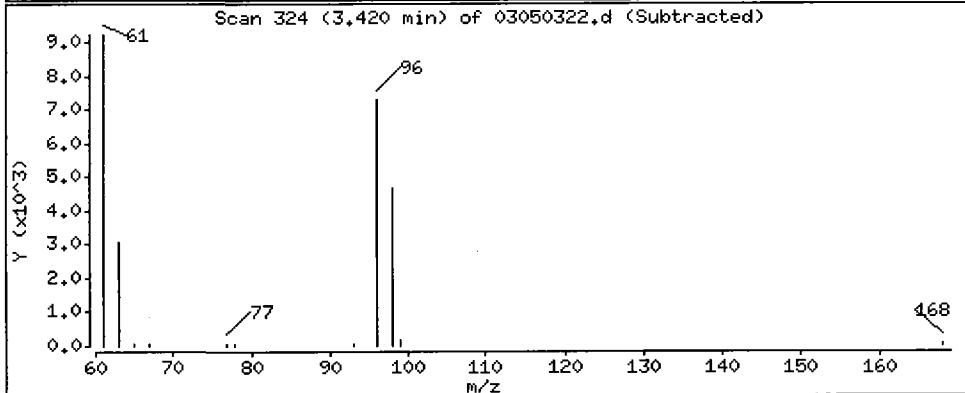
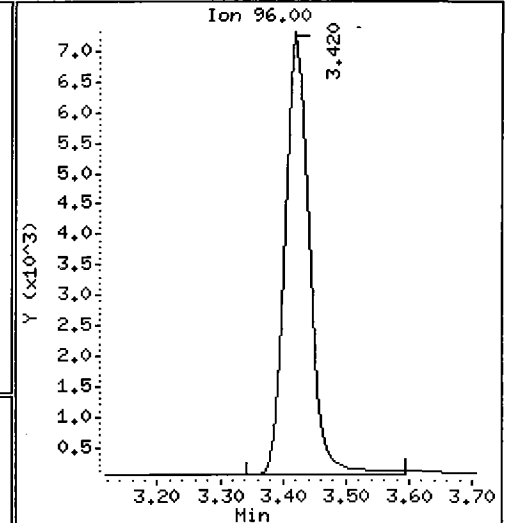
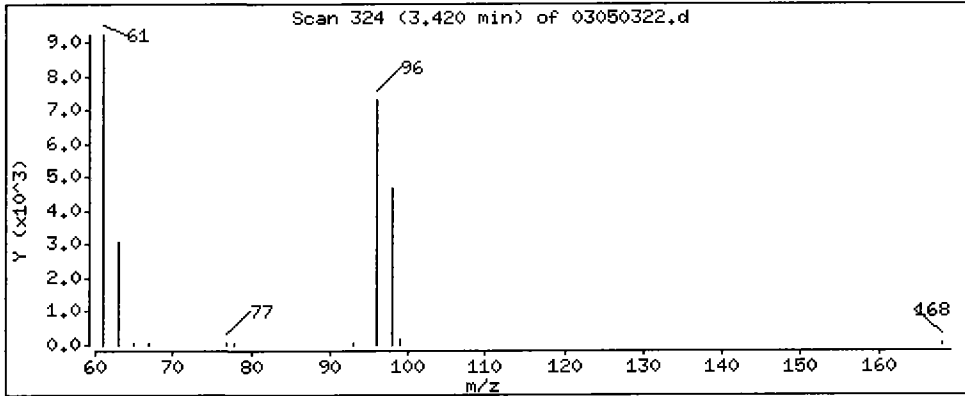
Operator: JZ

Column phase: RTX502,2

Column diameter: 0.18

3 Trans-1,2-Dichloroethene

Concentration: 925.25 ug/L



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10,i

Sample Info: QL34AMS,10,10,0,

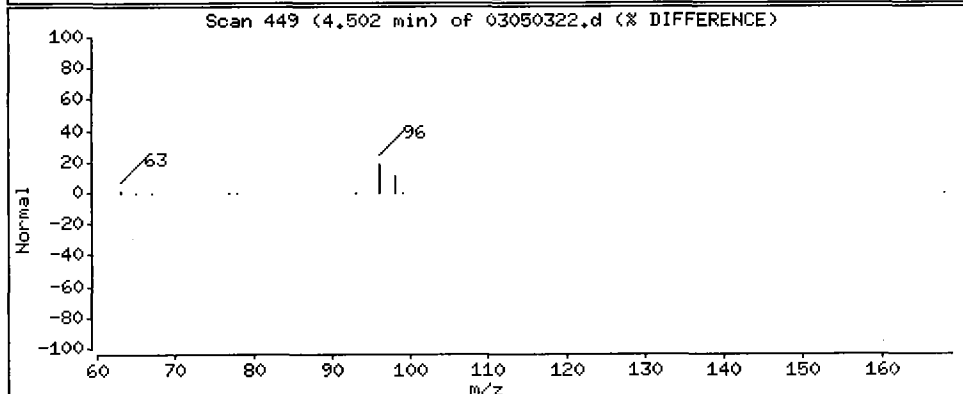
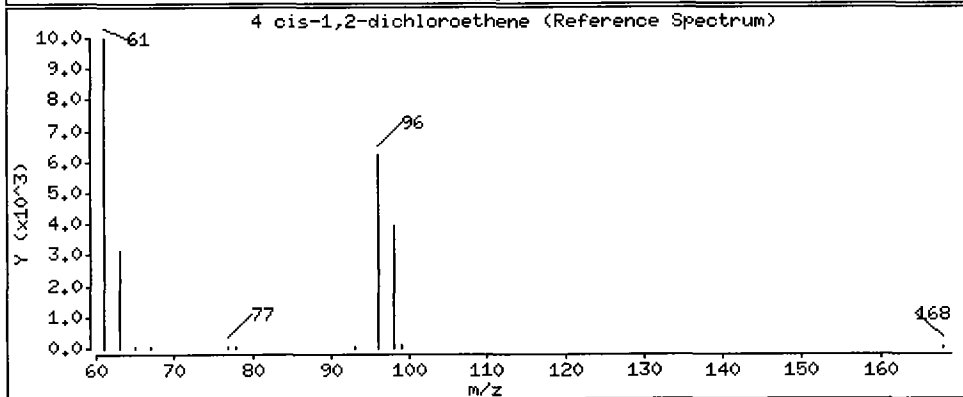
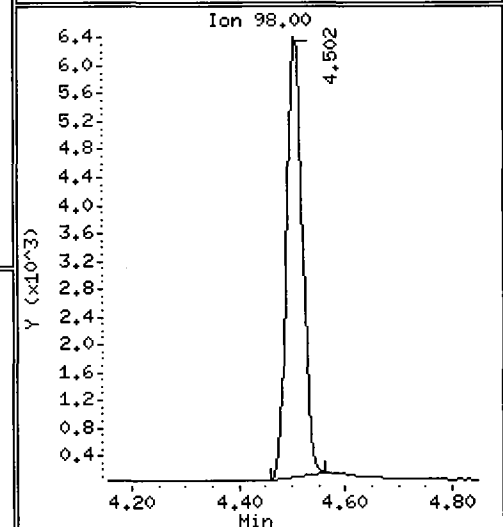
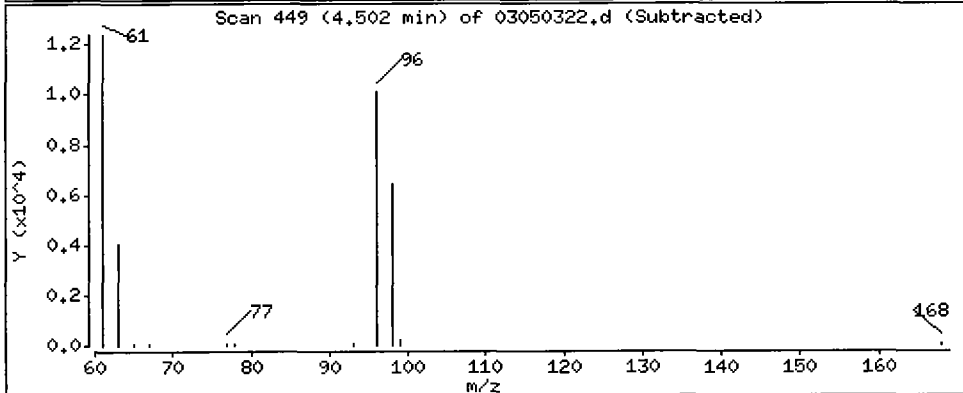
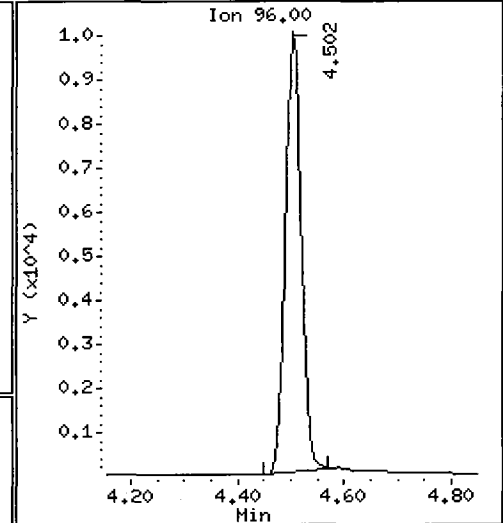
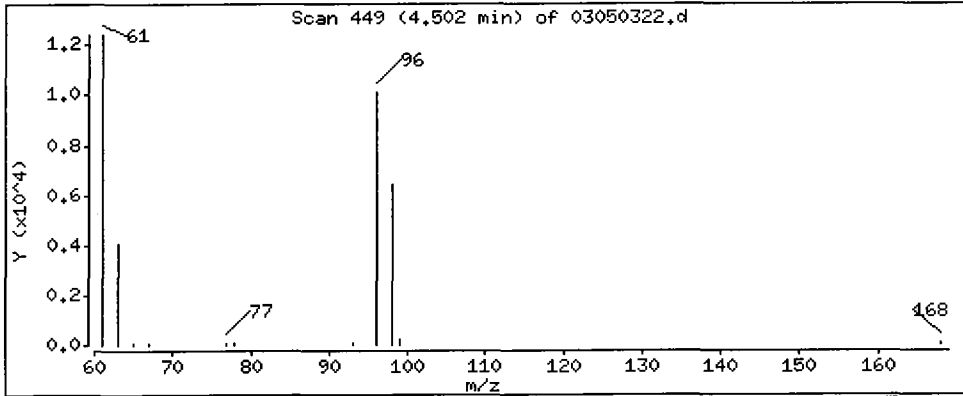
Operator: JZ

Column phase: RTX502,2

Column diameter: 0,18

4 cis-1,2-dichloroethene

Concentration: 1116.7 ug/L



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10.i

Sample Info: QL34AMS,10,10,0,

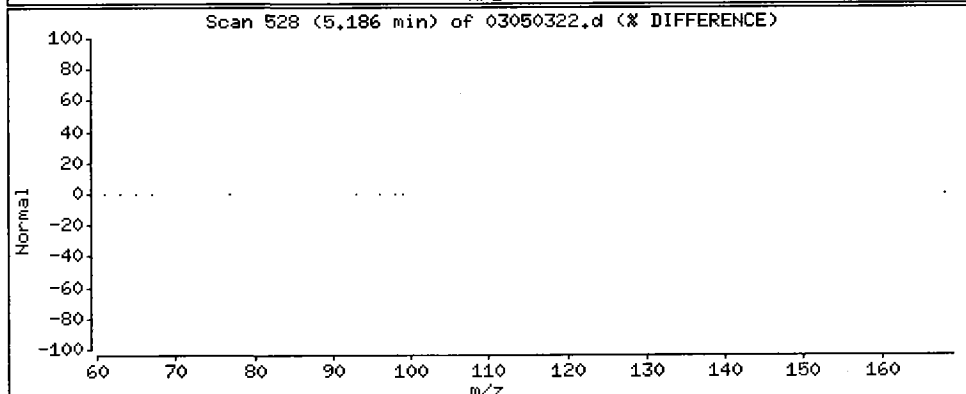
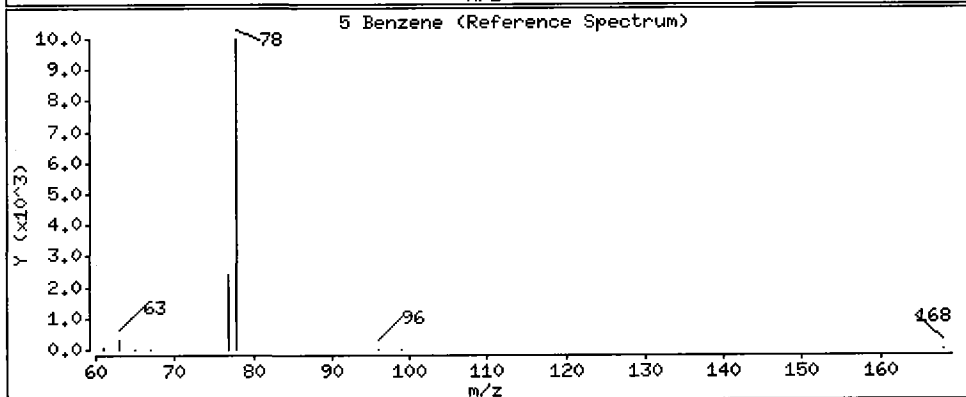
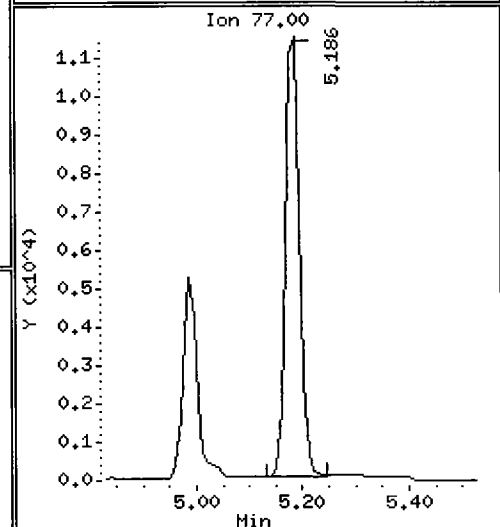
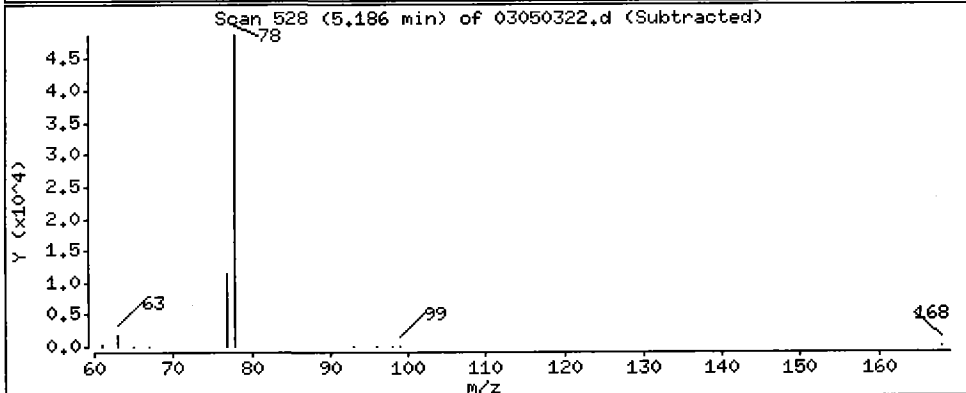
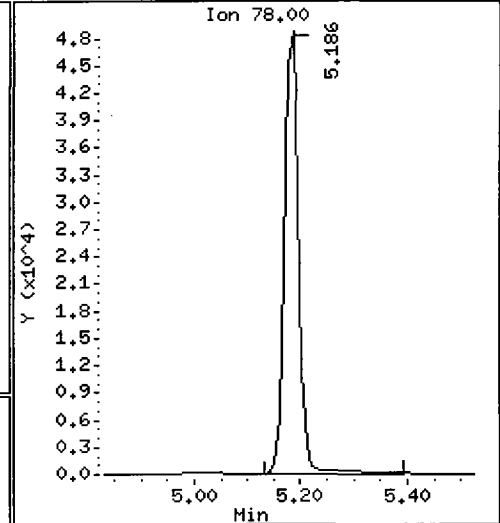
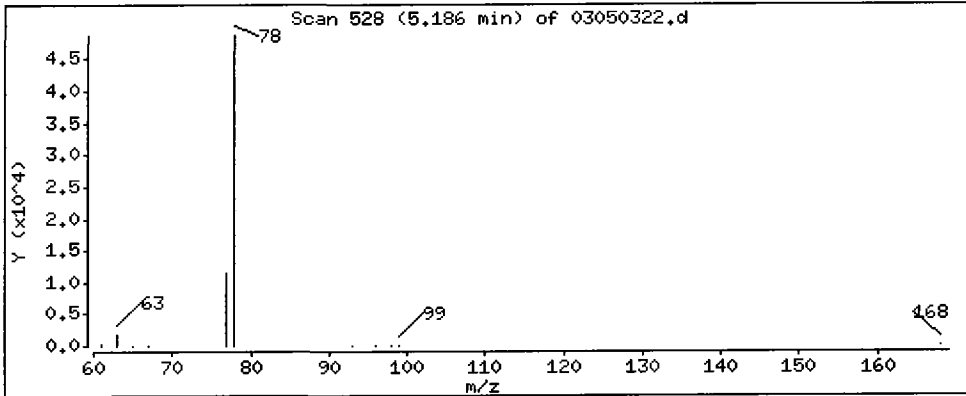
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

5 Benzene

Concentration: 1146.0 ug/L



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10.i

Sample Info: QL34AMS,10,10,0,

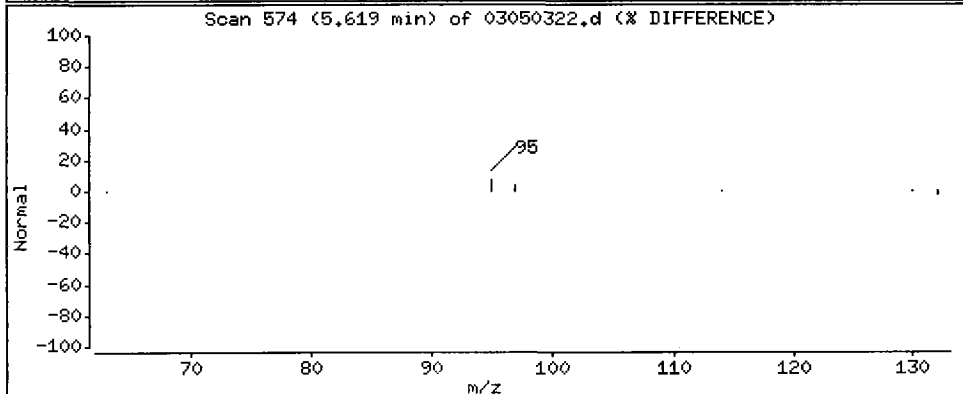
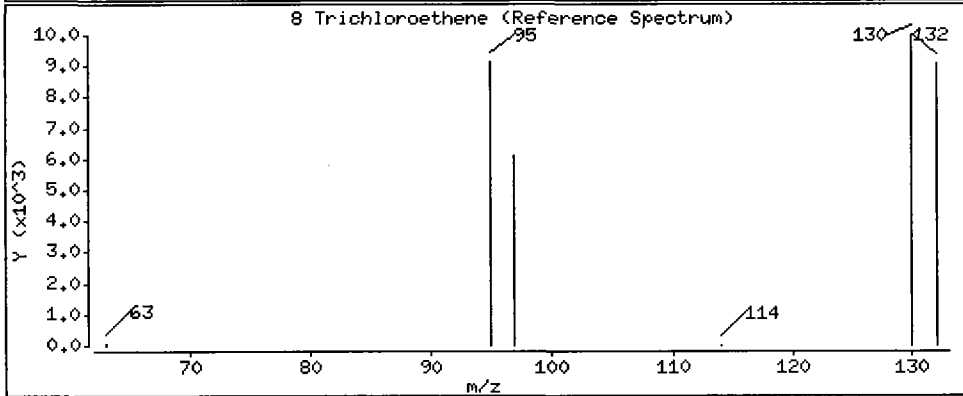
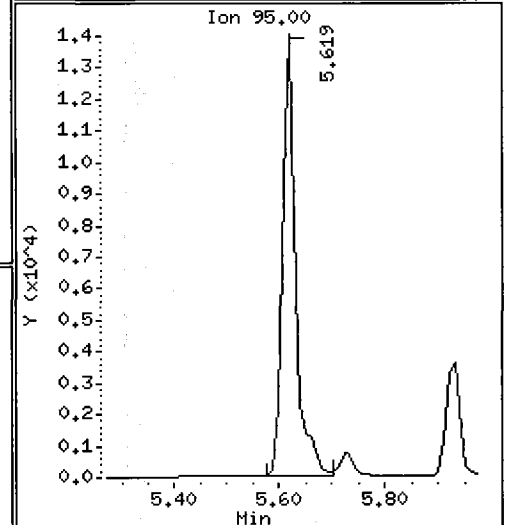
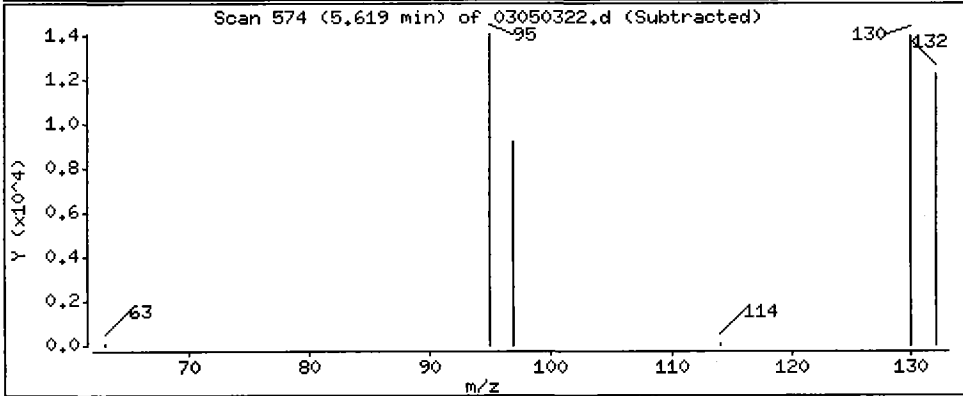
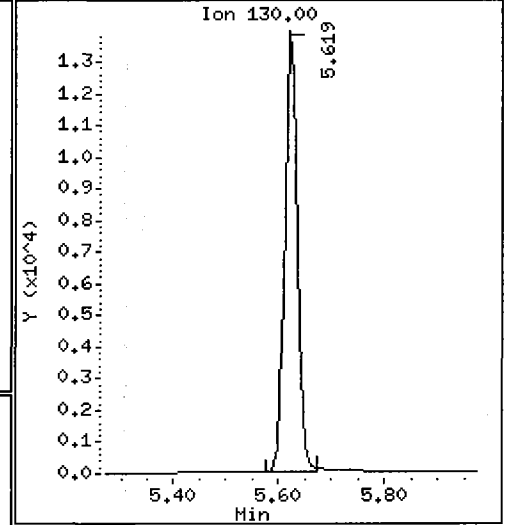
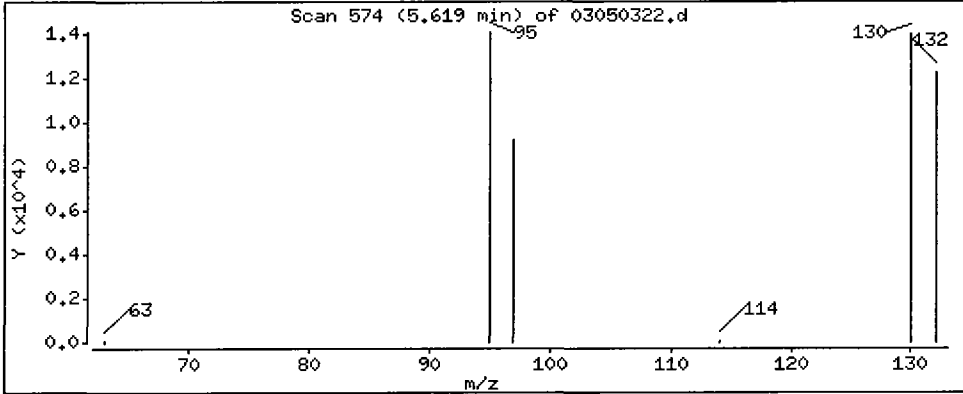
Operator: JZ

Column phase: RTX502,2

Column diameter: 0.18

8 Trichloroethene

Concentration: 1131.2 ug/L



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10.i

Sample Info: QL34AMS,10,10,0,

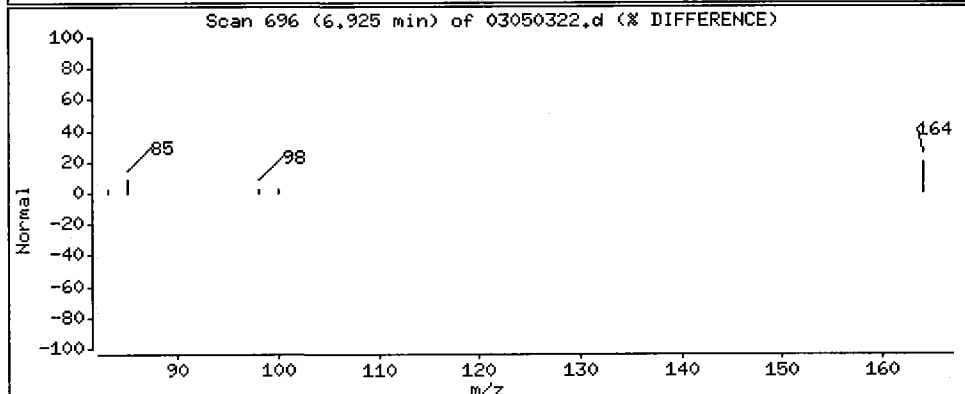
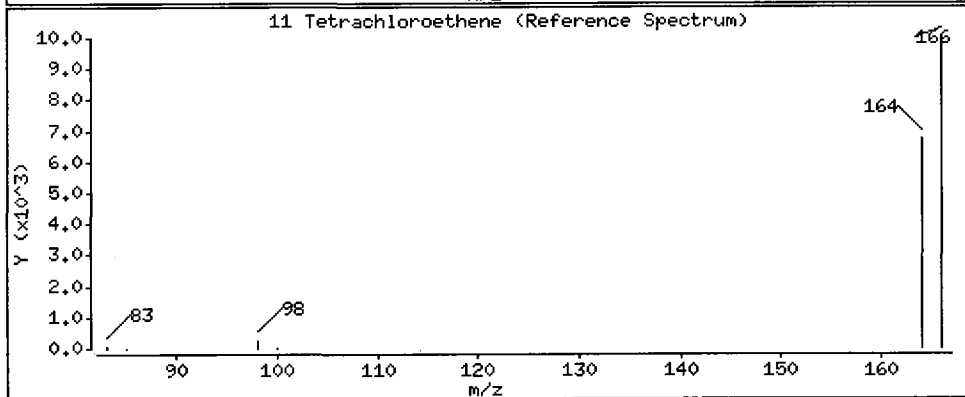
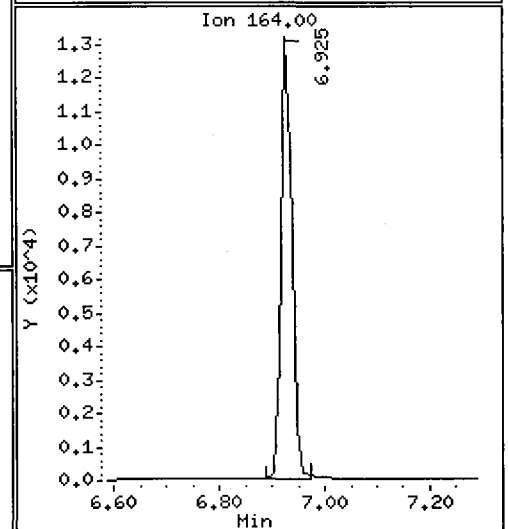
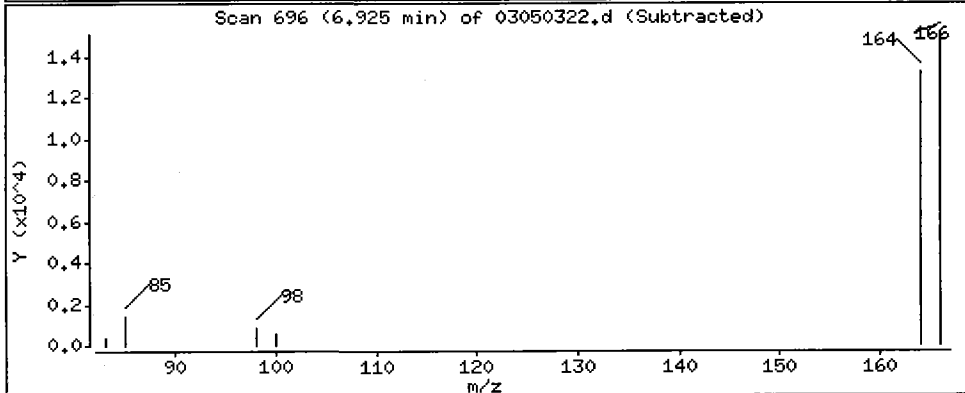
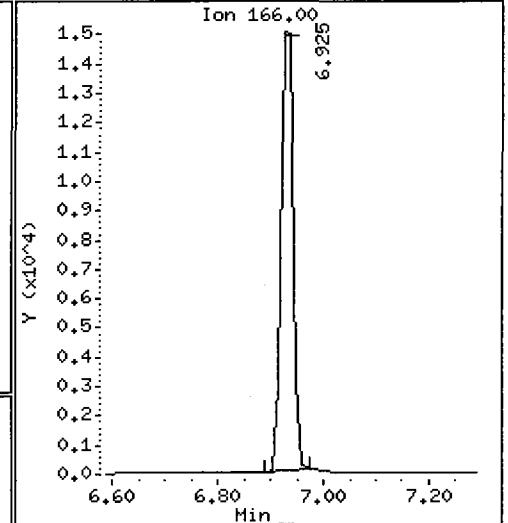
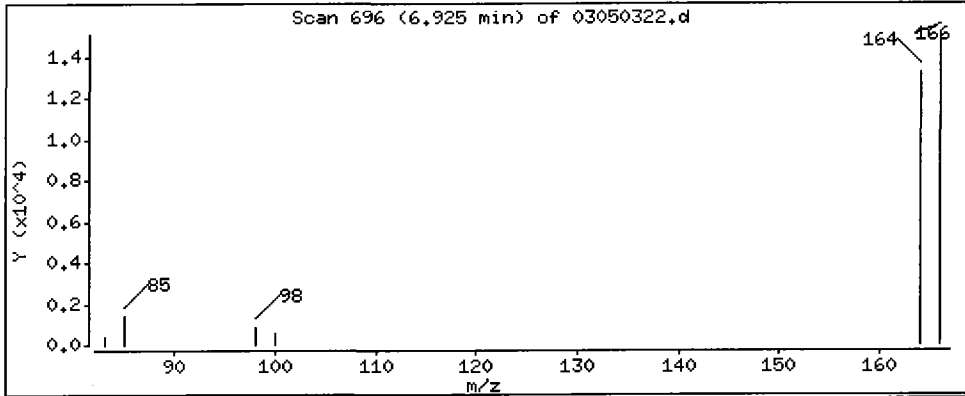
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

11 Tetrachloroethene

Concentration: 1133.4 ug/L



Date : 05-MAR-2010 18:08

Client ID: CB31A022310GRAB MS

Instrument: nt10.i

Sample Info: QL34AMS,10,10,0,

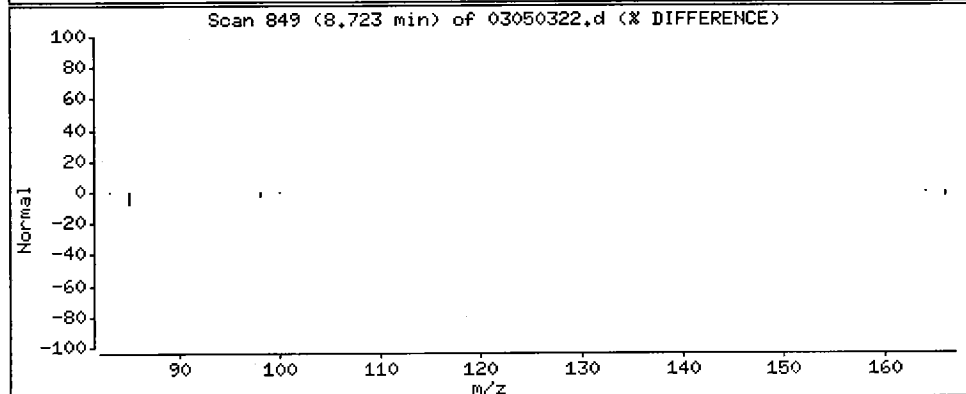
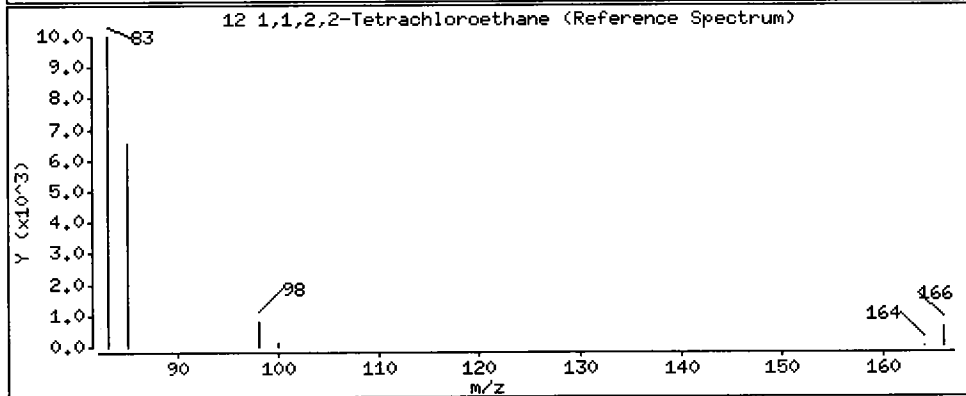
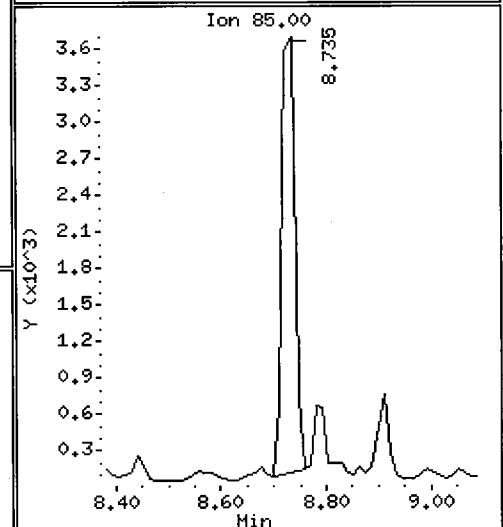
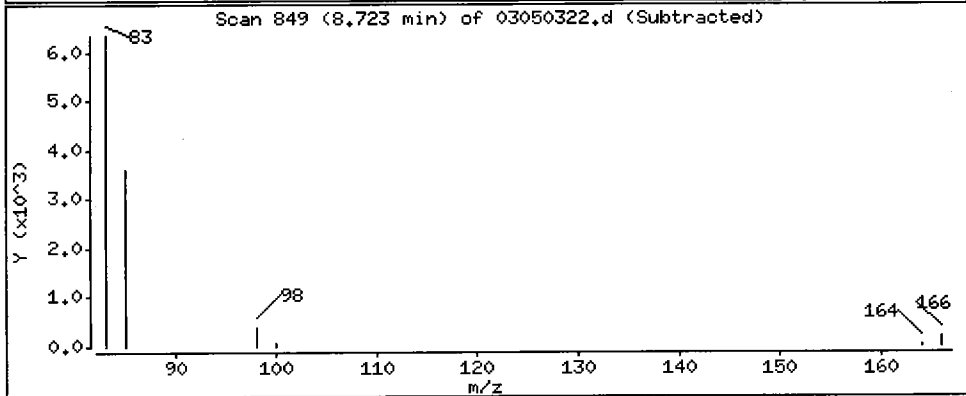
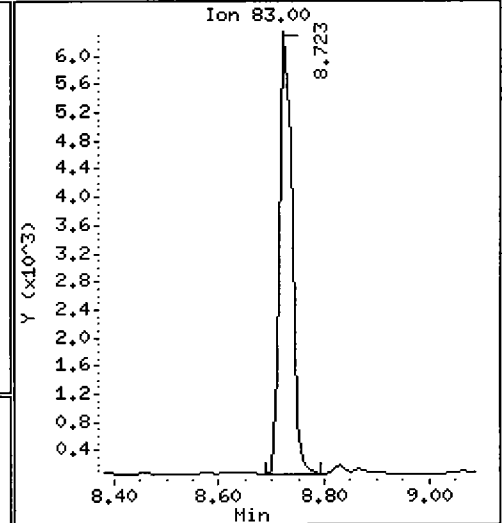
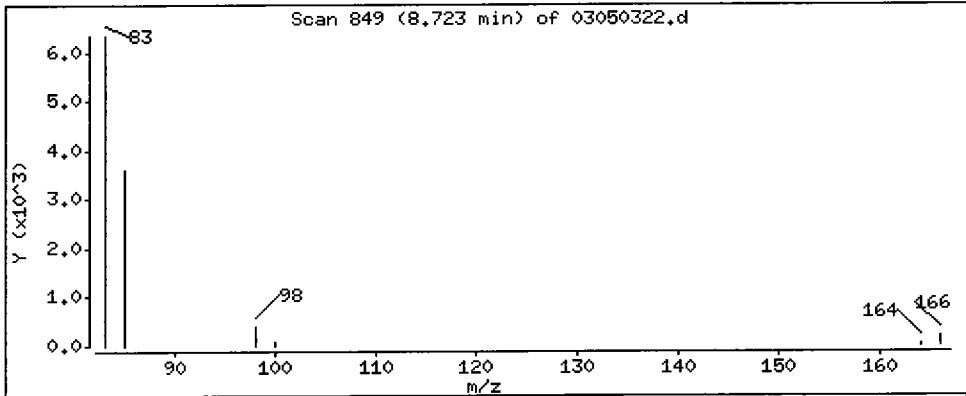
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

12 1,1,2,2-Tetrachloroethane

Concentration: 965.71 ug/L



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: CB31A022310GRAB
Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: QL34A

QC Report No: QL34-Floyd-Snider

LIMS ID: 10-4685

Project: Lora Lake Apartments

Matrix: Water

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 02/23/10

Reported: 03/09/10

Date Received: 02/24/10

Instrument/Analyst: NT10/MH

Sample Amount: 10.0 mL

Date Analyzed: 03/05/10 18:38

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.9%
d8-Toluene	101%

MH
3/8/10

Data File: /chem1/nt10.i/05MAR10.b/03050323.d
Report Date: 08-Mar-2010 07:15

Analytical Resources, Inc.

Data file : /chem1/nt10.i/05MAR10.b/03050323.d
Lab Smp Id: QL34AMSD Client Smp ID: CB31A022310GRAB MSD
Inj Date : 05-MAR-2010 18:38
Operator : JZ Inst ID: nt10.i
Smp Info : QL34AMSD,10,10,0,
Misc Info : 10-4685
Comment :
Method : /chem1/nt10.i/05MAR10.b/SIM030410.m
Meth Date : 08-Mar-2010 07:14 monicah Quant Type: ISTD
Cal Date : 04-MAR-2010 16:58 Cal File: 030410.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 08-Mar-2010 07:1 * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62		1.602	1.602	(0.304)	17391	1114.70	1114.7
2 1,1-Dichloroethene	96		2.607	2.607	(0.494)	17993	891.026	891.03
3 Trans-1,2-Dichloroethene	96		3.412	3.412	(0.647)	18794	920.314	920.31
4 cis-1,2-dichloroethene	96		4.502	4.502	(0.854)	19225	1082.59	1082.6
5 Benzene	78		5.177	5.177	(0.982)	84147	1102.33	1102.3
* 6 Pentafluorobenzene	168		5.272	5.272	(1.000)	38931	1000.00	
\$ 7 d4-1,2-Dichloroethane	65		5.289	5.289	(1.003)	12323	989.236	989.24
8 Trichloroethene	130		5.619	5.619	(0.993)	21994	1082.17	1082.2
* 9 1,4-Difluorobenzene	114		5.660	5.661	(1.000)	56351	1000.00	
\$ 10 d8-Toluene	98		6.632	6.632	(1.172)	63423	1009.81	1009.8
11 Tetrachloroethene	166		6.925	6.937	(1.223)	23141	1077.98	1078.0
12 1,1,2,2-Tetrachloroethane	83		8.723	8.735	(1.541)	9504	1004.42	1004.4

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: 03050323.d
Lab Smp Id: QL34AMSD
Analysis Type: VOA
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
Misc Info: 10-4685

Calibration Date: 05-MAR-2010
Calibration Time: 08:07
Client Smp ID: CB31A022310GRAB MSD
Level: 08
Sample Type: Water

Test Mode: Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	45054	22527	90108	38931	-13.59
9 1,4-Difluorobenze	66146	33073	132292	56351	-14.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
6 Pentafluorobenzen	5.27	4.77	5.77	5.27	0.00
9 1,4-Difluorobenze	5.66	5.16	6.16	5.66	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snyder
 Sample Matrix: LIQUID
 Lab Smp Id: QL34AMSD
 Level:
 Data Type: MS DATA
 SpikeList File: sim.spk
 Sublist File: sim.sub
 Method File: /chem1/nt10.i/05MAR10.b/SIM030410.m
 Misc Info: 10-4685

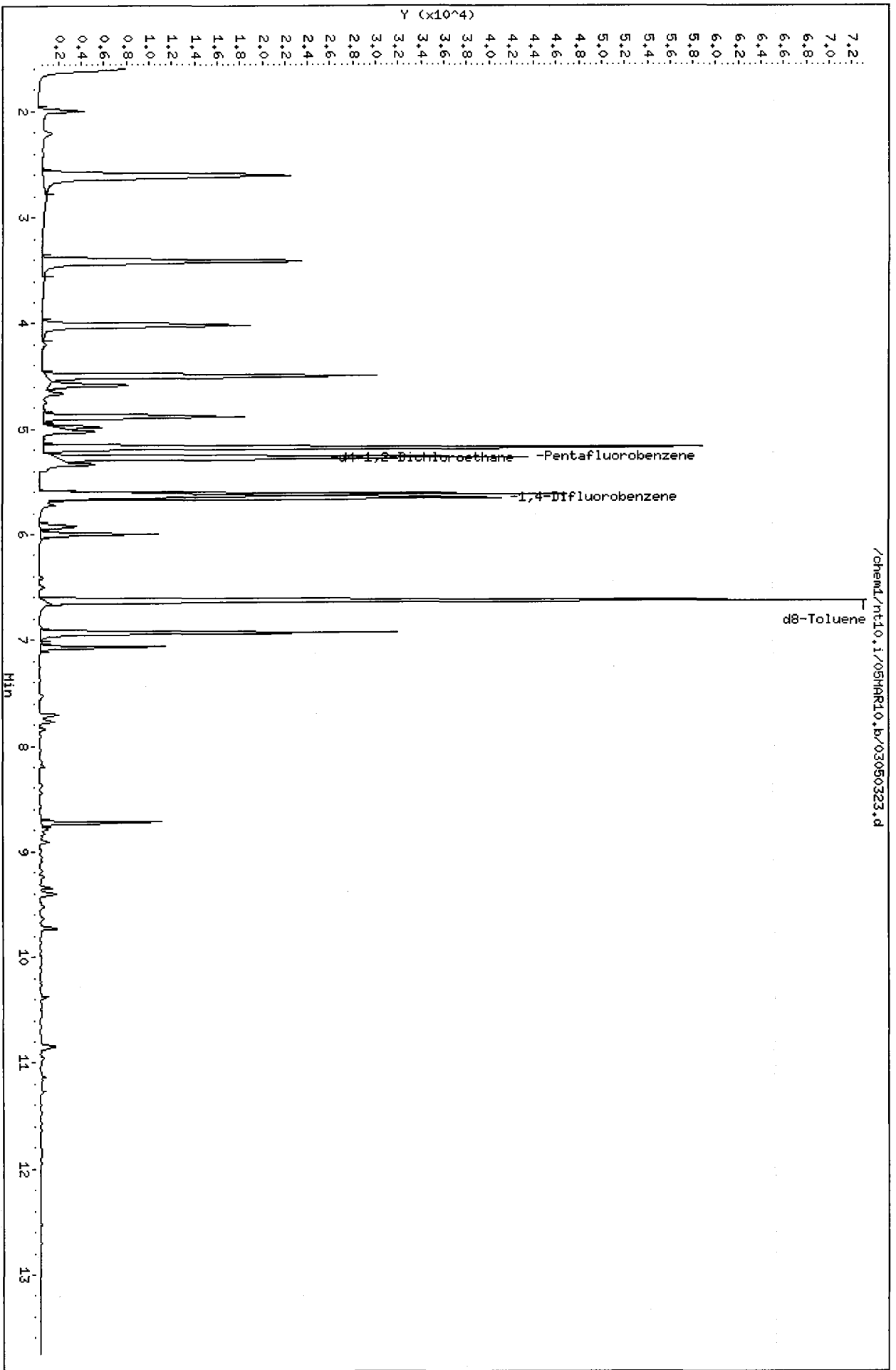
Client SDG: QL34
 Fraction: VOA
 Client Smp ID: CB31A022310GRAB MSD
 RECOVERY REPORT Operator: JZ
 SampleType: MSD
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1114.7	111.47	76-120
3 Trans-1,2-Dichloro	1000.0	920.31	92.03	70-130
2 1,1-Dichloroethene	1000.0	891.03	89.10	79-126
4 cis-1,2-dichloroet	1000.0	1082.6	108.26	76-127
5 Benzene	1000.0	1102.3	110.23	75-121
8 Trichloroethene	1000.0	1082.2	108.22	79-120
11 Tetrachloroethene	1000.0	1078.0	107.80	75-123
12 1,1,2,2-Tetrachlor	1000.0	1004.4	100.44	72-129

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 d4-1,2-Dichloroeth	1000.0	989.24	98.92	70-130
\$ 10 d8-Toluene	1000.0	1009.8	100.98	70-130

Data File: /chem1/nt10.1/05HAR10.b/03050323.d
Date : 05-HAR-2010 18:38
Client ID: CE314022310GRAB MSD
Sample Info: QL34HMSD,10,10,0,
Column phase: RTX502.2

Instrument: nt10.1
Operator: JZ
Column diameter: 0.18



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AMSD,10,10,0,

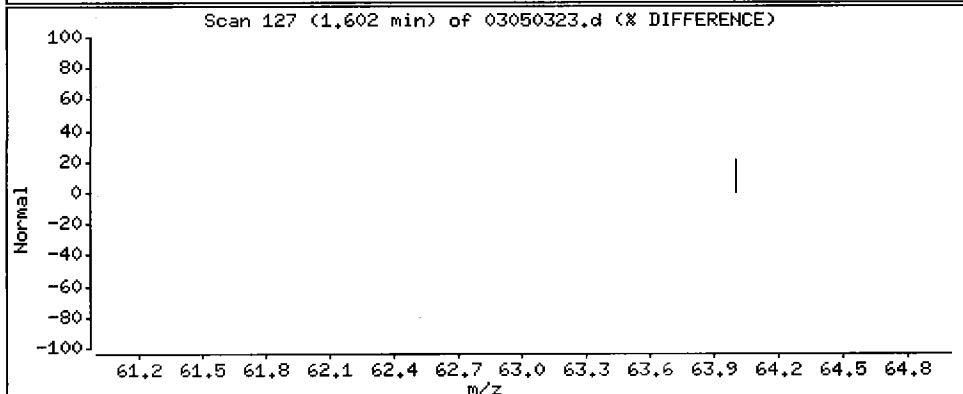
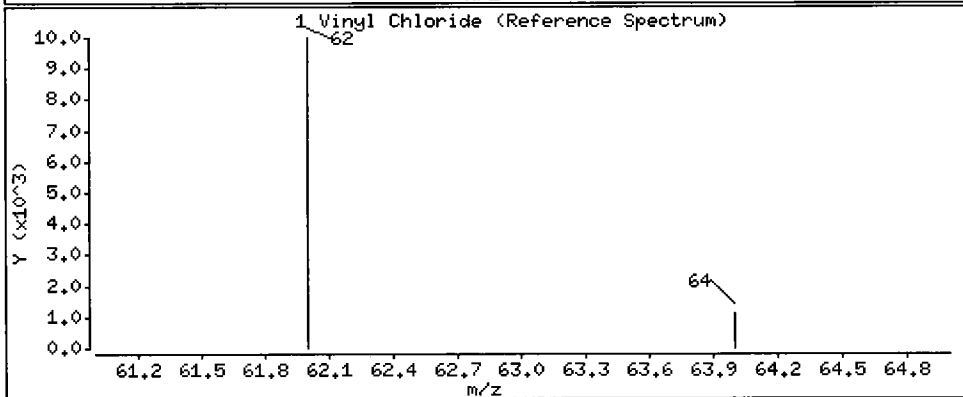
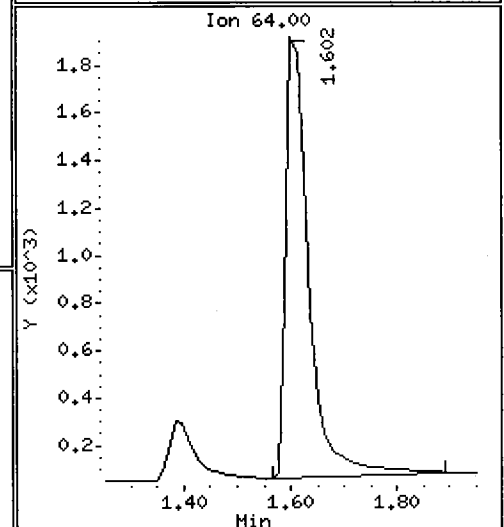
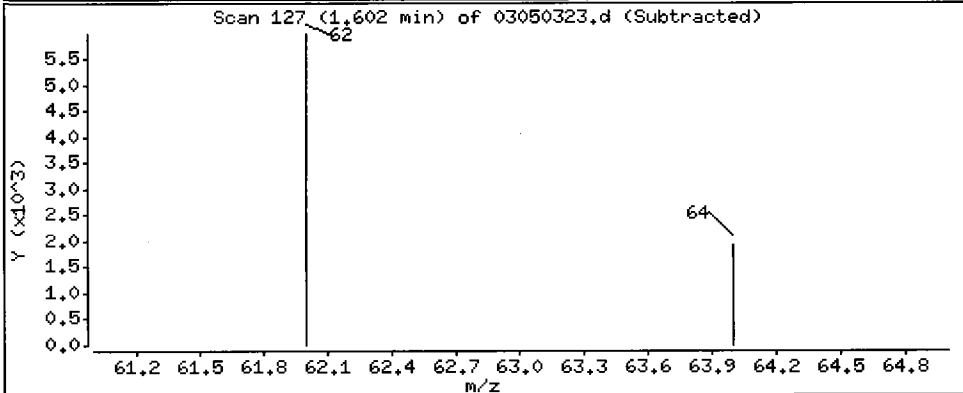
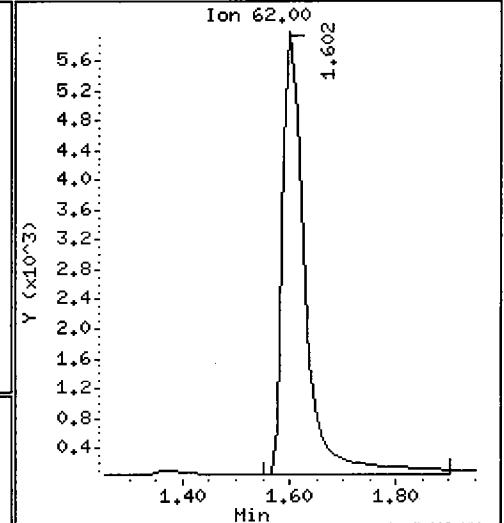
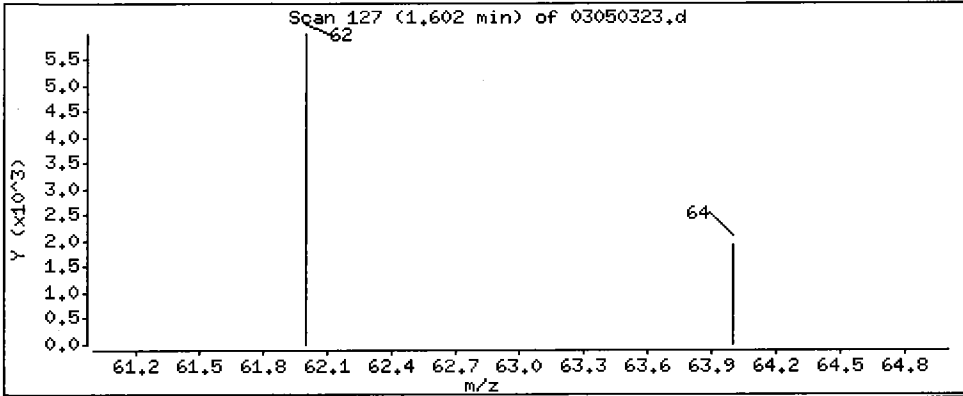
Operator: JZ

Column phase: RTX502,2

Column diameter: 0.18

1 Vinyl Chloride

Concentration: 1114.7 ug/L



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AHSO,10,10,0,

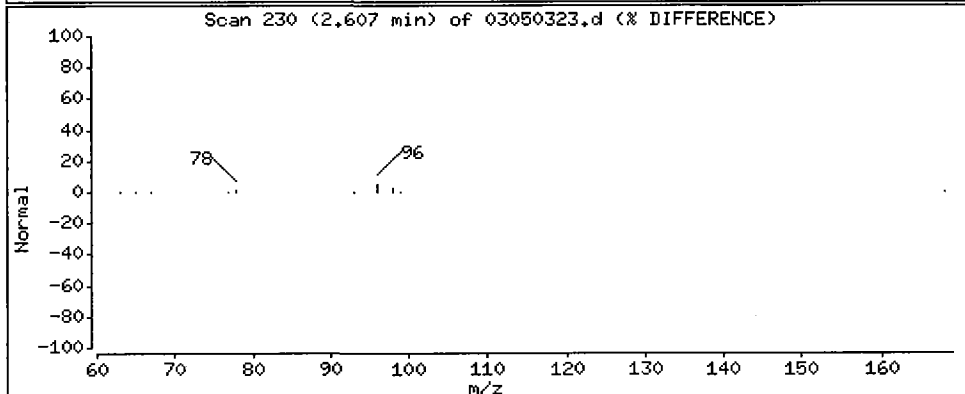
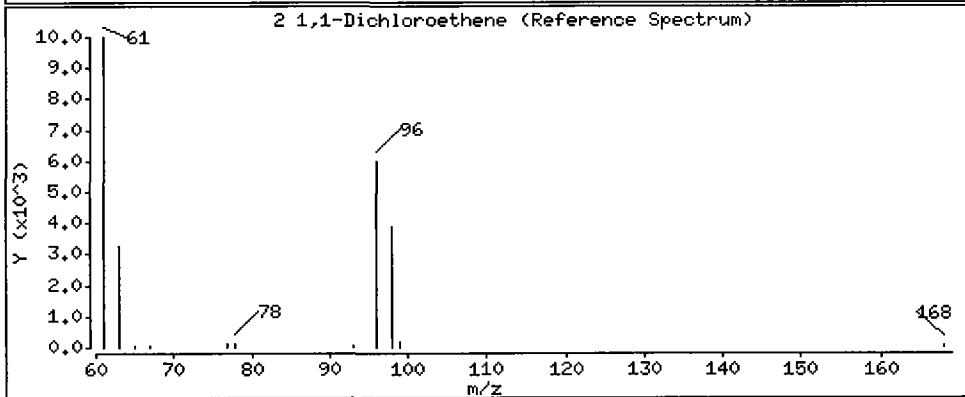
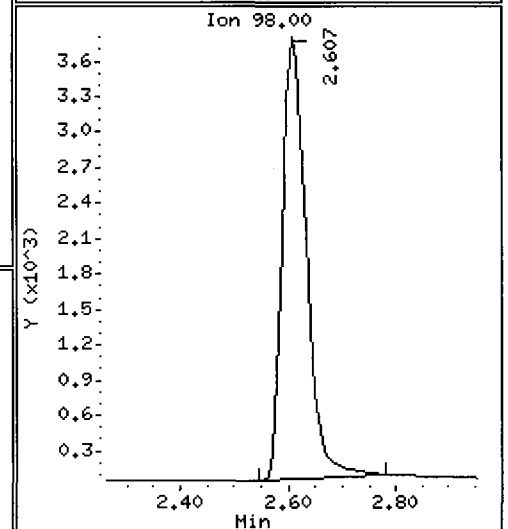
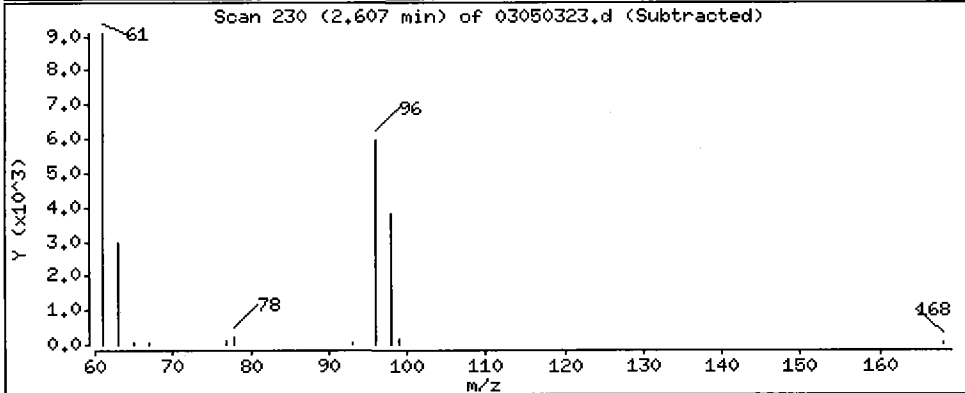
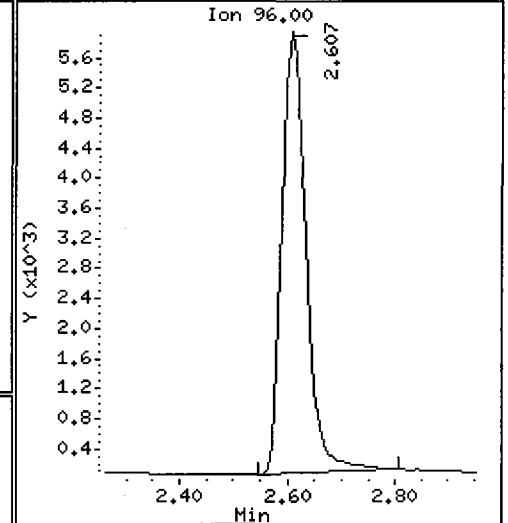
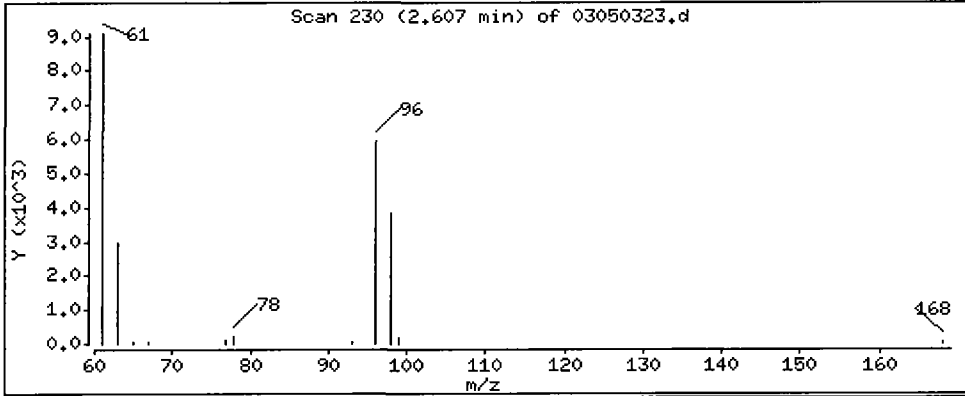
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

2 1,1-Dichloroethene

Concentration: 891.03 ug/L



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AMSD,10,10,0,

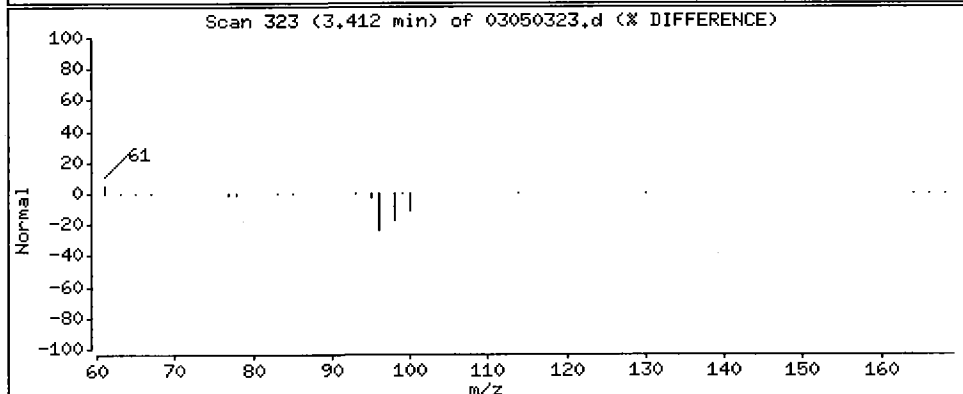
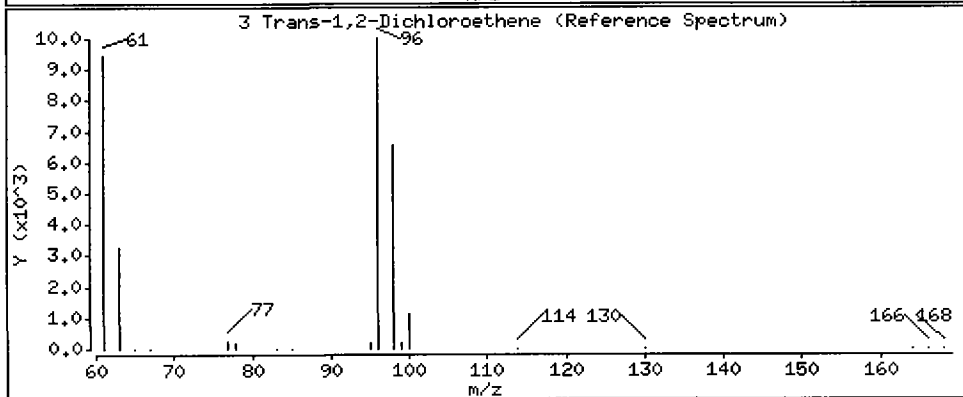
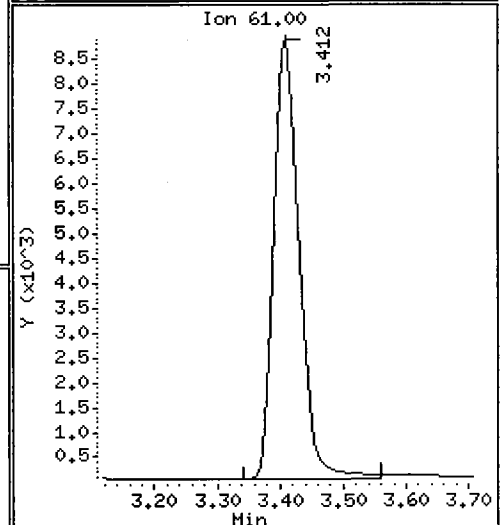
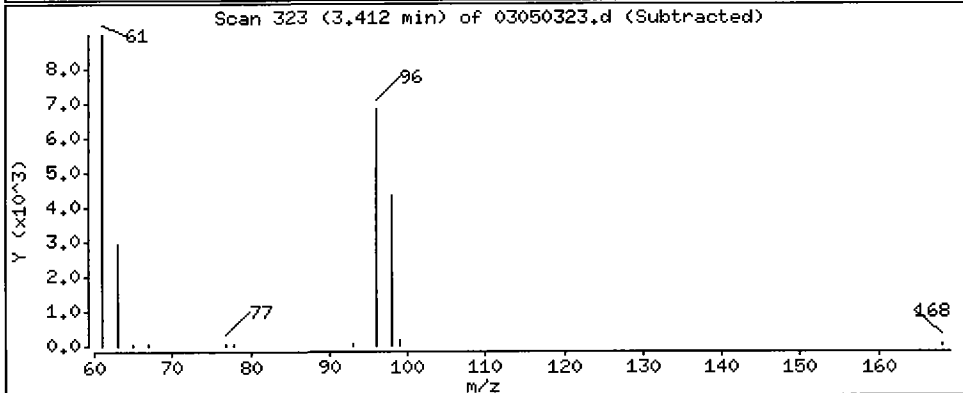
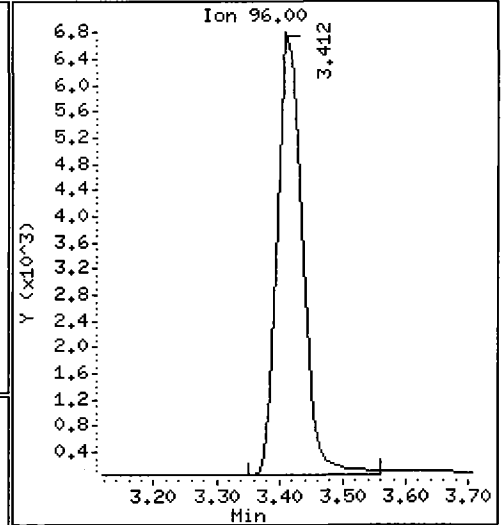
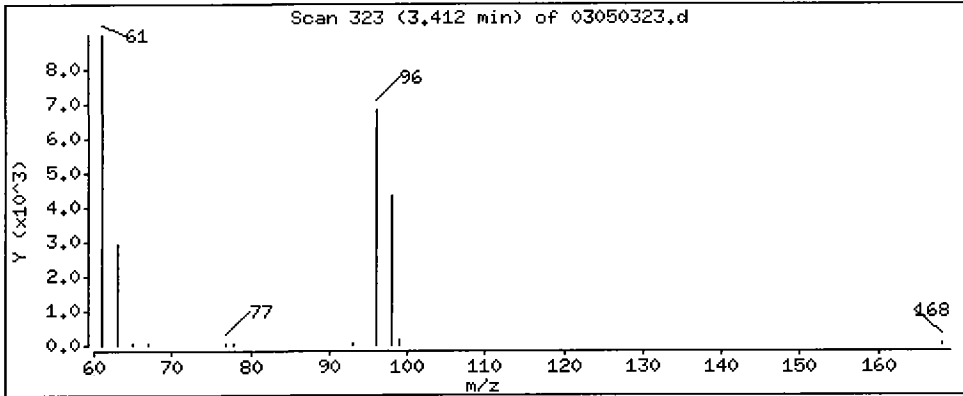
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

3 Trans-1,2-Dichloroethene

Concentration: 920.31 ug/L



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AMSD,10,10,0,

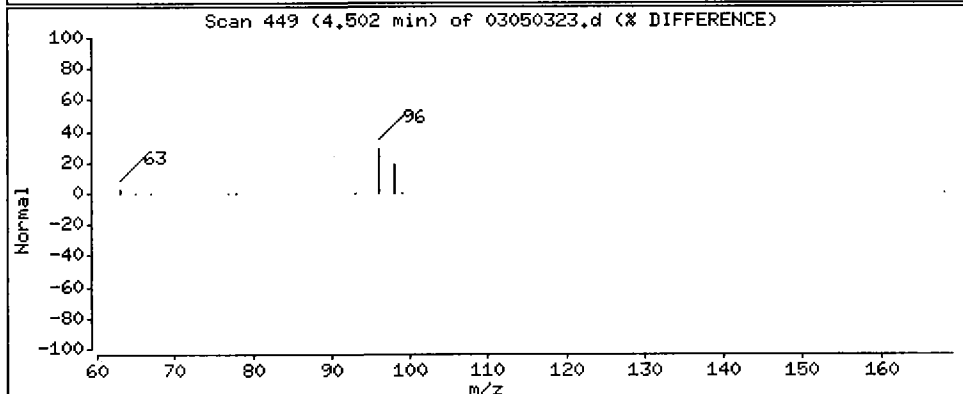
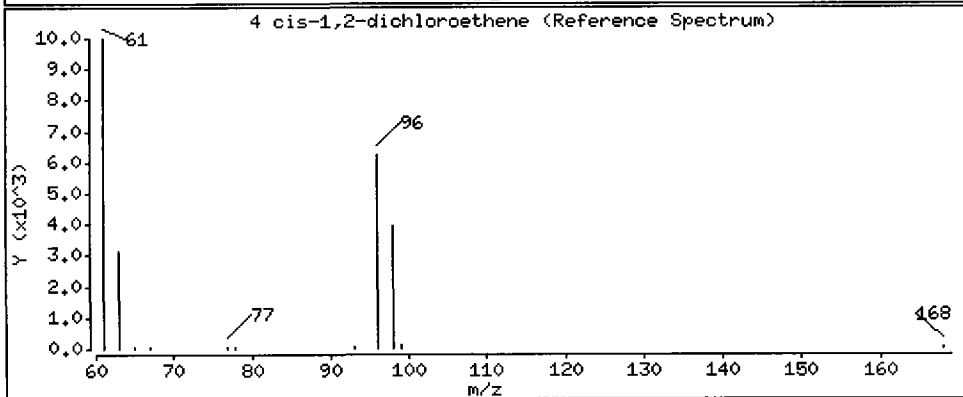
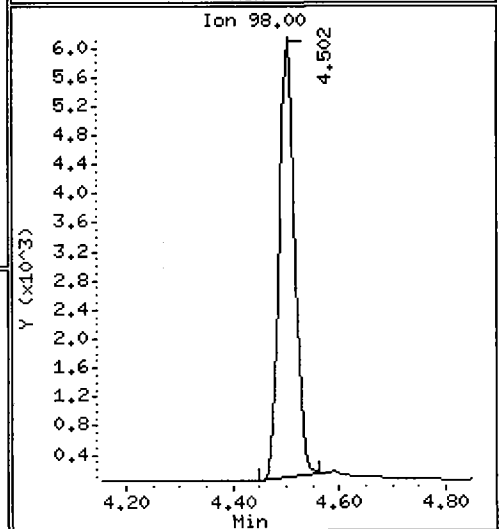
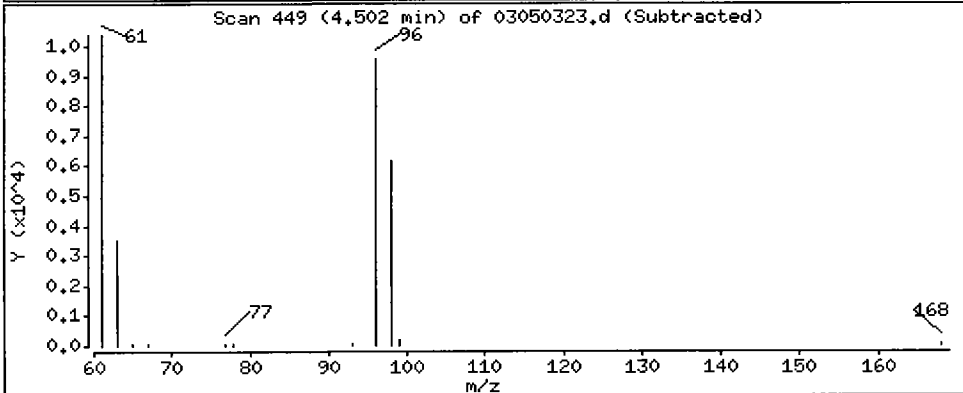
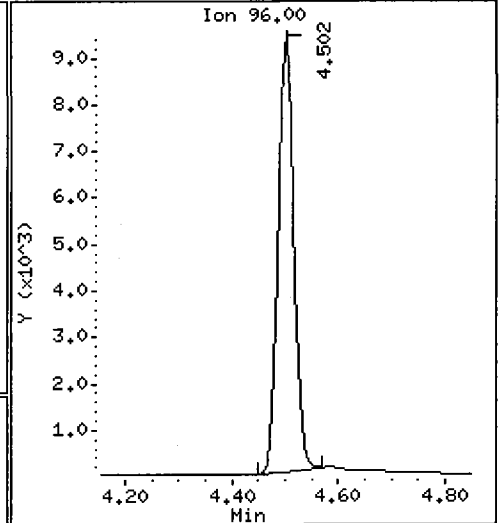
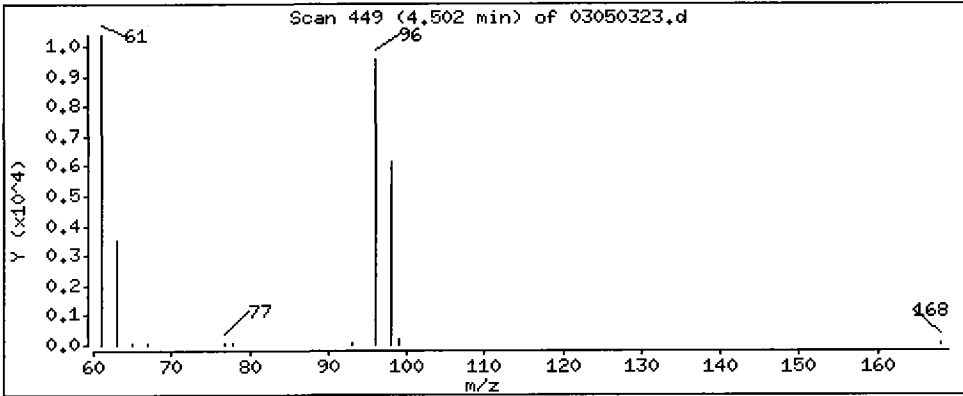
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

4 cis-1,2-dichloroethene

Concentration: 1082,6 ug/L



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AMSD,10,10,0,

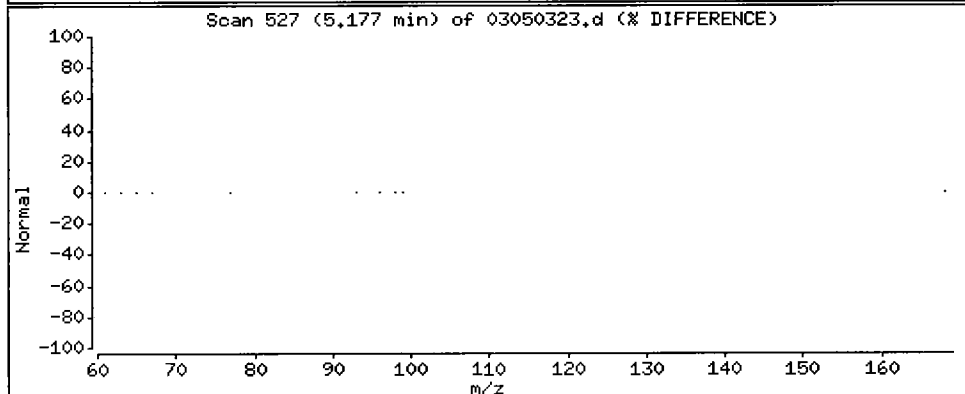
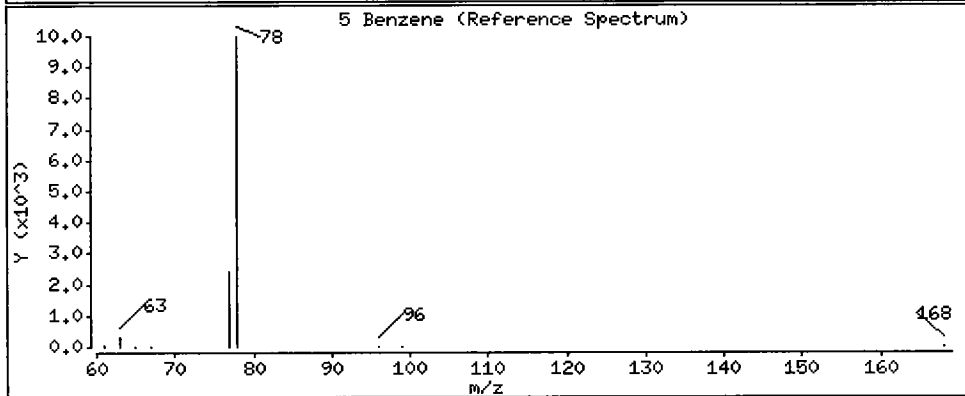
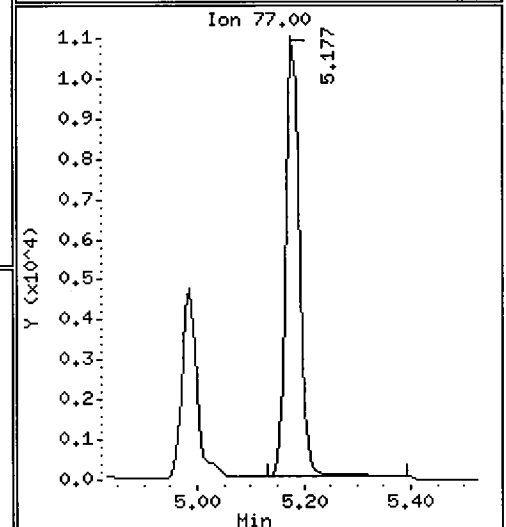
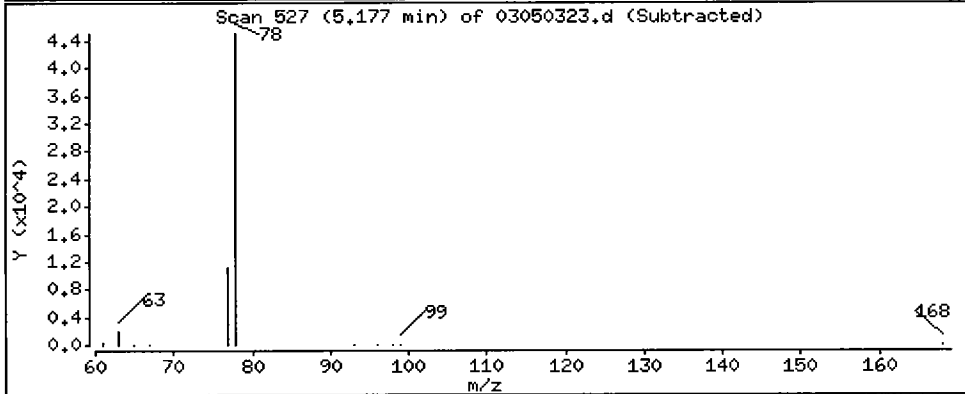
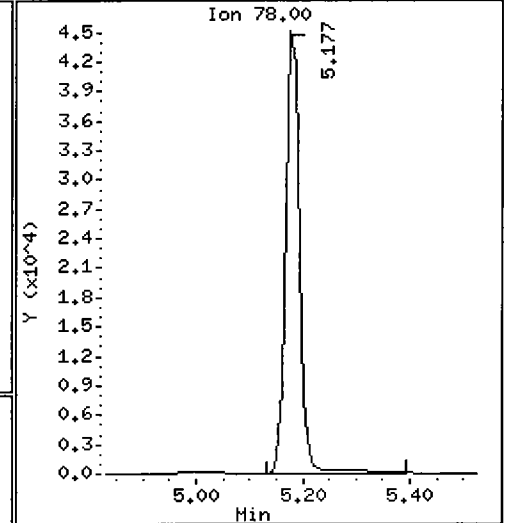
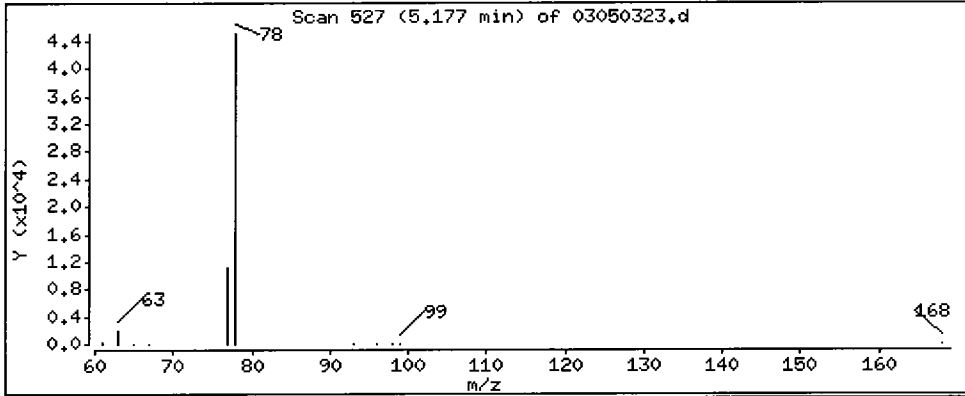
Operator: JZ

Column phase: RTX502,2

Column diameter: 0.18

5 Benzene

Concentration: 1102.3 ug/L



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AMSD,10,10,0,

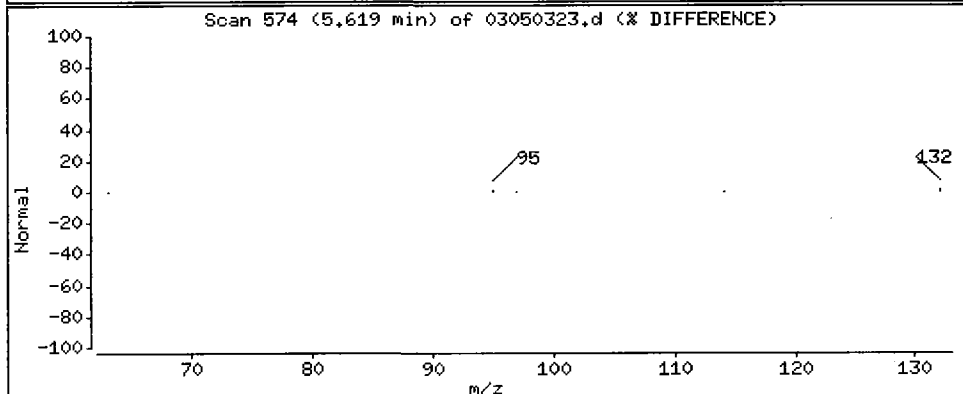
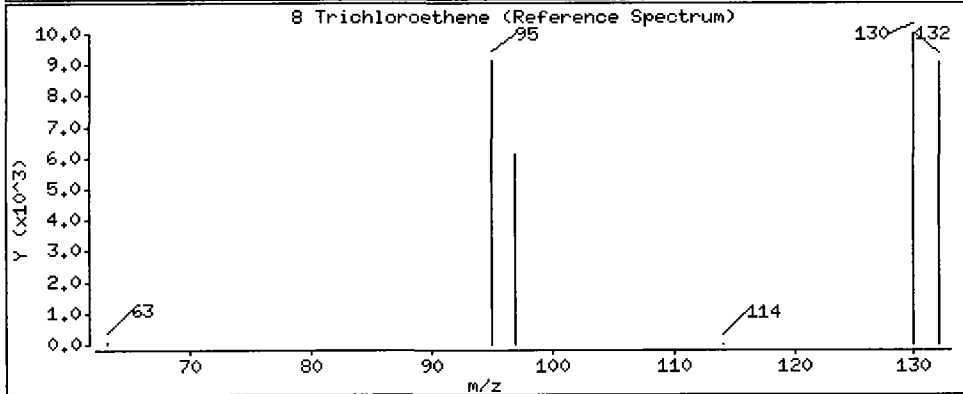
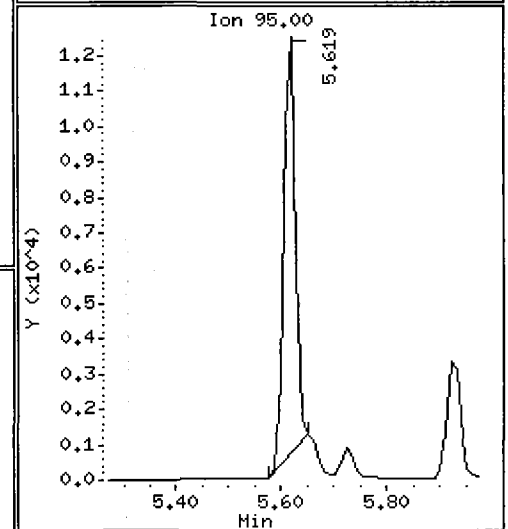
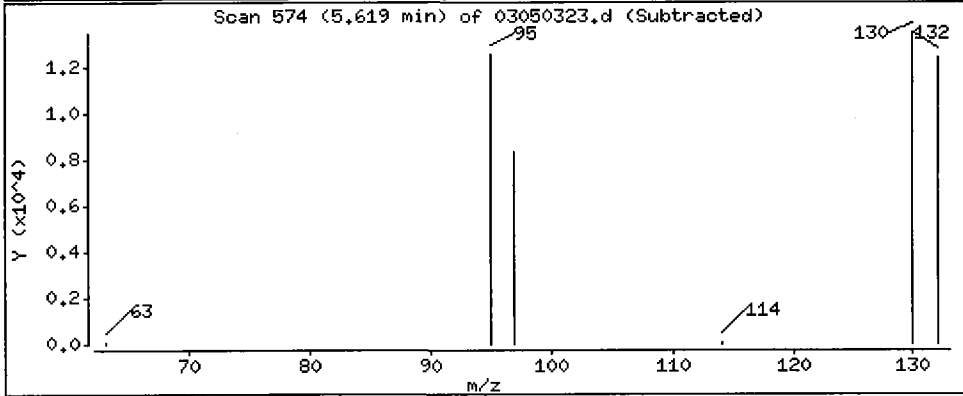
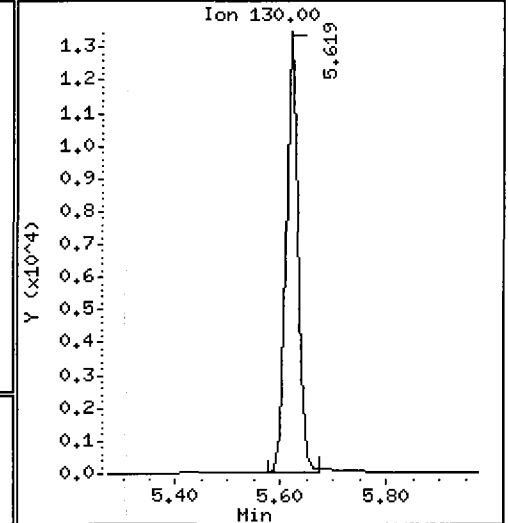
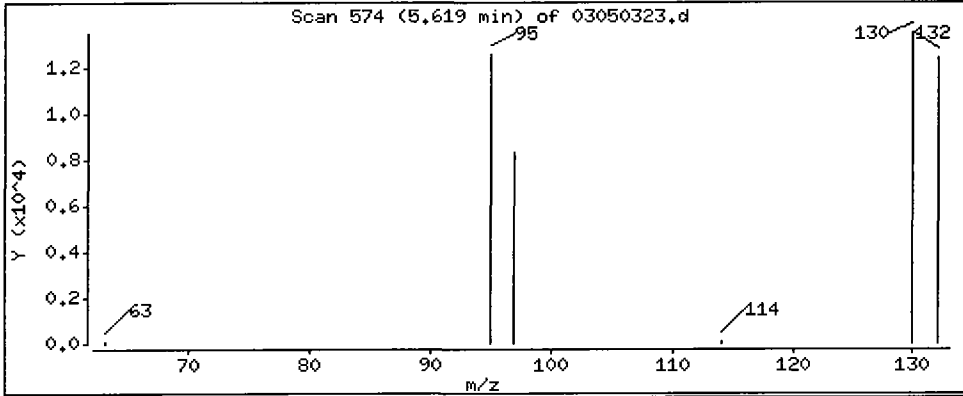
Operator: JZ

Column phase: RTX502,2

Column diameter: 0,18

8 Trichloroethene

Concentration: 1082.2 ug/L



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AMSD,10,10,0,

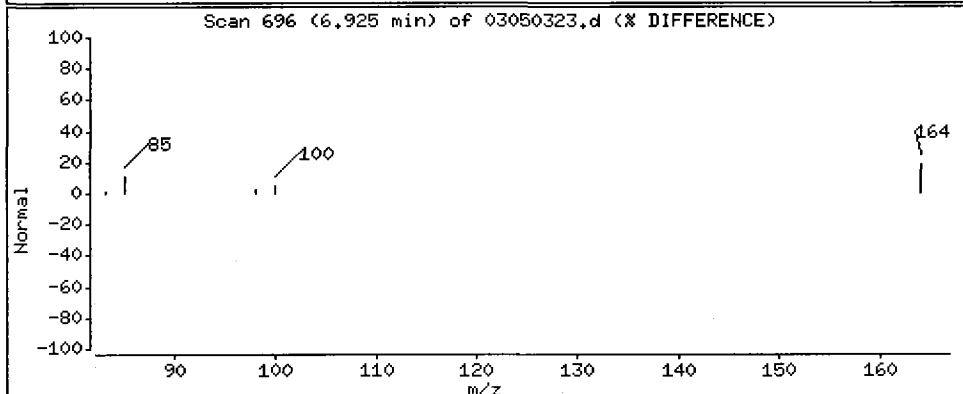
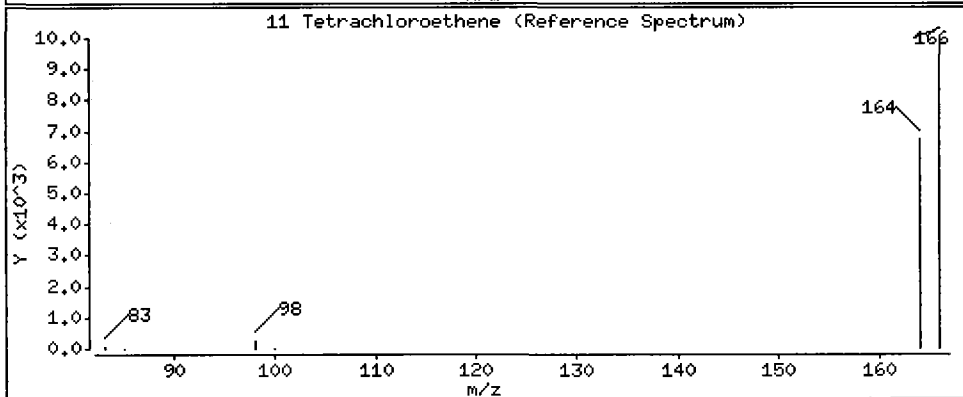
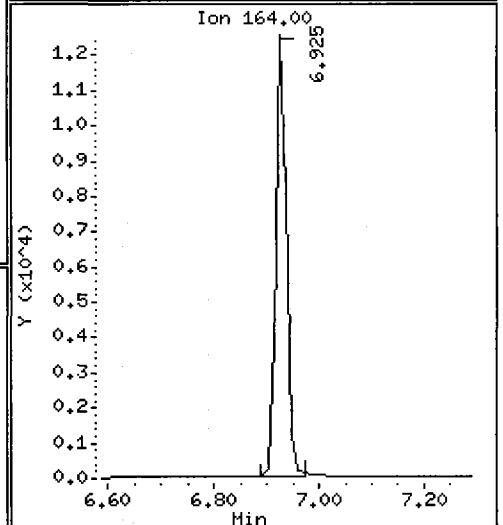
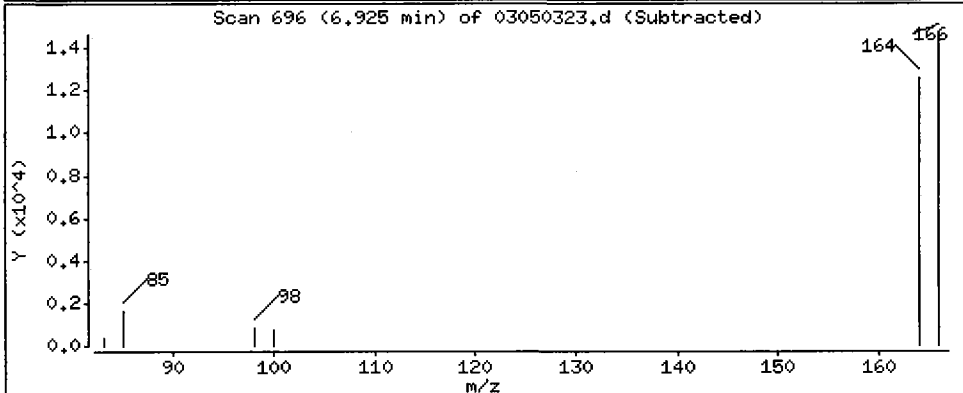
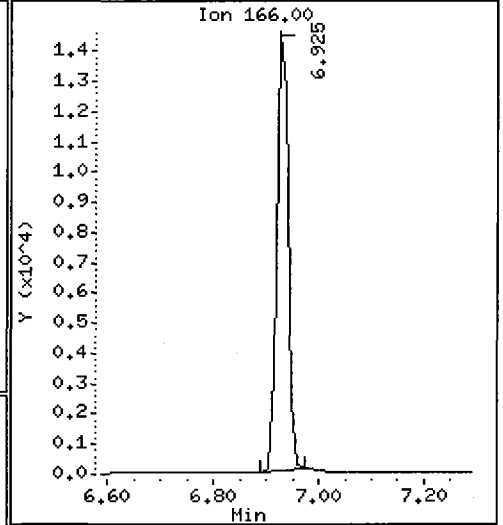
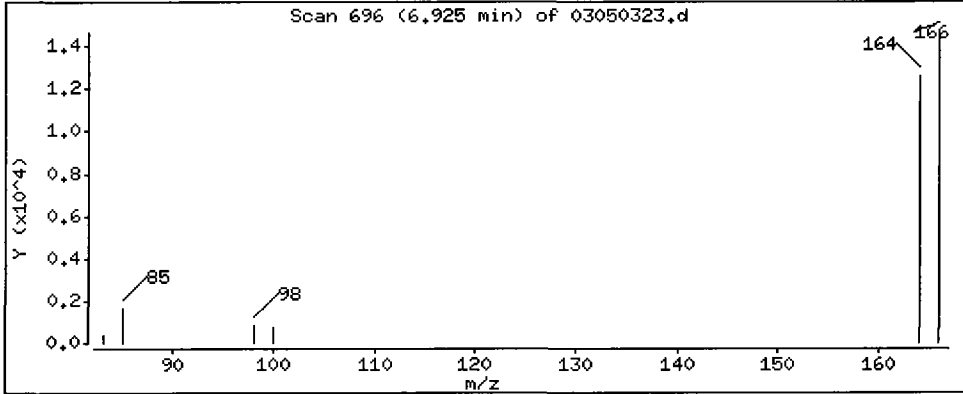
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

11 Tetrachloroethene

Concentration: 1078.0 ug/L



Date : 05-MAR-2010 18:38

Client ID: CB31A022310GRAB MSD

Instrument: nt10.i

Sample Info: QL34AMSD,10,10,0,

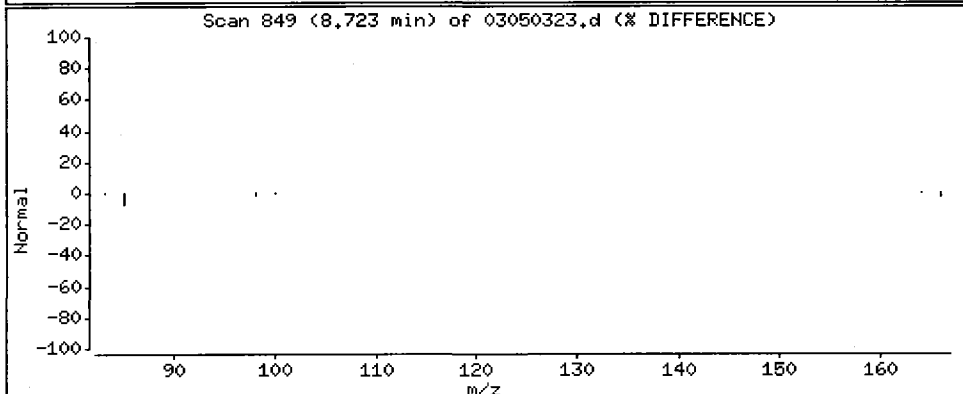
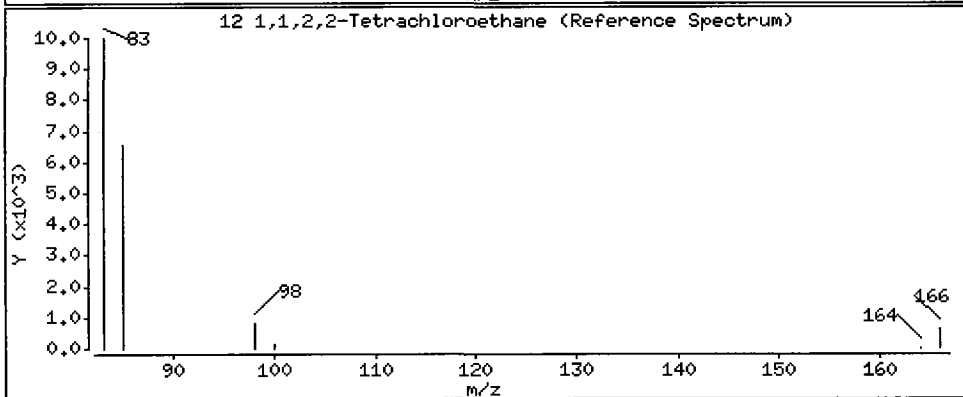
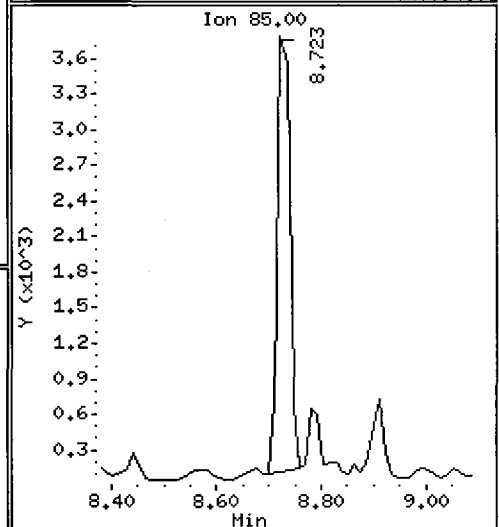
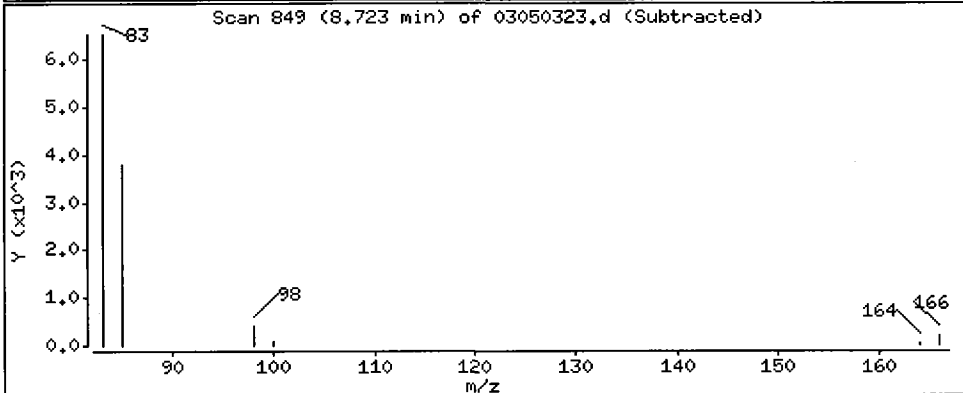
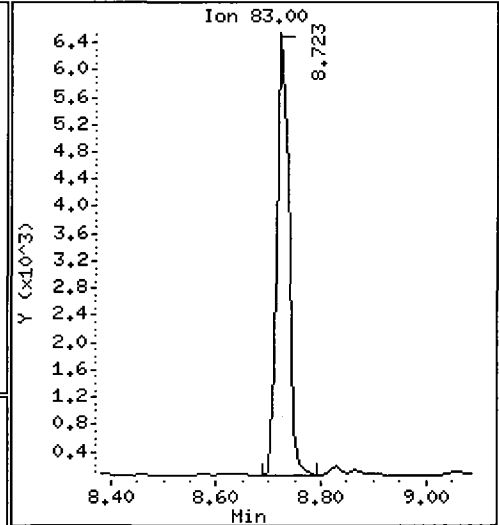
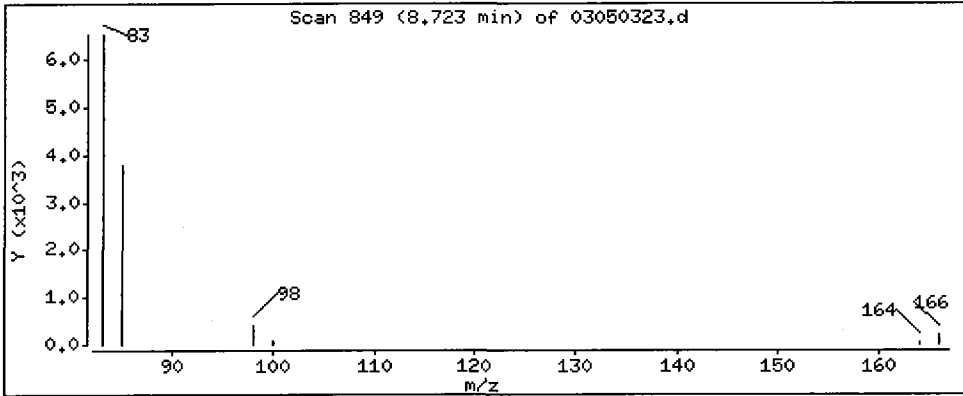
Operator: JZ

Column phase: RTX502.2

Column diameter: 0.18

12 1,1,2,2-Tetrachloroethane

Concentration: 1004.4 ug/L



SIM Volatile Analysis
Run Logs

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.: Volatile Organics Instrument Log
NT-10 Serial No.:GC=CN10837018, MS= US83131105

Date: 3/4/2010 Analysis: SIM Analyst: MH
 GC Program: VC Column No: 868268 Column Type: RTXUMS
 Instrument Tune (.U or .CT.): BFB030403 EM Voltage: 1106
 Calibration File: D30408 Curve Date: 3/4/10

IS/SS	Ical/Ccal	LCS/ICV
VW618-3	VW617-1	VW617-1

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/04MAR10.b

Time	Filename	LabID	ClientID	Vial#	pH	DF
1 1356	030404.d	00200304		1	5.27	38738 5.66 55529
2 1427	030405.d	00500304		1	5.27	41811 5.66 60627
3 1457	030406.d	01000304		1	5.27	42609 5.66 61477
4 1527	030407.d	05000304		1	5.27	41939 5.66 61212
5 1557	030408.d	10000304		1	5.27	45054 5.66 66146
6 1628	030409.d	20000304		1	5.27	42049 5.66 61471
7 1658	030410.d	40000304		1	5.27	45095 5.66 66665
8 1728	030411.d	ICV0304		1	5.27	44603 5.66 65633
9 1144	bfb030401.d	BFB0304	BFB0304		0.00	
10 1218	bfb030402.d	BFB0304	BFB0304		0.00	
11 1320	bfb030403.d	BFB0304	BFB0304		0.00	

MH 3/9/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM CURVE Client ID: _____

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

Parameter(s): SIM

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/4/10 Analysis Start Date: _____

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO

BFB Tune Meets Criteria? YES / NO / NA LCS / LCSD Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

Special Analysis Criteria Met? YES / NO / NA

ICal acceptable? YES / NO; Q flag applied? YES / NO / NA

CCal acceptable? YES / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 3/8/10

Reviewer's Signature: [Signature] Date: 3/8/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-10 Serial No.: GC=CN10837018, MS= US83131105

Date: 3/5/2010 Analysis: SIM Analyst: MH
 GC Program: VC Column No: 868268 Column Type: RTXVMS
 Instrument Tune (.U or .CT.): 03050302 (BFB0305) EM Voltage: 1106
 Calibration File: 03050303 (CC0305) Curve Date: 3/4/10

IS/SS: VW618-3 Ical/Ccal: VW617-1 LCS/ICV: VW617-1

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt10.i/05MAR10.b

Time	Filename	LabID	ClientID	WT
1	0657	03050301.d	RB0305	0.00
2	0721	03050302.d	BFB0305	0.00
3	0807	03050303.d	CC0305	1 5.27 40313 5.66 58521
4	0851	03050304.d	LCS0305	1 5.27 41551 5.66 59226
5	0921	03050305.d	LCS0305	1 5.27 40224 5.66 58591
6	0951	03050306.d	MB0305	1 5.27 43404 5.66 63335
7	1037	03050307.d	QL34E TB022310	1 5.27 43456 5.66 62331
8	1107	03050308.d	QL47A Trip Blank	1 5.27 39428 5.66 57006
9	1137	03050309.d	QL34A CB31A022310GRAB	1 5.27 40524 5.66 58287
10	1207	03050310.d	QL34B CB100022310GRAB	1 5.27 39686 5.66 57733
11	1238	03050311.d	QL34C CB4857022310GRAB	1 5.27 39706 5.66 57668
12	1308	03050312.d	QL34D CB1022310GRAB	1 5.27 42339 5.66 62224
13	1338	03050313.d	QL47B BDC-1-WT	1 5.27 39313 5.66 56727
14	1408	03050314.d	QL47F BDC-3-60	1 5.27 41609 5.66 61054
15	1438	03050315.d	QL47G BDC-4-WT	1 5.27 42086 5.66 61576
16	1508	03050316.d	QL47J BDC-6-60	1 5.27 39159 5.66 57026
17	1539	03050317.d	QL47K BDC-11-WT	1 5.27 38042 5.66 55572
18	1608	03050318.d	QL47M BDC-11-60	1 5.27 38524 5.66 55987
19	1639	03050319.d	QL47E BDC-3-40	1 5.27 41987 5.66 61809
20	1708	03050320.d	QL47I BDC-6-30	1 5.27 38758 5.66 56948
21	1738	03050321.d	QL47L BDC-11-40	1 5.27 41145 5.66 60250
22	1808	03050322.d	QL34AMS CB31A022310GRAB MS	1 5.27 40494 5.66 58919
23	1838	03050323.d	QL34AMSD CB31A022310GRAB MSD	1 5.27 38931 5.66 56351
24	1908	03050324.d	QL47BMS	1 5.27 39544 5.66 57392
25	1938	03050325.d	QL47BMSD	1 5.27 41797 5.66 61892

[Handwritten scribbles and signature]
 MH
 3/9/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: QL34 Client ID: Floyd-Snyder

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 703S(SIM) 706S(524.2) 708S(8260C) 710S(MME)

Parameter(s): SIM

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 10 Curve Date: 3/4/10 Analysis Start Date: 3/5/10

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO

3FB Tune Meets Criteria? YES / NO / NA LCS / LCSD Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

Special Analysis Criteria Met? YES / NO NA

Cal acceptable? YES / NO; Q flag applied? YES / NO / NA

Cal acceptable? YES / NO; Q flag applied? YES / NO / NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 3/9/10

Reviewer's Signature: [Signature] Date: 3/9/10

TPHD Analysis
QC Summary Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-022510	72.5%	0
LCS-022510	86.6%	0
CB31A022310GRAB	76.8%	0
CB31A022310GRAB MS	81.8%	0
CB31A022310GRAB MSD	81.3%	0
CB100022310GRAB	73.2%	0
CB4857022310GRAB	76.7%	0
CB1022310GRAB	78.8%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl


(51-120)

(41-121)

Prep Method: SW3510C
Log Number Range: 10-4685 to 10-4688

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1

Sample ID: CB31A022310GRAB
MS/MSD

Lab Sample ID: QL34A
LIMS ID: 10-4685
Matrix: Water
Data Release Authorized: 
Reported: 03/01/10

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA
Date Sampled: 02/23/10
Date Received: 02/24/10

Date Extracted MS/MSD: 02/25/10
Date Analyzed MS: 02/26/10 17:34
MSD: 02/26/10 17:59
Instrument/Analyst MS: FID/MS
MSD: FID/MS

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	0.40	2.43	3.00	67.7%	2.44	3.00	68.0%	0.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	81.8%	81.3%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1


Sample ID: LCS-022510

LAB CONTROL

Lab Sample ID: LCS-022510

LIMS ID: 10-4685

Matrix: Water

Data Release Authorized: 

Reported: 03/01/10

QC Report No: QL34-Floyd-Snider

Project: Lora Lake Apartments

POS-LLA

Date Sampled: 02/23/10

Date Received: 02/24/10

Date Extracted: 02/25/10

Date Analyzed: 02/26/10 19:41

Instrument/Analyst: FID/MS

Sample Amount: 500 mL

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.15	3.00	71.7%

TPHD Surrogate Recovery

o-Terphenyl	86.6%
-------------	-------

Results reported in mg/L

4
TPH METHOD BLANK SUMMARY

BLANK NO.

QL34MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QL34

Project No.: LORA LAKE APTS.

Date Extracted: 02/25/10

Matrix: LIQUID

Date Analyzed : 02/26/10

Instrument ID : FID4A

Time Analyzed : 2007

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	CB31A022310G	QL34A	02/26/10
02	CB31A022310G	QL34AMS	02/26/10
03	CB31A022310G	QL34AMSD	02/26/10
04	CB100022310G	QL34B	02/26/10
05	CB4857022310	QL34C	02/26/10
06	CB1022310GRA	QL34D	02/26/10
07	QL34LCSW1	QL34LCSW1	02/26/10
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
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22			
23			
24			
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27			
28			
29			
30			

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QL34

Project: LORA LAKE APTS.

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 02/26/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD						
TERPH: 6.87			TRAC: 9.89			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRAC RT #	
=====	=====	=====	=====	=====	=====	=====
01	RT	02/26/10	1325	6.87	9.89	
02	IB	02/26/10	1350	6.87	9.89	
03	LORA LAKE AP	02/26/10	1416	6.87	9.90	
04	LORA LAKE AP	02/26/10	1442	6.86	9.89	
05	ZZZZZ	02/26/10	1643	6.87	9.89	
06	CB31A022310G	02/26/10	1708	6.87	9.89	
07	CB31A022310G	02/26/10	1734	6.87	9.89	
08	CB31A022310G	02/26/10	1759	6.87	9.89	
09	CB100022310G	02/26/10	1825	6.87	9.89	
10	CB4857022310	02/26/10	1850	6.87	9.89	
11	CB1022310GRA	02/26/10	1916	6.87	9.88	
12	QL34LCSW1	02/26/10	1941	6.87	9.88	
13	QL34MBW1	02/26/10	2007	6.87	9.88	
14	LORA LAKE AP	02/26/10	2032	6.87	9.90	
15	LORA LAKE AP	02/26/10	2058	6.86	9.89	

TERPH = o-terph (+/- 0.05 MINUTES)
 TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QL34

Project: LORA LAKE APTS.

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 01/22/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.89		TRIAC: 9.94	
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
=====					
01	RT	01/21/10	2119	6.89	9.94
02	IB	01/21/10	2144	6.90	9.93
03	MOIL 100	01/22/10	0130	6.90	9.92
04	MOIL 250	01/22/10	0155	6.88	9.93
05	MOIL 500	01/22/10	0221	6.90	9.94
06	MOIL 1000	01/22/10	0245	6.90	9.95
07	MOIL 2500	01/22/10	0310	6.89	9.99
08	MOIL 5000	01/22/10	0335	6.89	10.03*
09	MOIL ICV	01/22/10	0401	6.91	9.93

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: QL34

Project: LORA LAKE APTS.

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 01/22/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.90		TRIAC: 9.93	
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
=====	=====	=====	=====	=====	=====
01 RT	RT	01/22/10	1829	6.90	9.93
02 IB	IB	01/22/10	1855	6.89	9.93
03 DIESEL 50	DIESEL 50	01/22/10	1920	6.89	9.94
04 DIESEL 100	DIESEL 100	01/22/10	1945	6.89	9.92
05 DIESEL 250	DIESEL 250	01/22/10	2010	6.89	9.93
06 DIESEL 500	DIESEL 500	01/22/10	2035	6.90	9.94
07 DIESEL 1000	DIESEL 1000	01/22/10	2101	6.92	9.95
08 DIESEL 2500	DIESEL 2500	01/22/10	2126	6.95*	9.93
09 DIESEL ICV	DIESEL ICV	01/22/10	2151	6.89	9.91

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

TPHD Analysis
Sample Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by


Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: QL34-Floyd-Snider
Project: Lora Lake Apartments
POS-LLA

Data Release Authorized: 
Reported: 03/01/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-022510 10-4685	Method Blank HC ID: ---	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 72.5%
QL34A 10-4685	CB31A022310GRAB HC ID: DRO/MOTOR OIL	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	0.40 1.8 76.8%
QL34B 10-4686	CB100022310GRAB HC ID: DRO/MOTOR OIL	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	0.44 2.0 73.2%
QL34C 10-4687	CB4857022310GRAB HC ID: DRO/MOTOR OIL	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	0.29 1.3 76.7%
QL34D 10-4688	CB1022310GRAB HC ID: ---	02/25/10	02/26/10 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 78.8%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

Analytical Resources Inc.
TPH Quantitation Report

M-2/28/10

Data file: /chem3/fid4a.i/20100226.b/0226a007.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: QL34A
Client ID: CB31A022310GRAB
Injection: 26-FEB-2010 17:08

Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.196	-0.017	276	162	GAS (Tol-C12)	65932	8
C8	2.542	0.011	175	411	DIESEL (C12-C24)	2266913	199
C10	3.826	0.021	829	2099	M.OIL (C24-C38)	8431257	906
C12	4.723	0.010	502	779	AK-102 (C10-C25)	2697320	214
C14	5.426	-0.022	1108	2047	AK-103 (C25-C36)	7507534	1088
C16	6.102	0.006	5334	5766	OR.DIES (C10-C28)	5642016	439
C18	6.707	0.002	18849	21818	OR.MOIL (C28-C40)	5369696	773
C20	7.290	-0.006	24976	29552			
C22	7.843	-0.007	33093	44811			
C24	8.363	-0.004	54654	62838			
C25	8.612	-0.004	70038	85431			
C26	8.857	-0.004	72905	78783			
C28	9.359	-0.003	76430	120871			
C32	10.391	-0.002	67177	126637			
C34	10.905	-0.003	52072	91647	CREOSOT (C12-C22)	1112620	397
Filter Peak	12.897	0.012	4441	8792	HYDRAUL (C24-C38)	8431257	743
C36	11.408	-0.002	35147	61512			
C38	11.894	0.000	19866	42584			
C40	12.374	0.006	8726	10759			
o-terph	6.866	-0.004	633672	476826	JET-A (C10-C18)	267115	29
Triacon Surr	9.893	0.001	512475	544318			

Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

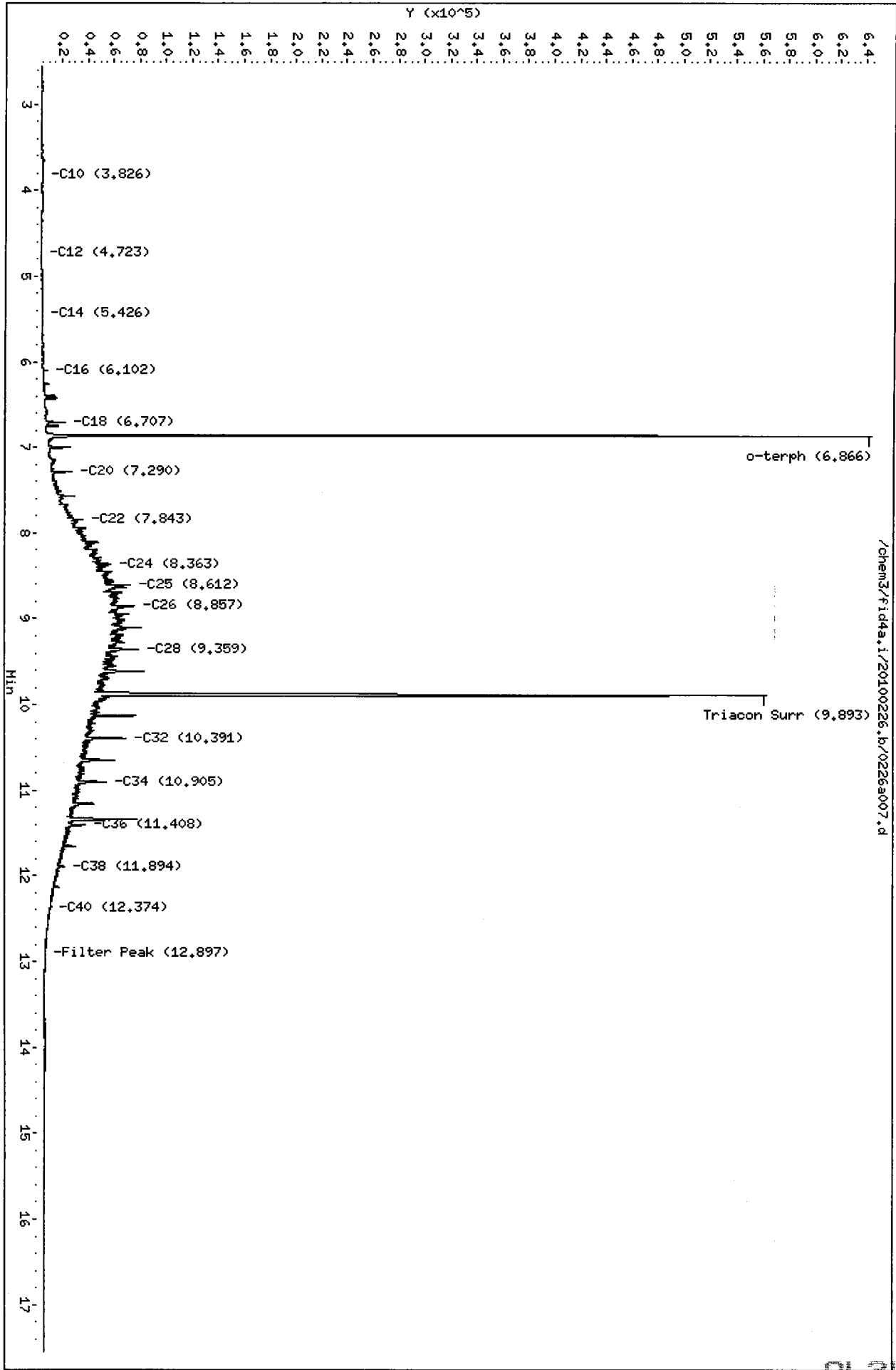
Surrogate	Area	Amount	%Rec
o-Terphenyl	476826	34.5	76.7
Triacotane	544318	37.0	82.3

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

M...l

Data File: /chem3/fid4a.i/20100226.b/0226a007.d
Date: 26-FEB-2010 17:08
Client ID: CB31A022310CRAB
Sample Info: QL34A
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100226.b/0226a007.d

78990 : 0134

0209110

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a010.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QL34B
Client ID: CB100022310GRAB
Injection: 26-FEB-2010 18:25

Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.205	-0.009	268	96	GAS (Tol-C12)	68805	9
C8	2.544	0.013	179	271	DIESEL (C12-C24)	2504209	220
C10	3.831	0.026	844	3495	M.OIL (C24-C38)	9448913	1016
C12	4.726	0.013	496	724	AK-102 (C10-C25)	3083396	244
C14	5.455	0.007	693	516	AK-103 (C25-C36)	8319443	1205
C16	6.103	0.008	6134	6029	OR.DIES (C10-C28)	6093162	474
C18	6.709	0.004	20637	24164	OR.MOIL (C28-C40)	6194486	892
C20	7.291	-0.004	27875	32548			
C22	7.843	-0.007	37940	49053			
C24	8.362	-0.005	60867	69333			
C25	8.611	-0.005	76139	114531			
C26	8.859	-0.002	79724	97384			
C28	9.360	-0.001	87626	180421			
C32	10.392	-0.002	70691	138270			
C34	10.906	-0.002	60191	109063	CREOSOT (C12-C22)	1224361	437
Filter Peak	12.895	0.010	4452	2969	HYDRAUL (C24-C38)	9448913	833
C36	11.407	-0.003	39268	66688			
C38	11.894	0.000	22244	35062			
C40	12.363	-0.005	11019	24595			
o-terph	6.867	-0.003	633654	454470	JET-A (C10-C18)	290711	32
Triacon Surr	9.892	0.000	505737	533502			

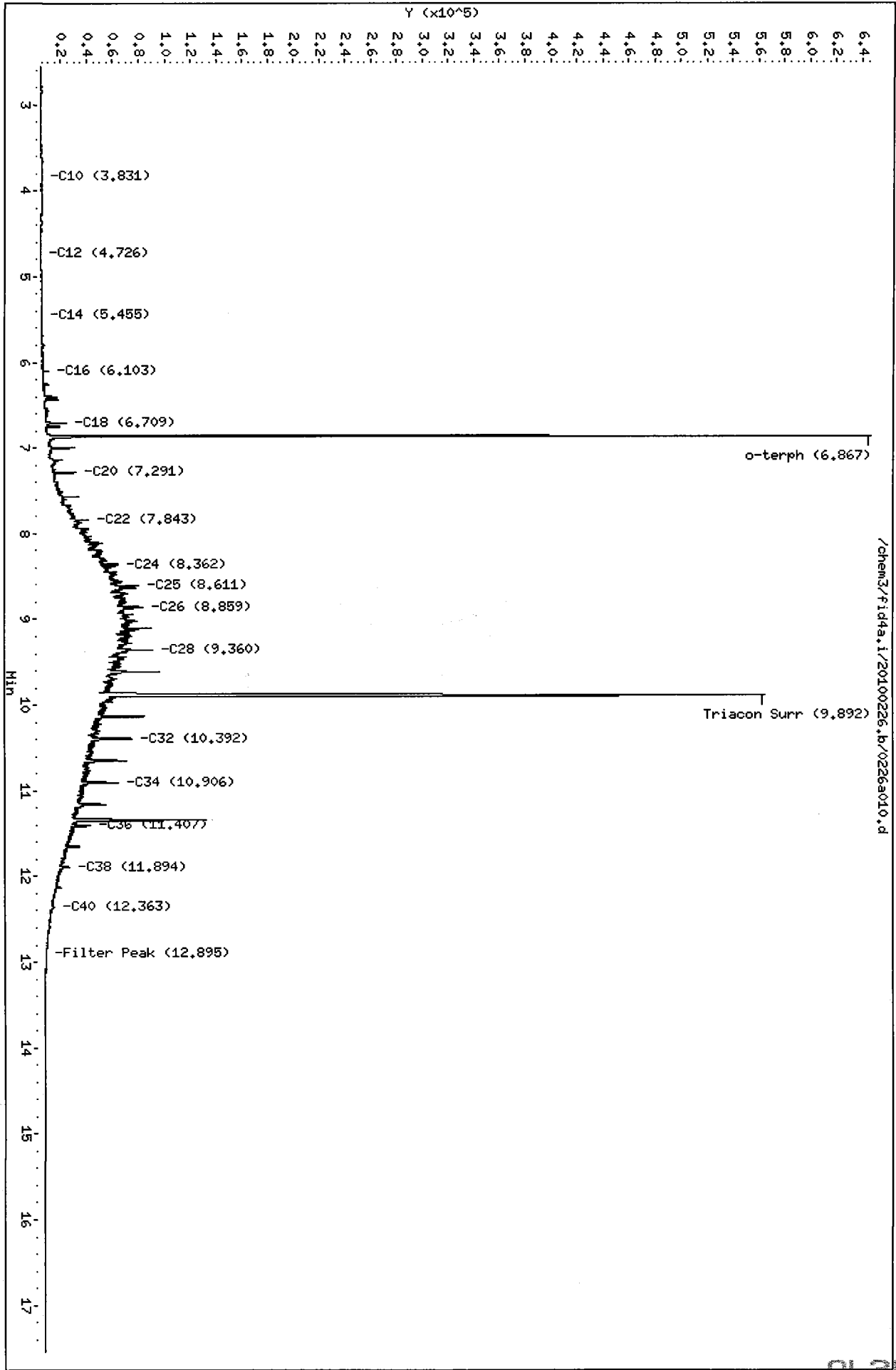
Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

Surrogate	Area	Amount	%Rec
o-Terphenyl	454470	32.9	73.1
Triacontane	533502	36.3	80.7

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a010.d
Date: 26-FEB-2010 18:25
Client ID: CB100022310GRAB
Sample Info: QL34B
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



089902 : 1678

Ms 2/22/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a011.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QL34C
Client ID: CB4857022310GRAB
Injection: 26-FEB-2010 18:50
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.196	-0.018	243	135	GAS (Tol-C12)	47157	6
C8	2.531	0.001	84	40	DIESEL (C12-C24)	1633316	144
C10	3.778	-0.027	630	889	M.OIL (C24-C38)	6156596	662
C12	4.707	-0.006	315	583	AK-102 (C10-C25)	2012046	159
C14	5.441	-0.008	691	1230	AK-103 (C25-C36)	5453156	790
C16	6.086	-0.009	1224	1150	OR.DIES (C10-C28)	4077012	317
C18	6.712	0.007	10515	13859	OR.MOIL (C28-C40)	3940312	567
C20	7.292	-0.004	16892	23355			
C22	7.842	-0.008	23469	27423			
C24	8.364	-0.004	39757	46618			
C25	8.609	-0.007	50400	46532			
C26	8.855	-0.006	53365	57361			
C28	9.356	-0.005	55841	65920			
C32	10.387	-0.006	47536	99024			
C34	10.901	-0.007	36903	64933	CREOSOT (C12-C22)	758025	270
Filter Peak	12.889	0.004	3525	2356	HYDRAUL (C24-C38)	6156596	543
C36	11.403	-0.006	25213	49377			
C38	11.889	-0.005	13930	22375			
C40	12.363	-0.005	7059	9463			
o-terph	6.868	-0.002	639828	476734	JET-A (C10-C18)	172508	19
Triacon Surr	9.890	-0.002	496296	543582			

Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

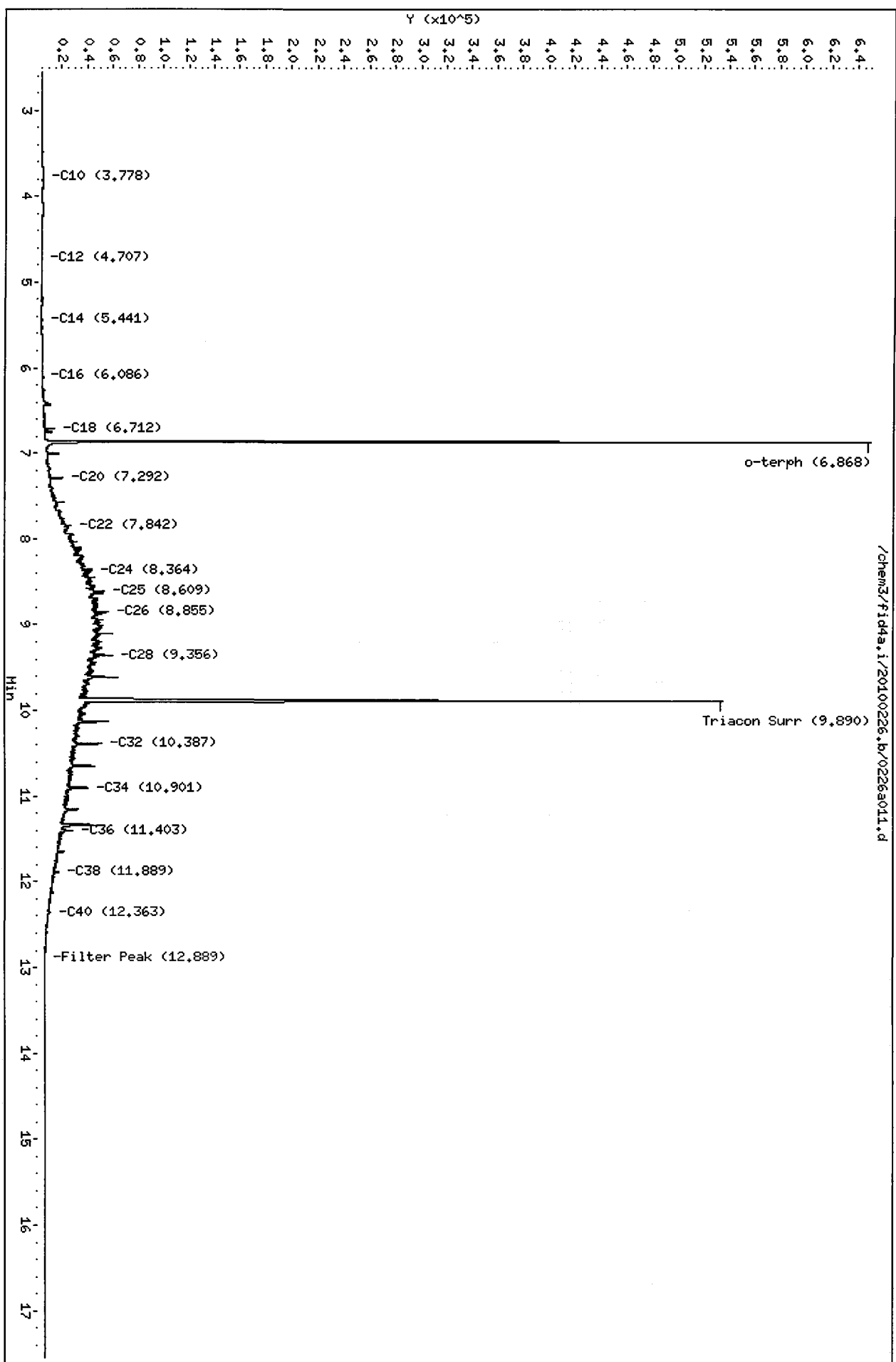
Surrogate	Area	Amount	%Rec
o-Terphenyl	476734	34.5	76.7
Triacontane	543582	37.0	82.2



Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a,i/20100226,b/0226a011.d
Date: 26-FEB-2010 18:50
Client ID: CB4857022310GRAB
Sample Info: QL34C
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



109980 : : 1010

ms2/27/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a012.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QL34D
Client ID: CB1022310GRAB
Injection: 26-FEB-2010 19:16
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.243	0.029	517	991	GAS (Tol-C12)	43314	5
C8	2.527	-0.004	100	28	DIESEL (C12-C24)	98728	9
C10	3.824	0.018	580	594	M.OIL (C24-C38)	330056	35
C12	4.730	0.017	255	74	AK-102 (C10-C25)	129999	10
C14	5.449	0.001	173	83	AK-103 (C25-C36)	279113	40
C16	6.079	-0.017	294	495	OR.DIES (C10-C28)	212817	17
C18	6.700	-0.005	435	295	OR.MOIL (C28-C40)	272283	39
C20	7.290	-0.006	778	1128			
C22	7.838	-0.013	896	1241			
C24	8.365	-0.003	1213	969			
C25	8.610	-0.006	1477	1179			
C26	8.853	-0.008	1477	788			
C28	9.357	-0.005	3391	4504			
C32	10.409	0.015	2235	6942			
C34	10.916	0.008	2123	5628	CREOSOT (C12-C22)	64434	23
Filter Peak	12.879	-0.007	1918	1704	HYDRAUL (C24-C38)	330056	29
C36	11.417	0.007	4692	12431			
C38	11.894	0.000	1439	1050			
C40	12.368	0.000	1536	1313			
o-terph	6.867	-0.004	484452	489328	JET-A (C10-C18)	47065	5
Triacon Surr	9.884	-0.008	513868	546071			

Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

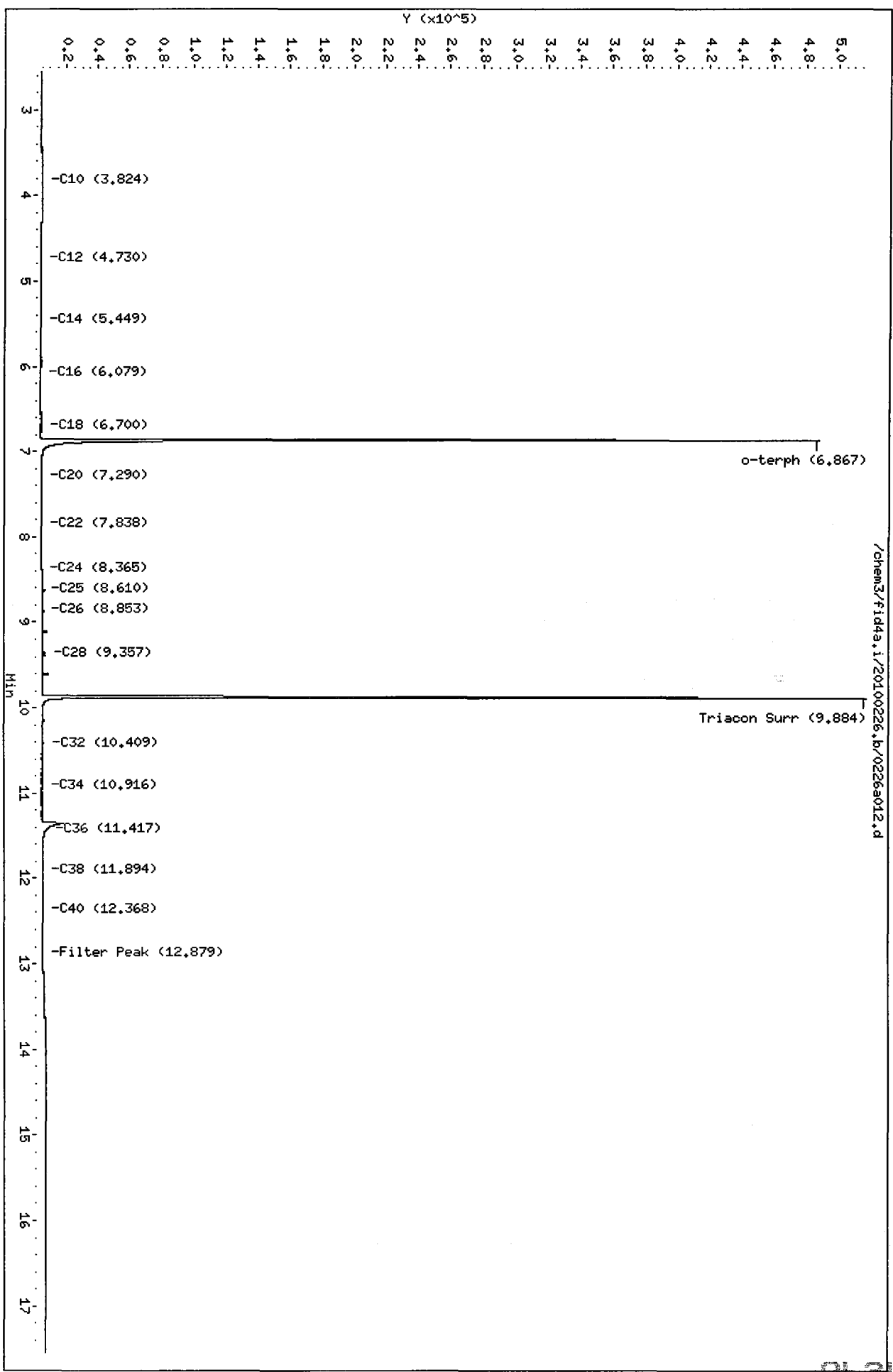
Surrogate	Area	Amount	%Rec
o-Terphenyl	489328	35.4	78.8
Triacotane	546071	37.2	82.6



Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a,i/20100226,b/0226a012.d
Date : 26-FEB-2010 19:16
Client ID: CB1022310GRAB
Sample Info: QL34D
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



009999 : : 1070

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 02/24/10

ARI Job: QL34
Project: Lora Lake Apartments
POS-LLA

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
10-4685-022510MB1	Method Blank	500 mL	1.00 mL	02/25/10
10-4685-022510LCS1	Lab Control	500 mL	1.00 mL	02/25/10
10-4685-QL34A	CB31A022310GRAB	500 mL	1.00 mL	02/25/10
10-4685-QL34AMS	CB31A022310GRAB	500 mL	1.00 mL	02/25/10
10-4685-QL34AMSD	CB31A022310GRAB	500 mL	1.00 mL	02/25/10
10-4686-QL34B	CB100022310GRAB	500 mL	1.00 mL	02/25/10
10-4687-QL34C	CB4857022310GRAB	500 mL	1.00 mL	02/25/10
10-4688-QL34D	CB1022310GRAB	500 mL	1.00 mL	02/25/10

TPHD Analysis
Standard Raw Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

QL34 : 00695

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

Instrument: FID4A.I

Project: LORA LAKE APTS.

Calibration Date: 22-JAN-2010

SDG No.: QL34

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	11672	12095	10925	11235	10648	11632	11368	4.7
AK Diesel	12995	13485	12117	12419	11856	12914	12631	4.8
OR Diesel	13538	13809	12259	12518	11943	12991	12843	5.7
o-Terph	12642	13813	13239	13959	13642	15546	13807	7.1

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

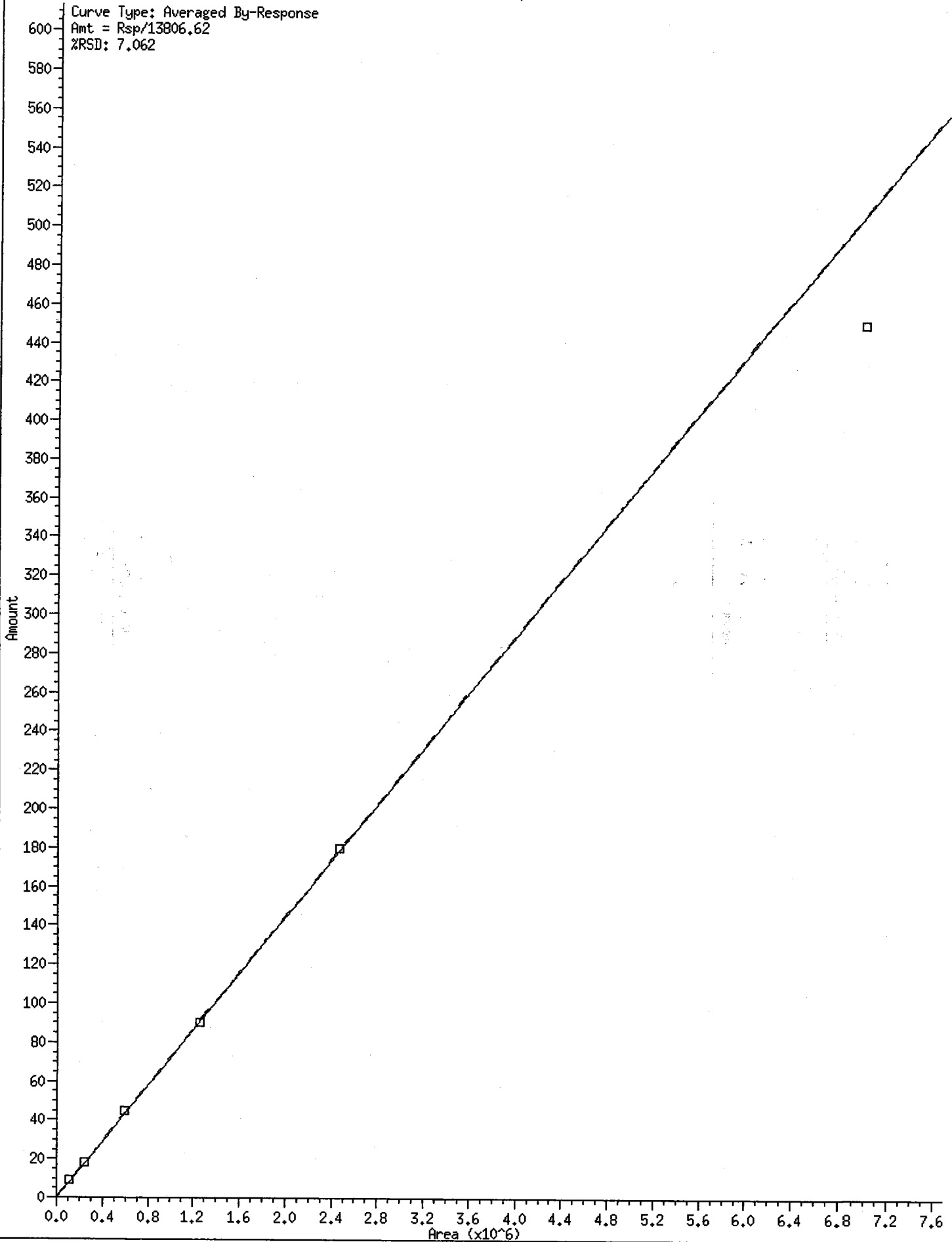
Quant Ranges : WA Diesel C12-C24 (4.732-8.398)
 AK Diesel C10-C25 (3.859-8.649)
 OR Diesel C10-C28 (3.859-9.401)

Calibration Files Analysis Time

0122a005.d	22-JAN-2010 19:20
0122a006.d	22-JAN-2010 19:45
0122a007.d	22-JAN-2010 20:10
0122a008.d	22-JAN-2010 20:35
0122a009.d	22-JAN-2010 21:01
0122a010.d	22-JAN-2010 21:26

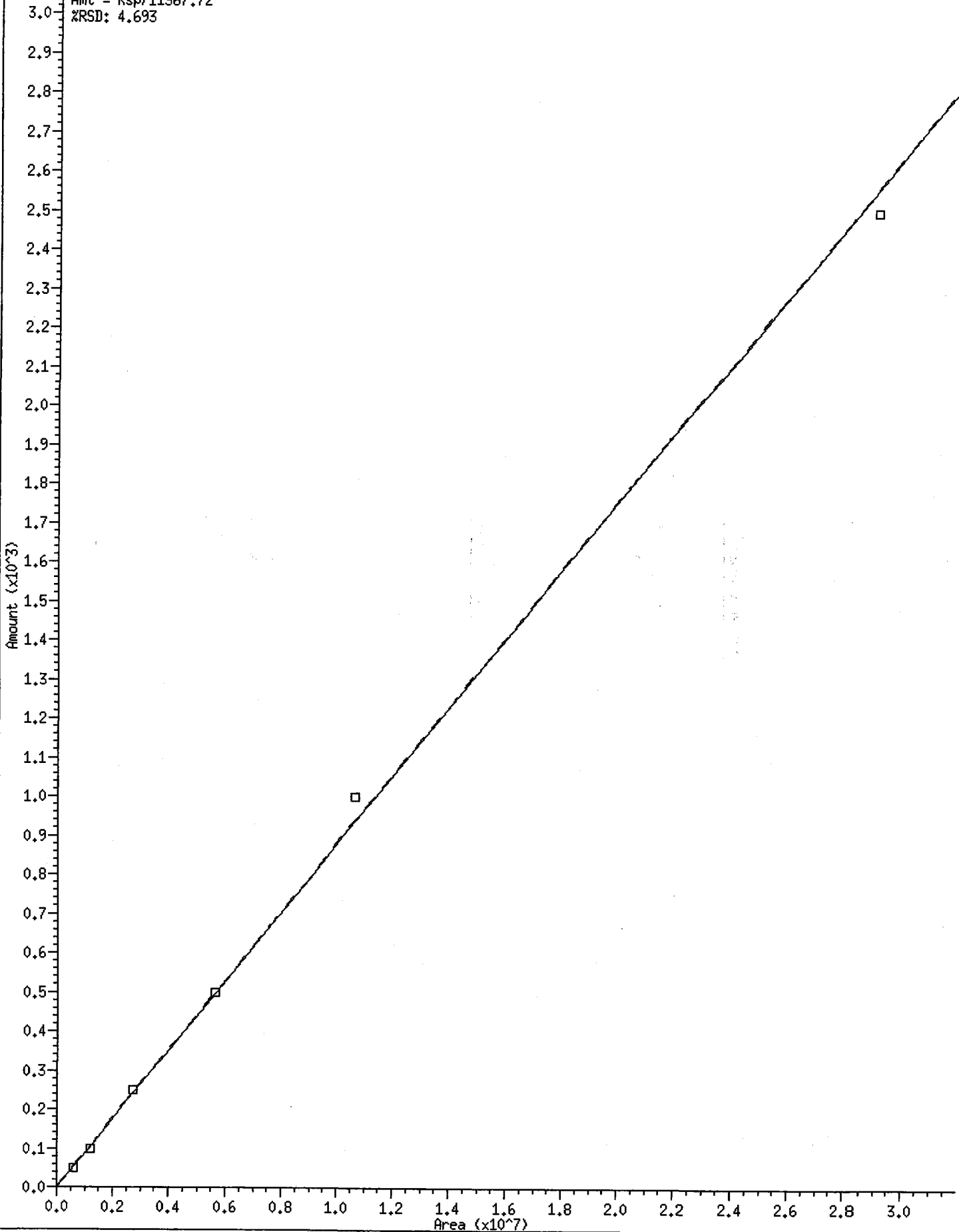
* 8 o-terph

Curve Type: Averaged By-Response
Amt = Rsp/13806.62
%RSD: 7.062

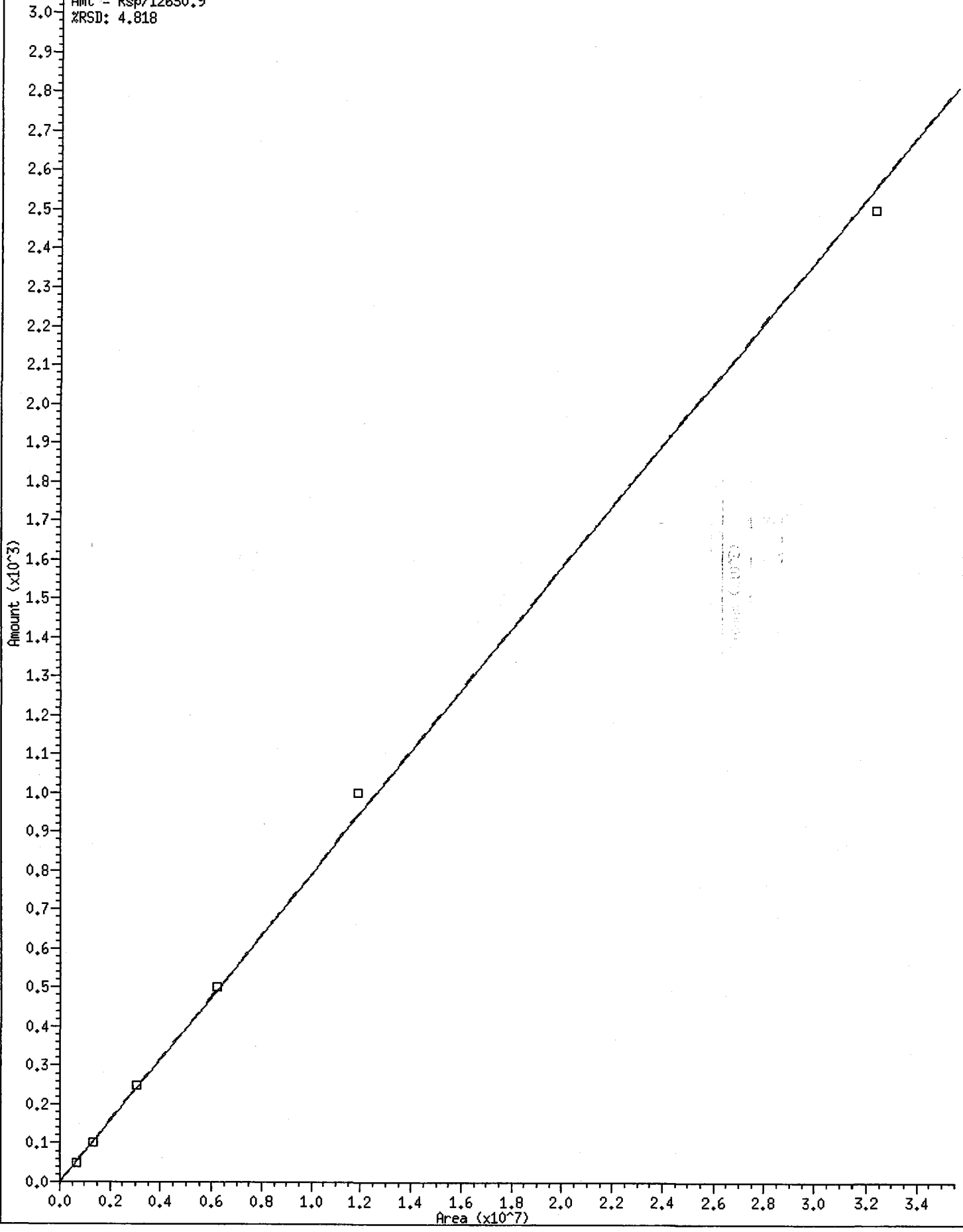


31 NW Diesel

Curve Type: Averaged By-Response
Amt = Rsp/11367.72
%RSD: 4.693



Curve Type: Averaged By-Response
Amt = Rsp/12630.9
%RSD: 4.818



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a003.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: RT
Client ID: RT
Injection: 22-JAN-2010 18:29
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.540	0.000	359952	171645	GAS (Tol-C12)	874036	74
C8	2.754	0.000	166751	168628	DIESEL (C12-C24)	1439142	127
C10	3.859	0.000	183358	195749	M.OIL (C24-C38)	1928519	207
C12	4.732	0.000	167286	201582	AK-102 (C10-C25)	1884384	149
C14	5.463	0.000	224318	204640	AK-103 (C25-C36)	1655433	240
C16	6.113	0.000	281083	216116	OR.DIES (C10-C28)	2727832	212
C18	6.729	0.000	318896	225471	OR.MOIL (C28-C40)	1309368	189
C20	7.322	0.000	292558	225560			
C22	7.877	0.000	330850	238830			
C24	8.398	0.000	349782	238742			
C25	8.649	0.000	437425	328514			
C26	8.895	0.000	310809	237959			
C28	9.401	0.000	304482	241511			
C32	10.440	0.000	250353	242097			
C34	10.957	0.000	248147	250255	CREOSOT (C12-C22)	1180699	421
Filter Peak	12.900	0.000	1002	1502	HYDRAUL (C24-C38)	1928519	170
C36	11.464	0.000	239702	242815			
C38	11.954	0.000	228737	248880			
C40	12.421	0.000	160767	216044			
o-terph	6.896	0.000	849231	737735	JET-A (C10-C18)	1117028	123
Triacon Surr	9.935	0.000	649909	823613			

Range Times: NW Diesel (4.732 - 8.398) AK102 (3.86 - 8.65) Jet A (3.86 - 6.73)
NW M.Oil (8.40 - 11.95) AK103 (8.65 - 11.46) OR Diesel (3.86 - 9.40)

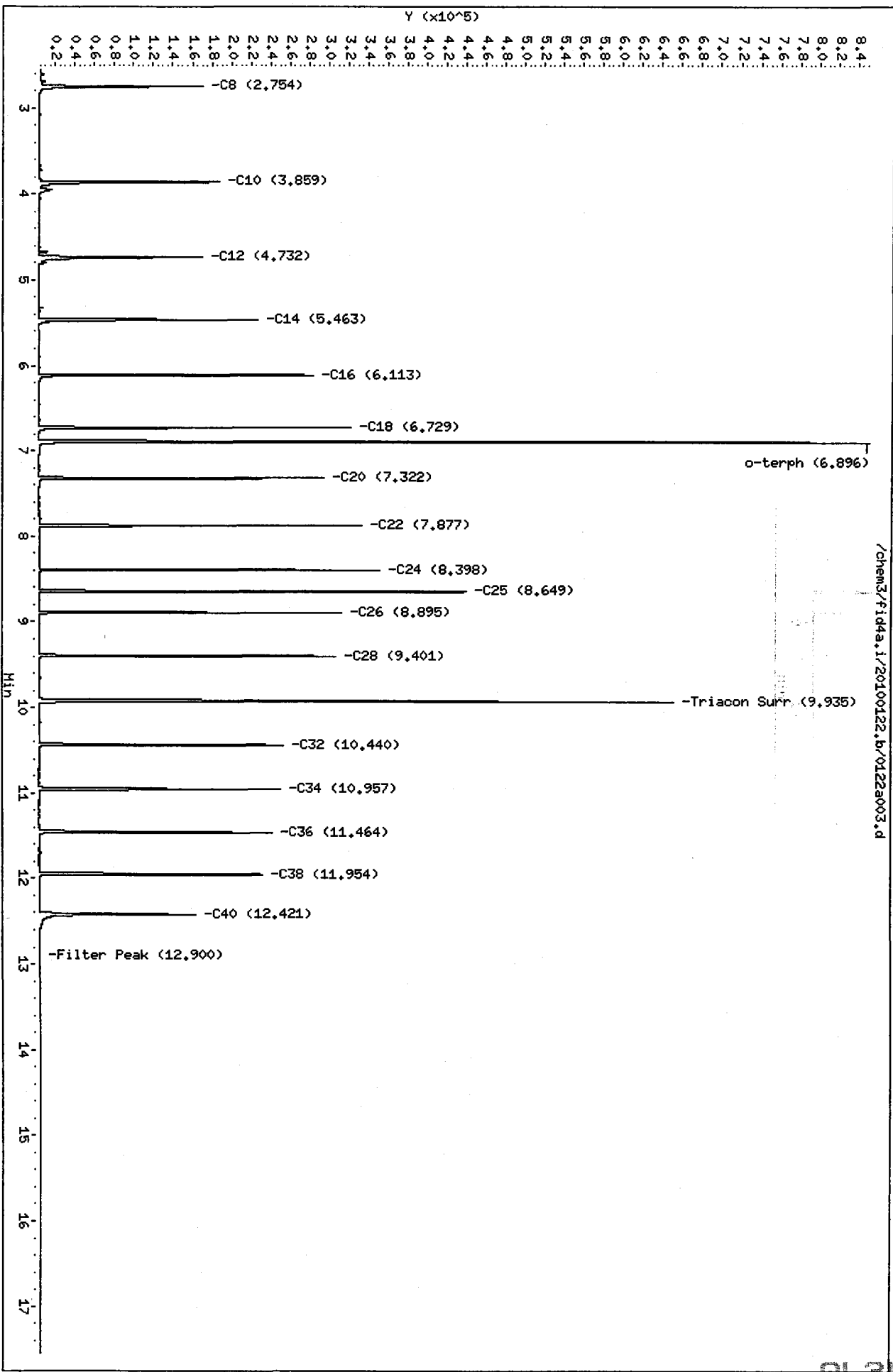
Surrogate	Area	Amount	%Rec
o-Terphenyl	737735	53.4	118.7
Triacontane	823613	56.0	124.5

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a003.d
Date : 22-JAN-2010 18:29
Client ID: RT
Sample Info: RT

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



01221 : 00701

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a004.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: IB
Client ID: IB
Injection: 22-JAN-2010 18:55
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.537	-0.003	119	114	GAS (Tol-C12)	40081	3
C8	2.743	-0.011	64	76	DIESEL (C12-C24)	68991	6
C10	3.867	0.008	393	407	M.OIL (C24-C38)	117793	13
C12	4.747	0.015	1075	2172	AK-102 (C10-C25)	96569	8
C14	5.450	-0.013	106	190	AK-103 (C25-C36)	97792	14
C16	6.112	0.000	168	115	OR.DIES (C10-C28)	117822	9
C18	6.728	-0.001	382	126	OR.MOIL (C28-C40)	110756	16
C20	7.345	0.023	515	1173			
C22	7.865	-0.012	407	381			
C24	8.413	0.015	584	1361			
C25	8.635	-0.014	852	1474			
C26	8.891	-0.004	421	303			
C28	9.401	0.000	954	1121			
C32	10.426	-0.014	773	1743			
C34	10.951	-0.006	612	679	CREOSOT (C12-C22)	56519	20
Filter Peak	12.902	0.002	972	1039	HYDRAUL (C24-C38)	117793	10
C36	11.454	-0.010	546	821			
C38	11.960	0.006	650	975			
C40	12.431	0.010	826	2459			
o-terph	6.894	-0.002	870902	896085	JET-A (C10-C18)	45755	5
Triacon Surr	9.930	-0.005	570424	714552			

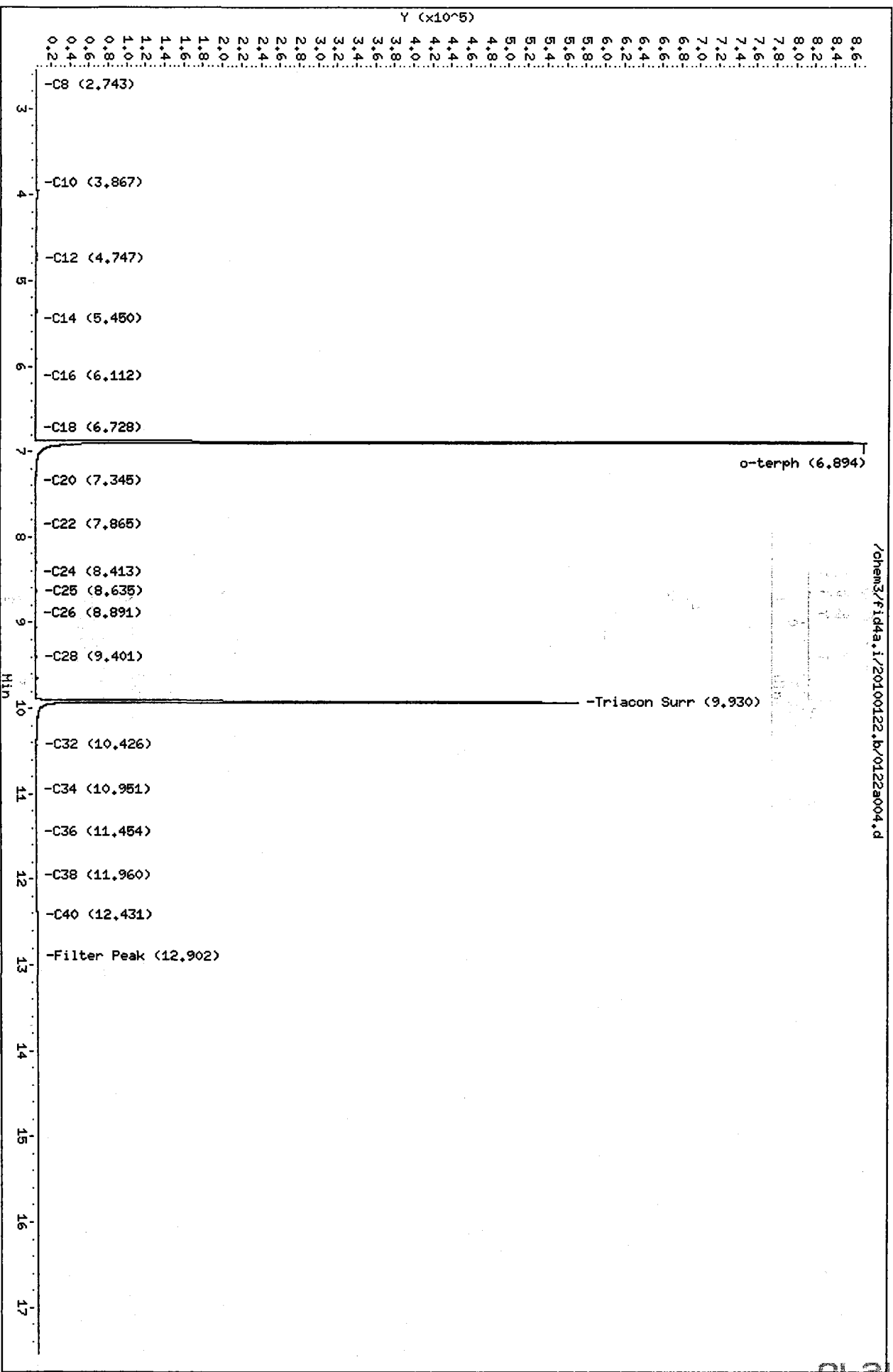
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	896085	64.9	144.2
Triacontane	714552	48.6	108.1

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a004.d
 Date : 22-JAN-2010 18:55
 Client ID: IB
 Sample Info: IB
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: ar
 Column diameter: 2.00



0122 : 00703

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a005.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: DIESEL 50
Client ID: DIESEL 50
Injection: 22-JAN-2010 19:20

Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.547	0.007	104	195	GAS (Tol-C12)	82906	7
C8	2.757	0.003	36	36	DIESEL (C12-C24)	583591	51
C10	3.873	0.014	723	1007	M.OIL (C24-C38)	98848	11
C12	4.730	-0.001	1611	3499	AK-102 (C10-C25)	649764	51
C14	5.449	-0.014	2138	1245	AK-103 (C25-C36)	77782	11
C16	6.120	0.008	14324	18905	OR.DIES (C10-C28)	676897	53
C18	6.747	0.018	8113	16574	OR.MOIL (C28-C40)	83174	12
C20	7.313	-0.009	2156	1276			
C22	7.890	0.013	1415	897			
C24	8.391	-0.007	999	354			
C25	8.646	-0.003	743	1152			
C26	8.904	0.008	626	406			
C28	9.412	0.011	488	353			
C32	10.440	0.001	499	176			
C34	10.964	0.006	477	604	CREOSOT (C12-C22)	552588	197
Filter Peak	12.892	-0.009	872	708	HYDRAUL (C24-C38)	98848	9
C36	11.460	-0.004	523	514			
C38	11.950	-0.004	606	190			
C40	12.422	0.001	725	457			
o-terph	6.892	-0.004	97939	113777	JET-A (C10-C18)	442659	49
Triacon Surr	9.941	0.006	423	181			

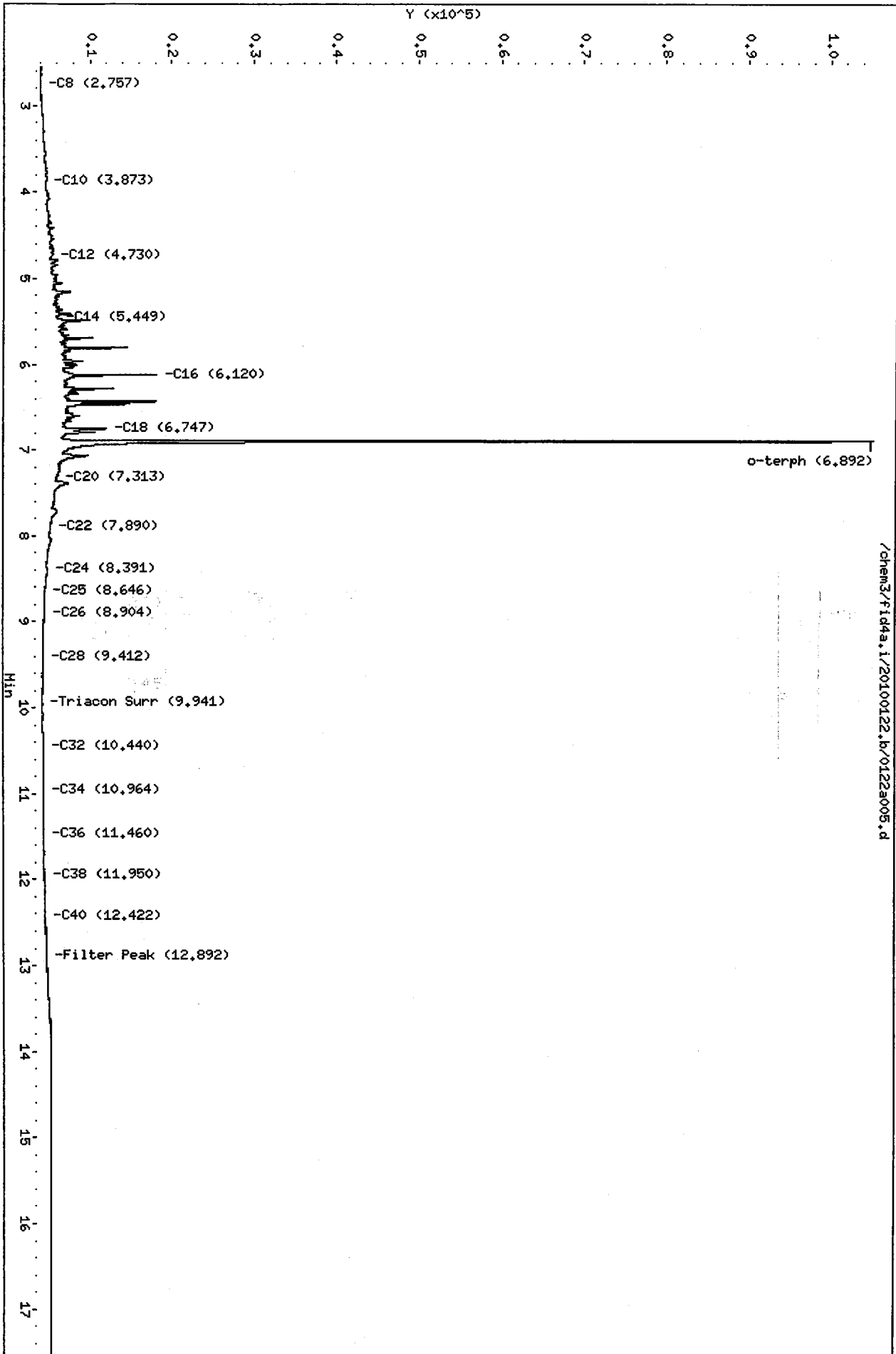
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	113777	8.2	18.3
Triacontane	181	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a005.d
Date : 22-JAN-2010 19:20
Client ID: DIESEL 50
Sample Info: DIESEL 50
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a005.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a006.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 100
Client ID: DIESEL 100
Injection: 22-JAN-2010 19:45
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.536	-0.004	152	336	GAS (Tol-C12)	171584	14
C8	2.746	-0.009	70	76	DIESEL (C12-C24)	1209480	106
C10	3.865	0.006	1650	3172	M.OIL (C24-C38)	101123	11
C12	4.736	0.004	3153	2296	AK-102 (C10-C25)	1348459	107
C14	5.466	0.003	19162	25130	AK-103 (C25-C36)	78693	11
C16	6.112	-0.001	43527	33534	OR.DIES (C10-C28)	1380934	108
C18	6.731	0.002	32963	36491	OR.MOIL (C28-C40)	76971	11
C20	7.335	0.013	13855	28194			
C22	7.876	-0.001	2470	4383			
C24	8.409	0.011	1275	728			
C25	8.641	-0.008	1103	1289			
C26	8.893	-0.003	776	776			
C28	9.403	0.002	533	700			
C32	10.441	0.001	521	496			
C34	10.964	0.006	452	227	CREOSOT (C12-C22)	1162648	415
Filter Peak	12.893	-0.007	847	368	HYDRAUL (C24-C38)	101123	9
C36	11.464	0.000	512	160			
C38	11.953	-0.001	586	461			
C40	12.411	-0.010	725	342			
o-terph	6.888	-0.008	314933	248629	JET-A (C10-C18)	976129	107
Triacon Surr	9.922	-0.013	435	473			

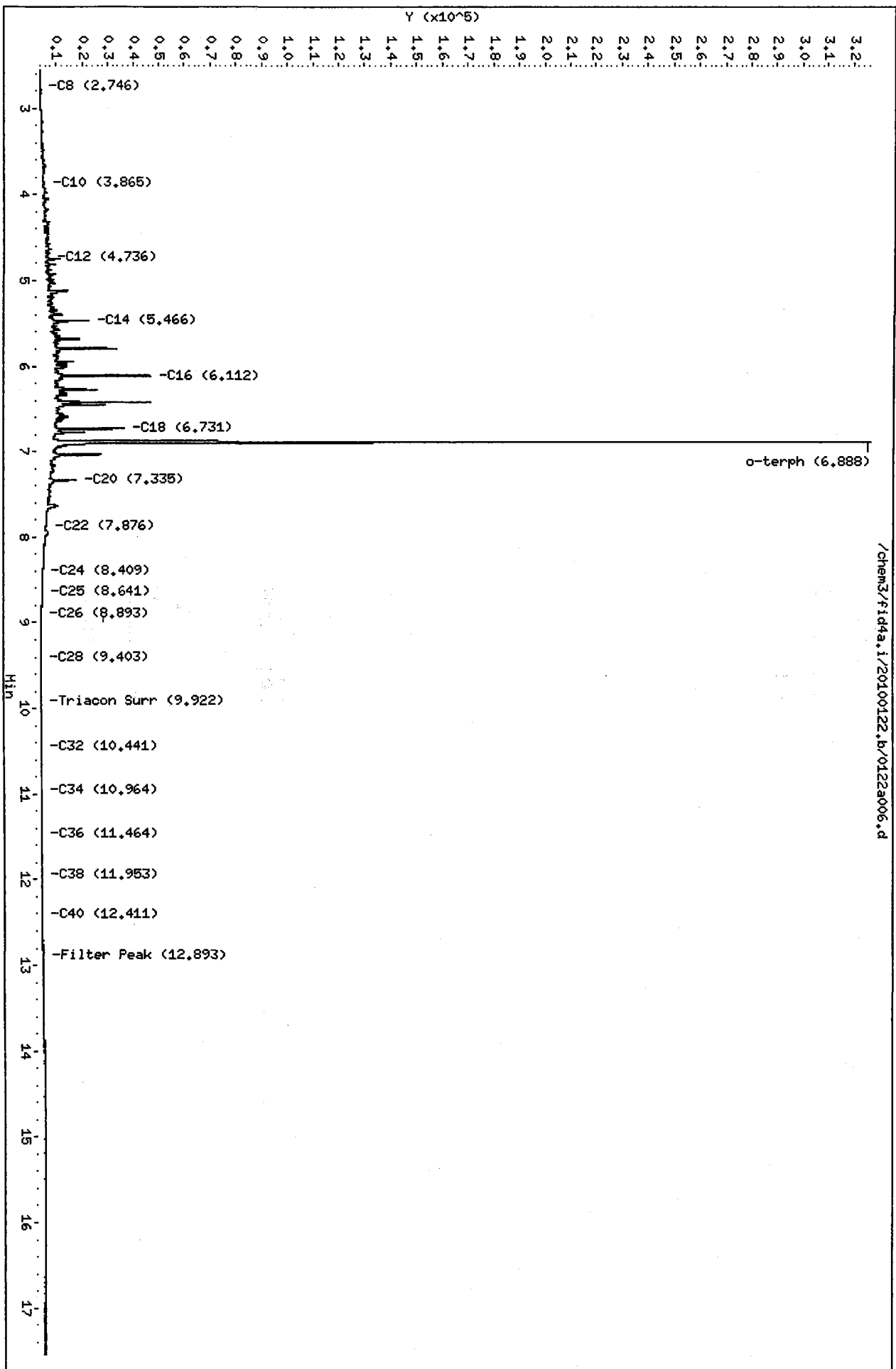
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	248629	18.0	40.0
Triacontane	473	0.0	0.1

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a006.d
Date : 22-JAN-2010 19:45
Client ID: DIESEL 100
Sample Info: DIESEL 100
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a007.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 250
Client ID: DIESEL 250
Injection: 22-JAN-2010 20:10
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.537	-0.003	575	617	GAS (Tol-C12)	378106	32
C8	2.737	-0.017	395	420	DIESEL (C12-C24)	2731132	240
C10	3.863	0.004	3083	3777	M.OIL (C24-C38)	113349	12
C12	4.728	-0.003	22496	24507	AK-102 (C10-C25)	3029248	240
C14	5.457	-0.006	53621	44371	AK-103 (C25-C36)	83888	12
C16	6.108	-0.005	106279	75868	OR.DIES (C10-C28)	3064699	239
C18	6.726	-0.003	91634	77235	OR.MOIL (C28-C40)	81204	12
C20	7.319	-0.003	52201	50374			
C22	7.889	0.012	13974	38281			
C24	8.396	-0.002	2217	4352			
C25	8.656	0.007	1405	2029			
C26	8.884	-0.011	1165	1465			
C28	9.406	0.006	598	598			
C32	10.434	-0.005	444	492			
C34	10.954	-0.004	461	323	CREOSOT (C12-C22)	2649181	945
Filter Peak	12.897	-0.004	842	333	HYDRAUL (C24-C38)	113349	10
C36	11.465	0.001	502	296			
C38	11.947	-0.007	584	1095			
C40	12.429	0.008	684	351			
o-terph	6.894	-0.002	764494	595748	JET-A (C10-C18)	2177788	239
Triacon Surr	9.930	-0.005	460	223			

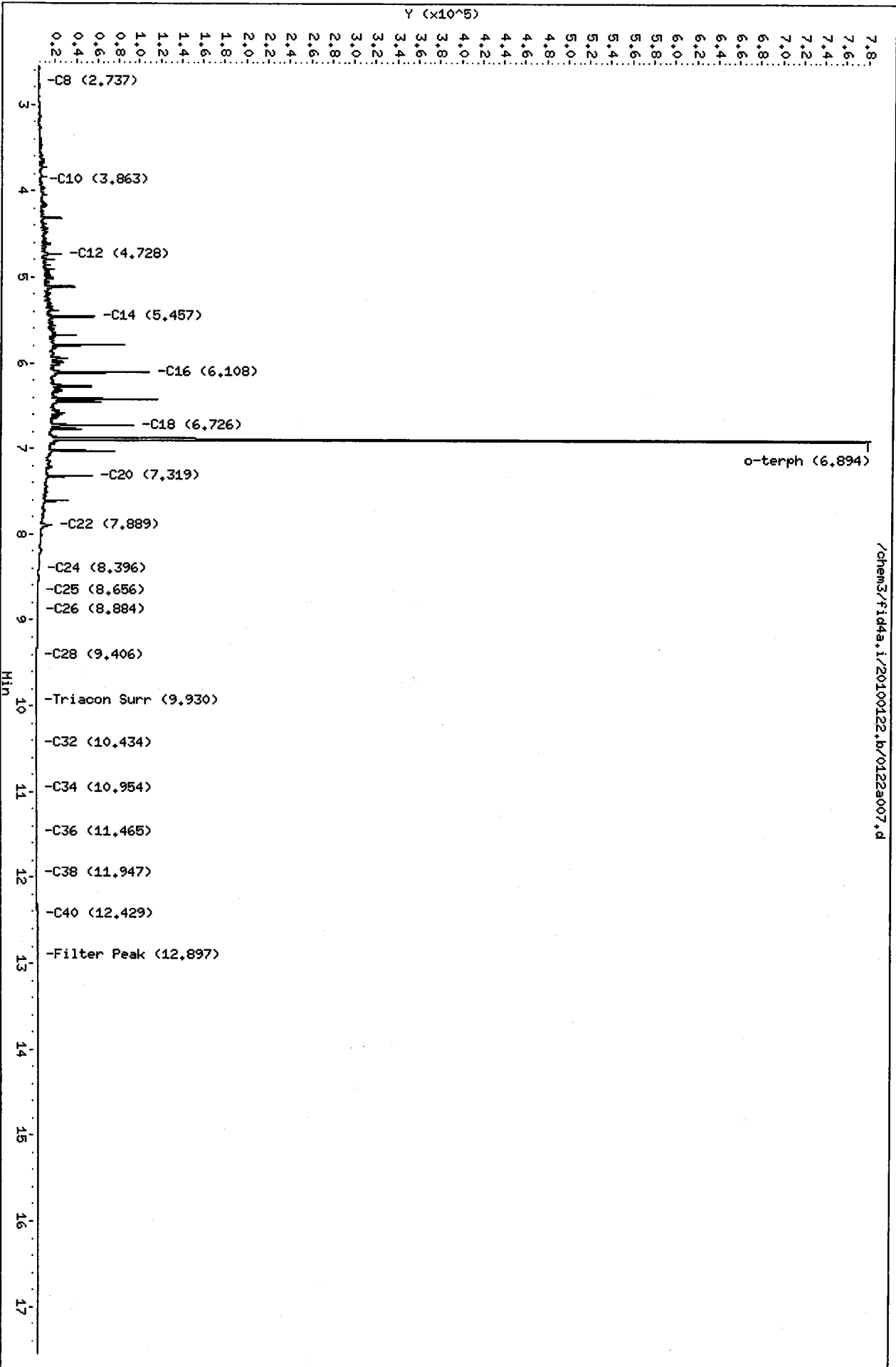
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	595748	43.1	95.9
Triacontane	223	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a007.d
Date: 22-JAN-2010 20:10
Client ID: DIESEL 250
Sample Info: DIESEL 250
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a008.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 500
Client ID: DIESEL 500
Injection: 22-JAN-2010 20:35
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.532	-0.008	1323	1114	GAS (Tol-C12)	763979	65
C8	2.748	-0.007	470	337	DIESEL (C12-C24)	5617653	494
C10	3.853	-0.005	7233	5892	M.OIL (C24-C38)	126876	14
C12	4.733	0.001	16597	15583	AK-102 (C10-C25)	6209346	492
C14	5.454	-0.009	121146	96555	AK-103 (C25-C36)	97091	14
C16	6.107	-0.006	233347	160370	OR.DIES (C10-C28)	6259154	487
C18	6.727	-0.002	197104	171950	OR.MOIL (C28-C40)	74358	11
C20	7.316	-0.006	120924	99889			
C22	7.876	-0.001	48473	54627			
C24	8.397	-0.001	3546	3262			
C25	8.646	-0.003	2271	1695			
C26	8.892	-0.003	1386	2811			
C28	9.392	-0.009	684	865			
C32	10.438	-0.002	443	464			
C34	10.961	0.004	421	673	CREOSOT (C12-C22)	5425194	1936
Filter Peak	12.910	0.010	796	664	HYDRAUL (C24-C38)	126876	11
C36	11.463	-0.002	467	165			
C38	11.964	0.010	544	278			
C40	12.424	0.003	669	496			
o-terph	6.903	0.007	1245371	1256288	JET-A (C10-C18)	4482480	493
Triacon Surr	9.941	0.006	449	519			

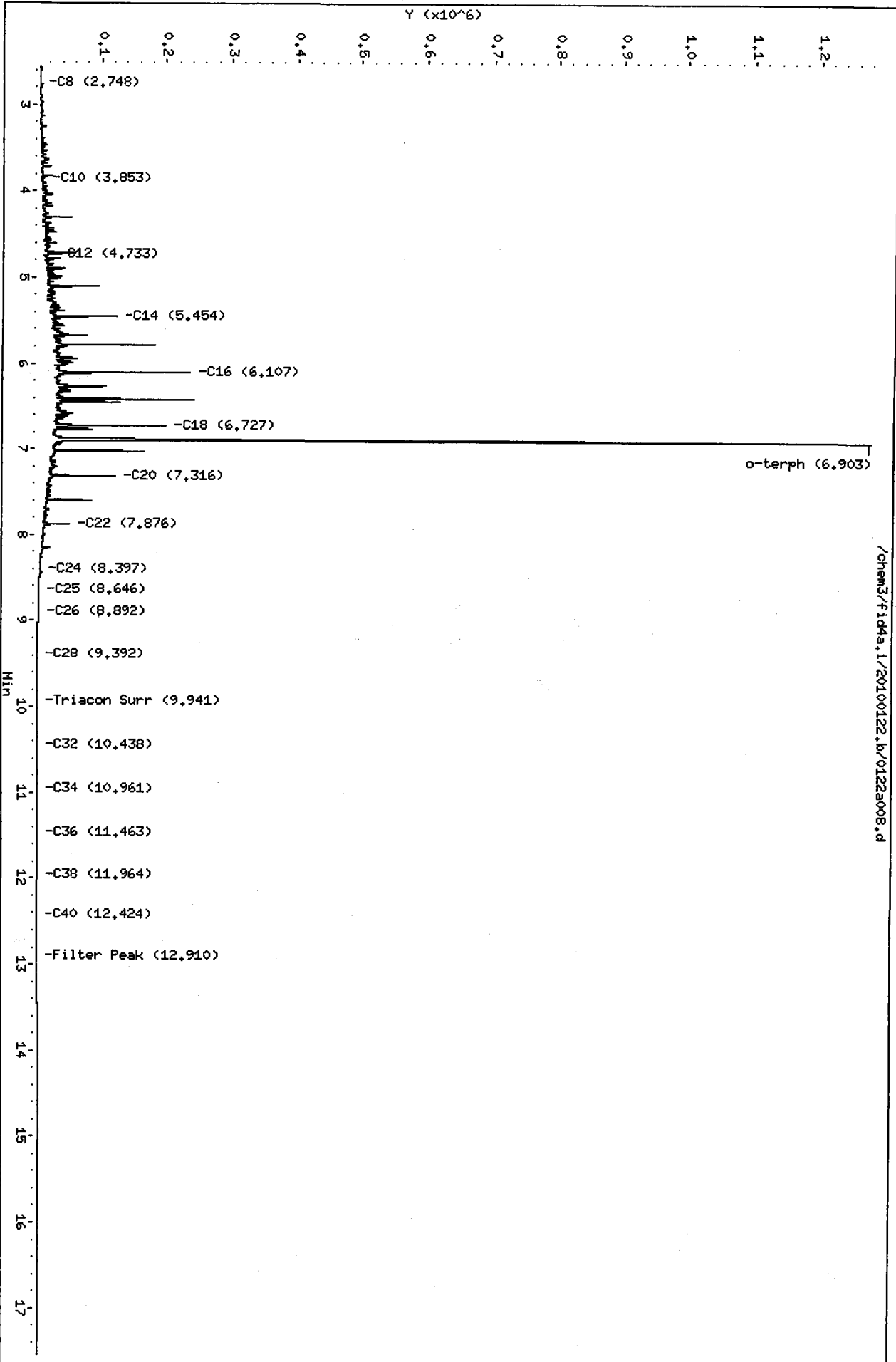
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1256288	91.0	202.2
Triacontane	519	0.0	0.1

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a008.d
Date: 22-JAN-2010 20:35
Client ID: DIESEL 500
Sample Info: DIESEL 500
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a008.d

11/20/10 10:10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a009.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 1000
Client ID: DIESEL 1000
Injection: 22-JAN-2010 21:01
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.533	-0.007	2460	2031	GAS (Tol-C12)	1532777	129
C8	2.768	0.014	9572	6607	DIESEL (C12-C24)	10647848	937
C10	3.865	0.006	7574	4852	M.OIL (C24-C38)	184504	20
C12	4.729	-0.002	32760	29816	AK-102 (C10-C25)	11855906	939
C14	5.472	0.009	60250	57443	AK-103 (C25-C36)	131256	19
C16	6.109	-0.004	424785	310333	OR.DIES (C10-C28)	11943363	930
C18	6.731	0.002	328756	317727	OR.MOIL (C28-C40)	71486	10
C20	7.317	-0.005	231385	188260			
C22	7.872	-0.005	102585	110593			
C24	8.407	0.009	18166	37681			
C25	8.610	-0.039	4323	10935			
C26	8.898	0.003	2025	1081			
C28	9.394	-0.007	868	833			
C32	10.435	-0.004	418	737			
C34	10.964	0.007	367	237	CREOSOT (C12-C22)	10261772	3661
Filter Peak	12.898	-0.002	724	474	HYDRAUL (C24-C38)	184504	16
C36	11.462	-0.002	414	89			
C38	11.934	-0.020	485	718			
C40	12.421	0.000	596	501			
o-terph	6.916	0.020	1863378	2455553	JET-A (C10-C18)	8501927	934
Triacon Surr	9.952	0.017	441	334			

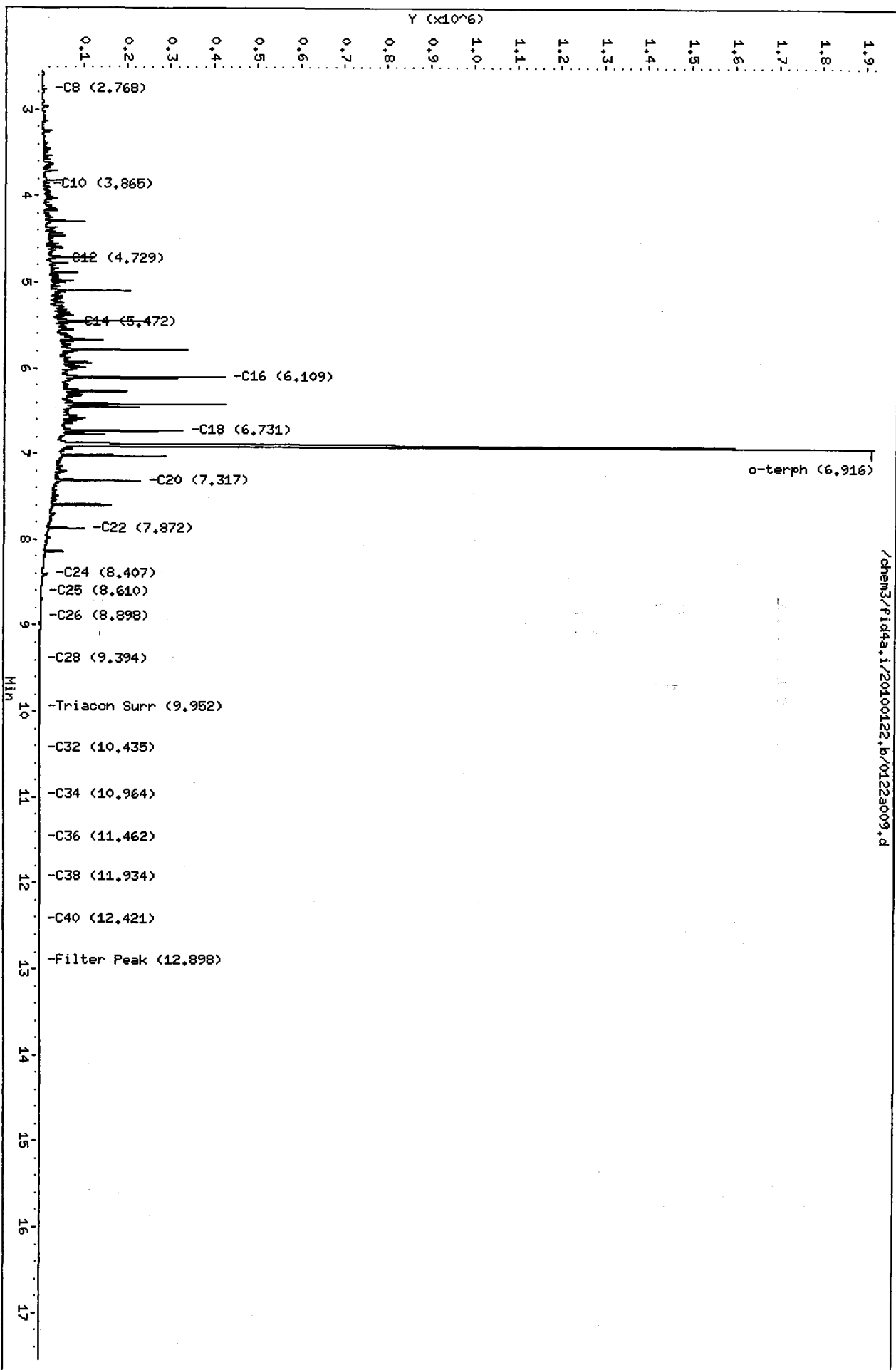
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2455553	177.9	395.2
Triacontane	334	0.0	0.1

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a009.d
Date: 22-JAN-2010 21:01
Client ID: DIESEL 1000
Sample Info: DIESEL 1000
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a009.d

0122 : 00718

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a010.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL 2500
Client ID: DIESEL 2500
Injection: 22-JAN-2010 21:26
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.529	-0.011	3362	3441	GAS (Tol-C12)	4008928	338
C8	2.752	-0.002	5547	5852	DIESEL (C12-C24)	29080003	2558
C10	3.864	0.005	19921	11594	M.OIL (C24-C38)	356504	38
C12	4.729	-0.003	88391	76239	AK-102 (C10-C25)	32284880	2556
C14	5.458	-0.005	553997	522159	AK-103 (C25-C36)	219964	32
C16	6.119	0.007	834343	889658	OR.DIES (C10-C28)	32477654	2529
C18	6.744	0.015	593229	1005577	OR.MOIL (C28-C40)	38213	6
C20	7.327	0.005	522685	557970			
C22	7.876	-0.001	293482	258420			
C24	8.393	-0.005	89688	88491			
C25	8.646	-0.003	30156	68250			
C26	8.883	-0.012	4271	3630			
C28	9.408	0.007	1049	1892			
C32	10.434	-0.006	161	257			
C34	10.945	-0.013	125	158	CREOSOT (C12-C22)	28031993	10002
Filter Peak	12.904	0.004	432	288	HYDRAUL (C24-C38)	356504	31
C36	11.449	-0.015	146	55			
C38	11.957	0.003	231	276			
C40	12.426	0.005	288	307			
o-terph	6.948	0.052	3177164	6995488	JET-A (C10-C18)	22806388	2507
Triacon Surr	9.934	-0.001	530	466			

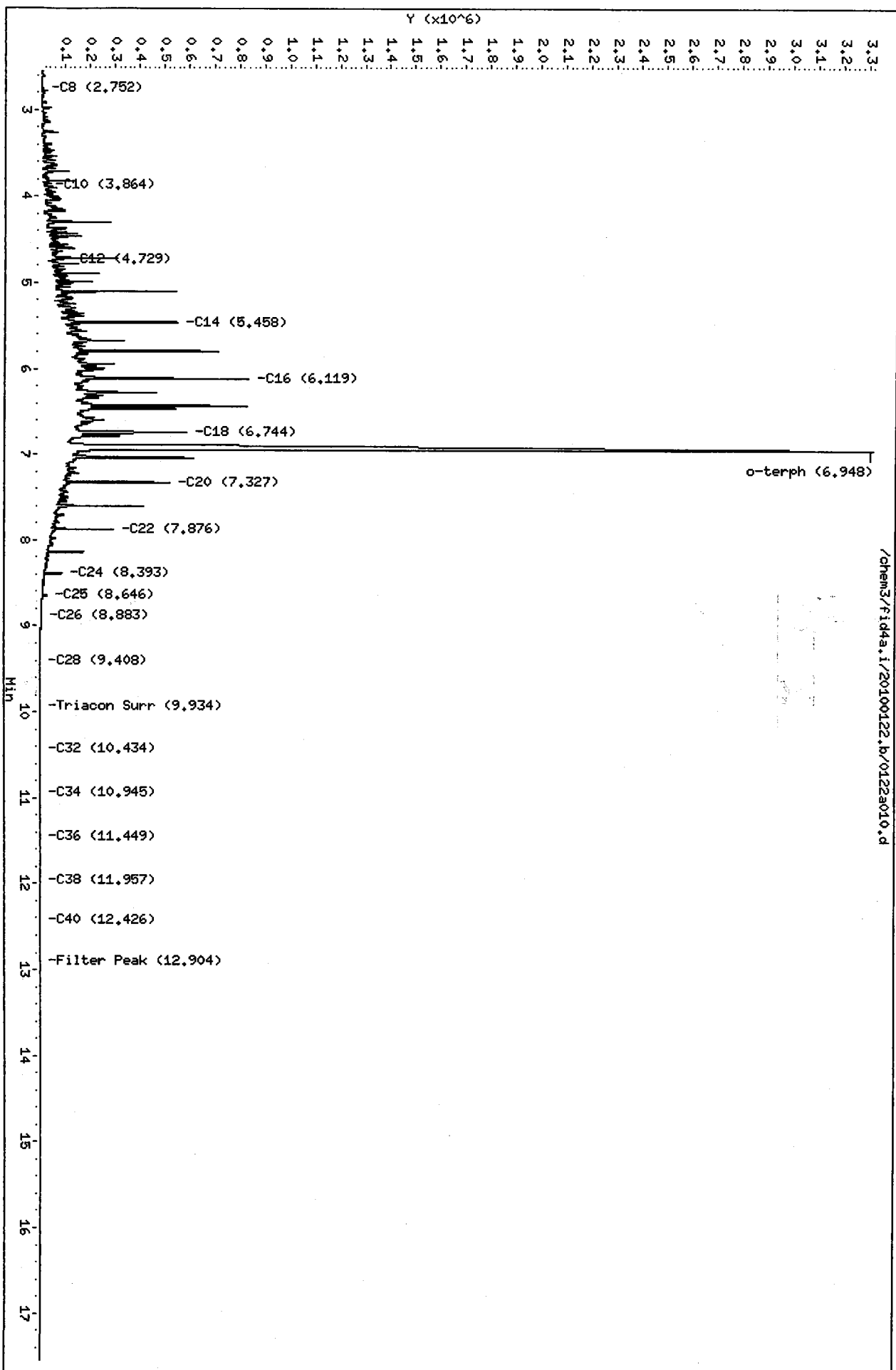
Range Times: NW Diesel (4.732 - 8.398) AK102 (3.86 - 8.65) Jet A (3.86 - 6.73)
NW M.Oil (8.40 - 11.95) AK103 (8.65 - 11.46) OR Diesel (3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	6995488	506.7	1125.9
Triacontane	466	0.0	0.1

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a010.d
Date : 22-JAN-2010 21:26
Client ID: DIESEL 2500
Sample Info: DIESEL 2500
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a010.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100122.b/0122a011.d
Method: /chem3/fid4a.i/20100122.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/25/2010
Macro: 22-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL ICV
Client ID: DIESEL ICV
Injection: 22-JAN-2010 21:51
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.525	-0.015	1164	942	GAS (Tol-C12)	486790	41
C8	2.746	-0.008	756	552	DIESEL (C12-C24)	2504551	220
C10	3.856	-0.003	6144	4924	M.OIL (C24-C38)	107823	12
C12	4.723	-0.008	38906	35986	AK-102 (C10-C25)	2880347	228
C14	5.456	-0.006	69425	58281	AK-103 (C25-C36)	82799	12
C16	6.108	-0.005	77916	63080	OR.DIES (C10-C28)	2919178	227
C18	6.725	-0.004	60399	54791	OR.MOIL (C28-C40)	70558	10
C20	7.321	-0.001	34738	42654			
C22	7.869	-0.008	3786	2322			
C24	8.387	-0.011	1930	4444			
C25	8.660	0.011	1274	1462			
C26	8.909	0.013	1010	1291			
C28	9.401	0.000	580	499			
C32	10.434	-0.005	439	546			
C34	10.956	-0.001	383	399	CREOSOT (C12-C22)	2432563	868
Filter Peak	12.900	0.000	754	357	HYDRAUL (C24-C38)	107823	10
C36	11.461	-0.004	434	449			
C38	11.955	0.000	513	499			
C40	12.423	0.002	624	516			
o-terph	6.893	-0.003	779762	609141	JET-A (C10-C18)	2206335	243
Triacon Surr	9.913	-0.022	417	993			

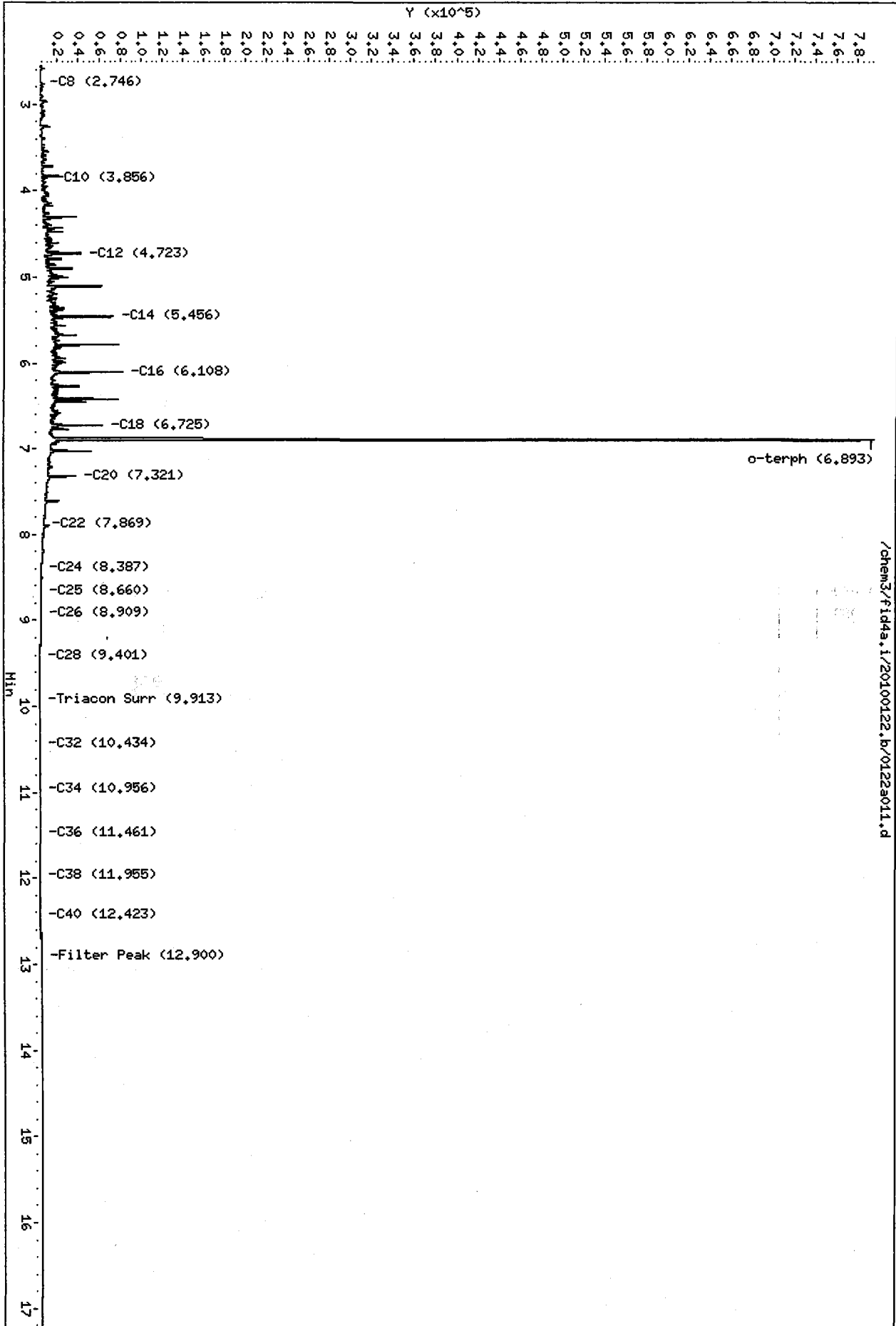
Range Times: NW Diesel(4.732 - 8.398) AK102(3.86 - 8.65) Jet A(3.86 - 6.73)
NW M.Oil(8.40 - 11.95) AK103(8.65 - 11.46) OR Diesel(3.86 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	609141	44.1	98.0
Triacontane	993	0.1	0.2

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100122.b/0122a011.d
Date : 22-JAN-2010 21:51
Client ID: DIESEL ICV
Sample Info: DIESEL ICV
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100122.b/0122a011.d

11:00:00

6a
NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

Instrument: FID4A.I

Project: LORA LAKE APTS.

Calibration Date: 22-JAN-2010

SDG No.: QL34

Motor Oil Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil	9786	9956	8959	9680	9090	8344	9302	6.6
AK M.Oil	8128	8343	7480	8087	7714	7640	7899	4.2
OR M.Oil	8648	8727	7919	8418	7521	6171	7901	12.2
Triac Surr	13110	15033	14220	15386	15049	15372	14695	6.0

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36
 OR M.Oil C28-C40

Calibration Files Analysis Time

0121a014.d	22-JAN-2010 01:30
0121a015.d	22-JAN-2010 01:55
0121a016.d	22-JAN-2010 02:21
0121a017.d	22-JAN-2010 02:45
0121a018.d	22-JAN-2010 03:10
0121a019.d	22-JAN-2010 03:35

Analytical Resources, Inc.

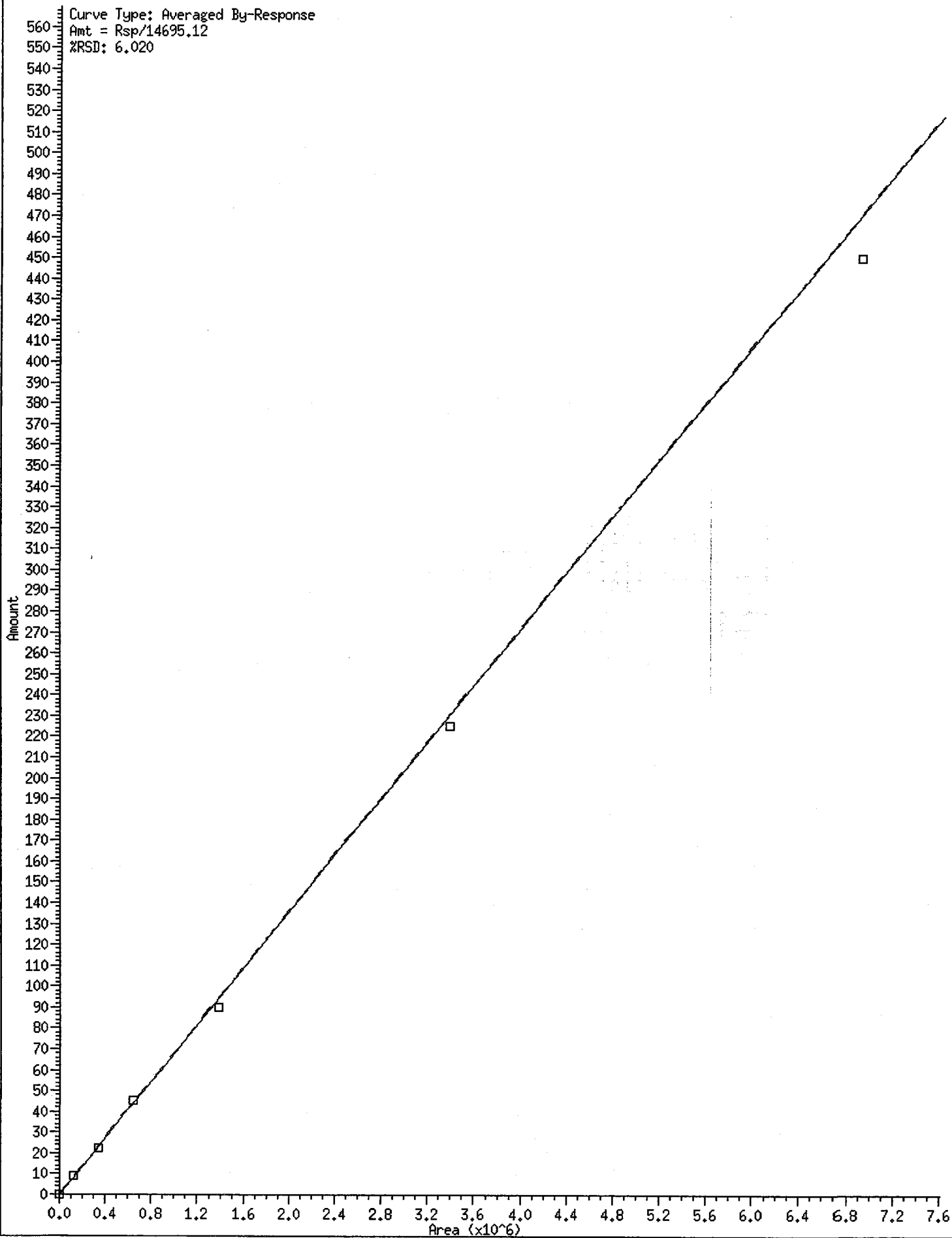
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2004 08:49
 End Cal Date : 22-JAN-2010 03:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem3/fid4a.i/20100121.b/ftphfid4a.m
 Cal Date : 22-Jan-2010 17:02 marys
 Curve Type : Average

Compound	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7		
	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00		
	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12			
31 NW Diesel	++++ 12342	++++	13107 ++++	13346 ++++	13092 ++++	13250 ++++		13027	3.049 <-
32 OR Diesel	++++	++++	++++	++++	++++	++++		++++	++++ <-
33 AK Dies 102	++++ 13944	14910 ++++	15030 ++++	14643 ++++	14783 ++++	13745 ++++		14509	3.684
30 NW MOil	++++	++++	++++	++++	++++	++++		++++	++++ <-
34 OR MOil	++++	++++	++++	++++	++++	++++		++++	++++ <-
35 AK MOil 103	++++	++++	++++	++++	++++	++++		++++	++++ <-
\$ 8 o-terph	++++ 16484	15389 ++++	15737 ++++	15720 ++++	16364 ++++	15418 ++++		15852	2.953
\$ 15 Triacon Surr	++++	13110 ++++	15033 ++++	14220 ++++	15386 ++++	15049 ++++		14695	6.020

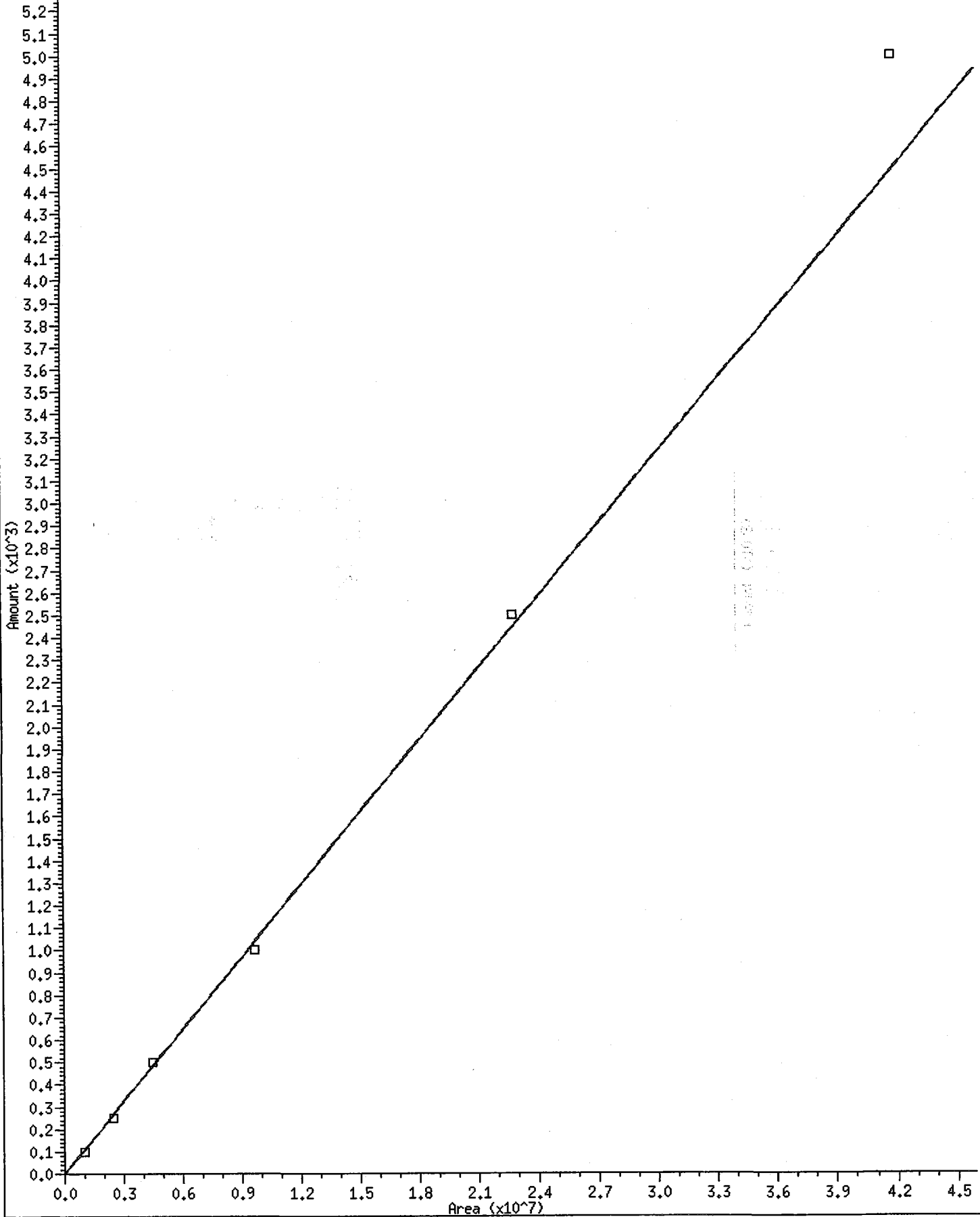
* 15 Triacon Surr

Curve Type: Averaged By-Response
Amt = Rsp/14695.12
%RSD: 6.020



QL34:00720

Curve Type: Averaged By-Response
Amt = Rsp/9302.486
%RSD: 6.603



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a004.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: RT
Client ID:
Injection: 21-JAN-2010 21:19

Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.518	0.000	323337	158056	GAS (Tol-C12)	782864	66
C8	2.738	0.000	158757	152274	DIESEL (C12-C24)	1259365	97
C10	3.855	0.000	166819	169707	M.OIL (C24-C38)	1746153	188
C12	4.730	0.000	157101	177248	AK-102 (C10-C25)	1649121	114
C14	5.461	0.000	198382	180372	AK-103 (C25-C36)	1494340	217
C16	6.112	0.000	262705	189877	OR.DIES (C10-C28)	2403209	160
C18	6.729	0.000	314673	197618	OR.MOIL (C28-C40)	1226888	177
C20	7.320	0.000	260743	196890			
C22	7.878	0.000	298105	209893			
C24	8.400	0.000	320119	208675			
C25	8.651	0.000	402527	295126			
C26	8.897	0.000	287683	211662			
C28	9.403	0.000	259906	215874			
C32	10.444	0.000	236848	215968			
C34	10.961	0.000	220328	222723	CREOSOT (C12-C22)	1030827	368
Filter Peak	12.906	0.000	1287	661	HYDRAUL (C24-C38)	1746153	154
C36	11.466	0.000	229998	215372			
C38	11.956	0.000	210571	224054			
C40	12.426	0.000	192979	220405			
o-terph	6.894	0.000	763252	647255	JET-A (C10-C18)	975487	107
Triacon Surr	9.938	0.000	614279	735500			

Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	647255	40.8	90.7
Triacontane	735500	50.1	111.2

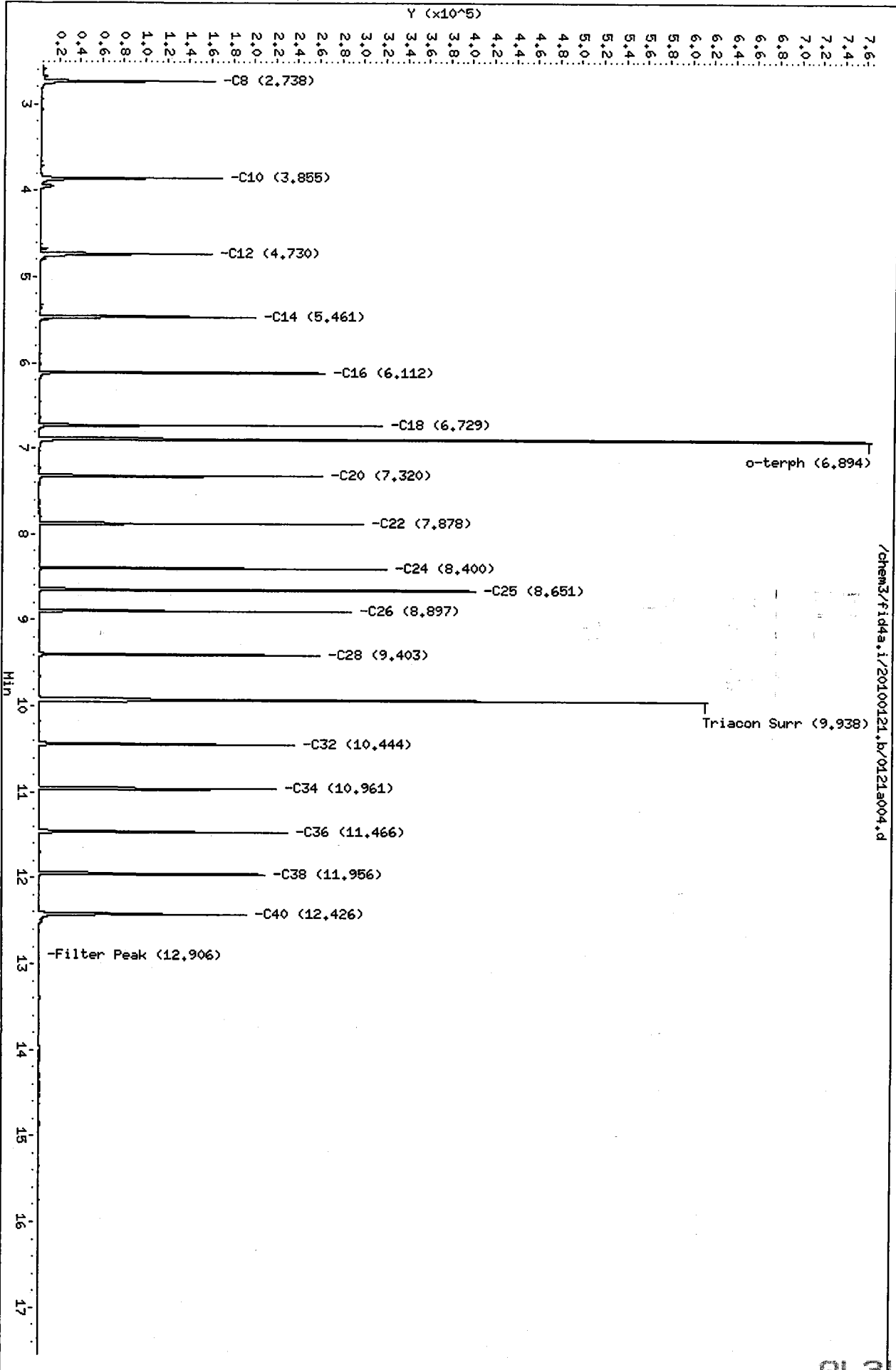
Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a004.d
Date : 21-JAN-2010 21:19

Client ID:
Sample Info: RT

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100121.b/0121a004.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a005.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010

ARI ID: IB
Client ID:
Injection: 21-JAN-2010 21:44

Dilution Factor: 1

Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.533	0.016	124	89	GAS (Tol-C12)	35681	3
C8	2.738	0.000	52	70	DIESEL (C12-C24)	58195	4
C10	3.851	-0.004	456	617	M.OIL (C24-C38)	119458	13
C12	4.735	0.005	793	1540	AK-102 (C10-C25)	81461	6
C14	5.468	0.007	103	140	AK-103 (C25-C36)	95984	14
C16	6.115	0.003	204	145	OR.DIES (C10-C28)	105090	7
C18	6.732	0.003	332	232	OR.MOIL (C28-C40)	115072	17
C20	7.318	-0.002	439	546			
C22	7.888	0.010	431	637			
C24	8.399	0.000	522	1124			
C25	8.635	-0.015	615	1003			
C26	8.901	0.004	479	409			
C28	9.399	-0.004	1037	1446			
C32	10.432	-0.012	696	1159			
C34	10.963	0.003	642	413	CREOSOT (C12-C22)	47225	17
Filter Peak	12.905	-0.001	1216	674	HYDRAUL (C24-C38)	119458	11
C36	11.465	-0.001	705	389			
C38	11.948	-0.008	833	1081			
C40	12.424	-0.002	972	924			
o-terph	6.895	0.001	903326	877561	JET-A (C10-C18)	40017	4
Triacon Surr	9.933	-0.005	559849	711165			

Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	877561	55.4	123.0
Triacontane	711165	48.4	107.5

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a005.d
Date: 21-JAN-2010 21:44

Client ID:

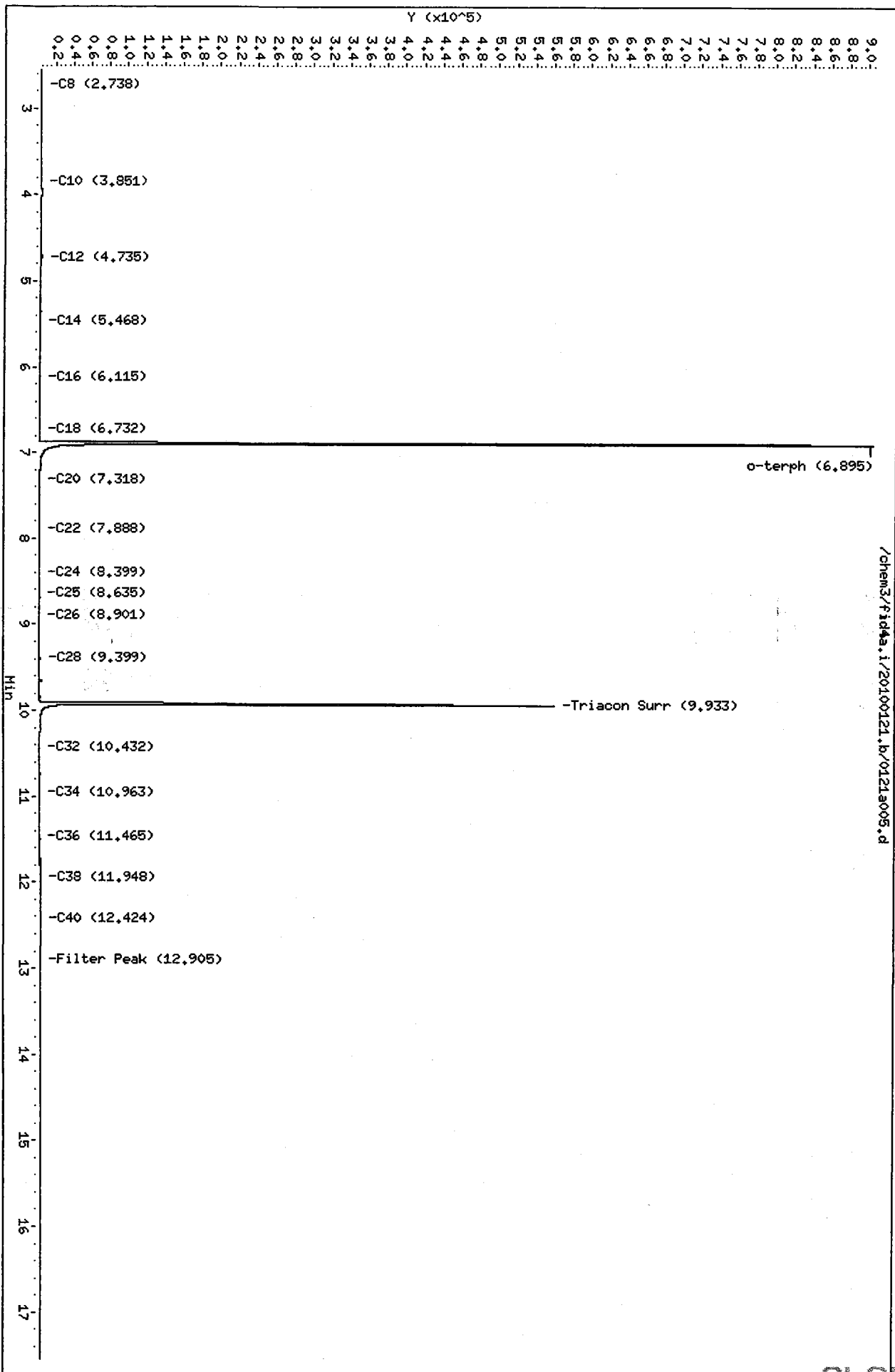
Sample Info: IB

Column phase: RTX-1

Instrument: fid4a.i

Operator: ar

Column diameter: 2.00



/chem3/fid4a.i/20100121.b/0121a005.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a014.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL 100
Client ID: MOIL 100
Injection: 22-JAN-2010 01:30
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.491	-0.027	128	239	GAS (Tol-C12)	31579	3
C8	2.737	-0.002	46	31	DIESEL (C12-C24)	165466	13
C10	3.851	-0.004	418	709	M.OIL (C24-C38)	978650	105
C12	4.728	-0.002	199	261	AK-102 (C10-C25)	211506	15
C14	5.458	-0.003	94	35	AK-103 (C25-C36)	812765	118
C16	6.119	0.007	288	255	OR.DIES (C10-C28)	415037	28
C18	6.700	-0.029	819	3281	OR.MOIL (C28-C40)	864832	125
C20	7.320	0.000	797	842			
C22	7.877	-0.001	1764	2549			
C24	8.399	-0.001	3053	1505			
C25	8.644	-0.006	3825	6453			
C26	8.894	-0.003	4110	2363			
C28	9.390	-0.013	4917	4630			
C32	10.452	0.009	5279	2686			
C34	10.951	-0.009	5698	8911	CREOSOT (C12-C22)	89044	32
Filter Peak	12.896	-0.010	3877	5460	HYDRAUL (C24-C38)	978650	86
C36	11.458	-0.008	5147	7257			
C38	11.958	0.002	4897	4383			
C40	12.427	0.001	4377	5354			
o-terph	6.900	0.006	518	518	JET-A (C10-C18)	41980	5
Triacon Surr	9.916	-0.022	153245	117991			

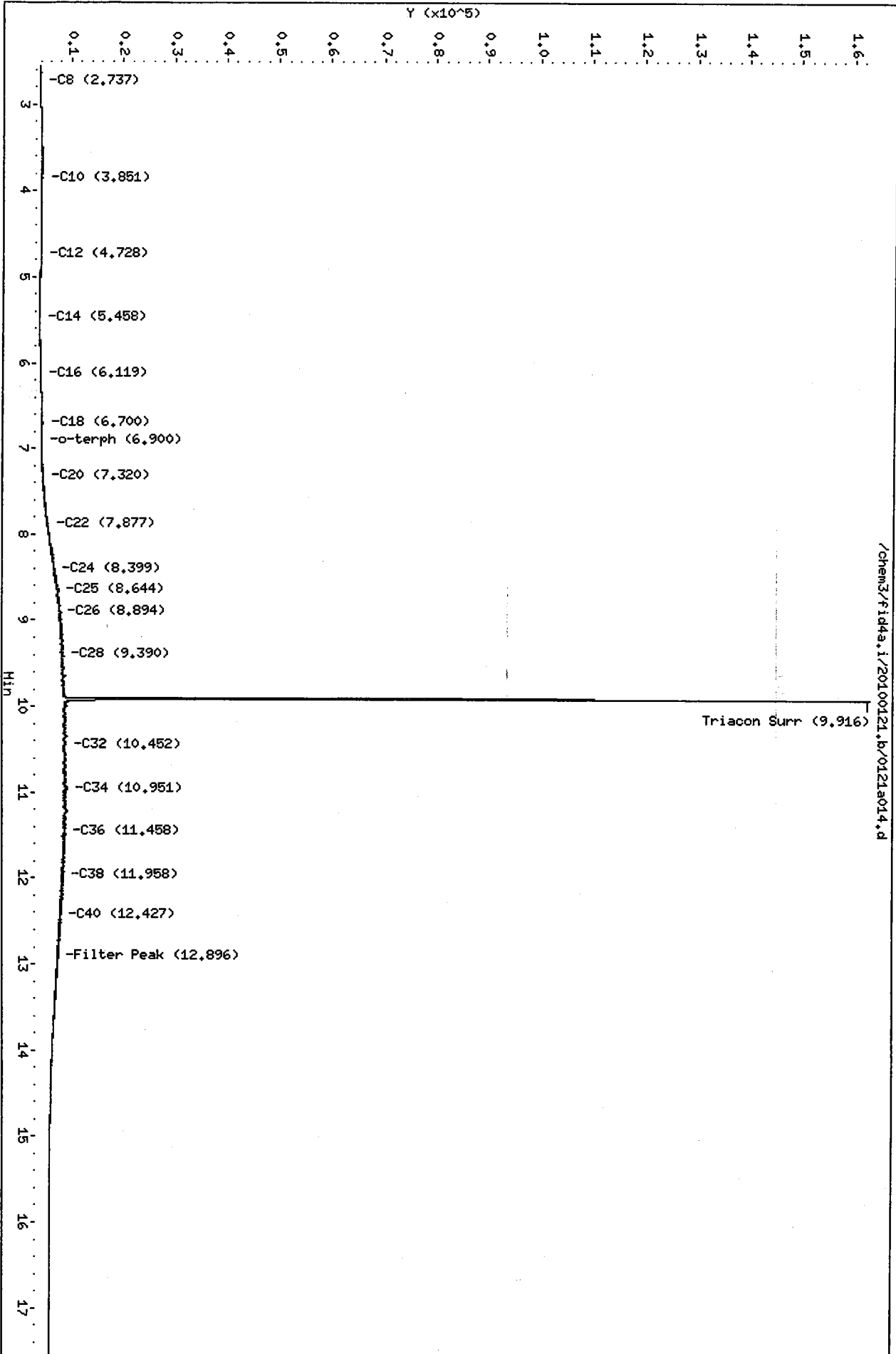
Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	518	0.0	0.1
Triacontane	117991	8.0	17.8

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a014.d
Date: 22-JAN-2010 01:30
Client ID: MOIL 100
Sample Info: MOIL 100
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100121.b/0121a014.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a015.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL 250
Client ID: MOIL 250
Injection: 22-JAN-2010 01:55
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.509	-0.008	122	20	GAS (Tol-C12)	32749	3
C8	2.740	0.002	45	41	DIESEL (C12-C24)	333151	26
C10	3.854	0.000	444	590	M.OIL (C24-C38)	2489044	268
C12	4.726	-0.004	213	165	AK-102 (C10-C25)	417609	29
C14	5.462	0.001	118	176	AK-103 (C25-C36)	2085781	302
C16	6.111	-0.001	327	87	OR.DIES (C10-C28)	949210	63
C18	6.745	0.016	599	595	OR.MOIL (C28-C40)	2181640	314
C20	7.336	0.016	1385	2004			
C22	7.882	0.004	3788	3428			
C24	8.401	0.002	7472	6289			
C25	8.661	0.011	9783	10104			
C26	8.894	-0.003	10481	3257			
C28	9.407	0.004	12055	12193			
C32	10.451	0.007	13377	16232			
C34	10.958	-0.002	14199	25237	CREOSOT (C12-C22)	149999	54
Filter Peak	12.910	0.004	8287	10422	HYDRAUL (C24-C38)	2489044	219
C36	11.470	0.005	12668	11490			
C38	11.951	-0.004	11600	6763			
C40	12.432	0.006	10348	5965			
o-terph	6.885	-0.009	637	1141	JET-A (C10-C18)	47251	5
Triacon Surr	9.925	-0.013	357158	338233			

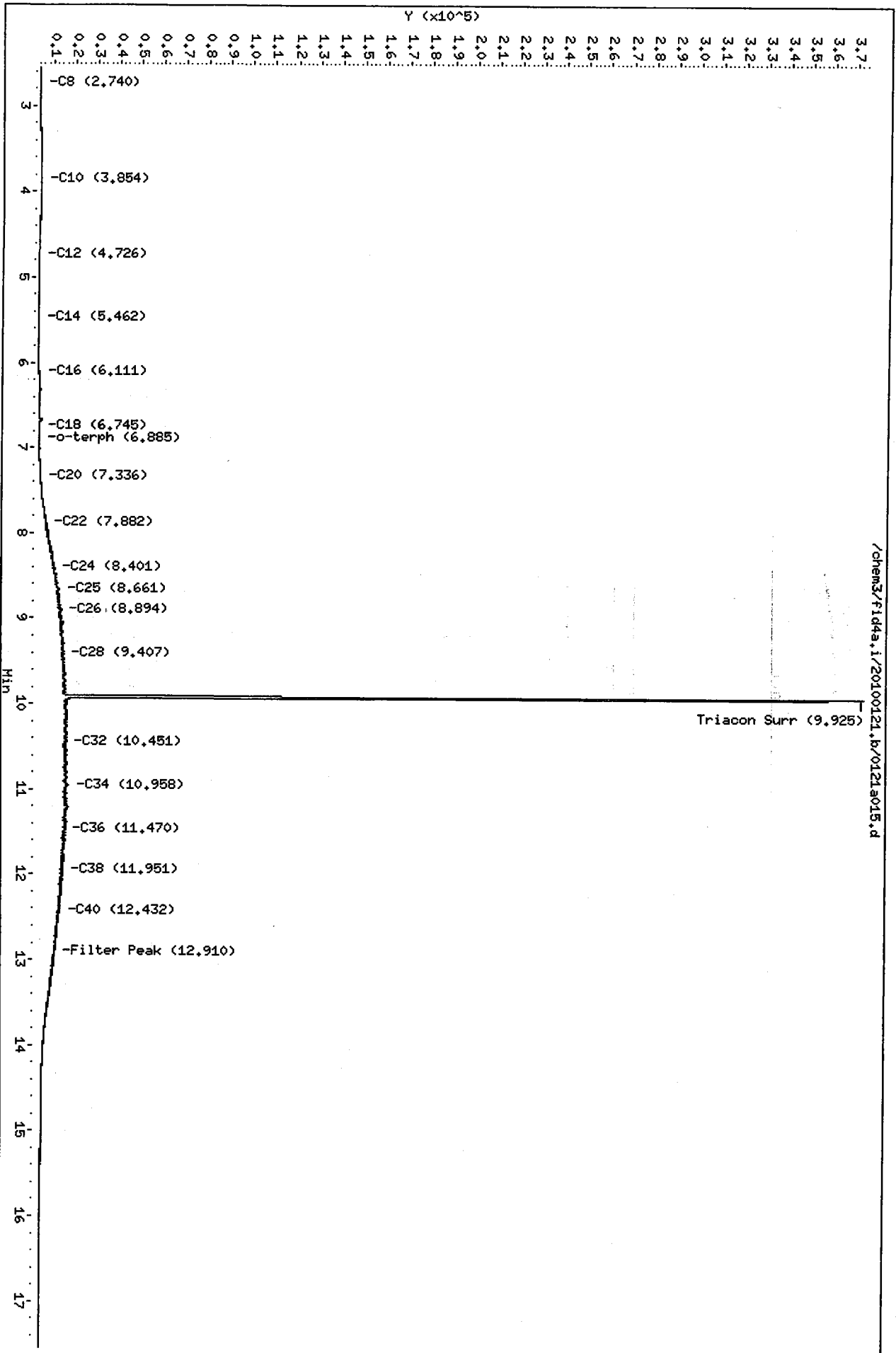
Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1141	0.1	0.2
Triacontane	338233	23.0	51.1

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a015.d
Date : 22-JAN-2010 01:55
Client ID: MOIL 250
Sample Info: MOIL 250
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



0124 : 00720

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a016.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: MOIL 500
Client ID: MOIL 500
Injection: 22-JAN-2010 02:21

Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.498	-0.020	136	248	GAS (Tol-C12)	32308	3
C8	2.737	-0.001	42	58	DIESEL (C12-C24)	530048	41
C10	3.851	-0.004	447	767	M.OIL (C24-C38)	4479434	482
C12	4.737	0.008	214	324	AK-102 (C10-C25)	669255	46
C14	5.465	0.004	130	155	AK-103 (C25-C36)	3739897	542
C16	6.108	-0.004	335	231	OR.DIESEL (C10-C28)	1577627	105
C18	6.759	0.030	725	812	OR.MOIL (C28-C40)	3959317	570
C20	7.326	0.006	2171	4070			
C22	7.879	0.001	6751	7309			
C24	8.396	-0.004	13321	11732			
C25	8.643	-0.007	16900	13112			
C26	8.889	-0.008	18686	9477			
C28	9.391	-0.012	22628	15655			
C32	10.436	-0.008	25880	47866			
C34	10.964	0.004	26630	15569	CREOSOT (C12-C22)	228436	82
Filter Peak	12.902	-0.004	14490	17369	HYDRAUL (C24-C38)	4479434	395
C36	11.472	0.007	23426	9152			
C38	11.954	-0.002	21723	23799			
C40	12.422	-0.003	18741	12235			
o-terph	6.901	0.006	852	617	JET-A (C10-C18)	52243	6
Triacon Surr	9.936	-0.002	564797	639918			

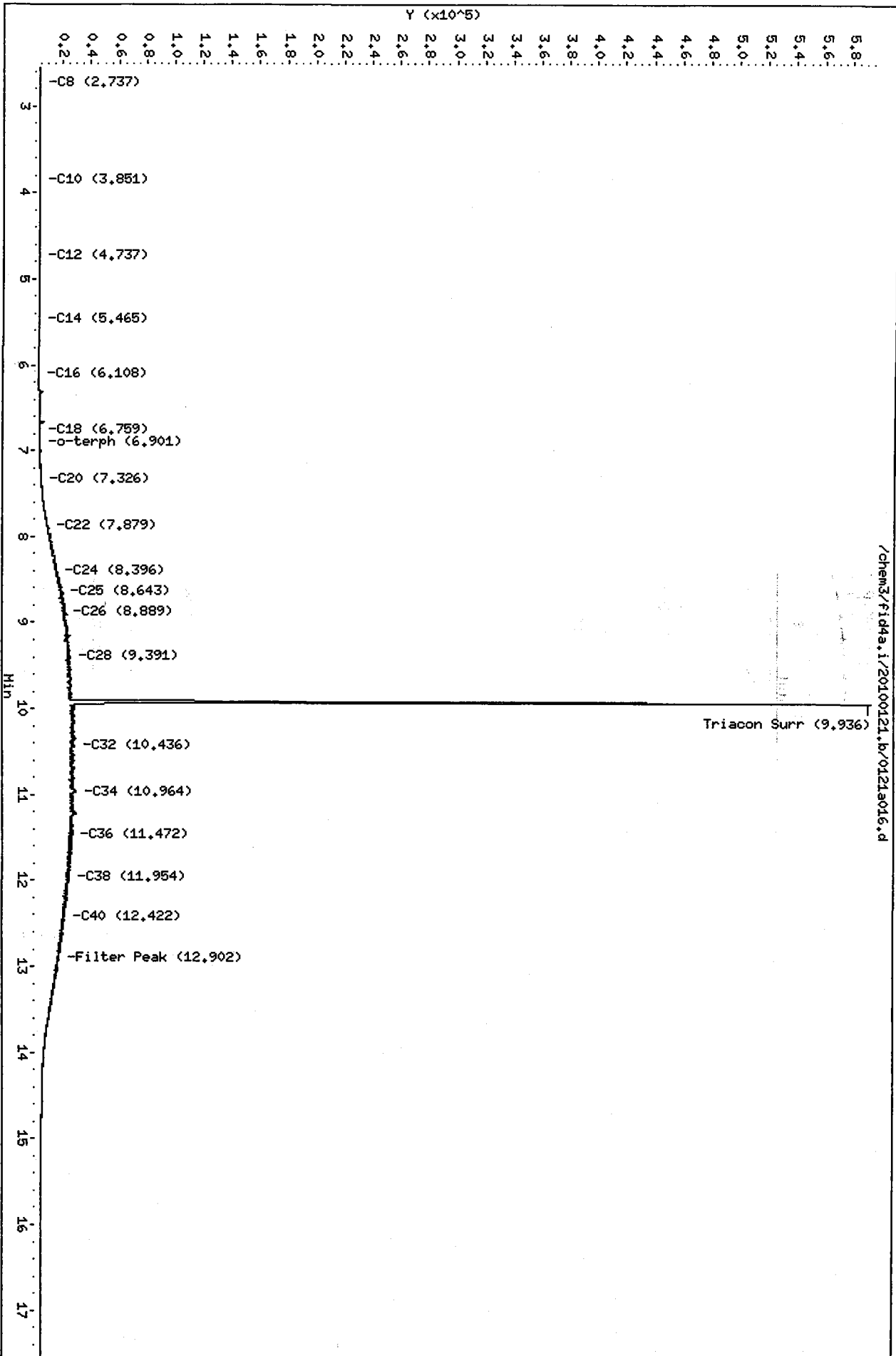
Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	617	0.0	0.1
Triacotane	639918	43.5	96.8

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a016.d
Date: 22-JAN-2010 02:21
Client ID: M01L 500
Sample Info: M01L 500
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



10705 : 4870

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a017.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL 1000
Client ID: MOIL 1000
Injection: 22-JAN-2010 02:45

Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.537	0.020	98	43	GAS (Tol-C12)	30330	3
C8	2.744	0.006	29	27	DIESEL (C12-C24)	1099002	85
C10	3.851	-0.004	406	287	M.OIL (C24-C38)	9679772	1041
C12	4.719	-0.010	219	294	AK-102 (C10-C25)	1432285	99
C14	5.462	0.001	151	186	AK-103 (C25-C36)	8087289	1172
C16	6.115	0.003	332	394	OR.DIES (C10-C28)	3449674	230
C18	6.722	-0.007	820	908	OR.MOIL (C28-C40)	8418341	1212
C20	7.318	-0.003	4258	5397			
C22	7.876	-0.002	13721	11362			
C24	8.405	0.006	28142	28651			
C25	8.654	0.004	36679	24988			
C26	8.886	-0.011	40542	59185			
C28	9.412	0.009	48478	27259			
C32	10.437	-0.007	56852	32478			
C34	10.957	-0.004	55831	77098	CREOSOT (C12-C22)	418309	149
Filter Peak	12.902	-0.003	23183	14904	HYDRAUL (C24-C38)	9679772	853
C36	11.460	-0.006	50603	33764			
C38	11.951	-0.005	45900	47020			
C40	12.433	0.008	36775	19173			
o-terph	6.897	0.003	1438	3230	JET-A (C10-C18)	65616	7
Triacon Surr	9.953	0.015	912202	1384778			

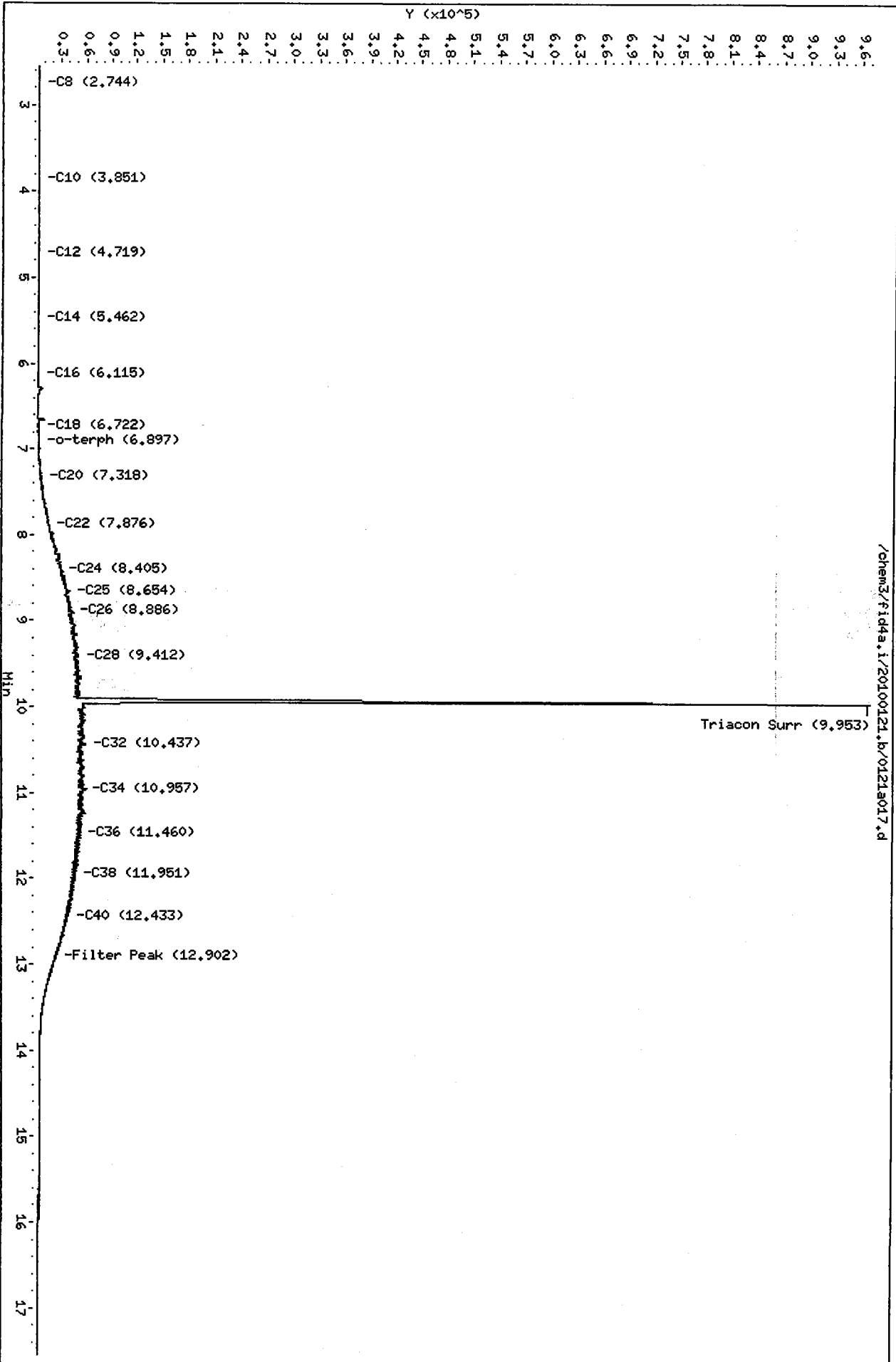
Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3230	0.2	0.5
Triacantane	1384778	94.2	209.4

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chems3/fid4a.i/20100121.b/0121a017.d
 Date: 22-JAN-2010 02:45
 Client ID: H01L 1000
 Sample Info: H01L 1000
 Column phase: RTX-1

Instrument: fid4a.1
 Operator: ar
 Column diameter: 2.00



00200 : 4070

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a018.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL 2500
Client ID: MOIL 2500
Injection: 22-JAN-2010 03:10
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.538	0.021	116	66	GAS (Tol-C12)	34254	3
C8	2.739	0.001	36	13	DIESEL (C12-C24)	2488959	192
C10	3.851	-0.004	434	452	M.OIL (C24-C38)	22724861	2443
C12	4.743	0.013	268	197	AK-102 (C10-C25)	3117620	215
C14	5.447	-0.014	233	294	AK-103 (C25-C36)	19284689	2794
C16	6.117	0.005	467	892	OR.DIES (C10-C28)	7724108	516
C18	6.738	0.009	1791	2848	OR.MOIL (C28-C40)	18802648	2707
C20	7.315	-0.005	9633	13558			
C22	7.874	-0.004	32239	27754			
C24	8.395	-0.004	65589	58543			
C25	8.656	0.005	85256	95936			
C26	8.882	-0.015	96185	110991			
C28	9.394	-0.009	113066	164198			
C32	10.452	0.009	134526	149821			
C34	10.966	0.005	135068	154012	CREOSOT (C12-C22)	934449	333
Filter Peak	12.895	-0.011	9025	8122	HYDRAUL (C24-C38)	22724861	2003
C36	11.477	0.012	121242	95922			
C38	11.951	-0.005	86585	142489			
C40	12.408	-0.018	35971	59868			
o-terph	6.892	-0.002	2599	3851	JET-A (C10-C18)	101803	11
Triacon Surr	9.987	0.049	1450229	3385985			

Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

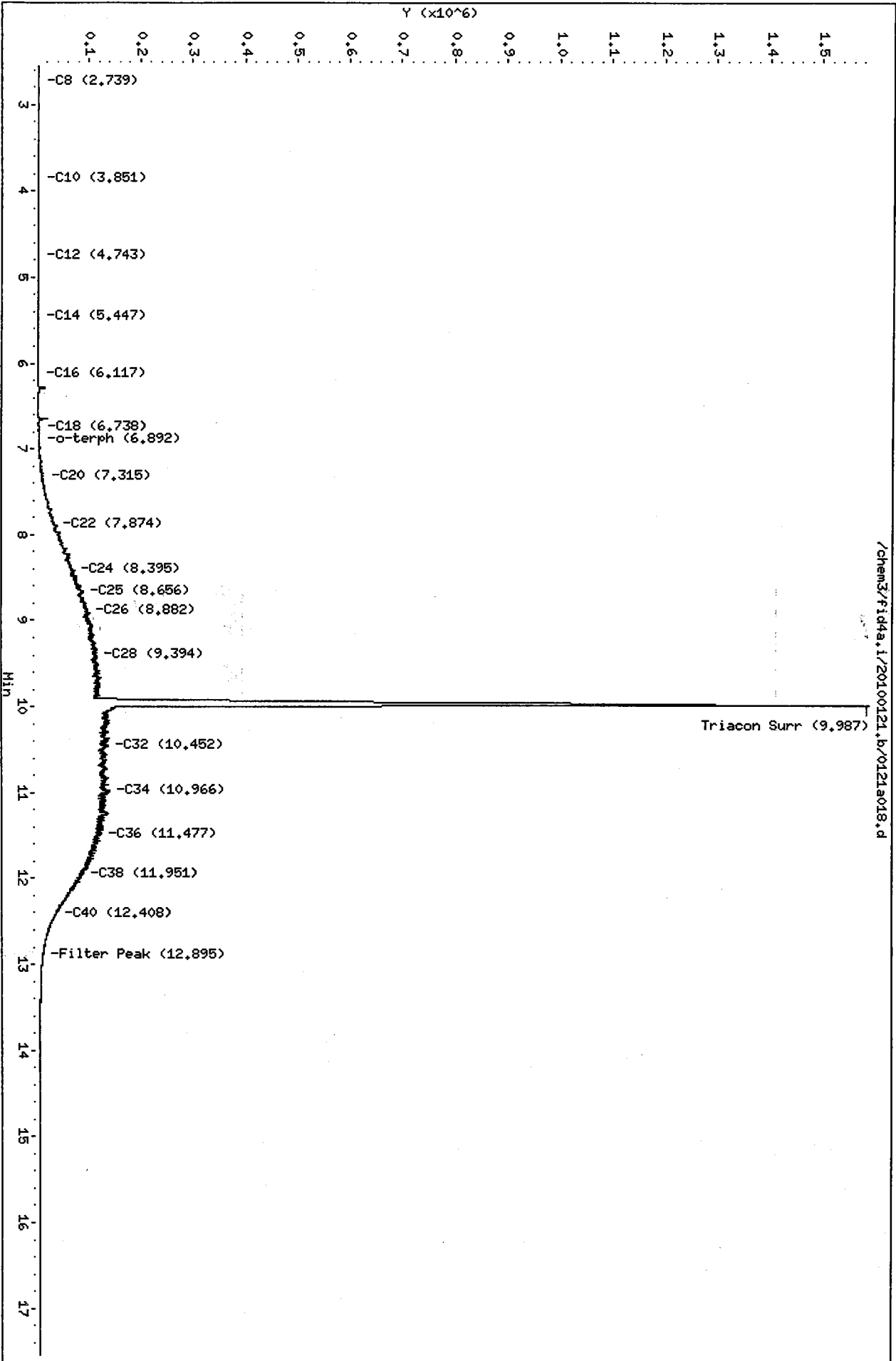
Surrogate	Area	Amount	%Rec
o-Terphenyl	3851	0.2	0.5
Triacontane	3385985	230.4	512.0

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a018.d
Date : 22-JAN-2010 03:10
Client ID: MOIL 2500
Sample Info: MOIL 2500

Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a019.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL 5000
Client ID: MOIL 5000
Injection: 22-JAN-2010 03:35
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.518	0.000	171	35	GAS (Tol-C12)	45819	4
C8	2.728	-0.011	82	102	DIESEL (C12-C24)	4775742	369
C10	3.854	-0.001	603	899	M.OIL (C24-C38)	41718277	4485
C12	4.723	-0.007	476	730	AK-102 (C10-C25)	6091127	420
C14	5.457	-0.004	453	1102	AK-103 (C25-C36)	38199104	5534
C16	6.111	-0.001	668	1114	OR.DIES (C10-C28)	16274629	1086
C18	6.730	0.001	3619	5510	OR.MOIL (C28-C40)	30853294	4443
C20	7.313	-0.007	20362	28698			
C22	7.877	-0.001	63109	62112			
C24	8.396	-0.004	131989	140713			
C25	8.649	-0.002	167729	128743			
C26	8.894	-0.003	203262	296102			
C28	9.403	0.000	233778	387106			
C32	10.435	-0.008	265605	357546			
C34	10.956	-0.004	240715	382061	CREOSOT (C12-C22)	1716171	612
Filter Peak	12.904	-0.002	7242	8678	HYDRAUL (C24-C38)	41718277	3678
C36	11.456	-0.009	151598	241001			
C38	11.961	0.005	45544	71052			
C40	12.434	0.008	13257	13927			
o-terph	6.889	-0.006	4692	10159	JET-A (C10-C18)	169160	19
Triacon Surr	10.031	0.093	1977972	6917579			

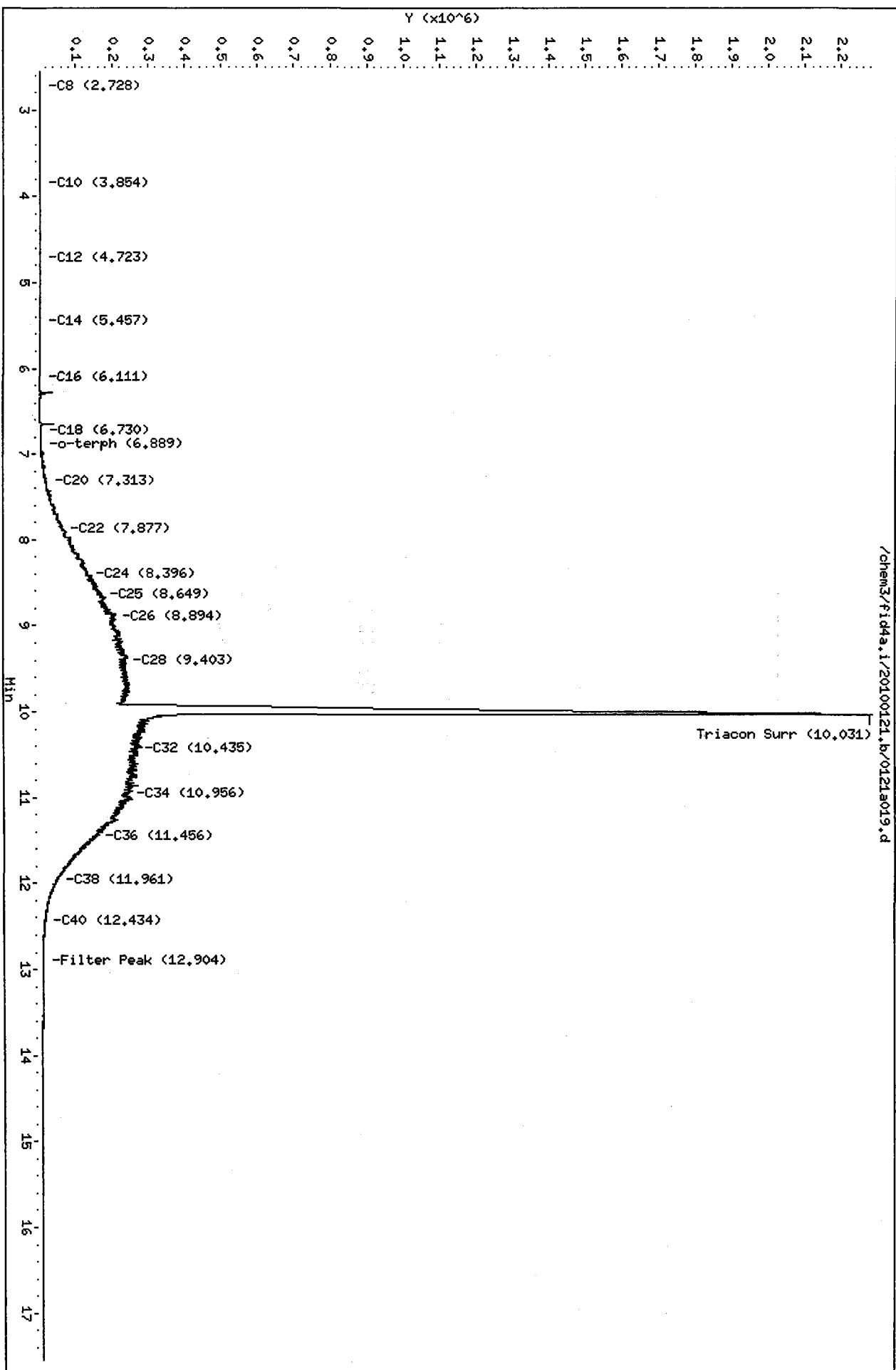
Range Times: NW Diesel (4.730 - 8.400) AK102 (3.85 - 8.65) Jet A (3.85 - 6.73)
NW M.Oil (8.40 - 11.96) AK103 (8.65 - 11.47) OR Diesel (3.85 - 9.40)

Surrogate	Area	Amount	%Rec
o-Terphenyl	10159	0.6	1.4
Triacotane	6917579	470.7	1046.1

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a019.d
Date: 22-JAN-2010 03:35
Client ID: MOIL 5000
Sample Info: MOIL 5000
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100121.b/0121a019.d

0134 : 00737

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100121.b/0121a020.d
Method: /chem3/fid4a.i/20100121.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 01/22/2010
Macro: 21-JAN-2010
Calibration Dates: Gas:10-DEC-2009 Diesel:22-DEC-2009 M.Oil:21-JAN-2009

ARI ID: MOIL ICV
Client ID:
Injection: 22-JAN-2010 04:01
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.519	0.001	111	54	GAS (Tol-C12)	31024	3
C8	2.740	0.002	48	52	DIESEL (C12-C24)	499371	39
C10	3.848	-0.007	410	980	M.OIL (C24-C38)	4665320	502
C12	4.735	0.005	171	222	AK-102 (C10-C25)	640465	44
C14	5.464	0.003	123	93	AK-103 (C25-C36)	3789711	549
C16	6.107	-0.006	319	239	OR.DIES (C10-C28)	1490007	99
C18	6.728	-0.001	723	999	OR.MOIL (C28-C40)	4362188	628
C20	7.326	0.005	2047	3667			
C22	7.881	0.003	5913	4299			
C24	8.392	-0.007	11527	15892			
C25	8.658	0.007	14708	10042			
C26	8.897	0.000	16885	11518			
C28	9.412	0.009	20397	34972			
C32	10.452	0.009	24454	20524			
C34	10.960	-0.001	29234	18762	CREOSOT (C12-C22)	216550	77
Filter Peak	12.906	0.000	19221	10884	HYDRAUL (C24-C38)	4665320	411
C36	11.474	0.008	28754	16830			
C38	11.957	0.001	27199	17560			
C40	12.423	-0.003	24197	11859			
o-terph	6.909	0.014	1182	2582	JET-A (C10-C18)	58148	6
Triacon Surr	9.934	-0.004	602155	670271			

Range Times: NW Diesel(4.730 - 8.400) AK102(3.85 - 8.65) Jet A(3.85 - 6.73)
NW M.Oil(8.40 - 11.96) AK103(8.65 - 11.47) OR Diesel(3.85 - 9.40)

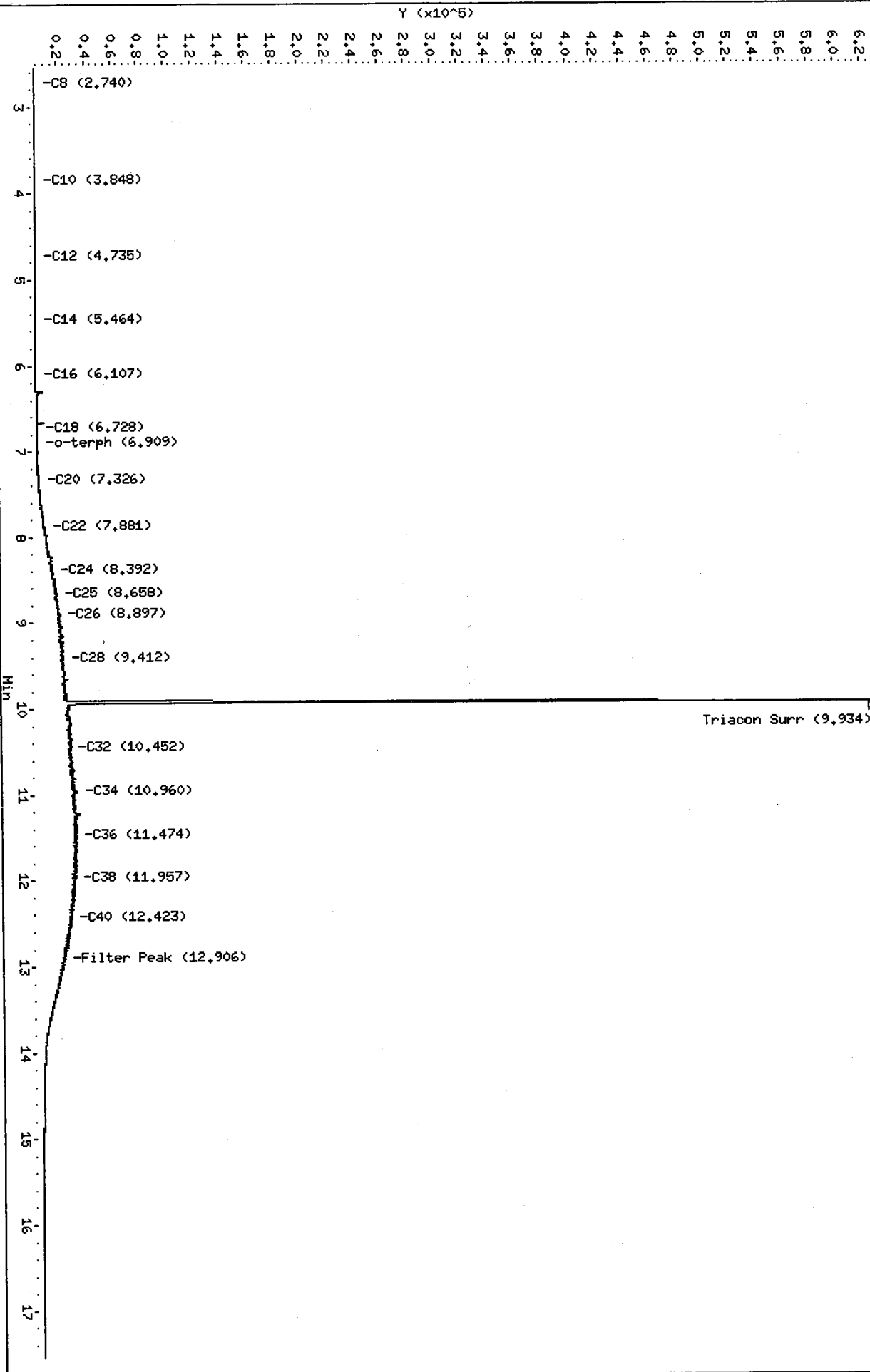
Surrogate	Area	Amount	%Rec
o-Terphenyl	2582	0.2	0.4
Triacotane	670271	45.6	101.4

Analyte	RF	Curve Date
o-Terph Surr	15852.0	22-DEC-2009
Triacon Surr	14695.1	22-JAN-2010
Gas	11843.7	10-DEC-2009
Diesel	12946.9	22-DEC-2009
Motor Oil	9302.5	21-JAN-2009
AK102	14509.2	22-DEC-2009
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	14983.0	
OR M.Oil	6945.0	
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100121.b/0121a020.d
Date: 22-JAN-2010 04:01
Client ID:
Sample Info: MOIL ICV
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00

/chem3/fid4a.i/20100121.b/0121a020.d



Ms 3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a002.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 03/03/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: RT
Client ID: RT
Injection: 26-FEB-2010 13:25
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.213	0.000	292990	260556	GAS (Tol-C12)	896237	113
C8	2.531	0.000	141994	182256	DIESEL (C12-C24)	1358337	119
C10	3.805	0.000	169667	189798	M.OIL (C24-C38)	1793703	193
C12	4.713	0.000	134244	195446	AK-102 (C10-C25)	1777830	141
C14	5.448	0.000	209167	194605	AK-103 (C25-C36)	1603490	232
C16	6.095	0.000	288493	208863	OR.DIES (C10-C28)	2583192	201
C18	6.705	0.000	290855	214740	OR.MOIL (C28-C40)	1089431	157
C20	7.296	0.000	301831	218668			
C22	7.850	0.000	326815	224265			
C24	8.367	0.000	358136	227980			
C25	8.616	0.000	443888	320598			
C26	8.861	0.000	301103	235276			
C28	9.361	0.000	290925	236620			
C32	10.393	0.000	264909	248806			
C34	10.908	0.000	249457	251589	CREOSOT (C12-C22)	1122295	400
Filter Peak	12.885	0.000	2072	3048	HYDRAUL (C24-C38)	1793703	158
C36	11.409	0.000	221060	233546			
C38	11.894	0.000	147223	166077			
C40	12.368	0.000	41605	79992			
o-terph	6.871	0.000	891310	774143	JET-A (C10-C18)	1078972	119
Triacon Surr	9.892	0.000	656502	828545			

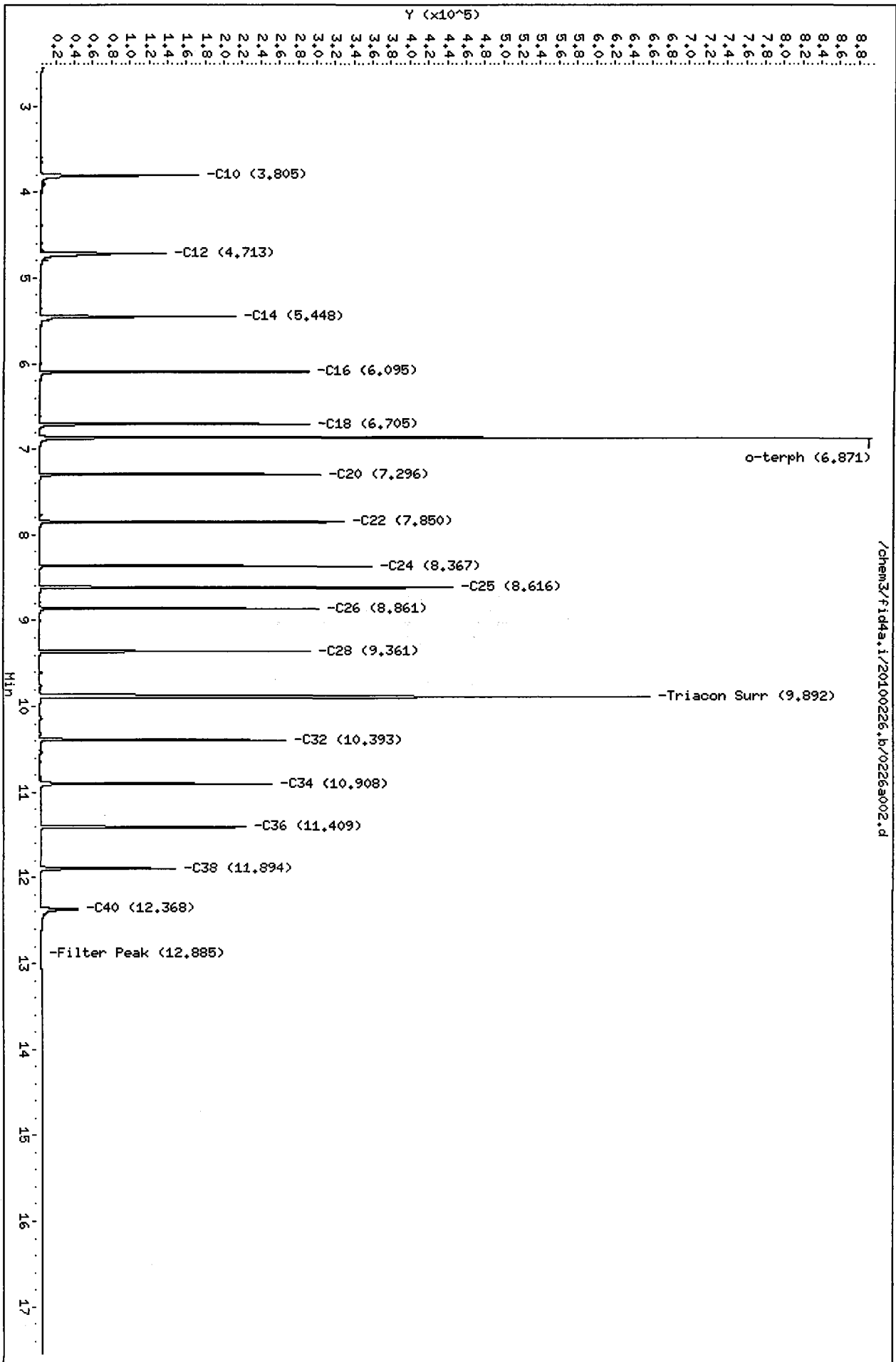
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Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)
=====

Surrogate	Area	Amount	%Rec
o-Terphenyl	774143	56.1	124.6
Triacotane	828545	56.4	125.3

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a002.d
Date: 26-FEB-2010 13:25
Client ID: RT
Sample Info: RT
Column Phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100226.b/0226a002.d

Analytical Resources Inc.
TPH Quantitation Report

MS 3/3/10

Data file: /chem3/fid4a.i/20100226.b/0226a003.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 03/03/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: IB
Client ID: IB
Injection: 26-FEB-2010 13:50
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.197	-0.017	394	873	GAS (Tol-C12)	41122	5
C8	2.541	0.010	103	91	DIESEL (C12-C24)	65138	6
C10	3.811	0.006	464	477	M.OIL (C24-C38)	168623	18
C12	4.720	0.007	308	344	AK-102 (C10-C25)	90235	7
C14	5.449	0.000	183	211	AK-103 (C25-C36)	133508	19
C16	6.101	0.005	241	155	OR.DIES (C10-C28)	113342	9
C18	6.694	-0.011	294	429	OR.MOIL (C28-C40)	178450	26
C20	7.279	-0.016	705	248			
C22	7.844	-0.006	421	392			
C24	8.371	0.004	455	177			
C25	8.610	-0.005	526	919			
C26	8.865	0.004	506	363			
C28	9.366	0.004	769	1097			
C32	10.397	0.004	925	969			
C34	10.896	-0.012	958	1626	CREOSOT (C12-C22)	54286	19
Filter Peak	12.878	-0.007	2033	1287	HYDRAUL (C24-C38)	168623	15
C36	11.406	-0.003	986	1509			
C38	11.893	-0.001	1201	973			
C40	12.375	0.007	1543	1463			
o-terph	6.872	0.001	916396	882905	JET-A (C10-C18)	46466	5
Triacon Surr	9.889	-0.002	596687	740060			

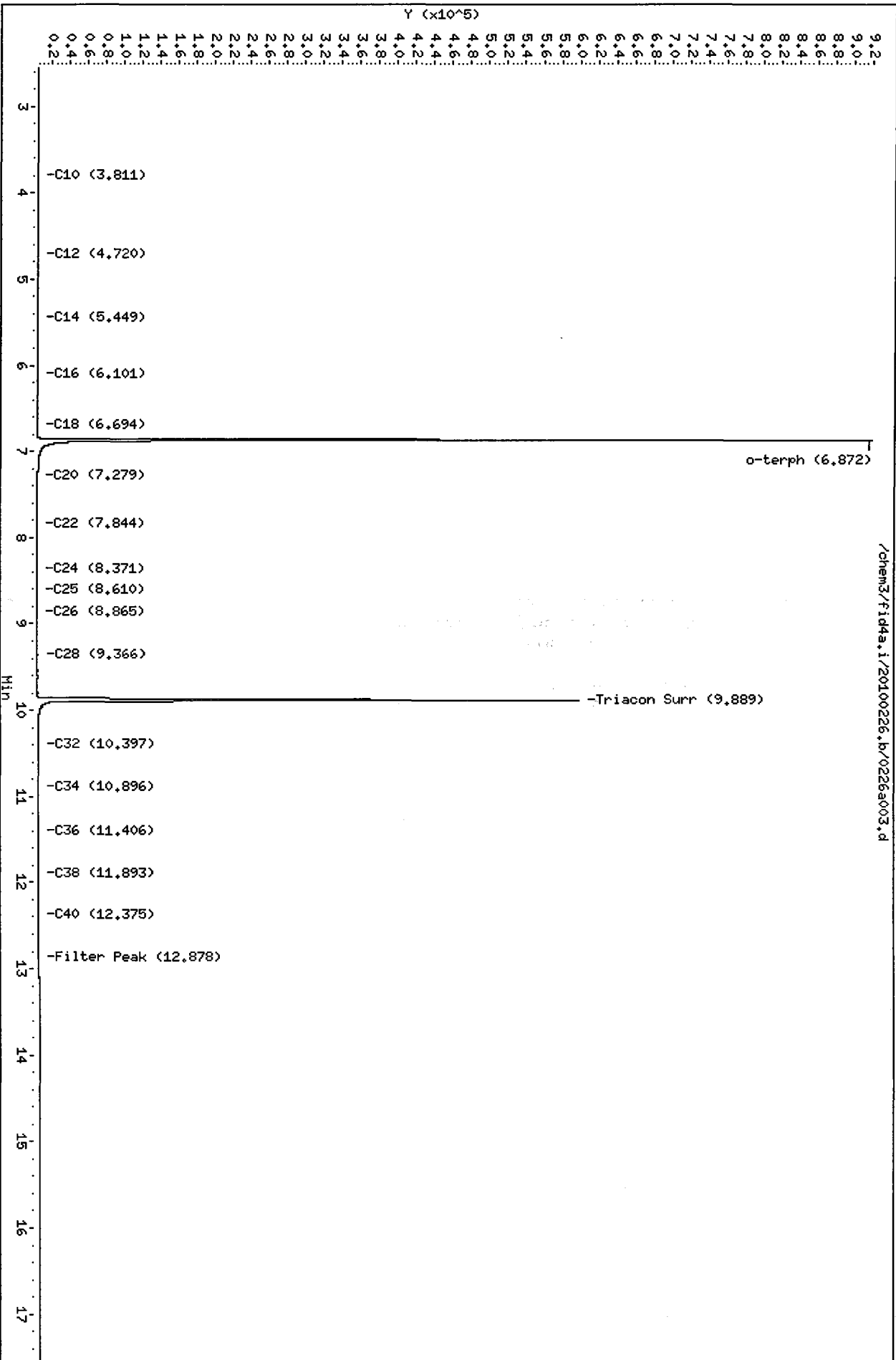
Range Times: NW Diesel (4.713 - 8.367) AK102 (3.81 - 8.62) Jet A (3.81 - 6.71)
NW M.Oil (8.37 - 11.89) AK103 (8.62 - 11.41) OR Diesel (3.81 - 9.36)

Surrogate	Area	Amount	%Rec
o-Terphenyl	882905	63.9	142.1
Triacontane	740060	50.4	111.9

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a003.d
Date : 26-FEB-2010 13:50
Client ID: IB
Sample Info: IB
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



0131 : 00743

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 22-JAN-2010 Project: LORA LAKE APTS.
 CCal Date: 26-FEB-2010 SDG No.: QL34
 Analysis Time: 14:16 Lab ID: DIESEL#1
 Instrument: FID4A.I Lab File Name: 0226a004.d

Diesel Range	Area*	CalcAmt	NomAmt	% D
WADies (C12-C24)	2813410	247.5	250	-1.0
AK102 (C10-C25)	3127591	247.6	250	-1.0
Terphenyl	601645	43.6	45	-3.2

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

M-3/31/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a004.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 03/03/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL#1
Client ID: LORA LAKE APTS.
Injection: 26-FEB-2010 14:16
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.229	0.016	187	216	GAS (Tol-C12)	388128	49
C8	2.520	-0.010	371	431	DIESEL (C12-C24)	2813410	247
C10	3.811	0.006	2993	2155	M.OIL (C24-C38)	157048	17
C12	4.721	0.008	22661	27026	AK-102 (C10-C25)	3127591	248
C14	5.445	-0.004	53879	44844	AK-103 (C25-C36)	114416	17
C16	6.091	-0.004	108514	75886	OR.DIES (C10-C28)	3171668	247
C18	6.705	0.000	92868	74411	OR.MOIL (C28-C40)	126553	18
C20	7.295	-0.001	50141	49001			
C22	7.858	0.008	14456	31526			
C24	8.352	-0.015	2408	3930			
C25	8.622	0.007	1505	1678			
C26	8.859	-0.002	1111	1612			
C28	9.349	-0.012	671	944			
C32	10.391	-0.003	644	889			
C34	10.901	-0.007	693	312	CREOSOT (C12-C22)	2719171	970
Filter Peak	12.882	-0.003	1806	1252	HYDRAUL (C24-C38)	157048	14
C36	11.406	-0.003	801	807			
C38	11.890	-0.004	1014	683			
C40	12.372	0.004	1344	904			
o-terph	6.870	-0.001	774617	601645	JET-A (C10-C18)	2263282	249
Triacon Surr	9.897	0.006	564	373			

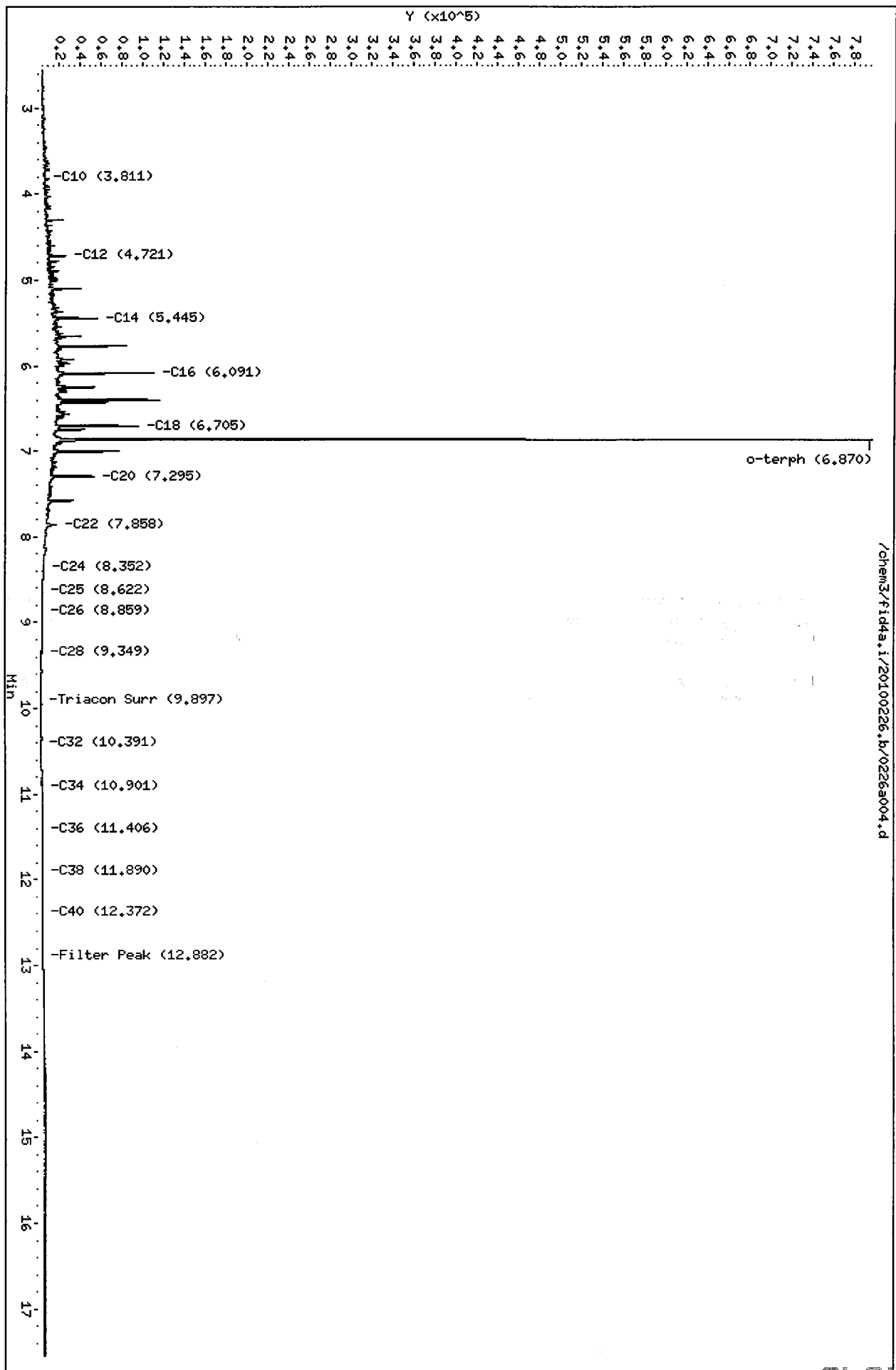
Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

Surrogate	Area	Amount	%Rec
o-Terphenyl	601645	43.6	96.8
Triacotane	373	0.0	0.1

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chems3/fid4a.i/20100226.b/0226a004.d
Date : 26-FEB-2010 14:16
Client ID: LORA LAKE APTS.
Sample Info: DIESEL#1
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chems3/fid4a.i/20100226.b/0226a004.d

0134 : 00746

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-JAN-2010 Project: LORA LAKE APTS.
 CCal Date: 26-FEB-2010 SDG No.: QL34
 Analysis Time: 14:42 Lab ID: MOIL#1
 Instrument: FID4A.I Lab File Name: 0226a005.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	4643667	499.2	500	-0.2
AK103 (C25-C36)	3978652	576.4	500	15.3
n-Triacontane	659867	44.9	45	-0.2

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

M37310

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a005.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 03/03/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: MOIL#1
Client ID: LORA LAKE APTS.
Injection: 26-FEB-2010 14:42
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.197	-0.016	541	1108	GAS (Tol-C12)	42012	5
C8	2.518	-0.013	101	134	DIESEL (C12-C24)	557349	49
C10	3.802	-0.003	477	477	M.OIL (C24-C38)	4643667	499
C12	4.707	-0.007	316	163	AK-102 (C10-C25)	717163	57
C14	5.457	0.009	192	238	AK-103 (C25-C36)	3978652	576
C16	6.085	-0.010	211	263	OR.DIES (C10-C28)	1715439	134
C18	6.745	0.040	409	348	OR.MOIL (C28-C40)	3851764	555
C20	7.296	0.000	1850	3097			
C22	7.840	-0.010	6564	5695			
C24	8.365	-0.003	14044	17003			
C25	8.615	-0.001	17571	9042			
C26	8.867	0.006	21147	6850			
C28	9.363	0.002	23191	16954			
C32	10.395	0.002	26384	11726			
C34	10.910	0.002	27487	38121	CREOSOT (C12-C22)	218370	78
Filter Peak	12.881	-0.004	5416	6109	HYDRAUL (C24-C38)	4643667	409
C36	11.416	0.007	22602	11478			
C38	11.890	-0.004	16776	23520			
C40	12.364	-0.004	10222	10842			
o-terph	6.862	-0.009	515	815	JET-A (C10-C18)	54019	6
Triacon Surr	9.890	-0.001	578270	659867			

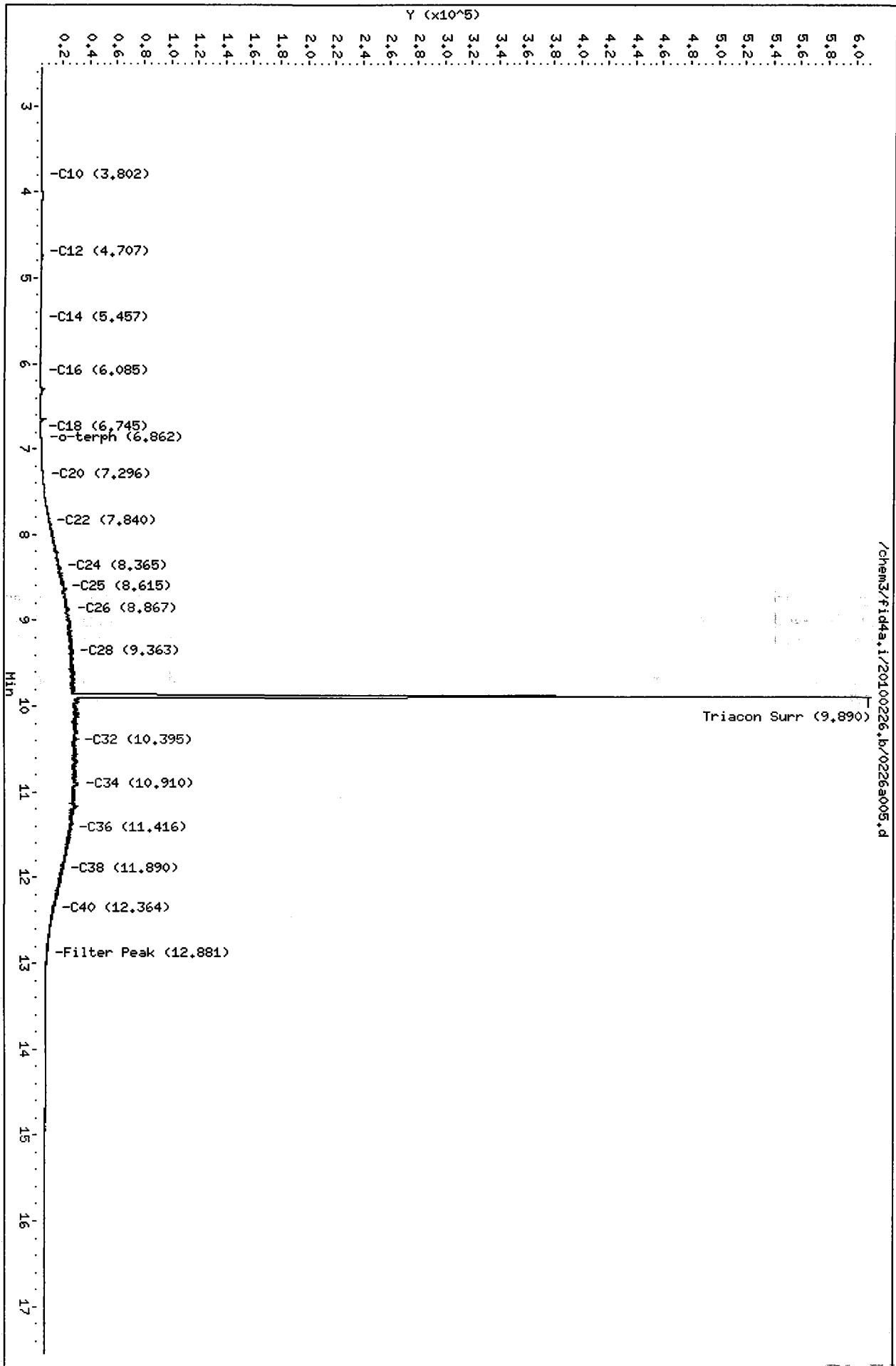
Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
 NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

Surrogate	Area	Amount	%Rec
o-Terphenyl	815	0.1	0.1
Triacontane	659867	44.9	99.8

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a005.d
Date : 26-FEB-2010 14:42
Client ID: LORA LAKE APTS.
Sample Info: M01L#1
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 22-JAN-2010 Project: LORA LAKE APTS.
 CCal Date: 26-FEB-2010 SDG No.: QL34
 Analysis Time: 20:32 Lab ID: DIESEL#2
 Instrument: FID4A.I Lab File Name: 0226a015.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	2818635	247.9	250	-0.8
AK102 (C10-C25)	3131733	247.9	250	-0.8
Terphenyl	613741	44.5	45	-1.2

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

MS 373710

Data file: /chem3/fid4a.i/20100226.b/0226a015.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 03/03/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: DIESEL#2
Client ID: LORA LAKE APTS.
Injection: 26-FEB-2010 20:32

Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.226	0.013	199	354	GAS (Tol-C12)	392670	50
C8	2.521	-0.010	287	331	DIESEL (C12-C24)	2818635	248
C10	3.812	0.007	3015	2191	M.OIL (C24-C38)	144966	16
C12	4.706	-0.008	9122	9057	AK-102 (C10-C25)	3131733	248
C14	5.446	-0.002	53425	44263	AK-103 (C25-C36)	109643	16
C16	6.093	-0.003	105443	76243	OR.DIES (C10-C28)	3176667	247
C18	6.706	0.001	91148	77818	OR.MOIL (C28-C40)	117157	17
C20	7.295	-0.001	50816	48759			
C22	7.857	0.006	15477	33807			
C24	8.379	0.012	2185	2650			
C25	8.625	0.010	1526	2253			
C26	8.857	-0.005	1075	1705			
C28	9.354	-0.007	617	1073			
C32	10.389	-0.005	543	654			
C34	10.905	-0.003	602	343	CREOSOT (C12-C22)	2717910	970
Filter Peak	12.882	-0.003	1657	1050	HYDRAUL (C24-C38)	144966	13
C36	11.412	0.003	734	683			
C38	11.901	0.007	968	591			
C40	12.369	0.000	1209	667			
o-terph	6.870	0.000	771893	613741	JET-A (C10-C18)	2245702	247
Triacon Surr	9.898	0.006	505	188			

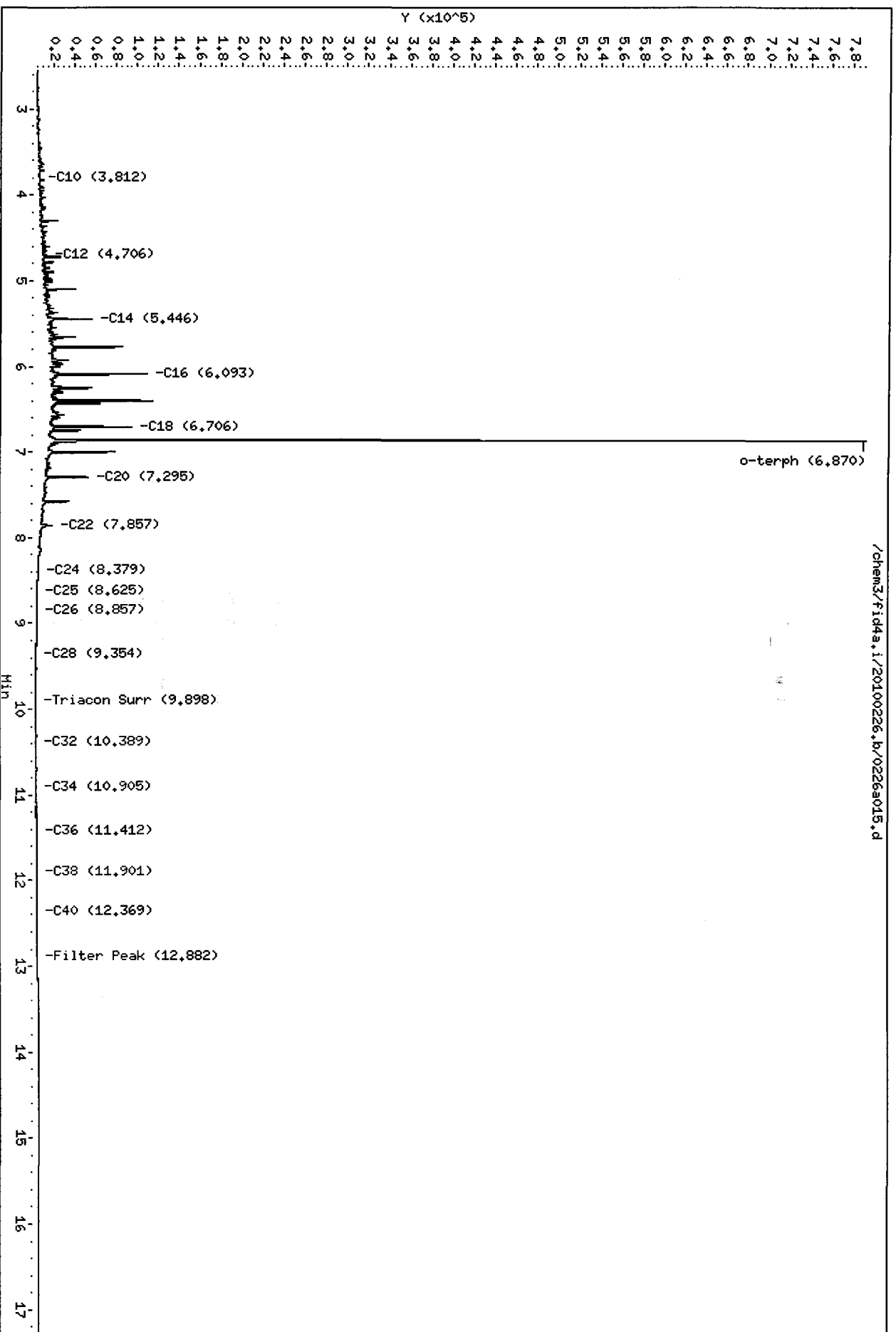
Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

Surrogate	Area	Amount	%Rec
o-Terphenyl	613741	44.5	98.8
Triacotane	188	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a015.d
Date: 26-FEB-2010 20:32
Client ID: LORA LAKE APTS.
Sample Info: DIESEL#2
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



0226a015.d

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
ICal Date: 21-JAN-2010 Project: LORA LAKE APTS.
CCal Date: 26-FEB-2010 SDG No.: QL34
Analysis Time: 20:58 Lab ID: MOIL#2
Instrument: FID4A.I Lab File Name: 0226a016.d

M.oil Range	Area*	CalcAmt	NomAmt	% D
WAMoil (C24-C38)	4703256	505.6	500	1.1
AK103 (C25-C36)	4046395	586.3	500	17.3
n-Triacontane	681495	46.4	45	3.1

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

M3/3/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a016.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 03/03/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: MOIL#2
Client ID: LORA LAKE APTS.
Injection: 26-FEB-2010 20:58
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.208	-0.005	558	1371	GAS (Tol-C12)	42663	5
C8	2.538	0.008	99	143	DIESEL (C12-C24)	550485	48
C10	3.808	0.003	476	432	M.OIL (C24-C38)	4703256	506
C12	4.710	-0.004	272	176	AK-102 (C10-C25)	711594	56
C14	5.460	0.011	130	79	AK-103 (C25-C36)	4046395	586
C16	6.098	0.003	138	133	OR.DIES (C10-C28)	1723661	134
C18	6.722	0.017	327	172	OR.MOIL (C28-C40)	3885953	560
C20	7.299	0.004	1923	2758			
C22	7.853	0.003	6994	5027			
C24	8.360	-0.007	14254	9700			
C25	8.608	-0.007	18434	22192			
C26	8.865	0.004	20838	9283			
C28	9.371	0.010	24941	19255			
C32	10.387	-0.006	27963	19350			
C34	10.907	-0.001	29147	34888	CREOSOT (C12-C22)	208556	74
Filter Peak	12.885	0.000	4752	5211	HYDRAUL (C24-C38)	4703256	415
C36	11.414	0.004	22847	13802			
C38	11.894	0.000	16594	20703			
C40	12.379	0.011	9433	12581			
o-terph	6.861	-0.010	457	752	JET-A (C10-C18)	48229	5
Triacon Surr	9.892	0.000	568875	681495			

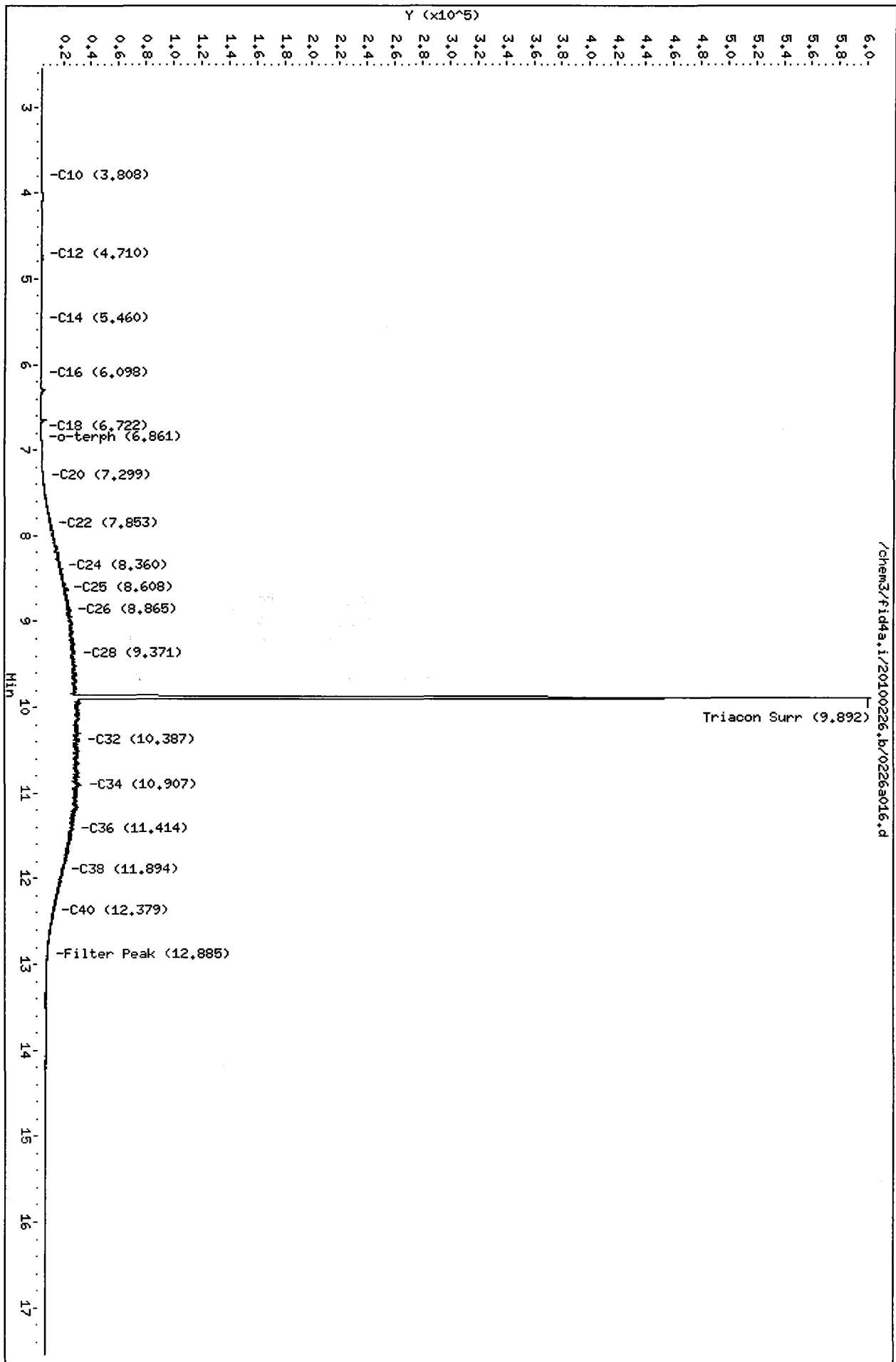
Range Times: NW Diesel (4.713 - 8.367) AK102 (3.81 - 8.62) Jet A (3.81 - 6.71)
 NW M.Oil (8.37 - 11.89) AK103 (8.62 - 11.41) OR Diesel (3.81 - 9.36)

Surrogate	Area	Amount	%Rec
o-Terphenyl	752	0.1	0.1
Triacontane	681495	46.4	103.1

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a016.d
Date : 26-FEB-2010 20:58
Client ID: LORA LAKE APTS.
Sample Info: M01L#2
Column Phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



TPHD Analysis
QC Raw Data

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.
TPH Quantitation Report

M 2/27/10

Data file: /chem3/fid4a.i/20100226.b/0226a014.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QL34MBW1
Client ID: QL34MBW1
Injection: 26-FEB-2010 20:07

Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.216	0.003	288	343	GAS (Tol-C12)	44916	6
C8	2.535	0.004	91	127	DIESEL (C12-C24)	87228	8
C10	3.799	-0.006	600	1119	M.OIL (C24-C38)	241168	26
C12	4.724	0.011	264	267	AK-102 (C10-C25)	118293	9
C14	5.456	0.008	200	260	AK-103 (C25-C36)	194871	28
C16	6.095	0.000	345	505	OR.DIES (C10-C28)	152695	12
C18	6.699	-0.006	690	747	OR.MOIL (C28-C40)	232994	34
C20	7.273	-0.023	1033	4143			
C22	7.853	0.003	564	296			
C24	8.365	-0.003	555	670			
C25	8.612	-0.004	698	1159			
C26	8.850	-0.011	618	939			
C28	9.363	0.002	3821	3266			
C32	10.383	-0.010	829	902			
C34	10.916	0.008	2526	3516	CREOSOT (C12-C22)	71165	25
Filter Peak	12.893	0.008	1853	1796	HYDRAUL (C24-C38)	241168	21
C36	-----						
C38	11.894	0.000	1271	655			
C40	12.359	-0.010	1413	920			
o-terph	6.866	-0.005	433123	450301	JET-A (C10-C18)	61458	7
Triacon Surr	9.882	-0.009	466924	501843			

Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

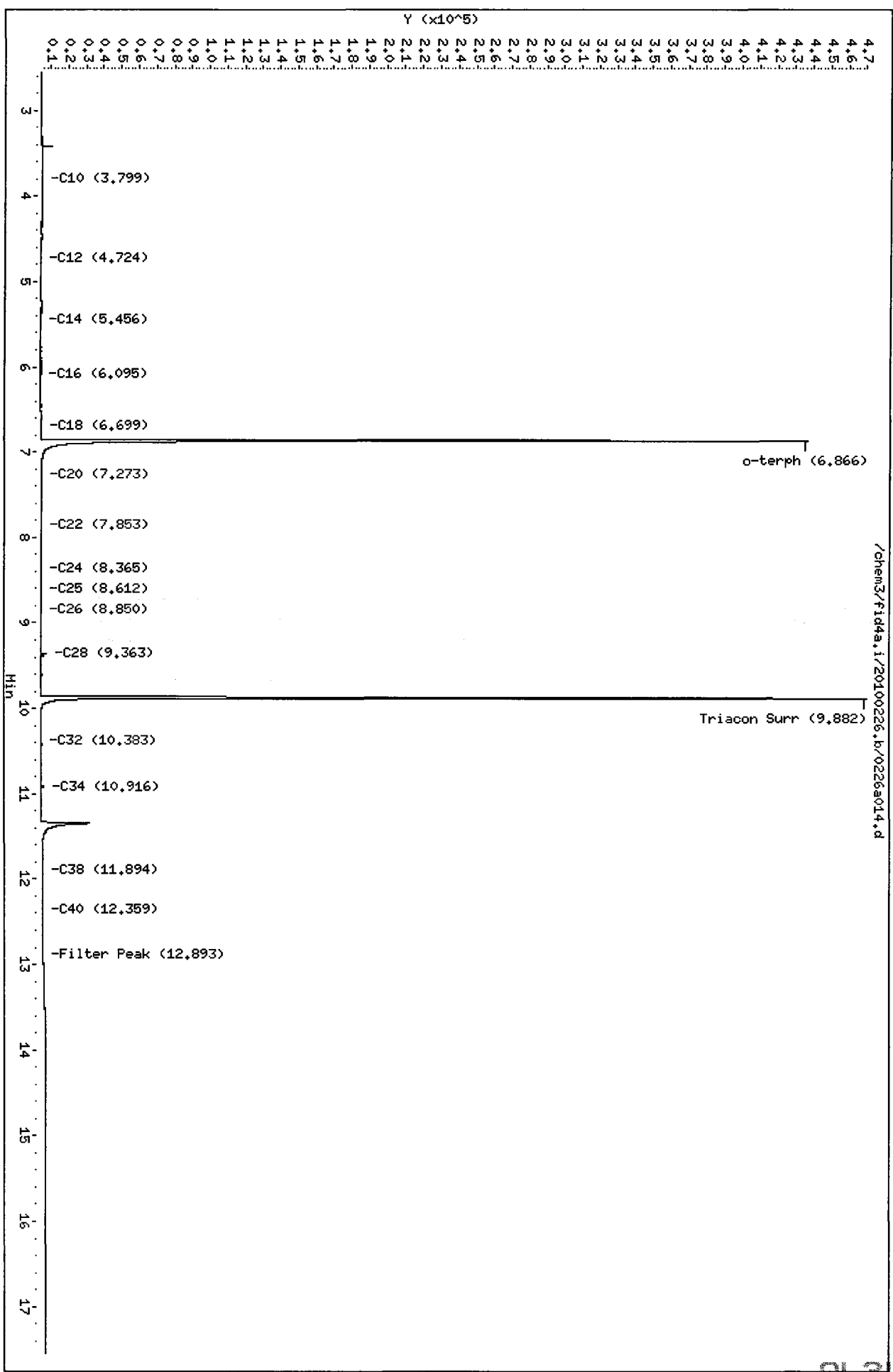
Surrogate	Area	Amount	%Rec
o-Terphenyl	450301	32.6	72.5
Triacontane	501843	34.2	75.9



Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a014.d
Date: 26-FEB-2010 20:07
Client ID: QL34MBM1
Sample Info: QL34MBM1
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



159750
17070

ms 2/29/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a008.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QL34AMS
Client ID: CB31A022310GRAB MS
Injection: 26-FEB-2010 17:34
Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.188	-0.025	285	467	GAS (Tol-C12)	1303328	165
C8	2.542	0.011	1525	2384	DIESEL (C12-C24)	13795664	1214
C10	3.807	0.002	37613	25427	M.OIL (C24-C38)	9108687	979
C12	4.719	0.006	29580	26125	AK-102 (C10-C25)	15395612	1219
C14	5.439	-0.009	249020	187752	AK-103 (C25-C36)	7988435	1157
C16	6.092	-0.003	449847	346280	OR.DIES (C10-C28)	18529956	1443
C18	6.709	0.004	397033	389846	OR.MOIL (C28-C40)	5660272	815
C20	7.293	-0.002	281952	252834			
C22	7.845	-0.005	158384	173567			
C24	8.365	-0.003	99232	106914			
C25	8.610	-0.006	88048	142417			
C26	8.860	-0.001	82256	95326			
C28	9.361	-0.001	82245	146027			
C32	10.392	-0.002	69028	102522			
C34	10.906	-0.002	53131	123005	CREOSOT (C12-C22)	12182468	4347
Filter Peak	12.877	-0.008	4536	6164	HYDRAUL (C24-C38)	9108687	803
C36	11.407	-0.003	36716	55580			
C38	11.892	-0.002	21427	40201			
C40	12.359	-0.010	10163	15897			
o-terph	6.870	-0.001	633611	508064	JET-A (C10-C18)	9074957	997
Triacon Surr	9.891	0.000	519147	556065			

Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

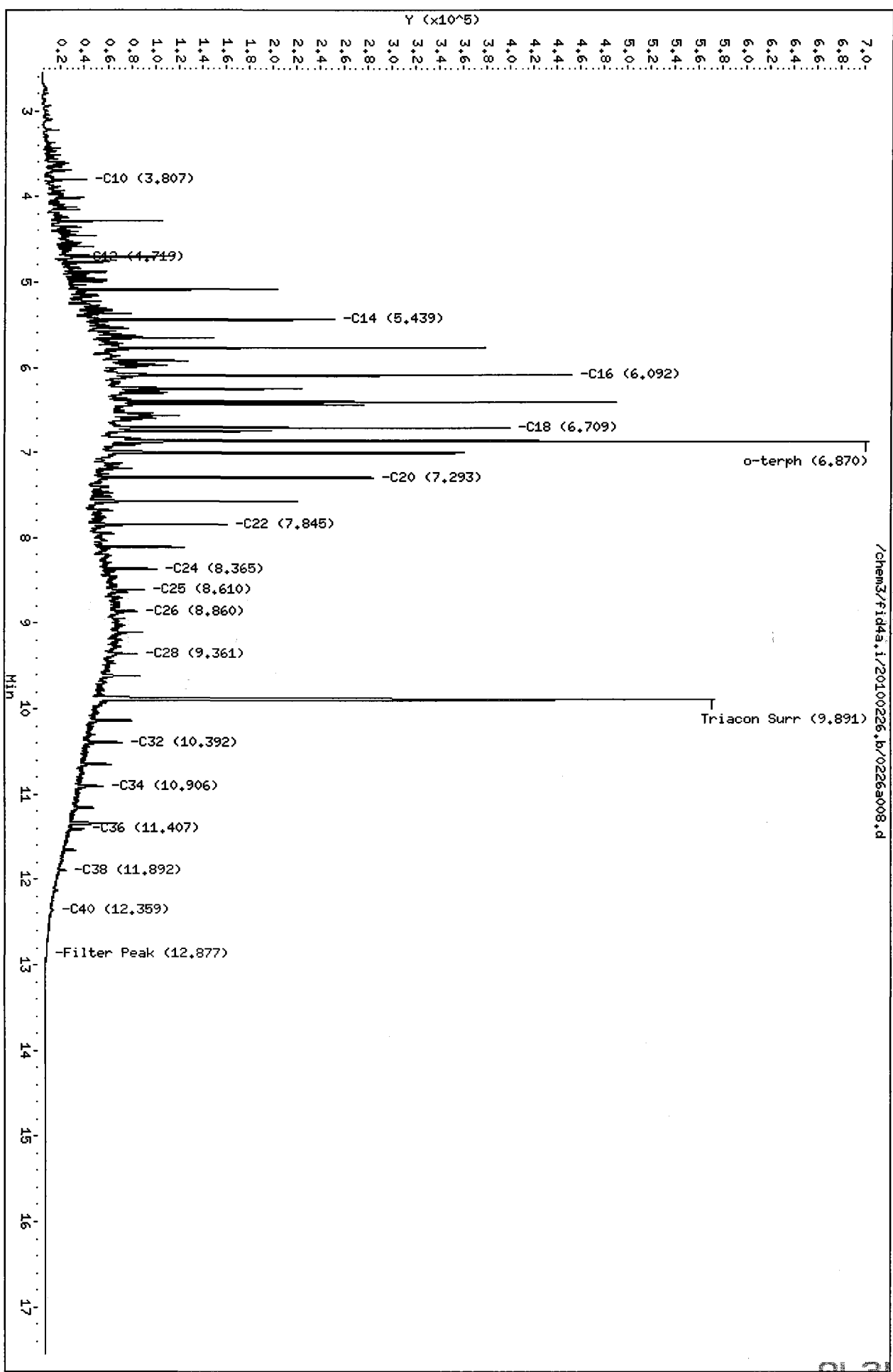
Surrogate	Area	Amount	%Rec
o-Terphenyl	508064	36.8	81.8
Triacontane	556065	37.8	84.1



Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a008.d
Date: 26-FEB-2010 17:34
Client ID: CB31A022310CRAB HS
Sample Info: QL34AHS
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100226.b/0226a008.d

Mr 2/27/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a009.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i
Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010
Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

ARI ID: QL34AMSD
Client ID: CB31A022310GRAB MSD
Injection: 26-FEB-2010 17:59

Dilution Factor: 1

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.190	-0.023	341	659	GAS (Tol-C12)	1384935	175
C8	2.546	0.015	1832	2680	DIESEL (C12-C24)	13885303	1221
C10	3.808	0.003	41605	27930	M.OIL (C24-C38)	9280048	998
C12	4.720	0.007	31396	27199	AK-102 (C10-C25)	15412973	1220
C14	5.441	-0.007	253686	192702	AK-103 (C25-C36)	8264237	1197
C16	6.095	0.000	458384	331150	OR.DIES (C10-C28)	18714877	1457
C18	6.711	0.006	397431	388195	OR.MOIL (C28-C40)	5806842	836
C20	7.294	-0.002	282930	311776			
C22	7.847	-0.003	160350	175358			
C24	8.365	-0.003	96090	113326			
C25	8.613	-0.003	86973	124802			
C26	8.857	-0.004	83564	104442			
C28	9.360	-0.002	84512	106357			
C32	10.390	-0.004	67804	160493			
C34	10.905	-0.003	54883	92464	CREOSOT (C12-C22)	12207045	4355
Filter Peak	12.894	0.009	4328	5669	HYDRAUL (C24-C38)	9280048	818
C36	11.408	-0.002	38262	82720			
C38	11.895	0.001	21386	42091			
C40	12.360	-0.009	10416	23824			
o-terph	6.872	0.001	645273	505146	JET-A (C10-C18)	9170750	1008
Triacon Surr	9.892	0.000	495498	561919			

Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

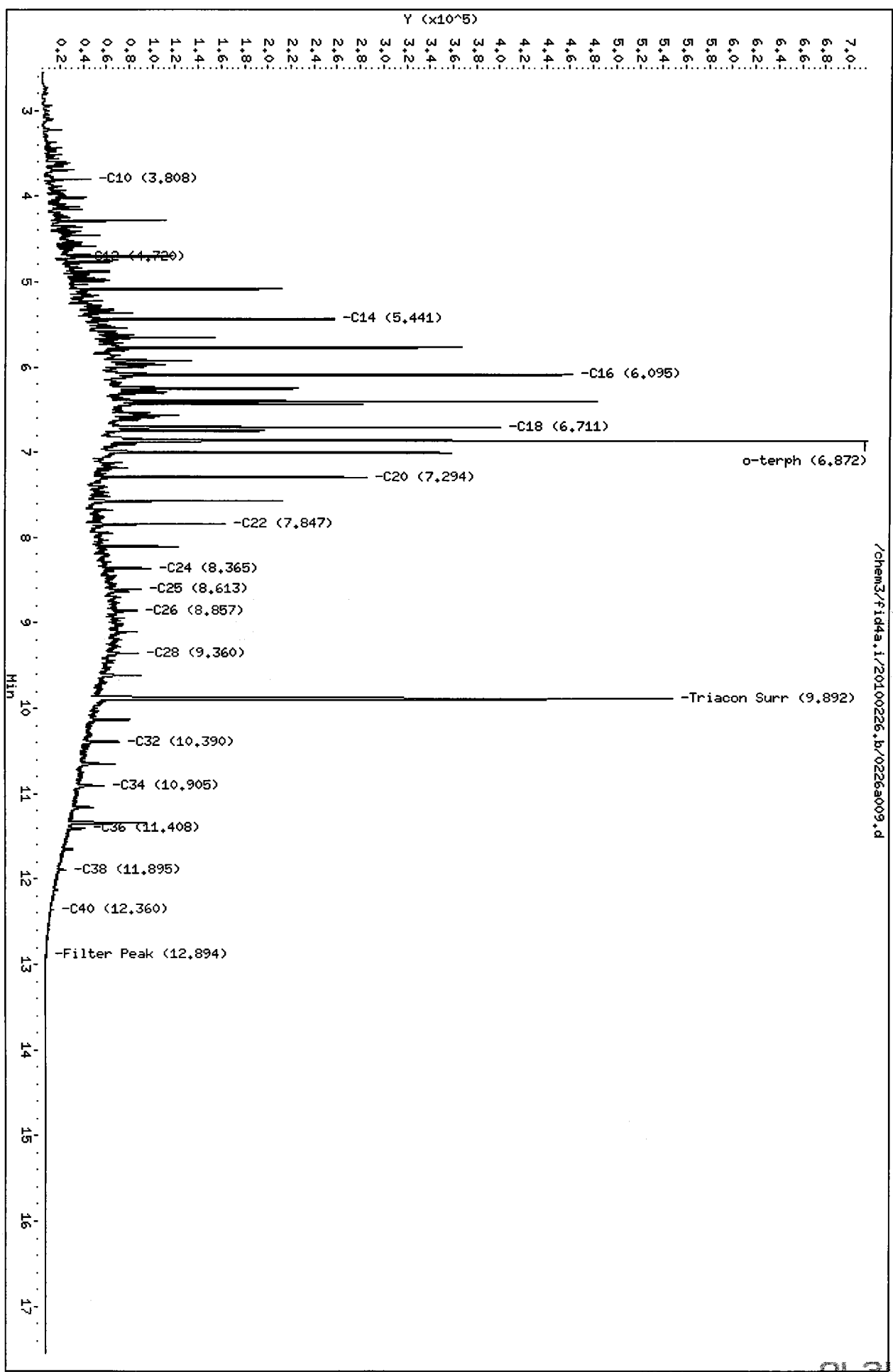
Surrogate	Area	Amount	%Rec
o-Terphenyl	505146	36.6	81.3
Triacontane	561919	38.2	85.0



Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a009.d
Date: 26-FEB-2010 17:59
Client ID: CB31A022310CRAB MSD
Sample Info: QL344MSD
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100226.b/0226a009.d

29700 : 1070

Ms 2/29/10

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid4a.i/20100226.b/0226a013.d
Method: /chem3/fid4a.i/20100226.b/ftphfid4a.m
Instrument: fid4a.i

ARI ID: QL34LCSW1
Client ID: QL34LCSW1
Injection: 26-FEB-2010 19:41

Operator: ar
Report Date: 02/27/2010
Macro: 23-JAN-2010

Dilution Factor: 1

Calibration Dates: Gas:23-JAN-2009 Diesel:22-JAN-2010 M.Oil:21-JAN-2010

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.189	-0.025	351	625	GAS (Tol-C12)	1413032	179
C8	2.546	0.015	1533	2323	DIESEL (C12-C24)	12196123	1073
C10	3.808	0.003	43240	28692	M.OIL (C24-C38)	296821	32
C12	4.720	0.006	34010	29197	AK-102 (C10-C25)	13334992	1056
C14	5.441	-0.008	275998	209805	AK-103 (C25-C36)	207365	30
C16	6.094	-0.002	459235	360347	OR.DIES (C10-C28)	13445570	1047
C18	6.711	0.006	387859	403331	OR.MOIL (C28-C40)	163330	24
C20	7.293	-0.003	281398	233310			
C22	7.845	-0.005	130664	111065			
C24	8.367	0.000	31885	36854			
C25	8.621	0.006	13585	20725			
C26	8.868	0.007	6348	12061			
C28	9.360	-0.002	1670	2301			
C32	10.398	0.004	700	1163			
C34	10.899	-0.009	643	366	CREOSOT (C12-C22)	11728880	4185
Filter Peak	12.885	0.000	1668	861	HYDRAUL (C24-C38)	296821	26
C36	11.367	-0.042	10142	31185			
C38	11.892	-0.002	1079	1152			
C40	12.362	-0.006	1246	1779			
o-terph	6.872	0.001	689398	537723	JET-A (C10-C18)	9511580	1045
Triacon Surr	9.884	-0.008	485961	584078			

Range Times: NW Diesel(4.713 - 8.367) AK102(3.81 - 8.62) Jet A(3.81 - 6.71)
 NW M.Oil(8.37 - 11.89) AK103(8.62 - 11.41) OR Diesel(3.81 - 9.36)

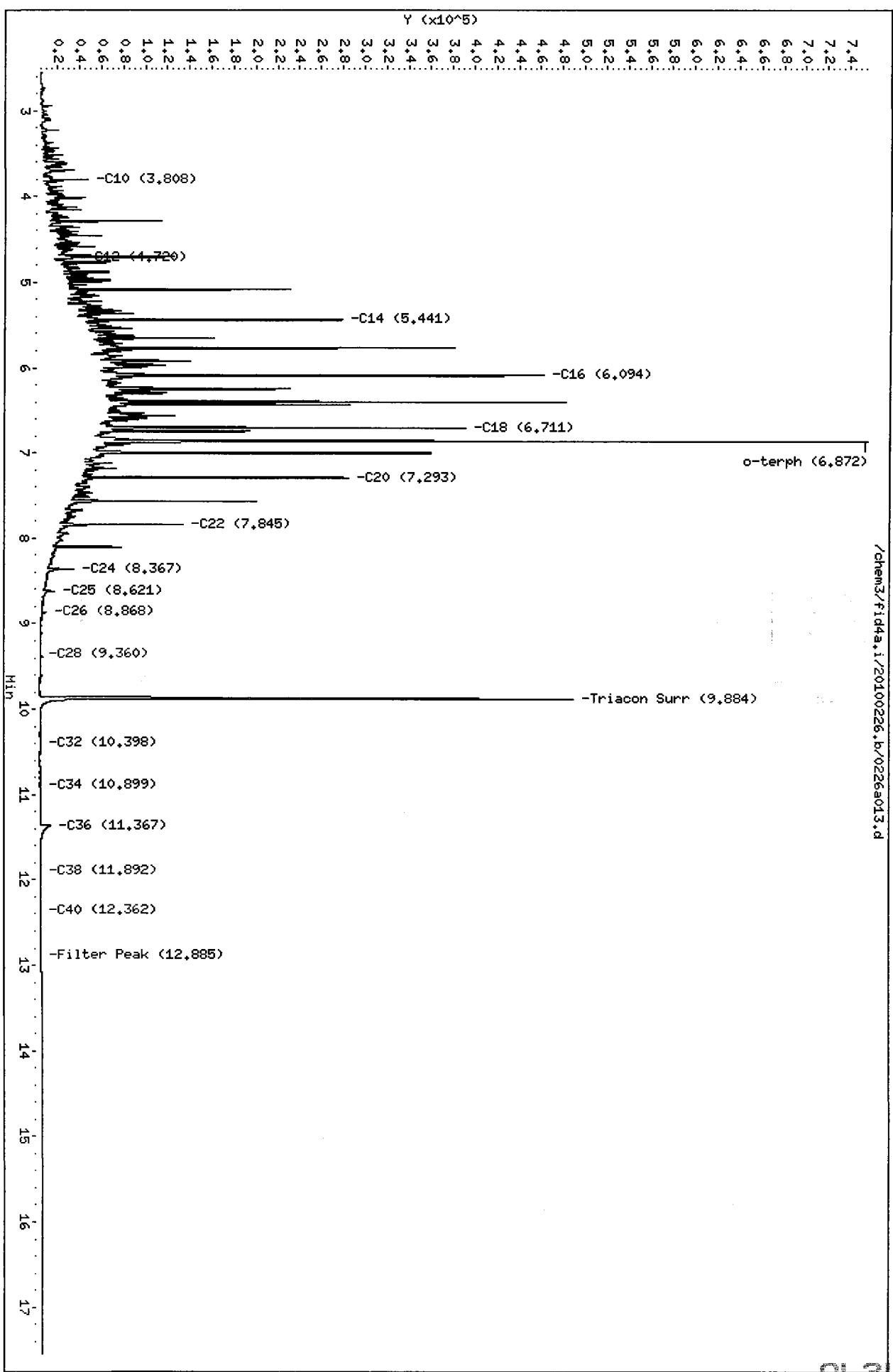


Surrogate	Area	Amount	%Rec
o-Terphenyl	537723	38.9	86.5
Triacontane	584078	39.7	88.3

Analyte	RF	Curve Date
o-Terph Surr	13806.6	22-JAN-2010
Triacon Surr	14695.1	22-JAN-2010
Gas	7904.8	23-JAN-2009
Diesel	11368.0	22-JAN-2010
Motor Oil	9302.5	21-JAN-2010
AK102	12631.0	22-JAN-2010
AK103	6902.1	10-DEC-2009
JetA	9098.1	11-JAN-2010
OR Diesel	12843.0	
OR M.Oil	6945.0	
Bunker C	6595.6	11-JAN-2010
Creosote	2802.7	21-JAN-2010
Hydraulic	11343.7	11-JAN-2010

Data File: /chem3/fid4a.i/20100226.b/0226a013.d
Date: 26-FEB-2010 19:41
Client ID: QL34LCSM4
Sample Info: QL34LCSM4
Column phase: RTX-1

Instrument: fid4a.i
Operator: ar
Column diameter: 2.00



/chem3/fid4a.i/20100226.b/0226a013.d

TPHD Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Floyd-Snider

Project: Lora Lake Apartments, POS-LLA

ARI JOB NO: QL34

prepared
by

Analytical Resources, Inc.



Preparation Test **TPHD**/HCID # 1

In-House (0.25-0.50ppm)

ARI Job No(s) QL34

Batch set up by: ST

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	DryVap Or KD	Turbo Vap 23	Acid/Silica Clean (1:1) Y N	Final Effective Volume	Volume to Lab	Comments
	QL34 MBW	Date 02/25/10	500mL			1mL	1mL	1mL	
	↓ SBW	↓	↓		↓	↓	↓	↓	
	SBW Dup.								
	QL34 A	checked	500mL						
	↓ AMS								
	↓ AMSd								
	↓ B								
	↓ C								
	↓ D								
Analyst/Date: <u>ST 02/25/10</u>					<u>2-25-10</u> <u>2/26/10</u>				

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	01	100µL	7/12/14	<u>ST</u>	W 02/25/10
Spike	11	100µL	9/17/14	<u>AB</u>	W 02/25/10

Extraction Time: | 3:50

SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.

- 4. Extract 2X with 30mL DCM. 5. DryVap or **KD** at 80° 6. TurboVap if KD. 7. Acid/Silica Clean-ups? **Y**/N.
- 8. Vial in DCM. **Archive** **Y**/N

Analytical Resources Inc.: Organics Instrument Log

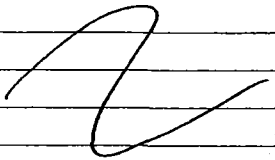
FID-4A Serial No.: US00003247

Date: 11/21/10 Analysis: TPH Analyst: Mo

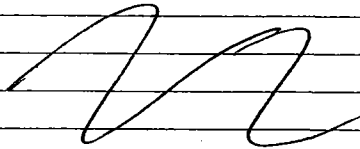
GC Program: TPA Column No: 910208 Column Type: RFX-1

Instrument Tune (.U or .CT.): --- EM Voltage: ---

Calibration File: --- Curve Date: 11/21/10

IS/SS


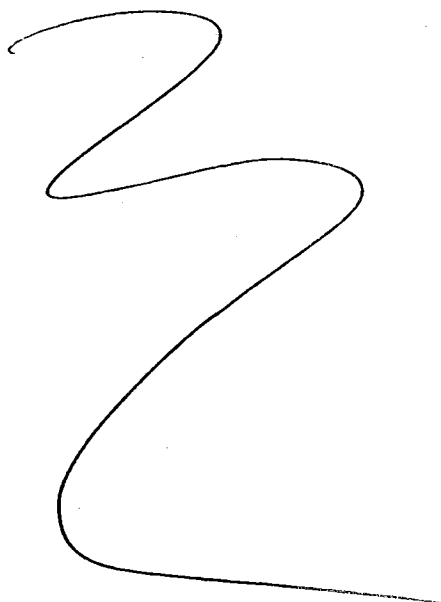
Ical/Ccal
1686-3
1639-1
1687-3
1638-3

LCS/ICV


Time	Filename	LabID	ClientId	DF
1	2004	0121a001.d	DIESEL#1	1
2	2029	0121a002.d	RINSE	1
3	2054	0121a003.d	RINSE	1
4	2119	0121a004.d	RT	1
5	2144	0121a005.d	IB	1
6	2209	0121a006.d	DIESEL 50	1
7	2234	0121a007.d	DIESEL 100	1
8	2259	0121a008.d	DIESEL 250	1
9	2324	0121a009.d	DIESEL 500	1
10	2349	0121a010.d	DIESEL 1000	1
11	0014	0121a011.d	DIESEL 2500	1
12	0040	0121a012.d	DIESEL ICV	1
13	0105	0121a013.d	RINSE	1
14	0130	0121a014.d	MOIL 100 MOIL 100	1
15	0155	0121a015.d	MOIL 250 MOIL 250	1
16	0221	0121a016.d	MOIL 500 MOIL 500	1
17	0245	0121a017.d	MOIL 1000 MOIL 1000	1
18	0310	0121a018.d	MOIL 2500 MOIL 2500	1
19	0335	0121a019.d	MOIL 5000 MOIL 5000	1
20	0401	0121a020.d	MOIL ICV	1
21	0425	0121a021.d	RINSE	1
22	0451	0121a022.d	CREOSOTE 50	1

Time	Filename	LabID	ClientId	DF
23	0516	0121a023.d	CREOSOTE 100	1
24	0541	0121a024.d	CREOSOTE 250	1
25	0606	0121a025.d	CREOSOTE 500	1
26	0631	0121a026.d	CREOSOTE 1000	1
27	0656	0121a027.d	CREOSOTE 2500	1
28	0722	0121a028.d	CREOSOTE 5000	1
29	0747	0121a029.d	RINSE	1
30	0812	0121a030.d	RINSE	1
31	0837	0121a031.d	DIESEL#1	1
32	0903	0121a032.d	MOIL#1	1
33	0928	0121a033.d	HYDRAULIC#1	1
34	0953	0121a034.d	QF80B	50
35	1019	0121a035.d	QF80C	50
36	1044	0121a036.d	QF80D	20
37	1110	0121a037.d	QG28MBW1	1
38	1135	0121a038.d	QG28LCSW1	1
39	1200	0121a039.d	QG28LCSW1	1
40	1226	0121a040.d	QG28A	1
41	1251	0121a041.d	QG28B	1
42	1317	0121a042.d	QG28C	1
43	1342	0121a043.d	QG28D	1
44	1407	0121a044.d	QG28E	1
45	1433	0121a045.d	DIESEL#2	1

Time	Filename	LabID	ClientId	DF
46	1458	0121a046.d	MOIL#2	1
47	1523	0121a047.d	HYDRAULIC#2	1
48	1549	0121a048.d	RINSE	1

ms


Maintenance / Comments

Curved only creosote and motor oil. Diesel had a
valve position mix up.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel, AK102 Client ID: AP4
Curve

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, AK102, o-Terphenyl

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/22/10 Analysis Start: 1/22/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO NA

ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: mo Date: 1/25/10

Reviewer's Signature: [Signature] Date: 1/24/10



GC Analyst Notes / Corrective Action Log

ARI Project ID: 30wt MOil Curve Client ID: ARF

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): 30wt MOil CURVE

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/21/10 Analysis Start: 1/21/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 1/25/10

Reviewer's Signature: [Signature] Date: 1/26/10

Analytical Resources Inc.: Organics Instrument Log

Date: 2/26/10

FID-4A Serial No.: US00003247

GC Program: TPH

Analysis: TPHD

Analyst: MD

Instrument Tune (.U or .CT.): _____

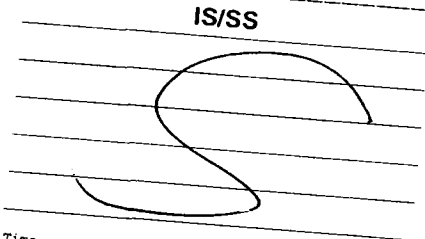
Column No: 910208

Column Type: RTX

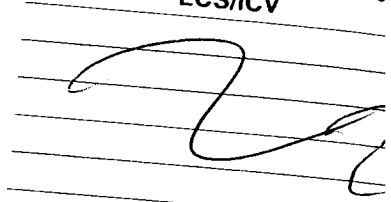
Calibration File: _____

EM Voltage: _____

Curve Date: 1/21/10 - 1/22/10
LCS/ICV



ICal/Ccal
1686-3
1667-1
1687-3
1638-3



Time	Filename	LabID	ClientID	DF
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2	1325	0226a002.d	RT	1
3	1350	0226a003.d	IB	1
4	1416	0226a004.d	DIESEL#1	1
5	1442	0226a005.d	MOIL#1	1
6	1643	0226a006.d	RINSE	1
7	1708	0226a007.d	QL34A	1
8	1734	0226a008.d	QL34AMS	1
9	1759	0226a009.d	QL34AMSD	1
10	1825	0226a010.d	QL34B	1
11	1850	0226a011.d	QL34C	1
12	1916	0226a012.d	QL34D	1
13	1941	0226a013.d	QL34LCSW1	1
14	2007	0226a014.d	QL34MBW1	1
15	2032	0226a015.d	DIESEL#2	1
16	2058	0226a016.d	MOIL#2	1
17	2123	0226a017.d	QL35A	1
18	2149	0226a018.d	QL35B	5
19	2214	0226a019.d	QL35C	1
20	2240	0226a020.d	QL35CMS	1
21	2305	0226a021.d	QL35CMSD	1
22	2331	0226a022.d	QL35D	1

Time	Filename	LabID	ClientID	DF
23	2356	0226a023.d	QL35E	1
24	0022	0226a024.d	QL35F	1
25	0047	0226a025.d	QL35G	5
26	0112	0226a026.d	QL35H	1
27	0138	0226a027.d	QL35I	5
28	0203	0226a028.d	QL35LCSS1	1
29	0229	0226a029.d	QL35MBS1	1
30	0254	0226a030.d	DIESEL#3	1
31	0320	0226a031.d	MOIL#3	1

MD
2/27/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: QL34 Client ID: FLOYD-SMIDER - LORALAKEA

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel, mol. Stph

Instrument: FID-3A FID-3B FID-4A FID-4B FID-7 FID-8
ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/21/10 - 1/24/10 Analysis Start: 2/26/10

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 2/27/10

Reviewer's Signature: [Signature] Date: 3/1/10



March 23, 2010

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

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6030**. This corresponds to your **Lora Lakes Apartments** project under ARI project number **QN21**. Four aqueous samples were received on 3/12/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6030**.

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

If you have any questions regarding project **6030**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Bradley B. Silverbush".

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6030**

Received on: **03/12/2010**

Project Due: **04/05/2010** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6030-001-SA	0	QN21	CB31A031010COMP	EPA 1613 D/F	Aqueous	03/10/2010	06:16 am	03/10/2011
6030-002-SA	0	QN21	CB4857031010COMP	EPA 1613 D/F	Aqueous	03/10/2010	05:51 am	03/10/2011
6030-003-SA	0	QN21	CB1031010COMP	EPA 1613 D/F	Aqueous	03/10/2010	05:45 am	03/10/2011
6030-004-SA	0	QN21	CB101031010COMP	EPA 1613 D/F	Aqueous	03/10/2010	06:51 am	03/10/2011

EPA Method 1613
PCDD/F



FAL ID: 6030-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	ND	1.85		-	0.212				
1,2,3,7,8-PeCDD	ND	1.32		-	0.302				
1,2,3,4,7,8-HxCDD	ND	1.67		-	0.328				
1,2,3,6,7,8-HxCDD	ND	1.90		-	0.381	Total TCDD	ND	1.85	
1,2,3,7,8,9-HxCDD	ND	1.78		-	0.351	Total PeCDD	ND	1.32	
1,2,3,4,6,7,8-HpCDD	ND	3.31		-	0.495	Total HxCDD	ND	1.90	
OCDD	ND	5.34		-	1.02	Total HpCDD	ND	3.31	
2,3,7,8-TCDF	ND	0.726		-	0.112				
1,2,3,7,8-PeCDF	ND	2.38		-	0.219				
2,3,4,7,8-PeCDF	ND	2.38		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.25		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.20		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.24		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.53		-	0.185	Total TCDF	ND	0.726	
1,2,3,4,6,7,8-HpCDF	ND	1.28		-	0.251	Total PeCDF	ND	2.38	
1,2,3,4,7,8,9-HpCDF	ND	1.59		-	0.280	Total HxCDF	ND	1.53	
OCDF	ND	3.40		-	0.451	Total HpCDF	ND	1.59	


Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	76.9	25.0 - 164	
13C-1,2,3,7,8-PeCDD	66.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	65.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	69.5	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	64.5	23.0 - 140	
13C-OCDD	60.9	17.0 - 157	
13C-2,3,7,8-TCDF	77.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	62.1	24.0 - 185	
13C-2,3,4,7,8-PeCDF	63.2	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	64.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	65.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	67.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	63.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	62.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	61.2	26.0 - 138	
13C-OCDF	56.2	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 96.4 35.0 - 197

Analyst: 

Date: 3/22/10

Reviewed By: 

Date: 3/22/10

- 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

EPA Method 1613
PCDD/F



FAL ID: 6030-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-19-2010
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.8	6.70 - 15.8	
1,2,3,7,8-PeCDD	49.3	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	48.8	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	50.0	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	48.6	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	49.3	35.0 - 70.0	
OCDD	104	78.0 - 144	
2,3,7,8-TCDF	9.24	7.50 - 15.8	
1,2,3,7,8-PeCDF	50.0	40.0 - 67.0	
2,3,4,7,8-PeCDF	50.9	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	51.6	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	50.7	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	50.6	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	51.5	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	48.8	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	49.4	39.0 - 69.0	
OCDF	97.4	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	83.7	20.0 - 175	
13C-1,2,3,7,8-PeCDD	62.3	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	62.6	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	65.4	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	61.1	26.0 - 166	
13C-OCDD	58.1	13.0 - 198	
13C-2,3,7,8-TCDF	85.6	22.0 - 152	
13C-1,2,3,7,8-PeCDF	61.2	21.0 - 192	
13C-2,3,4,7,8-PeCDF	62.6	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	59.2	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	63.6	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	64.9	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	57.7	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	61.8	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	58.1	20.0 - 186	
13C-OCDF	53.7	13.0 - 198	

- 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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	111	31.0 - 191	
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Analyst:
Date: 3/22/10

Reviewed By:
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-001-SA
Client ID: CB31A031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.040 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 5.37

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.65		-	0.212				
1,2,3,7,8-PeCDD	ND	1.91		-	0.302				
1,2,3,4,7,8-HxCDD	3.43	-	J	0.343	0.328				
1,2,3,6,7,8-HxCDD	6.62	-	J	0.662	0.381	Total TCDD	ND		1.65
1,2,3,7,8,9-HxCDD	5.82	-	J	0.582	0.351	Total PeCDD	ND		1.91
1,2,3,4,6,7,8-HpCDD	167	-		1.67	0.495	Total HxCDD	46.6		-
OCDD	1390	-		0.417	1.02	Total HpCDD	293		-
2,3,7,8-TCDF	ND	0.613		-	0.112				
1,2,3,7,8-PeCDF	ND	1.16		-	0.219				
2,3,4,7,8-PeCDF	ND	1.19		-	0.232				
1,2,3,4,7,8-HxCDF	6.61	-	J	0.661	0.162				
1,2,3,6,7,8-HxCDF	3.07	-	J	0.307	0.167				
2,3,4,6,7,8-HxCDF	3.07	-	J	0.307	0.167				
1,2,3,7,8,9-HxCDF	ND	1.14		-	0.185	Total TCDF	4.89		- D,M
1,2,3,4,6,7,8-HpCDF	34.6	-		0.346	0.251	Total PeCDF	18.7		- J
1,2,3,4,7,8,9-HpCDF	4.58	-	J	0.0458	0.280	Total HxCDF	69.2		- D,M
OCDF	85.2	-		0.0256	0.451	Total HpCDF	103		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	87.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	87.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	96.2	23.0 - 140	
13C-OCDD	93.9	17.0 - 157	
13C-2,3,7,8-TCDF	92.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	86.0	24.0 - 185	
13C-2,3,4,7,8-PeCDF	84.2	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	84.2	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	79.5	26.0 - 123	
13C-2,3,4,6,7,8-HpCDF	82.0	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	84.7	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	85.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	91.7	26.0 - 138	
13C-OCDF	84.9	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 108 35.0 - 197

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

- 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

EPA Method 1613
PCDD/F



FAL ID: 6030-002-SA
Client ID: CB4857031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.038 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 2.62

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.36		-	0.212				
1,2,3,7,8-PeCDD	ND	1.40		-	0.302				
1,2,3,4,7,8-HxCDD	1.65	-	J	0.165	0.328				
1,2,3,6,7,8-HxCDD	3.79	-	J	0.379	0.381	Total TCDD	ND	1.36	
1,2,3,7,8,9-HxCDD	3.09	-	J	0.309	0.351	Total PeCDD	ND	1.40	
1,2,3,4,6,7,8-HpCDD	76.2	-		0.762	0.495	Total HxCDD	26.8	-	
OCDD	561	-		0.168	1.02	Total HpCDD	137	-	
2,3,7,8-TCDF	ND	0.443		-	0.112				
1,2,3,7,8-PeCDF	ND	0.809		-	0.219				
2,3,4,7,8-PeCDF	ND	0.857		-	0.232				
1,2,3,4,7,8-HxCDF	3.08	-	J	0.308	0.162				
1,2,3,6,7,8-HxCDF	1.56	-	J	0.156	0.167				
2,3,4,6,7,8-HxCDF	1.98	-	J	0.198	0.167				
1,2,3,7,8,9-HxCDF	ND	0.591		-	0.185	Total TCDF	2.83	-	J
1,2,3,4,6,7,8-HpCDF	14.2	-	J	0.142	0.251	Total PeCDF	8.13	-	J
1,2,3,4,7,8,9-HpCDF	1.91	-	J	0.0191	0.280	Total HxCDF	30.1	-	
OCDF	34.8	-	J	0.0104	0.451	Total HpCDF	41.3	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	86.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	90.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	87.2	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	98.8	23.0 - 140	
13C-OCDD	96.6	17.0 - 157	
13C-2,3,7,8-TCDF	91.9	24.0 - 169	
13C-1,2,3,7,8-PeCDF	84.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	81.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	83.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	80.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	85.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	86.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	90.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	93.8	26.0 - 138	
13C-OCDF	88.4	17.0 - 157	

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 107 35.0 - 197

Analyst: [Signature]
Date: 3/22/10

Reviewed By: [Signature]
Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-003-SA
Client ID: CB1031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.027 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 0.298

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.52		-	0.212				
1,2,3,7,8-PeCDD	ND	1.37		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.06		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.48		-	0.381	Total TCDD	ND	1.52	
1,2,3,7,8,9-HxCDD	ND	2.25		-	0.351	Total PeCDD	ND	1.37	
1,2,3,4,6,7,8-HpCDD	24.1	-	J	0.241	0.495	Total HxCDD	9.71	-	J
OCDD	99.8	-		0.0299	1.02	Total HpCDD	53.9	-	
2,3,7,8-TCDF	ND	0.540		-	0.112				
1,2,3,7,8-PeCDF	ND	0.920		-	0.219				
2,3,4,7,8-PeCDF	ND	0.999		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.04		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.04		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.10		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.23		-	0.185	Total TCDF	ND	0.540	
1,2,3,4,6,7,8-HpCDF	2.73	-	J	0.0273	0.251	Total PeCDF	ND	0.999	
1,2,3,4,7,8,9-HpCDF	ND	0.828		-	0.280	Total HxCDF	1.60	-	J
OCDF	ND	3.76		-	0.451	Total HpCDF	5.14	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	82.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	89.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	86.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	88.4	23.0 - 140	
13C-OCDD	90.2	17.0 - 157	
13C-2,3,7,8-TCDF	92.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	83.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	79.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	83.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	80.4	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	81.1	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	81.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	79.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	81.6	26.0 - 138	
13C-OCDF	79.1	17.0 - 157	

Cleanup Surrogate

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

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

Analyst: [Signature]

Date: 3/22/10

Reviewed By: [Signature]

Date: 3/22/10

EPA Method 1613
PCDD/F



FAL ID: 6030-004-SA
Client ID: CB101031010COMP
Matrix: Aqueous
Batch No: X1964

Date Extracted: 03-16-2010
Date Received: 03-12-2010
Amount: 1.033 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-19-2010
2005 WHO TEQ: 2.68

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.75		-	0.212				
1,2,3,7,8-PeCDD	ND	1.64		-	0.302				
1,2,3,4,7,8-HxCDD	1.57	-	J	0.157	0.328				
1,2,3,6,7,8-HxCDD	3.71	-	J	0.371	0.381	Total TCDD	ND	1.75	
1,2,3,7,8,9-HxCDD	3.11	-	J	0.311	0.351	Total PeCDD	ND	1.64	
1,2,3,4,6,7,8-HpCDD	78.8	-		0.788	0.495	Total HxCDD	25.6	-	
OCDD	557	-		0.167	1.02	Total HpCDD	140	-	
2,3,7,8-TCDF	ND	0.534		-	0.112				
1,2,3,7,8-PeCDF	ND	0.942		-	0.219				
2,3,4,7,8-PeCDF	ND	1.05		-	0.232				
1,2,3,4,7,8-HxCDF	3.15	-	J	0.315	0.162				
1,2,3,6,7,8-HxCDF	1.59	-	J	0.159	0.167				
2,3,4,6,7,8-HxCDF	2.08	-	J	0.208	0.167				
1,2,3,7,8,9-HxCDF	ND	0.828		-	0.185	Total TCDF	2.09	-	J
1,2,3,4,6,7,8-HpCDF	16.9	-	J	0.169	0.251	Total PeCDF	5.46	-	J
1,2,3,4,7,8,9-HpCDF	2.14	-	J	0.0214	0.280	Total HxCDF	30.7	-	
OCDF	39.5	-	J	0.0118	0.451	Total HpCDF	48.7	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	86.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	86.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	84.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.8	23.0 - 140	
13C-OCDD	92.4	17.0 - 157	
13C-2,3,7,8-TCDF	93.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	86.5	24.0 - 185	
13C-2,3,4,7,8-PeCDF	82.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	81.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	77.4	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	78.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	82.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	81.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	85.6	26.0 - 138	
13C-OCDF	81.6	17.0 - 157	

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 110 35.0 - 197

Analyst: 

Date: 3/23/10

Reviewed By: 

Date: 3/23/10

SUBCONTRACTOR ANALYSIS REQUEST
 CUSTODY TRANSFER 03/11/10



6030
 OPL

ARI Project: QN21

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

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

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: 05/30/08
 Fax Results (Y/N): email

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

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-5974-QN21A	CB31A031010COMP	03/10/10 06:16 ✓	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-5975-QN21B	CB4857031010COMP	03/10/10 05:51 ✓	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-5976-QN21C	CB1031010COMP	03/10/10 05:45 ✓	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-5977-QN21D	CB101031010COMP	03/10/10 06:51 ✓	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					

L4 & EDD

Carrier	UPS	Airbill	128326950149353610	Date	3/11/10
Relinquished by	[Signature]	Company	ARI	Date	3/11/10
Received by	Tom Chaitin	Company	Frontier Analytical	Date	3/12/10
				Time	10:20 AM

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6030**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	QN21
Date Received:	03/12/2010
Time Received:	10:20 am
Received By:	TC
Logged In By:	KZ
# of Samples Received:	4
Duplicates:	0
Storage Location:	R2

Method of Delivery:	UPS
Tracking Number:	1Z8326950149353610
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	03/10/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	



March 11, 2010

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

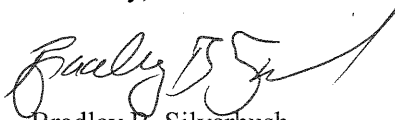
Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6012**. This corresponds to your **Lora Lakes Apartments** project under ARI project number **QM04**. Four aqueous samples were received on 3/4/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6012**.

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

If you have any questions regarding project **6012**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6012**

Received on: **03/04/2010**

Project Due: **03/26/2010** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6012-001-SA	0	QM04	CB31A022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	01:11 am	02/27/2011
6012-002-SA	0	QM04	CB4857022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	01:00 am	02/27/2011
6012-003-SA	0	QM04	CB1022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	01:05 am	02/27/2011
6012-004-SA	0	QM04	CB102022710COMP	EPA 1613 D/F	Aqueous	02/27/2010	02:05 am	02/27/2011

EPA Method 1613
PCDD/F



FAL ID: 6012-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-10-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.80		-	0.212				
1,2,3,7,8-PeCDD	ND	1.62		-	0.302				
1,2,3,4,7,8-HxCDD	ND	1.69		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.02		-	0.381	Total TCDD	ND	1.80	
1,2,3,7,8,9-HxCDD	ND	1.84		-	0.351	Total PeCDD	ND	1.62	
1,2,3,4,6,7,8-HpCDD	ND	3.25		-	0.495	Total HxCDD	ND	2.02	
OCDD	ND	4.91		-	1.02	Total HpCDD	ND	3.25	
2,3,7,8-TCDF	ND	0.763		-	0.112				
1,2,3,7,8-PeCDF	ND	1.18		-	0.219				
2,3,4,7,8-PeCDF	ND	1.24		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.01		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.03		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.05		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.36		-	0.185	Total TCDF	ND	0.763	
1,2,3,4,6,7,8-HpCDF	ND	1.38		-	0.251	Total PeCDF	ND	1.24	
1,2,3,4,7,8,9-HpCDF	ND	1.64		-	0.280	Total HxCDF	ND	1.36	
OCDF	ND	3.25		-	0.451	Total HpCDF	ND	1.64	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	81.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	68.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	74.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	76.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	68.3	23.0 - 140	
13C-OCDD	69.4	17.0 - 157	
13C-2,3,7,8-TCDF	77.1	24.0 - 169	
13C-1,2,3,7,8-PeCDF	63.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	62.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	73.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	75.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	75.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	72.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	69.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	71.7	26.0 - 138	
13C-OCDF	66.1	17.0 - 157	

Cleanup Surrogate

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

Analyst:
Date: 3/11/10

Reviewed By: EN
Date: 3/11/10

- 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

EPA Method 1613
PCDD/F



FAL ID: 6012-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1959


Date Extracted: 03-09-2010
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-10-2010
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.3	6.70 - 15.8	
1,2,3,7,8-PeCDD	49.9	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	50.1	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	49.0	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	48.1	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	49.2	35.0 - 70.0	
OCDD	101	78.0 - 144	
2,3,7,8-TCDF	9.56	7.50 - 15.8	
1,2,3,7,8-PeCDF	50.6	40.0 - 67.0	
2,3,4,7,8-PeCDF	50.2	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	49.8	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	50.7	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	48.9	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	49.8	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	49.3	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	47.1	39.0 - 69.0	
OCDF	97.0	63.0 - 170	
Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	64.5	20.0 - 175	
13C-1,2,3,7,8-PeCDD	49.6	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	53.0	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	55.4	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	54.4	26.0 - 166	
13C-OCDD	57.7	13.0 - 198	
13C-2,3,7,8-TCDF	65.7	22.0 - 152	
13C-1,2,3,7,8-PeCDF	50.3	21.0 - 192	
13C-2,3,4,7,8-PeCDF	51.2	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	51.3	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	52.4	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	52.5	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	51.2	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	52.1	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	55.9	20.0 - 186	
13C-OCDF	55.4	13.0 - 198	
Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	82.0	31.0 - 191	

- 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: 3/11/10

Reviewed By: DN
Date: 3/11/10

EPA Method 1613
PCDD/F



FAL ID: 6012-001-SA
Client ID: CB31A022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.037 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-10-2010
2005 WHO TEQ: 15.4

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.67		-	0.212				
1,2,3,7,8-PeCDD	ND	2.66		-	0.302				
1,2,3,4,7,8-HxCDD	6.12	-	J	0.612	0.328				
1,2,3,6,7,8-HxCDD	15.0	-	J	1.50	0.381	Total TCDD	ND	1.67	
1,2,3,7,8,9-HxCDD	10.3	-	J	1.03	0.351	Total PeCDD	ND	2.66	
1,2,3,4,6,7,8-HpCDD	500	-		5.00	0.495	Total HxCDD	82.9	-	
OCDD	4270	-		1.28	1.02	Total HpCDD	844	-	
2,3,7,8-TCDF	ND	0.678		-	0.112				
1,2,3,7,8-PeCDF	ND	1.18		-	0.219				
2,3,4,7,8-PeCDF	2.71	-	J	0.813	0.232				
1,2,3,4,7,8-HxCDF	21.7	-	J	2.17	0.162				
1,2,3,6,7,8-HxCDF	6.94	-	J	0.694	0.167				
2,3,4,6,7,8-HxCDF	7.26	-	J	0.726	0.167				
1,2,3,7,8,9-HxCDF	2.49	-	J	0.249	0.185	Total TCDF	7.53	-	D,M
1,2,3,4,6,7,8-HpCDF	108	-		1.08	0.251	Total PeCDF	34.4	-	D,M
1,2,3,4,7,8,9-HpCDF	13.0	-	J	0.130	0.280	Total HxCDF	196	-	D,M
OCDF	328	-		0.0984	0.451	Total HpCDF	373	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	77.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	87.9	23.0 - 140	
13C-OCDD	91.2	17.0 - 157	
13C-2,3,7,8-TCDF	87.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	71.6	24.0 - 185	
13C-2,3,4,7,8-PeCDF	74.9	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	80.6	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	80.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	80.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	83.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	82.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	91.0	26.0 - 138	
13C-OCDF	84.6	17.0 - 157	

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

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 105 35.0 - 197

Analyst: [Signature]
Date: 3/11/10

Reviewed By: DAJ
Date: 3/11/10

EPA Method 1613
PCDD/F



FAL ID: 6012-002-SA
Client ID: CB4857022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.035 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-10-2010
2005 WHO TEQ: 10.7

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.47		-	0.212				
1,2,3,7,8-PeCDD	ND	1.99		-	0.302				
1,2,3,4,7,8-HxCDD	4.35	-	J	0.435	0.328				
1,2,3,6,7,8-HxCDD	11.4	-	J	1.14	0.381	Total TCDD	ND	1.47	
1,2,3,7,8,9-HxCDD	8.11	-	J	0.811	0.351	Total PeCDD	ND	1.99	
1,2,3,4,6,7,8-HpCDD	348	-		3.48	0.495	Total HxCDD	60.9	-	
OCDD	3020	-		0.906	1.02	Total HpCDD	591	-	
2,3,7,8-TCDF	ND	0.760		-	0.112				
1,2,3,7,8-PeCDF	ND	2.00		-	0.219				
2,3,4,7,8-PeCDF	ND	1.93		-	0.232				
1,2,3,4,7,8-HxCDF	16.0	-	J	1.60	0.162				
1,2,3,6,7,8-HxCDF	6.46	-	J	0.646	0.167				
2,3,4,6,7,8-HxCDF	5.55	-	J	0.555	0.167				
1,2,3,7,8,9-HxCDF	1.87	-	J	0.187	0.185	Total TCDF	10.1	-	D,M
1,2,3,4,6,7,8-HpCDF	80.6	-		0.806	0.251	Total PeCDF	39.6	-	D,M
1,2,3,4,7,8,9-HpCDF	9.26	-	J	0.0926	0.280	Total HxCDF	173	-	D,M
OCDF	234	-		0.0702	0.451	Total HpCDF	266	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	76.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	80.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	82.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	89.6	23.0 - 140	
13C-OCDD	91.3	17.0 - 157	
13C-2,3,7,8-TCDF	85.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	69.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	72.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	78.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	78.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	78.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	81.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	83.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	90.4	26.0 - 138	
13C-OCDF	85.5	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 92.4 35.0 - 197

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

Analyst: [Signature]
Date: 3/11/10

Reviewed By: [Signature]
Date: 3/11/10

EPA Method 1613
PCDD/F



FAL ID: 6012-003-SA
Client ID: CB1022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.027 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-11-2010
2005 WHO TEQ: 0.220

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.62		-	0.212				
1,2,3,7,8-PeCDD	ND	1.38		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.23		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.75		-	0.381	Total TCDD	ND	1.62	
1,2,3,7,8,9-HxCDD	ND	2.47		-	0.351	Total PeCDD	ND	1.38	
1,2,3,4,6,7,8-HpCDD	15.0	-	J	0.150	0.495	Total HxCDD	ND	2.75	
OCDD	96.7	-		0.0290	1.02	Total HpCDD	29.8	-	
2,3,7,8-TCDF	ND	0.939		-	0.112				
1,2,3,7,8-PeCDF	ND	1.58		-	0.219				
2,3,4,7,8-PeCDF	ND	1.53		-	0.232				
1,2,3,4,7,8-HxCDF	ND	0.888		-	0.162				
1,2,3,6,7,8-HxCDF	ND	0.888		-	0.167				
2,3,4,6,7,8-HxCDF	ND	0.941		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.03		-	0.185	Total TCDF	ND	0.939	
1,2,3,4,6,7,8-HpCDF	3.79	-	J	0.0379	0.251	Total PeCDF	ND	1.58	
1,2,3,4,7,8,9-HpCDF	ND	1.35		-	0.280	Total HxCDF	3.84	-	J
OCDF	9.46	-	J	0.00284	0.451	Total HpCDF	8.47	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	69.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	79.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	77.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	81.8	23.0 - 140	
13C-OCDD	84.7	17.0 - 157	
13C-2,3,7,8-TCDF	85.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	66.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	70.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	77.9	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	76.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	75.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	77.5	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	77.4	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	83.9	26.0 - 138	
13C-OCDF	78.0	17.0 - 157	

Cleanup Surrogate

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

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

Analyst: [Signature]
Date: 3/11/10

Reviewed By: DN
Date: 3/11/10

EPA Method 1613
PCDD/F



FAL ID: 6012-004-SA
Client ID: CB102022710COMP
Matrix: Aqueous
Batch No: X1959

Date Extracted: 03-09-2010
Date Received: 03-04-2010
Amount: 1.007 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-11-2010
2005 WHO TEQ: 0.223

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.27		-	0.212				
1,2,3,7,8-PeCDD	ND	1.33		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.57		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.90		-	0.381	Total TCDD	ND	1.27	
1,2,3,7,8,9-HxCDD	ND	2.71		-	0.351	Total PeCDD	ND	1.33	
1,2,3,4,6,7,8-HpCDD	15.6	-	J	0.156	0.495	Total HxCDD	ND	2.90	
OCDD	98.5	-		0.0296	1.02	Total HpCDD	30.5	-	
2,3,7,8-TCDF	ND	0.800		-	0.112				
1,2,3,7,8-PeCDF	ND	1.36		-	0.219				
2,3,4,7,8-PeCDF	ND	1.36		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.86		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.96		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.20		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.32		-	0.185	Total TCDF	ND	0.800	
1,2,3,4,6,7,8-HpCDF	3.47	-	J	0.0347	0.251	Total PeCDF	ND	1.36	
1,2,3,4,7,8,9-HpCDF	ND	1.53		-	0.280	Total HxCDF	ND	2.32	
OCDF	7.52	-	J	0.00226	0.451	Total HpCDF	7.76	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	78.1	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	89.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	92.4	23.0 - 140	
13C-OCDD	93.0	17.0 - 157	
13C-2,3,7,8-TCDF	96.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	71.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	71.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	88.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	86.4	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	83.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	84.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	86.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	90.8	26.0 - 138	
13C-OCDF	86.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.3 35.0 - 197

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

Analyst: [Signature]
Date: 3/11/10

Reviewed By: [Signature]
Date: 3/11/10

6012
 00c

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

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

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: 03/12/10
 Fax Results (Y/N): email

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

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-5087-QM04A	CB31A022710COMP	02/27/10 01:11	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-5088-QM04B	CB4857022710COMP	02/27/10 01:00	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-5089-QM04C	CB1022710COMP	02/27/10 01:05	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-5090-QM04D	CB102022710COMP	02/27/10 02:05	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					

L4 & EDD

Carrier UPS	Airbill 128326950150235889	Date 3/3/10
Relinquished by <i>[Signature]</i>	Company ARI	Date 3/3/10
Received by <i>[Signature]</i>	Company Frontier	Date 3/4/10
		Time 1530
		Time 1030

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6012**

Client:	Analytical Resources Inc. Sue Dunninghoo
Client Project ID:	QM04
Date Received:	03/04/2010
Time Received:	10:30 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	4
Duplicates:	0
Storage Location:	R2

Method of Delivery:	UPS
Tracking Number:	1Z8326950150235889
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	02/27/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	

Handwritten: FPOA/VERO/AN



April 12, 2010

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

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6069**. This corresponds to your **Lora Lake Apartments** project under ARI project number **QQ20**. Four aqueous samples were received on 3/30/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6069**.

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

If you have any questions regarding project **6069**, please 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
Vice President

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 6069

Received on: 03/30/2010

Project Due: 04/21/2010 Storage: R1

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6069-001-SA	0	QQ20	CB31A032510COMP	EPA 1613 D/F	Aqueous	03/25/2010	09:47 pm	03/25/2011
6069-002-SA	0	QQ20	CB4857032510COMP	EPA 1613 D/F	Aqueous	03/25/2010	10:20 pm	03/25/2011
6069-003-SA	0	QQ20	CB1032510COMP	EPA 1613 D/F	Aqueous	03/25/2010	10:19 pm	03/25/2011
6069-004-SA	0	QQ20	CB101032510COMP	EPA 1613 D/F	Aqueous	03/25/2010	11:20 pm	03/25/2011

EPA Method 1613
PCDD/F



FAL ID: 6069-001-SA
Client ID: CB31A032510COMP
Matrix: Aqueous
Batch No: X1980

Date Extracted: 04-05-2010
Date Received: 03-30-2010
Amount: 1.043 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 04-06-2010
2005 WHO TEQ: 22.3

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.507		-	0.212				
1,2,3,7,8-PeCDD	3.33	-	J	3.33	0.302				
1,2,3,4,7,8-HxCDD	6.14	-	J	0.614	0.328				
1,2,3,6,7,8-HxCDD	17.7	-	J	1.77	0.381	Total TCDD	ND	0.507	
1,2,3,7,8,9-HxCDD	11.7	-	J	1.17	0.351	Total PeCDD	12.4	-	J
1,2,3,4,6,7,8-HpCDD	619	-		6.19	0.495	Total HxCDD	91.1	-	
OCDD	7770	-		2.33	1.02	Total HpCDD	1030	-	
2,3,7,8-TCDF	ND	0.422		-	0.112				
1,2,3,7,8-PeCDF	ND	1.35		-	0.219				
2,3,4,7,8-PeCDF	ND	1.45		-	0.232				
1,2,3,4,7,8-HxCDF	25.0	-		2.50	0.162				
1,2,3,6,7,8-HxCDF	15.0	-	J	1.50	0.167				
2,3,4,6,7,8-HxCDF	8.30	-	J	0.830	0.167				
1,2,3,7,8,9-HxCDF	2.42	-	J	0.242	0.185	Total TCDF	26.2	-	D,M
1,2,3,4,6,7,8-HpCDF	154	-		1.54	0.251	Total PeCDF	90.6	-	D,M
1,2,3,4,7,8,9-HpCDF	14.7	-	J	0.147	0.280	Total HxCDF	386	-	D,M
OCDF	430	-		0.129	0.451	Total HpCDF	494	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.9	25.0 - 164	
13C-1,2,3,7,8-PeCDD	83.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	90.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.5	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	88.7	23.0 - 140	
13C-OCDD	83.8	17.0 - 157	
13C-2,3,7,8-TCDF	94.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	81.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	78.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	81.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	75.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	77.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	80.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	75.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	77.6	26.0 - 138	
13C-OCDF	70.5	17.0 - 157	

Cleanup Surrogate

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

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

Analyst: [Signature]
Date: 4/5/10

Reviewed By: [Signature]
Date: 4/7/10

EPA Method 1613
PCDD/F



FAL ID: 6069-004-SA
Client ID: CB101032510COMP
Matrix: Aqueous
Batch No: X1980

Date Extracted: 04-05-2010
Date Received: 03-30-2010
Amount: 1.036 L

ICal: PCDDFAL3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 04-07-2010
2005 WHO TEQ: 14.0

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.460		-	0.212				
1,2,3,7,8-PeCDD	2.25	-	J	2.25	0.302				
1,2,3,4,7,8-HxCDD	4.09	-	J	0.409	0.328				
1,2,3,6,7,8-HxCDD	11.8	-	J	1.18	0.381	Total TCDD	ND	0.460	
1,2,3,7,8,9-HxCDD	8.04	-	J	0.804	0.351	Total PeCDD	6.39	-	J
1,2,3,4,6,7,8-HpCDD	405	-		4.05	0.495	Total HxCDD	63.4	-	
OCDD	4430	-		1.33	1.02	Total HpCDD	677	-	
2,3,7,8-TCDF	ND	0.412		-	0.112				
1,2,3,7,8-PeCDF	ND	1.27		-	0.219				
2,3,4,7,8-PeCDF	ND	1.30		-	0.232				
1,2,3,4,7,8-HxCDF	15.6	-	J	1.56	0.162				
1,2,3,6,7,8-HxCDF	6.19	-	J	0.619	0.167				
2,3,4,6,7,8-HxCDF	5.41	-	J	0.541	0.167				
1,2,3,7,8,9-HxCDF	1.61	-	J	0.161	0.185	Total TCDF	11.5	-	D,M
1,2,3,4,6,7,8-HpCDF	94.7	-		0.947	0.251	Total PeCDF	39.1	-	D,M
1,2,3,4,7,8,9-HpCDF	9.62	-	J	0.0962	0.280	Total HxCDF	172	-	D,M
OCDF	270	-		0.0810	0.451	Total HpCDF	315	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	75.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.5	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	84.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	85.3	23.0 - 140	
13C-OCDD	78.8	17.0 - 157	
13C-2,3,7,8-TCDF	93.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	76.0	24.0 - 185	
13C-2,3,4,7,8-PeCDF	75.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	82.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	75.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	77.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	78.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	72.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	75.0	26.0 - 138	
13C-OCDF	67.9	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 102 35.0 - 197

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

Analyst:
Date: 4/7/10

Reviewed By:
Date: 4/7/10

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 03/29/10



*6069
000*

ARI Project: QQ20

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

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

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around: 04/09/10
Fax Results (Y/N): email

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

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-8030-QQ20A	CB31A032510COMP	03/25/10 21:47	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-8031-QQ20B	CB4857032510COMP	03/25/10 22:20	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-8032-QQ20C	CB1032510COMP	03/25/10 22:19	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					
10-8033-QQ20D	CB101032510COMP	03/25/10 23:20	Water	1	Dioxin/Furans 1613(Sub)
Special Instructions: None					

*Full Level IV package
and EDD*

Carrier <i>UPS</i>	Airbill <i>128326950151869578</i>	Date <i>3/29/10</i>
Relinquished by <i>[Signature]</i>	Company <i>ARI</i>	Date <i>3/29/10</i>
Received by <i>[Signature]</i>	Company <i>Frontier</i>	Date <i>3/30/10</i>
		Time <i>1600</i>
		Time <i>1020</i>

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6069**

Client:	Analytical Resources Inc. Sue Dunninghoo
Client Project ID:	QQ20
Date Received:	03/30/2010
Time Received:	10:20 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	4
Duplicates:	0
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950151869578
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	03/25/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	



March 25, 2010

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

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6005**. This corresponds to your **Lora Lake Apartments** project under ARI project number **QL58**. Four aqueous samples were received on 3/2/2010 in good condition. As per your chain of custody request, all four samples were placed on hold pending the results from ARI project number **QL95**. On 3/12/2010, you contacted us to request we take all four samples off hold. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6005**.

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

If you have any questions regarding project **6005**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6005**

Received on: **03/02/2010**

Project Due: **04/05/2010** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6005-001-SA	1	QL58	CB31A022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	02:14 pm	02/24/2011
6005-002-SA	1	QL58	CB4857022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	05:38 pm	02/24/2011
6005-003-SA	1	QL58	CB1022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	05:38 am	02/24/2011
6005-004-SA	1	QL58	CB100022410Comp	EPA 1613 D/F	Aqueous	02/24/2010	03:00 pm	02/24/2011

FAL Sample ID

Notes

6005-001-SA 'Sample on hold pending results of QL95 (FAL ID: 6004).' Off Hold 3/12/10. Due Date: 4/5/10
 6005-002-SA 'Sample on hold pending results of QL95 (FAL ID: 6004).' Off Hold 3/12/10. Due Date: 4/5/10
 6005-003-SA 'Sample on hold pending results of QL95 (FAL ID: 6004).' Off Hold 3/12/10. Due Date: 4/5/10
 6005-004-SA 'Sample on hold pending results of QL95 (FAL ID: 6004).' Off Hold 3/12/10. Due Date: 4/5/10

EPA Method 1613
PCDD/F



FAL ID: 6005-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: NA
Amount: 1.000 L

ICal: pcdfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.781		-	0.212				
1,2,3,7,8-PeCDD	ND	1.48		-	0.302				
1,2,3,4,7,8-HxCDD	ND	1.70		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.03		-	0.381	Total TCDD	ND	0.781	
1,2,3,7,8,9-HxCDD	ND	1.85		-	0.351	Total PeCDD	ND	1.48	
1,2,3,4,6,7,8-HpCDD	ND	2.63		-	0.495	Total HxCDD	ND	2.03	
OCDD	ND	4.43		-	1.02	Total HpCDD	ND	2.63	
2,3,7,8-TCDF	ND	0.637		-	0.112				
1,2,3,7,8-PeCDF	ND	1.27		-	0.219				
2,3,4,7,8-PeCDF	ND	1.34		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.52		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.59		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.59		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.92		-	0.185	Total TCDF	ND	0.637	
1,2,3,4,6,7,8-HpCDF	ND	2.09		-	0.251	Total PeCDF	ND	1.34	
1,2,3,4,7,8,9-HpCDF	ND	2.53		-	0.280	Total HxCDF	ND	1.92	
OCDF	ND	3.83		-	0.451	Total HpCDF	ND	2.53	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	83.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	64.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	76.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	75.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	63.3	23.0 - 140	
13C-OCDD	56.1	17.0 - 157	
13C-2,3,7,8-TCDF	80.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	63.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	62.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	71.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	68.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	71.0	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	66.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	59.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	58.0	26.0 - 138	
13C-OCDF	50.1	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 93.5 35.0 - 197

Analyst: [Signature]

Date: 3/25/10

Reviewed By: [Signature]

Date: 3/25/10

- 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

EPA Method 1613
PCDD/F



FAL ID: 6005-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: NA
Amount: 1.000 L

ICal: pcdffal3-11-18-09
GC Column: DB5
Units: ng/ml

Acquired: 03-24-2010
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.6	6.70 - 15.8	
1,2,3,7,8-PeCDD	49.1	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	50.4	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	48.5	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	46.7	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	49.4	35.0 - 70.0	
OCDD	98.8	78.0 - 144	
2,3,7,8-TCDF	9.76	7.50 - 15.8	
1,2,3,7,8-PeCDF	49.3	40.0 - 67.0	
2,3,4,7,8-PeCDF	49.3	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	50.3	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	50.7	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	49.8	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	48.8	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	49.0	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	48.6	39.0 - 69.0	
OCDF	95.7	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	86.2	20.0 - 175	
13C-1,2,3,7,8-PeCDD	64.8	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	73.4	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	73.4	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	59.2	26.0 - 166	
13C-OCDD	55.7	13.0 - 198	
13C-2,3,7,8-TCDF	85.3	22.0 - 152	
13C-1,2,3,7,8-PeCDF	62.7	21.0 - 192	
13C-2,3,4,7,8-PeCDF	63.1	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	68.0	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	65.8	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	70.5	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	64.1	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	56.6	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	54.0	20.0 - 186	
13C-OCDF	50.1	13.0 - 198	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	102	31.0 - 191	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 3/25/10

Reviewed By: [Signature]
Date: 3/25/10

EPA Method 1613
PCDD/F



FAL ID: 6005-001-SA
Client ID: CB31A022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.486 L

ICal: pcdfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 16.3

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	3.52		-	0.212				
1,2,3,7,8-PeCDD	ND	3.61		-	0.302				
1,2,3,4,7,8-HxCDD	7.11	-	J	0.711	0.328				
1,2,3,6,7,8-HxCDD	17.8	-	J	1.78	0.381	Total TCDD	ND	3.52	
1,2,3,7,8,9-HxCDD	12.8	-	J	1.28	0.351	Total PeCDD	ND	5.74	
1,2,3,4,6,7,8-HpCDD	522	-		5.22	0.495	Total HxCDD	99.3	-	
OCDD	4290	-		1.29	1.02	Total HpCDD	898	-	
2,3,7,8-TCDF	ND	1.39		-	0.112				
1,2,3,7,8-PeCDF	ND	2.44		-	0.219				
2,3,4,7,8-PeCDF	ND	2.59		-	0.232				
1,2,3,4,7,8-HxCDF	20.7	-	J	2.07	0.162				
1,2,3,6,7,8-HxCDF	14.6	-	J	1.46	0.167				
2,3,4,6,7,8-HxCDF	9.09	-	J	0.909	0.167				
1,2,3,7,8,9-HxCDF	ND	3.76		-	0.185	Total TCDF	24.3	-	D,M
1,2,3,4,6,7,8-HpCDF	135	-		1.35	0.251	Total PeCDF	86.8	-	D,M
1,2,3,4,7,8,9-HpCDF	13.6	-	J	0.136	0.280	Total HxCDF	315	-	D,M
OCDF	324	-		0.0972	0.451	Total HpCDF	388	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	72.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	81.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	84.2	23.0 - 140	
13C-OCDD	89.7	17.0 - 157	
13C-2,3,7,8-TCDF	81.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	74.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	72.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	73.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	72.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	73.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	73.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	76.9	26.0 - 138	
13C-OCDF	73.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 85.0 35.0 - 197

Analyst: [Signature]
Date: 3/25/10

Reviewed By: [Signature]
Date: 3/25/10

- 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

EPA Method 1613
PCDD/F



FAL ID: 6005-002-SA
Client ID: CB4857022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.479 L

ICal: pccdfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 18.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.88		-	0.212				
1,2,3,7,8-PeCDD	ND	5.73		-	0.302				
1,2,3,4,7,8-HxCDD	8.14	-	J	0.814	0.328				
1,2,3,6,7,8-HxCDD	19.5	-	J	1.95	0.381	Total TCDD	ND	2.88	
1,2,3,7,8,9-HxCDD	15.2	-	J	1.52	0.351	Total PeCDD	ND	5.73	
1,2,3,4,6,7,8-HpCDD	626	-		6.26	0.495	Total HxCDD	111	-	
OCDD	7060	-		2.12	1.02	Total HpCDD	1090	-	
2,3,7,8-TCDF	ND	1.72		-	0.112				
1,2,3,7,8-PeCDF	ND	2.33		-	0.219				
2,3,4,7,8-PeCDF	ND	2.48		-	0.232				
1,2,3,4,7,8-HxCDF	23.8	-	J	2.38	0.162				
1,2,3,6,7,8-HxCDF	13.4	-	J	1.34	0.167				
2,3,4,6,7,8-HxCDF	8.80	-	J	0.880	0.167				
1,2,3,7,8,9-HxCDF	ND	2.79		-	0.185	Total TCDF	28.1	-	D,M
1,2,3,4,6,7,8-HpCDF	140	-		1.40	0.251	Total PeCDF	91.5	-	D,M
1,2,3,4,7,8,9-HpCDF	15.3	-	J	0.153	0.280	Total HxCDF	321	-	D,M
OCDF	346	-		0.104	0.451	Total HpCDF	411	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	80.8	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	97.0	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	100	23.0 - 140	
13C-OCDD	107	17.0 - 157	
13C-2,3,7,8-TCDF	94.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	80.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	85.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	82.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	85.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	87.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	84.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	91.1	26.0 - 138	
13C-OCDF	87.1	17.0 - 157	

Cleanup Surrogate

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

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

Analyst: [Signature]
Date: 3/25/10

Reviewed By: [Signature]
Date: 3/25/10

EPA Method 1613
PCDD/F



FAL ID: 6005-003-SA
Client ID: CB1022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.486 L

ICal: pcdcfal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 0.279

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.74		-	0.212				
1,2,3,7,8-PeCDD	ND	2.31		-	0.302				
1,2,3,4,7,8-HxCDD	ND	3.55		-	0.328				
1,2,3,6,7,8-HxCDD	ND	4.14		-	0.381	Total TCDD	ND	2.74	
1,2,3,7,8,9-HxCDD	ND	3.81		-	0.351	Total PeCDD	ND	2.31	
1,2,3,4,6,7,8-HpCDD	18.7	-	J	0.187	0.495	Total HxCDD	ND	4.14	
OCDD	132	-		0.0396	1.02	Total HpCDD	37.5	-	J
2,3,7,8-TCDF	ND	1.22		-	0.112				
1,2,3,7,8-PeCDF	ND	2.24		-	0.219				
2,3,4,7,8-PeCDF	ND	2.30		-	0.232				
1,2,3,4,7,8-HxCDF	ND	3.70		-	0.162				
1,2,3,6,7,8-HxCDF	ND	3.81		-	0.167				
2,3,4,6,7,8-HxCDF	ND	3.85		-	0.167				
1,2,3,7,8,9-HxCDF	ND	4.16		-	0.185	Total TCDF	ND	1.22	
1,2,3,4,6,7,8-HpCDF	4.88	-	J	0.0488	0.251	Total PeCDF	ND	2.30	
1,2,3,4,7,8,9-HpCDF	ND	1.83		-	0.280	Total HxCDF	ND	4.16	
OCDF	10.7	-	J	0.00321	0.451	Total HpCDF	10.2	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.5	25.0 - 164	
13C-1,2,3,7,8-PeCDD	79.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	92.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	91.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.5	23.0 - 140	
13C-OCDD	95.3	17.0 - 157	
13C-2,3,7,8-TCDF	90.5	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.1	24.0 - 185	
13C-2,3,4,7,8-PeCDF	79.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	79.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	77.5	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	78.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	79.2	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	80.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	82.2	26.0 - 138	
13C-OCDF	79.6	17.0 - 157	

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Cleanup Surrogate

37Cl-2,3,7,8-TCDD 99.5 35.0 - 197

Analyst: [Signature]
Date: 3/25/10

Reviewed By: [Signature]
Date: 3/25/10

EPA Method 1613
PCDD/F



FAL ID: 6005-004-SA
Client ID: CB100022410Comp
Matrix: Aqueous
Batch No: X1968

Date Extracted: 03-22-2010
Date Received: 03-02-2010
Amount: 0.483 L

ICal: pcdffal3-11-18-09
GC Column: DB5
Units: pg/L

Acquired: 03-24-2010
2005 WHO TEQ: 18.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	3.14		-	0.212				
1,2,3,7,8-PeCDD	ND	4.03		-	0.302				
1,2,3,4,7,8-HxCDD	7.93	-	J	0.793	0.328				
1,2,3,6,7,8-HxCDD	20.5	-	J	2.05	0.381	Total TCDD	ND	3.14	
1,2,3,7,8,9-HxCDD	14.8	-	J	1.48	0.351	Total PeCDD	ND	4.03	
1,2,3,4,6,7,8-HpCDD	615	-		6.15	0.495	Total HxCDD	114	-	
OCDD	5430	-		1.63	1.02	Total HpCDD	1040	-	
2,3,7,8-TCDF	ND	1.68		-	0.112				
1,2,3,7,8-PeCDF	ND	3.31		-	0.219				
2,3,4,7,8-PeCDF	ND	3.51		-	0.232				
1,2,3,4,7,8-HxCDF	23.8	-	J	2.38	0.162				
1,2,3,6,7,8-HxCDF	16.1	-	J	1.61	0.167				
2,3,4,6,7,8-HxCDF	10.0	-	J	1.00	0.167				
1,2,3,7,8,9-HxCDF	ND	2.82		-	0.185	Total TCDF	28.9	-	D,M
1,2,3,4,6,7,8-HpCDF	154	-		1.54	0.251	Total PeCDF	96.0	-	D,M
1,2,3,4,7,8,9-HpCDF	15.8	-	J	0.158	0.280	Total HxCDF	365	-	D,M
OCDF	376	-		0.113	0.451	Total HpCDF	456	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	80.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	68.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	76.9	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	75.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	82.6	23.0 - 140	
13C-OCDD	84.9	17.0 - 157	
13C-2,3,7,8-TCDF	79.8	24.0 - 169	
13C-1,2,3,7,8-PeCDF	71.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	69.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	70.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	66.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	69.9	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	71.7	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	69.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	73.7	26.0 - 138	
13C-OCDF	70.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.3 35.0 - 197

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- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 3/25/10

Reviewed By: [Signature]
Date: 3/25/10

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

*6005
 OOC*

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

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: 03/09/10
 Fax Results (Y/N): **email**

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

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
10-4796-QL58A	CB31A022410Comp	02/24/10 14:14	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-4797-QL58B	CB4857022410Comp	02/24/10 17:38	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-4798-QL58C	CB1022410Comp	02/24/10 05:38	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-4799-QL58D	CB100022410Comp	02/24/10 15:00	Water		Dioxin/Furans 1613 (Sub)
Special Instructions: None					

EDD & Full Package

Please hold samples, analysis pending on results of QL95
 Samples taken off hold 3/12/10. Sue to KATHY.

Carrier	UPS	Airbill	128326950190869347	Date	3/1/10
Relinquished by	<i>[Signature]</i>	Company	ARI	Date	3/1/10
				Time	1600
Received by	Kathy Zep	Company	Frontier	Date	3-2-10
				Time	9:55

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6005**

Client:	Analytical Resources Inc. Sue Dunninghoo
Client Project ID:	QL58
Date Received:	03/02/2010
Time Received:	09:55 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	4
Duplicates:	4
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950150869347
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	02/24/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	

